



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 11:02 AM UTC

PDB ID : 4V6X / pdb_00004v6x
EMDB ID : EMD-5592
Title : Structure of the human 80S ribosome
Authors : Anger, A.M.; Armache, J.-P.; Berninghausen, O.; Habeck, M.; Subklewe, M.;
Wilson, D.N.; Beckmann, R.
Deposited on : 2013-02-27
Resolution : 5.00 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

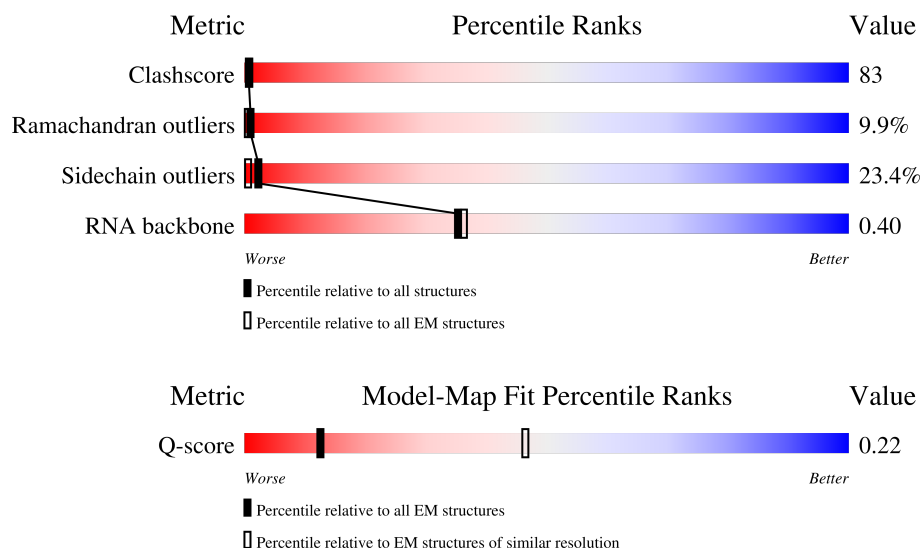
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	1057 (4.50 - 5.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	Az	858	
2	Ag	317	
3	AU	119	

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Mol	Chain	Length	Quality of chain
4	AK	165	
5	AO	151	
6	AX	143	
7	AM	132	
8	AS	152	
9	Ad	56	
10	AN	151	
11	AL	158	
12	AR	135	
13	AP	145	
14	AT	145	
15	AB	264	
16	AA	295	
17	AV	83	
18	AY	133	
19	AZ	125	
20	Aa	115	
21	Ab	84	
22	Ac	69	
23	AD	243	
24	Ae	59	
25	Af	80	
26	AJ	194	
27	AE	263	
28	AC	293	

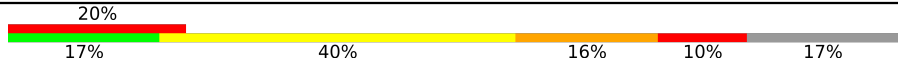
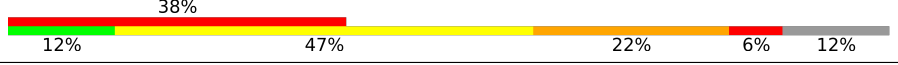
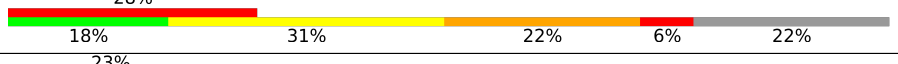
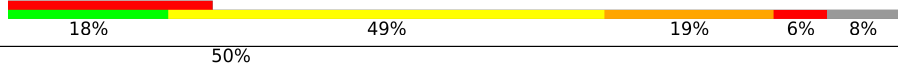
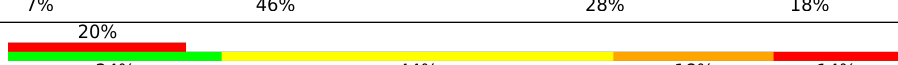
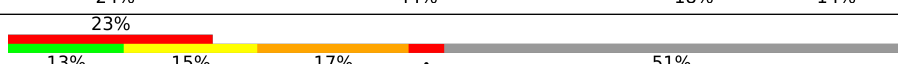
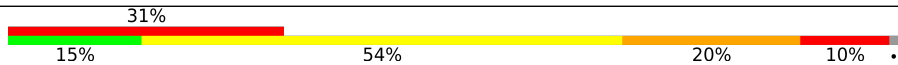
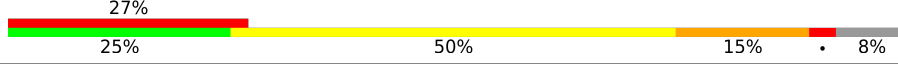
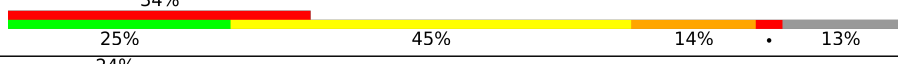
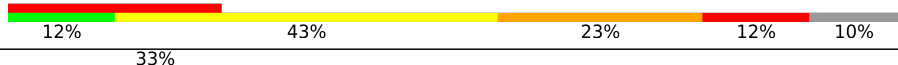
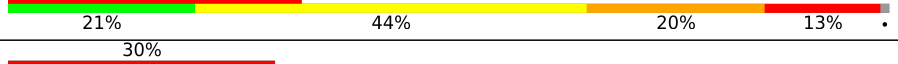
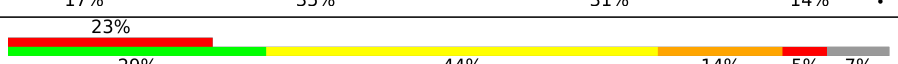
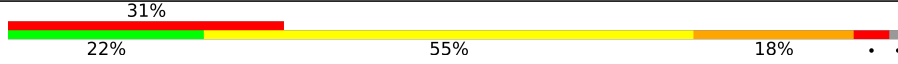
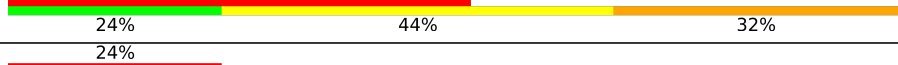
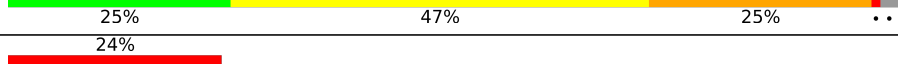
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Mol	Chain	Length	Quality of chain
29	AG	249	
30	AF	204	
31	AH	194	
32	AW	130	
33	AI	208	
34	AQ	146	
35	Ah	408	
36	B2	1869	
37	BC	75	
38	Cz	217	
39	Cq	317	
40	CK	165	
41	CO	203	
42	CL	211	
43	CV	140	
44	CM	215	
45	Ca	148	
46	CN	204	
47	CI	214	
48	CD	297	
49	CQ	188	
50	CR	196	
51	CA	257	
52	CS	176	
53	CT	160	

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Mol	Chain	Length	Quality of chain
54	CP	184	
55	CU	128	
56	CX	156	
57	CY	145	
58	CW	157	
59	CZ	136	
60	Cr	137	
61	Ch	123	
62	Cb	159	
63	CB	403	
64	CF	248	
65	Cc	115	
66	Cd	125	
67	Ce	135	
68	Cf	110	
69	Cg	117	
70	Ci	105	
71	Cj	97	
72	Ck	70	
73	Cl	51	
74	CC	427	
75	Cm	52	
76	Cn	25	
77	Cp	92	
78	Co	106	

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Mol	Chain	Length	Quality of chain
79	CJ	178	
80	CH	192	
81	CE	288	
82	CG	266	
83	Cs	114	
83	Ct	114	
84	Cu	115	
84	Cv	115	
85	A5	5070	
86	A7	121	
87	A8	157	

2 Entry composition [i](#)

There are 87 unique types of molecules in this entry. The entry contains 237685 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Elongation factor 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	Az	856	Total	C	N	O	S	0	0
			6673	4234	1148	1247	44		

- Molecule 2 is a protein called Guanine nucleotide-binding protein subunit beta-2-like 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	Ag	313	Total	C	N	O	S	0	0
			2436	1535	424	465	12		

- Molecule 3 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	AU	104	Total	C	N	O	S	0	0
			822	514	156	148	4		

- Molecule 4 is a protein called 40S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	AK	98	Total	C	N	O	S	0	0
			827	539	148	134	6		

- Molecule 5 is a protein called 40S ribosomal protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	AO	136	Total	C	N	O	S	0	0
			1016	621	199	190	6		

- Molecule 6 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AX	142	Total	C	N	O	S	0	0
			1106	698	220	184	4		

- Molecule 7 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AM	124	Total	C	N	O	S	0	0
			960	600	171	181	8		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AM	52	GLN	LEU	conflict	UNP P25398
AM	69	LEU	CYS	conflict	UNP P25398
AM	99	ASN	LYS	conflict	UNP P25398

- Molecule 8 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AS	137	Total	C	N	O	S	0	0
			1139	714	231	193	1		

- Molecule 9 is a protein called 40S ribosomal protein S29.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	Ad	53	Total	C	N	O	S	0	0
			445	278	90	72	5		

- Molecule 10 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AN	150	Total	C	N	O	S	0	0
			1208	773	229	205	1		

- Molecule 11 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AL	158	Total	C	N	O	S	0	0
			1296	827	241	221	7		

- Molecule 12 is a protein called 40S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AR	126	Total	C	N	O	S	0	0
			1019	639	188	187	5		

- Molecule 13 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AP	127	Total	C	N	O	S	0	0
			1062	674	202	179	7		

- Molecule 14 is a protein called 40S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AT	141	Total	C	N	O	S	0	0
			1101	690	212	196	3		

- Molecule 15 is a protein called 40S ribosomal protein S3a.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AB	215	Total	C	N	O	S	0	0
			1747	1110	313	310	14		

- Molecule 16 is a protein called 40S ribosomal protein SA.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AA	208	Total	C	N	O	S	0	0
			1642	1045	289	300	8		

- Molecule 17 is a protein called 40S ribosomal protein S21.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AV	82	Total	C	N	O	S	0	0
			625	384	116	120	5		

- Molecule 18 is a protein called 40S ribosomal protein S24.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AY	126	Total	C	N	O	S	0	0
			1023	646	200	172	5		

- Molecule 19 is a protein called 40S ribosomal protein S25.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AZ	75	Total	C	N	O	S	0	0
			598	382	111	104	1		

- Molecule 20 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	Aa	107	Total	C	N	O	S	0	0
			847	528	176	138	5		

- Molecule 21 is a protein called 40S ribosomal protein S27.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	Ab	84	Total	C	N	O	S	0	0
			659	413	122	116	8		

- Molecule 22 is a protein called 40S ribosomal protein S28.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	Ac	64	Total	C	N	O	S	0	0
			506	308	102	94	2		

- Molecule 23 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AD	227	Total	C	N	O	S	0	0
			1765	1125	317	315	8		

- Molecule 24 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Ae	59	Total	C	N	O	S	0	0
			468	290	102	75	1		

- Molecule 25 is a protein called 40S ribosomal protein S27a.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	Af	71	Total	C	N	O	S	0	0
			581	367	109	98	7		

- Molecule 26 is a protein called 40S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AJ	182	Total	C	N	O	S	0	0
			1498	952	300	244	2		

- Molecule 27 is a protein called 40S ribosomal protein S4, X isoform.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	AE	263	Total	C	N	O	S	0	0
			2084	1329	387	359	9		

- Molecule 28 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	AC	226	Total	C	N	O	S	0	0
			1751	1130	301	310	10		

- Molecule 29 is a protein called 40S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	AG	237	Total	C	N	O	S	0	0
			1923	1200	387	329	7		

- Molecule 30 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	AF	191	Total	C	N	O	S	0	0
			1509	943	286	273	7		

- Molecule 31 is a protein called 40S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AH	190	Total	C	N	O	S	0	0
			1530	975	281	273	1		

- Molecule 32 is a protein called 40S ribosomal protein S15a.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AW	129	Total	C	N	O	S	0	0
			1034	659	193	176	6		

- Molecule 33 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	AI	206	Total	C	N	O	S	0	0
			1686	1058	332	291	5		

- Molecule 34 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	AQ	141	Total	C	N	O	S	0	0
			1124	715	212	194	3		

- Molecule 35 is a protein called Plasminogen activator inhibitor 1 RNA-binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	Ah	73	Total	C	N	O	S	0	0
			566	340	116	108	2		

- Molecule 36 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	B2	1861	Total	C	N	O	P	0	0
			38377	17073	6745	12699	1860		

- Molecule 37 is a RNA chain called E-tRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BC	75	Total	C	N	O	P	0	0
			1604	717	298	515	74		

- Molecule 38 is a protein called 60S ribosomal protein L10a.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	Cz	217	Total	C	N	O	S	0	0
			1741	1113	312	307	9		

- Molecule 39 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	Cq	280	Total	C	N	O	S	0	0
			2138	1367	366	395	10		

- Molecule 40 is a protein called 60S ribosomal protein L12.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	CK	163	Total	C	N	O	S	0	0
			1238	773	230	230	5		

- Molecule 41 is a protein called 60S ribosomal protein L13a.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	CO	202	Total	C	N	O	S	0	0
			1655	1066	322	262	5		

- Molecule 42 is a protein called 60S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	CL	210	Total	C	N	O	S	0	0
			1701	1064	352	281	4		

- Molecule 43 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	CV	133	Total	C	N	O	S	0	0
			989	623	186	175	5		

- Molecule 44 is a protein called 60S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	CM	139	Total	C	N	O	S	0	0
			1139	730	218	183	8		

- Molecule 45 is a protein called 60S ribosomal protein L27a.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	Ca	147	Total	C	N	O	S	0	0
			1162	736	237	186	3		

- Molecule 46 is a protein called 60S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	CN	203	Total	C	N	O	S	0	0
			1701	1072	359	266	4		

- Molecule 47 is a protein called 60S ribosomal protein L10-like.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	CI	213	Total	C	N	O	S	0	0
			1711	1082	329	285	15		

- Molecule 48 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	CD	289	Total	C	N	O	S	0	0
			2353	1483	429	427	14		

- Molecule 49 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	CQ	188	Total	C	N	O	S	0	0
			1521	949	315	251	6		

- Molecule 50 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	CR	189	Total	C	N	O	S	0	0
			1580	979	338	253	10		

- Molecule 51 is a protein called 60S ribosomal protein L8.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	CA	255	Total	C	N	O	S	0	0
			1957	1225	399	327	6		

- Molecule 52 is a protein called 60S ribosomal protein L18a.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	CS	175	Total	C	N	O	S	0	0
			1453	925	283	235	10		

- Molecule 53 is a protein called 60S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	CT	159	Total	C	N	O	S	0	0
			1298	823	252	217	6		

- Molecule 54 is a protein called 60S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	CP	152	Total	C	N	O	S	0	0
			1233	771	240	213	9		

- Molecule 55 is a protein called 60S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	CU	112	Total	C	N	O	S	0	0
			921	583	159	177	2		

- Molecule 56 is a protein called 60S ribosomal protein L23a.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	CX	121	Total	C	N	O	S	0	0
			994	636	187	170	1		

- Molecule 57 is a protein called 60S ribosomal protein L26.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	CY	133	Total	C	N	O	S	0	0
			1107	695	225	185	2		

- Molecule 58 is a protein called 60S ribosomal protein L24.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	CW	124	Total	C	N	O	S	0	0
			1015	634	207	170	4		

- Molecule 59 is a protein called 60S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	CZ	135	Total	C	N	O	S	0	0
			1107	714	208	182	3		

- Molecule 60 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	Cr	137	Total	C	N	O	S	0	0
			1104	682	231	185	6		

- Molecule 61 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	Ch	123	Total	C	N	O	S	0	0
			1023	646	206	169	2		

- Molecule 62 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	Cb	78	Total	C	N	O	S	0	0
			635	395	135	102	3		

- Molecule 63 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	CB	397	Total	C	N	O	S	0	0
			3202	2039	602	547	14		

- Molecule 64 is a protein called 60S ribosomal protein L7.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	CF	229	Total	C	N	O	S	0	0
			1910	1226	370	305	9		

- Molecule 65 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	Cc	100	Total	C	N	O	S	0	0
			776	492	136	141	7		

- Molecule 66 is a protein called 60S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	Cd	113	Total	C	N	O	S	0	0
			931	586	181	162	2		

- Molecule 67 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	Ce	133	Total	C	N	O	S	0	0
			1096	691	224	175	6		

- Molecule 68 is a protein called 60S ribosomal protein L35a.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	Cf	109	Total	C	N	O	S	0	0
			876	555	174	144	3		

- Molecule 69 is a protein called 60S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	Cg	114	Total	C	N	O	S	0	0
			906	566	187	147	6		

- Molecule 70 is a protein called 60S ribosomal protein L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	Ci	103	Total	C	N	O	S	0	0
			840	526	178	130	6		

- Molecule 71 is a protein called 60S ribosomal protein L37.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	Cj	90	Total	C	N	O	S	0	0
			733	451	162	115	5		

- Molecule 72 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	Ck	69	Total	C	N	O	S	0	0
			569	366	103	99	1		

- Molecule 73 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	Cl	50	Total	C	N	O	S	0	0
			444	281	98	64	1		

- Molecule 74 is a protein called 60S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	CC	368	Total	C	N	O	S	0	0
			2925	1840	583	489	13		

- Molecule 75 is a protein called 60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	Cm	52	Total	C	N	O	S	0	0
			429	266	90	67	6		

- Molecule 76 is a protein called 60S ribosomal protein L41.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	Cn	25	Total	C	N	O	S	0	0
			240	145	64	28	3		

- Molecule 77 is a protein called 60S ribosomal protein L37a.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	Cp	90	Total	C	N	O	S	0	0
			703	442	135	119	7		

- Molecule 78 is a protein called 60S ribosomal protein L36a.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	Co	105	Total	C	N	O	S	0	0
			863	542	175	140	6		

- Molecule 79 is a protein called 60S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	CJ	168	Total	C	N	O	S	0	0
			1349	853	251	239	6		

- Molecule 80 is a protein called 60S ribosomal protein L9.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	CH	191	Total	C	N	O	S	0	0
			1526	960	285	275	6		

- Molecule 81 is a protein called 60S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	CE	262	Total	C	N	O	S	0	0
			2113	1357	403	349	4		

- Molecule 82 is a protein called 60S ribosomal protein L7a.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	CG	246	Total	C	N	O	S	0	0
			1973	1256	379	334	4		

- Molecule 83 is a protein called 60S acidic ribosomal protein P1.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	Cs	57	Total	C	N	O	S	0	0
			426	277	68	79	2		
83	Ct	57	Total	C	N	O	S	0	0
			426	277	68	79	2		

- Molecule 84 is a protein called 60S acidic ribosomal protein P2.

Mol	Chain	Residues	Atoms					AltConf	Trace
84	Cu	56	Total	C	N	O	S	0	0
			419	261	71	86	1		
84	Cv	56	Total	C	N	O	S	0	0
			419	261	71	86	1		

- Molecule 85 is a RNA chain called 28S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
85	A5	4298	Total	C	N	O	P	0	0
			84946	37522	14767	28360	4297		

- Molecule 86 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
86	A7	121	Total	C	N	O	P	0	0
			2578	1150	458	850	120		

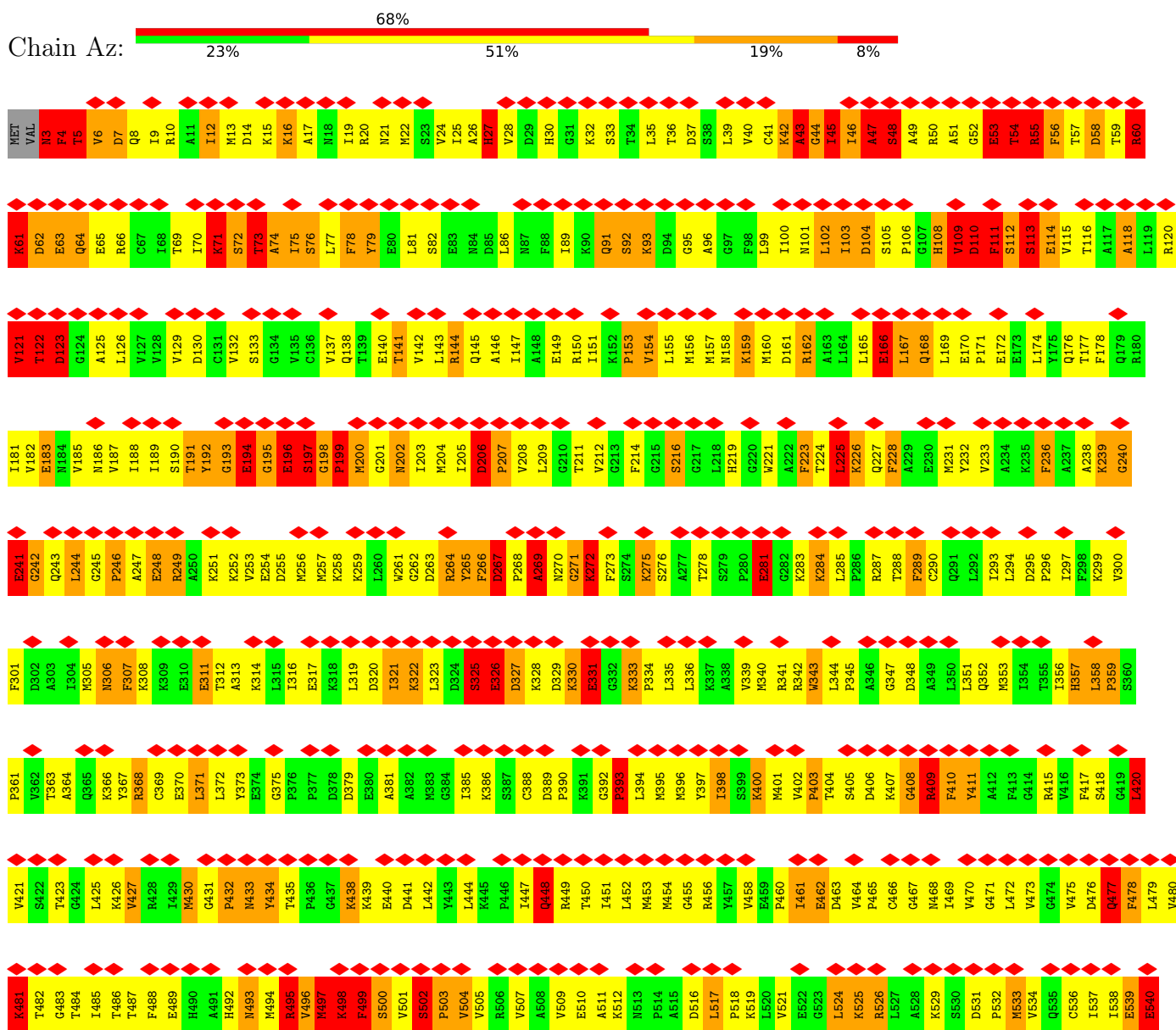
- Molecule 87 is a RNA chain called 5.8S ribosomal RNA.

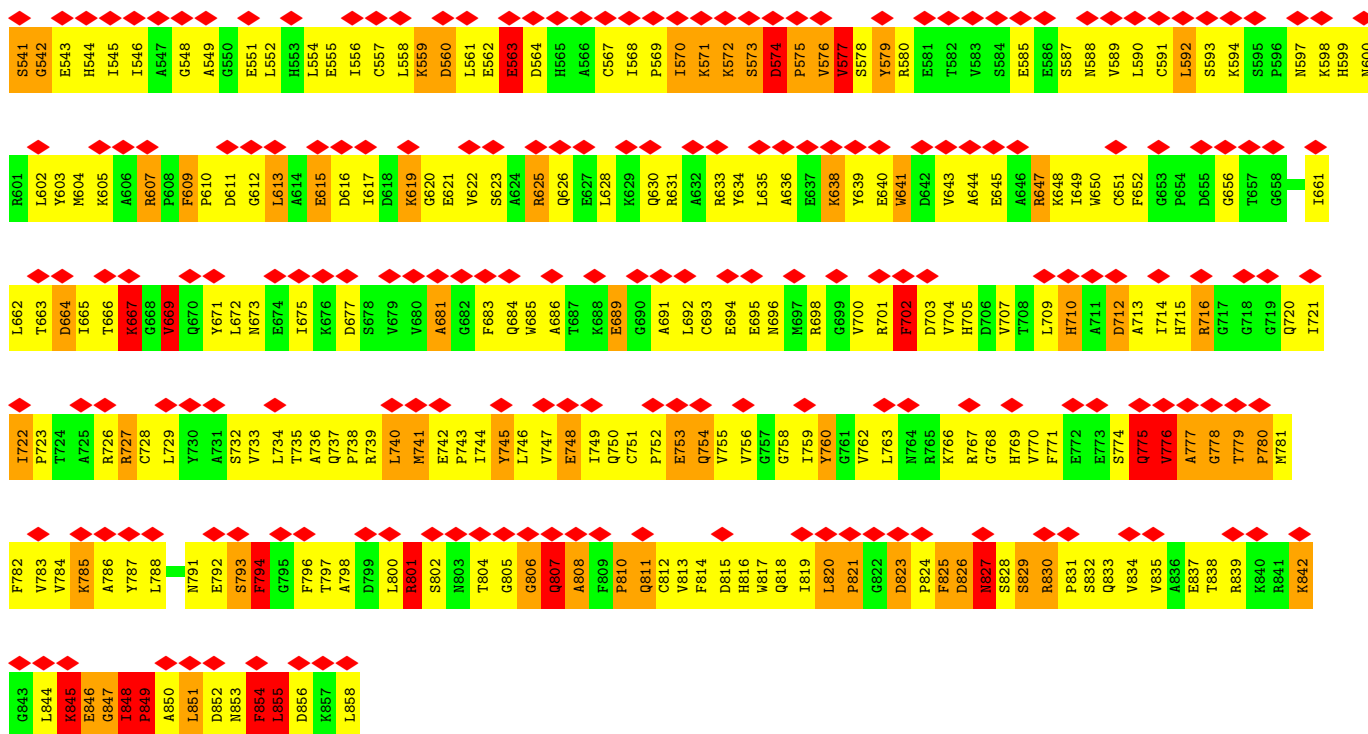
Mol	Chain	Residues	Atoms					AltConf	Trace
87	A8	157	Total	C	N	O	P	0	0
			3334	1489	587	1102	156		

3 Residue-property plots

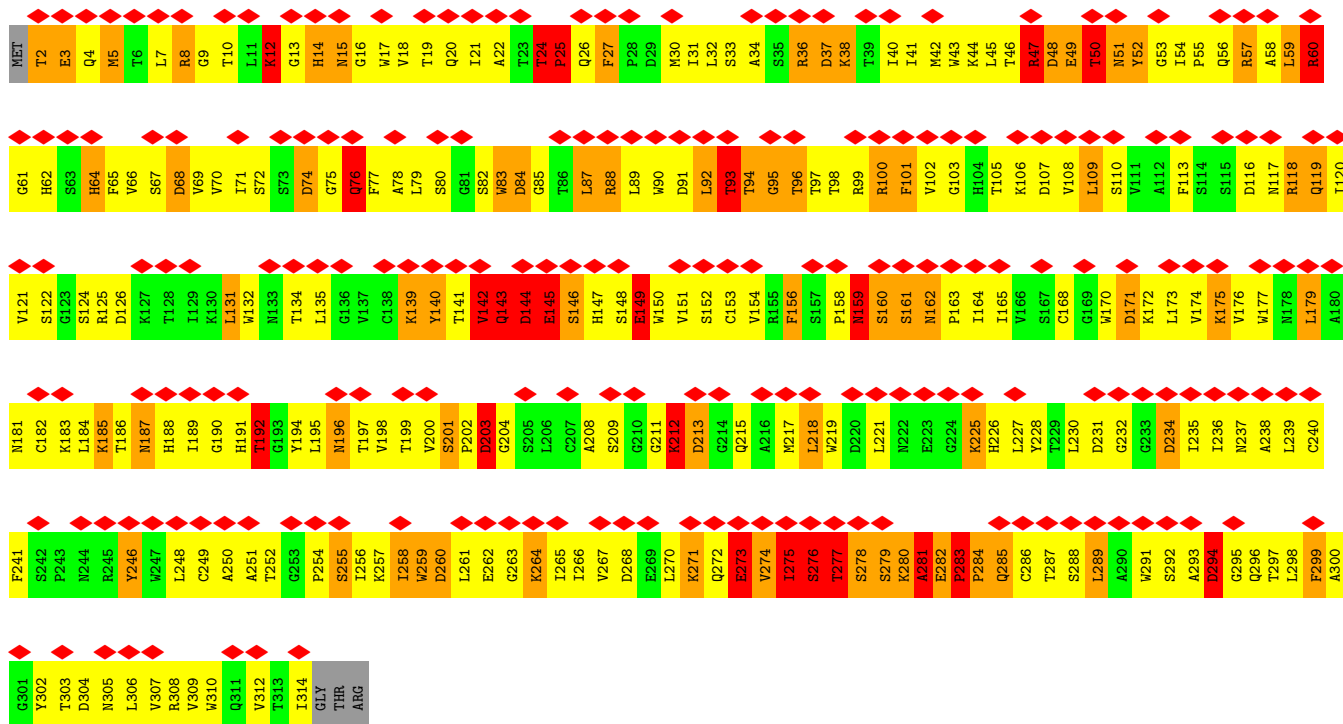
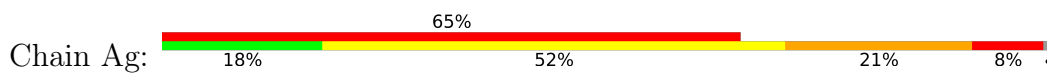
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Elongation factor 2

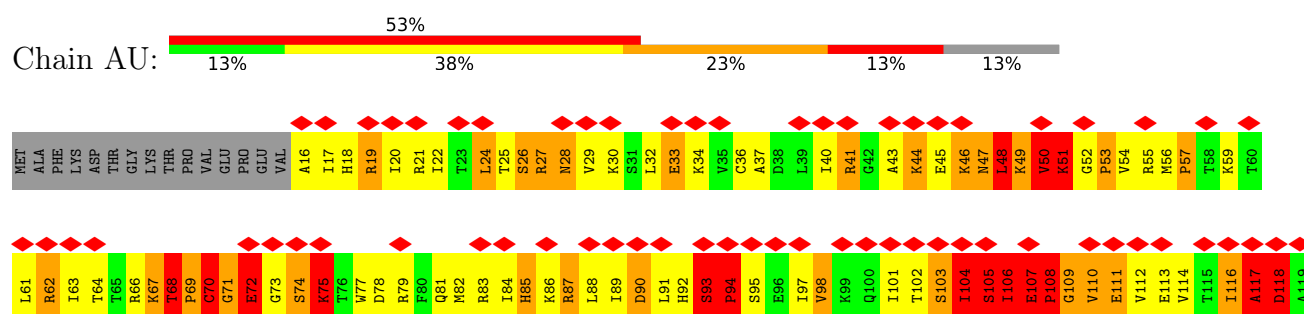




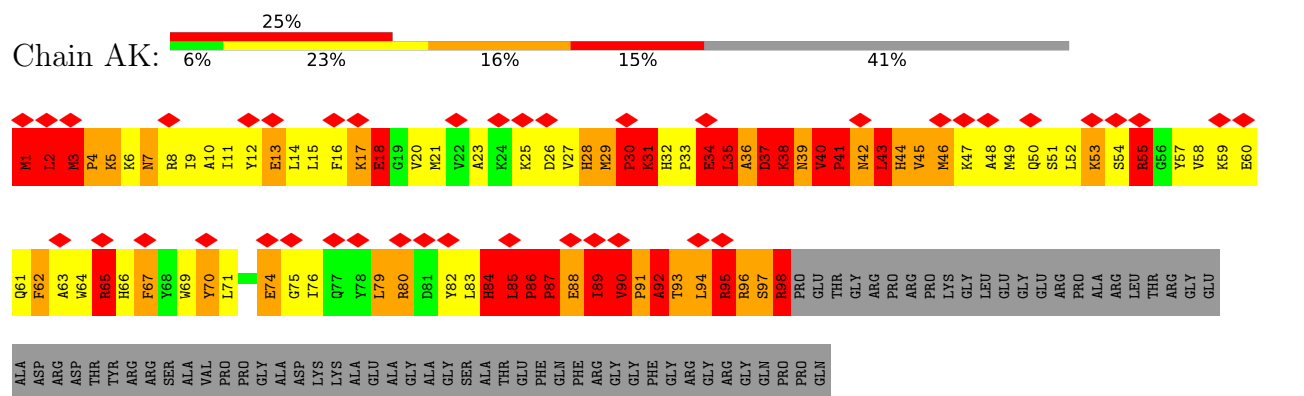
• Molecule 2: Guanine nucleotide-binding protein subunit beta-2-like 1



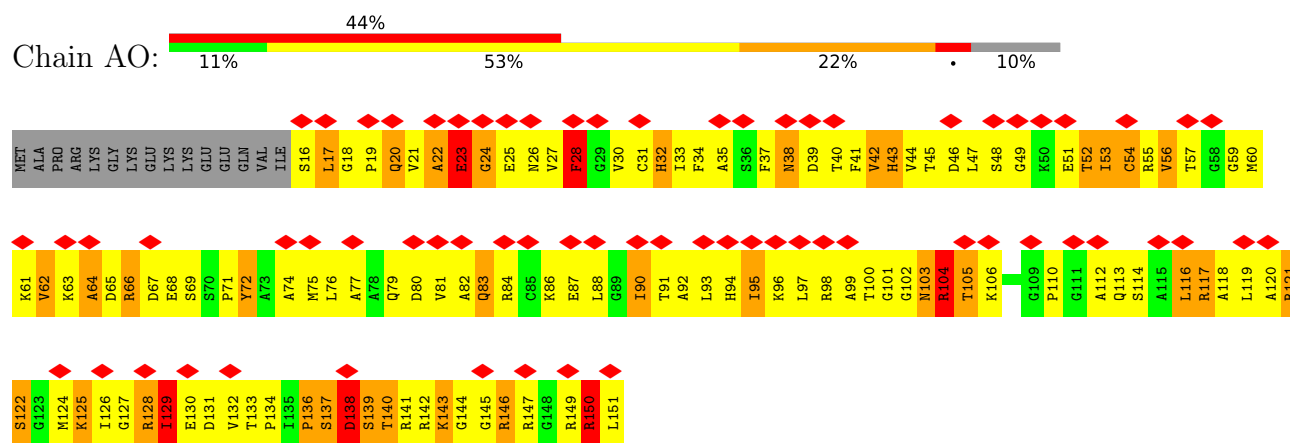
• Molecule 3: 40S ribosomal protein S20



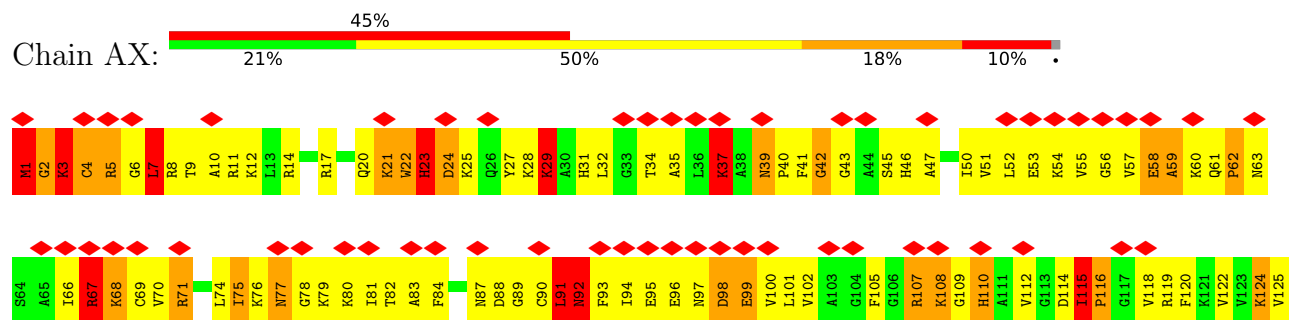
• Molecule 4: 40S ribosomal protein S10

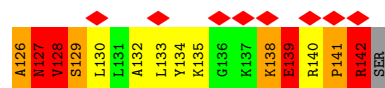


• Molecule 5: 40S ribosomal protein S14

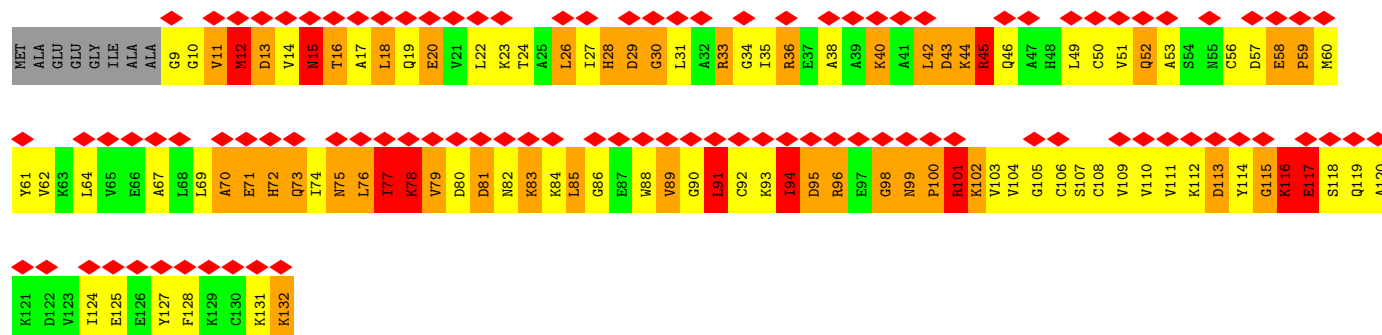
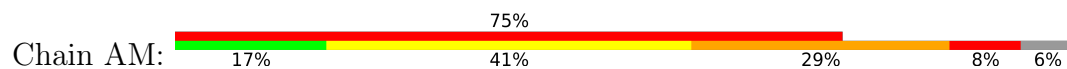


• Molecule 6: 40S ribosomal protein S23

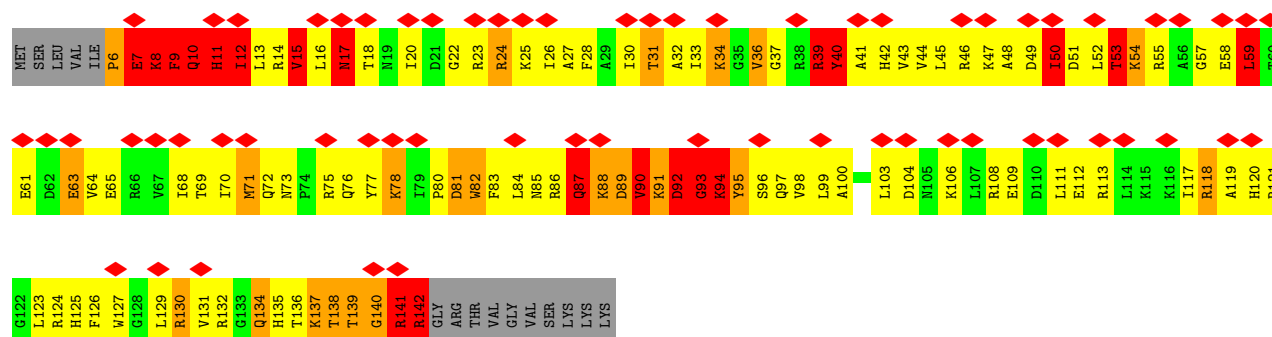
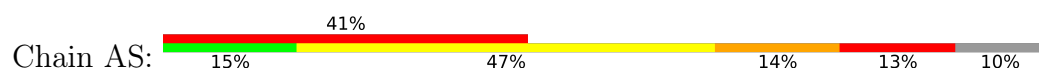




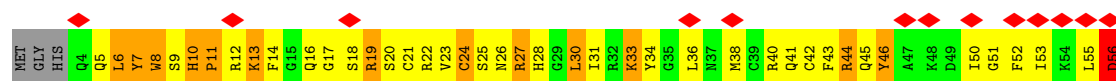
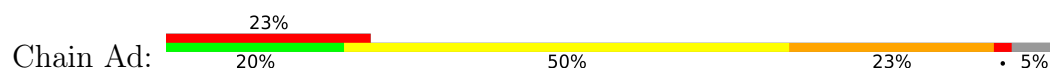
• Molecule 7: 40S ribosomal protein S12



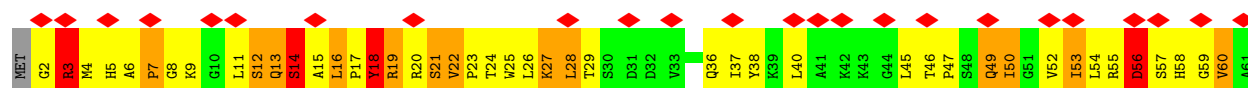
• Molecule 8: 40S ribosomal protein S18

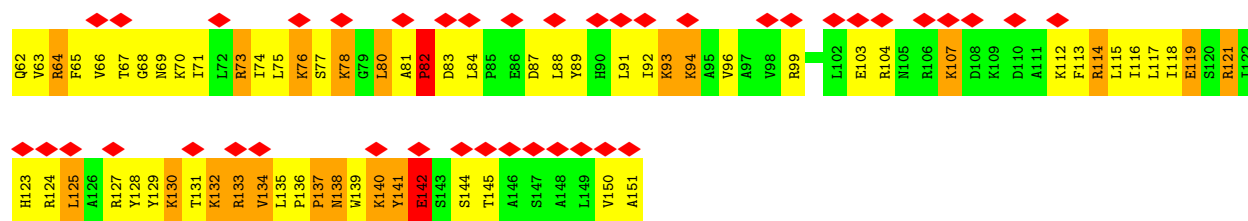


• Molecule 9: 40S ribosomal protein S29

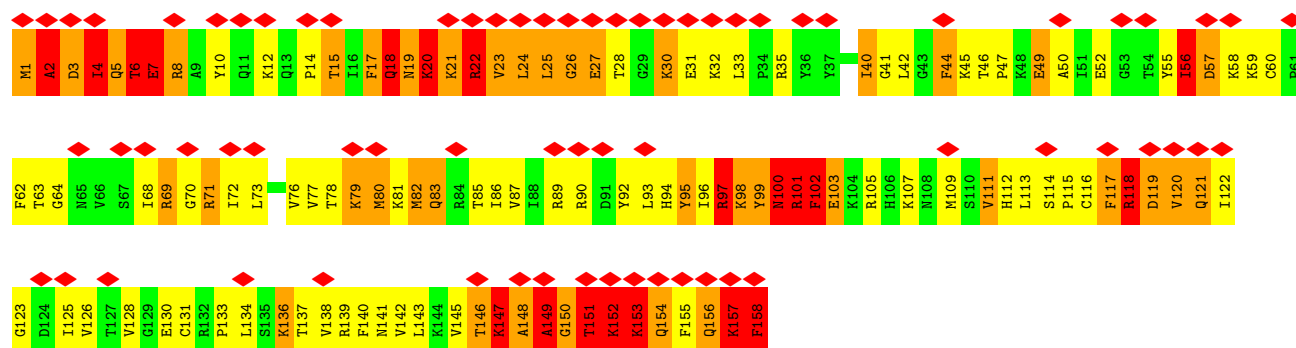
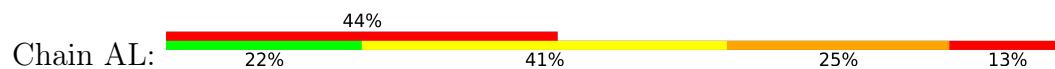


• Molecule 10: 40S ribosomal protein S13

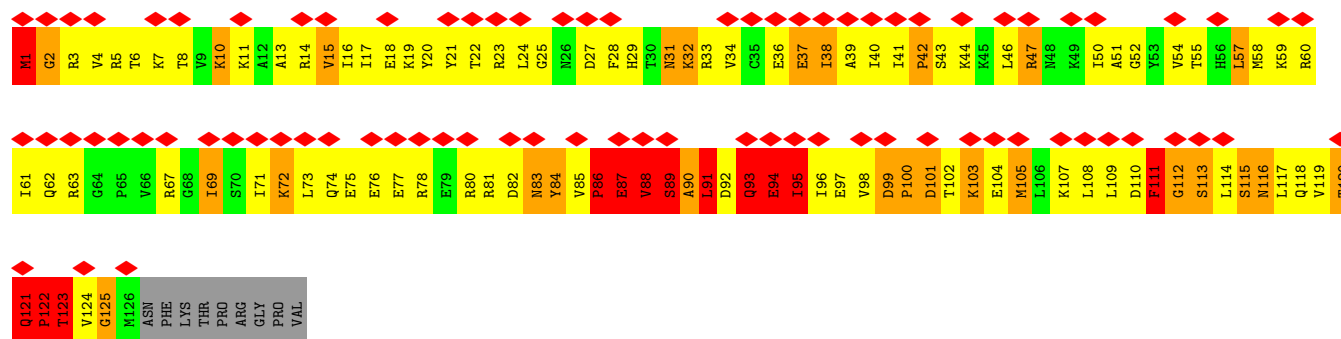
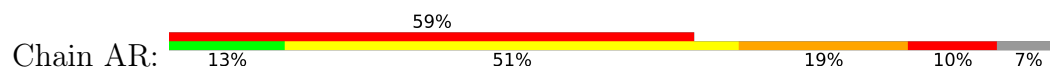




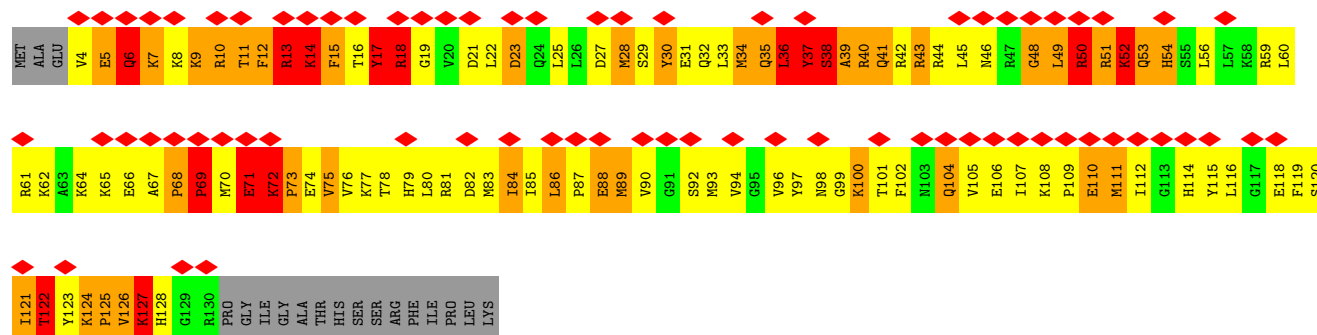
• Molecule 11: 40S ribosomal protein S11



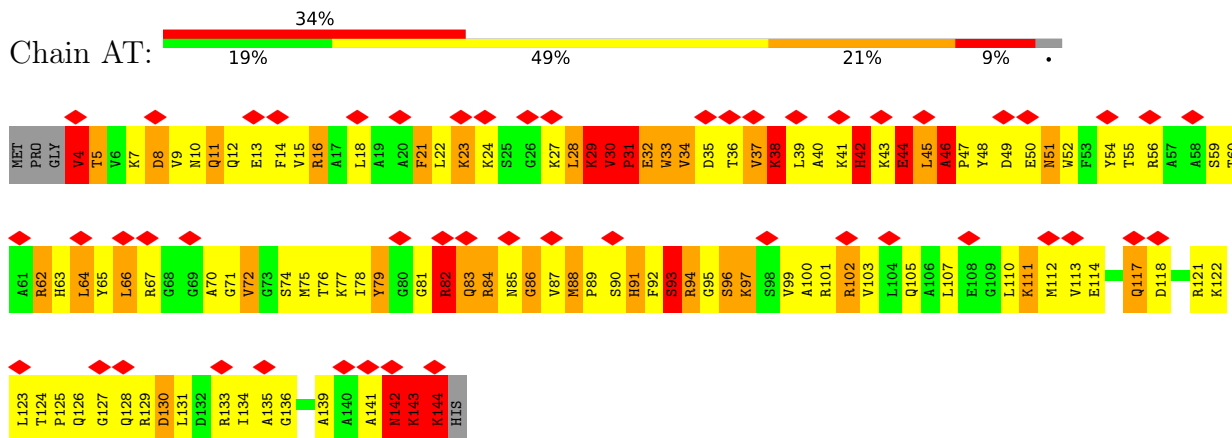
• Molecule 12: 40S ribosomal protein S17



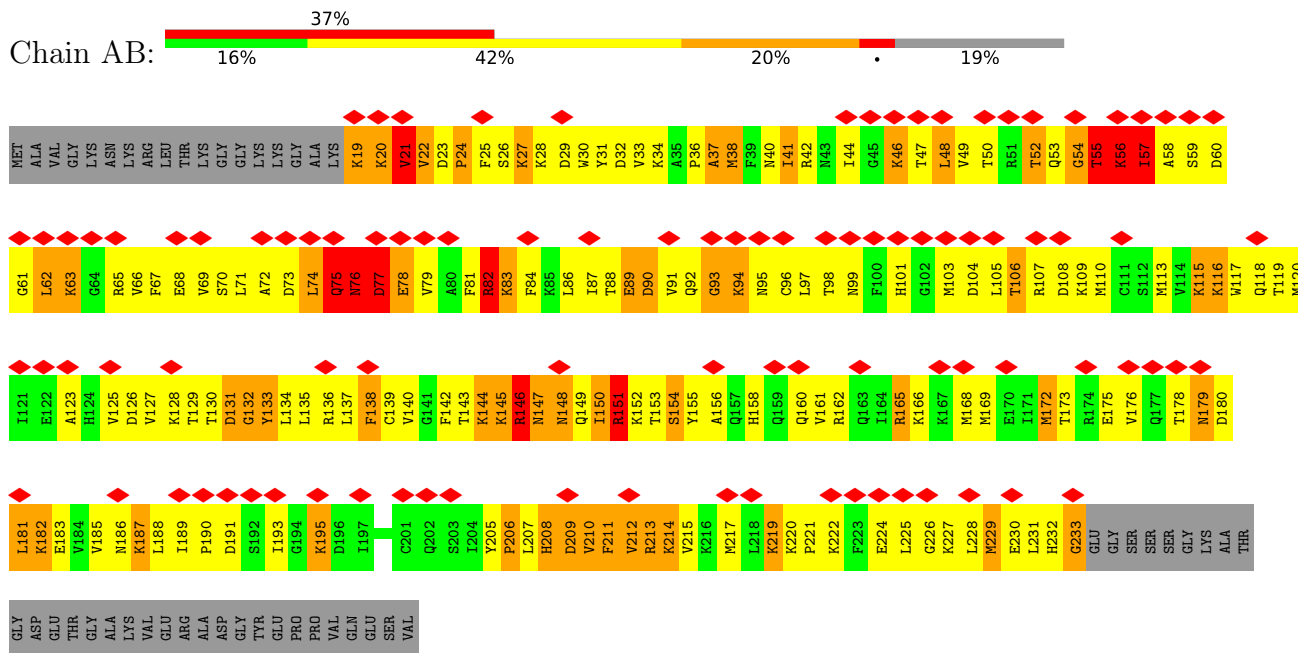
• Molecule 13: 40S ribosomal protein S15



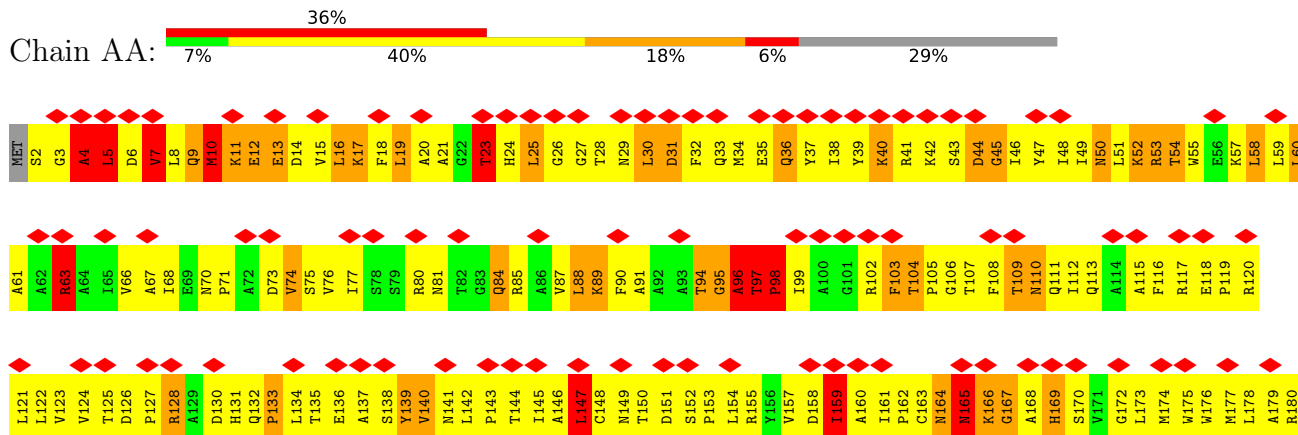
Chain AT:

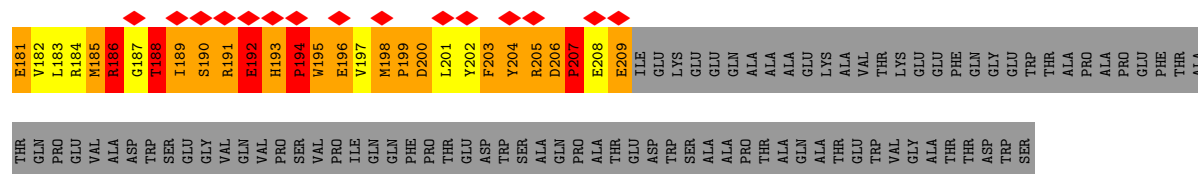


Chain AB:

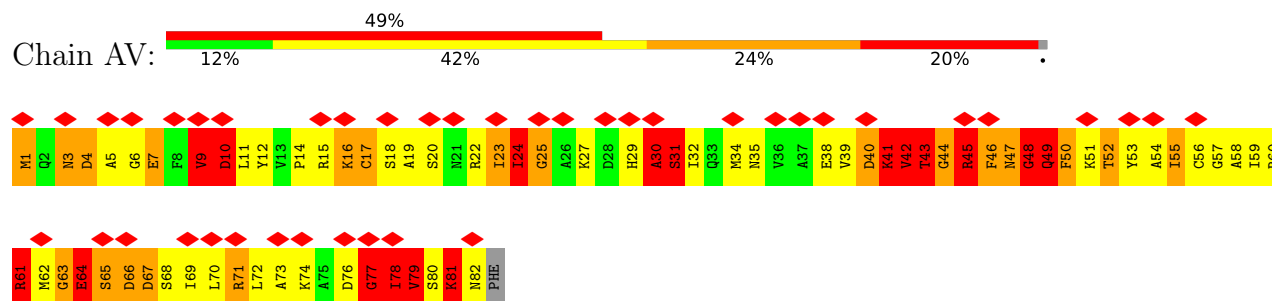


Chain AA:

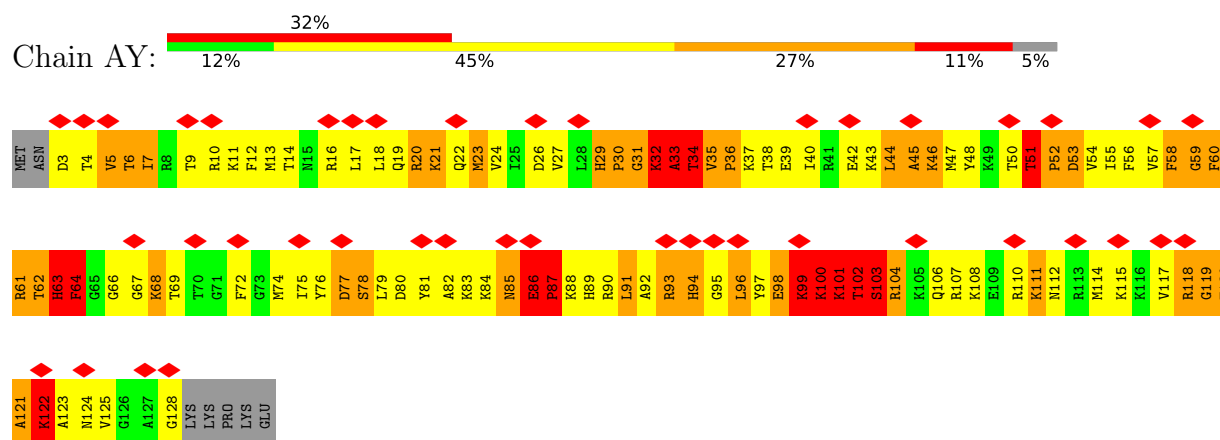




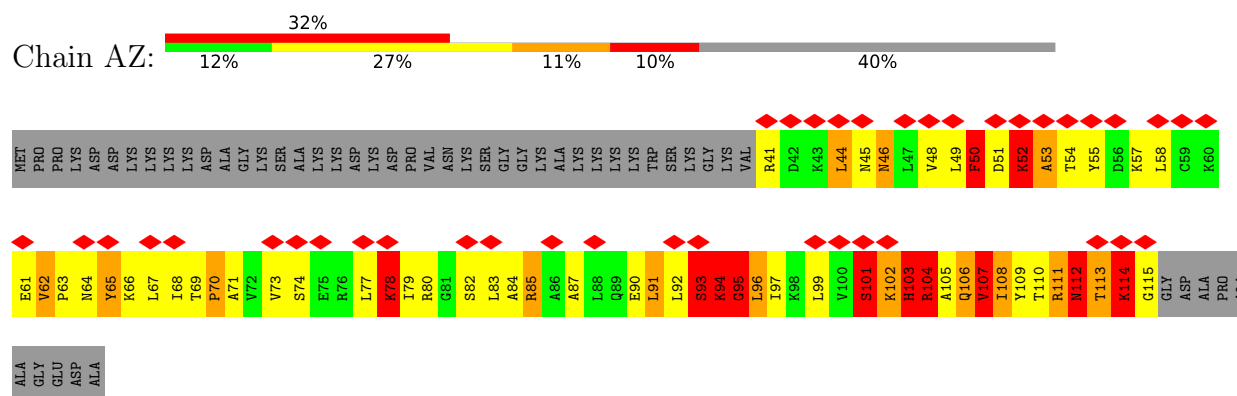
• Molecule 17: 40S ribosomal protein S21



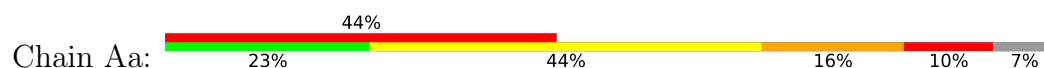
• Molecule 18: 40S ribosomal protein S24

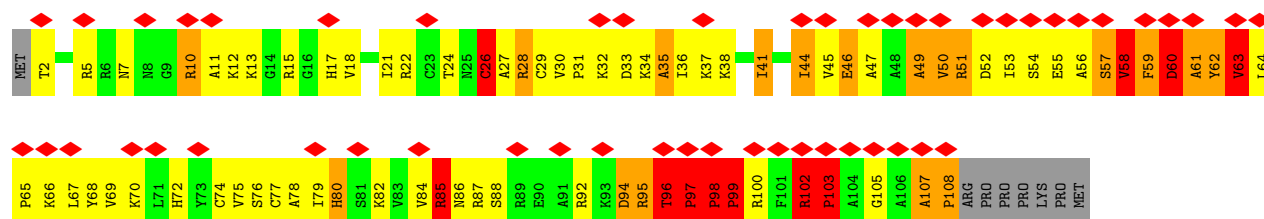


• Molecule 19: 40S ribosomal protein S25

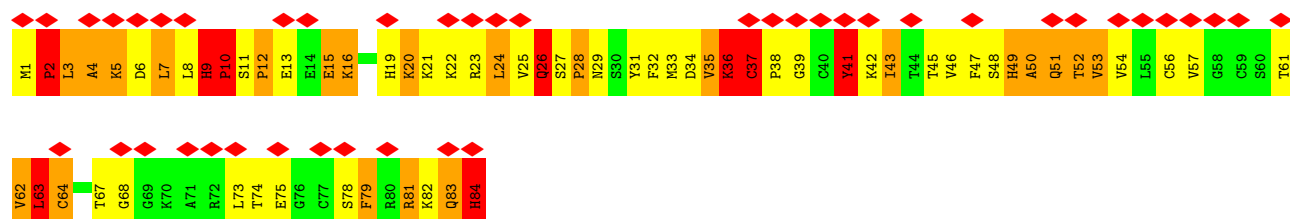
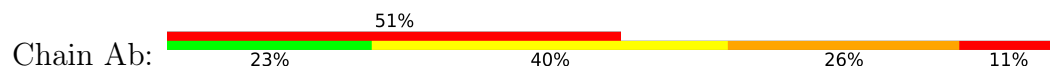


• Molecule 20: 40S ribosomal protein S26

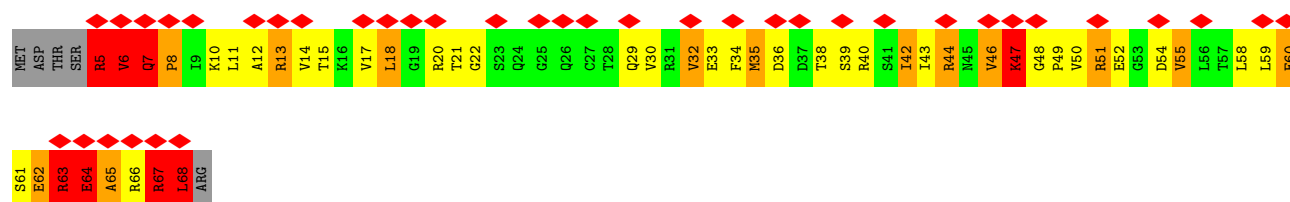
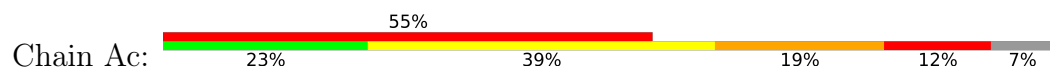




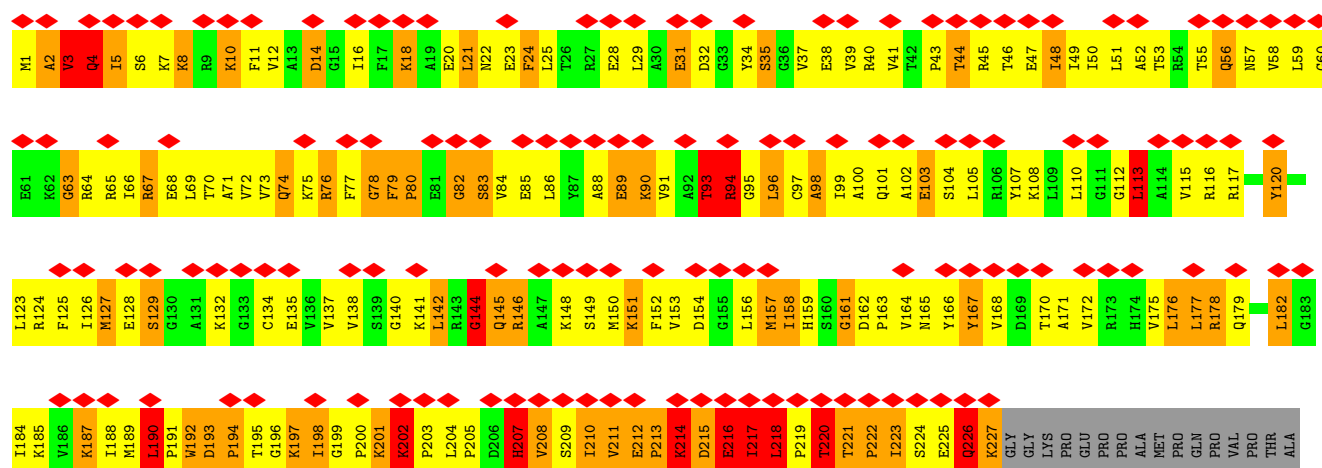
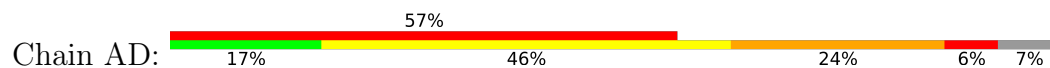
• Molecule 21: 40S ribosomal protein S27



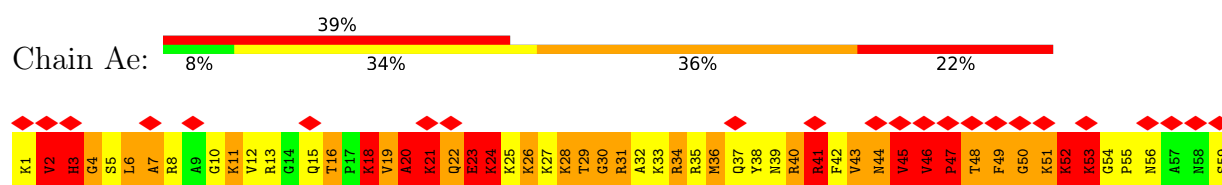
• Molecule 22: 40S ribosomal protein S28



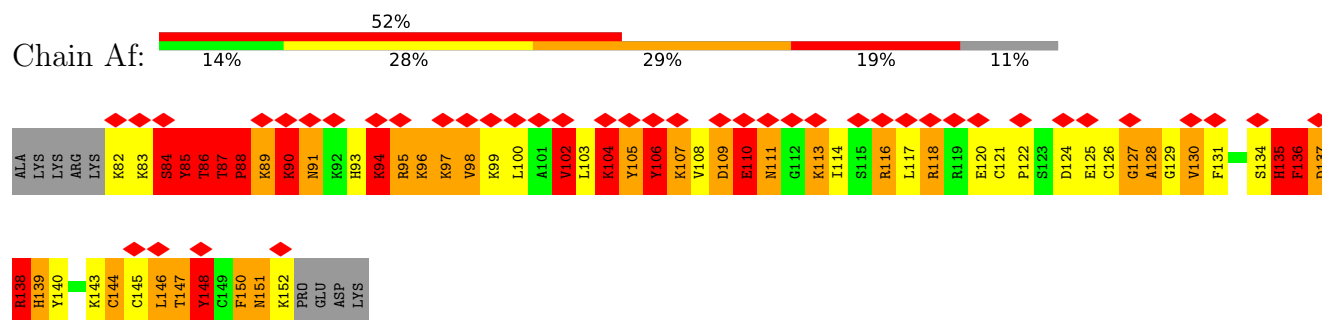
• Molecule 23: 40S ribosomal protein S3



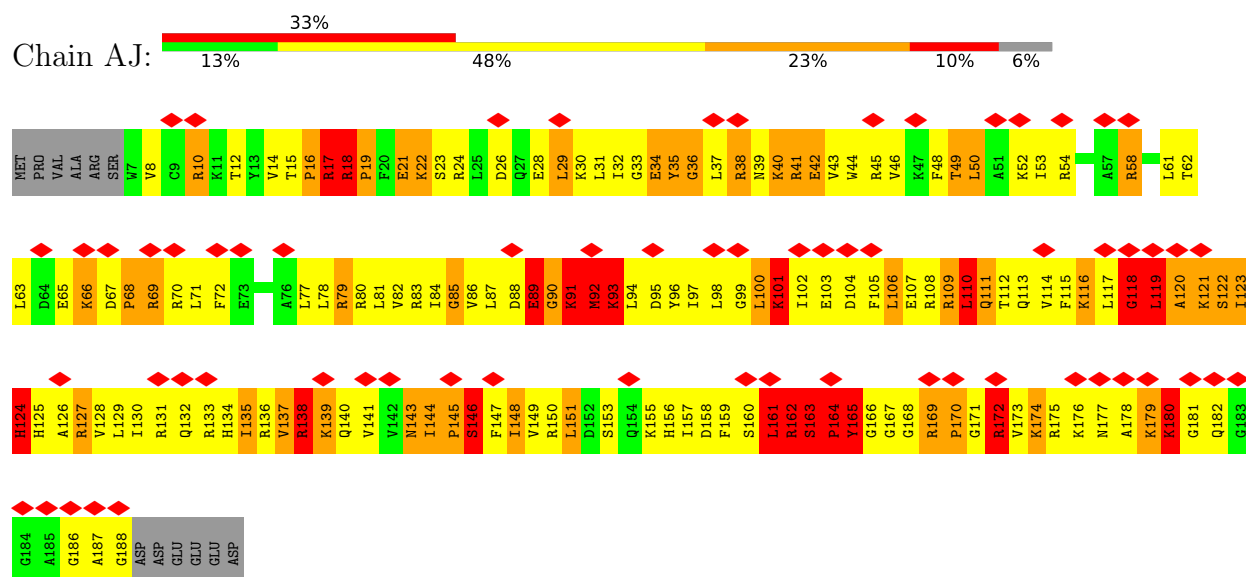
• Molecule 24: 40S ribosomal protein S30



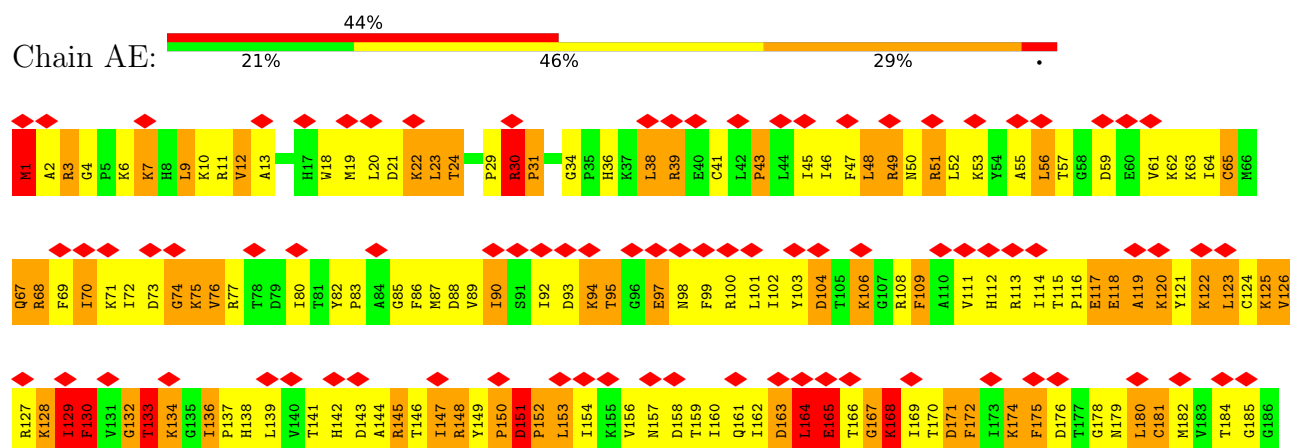
• Molecule 25: 40S ribosomal protein S27a

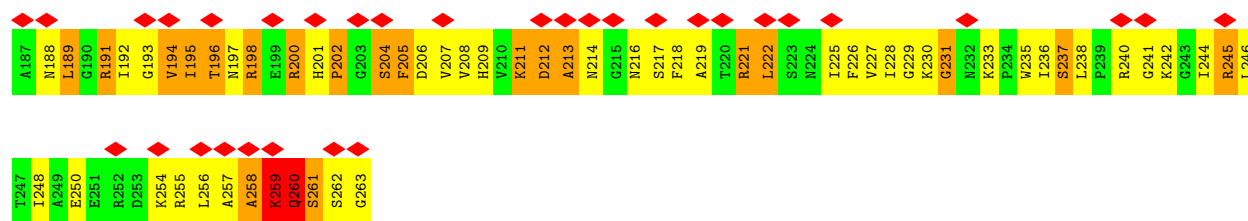


• Molecule 26: 40S ribosomal protein S9

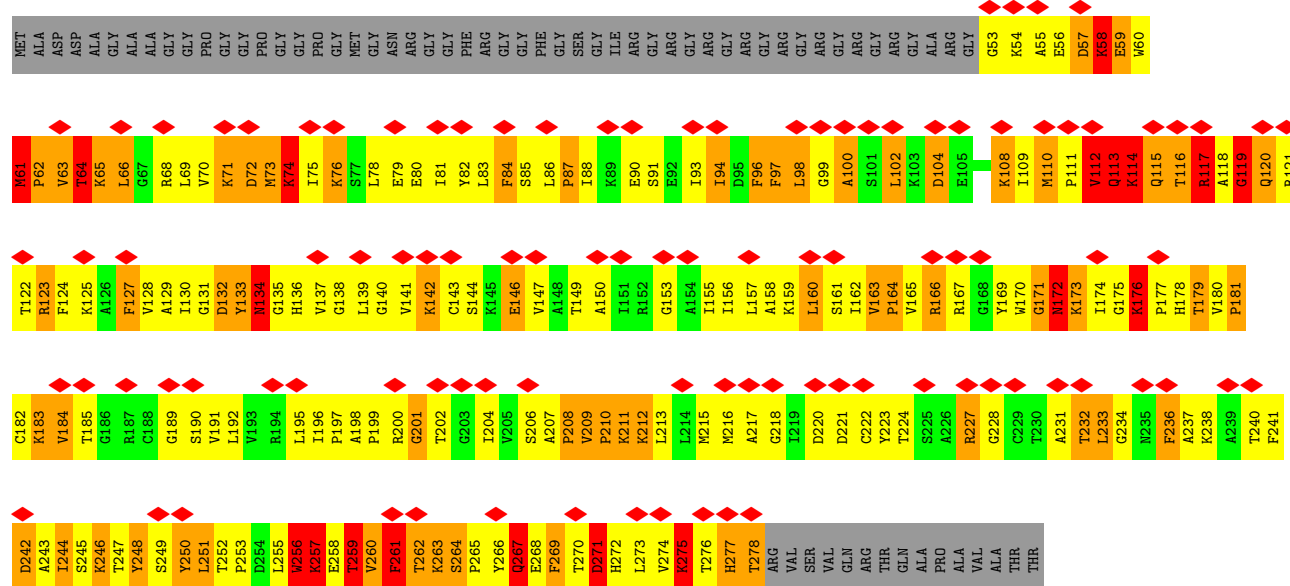


• Molecule 27: 40S ribosomal protein S4, X isoform

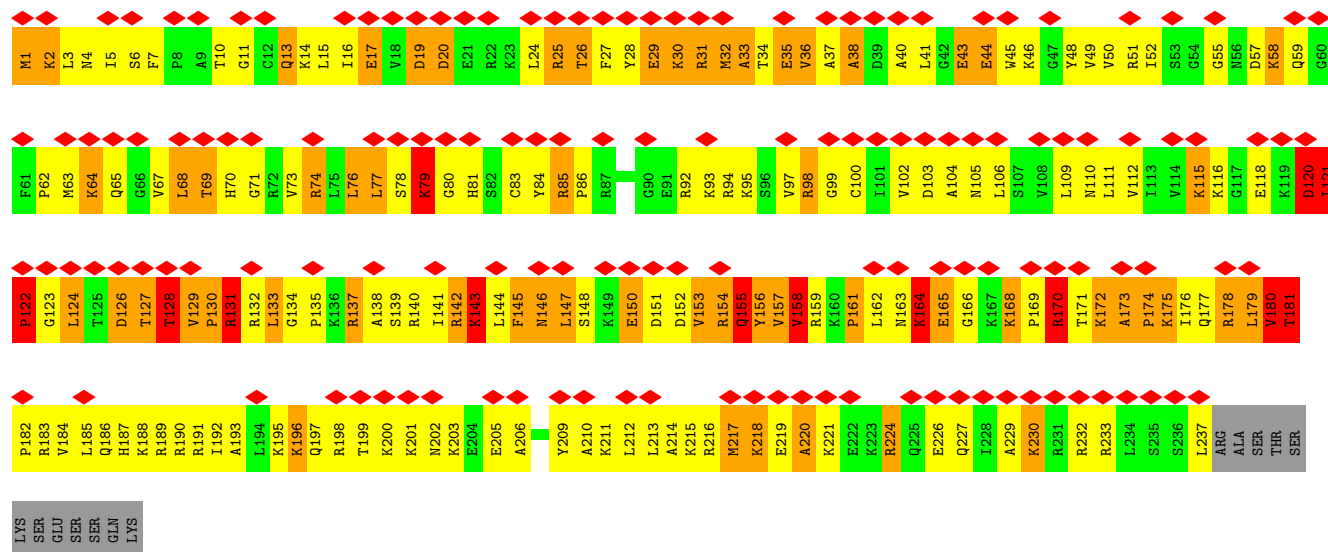
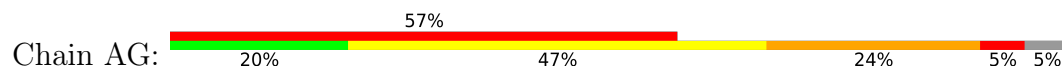




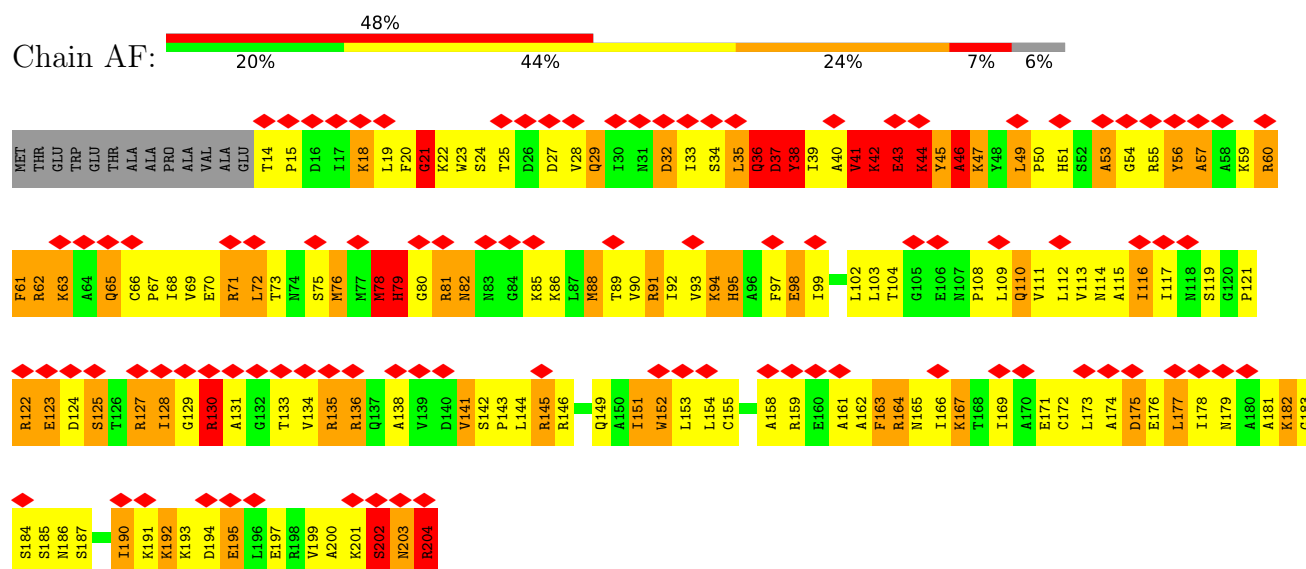
• Molecule 28: 40S ribosomal protein S2



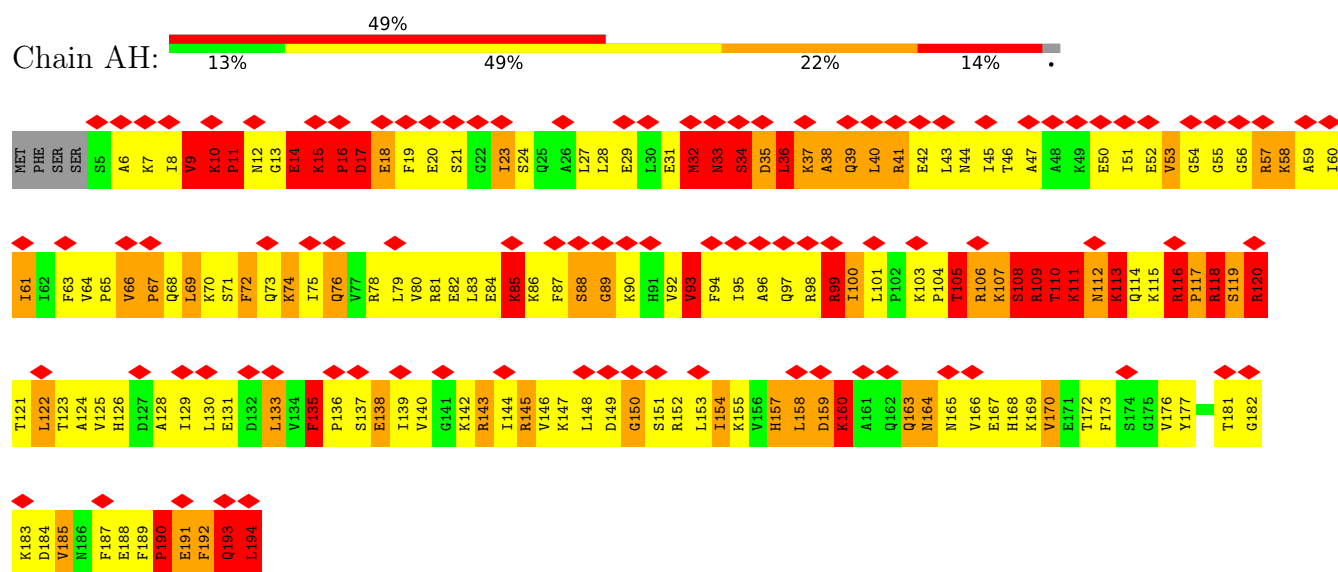
• Molecule 29: 40S ribosomal protein S6



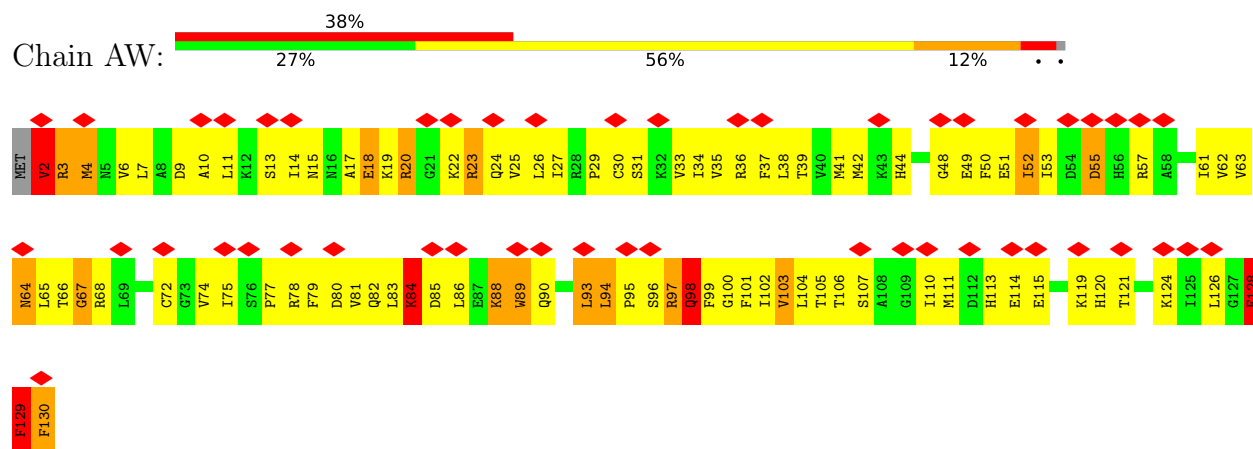
• Molecule 30: 40S ribosomal protein S5

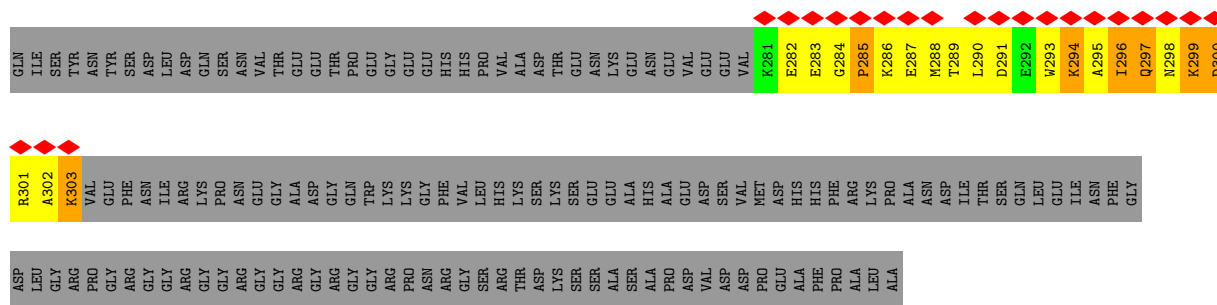


• Molecule 31: 40S ribosomal protein S7

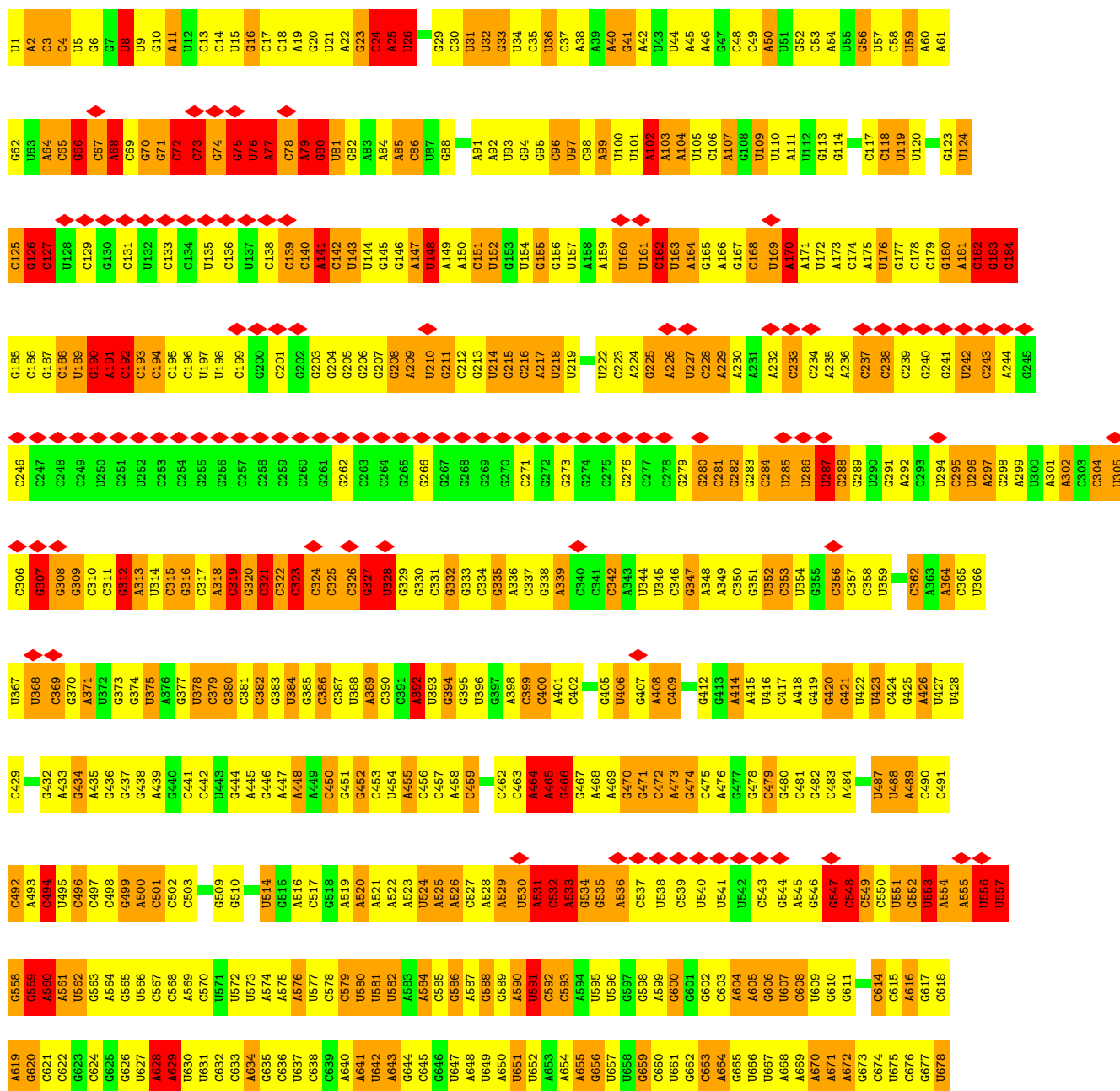
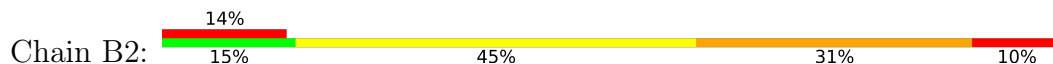


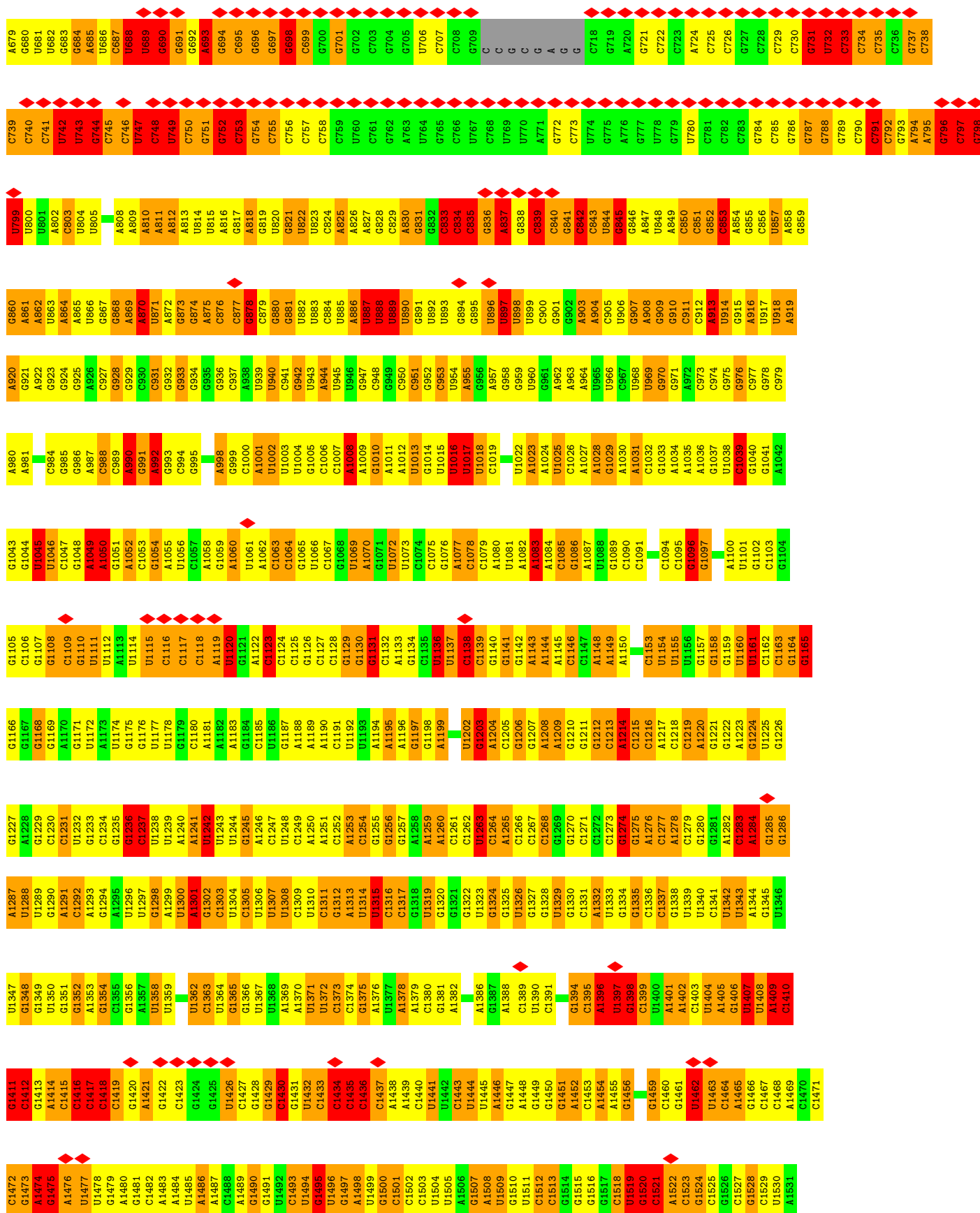
• Molecule 32: 40S ribosomal protein S15a

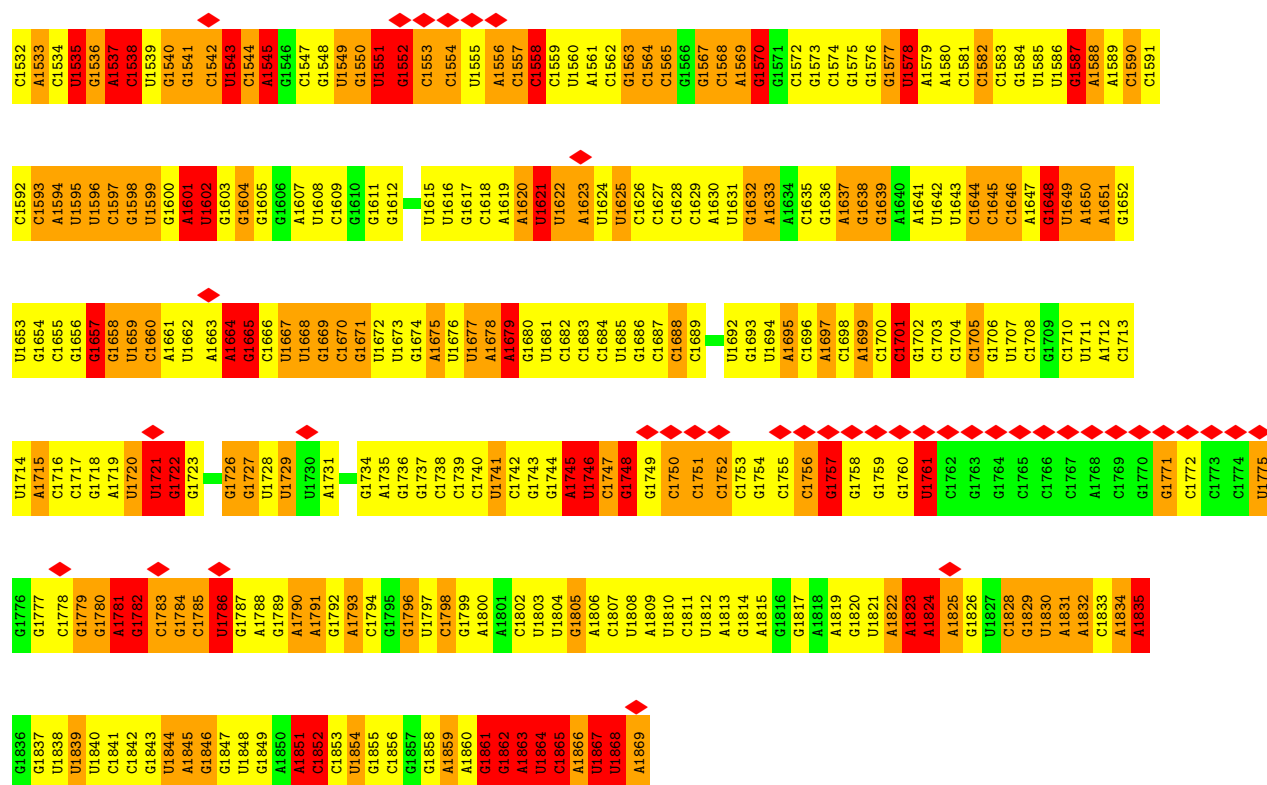




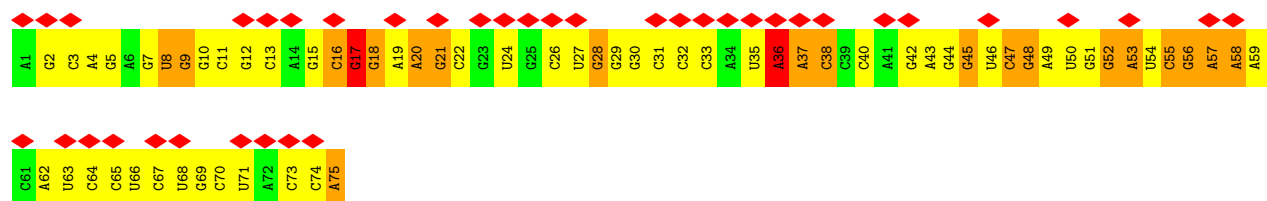
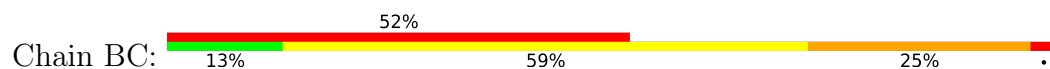
• Molecule 36: 18S ribosomal RNA



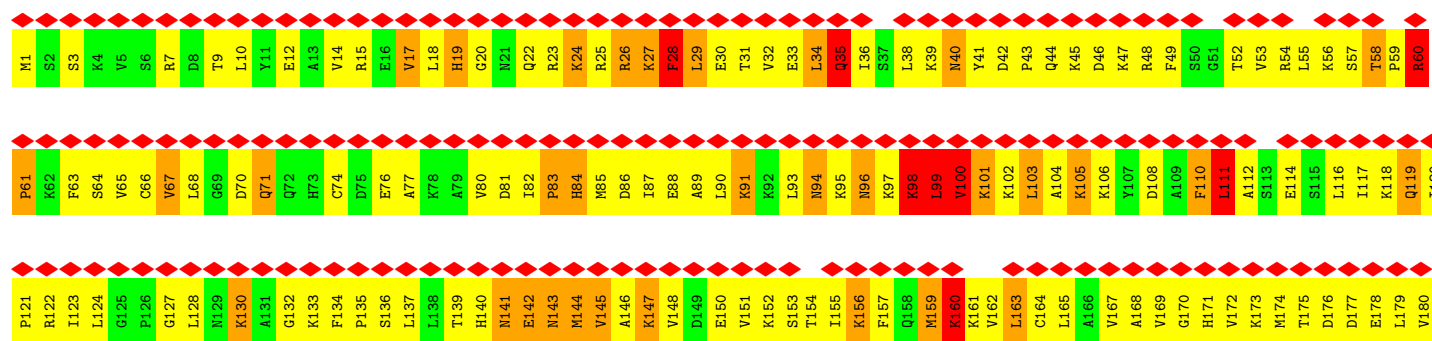




• Molecule 37: E-tRNA

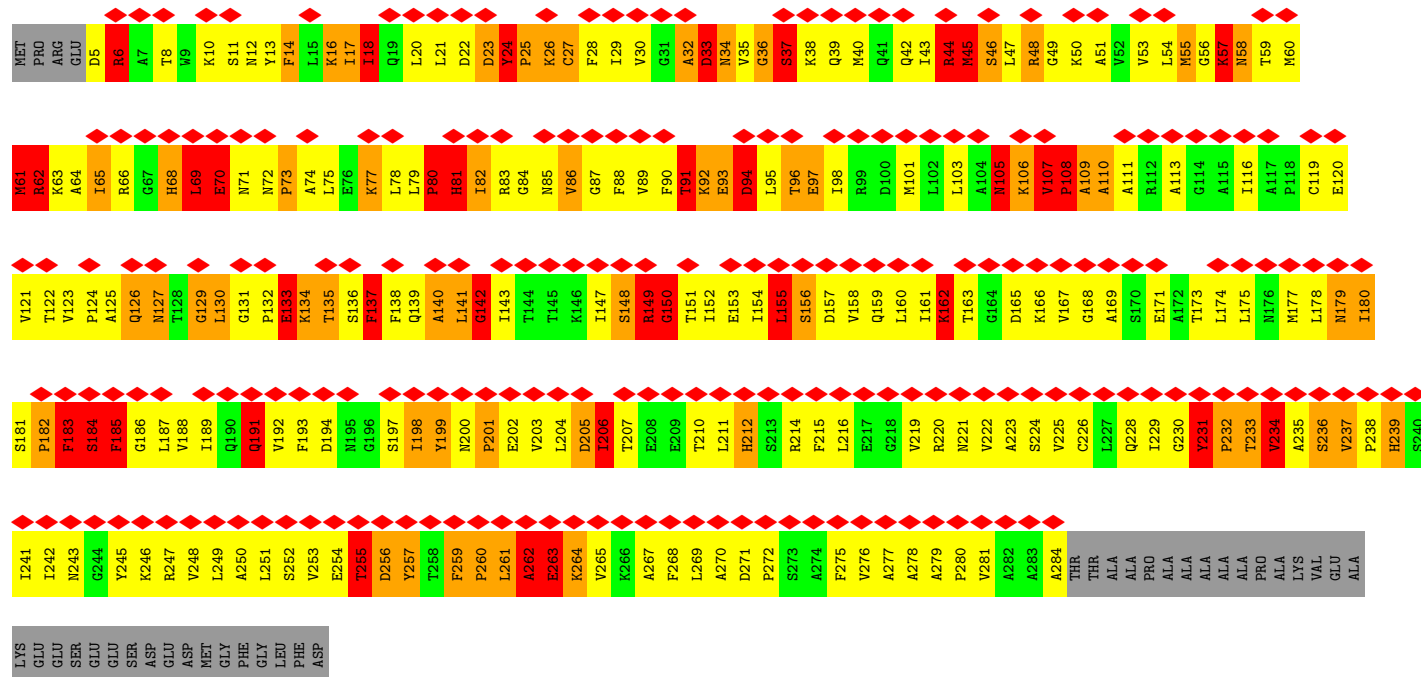
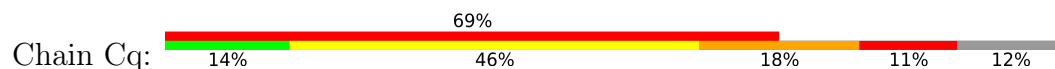


• Molecule 38: 60S ribosomal protein L10a

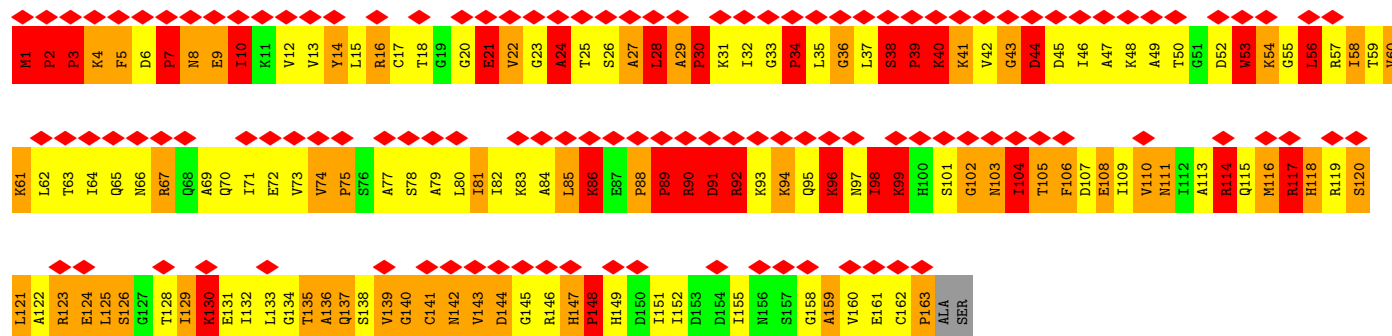
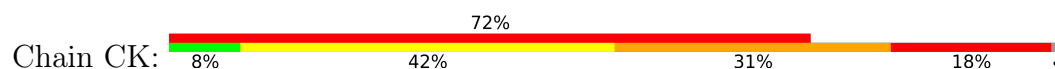




• Molecule 39: 60S acidic ribosomal protein P0

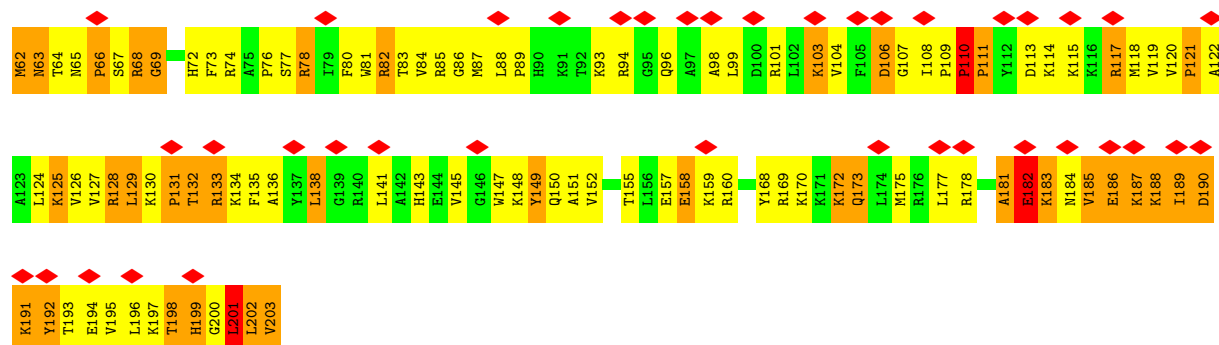


• Molecule 40: 60S ribosomal protein L12

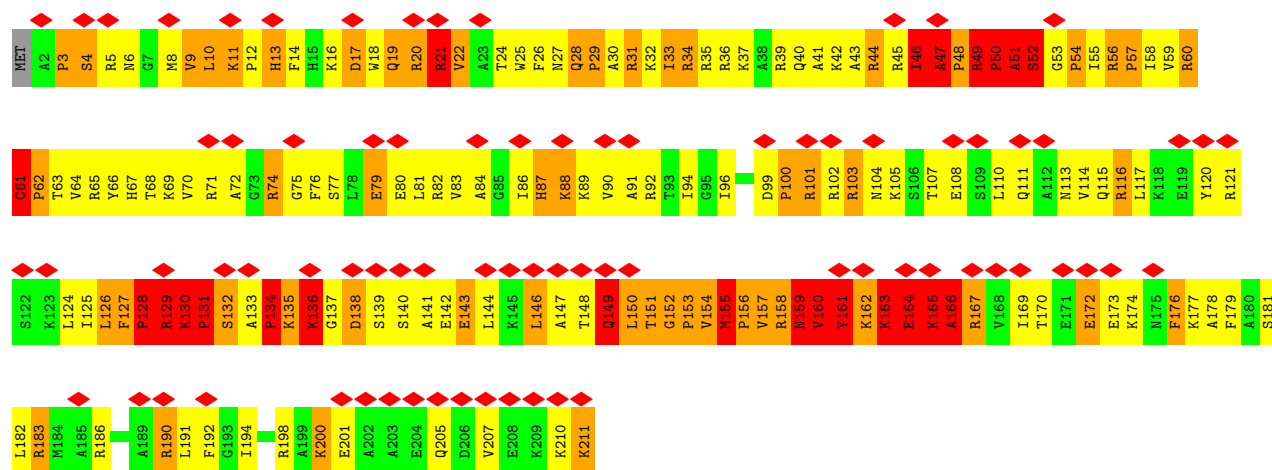
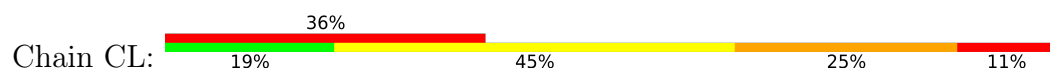


• Molecule 41: 60S ribosomal protein L13a

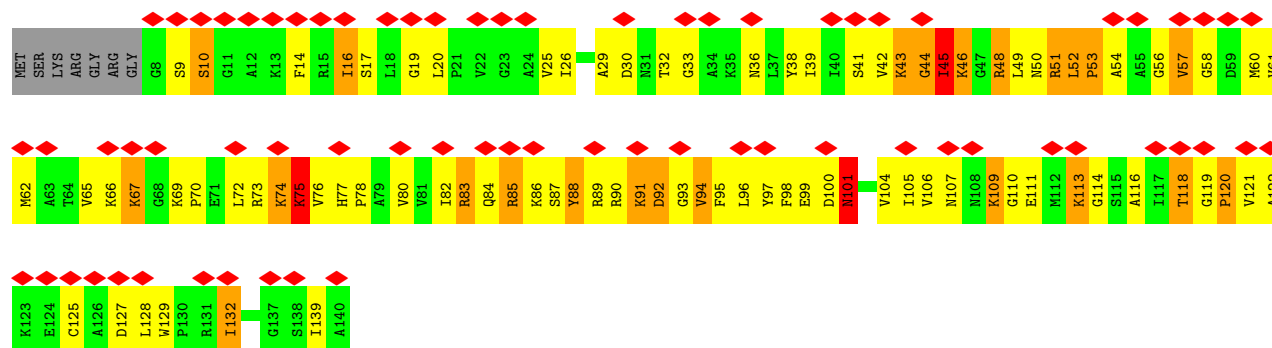




• Molecule 42: 60S ribosomal protein L13

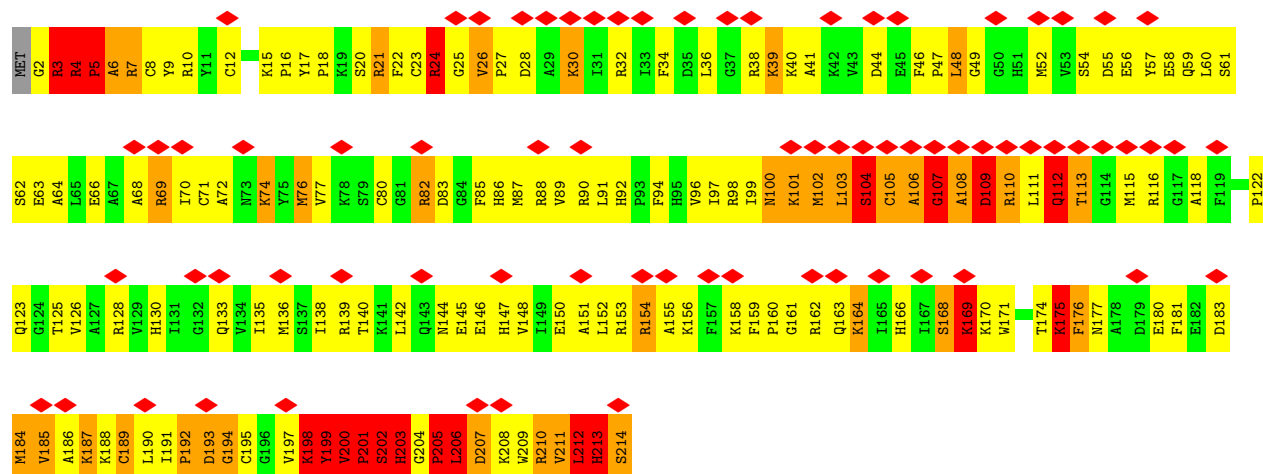


• Molecule 43: 60S ribosomal protein L23

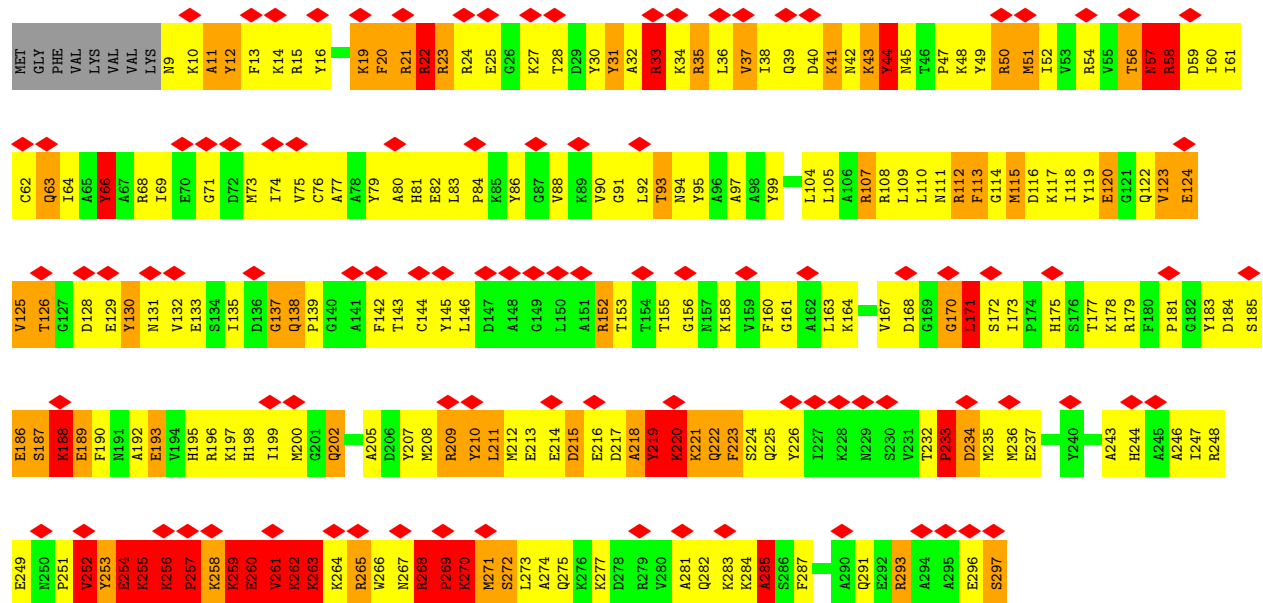


• Molecule 44: 60S ribosomal protein L14

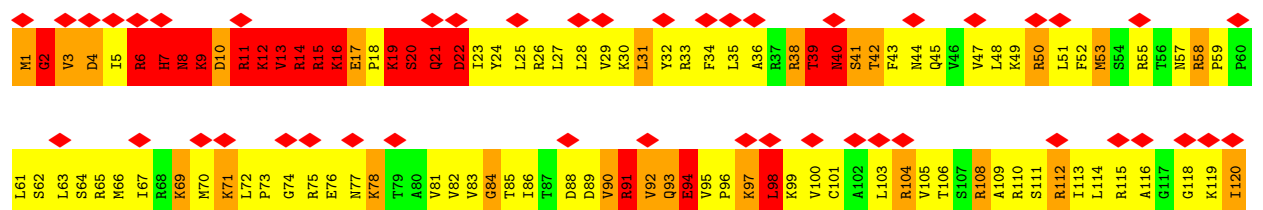
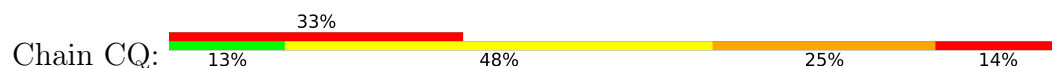


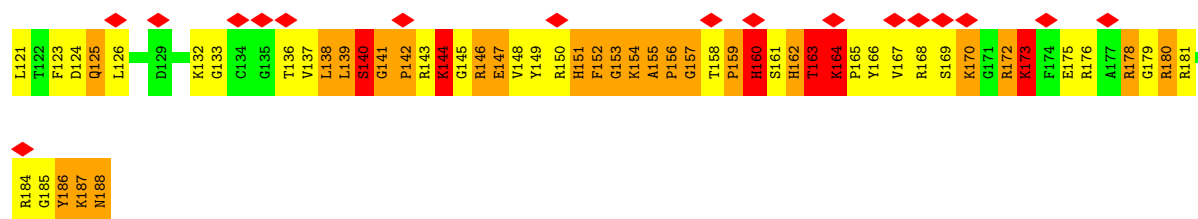


• Molecule 48: 60S ribosomal protein L5

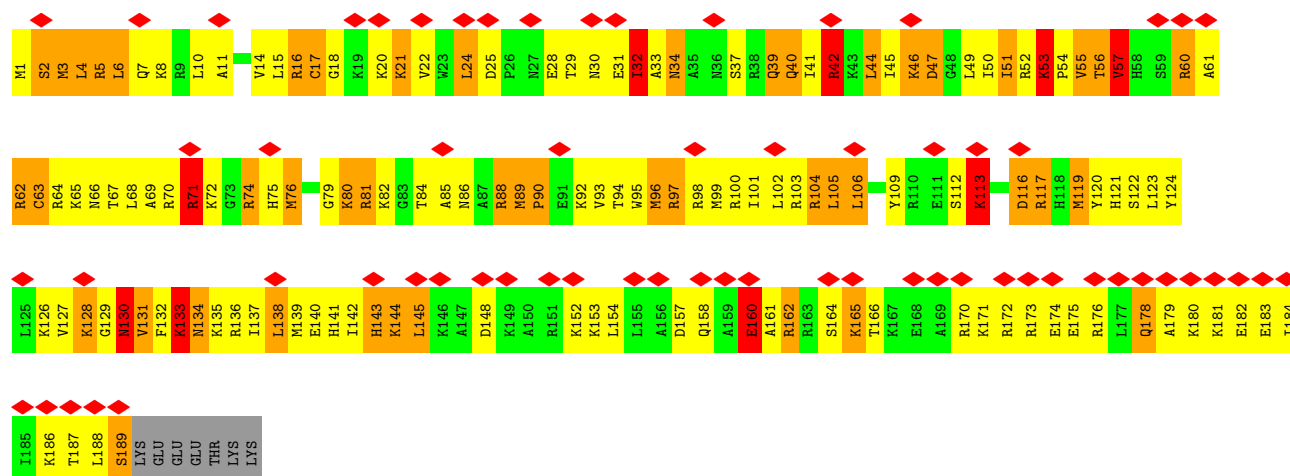
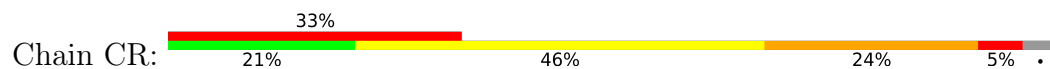


• Molecule 49: 60S ribosomal protein L18

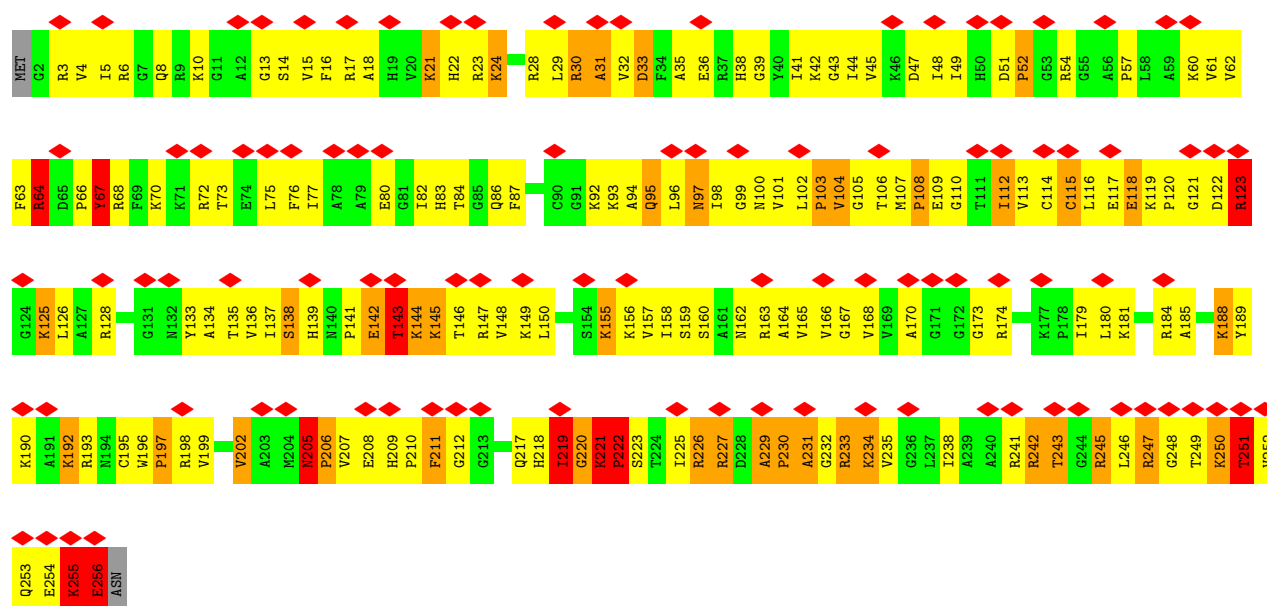




• Molecule 50: 60S ribosomal protein L19

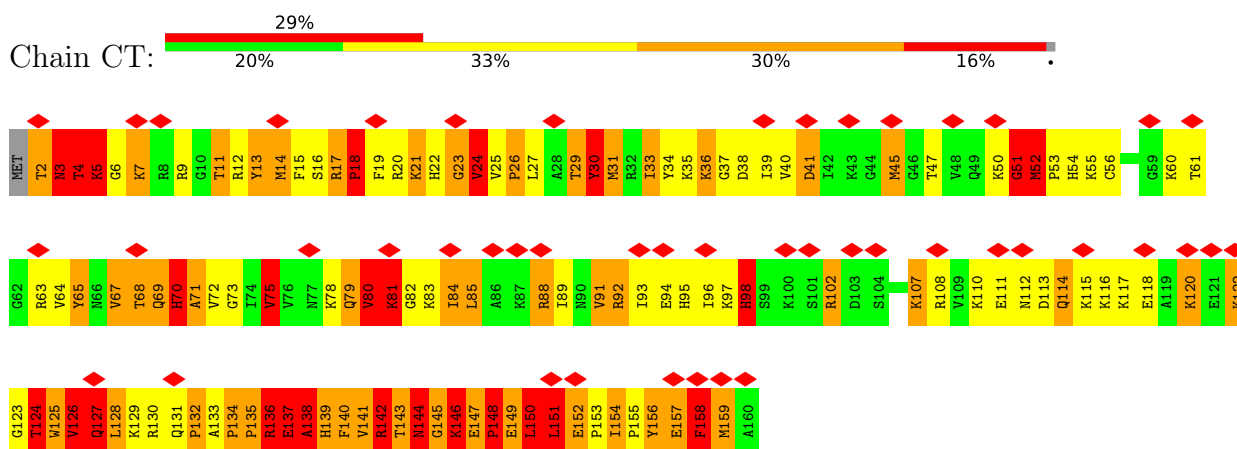


• Molecule 51: 60S ribosomal protein L8

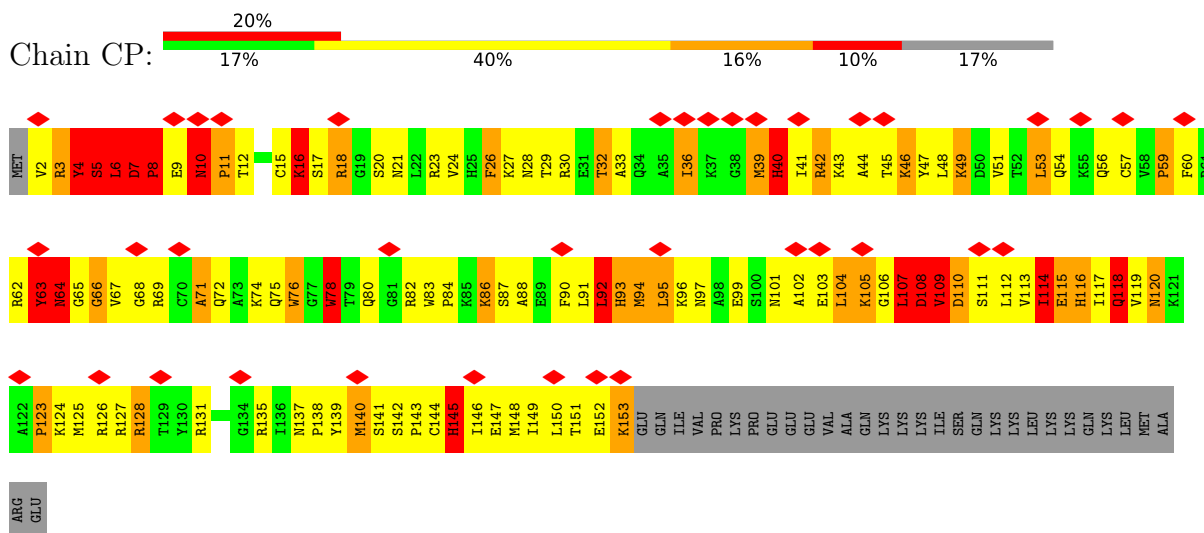


• Molecule 52: 60S ribosomal protein L18a

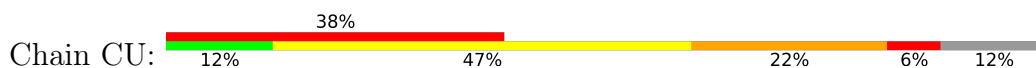
- Molecule 53: 60S ribosomal protein L21

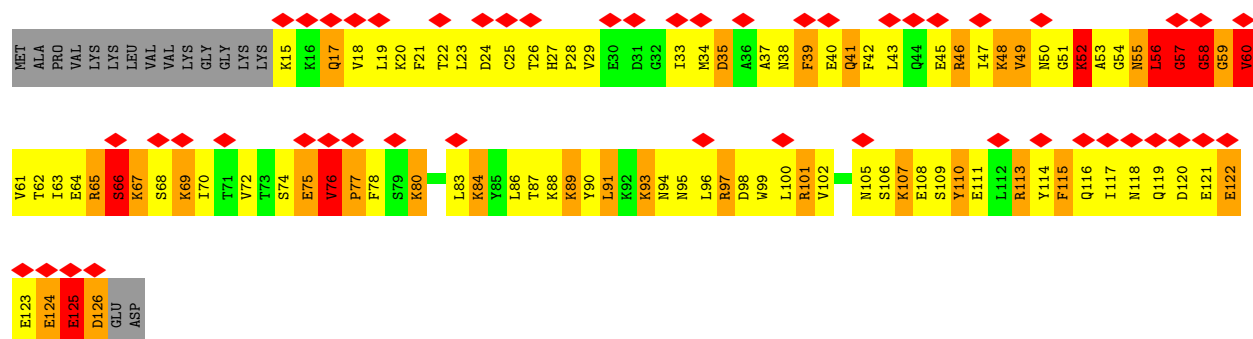


- Molecule 54: 60S ribosomal protein L17

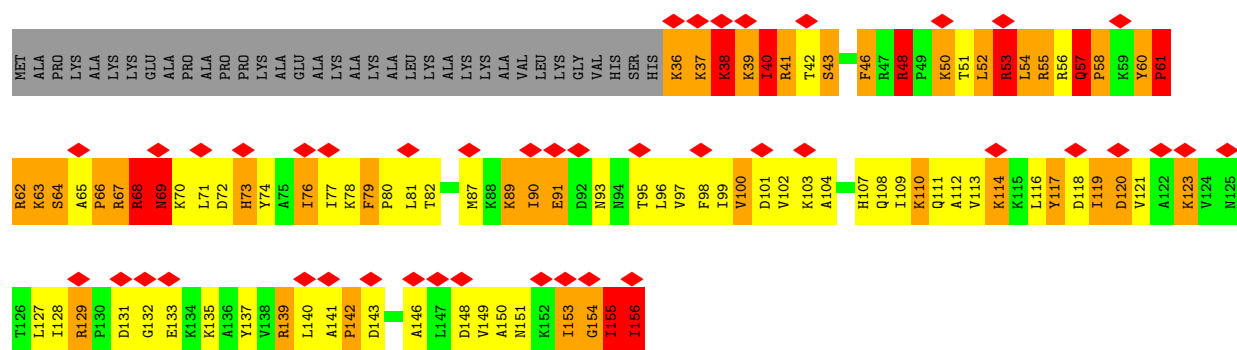


- Molecule 55: 60S ribosomal protein L22

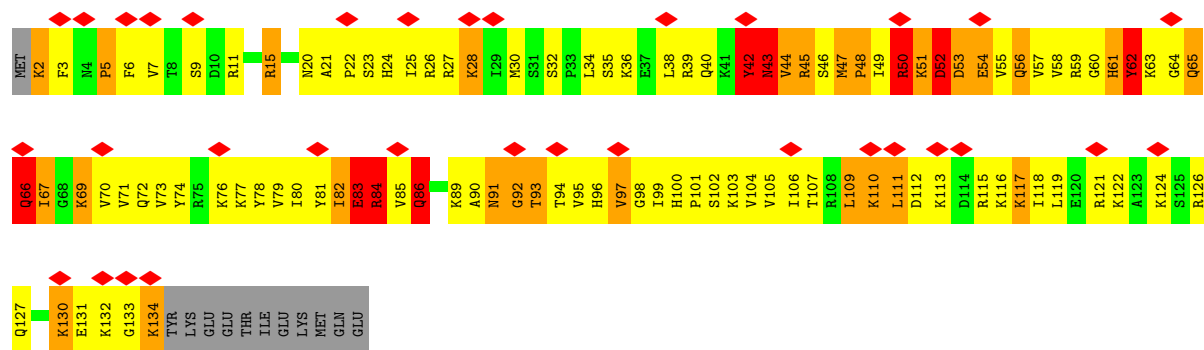
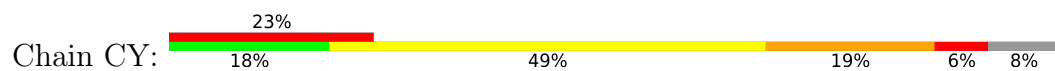




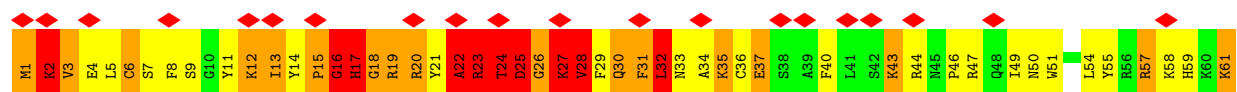
• Molecule 56: 60S ribosomal protein L23a

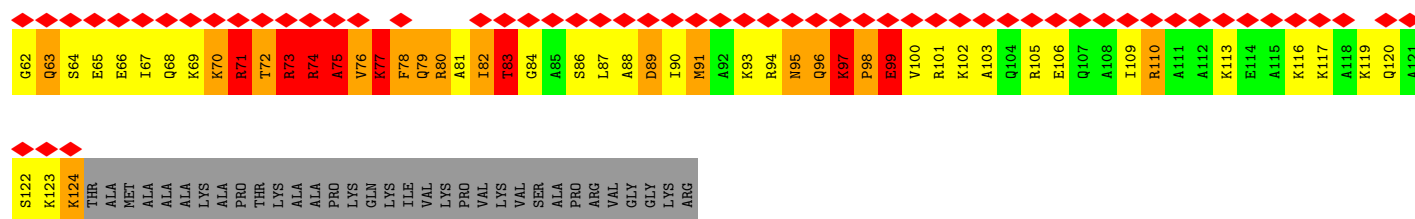


• Molecule 57: 60S ribosomal protein L26

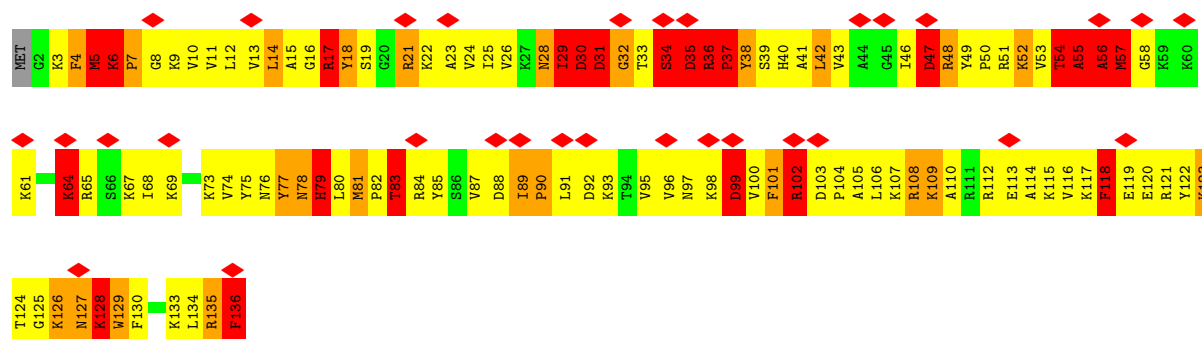
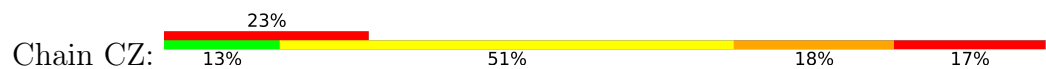


• Molecule 58: 60S ribosomal protein L24

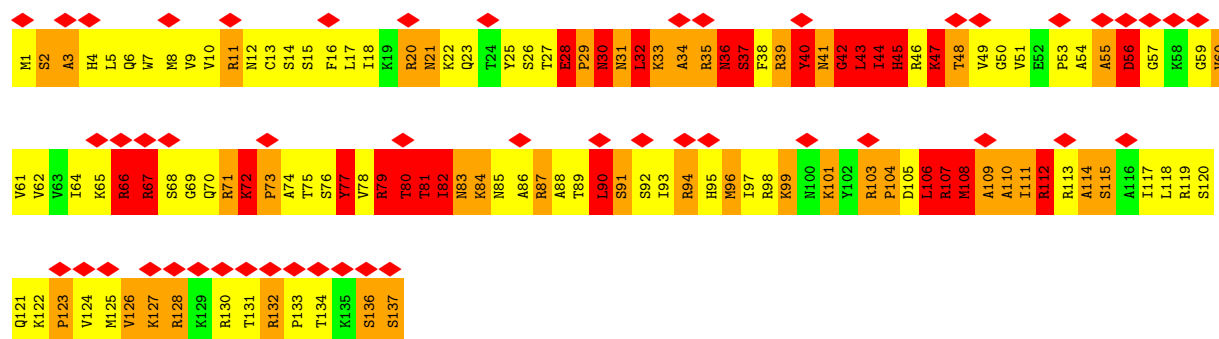




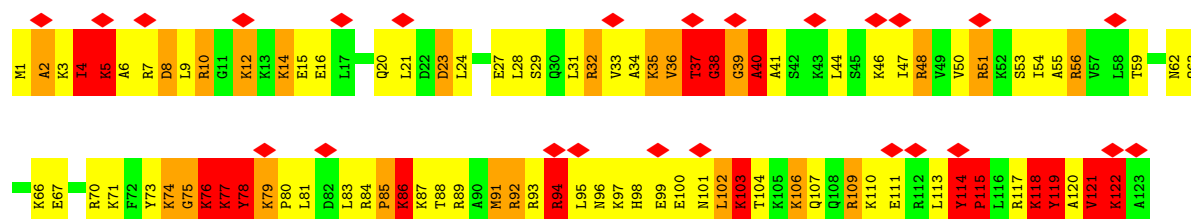
• Molecule 59: 60S ribosomal protein L27



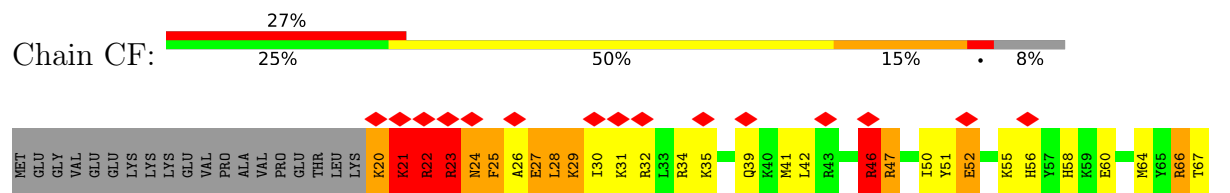
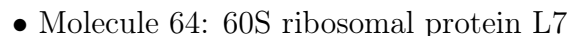
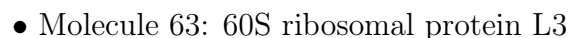
• Molecule 60: 60S ribosomal protein L28

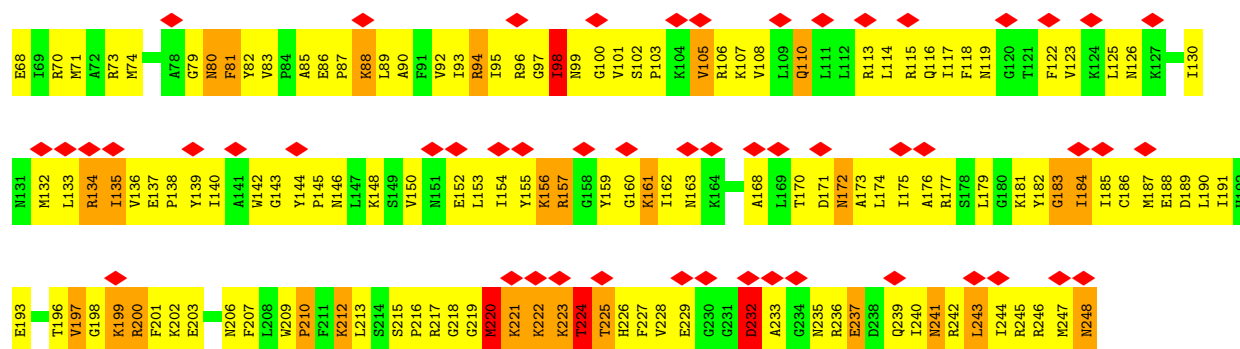


• Molecule 61: 60S ribosomal protein L35

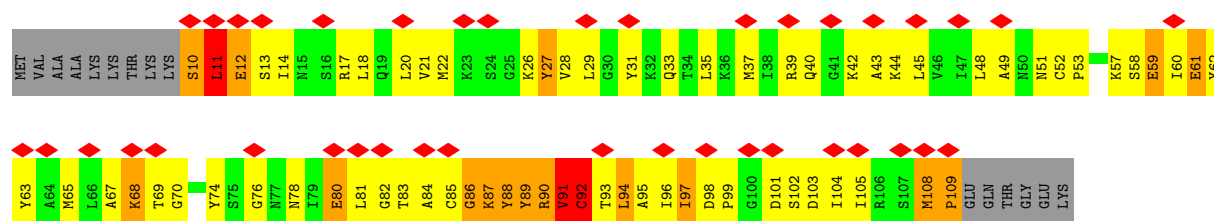


• Molecule 62: 60S ribosomal protein L29

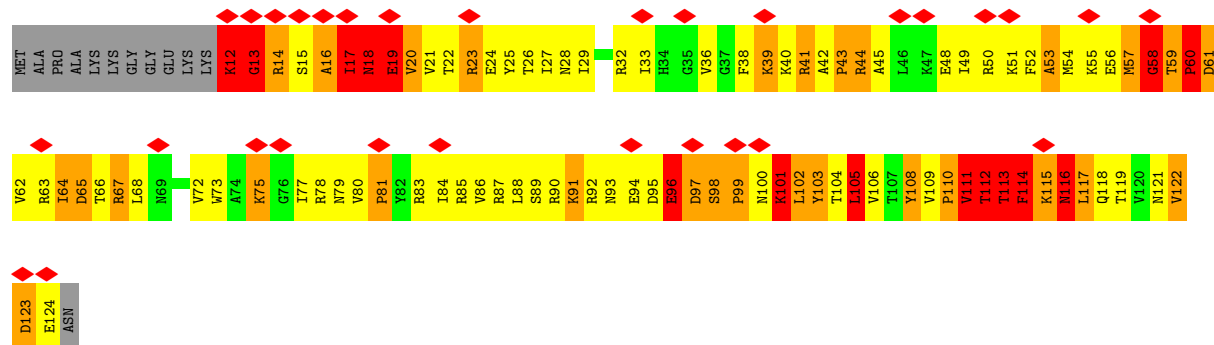




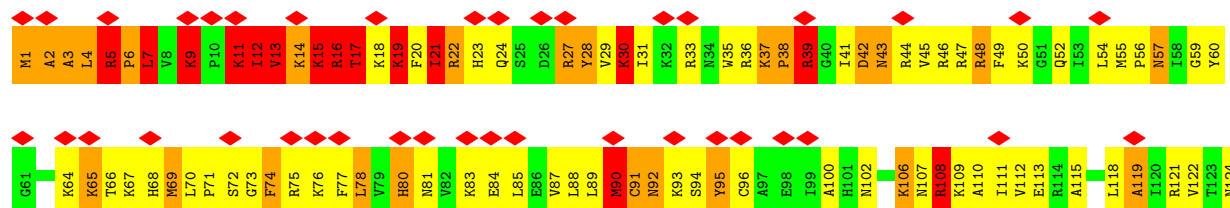
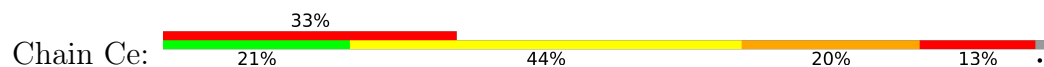
• Molecule 65: 60S ribosomal protein L30



• Molecule 66: 60S ribosomal protein L31

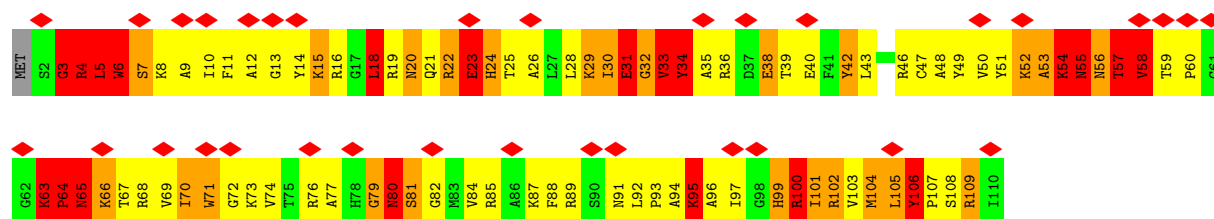
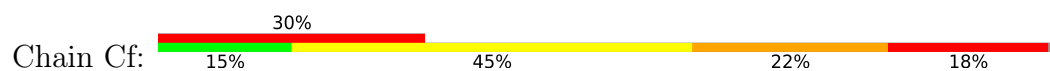


• Molecule 67: 60S ribosomal protein L32





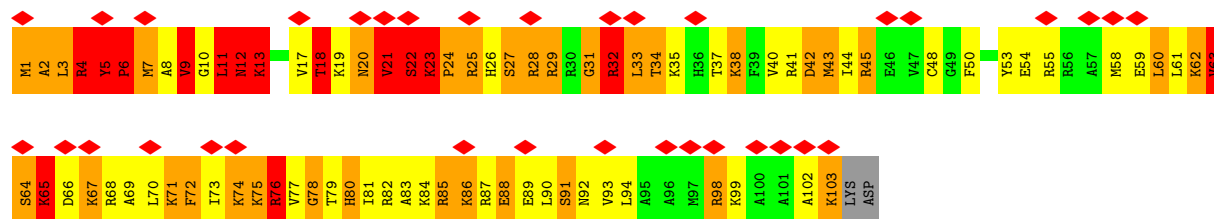
- Molecule 68: 60S ribosomal protein L35a



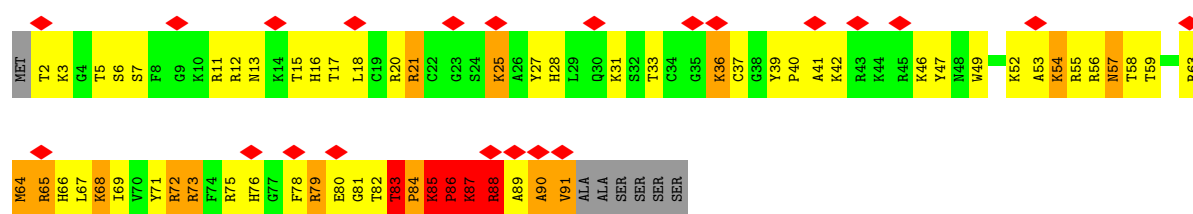
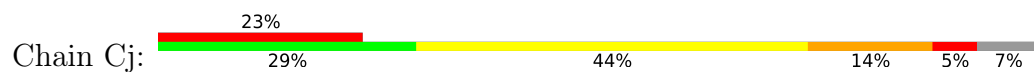
- Molecule 69: 60S ribosomal protein L34



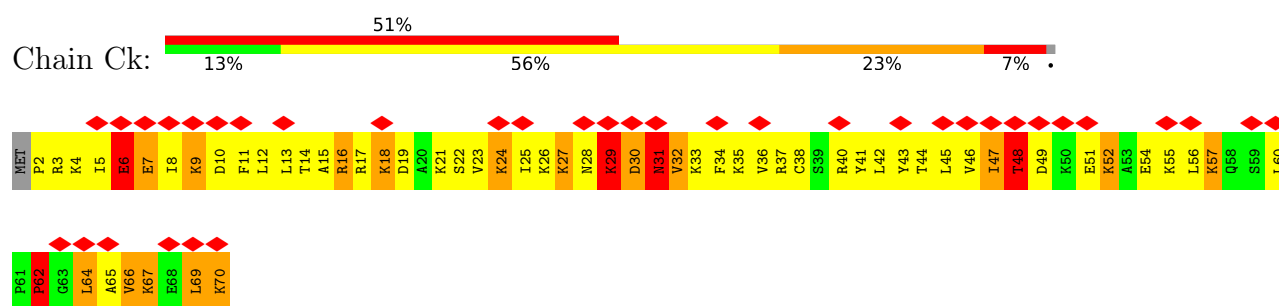
- Molecule 70: 60S ribosomal protein L36



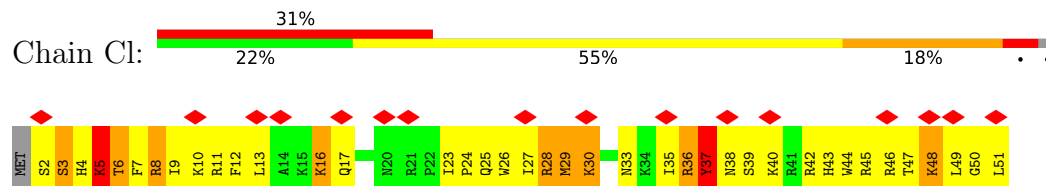
- Molecule 71: 60S ribosomal protein L37



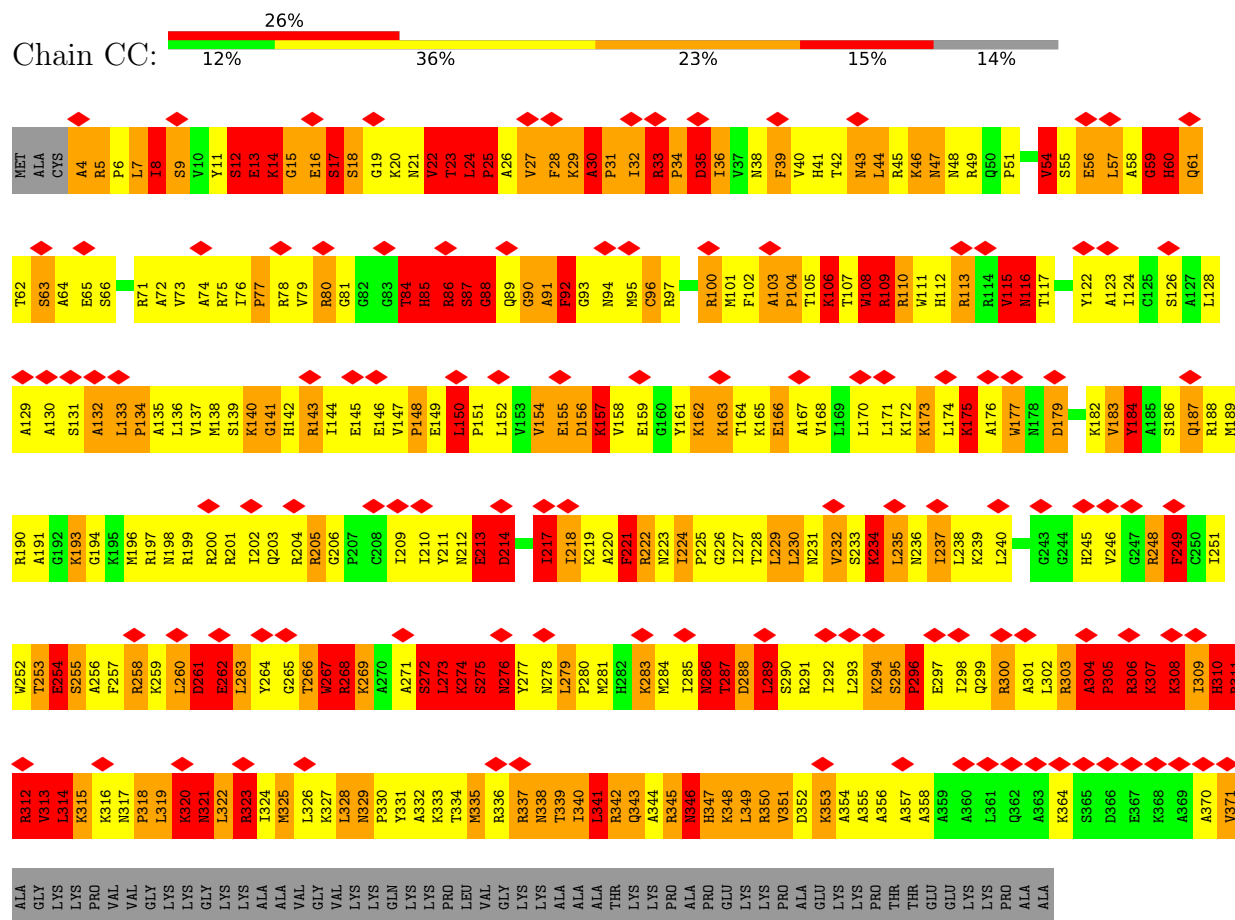
- Molecule 72: 60S ribosomal protein L38



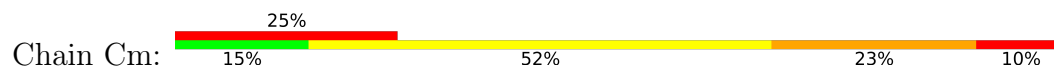
• Molecule 73: 60S ribosomal protein L39

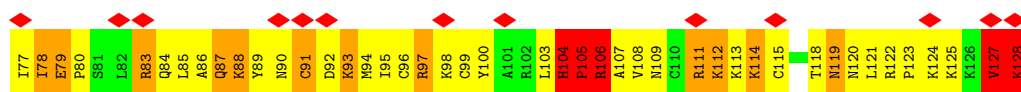


• Molecule 74: 60S ribosomal protein L4

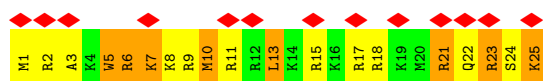
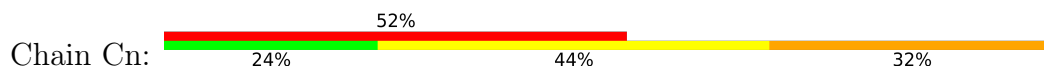


• Molecule 75: 60S ribosomal protein L40

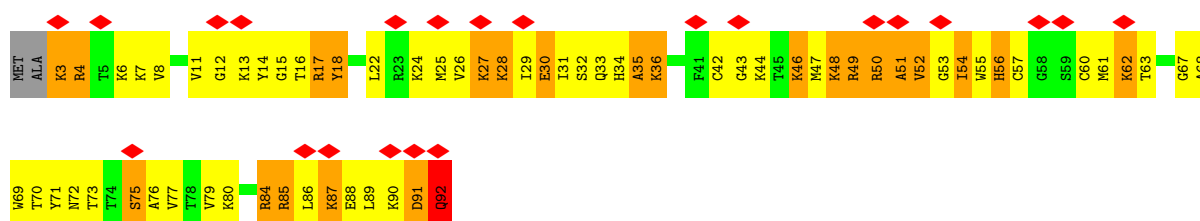




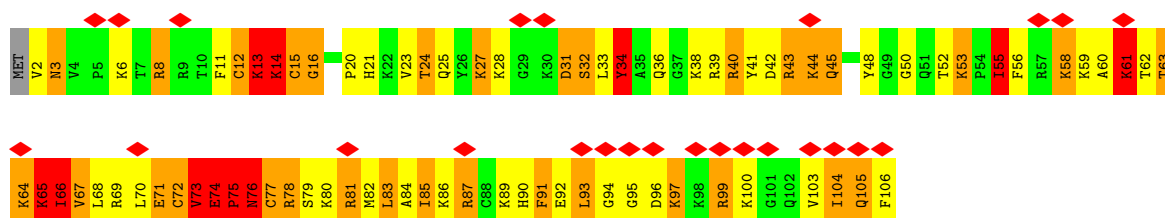
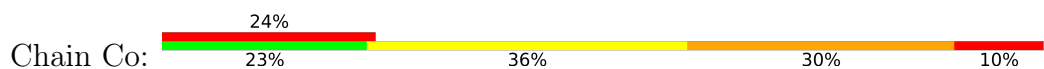
• Molecule 76: 60S ribosomal protein L41



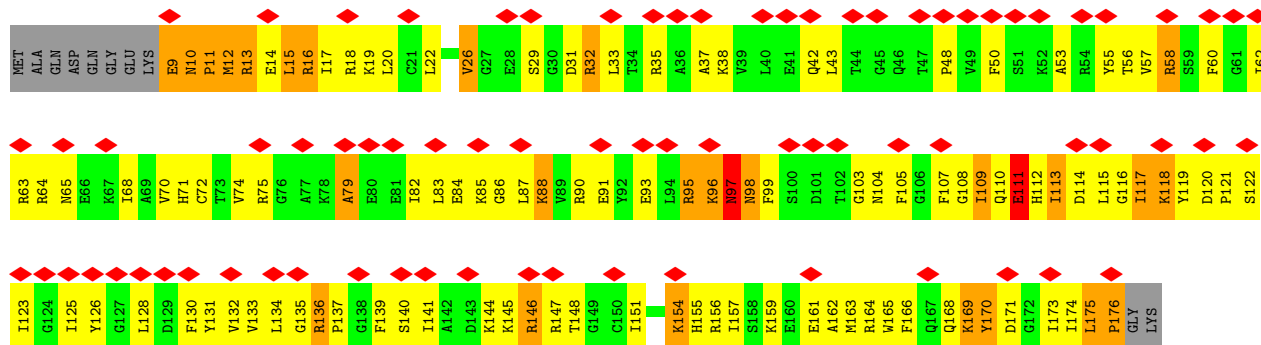
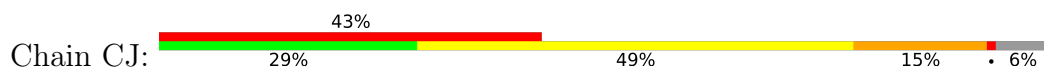
• Molecule 77: 60S ribosomal protein L37a



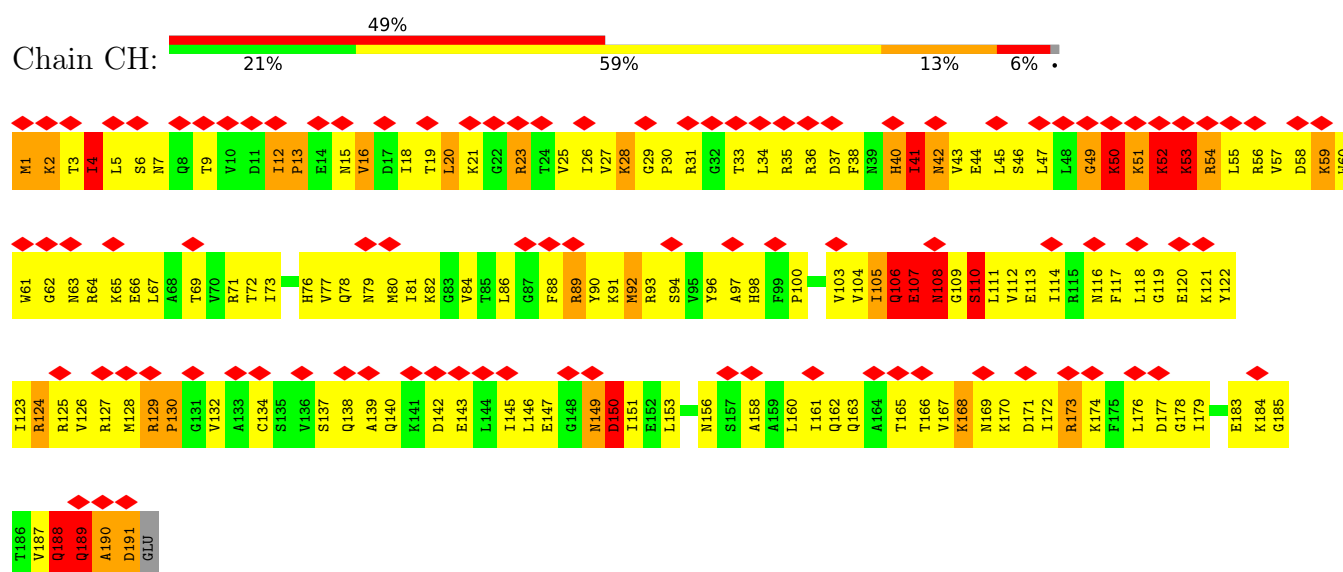
• Molecule 78: 60S ribosomal protein L36a



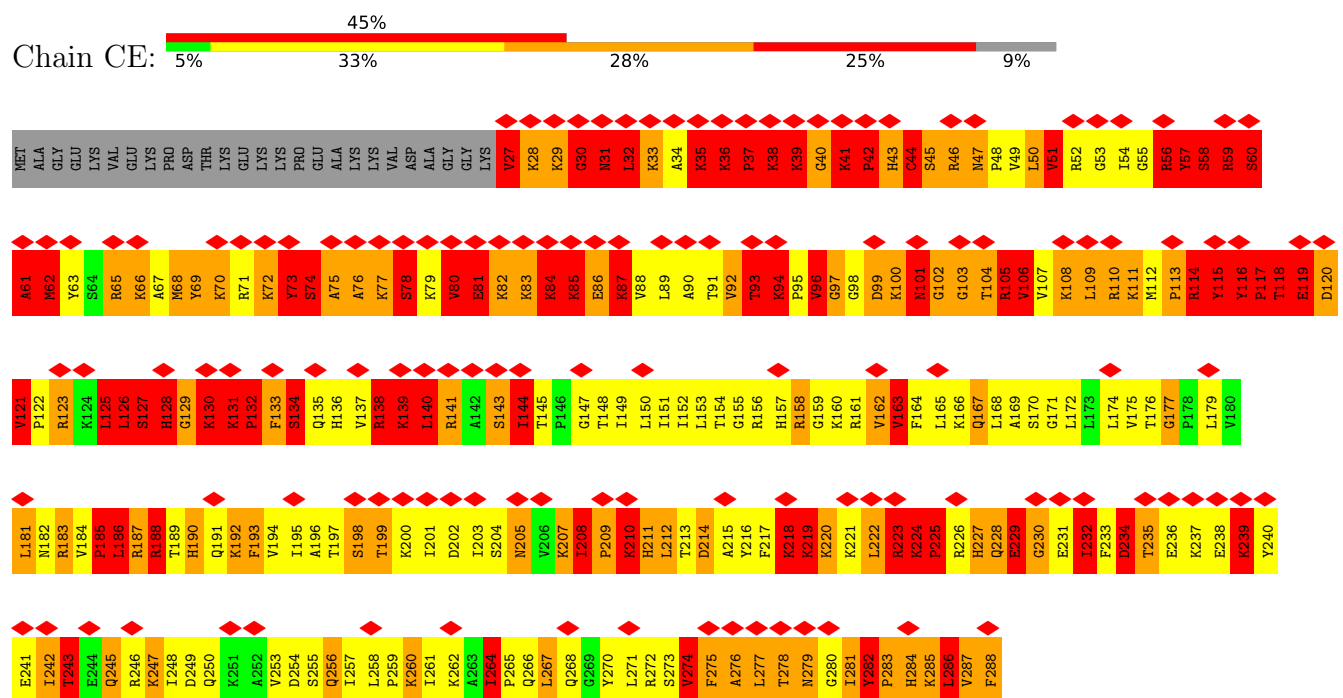
• Molecule 79: 60S ribosomal protein L11

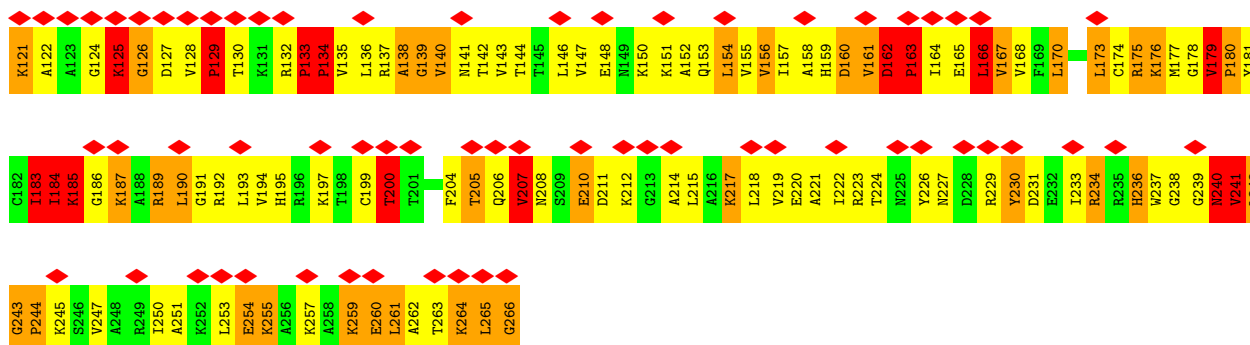


• Molecule 80: 60S ribosomal protein L9

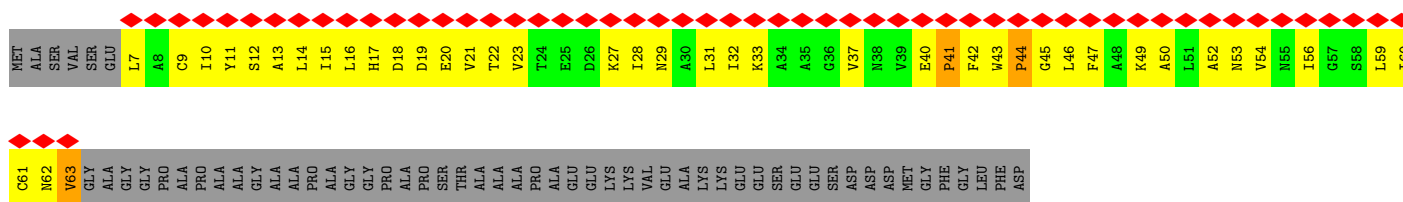


• Molecule 81: 60S ribosomal protein L6

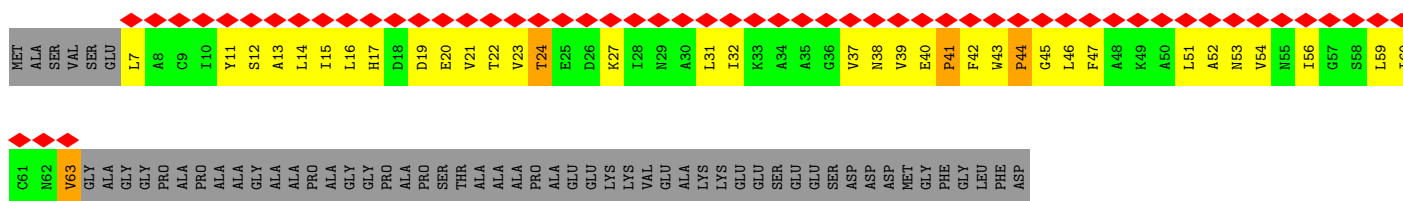




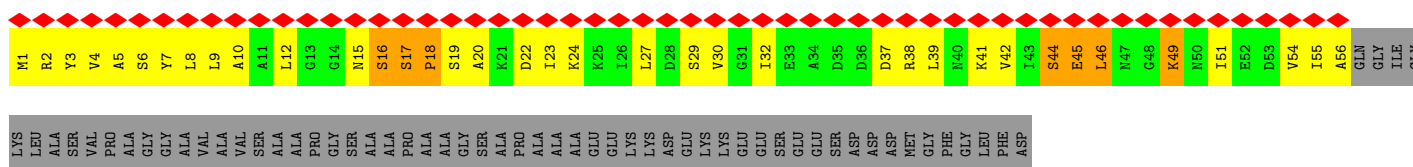
• Molecule 83: 60S acidic ribosomal protein P1



• Molecule 83: 60S acidic ribosomal protein P1



• Molecule 84: 60S acidic ribosomal protein P2

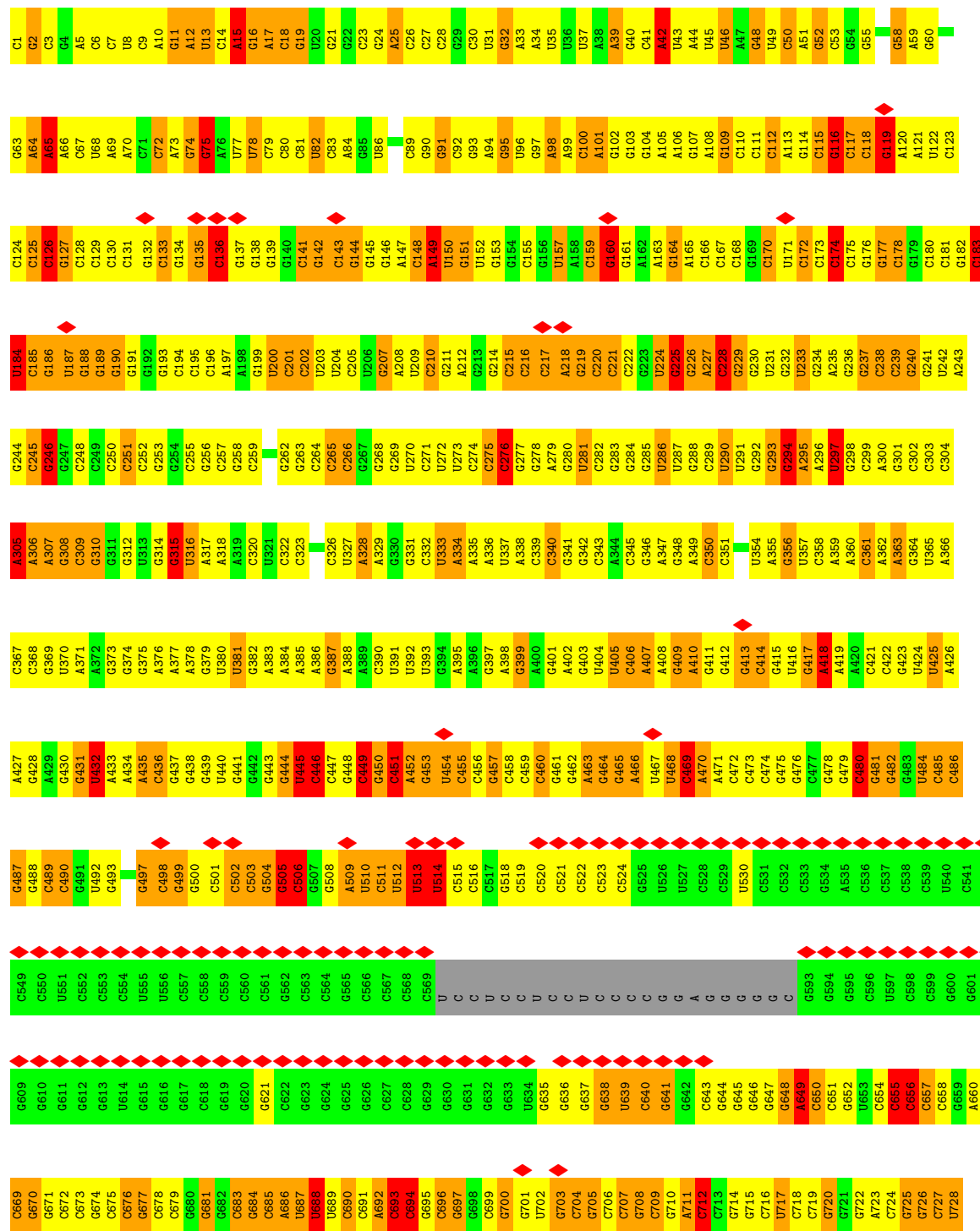
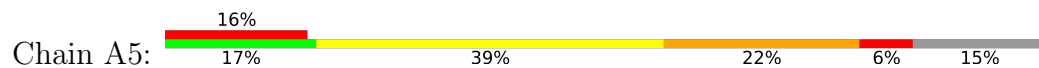


• Molecule 84: 60S acidic ribosomal protein P2



LYS	LEU	ALA	SER	VAL	PRO	ALA	GLY	GLY	VAL	ALA	VAL	ALA	SER	ALA	ALA	PRO	GLY	SER	ALA	ALA	ALA	GLY	SER	ALA	ALA	GLY	ASP

● Molecule 85: 28S ribosomal RNA



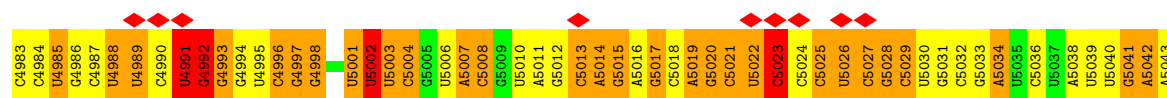




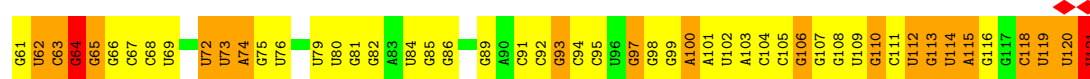
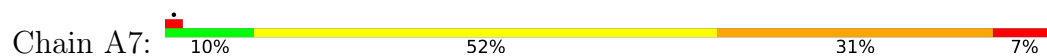


[illegible]

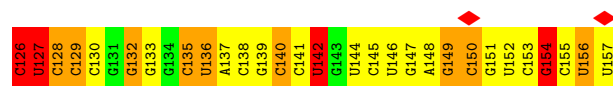
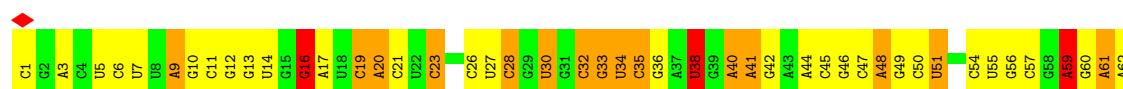
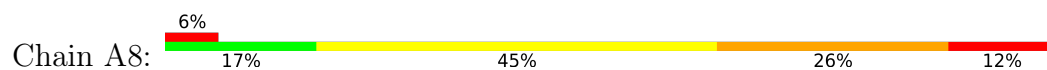
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C4924	U4864	C4804	A4744	C4561	A4624	U4501	U4501	G4440	G4316	A4256	C4193	C4132
U4925	C4865	C4805	G4745	C4562	C4625	C4502	C4502	A4441	A4317	A4257	U4195	C4133
C4926	C4866	C4806	C4746	U4563	A4626	A4503	A4503	U4442	C4318	C4258	C4196	C4134
C4927	G4867	C4807	G4747	A4564	U4627	C4504	C4504	C4443	C4319	C4259	G4197	G4135
C4928	G4868	U4807	U4748	C4565	U4628	C4505	C4505	C4444	G4320	U4260	C4198	G4136
C4929	U4869	C4808	U4749	U4566	U4629	C4506	C4506	U4445	U4321	C4261	C4199	C4137
C4930	G4870	C4809	G4750	G4567	U4630	A4507	A4507	U4446	G4322	C4262	G4200	C4138
C4931	C4871	C4810	U4751	C4568	G4631	C4508	C4508	C4447	A4324	C4263	C4201	C4140
U4932	C4872	A4810	U4752	U4569	U4632	U4509	U4509	G4448	A4325	U4264		
C4933	C4873	C4811	U4753	C4570	C4633	A4510	A4510	C4449	G4326	U4265		
A4934	A4874	G	G4754	A4571	U4634	U4512	U4512	G4450	G4327	G4266	A4204	C4141
C4935	G4875	C	G4755	U4572	A4635	A4513	A4513	G4451	C4328	A4267	A4205	C4142
G4936	U4876	G	C4756	C4573	U4636	A4514	A4514	U4452	G4329	A4268	C4206	G4143
C4937	C4877	C	U4757	U4574	U4637	G4515	G4515	A4390	G4330	C4270	C4207	C4144
A4938	C4878	C	U4758	G4575	U4638	G4516	G4516	C4387	G4331	A4271	G4208	C4145
C4939	C4879	C	C4759	G4576	U4639	A4517	A4517	A4388	G4332	G4272	G4209	C4146
C4940	C4880	C	C4760	G4577	C4640	A4518	A4518	U4394	C4333	A4273	C4211	G4147
C4941	U4881	G	U4761	U4578	U4641	A4519	A4519	U4395	C4334	A4274	C4212	C4148
C4942	C4882	G	U4762	U4579	U4642	C4520	C4520	A4396	C4335	G4275	A4213	C4149
C4943	C4883	C	U4763	U4580	G4643	U4521	U4521	A4397	C4336	G4276	C4214	C4150
A4944	G4884	C	A4764	C4581	G4644	G4522	G4522	C4398	C4337	G4277	C4215	G4151
C4945	U4885	G	C4765	G4582	C4645	C4523	C4523		C4338	G4278	G4216	C4152
C4946	U4886	G	U4766	U4583	U4646	A4524	A4524		A4339	A4279	G4217	C4153
U4947	C4887	G	C4767	G4584	U4647	C4525	C4525		U4340	A4280	U4218	C4154
C4948	U4888	C	G4768	U4585	A4648	U4526	U4526		C4341	A4281	C4219	C4155
C4949	G4889	C	U4769	G4586	G4649	G4527	G4527		C4342	A4282	A4220	G4156
C4950	C4890	C	U4770	U4587	U4650	U4528	U4528		U4343	G4283	C4221	A4157
U4951	G4891	G	C4771	A4588	A4651	C4529	C4529		U4344	C4284	G4222	C4158
C4952	A4892	C	U4772	U4589	G4652	U4530	U4530		U4345	U4285	C4223	C4159
C4953	A4893	C	C4773	C4590	C4653	U4531	U4531		U4346	C4286	A4224	C4160
C4954	A4894	C	C4774	C4591	C4654	U4532	U4532		G4347	G4287	G4225	C4161
C4955	C4895	G	U4775	U4592	A4655	U4533	U4533		C4348	C4288	U4163	C4162
A4956	G4896	C	C4776	G4593	U4656	A4534	A4534		C4349	U4289	C4164	C4163
C4957	G4897	C	U4777	U4594	U4657	G4535	G4535			U4290	C4165	C4166
C4958	U4898	C	G4778	C4595	G4658	A4536	A4536			G4291	C4230	G4167
C4959	G4899	C	C4779	U4596	U4659	C4537	C4537			A4292	C4231	C4168
C4960	C4900	C	U4780	A4597	C4660	C4538	C4538			U4293	U4232	C4169
C4901	G4901	C	G4781	A4598	U4601	U4539	U4539			C4294	A4233	C4170
C4902	C4902	C	U4782	U4602	A4602	C4540	C4540			U4295	G4235	A4171
C4903	G4903	C	A4783	A4603	G4603	C4541	C4541			U4296	G4236	C4172
C4904	C4904	C	C4784	G4604	U4604	U4542	U4542			C4297	C4237	C4173
C4905	U4905	C	U4785	G4605	C4605	G4543	G4543			U4298	G4238	U4174
C4906	G4906	C	C4786	G4606	U4606	A4544	A4544			U4300		C4241
C4907	U4907	C	U4787	G4607	A4607	G4545	G4545			U4301	C4242	C4175
C4908	C4908	C	C4788	U4608	G4608	A4546	A4546			C4302	C4243	C4176
C4909	G4909	C	U4789	G4609	C4609	C4547	C4547			C4303	C4244	C4177
C4910	C4910	C	G4790	A4610	A4610	A4548	A4548			A4304	A4245	A4178
C4911	U4911	C	U4791	A4611	C4611	G4549	G4549			G4305	G4246	U4181
C4912	G4912	C	G4792	C4612	U4612	U4550	U4550			U4306	G4247	G4182
C4913	C4913	C	C4793	C4613	U4613	U4551	U4551			A4307	C4248	C4183
C4914	U4914	C	U4794	G4614	U4614	A4552	A4552			C4308	G4249	C4184
C4915	G4915	C	G4795	C4615	U4615	G4553	G4553			C4309	U4372	C4185
C4916	C4916	C	U4796	G4616	U4616	U4554	U4554			A4310	G4250	A4186
C4917	U4917	C	G4797	U4617	G4617	U4555	U4555			A4311	C4251	A4187
C4918	G4918	C	C4798	G4618	U4618	U4556	U4556			U4312	C4252	U4188
C4919	U4919	C	U4799	U4619	U4619	U4557	U4557			U4313	G4253	U4189
C4920	C4920	C	G4799	U4620	U4620	U4558	U4558			C4314	G4254	U4190
C4921	U4921	C	C4799	C4621	A4621	U4559	U4559					C4191
C4922	C4922	C	G4799	A4622	A4622							



• Molecule 86: 5S ribosomal RNA



• Molecule 87: 5.8S ribosomal RNA



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	343343	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	each subvolume	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	90000	Depositor
Image detector	FEI EAGLE (4k x 4k)	Depositor
Maximum map value	3.075	Depositor
Minimum map value	-0.773	Depositor
Average map value	0.080	Depositor
Map value standard deviation	0.258	Depositor
Recommended contour level	0.7	Depositor
Map size ($\text{\AA}$)	309.375, 339.07498, 322.9875	wwPDB
Map dimensions	274, 250, 261	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.2375, 1.2375, 1.2375	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	Az	1.57	58/6804 (0.9%)	2.03	247/9189 (2.7%)
2	Ag	1.28	12/2493 (0.5%)	1.86	80/3394 (2.4%)
3	AU	1.22	7/832 (0.8%)	2.35	53/1117 (4.7%)
4	AK	1.72	19/851 (2.2%)	2.31	62/1147 (5.4%)
5	AO	0.88	7/1029 (0.7%)	1.54	23/1380 (1.7%)
6	AX	1.48	16/1124 (1.4%)	1.97	37/1500 (2.5%)
7	AM	1.37	6/970 (0.6%)	1.78	28/1300 (2.2%)
8	AS	1.76	25/1157 (2.2%)	2.17	60/1548 (3.9%)
9	Ad	0.97	2/455 (0.4%)	1.24	3/603 (0.5%)
10	AN	0.99	8/1232 (0.6%)	1.27	15/1656 (0.9%)
11	AL	1.44	13/1319 (1.0%)	1.99	56/1761 (3.2%)
12	AR	1.60	17/1031 (1.6%)	1.99	47/1383 (3.4%)
13	AP	1.03	8/1081 (0.7%)	1.84	52/1440 (3.6%)
14	AT	1.32	9/1119 (0.8%)	1.73	28/1499 (1.9%)
15	AB	0.93	9/1774 (0.5%)	1.64	47/2372 (2.0%)
16	AA	1.05	14/1679 (0.8%)	1.61	44/2283 (1.9%)
17	AV	1.92	12/631 (1.9%)	2.16	39/844 (4.6%)
18	AY	1.15	6/1040 (0.6%)	1.82	37/1382 (2.7%)
19	AZ	1.17	6/604 (1.0%)	1.88	30/810 (3.7%)
20	Aa	1.37	11/863 (1.3%)	2.27	32/1159 (2.8%)
21	Ab	1.26	7/673 (1.0%)	2.20	33/902 (3.7%)
22	Ac	1.05	4/508 (0.8%)	1.76	19/680 (2.8%)
23	AD	1.56	9/1793 (0.5%)	1.96	54/2414 (2.2%)
24	Ae	2.11	11/474 (2.3%)	2.19	23/623 (3.7%)
25	Af	1.21	3/593 (0.5%)	2.01	35/786 (4.5%)
26	AJ	1.86	27/1522 (1.8%)	2.13	76/2031 (3.7%)
27	AE	0.90	8/2126 (0.4%)	1.48	47/2859 (1.6%)
28	AC	1.47	24/1788 (1.3%)	1.98	65/2414 (2.7%)
29	AG	1.40	29/1946 (1.5%)	1.85	55/2590 (2.1%)
30	AF	1.28	10/1531 (0.7%)	1.77	40/2059 (1.9%)
31	AH	1.47	20/1553 (1.3%)	2.04	61/2079 (2.9%)
32	AW	1.09	4/1051 (0.4%)	1.38	15/1406 (1.1%)
33	AI	1.58	22/1715 (1.3%)	1.97	51/2287 (2.2%)
34	AQ	0.84	1/1142 (0.1%)	1.67	40/1528 (2.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
35	Ah	2.08	13/572 (2.3%)	2.89	40/752 (5.3%)
36	B2	1.92	1389/42821 (3.2%)	1.95	2191/66606 (3.3%)
37	BC	1.86	61/1795 (3.4%)	1.81	71/2798 (2.5%)
38	Cz	2.35	26/1768 (1.5%)	2.53	72/2368 (3.0%)
39	Cq	1.45	44/2176 (2.0%)	1.91	89/2951 (3.0%)
40	CK	2.30	34/1257 (2.7%)	3.02	86/1697 (5.1%)
41	CO	1.15	7/1687 (0.4%)	1.38	23/2257 (1.0%)
42	CL	1.35	20/1732 (1.2%)	2.10	88/2315 (3.8%)
43	CV	1.02	7/1003 (0.7%)	1.25	7/1345 (0.5%)
44	CM	1.32	15/1161 (1.3%)	1.88	50/1552 (3.2%)
45	Ca	1.36	12/1191 (1.0%)	1.83	35/1591 (2.2%)
46	CN	1.01	10/1746 (0.6%)	1.42	35/2338 (1.5%)
47	CI	1.69	23/1751 (1.3%)	1.83	71/2340 (3.0%)
48	CD	1.07	12/2398 (0.5%)	1.83	80/3210 (2.5%)
49	CQ	1.82	33/1545 (2.1%)	2.23	62/2062 (3.0%)
50	CR	1.37	9/1596 (0.6%)	1.54	29/2109 (1.4%)
51	CA	0.94	9/1995 (0.5%)	1.31	20/2674 (0.7%)
52	CS	1.51	26/1493 (1.7%)	2.19	84/2003 (4.2%)
53	CT	1.82	28/1326 (2.1%)	2.24	73/1770 (4.1%)
54	CP	1.36	21/1259 (1.7%)	1.75	35/1689 (2.1%)
55	CU	1.27	12/935 (1.3%)	1.70	26/1253 (2.1%)
56	CX	1.71	14/1011 (1.4%)	2.13	50/1356 (3.7%)
57	CY	1.25	15/1124 (1.3%)	1.66	25/1494 (1.7%)
58	CW	1.85	31/1030 (3.0%)	2.20	53/1364 (3.9%)
59	CZ	1.34	14/1130 (1.2%)	1.89	47/1507 (3.1%)
60	Cr	2.05	40/1120 (3.6%)	2.65	94/1497 (6.3%)
61	Ch	1.08	9/1031 (0.9%)	1.77	30/1361 (2.2%)
62	Cb	1.36	8/646 (1.2%)	1.58	15/853 (1.8%)
63	CB	1.86	31/3270 (0.9%)	1.88	75/4377 (1.7%)
64	CF	1.64	19/1945 (1.0%)	1.80	48/2589 (1.9%)
65	Cc	1.29	5/787 (0.6%)	1.45	10/1057 (0.9%)
66	Cd	2.00	14/946 (1.5%)	1.98	43/1272 (3.4%)
67	Ce	1.41	18/1114 (1.6%)	1.95	38/1485 (2.6%)
68	Cf	1.68	18/895 (2.0%)	2.28	53/1198 (4.4%)
69	Cg	1.64	14/916 (1.5%)	1.96	44/1220 (3.6%)
70	Ci	1.82	11/851 (1.3%)	1.64	24/1125 (2.1%)
71	Cj	0.91	2/748 (0.3%)	1.25	11/990 (1.1%)
72	Ck	1.33	3/575 (0.5%)	1.65	18/761 (2.4%)
73	Cl	1.37	4/454 (0.9%)	2.02	11/599 (1.8%)
74	CC	1.84	63/2979 (2.1%)	2.30	190/4001 (4.7%)
75	Cm	1.29	4/435 (0.9%)	1.61	10/575 (1.7%)
76	Cn	1.10	2/241 (0.8%)	0.76	0/305
77	Cp	1.10	5/713 (0.7%)	1.23	8/946 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
78	Co	1.40	14/877 (1.6%)	1.65	21/1156 (1.8%)
79	CJ	0.68	1/1372 (0.1%)	1.13	7/1836 (0.4%)
80	CH	0.93	6/1545 (0.4%)	1.32	20/2077 (1.0%)
81	CE	2.18	86/2153 (4.0%)	3.16	257/2878 (8.9%)
82	CG	1.47	29/2006 (1.4%)	2.11	81/2697 (3.0%)
83	Cs	0.86	1/433 (0.2%)	1.07	3/592 (0.5%)
83	Ct	0.80	1/433 (0.2%)	1.15	4/592 (0.7%)
84	Cu	0.89	2/421 (0.5%)	1.27	6/566 (1.1%)
84	Cv	0.80	1/421 (0.2%)	1.15	3/566 (0.5%)
85	A5	1.95	3207/94517 (3.4%)	1.92	4567/146662 (3.1%)
86	A7	2.02	106/2880 (3.7%)	1.91	149/4489 (3.3%)
87	A8	1.89	123/3723 (3.3%)	1.91	176/5800 (3.0%)
All	All	1.76	6176/254452 (2.4%)	1.93	11092/371948 (3.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	Az	2	41
2	Ag	0	13
3	AU	0	8
4	AK	0	11
5	AO	0	1
6	AX	0	4
7	AM	0	1
8	AS	1	10
10	AN	0	4
11	AL	0	7
12	AR	1	5
13	AP	0	10
14	AT	1	6
15	AB	0	4
16	AA	0	11
17	AV	0	11
18	AY	1	6
19	AZ	0	6
20	Aa	0	3
21	Ab	0	3
23	AD	0	5
24	Ae	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
25	Af	0	6
26	AJ	1	11
27	AE	1	2
28	AC	1	7
29	AG	0	1
30	AF	0	3
31	AH	0	10
32	AW	0	2
33	AI	0	8
34	AQ	0	4
35	Ah	0	4
36	B2	6	0
37	BC	1	0
38	Cz	2	6
39	Cq	0	14
40	CK	1	8
41	CO	0	2
42	CL	0	19
43	CV	0	2
44	CM	0	8
45	Ca	1	9
46	CN	1	3
47	CI	0	13
48	CD	1	15
49	CQ	0	10
50	CR	0	2
51	CA	0	1
52	CS	0	12
53	CT	0	13
54	CP	0	2
55	CU	0	4
56	CX	0	5
57	CY	0	6
58	CW	2	11
59	CZ	1	5
60	Cr	0	14
61	Ch	1	8
62	Cb	0	3
63	CB	0	18
64	CF	1	4
65	Cc	0	3
66	Cd	0	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
67	Ce	1	5
68	Cf	0	14
69	Cg	0	4
70	Ci	0	6
71	Cj	0	1
72	Ck	0	2
74	CC	0	29
75	Cm	0	4
77	Cp	0	1
78	Co	0	4
80	CH	0	8
81	CE	5	36
82	CG	1	10
84	Cu	1	0
85	A5	7	0
All	All	42	587

All (6176) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	CB	298	LEU	CA-C	59.69	1.85	1.53
38	Cz	28	PHE	CA-C	-46.22	0.95	1.52
74	CC	348	LYS	C-N	-45.15	0.73	1.33
66	Cd	108	TYR	C-N	44.31	1.75	1.33
40	CK	2	PRO	CA-CB	41.16	2.10	1.54
63	CB	297	LYS	C-N	37.68	1.69	1.32
70	Ci	78	GLY	C-N	37.62	1.80	1.33
23	AD	5	ILE	C-N	37.57	1.82	1.33
1	Az	267	ASP	CA-C	37.53	1.88	1.52
1	Az	267	ASP	N-CA	35.78	1.77	1.46
49	CQ	6	ARG	NE-CZ	35.62	1.72	1.33
47	CI	205	PRO	C-N	34.82	1.82	1.33
1	Az	712	ASP	C-N	34.70	1.79	1.34
41	CO	202	LEU	C-N	33.77	1.80	1.33
50	CR	143	HIS	CD2-NE2	-33.31	1.01	1.37
40	CK	2	PRO	CA-C	33.10	1.82	1.52
53	CT	150	LEU	C-N	31.11	1.78	1.33
24	Ae	21	LYS	C-N	30.52	1.76	1.33
26	AJ	85	GLY	C-N	-30.26	0.95	1.33
38	Cz	28	PHE	CA-CB	30.24	1.96	1.53
26	AJ	118	GLY	C-N	28.30	1.73	1.33
85	A5	1359	G	C2'-C1'	-27.06	1.12	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Cz	210	MET	C-N	26.87	1.60	1.33
17	AV	31	SER	CA-C	26.51	1.85	1.52
81	CE	36	LYS	CA-C	25.89	1.85	1.52
38	Cz	210	MET	N-CA	23.58	1.76	1.46
64	CF	23	ARG	C-N	-23.47	1.00	1.33
74	CC	323	ARG	CA-C	-22.46	1.24	1.52
26	AJ	146	SER	C-N	22.36	1.61	1.33
33	AI	43	ILE	CA-C	-22.36	1.25	1.52
33	AI	43	ILE	C-N	22.29	1.67	1.33
40	CK	2	PRO	N-CD	21.96	1.78	1.47
47	CI	206	LEU	CA-C	-21.13	1.24	1.52
49	CQ	6	ARG	CD-NE	20.83	1.75	1.46
50	CR	143	HIS	CG-ND1	-20.74	1.15	1.38
1	Az	269	ALA	C-N	20.73	1.60	1.33
35	Ah	157	ILE	CA-C	20.56	1.78	1.52
35	Ah	294	LYS	C-N	-20.31	1.04	1.33
74	CC	86	ARG	CA-C	-20.29	1.25	1.52
82	CG	243	GLY	C-N	20.00	1.80	1.33
85	A5	1266	G	C2'-C1'	-19.94	1.23	1.53
56	CX	53	ARG	C-N	19.57	1.61	1.33
8	AS	141	ARG	C-N	19.39	1.60	1.33
32	AW	2	VAL	C-N	19.37	1.59	1.33
39	Cq	37	SER	C-N	19.16	1.58	1.33
81	CE	74	SER	CA-CB	18.83	1.85	1.53
8	AS	40	TYR	CA-C	-18.80	1.28	1.52
64	CF	183	GLY	C-N	-18.79	1.08	1.33
73	Cl	5	LYS	C-N	18.69	1.61	1.33
85	A5	1246	G	C2'-C1'	-18.65	1.25	1.53
36	B2	1326	U	C2'-C1'	-18.53	1.25	1.53
64	CF	23	ARG	CA-C	18.45	1.77	1.52
85	A5	958	G	O4'-C1'	18.43	1.69	1.41
85	A5	4870	G	C2'-C1'	-18.36	1.25	1.53
85	A5	975	C	O4'-C1'	18.28	1.69	1.41
85	A5	4606	G	C2'-C1'	-18.25	1.25	1.53
36	B2	66	G	C2'-C1'	-18.11	1.26	1.53
81	CE	74	SER	N-CA	-17.94	1.23	1.46
85	A5	2128	G	C2'-C1'	-17.88	1.26	1.53
63	CB	255	GLY	C-N	17.88	1.57	1.33
85	A5	80	C	C2'-C1'	-17.84	1.26	1.53
85	A5	1361	G	O4'-C1'	-17.80	1.15	1.41
63	CB	298	LEU	C-N	-17.76	1.09	1.33
36	B2	1507	G	O4'-C1'	-17.72	1.15	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AG	131	ARG	C-N	17.68	1.59	1.33
82	CG	35	ARG	C-N	17.67	1.75	1.33
12	AR	1	MET	CA-C	-17.46	1.16	1.52
12	AR	1	MET	C-N	-17.34	1.13	1.33
60	Cr	37	SER	C-N	17.31	1.55	1.33
85	A5	4994	G	C2'-C1'	-17.30	1.27	1.53
85	A5	1363	C	O4'-C1'	17.28	1.67	1.41
81	CE	85	LYS	CA-C	17.22	1.75	1.52
36	B2	862	A	C2'-C1'	-17.22	1.27	1.53
85	A5	2770	C	C2'-C1'	-17.22	1.27	1.53
36	B2	662	G	C2'-C1'	-17.20	1.27	1.53
12	AR	1	MET	CA-CB	17.19	1.87	1.53
60	Cr	115	SER	C-N	17.17	1.55	1.33
12	AR	1	MET	N-CA	17.17	1.78	1.46
8	AS	54	LYS	CA-C	17.12	1.75	1.52
58	CW	32	LEU	C-N	-17.11	1.13	1.33
85	A5	736	C	O4'-C1'	17.09	1.67	1.41
38	Cz	26	ARG	CD-NE	17.01	1.70	1.46
85	A5	1276	C	C2'-C1'	-16.95	1.27	1.53
36	B2	182	C	O4'-C1'	16.83	1.66	1.41
85	A5	3684	G	C2'-C1'	-16.82	1.28	1.53
85	A5	4966	A	C2'-C1'	-16.81	1.28	1.53
85	A5	4169	G	C2'-C1'	-16.79	1.28	1.53
46	CN	79	ALA	C-N	16.73	1.57	1.33
85	A5	1276	C	O4'-C1'	16.72	1.66	1.41
8	AS	54	LYS	N-CA	16.65	1.67	1.46
85	A5	1265	G	C2'-C1'	-16.58	1.28	1.53
8	AS	40	TYR	C-N	-16.49	1.09	1.33
36	B2	1311	C	C2'-C1'	-16.48	1.28	1.53
6	AX	115	ILE	CA-C	-16.46	1.39	1.53
85	A5	1929	A	C2'-C1'	-16.39	1.28	1.53
35	Ah	157	ILE	C-O	-16.30	1.04	1.24
85	A5	2427	G	O4'-C1'	16.30	1.66	1.41
17	AV	31	SER	N-CA	16.18	1.66	1.46
36	B2	531	A	C2'-C1'	-16.18	1.29	1.53
36	B2	1041	G	C2'-C1'	-16.04	1.29	1.53
85	A5	2301	G	C2'-C1'	-16.02	1.29	1.53
85	A5	2058	G	C2'-C1'	-15.93	1.29	1.53
29	AG	219	GLU	C-N	-15.92	1.09	1.33
85	A5	2097	U	O4'-C1'	15.91	1.65	1.41
85	A5	2079	G	C2'-C1'	-15.80	1.29	1.53
85	A5	1242	G	C2'-C1'	15.79	1.77	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1237	C	C2'-C1'	-15.76	1.29	1.53
74	CC	226	GLY	C-N	-15.72	1.11	1.33
85	A5	3674	G	C2'-C1'	-15.72	1.29	1.53
36	B2	145	G	C2'-C1'	-15.71	1.29	1.53
40	CK	1	MET	C-N	15.71	1.51	1.33
62	Cb	78	PRO	N-CD	15.71	1.69	1.47
28	AC	108	LYS	C-N	-15.67	1.17	1.33
12	AR	89	SER	CA-C	15.59	1.73	1.52
36	B2	296	U	C2'-C1'	-15.55	1.30	1.53
85	A5	2544	G	C2'-C1'	-15.50	1.30	1.53
23	AD	96	LEU	C-N	15.46	1.55	1.33
85	A5	2120	G	O4'-C1'	15.42	1.64	1.41
58	CW	31	PHE	C-N	-15.37	1.11	1.33
85	A5	2007	G	O4'-C1'	-15.36	1.19	1.42
63	CB	15	GLY	C-N	-15.34	1.12	1.33
86	A7	54	A	C2'-C1'	-15.27	1.30	1.53
85	A5	39	A	C2'-C1'	-15.26	1.30	1.53
20	Aa	97	PRO	C-N	15.20	1.51	1.33
40	CK	2	PRO	N-CA	-15.19	1.16	1.46
85	A5	3749	C	O4'-C1'	15.17	1.64	1.41
56	CX	53	ARG	CA-C	15.15	1.67	1.53
85	A5	4906	C	O4'-C1'	15.11	1.64	1.41
85	A5	1832	C	O4'-C1'	15.11	1.64	1.41
36	B2	1283	C	O4'-C1'	15.11	1.64	1.41
85	A5	923	C	O4'-C1'	15.07	1.64	1.41
36	B2	1331	C	C2'-C1'	-15.06	1.30	1.53
38	Cz	28	PHE	C-N	15.04	1.54	1.33
86	A7	99	G	C2'-C1'	-15.04	1.30	1.53
47	CI	206	LEU	CA-CB	15.03	1.78	1.53
85	A5	4612	C	O4'-C1'	15.00	1.64	1.41
85	A5	2670	C	O4'-C1'	14.99	1.64	1.41
36	B2	1397	U	C2'-C1'	-14.91	1.30	1.53
85	A5	688	U	C2'-C1'	-14.91	1.30	1.53
85	A5	4696	C	O4'-C1'	14.87	1.64	1.41
36	B2	399	C	O4'-C1'	14.86	1.64	1.42
36	B2	218	U	C2'-C1'	-14.86	1.31	1.53
36	B2	1476	A	O4'-C1'	-14.85	1.19	1.41
85	A5	2769	U	C2'-C1'	-14.85	1.31	1.53
36	B2	988	C	O4'-C1'	14.83	1.63	1.41
36	B2	308	G	C2'-C1'	-14.81	1.30	1.53
85	A5	2601	A	O4'-C1'	14.79	1.64	1.42
85	A5	1931	C	O4'-C1'	14.79	1.64	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1661	C	C2'-C1'	-14.79	1.31	1.53
85	A5	2576	G	C2'-C1'	-14.77	1.31	1.53
85	A5	4676	G	C2'-C1'	-14.75	1.31	1.53
85	A5	3706	C	O4'-C1'	14.72	1.63	1.41
85	A5	1359	G	O4'-C1'	14.71	1.63	1.41
55	CU	60	VAL	N-CA	-14.71	1.27	1.46
85	A5	2035	C	O4'-C1'	14.70	1.63	1.41
85	A5	1928	C	O4'-C1'	14.69	1.64	1.42
81	CE	102	GLY	C-N	14.68	1.54	1.33
85	A5	1240	G	C2'-C1'	14.68	1.75	1.53
85	A5	2763	U	C2'-C1'	-14.67	1.31	1.53
85	A5	5015	G	O4'-C1'	14.66	1.63	1.41
85	A5	4042	G	C2'-C1'	-14.65	1.31	1.53
36	B2	353	C	C2'-C1'	-14.63	1.31	1.53
86	A7	37	G	O4'-C1'	14.61	1.63	1.41
85	A5	2101	C	O4'-C1'	14.60	1.63	1.41
70	Ci	1	MET	C-N	14.56	1.54	1.33
56	CX	52	LEU	C-N	14.55	1.50	1.33
36	B2	1237	C	O4'-C1'	14.54	1.63	1.41
85	A5	2488	C	O4'-C1'	14.54	1.63	1.41
47	CI	212	LEU	N-CA	14.53	1.63	1.45
85	A5	4196	G	O4'-C1'	14.52	1.63	1.41
69	Cg	21	ARG	C-N	14.52	1.53	1.33
85	A5	322	C	O4'-C1'	14.51	1.63	1.41
36	B2	1471	C	O4'-C1'	14.51	1.63	1.41
36	B2	640	A	C2'-C1'	-14.48	1.31	1.53
85	A5	2395	A	O4'-C1'	14.47	1.63	1.42
45	Ca	109	TYR	CA-C	-14.47	1.41	1.52
85	A5	303	C	O4'-C1'	14.45	1.63	1.41
82	CG	103	ARG	C-N	14.45	1.67	1.33
36	B2	183	G	C2'-C1'	-14.44	1.31	1.53
36	B2	636	C	O4'-C1'	14.43	1.63	1.41
85	A5	5032	C	C2'-C1'	-14.43	1.31	1.53
60	Cr	36	ASN	CA-C	14.40	1.70	1.52
85	A5	1268	G	C2'-C1'	-14.39	1.31	1.53
85	A5	1483	C	O4'-C1'	14.38	1.63	1.41
81	CE	36	LYS	C-N	14.37	1.61	1.34
85	A5	1641	G	O4'-C1'	14.37	1.63	1.42
26	AJ	164	PRO	C-N	14.37	1.53	1.33
85	A5	1568	C	O4'-C1'	14.37	1.63	1.41
85	A5	2390	G	C2'-C1'	-14.36	1.31	1.53
85	A5	1680	G	C2'-C1'	-14.35	1.31	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	622	C	C2'-C1'	-14.31	1.31	1.53
85	A5	2018	C	O4'-C1'	14.31	1.63	1.41
36	B2	1411	G	C2'-C1'	-14.31	1.31	1.53
36	B2	1743	G	C2'-C1'	-14.28	1.31	1.53
85	A5	1291	G	C2'-C1'	-14.27	1.31	1.53
85	A5	3893	C	O4'-C1'	14.27	1.63	1.41
85	A5	1775	A	O4'-C1'	14.22	1.62	1.41
85	A5	2022	C	O4'-C1'	14.22	1.62	1.41
85	A5	308	G	O4'-C1'	-14.20	1.20	1.42
69	Cg	46	CYS	CA-CB	-14.18	1.30	1.53
85	A5	4291	G	C2'-C1'	-14.18	1.31	1.53
85	A5	174	C	C2'-C1'	-14.16	1.32	1.53
85	A5	1783	C	O4'-C1'	14.16	1.62	1.41
85	A5	2289	C	O4'-C1'	14.16	1.62	1.41
36	B2	1312	G	C2'-C1'	-14.16	1.31	1.53
67	Ce	17	THR	CA-C	14.15	1.71	1.52
36	B2	960	U	C2'-C1'	-14.15	1.32	1.53
36	B2	1738	C	O4'-C1'	14.12	1.62	1.41
85	A5	1109	C	O4'-C1'	14.12	1.62	1.41
85	A5	2461	G	O4'-C1'	14.11	1.62	1.41
36	B2	621	C	O4'-C1'	14.11	1.62	1.41
85	A5	384	A	O4'-C1'	14.08	1.62	1.41
23	AD	4	GLN	C-N	-14.08	1.20	1.33
50	CR	143	HIS	ND1-CE1	14.07	1.46	1.32
36	B2	614	C	O4'-C1'	14.04	1.63	1.42
36	B2	694	G	C2'-C1'	-14.01	1.32	1.53
54	CP	5	SER	CA-C	-13.99	1.34	1.52
85	A5	292	G	C2'-C1'	-13.99	1.32	1.53
36	B2	699	C	O4'-C1'	13.99	1.62	1.41
85	A5	515	C	O4'-C1'	13.98	1.62	1.41
36	B2	1047	C	O4'-C1'	13.98	1.62	1.41
85	A5	1519	C	O4'-C1'	13.96	1.62	1.41
85	A5	972	C	O4'-C1'	13.95	1.62	1.41
85	A5	174	C	O4'-C1'	13.94	1.62	1.41
85	A5	3967	G	C2'-C1'	-13.94	1.32	1.53
36	B2	286	U	O4'-C1'	13.94	1.62	1.41
36	B2	1861	G	C2'-C1'	-13.92	1.32	1.53
37	BC	70	C	O4'-C1'	13.92	1.62	1.41
36	B2	1312	G	O4'-C1'	13.90	1.62	1.42
85	A5	1245	C	C2'-C1'	-13.88	1.32	1.53
36	B2	400	C	O4'-C1'	13.84	1.62	1.42
58	CW	73	ARG	CA-C	13.83	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1163	C	C2'-C1'	-13.80	1.32	1.53
85	A5	4110	C	O4'-C1'	13.79	1.62	1.41
74	CC	150	LEU	C-N	-13.78	1.08	1.34
86	A7	68	C	O4'-C1'	13.77	1.62	1.41
85	A5	5050	C	O4'-C1'	13.77	1.62	1.41
85	A5	4152	G	C2'-C1'	-13.76	1.32	1.53
85	A5	2902	G	O4'-C1'	13.76	1.62	1.41
85	A5	1629	G	C2'-C1'	-13.76	1.32	1.53
85	A5	958	G	C2'-C1'	-13.75	1.32	1.53
36	B2	1752	C	O4'-C1'	13.73	1.62	1.41
85	A5	2761	U	O4'-C1'	13.73	1.62	1.41
36	B2	1500	G	C2'-C1'	-13.72	1.32	1.53
85	A5	674	G	C2'-C1'	-13.71	1.32	1.53
85	A5	1648	C	O4'-C1'	13.70	1.62	1.41
85	A5	448	G	C2'-C1'	-13.68	1.32	1.53
87	A8	112	G	C2'-C1'	-13.68	1.32	1.53
36	B2	456	C	O4'-C1'	13.66	1.62	1.41
36	B2	1231	C	C2'-C1'	-13.65	1.32	1.53
85	A5	2461	G	C2'-C1'	-13.65	1.32	1.53
85	A5	3594	C	O4'-C1'	13.65	1.62	1.41
36	B2	1231	C	O4'-C1'	13.64	1.62	1.41
85	A5	1367	C	C2'-C1'	13.62	1.73	1.53
36	B2	295	C	O4'-C1'	13.62	1.62	1.41
85	A5	2770	C	O4'-C1'	13.62	1.62	1.41
36	B2	1309	C	O4'-C1'	13.61	1.62	1.41
85	A5	1308	C	O4'-C1'	13.60	1.62	1.41
85	A5	1593	A	C2'-C1'	-13.59	1.32	1.53
85	A5	940	C	O4'-C1'	13.59	1.62	1.41
85	A5	298	G	C2'-C1'	-13.58	1.32	1.53
85	A5	4871	C	O4'-C1'	-13.58	1.21	1.42
36	B2	1016	U	O4'-C1'	13.57	1.62	1.42
85	A5	4943	A	C2'-C1'	-13.57	1.32	1.53
36	B2	1198	G	C2'-C1'	-13.57	1.32	1.53
85	A5	264	C	O4'-C1'	13.57	1.62	1.41
85	A5	370	U	C2'-C1'	-13.56	1.33	1.53
85	A5	2654	C	O4'-C1'	13.55	1.61	1.41
85	A5	1486	C	O4'-C1'	13.55	1.61	1.41
85	A5	4318	C	O4'-C1'	13.53	1.61	1.41
45	Ca	120	GLN	CA-C	-13.51	1.36	1.53
85	A5	4120	U	O4'-C1'	13.49	1.62	1.42
87	A8	88	A	O4'-C1'	13.48	1.61	1.41
85	A5	368	C	C2'-C1'	-13.47	1.33	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	604	A	O4'-C1'	13.47	1.61	1.41
85	A5	1534	A	O4'-C1'	13.47	1.62	1.42
1	Az	267	ASP	C-N	13.46	1.50	1.34
36	B2	1436	C	O4'-C1'	13.45	1.61	1.41
85	A5	3771	C	O4'-C1'	13.45	1.61	1.41
36	B2	1772	C	O4'-C1'	13.43	1.61	1.41
36	B2	528	A	C2'-C1'	-13.43	1.33	1.53
33	AI	3	ILE	CA-CB	-13.41	1.38	1.54
39	Cq	263	GLU	CA-C	13.41	1.70	1.52
81	CE	115	TYR	C-N	13.40	1.61	1.33
86	A7	101	A	C2'-C1'	-13.39	1.33	1.53
36	B2	798	G	O4'-C1'	13.39	1.62	1.42
35	Ah	142	LEU	CA-C	-13.38	1.36	1.53
36	B2	179	C	O4'-C1'	13.37	1.61	1.41
85	A5	2063	G	C2'-C1'	-13.37	1.33	1.53
85	A5	4417	C	O4'-C1'	13.36	1.61	1.41
85	A5	929	A	O4'-C1'	13.35	1.61	1.41
36	B2	734	C	O4'-C1'	13.35	1.61	1.41
14	AT	4	VAL	C-N	13.34	1.52	1.33
85	A5	643	C	O4'-C1'	13.34	1.61	1.41
86	A7	103	A	C2'-C1'	-13.34	1.33	1.53
36	B2	745	C	O4'-C1'	13.33	1.61	1.41
85	A5	2336	G	C2'-C1'	-13.33	1.33	1.53
85	A5	2392	C	O4'-C1'	13.33	1.61	1.41
85	A5	1267	C	O4'-C1'	13.31	1.61	1.42
68	Cf	106	TYR	CA-C	-13.31	1.38	1.52
36	B2	1292	C	O4'-C1'	13.30	1.61	1.41
53	CT	75	VAL	C-N	13.29	1.59	1.33
85	A5	499	G	O4'-C1'	13.29	1.61	1.41
85	A5	919	C	O4'-C1'	13.28	1.61	1.41
85	A5	3708	C	O4'-C1'	13.27	1.61	1.41
60	Cr	91	SER	CA-C	-13.26	1.33	1.52
85	A5	2825	A	O4'-C1'	13.26	1.61	1.41
81	CE	85	LYS	N-CA	-13.26	1.29	1.46
36	B2	228	C	O4'-C1'	13.25	1.61	1.42
85	A5	459	C	O4'-C1'	13.25	1.61	1.41
85	A5	1929	A	O4'-C1'	13.24	1.61	1.41
36	B2	913	A	O4'-C1'	13.22	1.61	1.42
85	A5	3861	A	O4'-C1'	13.22	1.61	1.41
85	A5	1532	G	C2'-C1'	-13.21	1.33	1.53
36	B2	1780	G	C2'-C1'	-13.21	1.33	1.53
85	A5	1855	G	C2'-C1'	-13.21	1.33	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4335	C	O4'-C1'	13.18	1.61	1.42
85	A5	2677	G	C2'-C1'	-13.17	1.33	1.53
85	A5	4612	C	C2'-C1'	-13.16	1.33	1.53
85	A5	973	G	C2'-C1'	-13.16	1.33	1.53
85	A5	1662	C	O4'-C1'	13.16	1.61	1.41
85	A5	2109	G	C2'-C1'	-13.16	1.33	1.53
85	A5	4710	C	O4'-C1'	13.16	1.61	1.41
36	B2	184	G	C2'-C1'	-13.15	1.33	1.53
36	B2	1241	A	O4'-C1'	13.15	1.61	1.41
85	A5	1899	G	C2'-C1'	-13.15	1.33	1.53
6	AX	128	VAL	CA-CB	-13.14	1.40	1.54
36	B2	1226	G	C2'-C1'	-13.14	1.33	1.53
85	A5	181	C	C2'-C1'	-13.14	1.33	1.53
85	A5	1313	C	O4'-C1'	13.14	1.61	1.42
85	A5	210	C	O4'-C1'	13.13	1.61	1.42
36	B2	217	A	O4'-C1'	13.13	1.61	1.41
85	A5	4064	C	O4'-C1'	13.12	1.61	1.41
36	B2	1230	C	C2'-C1'	-13.11	1.33	1.53
85	A5	126	C	C2'-C1'	-13.10	1.33	1.53
85	A5	1769	G	C2'-C1'	-13.10	1.33	1.53
29	AG	170	ARG	CA-C	-13.10	1.36	1.52
36	B2	1397	U	O4'-C1'	13.10	1.61	1.42
85	A5	678	C	O4'-C1'	13.09	1.61	1.41
87	A8	88	A	C2'-C1'	-13.09	1.33	1.53
85	A5	1913	C	O4'-C1'	13.09	1.61	1.41
29	AG	130	PRO	C-N	-13.08	1.16	1.33
85	A5	2351	C	O4'-C1'	13.08	1.61	1.41
85	A5	4050	A	O4'-C1'	13.08	1.61	1.41
85	A5	2563	C	O4'-C1'	13.05	1.61	1.41
85	A5	1593	A	O4'-C1'	13.05	1.61	1.41
85	A5	654	C	O4'-C1'	13.04	1.61	1.41
85	A5	2439	G	C2'-C1'	-13.04	1.33	1.53
85	A5	1280	C	C2'-C1'	-13.03	1.33	1.53
81	CE	125	LEU	C-N	-13.03	1.18	1.33
85	A5	2814	C	O4'-C1'	13.03	1.61	1.42
36	B2	1529	C	O4'-C1'	13.03	1.61	1.41
85	A5	2084	C	O4'-C1'	13.00	1.61	1.41
85	A5	4259	C	O4'-C1'	13.00	1.61	1.41
36	B2	863	U	C2'-C1'	-13.00	1.33	1.53
85	A5	1722	C	O4'-C1'	12.99	1.61	1.41
85	A5	2547	G	C2'-C1'	-12.98	1.33	1.53
61	Ch	114	TYR	C-N	12.98	1.64	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4402	C	O4'-C1'	12.97	1.61	1.41
85	A5	1237	C	C2'-C1'	-12.97	1.33	1.53
80	CH	41	ILE	CA-CB	-12.96	1.36	1.54
36	B2	453	C	C2'-C1'	-12.95	1.33	1.53
36	B2	1311	C	O4'-C1'	12.94	1.61	1.41
85	A5	2427	G	C2'-C1'	-12.94	1.33	1.53
85	A5	364	G	C2'-C1'	-12.94	1.33	1.53
85	A5	1285	U	C2'-C1'	-12.93	1.33	1.53
85	A5	1271	G	C2'-C1'	-12.92	1.33	1.53
85	A5	4672	A	C2'-C1'	-12.91	1.33	1.53
85	A5	5018	C	O4'-C1'	12.91	1.61	1.41
85	A5	499	G	C2'-C1'	-12.90	1.33	1.53
85	A5	1457	G	C2'-C1'	-12.90	1.33	1.53
26	AJ	187	ALA	CA-C	12.90	1.68	1.53
87	A8	153	C	C2'-C1'	-12.89	1.34	1.53
85	A5	1912	G	C2'-C1'	-12.89	1.34	1.53
6	AX	24	ASP	CA-C	-12.88	1.34	1.52
85	A5	4054	C	O4'-C1'	12.87	1.60	1.41
1	Az	76	SER	C-N	12.86	1.51	1.33
85	A5	1846	G	O4'-C1'	12.85	1.60	1.41
36	B2	1708	C	O4'-C1'	12.85	1.60	1.41
53	CT	24	VAL	CA-C	-12.85	1.36	1.52
17	AV	78	ILE	C-N	12.85	1.51	1.33
18	AY	91	LEU	C-N	12.84	1.50	1.33
85	A5	2458	C	O4'-C1'	12.83	1.60	1.41
36	B2	842	C	O4'-C1'	12.82	1.60	1.41
42	CL	163	LYS	C-N	12.82	1.52	1.33
36	B2	1417	C	O4'-C1'	12.81	1.60	1.41
85	A5	126	C	O4'-C1'	12.81	1.60	1.41
85	A5	4211	C	O4'-C1'	12.80	1.60	1.41
85	A5	971	U	C2'-C1'	12.80	1.72	1.53
85	A5	4130	C	O4'-C1'	12.79	1.60	1.41
36	B2	1410	C	O4'-C1'	12.79	1.60	1.41
85	A5	1974	U	O4'-C1'	12.79	1.61	1.42
85	A5	2366	A	O4'-C1'	12.78	1.60	1.41
36	B2	616	A	C2'-C1'	-12.78	1.34	1.53
36	B2	548	C	O4'-C1'	12.77	1.60	1.41
85	A5	4505	C	O4'-C1'	12.76	1.60	1.41
36	B2	1203	G	C2'-C1'	-12.76	1.34	1.53
85	A5	726	G	C2'-C1'	-12.75	1.34	1.53
85	A5	504	G	C2'-C1'	-12.74	1.34	1.53
78	Co	34	TYR	C-N	12.73	1.51	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1014	G	C2'-C1'	-12.73	1.34	1.53
85	A5	4771	C	O4'-C1'	12.72	1.60	1.41
47	CI	212	LEU	CA-C	12.72	1.70	1.53
36	B2	41	G	C2'-C1'	-12.71	1.33	1.53
36	B2	1293	A	O4'-C1'	12.71	1.60	1.41
85	A5	735	G	O4'-C1'	12.71	1.60	1.41
36	B2	974	C	O4'-C1'	12.70	1.60	1.41
23	AD	4	GLN	N-CA	-12.70	1.29	1.46
85	A5	3683	C	O4'-C1'	12.70	1.60	1.42
85	A5	4596	C	O4'-C1'	12.70	1.60	1.41
36	B2	1094	C	O4'-C1'	12.69	1.60	1.41
85	A5	4124	G	C2'-C1'	-12.69	1.34	1.53
85	A5	1455	G	O4'-C1'	12.67	1.60	1.41
66	Cd	105	LEU	C-N	-12.66	1.16	1.33
85	A5	7	C	O4'-C1'	12.65	1.60	1.41
36	B2	1234	C	O4'-C1'	12.64	1.60	1.41
85	A5	279	A	O4'-C1'	12.64	1.60	1.42
85	A5	2110	C	O4'-C1'	12.63	1.60	1.42
86	A7	102	U	C2'-C1'	-12.62	1.34	1.53
74	CC	54	VAL	C-N	-12.61	1.17	1.33
36	B2	1218	C	C2'-C1'	-12.61	1.34	1.53
85	A5	182	G	C2'-C1'	-12.59	1.34	1.53
36	B2	1592	C	O4'-C1'	12.58	1.60	1.41
85	A5	5032	C	O4'-C1'	12.57	1.60	1.41
85	A5	922	C	C2'-C1'	-12.55	1.34	1.53
85	A5	1914	C	O4'-C1'	12.55	1.60	1.41
87	A8	115	G	C2'-C1'	-12.55	1.34	1.53
85	A5	2319	C	O4'-C1'	12.55	1.60	1.41
85	A5	2851	G	C2'-C1'	-12.54	1.34	1.53
85	A5	1183	C	O4'-C1'	12.54	1.60	1.41
87	A8	6	C	O4'-C1'	12.54	1.60	1.41
36	B2	877	C	O4'-C1'	12.53	1.60	1.41
85	A5	1196	G	C2'-C1'	-12.52	1.34	1.53
85	A5	2571	C	O4'-C1'	12.51	1.60	1.41
85	A5	939	G	C2'-C1'	-12.50	1.34	1.53
85	A5	2749	C	O4'-C1'	12.50	1.60	1.41
85	A5	2670	C	C2'-C1'	-12.49	1.34	1.53
85	A5	4729	A	O4'-C1'	12.48	1.60	1.42
36	B2	1704	C	O4'-C1'	12.47	1.60	1.41
85	A5	1077	C	C2'-C1'	-12.47	1.34	1.53
36	B2	441	C	O4'-C1'	12.46	1.60	1.41
85	A5	4114	C	O4'-C1'	12.45	1.60	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4887	C	O4'-C1'	12.44	1.60	1.41
87	A8	11	C	O4'-C1'	12.44	1.60	1.41
50	CR	57	VAL	N-CA	-12.43	1.31	1.46
85	A5	207	G	C2'-C1'	-12.43	1.34	1.53
85	A5	1690	C	O4'-C1'	12.42	1.60	1.41
85	A5	4518	A	O4'-C1'	12.41	1.60	1.42
85	A5	27	C	O4'-C1'	12.41	1.60	1.41
36	B2	1048	G	C2'-C1'	-12.41	1.34	1.53
1	Az	768	GLY	C-N	12.40	1.49	1.33
85	A5	243	A	C2'-C1'	-12.40	1.34	1.53
36	B2	1148	A	O4'-C1'	-12.40	1.23	1.42
85	A5	2335	C	O4'-C1'	12.39	1.60	1.41
85	A5	4659	G	C2'-C1'	-12.39	1.34	1.53
29	AG	131	ARG	N-CA	-12.39	1.30	1.46
85	A5	4238	G	C2'-C1'	-12.39	1.34	1.53
36	B2	218	U	O4'-C1'	12.38	1.60	1.41
36	B2	448	A	O4'-C1'	-12.38	1.23	1.42
85	A5	4080	C	O4'-C1'	12.38	1.60	1.41
85	A5	1840	G	C2'-C1'	-12.38	1.34	1.53
85	A5	5057	C	O4'-C1'	12.37	1.60	1.41
85	A5	1880	G	C2'-C1'	-12.36	1.34	1.53
85	A5	2689	C	O4'-C1'	12.36	1.60	1.41
36	B2	1352	G	C2'-C1'	-12.36	1.34	1.53
86	A7	57	C	C2'-C1'	-12.36	1.34	1.53
85	A5	4124	G	O4'-C1'	12.35	1.60	1.41
81	CE	37	PRO	N-CA	12.33	1.68	1.47
85	A5	470	A	C2'-C1'	-12.33	1.34	1.53
85	A5	3909	C	O4'-C1'	12.33	1.60	1.41
36	B2	1380	C	O4'-C1'	12.32	1.60	1.41
87	A8	94	G	O4'-C1'	12.31	1.60	1.42
40	CK	130	LYS	CA-C	-12.31	1.35	1.52
85	A5	1368	A	C2'-C1'	-12.31	1.34	1.53
85	A5	1677	U	O4'-C1'	12.31	1.60	1.41
85	A5	2771	G	C2'-C1'	-12.30	1.34	1.53
85	A5	1806	G	C2'-C1'	-12.29	1.34	1.53
86	A7	34	C	O4'-C1'	12.29	1.60	1.41
31	AH	111	LYS	CA-C	-12.28	1.34	1.53
36	B2	842	C	C2'-C1'	-12.28	1.34	1.53
85	A5	299	C	C2'-C1'	-12.27	1.34	1.53
29	AG	36	VAL	CA-CB	-12.27	1.37	1.55
36	B2	1262	C	C2'-C1'	-12.26	1.34	1.53
85	A5	4347	G	C2'-C1'	-12.26	1.34	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	3815	G	C2'-C1'	-12.26	1.34	1.53
36	B2	188	C	O4'-C1'	12.25	1.60	1.41
36	B2	1737	G	C2'-C1'	-12.25	1.34	1.53
36	B2	35	C	O4'-C1'	12.25	1.60	1.41
36	B2	144	U	O4'-C1'	12.24	1.60	1.41
85	A5	1504	G	O4'-C1'	12.24	1.60	1.41
36	B2	856	C	O4'-C1'	12.23	1.59	1.41
85	A5	2373	C	O4'-C1'	12.23	1.59	1.41
36	B2	1743	G	O4'-C1'	12.22	1.59	1.41
85	A5	4088	C	O4'-C1'	12.22	1.59	1.41
85	A5	1208	G	C2'-C1'	-12.21	1.35	1.53
85	A5	273	U	O4'-C1'	12.20	1.59	1.41
85	A5	3815	G	O4'-C1'	12.20	1.59	1.41
85	A5	464	G	C2'-C1'	-12.19	1.35	1.53
85	A5	4341	C	O4'-C1'	12.18	1.59	1.41
36	B2	933	G	C2'-C1'	-12.17	1.35	1.53
36	B2	1218	C	O4'-C1'	12.16	1.59	1.41
36	B2	1188	A	O4'-C1'	12.16	1.59	1.41
85	A5	4921	C	O4'-C1'	12.16	1.59	1.41
85	A5	3744	G	C2'-C1'	-12.15	1.35	1.53
85	A5	2828	U	O4'-C1'	12.15	1.59	1.41
36	B2	1696	C	O4'-C1'	12.15	1.59	1.41
85	A5	4774	C	C2'-C1'	-12.13	1.35	1.53
36	B2	1007	C	O4'-C1'	12.12	1.59	1.41
85	A5	2423	A	O4'-C1'	12.12	1.59	1.41
85	A5	4308	C	O4'-C1'	12.12	1.59	1.41
36	B2	834	C	O4'-C1'	12.12	1.59	1.41
85	A5	4593	C	O4'-C1'	12.12	1.59	1.41
36	B2	94	G	C2'-C1'	-12.10	1.35	1.53
38	Cz	100	VAL	N-CA	12.10	1.61	1.46
85	A5	2653	C	C2'-C1'	-12.10	1.35	1.53
85	A5	3752	C	O4'-C1'	12.09	1.59	1.41
85	A5	4896	G	C2'-C1'	-12.09	1.35	1.53
85	A5	1731	C	O4'-C1'	12.09	1.59	1.41
85	A5	663	G	C2'-C1'	-12.09	1.35	1.53
85	A5	3812	C	O4'-C1'	12.08	1.59	1.41
36	B2	805	U	O4'-C1'	12.07	1.59	1.41
37	BC	65	C	O4'-C1'	12.07	1.59	1.41
85	A5	5050	C	C2'-C1'	-12.07	1.35	1.53
36	B2	848	U	C2'-C1'	-12.07	1.35	1.53
36	B2	1437	C	O4'-C1'	12.05	1.59	1.41
36	B2	739	C	O4'-C1'	12.05	1.59	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2380	G	C2'-C1'	-12.05	1.35	1.53
85	A5	194	C	O4'-C1'	12.05	1.59	1.41
36	B2	626	G	O4'-C1'	12.04	1.59	1.41
85	A5	200	U	O4'-C1'	12.04	1.59	1.41
85	A5	4517	A	O4'-C1'	12.04	1.59	1.41
36	B2	445	A	C2'-C1'	-12.04	1.35	1.53
85	A5	449	C	C2'-C1'	-12.03	1.35	1.53
64	CF	224	THR	CA-CB	-12.03	1.33	1.53
85	A5	2293	U	C2'-C1'	-12.02	1.35	1.53
87	A8	56	G	C2'-C1'	-12.02	1.35	1.53
36	B2	1329	U	C2'-C1'	-12.02	1.35	1.53
55	CU	60	VAL	C-N	12.01	1.50	1.33
85	A5	3678	G	O4'-C1'	12.00	1.59	1.42
85	A5	167	C	C2'-C1'	-12.00	1.35	1.53
13	AP	122	THR	CA-CB	11.99	1.72	1.53
85	A5	2463	G	C2'-C1'	-11.99	1.35	1.53
85	A5	1411	C	O4'-C1'	11.99	1.59	1.41
36	B2	615	C	O4'-C1'	11.98	1.59	1.41
85	A5	1847	C	O4'-C1'	11.98	1.59	1.41
36	B2	1741	U	O4'-C1'	11.97	1.59	1.41
85	A5	148	C	O4'-C1'	11.96	1.59	1.41
36	B2	1576	G	C2'-C1'	-11.94	1.35	1.53
36	B2	1006	C	O4'-C1'	11.94	1.59	1.41
36	B2	614	C	C2'-C1'	-11.94	1.35	1.53
36	B2	168	C	O4'-C1'	11.94	1.59	1.41
36	B2	951	C	O4'-C1'	11.93	1.59	1.41
85	A5	4738	C	O4'-C1'	11.93	1.59	1.41
85	A5	4929	C	O4'-C1'	11.92	1.59	1.41
36	B2	1512	C	O4'-C1'	11.91	1.59	1.41
85	A5	115	C	O4'-C1'	-11.91	1.24	1.42
85	A5	2751	G	C2'-C1'	-11.91	1.35	1.53
49	CQ	13	VAL	CA-CB	-11.90	1.41	1.53
85	A5	4114	C	C2'-C1'	-11.90	1.35	1.53
3	AU	93	SER	C-N	11.90	1.61	1.33
85	A5	1937	C	O4'-C1'	11.90	1.59	1.41
86	A7	93	G	C2'-C1'	-11.89	1.35	1.53
36	B2	1267	C	O4'-C1'	11.89	1.59	1.41
36	B2	1415	C	O4'-C1'	11.89	1.59	1.41
46	CN	14	LYS	C-N	11.89	1.52	1.33
87	A8	149	G	O4'-C1'	-11.88	1.23	1.41
36	B2	1568	C	C2'-C1'	-11.88	1.35	1.53
36	B2	1671	G	C2'-C1'	-11.88	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1681	G	C2'-C1'	-11.88	1.35	1.53
85	A5	2613	C	C2'-C1'	-11.88	1.35	1.53
36	B2	387	C	O4'-C1'	11.87	1.59	1.41
36	B2	1698	C	O4'-C1'	11.87	1.59	1.42
85	A5	1486	C	C2'-C1'	-11.87	1.35	1.53
36	B2	1525	C	O4'-C1'	11.86	1.59	1.41
87	A8	100	U	C2'-C1'	-11.86	1.35	1.53
85	A5	1432	G	O4'-C1'	11.85	1.59	1.41
87	A8	90	C	O4'-C1'	11.85	1.59	1.41
36	B2	350	C	O4'-C1'	11.85	1.59	1.41
20	Aa	97	PRO	CA-C	11.84	1.63	1.52
48	CD	270	LYS	CA-C	11.84	1.67	1.52
36	B2	1423	C	O4'-C1'	11.82	1.59	1.41
85	A5	2077	C	O4'-C1'	11.82	1.59	1.41
85	A5	239	C	O4'-C1'	11.82	1.59	1.41
85	A5	1163	G	C2'-C1'	-11.82	1.35	1.53
36	B2	13	C	O4'-C1'	11.81	1.59	1.41
81	CE	32	LEU	N-CA	-11.81	1.32	1.46
85	A5	180	C	O4'-C1'	11.81	1.59	1.41
85	A5	4092	G	C2'-C1'	-11.80	1.35	1.53
29	AG	157	VAL	CA-CB	-11.80	1.41	1.54
85	A5	4213	A	C2'-C1'	-11.80	1.35	1.53
36	B2	322	C	O4'-C1'	11.80	1.59	1.41
85	A5	3963	A	O4'-C1'	11.80	1.59	1.41
85	A5	2594	C	O4'-C1'	11.79	1.59	1.41
85	A5	9	C	O4'-C1'	11.79	1.59	1.41
85	A5	1979	A	O4'-C1'	11.78	1.59	1.41
86	A7	26	C	C2'-C1'	-11.78	1.35	1.53
85	A5	1667	G	O4'-C1'	11.77	1.59	1.41
36	B2	792	C	C2'-C1'	-11.77	1.35	1.53
85	A5	2419	C	O4'-C1'	11.77	1.59	1.41
36	B2	1408	U	O4'-C1'	11.76	1.59	1.41
85	A5	1181	C	O4'-C1'	11.76	1.59	1.41
85	A5	1382	G	O4'-C1'	11.76	1.59	1.41
36	B2	456	C	C2'-C1'	-11.75	1.35	1.53
85	A5	4536	C	O4'-C1'	11.75	1.59	1.41
36	B2	1026	C	O4'-C1'	11.75	1.59	1.41
85	A5	4634	U	O4'-C1'	11.75	1.59	1.42
58	CW	71	ARG	CB-CG	11.74	1.87	1.52
85	A5	4283	G	C2'-C1'	-11.74	1.35	1.53
36	B2	738	C	O4'-C1'	11.73	1.59	1.41
85	A5	3663	A	C2'-C1'	-11.73	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4444	C	O4'-C1'	11.72	1.59	1.41
85	A5	1309	C	O4'-C1'	11.72	1.59	1.41
85	A5	3771	C	C2'-C1'	-11.71	1.35	1.53
36	B2	1440	C	O4'-C1'	11.71	1.59	1.41
85	A5	983	C	O4'-C1'	11.71	1.59	1.41
87	A8	57	C	O4'-C1'	11.70	1.59	1.41
36	B2	92	A	C2'-C1'	-11.70	1.35	1.53
85	A5	3668	C	O4'-C1'	11.68	1.59	1.41
36	B2	574	A	O4'-C1'	11.68	1.59	1.41
85	A5	3921	U	C2'-C1'	-11.68	1.35	1.53
74	CC	323	ARG	CA-CB	11.68	1.72	1.53
85	A5	1077	C	O4'-C1'	11.67	1.59	1.41
85	A5	4562	C	O4'-C1'	11.67	1.59	1.41
85	A5	4261	C	O4'-C1'	11.66	1.59	1.41
36	B2	1853	C	C2'-C1'	-11.66	1.35	1.53
36	B2	834	C	C2'-C1'	-11.65	1.35	1.53
85	A5	1600	A	C2'-C1'	-11.65	1.35	1.53
36	B2	1404	U	O4'-C1'	11.65	1.59	1.42
85	A5	4345	C	C2'-C1'	-11.65	1.35	1.53
81	CE	88	VAL	CA-C	-11.64	1.38	1.52
85	A5	3961	G	C2'-C1'	-11.64	1.35	1.53
85	A5	370	U	O4'-C1'	11.63	1.59	1.41
85	A5	5036	C	O4'-C1'	11.63	1.59	1.41
36	B2	174	C	O4'-C1'	11.62	1.59	1.41
85	A5	2100	A	O4'-C1'	11.61	1.59	1.41
36	B2	1671	G	O4'-C1'	11.60	1.59	1.41
74	CC	109	ARG	CA-C	11.60	1.68	1.53
36	B2	1811	C	O4'-C1'	11.60	1.59	1.41
36	B2	412	G	O4'-C1'	11.59	1.59	1.41
85	A5	4720	C	O4'-C1'	11.59	1.59	1.42
85	A5	449	C	O4'-C1'	11.59	1.59	1.41
36	B2	1622	U	O4'-C1'	11.58	1.59	1.42
59	CZ	136	PHE	C-OXT	-11.58	1.00	1.23
38	Cz	217	TYR	C-O	-11.58	1.00	1.23
85	A5	1252	C	O4'-C1'	11.58	1.59	1.41
85	A5	4613	C	O4'-C1'	11.58	1.59	1.41
81	CE	288	PHE	C-O	-11.58	1.00	1.23
9	Ad	56	ASP	C-OXT	-11.57	1.00	1.23
35	Ah	303	LYS	C-O	-11.57	1.00	1.23
14	AT	144	LYS	C-O	-11.57	1.00	1.23
70	Ci	103	LYS	C-O	-11.57	1.00	1.23
84	Cu	56	ALA	C-O	-11.57	1.00	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AG	237	LEU	C-O	-11.57	1.00	1.23
35	Ah	188	ARG	C-O	-11.57	1.00	1.23
85	A5	515	C	C2'-C1'	-11.57	1.35	1.53
9	Ad	56	ASP	C-O	-11.56	1.00	1.23
27	AE	263	GLY	C-O	-11.56	1.00	1.23
33	AI	207	GLY	C-O	-11.56	1.00	1.23
49	CQ	188	ASN	C-O	-11.56	1.00	1.23
67	Ce	133	GLU	C-O	-11.56	1.00	1.23
80	CH	191	ASP	C-O	-11.56	1.00	1.23
7	AM	132	LYS	C-O	-11.56	1.00	1.23
19	AZ	115	GLY	C-O	-11.56	1.00	1.23
30	AF	204	ARG	C-OXT	-11.56	1.00	1.23
36	B2	732	U	O4'-C1'	11.56	1.58	1.41
51	CA	256	GLU	C-O	-11.56	1.00	1.23
56	CX	156	ILE	C-OXT	-11.56	1.00	1.23
60	Cr	137	SER	C-OXT	-11.56	1.00	1.23
62	Cb	79	LYS	C-O	-11.56	1.00	1.23
77	Cp	92	GLN	C-O	-11.56	1.00	1.23
64	CF	248	ASN	C-OXT	-11.56	1.00	1.23
86	A7	24	C	O4'-C1'	11.56	1.58	1.41
6	AX	142	ARG	C-O	-11.56	1.00	1.23
21	Ab	84	HIS	C-O	-11.56	1.00	1.23
49	CQ	91	ARG	C-N	11.56	1.44	1.33
23	AD	227	LYS	C-O	-11.56	1.00	1.23
42	CL	211	LYS	C-OXT	-11.56	1.00	1.23
85	A5	706	C	C2'-C1'	-11.56	1.36	1.53
30	AF	204	ARG	C-O	-11.56	1.00	1.23
16	AA	209	GLU	C-O	-11.55	1.00	1.23
24	Ae	59	SER	C-OXT	-11.55	1.00	1.23
38	Cz	217	TYR	C-OXT	-11.55	1.00	1.23
39	Cq	284	ALA	C-O	-11.55	1.00	1.23
47	CI	214	SER	C-O	-11.55	1.00	1.23
58	CW	124	LYS	C-O	-11.55	1.00	1.23
59	CZ	136	PHE	C-O	-11.56	1.00	1.23
81	CE	288	PHE	C-OXT	-11.56	1.00	1.23
25	Af	152	LYS	C-O	-11.55	1.00	1.23
27	AE	263	GLY	C-OXT	-11.55	1.00	1.23
47	CI	214	SER	C-OXT	-11.55	1.00	1.23
78	Co	106	PHE	C-OXT	-11.55	1.00	1.23
79	CJ	176	PRO	C-O	-11.55	1.00	1.23
83	Cs	63	VAL	C-O	-11.55	1.00	1.23
85	A5	1407	C	O4'-C1'	11.55	1.58	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	AK	98	ARG	C-O	-11.55	1.00	1.23
20	Aa	108	PRO	C-O	-11.55	1.00	1.23
26	AJ	188	GLY	C-O	-11.55	1.00	1.23
40	CK	163	PRO	C-O	-11.55	1.00	1.23
42	CL	211	LYS	C-O	-11.55	1.00	1.23
57	CY	134	LYS	C-O	-11.55	1.00	1.23
77	Cp	92	GLN	C-OXT	-11.55	1.00	1.23
83	Ct	63	VAL	C-O	-11.55	1.00	1.23
10	AN	151	ALA	C-O	-11.55	1.00	1.23
36	B2	578	C	O4'-C1'	11.55	1.58	1.41
60	Cr	137	SER	C-O	-11.55	1.00	1.23
28	AC	278	THR	C-O	-11.55	1.00	1.23
32	AW	130	PHE	C-O	-11.55	1.00	1.23
48	CD	297	SER	C-O	-11.55	1.00	1.23
75	Cm	128	LYS	C-OXT	-11.55	1.00	1.23
76	Cn	25	LYS	C-O	-11.55	1.00	1.23
18	AY	128	GLY	C-O	-11.55	1.00	1.23
21	Ab	84	HIS	C-OXT	-11.55	1.00	1.23
36	B2	1688	C	C2'-C1'	-11.55	1.36	1.53
41	CO	203	VAL	C-O	-11.54	1.00	1.23
82	CG	266	GLY	C-O	-11.54	1.00	1.23
82	CG	266	GLY	C-OXT	-11.54	1.00	1.23
85	A5	673	C	O4'-C1'	11.54	1.58	1.41
11	AL	158	PHE	C-O	-11.54	1.00	1.23
11	AL	158	PHE	C-OXT	-11.54	1.00	1.23
41	CO	203	VAL	C-OXT	-11.54	1.00	1.23
44	CM	139	SER	C-O	-11.54	1.00	1.23
74	CC	371	VAL	C-O	-11.54	1.00	1.23
31	AH	194	LEU	C-OXT	-11.54	1.00	1.23
49	CQ	188	ASN	C-OXT	-11.54	1.00	1.23
78	Co	106	PHE	C-O	-11.54	1.00	1.23
2	Ag	314	ILE	C-O	-11.54	1.00	1.23
24	Ae	59	SER	C-O	-11.54	1.00	1.23
32	AW	130	PHE	C-OXT	-11.54	1.00	1.23
36	B2	796	G	C2'-C1'	-11.54	1.36	1.53
66	Cd	124	GLU	C-O	-11.54	1.00	1.23
7	AM	132	LYS	C-OXT	-11.54	1.00	1.23
15	AB	233	GLY	C-O	-11.54	1.00	1.23
50	CR	189	SER	C-O	-11.54	1.00	1.23
56	CX	156	ILE	C-O	-11.54	1.00	1.23
69	Cg	115	LYS	C-O	-11.54	1.00	1.23
72	Ck	70	LYS	C-O	-11.54	1.00	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	CU	126	ASP	C-O	-11.54	1.00	1.23
22	Ac	68	LEU	C-O	-11.54	1.00	1.23
31	AH	194	LEU	C-O	-11.54	1.00	1.23
10	AN	151	ALA	C-OXT	-11.53	1.00	1.23
75	Cm	128	LYS	C-O	-11.54	1.00	1.23
54	CP	153	LYS	C-O	-11.53	1.00	1.23
76	Cn	25	LYS	C-OXT	-11.53	1.00	1.23
63	CB	298	LEU	N-CA	-11.53	1.37	1.46
64	CF	248	ASN	C-O	-11.53	1.00	1.23
72	Ck	70	LYS	C-OXT	-11.53	1.00	1.23
84	Cv	56	ALA	C-O	-11.53	1.00	1.23
85	A5	471	A	O4'-C1'	11.53	1.58	1.41
48	CD	297	SER	C-OXT	-11.53	1.00	1.23
63	CB	398	ALA	C-O	-11.53	1.00	1.23
71	Cj	91	VAL	C-O	-11.53	1.00	1.23
85	A5	1657	G	C2'-C1'	-11.53	1.36	1.53
65	Cc	109	PRO	C-O	-11.52	1.00	1.23
85	A5	2407	G	O4'-C1'	-11.52	1.24	1.42
85	A5	4928	C	O4'-C1'	11.52	1.58	1.41
36	B2	54	A	O4'-C1'	11.52	1.58	1.41
56	CX	40	ILE	CA-C	-11.52	1.38	1.52
36	B2	830	A	O4'-C1'	-11.52	1.24	1.41
85	A5	1509	C	O4'-C1'	11.52	1.58	1.41
85	A5	161	G	C2'-C1'	-11.51	1.36	1.53
85	A5	1902	G	C2'-C1'	-11.50	1.36	1.53
26	AJ	91	LYS	C-O	-11.50	1.09	1.24
36	B2	862	A	O4'-C1'	11.50	1.58	1.41
85	A5	953	C	O4'-C1'	11.50	1.58	1.41
36	B2	1067	C	O4'-C1'	11.49	1.58	1.41
85	A5	1458	C	O4'-C1'	11.49	1.58	1.41
85	A5	2244	C	O4'-C1'	11.49	1.58	1.41
85	A5	3945	A	C2'-C1'	11.49	1.70	1.53
85	A5	2361	G	O4'-C1'	11.49	1.59	1.42
36	B2	143	U	C2'-C1'	-11.48	1.35	1.53
36	B2	1451	G	O4'-C1'	11.47	1.58	1.41
85	A5	1345	A	O4'-C1'	11.47	1.58	1.41
85	A5	4370	G	O4'-C1'	11.47	1.58	1.41
85	A5	135	G	O4'-C1'	11.46	1.58	1.41
85	A5	996	G	C2'-C1'	-11.46	1.36	1.53
85	A5	4992	G	C2'-C1'	-11.46	1.36	1.53
85	A5	1358	G	C2'-C1'	-11.46	1.36	1.53
85	A5	1478	C	O4'-C1'	11.46	1.58	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	AH	109	ARG	CA-CB	-11.45	1.34	1.53
36	B2	1853	C	O4'-C1'	11.45	1.58	1.41
85	A5	414	C	O4'-C1'	11.45	1.58	1.41
85	A5	1245	C	O4'-C1'	11.45	1.58	1.41
36	B2	1271	C	O4'-C1'	11.45	1.58	1.41
85	A5	2791	C	O4'-C1'	11.45	1.58	1.41
36	B2	1741	U	C2'-C1'	-11.45	1.36	1.53
36	B2	1693	G	C2'-C1'	-11.45	1.36	1.53
85	A5	19	G	C2'-C1'	-11.44	1.36	1.53
85	A5	4327	C	O4'-C1'	11.44	1.58	1.41
36	B2	1665	G	C2'-C1'	-11.44	1.35	1.53
85	A5	1410	U	C2'-C1'	11.44	1.70	1.53
85	A5	4169	G	O4'-C1'	11.44	1.58	1.41
36	B2	790	C	O4'-C1'	11.43	1.58	1.41
85	A5	3799	A	C2'-C1'	-11.43	1.36	1.53
85	A5	220	C	C2'-C1'	-11.43	1.36	1.53
85	A5	744	G	C2'-C1'	-11.43	1.36	1.53
85	A5	1505	C	O4'-C1'	11.42	1.58	1.41
36	B2	575	A	O4'-C1'	11.42	1.58	1.41
85	A5	2660	A	C2'-C1'	-11.42	1.35	1.53
85	A5	4176	C	C2'-C1'	-11.42	1.36	1.53
36	B2	551	U	C2'-C1'	-11.41	1.36	1.53
85	A5	383	A	C2'-C1'	-11.41	1.36	1.53
85	A5	4145	C	O4'-C1'	11.41	1.58	1.41
36	B2	591	U	C2'-C1'	-11.41	1.35	1.53
85	A5	2769	U	O4'-C1'	11.41	1.58	1.41
85	A5	1182	C	O4'-C1'	11.41	1.58	1.41
85	A5	4042	G	O4'-C1'	11.40	1.58	1.41
36	B2	296	U	O4'-C1'	11.40	1.58	1.41
85	A5	299	C	O4'-C1'	11.39	1.58	1.41
36	B2	881	G	C2'-C1'	-11.39	1.36	1.53
85	A5	662	C	O4'-C1'	11.39	1.58	1.41
85	A5	963	G	O4'-C1'	11.38	1.59	1.42
85	A5	276	C	O4'-C1'	11.38	1.58	1.41
85	A5	4171	C	O4'-C1'	11.38	1.58	1.41
36	B2	179	C	C2'-C1'	-11.37	1.36	1.53
85	A5	2797	C	O4'-C1'	11.37	1.59	1.42
36	B2	1456	G	C2'-C1'	-11.35	1.36	1.53
85	A5	437	G	C2'-C1'	-11.35	1.36	1.53
85	A5	259	C	O4'-C1'	11.35	1.58	1.41
85	A5	189	G	C2'-C1'	-11.34	1.36	1.53
85	A5	4401	G	C2'-C1'	-11.34	1.36	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	977	C	O4'-C1'	11.33	1.58	1.41
85	A5	668	C	O4'-C1'	11.33	1.58	1.41
85	A5	4342	C	C2'-C1'	-11.33	1.36	1.53
36	B2	1019	C	O4'-C1'	11.32	1.58	1.41
36	B2	1547	C	O4'-C1'	11.32	1.58	1.41
85	A5	4092	G	O4'-C1'	11.32	1.58	1.41
36	B2	62	G	C2'-C1'	-11.31	1.36	1.53
36	B2	1079	C	O4'-C1'	11.30	1.58	1.41
85	A5	83	C	O4'-C1'	11.30	1.58	1.41
36	B2	199	C	O4'-C1'	11.29	1.58	1.41
85	A5	1521	C	O4'-C1'	11.28	1.58	1.41
85	A5	1789	C	O4'-C1'	11.28	1.58	1.41
36	B2	1236	G	O4'-C1'	-11.28	1.24	1.41
36	B2	1783	C	O4'-C1'	11.27	1.58	1.42
85	A5	1419	G	C2'-C1'	-11.27	1.36	1.53
85	A5	304	C	O4'-C1'	11.27	1.58	1.41
85	A5	931	C	O4'-C1'	-11.26	1.25	1.42
85	A5	178	C	O4'-C1'	11.26	1.58	1.41
85	A5	1647	U	C2'-C1'	-11.26	1.36	1.53
36	B2	187	G	C2'-C1'	-11.26	1.36	1.53
85	A5	4259	C	C2'-C1'	-11.26	1.36	1.53
85	A5	4709	U	C2'-C1'	-11.26	1.36	1.53
42	CL	165	LYS	CA-C	11.25	1.67	1.52
85	A5	1551	C	C2'-C1'	-11.25	1.36	1.53
85	A5	2270	G	C2'-C1'	-11.25	1.36	1.53
36	B2	1261	C	O4'-C1'	11.25	1.58	1.41
86	A7	25	G	C2'-C1'	-11.25	1.36	1.53
85	A5	2306	G	O4'-C1'	11.24	1.58	1.42
37	BC	69	G	C2'-C1'	-11.24	1.36	1.53
36	B2	225	G	C2'-C1'	-11.24	1.36	1.53
85	A5	79	C	O4'-C1'	11.24	1.58	1.41
85	A5	1516	G	C2'-C1'	-11.23	1.36	1.53
20	Aa	10	ARG	CD-NE	11.23	1.61	1.46
85	A5	167	C	O4'-C1'	11.23	1.58	1.41
85	A5	696	C	O4'-C1'	11.23	1.58	1.41
85	A5	2860	C	O4'-C1'	11.22	1.58	1.41
85	A5	106	A	C2'-C1'	-11.21	1.36	1.53
85	A5	1884	C	O4'-C1'	11.21	1.58	1.41
36	B2	1688	C	O4'-C1'	11.21	1.58	1.41
86	A7	36	C	C2'-C1'	-11.20	1.36	1.53
85	A5	4140	C	O4'-C1'	11.19	1.58	1.41
17	AV	78	ILE	CA-C	11.19	1.76	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2317	C	O4'-C1'	11.18	1.58	1.41
85	A5	1556	C	O4'-C1'	11.18	1.58	1.41
86	A7	30	C	O4'-C1'	11.18	1.58	1.41
85	A5	142	G	C2'-C1'	-11.18	1.36	1.53
85	A5	1614	C	O4'-C1'	11.16	1.58	1.41
36	B2	4	C	C2'-C1'	-11.15	1.36	1.53
36	B2	667	U	C2'-C1'	-11.15	1.36	1.53
85	A5	1414	C	O4'-C1'	11.15	1.58	1.41
36	B2	990	A	O4'-C1'	11.15	1.58	1.42
36	B2	1175	G	C2'-C1'	-11.15	1.36	1.53
85	A5	1342	A	O4'-C1'	11.15	1.58	1.41
85	A5	1879	C	C2'-C1'	-11.15	1.36	1.53
85	A5	3701	C	O4'-C1'	11.15	1.58	1.42
36	B2	1091	C	O4'-C1'	11.14	1.58	1.41
85	A5	673	C	C2'-C1'	-11.14	1.36	1.53
85	A5	2550	G	C2'-C1'	-11.14	1.36	1.53
81	CE	70	LYS	CA-C	-11.14	1.38	1.52
8	AS	139	THR	CA-C	-11.14	1.47	1.53
36	B2	549	C	O4'-C1'	11.14	1.58	1.41
36	B2	1568	C	O4'-C1'	11.13	1.58	1.41
40	CK	114	ARG	CD-NE	11.13	1.61	1.46
36	B2	697	G	O4'-C1'	11.13	1.58	1.41
87	A8	148	A	O4'-C1'	11.13	1.58	1.41
36	B2	1016	U	C2'-C1'	-11.12	1.36	1.53
85	A5	4658	G	C2'-C1'	-11.12	1.36	1.53
87	A8	118	C	O4'-C1'	11.12	1.58	1.41
85	A5	4411	G	O4'-C1'	11.12	1.58	1.41
69	Cg	45	ALA	C-N	-11.12	1.19	1.33
85	A5	3632	C	O4'-C1'	11.12	1.58	1.41
85	A5	4038	C	O4'-C1'	11.11	1.58	1.41
58	CW	72	THR	N-CA	11.11	1.60	1.46
85	A5	1689	G	C2'-C1'	-11.11	1.36	1.53
36	B2	1022	U	C2'-C1'	-11.11	1.36	1.53
59	CZ	79	HIS	CA-C	-11.11	1.37	1.52
85	A5	4502	C	O4'-C1'	11.11	1.58	1.41
36	B2	1544	C	O4'-C1'	11.10	1.58	1.41
85	A5	2629	C	O4'-C1'	11.10	1.58	1.41
36	B2	738	C	C2'-C1'	-11.09	1.36	1.53
85	A5	1303	A	O4'-C1'	11.09	1.58	1.41
85	A5	326	C	C2'-C1'	-11.09	1.36	1.53
40	CK	130	LYS	CA-CB	11.09	1.72	1.53
85	A5	3834	C	C2'-C1'	-11.09	1.36	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	CS	152	PHE	C-N	11.09	1.59	1.33
87	A8	54	C	O4'-C1'	11.09	1.58	1.41
85	A5	647	G	O4'-C1'	11.08	1.58	1.41
29	AG	170	ARG	CA-CB	11.07	1.70	1.53
85	A5	1686	C	O4'-C1'	11.07	1.58	1.41
36	B2	194	C	O4'-C1'	11.07	1.58	1.41
74	CC	321	ASN	CA-C	-11.07	1.38	1.52
85	A5	3931	C	O4'-C1'	11.07	1.58	1.41
85	A5	472	C	O4'-C1'	11.07	1.58	1.41
1	Az	266	PHE	C-N	11.06	1.46	1.33
85	A5	4047	A	O4'-C1'	11.06	1.58	1.41
85	A5	1463	C	O4'-C1'	11.05	1.58	1.41
85	A5	668	C	C2'-C1'	-11.05	1.36	1.53
85	A5	3897	G	C2'-C1'	-11.04	1.36	1.53
1	Az	669	VAL	CA-CB	11.04	1.68	1.53
36	B2	80	G	O4'-C1'	11.03	1.58	1.41
53	CT	80	VAL	CA-C	11.03	1.66	1.52
85	A5	345	C	O4'-C1'	11.03	1.58	1.41
85	A5	475	G	C2'-C1'	-11.03	1.36	1.53
85	A5	11	G	C2'-C1'	-11.03	1.36	1.53
85	A5	6	C	O4'-C1'	11.02	1.58	1.41
44	CM	80	ALA	C-N	11.02	1.49	1.33
12	AR	89	SER	C-N	11.02	1.48	1.33
85	A5	486	C	O4'-C1'	11.01	1.58	1.41
85	A5	1673	U	O4'-C1'	11.01	1.58	1.41
1	Az	154	VAL	C-N	11.01	1.49	1.33
85	A5	2409	U	O4'-C1'	11.01	1.58	1.41
36	B2	418	A	C2'-C1'	-11.01	1.36	1.53
85	A5	234	G	O4'-C1'	-11.01	1.25	1.42
36	B2	1695	A	O4'-C1'	11.00	1.58	1.42
38	Cz	98	LYS	C-N	11.00	1.49	1.33
85	A5	4603	C	O4'-C1'	11.00	1.58	1.41
53	CT	53	PRO	CA-C	-11.00	1.36	1.52
57	CY	43	ASN	CA-C	-11.00	1.38	1.52
36	B2	164	A	C2'-C1'	-10.99	1.36	1.53
85	A5	2255	C	O4'-C1'	10.99	1.58	1.42
85	A5	4489	G	O4'-C1'	10.99	1.58	1.41
36	B2	208	G	C2'-C1'	-10.99	1.36	1.53
85	A5	1070	G	C2'-C1'	-10.99	1.36	1.53
36	B2	735	C	O4'-C1'	10.99	1.58	1.41
85	A5	332	C	O4'-C1'	10.98	1.58	1.41
81	CE	69	TYR	C-N	10.98	1.48	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	334	C	O4'-C1'	10.97	1.58	1.41
85	A5	390	C	C2'-C1'	-10.97	1.36	1.53
85	A5	2437	C	O4'-C1'	10.97	1.58	1.42
85	A5	1726	U	O4'-C1'	10.97	1.58	1.41
36	B2	990	A	C2'-C1'	-10.96	1.36	1.53
36	B2	1615	U	C2'-C1'	-10.96	1.36	1.53
85	A5	4116	C	O4'-C1'	10.96	1.58	1.42
8	AS	88	LYS	CA-C	10.95	1.65	1.53
85	A5	134	G	O4'-C1'	10.95	1.58	1.41
85	A5	1995	G	O4'-C1'	10.95	1.58	1.41
85	A5	3607	U	C2'-C1'	-10.95	1.36	1.53
85	A5	364	G	O4'-C1'	10.94	1.58	1.42
85	A5	1340	C	O4'-C1'	10.94	1.58	1.41
85	A5	4421	C	O4'-C1'	10.94	1.58	1.41
85	A5	4952	G	C2'-C1'	-10.94	1.36	1.53
36	B2	1664	A	C2'-C1'	-10.94	1.36	1.53
36	B2	792	C	O4'-C1'	10.94	1.58	1.41
85	A5	1104	C	C2'-C1'	-10.94	1.36	1.53
85	A5	2665	U	C2'-C1'	-10.94	1.36	1.53
36	B2	989	C	O4'-C1'	10.93	1.58	1.42
36	B2	1455	A	O4'-C1'	10.93	1.58	1.41
36	B2	1117	C	O4'-C1'	-10.92	1.25	1.41
36	B2	189	U	C2'-C1'	-10.92	1.36	1.53
85	A5	422	C	O4'-C1'	10.92	1.58	1.41
85	A5	2787	A	O4'-C1'	-10.92	1.25	1.41
36	B2	494	C	O4'-C1'	10.91	1.58	1.41
36	B2	64	A	O4'-C1'	-10.91	1.25	1.42
36	B2	1620	A	C2'-C1'	-10.91	1.36	1.53
86	A7	19	C	O4'-C1'	10.90	1.57	1.41
36	B2	1716	C	O4'-C1'	10.88	1.57	1.41
85	A5	4608	G	C2'-C1'	-10.88	1.37	1.53
85	A5	81	C	O4'-C1'	10.88	1.57	1.41
85	A5	902	C	O4'-C1'	10.88	1.57	1.41
85	A5	1974	U	C2'-C1'	-10.88	1.36	1.53
85	A5	2455	G	O4'-C1'	10.87	1.57	1.41
36	B2	48	C	O4'-C1'	10.87	1.57	1.41
85	A5	2351	C	C2'-C1'	-10.86	1.37	1.53
85	A5	1496	G	C2'-C1'	-10.86	1.37	1.53
85	A5	3931	C	C2'-C1'	-10.86	1.37	1.53
85	A5	4141	G	C2'-C1'	-10.86	1.37	1.53
85	A5	2569	G	C2'-C1'	-10.85	1.37	1.53
36	B2	1263	U	O4'-C1'	10.85	1.57	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	977	C	O4'-C1'	10.85	1.57	1.41
85	A5	3745	U	O4'-C1'	10.85	1.57	1.41
40	CK	114	ARG	CA-C	-10.85	1.38	1.52
36	B2	1511	U	O4'-C1'	10.84	1.57	1.41
85	A5	4078	C	O4'-C1'	10.83	1.57	1.41
86	A7	74	A	C2'-C1'	10.83	1.69	1.53
85	A5	1076	C	O4'-C1'	10.83	1.57	1.41
85	A5	3782	C	O4'-C1'	10.83	1.57	1.41
85	A5	3807	A	C2'-C1'	-10.82	1.37	1.53
36	B2	1862	G	O4'-C1'	10.82	1.58	1.42
85	A5	1246	G	O4'-C1'	10.82	1.57	1.41
85	A5	2067	C	O4'-C1'	10.82	1.57	1.41
85	A5	4171	C	C2'-C1'	-10.82	1.37	1.53
85	A5	4432	C	O4'-C1'	10.82	1.57	1.41
85	A5	197	A	C2'-C1'	-10.81	1.37	1.53
85	A5	1079	C	O4'-C1'	10.80	1.57	1.41
85	A5	650	C	O4'-C1'	10.80	1.57	1.41
85	A5	4271	A	C2'-C1'	-10.79	1.37	1.53
85	A5	4558	U	C2'-C1'	-10.79	1.37	1.53
85	A5	4890	G	C2'-C1'	-10.79	1.37	1.53
85	A5	1600	A	O4'-C1'	10.79	1.57	1.41
85	A5	2866	C	O4'-C1'	10.79	1.57	1.41
85	A5	4660	G	C2'-C1'	-10.78	1.37	1.53
37	BC	3	C	O4'-C1'	10.78	1.57	1.41
85	A5	4206	C	O4'-C1'	10.77	1.57	1.41
36	B2	1661	A	C2'-C1'	-10.77	1.37	1.53
86	A7	1	G	O4'-C1'	10.77	1.57	1.41
85	A5	2387	G	C2'-C1'	-10.76	1.37	1.53
85	A5	2497	C	O4'-C1'	10.76	1.57	1.41
85	A5	2791	C	C2'-C1'	-10.76	1.37	1.53
85	A5	4064	C	C2'-C1'	-10.76	1.37	1.53
85	A5	1086	C	O4'-C1'	10.76	1.57	1.41
85	A5	4508	C	O4'-C1'	10.76	1.57	1.41
85	A5	1867	A	O4'-C1'	10.75	1.57	1.41
85	A5	1535	C	O4'-C1'	10.74	1.57	1.41
36	B2	1146	C	C2'-C1'	-10.74	1.37	1.53
85	A5	1948	G	C2'-C1'	-10.74	1.37	1.53
85	A5	4390	A	C2'-C1'	-10.74	1.37	1.53
36	B2	748	C	O4'-C1'	10.74	1.57	1.41
85	A5	2015	U	O4'-C1'	10.73	1.57	1.41
36	B2	228	C	C2'-C1'	-10.73	1.36	1.53
40	CK	99	LYS	N-CA	10.73	1.60	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1854	G	O4'-C1'	10.73	1.58	1.42
85	A5	4639	G	C2'-C1'	-10.73	1.37	1.53
85	A5	2254	G	C2'-C1'	-10.72	1.37	1.53
85	A5	2386	U	C2'-C1'	-10.72	1.37	1.53
36	B2	660	C	O4'-C1'	10.72	1.57	1.41
85	A5	351	C	O4'-C1'	10.72	1.57	1.41
36	B2	1498	A	C2'-C1'	-10.71	1.37	1.53
85	A5	1546	C	C2'-C1'	-10.71	1.37	1.53
85	A5	4593	C	C2'-C1'	-10.71	1.37	1.53
85	A5	3867	A	C2'-C1'	-10.70	1.37	1.53
85	A5	2087	C	O4'-C1'	10.70	1.57	1.41
85	A5	3622	C	O4'-C1'	10.69	1.57	1.41
36	B2	750	C	O4'-C1'	10.69	1.57	1.41
86	A7	52	C	O4'-C1'	10.69	1.57	1.41
85	A5	2323	C	O4'-C1'	10.69	1.57	1.41
85	A5	460	C	O4'-C1'	10.69	1.57	1.41
26	AJ	144	ILE	CA-CB	-10.68	1.40	1.54
85	A5	1419	G	O4'-C1'	10.68	1.57	1.41
85	A5	3594	C	C2'-C1'	-10.68	1.37	1.53
85	A5	4546	A	O4'-C1'	10.68	1.57	1.41
36	B2	1220	A	C2'-C1'	-10.68	1.37	1.53
85	A5	1315	C	O4'-C1'	10.67	1.57	1.41
85	A5	326	C	O4'-C1'	10.67	1.57	1.41
36	B2	81	U	C2'-C1'	-10.66	1.37	1.53
85	A5	371	A	O4'-C1'	10.66	1.57	1.41
36	B2	1537	A	O4'-C1'	10.66	1.57	1.41
85	A5	4905	C	O4'-C1'	10.66	1.57	1.41
53	CT	80	VAL	N-CA	10.65	1.57	1.46
85	A5	1384	C	O4'-C1'	10.65	1.57	1.41
85	A5	4678	G	O4'-C1'	-10.65	1.25	1.42
85	A5	1430	C	O4'-C1'	10.65	1.57	1.41
85	A5	1541	C	C2'-C1'	-10.65	1.37	1.53
85	A5	1892	A	O4'-C1'	-10.65	1.25	1.42
85	A5	2422	C	O4'-C1'	10.64	1.57	1.41
85	A5	421	C	O4'-C1'	10.63	1.57	1.41
85	A5	302	C	O4'-C1'	10.63	1.57	1.41
36	B2	755	C	O4'-C1'	10.63	1.57	1.41
53	CT	142	ARG	CA-C	-10.63	1.41	1.53
59	CZ	102	ARG	CA-C	-10.63	1.38	1.52
85	A5	4070	U	O4'-C1'	10.63	1.57	1.41
85	A5	1288	G	O4'-C1'	10.62	1.57	1.41
85	A5	4375	C	O4'-C1'	10.62	1.57	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	201	C	O4'-C1'	10.62	1.57	1.41
85	A5	139	G	C2'-C1'	-10.61	1.37	1.53
85	A5	245	C	O4'-C1'	-10.61	1.25	1.41
36	B2	732	U	C2'-C1'	-10.61	1.37	1.53
44	CM	46	ARG	CA-C	-10.61	1.39	1.52
85	A5	1362	G	O4'-C1'	10.61	1.57	1.41
85	A5	4342	C	O4'-C1'	10.60	1.57	1.41
85	A5	1343	A	O4'-C1'	10.60	1.57	1.41
36	B2	1682	C	O4'-C1'	10.59	1.57	1.42
85	A5	168	C	O4'-C1'	10.59	1.57	1.41
85	A5	934	C	O4'-C1'	10.59	1.57	1.41
87	A8	116	C	O4'-C1'	10.59	1.57	1.41
36	B2	1226	G	O4'-C1'	10.59	1.57	1.41
85	A5	714	G	C2'-C1'	-10.59	1.37	1.53
36	B2	1267	C	C2'-C1'	-10.59	1.37	1.53
36	B2	918	U	C2'-C1'	-10.59	1.37	1.53
36	B2	1834	A	C2'-C1'	-10.59	1.37	1.53
85	A5	1587	G	O4'-C1'	10.59	1.57	1.42
36	B2	808	A	C2'-C1'	-10.58	1.37	1.53
85	A5	1931	C	C2'-C1'	-10.58	1.37	1.53
40	CK	137	GLN	CA-C	10.58	1.68	1.53
4	AK	93	THR	CA-C	10.58	1.66	1.52
87	A8	100	U	O4'-C1'	10.58	1.57	1.41
87	A8	152	U	C2'-C1'	-10.58	1.37	1.53
36	B2	492	C	O4'-C1'	10.57	1.57	1.42
85	A5	1794	A	O4'-C1'	10.57	1.57	1.41
85	A5	1402	C	O4'-C1'	10.56	1.57	1.41
85	A5	278	G	O4'-C1'	10.56	1.57	1.42
85	A5	1371	A	C2'-C1'	10.55	1.69	1.53
85	A5	1519	C	C2'-C1'	-10.55	1.37	1.53
17	AV	64	GLU	CA-C	10.55	1.62	1.52
85	A5	2058	G	O4'-C1'	10.55	1.57	1.41
85	A5	4461	C	O4'-C1'	10.55	1.57	1.41
85	A5	2653	C	O4'-C1'	10.54	1.57	1.41
36	B2	849	A	C2'-C1'	-10.54	1.37	1.53
85	A5	2014	C	O4'-C1'	10.54	1.57	1.41
85	A5	4201	G	C2'-C1'	-10.54	1.37	1.53
36	B2	532	C	O4'-C1'	10.53	1.57	1.41
86	A7	102	U	O4'-C1'	10.53	1.57	1.41
36	B2	633	C	O4'-C1'	10.53	1.57	1.41
58	CW	71	ARG	CD-NE	10.53	1.60	1.46
85	A5	2249	C	O4'-C1'	10.53	1.57	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1650	A	C2'-C1'	-10.53	1.37	1.53
85	A5	4176	C	O4'-C1'	10.53	1.57	1.41
85	A5	4584	A	C2'-C1'	-10.53	1.37	1.53
85	A5	940	C	C2'-C1'	-10.52	1.37	1.53
85	A5	1382	G	C2'-C1'	-10.52	1.37	1.53
85	A5	1777	C	O4'-C1'	10.52	1.57	1.41
85	A5	2870	A	O4'-C1'	10.52	1.57	1.41
87	A8	46	G	C2'-C1'	-10.51	1.37	1.53
85	A5	1585	C	O4'-C1'	10.51	1.57	1.41
85	A5	2022	C	C2'-C1'	-10.51	1.37	1.53
85	A5	2271	C	O4'-C1'	10.51	1.57	1.41
36	B2	1739	C	O4'-C1'	10.50	1.57	1.41
85	A5	1371	A	O4'-C1'	10.50	1.57	1.41
85	A5	1532	G	O4'-C1'	10.50	1.57	1.41
85	A5	8	U	C2'-C1'	-10.50	1.37	1.53
85	A5	1293	G	C2'-C1'	-10.50	1.37	1.53
36	B2	1018	U	C2'-C1'	-10.49	1.37	1.53
85	A5	981	C	O4'-C1'	10.49	1.57	1.41
85	A5	2727	C	O4'-C1'	10.49	1.57	1.41
36	B2	1233	G	C2'-C1'	-10.49	1.37	1.53
85	A5	2647	A	O4'-C1'	10.49	1.57	1.41
38	Cz	210	MET	CA-C	10.48	1.66	1.52
85	A5	3598	C	O4'-C1'	10.48	1.57	1.41
85	A5	4580	U	C2'-C1'	-10.48	1.37	1.53
36	B2	1266	C	O4'-C1'	10.48	1.57	1.41
36	B2	1326	U	O4'-C1'	10.48	1.57	1.42
36	B2	1655	C	O4'-C1'	10.48	1.57	1.41
52	CS	175	PHE	N-CA	-10.47	1.30	1.46
36	B2	1420	G	C2'-C1'	-10.47	1.37	1.53
85	A5	1463	C	C2'-C1'	-10.47	1.37	1.53
36	B2	1761	U	C2'-C1'	-10.47	1.37	1.53
85	A5	1867	A	C2'-C1'	-10.47	1.37	1.53
85	A5	1935	C	O4'-C1'	10.47	1.57	1.42
85	A5	4706	G	O4'-C1'	10.47	1.57	1.41
85	A5	948	C	C2'-C1'	-10.46	1.37	1.53
85	A5	4662	C	O4'-C1'	10.46	1.57	1.41
85	A5	3788	C	O4'-C1'	10.45	1.57	1.41
85	A5	4645	C	O4'-C1'	10.45	1.57	1.41
37	BC	60	C	O4'-C1'	10.45	1.57	1.41
67	Ce	16	ARG	CA-C	-10.45	1.38	1.53
85	A5	1278	C	O4'-C1'	10.45	1.57	1.41
85	A5	1988	G	O4'-C1'	10.44	1.57	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	AJ	101	LYS	N-CA	10.44	1.58	1.46
85	A5	1651	G	O4'-C1'	10.44	1.57	1.41
85	A5	3949	A	C2'-C1'	-10.44	1.37	1.53
36	B2	593	C	O4'-C1'	10.44	1.57	1.41
58	CW	71	ARG	CA-C	-10.44	1.38	1.52
85	A5	1485	C	O4'-C1'	10.43	1.57	1.41
85	A5	3863	C	C2'-C1'	-10.43	1.37	1.53
85	A5	448	G	O4'-C1'	10.43	1.57	1.41
36	B2	441	C	C2'-C1'	-10.43	1.37	1.53
36	B2	1616	U	C2'-C1'	-10.42	1.37	1.53
36	B2	1342	U	O4'-C1'	10.42	1.57	1.42
86	A7	73	U	C2'-C1'	-10.42	1.37	1.53
85	A5	1902	G	O4'-C1'	10.42	1.57	1.41
37	BC	8	U	O4'-C1'	10.41	1.57	1.41
86	A7	54	A	O4'-C1'	10.41	1.57	1.41
85	A5	4721	G	C2'-C1'	-10.41	1.37	1.53
36	B2	62	G	O4'-C1'	10.41	1.57	1.41
85	A5	32	G	O4'-C1'	10.41	1.57	1.41
85	A5	4120	U	C2'-C1'	-10.41	1.37	1.53
86	A7	31	G	C2'-C1'	-10.39	1.37	1.53
85	A5	3712	A	O4'-C1'	-10.39	1.26	1.42
85	A5	3812	C	C2'-C1'	-10.38	1.37	1.53
52	CS	151	LYS	N-CA	-10.38	1.32	1.46
85	A5	3826	C	C2'-C1'	-10.38	1.37	1.53
82	CG	106	THR	C-N	10.38	1.48	1.33
36	B2	1807	C	O4'-C1'	10.37	1.57	1.41
85	A5	4130	C	C2'-C1'	-10.38	1.37	1.53
49	CQ	12	LYS	C-N	-10.37	1.24	1.33
36	B2	184	G	O4'-C1'	10.37	1.57	1.41
58	CW	72	THR	CA-C	10.37	1.66	1.52
85	A5	2571	C	C2'-C1'	-10.37	1.37	1.53
85	A5	1101	C	O4'-C1'	10.36	1.57	1.41
85	A5	4257	A	O4'-C1'	10.37	1.57	1.42
85	A5	205	C	O4'-C1'	10.36	1.57	1.41
85	A5	1328	G	C2'-C1'	-10.36	1.37	1.53
85	A5	3862	A	O4'-C1'	10.36	1.57	1.41
36	B2	1553	C	O4'-C1'	-10.35	1.26	1.41
85	A5	271	C	O4'-C1'	10.35	1.57	1.41
85	A5	4243	C	O4'-C1'	10.35	1.57	1.41
85	A5	1374	G	C2'-C1'	-10.35	1.37	1.53
85	A5	1812	C	O4'-C1'	10.35	1.57	1.41
85	A5	5033	G	C2'-C1'	-10.35	1.37	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	638	G	C2'-C1'	-10.35	1.37	1.53
85	A5	4057	C	O4'-C1'	10.35	1.57	1.41
74	CC	109	ARG	N-CA	10.34	1.59	1.45
85	A5	4736	C	O4'-C1'	10.34	1.57	1.41
85	A5	1554	A	C2'-C1'	-10.34	1.37	1.53
36	B2	183	G	O4'-C1'	10.33	1.57	1.41
54	CP	110	ASP	CA-C	-10.33	1.39	1.52
85	A5	289	C	O4'-C1'	10.33	1.57	1.41
36	B2	608	C	O4'-C1'	10.33	1.57	1.41
85	A5	4270	C	O4'-C1'	10.32	1.57	1.41
85	A5	4528	G	O4'-C1'	10.32	1.57	1.41
36	B2	1144	A	C2'-C1'	-10.32	1.37	1.53
85	A5	2820	C	O4'-C1'	10.32	1.57	1.41
85	A5	2652	G	C2'-C1'	-10.31	1.37	1.53
85	A5	4713	G	C2'-C1'	-10.31	1.37	1.53
36	B2	311	C	O4'-C1'	10.31	1.57	1.41
85	A5	679	C	O4'-C1'	10.31	1.57	1.41
85	A5	1993	C	C2'-C1'	-10.31	1.37	1.53
85	A5	2665	U	O4'-C1'	10.31	1.57	1.41
85	A5	4963	G	C2'-C1'	-10.31	1.37	1.53
85	A5	1987	C	O4'-C1'	10.31	1.57	1.41
85	A5	3899	G	O4'-C1'	10.31	1.57	1.41
85	A5	1696	C	O4'-C1'	10.31	1.57	1.41
85	A5	3623	C	O4'-C1'	10.30	1.57	1.41
40	CK	137	GLN	N-CA	10.30	1.60	1.45
85	A5	1330	A	C2'-C1'	-10.30	1.38	1.53
64	CF	221	LYS	C-N	10.29	1.48	1.33
85	A5	4134	C	C2'-C1'	-10.29	1.38	1.53
85	A5	1972	G	C2'-C1'	-10.29	1.38	1.53
85	A5	3699	C	O4'-C1'	10.29	1.57	1.41
85	A5	395	A	C2'-C1'	-10.28	1.38	1.53
85	A5	3727	A	O4'-C1'	10.28	1.57	1.41
85	A5	2428	A	C2'-C1'	-10.28	1.37	1.53
85	A5	79	C	C2'-C1'	-10.28	1.38	1.53
85	A5	3887	C	C2'-C1'	-10.28	1.38	1.53
85	A5	4134	C	O4'-C1'	10.28	1.57	1.41
36	B2	622	C	O4'-C1'	10.27	1.57	1.41
85	A5	3882	C	O4'-C1'	10.27	1.57	1.41
85	A5	4504	C	O4'-C1'	10.27	1.57	1.41
85	A5	3870	C	C2'-C1'	-10.27	1.38	1.53
47	CI	193	ASP	C-N	-10.27	1.18	1.33
85	A5	2073	C	C2'-C1'	-10.27	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4421	C	C2'-C1'	-10.27	1.38	1.53
36	B2	285	U	O4'-C1'	10.27	1.57	1.41
85	A5	1589	C	O4'-C1'	10.27	1.57	1.41
74	CC	322	LEU	C-N	10.26	1.46	1.33
85	A5	939	G	O4'-C1'	10.26	1.57	1.41
36	B2	1592	C	C2'-C1'	-10.26	1.38	1.53
36	B2	1607	A	C2'-C1'	-10.25	1.38	1.53
85	A5	699	C	O4'-C1'	10.25	1.57	1.41
85	A5	2395	A	C2'-C1'	-10.25	1.37	1.53
36	B2	18	C	O4'-C1'	10.25	1.57	1.41
85	A5	335	A	O4'-C1'	10.25	1.57	1.41
85	A5	4277	G	C2'-C1'	-10.25	1.38	1.53
36	B2	475	C	O4'-C1'	10.24	1.57	1.41
85	A5	1870	C	O4'-C1'	10.24	1.57	1.41
85	A5	4230	C	C2'-C1'	-10.24	1.38	1.53
85	A5	2074	C	O4'-C1'	10.24	1.57	1.41
85	A5	4199	C	O4'-C1'	10.24	1.57	1.41
36	B2	1799	G	C2'-C1'	-10.23	1.38	1.53
36	B2	308	G	O4'-C1'	10.23	1.57	1.42
47	CI	4	ARG	C-N	10.23	1.57	1.33
85	A5	1436	C	O4'-C1'	10.23	1.56	1.41
85	A5	4671	C	O4'-C1'	10.23	1.57	1.42
85	A5	176	G	C2'-C1'	-10.23	1.38	1.53
85	A5	4368	G	C2'-C1'	-10.23	1.38	1.53
36	B2	1255	G	C2'-C1'	-10.22	1.38	1.53
85	A5	2899	C	O4'-C1'	10.22	1.56	1.41
85	A5	923	C	C2'-C1'	-10.22	1.38	1.53
85	A5	1103	C	O4'-C1'	10.22	1.56	1.41
85	A5	4052	C	O4'-C1'	10.22	1.56	1.41
85	A5	222	C	C2'-C1'	-10.22	1.38	1.53
67	Ce	16	ARG	N-CA	-10.22	1.32	1.45
36	B2	1391	C	O4'-C1'	10.21	1.56	1.41
58	CW	73	ARG	N-CA	10.21	1.59	1.46
87	A8	47	C	O4'-C1'	10.21	1.56	1.41
36	B2	911	C	O4'-C1'	10.21	1.56	1.41
85	A5	1295	C	O4'-C1'	10.21	1.57	1.42
85	A5	2341	A	C2'-C1'	-10.21	1.38	1.53
54	CP	93	HIS	N-CA	-10.21	1.33	1.46
60	Cr	115	SER	N-CA	-10.20	1.34	1.46
85	A5	1629	G	O4'-C1'	10.21	1.56	1.41
85	A5	4726	G	C2'-C1'	-10.21	1.38	1.53
87	A8	113	C	O4'-C1'	10.21	1.56	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1807	C	C2'-C1'	-10.20	1.38	1.53
85	A5	220	C	O4'-C1'	10.20	1.56	1.41
38	Cz	99	LEU	C-N	10.20	1.47	1.33
85	A5	720	G	C2'-C1'	-10.19	1.38	1.53
85	A5	146	G	C2'-C1'	-10.19	1.38	1.53
85	A5	1363	C	C2'-C1'	-10.18	1.38	1.53
82	CG	35	ARG	CA-C	10.18	1.65	1.53
64	CF	210	PRO	N-CD	10.18	1.62	1.47
85	A5	1666	C	O4'-C1'	10.18	1.56	1.41
62	Cb	54	LEU	CA-CB	10.18	1.70	1.53
36	B2	1771	G	C2'-C1'	-10.17	1.38	1.53
85	A5	5052	C	O4'-C1'	10.16	1.56	1.41
36	B2	1794	C	O4'-C1'	10.16	1.56	1.41
36	B2	579	C	O4'-C1'	10.16	1.56	1.41
85	A5	2488	C	C2'-C1'	-10.16	1.38	1.53
36	B2	555	A	O4'-C1'	10.15	1.56	1.41
36	B2	1064	C	O4'-C1'	10.15	1.56	1.41
77	Cp	91	ASP	CA-C	-10.15	1.42	1.53
85	A5	4615	C	O4'-C1'	10.15	1.56	1.41
85	A5	2410	C	O4'-C1'	10.14	1.56	1.41
36	B2	335	G	O4'-C1'	-10.14	1.26	1.41
81	CE	74	SER	C-N	10.13	1.47	1.33
85	A5	340	C	O4'-C1'	10.13	1.57	1.42
85	A5	1841	C	O4'-C1'	-10.13	1.26	1.42
85	A5	1529	G	C2'-C1'	-10.13	1.38	1.53
85	A5	1413	C	O4'-C1'	10.13	1.56	1.41
85	A5	3665	G	C2'-C1'	-10.12	1.38	1.53
67	Ce	17	THR	C-N	10.12	1.47	1.33
36	B2	1432	U	O4'-C1'	10.12	1.56	1.41
36	B2	1633	A	O4'-C1'	10.12	1.56	1.41
85	A5	4714	C	O4'-C1'	10.12	1.56	1.41
36	B2	1562	C	C2'-C1'	-10.11	1.38	1.53
85	A5	903	C	O4'-C1'	10.11	1.56	1.41
85	A5	4051	C	O4'-C1'	10.11	1.56	1.41
36	B2	891	G	C2'-C1'	-10.11	1.38	1.53
85	A5	4459	U	C2'-C1'	-10.10	1.38	1.53
36	B2	633	C	C2'-C1'	-10.10	1.38	1.53
85	A5	60	G	C2'-C1'	-10.10	1.38	1.53
85	A5	4156	G	O4'-C1'	-10.10	1.26	1.41
85	A5	725	G	C2'-C1'	-10.10	1.38	1.53
85	A5	967	C	O4'-C1'	10.09	1.56	1.41
85	A5	504	G	O4'-C1'	10.09	1.56	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2779	C	O4'-C1'	10.09	1.56	1.41
85	A5	90	G	O4'-C1'	10.09	1.56	1.41
85	A5	3869	C	O4'-C1'	10.08	1.56	1.41
56	CX	60	TYR	CA-C	-10.08	1.42	1.52
85	A5	719	C	O4'-C1'	10.08	1.56	1.41
85	A5	2855	G	C2'-C1'	-10.08	1.38	1.53
85	A5	3794	C	O4'-C1'	10.08	1.56	1.41
87	A8	49	G	O4'-C1'	10.08	1.56	1.41
37	BC	56	G	O4'-C1'	10.07	1.56	1.41
85	A5	2504	C	O4'-C1'	10.07	1.56	1.41
85	A5	2733	C	O4'-C1'	10.07	1.56	1.41
85	A5	3739	C	O4'-C1'	10.07	1.56	1.41
85	A5	3775	A	O4'-C1'	-10.07	1.26	1.41
85	A5	2753	G	O4'-C1'	10.07	1.56	1.41
81	CE	126	LEU	CA-C	-10.06	1.39	1.53
85	A5	3650	C	O4'-C1'	10.06	1.56	1.41
85	A5	4456	C	O4'-C1'	10.06	1.56	1.41
85	A5	1723	A	C2'-C1'	-10.05	1.38	1.53
36	B2	1431	G	C2'-C1'	-10.05	1.38	1.53
85	A5	1789	C	C2'-C1'	-10.04	1.38	1.53
36	B2	749	U	O4'-C1'	10.04	1.56	1.41
85	A5	390	C	O4'-C1'	10.04	1.56	1.41
85	A5	4974	C	O4'-C1'	10.04	1.56	1.41
87	A8	106	G	C2'-C1'	-10.03	1.38	1.53
39	Cq	127	ASN	CA-C	-10.03	1.39	1.52
81	CE	127	SER	CA-C	10.03	1.65	1.52
85	A5	2597	G	C2'-C1'	-10.03	1.38	1.53
85	A5	4652	G	C2'-C1'	-10.03	1.38	1.53
85	A5	4443	C	O4'-C1'	10.02	1.56	1.42
36	B2	856	C	C2'-C1'	-10.02	1.38	1.53
85	A5	1795	A	C2'-C1'	-10.02	1.38	1.53
36	B2	919	A	C2'-C1'	-10.02	1.38	1.53
66	Cd	115	LYS	CA-C	10.02	1.67	1.53
85	A5	1064	G	C2'-C1'	-10.02	1.38	1.53
36	B2	417	C	O4'-C1'	10.02	1.56	1.41
85	A5	3962	A	O4'-C1'	-10.01	1.26	1.42
85	A5	1300	G	C2'-C1'	-10.01	1.38	1.53
33	AI	134	GLU	CA-C	-10.00	1.40	1.52
36	B2	888	U	C2'-C1'	-10.00	1.38	1.53
74	CC	85	HIS	C-N	10.00	1.47	1.33
4	AK	46	MET	CA-C	-9.99	1.40	1.52
86	A7	99	G	O4'-C1'	9.99	1.56	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	199	C	C2'-C1'	-9.98	1.38	1.53
36	B2	616	A	O4'-C1'	9.98	1.56	1.41
36	B2	1118	C	O4'-C1'	-9.98	1.26	1.41
37	BC	11	C	O4'-C1'	9.98	1.56	1.41
85	A5	4676	G	O4'-C1'	9.97	1.56	1.41
85	A5	486	C	C2'-C1'	-9.97	1.38	1.53
85	A5	3670	C	C2'-C1'	-9.97	1.38	1.53
85	A5	3823	G	O4'-C1'	9.97	1.56	1.41
81	CE	70	LYS	N-CA	9.96	1.58	1.46
36	B2	563	G	O4'-C1'	9.96	1.56	1.42
36	B2	1703	C	O4'-C1'	9.96	1.56	1.41
85	A5	1333	A	C2'-C1'	-9.96	1.38	1.53
85	A5	1677	U	C2'-C1'	-9.96	1.38	1.53
37	BC	10	G	O4'-C1'	9.95	1.56	1.41
85	A5	4974	C	C2'-C1'	-9.95	1.38	1.53
6	AX	126	ALA	CA-CB	-9.95	1.38	1.53
85	A5	2603	C	O4'-C1'	9.95	1.56	1.41
36	B2	1737	G	O4'-C1'	9.94	1.56	1.41
36	B2	868	G	O4'-C1'	9.94	1.56	1.42
85	A5	5064	G	C2'-C1'	-9.94	1.38	1.53
85	A5	4656	A	C2'-C1'	-9.93	1.38	1.53
85	A5	2768	C	O4'-C1'	9.93	1.56	1.41
36	B2	1245	G	C2'-C1'	-9.93	1.38	1.53
37	BC	45	G	O4'-C1'	9.93	1.56	1.42
86	A7	22	A	O4'-C1'	9.92	1.56	1.41
85	A5	1787	A	O4'-C1'	9.92	1.56	1.41
85	A5	2365	C	O4'-C1'	9.92	1.56	1.41
36	B2	1185	C	O4'-C1'	9.91	1.56	1.41
49	CQ	7	HIS	CA-C	9.91	1.66	1.52
85	A5	2738	C	O4'-C1'	9.91	1.56	1.41
85	A5	4387	C	O4'-C1'	9.91	1.56	1.41
85	A5	4509	U	O4'-C1'	9.91	1.56	1.41
36	B2	1410	C	C2'-C1'	-9.90	1.38	1.53
85	A5	406	C	O4'-C1'	9.90	1.56	1.42
36	B2	1459	G	C2'-C1'	-9.90	1.38	1.53
85	A5	3700	C	C2'-C1'	-9.90	1.38	1.53
85	A5	4247	G	C2'-C1'	-9.90	1.38	1.53
36	B2	558	G	C2'-C1'	-9.90	1.38	1.53
85	A5	185	C	O4'-C1'	9.90	1.56	1.41
85	A5	2444	U	O4'-C1'	9.90	1.56	1.41
74	CC	323	ARG	N-CA	9.89	1.57	1.46
85	A5	1741	G	C2'-C1'	-9.89	1.38	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4953	G	C2'-C1'	-9.89	1.38	1.53
36	B2	1542	C	O4'-C1'	9.89	1.56	1.41
85	A5	1480	C	O4'-C1'	9.89	1.56	1.42
87	A8	65	A	C2'-C1'	-9.89	1.38	1.53
85	A5	949	G	C2'-C1'	-9.88	1.38	1.53
36	B2	891	G	O4'-C1'	9.88	1.56	1.41
85	A5	4650	G	C2'-C1'	-9.88	1.38	1.53
1	Az	854	PHE	N-CA	-9.88	1.34	1.46
85	A5	230	G	C2'-C1'	-9.88	1.38	1.53
74	CC	22	VAL	CA-CB	-9.88	1.40	1.54
86	A7	107	G	C2'-C1'	-9.88	1.38	1.53
85	A5	1599	A	O4'-C1'	9.87	1.56	1.41
28	AC	59	GLU	CA-C	-9.87	1.41	1.52
85	A5	3609	G	C2'-C1'	-9.87	1.38	1.53
85	A5	4410	G	O4'-C1'	9.86	1.56	1.41
85	A5	1656	U	C2'-C1'	-9.86	1.38	1.53
85	A5	3587	C	O4'-C1'	9.86	1.56	1.41
37	BC	65	C	C2'-C1'	-9.86	1.38	1.53
85	A5	1607	C	O4'-C1'	9.86	1.56	1.41
36	B2	446	G	O4'-C1'	9.86	1.56	1.41
36	B2	1628	C	C2'-C1'	-9.86	1.38	1.53
85	A5	1993	C	O4'-C1'	9.84	1.56	1.41
24	Ae	46	VAL	CA-CB	-9.84	1.47	1.53
85	A5	288	G	C2'-C1'	-9.84	1.38	1.53
85	A5	724	C	C2'-C1'	9.84	1.68	1.53
85	A5	912	G	C2'-C1'	-9.84	1.38	1.53
85	A5	1605	G	C2'-C1'	-9.84	1.38	1.53
36	B2	984	C	C2'-C1'	-9.84	1.38	1.53
36	B2	1078	C	O4'-C1'	9.84	1.56	1.41
85	A5	4241	C	O4'-C1'	9.83	1.56	1.41
36	B2	1674	G	O4'-C1'	9.83	1.56	1.41
36	B2	1128	C	O4'-C1'	9.82	1.56	1.41
85	A5	1846	G	C2'-C1'	-9.82	1.38	1.53
36	B2	548	C	C2'-C1'	-9.82	1.38	1.53
59	CZ	6	LYS	CA-C	-9.82	1.40	1.52
85	A5	2535	G	C2'-C1'	-9.82	1.38	1.53
85	A5	2797	C	C2'-C1'	-9.81	1.38	1.53
26	AJ	164	PRO	N-CA	-9.81	1.34	1.47
85	A5	480	C	O4'-C1'	9.80	1.56	1.41
85	A5	2335	C	C2'-C1'	-9.80	1.38	1.53
87	A8	106	G	O4'-C1'	9.80	1.56	1.41
47	CI	4	ARG	N-CA	-9.80	1.32	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
60	Cr	114	ALA	C-N	-9.80	1.21	1.33
87	A8	114	G	C2'-C1'	-9.79	1.38	1.53
85	A5	4686	G	C2'-C1'	-9.79	1.38	1.53
85	A5	1349	G	C2'-C1'	-9.79	1.38	1.53
85	A5	4906	C	C2'-C1'	-9.79	1.38	1.53
36	B2	907	G	C2'-C1'	-9.79	1.38	1.53
36	B2	1582	C	C2'-C1'	-9.79	1.38	1.53
36	B2	1132	C	C2'-C1'	-9.79	1.38	1.53
36	B2	632	C	O4'-C1'	9.78	1.56	1.41
37	BC	67	C	C2'-C1'	-9.78	1.38	1.53
74	CC	313	VAL	CA-CB	-9.78	1.41	1.54
85	A5	4749	C	O4'-C1'	-9.78	1.27	1.42
36	B2	904	A	O4'-C1'	9.78	1.56	1.41
85	A5	307	A	O4'-C1'	9.77	1.56	1.41
85	A5	1911	C	O4'-C1'	9.77	1.56	1.41
36	B2	531	A	O4'-C1'	9.77	1.56	1.41
36	B2	1644	C	C2'-C1'	-9.77	1.38	1.53
85	A5	487	G	C2'-C1'	-9.77	1.38	1.53
85	A5	1726	U	C2'-C1'	-9.77	1.38	1.53
85	A5	4470	G	O4'-C1'	9.77	1.56	1.41
36	B2	1798	C	O4'-C1'	9.76	1.56	1.41
87	A8	59	A	C2'-C1'	-9.76	1.38	1.53
85	A5	3749	C	C2'-C1'	-9.76	1.38	1.53
36	B2	1754	G	C2'-C1'	-9.75	1.38	1.53
85	A5	4865	C	O4'-C1'	9.75	1.56	1.41
85	A5	1793	A	O4'-C1'	9.75	1.56	1.41
85	A5	316	U	O4'-C1'	9.74	1.56	1.42
29	AG	36	VAL	CA-C	-9.74	1.42	1.52
85	A5	2292	C	O4'-C1'	9.74	1.56	1.41
85	A5	2763	U	O4'-C1'	9.74	1.56	1.41
36	B2	1437	C	C2'-C1'	-9.74	1.38	1.53
36	B2	1475	G	C2'-C1'	-9.74	1.38	1.53
61	Ch	78	TYR	C-O	-9.73	1.11	1.24
36	B2	1048	G	O4'-C1'	9.73	1.56	1.41
60	Cr	108	MET	CA-C	-9.73	1.40	1.52
85	A5	1368	A	O4'-C1'	9.73	1.56	1.41
85	A5	4159	C	O4'-C1'	9.73	1.56	1.41
85	A5	4902	C	O4'-C1'	9.73	1.56	1.41
36	B2	4	C	O4'-C1'	9.73	1.56	1.41
85	A5	4304	A	C2'-C1'	-9.73	1.38	1.53
36	B2	144	U	C2'-C1'	-9.72	1.38	1.53
26	AJ	163	SER	C-N	-9.72	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	758	C	O4'-C1'	9.72	1.56	1.41
37	BC	26	C	O4'-C1'	9.72	1.56	1.41
85	A5	4519	C	O4'-C1'	9.72	1.56	1.41
85	A5	368	C	O4'-C1'	9.72	1.56	1.41
36	B2	84	A	O4'-C1'	9.71	1.56	1.41
85	A5	1386	C	O4'-C1'	9.71	1.56	1.41
37	BC	67	C	O4'-C1'	9.71	1.56	1.41
82	CG	183	ILE	CA-C	-9.71	1.40	1.52
85	A5	3	C	O4'-C1'	9.71	1.56	1.41
36	B2	592	C	O4'-C1'	-9.70	1.27	1.42
85	A5	2400	G	O4'-C1'	9.70	1.56	1.41
85	A5	4332	C	O4'-C1'	9.70	1.56	1.41
36	B2	1095	C	C2'-C1'	-9.70	1.38	1.53
85	A5	2481	G	C2'-C1'	-9.70	1.38	1.53
85	A5	746	A	C2'-C1'	-9.70	1.38	1.53
85	A5	130	C	O4'-C1'	9.70	1.56	1.41
85	A5	329	A	C2'-C1'	-9.69	1.38	1.53
85	A5	2422	C	C2'-C1'	-9.69	1.38	1.53
36	B2	424	C	O4'-C1'	9.69	1.56	1.41
36	B2	1274	G	C2'-C1'	-9.69	1.38	1.53
85	A5	695	G	O4'-C1'	9.68	1.56	1.41
85	A5	2869	U	O4'-C1'	9.68	1.56	1.41
85	A5	3671	G	C2'-C1'	-9.67	1.38	1.53
85	A5	4970	C	O4'-C1'	9.67	1.56	1.41
85	A5	1470	G	C2'-C1'	-9.67	1.38	1.53
36	B2	520	A	C2'-C1'	-9.67	1.38	1.53
85	A5	2709	C	O4'-C1'	9.67	1.56	1.41
85	A5	1649	U	C2'-C1'	-9.66	1.38	1.53
85	A5	4503	A	C2'-C1'	-9.66	1.38	1.53
36	B2	489	A	O4'-C1'	9.65	1.56	1.41
87	A8	118	C	C2'-C1'	-9.65	1.38	1.53
36	B2	552	G	C2'-C1'	-9.65	1.38	1.53
85	A5	3863	C	O4'-C1'	9.65	1.56	1.41
85	A5	942	G	C2'-C1'	-9.64	1.38	1.53
85	A5	1298	C	O4'-C1'	9.64	1.56	1.41
85	A5	1305	C	O4'-C1'	9.64	1.56	1.41
45	Ca	96	GLY	CA-C	-9.63	1.40	1.52
85	A5	2435	G	C2'-C1'	-9.63	1.39	1.53
85	A5	973	G	O4'-C1'	9.63	1.56	1.41
36	B2	740	C	O4'-C1'	9.62	1.56	1.41
85	A5	4625	C	C2'-C1'	-9.62	1.39	1.53
85	A5	2323	C	C2'-C1'	-9.62	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	AL	151	THR	CA-C	9.62	1.64	1.52
36	B2	1373	C	O4'-C1'	9.61	1.56	1.41
86	A7	94	C	O4'-C1'	9.61	1.56	1.41
85	A5	4037	C	O4'-C1'	9.61	1.56	1.41
86	A7	9	C	O4'-C1'	9.60	1.56	1.41
36	B2	1777	G	C2'-C1'	-9.60	1.39	1.53
60	Cr	37	SER	CA-C	9.60	1.65	1.52
36	B2	1078	C	C2'-C1'	-9.60	1.39	1.53
85	A5	1318	C	O4'-C1'	9.60	1.56	1.41
85	A5	4627	U	C2'-C1'	-9.60	1.39	1.53
58	CW	24	THR	CA-C	-9.60	1.40	1.52
85	A5	1216	C	O4'-C1'	9.60	1.56	1.41
85	A5	1612	G	C2'-C1'	-9.59	1.38	1.53
85	A5	418	A	C2'-C1'	-9.59	1.39	1.53
85	A5	1076	C	C2'-C1'	-9.59	1.39	1.53
85	A5	23	C	O4'-C1'	9.58	1.56	1.41
36	B2	968	U	O4'-C1'	9.58	1.56	1.41
85	A5	4964	C	O4'-C1'	9.58	1.56	1.41
36	B2	1588	A	C2'-C1'	-9.57	1.39	1.53
86	A7	36	C	O4'-C1'	9.57	1.56	1.41
85	A5	2065	G	C2'-C1'	-9.57	1.39	1.53
47	CI	210	ARG	CA-C	-9.56	1.40	1.52
85	A5	3732	A	O4'-C1'	9.56	1.55	1.41
85	A5	703	G	O4'-C1'	-9.56	1.27	1.42
36	B2	645	C	O4'-C1'	9.56	1.55	1.41
85	A5	208	A	O4'-C1'	9.56	1.55	1.41
85	A5	1460	C	O4'-C1'	9.55	1.55	1.41
85	A5	4057	C	C2'-C1'	-9.55	1.39	1.53
85	A5	4962	C	O4'-C1'	9.55	1.55	1.41
36	B2	1551	U	C2'-C1'	-9.55	1.39	1.53
82	CG	179	VAL	CA-CB	-9.55	1.42	1.54
85	A5	1920	C	O4'-C1'	9.55	1.55	1.41
36	B2	816	A	O4'-C1'	9.55	1.55	1.41
36	B2	1720	U	C2'-C1'	9.55	1.67	1.53
31	AH	110	THR	CA-C	-9.55	1.40	1.52
85	A5	2404	A	O4'-C1'	9.54	1.55	1.41
85	A5	4139	G	C2'-C1'	-9.54	1.39	1.53
85	A5	4766	C	O4'-C1'	9.54	1.55	1.41
36	B2	1126	G	C2'-C1'	-9.53	1.39	1.53
36	B2	1605	G	C2'-C1'	-9.53	1.39	1.53
68	Cf	33	VAL	CA-C	-9.53	1.42	1.52
85	A5	2279	A	O4'-C1'	9.53	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1608	U	O4'-C1'	9.53	1.55	1.41
60	Cr	36	ASN	N-CA	9.53	1.57	1.46
36	B2	317	C	O4'-C1'	9.52	1.55	1.41
85	A5	516	C	O4'-C1'	9.52	1.55	1.41
85	A5	1596	U	C2'-C1'	-9.52	1.39	1.53
85	A5	3750	G	C2'-C1'	-9.52	1.39	1.53
85	A5	929	A	C2'-C1'	-9.52	1.39	1.53
36	B2	1394	G	C2'-C1'	-9.52	1.39	1.53
85	A5	3814	U	C2'-C1'	-9.51	1.39	1.53
36	B2	843	C	O4'-C1'	9.51	1.55	1.41
85	A5	2592	U	C2'-C1'	-9.51	1.39	1.53
60	Cr	112	ARG	CA-C	-9.51	1.40	1.52
85	A5	107	G	C2'-C1'	-9.51	1.39	1.53
85	A5	954	C	O4'-C1'	9.51	1.55	1.41
85	A5	1615	C	O4'-C1'	9.51	1.55	1.41
85	A5	2727	C	C2'-C1'	-9.51	1.39	1.53
85	A5	409	G	O4'-C1'	9.50	1.56	1.42
85	A5	4886	C	C2'-C1'	-9.50	1.39	1.53
85	A5	4329	G	O4'-C1'	-9.50	1.27	1.41
81	CE	27	VAL	N-CA	-9.49	1.28	1.46
85	A5	4659	G	O4'-C1'	9.49	1.55	1.41
36	B2	875	A	O4'-C1'	9.49	1.55	1.41
85	A5	2761	U	C2'-C1'	-9.49	1.39	1.53
85	A5	3804	G	C2'-C1'	-9.49	1.39	1.53
85	A5	1579	C	O4'-C1'	9.48	1.55	1.41
87	A8	99	U	O4'-C1'	9.48	1.55	1.41
1	Az	669	VAL	CA-C	9.48	1.62	1.53
85	A5	69	A	O4'-C1'	9.48	1.55	1.41
85	A5	2513	A	O4'-C1'	9.48	1.56	1.42
36	B2	1230	C	O4'-C1'	9.48	1.55	1.41
85	A5	2861	C	O4'-C1'	9.48	1.55	1.41
85	A5	175	C	O4'-C1'	9.47	1.55	1.41
36	B2	905	C	O4'-C1'	9.47	1.55	1.41
57	CY	86	GLN	CA-C	9.47	1.64	1.52
85	A5	1768	C	O4'-C1'	9.47	1.56	1.42
85	A5	1950	U	O4'-C1'	9.47	1.55	1.41
85	A5	1995	G	C2'-C1'	-9.47	1.39	1.53
85	A5	3873	G	C2'-C1'	-9.47	1.39	1.53
85	A5	2713	C	O4'-C1'	9.46	1.55	1.41
36	B2	1520	G	C2'-C1'	-9.46	1.39	1.53
86	A7	26	C	O4'-C1'	9.46	1.55	1.41
85	A5	2250	C	O4'-C1'	9.45	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4288	C	O4'-C1'	9.45	1.55	1.41
85	A5	1810	G	C2'-C1'	-9.45	1.39	1.53
85	A5	2690	C	O4'-C1'	9.45	1.55	1.41
85	A5	3799	A	O4'-C1'	9.45	1.55	1.41
29	AG	131	ARG	C-O	-9.44	1.12	1.23
85	A5	28	C	O4'-C1'	9.45	1.55	1.41
85	A5	2105	A	C2'-C1'	-9.44	1.39	1.53
18	AY	86	GLU	C-N	9.44	1.55	1.33
85	A5	1769	G	O4'-C1'	9.44	1.55	1.41
85	A5	3670	C	O4'-C1'	9.44	1.55	1.41
85	A5	4305	G	C2'-C1'	-9.44	1.38	1.53
85	A5	4667	C	O4'-C1'	9.44	1.55	1.41
85	A5	2621	A	O4'-C1'	9.44	1.55	1.41
85	A5	2469	C	C2'-C1'	9.44	1.67	1.53
85	A5	2753	G	C2'-C1'	-9.44	1.39	1.53
85	A5	421	C	C2'-C1'	-9.43	1.39	1.53
85	A5	4153	C	O4'-C1'	9.43	1.55	1.41
85	A5	3722	G	C2'-C1'	-9.43	1.39	1.53
36	B2	1590	C	O4'-C1'	9.42	1.55	1.41
36	B2	1798	C	C2'-C1'	-9.42	1.39	1.53
85	A5	128	C	O4'-C1'	9.42	1.55	1.41
36	B2	498	C	O4'-C1'	9.41	1.55	1.41
36	B2	674	C	O4'-C1'	9.41	1.55	1.41
85	A5	3591	C	O4'-C1'	9.41	1.55	1.41
85	A5	916	C	O4'-C1'	9.40	1.55	1.41
36	B2	730	C	C2'-C1'	-9.40	1.39	1.53
38	Cz	26	ARG	CA-C	-9.40	1.40	1.52
85	A5	1599	A	C2'-C1'	-9.40	1.39	1.53
74	CC	266	THR	CA-C	-9.40	1.39	1.53
85	A5	3791	C	O4'-C1'	9.40	1.56	1.42
85	A5	5031	G	C2'-C1'	-9.40	1.39	1.53
85	A5	3792	G	C2'-C1'	-9.40	1.39	1.53
85	A5	988	C	O4'-C1'	9.39	1.55	1.41
36	B2	1583	C	O4'-C1'	9.39	1.55	1.41
40	CK	114	ARG	C-N	-9.39	1.20	1.33
85	A5	4642	U	O4'-C1'	9.39	1.55	1.41
85	A5	2716	C	O4'-C1'	9.38	1.55	1.41
85	A5	2874	U	C2'-C1'	-9.39	1.39	1.53
85	A5	4741	C	O4'-C1'	9.38	1.55	1.41
85	A5	2400	G	C2'-C1'	-9.38	1.39	1.53
85	A5	700	G	C2'-C1'	-9.38	1.39	1.53
85	A5	3814	U	O4'-C1'	9.38	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
86	A7	6	C	O4'-C1'	9.37	1.55	1.41
37	BC	55	C	O4'-C1'	9.37	1.55	1.41
85	A5	1429	C	O4'-C1'	9.37	1.55	1.41
85	A5	1469	C	O4'-C1'	9.37	1.55	1.41
85	A5	2534	C	O4'-C1'	9.37	1.55	1.41
85	A5	4590	A	O4'-C1'	9.36	1.55	1.41
87	A8	21	C	O4'-C1'	9.36	1.55	1.41
85	A5	3751	G	C2'-C1'	-9.36	1.39	1.53
85	A5	4137	C	O4'-C1'	9.36	1.55	1.41
85	A5	4904	G	C2'-C1'	-9.36	1.39	1.53
86	A7	110	G	O4'-C1'	9.36	1.55	1.41
81	CE	31	ASN	N-CA	9.35	1.58	1.46
81	CE	32	LEU	CB-CG	9.35	1.72	1.53
85	A5	503	C	O4'-C1'	9.35	1.55	1.41
87	A8	146	U	O4'-C1'	9.35	1.55	1.41
6	AX	23	HIS	N-CA	-9.35	1.34	1.46
28	AC	134	ASN	CA-C	-9.35	1.41	1.53
36	B2	472	C	O4'-C1'	9.35	1.55	1.41
85	A5	1099	C	O4'-C1'	9.35	1.55	1.41
36	B2	442	C	O4'-C1'	9.35	1.55	1.41
85	A5	1798	G	C2'-C1'	-9.34	1.39	1.53
85	A5	4119	C	O4'-C1'	-9.34	1.27	1.41
87	A8	9	A	O4'-C1'	9.34	1.55	1.41
39	Cq	57	LYS	CA-C	-9.34	1.40	1.52
36	B2	872	A	O4'-C1'	-9.34	1.27	1.42
36	B2	1843	G	C2'-C1'	-9.34	1.39	1.53
85	A5	2329	U	C2'-C1'	-9.34	1.39	1.53
85	A5	2747	U	O4'-C1'	9.34	1.55	1.41
85	A5	3636	C	C2'-C1'	-9.34	1.39	1.53
85	A5	2800	G	C2'-C1'	-9.33	1.39	1.53
85	A5	4354	U	O4'-C1'	-9.33	1.27	1.42
60	Cr	31	ASN	CA-C	-9.33	1.40	1.52
36	B2	1452	A	O4'-C1'	9.32	1.55	1.42
36	B2	1262	C	O4'-C1'	9.32	1.55	1.41
85	A5	133	C	C2'-C1'	-9.32	1.39	1.53
85	A5	4877	G	O4'-C1'	-9.32	1.27	1.42
36	B2	1713	C	O4'-C1'	9.32	1.55	1.41
85	A5	1478	C	C2'-C1'	-9.32	1.39	1.53
85	A5	4634	U	C2'-C1'	-9.32	1.39	1.53
85	A5	1856	C	O4'-C1'	9.32	1.55	1.41
36	B2	857	U	C2'-C1'	-9.31	1.39	1.53
85	A5	683	C	O4'-C1'	9.31	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
66	Cd	114	PHE	CA-C	-9.31	1.40	1.53
85	A5	391	U	C2'-C1'	-9.31	1.39	1.53
85	A5	2053	C	C2'-C1'	-9.31	1.39	1.53
36	B2	291	G	C2'-C1'	-9.31	1.39	1.53
85	A5	148	C	C2'-C1'	-9.31	1.39	1.53
85	A5	4586	G	C2'-C1'	-9.31	1.39	1.53
85	A5	4226	G	C2'-C1'	-9.31	1.39	1.53
85	A5	199	G	O4'-C1'	9.30	1.55	1.42
85	A5	239	C	C2'-C1'	-9.30	1.39	1.53
85	A5	1517	G	C2'-C1'	-9.30	1.39	1.53
85	A5	2086	G	C2'-C1'	-9.30	1.39	1.53
85	A5	2702	C	O4'-C1'	9.30	1.55	1.41
36	B2	1164	G	C2'-C1'	-9.29	1.39	1.53
85	A5	155	C	O4'-C1'	9.29	1.55	1.41
85	A5	4866	C	C2'-C1'	-9.29	1.39	1.53
28	AC	62	PRO	N-CD	9.28	1.60	1.47
36	B2	283	G	C2'-C1'	-9.28	1.39	1.53
85	A5	275	C	O4'-C1'	9.27	1.55	1.41
85	A5	205	C	C2'-C1'	-9.27	1.39	1.53
85	A5	2492	C	O4'-C1'	9.27	1.55	1.41
85	A5	4772	C	O4'-C1'	9.27	1.55	1.41
85	A5	5014	A	O4'-C1'	9.27	1.55	1.41
85	A5	4165	C	O4'-C1'	9.26	1.55	1.41
36	B2	979	C	O4'-C1'	9.26	1.55	1.41
85	A5	1698	C	O4'-C1'	9.26	1.55	1.41
36	B2	1052	A	O4'-C1'	9.26	1.55	1.41
36	B2	1213	C	O4'-C1'	9.26	1.55	1.41
38	Cz	25	ARG	C-N	-9.26	1.20	1.33
85	A5	521	C	O4'-C1'	9.25	1.55	1.41
85	A5	712	C	O4'-C1'	9.25	1.55	1.41
81	CE	38	LYS	CA-C	9.25	1.65	1.52
85	A5	1331	C	O4'-C1'	9.25	1.55	1.41
1	Az	109	VAL	CA-CB	-9.25	1.41	1.54
17	AV	78	ILE	N-CA	9.25	1.63	1.46
85	A5	304	C	C2'-C1'	-9.25	1.39	1.53
85	A5	1900	C	C2'-C1'	-9.25	1.39	1.53
85	A5	2257	C	O4'-C1'	9.24	1.55	1.42
36	B2	650	A	O4'-C1'	9.24	1.55	1.41
85	A5	410	A	C2'-C1'	-9.24	1.39	1.53
36	B2	1204	A	O4'-C1'	9.24	1.55	1.41
36	B2	1637	A	C2'-C1'	9.24	1.67	1.53
85	A5	1680	G	O4'-C1'	9.24	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1500	G	O4'-C1'	9.24	1.55	1.41
85	A5	1535	C	C2'-C1'	-9.24	1.39	1.53
36	B2	1180	C	O4'-C1'	9.23	1.55	1.41
85	A5	1353	G	C2'-C1'	-9.23	1.39	1.53
85	A5	4053	A	C2'-C1'	-9.23	1.39	1.53
6	AX	115	ILE	N-CA	-9.23	1.38	1.46
16	AA	200	ASP	CA-C	-9.23	1.40	1.52
36	B2	556	U	C2'-C1'	-9.23	1.39	1.53
36	B2	1792	G	C2'-C1'	-9.22	1.39	1.53
85	A5	1662	C	C2'-C1'	-9.22	1.39	1.53
87	A8	103	A	O4'-C1'	9.22	1.55	1.41
86	A7	85	G	C2'-C1'	-9.22	1.39	1.53
85	A5	1990	A	O4'-C1'	9.21	1.55	1.41
85	A5	141	C	O4'-C1'	9.21	1.55	1.41
2	Ag	143	GLN	CA-C	-9.21	1.40	1.52
33	AI	125	LYS	CA-C	9.21	1.64	1.52
85	A5	469	C	C2'-C1'	-9.20	1.39	1.53
85	A5	1808	C	O4'-C1'	9.20	1.55	1.41
85	A5	2336	G	O4'-C1'	9.20	1.55	1.41
36	B2	1440	C	C2'-C1'	-9.20	1.39	1.53
85	A5	985	C	O4'-C1'	9.20	1.55	1.41
85	A5	4643	G	C2'-C1'	-9.20	1.39	1.53
36	B2	155	G	C2'-C1'	-9.19	1.39	1.53
85	A5	2731	C	O4'-C1'	9.19	1.55	1.41
36	B2	490	C	O4'-C1'	9.19	1.55	1.41
36	B2	365	C	O4'-C1'	9.19	1.55	1.41
8	AS	82	TRP	CA-CB	-9.18	1.37	1.53
85	A5	1269	G	O4'-C1'	9.18	1.55	1.41
85	A5	4422	A	O4'-C1'	9.18	1.55	1.41
85	A5	4598	C	O4'-C1'	9.18	1.55	1.41
85	A5	5013	C	O4'-C1'	9.18	1.55	1.42
87	A8	119	C	O4'-C1'	9.18	1.55	1.41
36	B2	1163	C	O4'-C1'	9.17	1.55	1.41
85	A5	3864	C	O4'-C1'	9.17	1.55	1.41
85	A5	3880	G	C2'-C1'	-9.17	1.39	1.53
37	BC	55	C	C2'-C1'	-9.17	1.39	1.53
85	A5	2269	C	O4'-C1'	9.17	1.55	1.41
85	A5	3966	A	O4'-C1'	9.17	1.55	1.41
36	B2	802	A	C2'-C1'	-9.16	1.39	1.53
85	A5	4670	C	O4'-C1'	9.16	1.55	1.41
36	B2	1485	U	O4'-C1'	9.16	1.55	1.41
85	A5	236	G	C2'-C1'	-9.16	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ch	37	THR	C-N	9.16	1.46	1.33
85	A5	3935	C	O4'-C1'	9.16	1.55	1.41
85	A5	1432	G	C2'-C1'	-9.15	1.39	1.53
36	B2	745	C	C2'-C1'	-9.15	1.39	1.53
60	Cr	115	SER	CA-C	9.15	1.65	1.52
26	AJ	17	ARG	CA-C	-9.15	1.40	1.52
85	A5	1853	G	O4'-C1'	-9.15	1.28	1.42
36	B2	911	C	C2'-C1'	-9.14	1.39	1.53
86	A7	104	C	O4'-C1'	9.14	1.55	1.41
36	B2	570	C	O4'-C1'	9.14	1.55	1.41
63	CB	16	PHE	C-N	-9.14	1.14	1.33
85	A5	1298	C	C2'-C1'	-9.14	1.39	1.53
85	A5	2664	G	C2'-C1'	-9.14	1.39	1.53
85	A5	3837	C	O4'-C1'	9.14	1.55	1.41
36	B2	1169	G	C2'-C1'	-9.14	1.39	1.53
85	A5	1290	G	C2'-C1'	-9.14	1.39	1.53
36	B2	1067	C	C2'-C1'	-9.13	1.39	1.53
85	A5	658	C	O4'-C1'	9.13	1.55	1.41
85	A5	4672	A	O4'-C1'	9.13	1.55	1.41
86	A7	24	C	C2'-C1'	-9.13	1.39	1.53
85	A5	356	G	C2'-C1'	-9.13	1.39	1.53
37	BC	74	C	O4'-C1'	9.12	1.55	1.41
85	A5	1520	C	O4'-C1'	9.12	1.55	1.41
85	A5	3660	C	O4'-C1'	9.12	1.55	1.41
36	B2	1083	A	C2'-C1'	-9.12	1.39	1.53
85	A5	1107	C	O4'-C1'	9.12	1.55	1.41
63	CB	112	ASP	CA-C	-9.11	1.40	1.52
85	A5	4929	C	C2'-C1'	-9.11	1.39	1.53
85	A5	2589	C	O4'-C1'	9.11	1.55	1.41
85	A5	123	C	O4'-C1'	9.10	1.55	1.41
85	A5	367	C	O4'-C1'	9.10	1.55	1.41
46	CN	197	THR	CA-C	-9.10	1.41	1.52
36	B2	1784	G	O4'-C1'	9.10	1.55	1.41
81	CE	70	LYS	C-N	-9.10	1.20	1.33
85	A5	4556	U	O4'-C1'	9.10	1.55	1.42
85	A5	1540	C	C2'-C1'	-9.09	1.39	1.53
36	B2	142	C	O4'-C1'	-9.09	1.28	1.42
85	A5	1219	G	C2'-C1'	-9.09	1.39	1.53
85	A5	1557	C	O4'-C1'	9.09	1.55	1.41
85	A5	4951	G	C2'-C1'	-9.09	1.39	1.53
8	AS	10	GLN	CA-C	9.09	1.65	1.52
36	B2	459	C	O4'-C1'	9.09	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2875	C	O4'-C1'	9.08	1.55	1.42
85	A5	3924	C	O4'-C1'	9.08	1.55	1.41
85	A5	4409	C	O4'-C1'	9.08	1.55	1.41
4	AK	35	LEU	CA-C	-9.08	1.40	1.52
36	B2	1266	C	C2'-C1'	-9.08	1.39	1.53
81	CE	62	MET	C-N	9.08	1.46	1.33
85	A5	447	C	C2'-C1'	-9.08	1.39	1.53
85	A5	2258	C	C2'-C1'	-9.08	1.39	1.53
85	A5	4046	A	O4'-C1'	9.08	1.55	1.41
85	A5	1250	C	C2'-C1'	-9.08	1.39	1.53
85	A5	1254	A	C2'-C1'	-9.08	1.39	1.53
36	B2	539	C	O4'-C1'	9.07	1.55	1.41
36	B2	1380	C	C2'-C1'	-9.07	1.39	1.53
85	A5	2850	A	O4'-C1'	9.07	1.55	1.41
85	A5	910	G	C2'-C1'	-9.07	1.39	1.53
85	A5	2294	G	C2'-C1'	-9.07	1.39	1.53
85	A5	1249	C	O4'-C1'	9.07	1.55	1.41
29	AG	131	ARG	CG-CD	9.07	1.79	1.52
36	B2	426	A	O4'-C1'	9.07	1.55	1.41
36	B2	557	U	O4'-C1'	9.07	1.55	1.41
85	A5	3698	G	C2'-C1'	-9.07	1.39	1.53
2	Ag	12	LYS	CA-C	-9.07	1.43	1.53
36	B2	362	C	O4'-C1'	9.07	1.55	1.41
85	A5	2855	G	O4'-C1'	9.07	1.55	1.42
85	A5	2872	C	O4'-C1'	9.07	1.55	1.41
36	B2	656	G	C2'-C1'	-9.06	1.39	1.53
85	A5	4562	C	C2'-C1'	-9.06	1.39	1.53
36	B2	648	A	C2'-C1'	-9.06	1.39	1.53
38	Cz	27	LYS	C-N	9.06	1.46	1.33
1	Az	111	PHE	CA-CB	9.06	1.67	1.53
36	B2	643	A	O4'-C1'	9.06	1.55	1.42
85	A5	4614	G	C2'-C1'	-9.06	1.39	1.53
85	A5	1555	G	C2'-C1'	-9.06	1.39	1.53
36	B2	632	C	C2'-C1'	-9.05	1.39	1.53
74	CC	155	GLU	CA-C	-9.05	1.40	1.52
85	A5	1292	C	O4'-C1'	9.05	1.55	1.41
36	B2	497	C	O4'-C1'	9.05	1.55	1.41
36	B2	937	C	O4'-C1'	9.05	1.55	1.41
36	B2	1109	C	O4'-C1'	-9.05	1.28	1.41
85	A5	1206	C	O4'-C1'	9.05	1.55	1.41
85	A5	3638	G	C2'-C1'	-9.05	1.39	1.53
85	A5	4874	A	O4'-C1'	-9.05	1.28	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	194	C	C2'-C1'	-9.05	1.39	1.53
85	A5	244	G	O4'-C1'	9.05	1.55	1.41
36	B2	752	G	C2'-C1'	-9.04	1.39	1.53
87	A8	145	C	O4'-C1'	9.04	1.55	1.41
85	A5	1985	G	O4'-C1'	9.04	1.55	1.41
36	B2	1761	U	O4'-C1'	9.04	1.55	1.41
85	A5	2784	C	O4'-C1'	9.04	1.55	1.41
4	AK	89	ILE	N-CA	-9.03	1.35	1.46
36	B2	985	G	C2'-C1'	-9.03	1.39	1.53
85	A5	163	A	C2'-C1'	-9.03	1.39	1.53
85	A5	422	C	C2'-C1'	-9.03	1.39	1.53
85	A5	3847	C	O4'-C1'	9.03	1.55	1.41
36	B2	568	C	O4'-C1'	9.02	1.55	1.41
36	B2	1705	C	O4'-C1'	9.02	1.55	1.41
85	A5	991	C	O4'-C1'	9.02	1.55	1.41
36	B2	1402	A	O4'-C1'	9.02	1.55	1.41
36	B2	621	C	C2'-C1'	-9.01	1.39	1.53
36	B2	1578	U	O4'-C1'	-9.01	1.28	1.42
85	A5	410	A	O4'-C1'	9.01	1.55	1.41
85	A5	238	C	O4'-C1'	9.00	1.55	1.41
85	A5	481	G	C2'-C1'	-9.00	1.39	1.53
85	A5	4912	G	O4'-C1'	9.00	1.55	1.41
85	A5	1398	A	O4'-C1'	-9.00	1.28	1.42
85	A5	4261	C	C2'-C1'	-9.00	1.39	1.53
85	A5	1102	U	C2'-C1'	9.00	1.66	1.53
36	B2	170	A	O4'-C1'	-9.00	1.28	1.41
36	B2	1330	G	C2'-C1'	-8.99	1.39	1.53
38	Cz	26	ARG	N-CA	-8.99	1.34	1.46
36	B2	1316	C	C2'-C1'	-8.99	1.39	1.53
36	B2	1006	C	C2'-C1'	-8.98	1.39	1.53
85	A5	1644	C	C2'-C1'	-8.98	1.39	1.53
85	A5	1661	C	O4'-C1'	8.98	1.55	1.41
85	A5	4662	C	C2'-C1'	-8.98	1.39	1.53
85	A5	1676	C	O4'-C1'	8.98	1.55	1.41
69	Cg	83	CYS	C-N	8.97	1.46	1.33
85	A5	1598	C	O4'-C1'	8.97	1.55	1.41
85	A5	2874	U	O4'-C1'	8.97	1.55	1.42
85	A5	4074	C	O4'-C1'	8.97	1.55	1.41
85	A5	2507	A	O4'-C1'	8.97	1.55	1.41
85	A5	2078	C	O4'-C1'	8.97	1.55	1.41
85	A5	339	C	O4'-C1'	8.96	1.55	1.41
85	A5	4466	C	O4'-C1'	8.97	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	476	G	C2'-C1'	-8.96	1.40	1.53
52	CS	88	SER	CA-C	-8.96	1.40	1.52
86	A7	63	C	O4'-C1'	8.96	1.55	1.41
36	B2	1007	C	C2'-C1'	-8.96	1.40	1.53
36	B2	1578	U	C2'-C1'	8.96	1.66	1.53
85	A5	1050	C	O4'-C1'	8.95	1.55	1.41
86	A7	91	C	O4'-C1'	8.95	1.55	1.41
80	CH	190	ALA	N-CA	-8.95	1.34	1.46
36	B2	1080	A	O4'-C1'	-8.95	1.28	1.42
42	CL	166	ALA	N-CA	-8.95	1.34	1.46
69	Cg	82	MET	N-CA	-8.95	1.35	1.45
37	BC	60	C	C2'-C1'	-8.95	1.40	1.53
85	A5	1451	G	C2'-C1'	-8.95	1.40	1.53
85	A5	2412	A	C2'-C1'	-8.94	1.40	1.53
85	A5	2455	G	C2'-C1'	-8.94	1.40	1.53
36	B2	326	C	O4'-C1'	8.94	1.55	1.42
36	B2	379	C	C2'-C1'	-8.94	1.40	1.53
86	A7	57	C	O4'-C1'	8.94	1.55	1.41
85	A5	1624	G	C2'-C1'	-8.94	1.39	1.53
36	B2	34	U	C2'-C1'	-8.93	1.40	1.53
36	B2	1687	C	O4'-C1'	8.93	1.55	1.41
85	A5	4102	C	O4'-C1'	8.93	1.55	1.41
36	B2	1137	U	O4'-C1'	8.93	1.55	1.41
87	A8	28	C	O4'-C1'	8.93	1.55	1.41
8	AS	6	PRO	CA-C	8.93	1.71	1.52
85	A5	1336	G	C2'-C1'	-8.93	1.40	1.53
85	A5	1573	G	C2'-C1'	-8.93	1.40	1.53
85	A5	4870	G	O4'-C1'	8.93	1.55	1.42
36	B2	1070	A	C2'-C1'	-8.93	1.40	1.53
36	B2	233	C	O4'-C1'	8.93	1.55	1.41
66	Cd	114	PHE	C-O	-8.93	1.13	1.23
85	A5	3587	C	C2'-C1'	-8.93	1.40	1.53
85	A5	3956	G	O4'-C1'	8.93	1.55	1.42
85	A5	4884	G	C2'-C1'	-8.93	1.39	1.53
36	B2	1304	U	C2'-C1'	-8.92	1.40	1.53
85	A5	1688	G	C2'-C1'	-8.92	1.40	1.53
36	B2	1132	C	O4'-C1'	8.92	1.55	1.41
48	CD	268	ARG	N-CA	-8.92	1.33	1.46
82	CG	108	GLN	CA-C	-8.92	1.41	1.52
85	A5	737	C	C2'-C1'	-8.92	1.40	1.53
85	A5	2248	C	O4'-C1'	8.92	1.55	1.41
85	A5	2615	C	O4'-C1'	8.92	1.55	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
87	A8	26	C	O4'-C1'	8.92	1.55	1.41
6	AX	116	PRO	CA-C	8.91	1.65	1.52
36	B2	1547	C	C2'-C1'	-8.91	1.40	1.53
85	A5	2500	U	O4'-C1'	8.91	1.55	1.41
85	A5	196	C	O4'-C1'	8.91	1.55	1.41
85	A5	3731	C	O4'-C1'	8.91	1.55	1.41
85	A5	980	U	O4'-C1'	8.91	1.55	1.41
85	A5	4216	G	O4'-C1'	8.91	1.55	1.41
85	A5	4408	G	C2'-C1'	-8.91	1.40	1.53
85	A5	1096	C	O4'-C1'	8.91	1.55	1.41
85	A5	1663	C	O4'-C1'	8.91	1.55	1.41
85	A5	4453	C	O4'-C1'	8.91	1.55	1.41
36	B2	974	C	C2'-C1'	-8.90	1.40	1.53
81	CE	36	LYS	N-CA	-8.90	1.33	1.46
86	A7	67	C	O4'-C1'	8.90	1.55	1.41
87	A8	138	C	O4'-C1'	8.90	1.54	1.41
24	Ae	26	LYS	CA-C	-8.90	1.42	1.52
68	Cf	6	TRP	C-N	8.90	1.46	1.33
85	A5	655	C	O4'-C1'	8.90	1.54	1.41
85	A5	2898	G	C2'-C1'	-8.89	1.40	1.53
85	A5	1594	C	O4'-C1'	8.89	1.54	1.41
36	B2	1841	C	O4'-C1'	8.89	1.54	1.41
85	A5	350	C	O4'-C1'	8.89	1.54	1.41
36	B2	143	U	O4'-C1'	8.89	1.55	1.42
36	B2	1833	C	O4'-C1'	8.88	1.54	1.41
36	B2	873	G	C2'-C1'	-8.88	1.40	1.53
85	A5	190	G	O4'-C1'	8.88	1.54	1.41
85	A5	1441	C	O4'-C1'	8.88	1.54	1.41
1	Az	72	SER	CA-C	-8.88	1.42	1.52
85	A5	948	C	O4'-C1'	8.88	1.54	1.41
85	A5	4558	U	O4'-C1'	8.88	1.54	1.41
85	A5	2506	G	O4'-C1'	8.87	1.55	1.42
81	CE	38	LYS	N-CA	8.87	1.57	1.46
85	A5	65	A	O4'-C1'	-8.87	1.28	1.42
36	B2	1118	C	C2'-C1'	8.86	1.66	1.53
36	B2	1581	C	O4'-C1'	8.87	1.55	1.42
36	B2	733	C	O4'-C1'	8.86	1.54	1.41
85	A5	292	G	O4'-C1'	8.86	1.54	1.41
36	B2	1169	G	O4'-C1'	8.86	1.54	1.41
85	A5	4068	U	C2'-C1'	-8.86	1.40	1.53
36	B2	1529	C	C2'-C1'	-8.86	1.40	1.53
36	B2	392	A	O4'-C1'	8.85	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	688	U	O4'-C1'	8.85	1.54	1.41
85	A5	4578	G	C2'-C1'	-8.85	1.40	1.53
85	A5	2320	G	C2'-C1'	-8.85	1.40	1.53
36	B2	56	G	C2'-C1'	-8.84	1.40	1.53
40	CK	2	PRO	C-N	8.84	1.54	1.33
85	A5	1250	C	O4'-C1'	8.84	1.54	1.41
85	A5	4090	G	C2'-C1'	-8.84	1.40	1.53
85	A5	524	C	O4'-C1'	8.84	1.54	1.41
85	A5	1188	C	O4'-C1'	8.84	1.54	1.41
85	A5	2759	G	O4'-C1'	8.84	1.54	1.41
85	A5	4039	G	C2'-C1'	-8.83	1.40	1.53
85	A5	3586	G	C2'-C1'	-8.83	1.40	1.53
85	A5	1850	A	C2'-C1'	-8.83	1.40	1.53
85	A5	2434	G	C2'-C1'	-8.83	1.40	1.53
57	CY	57	VAL	C-N	-8.82	1.21	1.33
85	A5	121	A	C2'-C1'	-8.82	1.40	1.53
85	A5	1477	C	O4'-C1'	8.82	1.54	1.41
85	A5	4426	C	C2'-C1'	-8.82	1.40	1.53
85	A5	3796	U	C2'-C1'	-8.82	1.40	1.53
85	A5	3915	U	O4'-C1'	8.82	1.54	1.41
36	B2	1276	A	O4'-C1'	8.81	1.54	1.41
60	Cr	36	ASN	C-N	8.81	1.46	1.33
85	A5	2100	A	C2'-C1'	-8.81	1.40	1.53
85	A5	4286	C	O4'-C1'	8.81	1.54	1.41
36	B2	1120	U	C2'-C1'	-8.81	1.40	1.53
36	B2	1789	G	O4'-C1'	8.81	1.54	1.41
85	A5	1807	C	O4'-C1'	8.81	1.54	1.41
36	B2	981	A	O4'-C1'	8.81	1.54	1.41
54	CP	5	SER	C-O	-8.81	1.12	1.24
85	A5	4197	G	C2'-C1'	-8.81	1.40	1.53
85	A5	1461	C	O4'-C1'	8.81	1.54	1.41
36	B2	1100	A	O4'-C1'	8.80	1.54	1.41
85	A5	4262	C	O4'-C1'	8.80	1.54	1.41
85	A5	462	G	C2'-C1'	-8.79	1.40	1.53
85	A5	4068	U	O4'-C1'	8.79	1.54	1.41
85	A5	675	C	O4'-C1'	8.79	1.54	1.41
67	Ce	17	THR	CA-CB	-8.79	1.39	1.54
85	A5	485	C	O4'-C1'	8.79	1.55	1.42
85	A5	4233	A	O4'-C1'	-8.79	1.28	1.42
85	A5	3684	G	O4'-C1'	8.78	1.54	1.41
85	A5	4487	A	O4'-C1'	8.78	1.54	1.41
82	CG	108	GLN	C-N	-8.78	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4675	U	C2'-C1'	-8.78	1.40	1.53
36	B2	76	U	O4'-C1'	8.78	1.54	1.41
36	B2	328	U	C2'-C1'	-8.77	1.40	1.53
39	Cq	68	HIS	C-N	8.77	1.46	1.33
85	A5	2784	C	C2'-C1'	-8.77	1.40	1.53
85	A5	4101	C	O4'-C1'	8.77	1.54	1.41
87	A8	65	A	O4'-C1'	8.77	1.54	1.41
85	A5	2853	C	O4'-C1'	8.77	1.54	1.41
36	B2	829	C	O4'-C1'	8.77	1.55	1.42
36	B2	1265	A	C2'-C1'	-8.77	1.40	1.53
36	B2	1742	C	C2'-C1'	-8.76	1.40	1.53
85	A5	5041	G	O4'-C1'	-8.76	1.28	1.41
60	Cr	106	LEU	N-CA	-8.76	1.35	1.46
72	Ck	62	PRO	CA-C	8.76	1.63	1.53
85	A5	4635	A	O4'-C1'	-8.76	1.28	1.42
85	A5	1097	C	O4'-C1'	8.76	1.54	1.41
36	B2	1284	A	O4'-C1'	8.76	1.55	1.42
49	CQ	152	PHE	N-CA	8.76	1.56	1.45
85	A5	1778	C	C2'-C1'	-8.76	1.40	1.53
85	A5	1431	C	O4'-C1'	8.75	1.54	1.41
36	B2	1316	C	O4'-C1'	8.75	1.54	1.41
85	A5	4996	C	C2'-C1'	-8.75	1.40	1.53
20	Aa	63	VAL	CA-C	8.74	1.63	1.52
85	A5	906	C	C2'-C1'	-8.74	1.40	1.53
85	A5	1686	C	C2'-C1'	-8.74	1.40	1.53
85	A5	1812	C	C2'-C1'	-8.74	1.40	1.53
67	Ce	3	ALA	CA-C	8.74	1.63	1.53
85	A5	4527	G	O4'-C1'	-8.74	1.28	1.42
74	CC	47	ASN	N-CA	-8.74	1.35	1.46
85	A5	957	G	O4'-C1'	-8.74	1.28	1.42
85	A5	5070	C	O4'-C1'	8.74	1.54	1.41
87	A8	155	C	O4'-C1'	8.74	1.54	1.41
85	A5	4584	A	O4'-C1'	8.74	1.54	1.41
85	A5	2616	C	O4'-C1'	8.74	1.54	1.41
36	B2	674	C	C2'-C1'	-8.73	1.40	1.53
85	A5	1489	G	C2'-C1'	-8.73	1.40	1.53
85	A5	2558	C	O4'-C1'	8.73	1.54	1.41
45	Ca	120	GLN	CA-CB	-8.73	1.39	1.53
85	A5	1089	G	O4'-C1'	-8.73	1.28	1.41
36	B2	149	A	O4'-C1'	8.72	1.54	1.41
36	B2	1753	C	O4'-C1'	8.72	1.54	1.41
74	CC	307	LYS	CA-CB	8.72	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1192	C	O4'-C1'	8.72	1.54	1.41
87	A8	5	U	C2'-C1'	-8.72	1.40	1.53
33	AI	6	ASP	N-CA	-8.72	1.34	1.46
85	A5	1346	C	O4'-C1'	8.72	1.54	1.41
85	A5	1915	C	C2'-C1'	-8.72	1.40	1.53
85	A5	906	C	O4'-C1'	8.72	1.54	1.41
10	AN	14	SER	CA-C	-8.71	1.41	1.53
85	A5	1921	C	O4'-C1'	8.71	1.55	1.42
85	A5	2330	G	O4'-C1'	8.71	1.54	1.41
85	A5	1628	C	O4'-C1'	8.71	1.54	1.41
85	A5	1762	C	O4'-C1'	8.71	1.54	1.41
85	A5	4540	C	O4'-C1'	8.71	1.54	1.41
85	A5	2850	A	C2'-C1'	-8.70	1.40	1.53
85	A5	4321	U	C2'-C1'	-8.70	1.40	1.53
36	B2	813	A	O4'-C1'	8.70	1.54	1.41
85	A5	5052	C	C2'-C1'	-8.70	1.40	1.53
85	A5	2866	C	C2'-C1'	-8.70	1.40	1.53
85	A5	346	G	O4'-C1'	-8.70	1.28	1.41
85	A5	4446	U	C2'-C1'	-8.70	1.40	1.53
36	B2	212	C	O4'-C1'	8.70	1.54	1.41
85	A5	2878	G	C2'-C1'	-8.70	1.40	1.53
85	A5	464	G	O4'-C1'	8.70	1.54	1.41
85	A5	2853	C	C2'-C1'	-8.69	1.40	1.53
36	B2	196	C	O4'-C1'	8.69	1.54	1.41
36	B2	1013	U	C2'-C1'	-8.69	1.40	1.53
36	B2	1408	U	C2'-C1'	-8.69	1.40	1.53
85	A5	1370	G	C2'-C1'	8.69	1.66	1.53
85	A5	3765	G	O4'-C1'	8.69	1.54	1.42
85	A5	4046	A	C2'-C1'	-8.69	1.40	1.53
85	A5	4115	G	C2'-C1'	-8.69	1.40	1.53
85	A5	4455	G	C2'-C1'	-8.69	1.40	1.53
85	A5	4900	C	C2'-C1'	-8.69	1.40	1.53
85	A5	1645	C	C2'-C1'	-8.69	1.40	1.53
36	B2	731	G	C2'-C1'	-8.68	1.40	1.53
85	A5	4749	C	C2'-C1'	8.68	1.66	1.53
36	B2	1381	G	O4'-C1'	-8.68	1.28	1.41
17	AV	31	SER	C-N	8.67	1.46	1.33
36	B2	960	U	O4'-C1'	8.67	1.54	1.41
36	B2	1793	A	O4'-C1'	8.67	1.54	1.41
85	A5	1520	C	C2'-C1'	-8.67	1.40	1.53
85	A5	3816	A	C2'-C1'	-8.67	1.40	1.53
85	A5	4553	A	O4'-C1'	8.66	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4944	C	C2'-C1'	-8.66	1.40	1.53
36	B2	1584	G	C2'-C1'	-8.66	1.40	1.53
81	CE	144	ILE	CA-CB	-8.66	1.44	1.54
85	A5	1655	C	O4'-C1'	8.66	1.54	1.41
85	A5	2540	C	O4'-C1'	8.66	1.54	1.41
85	A5	2825	A	C2'-C1'	-8.66	1.40	1.53
85	A5	4698	C	O4'-C1'	8.66	1.54	1.41
85	A5	2486	G	C2'-C1'	-8.66	1.40	1.53
85	A5	3708	C	C2'-C1'	-8.65	1.40	1.53
36	B2	1605	G	O4'-C1'	8.65	1.54	1.41
85	A5	1496	G	O4'-C1'	8.65	1.54	1.41
36	B2	1327	G	C2'-C1'	-8.65	1.40	1.53
85	A5	1634	A	O4'-C1'	8.65	1.54	1.41
36	B2	1828	C	O4'-C1'	8.65	1.54	1.41
85	A5	3878	C	O4'-C1'	8.65	1.54	1.42
85	A5	697	G	C2'-C1'	-8.64	1.40	1.53
85	A5	3649	A	O4'-C1'	8.64	1.54	1.41
85	A5	4168	G	C2'-C1'	-8.64	1.40	1.53
85	A5	2595	C	O4'-C1'	8.64	1.54	1.41
14	AT	93	SER	CA-C	-8.64	1.44	1.53
85	A5	2880	U	O4'-C1'	8.64	1.54	1.42
61	Ch	78	TYR	N-CA	-8.64	1.35	1.46
85	A5	2807	A	O4'-C1'	8.64	1.54	1.41
36	B2	496	C	O4'-C1'	8.63	1.54	1.41
37	BC	49	A	C2'-C1'	-8.63	1.40	1.53
67	Ce	17	THR	N-CA	-8.63	1.33	1.46
85	A5	755	C	O4'-C1'	8.63	1.54	1.41
85	A5	1264	C	O4'-C1'	8.63	1.54	1.41
85	A5	1455	G	C2'-C1'	-8.63	1.40	1.53
85	A5	4734	A	C2'-C1'	-8.63	1.40	1.53
11	AL	152	LYS	C-N	8.62	1.45	1.33
85	A5	1504	G	C2'-C1'	-8.62	1.40	1.53
85	A5	2794	C	O4'-C1'	8.62	1.54	1.42
85	A5	4611	A	C2'-C1'	-8.62	1.40	1.53
36	B2	67	C	C2'-C1'	8.62	1.66	1.53
85	A5	3938	G	O4'-C1'	-8.62	1.29	1.42
85	A5	133	C	O4'-C1'	8.62	1.54	1.41
85	A5	423	G	C2'-C1'	-8.62	1.40	1.53
85	A5	1393	G	O4'-C1'	8.62	1.54	1.41
85	A5	2246	C	O4'-C1'	8.62	1.54	1.41
85	A5	2662	G	C2'-C1'	-8.62	1.40	1.53
85	A5	4048	A	O4'-C1'	-8.62	1.29	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	3592	G	C2'-C1'	-8.61	1.40	1.53
86	A7	80	U	C2'-C1'	-8.61	1.40	1.53
36	B2	244	A	O4'-C1'	8.61	1.54	1.42
37	BC	44	G	C2'-C1'	-8.61	1.40	1.53
85	A5	501	C	O4'-C1'	8.61	1.54	1.41
36	B2	66	G	O4'-C1'	8.60	1.54	1.41
85	A5	1893	C	O4'-C1'	8.60	1.54	1.41
85	A5	904	C	O4'-C1'	8.60	1.54	1.41
85	A5	718	C	O4'-C1'	8.60	1.54	1.41
85	A5	1467	C	O4'-C1'	8.60	1.54	1.41
85	A5	951	G	C2'-C1'	-8.60	1.40	1.53
85	A5	1994	C	C2'-C1'	-8.59	1.40	1.53
36	B2	48	C	C2'-C1'	-8.59	1.40	1.53
85	A5	5029	C	O4'-C1'	8.59	1.54	1.41
85	A5	2295	C	O4'-C1'	8.59	1.54	1.41
85	A5	2864	A	O4'-C1'	8.59	1.54	1.41
85	A5	474	C	O4'-C1'	8.59	1.54	1.41
85	A5	3789	C	O4'-C1'	8.59	1.54	1.41
36	B2	975	G	C2'-C1'	-8.58	1.40	1.53
3	AU	107	GLU	CA-C	8.58	1.63	1.52
85	A5	2317	C	C2'-C1'	-8.58	1.40	1.53
85	A5	2379	A	O4'-C1'	8.58	1.54	1.41
85	A5	1857	C	O4'-C1'	8.57	1.54	1.41
36	B2	1199	A	C2'-C1'	-8.57	1.40	1.53
85	A5	1848	C	O4'-C1'	8.57	1.54	1.41
30	AF	43	GLU	CA-C	-8.57	1.41	1.52
36	B2	481	C	C2'-C1'	-8.57	1.40	1.53
85	A5	4710	C	C2'-C1'	-8.57	1.40	1.53
85	A5	489	C	O4'-C1'	8.57	1.54	1.41
85	A5	4945	G	C2'-C1'	-8.57	1.40	1.53
36	B2	543	C	O4'-C1'	8.56	1.54	1.41
85	A5	3625	G	O4'-C1'	8.56	1.54	1.41
85	A5	4125	C	C2'-C1'	-8.56	1.40	1.53
85	A5	4490	C	O4'-C1'	8.56	1.54	1.41
36	B2	680	G	C2'-C1'	-8.56	1.40	1.53
36	B2	1300	U	O4'-C1'	-8.56	1.29	1.42
85	A5	2736	G	C2'-C1'	-8.56	1.40	1.53
85	A5	5063	G	C2'-C1'	-8.55	1.40	1.53
85	A5	4892	A	O4'-C1'	8.55	1.54	1.41
36	B2	323	C	O4'-C1'	8.55	1.54	1.42
36	B2	406	U	C2'-C1'	-8.55	1.40	1.53
36	B2	1683	C	O4'-C1'	8.55	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1796	U	O4'-C1'	8.55	1.54	1.41
85	A5	4606	G	O4'-C1'	8.55	1.54	1.41
28	AC	277	HIS	CA-C	-8.55	1.41	1.52
36	B2	307	G	O4'-C1'	-8.55	1.28	1.41
36	B2	455	A	O4'-C1'	8.54	1.54	1.41
45	Ca	109	TYR	N-CA	-8.55	1.38	1.46
87	A8	80	A	C2'-C1'	-8.54	1.40	1.53
85	A5	4496	A	O4'-C1'	8.54	1.54	1.41
36	B2	111	A	O4'-C1'	-8.54	1.28	1.41
85	A5	274	C	O4'-C1'	8.54	1.54	1.41
1	Az	829	SER	CA-C	-8.54	1.42	1.52
85	A5	2044	U	C2'-C1'	-8.54	1.40	1.53
36	B2	950	C	O4'-C1'	8.53	1.54	1.41
85	A5	922	C	O4'-C1'	8.54	1.54	1.41
85	A5	1186	U	C2'-C1'	8.53	1.66	1.53
85	A5	4640	C	C2'-C1'	-8.53	1.40	1.53
36	B2	677	G	C2'-C1'	-8.53	1.40	1.53
60	Cr	106	LEU	C-N	8.53	1.45	1.33
85	A5	1721	G	C2'-C1'	-8.53	1.40	1.53
85	A5	1104	C	O4'-C1'	8.53	1.54	1.41
36	B2	559	G	C2'-C1'	-8.53	1.40	1.53
36	B2	1010	G	O4'-C1'	-8.53	1.28	1.41
85	A5	925	C	O4'-C1'	8.53	1.54	1.41
85	A5	1417	C	O4'-C1'	8.53	1.54	1.41
85	A5	947	C	O4'-C1'	8.52	1.54	1.41
26	AJ	144	ILE	C-N	8.52	1.44	1.34
49	CQ	12	LYS	N-CA	-8.52	1.36	1.46
85	A5	1832	C	C2'-C1'	-8.52	1.40	1.53
85	A5	69	A	C2'-C1'	-8.51	1.40	1.53
85	A5	1884	C	C2'-C1'	-8.51	1.40	1.53
85	A5	4488	A	O4'-C1'	-8.51	1.29	1.42
85	A5	1240	G	O4'-C1'	-8.51	1.28	1.41
85	A5	1878	G	C2'-C1'	-8.51	1.40	1.53
63	CB	248	LEU	C-N	8.51	1.44	1.33
85	A5	3969	G	C2'-C1'	-8.51	1.40	1.53
25	Af	136	PHE	CA-C	-8.51	1.42	1.52
36	B2	458	A	O4'-C1'	8.51	1.54	1.41
36	B2	549	C	C2'-C1'	-8.51	1.40	1.53
36	B2	649	U	C2'-C1'	-8.51	1.40	1.53
85	A5	2560	C	O4'-C1'	8.51	1.54	1.41
85	A5	1483	C	C2'-C1'	-8.50	1.40	1.53
85	A5	2818	C	O4'-C1'	8.50	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4900	C	O4'-C1'	8.50	1.54	1.42
85	A5	1515	A	O4'-C1'	8.50	1.54	1.41
85	A5	93	G	C2'-C1'	-8.50	1.40	1.53
36	B2	1116	C	O4'-C1'	-8.50	1.29	1.42
85	A5	33	A	O4'-C1'	8.50	1.54	1.41
85	A5	986	C	O4'-C1'	8.49	1.54	1.41
70	Ci	31	GLY	C-N	8.49	1.44	1.33
85	A5	1474	C	O4'-C1'	8.49	1.54	1.41
37	BC	47	C	O4'-C1'	8.49	1.54	1.42
85	A5	1554	A	O4'-C1'	8.48	1.54	1.41
85	A5	2073	C	O4'-C1'	8.48	1.54	1.41
85	A5	2863	G	O4'-C1'	8.48	1.54	1.41
36	B2	1320	G	O4'-C1'	-8.48	1.28	1.41
85	A5	1485	C	C2'-C1'	-8.48	1.40	1.53
36	B2	910	G	C2'-C1'	-8.48	1.40	1.53
36	B2	599	A	C2'-C1'	-8.47	1.40	1.53
36	B2	837	A	C2'-C1'	-8.47	1.40	1.53
85	A5	2131	C	C2'-C1'	-8.47	1.40	1.53
85	A5	5008	C	O4'-C1'	8.46	1.54	1.41
85	A5	4256	A	O4'-C1'	-8.46	1.28	1.41
36	B2	402	C	O4'-C1'	8.46	1.54	1.41
36	B2	692	G	C2'-C1'	-8.46	1.40	1.53
78	Co	67	VAL	C-N	8.46	1.45	1.33
85	A5	2817	C	O4'-C1'	8.45	1.54	1.41
85	A5	3732	A	C2'-C1'	-8.45	1.40	1.53
85	A5	4252	C	O4'-C1'	8.46	1.54	1.41
36	B2	855	G	C2'-C1'	-8.45	1.40	1.53
36	B2	1564	C	O4'-C1'	8.45	1.54	1.41
85	A5	358	C	C2'-C1'	-8.45	1.40	1.53
85	A5	2108	G	O4'-C1'	8.45	1.54	1.41
36	B2	678	U	C2'-C1'	-8.45	1.40	1.53
36	B2	67	C	O4'-C1'	-8.45	1.28	1.41
81	CE	119	GLU	CA-C	-8.45	1.41	1.52
85	A5	753	C	C2'-C1'	-8.45	1.40	1.53
85	A5	3835	C	O4'-C1'	8.44	1.54	1.41
28	AC	176	LYS	CA-C	-8.44	1.42	1.52
36	B2	809	A	C2'-C1'	-8.44	1.40	1.53
85	A5	465	G	C2'-C1'	-8.44	1.40	1.53
85	A5	1801	A	O4'-C1'	8.44	1.54	1.41
85	A5	3924	C	C2'-C1'	-8.44	1.40	1.53
39	Cq	263	GLU	N-CA	-8.43	1.35	1.46
85	A5	2116	C	O4'-C1'	8.43	1.54	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	436	C	O4'-C1'	8.43	1.54	1.41
85	A5	4546	A	C2'-C1'	-8.43	1.40	1.53
85	A5	972	C	C2'-C1'	8.43	1.66	1.53
85	A5	2264	C	O4'-C1'	8.43	1.54	1.41
85	A5	2613	C	O4'-C1'	8.43	1.54	1.41
85	A5	1727	U	O4'-C1'	8.42	1.54	1.41
85	A5	1276	C	O3'-P	-8.42	1.48	1.61
85	A5	2280	G	C2'-C1'	-8.42	1.40	1.53
85	A5	2418	A	O4'-C1'	8.42	1.54	1.41
85	A5	4158	C	O4'-C1'	8.42	1.54	1.41
36	B2	96	C	O4'-C1'	8.42	1.54	1.41
85	A5	1	C	O4'-C1'	8.41	1.54	1.41
85	A5	3699	C	C2'-C1'	-8.41	1.40	1.53
85	A5	1365	C	O4'-C1'	8.41	1.54	1.41
85	A5	4298	A	O4'-C1'	8.41	1.54	1.41
36	B2	667	U	O4'-C1'	8.41	1.54	1.41
40	CK	24	ALA	C-N	-8.41	1.23	1.33
85	A5	1668	A	O4'-C1'	8.41	1.54	1.41
36	B2	429	C	O4'-C1'	8.40	1.54	1.41
36	B2	1124	C	O4'-C1'	8.40	1.54	1.41
85	A5	3899	G	C2'-C1'	-8.40	1.40	1.53
85	A5	4916	G	C2'-C1'	-8.40	1.40	1.53
85	A5	2580	U	O4'-C1'	8.40	1.54	1.41
85	A5	2602	G	C2'-C1'	-8.40	1.40	1.53
85	A5	5001	U	C2'-C1'	-8.40	1.40	1.53
85	A5	3636	C	O4'-C1'	8.39	1.54	1.41
85	A5	5	A	O4'-C1'	8.39	1.54	1.41
85	A5	3655	C	O4'-C1'	8.39	1.54	1.41
36	B2	517	C	O4'-C1'	8.39	1.54	1.41
36	B2	1577	G	O4'-C1'	8.39	1.54	1.41
85	A5	419	A	C2'-C1'	-8.39	1.40	1.53
85	A5	2080	U	C2'-C1'	-8.39	1.40	1.53
74	CC	91	ALA	CA-CB	-8.39	1.38	1.53
85	A5	2443	G	C2'-C1'	-8.39	1.40	1.53
85	A5	4300	U	C2'-C1'	-8.39	1.40	1.53
87	A8	46	G	O4'-C1'	8.38	1.54	1.41
36	B2	980	A	C2'-C1'	-8.38	1.40	1.53
85	A5	1085	C	O4'-C1'	8.38	1.54	1.41
85	A5	112	C	C2'-C1'	-8.38	1.40	1.53
85	A5	4314	C	C2'-C1'	-8.38	1.40	1.53
85	A5	4470	G	C2'-C1'	-8.38	1.40	1.53
87	A8	115	G	O4'-C1'	8.38	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	686	A	C2'-C1'	8.38	1.66	1.53
85	A5	512	U	O4'-C1'	8.37	1.54	1.41
85	A5	4217	G	C2'-C1'	-8.37	1.40	1.53
85	A5	4367	G	C2'-C1'	-8.37	1.40	1.53
87	A8	14	U	O4'-C1'	8.37	1.54	1.41
36	B2	150	A	O4'-C1'	8.37	1.54	1.41
36	B2	321	C	O4'-C1'	8.37	1.54	1.41
85	A5	523	C	O4'-C1'	8.37	1.54	1.41
36	B2	1658	G	C2'-C1'	-8.37	1.40	1.53
85	A5	506	C	C2'-C1'	-8.37	1.40	1.53
85	A5	3932	U	O4'-C1'	8.36	1.54	1.41
33	AI	132	GLU	C-N	8.36	1.45	1.33
36	B2	569	A	C2'-C1'	-8.36	1.40	1.53
85	A5	921	C	O4'-C1'	8.36	1.54	1.41
85	A5	2087	C	C2'-C1'	-8.36	1.40	1.53
85	A5	4705	A	C2'-C1'	-8.36	1.40	1.53
85	A5	4887	C	C2'-C1'	-8.36	1.40	1.53
7	AM	116	LYS	N-CA	8.35	1.56	1.46
36	B2	1264	C	C2'-C1'	-8.35	1.40	1.53
85	A5	4568	A	O4'-C1'	8.35	1.54	1.41
85	A5	237	G	O4'-C1'	-8.35	1.29	1.41
1	Az	780	PRO	CA-C	8.34	1.64	1.52
81	CE	115	TYR	N-CA	-8.34	1.35	1.46
85	A5	1291	G	O4'-C1'	8.34	1.54	1.41
85	A5	4375	C	C2'-C1'	-8.34	1.40	1.53
36	B2	940	U	C2'-C1'	-8.34	1.40	1.53
85	A5	2872	C	C2'-C1'	-8.34	1.40	1.53
85	A5	1909	G	O4'-C1'	8.34	1.54	1.41
36	B2	297	A	C2'-C1'	-8.34	1.40	1.53
85	A5	4458	C	O4'-C1'	8.33	1.54	1.41
85	A5	1167	C	O4'-C1'	8.33	1.54	1.41
85	A5	3673	C	O4'-C1'	8.33	1.54	1.41
36	B2	333	G	C2'-C1'	-8.33	1.40	1.53
85	A5	2263	A	O4'-C1'	8.33	1.54	1.41
85	A5	2534	C	C2'-C1'	-8.33	1.40	1.53
60	Cr	103	ARG	C-N	8.33	1.53	1.33
85	A5	1362	G	C2'-C1'	-8.33	1.40	1.53
85	A5	3935	C	C2'-C1'	-8.33	1.40	1.53
85	A5	2393	C	O4'-C1'	8.33	1.54	1.41
85	A5	4196	G	C2'-C1'	-8.33	1.40	1.53
85	A5	3833	C	O4'-C1'	8.32	1.54	1.41
36	B2	951	C	C2'-C1'	-8.32	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	AH	111	LYS	N-CA	8.32	1.58	1.46
36	B2	750	C	C2'-C1'	-8.32	1.40	1.53
85	A5	1465	G	O4'-C1'	8.32	1.54	1.41
85	A5	2892	C	O4'-C1'	8.31	1.54	1.41
85	A5	4621	C	O4'-C1'	8.31	1.54	1.41
45	Ca	120	GLN	N-CA	-8.31	1.32	1.45
58	CW	24	THR	N-CA	-8.30	1.36	1.46
85	A5	4345	C	O4'-C1'	8.30	1.54	1.41
85	A5	1069	G	C2'-C1'	-8.30	1.40	1.53
85	A5	4764	A	C2'-C1'	-8.30	1.40	1.53
36	B2	1363	C	O4'-C1'	8.30	1.54	1.42
36	B2	1781	A	C2'-C1'	-8.30	1.41	1.53
85	A5	928	C	O4'-C1'	8.30	1.54	1.41
85	A5	3834	C	O4'-C1'	8.29	1.54	1.41
28	AC	208	PRO	N-CD	8.29	1.59	1.47
36	B2	345	U	C2'-C1'	-8.29	1.41	1.53
87	A8	17	A	O4'-C1'	8.29	1.54	1.41
31	AH	14	GLU	CA-C	-8.28	1.42	1.52
85	A5	2066	C	O4'-C1'	8.28	1.54	1.41
85	A5	2128	G	O4'-C1'	8.28	1.54	1.41
85	A5	1241	C	O4'-C1'	8.28	1.54	1.41
36	B2	1468	C	O4'-C1'	8.28	1.54	1.41
85	A5	70	A	O4'-C1'	-8.27	1.29	1.42
87	A8	35	C	O4'-C1'	8.27	1.54	1.41
36	B2	1019	C	C2'-C1'	-8.27	1.41	1.53
85	A5	1420	A	C2'-C1'	-8.27	1.40	1.53
85	A5	2515	G	C2'-C1'	-8.27	1.41	1.53
86	A7	68	C	C2'-C1'	-8.27	1.41	1.53
36	B2	405	G	C2'-C1'	-8.27	1.41	1.53
36	B2	462	C	C2'-C1'	-8.27	1.41	1.53
36	B2	747	U	O4'-C1'	8.26	1.54	1.41
37	BC	31	C	O4'-C1'	8.26	1.54	1.41
85	A5	1674	C	C2'-C1'	-8.26	1.41	1.53
36	B2	1029	G	C2'-C1'	-8.26	1.41	1.53
85	A5	1476	C	O4'-C1'	8.26	1.54	1.41
85	A5	4934	A	O4'-C1'	8.26	1.54	1.41
42	CL	4	SER	N-CA	-8.26	1.36	1.46
85	A5	1541	C	O4'-C1'	8.26	1.54	1.41
85	A5	3607	U	O4'-C1'	8.26	1.54	1.41
85	A5	683	C	C2'-C1'	-8.25	1.41	1.53
85	A5	2816	G	C2'-C1'	-8.25	1.41	1.53
85	A5	4739	C	O4'-C1'	8.25	1.54	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	173	A	O4'-C1'	8.24	1.54	1.41
85	A5	1400	G	C2'-C1'	-8.24	1.41	1.53
81	CE	30	GLY	C-N	8.24	1.45	1.33
85	A5	2456	G	C2'-C1'	-8.24	1.41	1.53
85	A5	3703	G	C2'-C1'	-8.24	1.41	1.53
36	B2	215	G	O4'-C1'	8.23	1.54	1.41
85	A5	1920	C	C2'-C1'	-8.23	1.41	1.53
36	B2	1206	G	C2'-C1'	-8.23	1.41	1.53
36	B2	1343	U	O4'-C1'	8.23	1.54	1.41
85	A5	947	C	C2'-C1'	-8.23	1.41	1.53
36	B2	1332	A	O4'-C1'	8.23	1.53	1.41
74	CC	321	ASN	N-CA	-8.23	1.35	1.46
85	A5	2658	G	C2'-C1'	-8.23	1.40	1.53
85	A5	2775	C	O4'-C1'	8.23	1.53	1.41
85	A5	1614	C	C2'-C1'	-8.23	1.41	1.53
85	A5	4486	C	O4'-C1'	8.23	1.53	1.41
85	A5	4262	C	C2'-C1'	-8.23	1.41	1.53
85	A5	4712	C	O4'-C1'	8.23	1.53	1.41
37	BC	44	G	O4'-C1'	8.22	1.53	1.41
85	A5	469	C	O4'-C1'	8.22	1.53	1.41
85	A5	1468	C	O4'-C1'	8.22	1.53	1.41
85	A5	406	C	C2'-C1'	-8.21	1.40	1.53
85	A5	1234	G	C2'-C1'	-8.21	1.41	1.53
85	A5	1515	A	C2'-C1'	-8.21	1.41	1.53
18	AY	91	LEU	N-CA	-8.21	1.36	1.46
36	B2	77	A	C2'-C1'	8.21	1.65	1.53
85	A5	520	C	O4'-C1'	8.20	1.53	1.41
36	B2	446	G	C2'-C1'	-8.20	1.41	1.53
81	CE	116	TYR	N-CA	8.20	1.57	1.46
85	A5	1908	A	O4'-C1'	8.20	1.53	1.41
85	A5	4995	U	O4'-C1'	8.20	1.53	1.41
85	A5	1900	C	O4'-C1'	8.19	1.53	1.41
36	B2	984	C	O4'-C1'	8.19	1.53	1.41
85	A5	244	G	C2'-C1'	-8.19	1.41	1.53
85	A5	693	C	O4'-C1'	8.19	1.53	1.41
85	A5	1589	C	C2'-C1'	-8.19	1.41	1.53
85	A5	3663	A	O4'-C1'	8.19	1.54	1.42
85	A5	2737	C	O4'-C1'	8.19	1.53	1.41
85	A5	3973	G	O4'-C1'	8.19	1.53	1.41
36	B2	294	U	O4'-C1'	8.18	1.54	1.42
85	A5	1551	C	O4'-C1'	8.18	1.53	1.41
28	AC	113	GLN	CA-C	8.18	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1996	C	O4'-C1'	8.18	1.53	1.41
85	A5	112	C	O4'-C1'	8.18	1.53	1.41
33	AI	133	GLU	C-N	8.18	1.44	1.33
36	B2	1033	G	O4'-C1'	8.17	1.53	1.41
85	A5	1643	A	O4'-C1'	8.17	1.53	1.41
86	A7	105	C	C2'-C1'	-8.17	1.41	1.53
36	B2	412	G	C2'-C1'	-8.16	1.41	1.53
85	A5	3797	C	O4'-C1'	8.16	1.53	1.41
82	CG	85	GLN	CA-C	-8.16	1.42	1.52
85	A5	1476	C	C2'-C1'	-8.16	1.41	1.53
85	A5	2050	G	C2'-C1'	-8.16	1.41	1.53
85	A5	2483	G	C2'-C1'	-8.16	1.41	1.53
36	B2	467	G	O4'-C1'	8.16	1.53	1.41
85	A5	1375	C	C2'-C1'	-8.15	1.41	1.53
81	CE	127	SER	CA-CB	8.15	1.66	1.53
85	A5	4087	G	C2'-C1'	-8.15	1.41	1.53
36	B2	357	C	C2'-C1'	-8.15	1.41	1.53
75	Cm	127	VAL	CA-C	-8.15	1.40	1.53
19	AZ	104	ARG	N-CA	-8.14	1.35	1.46
85	A5	197	A	O4'-C1'	8.14	1.53	1.41
85	A5	916	C	C2'-C1'	-8.14	1.41	1.53
36	B2	1407	U	C2'-C1'	-8.14	1.41	1.53
36	B2	1573	G	C2'-C1'	-8.14	1.41	1.53
11	AL	20	LYS	N-CA	-8.14	1.35	1.46
36	B2	510	G	C2'-C1'	-8.14	1.41	1.53
81	CE	118	THR	C-N	8.14	1.45	1.33
87	A8	107	C	O4'-C1'	8.14	1.53	1.41
85	A5	2478	C	O4'-C1'	8.14	1.53	1.41
61	Ch	4	ILE	CA-CB	-8.13	1.43	1.54
85	A5	1936	C	O4'-C1'	8.13	1.53	1.41
85	A5	2583	C	O4'-C1'	8.13	1.53	1.41
85	A5	2879	A	O4'-C1'	8.13	1.54	1.42
12	AR	89	SER	N-CA	8.13	1.56	1.46
85	A5	905	C	C2'-C1'	-8.13	1.41	1.53
40	CK	110	VAL	C-N	8.13	1.44	1.33
85	A5	373	G	O4'-C1'	-8.13	1.29	1.41
36	B2	1105	G	C2'-C1'	-8.13	1.41	1.53
85	A5	444	G	C2'-C1'	-8.12	1.41	1.53
36	B2	1105	G	O4'-C1'	8.12	1.53	1.41
37	BC	22	C	O4'-C1'	8.12	1.53	1.41
40	CK	111	ASN	C-N	-8.12	1.23	1.33
85	A5	1384	C	C2'-C1'	-8.12	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1776	A	O4'-C1'	8.12	1.53	1.41
85	A5	2841	G	C2'-C1'	-8.12	1.41	1.53
36	B2	1756	C	O4'-C1'	8.11	1.53	1.41
85	A5	1236	C	C2'-C1'	-8.11	1.41	1.53
85	A5	3599	A	C2'-C1'	-8.11	1.41	1.53
36	B2	1124	C	C2'-C1'	-8.11	1.41	1.53
85	A5	1204	C	O4'-C1'	8.11	1.53	1.41
85	A5	2807	A	C2'-C1'	-8.11	1.41	1.53
24	Ae	46	VAL	CA-C	-8.11	1.45	1.52
85	A5	3796	U	O4'-C1'	8.10	1.53	1.41
87	A8	145	C	C2'-C1'	-8.10	1.41	1.53
31	AH	36	LEU	CA-C	-8.10	1.41	1.52
85	A5	1280	C	O4'-C1'	8.10	1.54	1.42
85	A5	1443	A	O4'-C1'	8.10	1.53	1.41
85	A5	1973	G	C2'-C1'	-8.10	1.41	1.53
85	A5	1490	G	C2'-C1'	-8.10	1.41	1.53
36	B2	1305	C	O4'-C1'	8.10	1.53	1.41
86	A7	46	C	O4'-C1'	8.10	1.53	1.41
19	AZ	103	HIS	C-N	-8.09	1.22	1.33
85	A5	1181	C	C2'-C1'	-8.09	1.41	1.53
36	B2	942	G	C2'-C1'	-8.09	1.41	1.53
85	A5	1684	A	C2'-C1'	-8.09	1.41	1.53
87	A8	49	G	C2'-C1'	-8.09	1.41	1.53
36	B2	171	A	O4'-C1'	-8.08	1.29	1.42
36	B2	730	C	O4'-C1'	8.08	1.53	1.41
36	B2	1255	G	O4'-C1'	8.08	1.53	1.41
29	AG	180	VAL	CA-CB	-8.08	1.43	1.54
85	A5	463	A	O4'-C1'	8.07	1.53	1.41
36	B2	628	A	O4'-C1'	-8.07	1.29	1.41
36	B2	888	U	O4'-C1'	8.07	1.53	1.41
49	CQ	11	ARG	CA-CB	8.07	1.67	1.53
85	A5	1400	G	O4'-C1'	8.07	1.53	1.41
85	A5	4521	U	O4'-C1'	8.07	1.53	1.41
1	Az	154	VAL	CA-C	8.07	1.62	1.52
31	AH	118	ARG	CA-C	-8.07	1.41	1.52
36	B2	1242	U	C2'-C1'	-8.07	1.41	1.53
85	A5	1391	A	C2'-C1'	-8.06	1.41	1.53
69	Cg	78	TYR	CA-C	-8.06	1.42	1.52
85	A5	4430	G	C2'-C1'	-8.06	1.41	1.53
85	A5	1187	G	O4'-C1'	8.06	1.53	1.41
85	A5	710	G	C2'-C1'	-8.06	1.41	1.53
85	A5	3836	A	O4'-C1'	8.06	1.53	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1293	A	C2'-C1'	-8.05	1.41	1.53
36	B2	1224	G	C2'-C1'	-8.05	1.41	1.53
53	CT	52	MET	CA-C	-8.05	1.46	1.52
85	A5	4985	U	C2'-C1'	-8.05	1.41	1.53
86	A7	111	C	O4'-C1'	8.05	1.53	1.41
36	B2	1740	C	O4'-C1'	8.04	1.53	1.41
85	A5	4133	C	O4'-C1'	8.04	1.53	1.41
87	A8	33	G	C2'-C1'	-8.05	1.41	1.53
85	A5	4215	C	O4'-C1'	8.04	1.53	1.41
36	B2	53	C	O4'-C1'	8.04	1.53	1.41
85	A5	4241	C	C2'-C1'	-8.04	1.41	1.53
85	A5	2291	G	C2'-C1'	-8.04	1.41	1.53
85	A5	4491	G	C2'-C1'	-8.04	1.41	1.53
85	A5	506	C	O4'-C1'	8.03	1.53	1.41
36	B2	342	C	O4'-C1'	8.03	1.53	1.41
36	B2	1562	C	O4'-C1'	8.03	1.53	1.41
85	A5	48	G	C2'-C1'	-8.03	1.41	1.53
85	A5	1221	G	C2'-C1'	8.03	1.65	1.53
36	B2	948	C	O4'-C1'	8.02	1.53	1.41
36	B2	1570	G	O4'-C1'	-8.02	1.29	1.41
85	A5	203	U	C2'-C1'	-8.02	1.41	1.53
36	B2	1627	C	O4'-C1'	8.02	1.53	1.41
81	CE	128	HIS	N-CA	-8.02	1.35	1.46
86	A7	101	A	O4'-C1'	8.02	1.53	1.41
85	A5	1910	G	C2'-C1'	-8.02	1.41	1.53
36	B2	1464	C	O4'-C1'	8.02	1.53	1.41
68	Cf	31	GLU	CA-C	-8.02	1.42	1.52
85	A5	1071	C	O4'-C1'	8.02	1.53	1.42
36	B2	943	U	O4'-C1'	8.01	1.53	1.41
85	A5	2131	C	O4'-C1'	8.01	1.53	1.41
85	A5	2889	G	C2'-C1'	-8.01	1.41	1.53
85	A5	1074	G	C2'-C1'	-8.01	1.41	1.53
85	A5	4763	U	O4'-C1'	8.01	1.53	1.42
85	A5	80	C	O4'-C1'	8.01	1.53	1.41
85	A5	459	C	C2'-C1'	-8.01	1.41	1.53
36	B2	688	U	O4'-C1'	-8.01	1.29	1.42
36	B2	1345	G	O4'-C1'	8.01	1.53	1.41
85	A5	3882	C	C2'-C1'	-8.01	1.41	1.53
36	B2	1840	U	C2'-C1'	-8.00	1.41	1.53
36	B2	1856	C	O4'-C1'	8.00	1.53	1.41
36	B2	1341	C	O4'-C1'	8.00	1.53	1.42
56	CX	154	GLY	C-N	8.00	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2053	C	O4'-C1'	8.00	1.53	1.41
44	CM	69	HIS	N-CA	-8.00	1.35	1.46
85	A5	994	G	C2'-C1'	-8.00	1.41	1.53
36	B2	794	A	O4'-C1'	7.99	1.53	1.41
36	B2	931	C	O4'-C1'	7.99	1.53	1.41
85	A5	2549	G	C2'-C1'	-7.99	1.41	1.53
85	A5	4648	A	O4'-C1'	7.99	1.53	1.41
36	B2	755	C	C2'-C1'	-7.99	1.41	1.53
85	A5	4072	C	O4'-C1'	7.99	1.53	1.41
85	A5	4279	A	O4'-C1'	7.99	1.53	1.42
85	A5	1356	U	C2'-C1'	-7.99	1.41	1.53
85	A5	1580	C	O4'-C1'	7.98	1.53	1.41
85	A5	2742	G	C2'-C1'	-7.98	1.41	1.53
40	CK	27	ALA	CA-C	7.98	1.62	1.52
81	CE	144	ILE	CA-C	-7.98	1.43	1.53
36	B2	1819	A	C2'-C1'	-7.98	1.41	1.53
85	A5	215	C	O4'-C1'	7.98	1.53	1.41
85	A5	1791	U	O4'-C1'	7.98	1.53	1.41
85	A5	2589	C	C2'-C1'	-7.98	1.41	1.53
85	A5	4446	U	O4'-C1'	7.98	1.53	1.41
86	A7	113	G	C2'-C1'	-7.98	1.41	1.53
36	B2	1054	G	C2'-C1'	-7.98	1.41	1.53
85	A5	1830	G	C2'-C1'	-7.98	1.41	1.53
68	Cf	104	MET	CA-C	-7.97	1.42	1.53
85	A5	665	C	O4'-C1'	7.97	1.53	1.41
85	A5	320	C	O4'-C1'	7.97	1.53	1.41
86	A7	2	U	O4'-C1'	7.97	1.53	1.41
36	B2	624	C	O4'-C1'	7.97	1.53	1.41
85	A5	1894	C	O4'-C1'	7.97	1.53	1.41
85	A5	2041	A	O4'-C1'	-7.97	1.29	1.41
36	B2	1029	G	O4'-C1'	7.97	1.53	1.41
85	A5	3746	A	O4'-C1'	7.97	1.53	1.41
36	B2	424	C	C2'-C1'	-7.96	1.41	1.53
85	A5	4158	C	C2'-C1'	-7.96	1.41	1.53
85	A5	4244	A	O4'-C1'	7.96	1.53	1.41
36	B2	1734	G	O4'-C1'	7.95	1.53	1.41
39	Cq	45	MET	N-CA	-7.95	1.36	1.46
85	A5	4982	A	O4'-C1'	7.95	1.53	1.41
86	A7	95	C	O4'-C1'	7.95	1.53	1.41
36	B2	1813	A	C2'-C1'	-7.95	1.41	1.53
85	A5	685	C	O4'-C1'	7.95	1.53	1.42
36	B2	701	G	C2'-C1'	-7.95	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	338	A	O4'-C1'	7.95	1.53	1.41
85	A5	1639	U	O4'-C1'	7.95	1.53	1.41
85	A5	41	C	O4'-C1'	7.94	1.53	1.41
85	A5	4194	U	C2'-C1'	-7.94	1.41	1.53
36	B2	676	C	O4'-C1'	7.94	1.53	1.41
85	A5	1378	C	O4'-C1'	7.94	1.53	1.41
85	A5	2792	C	O4'-C1'	7.94	1.53	1.41
85	A5	3957	U	O4'-C1'	7.94	1.53	1.42
85	A5	4036	G	C2'-C1'	-7.94	1.41	1.53
57	CY	43	ASN	N-CA	-7.93	1.35	1.46
74	CC	274	LYS	CA-C	-7.93	1.42	1.52
85	A5	4132	C	O4'-C1'	7.93	1.53	1.41
36	B2	874	G	C2'-C1'	-7.93	1.41	1.53
36	B2	1552	G	C2'-C1'	7.93	1.65	1.53
85	A5	684	G	O4'-C1'	7.93	1.53	1.41
85	A5	2045	G	O4'-C1'	7.93	1.53	1.42
36	B2	223	C	O4'-C1'	7.92	1.53	1.41
87	A8	87	G	O4'-C1'	-7.92	1.30	1.42
36	B2	899	U	O4'-C1'	7.92	1.53	1.41
36	B2	491	C	O4'-C1'	7.92	1.53	1.41
85	A5	2804	C	O4'-C1'	7.92	1.53	1.41
85	A5	5008	C	C2'-C1'	-7.92	1.41	1.53
36	B2	557	U	C2'-C1'	-7.92	1.41	1.53
64	CF	145	PRO	N-CD	7.92	1.58	1.47
85	A5	2076	G	C2'-C1'	-7.92	1.41	1.53
85	A5	4218	U	C2'-C1'	-7.91	1.41	1.53
85	A5	4434	C	O4'-C1'	7.91	1.53	1.41
36	B2	1389	C	O4'-C1'	7.91	1.53	1.41
85	A5	4386	C	O4'-C1'	7.91	1.53	1.41
4	AK	35	LEU	N-CA	-7.91	1.35	1.46
16	AA	159	ILE	CA-CB	-7.91	1.43	1.54
36	B2	1721	U	C2'-C1'	7.90	1.65	1.53
85	A5	1907	A	C2'-C1'	-7.90	1.41	1.53
85	A5	50	C	O4'-C1'	7.90	1.53	1.41
36	B2	1053	C	O4'-C1'	7.90	1.53	1.41
85	A5	1938	C	O4'-C1'	7.90	1.53	1.42
49	CQ	12	LYS	CA-C	-7.90	1.43	1.52
85	A5	33	A	C2'-C1'	-7.90	1.41	1.53
85	A5	86	U	C2'-C1'	-7.89	1.41	1.53
85	A5	1438	U	C2'-C1'	-7.89	1.41	1.53
85	A5	2454	U	O4'-C1'	7.89	1.53	1.41
85	A5	4696	C	C2'-C1'	-7.89	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	493	A	C2'-C1'	-7.89	1.41	1.53
58	CW	2	LYS	CA-C	-7.89	1.42	1.53
85	A5	1542	U	O4'-C1'	7.89	1.53	1.41
85	A5	241	G	C2'-C1'	-7.89	1.41	1.53
85	A5	1213	G	C2'-C1'	-7.89	1.41	1.53
36	B2	295	C	C2'-C1'	-7.89	1.41	1.53
85	A5	125	C	O4'-C1'	7.88	1.53	1.41
85	A5	2457	G	O4'-C1'	7.88	1.53	1.41
85	A5	1301	C	C2'-C1'	7.88	1.65	1.53
85	A5	2290	C	O4'-C1'	7.88	1.53	1.41
85	A5	3651	A	O4'-C1'	7.88	1.53	1.41
85	A5	101	A	O4'-C1'	7.88	1.53	1.41
85	A5	4706	G	C2'-C1'	-7.88	1.41	1.53
85	A5	361	C	O4'-C1'	7.88	1.53	1.42
63	CB	78	ILE	CA-CB	-7.87	1.43	1.54
85	A5	735	G	C2'-C1'	-7.87	1.41	1.53
85	A5	1296	G	C2'-C1'	-7.87	1.41	1.53
28	AC	113	GLN	N-CA	7.87	1.55	1.46
85	A5	1249	C	C2'-C1'	-7.87	1.41	1.53
26	AJ	18	ARG	CA-C	-7.87	1.43	1.52
36	B2	693	A	O4'-C1'	7.87	1.53	1.41
36	B2	1532	C	C2'-C1'	-7.87	1.41	1.53
85	A5	1692	C	O4'-C1'	7.87	1.53	1.41
85	A5	2722	G	C2'-C1'	-7.87	1.41	1.53
87	A8	57	C	C2'-C1'	-7.87	1.41	1.53
85	A5	490	C	C2'-C1'	-7.87	1.41	1.53
85	A5	1351	G	O4'-C1'	7.87	1.53	1.41
85	A5	932	A	C2'-C1'	7.86	1.65	1.53
85	A5	1668	A	C2'-C1'	-7.86	1.41	1.53
85	A5	4258	C	O4'-C1'	7.86	1.53	1.41
85	A5	1675	C	O4'-C1'	7.86	1.53	1.41
36	B2	383	G	O4'-C1'	7.86	1.53	1.41
85	A5	470	A	O4'-C1'	7.86	1.53	1.41
85	A5	4628	U	O4'-C1'	7.86	1.53	1.41
36	B2	1752	C	C2'-C1'	-7.85	1.41	1.53
85	A5	1575	A	O4'-C1'	7.85	1.53	1.41
85	A5	4160	C	O4'-C1'	7.85	1.53	1.41
85	A5	2421	G	O4'-C1'	-7.85	1.30	1.42
21	Ab	36	LYS	CA-C	7.85	1.62	1.52
85	A5	4335	C	C2'-C1'	-7.85	1.41	1.53
61	Ch	76	LYS	CA-C	7.84	1.63	1.52
85	A5	1606	U	O4'-C1'	7.84	1.53	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2580	U	C2'-C1'	-7.84	1.41	1.53
85	A5	446	C	O4'-C1'	7.84	1.53	1.41
85	A5	502	C	O4'-C1'	7.84	1.53	1.41
85	A5	995	C	O4'-C1'	7.84	1.53	1.41
85	A5	1390	G	C2'-C1'	-7.84	1.41	1.53
85	A5	2729	C	O4'-C1'	7.84	1.53	1.41
36	B2	79	A	C2'-C1'	7.84	1.64	1.53
85	A5	1569	U	O4'-C1'	7.84	1.53	1.41
36	B2	1734	G	C2'-C1'	-7.84	1.41	1.53
53	CT	138	ALA	CA-C	-7.84	1.42	1.52
85	A5	164	G	C2'-C1'	-7.84	1.41	1.53
85	A5	3752	C	C2'-C1'	-7.84	1.41	1.53
36	B2	843	C	C2'-C1'	-7.83	1.41	1.53
52	CS	13	VAL	CA-C	-7.83	1.43	1.52
85	A5	1628	C	C2'-C1'	-7.83	1.41	1.53
85	A5	1988	G	C2'-C1'	-7.83	1.41	1.53
87	A8	1	C	O4'-C1'	7.83	1.53	1.41
36	B2	988	C	C2'-C1'	-7.83	1.41	1.53
36	B2	1797	U	O4'-C1'	7.83	1.53	1.41
36	B2	808	A	O4'-C1'	7.83	1.53	1.41
85	A5	2	G	C2'-C1'	-7.83	1.41	1.53
85	A5	1977	C	O4'-C1'	7.83	1.53	1.41
1	Az	196	GLU	CA-C	-7.82	1.42	1.52
85	A5	5031	G	O4'-C1'	7.82	1.53	1.41
6	AX	115	ILE	C-O	-7.82	1.15	1.24
87	A8	154	G	O4'-C1'	-7.82	1.29	1.41
36	B2	395	G	C2'-C1'	-7.82	1.41	1.53
85	A5	966	A	O4'-C1'	7.82	1.53	1.41
85	A5	119	G	O4'-C1'	7.82	1.53	1.42
85	A5	166	C	O4'-C1'	7.82	1.53	1.41
85	A5	1305	C	C2'-C1'	-7.82	1.41	1.53
53	CT	124	THR	N-CA	7.82	1.55	1.46
85	A5	328	A	C2'-C1'	-7.82	1.41	1.53
85	A5	5017	G	C2'-C1'	-7.82	1.41	1.53
37	BC	53	A	O4'-C1'	7.81	1.53	1.41
39	Cq	62	ARG	N-CA	-7.81	1.35	1.45
85	A5	1901	C	O4'-C1'	7.81	1.53	1.41
85	A5	2693	G	C2'-C1'	-7.81	1.41	1.53
85	A5	1201	U	C2'-C1'	-7.81	1.41	1.53
85	A5	4464	A	C2'-C1'	-7.81	1.41	1.53
36	B2	1689	C	C2'-C1'	-7.81	1.41	1.53
74	CC	4	ALA	C-N	7.81	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	3686	G	C2'-C1'	-7.81	1.41	1.53
1	Az	848	ILE	CA-C	-7.81	1.44	1.52
85	A5	1568	C	C2'-C1'	-7.80	1.41	1.53
81	CE	128	HIS	C-N	7.80	1.44	1.33
36	B2	1212	G	C2'-C1'	-7.80	1.41	1.53
85	A5	966	A	C2'-C1'	-7.80	1.41	1.53
36	B2	370	G	C2'-C1'	-7.80	1.41	1.53
36	B2	1261	C	C2'-C1'	-7.80	1.41	1.53
85	A5	1262	G	C2'-C1'	-7.80	1.41	1.53
85	A5	1357	C	O4'-C1'	7.80	1.53	1.41
85	A5	3678	G	C2'-C1'	-7.80	1.41	1.53
85	A5	2437	C	C2'-C1'	-7.80	1.41	1.53
85	A5	4284	C	O4'-C1'	7.80	1.53	1.41
85	A5	5004	C	O4'-C1'	7.80	1.53	1.41
86	A7	89	G	C2'-C1'	-7.80	1.41	1.53
85	A5	102	G	O4'-C1'	7.79	1.53	1.41
85	A5	1372	A	C2'-C1'	-7.79	1.41	1.53
85	A5	5014	A	C2'-C1'	-7.79	1.41	1.53
36	B2	1305	C	C2'-C1'	-7.79	1.41	1.53
85	A5	105	A	C2'-C1'	-7.79	1.41	1.53
85	A5	4502	C	C2'-C1'	-7.79	1.41	1.53
20	Aa	96	THR	C-N	7.79	1.42	1.33
36	B2	1786	U	O4'-C1'	7.79	1.53	1.41
85	A5	2011	C	O4'-C1'	7.78	1.53	1.41
85	A5	282	C	O4'-C1'	7.78	1.53	1.41
85	A5	1906	U	C2'-C1'	-7.78	1.41	1.53
85	A5	4907	G	C2'-C1'	-7.78	1.41	1.53
18	AY	33	ALA	CA-C	-7.78	1.43	1.52
20	Aa	98	PRO	CA-C	7.78	1.59	1.52
85	A5	4701	A	O4'-C1'	7.78	1.53	1.41
85	A5	690	C	O4'-C1'	7.78	1.53	1.41
37	BC	70	C	C2'-C1'	-7.77	1.41	1.53
36	B2	1263	U	C2'-C1'	-7.77	1.41	1.53
85	A5	1787	A	C2'-C1'	-7.77	1.41	1.53
26	AJ	186	GLY	C-N	7.77	1.40	1.33
85	A5	4666	G	O4'-C1'	7.77	1.53	1.41
85	A5	2462	C	O4'-C1'	7.77	1.53	1.41
85	A5	2772	C	C2'-C1'	-7.77	1.41	1.53
85	A5	4477	A	O4'-C1'	7.77	1.53	1.41
85	A5	4556	U	C2'-C1'	-7.77	1.41	1.53
36	B2	1485	U	C2'-C1'	-7.77	1.41	1.53
36	B2	337	C	C2'-C1'	-7.76	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
87	A8	35	C	C2'-C1'	-7.76	1.41	1.53
85	A5	2792	C	C2'-C1'	-7.76	1.41	1.53
36	B2	1211	G	C2'-C1'	-7.76	1.41	1.53
87	A8	89	U	C2'-C1'	-7.76	1.41	1.53
11	AL	102	PHE	C-O	7.76	1.33	1.23
85	A5	693	C	C2'-C1'	-7.76	1.41	1.53
36	B2	1819	A	O4'-C1'	7.75	1.53	1.41
36	B2	195	C	O4'-C1'	7.75	1.53	1.41
66	Cd	65	ASP	CA-C	-7.75	1.43	1.52
35	Ah	176	GLY	CA-C	7.75	1.62	1.51
85	A5	1909	G	C2'-C1'	-7.75	1.41	1.53
87	A8	124	U	O4'-C1'	7.75	1.53	1.42
1	Az	122	THR	CA-C	7.75	1.63	1.52
36	B2	50	A	C2'-C1'	-7.75	1.41	1.53
85	A5	903	C	C2'-C1'	-7.74	1.41	1.53
1	Az	821	PRO	CA-C	7.74	1.60	1.52
56	CX	69	ASN	CA-C	-7.74	1.42	1.52
36	B2	1629	C	C2'-C1'	-7.74	1.41	1.53
78	Co	13	LYS	CA-C	-7.74	1.44	1.53
85	A5	4580	U	O4'-C1'	7.74	1.53	1.41
85	A5	2669	C	C2'-C1'	7.73	1.64	1.53
87	A8	13	G	C2'-C1'	-7.73	1.41	1.53
36	B2	879	C	C2'-C1'	-7.73	1.41	1.53
36	B2	1058	A	O4'-C1'	7.73	1.53	1.41
85	A5	4922	C	O4'-C1'	7.72	1.53	1.41
15	AB	155	TYR	CA-C	-7.72	1.42	1.53
85	A5	2302	C	O4'-C1'	7.72	1.53	1.41
85	A5	4275	G	O4'-C1'	-7.72	1.30	1.41
85	A5	1434	G	C2'-C1'	-7.72	1.41	1.53
85	A5	3713	U	O4'-C1'	-7.72	1.30	1.42
36	B2	1146	C	O4'-C1'	7.72	1.53	1.41
63	CB	32	PHE	CA-C	-7.72	1.42	1.52
36	B2	520	A	O4'-C1'	7.72	1.53	1.41
36	B2	1438	A	O4'-C1'	7.72	1.53	1.41
36	B2	1538	C	O4'-C1'	7.72	1.53	1.41
85	A5	4445	U	C2'-C1'	-7.72	1.41	1.53
36	B2	54	A	C2'-C1'	-7.71	1.41	1.53
85	A5	3929	G	C2'-C1'	-7.71	1.41	1.53
86	A7	4	U	C2'-C1'	-7.71	1.41	1.53
36	B2	517	C	C2'-C1'	-7.71	1.41	1.53
85	A5	3939	G	C2'-C1'	-7.71	1.41	1.53
36	B2	1379	A	C2'-C1'	-7.71	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	124	C	O4'-C1'	7.71	1.53	1.41
85	A5	4537	C	O4'-C1'	7.71	1.53	1.41
36	B2	69	C	O4'-C1'	7.71	1.53	1.41
36	B2	887	U	O4'-C1'	-7.71	1.30	1.42
36	B2	1482	C	O4'-C1'	7.71	1.53	1.41
41	CO	4	VAL	CA-CB	-7.71	1.44	1.53
85	A5	4321	U	O4'-C1'	7.71	1.53	1.41
85	A5	4088	C	C2'-C1'	-7.71	1.41	1.53
85	A5	4367	G	O4'-C1'	7.71	1.53	1.41
85	A5	67	C	O4'-C1'	7.71	1.53	1.41
85	A5	1774	C	O4'-C1'	7.71	1.53	1.41
85	A5	3592	G	O4'-C1'	7.71	1.53	1.41
85	A5	1356	U	O4'-C1'	7.70	1.53	1.41
36	B2	1513	C	O4'-C1'	7.70	1.53	1.41
85	A5	2337	C	O4'-C1'	7.70	1.53	1.41
85	A5	3605	C	C2'-C1'	-7.70	1.41	1.53
85	A5	2261	G	C2'-C1'	-7.70	1.41	1.53
29	AG	131	ARG	CA-C	7.70	1.62	1.52
36	B2	16	G	C2'-C1'	-7.70	1.41	1.53
36	B2	1404	U	C2'-C1'	-7.69	1.41	1.53
85	A5	1205	G	O4'-C1'	7.69	1.53	1.41
49	CQ	19	LYS	CA-C	-7.69	1.42	1.52
85	A5	4537	C	C2'-C1'	-7.69	1.41	1.53
36	B2	1374	C	O4'-C1'	7.69	1.53	1.41
85	A5	4184	G	O4'-C1'	7.69	1.53	1.41
85	A5	2481	G	O4'-C1'	7.68	1.53	1.41
85	A5	4451	G	O4'-C1'	7.68	1.53	1.41
85	A5	1047	C	O4'-C1'	7.68	1.53	1.41
85	A5	3601	C	O4'-C1'	7.68	1.53	1.41
85	A5	3782	C	C2'-C1'	-7.68	1.41	1.53
36	B2	178	C	O4'-C1'	7.68	1.53	1.41
85	A5	4429	C	O4'-C1'	7.68	1.53	1.41
36	B2	1022	U	O4'-C1'	7.68	1.53	1.41
85	A5	366	A	O4'-C1'	7.68	1.53	1.41
36	B2	178	C	C2'-C1'	-7.67	1.41	1.53
85	A5	3650	C	C2'-C1'	-7.67	1.41	1.53
85	A5	3977	C	O4'-C1'	7.67	1.53	1.41
59	CZ	79	HIS	N-CA	-7.67	1.36	1.46
85	A5	1332	C	O4'-C1'	7.67	1.53	1.41
36	B2	857	U	O4'-C1'	7.67	1.53	1.41
85	A5	1180	C	O4'-C1'	7.67	1.53	1.41
36	B2	1747	C	O3'-P	-7.67	1.49	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1237	C	O4'-C1'	7.67	1.53	1.41
36	B2	1490	G	C2'-C1'	-7.67	1.41	1.53
85	A5	1778	C	O4'-C1'	7.67	1.53	1.41
85	A5	1783	C	C2'-C1'	-7.67	1.41	1.53
85	A5	2610	G	C2'-C1'	-7.67	1.41	1.53
85	A5	5069	U	O4'-C1'	7.66	1.53	1.41
47	CI	206	LEU	N-CA	7.66	1.56	1.46
58	CW	71	ARG	CA-CB	-7.66	1.40	1.53
4	AK	31	LYS	N-CA	-7.66	1.36	1.46
85	A5	40	G	C2'-C1'	-7.66	1.41	1.53
85	A5	1086	C	C2'-C1'	-7.66	1.41	1.53
85	A5	5056	A	C2'-C1'	-7.66	1.41	1.53
43	CV	101	ASN	CA-C	-7.66	1.43	1.52
85	A5	2340	C	C2'-C1'	-7.66	1.41	1.53
85	A5	4661	G	C2'-C1'	-7.66	1.41	1.53
1	Az	620	GLY	C-N	7.66	1.44	1.33
11	AL	152	LYS	CA-C	-7.66	1.42	1.52
12	AR	121	GLN	CA-C	7.66	1.62	1.52
36	B2	1758	G	C2'-C1'	-7.65	1.41	1.53
49	CQ	91	ARG	N-CA	-7.65	1.36	1.46
85	A5	1796	U	C2'-C1'	-7.65	1.41	1.53
36	B2	106	C	O4'-C1'	7.65	1.53	1.41
36	B2	97	U	O4'-C1'	7.65	1.53	1.41
86	A7	17	C	O4'-C1'	7.65	1.53	1.41
85	A5	4195	G	C2'-C1'	-7.64	1.41	1.53
36	B2	1108	G	O4'-C1'	-7.64	1.30	1.41
85	A5	3923	A	O4'-C1'	7.64	1.53	1.41
35	Ah	151	PHE	CA-C	7.64	1.63	1.52
85	A5	1751	A	C2'-C1'	-7.64	1.41	1.53
85	A5	2031	C	C2'-C1'	-7.64	1.41	1.53
36	B2	214	U	O4'-C1'	7.64	1.53	1.41
36	B2	615	C	C2'-C1'	-7.64	1.41	1.53
44	CM	33	GLN	N-CA	-7.63	1.37	1.46
36	B2	663	C	O4'-C1'	7.63	1.53	1.41
85	A5	1338	G	O4'-C1'	-7.63	1.30	1.42
39	Cq	263	GLU	CA-CB	7.63	1.66	1.53
47	CI	176	PHE	CA-C	-7.63	1.42	1.52
85	A5	2607	C	O4'-C1'	7.63	1.53	1.41
63	CB	111	SER	N-CA	-7.63	1.37	1.46
86	A7	23	A	O4'-C1'	7.63	1.53	1.41
52	CS	152	PHE	N-CA	-7.63	1.35	1.46
87	A8	98	C	O4'-C1'	7.63	1.53	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	697	G	O4'-C1'	7.63	1.53	1.41
85	A5	3860	A	C2'-C1'	-7.62	1.42	1.53
85	A5	5013	C	C2'-C1'	-7.62	1.41	1.53
85	A5	110	C	O4'-C1'	7.62	1.53	1.41
85	A5	482	G	O4'-C1'	7.62	1.53	1.41
87	A8	138	C	C2'-C1'	-7.62	1.42	1.53
85	A5	1406	G	C2'-C1'	7.62	1.64	1.53
85	A5	1880	G	O4'-C1'	7.62	1.53	1.41
85	A5	4565	C	P-O5'	-7.62	1.48	1.59
87	A8	126	C	O4'-C1'	7.62	1.53	1.42
42	CL	25	TRP	CA-C	-7.62	1.41	1.52
58	CW	71	ARG	N-CA	-7.62	1.36	1.46
85	A5	3894	A	O4'-C1'	7.62	1.53	1.41
85	A5	4211	C	C2'-C1'	-7.62	1.42	1.53
74	CC	335	MET	CA-C	-7.62	1.43	1.52
85	A5	1464	C	C2'-C1'	-7.62	1.42	1.53
4	AK	89	ILE	CA-C	-7.62	1.43	1.52
85	A5	250	C	O4'-C1'	7.62	1.53	1.41
85	A5	2905	C	O4'-C1'	7.62	1.53	1.41
37	BC	30	G	C2'-C1'	-7.61	1.42	1.53
85	A5	3667	C	O4'-C1'	7.61	1.53	1.41
85	A5	2487	G	C2'-C1'	-7.61	1.42	1.53
36	B2	1415	C	C2'-C1'	-7.61	1.42	1.53
36	B2	1687	C	C2'-C1'	-7.61	1.42	1.53
85	A5	2498	C	O4'-C1'	7.61	1.53	1.41
36	B2	920	A	C2'-C1'	-7.61	1.41	1.53
36	B2	26	U	O4'-C1'	7.61	1.53	1.41
74	CC	35	ASP	CA-C	7.60	1.62	1.52
85	A5	2876	G	O4'-C1'	-7.60	1.30	1.41
85	A5	4223	C	O4'-C1'	7.60	1.53	1.41
19	AZ	104	ARG	CD-NE	-7.60	1.35	1.46
36	B2	390	C	O4'-C1'	7.60	1.53	1.41
36	B2	1583	C	C2'-C1'	-7.60	1.42	1.53
85	A5	2460	A	C2'-C1'	-7.60	1.42	1.53
42	CL	161	TYR	CA-C	-7.60	1.42	1.52
39	Cq	234	VAL	CA-CB	-7.60	1.44	1.54
36	B2	1189	A	O4'-C1'	7.59	1.53	1.41
85	A5	4640	C	O4'-C1'	7.59	1.53	1.41
85	A5	5069	U	C2'-C1'	-7.59	1.42	1.53
85	A5	706	C	O4'-C1'	7.59	1.53	1.41
36	B2	41	G	O4'-C1'	7.59	1.53	1.42
36	B2	1508	A	C2'-C1'	7.58	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	940	U	O4'-C1'	7.58	1.53	1.41
85	A5	1666	C	C2'-C1'	-7.58	1.42	1.53
85	A5	734	G	C2'-C1'	7.58	1.64	1.53
85	A5	3632	C	C2'-C1'	-7.58	1.42	1.53
85	A5	1507	C	O4'-C1'	7.58	1.53	1.41
85	A5	4142	C	O4'-C1'	7.58	1.53	1.41
85	A5	4273	A	C2'-C1'	-7.58	1.42	1.53
85	A5	1665	C	O4'-C1'	7.57	1.53	1.41
4	AK	40	VAL	CA-CB	-7.57	1.44	1.54
47	CI	188	LYS	C-N	-7.57	1.23	1.33
82	CG	39	PHE	CA-C	-7.57	1.44	1.53
85	A5	3969	G	O4'-C1'	7.57	1.53	1.41
85	A5	4687	A	O4'-C1'	7.57	1.53	1.41
36	B2	17	C	O4'-C1'	7.57	1.53	1.41
86	A7	31	G	O4'-C1'	7.57	1.53	1.41
17	AV	67	ASP	N-CA	-7.57	1.37	1.46
37	BC	57	A	O4'-C1'	7.57	1.53	1.42
38	Cz	100	VAL	C-O	-7.57	1.15	1.24
85	A5	2501	C	O4'-C1'	7.56	1.52	1.41
36	B2	50	A	O4'-C1'	7.56	1.52	1.41
85	A5	4235	G	C2'-C1'	-7.56	1.42	1.53
87	A8	59	A	O4'-C1'	7.56	1.53	1.42
36	B2	362	C	C2'-C1'	-7.56	1.42	1.53
85	A5	4363	A	O4'-C1'	7.56	1.52	1.41
36	B2	325	C	C2'-C1'	7.56	1.64	1.53
85	A5	2760	G	C2'-C1'	7.56	1.64	1.53
85	A5	3910	C	O4'-C1'	7.56	1.52	1.41
85	A5	2419	C	C2'-C1'	-7.56	1.42	1.53
39	Cq	24	TYR	N-CA	7.55	1.56	1.46
85	A5	3604	A	O4'-C1'	-7.55	1.30	1.41
85	A5	233	U	O4'-C1'	-7.55	1.30	1.42
85	A5	30	C	O4'-C1'	7.55	1.52	1.41
85	A5	4150	G	C2'-C1'	-7.55	1.42	1.53
81	CE	32	LEU	CA-CB	7.54	1.67	1.54
36	B2	585	C	O4'-C1'	7.54	1.52	1.41
36	B2	1225	U	O4'-C1'	7.54	1.52	1.41
85	A5	143	C	O4'-C1'	7.54	1.53	1.42
85	A5	4667	C	C2'-C1'	-7.54	1.42	1.53
36	B2	1867	U	O4'-C1'	-7.54	1.30	1.42
85	A5	381	U	C2'-C1'	-7.54	1.42	1.53
85	A5	4661	G	O4'-C1'	7.54	1.52	1.41
85	A5	1255	A	O4'-C1'	7.54	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	AB	41	ILE	N-CA	-7.54	1.35	1.46
36	B2	447	A	C2'-C1'	7.54	1.64	1.53
85	A5	293	G	C2'-C1'	-7.54	1.42	1.53
85	A5	905	C	O4'-C1'	7.54	1.52	1.41
85	A5	2329	U	O4'-C1'	7.54	1.52	1.41
86	A7	105	C	O4'-C1'	7.54	1.52	1.41
36	B2	1185	C	C2'-C1'	-7.53	1.42	1.53
36	B2	1565	C	O4'-C1'	7.53	1.52	1.41
85	A5	4886	C	O4'-C1'	7.53	1.52	1.41
87	A8	23	C	O4'-C1'	7.53	1.53	1.42
86	A7	37	G	C2'-C1'	-7.53	1.42	1.53
85	A5	5019	A	O4'-C1'	7.53	1.52	1.41
85	A5	3700	C	O4'-C1'	7.52	1.52	1.41
46	CN	127	TYR	CA-C	-7.52	1.43	1.52
85	A5	2700	G	C2'-C1'	-7.52	1.42	1.53
85	A5	3954	A	O4'-C1'	7.52	1.52	1.41
36	B2	420	G	C2'-C1'	-7.51	1.42	1.53
36	B2	550	C	O4'-C1'	7.51	1.52	1.41
36	B2	1102	G	C2'-C1'	-7.51	1.42	1.53
54	CP	114	ILE	CA-C	-7.51	1.44	1.52
85	A5	3696	C	O4'-C1'	7.51	1.52	1.41
36	B2	553	U	O4'-C1'	7.51	1.52	1.41
36	B2	848	U	O4'-C1'	7.51	1.52	1.41
85	A5	1105	C	O4'-C1'	7.51	1.52	1.41
85	A5	3852	A	O4'-C1'	7.51	1.52	1.41
36	B2	1411	G	O4'-C1'	7.51	1.52	1.41
85	A5	1474	C	C2'-C1'	-7.51	1.42	1.53
36	B2	84	A	C2'-C1'	-7.50	1.42	1.53
85	A5	1759	G	C2'-C1'	-7.50	1.42	1.53
36	B2	1576	G	O4'-C1'	7.50	1.52	1.41
81	CE	93	THR	CA-C	-7.50	1.37	1.52
85	A5	2506	G	C2'-C1'	-7.50	1.41	1.53
36	B2	680	G	O4'-C1'	7.50	1.52	1.41
85	A5	141	C	C2'-C1'	-7.50	1.42	1.53
36	B2	1813	A	O4'-C1'	7.49	1.52	1.41
85	A5	2497	C	C2'-C1'	-7.49	1.42	1.53
85	A5	3926	C	C2'-C1'	-7.49	1.42	1.53
26	AJ	165	TYR	N-CA	-7.49	1.36	1.46
36	B2	1234	C	C2'-C1'	-7.49	1.42	1.53
85	A5	248	C	O4'-C1'	7.49	1.52	1.41
85	A5	705	G	C2'-C1'	-7.49	1.42	1.53
63	CB	7	SER	C-N	7.49	1.49	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1835	A	O4'-C1'	7.49	1.53	1.42
36	B2	1469	A	O4'-C1'	7.49	1.52	1.41
85	A5	992	C	C2'-C1'	-7.49	1.42	1.53
85	A5	4871	C	C2'-C1'	7.49	1.64	1.53
36	B2	453	C	O4'-C1'	7.48	1.52	1.41
85	A5	3588	C	O4'-C1'	7.48	1.52	1.41
85	A5	3837	C	C2'-C1'	-7.48	1.42	1.53
85	A5	4370	G	C2'-C1'	-7.48	1.42	1.53
85	A5	1307	A	C2'-C1'	-7.48	1.42	1.53
87	A8	144	U	O4'-C1'	7.48	1.52	1.41
85	A5	222	C	O4'-C1'	7.48	1.52	1.41
85	A5	303	C	C2'-C1'	-7.48	1.42	1.53
85	A5	2031	C	O4'-C1'	7.48	1.52	1.41
36	B2	598	G	C2'-C1'	-7.47	1.42	1.53
85	A5	4930	C	O4'-C1'	7.47	1.52	1.41
36	B2	1275	G	C2'-C1'	-7.47	1.42	1.53
36	B2	1622	U	C2'-C1'	-7.47	1.41	1.53
85	A5	1893	C	C2'-C1'	-7.47	1.42	1.53
85	A5	3819	G	C2'-C1'	-7.47	1.42	1.53
87	A8	66	A	O4'-C1'	7.47	1.52	1.41
85	A5	4613	C	C2'-C1'	-7.47	1.42	1.53
36	B2	190	G	O4'-C1'	7.47	1.52	1.41
36	B2	1227	G	O4'-C1'	7.47	1.52	1.41
85	A5	1082	C	O4'-C1'	7.47	1.52	1.41
85	A5	1311	G	C2'-C1'	-7.47	1.42	1.53
85	A5	3911	C	C2'-C1'	-7.47	1.42	1.53
36	B2	1414	A	C2'-C1'	-7.46	1.42	1.53
85	A5	170	C	O4'-C1'	7.46	1.52	1.41
85	A5	1866	U	C2'-C1'	-7.46	1.42	1.53
85	A5	4327	C	C2'-C1'	-7.46	1.42	1.53
85	A5	1651	G	C2'-C1'	-7.46	1.42	1.53
36	B2	1162	C	O4'-C1'	7.46	1.52	1.41
85	A5	4154	G	C2'-C1'	-7.46	1.42	1.53
85	A5	4192	A	O4'-C1'	7.46	1.52	1.41
36	B2	827	A	C2'-C1'	-7.45	1.42	1.53
85	A5	1360	G	O4'-C1'	7.45	1.52	1.41
85	A5	2561	C	O4'-C1'	7.45	1.52	1.41
36	B2	659	G	O4'-C1'	-7.45	1.30	1.41
36	B2	828	G	O4'-C1'	-7.45	1.30	1.41
85	A5	2757	A	O4'-C1'	7.45	1.52	1.41
85	A5	3870	C	O4'-C1'	7.45	1.52	1.41
85	A5	1049	C	O4'-C1'	7.45	1.52	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1895	G	C2'-C1'	-7.45	1.42	1.53
85	A5	348	G	C2'-C1'	-7.45	1.41	1.53
85	A5	4746	C	O4'-C1'	7.44	1.52	1.41
48	CD	218	ALA	CA-C	-7.44	1.43	1.52
3	AU	68	THR	CA-C	7.44	1.62	1.53
85	A5	1499	C	C2'-C1'	-7.44	1.42	1.53
85	A5	2439	G	O4'-C1'	7.44	1.52	1.41
85	A5	2728	U	C2'-C1'	-7.44	1.42	1.53
85	A5	2051	C	O4'-C1'	7.44	1.52	1.41
36	B2	1831	A	O4'-C1'	7.43	1.52	1.41
85	A5	182	G	O4'-C1'	7.43	1.52	1.41
85	A5	2748	C	O4'-C1'	7.43	1.52	1.41
85	A5	4125	C	O4'-C1'	7.43	1.52	1.41
1	Az	810	PRO	N-CD	7.43	1.58	1.47
26	AJ	101	LYS	CA-C	7.43	1.62	1.52
87	A8	89	U	O4'-C1'	7.43	1.52	1.41
36	B2	52	G	C2'-C1'	-7.43	1.42	1.53
36	B2	419	G	O4'-C1'	7.43	1.52	1.41
36	B2	693	A	C2'-C1'	-7.43	1.42	1.53
85	A5	4053	A	O4'-C1'	7.43	1.52	1.41
85	A5	1982	G	O4'-C1'	7.43	1.52	1.41
85	A5	2642	A	O4'-C1'	7.43	1.52	1.41
85	A5	2867	C	O4'-C1'	7.43	1.52	1.41
85	A5	2716	C	C2'-C1'	-7.42	1.42	1.53
85	A5	2768	C	C2'-C1'	-7.42	1.42	1.53
44	CM	2	VAL	N-CA	-7.42	1.37	1.46
85	A5	1631	A	C2'-C1'	7.42	1.64	1.53
85	A5	2377	C	O4'-C1'	7.42	1.52	1.41
36	B2	1328	G	C2'-C1'	-7.41	1.42	1.53
85	A5	4153	C	C2'-C1'	-7.41	1.42	1.53
85	A5	4724	A	O4'-C1'	7.41	1.52	1.41
85	A5	4742	G	C2'-C1'	-7.41	1.42	1.53
85	A5	1619	G	O4'-C1'	7.41	1.52	1.41
36	B2	1781	A	O4'-C1'	7.41	1.52	1.41
36	B2	663	C	C2'-C1'	-7.41	1.42	1.53
85	A5	3593	C	O4'-C1'	7.41	1.53	1.42
49	CQ	11	ARG	C-N	-7.40	1.24	1.33
36	B2	75	G	C2'-C1'	-7.40	1.42	1.53
85	A5	1323	A	C2'-C1'	-7.40	1.42	1.53
86	A7	118	C	O4'-C1'	7.40	1.52	1.41
36	B2	120	U	C2'-C1'	-7.40	1.42	1.53
85	A5	2569	G	O4'-C1'	7.40	1.52	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
87	A8	26	C	C2'-C1'	-7.40	1.42	1.53
36	B2	1745	A	C2'-C1'	7.40	1.64	1.53
85	A5	259	C	C2'-C1'	-7.40	1.42	1.53
8	AS	87	GLN	C-N	-7.40	1.24	1.33
36	B2	1349	G	O4'-C1'	7.40	1.52	1.41
85	A5	2029	A	O4'-C1'	7.40	1.52	1.41
85	A5	3709	U	C2'-C1'	-7.40	1.42	1.53
85	A5	4207	C	C2'-C1'	-7.40	1.42	1.53
29	AG	36	VAL	N-CA	-7.40	1.37	1.46
85	A5	2820	C	C2'-C1'	-7.39	1.42	1.53
7	AM	116	LYS	CA-C	7.39	1.62	1.52
78	Co	73	VAL	N-CA	-7.39	1.37	1.46
85	A5	2019	C	O4'-C1'	7.39	1.52	1.41
85	A5	4389	C	O4'-C1'	7.39	1.52	1.41
36	B2	1785	C	C2'-C1'	7.39	1.64	1.53
85	A5	1287	G	C2'-C1'	-7.39	1.42	1.53
87	A8	69	U	C2'-C1'	-7.39	1.42	1.53
36	B2	30	C	O4'-C1'	7.39	1.52	1.41
64	CF	110	GLN	N-CA	-7.39	1.37	1.46
85	A5	2817	C	C2'-C1'	-7.39	1.42	1.53
85	A5	255	C	C2'-C1'	-7.39	1.42	1.53
85	A5	4138	C	O4'-C1'	7.39	1.52	1.41
85	A5	4312	U	C2'-C1'	-7.39	1.42	1.53
85	A5	4866	C	O4'-C1'	7.39	1.52	1.41
36	B2	1143	A	C2'-C1'	-7.38	1.42	1.53
36	B2	1308	U	O4'-C1'	-7.38	1.30	1.42
49	CQ	139	LEU	CA-C	7.38	1.61	1.52
85	A5	2026	A	C2'-C1'	-7.38	1.42	1.53
85	A5	2307	A	O4'-C1'	7.38	1.52	1.41
85	A5	983	C	C2'-C1'	-7.38	1.42	1.53
30	AF	108	PRO	N-CD	7.38	1.58	1.47
74	CC	313	VAL	N-CA	-7.38	1.37	1.46
36	B2	1075	C	C2'-C1'	-7.38	1.42	1.53
85	A5	2654	C	C2'-C1'	-7.38	1.42	1.53
36	B2	238	C	O4'-C1'	7.38	1.52	1.41
85	A5	2502	G	C2'-C1'	-7.38	1.42	1.53
85	A5	2247	C	C2'-C1'	7.37	1.64	1.53
85	A5	2532	C	O4'-C1'	7.37	1.52	1.41
86	A7	89	G	O4'-C1'	7.37	1.52	1.41
36	B2	1616	U	O4'-C1'	7.37	1.52	1.41
39	Cq	44	ARG	C-N	7.37	1.43	1.33
52	CS	15	ARG	CA-C	-7.37	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4485	C	O4'-C1'	7.37	1.52	1.41
85	A5	4760	G	C2'-C1'	-7.37	1.42	1.53
85	A5	1678	C	O4'-C1'	7.37	1.52	1.42
4	AK	40	VAL	CA-C	-7.36	1.45	1.52
85	A5	3658	C	O4'-C1'	7.36	1.52	1.41
85	A5	135	G	C2'-C1'	-7.36	1.42	1.53
36	B2	1444	U	O4'-C1'	7.36	1.52	1.41
85	A5	1354	A	C2'-C1'	-7.36	1.42	1.53
85	A5	729	G	O4'-C1'	7.36	1.52	1.42
85	A5	1914	C	C2'-C1'	-7.36	1.42	1.53
36	B2	438	G	C2'-C1'	7.36	1.64	1.53
85	A5	2321	G	C2'-C1'	-7.36	1.42	1.53
85	A5	4688	C	O4'-C1'	7.36	1.52	1.41
85	A5	4859	C	O4'-C1'	7.36	1.52	1.41
85	A5	5070	C	C2'-C1'	-7.36	1.42	1.53
13	AP	18	ARG	CA-CB	7.36	1.62	1.52
85	A5	1479	G	C2'-C1'	-7.36	1.42	1.53
85	A5	4360	U	O4'-C1'	7.36	1.52	1.41
36	B2	82	G	C2'-C1'	7.35	1.64	1.53
1	Az	533	MET	CA-C	-7.35	1.43	1.52
36	B2	321	C	C2'-C1'	-7.35	1.42	1.53
36	B2	757	C	O4'-C1'	7.35	1.52	1.41
36	B2	1213	C	C2'-C1'	-7.35	1.42	1.53
40	CK	130	LYS	C-N	-7.35	1.23	1.33
38	Cz	208	SER	C-N	7.34	1.44	1.33
85	A5	1431	C	C2'-C1'	-7.34	1.42	1.53
85	A5	2706	G	C2'-C1'	-7.34	1.42	1.53
85	A5	4110	C	C2'-C1'	-7.34	1.42	1.53
85	A5	4525	C	O4'-C1'	7.34	1.52	1.41
74	CC	305	PRO	CA-C	-7.34	1.42	1.52
87	A8	12	G	C2'-C1'	-7.34	1.42	1.53
36	B2	194	C	C2'-C1'	-7.34	1.42	1.53
36	B2	239	C	O4'-C1'	7.34	1.52	1.41
85	A5	7	C	C2'-C1'	-7.34	1.42	1.53
86	A7	103	A	O4'-C1'	7.34	1.52	1.41
40	CK	111	ASN	CA-CB	7.34	1.65	1.53
49	CQ	152	PHE	CA-C	7.34	1.62	1.53
85	A5	3666	C	O4'-C1'	7.33	1.52	1.41
60	Cr	36	ASN	C-O	-7.33	1.15	1.24
85	A5	1338	G	C2'-C1'	-7.33	1.42	1.53
8	AS	88	LYS	N-CA	-7.33	1.36	1.46
85	A5	3887	C	O4'-C1'	7.33	1.52	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	CX	37	LYS	N-CA	-7.33	1.36	1.46
85	A5	4893	A	O4'-C1'	7.33	1.52	1.41
26	AJ	144	ILE	CA-C	-7.32	1.45	1.52
85	A5	1358	G	O4'-C1'	7.32	1.52	1.41
36	B2	1313	A	C2'-C1'	-7.32	1.42	1.53
37	BC	33	C	O4'-C1'	7.32	1.52	1.41
36	B2	1480	A	O4'-C1'	7.32	1.52	1.41
85	A5	664	G	C2'-C1'	-7.32	1.42	1.53
36	B2	463	C	O4'-C1'	7.32	1.52	1.41
85	A5	925	C	C2'-C1'	-7.32	1.42	1.53
36	B2	1590	C	C2'-C1'	-7.32	1.42	1.53
85	A5	106	A	O4'-C1'	7.32	1.52	1.41
85	A5	978	G	O4'-C1'	7.32	1.52	1.41
85	A5	3585	G	C2'-C1'	-7.32	1.42	1.53
85	A5	3584	C	O4'-C1'	7.31	1.52	1.41
85	A5	1869	G	O4'-C1'	-7.31	1.30	1.42
85	A5	4619	U	O4'-C1'	7.31	1.52	1.41
85	A5	4771	C	C2'-C1'	-7.31	1.42	1.53
67	Ce	13	VAL	CA-CB	-7.31	1.44	1.54
85	A5	4955	A	C2'-C1'	7.31	1.64	1.53
85	A5	159	C	O4'-C1'	7.31	1.52	1.42
85	A5	3710	G	O4'-C1'	7.31	1.52	1.41
85	A5	4709	U	O4'-C1'	7.31	1.52	1.41
36	B2	1629	C	O4'-C1'	7.31	1.52	1.41
85	A5	210	C	C2'-C1'	-7.31	1.42	1.53
85	A5	2620	G	C2'-C1'	-7.31	1.42	1.53
85	A5	3781	C	O4'-C1'	7.30	1.52	1.41
36	B2	567	C	O4'-C1'	7.30	1.52	1.41
36	B2	906	U	O4'-C1'	7.30	1.52	1.41
36	B2	859	G	C2'-C1'	-7.30	1.42	1.53
37	BC	40	C	O4'-C1'	7.30	1.52	1.41
52	CS	153	PRO	CA-C	-7.30	1.42	1.52
85	A5	1166	G	C2'-C1'	-7.30	1.42	1.53
85	A5	1540	C	O4'-C1'	7.30	1.52	1.41
85	A5	3783	A	O4'-C1'	7.30	1.52	1.42
50	CR	89	MET	C-N	-7.29	1.24	1.33
36	B2	573	U	C2'-C1'	-7.29	1.42	1.53
85	A5	911	U	O4'-C1'	7.29	1.52	1.41
85	A5	2887	U	C2'-C1'	7.29	1.64	1.53
85	A5	4774	C	O4'-C1'	7.29	1.52	1.41
85	A5	4505	C	C2'-C1'	-7.28	1.42	1.53
10	AN	137	PRO	N-CD	7.28	1.57	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1619	G	C2'-C1'	-7.28	1.42	1.53
26	AJ	164	PRO	CA-CB	-7.28	1.43	1.53
36	B2	1033	G	C2'-C1'	-7.28	1.42	1.53
36	B2	538	U	O4'-C1'	7.27	1.52	1.41
36	B2	664	A	C2'-C1'	-7.27	1.42	1.53
44	CM	4	ARG	CA-C	-7.27	1.43	1.52
39	Cq	24	TYR	CA-C	7.27	1.61	1.52
52	CS	17	LEU	CA-C	-7.27	1.43	1.52
85	A5	3858	C	O4'-C1'	7.27	1.52	1.41
85	A5	984	C	O4'-C1'	7.27	1.52	1.41
86	A7	10	C	O4'-C1'	7.27	1.52	1.42
36	B2	1582	C	O4'-C1'	7.27	1.52	1.41
82	CG	138	ALA	CA-C	7.27	1.62	1.52
85	A5	2861	C	C2'-C1'	-7.26	1.42	1.53
74	CC	305	PRO	C-O	-7.26	1.14	1.24
85	A5	122	U	O4'-C1'	7.26	1.52	1.41
85	A5	1279	A	C2'-C1'	-7.26	1.42	1.53
85	A5	4048	A	C2'-C1'	7.26	1.64	1.53
36	B2	1216	C	O4'-C1'	7.26	1.52	1.41
85	A5	4468	U	O4'-C1'	7.26	1.52	1.41
36	B2	327	G	O4'-C1'	-7.26	1.31	1.42
36	B2	570	C	C2'-C1'	-7.26	1.42	1.53
39	Cq	56	GLY	CA-C	7.26	1.62	1.51
85	A5	1731	C	C2'-C1'	-7.25	1.42	1.53
85	A5	4326	G	O4'-C1'	7.25	1.52	1.41
36	B2	606	G	O4'-C1'	-7.25	1.31	1.42
36	B2	927	C	O4'-C1'	7.25	1.52	1.41
36	B2	1656	G	C2'-C1'	-7.25	1.42	1.53
85	A5	351	C	C2'-C1'	-7.25	1.42	1.53
85	A5	1405	C	O4'-C1'	7.25	1.52	1.41
85	A5	1417	C	C2'-C1'	-7.25	1.42	1.53
85	A5	1465	G	C2'-C1'	-7.25	1.42	1.53
85	A5	2360	A	O4'-C1'	7.25	1.52	1.42
29	AG	121	ILE	CA-C	-7.25	1.45	1.52
36	B2	1268	C	O4'-C1'	7.25	1.52	1.41
85	A5	716	C	O4'-C1'	7.25	1.52	1.41
85	A5	1315	C	C2'-C1'	-7.25	1.42	1.53
87	A8	28	C	C2'-C1'	-7.25	1.42	1.53
36	B2	1215	C	C2'-C1'	7.25	1.64	1.53
36	B2	1256	G	O4'-C1'	7.24	1.52	1.41
36	B2	1333	U	C2'-C1'	7.24	1.64	1.53
85	A5	134	G	C2'-C1'	-7.24	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	736	C	C2'-C1'	-7.24	1.42	1.53
85	A5	4269	G	C2'-C1'	-7.24	1.42	1.53
85	A5	4717	A	O4'-C1'	-7.24	1.30	1.41
48	CD	43	LYS	CA-CB	-7.24	1.42	1.53
85	A5	3637	U	O4'-C1'	7.24	1.52	1.41
36	B2	879	C	O4'-C1'	7.24	1.52	1.41
85	A5	4681	A	O4'-C1'	7.24	1.52	1.41
36	B2	1460	C	O4'-C1'	7.23	1.52	1.41
85	A5	60	G	O4'-C1'	7.23	1.52	1.41
85	A5	127	G	C2'-C1'	-7.23	1.42	1.53
36	B2	85	A	C2'-C1'	-7.23	1.42	1.53
36	B2	1772	C	C2'-C1'	-7.23	1.42	1.53
85	A5	4983	C	O4'-C1'	7.23	1.52	1.41
85	A5	183	C	O4'-C1'	7.22	1.52	1.41
85	A5	1420	A	O4'-C1'	7.22	1.52	1.42
85	A5	2321	G	O4'-C1'	7.22	1.52	1.41
36	B2	497	C	C2'-C1'	-7.22	1.42	1.53
85	A5	2065	G	O4'-C1'	7.22	1.52	1.41
85	A5	2615	C	C2'-C1'	-7.22	1.42	1.53
36	B2	222	U	O4'-C1'	7.22	1.52	1.41
85	A5	704	C	O4'-C1'	7.22	1.52	1.41
85	A5	3763	A	O4'-C1'	7.22	1.52	1.41
85	A5	4624	A	O4'-C1'	7.22	1.52	1.41
36	B2	1666	C	O4'-C1'	7.21	1.52	1.41
81	CE	119	GLU	N-CA	-7.21	1.36	1.46
85	A5	2500	U	C2'-C1'	-7.21	1.42	1.53
85	A5	1579	C	C2'-C1'	-7.21	1.42	1.53
36	B2	1035	A	C2'-C1'	-7.21	1.42	1.53
47	CI	194	GLY	C-N	-7.21	1.22	1.33
85	A5	4251	A	C2'-C1'	-7.21	1.42	1.53
36	B2	1471	C	C2'-C1'	-7.21	1.42	1.53
85	A5	4221	C	O4'-C1'	7.21	1.52	1.42
36	B2	1635	C	O4'-C1'	7.21	1.52	1.41
85	A5	3709	U	O4'-C1'	7.20	1.52	1.42
36	B2	176	U	O4'-C1'	7.20	1.52	1.41
85	A5	1174	G	O4'-C1'	-7.20	1.30	1.41
85	A5	1360	G	O3'-P	-7.20	1.50	1.61
85	A5	265	C	O4'-C1'	7.20	1.52	1.42
85	A5	2614	C	O4'-C1'	7.20	1.52	1.41
36	B2	1059	G	C2'-C1'	-7.19	1.42	1.53
85	A5	3702	A	O4'-C1'	7.19	1.52	1.41
85	A5	4263	C	C2'-C1'	-7.19	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4442	U	O4'-C1'	7.19	1.52	1.41
57	CY	83	GLU	N-CA	-7.19	1.36	1.46
86	A7	72	U	C2'-C1'	-7.19	1.42	1.53
85	A5	4207	C	O4'-C1'	7.19	1.52	1.41
85	A5	1699	A	O4'-C1'	-7.18	1.31	1.42
85	A5	1740	C	C2'-C1'	7.18	1.63	1.53
85	A5	4109	G	C2'-C1'	-7.18	1.42	1.53
54	CP	109	VAL	N-CA	7.18	1.54	1.46
36	B2	1790	A	C2'-C1'	-7.18	1.42	1.53
85	A5	2060	G	C2'-C1'	-7.18	1.42	1.53
85	A5	987	C	O4'-C1'	7.18	1.52	1.41
36	B2	1432	U	C2'-C1'	-7.17	1.42	1.53
68	Cf	106	TYR	N-CA	-7.17	1.41	1.46
85	A5	2701	U	C2'-C1'	-7.17	1.42	1.53
36	B2	936	G	C2'-C1'	-7.17	1.42	1.53
49	CQ	7	HIS	N-CA	7.17	1.55	1.46
53	CT	24	VAL	CA-CB	-7.17	1.44	1.54
85	A5	1516	G	O4'-C1'	7.17	1.52	1.41
36	B2	1825	A	C2'-C1'	7.17	1.64	1.53
85	A5	2079	G	O4'-C1'	7.17	1.52	1.41
85	A5	4619	U	C2'-C1'	-7.17	1.42	1.53
85	A5	3807	A	O4'-C1'	7.17	1.52	1.41
36	B2	554	A	C2'-C1'	-7.17	1.42	1.53
85	A5	1831	G	O4'-C1'	7.17	1.52	1.41
85	A5	1875	C	O4'-C1'	7.17	1.52	1.41
85	A5	2742	G	O4'-C1'	7.17	1.52	1.41
36	B2	1154	U	O4'-C1'	-7.16	1.31	1.42
36	B2	1751	C	C2'-C1'	-7.16	1.42	1.53
36	B2	1791	A	O4'-C1'	7.16	1.52	1.41
36	B2	1329	U	O4'-C1'	7.16	1.52	1.41
36	B2	1532	C	O4'-C1'	7.16	1.52	1.41
85	A5	2281	U	O4'-C1'	7.16	1.52	1.41
85	A5	724	C	O4'-C1'	7.16	1.52	1.41
36	B2	892	U	C2'-C1'	-7.16	1.42	1.53
85	A5	2281	U	C2'-C1'	-7.16	1.42	1.53
85	A5	3829	G	C2'-C1'	-7.16	1.42	1.53
37	BC	63	U	C2'-C1'	-7.15	1.42	1.53
68	Cf	106	TYR	C-O	-7.15	1.18	1.24
85	A5	1805	A	O4'-C1'	-7.15	1.31	1.42
85	A5	3942	A	C2'-C1'	7.15	1.64	1.53
85	A5	66	A	O4'-C1'	7.15	1.52	1.41
85	A5	4060	U	C2'-C1'	7.15	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	AO	103	ASN	CA-C	-7.14	1.42	1.52
36	B2	912	C	O4'-C1'	7.14	1.52	1.42
26	AJ	89	GLU	N-CA	7.14	1.55	1.46
36	B2	1684	C	O4'-C1'	7.14	1.52	1.41
85	A5	63	G	C2'-C1'	-7.14	1.42	1.53
85	A5	199	G	C2'-C1'	-7.14	1.42	1.53
18	AY	103	SER	C-N	7.14	1.43	1.33
36	B2	1205	C	C2'-C1'	-7.14	1.42	1.53
23	AD	193	ASP	N-CA	-7.14	1.40	1.46
85	A5	391	U	O4'-C1'	7.14	1.52	1.41
85	A5	4258	C	C2'-C1'	-7.14	1.42	1.53
86	A7	7	G	O4'-C1'	7.14	1.52	1.41
36	B2	1090	C	O4'-C1'	7.14	1.52	1.41
36	B2	164	A	O4'-C1'	7.14	1.52	1.41
85	A5	250	C	C2'-C1'	-7.14	1.42	1.53
85	A5	1994	C	O4'-C1'	7.13	1.52	1.41
85	A5	3913	G	O4'-C1'	7.13	1.52	1.42
81	CE	70	LYS	CA-CB	7.13	1.64	1.53
85	A5	4928	C	C2'-C1'	-7.13	1.42	1.53
36	B2	635	G	O4'-C1'	7.13	1.52	1.41
85	A5	2338	C	O4'-C1'	7.13	1.52	1.41
26	AJ	187	ALA	N-CA	7.13	1.57	1.46
85	A5	2023	C	O4'-C1'	7.13	1.52	1.41
36	B2	1083	A	O4'-C1'	7.12	1.52	1.41
85	A5	1430	C	C2'-C1'	-7.12	1.42	1.53
36	B2	1441	U	C2'-C1'	7.12	1.63	1.53
63	CB	292	LEU	CA-C	7.12	1.62	1.52
20	Aa	10	ARG	NE-CZ	7.12	1.40	1.33
36	B2	521	A	C2'-C1'	-7.12	1.42	1.53
36	B2	1187	G	O4'-C1'	7.12	1.52	1.41
81	CE	58	SER	C-N	-7.12	1.23	1.33
36	B2	1205	C	O4'-C1'	7.12	1.52	1.41
36	B2	1394	G	O4'-C1'	7.12	1.52	1.41
85	A5	1081	C	O4'-C1'	7.12	1.52	1.41
36	B2	786	G	O4'-C1'	7.11	1.52	1.41
85	A5	302	C	C2'-C1'	-7.11	1.42	1.53
36	B2	969	U	O4'-C1'	7.11	1.52	1.42
85	A5	2366	A	C2'-C1'	-7.11	1.42	1.53
85	A5	4136	G	C2'-C1'	-7.11	1.42	1.53
85	A5	4924	C	C2'-C1'	-7.11	1.42	1.53
28	AC	120	GLN	N-CA	7.11	1.55	1.45
36	B2	1814	G	C2'-C1'	-7.11	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
60	Cr	91	SER	C-N	7.11	1.42	1.33
87	A8	130	C	O4'-C1'	7.11	1.52	1.41
85	A5	1409	C	C2'-C1'	7.11	1.63	1.53
85	A5	2886	U	C2'-C1'	-7.11	1.42	1.53
85	A5	2319	C	C2'-C1'	-7.10	1.42	1.53
85	A5	207	G	O4'-C1'	7.10	1.52	1.41
85	A5	4346	U	C2'-C1'	-7.10	1.42	1.53
85	A5	4605	A	O4'-C1'	7.10	1.52	1.41
85	A5	275	C	C2'-C1'	-7.10	1.42	1.53
85	A5	1176	C	O4'-C1'	7.10	1.52	1.41
85	A5	4314	C	O4'-C1'	7.10	1.52	1.41
36	B2	603	C	O4'-C1'	7.10	1.52	1.42
36	B2	731	G	O4'-C1'	7.10	1.52	1.41
85	A5	956	A	O4'-C1'	7.10	1.52	1.42
85	A5	2638	G	C2'-C1'	7.09	1.64	1.53
85	A5	4155	C	C2'-C1'	-7.09	1.42	1.53
87	A8	129	C	O4'-C1'	7.09	1.52	1.41
36	B2	574	A	C2'-C1'	-7.09	1.42	1.53
36	B2	13	C	C2'-C1'	-7.09	1.42	1.53
85	A5	1665	C	C2'-C1'	-7.09	1.42	1.53
85	A5	4208	U	C2'-C1'	-7.09	1.42	1.53
36	B2	1111	U	O4'-C1'	7.09	1.52	1.41
67	Ce	7	LEU	CA-C	-7.08	1.43	1.52
85	A5	340	C	C2'-C1'	-7.08	1.42	1.53
39	Cq	229	ILE	C-N	7.08	1.40	1.33
36	B2	491	C	C2'-C1'	-7.08	1.42	1.53
85	A5	1427	A	O4'-C1'	7.08	1.52	1.41
85	A5	2054	U	C2'-C1'	7.08	1.63	1.53
36	B2	1324	G	C2'-C1'	-7.08	1.42	1.53
85	A5	4574	U	O4'-C1'	7.08	1.52	1.41
36	B2	1103	C	C2'-C1'	-7.08	1.42	1.53
85	A5	4908	G	O4'-C1'	7.08	1.52	1.41
85	A5	4943	A	O4'-C1'	7.08	1.52	1.41
86	A7	12	U	O4'-C1'	7.08	1.52	1.42
85	A5	1546	C	O4'-C1'	7.07	1.52	1.41
85	A5	4338	G	O4'-C1'	7.07	1.52	1.42
8	AS	6	PRO	C-N	7.07	1.43	1.33
85	A5	3937	C	O4'-C1'	7.07	1.52	1.41
87	A8	121	G	C2'-C1'	-7.07	1.42	1.53
36	B2	1867	U	C2'-C1'	7.07	1.63	1.53
85	A5	296	A	O4'-C1'	-7.07	1.31	1.41
85	A5	1575	A	C2'-C1'	-7.07	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1082	C	C2'-C1'	-7.07	1.42	1.53
85	A5	4425	G	O4'-C1'	7.07	1.52	1.41
85	A5	202	C	O4'-C1'	7.06	1.52	1.41
36	B2	159	A	O4'-C1'	7.06	1.52	1.41
36	B2	685	A	C2'-C1'	-7.06	1.42	1.53
85	A5	4355	G	O4'-C1'	7.06	1.52	1.41
36	B2	307	G	C2'-C1'	7.06	1.64	1.53
85	A5	2362	U	C2'-C1'	7.06	1.64	1.53
85	A5	4607	A	C2'-C1'	7.06	1.64	1.53
85	A5	251	C	O4'-C1'	7.06	1.52	1.41
85	A5	2397	G	O4'-C1'	-7.06	1.31	1.42
74	CC	304	ALA	C-N	-7.05	1.17	1.33
85	A5	323	C	O4'-C1'	7.05	1.52	1.41
85	A5	1724	G	C2'-C1'	7.05	1.63	1.53
36	B2	1208	A	C2'-C1'	7.05	1.64	1.53
36	B2	1674	G	C2'-C1'	-7.05	1.42	1.53
85	A5	3680	U	C2'-C1'	-7.05	1.42	1.53
53	CT	144	ASN	N-CA	-7.05	1.36	1.45
85	A5	2035	C	C2'-C1'	-7.05	1.42	1.53
86	A7	28	C	C2'-C1'	-7.05	1.42	1.53
85	A5	5021	C	O4'-C1'	7.04	1.52	1.41
58	CW	75	ALA	CA-C	7.04	1.62	1.52
85	A5	691	C	O4'-C1'	7.04	1.52	1.41
85	A5	3808	C	O4'-C1'	7.04	1.52	1.41
85	A5	3929	G	O4'-C1'	7.04	1.52	1.41
19	AZ	112	ASN	CA-C	7.04	1.61	1.52
85	A5	1768	C	C2'-C1'	7.04	1.63	1.53
85	A5	715	G	C2'-C1'	-7.04	1.42	1.53
85	A5	4091	G	C2'-C1'	-7.03	1.42	1.53
85	A5	5054	C	C2'-C1'	7.03	1.63	1.53
85	A5	2710	C	O4'-C1'	7.03	1.52	1.41
85	A5	4384	U	O4'-C1'	7.03	1.52	1.41
85	A5	1392	A	O4'-C1'	7.03	1.52	1.41
85	A5	2585	C	C2'-C1'	7.03	1.63	1.53
11	AL	151	THR	CA-CB	7.02	1.62	1.53
85	A5	480	C	C2'-C1'	-7.02	1.42	1.53
85	A5	2453	A	O4'-C1'	7.02	1.52	1.41
85	A5	4626	A	C2'-C1'	-7.02	1.42	1.53
36	B2	1371	U	O4'-C1'	7.02	1.52	1.42
36	B2	1599	U	C2'-C1'	7.02	1.63	1.53
85	A5	163	A	O4'-C1'	7.02	1.52	1.41
85	A5	1755	C	O4'-C1'	7.02	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2326	G	O4'-C1'	7.02	1.52	1.41
85	A5	3826	C	O4'-C1'	7.02	1.52	1.41
85	A5	1413	C	C2'-C1'	-7.02	1.42	1.53
85	A5	2705	G	C2'-C1'	-7.02	1.42	1.53
87	A8	10	G	C2'-C1'	-7.02	1.42	1.53
85	A5	341	G	C2'-C1'	-7.01	1.42	1.53
85	A5	3738	G	O4'-C1'	7.01	1.52	1.41
85	A5	4172	A	O4'-C1'	-7.01	1.31	1.41
74	CC	91	ALA	CA-C	-7.01	1.44	1.52
87	A8	6	C	C2'-C1'	-7.01	1.42	1.53
78	Co	13	LYS	N-CA	-7.00	1.33	1.46
36	B2	833	C	C2'-C1'	-7.00	1.42	1.53
26	AJ	100	LEU	N-CA	7.00	1.54	1.45
65	Cc	92	CYS	CA-C	-7.00	1.43	1.52
85	A5	18	C	O4'-C1'	7.00	1.52	1.41
85	A5	1582	U	O4'-C1'	7.00	1.52	1.41
36	B2	941	C	O4'-C1'	7.00	1.52	1.41
85	A5	1340	C	C2'-C1'	-7.00	1.42	1.53
85	A5	1656	U	O4'-C1'	7.00	1.52	1.41
36	B2	1628	C	O4'-C1'	7.00	1.52	1.41
85	A5	699	C	C2'-C1'	-7.00	1.42	1.53
85	A5	2340	C	O4'-C1'	7.00	1.52	1.41
36	B2	1796	G	C2'-C1'	-6.99	1.42	1.53
85	A5	2695	A	O4'-C1'	-6.99	1.31	1.42
85	A5	2750	G	C2'-C1'	-6.99	1.42	1.53
85	A5	4073	A	C2'-C1'	-6.99	1.42	1.53
36	B2	88	G	C2'-C1'	-6.99	1.42	1.53
36	B2	1144	A	O4'-C1'	6.99	1.52	1.41
36	B2	547	G	O4'-C1'	6.99	1.52	1.41
36	B2	640	A	O4'-C1'	6.99	1.52	1.41
85	A5	2655	C	O4'-C1'	6.99	1.52	1.41
85	A5	4773	C	O4'-C1'	6.99	1.52	1.41
85	A5	4538	G	C2'-C1'	-6.98	1.42	1.53
85	A5	2424	G	C2'-C1'	-6.98	1.42	1.53
87	A8	1	C	C2'-C1'	-6.98	1.42	1.53
85	A5	2781	G	C2'-C1'	-6.98	1.42	1.53
85	A5	1945	G	C2'-C1'	-6.98	1.42	1.53
36	B2	1466	G	C2'-C1'	-6.98	1.42	1.53
85	A5	1189	G	C2'-C1'	-6.97	1.42	1.53
85	A5	4594	U	C2'-C1'	-6.97	1.42	1.53
36	B2	237	C	C2'-C1'	6.97	1.63	1.53
78	Co	95	GLY	C-N	-6.97	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	3802	U	C2'-C1'	-6.97	1.42	1.53
86	A7	52	C	C2'-C1'	-6.97	1.42	1.53
12	AR	87	GLU	CA-C	-6.97	1.43	1.52
85	A5	1879	C	O4'-C1'	6.97	1.52	1.41
36	B2	457	C	O4'-C1'	6.97	1.52	1.41
36	B2	803	C	C2'-C1'	-6.96	1.43	1.53
81	CE	41	LYS	CA-C	6.96	1.61	1.52
87	A8	117	C	O4'-C1'	6.96	1.52	1.41
85	A5	1803	G	O4'-C1'	6.96	1.52	1.42
85	A5	4553	A	C2'-C1'	-6.96	1.43	1.53
85	A5	4750	G	C2'-C1'	-6.96	1.42	1.53
58	CW	76	VAL	N-CA	6.96	1.55	1.46
85	A5	3860	A	O4'-C1'	6.96	1.52	1.41
36	B2	743	U	O4'-C1'	6.96	1.52	1.42
85	A5	334	A	C2'-C1'	-6.96	1.43	1.53
85	A5	273	U	C2'-C1'	-6.96	1.43	1.53
36	B2	358	C	O4'-C1'	6.96	1.52	1.41
36	B2	1032	C	O4'-C1'	6.96	1.52	1.41
74	CC	249	PHE	C-N	6.96	1.43	1.33
36	B2	1712	A	C2'-C1'	-6.95	1.43	1.53
85	A5	334	A	C5'-C4'	6.95	1.61	1.51
85	A5	1692	C	C2'-C1'	-6.95	1.43	1.53
85	A5	4184	G	C2'-C1'	-6.95	1.43	1.53
36	B2	655	A	C2'-C1'	-6.95	1.42	1.53
36	B2	1800	A	O4'-C1'	6.95	1.52	1.41
31	AH	109	ARG	N-CA	-6.94	1.37	1.46
36	B2	1787	G	C2'-C1'	-6.94	1.43	1.53
36	B2	1824	A	O4'-C1'	-6.94	1.31	1.41
2	Ag	143	GLN	N-CA	-6.94	1.37	1.46
44	CM	33	GLN	CA-C	6.94	1.61	1.52
64	CF	220	MET	C-N	6.94	1.44	1.33
85	A5	201	C	O4'-C1'	6.94	1.52	1.41
36	B2	1484	A	O4'-C1'	6.93	1.52	1.41
85	A5	712	C	C2'-C1'	-6.93	1.43	1.53
85	A5	2890	C	O4'-C1'	6.93	1.52	1.41
85	A5	2446	C	O4'-C1'	6.93	1.52	1.41
85	A5	672	C	O4'-C1'	6.93	1.52	1.41
85	A5	1473	U	O4'-C1'	6.93	1.52	1.41
37	BC	19	A	C2'-C1'	6.93	1.63	1.53
85	A5	2644	G	C2'-C1'	-6.93	1.43	1.53
85	A5	1106	A	O4'-C1'	6.92	1.52	1.41
85	A5	4242	U	O4'-C1'	6.92	1.52	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	907	C	O4'-C1'	6.92	1.52	1.41
85	A5	2045	G	C2'-C1'	-6.92	1.42	1.53
85	A5	3605	C	O4'-C1'	6.92	1.52	1.41
85	A5	4666	G	C2'-C1'	-6.92	1.43	1.53
36	B2	1444	U	C2'-C1'	-6.92	1.43	1.53
85	A5	2633	U	C2'-C1'	-6.92	1.43	1.53
36	B2	31	U	C2'-C1'	6.92	1.63	1.53
85	A5	1236	C	O4'-C1'	6.92	1.52	1.41
85	A5	3926	C	O4'-C1'	6.92	1.52	1.41
53	CT	3	ASN	CA-CB	6.91	1.65	1.53
85	A5	1108	C	O4'-C1'	6.91	1.52	1.41
74	CC	14	LYS	CA-C	-6.91	1.44	1.52
51	CA	103	PRO	N-CD	6.91	1.57	1.47
36	B2	1527	C	O4'-C1'	6.91	1.52	1.41
85	A5	175	C	C2'-C1'	-6.91	1.43	1.53
36	B2	1436	C	C2'-C1'	-6.90	1.43	1.53
36	B2	609	U	O4'-C1'	6.90	1.51	1.41
85	A5	754	U	C2'-C1'	6.90	1.63	1.53
85	A5	1811	G	O4'-C1'	-6.90	1.31	1.42
36	B2	867	G	O4'-C1'	6.90	1.51	1.41
85	A5	1922	G	C2'-C1'	-6.90	1.43	1.53
85	A5	388	A	O4'-C1'	6.89	1.51	1.41
85	A5	1109	C	C2'-C1'	-6.89	1.43	1.53
36	B2	379	C	O4'-C1'	6.89	1.51	1.41
85	A5	511	C	O4'-C1'	6.89	1.51	1.41
85	A5	4579	U	C2'-C1'	-6.89	1.43	1.53
36	B2	1855	G	C2'-C1'	-6.89	1.43	1.53
85	A5	2408	U	C2'-C1'	-6.89	1.42	1.53
87	A8	48	A	C2'-C1'	6.89	1.63	1.53
36	B2	346	C	O4'-C1'	6.89	1.51	1.41
85	A5	2856	C	O4'-C1'	6.89	1.51	1.41
36	B2	1313	A	O4'-C1'	6.89	1.52	1.42
36	B2	1406	G	C2'-C1'	-6.89	1.43	1.53
36	B2	1541	G	C2'-C1'	-6.89	1.43	1.53
85	A5	2507	A	C2'-C1'	-6.89	1.43	1.53
85	A5	1566	C	O4'-C1'	6.88	1.51	1.41
85	A5	4909	A	C2'-C1'	6.88	1.63	1.53
81	CE	31	ASN	CA-C	6.88	1.61	1.52
36	B2	833	C	O4'-C1'	6.88	1.51	1.41
85	A5	2446	C	C2'-C1'	-6.88	1.43	1.53
85	A5	1214	C	O4'-C1'	-6.88	1.31	1.41
36	B2	634	A	O4'-C1'	6.88	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	710	G	O4'-C1'	6.88	1.51	1.41
85	A5	1066	G	O4'-C1'	6.88	1.51	1.41
36	B2	1454	A	O4'-C1'	6.88	1.51	1.41
44	CM	70	GLN	C-N	6.88	1.43	1.33
57	CY	86	GLN	N-CA	6.88	1.54	1.46
36	B2	884	C	O4'-C1'	6.87	1.51	1.41
36	B2	1710	C	O4'-C1'	6.87	1.51	1.41
85	A5	1436	C	C2'-C1'	-6.87	1.43	1.53
85	A5	1875	C	C2'-C1'	-6.87	1.43	1.53
85	A5	1283	G	C2'-C1'	-6.87	1.43	1.53
85	A5	2806	A	O4'-C1'	-6.87	1.31	1.42
85	A5	1467	C	C2'-C1'	-6.87	1.43	1.53
36	B2	1553	C	C2'-C1'	6.87	1.63	1.53
36	B2	1749	G	C2'-C1'	-6.87	1.43	1.53
85	A5	4187	G	C2'-C1'	-6.87	1.43	1.53
85	A5	4255	A	C2'-C1'	-6.86	1.43	1.53
85	A5	450	G	C2'-C1'	6.86	1.63	1.53
85	A5	1694	C	O4'-C1'	6.86	1.51	1.41
36	B2	1265	A	O4'-C1'	6.86	1.52	1.42
53	CT	70	HIS	CA-C	-6.86	1.43	1.52
85	A5	3597	G	C2'-C1'	-6.86	1.43	1.53
85	A5	4965	U	C2'-C1'	6.86	1.63	1.53
85	A5	952	G	O4'-C1'	6.86	1.51	1.41
85	A5	990	C	C2'-C1'	6.86	1.63	1.53
85	A5	1534	A	C2'-C1'	-6.86	1.42	1.53
36	B2	546	G	O4'-C1'	6.86	1.51	1.41
56	CX	53	ARG	N-CA	-6.86	1.35	1.46
85	A5	3854	C	C2'-C1'	-6.86	1.43	1.53
85	A5	1456	C	O4'-C1'	6.85	1.51	1.41
53	CT	3	ASN	N-CA	-6.85	1.37	1.46
74	CC	356	ALA	C-N	6.85	1.42	1.33
36	B2	963	A	O4'-C1'	-6.85	1.31	1.41
36	B2	1507	G	C2'-C1'	-6.85	1.42	1.53
85	A5	1506	G	O4'-C1'	6.85	1.51	1.41
85	A5	2579	G	C2'-C1'	6.85	1.63	1.53
36	B2	1031	A	O4'-C1'	6.85	1.51	1.41
85	A5	2809	G	C2'-C1'	-6.85	1.43	1.53
36	B2	369	C	C2'-C1'	-6.84	1.42	1.53
36	B2	1584	G	O4'-C1'	6.84	1.52	1.42
85	A5	1587	G	C2'-C1'	-6.84	1.42	1.53
85	A5	2034	G	C2'-C1'	-6.84	1.43	1.53
85	A5	2544	G	O4'-C1'	6.84	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4418	G	C2'-C1'	6.84	1.63	1.53
1	Az	410	PHE	C-N	6.84	1.43	1.33
7	AM	52	GLN	CA-C	-6.84	1.49	1.53
21	Ab	53	VAL	CA-CB	-6.84	1.46	1.54
85	A5	3835	C	C2'-C1'	-6.84	1.43	1.53
85	A5	1255	A	C2'-C1'	-6.84	1.42	1.53
85	A5	1930	U	O4'-C1'	6.84	1.52	1.42
85	A5	4415	A	O4'-C1'	6.84	1.51	1.41
62	Cb	50	ASN	N-CA	-6.83	1.38	1.46
36	B2	660	C	C2'-C1'	-6.83	1.43	1.53
85	A5	354	U	O4'-C1'	6.83	1.52	1.42
85	A5	4166	G	C2'-C1'	-6.83	1.43	1.53
81	CE	101	ASN	CA-C	-6.83	1.43	1.52
86	A7	120	U	C2'-C1'	6.83	1.63	1.53
74	CC	275	SER	N-CA	-6.83	1.37	1.46
85	A5	471	A	C2'-C1'	-6.83	1.43	1.53
52	CS	20	PRO	CA-C	-6.83	1.42	1.52
85	A5	1571	G	C2'-C1'	-6.83	1.43	1.53
85	A5	4506	C	O4'-C1'	6.83	1.51	1.41
85	A5	4253	A	O4'-C1'	6.82	1.52	1.42
85	A5	2044	U	O4'-C1'	6.82	1.52	1.42
36	B2	1830	U	O4'-C1'	6.82	1.52	1.42
52	CS	73	LEU	C-N	6.82	1.43	1.33
55	CU	56	LEU	C-N	-6.82	1.29	1.33
85	A5	1625	G	C2'-C1'	-6.82	1.42	1.53
6	AX	77	ASN	CA-C	-6.82	1.42	1.52
36	B2	1369	A	C2'-C1'	-6.82	1.43	1.53
85	A5	522	C	O4'-C1'	6.82	1.51	1.41
85	A5	2505	C	C2'-C1'	6.81	1.63	1.53
85	A5	89	C	O4'-C1'	6.81	1.51	1.41
36	B2	409	C	O4'-C1'	6.81	1.51	1.41
85	A5	10	A	C2'-C1'	-6.81	1.43	1.53
85	A5	2297	G	C2'-C1'	-6.81	1.43	1.53
85	A5	4059	C	O4'-C1'	6.80	1.51	1.41
37	BC	73	C	O4'-C1'	6.80	1.51	1.41
47	CI	206	LEU	C-N	6.80	1.43	1.33
85	A5	397	G	O4'-C1'	6.80	1.51	1.41
85	A5	1325	C	O4'-C1'	-6.80	1.31	1.42
85	A5	4431	U	O4'-C1'	6.80	1.51	1.41
15	AB	21	VAL	CA-CB	-6.80	1.45	1.54
58	CW	3	VAL	N-CA	-6.80	1.37	1.46
85	A5	1851	G	C2'-C1'	-6.80	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2029	A	C2'-C1'	-6.80	1.43	1.53
1	Az	53	GLU	CA-C	6.80	1.61	1.52
36	B2	1342	U	C2'-C1'	-6.80	1.42	1.53
36	B2	1407	U	O4'-C1'	6.80	1.51	1.41
85	A5	4206	C	C2'-C1'	-6.80	1.43	1.53
85	A5	322	C	C2'-C1'	-6.80	1.43	1.53
85	A5	1648	C	C2'-C1'	-6.80	1.43	1.53
85	A5	4893	A	C2'-C1'	-6.79	1.43	1.53
4	AK	93	THR	CA-CB	6.79	1.63	1.53
85	A5	3659	G	C2'-C1'	-6.79	1.43	1.53
85	A5	3921	U	O4'-C1'	6.79	1.51	1.41
85	A5	1800	U	C2'-C1'	-6.79	1.43	1.53
63	CB	32	PHE	CB-CG	-6.79	1.35	1.50
85	A5	4975	G	O4'-C1'	-6.79	1.31	1.42
30	AF	130	ARG	N-CA	6.79	1.56	1.46
40	CK	30	PRO	CA-C	-6.79	1.42	1.52
51	CA	68	ARG	CD-NE	6.79	1.55	1.46
4	AK	80	ARG	CA-C	-6.78	1.44	1.52
36	B2	1612	G	C2'-C1'	6.78	1.63	1.53
85	A5	2090	U	C5'-C4'	6.78	1.61	1.51
68	Cf	34	TYR	N-CA	-6.78	1.37	1.46
85	A5	1985	G	C2'-C1'	-6.78	1.43	1.53
85	A5	2386	U	O4'-C1'	6.78	1.51	1.41
85	A5	4957	C	C2'-C1'	-6.78	1.43	1.53
36	B2	166	A	C2'-C1'	-6.78	1.43	1.53
85	A5	1850	A	O4'-C1'	6.78	1.51	1.41
85	A5	4725	C	O4'-C1'	6.78	1.51	1.41
36	B2	347	G	O4'-C1'	6.78	1.51	1.41
82	CG	59	ARG	CA-C	-6.78	1.43	1.52
36	B2	60	A	O4'-C1'	-6.78	1.31	1.41
85	A5	4722	G	C2'-C1'	6.78	1.63	1.53
36	B2	1389	C	C2'-C1'	-6.77	1.43	1.53
85	A5	2805	C	C2'-C1'	-6.77	1.43	1.53
36	B2	1122	A	C2'-C1'	6.77	1.63	1.53
36	B2	1481	G	C2'-C1'	-6.77	1.43	1.53
40	CK	27	ALA	N-CA	6.77	1.54	1.45
85	A5	1256	G	C2'-C1'	-6.77	1.43	1.53
85	A5	1479	G	O4'-C1'	6.77	1.51	1.41
85	A5	4251	A	O4'-C1'	6.77	1.51	1.41
36	B2	450	C	C2'-C1'	6.77	1.63	1.53
36	B2	992	A	O4'-C1'	6.77	1.51	1.41
36	B2	1539	U	C2'-C1'	6.77	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	973	C	O4'-C1'	6.76	1.51	1.41
85	A5	1241	C	C2'-C1'	-6.76	1.43	1.53
87	A8	68	G	C2'-C1'	-6.76	1.43	1.53
36	B2	1325	G	O4'-C1'	6.76	1.51	1.41
36	B2	462	C	O4'-C1'	6.76	1.51	1.41
85	A5	211	G	C2'-C1'	-6.76	1.43	1.53
85	A5	1760	G	C2'-C1'	-6.76	1.43	1.53
85	A5	2520	C	O4'-C1'	6.76	1.51	1.41
63	CB	77	THR	CA-CB	-6.75	1.43	1.53
28	AC	120	GLN	CA-C	6.75	1.62	1.53
85	A5	3736	A	O4'-C1'	6.75	1.51	1.41
1	Az	122	THR	N-CA	-6.75	1.37	1.46
36	B2	573	U	O4'-C1'	6.75	1.51	1.41
85	A5	395	A	O4'-C1'	6.75	1.51	1.41
85	A5	976	G	C2'-C1'	-6.75	1.43	1.53
85	A5	1098	G	C2'-C1'	-6.75	1.43	1.53
85	A5	1182	C	C2'-C1'	-6.75	1.43	1.53
85	A5	317	A	O4'-C1'	6.75	1.51	1.41
55	CU	124	GLU	N-CA	-6.75	1.37	1.46
85	A5	1674	C	O4'-C1'	6.75	1.51	1.41
37	BC	73	C	C2'-C1'	-6.75	1.43	1.53
85	A5	2367	A	O4'-C1'	6.75	1.51	1.41
85	A5	4424	A	C2'-C1'	-6.75	1.43	1.53
36	B2	1127	C	O4'-C1'	6.75	1.51	1.41
81	CE	39	LYS	C-N	6.75	1.42	1.33
85	A5	4386	C	C2'-C1'	-6.75	1.43	1.53
81	CE	126	LEU	N-CA	6.74	1.56	1.46
85	A5	4654	C	O4'-C1'	6.74	1.51	1.41
85	A5	681	G	C2'-C1'	-6.74	1.43	1.53
85	A5	1933	G	C2'-C1'	-6.74	1.43	1.53
35	Ah	150	GLU	N-CA	6.73	1.54	1.46
85	A5	648	G	C2'-C1'	-6.73	1.43	1.53
33	AI	54	LYS	C-N	-6.73	1.24	1.33
36	B2	1718	G	C2'-C1'	-6.73	1.43	1.53
74	CC	14	LYS	N-CA	-6.73	1.37	1.46
85	A5	1868	A	C2'-C1'	6.73	1.63	1.53
85	A5	3974	G	C2'-C1'	-6.73	1.43	1.53
85	A5	1425	G	O4'-C1'	6.73	1.51	1.41
85	A5	1517	G	O4'-C1'	6.73	1.51	1.41
85	A5	3780	G	C2'-C1'	-6.73	1.43	1.53
85	A5	2496	G	C2'-C1'	-6.73	1.43	1.53
85	A5	2773	G	C2'-C1'	-6.73	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AD	193	ASP	CA-C	-6.72	1.44	1.52
36	B2	191	A	O4'-C1'	6.72	1.51	1.41
36	B2	1623	A	C2'-C1'	6.72	1.63	1.53
85	A5	1473	U	C2'-C1'	-6.72	1.43	1.53
85	A5	1586	G	C2'-C1'	-6.72	1.43	1.53
24	Ae	3	HIS	C-N	6.72	1.43	1.33
85	A5	4988	U	C2'-C1'	-6.72	1.43	1.53
5	AO	129	ILE	CA-CB	-6.72	1.45	1.54
36	B2	49	C	O4'-C1'	6.72	1.51	1.41
36	B2	377	G	C2'-C1'	-6.71	1.43	1.53
39	Cq	33	ASP	C-N	6.71	1.42	1.33
85	A5	4071	U	O4'-C1'	6.71	1.51	1.41
36	B2	1331	C	O4'-C1'	6.71	1.52	1.42
85	A5	1596	U	O4'-C1'	6.71	1.51	1.41
85	A5	3633	C	O4'-C1'	6.71	1.51	1.41
85	A5	3692	A	C2'-C1'	6.71	1.63	1.53
58	CW	75	ALA	N-CA	6.71	1.54	1.46
85	A5	2735	G	C2'-C1'	-6.71	1.43	1.53
85	A5	3751	G	O4'-C1'	6.71	1.51	1.41
86	A7	100	A	C2'-C1'	-6.71	1.43	1.53
37	BC	2	G	O4'-C1'	-6.71	1.31	1.41
36	B2	1130	G	O4'-C1'	-6.70	1.31	1.41
36	B2	1802	C	O4'-C1'	6.70	1.51	1.41
38	Cz	207	LYS	N-CA	-6.70	1.38	1.46
85	A5	4225	G	O4'-C1'	-6.70	1.31	1.41
85	A5	4620	U	O4'-C1'	6.70	1.51	1.41
82	CG	106	THR	CA-C	-6.70	1.43	1.52
36	B2	824	C	O4'-C1'	6.70	1.51	1.41
36	B2	1032	C	C2'-C1'	-6.70	1.43	1.53
36	B2	1609	C	O4'-C1'	6.70	1.51	1.41
85	A5	3723	A	C2'-C1'	-6.70	1.43	1.53
58	CW	24	THR	CA-CB	-6.70	1.42	1.53
85	A5	432	U	C2'-C1'	-6.70	1.43	1.53
85	A5	695	G	C2'-C1'	-6.70	1.43	1.53
85	A5	1583	A	C2'-C1'	6.70	1.63	1.53
85	A5	2600	A	C2'-C1'	-6.70	1.43	1.53
85	A5	4250	G	O4'-C1'	6.70	1.51	1.41
36	B2	42	A	C2'-C1'	-6.70	1.43	1.53
36	B2	676	C	C2'-C1'	-6.70	1.43	1.53
36	B2	1279	C	C2'-C1'	6.70	1.63	1.53
85	A5	4076	G	C2'-C1'	-6.70	1.43	1.53
85	A5	2293	U	O4'-C1'	6.69	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	3645	U	O4'-C1'	6.69	1.51	1.41
85	A5	4099	G	C2'-C1'	-6.69	1.43	1.53
85	A5	4329	G	C2'-C1'	6.69	1.63	1.53
86	A7	2	U	C2'-C1'	-6.69	1.43	1.53
85	A5	1640	C	C2'-C1'	6.69	1.63	1.53
85	A5	4065	G	C2'-C1'	-6.69	1.43	1.53
86	A7	97	G	C2'-C1'	-6.69	1.43	1.53
37	BC	27	U	C2'-C1'	6.69	1.63	1.53
85	A5	3676	G	C2'-C1'	-6.69	1.43	1.53
85	A5	4762	A	O4'-C1'	-6.69	1.31	1.42
85	A5	1457	G	O4'-C1'	6.68	1.51	1.41
36	B2	49	C	C2'-C1'	-6.68	1.43	1.53
70	Ci	18	THR	CA-CB	-6.68	1.44	1.53
85	A5	4596	C	C2'-C1'	-6.68	1.43	1.53
85	A5	445	U	C2'-C1'	6.68	1.63	1.53
85	A5	4459	U	O4'-C1'	6.68	1.51	1.41
36	B2	284	C	O4'-C1'	6.68	1.51	1.41
36	B2	37	C	O4'-C1'	6.67	1.51	1.41
36	B2	1347	U	O4'-C1'	6.67	1.51	1.41
85	A5	3953	G	C2'-C1'	-6.67	1.43	1.53
13	AP	37	TYR	C-N	6.67	1.43	1.33
36	B2	473	A	O4'-C1'	6.67	1.51	1.41
48	CD	57	ASN	N-CA	-6.67	1.38	1.46
36	B2	1652	G	C2'-C1'	-6.67	1.43	1.53
85	A5	1468	C	C2'-C1'	-6.67	1.43	1.53
85	A5	240	G	O4'-C1'	6.66	1.51	1.41
85	A5	2257	C	C2'-C1'	6.66	1.63	1.53
85	A5	2347	A	O4'-C1'	6.66	1.51	1.42
87	A8	70	G	C2'-C1'	-6.66	1.43	1.53
85	A5	1771	U	C2'-C1'	6.66	1.63	1.53
23	AD	94	ARG	CA-C	-6.66	1.43	1.52
85	A5	129	C	O4'-C1'	6.66	1.51	1.41
81	CE	118	THR	CA-C	-6.66	1.43	1.52
85	A5	283	G	C2'-C1'	-6.66	1.43	1.53
85	A5	1180	C	C2'-C1'	-6.66	1.43	1.53
85	A5	4319	C	O4'-C1'	6.66	1.51	1.41
86	A7	56	G	C2'-C1'	-6.66	1.43	1.53
85	A5	1969	G	O4'-C1'	-6.65	1.31	1.41
85	A5	4315	A	O4'-C1'	6.65	1.51	1.41
23	AD	4	GLN	CA-C	-6.65	1.43	1.52
38	Cz	99	LEU	CA-C	6.65	1.61	1.52
85	A5	1647	U	O4'-C1'	6.65	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	554	A	O4'-C1'	-6.65	1.31	1.41
36	B2	729	C	O4'-C1'	6.65	1.51	1.41
85	A5	2090	U	O4'-C1'	-6.65	1.31	1.42
85	A5	4694	G	O4'-C1'	-6.65	1.31	1.42
85	A5	371	A	C2'-C1'	-6.65	1.43	1.53
85	A5	1072	C	C2'-C1'	-6.65	1.43	1.53
85	A5	1567	U	O4'-C1'	6.65	1.51	1.41
29	AG	157	VAL	CA-C	-6.65	1.45	1.52
36	B2	1181	A	C2'-C1'	-6.65	1.43	1.53
85	A5	1288	G	C2'-C1'	-6.65	1.43	1.53
85	A5	2452	G	C2'-C1'	-6.65	1.43	1.53
81	CE	57	TYR	CA-C	-6.64	1.39	1.52
58	CW	25	ASP	N-CA	-6.64	1.37	1.46
85	A5	1299	G	C2'-C1'	-6.64	1.43	1.53
85	A5	4918	C	O4'-C1'	6.64	1.51	1.41
85	A5	703	G	C2'-C1'	6.64	1.63	1.53
85	A5	1802	A	O4'-C1'	6.64	1.51	1.41
85	A5	2450	G	C2'-C1'	-6.64	1.43	1.53
85	A5	6	C	C2'-C1'	-6.64	1.43	1.53
36	B2	850	C	O4'-C1'	6.64	1.51	1.41
85	A5	3909	C	C2'-C1'	-6.64	1.43	1.53
36	B2	1564	C	C2'-C1'	-6.63	1.43	1.53
85	A5	3795	A	O4'-C1'	6.63	1.51	1.41
85	A5	4096	C	O4'-C1'	6.63	1.51	1.41
85	A5	2618	G	O4'-C1'	-6.63	1.31	1.41
85	A5	4285	U	C2'-C1'	-6.63	1.43	1.53
85	A5	383	A	O4'-C1'	6.63	1.51	1.41
39	Cq	68	HIS	N-CA	-6.63	1.38	1.46
85	A5	111	C	O4'-C1'	-6.63	1.32	1.42
85	A5	363	A	O4'-C1'	-6.63	1.32	1.42
85	A5	1193	C	O4'-C1'	6.63	1.51	1.41
85	A5	4117	U	O4'-C1'	-6.63	1.31	1.41
81	CE	73	TYR	C-N	-6.63	1.24	1.33
6	AX	58	GLU	CA-C	6.62	1.60	1.53
85	A5	34	A	O4'-C1'	6.62	1.51	1.41
74	CC	254	GLU	CA-C	-6.62	1.44	1.52
85	A5	113	A	C2'-C1'	-6.62	1.43	1.53
36	B2	352	U	O4'-C1'	6.62	1.51	1.41
85	A5	4164	C	O4'-C1'	6.62	1.51	1.41
85	A5	4921	C	C2'-C1'	-6.62	1.43	1.53
85	A5	4917	C	C2'-C1'	-6.62	1.43	1.53
36	B2	1317	C	O4'-C1'	6.62	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2696	A	C2'-C1'	6.62	1.63	1.53
85	A5	1375	C	O4'-C1'	6.62	1.51	1.41
36	B2	502	C	O4'-C1'	6.62	1.51	1.42
28	AC	87	PRO	N-CD	6.61	1.57	1.47
36	B2	1044	G	C2'-C1'	-6.61	1.43	1.53
85	A5	2616	C	C2'-C1'	-6.61	1.43	1.53
36	B2	69	C	C2'-C1'	-6.61	1.43	1.53
36	B2	942	G	O4'-C1'	6.61	1.51	1.41
85	A5	11	G	O4'-C1'	6.61	1.51	1.41
85	A5	672	C	C2'-C1'	-6.61	1.43	1.53
85	A5	4162	C	O4'-C1'	-6.61	1.31	1.41
85	A5	718	C	C2'-C1'	-6.61	1.43	1.53
36	B2	831	G	C2'-C1'	-6.61	1.43	1.53
85	A5	1482	G	O4'-C1'	-6.61	1.31	1.41
16	AA	194	PRO	CA-C	6.60	1.61	1.52
85	A5	4744	A	O4'-C1'	6.60	1.51	1.41
39	Cq	255	THR	CA-CB	-6.60	1.42	1.53
36	B2	528	A	O4'-C1'	6.60	1.51	1.41
36	B2	1296	U	O4'-C1'	6.60	1.51	1.41
60	Cr	77	TYR	CA-C	-6.60	1.44	1.52
74	CC	287	THR	N-CA	-6.60	1.37	1.46
81	CE	229	GLU	CA-C	-6.60	1.44	1.52
85	A5	924	C	O4'-C1'	6.60	1.51	1.41
85	A5	4173	G	O4'-C1'	6.60	1.51	1.41
85	A5	4471	U	O4'-C1'	6.60	1.51	1.41
21	Ab	26	GLN	CA-C	-6.59	1.44	1.53
77	Cp	36	LYS	N-CA	-6.59	1.37	1.46
85	A5	2316	G	C2'-C1'	-6.59	1.43	1.53
47	CI	176	PHE	N-CA	-6.59	1.37	1.46
85	A5	4966	A	O4'-C1'	6.59	1.51	1.41
85	A5	119	G	C2'-C1'	6.59	1.62	1.53
85	A5	4963	G	O4'-C1'	6.59	1.51	1.41
36	B2	1336	C	O4'-C1'	6.59	1.51	1.41
36	B2	452	G	O4'-C1'	6.58	1.51	1.41
85	A5	257	C	O4'-C1'	6.58	1.51	1.41
85	A5	1464	C	O4'-C1'	6.58	1.51	1.41
85	A5	1598	C	C2'-C1'	-6.58	1.43	1.53
85	A5	4039	G	O4'-C1'	6.58	1.51	1.41
87	A8	69	U	O4'-C1'	6.58	1.51	1.41
1	Az	760	TYR	CA-C	-6.58	1.44	1.52
36	B2	1573	G	O4'-C1'	6.58	1.51	1.41
85	A5	142	G	O4'-C1'	6.58	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	5033	G	O4'-C1'	6.58	1.51	1.41
85	A5	1268	G	O4'-C1'	6.58	1.51	1.42
85	A5	4987	C	O4'-C1'	6.58	1.51	1.41
36	B2	1049	A	O4'-C1'	-6.58	1.31	1.41
85	A5	234	G	C2'-C1'	6.58	1.62	1.53
85	A5	4916	G	O4'-C1'	6.57	1.51	1.41
85	A5	1438	U	O4'-C1'	6.57	1.51	1.41
36	B2	1427	C	O4'-C1'	6.57	1.51	1.41
69	Cg	83	CYS	N-CA	-6.57	1.38	1.46
85	A5	5004	C	C2'-C1'	-6.57	1.43	1.53
85	A5	2906	G	O4'-C1'	6.57	1.51	1.41
85	A5	328	A	O4'-C1'	6.57	1.51	1.41
85	A5	358	C	O4'-C1'	6.57	1.51	1.41
85	A5	964	A	O4'-C1'	6.57	1.51	1.41
36	B2	1643	U	O4'-C1'	6.56	1.51	1.41
36	B2	1651	A	C2'-C1'	6.56	1.63	1.53
85	A5	1459	A	O4'-C1'	6.56	1.51	1.41
36	B2	1303	C	O4'-C1'	-6.56	1.31	1.41
16	AA	53	ARG	CA-CB	-6.55	1.43	1.53
85	A5	1881	C	O4'-C1'	6.55	1.51	1.42
16	AA	159	ILE	CA-C	-6.55	1.44	1.52
36	B2	1075	C	O4'-C1'	6.55	1.51	1.41
74	CC	266	THR	CA-CB	-6.55	1.43	1.53
36	B2	1804	U	O4'-C1'	6.55	1.51	1.41
85	A5	2261	G	O4'-C1'	6.55	1.51	1.41
86	A7	23	A	C2'-C1'	-6.55	1.43	1.53
85	A5	2102	G	O4'-C1'	-6.54	1.31	1.41
1	Az	331	GLU	CA-C	6.54	1.60	1.52
85	A5	660	A	C2'-C1'	6.54	1.63	1.53
36	B2	1141	G	O4'-C1'	-6.54	1.31	1.41
85	A5	1248	C	O4'-C1'	6.54	1.51	1.41
85	A5	2108	G	C5'-C4'	6.54	1.61	1.51
85	A5	5036	C	C2'-C1'	-6.53	1.43	1.53
3	AU	69	PRO	N-CA	-6.53	1.39	1.47
85	A5	3641	U	O4'-C1'	6.53	1.51	1.41
36	B2	415	A	C2'-C1'	6.53	1.63	1.53
36	B2	1340	U	C2'-C1'	6.53	1.63	1.53
26	AJ	100	LEU	CA-C	6.53	1.62	1.53
85	A5	1295	C	C2'-C1'	-6.53	1.43	1.53
86	A7	109	U	C2'-C1'	6.53	1.62	1.53
36	B2	1249	C	O4'-C1'	6.53	1.51	1.41
36	B2	170	A	C2'-C1'	-6.52	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	5007	A	O4'-C1'	6.52	1.51	1.41
62	Cb	26	SER	CA-C	6.52	1.61	1.52
85	A5	2384	U	C2'-C1'	-6.52	1.43	1.53
85	A5	4630	G	C2'-C1'	-6.52	1.43	1.53
36	B2	1388	A	O4'-C1'	6.52	1.51	1.41
85	A5	91	G	O4'-C1'	6.52	1.51	1.41
85	A5	1380	G	C2'-C1'	-6.52	1.43	1.53
85	A5	1645	C	O4'-C1'	6.52	1.51	1.41
85	A5	3600	G	O4'-C1'	6.52	1.51	1.41
85	A5	4347	G	O4'-C1'	6.52	1.51	1.41
36	B2	353	C	O4'-C1'	6.52	1.51	1.41
38	Cz	99	LEU	C-O	-6.52	1.15	1.24
85	A5	2070	U	C2'-C1'	6.52	1.62	1.53
36	B2	1095	C	O4'-C1'	6.51	1.51	1.41
37	BC	32	C	O4'-C1'	6.51	1.51	1.41
85	A5	2790	U	O4'-C1'	6.51	1.51	1.42
85	A5	2528	G	C2'-C1'	-6.51	1.43	1.53
36	B2	904	A	C2'-C1'	-6.51	1.43	1.53
36	B2	1386	A	O4'-C1'	6.51	1.51	1.41
36	B2	396	U	O4'-C1'	6.51	1.51	1.41
36	B2	1814	G	O4'-C1'	6.51	1.51	1.41
85	A5	4294	C	O4'-C1'	6.51	1.51	1.41
85	A5	2359	U	O4'-C1'	6.51	1.51	1.41
36	B2	1683	C	C2'-C1'	-6.50	1.43	1.53
36	B2	1829	G	O4'-C1'	6.50	1.51	1.41
82	CG	106	THR	N-CA	-6.50	1.37	1.46
85	A5	2572	C	O4'-C1'	6.50	1.51	1.41
37	BC	12	G	C2'-C1'	-6.50	1.43	1.53
60	Cr	104	PRO	CA-C	-6.50	1.43	1.52
60	Cr	109	ALA	N-CA	-6.50	1.38	1.46
87	A8	156	U	O4'-C1'	6.50	1.51	1.41
55	CU	124	GLU	CA-C	-6.50	1.44	1.52
85	A5	301	G	C2'-C1'	-6.50	1.43	1.53
86	A7	108	G	C2'-C1'	-6.50	1.43	1.53
85	A5	4095	G	O4'-C1'	6.50	1.51	1.41
87	A8	54	C	C2'-C1'	-6.50	1.43	1.53
85	A5	2315	G	C2'-C1'	-6.50	1.43	1.53
85	A5	1304	C	O4'-C1'	6.50	1.51	1.41
85	A5	1776	A	C2'-C1'	-6.49	1.43	1.53
85	A5	2284	G	C2'-C1'	-6.49	1.43	1.53
85	A5	4070	U	C2'-C1'	-6.49	1.43	1.53
85	A5	1572	U	C2'-C1'	-6.49	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2614	C	C2'-C1'	-6.49	1.43	1.53
29	AG	131	ARG	CB-CG	6.49	1.72	1.52
36	B2	1754	G	O4'-C1'	6.49	1.51	1.41
57	CY	84	ARG	CA-C	-6.49	1.44	1.52
63	CB	356	LYS	CA-C	-6.49	1.44	1.52
85	A5	3786	U	O4'-C1'	6.49	1.51	1.42
36	B2	976	G	C2'-C1'	-6.48	1.43	1.53
85	A5	109	G	C2'-C1'	-6.48	1.43	1.53
85	A5	288	G	O4'-C1'	6.48	1.51	1.41
85	A5	1361	G	C2'-C1'	6.48	1.63	1.53
36	B2	822	U	O4'-C1'	6.48	1.51	1.41
85	A5	1283	G	O4'-C1'	6.48	1.51	1.41
85	A5	1764	G	O4'-C1'	-6.48	1.31	1.41
86	A7	86	G	C2'-C1'	-6.48	1.43	1.53
36	B2	1805	G	O4'-C1'	6.48	1.51	1.41
54	CP	145	HIS	CA-C	-6.48	1.45	1.52
85	A5	1446	C	C2'-C1'	-6.48	1.43	1.53
36	B2	1494	U	C2'-C1'	6.48	1.62	1.53
86	A7	15	C	O4'-C1'	6.48	1.51	1.41
52	CS	23	HIS	CA-C	-6.48	1.44	1.52
85	A5	8	U	O4'-C1'	6.48	1.51	1.41
85	A5	1397	A	C2'-C1'	6.48	1.63	1.53
85	A5	2599	G	O4'-C1'	6.48	1.51	1.41
85	A5	498	C	O4'-C1'	6.48	1.51	1.42
85	A5	2655	C	C2'-C1'	-6.48	1.43	1.53
36	B2	1045	U	O4'-C1'	6.47	1.51	1.41
49	CQ	6	ARG	CA-CB	6.47	1.63	1.53
85	A5	5064	G	O4'-C1'	6.47	1.51	1.41
59	CZ	35	ASP	N-CA	-6.47	1.37	1.46
85	A5	2846	G	C2'-C1'	-6.47	1.43	1.53
36	B2	943	U	C2'-C1'	-6.47	1.43	1.53
81	CE	274	VAL	N-CA	6.47	1.54	1.46
85	A5	661	C	O4'-C1'	6.47	1.51	1.41
85	A5	2449	A	O4'-C1'	6.47	1.51	1.41
85	A5	4100	C	O4'-C1'	6.47	1.51	1.41
85	A5	21	G	C2'-C1'	6.46	1.63	1.53
36	B2	337	C	O4'-C1'	6.46	1.51	1.41
36	B2	849	A	O4'-C1'	6.46	1.51	1.41
85	A5	332	C	C2'-C1'	-6.46	1.43	1.53
85	A5	1433	A	C2'-C1'	-6.46	1.43	1.53
85	A5	2307	A	C2'-C1'	-6.46	1.43	1.53
87	A8	44	A	C2'-C1'	-6.46	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2611	A	C2'-C1'	-6.46	1.43	1.53
36	B2	357	C	O4'-C1'	6.46	1.51	1.41
53	CT	98	HIS	C-N	6.46	1.42	1.33
85	A5	435	A	C2'-C1'	-6.46	1.43	1.53
36	B2	1191	C	O4'-C1'	6.46	1.51	1.41
85	A5	954	C	C2'-C1'	-6.46	1.43	1.53
27	AE	202	PRO	CA-C	-6.45	1.45	1.52
36	B2	1429	G	O3'-P	-6.45	1.51	1.61
36	B2	207	G	C2'-C1'	6.45	1.63	1.53
85	A5	2487	G	O4'-C1'	6.45	1.51	1.41
85	A5	2596	G	O4'-C1'	6.45	1.51	1.41
85	A5	4769	G	C2'-C1'	-6.45	1.43	1.53
36	B2	584	A	C2'-C1'	-6.45	1.43	1.53
85	A5	1446	C	O4'-C1'	6.45	1.51	1.41
85	A5	1510	G	O4'-C1'	6.45	1.51	1.41
85	A5	2774	C	O4'-C1'	6.45	1.51	1.41
33	AI	134	GLU	CA-CB	6.45	1.63	1.53
36	B2	1697	A	C2'-C1'	6.44	1.62	1.53
85	A5	2815	A	O4'-C1'	6.44	1.51	1.41
74	CC	35	ASP	N-CA	6.44	1.54	1.46
85	A5	5019	A	C2'-C1'	-6.44	1.43	1.53
61	Ch	38	GLY	CA-C	6.44	1.60	1.51
85	A5	3698	G	O4'-C1'	6.44	1.51	1.41
36	B2	1043	G	C2'-C1'	-6.44	1.43	1.53
36	B2	1292	C	C2'-C1'	-6.43	1.43	1.53
60	Cr	66	ARG	CA-CB	6.43	1.64	1.53
87	A8	66	A	C2'-C1'	-6.43	1.43	1.53
1	Az	4	PHE	CA-C	6.43	1.61	1.52
85	A5	229	G	O4'-C1'	6.43	1.51	1.41
85	A5	4230	C	O4'-C1'	6.43	1.51	1.41
86	A7	92	C	O4'-C1'	6.43	1.51	1.41
36	B2	741	C	C2'-C1'	-6.43	1.43	1.53
85	A5	1897	A	C2'-C1'	-6.43	1.43	1.53
74	CC	116	ASN	N-CA	6.43	1.54	1.46
85	A5	1785	C	C2'-C1'	-6.43	1.43	1.53
85	A5	2273	G	O4'-C1'	6.43	1.51	1.41
85	A5	4595	G	C2'-C1'	-6.43	1.43	1.53
43	CV	46	LYS	CA-C	6.42	1.61	1.52
54	CP	78	TRP	CA-C	-6.42	1.44	1.52
85	A5	4219	A	O4'-C1'	6.42	1.51	1.41
49	CQ	10	ASP	N-CA	-6.42	1.37	1.45
85	A5	1932	A	O4'-C1'	6.42	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	CB	111	SER	CA-C	-6.42	1.45	1.52
81	CE	59	ARG	C-N	6.42	1.42	1.33
85	A5	1075	G	O4'-C1'	-6.42	1.32	1.41
36	B2	666	U	O4'-C1'	6.42	1.51	1.41
85	A5	2290	C	C2'-C1'	-6.42	1.43	1.53
85	A5	2401	A	C2'-C1'	-6.42	1.43	1.53
87	A8	64	U	O4'-C1'	6.42	1.51	1.41
36	B2	876	C	O4'-C1'	6.42	1.51	1.41
85	A5	1837	A	O4'-C1'	6.42	1.51	1.41
36	B2	1180	C	C2'-C1'	-6.41	1.43	1.53
36	B2	1638	G	O4'-C1'	6.41	1.51	1.41
36	B2	1750	C	O4'-C1'	6.41	1.51	1.41
85	A5	4931	G	C2'-C1'	-6.41	1.43	1.53
34	AQ	18	THR	CA-CB	6.41	1.64	1.53
36	B2	72	C	C2'-C1'	6.41	1.62	1.53
36	B2	120	U	O4'-C1'	6.41	1.51	1.41
36	B2	442	C	C2'-C1'	-6.41	1.43	1.53
36	B2	993	G	C2'-C1'	-6.41	1.43	1.53
85	A5	4951	G	O4'-C1'	-6.41	1.32	1.41
85	A5	4423	U	C2'-C1'	6.41	1.62	1.53
36	B2	1142	G	O4'-C1'	-6.41	1.32	1.41
85	A5	1691	G	O4'-C1'	6.41	1.51	1.41
57	CY	50	ARG	CA-C	6.40	1.60	1.52
63	CB	293	ILE	N-CA	6.40	1.54	1.46
85	A5	4213	A	O4'-C1'	6.40	1.51	1.41
85	A5	482	G	C2'-C1'	-6.40	1.43	1.53
16	AA	193	HIS	N-CA	6.39	1.54	1.45
36	B2	863	U	O4'-C1'	6.39	1.51	1.41
36	B2	1089	G	C2'-C1'	-6.39	1.43	1.53
85	A5	1377	G	O4'-C1'	6.39	1.51	1.41
85	A5	2456	G	O4'-C1'	6.39	1.51	1.41
81	CE	218	LYS	C-N	6.39	1.42	1.33
85	A5	4638	U	O4'-C1'	6.39	1.51	1.41
85	A5	181	C	O4'-C1'	6.39	1.51	1.41
85	A5	258	G	C2'-C1'	-6.39	1.43	1.53
36	B2	802	A	O4'-C1'	6.39	1.51	1.41
36	B2	1711	U	C2'-C1'	-6.39	1.43	1.53
75	Cm	127	VAL	CA-CB	6.39	1.60	1.54
85	A5	1782	U	C2'-C1'	-6.39	1.43	1.53
85	A5	1194	G	C2'-C1'	-6.39	1.43	1.53
85	A5	1350	C	O4'-C1'	6.39	1.51	1.41
36	B2	226	A	O4'-C1'	6.39	1.51	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4200	G	C2'-C1'	-6.39	1.43	1.53
36	B2	438	G	O4'-C1'	-6.38	1.32	1.41
66	Cd	111	VAL	CA-C	-6.38	1.44	1.52
85	A5	221	C	O4'-C1'	6.38	1.51	1.41
85	A5	4277	G	O4'-C1'	6.38	1.51	1.41
85	A5	4478	G	C2'-C1'	-6.38	1.43	1.53
33	AI	134	GLU	N-CA	6.38	1.53	1.46
87	A8	104	A	C2'-C1'	-6.38	1.43	1.53
85	A5	1199	G	C2'-C1'	-6.38	1.43	1.53
85	A5	4648	A	C2'-C1'	-6.38	1.43	1.53
45	Ca	98	ALA	CA-C	-6.38	1.44	1.52
85	A5	2541	G	O4'-C1'	6.38	1.51	1.41
85	A5	2675	G	O4'-C1'	-6.38	1.32	1.42
36	B2	495	U	O4'-C1'	6.38	1.51	1.41
36	B2	1264	C	O4'-C1'	6.38	1.51	1.42
42	CL	57	PRO	N-CD	6.38	1.56	1.47
48	CD	66	TYR	CB-CG	-6.38	1.37	1.51
85	A5	4165	C	C2'-C1'	-6.38	1.43	1.53
85	A5	4714	C	C2'-C1'	-6.38	1.43	1.53
85	A5	4131	G	C2'-C1'	-6.38	1.43	1.53
85	A5	132	G	C2'-C1'	-6.37	1.43	1.53
36	B2	334	C	C2'-C1'	-6.37	1.43	1.53
52	CS	87	ARG	N-CA	-6.37	1.37	1.46
85	A5	1767	A	O4'-C1'	6.37	1.51	1.41
39	Cq	62	ARG	C-N	6.37	1.42	1.33
74	CC	155	GLU	CA-CB	6.37	1.62	1.53
85	A5	1597	G	O4'-C1'	-6.37	1.32	1.41
85	A5	4401	G	O4'-C1'	6.37	1.51	1.41
11	AL	20	LYS	CA-C	6.37	1.61	1.52
36	B2	817	G	C2'-C1'	-6.37	1.43	1.53
86	A7	110	G	C2'-C1'	-6.37	1.43	1.53
86	A7	112	U	C2'-C1'	6.37	1.62	1.53
85	A5	1616	U	O4'-C1'	6.36	1.51	1.41
85	A5	1747	U	O4'-C1'	6.36	1.51	1.41
86	A7	107	G	O4'-C1'	6.36	1.51	1.41
59	CZ	79	HIS	CA-CB	-6.36	1.43	1.53
85	A5	2565	A	O4'-C1'	6.36	1.51	1.41
85	A5	1199	G	O4'-C1'	6.36	1.51	1.41
85	A5	1254	A	O4'-C1'	6.36	1.51	1.41
85	A5	3871	A	C2'-C1'	-6.36	1.43	1.53
85	A5	473	C	O4'-C1'	6.36	1.51	1.41
17	AV	79	VAL	CA-CB	-6.36	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1828	C	C2'-C1'	-6.36	1.43	1.53
85	A5	3951	G	O4'-C1'	6.36	1.51	1.41
85	A5	4035	G	C2'-C1'	-6.36	1.43	1.53
3	AU	108	PRO	CA-C	-6.36	1.44	1.52
85	A5	4874	A	C2'-C1'	6.36	1.62	1.53
87	A8	153	C	C4'-C3'	6.36	1.62	1.52
11	AL	2	ALA	CA-C	-6.35	1.44	1.52
36	B2	642	U	O4'-C1'	6.35	1.51	1.41
85	A5	2578	G	C2'-C1'	-6.35	1.43	1.53
85	A5	751	G	C2'-C1'	-6.35	1.43	1.53
85	A5	4407	G	C2'-C1'	-6.35	1.43	1.53
1	Az	801	ARG	NE-CZ	6.35	1.40	1.33
36	B2	1757	G	C2'-C1'	-6.35	1.43	1.53
86	A7	58	A	C2'-C1'	-6.35	1.43	1.53
36	B2	1225	U	C2'-C1'	-6.34	1.43	1.53
59	CZ	135	ARG	CA-C	-6.34	1.45	1.52
36	B2	1497	G	O4'-C1'	6.34	1.51	1.42
81	CE	141	ARG	CA-C	6.34	1.61	1.52
36	B2	147	A	C2'-C1'	6.34	1.62	1.53
36	B2	301	A	C2'-C1'	6.34	1.62	1.53
40	CK	111	ASN	CA-C	-6.34	1.44	1.52
85	A5	461	G	C2'-C1'	-6.34	1.43	1.53
85	A5	1071	C	C2'-C1'	6.34	1.62	1.53
85	A5	3598	C	C2'-C1'	-6.34	1.43	1.53
85	A5	4192	A	C2'-C1'	-6.34	1.43	1.53
36	B2	1190	A	O4'-C1'	6.34	1.51	1.41
82	CG	33	GLU	CA-C	-6.34	1.44	1.52
2	Ag	277	THR	CA-C	-6.34	1.44	1.53
85	A5	751	G	O4'-C1'	6.33	1.51	1.41
85	A5	2435	G	O4'-C1'	6.33	1.51	1.41
85	A5	4610	A	O4'-C1'	6.33	1.51	1.41
85	A5	3660	C	O3'-P	-6.33	1.51	1.61
87	A8	122	G	C2'-C1'	-6.33	1.43	1.53
60	Cr	39	ARG	NE-CZ	6.33	1.40	1.33
6	AX	24	ASP	N-CA	-6.33	1.38	1.46
36	B2	524	U	O4'-C1'	6.33	1.51	1.41
85	A5	2509	C	O4'-C1'	6.33	1.51	1.41
27	AE	150	PRO	N-CD	6.32	1.56	1.47
37	BC	28	G	O4'-C1'	-6.32	1.32	1.41
85	A5	1264	C	C2'-C1'	-6.32	1.43	1.53
4	AK	84	HIS	CA-C	-6.32	1.45	1.52
17	AV	30	ALA	C-N	6.32	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	3895	G	C2'-C1'	-6.32	1.43	1.53
85	A5	2690	C	C2'-C1'	-6.31	1.43	1.53
36	B2	386	C	C2'-C1'	-6.31	1.43	1.53
85	A5	2010	A	O4'-C1'	6.31	1.51	1.41
1	Az	826	ASP	CA-C	-6.31	1.44	1.53
85	A5	3934	G	O4'-C1'	-6.31	1.32	1.41
36	B2	165	G	C2'-C1'	6.31	1.62	1.53
85	A5	4735	G	O4'-C1'	6.30	1.51	1.41
8	AS	39	ARG	C-N	6.30	1.41	1.33
82	CG	179	VAL	C-O	-6.30	1.16	1.24
86	A7	91	C	C2'-C1'	-6.30	1.43	1.53
85	A5	2663	G	O4'-C1'	-6.30	1.32	1.41
30	AF	81	ARG	C-N	-6.30	1.24	1.33
85	A5	1799	G	O4'-C1'	6.30	1.51	1.41
85	A5	2526	C	O4'-C1'	6.30	1.51	1.41
85	A5	2793	G	C2'-C1'	6.30	1.62	1.53
85	A5	4245	G	C2'-C1'	-6.30	1.44	1.53
85	A5	4762	A	C2'-C1'	6.30	1.62	1.53
36	B2	1222	G	C2'-C1'	-6.29	1.44	1.53
85	A5	2243	C	O4'-C1'	6.29	1.51	1.41
85	A5	4371	G	C2'-C1'	-6.29	1.43	1.53
36	B2	107	A	C2'-C1'	6.29	1.62	1.53
85	A5	942	G	O4'-C1'	6.29	1.51	1.41
85	A5	2303	C	O4'-C1'	6.29	1.51	1.41
36	B2	33	G	C2'-C1'	-6.29	1.44	1.53
85	A5	1527	A	O4'-C1'	6.29	1.51	1.41
36	B2	42	A	O4'-C1'	6.29	1.51	1.41
36	B2	844	U	O4'-C1'	6.29	1.51	1.41
85	A5	1392	A	C2'-C1'	-6.29	1.44	1.53
85	A5	4290	U	C2'-C1'	6.29	1.62	1.53
42	CL	11	LYS	N-CA	-6.29	1.37	1.46
55	CU	58	GLY	N-CA	-6.29	1.36	1.45
85	A5	3617	G	C2'-C1'	-6.29	1.44	1.53
85	A5	3862	A	C2'-C1'	-6.29	1.44	1.53
85	A5	1858	A	O4'-C1'	6.29	1.51	1.41
36	B2	53	C	C2'-C1'	6.28	1.62	1.53
4	AK	41	PRO	C-N	6.28	1.41	1.33
85	A5	2564	G	C2'-C1'	-6.28	1.44	1.53
85	A5	2720	C	O4'-C1'	6.28	1.51	1.41
85	A5	4364	G	O4'-C1'	6.28	1.51	1.41
85	A5	4861	G	C2'-C1'	-6.28	1.44	1.53
36	B2	1344	A	O4'-C1'	6.28	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2115	G	O4'-C1'	6.28	1.51	1.41
85	A5	4428	A	O4'-C1'	6.28	1.51	1.41
85	A5	5011	A	O4'-C1'	6.28	1.51	1.41
36	B2	1204	A	C2'-C1'	-6.28	1.44	1.53
85	A5	5030	U	O4'-C1'	6.28	1.51	1.41
81	CE	27	VAL	CA-C	-6.28	1.39	1.52
85	A5	4997	G	C2'-C1'	-6.28	1.44	1.53
58	CW	72	THR	C-N	6.27	1.42	1.33
60	Cr	30	ASN	CA-C	-6.27	1.44	1.52
85	A5	722	G	O4'-C1'	6.27	1.51	1.41
85	A5	2783	A	O4'-C1'	6.27	1.51	1.41
36	B2	371	A	O4'-C1'	6.27	1.51	1.41
36	B2	547	G	C2'-C1'	-6.27	1.44	1.53
85	A5	270	U	O4'-C1'	6.27	1.51	1.41
85	A5	3628	G	C2'-C1'	-6.27	1.44	1.53
85	A5	4564	A	O4'-C1'	6.27	1.51	1.41
36	B2	85	A	O4'-C1'	6.27	1.51	1.41
36	B2	86	C	O4'-C1'	6.27	1.51	1.41
85	A5	1890	G	O4'-C1'	-6.27	1.32	1.42
85	A5	3693	U	O4'-C1'	6.27	1.51	1.41
36	B2	1172	U	C2'-C1'	6.27	1.62	1.53
85	A5	2048	U	O4'-C1'	6.27	1.51	1.41
85	A5	2605	G	C2'-C1'	-6.27	1.44	1.53
13	AP	37	TYR	N-CA	-6.26	1.38	1.46
85	A5	451	C	O4'-C1'	6.26	1.51	1.41
85	A5	1772	C	O4'-C1'	6.26	1.51	1.41
85	A5	1777	C	C2'-C1'	-6.26	1.44	1.53
36	B2	287	U	O4'-C1'	6.26	1.51	1.42
36	B2	662	G	O4'-C1'	6.26	1.51	1.42
36	B2	1574	C	C2'-C1'	-6.26	1.44	1.53
85	A5	1202	C	O4'-C1'	6.26	1.51	1.41
85	A5	4332	C	C2'-C1'	-6.26	1.44	1.53
36	B2	586	G	O4'-C1'	6.26	1.51	1.41
14	AT	82	ARG	CD-NE	6.26	1.55	1.46
36	B2	687	C	C2'-C1'	-6.26	1.43	1.53
39	Cq	68	HIS	CA-C	-6.26	1.44	1.52
85	A5	4281	A	C2'-C1'	-6.26	1.43	1.53
36	B2	1155	U	O4'-C1'	6.25	1.51	1.42
85	A5	1514	U	O4'-C1'	6.25	1.51	1.41
85	A5	4058	U	O4'-C1'	6.25	1.51	1.41
85	A5	4875	G	C5'-C4'	6.25	1.60	1.51
85	A5	4379	A	C2'-C1'	-6.25	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	CQ	14	ARG	C-O	-6.25	1.16	1.23
85	A5	363	A	C2'-C1'	6.25	1.62	1.53
85	A5	2593	C	O4'-C1'	6.25	1.51	1.41
85	A5	1355	G	C2'-C1'	-6.25	1.44	1.53
85	A5	3674	G	O4'-C1'	6.25	1.51	1.41
85	A5	4237	C	O4'-C1'	6.25	1.51	1.41
36	B2	1409	A	O4'-C1'	6.24	1.51	1.41
85	A5	2845	A	C2'-C1'	-6.24	1.44	1.53
36	B2	1537	A	C2'-C1'	6.24	1.62	1.53
39	Cq	44	ARG	CA-C	-6.24	1.44	1.52
36	B2	811	A	C2'-C1'	-6.24	1.44	1.53
74	CC	46	LYS	C-N	-6.24	1.25	1.33
81	CE	37	PRO	C-N	6.24	1.42	1.33
85	A5	4249	G	C2'-C1'	-6.24	1.44	1.53
85	A5	3755	G	C2'-C1'	-6.24	1.44	1.53
85	A5	4933	C	O4'-C1'	6.24	1.51	1.41
36	B2	216	C	O4'-C1'	6.24	1.51	1.41
85	A5	5042	A	O4'-C1'	6.24	1.51	1.41
65	Cc	92	CYS	C-O	-6.23	1.16	1.24
14	AT	42	HIS	CB-CG	-6.23	1.41	1.50
85	A5	161	G	O4'-C1'	6.23	1.50	1.41
85	A5	4627	U	O4'-C1'	6.23	1.50	1.41
54	CP	108	ASP	CA-C	-6.23	1.45	1.52
85	A5	4594	U	O4'-C1'	6.23	1.50	1.41
62	Cb	30	GLU	CA-CB	-6.23	1.43	1.53
85	A5	3692	A	O4'-C1'	6.23	1.50	1.41
85	A5	298	G	O4'-C1'	6.23	1.50	1.41
85	A5	1733	G	O4'-C1'	-6.23	1.32	1.42
41	CO	186	GLU	CA-C	-6.23	1.45	1.52
28	AC	210	PRO	N-CD	6.22	1.56	1.47
36	B2	81	U	O4'-C1'	6.22	1.50	1.41
52	CS	152	PHE	CA-CB	6.22	1.63	1.53
85	A5	2028	C	O4'-C1'	6.22	1.50	1.41
85	A5	2361	G	C2'-C1'	-6.22	1.43	1.53
36	B2	312	G	C2'-C1'	6.22	1.62	1.53
74	CC	266	THR	C-N	6.22	1.42	1.33
85	A5	1237	C	O3'-P	-6.22	1.51	1.61
85	A5	2357	G	O4'-C1'	6.22	1.50	1.41
85	A5	2520	C	C2'-C1'	-6.22	1.44	1.53
85	A5	300	A	C2'-C1'	-6.22	1.44	1.53
36	B2	219	U	O4'-C1'	6.22	1.50	1.41
85	A5	2904	U	O4'-C1'	-6.22	1.32	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Ag	203	ASP	CA-C	6.22	1.61	1.52
85	A5	1408	G	O4'-C1'	6.22	1.50	1.41
36	B2	451	G	C2'-C1'	-6.21	1.44	1.53
85	A5	1048	G	C2'-C1'	-6.21	1.44	1.53
85	A5	2732	G	C2'-C1'	-6.21	1.44	1.53
85	A5	4987	C	C2'-C1'	-6.21	1.44	1.53
10	AN	142	GLU	C-O	-6.21	1.16	1.24
36	B2	1142	G	C2'-C1'	6.21	1.62	1.53
74	CC	85	HIS	N-CA	-6.21	1.37	1.46
85	A5	1940	G	C2'-C1'	-6.21	1.44	1.53
85	A5	2622	G	O4'-C1'	6.21	1.50	1.41
36	B2	698	G	C2'-C1'	-6.21	1.43	1.53
85	A5	1331	C	C2'-C1'	-6.21	1.44	1.53
36	B2	503	C	O4'-C1'	6.21	1.51	1.42
36	B2	531	A	O3'-P	-6.21	1.51	1.61
36	B2	1367	U	O4'-C1'	6.21	1.50	1.41
85	A5	411	G	O4'-C1'	6.21	1.51	1.42
1	Az	745	TYR	CA-C	6.21	1.60	1.52
28	AC	61	MET	CA-C	-6.21	1.47	1.52
36	B2	1229	G	C2'-C1'	-6.21	1.44	1.53
66	Cd	113	THR	CA-C	-6.21	1.44	1.52
85	A5	4469	U	O4'-C1'	6.21	1.50	1.41
8	AS	91	LYS	C-N	6.20	1.42	1.33
36	B2	371	A	C2'-C1'	-6.20	1.44	1.53
85	A5	382	G	O4'-C1'	6.20	1.50	1.41
85	A5	3806	G	C2'-C1'	-6.20	1.44	1.53
85	A5	4993	G	O4'-C1'	-6.20	1.32	1.41
85	A5	5046	U	O4'-C1'	6.20	1.50	1.41
1	Az	855	LEU	CA-C	6.20	1.60	1.52
84	Cu	45	GLU	CA-C	-6.20	1.45	1.52
85	A5	1285	U	O4'-C1'	6.20	1.50	1.41
85	A5	1490	G	O4'-C1'	6.20	1.50	1.41
85	A5	4319	C	C2'-C1'	-6.20	1.44	1.53
85	A5	467	U	O4'-C1'	6.20	1.50	1.41
85	A5	4177	C	O4'-C1'	6.20	1.50	1.41
85	A5	5058	A	C2'-C1'	6.20	1.62	1.53
36	B2	1063	C	O4'-C1'	6.19	1.50	1.41
36	B2	1072	U	C2'-C1'	6.19	1.62	1.53
49	CQ	19	LYS	C-O	-6.19	1.16	1.24
85	A5	4382	G	C2'-C1'	-6.19	1.44	1.53
20	Aa	85	ARG	CA-C	6.19	1.59	1.52
36	B2	147	A	O4'-C1'	-6.19	1.32	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
66	Cd	111	VAL	CA-CB	-6.19	1.46	1.54
85	A5	3854	C	O4'-C1'	6.19	1.50	1.41
36	B2	670	A	O4'-C1'	-6.19	1.32	1.41
36	B2	1308	U	C2'-C1'	6.19	1.62	1.53
63	CB	361	GLU	CA-C	6.19	1.61	1.52
42	CL	166	ALA	C-N	-6.19	1.25	1.33
85	A5	4467	A	O4'-C1'	6.18	1.50	1.41
85	A5	32	G	C2'-C1'	-6.18	1.44	1.53
85	A5	1165	G	O4'-C1'	6.18	1.50	1.41
85	A5	4586	G	O4'-C1'	6.18	1.50	1.41
58	CW	83	THR	CA-C	-6.18	1.44	1.52
60	Cr	43	LEU	CG-CD1	-6.18	1.32	1.52
85	A5	1937	C	C2'-C1'	-6.18	1.44	1.53
85	A5	2909	C	O4'-C1'	6.18	1.50	1.41
85	A5	687	U	O4'-C1'	-6.17	1.32	1.41
85	A5	3664	G	C2'-C1'	-6.17	1.44	1.53
87	A8	132	G	C2'-C1'	-6.17	1.44	1.53
85	A5	2275	G	C2'-C1'	-6.17	1.44	1.53
36	B2	1499	U	C2'-C1'	-6.17	1.44	1.53
85	A5	4387	C	C2'-C1'	-6.17	1.44	1.53
85	A5	4236	G	C2'-C1'	-6.17	1.44	1.53
85	A5	1650	A	O4'-C1'	6.17	1.51	1.42
85	A5	3896	C	C2'-C1'	-6.17	1.44	1.53
86	A7	63	C	C2'-C1'	-6.17	1.44	1.53
36	B2	959	G	C2'-C1'	-6.17	1.44	1.53
1	Az	263	ASP	C-N	-6.16	1.25	1.33
36	B2	860	G	O4'-C1'	6.16	1.50	1.41
38	Cz	207	LYS	CA-C	-6.16	1.45	1.52
74	CC	346	ASN	N-CA	-6.16	1.38	1.46
36	B2	1259	A	O4'-C1'	-6.16	1.32	1.41
81	CE	101	ASN	CA-CB	6.16	1.63	1.53
85	A5	2310	C	O4'-C1'	6.16	1.50	1.41
36	B2	994	C	C2'-C1'	-6.16	1.44	1.53
85	A5	4720	C	C2'-C1'	-6.16	1.43	1.53
36	B2	1722	G	O4'-C1'	6.16	1.50	1.41
53	CT	142	ARG	C-O	-6.16	1.17	1.23
85	A5	2274	C	O4'-C1'	6.16	1.50	1.41
85	A5	2658	G	O4'-C1'	6.16	1.51	1.42
85	A5	3707	U	O4'-C1'	6.16	1.50	1.41
36	B2	1863	A	C2'-C1'	6.15	1.62	1.53
85	A5	3757	G	C2'-C1'	-6.15	1.44	1.53
36	B2	1755	C	O4'-C1'	6.15	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	Ce	125	PRO	N-CD	6.15	1.56	1.47
73	Cl	36	ARG	CA-C	-6.15	1.45	1.53
85	A5	747	A	C2'-C1'	-6.15	1.44	1.53
85	A5	1888	A	O4'-C1'	6.15	1.50	1.41
85	A5	2754	G	P-O5'	-6.15	1.50	1.59
85	A5	2831	G	C2'-C1'	-6.15	1.44	1.53
85	A5	4271	A	O4'-C1'	6.15	1.50	1.41
36	B2	1079	C	C2'-C1'	-6.15	1.44	1.53
36	B2	1153	C	O4'-C1'	-6.15	1.32	1.42
71	Cj	87	LYS	C-O	-6.15	1.16	1.24
85	A5	2112	G	O4'-C1'	-6.15	1.32	1.41
85	A5	2632	U	O4'-C1'	6.15	1.50	1.41
16	AA	193	HIS	CA-C	6.15	1.60	1.53
36	B2	1704	C	C2'-C1'	-6.14	1.44	1.53
85	A5	255	C	O4'-C1'	6.14	1.50	1.41
85	A5	2306	G	C2'-C1'	-6.14	1.43	1.53
85	A5	4895	C	C2'-C1'	6.14	1.62	1.53
36	B2	1846	G	C2'-C1'	-6.14	1.44	1.53
85	A5	53	C	O4'-C1'	6.14	1.50	1.41
3	AU	104	ILE	CA-CB	6.14	1.62	1.54
29	AG	128	THR	CA-C	6.14	1.60	1.52
85	A5	2107	C	O3'-P	-6.14	1.51	1.61
68	Cf	99	HIS	C-N	6.13	1.42	1.33
73	Cl	37	TYR	CB-CG	-6.13	1.38	1.51
85	A5	4079	C	O4'-C1'	6.13	1.50	1.41
57	CY	9	SER	C-N	6.13	1.42	1.33
85	A5	2598	A	C2'-C1'	-6.13	1.44	1.53
36	B2	1106	C	C2'-C1'	6.13	1.62	1.53
85	A5	2012	A	O4'-C1'	6.12	1.50	1.41
85	A5	4038	C	C2'-C1'	-6.12	1.44	1.53
36	B2	370	G	O4'-C1'	6.12	1.51	1.42
74	CC	13	GLU	CA-C	6.12	1.60	1.52
85	A5	4320	G	C2'-C1'	-6.12	1.44	1.53
85	A5	1901	C	C2'-C1'	-6.12	1.44	1.53
85	A5	2624	G	C2'-C1'	-6.12	1.44	1.53
85	A5	2858	A	C2'-C1'	-6.12	1.44	1.53
5	AO	43	HIS	CA-C	6.12	1.60	1.52
85	A5	1351	G	C2'-C1'	-6.12	1.44	1.53
85	A5	3821	A	O4'-C1'	-6.12	1.32	1.41
85	A5	1470	G	O4'-C1'	6.12	1.50	1.41
36	B2	364	A	C2'-C1'	-6.11	1.44	1.53
85	A5	128	C	C2'-C1'	-6.11	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	74	G	O4'-C1'	6.11	1.50	1.41
39	Cq	162	LYS	CA-C	-6.11	1.45	1.52
36	B2	880	G	O4'-C1'	-6.11	1.32	1.41
36	B2	1299	A	C2'-C1'	6.11	1.62	1.53
36	B2	1405	A	C2'-C1'	-6.11	1.44	1.53
85	A5	2273	G	C2'-C1'	-6.11	1.44	1.53
85	A5	4758	U	O4'-C1'	-6.11	1.32	1.41
36	B2	18	C	C2'-C1'	-6.11	1.44	1.53
36	B2	1524	G	O4'-C1'	-6.11	1.32	1.41
85	A5	1736	A	O4'-C1'	6.11	1.50	1.41
11	AL	18	GLN	N-CA	-6.10	1.38	1.46
36	B2	1588	A	O4'-C1'	6.10	1.50	1.41
85	A5	1201	U	O4'-C1'	6.10	1.50	1.41
85	A5	2633	U	O4'-C1'	6.10	1.50	1.41
1	Az	846	GLU	C-O	-6.10	1.17	1.24
36	B2	1023	A	C2'-C1'	6.10	1.62	1.53
85	A5	733	A	C2'-C1'	-6.10	1.44	1.53
36	B2	40	A	C2'-C1'	6.10	1.62	1.53
85	A5	1671	U	C2'-C1'	-6.10	1.44	1.53
39	Cq	149	ARG	N-CA	-6.10	1.38	1.46
7	AM	99	ASN	CA-C	6.09	1.57	1.53
15	AB	155	TYR	CB-CG	-6.09	1.38	1.51
85	A5	1767	A	C2'-C1'	-6.09	1.44	1.53
85	A5	1941	A	O4'-C1'	6.09	1.50	1.41
85	A5	2845	A	O4'-C1'	6.09	1.50	1.41
85	A5	3928	A	O4'-C1'	6.09	1.50	1.41
85	A5	4044	U	C2'-C1'	6.09	1.62	1.53
87	A8	12	G	O4'-C1'	6.09	1.50	1.41
85	A5	2782	U	C2'-C1'	6.09	1.62	1.53
36	B2	1271	C	C2'-C1'	-6.09	1.44	1.53
85	A5	1070	G	O4'-C1'	6.09	1.50	1.41
85	A5	1911	C	C2'-C1'	-6.09	1.44	1.53
85	A5	2501	C	C2'-C1'	-6.09	1.44	1.53
36	B2	475	C	C2'-C1'	-6.09	1.44	1.53
36	B2	168	C	C2'-C1'	-6.09	1.44	1.53
36	B2	1335	G	C2'-C1'	-6.09	1.44	1.53
85	A5	731	G	C2'-C1'	-6.09	1.44	1.53
39	Cq	262	ALA	C-N	-6.08	1.25	1.33
60	Cr	96	MET	CA-C	-6.08	1.44	1.52
8	AS	91	LYS	N-CA	-6.08	1.39	1.46
36	B2	1339	U	P-O5'	-6.08	1.50	1.59
58	CW	83	THR	N-CA	6.08	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	635	G	C2'-C1'	-6.08	1.44	1.53
36	B2	1254	C	O4'-C1'	6.08	1.50	1.41
86	A7	6	C	O3'-P	-6.08	1.52	1.61
36	B2	787	G	O4'-C1'	6.08	1.50	1.41
68	Cf	3	GLY	C-N	6.08	1.42	1.33
85	A5	1907	A	O3'-P	-6.08	1.52	1.61
85	A5	4647	G	O4'-C1'	6.08	1.50	1.41
28	AC	272	HIS	N-CA	-6.08	1.39	1.46
85	A5	1559	G	C2'-C1'	-6.08	1.44	1.53
36	B2	907	G	O4'-C1'	6.07	1.50	1.41
85	A5	1303	A	C5'-C4'	6.07	1.60	1.51
85	A5	2737	C	C2'-C1'	-6.07	1.44	1.53
36	B2	945	U	C2'-C1'	-6.07	1.44	1.53
85	A5	187	U	O4'-C1'	6.07	1.50	1.41
44	CM	2	VAL	C-N	6.07	1.42	1.33
85	A5	683	C	C5'-C4'	6.07	1.60	1.51
85	A5	1831	G	C2'-C1'	-6.07	1.44	1.53
53	CT	24	VAL	N-CA	-6.07	1.38	1.46
85	A5	692	A	C2'-C1'	6.07	1.62	1.53
85	A5	93	G	O4'-C1'	6.07	1.50	1.41
85	A5	908	G	C2'-C1'	-6.06	1.44	1.53
12	AR	3	ARG	CA-C	-6.06	1.44	1.53
36	B2	628	A	C2'-C1'	6.06	1.62	1.53
85	A5	5051	C	C2'-C1'	-6.06	1.44	1.53
81	CE	39	LYS	N-CA	6.06	1.54	1.46
86	A7	76	U	O4'-C1'	6.06	1.50	1.41
36	B2	828	G	C2'-C1'	-6.06	1.44	1.53
68	Cf	59	THR	CA-C	-6.06	1.45	1.52
60	Cr	80	THR	N-CA	-6.06	1.38	1.46
85	A5	2093	A	O4'-C1'	-6.06	1.32	1.42
85	A5	2597	G	O4'-C1'	6.06	1.50	1.41
85	A5	4723	A	O4'-C1'	6.06	1.50	1.41
40	CK	29	ALA	N-CA	-6.06	1.41	1.46
85	A5	4036	G	O4'-C1'	6.05	1.50	1.41
85	A5	4077	A	O4'-C1'	6.05	1.50	1.41
87	A8	40	A	C2'-C1'	-6.05	1.44	1.53
52	CS	17	LEU	C-O	-6.05	1.16	1.24
69	Cg	77	ALA	CA-CB	-6.05	1.43	1.53
85	A5	1330	A	O4'-C1'	6.05	1.50	1.41
85	A5	2900	U	C2'-C1'	-6.05	1.44	1.53
50	CR	143	HIS	CE1-NE2	-6.05	1.26	1.32
85	A5	3622	C	C2'-C1'	-6.05	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4075	U	C2'-C1'	6.05	1.62	1.53
85	A5	4433	G	C2'-C1'	-6.05	1.44	1.53
37	BC	51	G	C2'-C1'	-6.05	1.44	1.53
85	A5	1652	U	C2'-C1'	-6.05	1.44	1.53
85	A5	4101	C	C2'-C1'	-6.05	1.44	1.53
70	Ci	9	VAL	CA-CB	6.04	1.62	1.54
85	A5	2632	U	C2'-C1'	-6.04	1.44	1.53
85	A5	1188	C	C2'-C1'	-6.04	1.44	1.53
68	Cf	80	ASN	N-CA	-6.04	1.38	1.46
81	CE	37	PRO	CA-C	6.04	1.65	1.52
85	A5	1069	G	O4'-C1'	6.04	1.50	1.41
85	A5	2255	C	C2'-C1'	-6.04	1.44	1.53
85	A5	2548	C	O4'-C1'	6.04	1.50	1.41
85	A5	4137	C	C2'-C1'	-6.04	1.44	1.53
87	A8	139	G	C2'-C1'	-6.04	1.44	1.53
85	A5	3961	G	O4'-C1'	6.04	1.50	1.41
87	A8	108	A	C2'-C1'	6.04	1.62	1.53
85	A5	752	G	C2'-C1'	-6.04	1.44	1.53
36	B2	987	A	O4'-C1'	6.03	1.50	1.41
36	B2	1005	G	C2'-C1'	-6.03	1.44	1.53
52	CS	150	ILE	CA-C	6.03	1.60	1.52
85	A5	1263	A	O4'-C1'	6.03	1.50	1.41
85	A5	3694	U	C2'-C1'	-6.03	1.44	1.53
85	A5	726	G	O4'-C1'	6.03	1.50	1.41
85	A5	1609	U	C2'-C1'	-6.03	1.44	1.53
85	A5	2072	C	C2'-C1'	-6.03	1.44	1.53
36	B2	740	C	C2'-C1'	-6.03	1.44	1.53
36	B2	815	U	O4'-C1'	6.03	1.50	1.41
85	A5	217	C	O4'-C1'	6.03	1.50	1.41
85	A5	4263	C	O4'-C1'	6.03	1.50	1.41
87	A8	147	G	C2'-C1'	-6.03	1.44	1.53
85	A5	4212	A	O4'-C1'	6.03	1.50	1.42
36	B2	1677	U	C2'-C1'	6.03	1.62	1.53
39	Cq	6	ARG	CA-C	6.03	1.60	1.52
85	A5	4890	G	O4'-C1'	6.03	1.50	1.41
85	A5	2055	G	C5'-C4'	6.02	1.60	1.51
85	A5	4082	G	O4'-C1'	6.02	1.50	1.41
74	CC	22	VAL	N-CA	-6.02	1.37	1.46
85	A5	2491	C	O4'-C1'	6.02	1.50	1.41
85	A5	4353	U	C2'-C1'	6.02	1.62	1.53
85	A5	4894	A	O4'-C1'	-6.02	1.32	1.41
36	B2	903	A	O4'-C1'	-6.02	1.32	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1043	G	O4'-C1'	6.02	1.50	1.41
85	A5	455	C	O4'-C1'	6.02	1.50	1.41
85	A5	2081	C	C2'-C1'	-6.02	1.44	1.53
85	A5	4040	C	O4'-C1'	6.02	1.50	1.41
17	AV	42	VAL	CA-CB	-6.02	1.46	1.54
36	B2	188	C	C2'-C1'	-6.02	1.44	1.53
85	A5	1443	A	C2'-C1'	-6.02	1.44	1.53
85	A5	3741	C	C2'-C1'	-6.02	1.44	1.53
85	A5	4144	C	C2'-C1'	6.02	1.62	1.53
37	BC	15	G	C2'-C1'	6.02	1.62	1.53
85	A5	1736	A	C2'-C1'	-6.02	1.44	1.53
85	A5	5012	G	C2'-C1'	6.02	1.62	1.53
85	A5	165	A	C2'-C1'	-6.01	1.44	1.53
85	A5	3829	G	O4'-C1'	6.01	1.50	1.41
36	B2	118	C	O4'-C1'	6.01	1.50	1.41
85	A5	5	A	C2'-C1'	-6.01	1.44	1.53
85	A5	190	G	C2'-C1'	-6.01	1.44	1.53
85	A5	1894	C	C2'-C1'	-6.01	1.44	1.53
12	AR	111	PHE	CA-C	6.01	1.59	1.52
36	B2	214	U	O3'-P	-6.01	1.52	1.61
36	B2	472	C	C2'-C1'	-6.01	1.44	1.53
36	B2	686	U	C2'-C1'	6.01	1.62	1.53
81	CE	110	ARG	N-CA	-6.01	1.38	1.46
85	A5	2044	U	C5'-C4'	6.01	1.60	1.51
85	A5	4945	G	O4'-C1'	6.01	1.50	1.41
36	B2	1626	C	O4'-C1'	6.01	1.50	1.41
85	A5	743	G	C2'-C1'	-6.01	1.44	1.53
1	Az	199	PRO	CA-C	6.01	1.58	1.52
85	A5	2403	A	O4'-C1'	6.01	1.50	1.41
67	Ce	16	ARG	C-N	6.01	1.42	1.33
85	A5	1639	U	C2'-C1'	-6.01	1.44	1.53
85	A5	2078	C	C2'-C1'	-6.01	1.44	1.53
31	AH	16	PRO	CA-C	-6.00	1.43	1.52
40	CK	86	LYS	N-CA	-6.00	1.38	1.46
82	CG	184	ILE	CA-CB	-6.00	1.46	1.54
85	A5	1449	C	O4'-C1'	6.00	1.50	1.41
85	A5	2271	C	C2'-C1'	-6.00	1.44	1.53
36	B2	26	U	C2'-C1'	-6.00	1.44	1.53
57	CY	83	GLU	CA-C	-6.00	1.45	1.52
81	CE	128	HIS	ND1-CE1	6.00	1.38	1.32
85	A5	1815	G	C2'-C1'	-6.00	1.44	1.53
64	CF	99	ASN	CA-C	6.00	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1281	G	C2'-C1'	-6.00	1.44	1.53
36	B2	280	G	O3'-P	-6.00	1.52	1.61
36	B2	324	C	O4'-C1'	-6.00	1.32	1.41
1	Az	43	ALA	N-CA	-6.00	1.38	1.46
85	A5	48	G	O4'-C1'	6.00	1.50	1.41
36	B2	791	C	O3'-P	-5.99	1.52	1.61
86	A7	25	G	O4'-C1'	5.99	1.50	1.41
36	B2	1675	A	O4'-C1'	-5.99	1.32	1.41
68	Cf	106	TYR	CA-CB	-5.99	1.46	1.54
33	AI	8	TRP	CD2-CE3	-5.99	1.30	1.40
36	B2	1451	G	C2'-C1'	-5.99	1.44	1.53
85	A5	2082	G	C2'-C1'	-5.99	1.44	1.53
85	A5	4501	U	O4'-C1'	5.99	1.50	1.41
85	A5	4622	A	C2'-C1'	5.99	1.62	1.53
87	A8	45	C	C2'-C1'	-5.99	1.44	1.53
36	B2	323	C	C2'-C1'	-5.99	1.44	1.53
36	B2	827	A	O4'-C1'	5.99	1.50	1.41
85	A5	1847	C	C2'-C1'	-5.99	1.44	1.53
33	AI	184	ARG	CD-NE	5.99	1.54	1.46
36	B2	1399	C	O4'-C1'	5.99	1.50	1.41
53	CT	5	LYS	CA-C	5.99	1.60	1.52
81	CE	40	GLY	CA-C	5.99	1.56	1.52
87	A8	105	C	C2'-C1'	-5.99	1.44	1.53
85	A5	1411	C	C2'-C1'	-5.98	1.44	1.53
85	A5	1608	G	C2'-C1'	-5.98	1.44	1.53
74	CC	308	LYS	C-N	5.98	1.41	1.33
85	A5	2071	A	O4'-C1'	5.98	1.50	1.41
2	Ag	284	PRO	CA-C	-5.98	1.46	1.53
85	A5	2503	G	C2'-C1'	-5.98	1.44	1.53
85	A5	4493	U	O4'-C1'	5.98	1.50	1.41
85	A5	738	C	O4'-C1'	5.97	1.50	1.41
85	A5	2661	U	O4'-C1'	5.97	1.50	1.42
31	AH	106	ARG	CA-C	-5.97	1.44	1.52
37	BC	20	A	C2'-C1'	5.97	1.62	1.53
85	A5	1217	G	C2'-C1'	5.97	1.62	1.53
85	A5	1821	G	C2'-C1'	5.97	1.62	1.53
85	A5	4957	C	O4'-C1'	5.97	1.50	1.41
5	AO	129	ILE	CA-C	-5.97	1.45	1.52
36	B2	1296	U	C2'-C1'	-5.97	1.44	1.53
69	Cg	40	LYS	CA-C	-5.97	1.45	1.52
85	A5	1336	G	O4'-C1'	5.97	1.50	1.41
85	A5	4759	C	O4'-C1'	5.97	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1418	C	O4'-C1'	-5.97	1.33	1.42
43	CV	78	PRO	N-CD	5.96	1.56	1.47
8	AS	50	ILE	N-CA	5.96	1.53	1.46
36	B2	1491	G	C2'-C1'	-5.96	1.44	1.53
42	CL	130	LYS	CB-CG	5.96	1.70	1.52
85	A5	4915	G	O4'-C1'	5.96	1.50	1.41
36	B2	104	A	O4'-C1'	5.96	1.50	1.41
36	B2	611	G	O4'-C1'	5.96	1.50	1.41
85	A5	1785	C	O4'-C1'	5.96	1.50	1.41
85	A5	5055	G	C2'-C1'	-5.96	1.44	1.53
36	B2	148	U	C2'-C1'	5.96	1.62	1.53
37	BC	29	G	O4'-C1'	5.95	1.50	1.41
66	Cd	96	GLU	CA-C	-5.95	1.44	1.52
85	A5	1339	U	O4'-C1'	5.95	1.50	1.41
68	Cf	54	LYS	N-CA	-5.95	1.38	1.46
86	A7	18	C	O4'-C1'	5.95	1.50	1.41
87	A8	133	G	C2'-C1'	-5.95	1.44	1.53
85	A5	1961	G	C2'-C1'	5.95	1.61	1.53
36	B2	922	A	C2'-C1'	5.95	1.62	1.53
85	A5	2549	G	O4'-C1'	5.94	1.50	1.41
54	CP	5	SER	N-CA	-5.94	1.38	1.46
36	B2	1050	A	C2'-C1'	-5.94	1.44	1.53
36	B2	1456	G	O4'-C1'	5.94	1.50	1.41
36	B2	1657	G	C2'-C1'	-5.94	1.44	1.53
85	A5	4198	G	C2'-C1'	-5.93	1.44	1.53
63	CB	32	PHE	CA-CB	-5.93	1.45	1.54
85	A5	514	U	O4'-C1'	5.93	1.50	1.41
86	A7	22	A	C2'-C1'	-5.93	1.44	1.53
1	Az	849	PRO	CA-CB	-5.93	1.45	1.53
20	Aa	60	ASP	CA-C	5.93	1.60	1.53
44	CM	3	PHE	CA-C	-5.93	1.44	1.52
85	A5	3937	C	C2'-C1'	-5.93	1.44	1.53
36	B2	638	C	O4'-C1'	5.93	1.50	1.41
85	A5	2726	G	C2'-C1'	-5.93	1.44	1.53
36	B2	671	A	C2'-C1'	-5.93	1.44	1.53
78	Co	73	VAL	CA-CB	-5.93	1.46	1.54
36	B2	171	A	C2'-C1'	5.92	1.61	1.53
35	Ah	144	GLU	CA-C	-5.92	1.44	1.52
52	CS	150	ILE	N-CA	5.92	1.53	1.46
82	CG	163	PRO	N-CD	5.92	1.56	1.47
85	A5	68	U	C2'-C1'	-5.92	1.44	1.53
85	A5	4654	C	C2'-C1'	-5.92	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	228	C	O3'-P	-5.92	1.52	1.61
36	B2	37	C	C2'-C1'	-5.92	1.44	1.53
36	B2	152	U	C2'-C1'	-5.92	1.44	1.53
38	Cz	35	GLN	CA-C	-5.92	1.45	1.52
36	B2	196	C	C2'-C1'	-5.91	1.44	1.53
85	A5	310	G	C2'-C1'	-5.91	1.44	1.53
85	A5	937	U	O4'-C1'	5.91	1.50	1.42
85	A5	1239	C	O4'-C1'	5.91	1.50	1.42
85	A5	3742	G	C2'-C1'	-5.91	1.44	1.53
85	A5	160	G	O4'-C1'	5.91	1.50	1.41
12	AR	86	PRO	N-CD	5.91	1.56	1.47
85	A5	186	G	O4'-C1'	5.91	1.50	1.42
85	A5	2598	A	O4'-C1'	5.91	1.50	1.41
37	BC	43	A	C2'-C1'	-5.91	1.44	1.53
40	CK	104	ILE	CA-CB	-5.91	1.46	1.54
85	A5	662	C	C2'-C1'	-5.91	1.44	1.53
36	B2	1055	A	O4'-C1'	5.91	1.50	1.41
85	A5	1759	G	O4'-C1'	5.91	1.50	1.41
36	B2	1790	A	O4'-C1'	5.91	1.50	1.41
81	CE	278	THR	C-O	-5.91	1.16	1.24
85	A5	4295	U	C2'-C1'	5.91	1.62	1.53
2	Ag	213	ASP	CA-C	-5.90	1.45	1.52
36	B2	1450	G	C2'-C1'	-5.90	1.44	1.53
37	BC	43	A	O4'-C1'	5.90	1.50	1.41
85	A5	2409	U	C2'-C1'	-5.90	1.44	1.53
85	A5	3806	G	O4'-C1'	5.90	1.50	1.41
36	B2	1395	C	O4'-C1'	5.90	1.50	1.41
36	B2	1418	C	C2'-C1'	-5.90	1.44	1.53
85	A5	4585	U	C2'-C1'	-5.90	1.44	1.53
64	CF	28	LEU	CA-C	-5.90	1.45	1.52
1	Az	113	SER	CA-C	-5.89	1.44	1.52
36	B2	57	U	C2'-C1'	5.89	1.62	1.53
36	B2	466	G	C4'-C3'	5.89	1.61	1.52
55	CU	60	VAL	CA-CB	5.89	1.62	1.54
36	B2	1063	C	C2'-C1'	-5.89	1.44	1.53
85	A5	201	C	C2'-C1'	-5.89	1.44	1.53
85	A5	1865	G	P-O5'	-5.89	1.50	1.59
85	A5	4326	G	C2'-C1'	-5.89	1.44	1.53
85	A5	4503	A	O4'-C1'	5.89	1.50	1.41
36	B2	1788	A	O4'-C1'	5.89	1.50	1.41
85	A5	985	C	C2'-C1'	-5.89	1.44	1.53
85	A5	2800	G	O4'-C1'	5.89	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	928	G	C2'-C1'	-5.89	1.44	1.53
36	B2	1842	C	O4'-C1'	5.89	1.50	1.41
85	A5	3612	C	O4'-C1'	5.89	1.50	1.41
85	A5	4432	C	C2'-C1'	-5.89	1.44	1.53
67	Ce	16	ARG	CA-CB	-5.88	1.44	1.53
85	A5	103	G	C2'-C1'	-5.88	1.44	1.53
8	AS	6	PRO	N-CA	5.88	1.55	1.47
36	B2	190	G	C2'-C1'	-5.88	1.44	1.53
36	B2	747	U	O3'-P	-5.88	1.52	1.61
36	B2	1035	A	O4'-C1'	5.88	1.50	1.41
85	A5	103	G	O4'-C1'	5.88	1.50	1.41
36	B2	945	U	O4'-C1'	5.88	1.50	1.41
36	B2	947	G	C2'-C1'	-5.88	1.44	1.53
36	B2	1563	G	C2'-C1'	-5.88	1.44	1.53
36	B2	1712	A	O4'-C1'	5.88	1.50	1.41
36	B2	957	A	C2'-C1'	-5.88	1.44	1.53
36	B2	1484	A	C2'-C1'	-5.88	1.44	1.53
81	CE	224	LYS	CA-C	5.88	1.60	1.52
36	B2	480	G	O4'-C1'	5.88	1.50	1.41
78	Co	73	VAL	CA-C	-5.88	1.45	1.52
81	CE	234	ASP	N-CA	5.88	1.53	1.46
85	A5	2038	U	O4'-C1'	5.88	1.50	1.41
85	A5	2901	G	C2'-C1'	-5.88	1.44	1.53
36	B2	1738	C	C2'-C1'	-5.88	1.44	1.53
36	B2	348	A	C2'-C1'	-5.87	1.44	1.53
85	A5	40	G	O4'-C1'	5.87	1.50	1.41
85	A5	965	G	O4'-C1'	5.87	1.50	1.42
85	A5	4482	U	C2'-C1'	-5.87	1.44	1.53
87	A8	50	C	O4'-C1'	5.87	1.50	1.41
15	AB	77	ASP	N-CA	5.87	1.53	1.46
36	B2	86	C	C2'-C1'	-5.87	1.44	1.53
36	B2	617	G	C2'-C1'	-5.87	1.44	1.53
85	A5	1604	G	C2'-C1'	-5.87	1.44	1.53
85	A5	2533	C	O4'-C1'	5.87	1.50	1.41
85	A5	3817	A	O4'-C1'	5.87	1.50	1.42
81	CE	106	VAL	CA-CB	5.87	1.62	1.54
85	A5	1088	C	O4'-C1'	5.87	1.50	1.41
36	B2	1806	A	C2'-C1'	-5.87	1.44	1.53
85	A5	2094	G	O4'-C1'	5.87	1.50	1.41
29	AG	169	PRO	C-N	5.87	1.41	1.33
85	A5	1347	G	O4'-C1'	-5.87	1.32	1.41
85	A5	2802	C	O4'-C1'	5.87	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4960	G	C2'-C1'	-5.87	1.44	1.53
36	B2	1065	G	C2'-C1'	-5.86	1.44	1.53
37	BC	63	U	O4'-C1'	5.86	1.50	1.41
85	A5	645	G	C2'-C1'	-5.86	1.44	1.53
85	A5	1877	G	O4'-C1'	5.86	1.50	1.41
74	CC	117	THR	CA-C	-5.86	1.45	1.52
36	B2	1530	U	O4'-C1'	5.86	1.50	1.41
85	A5	111	C	C2'-C1'	5.86	1.61	1.53
85	A5	1740	C	O4'-C1'	5.86	1.50	1.42
85	A5	2728	U	O4'-C1'	5.86	1.50	1.41
36	B2	836	G	C2'-C1'	5.86	1.62	1.53
36	B2	900	C	O4'-C1'	5.86	1.50	1.41
85	A5	3660	C	C2'-C1'	-5.86	1.44	1.53
36	B2	1540	G	C2'-C1'	-5.86	1.44	1.53
82	CG	49	ARG	CA-C	5.86	1.60	1.52
85	A5	990	C	O4'-C1'	5.86	1.50	1.41
85	A5	2689	C	C2'-C1'	-5.86	1.44	1.53
85	A5	3712	A	C2'-C1'	5.86	1.61	1.53
85	A5	2579	G	O4'-C1'	-5.85	1.32	1.41
36	B2	1639	G	O4'-C1'	5.85	1.50	1.41
85	A5	90	G	C2'-C1'	-5.85	1.44	1.53
85	A5	3676	G	O4'-C1'	5.85	1.50	1.41
85	A5	3923	A	C2'-C1'	-5.85	1.44	1.53
85	A5	4725	C	C5'-C4'	5.85	1.60	1.51
36	B2	790	C	C2'-C1'	-5.85	1.44	1.53
36	B2	445	A	O4'-C1'	5.85	1.50	1.41
36	B2	1000	C	O4'-C1'	5.85	1.50	1.41
36	B2	1039	C	O4'-C1'	5.85	1.50	1.41
42	CL	52	SER	N-CA	-5.85	1.38	1.46
64	CF	110	GLN	C-N	-5.85	1.25	1.34
85	A5	107	G	O4'-C1'	-5.85	1.32	1.41
85	A5	2824	C	O4'-C1'	5.85	1.50	1.41
36	B2	311	C	C2'-C1'	-5.85	1.44	1.53
36	B2	880	G	C2'-C1'	5.85	1.62	1.53
85	A5	2822	G	O4'-C1'	-5.85	1.32	1.41
39	Cq	206	ILE	N-CA	-5.85	1.39	1.46
1	Az	192	TYR	N-CA	-5.84	1.39	1.46
1	Az	801	ARG	CA-C	-5.84	1.45	1.52
85	A5	4389	C	C2'-C1'	-5.84	1.44	1.53
85	A5	962	C	O4'-C1'	5.84	1.50	1.41
85	A5	4112	C	O4'-C1'	5.84	1.50	1.41
85	A5	4187	G	O3'-P	-5.84	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1728	U	O4'-C1'	5.84	1.50	1.41
36	B2	1848	U	O4'-C1'	5.84	1.50	1.41
82	CG	86	ALA	CA-CB	-5.84	1.43	1.53
36	B2	850	C	C2'-C1'	-5.84	1.44	1.53
85	A5	1439	C	C2'-C1'	5.84	1.61	1.53
85	A5	1978	C	O4'-C1'	5.84	1.50	1.41
28	AC	232	THR	CA-C	5.83	1.62	1.52
85	A5	4994	G	O4'-C1'	5.83	1.50	1.41
87	A8	95	A	O3'-P	-5.83	1.52	1.61
22	Ac	6	VAL	N-CA	5.83	1.52	1.46
36	B2	496	C	C2'-C1'	-5.83	1.44	1.53
57	CY	51	LYS	CA-C	5.83	1.60	1.52
43	CV	53	PRO	N-CD	5.83	1.55	1.47
85	A5	2458	C	C2'-C1'	-5.83	1.44	1.53
85	A5	670	G	O4'-C1'	-5.83	1.32	1.41
36	B2	103	A	O4'-C1'	-5.83	1.33	1.42
36	B2	348	A	O4'-C1'	5.83	1.50	1.41
66	Cd	122	VAL	N-CA	5.83	1.53	1.46
37	BC	58	A	C2'-C1'	-5.83	1.44	1.53
85	A5	1685	G	O4'-C1'	5.83	1.50	1.41
85	A5	2645	G	C2'-C1'	-5.83	1.44	1.53
85	A5	2741	U	O4'-C1'	5.83	1.50	1.42
85	A5	4365	C	O4'-C1'	5.83	1.50	1.41
85	A5	2603	C	C2'-C1'	-5.82	1.44	1.53
29	AG	158	VAL	CA-CB	-5.82	1.46	1.54
62	Cb	54	LEU	N-CA	5.82	1.53	1.46
85	A5	2056	G	C2'-C1'	-5.82	1.44	1.53
85	A5	3853	U	O4'-C1'	5.82	1.50	1.41
54	CP	59	PRO	N-CD	5.82	1.55	1.47
8	AS	95	TYR	N-CA	-5.82	1.38	1.46
42	CL	100	PRO	N-CD	5.82	1.55	1.47
85	A5	4208	U	O4'-C1'	5.82	1.50	1.41
50	CR	57	VAL	CA-CB	-5.82	1.46	1.55
81	CE	74	SER	CA-C	5.82	1.60	1.52
85	A5	4908	G	C2'-C1'	-5.81	1.44	1.53
85	A5	1405	C	C2'-C1'	-5.81	1.44	1.53
87	A8	105	C	O4'-C1'	5.81	1.50	1.42
2	Ag	50	THR	N-CA	-5.81	1.38	1.46
13	AP	17	TYR	C-N	5.81	1.41	1.33
36	B2	758	C	C2'-C1'	-5.81	1.44	1.53
85	A5	116	G	O4'-C1'	5.81	1.50	1.42
85	A5	1620	U	O4'-C1'	5.81	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2114	G	C2'-C1'	-5.81	1.44	1.53
85	A5	4674	C	O4'-C1'	5.81	1.50	1.41
85	A5	4914	C	O4'-C1'	5.81	1.50	1.41
36	B2	14	C	O4'-C1'	5.81	1.50	1.41
36	B2	952	G	C2'-C1'	-5.81	1.44	1.53
85	A5	2429	A	O4'-C1'	5.81	1.50	1.41
85	A5	1987	C	C2'-C1'	-5.81	1.44	1.53
85	A5	488	G	O4'-C1'	-5.80	1.32	1.41
36	B2	523	A	O4'-C1'	5.80	1.50	1.41
85	A5	2127	C	O4'-C1'	5.80	1.50	1.41
85	A5	936	C	O4'-C1'	5.80	1.50	1.42
85	A5	1210	C	O4'-C1'	5.80	1.50	1.42
36	B2	38	A	C2'-C1'	5.80	1.61	1.53
36	B2	1283	C	C2'-C1'	-5.80	1.44	1.53
39	Cq	36	GLY	C-N	-5.80	1.25	1.33
60	Cr	32	LEU	CA-C	5.80	1.60	1.52
85	A5	1795	A	O4'-C1'	5.80	1.50	1.41
36	B2	1390	U	C2'-C1'	-5.80	1.44	1.53
85	A5	1257	A	C2'-C1'	5.80	1.62	1.53
85	A5	3730	U	C2'-C1'	-5.80	1.44	1.53
12	AR	122	PRO	CA-C	5.79	1.60	1.52
36	B2	1398	G	C2'-C1'	-5.79	1.44	1.53
85	A5	2812	A	O4'-C1'	5.79	1.50	1.41
85	A5	4054	C	C2'-C1'	-5.79	1.44	1.53
3	AU	69	PRO	CA-C	-5.79	1.46	1.52
85	A5	2867	C	C2'-C1'	-5.79	1.44	1.53
85	A5	3920	U	C2'-C1'	-5.79	1.44	1.53
85	A5	4361	U	O4'-C1'	5.79	1.50	1.41
6	AX	92	ASN	CA-C	-5.79	1.45	1.52
36	B2	1207	G	O4'-C1'	5.79	1.50	1.41
82	CG	59	ARG	C-N	5.78	1.41	1.33
85	A5	3788	C	C2'-C1'	-5.78	1.44	1.53
85	A5	463	A	C2'-C1'	5.78	1.62	1.53
85	A5	935	A	C2'-C1'	-5.78	1.44	1.53
85	A5	1215	C	O4'-C1'	5.78	1.50	1.41
36	B2	1746	U	O3'-P	5.78	1.69	1.61
85	A5	2036	C	O4'-C1'	5.78	1.50	1.41
31	AH	67	PRO	N-CD	5.78	1.55	1.47
42	CL	56	ARG	NE-CZ	5.78	1.39	1.33
63	CB	261	ARG	CA-C	5.78	1.60	1.52
67	Ce	13	VAL	C-O	-5.78	1.17	1.23
85	A5	4895	C	O3'-P	-5.77	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	AH	118	ARG	CA-CB	-5.77	1.42	1.53
53	CT	3	ASN	CA-C	-5.77	1.45	1.52
85	A5	2399	G	C2'-C1'	-5.77	1.44	1.53
36	B2	9	U	O4'-C1'	5.77	1.50	1.41
85	A5	2405	G	C2'-C1'	-5.77	1.44	1.53
12	AR	91	LEU	N-CA	-5.77	1.38	1.46
31	AH	110	THR	N-CA	-5.77	1.38	1.46
85	A5	1612	G	O4'-C1'	5.77	1.50	1.42
85	A5	2040	A	C2'-C1'	-5.77	1.44	1.53
85	A5	4954	G	O4'-C1'	-5.77	1.32	1.41
36	B2	1382	A	O4'-C1'	5.77	1.50	1.41
36	B2	1717	C	O4'-C1'	5.77	1.50	1.41
85	A5	5034	A	C2'-C1'	-5.77	1.44	1.53
28	AC	61	MET	N-CA	-5.77	1.37	1.45
6	AX	58	GLU	N-CA	5.76	1.53	1.46
36	B2	576	A	C2'-C1'	-5.76	1.44	1.53
36	B2	1542	C	C2'-C1'	-5.76	1.44	1.53
44	CM	68	ALA	CA-CB	-5.76	1.44	1.53
85	A5	1317	U	C2'-C1'	-5.76	1.44	1.53
85	A5	4374	U	O4'-C1'	5.76	1.50	1.42
85	A5	4877	G	C2'-C1'	5.76	1.61	1.53
85	A5	2780	C	C2'-C1'	-5.76	1.44	1.53
85	A5	3918	G	O4'-C1'	5.76	1.50	1.41
64	CF	224	THR	N-CA	-5.76	1.38	1.46
85	A5	1580	C	C2'-C1'	-5.76	1.44	1.53
85	A5	1763	C	O4'-C1'	5.76	1.50	1.41
85	A5	4972	U	O4'-C1'	5.76	1.50	1.41
36	B2	444	G	O4'-C1'	-5.76	1.33	1.41
49	CQ	22	ASP	C-O	-5.76	1.16	1.24
85	A5	438	G	C2'-C1'	-5.76	1.44	1.53
85	A5	1806	G	O4'-C1'	5.76	1.50	1.41
85	A5	2557	G	C2'-C1'	-5.76	1.44	1.53
85	A5	4186	A	O4'-C1'	5.76	1.50	1.41
85	A5	4969	C	O4'-C1'	5.76	1.50	1.41
85	A5	51	A	O4'-C1'	5.75	1.50	1.41
38	Cz	99	LEU	N-CA	5.75	1.53	1.46
85	A5	3905	A	O4'-C1'	-5.75	1.33	1.41
85	A5	407	A	O4'-C1'	5.75	1.50	1.41
85	A5	2294	G	O4'-C1'	5.75	1.50	1.41
16	AA	188	THR	CA-C	-5.75	1.45	1.52
19	AZ	107	VAL	N-CA	-5.75	1.39	1.46
64	CF	80	ASN	N-CA	-5.75	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2902	G	C2'-C1'	-5.75	1.44	1.53
36	B2	1620	A	O4'-C1'	-5.75	1.33	1.42
49	CQ	184	ARG	CA-C	-5.75	1.45	1.52
86	A7	80	U	O4'-C1'	5.75	1.50	1.41
37	BC	49	A	O4'-C1'	5.75	1.50	1.41
70	Ci	11	LEU	C-O	-5.75	1.19	1.24
36	B2	678	U	O4'-C1'	5.74	1.50	1.41
85	A5	312	G	C2'-C1'	-5.74	1.44	1.53
85	A5	944	A	C2'-C1'	5.74	1.61	1.53
85	A5	1321	G	O4'-C1'	5.74	1.50	1.41
85	A5	1096	C	C2'-C1'	-5.74	1.44	1.53
36	B2	208	G	O4'-C1'	5.74	1.50	1.41
59	CZ	6	LYS	N-CA	-5.74	1.38	1.46
85	A5	1971	C	O4'-C1'	5.74	1.50	1.41
24	Ae	20	ALA	CA-C	-5.74	1.45	1.52
36	B2	1215	C	O4'-C1'	5.74	1.50	1.42
36	B2	1597	C	C2'-C1'	-5.74	1.44	1.53
36	B2	1701	C	O4'-C1'	5.74	1.50	1.42
85	A5	1287	G	O4'-C1'	5.74	1.50	1.42
85	A5	3785	A	O4'-C1'	-5.74	1.33	1.42
85	A5	2129	C	O4'-C1'	5.74	1.50	1.41
85	A5	2445	C	O4'-C1'	5.74	1.50	1.41
85	A5	2829	U	C2'-C1'	5.74	1.61	1.53
85	A5	3903	A	C2'-C1'	-5.74	1.44	1.53
85	A5	3727	A	C2'-C1'	-5.73	1.44	1.53
63	CB	293	ILE	CA-CB	5.73	1.62	1.54
85	A5	252	C	O4'-C1'	5.73	1.50	1.41
86	A7	106	G	C2'-C1'	-5.73	1.44	1.53
36	B2	172	U	O4'-C1'	5.73	1.50	1.42
85	A5	305	A	O4'-C1'	5.73	1.50	1.41
85	A5	5062	G	C2'-C1'	-5.73	1.44	1.53
73	Cl	24	PRO	N-CD	5.73	1.55	1.47
74	CC	91	ALA	C-O	-5.73	1.16	1.23
37	BC	7	G	O4'-C1'	5.73	1.50	1.42
47	CI	199	TYR	CA-C	-5.73	1.45	1.52
85	A5	4557	U	O4'-C1'	5.73	1.50	1.41
85	A5	4695	C	C2'-C1'	-5.72	1.44	1.53
36	B2	230	A	O4'-C1'	5.72	1.50	1.41
85	A5	5056	A	O4'-C1'	5.72	1.50	1.41
36	B2	414	A	O4'-C1'	5.72	1.50	1.41
36	B2	1263	U	C5'-C4'	5.72	1.59	1.51
85	A5	2008	U	O4'-C1'	-5.72	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4478	G	O4'-C1'	5.72	1.50	1.41
85	A5	4278	C	O4'-C1'	5.72	1.50	1.41
36	B2	920	A	O4'-C1'	5.72	1.50	1.42
85	A5	2564	G	O4'-C1'	5.72	1.50	1.41
85	A5	2890	C	C2'-C1'	-5.72	1.44	1.53
85	A5	1316	G	C2'-C1'	-5.71	1.44	1.53
85	A5	2023	C	C2'-C1'	-5.71	1.44	1.53
85	A5	2577	C	O4'-C1'	5.71	1.50	1.41
85	A5	2682	G	C2'-C1'	-5.71	1.44	1.53
86	A7	47	G	C2'-C1'	-5.71	1.44	1.53
85	A5	3716	C	O4'-C1'	5.71	1.50	1.41
37	BC	9	G	O4'-C1'	5.71	1.50	1.42
85	A5	4115	G	O4'-C1'	5.71	1.50	1.42
36	B2	471	G	O4'-C1'	-5.71	1.33	1.42
85	A5	1269	G	O3'-P	-5.71	1.52	1.61
85	A5	2109	G	O4'-C1'	5.71	1.50	1.41
85	A5	3918	G	C2'-C1'	-5.70	1.44	1.53
85	A5	4368	G	O4'-C1'	5.70	1.50	1.41
85	A5	1090	G	C2'-C1'	-5.70	1.44	1.53
85	A5	1352	C	O4'-C1'	5.70	1.50	1.41
85	A5	2681	G	O4'-C1'	5.70	1.50	1.41
85	A5	384	A	C2'-C1'	-5.70	1.44	1.53
85	A5	2852	U	C2'-C1'	-5.70	1.44	1.53
85	A5	1761	G	C2'-C1'	-5.70	1.44	1.53
36	B2	282	G	O4'-C1'	5.70	1.50	1.41
57	CY	48	PRO	N-CD	5.70	1.55	1.47
53	CT	68	THR	N-CA	5.69	1.53	1.45
85	A5	4937	C	O4'-C1'	-5.69	1.33	1.41
36	B2	378	U	C2'-C1'	-5.69	1.44	1.53
54	CP	93	HIS	CA-C	-5.69	1.45	1.52
85	A5	4343	U	O4'-C1'	5.69	1.50	1.41
86	A7	50	A	C2'-C1'	-5.69	1.44	1.53
60	Cr	66	ARG	C-O	-5.69	1.16	1.24
36	B2	1669	G	C2'-C1'	-5.69	1.44	1.53
80	CH	51	LYS	N-CA	-5.69	1.41	1.46
85	A5	952	G	O3'-P	-5.69	1.52	1.61
81	CE	82	LYS	C-O	-5.69	1.16	1.23
85	A5	3858	C	C2'-C1'	-5.69	1.44	1.53
86	A7	67	C	C2'-C1'	-5.69	1.44	1.53
12	AR	42	PRO	N-CD	5.68	1.55	1.47
31	AH	119	SER	CA-C	-5.68	1.47	1.53
36	B2	195	C	C2'-C1'	-5.68	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	CK	88	PRO	CA-C	5.68	1.57	1.52
85	A5	3621	A	O4'-C1'	5.68	1.50	1.41
36	B2	567	C	C2'-C1'	-5.68	1.44	1.53
85	A5	270	U	C2'-C1'	-5.68	1.44	1.53
85	A5	2882	A	C2'-C1'	5.68	1.61	1.53
85	A5	1722	C	C2'-C1'	-5.68	1.44	1.53
33	AI	184	ARG	CA-C	-5.68	1.45	1.52
43	CV	120	PRO	N-CD	5.68	1.55	1.47
74	CC	334	THR	C-N	5.68	1.41	1.33
85	A5	2562	G	C2'-C1'	5.68	1.61	1.53
85	A5	5065	U	O4'-C1'	5.68	1.50	1.41
85	A5	2	G	O4'-C1'	5.68	1.50	1.41
85	A5	1547	A	O4'-C1'	5.68	1.50	1.41
85	A5	4214	A	C2'-C1'	5.68	1.61	1.53
85	A5	3714	G	C2'-C1'	-5.67	1.44	1.53
87	A8	83	C	C2'-C1'	5.67	1.61	1.53
85	A5	2858	A	O4'-C1'	5.67	1.50	1.41
35	Ah	162	ILE	C-N	5.67	1.41	1.33
85	A5	310	G	C5'-C4'	5.67	1.59	1.51
85	A5	1751	A	O4'-C1'	5.67	1.50	1.41
85	A5	2891	U	O4'-C1'	5.67	1.50	1.41
85	A5	3886	G	O4'-C1'	-5.67	1.33	1.41
85	A5	4424	A	O4'-C1'	5.67	1.50	1.41
85	A5	3867	A	O4'-C1'	5.67	1.50	1.41
36	B2	203	G	C2'-C1'	-5.67	1.44	1.53
45	Ca	66	ASN	CA-C	-5.67	1.45	1.52
53	CT	138	ALA	CA-CB	-5.67	1.43	1.53
85	A5	1260	G	C2'-C1'	-5.67	1.44	1.53
85	A5	1676	C	C2'-C1'	-5.67	1.44	1.53
85	A5	2888	G	C2'-C1'	-5.67	1.44	1.53
85	A5	4174	U	C2'-C1'	-5.67	1.44	1.53
1	Az	740	LEU	C-N	5.67	1.41	1.33
35	Ah	180	GLY	N-CA	-5.67	1.37	1.45
36	B2	29	G	C2'-C1'	-5.67	1.44	1.53
36	B2	1692	U	C2'-C1'	-5.67	1.44	1.53
85	A5	2521	G	C2'-C1'	-5.67	1.44	1.53
52	CS	72	PRO	C-N	5.66	1.41	1.33
74	CC	330	PRO	N-CD	5.66	1.55	1.47
85	A5	5040	U	O4'-C1'	5.66	1.50	1.42
85	A5	1733	G	C2'-C1'	5.66	1.61	1.53
36	B2	1803	U	O4'-C1'	5.66	1.50	1.41
85	A5	218	A	O4'-C1'	5.66	1.50	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	2748	C	C2'-C1'	-5.66	1.44	1.53
36	B2	934	G	C2'-C1'	-5.66	1.44	1.53
37	BC	19	A	O4'-C1'	-5.66	1.33	1.41
85	A5	2546	G	O3'-P	-5.66	1.52	1.61
85	A5	3841	C	C2'-C1'	-5.66	1.44	1.53
30	AF	79	HIS	N-CA	-5.66	1.38	1.46
14	AT	42	HIS	CA-C	-5.66	1.44	1.52
85	A5	10	A	O4'-C1'	5.66	1.50	1.41
85	A5	347	A	C2'-C1'	-5.66	1.44	1.53
85	A5	1333	A	O4'-C1'	5.66	1.50	1.41
85	A5	1409	C	O4'-C1'	5.66	1.50	1.42
85	A5	2816	G	O4'-C1'	5.66	1.50	1.41
85	A5	1378	C	C2'-C1'	-5.65	1.44	1.53
85	A5	2043	A	C2'-C1'	5.65	1.61	1.53
85	A5	753	C	O4'-C1'	5.65	1.50	1.41
85	A5	3685	C	O4'-C1'	5.65	1.50	1.41
67	Ce	91	CYS	N-CA	5.65	1.52	1.46
36	B2	387	C	C2'-C1'	-5.65	1.44	1.53
85	A5	240	G	C2'-C1'	-5.65	1.44	1.53
85	A5	2847	G	O4'-C1'	-5.65	1.33	1.41
33	AI	8	TRP	CA-CB	5.65	1.63	1.53
47	CI	199	TYR	C-N	5.65	1.39	1.33
30	AF	82	ASN	N-CA	-5.64	1.38	1.46
36	B2	1282	A	O4'-C1'	5.64	1.50	1.41
43	CV	75	LYS	N-CA	5.64	1.53	1.46
54	CP	116	HIS	CA-C	-5.64	1.45	1.52
85	A5	635	G	O4'-C1'	-5.64	1.33	1.41
36	B2	100	U	O4'-C1'	5.64	1.50	1.41
45	Ca	50	PRO	N-CD	5.64	1.55	1.47
85	A5	2648	G	O4'-C1'	-5.64	1.33	1.42
36	B2	896	U	O4'-C1'	5.64	1.50	1.41
37	BC	36	A	C5'-C4'	5.64	1.59	1.51
39	Cq	44	ARG	NE-CZ	5.64	1.39	1.33
58	CW	71	ARG	C-N	-5.64	1.25	1.33
85	A5	1216	C	C2'-C1'	-5.64	1.44	1.53
36	B2	1631	U	O4'-C1'	5.64	1.50	1.41
85	A5	4139	G	O4'-C1'	5.64	1.50	1.41
74	CC	36	ILE	N-CA	5.63	1.53	1.46
85	A5	1813	U	O4'-C1'	5.63	1.50	1.41
85	A5	2789	A	C2'-C1'	5.63	1.61	1.53
85	A5	2851	G	O4'-C1'	5.63	1.50	1.41
54	CP	114	ILE	C-O	-5.63	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	CM	66	HIS	N-CA	5.63	1.54	1.46
85	A5	1273	G	O4'-C1'	-5.63	1.33	1.41
85	A5	1566	C	C2'-C1'	-5.63	1.45	1.53
85	A5	1882	U	O4'-C1'	-5.63	1.33	1.42
85	A5	2576	G	O4'-C1'	5.63	1.50	1.41
85	A5	1978	C	C2'-C1'	-5.63	1.45	1.53
16	AA	159	ILE	N-CA	-5.63	1.39	1.46
26	AJ	188	GLY	N-CA	5.63	1.54	1.45
36	B2	160	U	O4'-C1'	5.63	1.50	1.42
85	A5	926	G	C4'-C3'	5.63	1.61	1.53
85	A5	1889	U	C2'-C1'	-5.63	1.45	1.53
36	B2	495	U	C2'-C1'	-5.63	1.45	1.53
81	CE	33	LYS	N-CA	5.63	1.52	1.46
81	CE	219	LYS	CA-CB	5.63	1.62	1.53
54	CP	5	SER	CA-CB	5.62	1.62	1.53
85	A5	3753	G	O4'-C1'	5.62	1.50	1.41
12	AR	88	VAL	C-N	-5.62	1.25	1.33
36	B2	1065	G	O4'-C1'	5.62	1.50	1.41
85	A5	1065	G	C2'-C1'	-5.62	1.45	1.53
85	A5	2062	C	O4'-C1'	5.62	1.50	1.41
85	A5	3841	C	O4'-C1'	5.62	1.50	1.41
85	A5	3743	G	C2'-C1'	-5.62	1.45	1.53
37	BC	29	G	C2'-C1'	-5.62	1.45	1.53
85	A5	1451	G	O4'-C1'	5.62	1.50	1.41
36	B2	1427	C	C2'-C1'	5.61	1.61	1.53
85	A5	2360	A	C2'-C1'	-5.61	1.44	1.53
81	CE	115	TYR	CA-CB	5.61	1.62	1.53
85	A5	2725	A	O4'-C1'	5.61	1.50	1.41
85	A5	3668	C	C2'-C1'	-5.61	1.45	1.53
85	A5	4704	C	O4'-C1'	5.61	1.50	1.41
36	B2	649	U	O4'-C1'	5.61	1.50	1.41
85	A5	3654	G	C2'-C1'	-5.61	1.45	1.53
85	A5	4466	C	C2'-C1'	-5.61	1.45	1.53
36	B2	229	A	C2'-C1'	-5.61	1.45	1.53
86	A7	82	G	C2'-C1'	-5.61	1.45	1.53
36	B2	95	G	C2'-C1'	-5.61	1.45	1.53
63	CB	32	PHE	N-CA	-5.61	1.40	1.46
85	A5	2387	G	O4'-C1'	5.61	1.50	1.41
36	B2	1467	C	O4'-C1'	5.60	1.50	1.41
85	A5	4716	C	O4'-C1'	5.60	1.50	1.41
36	B2	754	G	C2'-C1'	-5.60	1.45	1.53
36	B2	803	C	O4'-C1'	5.60	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	CS	37	HIS	CA-C	-5.60	1.45	1.52
36	B2	1396	A	C2'-C1'	5.60	1.61	1.53
85	A5	2041	A	C2'-C1'	5.60	1.61	1.53
85	A5	2298	U	C2'-C1'	-5.60	1.45	1.53
85	A5	4969	C	C2'-C1'	-5.60	1.45	1.53
74	CC	103	ALA	C-O	5.60	1.26	1.23
85	A5	1321	G	C2'-C1'	-5.60	1.45	1.53
85	A5	5001	U	O4'-C1'	5.60	1.50	1.41
85	A5	333	U	O4'-C1'	5.60	1.50	1.41
85	A5	258	G	O4'-C1'	5.59	1.50	1.41
85	A5	1284	G	C2'-C1'	5.59	1.61	1.53
85	A5	1367	C	O4'-C1'	5.59	1.50	1.41
85	A5	2326	G	C2'-C1'	-5.59	1.45	1.53
85	A5	4288	C	C2'-C1'	-5.59	1.45	1.53
85	A5	4309	G	O4'-C1'	-5.59	1.33	1.41
85	A5	5018	C	C2'-C1'	-5.59	1.45	1.53
42	CL	48	PRO	N-CA	-5.59	1.40	1.47
85	A5	4498	U	C2'-C1'	5.59	1.61	1.53
36	B2	647	U	O4'-C1'	5.59	1.50	1.41
36	B2	1396	A	O4'-C1'	-5.59	1.33	1.41
36	B2	1493	C	C2'-C1'	5.59	1.61	1.53
68	Cf	31	GLU	C-O	-5.59	1.17	1.24
85	A5	3905	A	C2'-C1'	5.59	1.61	1.53
6	AX	24	ASP	C-N	-5.58	1.26	1.33
55	CU	123	GLU	C-N	5.58	1.41	1.33
85	A5	1586	G	O4'-C1'	5.58	1.50	1.41
36	B2	1125	C	O4'-C1'	5.58	1.50	1.41
36	B2	1402	A	C2'-C1'	-5.58	1.45	1.53
85	A5	3625	G	C2'-C1'	-5.58	1.45	1.53
36	B2	810	A	O4'-C1'	5.58	1.50	1.41
85	A5	2684	C	O4'-C1'	5.58	1.50	1.41
85	A5	4198	G	O4'-C1'	5.58	1.50	1.41
54	CP	107	LEU	N-CA	-5.58	1.38	1.45
85	A5	1499	C	O4'-C1'	5.58	1.50	1.41
85	A5	4254	G	C2'-C1'	-5.58	1.44	1.53
39	Cq	6	ARG	N-CA	5.58	1.53	1.46
85	A5	1887	G	O4'-C1'	5.58	1.50	1.41
10	AN	20	ARG	NE-CZ	5.58	1.39	1.33
36	B2	1615	U	O4'-C1'	5.58	1.50	1.41
52	CS	173	ASN	CA-C	-5.58	1.45	1.52
85	A5	2368	A	O4'-C1'	5.58	1.50	1.41
36	B2	1659	U	O3'-P	-5.57	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	3	C	C2'-C1'	5.57	1.61	1.53
85	A5	5051	C	O4'-C1'	5.57	1.50	1.41
1	Az	574	ASP	N-CA	-5.57	1.38	1.46
36	B2	165	G	O4'-C1'	-5.57	1.33	1.41
85	A5	2060	G	O4'-C1'	5.57	1.50	1.41
85	A5	2503	G	O4'-C1'	5.57	1.50	1.41
85	A5	2059	C	O4'-C1'	5.57	1.50	1.41
85	A5	3890	A	O4'-C1'	5.57	1.50	1.41
85	A5	1594	C	C2'-C1'	-5.56	1.45	1.53
30	AF	82	ASN	CA-CB	-5.56	1.43	1.53
36	B2	365	C	C2'-C1'	-5.56	1.45	1.53
52	CS	28	TYR	CA-C	-5.56	1.45	1.53
60	Cr	108	MET	CA-CB	-5.56	1.44	1.53
85	A5	1269	G	C2'-C1'	5.56	1.61	1.53
85	A5	2251	G	C2'-C1'	-5.56	1.44	1.53
36	B2	1010	G	C2'-C1'	5.56	1.61	1.53
85	A5	1404	G	C2'-C1'	5.56	1.61	1.53
36	B2	839	C	C2'-C1'	-5.56	1.44	1.53
36	B2	1503	C	O4'-C1'	5.56	1.50	1.41
48	CD	16	TYR	CA-C	-5.56	1.45	1.52
52	CS	146	HIS	N-CA	5.56	1.53	1.46
58	CW	16	GLY	C-O	-5.56	1.16	1.23
36	B2	1247	C	O4'-C1'	5.56	1.50	1.42
81	CE	44	CYS	CA-C	5.56	1.60	1.52
85	A5	1558	A	O4'-C1'	5.56	1.50	1.41
85	A5	4155	C	O4'-C1'	5.55	1.50	1.41
85	A5	1520	C	O3'-P	-5.55	1.52	1.61
40	CK	86	LYS	CA-C	-5.55	1.45	1.52
85	A5	256	G	O4'-C1'	5.55	1.50	1.41
85	A5	2574	G	C2'-C1'	5.55	1.61	1.53
85	A5	50	C	C2'-C1'	-5.55	1.45	1.53
85	A5	4285	U	O4'-C1'	5.55	1.50	1.41
85	A5	4338	G	C2'-C1'	5.54	1.61	1.53
29	AG	36	VAL	CB-CG1	-5.54	1.34	1.52
36	B2	1055	A	C5'-C4'	5.54	1.59	1.51
36	B2	1820	G	C2'-C1'	-5.54	1.45	1.53
85	A5	4888	U	O4'-C1'	-5.54	1.33	1.42
17	AV	24	ILE	CA-CB	-5.54	1.47	1.54
51	CA	222	PRO	N-CD	5.54	1.55	1.47
85	A5	4152	G	O4'-C1'	5.54	1.50	1.41
1	Az	794	PHE	N-CA	-5.53	1.38	1.45
81	CE	80	VAL	CA-C	5.53	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	309	C	C2'-C1'	5.53	1.61	1.53
85	A5	2856	C	C2'-C1'	-5.53	1.45	1.53
85	A5	4061	G	O3'-P	-5.53	1.52	1.61
85	A5	4224	A	O4'-C1'	5.53	1.50	1.41
58	CW	71	ARG	NE-CZ	5.53	1.39	1.33
85	A5	4469	U	C2'-C1'	-5.53	1.45	1.53
85	A5	1834	U	O4'-C1'	-5.53	1.33	1.41
85	A5	4341	C	C2'-C1'	-5.53	1.45	1.53
1	Az	72	SER	C-O	-5.53	1.17	1.24
36	B2	868	G	C2'-C1'	-5.53	1.44	1.53
36	B2	459	C	C2'-C1'	-5.52	1.45	1.53
36	B2	1689	C	O4'-C1'	5.52	1.50	1.41
56	CX	155	ILE	CA-C	-5.52	1.45	1.52
69	Cg	48	VAL	CA-CB	-5.52	1.47	1.54
85	A5	3681	G	O4'-C1'	5.52	1.50	1.42
22	Ac	7	GLN	CA-C	5.52	1.59	1.52
85	A5	4098	A	O4'-C1'	5.52	1.50	1.41
77	Cp	91	ASP	CA-CB	-5.52	1.45	1.52
85	A5	350	C	C2'-C1'	-5.52	1.45	1.53
85	A5	1825	A	O4'-C1'	5.52	1.50	1.41
85	A5	2375	A	C2'-C1'	-5.52	1.45	1.53
85	A5	4474	A	C2'-C1'	5.52	1.61	1.53
85	A5	4917	C	O4'-C1'	5.52	1.50	1.41
70	Ci	6	PRO	CA-CB	-5.51	1.46	1.53
85	A5	757	G	C2'-C1'	-5.51	1.45	1.53
85	A5	1107	C	C2'-C1'	-5.51	1.45	1.53
85	A5	1376	C	C2'-C1'	-5.51	1.45	1.53
85	A5	758	G	C2'-C1'	-5.51	1.45	1.53
85	A5	4954	G	C2'-C1'	5.51	1.61	1.53
40	CK	111	ASN	N-CA	5.51	1.53	1.46
85	A5	988	C	C2'-C1'	-5.51	1.45	1.53
85	A5	2032	U	C2'-C1'	-5.51	1.45	1.53
36	B2	119	U	C2'-C1'	-5.51	1.45	1.53
36	B2	498	C	C2'-C1'	-5.51	1.45	1.53
45	Ca	97	ALA	N-CA	-5.51	1.39	1.46
85	A5	1946	G	C2'-C1'	-5.51	1.45	1.53
85	A5	1444	G	C2'-C1'	-5.51	1.45	1.53
85	A5	4119	C	C2'-C1'	5.50	1.61	1.53
85	A5	2623	A	O4'-C1'	5.50	1.50	1.41
86	A7	18	C	C2'-C1'	-5.50	1.45	1.53
36	B2	1841	C	C2'-C1'	-5.50	1.45	1.53
36	B2	973	C	C5'-C4'	5.50	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1631	U	C2'-C1'	-5.50	1.45	1.53
47	CI	160	PRO	N-CD	5.50	1.55	1.47
85	A5	4552	U	O4'-C1'	5.50	1.49	1.41
36	B2	1856	C	C2'-C1'	-5.50	1.45	1.53
85	A5	3786	U	C2'-C1'	-5.50	1.44	1.53
85	A5	3873	G	O4'-C1'	5.50	1.49	1.41
85	A5	4932	U	C2'-C1'	-5.50	1.45	1.53
36	B2	577	U	O4'-C1'	5.50	1.49	1.41
36	B2	1048	G	C5'-C4'	5.49	1.59	1.51
85	A5	2305	U	O4'-C1'	5.49	1.50	1.42
21	Ab	36	LYS	N-CA	5.49	1.52	1.46
36	B2	1448	A	C2'-C1'	-5.49	1.45	1.53
68	Cf	109	ARG	NE-CZ	5.49	1.39	1.33
85	A5	1690	C	C2'-C1'	-5.49	1.45	1.53
53	CT	126	VAL	N-CA	-5.49	1.39	1.46
56	CX	53	ARG	CD-NE	5.49	1.53	1.46
81	CE	88	VAL	C-N	-5.49	1.25	1.33
85	A5	460	C	C2'-C1'	-5.49	1.45	1.53
85	A5	2424	G	O4'-C1'	5.49	1.49	1.41
85	A5	2787	A	C2'-C1'	5.49	1.61	1.53
85	A5	4219	A	C2'-C1'	-5.49	1.45	1.53
36	B2	470	G	C2'-C1'	-5.49	1.45	1.53
36	B2	901	G	C2'-C1'	-5.49	1.45	1.53
87	A8	16	G	O3'-P	-5.49	1.52	1.61
39	Cq	255	THR	CA-C	-5.49	1.45	1.52
36	B2	1846	G	O4'-C1'	5.49	1.49	1.41
85	A5	2755	A	O4'-C1'	5.49	1.49	1.41
36	B2	1574	C	O4'-C1'	5.48	1.49	1.41
51	CA	206	PRO	N-CD	5.48	1.55	1.47
36	B2	380	G	O4'-C1'	-5.48	1.33	1.41
85	A5	225	G	O4'-C1'	5.48	1.50	1.42
85	A5	952	G	C2'-C1'	-5.48	1.45	1.53
85	A5	3896	C	O4'-C1'	5.48	1.49	1.41
85	A5	4646	U	O4'-C1'	5.48	1.49	1.41
63	CB	356	LYS	CA-CB	-5.48	1.44	1.53
85	A5	2251	G	O4'-C1'	5.48	1.50	1.42
51	CA	108	PRO	N-CD	5.48	1.55	1.47
85	A5	3629	A	O4'-C1'	5.48	1.49	1.41
14	AT	4	VAL	CA-C	5.48	1.64	1.52
24	Ae	56	ASN	C-N	5.48	1.41	1.33
85	A5	4216	G	C2'-C1'	-5.48	1.45	1.53
80	CH	130	PRO	CA-C	-5.48	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	CS	60	GLU	N-CA	-5.47	1.39	1.45
85	A5	4495	G	C2'-C1'	-5.47	1.45	1.53
36	B2	398	A	O4'-C1'	5.47	1.50	1.42
85	A5	1080	C	C2'-C1'	-5.47	1.45	1.53
86	A7	9	C	C2'-C1'	-5.47	1.45	1.53
87	A8	76	C	O4'-C1'	5.47	1.49	1.41
36	B2	1177	U	O4'-C1'	5.47	1.49	1.41
85	A5	1640	C	C5'-C4'	5.47	1.59	1.51
85	A5	2277	C	O4'-C1'	5.47	1.49	1.41
36	B2	1106	C	O4'-C1'	5.47	1.49	1.41
51	CA	68	ARG	CA-C	-5.47	1.46	1.52
36	B2	1406	G	O4'-C1'	5.46	1.49	1.41
36	B2	1469	A	C2'-C1'	-5.46	1.45	1.53
85	A5	1404	G	O4'-C1'	-5.46	1.33	1.41
87	A8	92	U	C2'-C1'	-5.46	1.45	1.53
85	A5	2577	C	C2'-C1'	-5.46	1.45	1.53
85	A5	3851	U	C2'-C1'	-5.46	1.45	1.53
8	AS	50	ILE	CA-C	5.46	1.59	1.52
64	CF	221	LYS	CA-C	5.46	1.60	1.52
85	A5	97	G	O4'-C1'	5.46	1.49	1.41
36	B2	273	G	O3'-P	-5.46	1.52	1.61
85	A5	518	G	C2'-C1'	-5.46	1.45	1.53
51	CA	64	ARG	CD-NE	5.46	1.53	1.46
85	A5	1936	C	C2'-C1'	-5.46	1.45	1.53
85	A5	2524	U	O4'-C1'	5.46	1.49	1.41
8	AS	9	PHE	CA-C	5.46	1.59	1.52
85	A5	652	G	C2'-C1'	-5.46	1.45	1.53
85	A5	1441	C	C2'-C1'	-5.46	1.45	1.53
85	A5	2444	U	C2'-C1'	-5.46	1.45	1.53
36	B2	481	C	O4'-C1'	5.45	1.49	1.41
36	B2	1742	C	O4'-C1'	5.45	1.49	1.41
37	BC	69	G	O4'-C1'	5.45	1.49	1.41
65	Cc	88	TYR	CB-CG	-5.45	1.39	1.51
85	A5	2712	G	O4'-C1'	5.45	1.49	1.41
36	B2	1219	C	O4'-C1'	5.45	1.49	1.41
85	A5	1244	G	O4'-C1'	-5.45	1.33	1.42
85	A5	1642	A	O4'-C1'	5.45	1.50	1.42
36	B2	205	G	C2'-C1'	-5.45	1.45	1.53
37	BC	7	G	C2'-C1'	5.45	1.61	1.53
31	AH	109	ARG	CA-C	-5.45	1.45	1.52
52	CS	146	HIS	C-N	-5.45	1.25	1.33
58	CW	28	VAL	CA-CB	-5.45	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Az	118	ALA	CA-C	-5.45	1.45	1.52
6	AX	115	ILE	CA-CB	-5.45	1.47	1.54
85	A5	2839	U	O4'-C1'	5.45	1.49	1.41
85	A5	1203	G	C2'-C1'	-5.44	1.45	1.53
53	CT	79	GLN	C-N	5.44	1.38	1.33
85	A5	978	G	C2'-C1'	-5.44	1.45	1.53
36	B2	74	G	O5'-C5'	5.44	1.50	1.42
36	B2	878	G	C2'-C1'	-5.44	1.45	1.53
59	CZ	56	ALA	N-CA	-5.44	1.39	1.46
85	A5	3849	A	C2'-C1'	-5.44	1.45	1.53
87	A8	7	U	O4'-C1'	5.44	1.49	1.41
8	AS	53	THR	C-N	5.44	1.41	1.33
85	A5	655	C	C2'-C1'	-5.44	1.45	1.53
85	A5	700	G	O4'-C1'	5.44	1.49	1.41
33	AI	131	PRO	C-N	5.43	1.42	1.33
36	B2	1476	A	C2'-C1'	5.43	1.61	1.53
85	A5	637	G	C2'-C1'	-5.43	1.45	1.53
85	A5	1801	A	C2'-C1'	-5.43	1.45	1.53
36	B2	1845	A	C2'-C1'	-5.43	1.45	1.53
85	A5	4293	U	O4'-C1'	5.43	1.49	1.41
86	A7	97	G	O3'-P	-5.43	1.53	1.61
85	A5	4772	C	C2'-C1'	-5.43	1.45	1.53
85	A5	25	A	O4'-C1'	5.43	1.49	1.41
85	A5	4193	C	O4'-C1'	5.43	1.49	1.41
86	A7	119	U	O4'-C1'	5.43	1.49	1.41
60	Cr	72	LYS	CA-C	-5.43	1.46	1.52
85	A5	1282	G	C2'-C1'	5.43	1.61	1.53
85	A5	4223	C	C2'-C1'	-5.43	1.45	1.53
4	AK	79	LEU	C-N	5.43	1.41	1.33
21	Ab	53	VAL	N-CA	-5.43	1.39	1.46
36	B2	1419	C	O4'-C1'	5.43	1.49	1.41
52	CS	15	ARG	C-O	-5.42	1.17	1.23
81	CE	141	ARG	N-CA	5.42	1.52	1.45
30	AF	82	ASN	CA-C	-5.42	1.45	1.52
85	A5	1274	A	O3'-P	-5.42	1.53	1.61
85	A5	1308	C	C2'-C1'	-5.42	1.45	1.53
12	AR	3	ARG	C-N	-5.42	1.25	1.33
85	A5	41	C	C2'-C1'	-5.42	1.45	1.53
85	A5	214	G	C2'-C1'	-5.42	1.45	1.53
85	A5	2090	U	O3'-P	-5.42	1.53	1.61
87	A8	107	C	P-O5'	-5.42	1.51	1.59
36	B2	1127	C	C2'-C1'	-5.42	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
67	Ce	21	ILE	CA-C	-5.42	1.47	1.53
85	A5	1739	G	C2'-C1'	-5.42	1.45	1.53
85	A5	2059	C	C2'-C1'	-5.42	1.45	1.53
85	A5	4403	U	C2'-C1'	-5.42	1.45	1.53
36	B2	986	G	C2'-C1'	-5.42	1.45	1.53
36	B2	1646	C	C4'-O4'	-5.42	1.37	1.45
85	A5	343	C	O4'-C1'	5.42	1.49	1.41
85	A5	4349	C	O4'-C1'	5.42	1.50	1.42
85	A5	4423	U	O4'-C1'	-5.42	1.33	1.41
87	A8	144	U	C2'-C1'	-5.42	1.45	1.53
36	B2	1338	G	O4'-C1'	5.41	1.49	1.41
85	A5	754	U	O4'-C1'	5.41	1.49	1.41
29	AG	131	ARG	NE-CZ	5.41	1.39	1.33
68	Cf	59	THR	N-CA	5.41	1.53	1.46
36	B2	964	A	C2'-C1'	5.41	1.61	1.53
36	B2	1089	G	O4'-C1'	5.41	1.49	1.41
36	B2	1100	A	C2'-C1'	-5.41	1.45	1.53
36	B2	1673	U	C2'-C1'	-5.41	1.45	1.53
36	B2	1349	G	C2'-C1'	-5.41	1.45	1.53
85	A5	4041	C	O4'-C1'	5.41	1.49	1.41
59	CZ	90	PRO	N-CD	5.41	1.55	1.47
86	A7	94	C	C2'-C1'	-5.41	1.45	1.53
47	CI	107	GLY	CA-C	-5.41	1.44	1.51
85	A5	1833	G	C5'-C4'	5.41	1.59	1.51
85	A5	927	G	O4'-C1'	-5.40	1.33	1.42
15	AB	57	ILE	CA-C	5.40	1.59	1.52
36	B2	525	A	C2'-C1'	-5.40	1.45	1.53
81	CE	93	THR	CA-CB	5.40	1.69	1.54
87	A8	116	C	C2'-C1'	-5.40	1.45	1.53
85	A5	4253	A	C2'-C1'	-5.40	1.45	1.53
85	A5	4071	U	C2'-C1'	-5.39	1.45	1.53
85	A5	4390	A	O4'-C1'	5.39	1.49	1.41
28	AC	134	ASN	N-CA	-5.39	1.40	1.46
85	A5	1883	G	C2'-C1'	-5.39	1.45	1.53
85	A5	2562	G	O5'-C5'	5.39	1.50	1.42
39	Cq	65	ILE	N-CA	-5.39	1.40	1.46
74	CC	335	MET	C-O	-5.39	1.18	1.24
36	B2	94	G	O4'-C1'	5.39	1.49	1.41
36	B2	414	A	C2'-C1'	5.39	1.61	1.53
36	B2	1046	U	O4'-C1'	5.39	1.49	1.41
36	B2	1049	A	C2'-C1'	5.39	1.61	1.53
36	B2	1227	G	C2'-C1'	-5.39	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	CB	236	HIS	CA-CB	-5.39	1.44	1.53
85	A5	4156	G	C2'-C1'	5.39	1.61	1.53
85	A5	5049	G	O4'-C1'	-5.39	1.33	1.42
1	Az	123	ASP	C-N	5.39	1.40	1.33
2	Ag	281	ALA	CA-CB	-5.39	1.44	1.53
85	A5	75	G	O4'-C1'	5.39	1.50	1.42
85	A5	329	A	O4'-C1'	5.39	1.49	1.41
13	AP	18	ARG	NE-CZ	5.39	1.39	1.33
36	B2	421	G	O3'-P	-5.39	1.53	1.61
85	A5	1734	G	O4'-C1'	5.39	1.50	1.42
36	B2	479	C	O4'-C1'	5.38	1.49	1.41
36	B2	1681	U	C2'-C1'	-5.38	1.45	1.53
55	CU	49	VAL	CA-C	-5.38	1.46	1.52
85	A5	1373	A	C2'-C1'	-5.38	1.45	1.53
85	A5	3722	G	O4'-C1'	5.38	1.49	1.41
8	AS	89	ASP	CA-C	-5.38	1.45	1.52
85	A5	1948	G	O4'-C1'	5.38	1.49	1.41
47	CI	4	ARG	CA-C	5.38	1.59	1.52
74	CC	134	PRO	N-CD	5.38	1.55	1.47
42	CL	54	PRO	CA-C	5.38	1.60	1.52
81	CE	35	LYS	C-N	5.38	1.44	1.33
85	A5	23	C	C2'-C1'	-5.38	1.45	1.53
85	A5	1687	U	O4'-C1'	5.38	1.49	1.41
1	Az	325	SER	N-CA	-5.38	1.39	1.46
85	A5	66	A	O3'-P	-5.38	1.53	1.61
85	A5	1369	C	C2'-C1'	-5.38	1.45	1.53
40	CK	34	PRO	N-CD	5.37	1.55	1.47
85	A5	1694	C	C2'-C1'	-5.37	1.45	1.53
85	A5	2860	C	C2'-C1'	-5.37	1.45	1.53
85	A5	2869	U	C2'-C1'	-5.37	1.45	1.53
85	A5	5027	C	O4'-C1'	-5.37	1.33	1.42
13	AP	36	LEU	N-CA	-5.37	1.39	1.46
36	B2	871	U	O4'-C1'	-5.37	1.33	1.42
85	A5	4944	C	O4'-C1'	5.37	1.50	1.42
74	CC	287	THR	CA-CB	-5.37	1.44	1.53
85	A5	475	G	O4'-C1'	5.37	1.49	1.41
85	A5	1748	U	C2'-C1'	5.37	1.61	1.53
15	AB	133	TYR	N-CA	-5.37	1.39	1.46
36	B2	1587	G	O4'-C1'	-5.37	1.33	1.42
82	CG	57	TRP	CA-C	-5.37	1.45	1.52
85	A5	3726	A	C2'-C1'	5.37	1.61	1.53
10	AN	136	PRO	N-CD	5.37	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	958	G	O4'-C1'	-5.37	1.33	1.41
85	A5	155	C	C2'-C1'	-5.37	1.45	1.53
85	A5	2342	G	C2'-C1'	-5.37	1.45	1.53
85	A5	4058	U	C2'-C1'	5.37	1.61	1.53
85	A5	4438	U	O4'-C1'	5.37	1.49	1.41
87	A8	77	A	O4'-C1'	5.37	1.49	1.41
1	Az	111	PHE	C-N	5.36	1.40	1.33
48	CD	261	VAL	N-CA	5.36	1.53	1.46
85	A5	1888	A	C2'-C1'	-5.36	1.45	1.53
85	A5	3898	G	C2'-C1'	-5.36	1.45	1.53
85	A5	4937	C	C2'-C1'	5.36	1.61	1.53
37	BC	35	U	O4'-C1'	5.36	1.49	1.41
49	CQ	15	ARG	CA-C	-5.36	1.46	1.52
85	A5	1537	A	O4'-C1'	5.36	1.49	1.41
87	A8	41	A	C2'-C1'	5.36	1.61	1.53
28	AC	197	PRO	N-CD	5.36	1.55	1.47
85	A5	2012	A	C2'-C1'	-5.36	1.45	1.53
85	A5	2546	G	C2'-C1'	-5.36	1.45	1.53
85	A5	4305	G	O4'-C1'	5.36	1.50	1.42
86	A7	59	G	O4'-C1'	5.36	1.49	1.41
87	A8	125	C	C2'-C1'	5.36	1.61	1.53
85	A5	4882	U	C5'-C4'	5.36	1.59	1.51
53	CT	30	TYR	CB-CG	-5.36	1.39	1.51
67	Ce	15	LYS	C-N	-5.36	1.26	1.33
85	A5	2766	A	O4'-C1'	-5.36	1.33	1.42
85	A5	4307	A	O4'-C1'	5.36	1.49	1.41
36	B2	1715	A	O4'-C1'	5.36	1.49	1.41
36	B2	409	C	C2'-C1'	-5.35	1.45	1.53
29	AG	169	PRO	N-CD	5.35	1.55	1.47
36	B2	675	U	O4'-C1'	5.35	1.49	1.41
36	B2	824	C	C2'-C1'	-5.35	1.45	1.53
44	CM	42	CYS	CA-C	-5.35	1.45	1.52
85	A5	193	G	C2'-C1'	-5.35	1.45	1.53
85	A5	1625	G	O4'-C1'	5.35	1.50	1.42
85	A5	2638	G	O4'-C1'	5.35	1.49	1.41
36	B2	1806	A	O4'-C1'	5.35	1.49	1.41
39	Cq	70	GLU	C-N	5.35	1.41	1.33
46	CN	127	TYR	C-O	-5.35	1.16	1.23
85	A5	692	A	O4'-C1'	5.35	1.49	1.41
85	A5	2554	U	O4'-C1'	5.35	1.49	1.41
85	A5	5016	A	O4'-C1'	-5.35	1.33	1.41
85	A5	2371	U	O4'-C1'	5.35	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1721	G	O4'-C1'	5.34	1.49	1.41
85	A5	3638	G	O4'-C1'	5.34	1.49	1.41
36	B2	1012	A	C2'-C1'	-5.34	1.45	1.53
85	A5	2075	G	C2'-C1'	-5.34	1.45	1.53
36	B2	328	U	O4'-C1'	5.34	1.49	1.41
36	B2	1784	G	C2'-C1'	-5.34	1.45	1.53
82	CG	184	ILE	C-O	-5.34	1.17	1.24
85	A5	979	C	C2'-C1'	-5.34	1.45	1.53
85	A5	2283	G	C2'-C1'	-5.34	1.45	1.53
59	CZ	50	PRO	N-CD	5.34	1.55	1.47
36	B2	1428	G	C2'-C1'	5.34	1.61	1.53
85	A5	1960	A	C2'-C1'	5.34	1.61	1.53
85	A5	3939	G	O4'-C1'	5.34	1.49	1.41
1	Az	325	SER	C-O	5.34	1.30	1.24
67	Ce	21	ILE	CA-CB	-5.33	1.47	1.54
85	A5	1770	A	C2'-C1'	-5.33	1.45	1.53
85	A5	4659	G	C5'-C4'	5.33	1.59	1.51
87	A8	136	U	O4'-C1'	5.33	1.49	1.41
39	Cq	81	HIS	N-CA	-5.33	1.38	1.46
85	A5	268	G	C2'-C1'	-5.33	1.45	1.53
85	A5	4724	A	C2'-C1'	-5.33	1.45	1.53
39	Cq	231	TYR	CA-CB	5.33	1.61	1.53
55	CU	76	VAL	CA-CB	5.33	1.61	1.54
85	A5	1206	C	C2'-C1'	-5.33	1.45	1.53
85	A5	4201	G	O4'-C1'	5.33	1.49	1.41
39	Cq	57	LYS	N-CA	5.32	1.53	1.46
41	CO	131	PRO	N-CD	5.32	1.55	1.47
54	CP	145	HIS	CA-CB	-5.32	1.45	1.53
85	A5	4414	A	C2'-C1'	5.32	1.61	1.53
85	A5	4923	C	O4'-C1'	5.32	1.49	1.41
85	A5	4566	U	C2'-C1'	-5.32	1.45	1.53
4	AK	36	ALA	CA-C	5.32	1.59	1.53
46	CN	79	ALA	CA-CB	-5.32	1.44	1.53
85	A5	287	U	O4'-C1'	5.32	1.49	1.41
85	A5	737	C	O4'-C1'	5.32	1.49	1.41
85	A5	3774	A	O4'-C1'	5.32	1.49	1.41
85	A5	4264	G	O4'-C1'	5.32	1.49	1.41
49	CQ	142	PRO	N-CD	5.32	1.55	1.47
85	A5	1257	A	O4'-C1'	5.32	1.49	1.41
27	AE	165	GLU	N-CA	-5.32	1.40	1.46
36	B2	1448	A	O4'-C1'	5.32	1.49	1.41
49	CQ	6	ARG	CA-C	5.32	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1533	A	C2'-C1'	-5.31	1.45	1.53
36	B2	33	G	O4'-C1'	5.31	1.49	1.41
36	B2	1058	A	C2'-C1'	-5.31	1.45	1.53
44	CM	4	ARG	N-CA	-5.31	1.39	1.46
85	A5	418	A	O4'-C1'	5.31	1.49	1.41
85	A5	1406	G	O4'-C1'	-5.31	1.33	1.41
85	A5	4541	G	C2'-C1'	5.31	1.61	1.53
85	A5	238	C	C2'-C1'	-5.31	1.45	1.53
36	B2	418	A	O4'-C1'	5.31	1.49	1.41
36	B2	1022	U	O3'-P	-5.31	1.53	1.61
36	B2	1070	A	O4'-C1'	5.31	1.49	1.41
85	A5	327	U	C2'-C1'	5.31	1.61	1.53
85	A5	2624	G	O4'-C1'	5.31	1.49	1.41
85	A5	4728	U	C2'-C1'	5.31	1.61	1.53
45	Ca	52	TYR	CB-CG	-5.31	1.40	1.51
85	A5	1644	C	O4'-C1'	5.31	1.49	1.41
85	A5	2839	U	C2'-C1'	-5.31	1.45	1.53
87	A8	117	C	C2'-C1'	-5.31	1.45	1.53
36	B2	6	G	C2'-C1'	-5.30	1.45	1.53
36	B2	1668	U	P-O5'	-5.30	1.51	1.59
82	CG	86	ALA	C-O	-5.30	1.17	1.24
85	A5	2622	G	C2'-C1'	5.30	1.61	1.53
85	A5	4231	C	O4'-C1'	5.30	1.49	1.41
28	AC	55	ALA	C-O	-5.30	1.18	1.24
36	B2	428	U	C2'-C1'	5.30	1.61	1.53
36	B2	1136	U	O4'-C1'	5.30	1.49	1.41
36	B2	1391	C	C2'-C1'	-5.30	1.45	1.53
85	A5	1602	U	O4'-C1'	5.30	1.49	1.41
27	AE	133	THR	N-CA	5.30	1.52	1.46
31	AH	119	SER	C-N	-5.30	1.26	1.33
36	B2	1082	A	O4'-C1'	5.30	1.49	1.41
36	B2	1297	U	C2'-C1'	5.30	1.61	1.53
85	A5	5027	C	C2'-C1'	-5.30	1.45	1.53
31	AH	110	THR	C-N	5.30	1.40	1.33
32	AW	129	PHE	CA-C	-5.30	1.46	1.52
39	Cq	56	GLY	C-N	5.30	1.41	1.33
36	B2	526	A	C2'-C1'	-5.29	1.45	1.53
87	A8	9	A	C2'-C1'	-5.29	1.45	1.53
36	B2	864	A	C2'-C1'	-5.29	1.45	1.53
63	CB	17	LEU	N-CA	5.29	1.53	1.46
85	A5	2542	G	C2'-C1'	5.29	1.61	1.53
36	B2	1486	A	P-O5'	-5.29	1.51	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	CL	128	PRO	N-CD	5.29	1.55	1.47
53	CT	30	TYR	CA-CB	-5.29	1.45	1.53
16	AA	188	THR	CA-CB	-5.29	1.44	1.53
42	CL	164	GLU	CA-C	5.29	1.59	1.52
69	Cg	28	ASN	CA-CB	5.29	1.60	1.53
78	Co	13	LYS	CA-CB	-5.29	1.46	1.53
85	A5	2721	G	O4'-C1'	5.29	1.49	1.41
43	CV	101	ASN	CA-CB	-5.28	1.45	1.53
85	A5	2260	C	O4'-C1'	5.28	1.49	1.41
85	A5	3606	U	O4'-C1'	5.28	1.49	1.41
85	A5	4542	U	C2'-C1'	-5.28	1.45	1.53
85	A5	242	U	C2'-C1'	-5.28	1.45	1.53
85	A5	2392	C	C2'-C1'	-5.28	1.45	1.53
85	A5	2448	G	O4'-C1'	-5.28	1.33	1.41
85	A5	2565	A	C2'-C1'	5.28	1.61	1.53
85	A5	3672	G	C2'-C1'	-5.28	1.45	1.53
38	Cz	26	ARG	CA-CB	-5.28	1.44	1.53
85	A5	279	A	C2'-C1'	-5.28	1.45	1.53
36	B2	1097	G	O4'-C1'	-5.28	1.33	1.41
66	Cd	122	VAL	CA-C	5.28	1.59	1.52
85	A5	1165	G	C2'-C1'	-5.28	1.45	1.53
85	A5	1940	G	O4'-C1'	5.28	1.49	1.41
16	AA	96	ALA	C-N	-5.28	1.23	1.33
37	BC	52	G	O4'-C1'	5.28	1.49	1.41
85	A5	1373	A	O3'-P	-5.28	1.53	1.61
85	A5	2304	U	O4'-C1'	-5.28	1.34	1.42
85	A5	4340	U	O4'-C1'	5.28	1.49	1.41
85	A5	4516	G	C2'-C1'	-5.28	1.45	1.53
36	B2	937	C	C2'-C1'	-5.27	1.45	1.53
85	A5	1627	G	C2'-C1'	-5.27	1.45	1.53
85	A5	1840	G	O4'-C1'	5.27	1.49	1.41
85	A5	2453	A	C2'-C1'	-5.27	1.45	1.53
29	AG	170	ARG	NE-CZ	5.27	1.38	1.33
85	A5	3774	A	C2'-C1'	-5.27	1.45	1.53
86	A7	4	U	O4'-C1'	5.27	1.49	1.41
58	CW	23	ARG	N-CA	-5.27	1.38	1.45
85	A5	2486	G	O4'-C1'	5.27	1.49	1.41
85	A5	4141	G	O4'-C1'	5.27	1.49	1.41
1	Az	5	THR	N-CA	5.27	1.52	1.45
8	AS	91	LYS	CA-C	-5.27	1.46	1.52
36	B2	366	U	O4'-C1'	5.27	1.49	1.41
85	A5	2568	C	O4'-C1'	5.27	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	941	C	C2'-C1'	-5.27	1.45	1.53
36	B2	1464	C	C2'-C1'	-5.27	1.45	1.53
85	A5	4461	C	C2'-C1'	-5.27	1.45	1.53
49	CQ	15	ARG	CA-CB	-5.26	1.46	1.53
85	A5	987	C	C2'-C1'	-5.26	1.45	1.53
85	A5	1419	G	C5'-C4'	5.26	1.59	1.51
85	A5	2570	U	O4'-C1'	5.26	1.49	1.41
36	B2	1036	A	O4'-C1'	5.26	1.49	1.41
36	B2	1662	U	O4'-C1'	5.26	1.49	1.41
53	CT	79	GLN	N-CA	-5.26	1.39	1.46
60	Cr	37	SER	N-CA	5.26	1.52	1.46
85	A5	2074	C	C2'-C1'	-5.26	1.45	1.53
85	A5	4094	G	C2'-C1'	5.26	1.61	1.53
66	Cd	116	ASN	CA-C	5.26	1.59	1.52
85	A5	1618	G	O4'-C1'	5.26	1.49	1.41
85	A5	1627	G	O4'-C1'	5.26	1.49	1.41
36	B2	1438	A	C2'-C1'	5.26	1.61	1.53
39	Cq	62	ARG	NE-CZ	5.26	1.38	1.33
85	A5	1928	C	C2'-C1'	-5.26	1.45	1.53
85	A5	2760	G	O3'-P	-5.26	1.53	1.61
85	A5	5020	G	C2'-C1'	-5.26	1.45	1.53
36	B2	499	G	C2'-C1'	-5.26	1.45	1.53
85	A5	4435	U	C2'-C1'	-5.26	1.45	1.53
86	A7	35	U	C2'-C1'	-5.26	1.45	1.53
54	CP	109	VAL	CA-CB	5.25	1.60	1.54
85	A5	4148	C	O4'-C1'	5.25	1.49	1.41
85	A5	4695	C	O4'-C1'	5.25	1.49	1.41
85	A5	2771	G	O4'-C1'	5.25	1.49	1.41
85	A5	2893	U	C2'-C1'	-5.25	1.45	1.53
85	A5	195	C	O4'-C1'	5.25	1.49	1.41
85	A5	443	G	C2'-C1'	-5.25	1.45	1.53
85	A5	4333	C	O4'-C1'	5.25	1.49	1.41
85	A5	5010	U	C2'-C1'	5.25	1.61	1.53
36	B2	1431	G	O4'-C1'	5.25	1.49	1.41
80	CH	41	ILE	C-O	-5.25	1.17	1.24
85	A5	253	G	C2'-C1'	-5.25	1.45	1.53
50	CR	89	MET	N-CA	5.25	1.53	1.46
85	A5	2252	G	O3'-P	-5.25	1.53	1.61
85	A5	4063	U	O4'-C1'	5.25	1.49	1.41
60	Cr	82	ILE	CA-CB	5.24	1.61	1.54
85	A5	447	C	O4'-C1'	5.24	1.49	1.41
85	A5	5043	A	O4'-C1'	5.24	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	984	C	C2'-C1'	-5.24	1.45	1.53
85	A5	2390	G	O3'-P	-5.24	1.53	1.61
40	CK	29	ALA	CA-C	-5.24	1.46	1.52
40	CK	104	ILE	CB-CG1	5.24	1.64	1.53
85	A5	1746	A	O4'-C1'	5.24	1.49	1.41
85	A5	2107	C	O4'-C1'	5.24	1.49	1.42
16	AA	53	ARG	N-CA	-5.23	1.40	1.46
29	AG	43	GLU	CA-C	-5.23	1.45	1.52
57	CY	93	THR	CA-C	5.23	1.59	1.52
74	CC	157	LYS	C-N	5.23	1.40	1.34
85	A5	1910	G	O4'-C1'	5.23	1.49	1.41
85	A5	2684	C	P-O5'	-5.23	1.51	1.59
36	B2	1037	G	C2'-C1'	-5.23	1.45	1.53
37	BC	47	C	C2'-C1'	-5.23	1.45	1.53
85	A5	3675	G	O4'-C1'	5.23	1.49	1.41
33	AI	55	TYR	CA-C	-5.23	1.46	1.52
81	CE	134	SER	C-N	5.23	1.40	1.33
85	A5	2433	G	C2'-C1'	-5.23	1.45	1.53
85	A5	4063	U	C2'-C1'	-5.23	1.45	1.53
46	CN	198	LEU	N-CA	-5.22	1.39	1.46
56	CX	155	ILE	N-CA	5.22	1.53	1.46
85	A5	1354	A	O4'-C1'	5.22	1.49	1.42
85	A5	1842	G	O4'-C1'	5.22	1.49	1.41
87	A8	27	U	O4'-C1'	5.22	1.49	1.41
36	B2	35	C	C2'-C1'	-5.22	1.45	1.53
36	B2	1149	A	C2'-C1'	-5.22	1.45	1.53
36	B2	1780	G	O4'-C1'	5.22	1.49	1.41
46	CN	197	THR	CA-CB	-5.22	1.43	1.53
85	A5	2324	C	O4'-C1'	5.22	1.49	1.41
85	A5	2794	C	C2'-C1'	5.22	1.60	1.53
10	AN	132	LYS	CA-C	-5.22	1.45	1.52
68	Cf	18	LEU	C-O	-5.22	1.17	1.24
85	A5	3679	U	O4'-C1'	5.22	1.49	1.42
54	CP	78	TRP	C-O	-5.22	1.16	1.23
74	CC	90	GLY	C-O	-5.22	1.16	1.23
54	CP	138	PRO	N-CD	5.22	1.55	1.47
85	A5	435	A	O4'-C1'	5.21	1.49	1.41
85	A5	2482	C	O4'-C1'	5.21	1.49	1.41
85	A5	4246	G	C2'-C1'	5.21	1.61	1.53
25	Af	86	THR	N-CA	5.21	1.52	1.46
31	AH	9	VAL	CA-C	5.21	1.60	1.52
36	B2	59	U	C2'-C1'	5.21	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	345	U	O4'-C1'	5.21	1.49	1.41
36	B2	1745	A	O4'-C1'	-5.21	1.33	1.41
85	A5	910	G	O4'-C1'	5.21	1.49	1.41
85	A5	4629	U	C2'-C1'	5.21	1.61	1.53
85	A5	5053	U	C2'-C1'	5.21	1.60	1.53
85	A5	3671	G	O4'-C1'	5.21	1.49	1.41
28	AC	134	ASN	C-O	-5.21	1.18	1.23
36	B2	642	U	C2'-C1'	-5.21	1.45	1.53
85	A5	2083	C	C2'-C1'	-5.21	1.45	1.53
85	A5	3809	G	O4'-C1'	-5.21	1.34	1.42
2	Ag	145	GLU	CA-C	-5.21	1.46	1.52
29	AG	121	ILE	CA-CB	-5.21	1.47	1.54
36	B2	629	A	C2'-C1'	5.21	1.60	1.53
36	B2	1041	G	O4'-C1'	5.21	1.49	1.41
36	B2	1810	U	O4'-C1'	5.21	1.49	1.41
36	B2	1823	A	O5'-C5'	-5.21	1.35	1.42
65	Cc	91	VAL	N-CA	-5.21	1.40	1.46
85	A5	379	G	C2'-C1'	-5.21	1.45	1.53
85	A5	3748	A	O4'-C1'	5.21	1.49	1.41
45	Ca	98	ALA	C-N	5.21	1.39	1.33
85	A5	1997	U	O4'-C1'	5.21	1.49	1.41
85	A5	4747	C	O4'-C1'	5.21	1.49	1.41
1	Az	807	GLN	N-CA	-5.20	1.39	1.46
24	Ae	25	LYS	N-CA	5.20	1.52	1.46
64	CF	23	ARG	CA-CB	5.20	1.62	1.53
85	A5	3857	G	C2'-C1'	-5.20	1.45	1.53
85	A5	4142	C	C2'-C1'	-5.20	1.45	1.53
11	AL	103	GLU	N-CA	-5.20	1.39	1.46
36	B2	696	G	C2'-C1'	-5.20	1.45	1.53
85	A5	1163	G	O4'-C1'	5.20	1.49	1.41
85	A5	1508	A	C2'-C1'	-5.20	1.45	1.53
85	A5	70	A	C2'-C1'	5.20	1.60	1.53
85	A5	503	C	C2'-C1'	-5.20	1.45	1.53
87	A8	150	C	O4'-C1'	5.20	1.49	1.41
13	AP	49	LEU	N-CA	5.20	1.52	1.46
36	B2	884	C	C2'-C1'	-5.20	1.45	1.53
85	A5	63	G	O4'-C1'	5.20	1.49	1.41
85	A5	4752	U	O4'-C1'	-5.20	1.34	1.42
87	A8	44	A	O4'-C1'	5.20	1.49	1.41
36	B2	822	U	C2'-C1'	-5.19	1.45	1.53
85	A5	1697	G	C5'-C4'	5.19	1.59	1.51
1	Az	827	ASN	CA-C	-5.19	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	AG	131	ARG	CD-NE	5.19	1.53	1.46
61	Ch	115	PRO	N-CD	5.19	1.55	1.47
85	A5	2539	C	C2'-C1'	-5.19	1.45	1.53
60	Cr	42	GLY	C-O	-5.19	1.17	1.23
28	AC	176	LYS	C-N	-5.19	1.27	1.33
49	CQ	4	ASP	CA-C	-5.19	1.45	1.52
85	A5	2399	G	O4'-C1'	-5.19	1.33	1.41
1	Az	496	VAL	CA-CB	-5.18	1.47	1.54
33	AI	30	GLY	CA-C	5.18	1.57	1.51
36	B2	175	A	O4'-C1'	5.18	1.49	1.41
81	CE	243	THR	C-N	5.18	1.41	1.33
85	A5	644	G	C2'-C1'	-5.18	1.45	1.53
36	B2	480	G	C2'-C1'	-5.18	1.45	1.53
85	A5	1510	G	C2'-C1'	-5.18	1.45	1.53
36	B2	155	G	O4'-C1'	5.18	1.49	1.41
49	CQ	40	ASN	N-CA	5.18	1.52	1.46
53	CT	142	ARG	N-CA	-5.18	1.40	1.46
81	CE	114	ARG	C-N	5.18	1.41	1.33
85	A5	2313	A	O4'-C1'	-5.18	1.33	1.41
85	A5	2374	A	O4'-C1'	5.18	1.49	1.41
78	Co	74	GLU	CG-CD	-5.18	1.39	1.52
85	A5	3902	A	O4'-C1'	5.18	1.49	1.41
36	B2	875	A	C2'-C1'	-5.17	1.45	1.53
85	A5	991	C	C2'-C1'	-5.17	1.45	1.53
85	A5	1913	C	C2'-C1'	-5.17	1.45	1.53
26	AJ	188	GLY	CA-C	5.17	1.61	1.52
36	B2	883	U	C5'-C4'	5.17	1.59	1.51
36	B2	1815	A	O4'-C1'	5.17	1.49	1.41
85	A5	2415	U	O4'-C1'	5.17	1.49	1.41
85	A5	3639	U	C2'-C1'	-5.17	1.45	1.53
55	CU	77	PRO	C-N	-5.17	1.27	1.33
36	B2	1572	C	O4'-C1'	5.17	1.49	1.41
85	A5	1080	C	O4'-C1'	5.17	1.49	1.41
70	Ci	32	ARG	CA-C	-5.17	1.46	1.52
85	A5	1450	C	O4'-C1'	5.17	1.49	1.41
85	A5	2842	G	O3'-P	-5.17	1.53	1.61
36	B2	934	G	O4'-C1'	5.16	1.49	1.41
85	A5	4479	A	O4'-C1'	5.16	1.49	1.41
36	B2	406	U	O4'-C1'	5.16	1.49	1.41
47	CI	210	ARG	NE-CZ	5.16	1.38	1.33
85	A5	1649	U	O4'-C1'	5.16	1.49	1.42
85	A5	375	G	O4'-C1'	5.16	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	1633	G	O4'-C1'	-5.16	1.33	1.41
85	A5	2463	G	O4'-C1'	5.16	1.49	1.41
85	A5	2873	U	C2'-C1'	-5.16	1.45	1.53
85	A5	3839	G	O4'-C1'	-5.16	1.34	1.42
85	A5	1518	A	O4'-C1'	5.16	1.49	1.42
85	A5	2880	U	C2'-C1'	-5.16	1.45	1.53
85	A5	323	C	C2'-C1'	-5.16	1.45	1.53
85	A5	1552	G	O4'-C1'	-5.16	1.34	1.42
36	B2	474	G	C2'-C1'	-5.16	1.45	1.53
85	A5	1509	C	C2'-C1'	-5.16	1.45	1.53
86	A7	72	U	O4'-C1'	5.16	1.49	1.41
74	CC	254	GLU	C-N	5.15	1.41	1.33
85	A5	2038	U	C2'-C1'	-5.15	1.45	1.53
26	AJ	89	GLU	CA-C	5.15	1.60	1.52
36	B2	619	A	C2'-C1'	5.15	1.61	1.53
85	A5	3775	A	C2'-C1'	5.15	1.61	1.53
36	B2	1423	C	C2'-C1'	-5.15	1.45	1.53
51	CA	197	PRO	N-CD	5.15	1.55	1.47
85	A5	4739	C	C2'-C1'	-5.15	1.45	1.53
36	B2	1359	U	C2'-C1'	5.15	1.61	1.53
85	A5	960	A	O4'-C1'	5.15	1.49	1.41
85	A5	1172	C	O4'-C1'	5.15	1.49	1.41
85	A5	1253	G	C2'-C1'	-5.15	1.45	1.53
36	B2	1176	G	O4'-C1'	5.15	1.49	1.41
85	A5	1934	A	C2'-C1'	5.15	1.61	1.53
85	A5	4449	A	O4'-C1'	-5.15	1.34	1.42
85	A5	4995	U	C2'-C1'	-5.15	1.45	1.53
36	B2	994	C	O4'-C1'	5.14	1.49	1.41
74	CC	25	PRO	N-CD	5.14	1.54	1.47
36	B2	1129	G	C2'-C1'	-5.14	1.45	1.53
49	CQ	6	ARG	N-CA	-5.14	1.39	1.46
60	Cr	30	ASN	CA-CB	-5.14	1.44	1.53
36	B2	746	C	C2'-C1'	-5.14	1.45	1.53
85	A5	2498	C	C2'-C1'	-5.14	1.45	1.53
85	A5	4372	U	C2'-C1'	-5.14	1.45	1.53
36	B2	1044	G	O4'-C1'	5.14	1.49	1.41
36	B2	1315	U	O4'-C1'	-5.14	1.33	1.41
78	Co	75	PRO	CA-C	-5.14	1.45	1.52
85	A5	1300	G	O4'-C1'	5.14	1.49	1.41
14	AT	82	ARG	NE-CZ	5.13	1.38	1.33
36	B2	1036	A	C5'-C4'	5.13	1.58	1.51
36	B2	1686	G	C2'-C1'	-5.13	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Cz	26	ARG	C-N	5.13	1.46	1.33
39	Cq	255	THR	C-N	5.13	1.40	1.33
85	A5	2878	G	O4'-C1'	5.13	1.49	1.41
1	Az	56	PHE	CB-CG	5.13	1.62	1.50
39	Cq	133	GLU	N-CA	-5.13	1.39	1.46
78	Co	12	CYS	C-N	-5.13	1.26	1.33
85	A5	678	C	C2'-C1'	-5.13	1.45	1.53
85	A5	4235	G	O3'-P	-5.13	1.53	1.61
63	CB	83	PRO	N-CD	5.13	1.54	1.47
81	CE	105	ARG	CA-C	5.13	1.58	1.52
85	A5	4573	G	C2'-C1'	-5.13	1.45	1.53
36	B2	1025	U	C2'-C1'	5.12	1.61	1.53
36	B2	1260	A	C2'-C1'	-5.12	1.45	1.53
69	Cg	78	TYR	CA-CB	-5.12	1.44	1.53
85	A5	1981	G	C2'-C1'	-5.12	1.45	1.53
85	A5	1528	U	C2'-C1'	-5.12	1.45	1.53
85	A5	4751	G	O4'-C1'	-5.12	1.33	1.41
5	AO	150	ARG	NE-CZ	5.12	1.38	1.33
36	B2	684	G	C2'-C1'	-5.12	1.45	1.53
60	Cr	43	LEU	C-O	-5.12	1.17	1.24
85	A5	2798	A	O3'-P	-5.12	1.53	1.61
87	A8	98	C	C2'-C1'	-5.12	1.45	1.53
36	B2	606	G	C2'-C1'	-5.12	1.45	1.53
36	B2	1389	C	P-O5'	-5.12	1.52	1.59
36	B2	1596	U	O4'-C1'	5.12	1.49	1.41
36	B2	1851	A	O4'-C1'	5.12	1.49	1.41
85	A5	1626	G	O3'-P	-5.12	1.53	1.61
85	A5	2376	A	O4'-C1'	5.12	1.49	1.41
36	B2	1315	U	C5'-C4'	5.12	1.58	1.51
4	AK	80	ARG	NE-CZ	5.12	1.38	1.33
36	B2	1252	C	O4'-C1'	5.12	1.49	1.41
36	B2	1623	A	O4'-C1'	-5.12	1.33	1.41
81	CE	101	ASN	N-CA	5.12	1.52	1.46
36	B2	1811	C	C2'-C1'	-5.11	1.45	1.53
40	CK	44	ASP	CA-C	-5.11	1.46	1.52
81	CE	110	ARG	CD-NE	5.11	1.53	1.46
36	B2	566	U	C2'-C1'	5.11	1.61	1.53
85	A5	122	U	O3'-P	-5.11	1.53	1.61
85	A5	3680	U	O4'-C1'	5.11	1.49	1.41
85	A5	3706	C	C2'-C1'	-5.11	1.45	1.53
36	B2	448	A	C2'-C1'	5.11	1.60	1.53
70	Ci	7	MET	CA-C	-5.11	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	B2	1519	U	C2'-C1'	5.11	1.60	1.53
85	A5	2047	A	O4'-C1'	5.11	1.49	1.42
36	B2	65	C	C2'-C1'	5.11	1.61	1.53
36	B2	1398	G	O4'-C1'	5.11	1.49	1.41
60	Cr	80	THR	C-N	5.11	1.40	1.33
85	A5	2683	C	O4'-C1'	5.11	1.49	1.41
11	AL	19	ASN	C-N	-5.10	1.26	1.33
16	AA	63	ARG	N-CA	-5.10	1.40	1.46
70	Ci	4	ARG	CA-CB	5.10	1.62	1.53
33	AI	6	ASP	CA-C	-5.10	1.46	1.52
37	BC	15	G	O4'-C1'	5.10	1.49	1.41
62	Cb	30	GLU	C-O	-5.10	1.17	1.23
85	A5	4133	C	C2'-C1'	-5.10	1.45	1.53
69	Cg	77	ALA	CA-C	-5.10	1.45	1.53
85	A5	1555	G	O4'-C1'	5.10	1.49	1.41
85	A5	4627	U	O3'-P	-5.10	1.53	1.61
36	B2	739	C	C2'-C1'	-5.10	1.45	1.53
36	B2	809	A	O4'-C1'	5.10	1.49	1.41
64	CF	103	PRO	N-CD	5.10	1.54	1.47
85	A5	1986	U	C2'-C1'	-5.10	1.45	1.53
85	A5	2083	C	O4'-C1'	5.10	1.49	1.41
85	A5	3618	C	C2'-C1'	5.10	1.60	1.53
85	A5	4102	C	C2'-C1'	-5.10	1.45	1.53
36	B2	1477	U	O4'-C1'	5.10	1.49	1.41
58	CW	76	VAL	CA-C	5.10	1.59	1.52
85	A5	4037	C	C2'-C1'	-5.10	1.45	1.53
4	AK	30	PRO	C-N	-5.09	1.27	1.33
36	B2	1287	A	C2'-C1'	5.09	1.60	1.53
41	CO	186	GLU	C-N	5.09	1.40	1.33
85	A5	221	C	C2'-C1'	-5.09	1.45	1.53
85	A5	1342	A	C2'-C1'	-5.09	1.45	1.53
85	A5	1968	G	C2'-C1'	-5.09	1.45	1.53
85	A5	2085	G	O4'-C1'	-5.09	1.34	1.41
85	A5	2607	C	C2'-C1'	-5.09	1.45	1.53
85	A5	4047	A	C2'-C1'	-5.09	1.45	1.53
85	A5	4493	U	C2'-C1'	5.09	1.60	1.53
86	A7	11	A	O4'-C1'	5.09	1.49	1.41
33	AI	19	LYS	CA-C	-5.09	1.46	1.52
42	CL	159	ASN	CA-C	5.09	1.59	1.52
59	CZ	112	ARG	CA-C	-5.09	1.46	1.52
85	A5	104	G	C2'-C1'	-5.09	1.45	1.53
85	A5	4520	G	C2'-C1'	-5.09	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4863	G	C2'-C1'	5.09	1.60	1.53
36	B2	1248	U	C2'-C1'	-5.09	1.45	1.53
85	A5	3889	G	C2'-C1'	-5.09	1.45	1.53
27	AE	171	ASP	CA-CB	-5.09	1.44	1.53
85	A5	3911	C	O4'-C1'	5.09	1.49	1.41
85	A5	26	C	C2'-C1'	-5.09	1.45	1.53
85	A5	266	C	C2'-C1'	-5.09	1.45	1.53
85	A5	4723	A	C2'-C1'	-5.09	1.45	1.53
49	CQ	11	ARG	N-CA	-5.08	1.39	1.46
85	A5	1418	C	O4'-C1'	5.08	1.49	1.41
85	A5	4864	U	O4'-C1'	5.08	1.49	1.41
36	B2	823	U	O4'-C1'	-5.08	1.34	1.41
85	A5	1675	C	C2'-C1'	-5.08	1.45	1.53
86	A7	111	C	C2'-C1'	-5.08	1.45	1.53
2	Ag	94	THR	N-CA	-5.08	1.39	1.46
85	A5	4765	G	O4'-C1'	5.08	1.49	1.41
36	B2	1171	G	C5'-C4'	5.08	1.58	1.51
39	Cq	206	ILE	CA-CB	5.08	1.61	1.54
85	A5	960	A	C2'-C1'	-5.08	1.45	1.53
15	AB	221	PRO	N-CD	5.08	1.54	1.47
20	Aa	58	VAL	CA-C	-5.08	1.46	1.52
85	A5	4579	U	O4'-C1'	5.08	1.49	1.41
85	A5	4688	C	C2'-C1'	-5.08	1.45	1.53
14	AT	46	ALA	CA-C	-5.08	1.46	1.52
87	A8	91	A	C2'-C1'	-5.08	1.45	1.53
24	Ae	21	LYS	CA-C	5.07	1.59	1.52
52	CS	23	HIS	N-CA	-5.07	1.40	1.46
85	A5	1693	U	C2'-C1'	-5.07	1.45	1.53
85	A5	1955	G	C2'-C1'	-5.07	1.45	1.53
85	A5	2532	C	C2'-C1'	-5.07	1.45	1.53
85	A5	3747	A	O4'-C1'	5.07	1.49	1.42
36	B2	1178	U	C2'-C1'	-5.07	1.45	1.53
85	A5	4920	C	O4'-C1'	5.07	1.49	1.41
63	CB	32	PHE	CD2-CE2	-5.07	1.23	1.38
85	A5	4311	A	O4'-C1'	5.07	1.49	1.41
85	A5	5040	U	C2'-C1'	-5.07	1.45	1.53
36	B2	1148	A	C2'-C1'	5.07	1.60	1.53
48	CD	257	PRO	N-CD	5.07	1.54	1.47
36	B2	918	U	O4'-C1'	5.07	1.49	1.41
85	A5	490	C	O4'-C1'	5.07	1.49	1.41
85	A5	1804	A	C2'-C1'	-5.07	1.45	1.53
85	A5	2852	U	C5'-C4'	5.07	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	A5	4427	G	C2'-C1'	-5.07	1.45	1.53
4	AK	55	ARG	NE-CZ	5.07	1.38	1.33
63	CB	268	ARG	CD-NE	5.07	1.53	1.46
49	CQ	6	ARG	CZ-NH2	5.06	1.40	1.33
74	CC	172	LYS	CA-C	-5.06	1.46	1.52
85	A5	4416	G	O4'-C1'	5.06	1.49	1.41
28	AC	114	LYS	CA-C	5.06	1.58	1.52
36	B2	1260	A	O3'-P	-5.06	1.53	1.61
48	CD	256	LYS	CA-C	5.06	1.59	1.52
85	A5	2480	G	C2'-C1'	-5.06	1.45	1.53
1	Az	495	ARG	C-N	-5.06	1.26	1.33
22	Ac	7	GLN	N-CA	5.06	1.51	1.46
39	Cq	162	LYS	C-O	-5.06	1.17	1.23
85	A5	14	C	O4'-C1'	5.06	1.49	1.41
37	BC	71	U	O4'-C1'	5.06	1.49	1.41
85	A5	264	C	C2'-C1'	-5.06	1.45	1.53
85	A5	4405	G	O4'-C1'	5.06	1.49	1.41
27	AE	31	PRO	N-CD	5.06	1.54	1.47
36	B2	182	C	C2'-C1'	-5.05	1.45	1.53
85	A5	4408	G	O4'-C1'	5.05	1.49	1.41
5	AO	143	LYS	CA-C	-5.05	1.46	1.52
8	AS	94	LYS	C-N	-5.05	1.26	1.33
36	B2	1307	U	C2'-C1'	5.05	1.60	1.53
82	CG	179	VAL	C-N	-5.05	1.27	1.33
85	A5	5044	A	C2'-C1'	-5.05	1.45	1.53
26	AJ	124	HIS	CA-C	-5.05	1.46	1.52
5	AO	129	ILE	C-O	-5.05	1.18	1.24
36	B2	599	A	O4'-C1'	5.05	1.49	1.41
81	CE	131	LYS	CA-CB	5.05	1.61	1.53
29	AG	158	VAL	N-CA	-5.04	1.40	1.46
85	A5	4080	C	C2'-C1'	-5.04	1.45	1.53
36	B2	335	G	C2'-C1'	5.04	1.60	1.53
39	Cq	267	ALA	CA-C	-5.04	1.46	1.52
60	Cr	30	ASN	N-CA	-5.04	1.39	1.46
85	A5	1178	G	C2'-C1'	-5.04	1.45	1.53
85	A5	1919	G	O4'-C1'	5.04	1.49	1.42
85	A5	2725	A	C2'-C1'	5.04	1.60	1.53
85	A5	1874	A	C2'-C1'	-5.04	1.45	1.53
85	A5	2341	A	O4'-C1'	5.04	1.49	1.41
36	B2	657	U	O4'-C1'	5.04	1.49	1.41
36	B2	992	A	C2'-C1'	-5.04	1.45	1.53
85	A5	1569	U	C2'-C1'	-5.04	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Cq	255	THR	CB-OG1	-5.04	1.35	1.43
36	B2	400	C	C2'-C1'	-5.03	1.45	1.53
57	CY	51	LYS	N-CA	5.03	1.52	1.46
85	A5	1279	A	O4'-C1'	5.03	1.49	1.41
85	A5	2646	C	O4'-C1'	5.03	1.49	1.41
85	A5	4776	G	O4'-C1'	5.03	1.49	1.41
85	A5	4323	A	O4'-C1'	5.03	1.49	1.41
85	A5	4516	G	O4'-C1'	5.03	1.49	1.41
36	B2	234	C	C2'-C1'	-5.03	1.45	1.53
46	CN	49	ARG	N-CA	-5.03	1.39	1.46
85	A5	26	C	O3'-P	-5.03	1.53	1.61
85	A5	104	G	P-O5'	-5.03	1.52	1.59
85	A5	977	C	C2'-C1'	-5.03	1.45	1.53
85	A5	1196	G	O4'-C1'	5.03	1.49	1.41
85	A5	1611	C	O4'-C1'	5.03	1.49	1.42
86	A7	20	U	C2'-C1'	-5.03	1.45	1.53
36	B2	631	U	C2'-C1'	-5.03	1.45	1.53
61	Ch	40	ALA	N-CA	5.03	1.52	1.46
85	A5	209	U	O4'-C1'	5.03	1.49	1.42
85	A5	1103	C	C2'-C1'	-5.03	1.45	1.53
36	B2	1528	G	O4'-C1'	-5.02	1.34	1.41
82	CG	108	GLN	N-CA	-5.02	1.40	1.46
85	A5	2813	A	O4'-C1'	-5.02	1.34	1.41
85	A5	4719	G	C2'-C1'	-5.02	1.45	1.53
85	A5	714	G	O3'-P	-5.02	1.53	1.61
85	A5	2013	A	C2'-C1'	-5.02	1.45	1.53
85	A5	3822	U	C2'-C1'	-5.02	1.45	1.53
85	A5	4674	C	C2'-C1'	-5.02	1.45	1.53
33	AI	155	ASN	CA-C	-5.02	1.46	1.52
36	B2	68	A	O4'-C1'	5.02	1.49	1.41
36	B2	963	A	C2'-C1'	-5.02	1.45	1.53
36	B2	1077	A	O4'-C1'	5.02	1.49	1.41
37	BC	42	G	C2'-C1'	-5.02	1.45	1.53
46	CN	80	THR	N-CA	-5.02	1.39	1.46
85	A5	1221	G	O4'-C1'	-5.02	1.34	1.41
85	A5	3673	C	C5'-C4'	5.02	1.58	1.51
36	B2	1001	A	C2'-C1'	5.02	1.60	1.53
36	B2	1236	G	C3'-C2'	5.01	1.60	1.52
36	B2	1328	G	O4'-C1'	5.01	1.49	1.41
58	CW	28	VAL	CA-C	-5.01	1.46	1.52
85	A5	2587	A	O4'-C1'	-5.01	1.34	1.42
85	A5	4899	G	O4'-C1'	5.01	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
86	A7	20	U	O4'-C1'	5.01	1.49	1.41
36	B2	1036	A	C2'-C1'	-5.01	1.45	1.53
36	B2	1644	C	O4'-C1'	5.01	1.49	1.41
36	B2	1736	G	C2'-C1'	-5.01	1.45	1.53
36	B2	291	G	O4'-C1'	5.01	1.49	1.41
85	A5	1923	A	O4'-C1'	5.01	1.49	1.41
85	A5	4439	U	C2'-C1'	-5.01	1.45	1.53
35	Ah	150	GLU	CA-C	5.01	1.59	1.52
85	A5	3880	G	O4'-C1'	5.01	1.49	1.41
85	A5	4085	A	O3'-P	-5.01	1.53	1.61
85	A5	4952	G	O4'-C1'	5.01	1.49	1.41
86	A7	50	A	O4'-C1'	5.01	1.49	1.41
87	A8	90	C	C2'-C1'	-5.01	1.45	1.53
85	A5	452	A	C2'-C1'	5.01	1.60	1.53
85	A5	2789	A	O4'-C1'	-5.01	1.34	1.42
36	B2	1288	U	C5'-C4'	5.00	1.58	1.51
85	A5	4637	G	C2'-C1'	-5.00	1.45	1.53
85	A5	284	G	O4'-C1'	-5.00	1.34	1.41
85	A5	981	C	C2'-C1'	5.00	1.60	1.53
85	A5	1742	A	C2'-C1'	-5.00	1.45	1.53
85	A5	3871	A	O4'-C1'	5.00	1.49	1.41
85	A5	4434	C	C2'-C1'	-5.00	1.45	1.53

All (11092) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	CB	248	LEU	O-C-N	-45.08	60.47	122.68
1	Az	768	GLY	O-C-N	43.83	156.90	122.71
40	CK	1	MET	CA-C-N	-40.60	78.56	120.38
40	CK	1	MET	C-N-CA	-40.60	78.56	120.38
40	CK	2	PRO	N-CA-CB	-36.52	67.65	103.08
49	CQ	1	MET	CA-C-N	35.37	159.47	122.69
49	CQ	1	MET	C-N-CA	35.37	159.47	122.69
20	Aa	97	PRO	N-CA-C	32.68	150.57	110.70
36	B2	1780	G	P-O3'-C3'	30.29	165.63	120.20
23	AD	5	ILE	O-C-N	-28.91	97.82	122.97
38	Cz	28	PHE	CA-C-O	-28.63	89.23	120.43
31	AH	109	ARG	NE-CZ-NH2	-28.48	93.57	119.20
38	Cz	28	PHE	CA-CB-CG	28.05	141.84	113.80
81	CE	126	LEU	CA-C-N	-27.94	81.20	120.87
81	CE	126	LEU	C-N-CA	-27.94	81.20	120.87
38	Cz	28	PHE	N-CA-C	27.37	153.85	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	CE	30	GLY	O-C-N	-27.18	87.36	122.70
58	CW	71	ARG	O-C-N	-26.94	86.75	122.59
40	CK	2	PRO	CB-CA-C	26.48	143.23	110.92
82	CG	103	ARG	CA-C-N	26.38	152.82	119.84
82	CG	103	ARG	C-N-CA	26.38	152.82	119.84
20	Aa	97	PRO	CB-CA-C	-26.17	78.99	110.92
48	CD	270	LYS	N-CA-C	26.04	138.93	111.07
85	A5	1274	A	P-O3'-C3'	26.01	159.22	120.20
74	CC	323	ARG	CB-CA-C	-25.95	69.66	110.92
36	B2	24	C	C1'-C2'-O2'	-25.94	72.89	111.80
63	CB	298	LEU	CA-C-O	25.66	134.50	118.33
50	CR	143	HIS	ND1-CE1-NE2	-25.61	82.79	108.40
85	A5	2124	G	P-O3'-C3'	25.57	158.55	120.20
1	Az	111	PHE	CA-CB-CG	25.48	139.28	113.80
85	A5	2760	G	P-O3'-C3'	25.39	158.28	120.20
85	A5	2546	G	P-O3'-C3'	24.87	157.51	120.20
85	A5	2489	C	C4'-C3'-O3'	24.61	149.92	113.00
26	AJ	146	SER	O-C-N	-24.45	86.51	121.72
1	Az	267	ASP	N-CA-C	24.23	136.01	108.14
21	Ab	36	LYS	N-CA-C	24.20	137.27	111.14
48	CD	170	GLY	O-C-N	-24.13	91.33	122.70
85	A5	5060	A	P-O3'-C3'	23.96	156.14	120.20
82	CG	243	GLY	CA-C-N	-23.84	90.04	119.84
82	CG	243	GLY	C-N-CA	-23.84	90.04	119.84
38	Cz	209	THR	O-C-N	-23.73	91.03	122.59
85	A5	1442	C	P-O3'-C3'	23.73	155.79	120.20
87	A8	111	U	C4'-C3'-O3'	-23.70	73.86	109.40
37	BC	16	C	P-O3'-C3'	23.65	155.68	120.20
63	CB	298	LEU	N-CA-C	-23.63	86.06	108.75
85	A5	1360	G	P-O3'-C3'	23.50	155.44	120.20
40	CK	1	MET	O-C-N	23.34	160.34	123.00
8	AS	40	TYR	N-CA-C	23.18	135.88	111.07
63	CB	248	LEU	CA-C-N	23.10	161.26	123.37
63	CB	248	LEU	C-N-CA	23.10	161.26	123.37
85	A5	971	U	P-O3'-C3'	23.10	154.85	120.20
42	CL	166	ALA	CA-C-N	23.05	157.66	122.17
42	CL	166	ALA	C-N-CA	23.05	157.66	122.17
81	CE	118	THR	O-C-N	-23.00	92.00	122.59
60	Cr	112	ARG	CD-NE-CZ	-22.84	92.43	124.40
3	AU	93	SER	CA-C-N	-22.81	91.33	119.84
3	AU	93	SER	C-N-CA	-22.81	91.33	119.84
36	B2	1669	G	P-O5'-C5'	22.73	155.00	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3968	U	P-O3'-C3'	22.61	154.12	120.20
73	Cl	5	LYS	O-C-N	22.46	148.93	123.10
52	CS	175	PHE	CA-C-O	-22.43	97.87	121.20
35	Ah	294	LYS	CA-C-N	22.42	156.91	121.26
35	Ah	294	LYS	C-N-CA	22.42	156.91	121.26
36	B2	887	U	P-O3'-C3'	22.33	153.70	120.20
85	A5	955	G	P-O3'-C3'	22.22	153.53	120.20
33	AI	43	ILE	O-C-N	-22.18	98.60	123.00
53	CT	150	LEU	O-C-N	-22.17	97.94	123.22
74	CC	323	ARG	N-CA-CB	22.05	143.34	109.82
85	A5	183	C	P-O3'-C3'	22.01	153.21	120.20
38	Cz	100	VAL	CA-C-O	-21.77	93.57	120.78
85	A5	4989	U	P-O3'-C3'	21.70	152.74	120.20
36	B2	1823	A	P-O3'-C3'	21.51	152.46	120.20
28	AC	108	LYS	CA-C-N	21.50	146.00	122.14
28	AC	108	LYS	C-N-CA	21.50	146.00	122.14
36	B2	1084	A	P-O3'-C3'	21.48	152.42	120.20
54	CP	109	VAL	N-CA-C	21.42	130.98	110.42
85	A5	711	A	P-O3'-C3'	21.41	152.32	120.20
85	A5	2761	U	P-O3'-C3'	21.35	152.22	120.20
15	AB	41	ILE	CB-CA-C	21.29	135.01	111.59
40	CK	2	PRO	N-CA-C	21.28	136.66	110.70
36	B2	531	A	P-O3'-C3'	21.07	151.81	120.20
85	A5	2121	C	C4'-C3'-O3'	-21.04	81.45	113.00
38	Cz	28	PHE	CB-CA-C	-20.86	75.33	109.75
38	Cz	99	LEU	CA-C-O	-20.65	90.98	120.51
60	Cr	106	LEU	CA-C-O	-20.63	99.14	120.80
36	B2	750	C	P-O3'-C3'	20.63	151.14	120.20
36	B2	1507	G	O4'-C1'-C2'	20.61	126.41	105.80
67	Ce	16	ARG	CA-C-N	20.56	159.04	121.41
67	Ce	16	ARG	C-N-CA	20.56	159.04	121.41
1	Az	121	VAL	O-C-N	-20.55	100.53	121.90
85	A5	4747	C	P-O3'-C3'	20.48	150.93	120.20
73	Cl	5	LYS	CA-C-N	-20.47	90.69	122.62
73	Cl	5	LYS	C-N-CA	-20.47	90.69	122.62
29	AG	157	VAL	N-CA-C	20.35	135.84	109.58
85	A5	1269	G	P-O3'-C3'	20.24	150.56	120.20
56	CX	73	HIS	N-CA-C	-20.23	88.61	113.28
23	AD	193	ASP	N-CA-C	-20.19	85.29	112.75
31	AH	109	ARG	NE-CZ-NH1	20.19	141.69	121.50
81	CE	70	LYS	CB-CA-C	-20.18	77.29	110.79
60	Cr	90	LEU	O-C-N	-20.08	95.89	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	Cz	28	PHE	CA-C-N	-20.06	92.09	121.99
38	Cz	28	PHE	C-N-CA	-20.06	92.09	121.99
1	Az	154	VAL	CB-CA-C	20.05	141.97	110.28
33	AI	134	GLU	N-CA-CB	20.01	139.02	110.01
5	AO	145	GLY	N-CA-C	19.96	130.91	111.95
85	A5	4924	C	P-O3'-C3'	19.96	150.14	120.20
29	AG	131	ARG	CB-CA-C	19.91	145.27	109.62
85	A5	1292	C	P-O3'-C3'	19.86	149.99	120.20
82	CG	59	ARG	N-CA-CB	19.85	144.03	110.49
85	A5	4014	G	P-O3'-C3'	19.81	149.91	120.20
36	B2	753	C	P-O5'-C5'	19.72	150.49	120.90
26	AJ	146	SER	CA-C-N	19.70	150.45	120.89
26	AJ	146	SER	C-N-CA	19.70	150.45	120.89
85	A5	2266	C	P-O3'-C3'	19.61	149.61	120.20
57	CY	51	LYS	N-CA-C	19.59	132.30	111.14
85	A5	1167	C	P-O3'-C3'	19.59	149.59	120.20
36	B2	304	C	C4'-C3'-O3'	-19.57	80.04	109.40
39	Cq	68	HIS	CA-C-O	-19.50	99.88	120.55
36	B2	339	A	C4'-C3'-O3'	-19.50	83.75	113.00
19	AZ	107	VAL	N-CA-CB	-19.49	87.74	110.55
85	A5	3977	C	P-O3'-C3'	19.49	149.43	120.20
85	A5	1443	A	P-O5'-C5'	19.40	150.00	120.90
1	Az	539	GLU	CA-C-N	-19.38	95.25	120.44
1	Az	539	GLU	C-N-CA	-19.38	95.25	120.44
33	AI	43	ILE	CA-C-O	19.37	141.14	121.19
74	CC	335	MET	CA-C-O	-19.36	100.49	120.82
87	A8	111	U	P-O3'-C3'	19.33	149.20	120.20
36	B2	1632	G	P-O3'-C3'	19.14	148.91	120.20
49	CQ	6	ARG	NE-CZ-NH2	-18.98	102.12	119.20
85	A5	3594	C	N1-C1'-C2'	18.96	140.43	112.00
85	A5	1445	U	P-O3'-C3'	18.94	148.61	120.20
81	CE	59	ARG	O-C-N	18.92	146.01	122.55
29	AG	131	ARG	CB-CG-CD	18.89	154.75	111.30
75	Cm	106	ARG	N-CA-C	-18.88	90.22	112.87
85	A5	5027	C	P-O3'-C3'	18.75	148.33	120.20
56	CX	52	LEU	O-C-N	-18.72	101.80	122.96
36	B2	327	G	P-O3'-C3'	18.71	148.26	120.20
36	B2	734	C	P-O3'-C3'	18.70	148.25	120.20
36	B2	1118	C	O4'-C1'-N1	18.61	136.41	108.50
18	AY	86	GLU	CA-C-O	-18.58	94.71	120.16
36	B2	1474	A	P-O3'-C3'	18.53	148.00	120.20
35	Ah	169	GLY	O-C-N	18.42	140.75	123.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	117	C	C4'-C3'-O3'	-18.36	85.46	113.00
12	AR	1	MET	N-CA-CB	18.28	141.58	110.50
85	A5	149	A	C4'-C3'-O3'	-18.28	85.57	113.00
85	A5	693	C	P-O3'-C3'	18.27	147.60	120.20
70	Ci	6	PRO	N-CA-CB	-18.23	84.11	103.25
36	B2	66	G	P-O3'-C3'	18.18	147.47	120.20
36	B2	1463	U	C4'-C3'-O3'	-18.15	82.17	109.40
82	CG	106	THR	CA-C-O	-18.11	94.62	120.51
64	CF	220	MET	CA-C-N	18.05	151.36	120.68
64	CF	220	MET	C-N-CA	18.05	151.36	120.68
8	AS	9	PHE	N-CA-C	18.03	131.04	111.03
20	Aa	97	PRO	CA-C-N	-18.00	101.84	120.38
20	Aa	97	PRO	C-N-CA	-18.00	101.84	120.38
81	CE	74	SER	CB-CA-C	18.00	146.24	110.42
36	B2	530	U	C4'-C3'-O3'	-17.95	86.08	113.00
87	A8	95	A	P-O3'-C3'	-17.93	93.30	120.20
36	B2	214	U	P-O3'-C3'	17.93	147.09	120.20
36	B2	126	G	C4'-C3'-O3'	-17.91	82.53	109.40
85	A5	1371	A	O4'-C1'-C2'	-17.88	89.72	107.60
39	Cq	57	LYS	CA-CB-CG	17.83	149.76	114.10
38	Cz	98	LYS	O-C-N	17.82	144.09	121.99
67	Ce	16	ARG	O-C-N	-17.80	98.51	122.36
81	CE	127	SER	CB-CA-C	17.79	140.06	109.65
36	B2	797	C	P-O3'-C3'	17.78	146.88	120.20
42	CL	48	PRO	N-CA-C	17.73	141.64	111.32
85	A5	1211	G	P-O3'-C3'	17.69	146.73	120.20
18	AY	86	GLU	N-CA-C	17.68	148.88	109.81
34	AQ	31	LEU	N-CA-C	17.67	132.70	110.61
85	A5	4991	U	P-O3'-C3'	17.65	146.67	120.20
36	B2	140	C	P-O3'-C3'	17.64	146.67	120.20
85	A5	1356	U	P-O3'-C3'	17.59	146.59	120.20
85	A5	1443	A	P-O3'-C3'	17.55	146.53	120.20
1	Az	113	SER	N-CA-C	-17.54	91.98	113.20
38	Cz	28	PHE	O-C-N	17.53	143.08	123.27
36	B2	1648	G	C4'-C3'-O3'	17.46	135.59	109.40
36	B2	840	C	P-O3'-C3'	17.45	146.37	120.20
85	A5	1696	C	P-O3'-C3'	17.44	146.36	120.20
81	CE	104	THR	CA-C-N	-17.43	96.59	122.39
81	CE	104	THR	C-N-CA	-17.43	96.59	122.39
85	A5	1719	A	P-O3'-C3'	17.41	146.32	120.20
85	A5	2115	G	P-O3'-C3'	17.41	146.32	120.20
13	AP	37	TYR	N-CA-CB	-17.40	81.08	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	592	C	O4'-C1'-N1	17.38	134.26	108.20
85	A5	3663	A	P-O3'-C3'	17.29	146.13	120.20
85	A5	2004	U	C4'-C3'-O3'	-17.27	87.09	113.00
74	CC	108	TRP	O-C-N	-17.26	99.64	122.59
85	A5	4947	U	P-O3'-C3'	17.17	145.96	120.20
61	Ch	121	VAL	O-C-N	-17.06	105.00	122.92
85	A5	4122	G	C4'-C3'-O3'	-17.04	87.44	113.00
61	Ch	76	LYS	N-CA-C	17.04	134.19	113.41
85	A5	4164	C	P-O3'-C3'	17.02	145.73	120.20
36	B2	695	C	P-O3'-C3'	17.02	145.72	120.20
85	A5	3892	U	C4'-C3'-O3'	-17.01	87.48	113.00
81	CE	93	THR	N-CA-CB	17.01	140.42	111.50
36	B2	754	G	P-O3'-C3'	16.98	145.66	120.20
36	B2	1230	C	N1-C1'-C2'	16.95	137.43	112.00
6	AX	128	VAL	N-CA-C	16.93	129.52	113.10
49	CQ	6	ARG	N-CA-CB	-16.91	84.52	110.73
58	CW	83	THR	N-CA-CB	16.89	139.03	110.49
1	Az	768	GLY	CA-C-N	-16.89	92.93	121.64
1	Az	768	GLY	C-N-CA	-16.89	92.93	121.64
49	CQ	6	ARG	CB-CA-C	16.89	139.26	110.72
85	A5	971	U	O4'-C1'-C2'	-16.82	90.78	107.60
36	B2	1521	C	P-O3'-C3'	16.81	145.41	120.20
35	Ah	157	ILE	O-C-N	16.80	143.57	122.57
1	Az	825	PHE	N-CA-C	16.80	129.28	111.14
6	AX	23	HIS	O-C-N	-16.78	102.58	122.22
53	CT	75	VAL	O-C-N	-16.77	103.74	122.36
55	CU	57	GLY	O-C-N	16.76	135.75	123.35
85	A5	1578	U	P-O5'-C5'	-16.76	95.76	120.90
85	A5	1379	C	P-O3'-C3'	16.75	145.33	120.20
35	Ah	170	ARG	CA-C-N	-16.74	98.20	122.64
35	Ah	170	ARG	C-N-CA	-16.74	98.20	122.64
36	B2	747	U	P-O3'-C3'	16.73	145.29	120.20
85	A5	4906	C	P-O5'-C5'	16.63	145.84	120.90
17	AV	31	SER	N-CA-C	16.62	136.99	109.24
61	Ch	38	GLY	N-CA-C	16.60	138.84	115.43
36	B2	726	C	P-O3'-C3'	16.59	145.09	120.20
49	CQ	2	GLY	N-CA-C	16.54	135.64	112.81
85	A5	3261	C	P-O3'-C3'	16.53	144.99	120.20
85	A5	2147	C	P-O3'-C3'	16.52	144.98	120.20
42	CL	163	LYS	CA-C-N	-16.52	100.81	122.77
42	CL	163	LYS	C-N-CA	-16.52	100.81	122.77
6	AX	91	LEU	N-CA-C	-16.46	93.45	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2489	C	C2'-C3'-O3'	-16.45	89.02	113.70
36	B2	67	C	O4'-C1'-N1	16.45	133.18	108.50
1	Az	269	ALA	O-C-N	-16.42	100.75	122.59
36	B2	1477	U	P-O3'-C3'	16.42	144.83	120.20
57	CY	51	LYS	CA-C-N	-16.42	99.09	120.44
57	CY	51	LYS	C-N-CA	-16.42	99.09	120.44
85	A5	4423	U	O4'-C1'-N1	16.42	133.13	108.50
16	AA	193	HIS	CA-C-N	16.42	140.36	119.84
16	AA	193	HIS	C-N-CA	16.42	140.36	119.84
85	A5	1266	G	O4'-C1'-C2'	16.40	122.20	105.80
39	Cq	231	TYR	CB-CA-C	16.36	133.54	108.84
60	Cr	115	SER	CB-CA-C	16.36	136.98	110.81
85	A5	3643	A	P-O3'-C3'	16.36	144.74	120.20
85	A5	2671	C	P-O3'-C3'	-16.36	95.67	120.20
58	CW	97	LYS	N-CA-C	16.35	122.93	108.22
39	Cq	263	GLU	N-CA-CB	-16.32	82.91	110.49
74	CC	323	ARG	CA-CB-CG	16.30	146.69	114.10
85	A5	975	C	O4'-C1'-C2'	-16.29	91.31	107.60
36	B2	1155	U	N1-C1'-C2'	16.28	138.42	114.00
85	A5	245	C	O4'-C1'-N1	16.27	132.90	108.50
85	A5	125	C	P-O3'-C3'	16.26	144.59	120.20
36	B2	72	C	O4'-C1'-N1	16.24	132.56	108.20
36	B2	1433	C	O3'-P-O5'	-16.21	79.68	104.00
29	AG	181	THR	CA-C-N	16.21	136.52	118.85
29	AG	181	THR	C-N-CA	16.21	136.52	118.85
36	B2	1395	C	P-O3'-C3'	16.21	144.51	120.20
85	A5	1237	C	P-O3'-C3'	16.20	144.50	120.20
36	B2	273	G	P-O3'-C3'	16.20	144.50	120.20
1	Az	266	PHE	O-C-N	-16.17	100.50	122.97
85	A5	972	C	P-O5'-C5'	16.16	145.15	120.90
85	A5	1720	C	C4'-C3'-O3'	-16.15	88.77	113.00
41	CO	5	GLN	CA-C-N	-16.14	102.00	123.14
41	CO	5	GLN	C-N-CA	-16.14	102.00	123.14
40	CK	137	GLN	N-CA-C	16.14	131.14	110.33
85	A5	1276	C	P-O3'-C3'	16.13	144.40	120.20
85	A5	2669	C	P-O3'-C3'	16.11	144.37	120.20
23	AD	4	GLN	CG-CD-NE2	16.11	140.56	116.40
85	A5	668	C	P-O3'-C3'	16.11	144.36	120.20
85	A5	664	G	P-O3'-C3'	16.10	144.36	120.20
85	A5	4237	C	P-O3'-C3'	16.10	144.36	120.20
85	A5	2490	U	P-O3'-C3'	16.06	144.29	120.20
36	B2	1418	C	C3'-C2'-C1'	-16.06	85.44	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	CE	85	LYS	N-CA-CB	-16.06	83.35	110.49
23	AD	193	ASP	CA-C-N	-16.05	99.78	119.84
23	AD	193	ASP	C-N-CA	-16.05	99.78	119.84
85	A5	2257	C	P-O3'-C3'	16.03	144.25	120.20
12	AR	88	VAL	O-C-N	-16.01	102.56	122.57
12	AR	89	SER	N-CA-C	16.00	144.89	110.80
36	B2	841	G	C1'-C2'-O2'	-15.99	84.41	108.40
67	Ce	7	LEU	CA-C-N	-15.90	98.11	121.65
67	Ce	7	LEU	C-N-CA	-15.90	98.11	121.65
85	A5	972	C	O4'-C1'-C2'	-15.89	91.71	107.60
36	B2	1568	C	N1-C1'-C2'	15.89	135.83	112.00
85	A5	2105	A	P-O3'-C3'	15.86	143.98	120.20
49	CQ	12	LYS	N-CA-C	-15.81	85.52	108.60
74	CC	155	GLU	N-CA-CB	15.80	134.04	109.71
36	B2	1417	C	O4'-C1'-C2'	-15.76	91.84	107.60
36	B2	1397	U	N1-C1'-C2'	15.75	137.62	114.00
2	Ag	274	VAL	CA-C-N	-15.74	102.66	123.12
2	Ag	274	VAL	C-N-CA	-15.74	102.66	123.12
36	B2	1285	G	C4'-C3'-O3'	15.70	132.95	109.40
33	AI	3	ILE	N-CA-C	15.70	130.81	108.36
85	A5	4941	G	O3'-P-O5'	-15.70	80.46	104.00
52	CS	174	THR	O-C-N	-15.68	101.74	122.59
85	A5	1753	G	P-O3'-C3'	15.63	143.65	120.20
36	B2	1396	A	P-O3'-C3'	15.62	143.62	120.20
15	AB	40	ASN	CA-C-N	-15.61	98.64	120.95
15	AB	40	ASN	C-N-CA	-15.61	98.64	120.95
53	CT	144	ASN	N-CA-C	-15.60	89.99	110.43
85	A5	963	G	O4'-C1'-C2'	-15.60	90.20	105.80
26	AJ	89	GLU	N-CA-C	15.59	137.10	111.37
2	Ag	275	ILE	N-CA-C	15.58	130.40	107.80
85	A5	4749	C	O4'-C1'-N1	15.57	131.55	108.20
23	AD	5	ILE	CA-C-N	15.57	144.25	120.75
23	AD	5	ILE	C-N-CA	15.57	144.25	120.75
35	Ah	179	MET	CA-C-N	15.56	148.49	120.79
35	Ah	179	MET	C-N-CA	15.56	148.49	120.79
40	CK	111	ASN	CA-CB-CG	15.52	128.12	112.60
40	CK	114	ARG	CD-NE-CZ	15.51	146.12	124.40
87	A8	111	U	O5'-C5'-C4'	15.50	134.94	111.70
54	CP	5	SER	CA-CB-OG	15.49	142.09	111.10
85	A5	1303	A	O4'-C1'-C2'	-15.49	92.11	107.60
36	B2	688	U	O4'-C1'-N1	15.49	131.43	108.20
85	A5	1280	C	P-O3'-C3'	15.48	143.43	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AD	82	GLY	CA-C-N	-15.46	98.33	120.29
23	AD	82	GLY	C-N-CA	-15.46	98.33	120.29
36	B2	329	G	P-O3'-C3'	15.46	143.40	120.20
85	A5	450	G	P-O3'-C3'	15.45	143.38	120.20
36	B2	434	G	C4'-C3'-O3'	-15.44	89.84	113.00
85	A5	703	G	P-O3'-C3'	15.42	143.33	120.20
36	B2	1756	C	P-O3'-C3'	15.41	143.32	120.20
82	CG	103	ARG	O-C-N	-15.39	103.62	121.32
85	A5	1367	C	O4'-C1'-C2'	-15.36	92.24	107.60
85	A5	4936	G	P-O5'-C5'	-15.34	97.89	120.90
36	B2	1016	U	N1-C1'-C2'	15.33	137.00	114.00
36	B2	1473	G	O3'-P-O5'	15.33	126.99	104.00
36	B2	561	A	C4'-C3'-O3'	-15.32	90.01	113.00
74	CC	34	PRO	O-C-N	-15.30	103.87	122.23
84	Cu	45	GLU	N-CA-CB	15.30	132.19	110.01
85	A5	1245	C	P-O3'-C3'	15.29	143.13	120.20
36	B2	1825	A	P-O3'-C3'	15.28	143.11	120.20
85	A5	1241	C	P-O3'-C3'	15.26	143.09	120.20
85	A5	2246	C	P-O3'-C3'	15.26	143.09	120.20
85	A5	1481	C	O4'-C1'-N1	15.23	131.35	108.50
81	CE	126	LEU	N-CA-CB	15.23	138.28	110.87
85	A5	1360	G	O3'-P-O5'	-15.23	81.16	104.00
36	B2	1553	C	O4'-C1'-N1	15.21	131.32	108.50
40	CK	111	ASN	N-CA-CB	15.20	133.67	110.42
78	Co	34	TYR	O-C-N	-15.17	102.41	122.59
29	AG	170	ARG	CA-CB-CG	15.16	144.43	114.10
36	B2	79	A	O4'-C1'-C2'	-15.15	90.64	105.80
85	A5	1338	G	O4'-C1'-C2'	15.15	120.95	105.80
36	B2	1237	C	N1-C1'-C2'	15.14	134.71	112.00
36	B2	180	G	P-O3'-C3'	-15.13	97.50	120.20
85	A5	4664	A	O3'-P-O5'	15.13	126.70	104.00
33	AI	134	GLU	CB-CA-C	-15.12	87.15	110.88
36	B2	742	U	O4'-C1'-N1	15.11	130.86	108.20
36	B2	797	C	O4'-C1'-N1	15.10	130.85	108.20
38	Cz	26	ARG	N-CA-C	15.10	142.96	110.80
45	Ca	147	VAL	O-C-N	-15.09	103.70	122.57
37	BC	17	G	P-O3'-C3'	15.08	142.82	120.20
85	A5	4120	U	N1-C1'-C2'	15.05	136.58	114.00
85	A5	499	G	P-O3'-C3'	15.05	142.78	120.20
19	AZ	112	ASN	N-CA-C	15.05	127.17	111.07
36	B2	228	C	P-O3'-C3'	15.02	142.73	120.20
36	B2	1554	C	O3'-P-O5'	-14.99	81.51	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	149	A	C2'-C3'-O3'	14.98	136.18	113.70
36	B2	1475	G	P-O3'-C3'	14.96	142.64	120.20
29	AG	170	ARG	N-CA-CB	14.96	132.99	110.70
6	AX	115	ILE	N-CA-C	-14.94	91.04	107.77
31	AH	110	THR	CA-C-O	-14.94	99.15	120.51
39	Cq	263	GLU	CB-CA-C	14.90	140.08	110.42
60	Cr	81	THR	O-C-N	-14.89	105.15	123.17
64	CF	23	ARG	CA-C-N	14.87	149.95	121.54
64	CF	23	ARG	C-N-CA	14.87	149.95	121.54
85	A5	2256	C	P-O3'-C3'	14.87	142.51	120.20
36	B2	1326	U	N1-C1'-C2'	14.87	136.30	114.00
81	CE	43	HIS	CA-C-N	14.87	149.93	121.54
81	CE	43	HIS	C-N-CA	14.87	149.93	121.54
85	A5	1484	G	P-O3'-C3'	14.84	142.47	120.20
74	CC	307	LYS	CB-CG-CD	14.84	145.43	111.30
85	A5	655	C	P-O3'-C3'	14.84	142.45	120.20
85	A5	737	C	P-O5'-C5'	14.81	143.11	120.90
85	A5	4869	U	P-O3'-C3'	14.80	142.39	120.20
85	A5	4942	C	C4'-C3'-O3'	-14.79	87.21	109.40
85	A5	1380	G	P-O3'-C3'	14.79	142.39	120.20
58	CW	23	ARG	N-CA-C	-14.76	91.05	110.53
85	A5	2112	G	C3'-C2'-C1'	-14.76	86.54	101.30
63	CB	298	LEU	CA-C-N	14.75	148.51	121.97
63	CB	298	LEU	C-N-CA	14.75	148.51	121.97
85	A5	4943	A	N9-C1'-C2'	14.73	134.10	112.00
85	A5	4951	G	P-O3'-C3'	14.73	142.30	120.20
48	CD	259	LYS	CA-C-N	14.72	149.66	121.54
48	CD	259	LYS	C-N-CA	14.72	149.66	121.54
63	CB	298	LEU	N-CA-CB	14.71	135.35	110.49
52	CS	72	PRO	N-CA-C	-14.71	93.79	113.65
85	A5	2107	C	P-O3'-C3'	14.68	142.21	120.20
32	AW	100	GLY	N-CA-C	-14.67	94.73	112.48
2	Ag	274	VAL	O-C-N	-14.66	107.93	123.03
40	CK	106	PHE	CA-CB-CG	14.64	128.44	113.80
69	Cg	83	CYS	CA-C-O	-14.64	103.56	120.10
85	A5	1407	C	P-O3'-C3'	14.64	142.15	120.20
36	B2	78	C	P-O3'-C3'	14.62	142.14	120.20
85	A5	2471	G	C4'-C3'-O3'	-14.63	87.46	109.40
85	A5	1455	G	P-O3'-C3'	14.61	142.12	120.20
28	AC	120	GLN	N-CA-C	14.61	129.38	110.53
36	B2	707	C	P-O3'-C3'	14.61	142.11	120.20
36	B2	698	G	P-O3'-C3'	14.61	142.11	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	971	U	O4'-C1'-N1	14.60	130.41	108.50
85	A5	1929	A	N9-C1'-C2'	14.60	133.90	112.00
34	AQ	18	THR	N-CA-CB	14.60	134.19	110.69
36	B2	1303	C	O4'-C1'-N1	14.60	130.40	108.50
24	Ae	21	LYS	O-C-N	-14.59	103.43	122.39
50	CR	143	HIS	CE1-NE2-CD2	14.58	123.58	109.00
45	Ca	108	TYR	CA-C-N	-14.58	103.53	121.90
45	Ca	108	TYR	C-N-CA	-14.58	103.53	121.90
36	B2	751	G	P-O3'-C3'	14.56	142.05	120.20
36	B2	126	G	P-O3'-C3'	14.56	142.04	120.20
8	AS	141	ARG	O-C-N	-14.56	100.83	122.96
36	B2	428	U	O4'-C1'-N1	14.54	130.01	108.20
68	Cf	59	THR	N-CA-CB	14.54	136.25	110.37
85	A5	2769	U	P-O3'-C3'	14.54	142.00	120.20
39	Cq	68	HIS	O-C-N	14.53	137.52	122.12
85	A5	4072	C	P-O3'-C3'	14.53	141.99	120.20
1	Az	278	THR	O-C-N	-14.52	103.65	123.11
58	CW	31	PHE	O-C-N	14.52	140.58	123.30
56	CX	155	ILE	CB-CA-C	-14.49	93.49	110.73
85	A5	2123	C	P-O3'-C3'	14.46	141.89	120.20
85	A5	1063	U	P-O3'-C3'	14.45	141.88	120.20
56	CX	155	ILE	N-CA-CB	14.45	130.59	112.10
36	B2	1117	C	O4'-C1'-N1	14.44	130.16	108.50
85	A5	1358	G	P-O3'-C3'	14.43	141.85	120.20
74	CC	232	VAL	O-C-N	14.43	135.86	121.87
55	CU	60	VAL	N-CA-CB	-14.42	87.43	111.23
35	Ah	170	ARG	N-CA-C	14.42	141.51	110.80
85	A5	4943	A	P-O3'-C3'	14.41	141.82	120.20
85	A5	2123	C	O4'-C1'-C2'	-14.40	93.20	107.60
18	AY	103	SER	O-C-N	-14.39	99.98	123.00
35	Ah	141	PRO	CA-C-N	14.37	147.41	122.12
35	Ah	141	PRO	C-N-CA	14.37	147.41	122.12
85	A5	444	G	P-O3'-C3'	14.37	141.75	120.20
31	AH	109	ARG	CD-NE-CZ	14.36	144.51	124.40
74	CC	4	ALA	CA-C-O	-14.36	96.38	120.80
85	A5	1295	C	P-O3'-C3'	14.36	141.74	120.20
16	AA	10	MET	N-CA-C	14.33	126.62	111.14
86	A7	48	G	P-O3'-C3'	14.32	141.68	120.20
85	A5	981	C	O4'-C1'-C2'	-14.31	93.29	107.60
66	Cd	105	LEU	CA-C-N	-14.30	103.11	122.99
66	Cd	105	LEU	C-N-CA	-14.30	103.11	122.99
53	CT	80	VAL	N-CA-C	14.29	128.04	107.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1072	C	N1-C1'-C2'	14.29	133.43	112.00
33	AI	5	ARG	CA-C-N	14.28	141.04	120.90
33	AI	5	ARG	C-N-CA	14.28	141.04	120.90
60	Cr	90	LEU	CA-C-N	14.28	142.24	120.82
60	Cr	90	LEU	C-N-CA	14.28	142.24	120.82
85	A5	2253	A	C2'-C3'-O3'	-14.28	92.28	113.70
12	AR	2	GLY	O-C-N	-14.26	106.57	122.68
85	A5	2152	G	P-O3'-C3'	14.26	141.59	120.20
4	AK	42	ASN	CA-C-O	-14.25	106.44	121.55
27	AE	259	LYS	N-CA-C	14.25	131.64	108.55
87	A8	109	C	P-O3'-C3'	14.25	141.57	120.20
85	A5	1501	C	C4'-C3'-O3'	14.24	130.76	109.40
50	CR	143	HIS	ND1-CG-CD2	-14.23	91.87	106.10
29	AG	131	ARG	CA-CB-CG	14.22	142.54	114.10
47	CI	206	LEU	CA-C-O	-14.21	100.19	120.51
85	A5	4524	G	C4'-C3'-O3'	-14.19	91.72	113.00
1	Az	4	PHE	N-CA-C	14.18	141.01	110.80
60	Cr	66	ARG	N-CA-CB	-14.18	86.52	110.49
60	Cr	91	SER	N-CA-CB	14.18	132.89	109.78
36	B2	218	U	N1-C1'-C2'	14.18	133.26	112.00
36	B2	72	C	P-O3'-C3'	14.17	141.46	120.20
85	A5	499	G	N9-C1'-C2'	14.16	133.24	112.00
85	A5	2091	C	O4'-C1'-N1	14.15	129.73	108.50
85	A5	1444	G	P-O3'-C3'	14.15	141.42	120.20
85	A5	1774	C	P-O3'-C3'	14.14	141.41	120.20
36	B2	1137	U	P-O3'-C3'	14.13	141.40	120.20
36	B2	740	C	P-O3'-C3'	14.13	141.39	120.20
17	AV	78	ILE	N-CA-C	14.09	150.46	111.00
36	B2	1549	U	P-O3'-C3'	14.09	141.34	120.20
63	CB	292	LEU	O-C-N	-14.09	103.86	122.59
85	A5	1429	C	O4'-C1'-C2'	-14.07	93.53	107.60
40	CK	24	ALA	O-C-N	-14.06	103.89	122.59
36	B2	308	G	N9-C1'-C2'	14.05	135.08	114.00
54	CP	109	VAL	CB-CA-C	-14.04	93.99	111.97
85	A5	143	C	P-O3'-C3'	14.04	141.26	120.20
86	A7	13	A	C4'-C3'-O3'	14.04	130.46	109.40
68	Cf	100	ARG	CA-C-N	14.03	140.88	122.51
68	Cf	100	ARG	C-N-CA	14.03	140.88	122.51
1	Az	267	ASP	CA-C-O	-14.00	108.53	120.71
49	CQ	6	ARG	CB-CG-CD	14.00	143.49	111.30
21	Ab	36	LYS	CA-C-N	13.99	155.94	121.80
21	Ab	36	LYS	C-N-CA	13.99	155.94	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	AC	108	LYS	O-C-N	-13.98	109.62	123.46
81	CE	73	TYR	CA-C-N	-13.95	94.90	121.54
81	CE	73	TYR	C-N-CA	-13.95	94.90	121.54
36	B2	1231	C	N1-C1'-C2'	13.94	132.91	112.00
85	A5	5015	G	O4'-C1'-C2'	-13.93	93.67	107.60
85	A5	2017	A	P-O3'-C3'	-13.93	99.31	120.20
85	A5	4871	C	O4'-C1'-N1	13.91	129.07	108.20
8	AS	87	GLN	O-C-N	-13.88	105.57	122.65
36	B2	731	G	P-O3'-C3'	13.88	141.02	120.20
1	Az	122	THR	CB-CA-C	13.88	129.35	110.06
6	AX	98	ASP	N-CA-C	13.88	126.49	111.36
6	AX	37	LYS	N-CA-C	13.88	126.13	111.14
36	B2	180	G	C4'-C3'-O3'	13.87	130.21	109.40
24	Ae	46	VAL	CB-CA-C	-13.87	99.65	114.35
85	A5	245	C	P-O3'-C3'	13.85	140.97	120.20
81	CE	59	ARG	CA-C-N	13.84	146.60	121.70
81	CE	59	ARG	C-N-CA	13.84	146.60	121.70
1	Az	285	LEU	O-C-N	-13.82	108.16	121.57
45	Ca	116	LYS	N-CA-C	13.81	127.07	110.91
68	Cf	59	THR	CB-CA-C	-13.81	82.96	110.17
66	Cd	115	LYS	N-CA-C	13.80	129.80	110.06
74	CC	335	MET	CB-CA-C	-13.80	89.21	110.88
18	AY	64	PHE	CA-C-N	-13.79	107.03	123.44
18	AY	64	PHE	C-N-CA	-13.79	107.03	123.44
81	CE	38	LYS	N-CA-C	13.78	140.15	110.80
81	CE	74	SER	CA-CB-OG	13.77	138.64	111.10
40	CK	2	PRO	N-CD-CG	13.76	123.84	103.20
85	A5	4943	A	C1'-O4'-C4'	-13.76	96.14	109.90
47	CI	194	GLY	CA-C-N	-13.75	100.54	121.99
47	CI	194	GLY	C-N-CA	-13.75	100.54	121.99
22	Ac	6	VAL	N-CA-C	13.74	127.26	107.75
11	AL	153	LYS	O-C-N	-13.72	104.34	122.59
85	A5	2018	C	P-O5'-C5'	13.72	141.49	120.90
85	A5	1823	G	C4'-C3'-O3'	-13.71	92.43	113.00
36	B2	266	G	P-O3'-C3'	13.70	140.76	120.20
85	A5	3861	A	O4'-C1'-C2'	-13.70	93.90	107.60
66	Cd	61	ASP	CA-C-N	-13.69	101.75	122.70
66	Cd	61	ASP	C-N-CA	-13.69	101.75	122.70
85	A5	185	C	O4'-C1'-C2'	-13.69	93.91	107.60
81	CE	70	LYS	N-CA-CB	13.69	130.25	110.12
41	CO	4	VAL	CB-CA-C	-13.69	92.17	111.19
85	A5	724	C	O4'-C1'-C2'	-13.69	93.91	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	A8	109	C	C4'-C3'-O3'	-13.68	92.48	113.00
86	A7	72	U	P-O5'-C5'	13.66	141.39	120.90
31	AH	118	ARG	NE-CZ-NH1	13.63	135.13	121.50
3	AU	67	LYS	CA-C-N	-13.61	99.99	120.68
3	AU	67	LYS	C-N-CA	-13.61	99.99	120.68
78	Co	3	ASN	O-C-N	-13.60	103.50	122.94
36	B2	1462	U	C4'-C3'-O3'	13.59	129.79	109.40
85	A5	4559	A	O3'-P-O5'	-13.59	83.62	104.00
85	A5	1274	A	P-O5'-C5'	13.58	141.26	120.90
85	A5	2097	U	O4'-C1'-C2'	-13.57	94.03	107.60
85	A5	4942	C	P-O3'-C3'	13.57	140.56	120.20
85	A5	4462	C	C4'-C3'-O3'	-13.56	92.65	113.00
85	A5	4779	U	P-O3'-C3'	13.56	140.54	120.20
27	AE	75	LYS	N-CA-C	13.55	130.85	108.49
85	A5	1368	A	N9-C1'-C2'	13.54	132.31	112.00
36	B2	190	G	P-O3'-C3'	13.54	140.50	120.20
36	B2	534	G	P-O3'-C3'	13.51	140.47	120.20
85	A5	712	C	N1-C1'-C2'	13.50	132.25	112.00
44	CM	80	ALA	CA-C-N	-13.49	102.53	122.36
44	CM	80	ALA	C-N-CA	-13.49	102.53	122.36
85	A5	4732	G	O3'-P-O5'	13.49	124.23	104.00
81	CE	39	LYS	CA-C-N	13.48	133.18	121.58
81	CE	39	LYS	C-N-CA	13.48	133.18	121.58
85	A5	1995	G	N9-C1'-C2'	13.48	132.22	112.00
48	CD	124	GLU	N-CA-C	13.46	125.68	111.14
36	B2	1331	C	N1-C1'-C2'	13.46	134.19	114.00
85	A5	1754	U	C4'-C3'-O3'	-13.45	92.82	113.00
85	A5	1757	U	P-O5'-C5'	-13.45	100.72	120.90
85	A5	1481	C	P-O3'-C3'	13.45	140.37	120.20
36	B2	1109	C	O4'-C1'-N1	13.44	128.66	108.50
74	CC	335	MET	CA-C-N	13.43	137.90	120.44
74	CC	335	MET	C-N-CA	13.43	137.90	120.44
15	AB	63	LYS	N-CA-C	13.41	125.63	111.14
36	B2	135	U	P-O3'-C3'	13.41	140.32	120.20
85	A5	2228	C	P-O3'-C3'	13.41	140.32	120.20
26	AJ	145	PRO	N-CA-C	-13.41	96.01	113.57
85	A5	5062	G	P-O3'-C3'	13.40	140.30	120.20
2	Ag	50	THR	CA-C-N	-13.38	103.33	123.14
2	Ag	50	THR	C-N-CA	-13.38	103.33	123.14
85	A5	4463	U	C1'-C2'-O2'	-13.38	88.33	108.40
85	A5	4105	A	C4'-C3'-O3'	13.36	129.44	109.40
44	CM	80	ALA	O-C-N	13.35	140.25	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	CE	126	LEU	N-CA-C	-13.35	90.86	108.34
36	B2	1507	G	C1'-C2'-O2'	13.34	131.81	111.80
85	A5	974	C	P-O3'-C3'	13.34	140.22	120.20
85	A5	3279	A	P-O3'-C3'	13.34	140.20	120.20
36	B2	1022	U	N1-C1'-C2'	13.33	132.00	112.00
80	CH	50	LYS	CA-C-N	-13.32	105.12	121.90
80	CH	50	LYS	C-N-CA	-13.32	105.12	121.90
47	CI	194	GLY	O-C-N	13.31	140.01	122.70
85	A5	1577	G	C4'-C3'-O3'	-13.31	93.03	113.00
36	B2	1315	U	O4'-C1'-N1	13.31	128.46	108.50
10	AN	19	ARG	N-CA-C	-13.31	91.48	110.24
85	A5	226	G	C4'-C3'-O3'	-13.30	93.05	113.00
85	A5	4949	G	C4'-C3'-O3'	13.30	132.95	113.00
34	AQ	134	GLY	CA-C-N	-13.29	105.69	120.04
34	AQ	134	GLY	C-N-CA	-13.29	105.69	120.04
81	CE	59	ARG	CA-C-O	-13.28	106.44	121.84
21	Ab	79	PHE	N-CA-C	13.27	129.76	107.20
36	B2	225	G	P-O3'-C3'	13.25	140.08	120.20
85	A5	2487	G	P-O3'-C3'	13.25	140.08	120.20
74	CC	54	VAL	CA-C-N	-13.24	100.15	120.94
74	CC	54	VAL	C-N-CA	-13.24	100.15	120.94
85	A5	4559	A	C4'-C3'-O3'	-13.24	93.14	113.00
85	A5	963	G	P-O3'-C3'	13.22	140.03	120.20
1	Az	285	LEU	CA-C-N	13.22	134.27	119.99
1	Az	285	LEU	C-N-CA	13.22	134.27	119.99
85	A5	2290	C	P-O3'-C3'	13.21	140.01	120.20
36	B2	242	U	P-O3'-C3'	13.20	140.00	120.20
1	Az	825	PHE	CA-C-N	-13.19	98.57	120.87
1	Az	825	PHE	C-N-CA	-13.19	98.57	120.87
36	B2	136	C	P-O3'-C3'	13.19	139.99	120.20
85	A5	2153	G	P-O3'-C3'	13.16	139.94	120.20
87	A8	94	G	O4'-C1'-C2'	-13.16	92.64	105.80
36	B2	835	C	P-O5'-C5'	13.16	140.64	120.90
36	B2	500	A	O3'-P-O5'	-13.15	84.27	104.00
81	CE	101	ASN	N-CA-CB	13.15	132.71	110.49
29	AG	219	GLU	CA-C-N	13.14	145.71	121.52
29	AG	219	GLU	C-N-CA	13.14	145.71	121.52
40	CK	99	LYS	N-CA-CB	13.14	132.69	110.49
21	Ab	53	VAL	CA-C-N	-13.13	106.90	123.19
21	Ab	53	VAL	C-N-CA	-13.13	106.90	123.19
11	AL	28	THR	CA-C-N	13.12	131.71	121.61
11	AL	28	THR	C-N-CA	13.12	131.71	121.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	Cv	17	SER	C-N-CD	-13.11	71.25	125.00
85	A5	4143	G	P-O3'-C3'	13.11	139.87	120.20
3	AU	93	SER	O-C-N	13.11	136.39	121.32
26	AJ	138	ARG	N-CA-C	13.10	138.70	110.80
58	CW	71	ARG	CA-CB-CG	13.09	140.28	114.10
36	B2	296	U	N1-C1'-C2'	13.09	131.63	112.00
1	Az	267	ASP	CA-C-N	-13.08	105.32	119.19
1	Az	267	ASP	C-N-CA	-13.08	105.32	119.19
85	A5	4758	U	O4'-C1'-N1	13.07	128.10	108.50
36	B2	852	G	C4'-C3'-O3'	-13.06	93.42	113.00
74	CC	84	THR	CA-C-N	-13.06	103.49	123.47
74	CC	84	THR	C-N-CA	-13.06	103.49	123.47
85	A5	115	C	O4'-C1'-N1	13.05	127.78	108.20
85	A5	2627	C	C4'-C3'-O3'	-13.05	93.42	113.00
81	CE	58	SER	O-C-N	-13.05	105.24	122.59
12	AR	1	MET	CA-C-N	-13.04	97.57	120.79
12	AR	1	MET	C-N-CA	-13.04	97.57	120.79
36	B2	834	C	N1-C1'-C2'	13.04	131.56	112.00
47	CI	206	LEU	CB-CA-C	-13.02	84.51	110.42
14	AT	4	VAL	N-CA-C	13.02	147.45	111.00
27	AE	171	ASP	N-CA-C	13.02	138.53	110.80
36	B2	1085	C	P-O5'-C5'	-13.01	101.38	120.90
85	A5	1841	C	O4'-C1'-N1	13.01	127.71	108.20
31	AH	192	PHE	N-CA-C	13.00	126.86	110.61
36	B2	1396	A	O4'-C1'-N9	13.00	128.00	108.50
85	A5	308	G	O4'-C1'-N9	13.00	127.70	108.20
8	AS	91	LYS	CG-CD-CE	12.99	141.17	111.30
85	A5	1939	A	P-O3'-C3'	12.98	139.67	120.20
36	B2	1014	G	O4'-C1'-C2'	12.98	120.58	107.60
54	CP	110	ASP	CB-CA-C	-12.97	90.52	110.88
67	Ce	21	ILE	CB-CA-C	-12.97	97.32	111.59
30	AF	36	GLN	N-CA-C	-12.96	90.65	109.96
85	A5	293	G	P-O3'-C3'	12.96	139.64	120.20
85	A5	1578	U	C4'-C3'-O3'	-12.96	93.57	113.00
85	A5	486	C	P-O3'-C3'	12.95	139.62	120.20
85	A5	4119	C	P-O3'-C3'	12.95	139.62	120.20
87	A8	100	U	N1-C1'-C2'	12.94	131.42	112.00
2	Ag	159	ASN	CA-C-N	-12.93	104.75	123.11
2	Ag	159	ASN	C-N-CA	-12.93	104.75	123.11
39	Cq	57	LYS	CB-CA-C	-12.93	84.69	110.42
38	Cz	130	LYS	CB-CA-C	12.92	132.24	110.79
13	AP	51	ARG	N-CA-C	12.92	124.89	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	CT	150	LEU	CA-C-N	-12.92	99.03	123.32
53	CT	150	LEU	C-N-CA	-12.92	99.03	123.32
59	CZ	128	LYS	N-CA-C	12.92	124.89	111.07
85	A5	1313	C	O4'-C1'-C2'	-12.92	92.88	105.80
85	A5	3775	A	O4'-C1'-N9	12.91	127.86	108.50
85	A5	1398	A	P-O3'-C3'	12.90	139.56	120.20
21	Ab	37	CYS	CA-C-N	12.90	135.97	119.84
21	Ab	37	CYS	C-N-CA	12.90	135.97	119.84
6	AX	126	ALA	N-CA-C	-12.89	97.13	112.86
36	B2	871	U	O4'-C1'-N1	12.89	127.54	108.20
85	A5	934	C	P-O5'-C5'	12.89	140.24	120.90
85	A5	3876	A	P-O3'-C3'	12.89	139.54	120.20
85	A5	4748	U	P-O3'-C3'	12.89	139.54	120.20
85	A5	4749	C	P-O3'-C3'	12.88	139.51	120.20
85	A5	946	C	O4'-C1'-C2'	-12.87	92.93	105.80
85	A5	2427	G	N9-C1'-C2'	12.87	131.31	112.00
85	A5	4730	C	P-O3'-C3'	12.86	139.49	120.20
62	Cb	50	ASN	O-C-N	-12.85	108.50	122.12
81	CE	190	HIS	CA-C-N	12.85	142.55	120.58
81	CE	190	HIS	C-N-CA	12.85	142.55	120.58
85	A5	4119	C	O4'-C1'-N1	12.84	127.76	108.50
36	B2	368	U	P-O3'-C3'	12.84	139.46	120.20
30	AF	130	ARG	N-CA-C	12.84	129.00	111.54
38	Cz	207	LYS	N-CA-CB	-12.84	90.96	111.24
59	CZ	79	HIS	N-CA-C	12.83	129.43	112.88
70	Ci	78	GLY	O-C-N	12.83	137.65	122.38
85	A5	946	C	P-O3'-C3'	12.82	139.44	120.20
86	A7	6	C	O4'-C1'-C2'	-12.82	94.78	107.60
85	A5	4668	U	O3'-P-O5'	12.81	123.22	104.00
36	B2	1418	C	O4'-C1'-C2'	12.81	118.61	105.80
85	A5	2089	G	P-O3'-C3'	12.79	139.38	120.20
42	CL	165	LYS	N-CA-C	12.79	138.03	110.80
2	Ag	145	GLU	N-CA-C	-12.78	87.25	113.31
85	A5	2670	C	N1-C1'-C2'	12.77	131.16	112.00
85	A5	2107	C	O4'-C1'-C2'	-12.77	93.03	105.80
1	Az	104	ASP	CB-CA-C	12.76	125.50	109.80
85	A5	1704	C	P-O3'-C3'	12.76	139.34	120.20
53	CT	124	THR	CB-CA-C	-12.76	86.61	109.70
85	A5	406	C	P-O3'-C3'	12.76	139.34	120.20
39	Cq	23	ASP	O-C-N	-12.75	108.60	122.12
81	CE	232	ILE	CB-CA-C	-12.75	90.38	111.29
85	A5	2824	C	P-O3'-C3'	12.75	139.33	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	A8	127	U	O3'-P-O5'	-12.75	84.87	104.00
85	A5	967	C	P-O3'-C3'	12.75	139.33	120.20
85	A5	190	G	P-O3'-C3'	12.75	139.32	120.20
36	B2	350	C	O4'-C1'-C2'	-12.73	94.87	107.60
65	Cc	103	ASP	N-CA-C	-12.73	98.05	113.19
85	A5	1756	U	C4'-C3'-O3'	-12.73	93.91	113.00
36	B2	839	C	N1-C1'-C2'	12.71	133.06	114.00
53	CT	125	TRP	N-CA-C	12.69	127.61	110.35
47	CI	4	ARG	CA-C-N	-12.69	103.98	119.84
47	CI	4	ARG	C-N-CA	-12.69	103.98	119.84
85	A5	1440	U	P-O3'-C3'	12.68	139.22	120.20
7	AM	10	GLY	N-CA-C	12.68	131.97	114.85
36	B2	1412	C	O3'-P-O5'	-12.68	84.98	104.00
60	Cr	112	ARG	N-CA-CB	-12.67	91.50	110.12
36	B2	1261	C	N1-C1'-C2'	12.66	131.00	112.00
36	B2	752	G	P-O3'-C3'	12.64	139.16	120.20
85	A5	2766	A	P-O3'-C3'	12.64	139.15	120.20
29	AG	173	ALA	CA-C-N	12.62	135.61	119.84
29	AG	173	ALA	C-N-CA	12.62	135.61	119.84
39	Cq	206	ILE	CA-C-N	-12.62	103.80	123.23
39	Cq	206	ILE	C-N-CA	-12.62	103.80	123.23
86	A7	39	C	C4'-C3'-O3'	-12.61	94.08	113.00
45	Ca	90	ALA	N-CA-C	-12.61	97.53	111.28
26	AJ	101	LYS	N-CA-C	12.60	128.66	108.76
85	A5	2670	C	P-O3'-C3'	12.59	139.08	120.20
23	AD	4	GLN	N-CA-CB	-12.58	89.22	110.49
85	A5	4939	C	O3'-P-O5'	-12.57	85.14	104.00
85	A5	4665	A	C4'-C3'-O3'	-12.57	94.14	113.00
4	AK	1	MET	N-CA-CB	-12.57	89.13	110.50
25	Af	104	LYS	N-CA-C	-12.56	97.80	112.87
85	A5	2144	C	P-O3'-C3'	12.55	139.03	120.20
36	B2	1865	C	C4'-C3'-O3'	12.55	128.22	109.40
81	CE	101	ASN	CA-C-N	12.55	144.29	121.70
81	CE	101	ASN	C-N-CA	12.55	144.29	121.70
12	AR	111	PHE	N-CA-C	12.55	130.35	108.02
85	A5	2088	A	P-O3'-C3'	12.54	139.01	120.20
85	A5	3256	G	P-O3'-C3'	12.54	139.01	120.20
1	Az	807	GLN	N-CA-C	-12.54	84.09	110.80
38	Cz	210	MET	CG-SD-CE	-12.54	73.31	100.90
85	A5	2665	U	N1-C1'-C2'	12.54	130.81	112.00
36	B2	1311	C	N1-C1'-C2'	12.53	130.79	112.00
36	B2	1154	U	O4'-C1'-N1	12.53	126.99	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	CL	166	ALA	N-CA-C	-12.52	84.14	110.80
38	Cz	210	MET	N-CA-C	12.51	137.46	110.80
41	CO	202	LEU	O-C-N	-12.51	104.16	122.43
26	AJ	187	ALA	N-CA-C	12.49	124.30	108.19
48	CD	260	GLU	CB-CG-CD	12.49	133.83	112.60
11	AL	98	LYS	N-CA-C	-12.49	95.77	111.75
24	Ae	44	ASN	N-CA-C	12.49	124.62	111.14
85	A5	656	C	C4'-C3'-O3'	12.48	131.73	113.00
44	CM	66	HIS	N-CA-C	12.48	128.21	112.24
36	B2	1569	A	O4'-C1'-N9	12.47	127.21	108.50
85	A5	1235	G	P-O5'-C5'	12.47	139.61	120.90
85	A5	2940	C	P-O3'-C3'	12.47	138.90	120.20
36	B2	1410	C	N1-C1'-C2'	12.44	130.67	112.00
9	Ad	6	LEU	N-CA-C	-12.43	97.42	111.71
36	B2	210	U	C4'-C3'-O3'	12.43	131.64	113.00
5	AO	129	ILE	CB-CA-C	-12.42	90.92	111.29
1	Az	854	PHE	CB-CA-C	12.42	131.01	111.02
74	CC	267	TRP	O-C-N	-12.41	106.08	122.59
85	A5	1221	G	P-O3'-C3'	12.41	138.82	120.20
85	A5	1426	G	P-O3'-C3'	12.41	138.81	120.20
85	A5	4671	C	O4'-C1'-C2'	-12.41	93.39	105.80
36	B2	532	C	O4'-C1'-C2'	-12.40	95.20	107.60
85	A5	1153	C	P-O3'-C3'	12.40	138.80	120.20
85	A5	4942	C	O3'-P-O5'	-12.40	85.40	104.00
2	Ag	159	ASN	N-CA-C	12.39	137.19	110.80
4	AK	55	ARG	CG-CD-NE	12.38	139.25	112.00
32	AW	2	VAL	CA-C-N	-12.38	104.97	122.93
32	AW	2	VAL	C-N-CA	-12.38	104.97	122.93
60	Cr	36	ASN	N-CA-C	12.39	128.65	108.96
36	B2	141	A	P-O3'-C3'	12.37	138.75	120.20
85	A5	2947	G	P-O3'-C3'	12.37	138.75	120.20
38	Cz	160	LYS	CB-CA-C	12.36	133.27	113.37
13	AP	52	LYS	CA-C-N	-12.35	102.85	122.73
13	AP	52	LYS	C-N-CA	-12.35	102.85	122.73
30	AF	38	TYR	CA-C-N	-12.35	106.76	122.93
30	AF	38	TYR	C-N-CA	-12.35	106.76	122.93
85	A5	2112	G	C1'-O4'-C4'	-12.34	97.56	109.90
85	A5	2850	A	N9-C1'-C2'	12.34	130.50	112.00
74	CC	4	ALA	CA-C-N	-12.33	102.98	120.49
74	CC	4	ALA	C-N-CA	-12.33	102.98	120.49
81	CE	88	VAL	N-CA-CB	12.32	131.57	111.23
28	AC	257	LYS	N-CA-C	12.32	129.54	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	CT	151	LEU	CA-C-N	12.32	151.86	121.80
53	CT	151	LEU	C-N-CA	12.32	151.86	121.80
36	B2	841	G	C2'-C3'-O3'	-12.31	95.24	113.70
85	A5	177	G	P-O3'-C3'	12.30	138.66	120.20
8	AS	54	LYS	N-CA-C	12.30	137.00	110.80
85	A5	2083	C	P-O3'-C3'	12.30	138.64	120.20
36	B2	632	C	N1-C1'-C2'	12.28	130.42	112.00
85	A5	2252	G	P-O3'-C3'	12.28	138.62	120.20
49	CQ	139	LEU	N-CA-C	12.27	129.50	108.76
36	B2	165	G	O4'-C1'-N9	12.27	126.91	108.50
85	A5	4061	G	P-O3'-C3'	12.27	138.61	120.20
85	A5	4075	U	P-O3'-C3'	12.27	138.61	120.20
81	CE	118	THR	CA-C-N	12.27	144.97	121.54
81	CE	118	THR	C-N-CA	12.27	144.97	121.54
85	A5	2920	G	P-O3'-C3'	12.27	138.60	120.20
24	Ae	45	VAL	CA-C-N	12.26	127.97	120.24
24	Ae	45	VAL	C-N-CA	12.26	127.97	120.24
8	AS	10	GLN	N-CA-C	12.26	126.04	111.82
74	CC	305	PRO	CA-C-O	-12.26	98.28	120.60
85	A5	1532	G	N9-C1'-C2'	12.26	130.39	112.00
74	CC	261	ASP	CA-C-N	12.25	144.94	121.54
74	CC	261	ASP	C-N-CA	12.25	144.94	121.54
82	CG	105	GLU	N-CA-C	12.25	126.76	108.14
85	A5	4876	U	P-O3'-C3'	12.24	138.56	120.20
1	Az	123	ASP	O-C-N	-12.23	105.58	122.46
57	CY	97	VAL	O-C-N	-12.23	109.35	122.68
36	B2	1429	G	P-O3'-C3'	12.22	138.54	120.20
85	A5	688	U	N1-C1'-C2'	12.22	130.33	112.00
29	AG	173	ALA	O-C-N	-12.21	109.65	121.38
85	A5	2489	C	P-O3'-C3'	12.21	138.52	120.20
1	Az	197	SER	CA-C-N	12.20	141.03	121.87
1	Az	197	SER	C-N-CA	12.20	141.03	121.87
85	A5	1705	G	P-O5'-C5'	12.20	138.30	120.00
85	A5	931	C	P-O3'-C3'	12.20	138.50	120.20
26	AJ	180	LYS	N-CA-C	12.19	127.64	113.01
81	CE	81	GLU	N-CA-C	12.19	129.10	109.85
85	A5	1699	A	O4'-C1'-N9	12.18	126.47	108.20
85	A5	4877	G	O4'-C1'-N9	12.18	126.47	108.20
85	A5	1700	G	P-O3'-C3'	12.18	138.47	120.20
85	A5	1833	G	P-O3'-C3'	12.18	138.47	120.20
36	B2	138	C	P-O3'-C3'	12.18	138.47	120.20
85	A5	1709	C	O3'-P-O5'	-12.17	85.74	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	CD	57	ASN	N-CA-C	-12.16	93.77	110.68
74	CC	287	THR	OG1-CB-CG2	12.16	133.62	109.30
85	A5	2265	G	P-O3'-C3'	12.16	138.44	120.20
85	A5	2016	C	O3'-P-O5'	-12.16	85.77	104.00
85	A5	1269	G	O4'-C1'-C2'	-12.15	95.45	107.60
81	CE	73	TYR	O-C-N	12.15	138.75	122.59
85	A5	1832	C	P-O3'-C3'	12.15	138.42	120.20
1	Az	269	ALA	CA-C-N	-12.14	103.75	120.38
1	Az	269	ALA	C-N-CA	-12.14	103.75	120.38
36	B2	1308	U	O4'-C1'-N1	12.14	126.41	108.20
85	A5	690	C	O4'-C1'-C2'	-12.14	95.46	107.60
36	B2	732	U	P-O5'-C5'	12.14	139.10	120.90
85	A5	2470	C	C4'-C3'-O3'	12.13	131.20	113.00
85	A5	2546	G	P-O5'-C5'	12.13	139.09	120.90
85	A5	736	C	O4'-C1'-C2'	-12.11	95.49	107.60
85	A5	1994	C	N1-C1'-C2'	12.12	130.17	112.00
85	A5	2490	U	P-O5'-C5'	-12.11	102.74	120.90
82	CG	183	ILE	CB-CA-C	-12.09	91.46	111.29
85	A5	2120	G	O4'-C1'-C2'	-12.07	95.53	107.60
36	B2	304	C	P-O3'-C3'	12.05	138.28	120.20
55	CU	123	GLU	N-CA-CB	-12.05	91.86	110.65
81	CE	57	TYR	N-CA-CB	12.04	130.98	110.50
85	A5	172	C	P-O3'-C3'	-12.04	102.15	120.20
59	CZ	54	THR	CB-CA-C	-12.02	94.02	113.37
85	A5	2768	C	N1-C1'-C2'	12.02	130.03	112.00
14	AT	42	HIS	CB-CG-CD2	-12.00	115.60	131.20
85	A5	2647	A	O4'-C1'-C2'	-12.00	95.60	107.60
87	A8	88	A	N9-C1'-C2'	11.99	129.99	112.00
85	A5	486	C	P-O5'-C5'	11.99	138.89	120.90
87	A8	90	C	P-O5'-C5'	11.98	138.87	120.90
40	CK	44	ASP	CA-CB-CG	11.97	124.57	112.60
40	CK	130	LYS	CB-CA-C	-11.97	84.97	109.99
36	B2	4	C	N1-C1'-C2'	11.97	129.95	112.00
50	CR	56	THR	CA-C-N	-11.96	102.58	122.67
50	CR	56	THR	C-N-CA	-11.96	102.58	122.67
74	CC	315	LYS	N-CA-C	11.96	127.30	109.24
85	A5	1238	A	P-O3'-C3'	11.96	138.14	120.20
36	B2	1048	G	N9-C1'-C2'	11.96	129.93	112.00
85	A5	4950	U	C4'-C3'-O3'	-11.96	91.47	109.40
85	A5	1920	C	P-O3'-C3'	11.95	138.12	120.20
85	A5	4982	A	O4'-C1'-C2'	-11.93	95.67	107.60
53	CT	145	GLY	N-CA-C	-11.92	98.13	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1476	A	O4'-C1'-N9	11.92	126.38	108.50
85	A5	972	C	C3'-C2'-C1'	11.91	113.21	101.30
85	A5	4852	C	P-O3'-C3'	11.91	138.07	120.20
53	CT	3	ASN	CA-CB-CG	11.91	124.51	112.60
59	CZ	54	THR	N-CA-C	11.91	130.05	109.80
17	AV	64	GLU	N-CA-C	11.90	128.76	112.93
85	A5	4793	G	P-O3'-C3'	11.90	138.05	120.20
85	A5	2226	C	P-O3'-C3'	11.89	138.04	120.20
54	CP	110	ASP	CA-C-N	-11.89	98.16	121.94
54	CP	110	ASP	C-N-CA	-11.89	98.16	121.94
36	B2	721	G	P-O3'-C3'	11.89	138.03	120.20
36	B2	554	A	O4'-C1'-N9	11.88	126.33	108.50
85	A5	923	C	N1-C1'-C2'	11.88	129.83	112.00
85	A5	1221	G	O4'-C1'-N9	11.88	126.33	108.50
68	Cf	4	ARG	CA-C-N	11.88	144.22	121.54
68	Cf	4	ARG	C-N-CA	11.88	144.22	121.54
49	CQ	6	ARG	CD-NE-CZ	11.87	141.02	124.40
58	CW	82	ILE	CB-CA-C	11.87	122.45	110.70
81	CE	32	LEU	CD1-CG-CD2	-11.87	84.69	110.80
85	A5	2264	C	O3'-P-O5'	-11.87	86.20	104.00
29	AG	170	ARG	CB-CG-CD	11.86	138.57	111.30
36	B2	909	G	O3'-P-O5'	11.86	121.79	104.00
85	A5	4170	A	P-O3'-C3'	11.86	137.99	120.20
85	A5	2252	G	C4'-C3'-O3'	11.85	127.18	109.40
85	A5	703	G	O4'-C1'-N9	11.85	125.97	108.20
85	A5	2937	G	C4'-C3'-O3'	11.85	127.77	110.00
11	AL	20	LYS	N-CA-CB	-11.85	90.47	110.49
85	A5	4084	G	O3'-P-O5'	11.85	121.77	104.00
85	A5	3842	C	O3'-P-O5'	11.84	121.76	104.00
81	CE	113	PRO	CA-C-N	11.84	140.49	120.72
81	CE	113	PRO	C-N-CA	11.84	140.49	120.72
68	Cf	6	TRP	CA-C-O	-11.83	103.59	120.51
59	CZ	99	ASP	CA-CB-CG	11.83	124.43	112.60
36	B2	406	U	P-O3'-C3'	11.82	137.93	120.20
15	AB	76	ASN	N-CA-C	11.81	128.06	111.52
36	B2	1283	C	P-O3'-C3'	11.81	137.92	120.20
85	A5	927	G	P-O3'-C3'	11.81	137.92	120.20
74	CC	46	LYS	CA-C-N	-11.80	100.40	120.58
74	CC	46	LYS	C-N-CA	-11.80	100.40	120.58
40	CK	30	PRO	CB-CA-C	11.80	131.03	111.56
6	AX	23	HIS	CA-C-N	11.79	140.01	121.26
6	AX	23	HIS	C-N-CA	11.79	140.01	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	CR	57	VAL	CB-CA-C	11.79	128.98	110.82
36	B2	1537	A	O4'-C1'-C2'	-11.79	95.81	107.60
85	A5	1804	A	P-O3'-C3'	11.79	137.88	120.20
3	AU	104	ILE	N-CA-C	-11.78	84.83	109.34
85	A5	2638	G	O4'-C1'-C2'	-11.78	95.82	107.60
85	A5	1768	C	O4'-C1'-C2'	-11.78	94.02	105.80
36	B2	534	G	O3'-P-O5'	-11.77	86.35	104.00
8	AS	139	THR	N-CA-C	11.77	118.43	108.78
52	CS	60	GLU	N-CA-C	11.76	126.48	108.96
85	A5	4751	G	O4'-C1'-C2'	11.76	119.36	107.60
52	CS	23	HIS	N-CA-C	-11.76	87.32	108.48
36	B2	1578	U	O4'-C1'-N1	11.75	125.83	108.20
66	Cd	108	TYR	O-C-N	11.75	136.22	123.06
21	Ab	53	VAL	N-CA-C	-11.74	93.91	109.30
85	A5	3907	G	P-O3'-C3'	11.74	137.81	120.20
85	A5	1302	U	C3'-C2'-C1'	-11.73	89.57	101.30
23	AD	4	GLN	CG-CD-OE1	-11.73	97.34	120.80
85	A5	1272	C	P-O5'-C5'	11.73	138.49	120.90
2	Ag	160	SER	N-CA-C	11.72	128.74	107.99
8	AS	93	GLY	O-C-N	11.72	133.90	122.41
36	B2	839	C	C3'-C2'-C1'	-11.72	89.78	101.50
85	A5	1287	G	O5'-C5'-C4'	11.71	129.27	111.70
36	B2	740	C	N1-C1'-C2'	11.71	129.57	112.00
85	A5	934	C	O4'-C1'-C2'	-11.71	95.89	107.60
85	A5	1052	G	P-O3'-C3'	11.71	137.76	120.20
85	A5	1242	G	O4'-C1'-C2'	-11.70	95.90	107.60
81	CE	31	ASN	O-C-N	-11.70	107.03	122.59
36	B2	626	G	O4'-C1'-C2'	-11.70	95.90	107.60
6	AX	127	ASN	N-CA-C	-11.70	98.59	112.86
39	Cq	57	LYS	N-CA-CB	11.69	130.25	110.49
74	CC	266	THR	O-C-N	-11.69	107.17	122.72
16	AA	84	GLN	N-CA-C	11.68	123.75	111.14
39	Cq	37	SER	N-CA-CB	-11.67	90.77	110.49
42	CL	46	ILE	CA-C-O	-11.67	106.19	120.78
36	B2	1364	U	O3'-P-O5'	11.67	121.50	104.00
85	A5	307	A	O4'-C1'-C2'	-11.67	95.93	107.60
36	B2	1239	U	P-O3'-C3'	-11.66	102.71	120.20
52	CS	20	PRO	CA-C-N	-11.66	99.28	121.54
52	CS	20	PRO	C-N-CA	-11.66	99.28	121.54
85	A5	2761	U	P-O5'-C5'	11.66	138.38	120.90
87	A8	96	C	P-O3'-C3'	11.65	137.68	120.20
36	B2	738	C	P-O3'-C3'	11.65	137.67	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
66	Cd	103	TYR	CB-CA-C	-11.64	91.52	110.14
36	B2	179	C	N1-C1'-C2'	11.63	129.44	112.00
85	A5	2666	U	O3'-P-O5'	11.63	121.44	104.00
61	Ch	38	GLY	CA-C-N	11.62	144.19	121.41
61	Ch	38	GLY	C-N-CA	11.62	144.19	121.41
36	B2	1557	C	O4'-C1'-N1	11.62	125.63	108.20
85	A5	4162	C	O4'-C1'-N1	11.62	125.93	108.50
85	A5	463	A	O4'-C1'-C2'	-11.61	95.99	107.60
36	B2	1554	C	C2'-C3'-O3'	-11.61	96.29	113.70
52	CS	37	HIS	CB-CA-C	-11.60	90.95	110.68
1	Az	779	THR	CA-C-N	-11.60	105.34	119.84
1	Az	779	THR	C-N-CA	-11.60	105.34	119.84
36	B2	1822	A	C4'-C3'-O3'	-11.59	95.61	113.00
45	Ca	27	LYS	N-CA-C	11.59	123.65	111.14
36	B2	1496	U	P-O3'-C3'	11.58	137.57	120.20
68	Cf	100	ARG	O-C-N	-11.58	108.41	122.65
85	A5	489	C	P-O3'-C3'	11.58	137.57	120.20
36	B2	880	G	O4'-C1'-N9	11.57	125.86	108.50
85	A5	4635	A	O4'-C1'-N9	11.57	125.56	108.20
85	A5	3712	A	O4'-C1'-N9	11.56	125.54	108.20
85	A5	150	U	C4'-C3'-O3'	11.55	126.73	109.40
87	A8	110	U	C4'-C3'-O3'	11.55	126.73	109.40
85	A5	3672	G	P-O3'-C3'	11.55	137.52	120.20
85	A5	1719	A	C4'-C3'-O3'	11.55	130.32	113.00
85	A5	1276	C	O3'-P-O5'	-11.54	86.70	104.00
36	B2	324	C	O4'-C1'-N1	11.53	125.79	108.50
60	Cr	37	SER	CA-CB-OG	11.53	134.15	111.10
8	AS	88	LYS	CA-C-N	-11.52	99.53	121.54
8	AS	88	LYS	C-N-CA	-11.52	99.53	121.54
30	AF	131	ALA	N-CA-C	11.52	126.64	112.58
81	CE	134	SER	O-C-N	-11.52	107.27	122.59
85	A5	4949	G	O3'-P-O5'	11.52	121.27	104.00
85	A5	686	A	O4'-C1'-C2'	-11.51	96.09	107.60
36	B2	1332	A	O4'-C1'-C2'	-11.51	96.09	107.60
85	A5	505	G	P-O3'-C3'	11.50	137.45	120.20
36	B2	1300	U	O4'-C1'-N1	11.50	125.45	108.20
3	AU	103	SER	CA-C-N	-11.49	101.28	121.97
3	AU	103	SER	C-N-CA	-11.49	101.28	121.97
36	B2	785	C	P-O3'-C3'	11.48	137.43	120.20
36	B2	1535	U	C4'-C3'-O3'	11.48	126.62	109.40
82	CG	59	ARG	N-CA-C	-11.47	86.37	110.80
85	A5	2239	C	P-O3'-C3'	11.47	137.40	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1520	G	N9-C1'-C2'	11.45	129.17	112.00
85	A5	740	G	P-O3'-C3'	11.45	137.37	120.20
86	A7	49	A	O5'-C5'-C4'	11.44	128.66	111.50
1	Az	71	LYS	CA-C-N	-11.44	106.86	122.99
1	Az	71	LYS	C-N-CA	-11.44	106.86	122.99
34	AQ	18	THR	CA-CB-OG1	11.44	126.75	109.60
36	B2	738	C	N1-C1'-C2'	11.44	129.16	112.00
36	B2	1782	G	O4'-C1'-N9	11.43	125.65	108.50
85	A5	982	U	O4'-C1'-N1	11.43	125.65	108.50
85	A5	1474	C	P-O3'-C3'	11.43	137.35	120.20
85	A5	1265	G	N9-C1'-C2'	11.43	129.14	112.00
36	B2	1265	A	N9-C1'-C2'	11.42	131.13	114.00
55	CU	117	ILE	N-CA-C	11.42	124.31	109.58
29	AG	180	VAL	CB-CA-C	-11.42	92.57	111.29
36	B2	911	C	P-O5'-C5'	11.41	138.02	120.90
36	B2	1365	G	C4'-C3'-O3'	-11.41	95.88	113.00
38	Cz	26	ARG	CB-CA-C	-11.41	87.72	110.42
85	A5	4871	C	P-O3'-C3'	11.41	137.31	120.20
74	CC	307	LYS	CA-CB-CG	11.41	136.91	114.10
85	A5	3810	C	O4'-C1'-N1	11.40	125.31	108.20
36	B2	170	A	O4'-C1'-C2'	11.40	119.00	107.60
85	A5	2552	G	P-O3'-C3'	-11.40	103.10	120.20
59	CZ	52	LYS	N-CA-C	11.40	126.76	108.41
85	A5	1282	G	P-O3'-C3'	11.39	137.29	120.20
14	AT	93	SER	N-CA-CB	11.39	132.09	111.36
36	B2	488	U	P-O3'-C3'	11.39	137.29	120.20
12	AR	1	MET	CA-C-O	11.39	140.16	120.80
57	CY	42	TYR	O-C-N	11.38	134.86	122.34
85	A5	1817	U	C4'-C3'-O3'	-11.38	95.93	113.00
11	AL	17	PHE	O-C-N	11.37	137.49	123.16
85	A5	1214	C	O4'-C1'-N1	11.37	125.56	108.50
85	A5	2090	U	P-O5'-C5'	11.37	137.95	120.90
39	Cq	33	ASP	CA-C-N	11.32	140.67	123.23
39	Cq	33	ASP	C-N-CA	11.32	140.67	123.23
85	A5	4887	C	P-O3'-C3'	11.32	137.19	120.20
85	A5	746	A	P-O3'-C3'	11.32	137.18	120.20
85	A5	4127	A	P-O3'-C3'	11.32	137.18	120.20
36	B2	24	C	O3'-P-O5'	-11.31	87.03	104.00
36	B2	464	A	P-O3'-C3'	-11.31	103.24	120.20
36	B2	548	C	P-O3'-C3'	11.31	137.16	120.20
36	B2	1394	G	P-O3'-C3'	11.30	137.15	120.20
85	A5	2020	U	O4'-C1'-C2'	-11.30	96.30	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2473	A	P-O3'-C3'	11.30	137.15	120.20
85	A5	2090	U	O4'-C1'-N1	11.29	125.14	108.20
36	B2	307	G	O4'-C1'-N9	11.29	125.43	108.50
6	AX	22	TRP	CA-C-N	-11.28	104.03	120.28
6	AX	22	TRP	C-N-CA	-11.28	104.03	120.28
82	CG	134	PRO	CA-C-N	11.28	139.67	121.62
82	CG	134	PRO	C-N-CA	11.28	139.67	121.62
47	CI	107	GLY	N-CA-C	-11.27	86.47	113.18
85	A5	215	C	P-O3'-C3'	11.27	137.10	120.20
39	Cq	33	ASP	CA-C-O	-11.27	104.40	120.51
85	A5	2825	A	P-O3'-C3'	11.26	137.09	120.20
85	A5	4906	C	N1-C1'-C2'	11.26	128.89	112.00
36	B2	790	C	P-O3'-C3'	11.25	137.08	120.20
85	A5	234	G	O4'-C1'-N9	11.25	125.08	108.20
36	B2	724	A	P-O3'-C3'	11.25	137.07	120.20
36	B2	1851	A	O4'-C1'-C2'	-11.24	96.36	107.60
85	A5	4874	A	O4'-C1'-N9	11.24	125.36	108.50
85	A5	1828	C	C2'-C3'-O3'	11.24	130.56	113.70
81	CE	190	HIS	O-C-N	-11.23	110.18	123.10
42	CL	166	ALA	O-C-N	-11.23	107.66	122.59
36	B2	183	G	N9-C1'-C2'	11.23	128.84	112.00
85	A5	2015	U	O4'-C1'-C2'	-11.22	96.38	107.60
36	B2	851	C	O3'-P-O5'	-11.21	87.18	104.00
85	A5	4949	G	P-O3'-C3'	11.21	137.02	120.20
85	A5	2653	C	N1-C1'-C2'	11.21	128.82	112.00
85	A5	1186	U	N1-C1'-C2'	-11.21	95.19	112.00
85	A5	1254	A	N9-C1'-C2'	11.21	128.81	112.00
26	AJ	165	TYR	CB-CA-C	11.20	128.23	109.75
81	CE	115	TYR	CA-C-N	11.20	149.12	121.80
81	CE	115	TYR	C-N-CA	11.20	149.12	121.80
60	Cr	91	SER	CB-CA-C	-11.19	92.16	110.74
81	CE	127	SER	CA-CB-OG	11.19	133.48	111.10
48	CD	260	GLU	N-CA-C	11.19	134.63	110.80
85	A5	1825	A	O4'-C1'-C2'	-11.19	96.41	107.60
1	Az	121	VAL	CA-C-N	11.19	139.04	121.26
1	Az	121	VAL	C-N-CA	11.19	139.04	121.26
85	A5	2116	C	P-O3'-C3'	11.19	136.98	120.20
40	CK	102	GLY	N-CA-C	11.18	133.88	113.76
85	A5	2767	U	P-O5'-C5'	11.18	137.67	120.90
85	A5	3749	C	N1-C1'-C2'	11.18	128.77	112.00
85	A5	1294	A	P-O3'-C3'	11.18	136.97	120.20
85	A5	4306	U	O4'-C1'-C2'	-11.18	96.42	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	5059	C	P-O3'-C3'	11.17	136.96	120.20
69	Cg	81	SER	CA-C-N	11.17	143.06	122.74
69	Cg	81	SER	C-N-CA	11.17	143.06	122.74
74	CC	356	ALA	O-C-N	11.17	135.28	122.22
36	B2	109	U	C4'-C3'-O3'	-11.16	96.25	113.00
85	A5	2258	C	N1-C1'-C2'	11.16	128.74	112.00
4	AK	87	PRO	CA-C-N	11.16	142.86	121.54
4	AK	87	PRO	C-N-CA	11.16	142.86	121.54
85	A5	1268	G	N9-C1'-C2'	11.16	130.74	114.00
85	A5	2268	A	P-O3'-C3'	11.15	136.93	120.20
28	AC	172	ASN	N-CA-C	11.15	128.48	107.75
36	B2	133	C	P-O3'-C3'	11.15	136.92	120.20
85	A5	931	C	O4'-C1'-C2'	11.15	116.95	105.80
40	CK	44	ASP	CA-C-O	-11.14	109.30	121.00
57	CY	86	GLN	N-CA-C	11.14	124.87	108.60
85	A5	432	U	O4'-C1'-N1	11.14	125.21	108.50
12	AR	1	MET	N-CA-C	-11.14	79.81	111.00
85	A5	2110	C	O4'-C1'-C2'	-11.14	94.66	105.80
85	A5	2109	G	N9-C1'-C2'	11.13	128.69	112.00
54	CP	5	SER	CA-C-O	-11.12	104.61	120.51
58	CW	73	ARG	O-C-N	11.12	137.38	122.59
40	CK	2	PRO	CB-CG-CD	-11.12	70.53	106.10
85	A5	2258	C	C1'-O4'-C4'	-11.11	98.79	109.90
29	AG	131	ARG	CA-C-N	-11.10	101.81	120.68
29	AG	131	ARG	C-N-CA	-11.10	101.81	120.68
64	CF	23	ARG	N-CA-C	11.10	134.45	110.80
33	AI	5	ARG	O-C-N	-11.10	109.55	122.20
36	B2	1416	C	P-O3'-C3'	11.10	136.84	120.20
1	Az	267	ASP	O-C-N	-11.09	112.11	121.54
35	Ah	294	LYS	O-C-N	-11.09	106.23	122.43
85	A5	1407	C	O4'-C1'-C2'	-11.09	96.51	107.60
81	CE	163	VAL	N-CA-C	11.09	124.08	108.12
36	B2	1472	C	C4'-C3'-O3'	11.08	129.62	113.00
36	B2	53	C	O4'-C1'-C2'	-11.07	96.53	107.60
63	CB	297	LYS	O-C-N	-11.07	108.84	123.23
85	A5	2108	G	P-O5'-C5'	11.07	137.50	120.90
85	A5	1345	A	O4'-C1'-C2'	-11.06	96.53	107.60
12	AR	86	PRO	CA-N-CD	-11.06	96.52	112.00
36	B2	529	A	P-O3'-C3'	-11.06	103.61	120.20
85	A5	452	A	P-O3'-C3'	11.05	136.78	120.20
28	AC	84	PHE	CA-CB-CG	-11.05	102.75	113.80
36	B2	1511	U	O4'-C1'-C2'	-11.05	96.55	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1830	U	P-O3'-C3'	11.03	136.75	120.20
85	A5	314	G	P-O3'-C3'	-11.04	103.65	120.20
85	A5	296	A	O4'-C1'-N9	11.03	125.05	108.50
60	Cr	103	ARG	CA-C-N	-11.02	106.06	119.84
60	Cr	103	ARG	C-N-CA	-11.02	106.06	119.84
85	A5	2695	A	O4'-C1'-N9	11.02	124.73	108.20
85	A5	1286	C	P-O5'-C5'	11.02	137.42	120.90
85	A5	3766	A	P-O3'-C3'	-11.02	103.68	120.20
85	A5	4058	U	O4'-C1'-C2'	-11.02	96.58	107.60
36	B2	692	G	P-O3'-C3'	11.01	136.72	120.20
85	A5	4050	A	C3'-C2'-C1'	11.01	112.31	101.30
36	B2	1567	G	O4'-C1'-N9	11.00	125.00	108.50
85	A5	497	G	P-O3'-C3'	11.00	136.71	120.20
31	AH	118	ARG	NE-CZ-NH2	-10.99	109.31	119.20
85	A5	1222	A	P-O3'-C3'	10.99	136.69	120.20
48	CD	267	ASN	O-C-N	10.97	136.28	122.89
85	A5	2651	C	P-O3'-C3'	10.97	136.66	120.20
15	AB	37	ALA	CA-C-N	-10.97	102.40	120.72
15	AB	37	ALA	C-N-CA	-10.97	102.40	120.72
36	B2	1242	U	N1-C1'-C2'	10.97	130.46	114.00
85	A5	655	C	C4'-C3'-O3'	-10.97	96.55	113.00
85	A5	2695	A	P-O3'-C3'	10.96	136.65	120.20
85	A5	5025	C	C4'-C3'-O3'	10.97	129.45	113.00
85	A5	1446	C	P-O3'-C3'	10.96	136.64	120.20
36	B2	1500	G	N9-C1'-C2'	10.96	128.43	112.00
20	Aa	10	ARG	NE-CZ-NH2	10.95	129.06	119.20
66	Cd	108	TYR	CA-C-N	-10.95	105.94	123.46
66	Cd	108	TYR	C-N-CA	-10.95	105.94	123.46
87	A8	111	U	C5'-C4'-C3'	10.95	131.62	115.20
49	CQ	9	LYS	N-CA-C	10.94	124.97	110.53
52	CS	152	PHE	CA-CB-CG	10.94	124.74	113.80
36	B2	556	U	P-O5'-C5'	10.94	137.31	120.90
62	Cb	50	ASN	CB-CA-C	10.94	128.95	110.79
36	B2	853	C	O3'-P-O5'	10.92	120.38	104.00
85	A5	692	A	O4'-C1'-C2'	-10.92	96.68	107.60
85	A5	2256	C	O4'-C1'-N1	10.91	124.87	108.50
33	AI	31	ARG	N-CA-C	10.91	118.04	108.22
85	A5	2258	C	C3'-C2'-C1'	-10.90	90.40	101.30
85	A5	4051	C	O4'-C1'-C2'	-10.90	96.70	107.60
17	AV	67	ASP	CB-CA-C	10.89	128.10	110.90
85	A5	1753	G	O3'-P-O5'	10.89	120.33	104.00
53	CT	70	HIS	N-CA-C	-10.89	87.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1369	C	N1-C1'-C2'	10.89	130.33	114.00
85	A5	4336	A	P-O3'-C3'	10.88	136.52	120.20
85	A5	4048	A	O4'-C1'-N9	10.88	124.51	108.20
36	B2	1743	G	N9-C1'-C2'	10.87	128.31	112.00
85	A5	4476	C	O4'-C1'-N1	10.87	124.81	108.50
85	A5	1590	C	P-O3'-C3'	10.87	136.50	120.20
85	A5	1709	C	C4'-C3'-O3'	10.87	126.30	110.00
85	A5	2460	A	N9-C1'-C2'	10.87	128.30	112.00
85	A5	4232	U	P-O3'-C3'	10.86	136.50	120.20
47	CI	202	SER	CA-C-N	10.86	136.14	120.82
47	CI	202	SER	C-N-CA	10.86	136.14	120.82
85	A5	112	C	N1-C1'-C2'	10.86	128.28	112.00
60	Cr	110	ALA	N-CA-C	10.85	124.13	111.11
55	CU	76	VAL	N-CA-CB	10.84	126.39	111.21
36	B2	798	G	P-O3'-C3'	10.84	136.45	120.20
20	Aa	97	PRO	N-CA-CB	-10.83	92.58	103.08
74	CC	307	LYS	O-C-N	-10.83	108.19	122.59
81	CE	87	LYS	O-C-N	-10.82	108.19	122.59
85	A5	727	C	P-O3'-C3'	10.82	136.44	120.20
28	AC	113	GLN	N-CA-C	10.82	124.40	108.60
56	CX	53	ARG	N-CA-CB	-10.82	93.12	110.11
35	Ah	179	MET	O-C-N	-10.81	110.17	123.36
85	A5	1287	G	P-O3'-C3'	10.81	136.42	120.20
85	A5	1501	C	P-O3'-C3'	10.81	136.42	120.20
85	A5	1708	G	P-O5'-C5'	10.81	136.22	120.00
3	AU	68	THR	CB-CA-C	10.80	126.66	109.27
36	B2	734	C	O4'-C1'-C2'	-10.80	96.80	107.60
85	A5	666	G	P-O3'-C3'	10.80	136.39	120.20
85	A5	650	C	P-O5'-C5'	10.79	137.09	120.90
47	CI	212	LEU	N-CA-C	10.78	127.07	110.36
20	Aa	10	ARG	CB-CG-CD	10.77	136.07	111.30
85	A5	150	U	P-O5'-C5'	10.77	137.06	120.90
85	A5	2691	U	C4'-C3'-O3'	-10.77	96.84	113.00
4	AK	42	ASN	N-CA-C	-10.77	95.70	110.35
36	B2	1445	U	C4'-C3'-O3'	-10.77	96.85	113.00
61	Ch	5	LYS	CA-C-N	10.77	134.44	120.44
61	Ch	5	LYS	C-N-CA	10.77	134.44	120.44
85	A5	669	C	O4'-C1'-C2'	-10.77	95.03	105.80
85	A5	4560	C	O3'-P-O5'	-10.77	87.85	104.00
85	A5	149	A	O3'-P-O5'	-10.76	87.86	104.00
39	Cq	69	LEU	O-C-N	-10.75	108.29	122.59
36	B2	731	G	O3'-P-O5'	10.75	120.12	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
82	CG	179	VAL	N-CA-C	10.75	120.73	108.05
85	A5	886	C	P-O3'-C3'	10.75	136.32	120.20
85	A5	4114	C	N1-C1'-C2'	10.75	128.12	112.00
36	B2	1721	U	O4'-C1'-C2'	-10.74	96.86	107.60
85	A5	2544	G	N9-C1'-C2'	10.74	128.11	112.00
8	AS	53	THR	O-C-N	-10.73	108.32	122.59
36	B2	1188	A	O4'-C1'-C2'	-10.72	96.88	107.60
85	A5	1240	G	O4'-C1'-N9	10.72	124.58	108.50
85	A5	4565	C	O5'-C5'-C4'	-10.72	95.42	111.50
36	B2	1086	G	O3'-P-O5'	-10.72	87.92	104.00
85	A5	1568	C	N1-C1'-C2'	10.71	128.07	112.00
36	B2	1116	C	O4'-C1'-N1	10.71	124.27	108.20
85	A5	5061	A	P-O3'-C3'	10.71	136.27	120.20
42	CL	164	GLU	O-C-N	-10.71	111.01	123.22
36	B2	1825	A	O4'-C1'-N9	10.71	124.56	108.50
85	A5	1266	G	C1'-O4'-C4'	-10.71	98.99	109.70
85	A5	2046	G	P-O3'-C3'	10.71	136.26	120.20
85	A5	1612	G	N9-C1'-C2'	10.70	130.05	114.00
85	A5	2022	C	N1-C1'-C2'	10.69	128.04	112.00
85	A5	3972	A	O3'-P-O5'	-10.69	87.96	104.00
36	B2	1418	C	P-O5'-C5'	10.69	136.93	120.90
62	Cb	50	ASN	CA-CB-CG	10.69	123.28	112.60
30	AF	38	TYR	N-CA-C	-10.68	99.71	113.17
86	A7	64	G	C4'-C3'-O3'	-10.68	96.98	113.00
85	A5	931	C	O4'-C1'-N1	10.68	124.21	108.20
85	A5	1338	G	O4'-C1'-N9	10.68	124.21	108.20
3	AU	71	GLY	N-CA-C	10.67	138.47	113.18
85	A5	1359	G	O3'-P-O5'	-10.67	87.99	104.00
85	A5	1266	G	P-O3'-C3'	10.67	136.21	120.20
85	A5	2111	G	O4'-C1'-N9	10.67	124.50	108.50
85	A5	2258	C	C1'-C2'-O2'	10.67	124.40	108.40
36	B2	243	C	P-O3'-C3'	10.66	136.20	120.20
36	B2	446	G	N9-C1'-C2'	10.66	127.99	112.00
64	CF	21	LYS	CG-CD-CE	10.66	135.81	111.30
74	CC	308	LYS	CA-C-O	-10.66	107.59	120.81
36	B2	1779	G	P-O3'-C3'	10.66	136.19	120.20
36	B2	580	U	C4'-C3'-O3'	10.65	128.98	113.00
81	CE	70	LYS	CA-C-O	10.65	131.84	120.55
85	A5	3711	A	O4'-C1'-N9	10.65	124.48	108.50
85	A5	1370	G	O4'-C1'-C2'	-10.65	96.95	107.60
85	A5	4709	U	N1-C1'-C2'	10.65	127.97	112.00
85	A5	1270	A	P-O3'-C3'	10.64	136.17	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	CU	59	GLY	O-C-N	10.64	136.53	122.70
85	A5	1409	C	O4'-C1'-C2'	-10.64	95.16	105.80
85	A5	1827	C	C4'-C3'-O3'	-10.63	97.05	113.00
74	CC	86	ARG	CA-C-N	-10.63	105.90	123.33
74	CC	86	ARG	C-N-CA	-10.63	105.90	123.33
85	A5	1252	C	O4'-C1'-C2'	-10.63	96.97	107.60
36	B2	553	U	O4'-C1'-C2'	-10.63	96.97	107.60
6	AX	23	HIS	CB-CA-C	10.63	130.29	110.63
85	A5	4871	C	P-O5'-C5'	10.63	136.84	120.90
44	CM	90	ARG	N-CA-CB	10.62	126.58	110.22
85	A5	80	C	N1-C1'-C2'	10.62	127.93	112.00
85	A5	957	G	P-O3'-C3'	10.62	136.13	120.20
85	A5	3268	U	P-O3'-C3'	10.61	136.11	120.20
74	CC	13	GLU	N-CA-C	10.60	133.39	110.80
56	CX	52	LEU	CA-C-N	10.60	136.99	122.79
56	CX	52	LEU	C-N-CA	10.60	136.99	122.79
85	A5	1343	A	O4'-C1'-C2'	-10.59	97.01	107.60
85	A5	265	C	O4'-C1'-C2'	-10.59	95.21	105.80
36	B2	323	C	P-O3'-C3'	10.58	136.07	120.20
74	CC	261	ASP	O-C-N	-10.58	108.64	122.39
36	B2	285	U	P-O3'-C3'	10.58	136.07	120.20
36	B2	990	A	N9-C1'-C2'	10.58	129.87	114.00
85	A5	4085	A	P-O3'-C3'	10.58	136.06	120.20
36	B2	1138	C	C4'-C3'-O3'	-10.57	97.14	113.00
81	CE	126	LEU	CA-C-O	-10.56	108.86	121.32
85	A5	654	C	P-O3'-C3'	10.56	136.04	120.20
36	B2	335	G	O4'-C1'-N9	10.56	124.34	108.50
11	AL	147	LYS	N-CA-C	10.55	133.28	110.80
37	BC	55	C	N1-C1'-C2'	10.55	127.83	112.00
85	A5	4117	U	O4'-C1'-N1	10.55	124.32	108.50
26	AJ	118	GLY	O-C-N	-10.55	108.99	122.70
36	B2	628	A	O4'-C1'-N9	10.54	124.32	108.50
58	CW	71	ARG	CB-CG-CD	10.54	135.56	111.30
85	A5	314	G	C4'-C3'-O3'	-10.54	97.18	113.00
87	A8	21	C	O4'-C1'-C2'	-10.54	97.06	107.60
53	CT	29	THR	CA-C-N	-10.54	103.69	121.92
53	CT	29	THR	C-N-CA	-10.54	103.69	121.92
36	B2	1139	C	C4'-C3'-O3'	-10.53	97.20	113.00
40	CK	136	ALA	O-C-N	-10.53	108.58	122.59
85	A5	1297	U	O4'-C1'-C2'	-10.53	97.07	107.60
35	Ah	151	PHE	N-CA-C	10.53	133.22	110.80
49	CQ	6	ARG	NE-CZ-NH1	10.53	132.03	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2106	G	O4'-C1'-N9	10.53	124.29	108.50
74	CC	338	ASN	N-CA-C	-10.53	93.58	110.32
36	B2	1862	G	O4'-C1'-C2'	-10.52	95.28	105.80
36	B2	1746	U	C4'-C3'-O3'	10.52	128.78	113.00
66	Cd	19	GLU	N-CA-C	-10.52	101.07	113.38
85	A5	1398	A	O4'-C1'-C2'	10.52	116.32	105.80
31	AH	111	LYS	N-CA-C	-10.51	87.74	107.71
36	B2	862	A	N9-C1'-C2'	10.51	127.77	112.00
85	A5	4196	G	C3'-C2'-C1'	10.51	111.81	101.30
52	CS	152	PHE	CA-C-O	-10.50	105.77	120.16
85	A5	2225	C	P-O3'-C3'	10.50	135.95	120.20
36	B2	909	G	C4'-C3'-O3'	10.49	128.73	113.00
36	B2	1301	A	C4'-C3'-O3'	10.48	128.73	113.00
1	Az	432	PRO	CA-C-N	-10.48	106.23	122.37
1	Az	432	PRO	C-N-CA	-10.48	106.23	122.37
81	CE	105	ARG	CA-C-N	10.48	140.84	121.97
81	CE	105	ARG	C-N-CA	10.48	140.84	121.97
85	A5	1270	A	C4'-C3'-C2'	-10.48	92.12	102.60
85	A5	4891	G	P-O5'-C5'	10.48	136.62	120.90
81	CE	105	ARG	N-CA-C	10.48	125.65	108.26
40	CK	34	PRO	CA-N-CD	-10.47	97.34	112.00
85	A5	983	C	P-O5'-C5'	10.47	136.61	120.90
85	A5	1755	C	O3'-P-O5'	10.47	119.71	104.00
85	A5	4626	A	O4'-C1'-C2'	10.47	116.27	105.80
72	Ck	62	PRO	CA-C-O	10.46	129.05	121.31
85	A5	1505	C	O4'-C1'-C2'	-10.47	97.13	107.60
85	A5	1705	G	P-O3'-C3'	10.46	135.90	120.20
86	A7	63	C	N1-C1'-C2'	10.46	127.70	112.00
36	B2	1509	U	C4'-C3'-O3'	-10.46	93.71	109.40
42	CL	25	TRP	N-CA-CB	10.46	126.29	110.70
36	B2	1276	A	O4'-C1'-C2'	-10.45	97.15	107.60
36	B2	1868	U	P-O3'-C3'	10.45	135.88	120.20
87	A8	76	C	O4'-C1'-C2'	-10.45	97.15	107.60
85	A5	4888	U	P-O3'-C3'	10.45	135.87	120.20
85	A5	2007	G	O4'-C1'-N9	10.45	123.87	108.20
85	A5	4942	C	N1-C1'-C2'	10.45	129.67	114.00
81	CE	69	TYR	CA-C-N	10.43	134.26	120.28
81	CE	69	TYR	C-N-CA	10.43	134.26	120.28
1	Az	826	ASP	N-CA-C	-10.43	96.77	110.43
3	AU	106	ILE	N-CA-C	10.43	123.99	108.46
50	CR	79	GLY	CA-C-N	-10.43	103.88	121.92
50	CR	79	GLY	C-N-CA	-10.43	103.88	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2289	C	C3'-C2'-C1'	10.43	111.73	101.30
85	A5	1240	G	C1'-O4'-C4'	10.42	120.32	109.90
85	A5	4084	G	P-O3'-C3'	10.42	135.83	120.20
86	A7	121	U	P-O5'-C5'	10.42	136.53	120.90
36	B2	798	G	O4'-C1'-C2'	-10.42	95.38	105.80
52	CS	163	HIS	N-CA-C	-10.42	99.92	111.07
85	A5	2119	C	P-O3'-C3'	10.42	135.83	120.20
85	A5	2370	A	P-O3'-C3'	10.41	135.82	120.20
1	Az	427	VAL	CB-CA-C	-10.41	98.34	110.73
85	A5	479	G	P-O3'-C3'	10.41	135.81	120.20
85	A5	1364	U	O4'-C1'-N1	10.41	124.11	108.50
85	A5	1698	C	N1-C1'-C2'	10.41	127.62	112.00
48	CD	170	GLY	CA-C-N	10.40	141.41	121.54
48	CD	170	GLY	C-N-CA	10.40	141.41	121.54
85	A5	4308	C	O4'-C1'-C2'	-10.40	97.20	107.60
85	A5	1915	C	O4'-C1'-N1	10.40	123.80	108.20
85	A5	4004	G	P-O3'-C3'	10.40	135.80	120.20
85	A5	1365	C	P-O3'-C3'	10.40	135.79	120.20
85	A5	246	G	P-O5'-C5'	10.39	136.48	120.90
85	A5	1302	U	O4'-C1'-N1	10.38	124.08	108.50
36	B2	1122	A	O4'-C1'-C2'	-10.38	97.22	107.60
74	CC	330	PRO	CA-N-CD	-10.38	97.47	112.00
85	A5	4569	U	P-O3'-C3'	10.38	135.76	120.20
44	CM	70	GLN	CA-C-O	-10.37	105.68	120.51
36	B2	1553	C	C3'-C2'-C1'	-10.37	90.93	101.30
85	A5	2123	C	O4'-C1'-N1	10.37	124.06	108.50
45	Ca	52	TYR	N-CA-C	10.37	122.16	111.07
85	A5	3967	G	C1'-O4'-C4'	-10.37	99.53	109.90
1	Az	392	GLY	CA-C-N	10.36	130.12	119.76
1	Az	392	GLY	C-N-CA	10.36	130.12	119.76
36	B2	192	C	C4'-C3'-O3'	10.36	128.54	113.00
38	Cz	207	LYS	CB-CA-C	-10.36	90.56	111.91
8	AS	88	LYS	CB-CA-C	10.36	131.36	112.30
36	B2	183	G	C1'-O4'-C4'	-10.35	99.55	109.90
37	BC	75	A	P-O5'-C5'	10.35	136.43	120.90
20	Aa	96	THR	O-C-N	10.35	133.22	121.32
85	A5	4156	G	O4'-C1'-N9	10.35	124.03	108.50
36	B2	141	A	O4'-C1'-C2'	-10.35	95.45	105.80
12	AR	94	GLU	N-CA-C	-10.35	96.79	110.24
36	B2	534	G	C4'-C3'-O3'	10.35	128.52	113.00
36	B2	1863	A	O4'-C1'-C2'	-10.35	95.45	105.80
48	CD	268	ARG	CA-C-N	-10.34	106.91	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	CD	268	ARG	C-N-CA	-10.34	106.91	119.84
36	B2	588	G	O3'-P-O5'	-10.34	88.49	104.00
36	B2	1078	C	N1-C1'-C2'	10.33	127.50	112.00
40	CK	2	PRO	CA-CB-CG	10.33	124.14	104.50
85	A5	2473	A	O3'-P-O5'	10.33	119.50	104.00
36	B2	1408	U	N1-C1'-C2'	10.33	127.49	112.00
85	A5	917	A	P-O3'-C3'	10.33	135.69	120.20
85	A5	4532	U	P-O3'-C3'	10.33	135.69	120.20
64	CF	98	ILE	N-CA-C	10.32	126.49	112.04
42	CL	165	LYS	CA-C-N	10.32	141.25	121.54
42	CL	165	LYS	C-N-CA	10.32	141.25	121.54
42	CL	161	TYR	N-CA-CB	10.32	127.93	110.49
70	Ci	78	GLY	CA-C-N	-10.32	104.10	121.64
70	Ci	78	GLY	C-N-CA	-10.32	104.10	121.64
36	B2	1721	U	O4'-C1'-N1	10.32	123.98	108.50
85	A5	4885	U	P-O3'-C3'	10.32	135.68	120.20
85	A5	4954	G	O4'-C1'-N9	10.32	123.98	108.50
36	B2	1746	U	P-O3'-C3'	10.31	135.67	120.20
85	A5	2488	C	N1-C1'-C2'	10.31	127.47	112.00
74	CC	24	LEU	C-N-CD	-10.31	82.73	125.00
85	A5	4710	C	N1-C1'-C2'	10.31	127.46	112.00
85	A5	3663	A	N9-C1'-C2'	10.30	129.45	114.00
36	B2	833	C	P-O3'-C3'	10.29	135.64	120.20
36	B2	24	C	P-O3'-C3'	10.29	135.63	120.20
36	B2	327	G	O4'-C1'-N9	10.29	123.63	108.20
60	Cr	96	MET	CG-SD-CE	-10.28	78.28	100.90
74	CC	307	LYS	CB-CA-C	-10.28	89.96	110.42
85	A5	186	G	P-O3'-C3'	10.28	135.62	120.20
85	A5	1239	C	P-O3'-C3'	10.28	135.62	120.20
85	A5	972	C	P-O3'-C3'	10.28	135.62	120.20
60	Cr	37	SER	N-CA-C	10.27	132.67	110.80
36	B2	1430	C	O4'-C1'-N1	10.26	123.89	108.50
85	A5	4060	U	O4'-C1'-C2'	-10.26	97.34	107.60
44	CM	3	PHE	CA-C-N	10.26	141.14	121.54
44	CM	3	PHE	C-N-CA	10.26	141.14	121.54
85	A5	3946	G	P-O3'-C3'	10.26	135.59	120.20
1	Az	196	GLU	N-CA-C	-10.26	95.10	110.28
87	A8	41	A	O4'-C1'-C2'	-10.25	97.35	107.60
85	A5	1308	C	O4'-C1'-C2'	-10.24	97.36	107.60
56	CX	155	ILE	CA-CB-CG1	10.24	127.80	110.40
85	A5	4233	A	O4'-C1'-N9	10.24	123.56	108.20
60	Cr	107	ARG	O-C-N	-10.23	108.98	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2111	G	P-O3'-C3'	10.23	135.54	120.20
85	A5	3962	A	O4'-C1'-N9	10.23	123.54	108.20
74	CC	109	ARG	N-CA-C	10.22	123.82	110.43
12	AR	42	PRO	CA-N-CD	-10.22	97.69	112.00
82	CG	105	GLU	O-C-N	10.22	133.51	123.29
85	A5	1578	U	P-O3'-C3'	-10.22	104.87	120.20
20	Aa	80	HIS	N-CA-CB	-10.22	95.20	110.01
39	Cq	263	GLU	O-C-N	-10.21	109.00	122.59
47	CI	198	LYS	CA-C-N	10.21	137.35	123.05
47	CI	198	LYS	C-N-CA	10.21	137.35	123.05
85	A5	1102	U	O4'-C1'-C2'	-10.21	97.39	107.60
85	A5	4338	G	O4'-C1'-C2'	-10.21	95.59	105.80
86	A7	72	U	P-O3'-C3'	10.21	135.52	120.20
85	A5	118	C	C4'-C3'-O3'	10.21	128.31	113.00
41	CO	185	VAL	O-C-N	-10.21	111.91	121.91
85	A5	4036	G	P-O3'-C3'	10.20	135.51	120.20
67	Ce	15	LYS	CA-C-N	-10.20	103.54	121.29
67	Ce	15	LYS	C-N-CA	-10.20	103.54	121.29
85	A5	5041	G	O4'-C1'-C2'	10.20	117.80	107.60
85	A5	107	G	O4'-C1'-C2'	10.20	117.80	107.60
53	CT	23	GLY	CA-C-N	-10.20	107.77	122.45
53	CT	23	GLY	C-N-CA	-10.20	107.77	122.45
85	A5	958	G	N9-C1'-C2'	10.20	127.29	112.00
85	A5	4903	G	P-O3'-C3'	10.19	135.49	120.20
85	A5	2017	A	O3'-P-O5'	10.19	119.29	104.00
85	A5	7	C	N1-C1'-C2'	10.19	127.28	112.00
85	A5	654	C	N1-C1'-C2'	10.19	127.28	112.00
81	CE	74	SER	N-CA-CB	-10.18	93.28	110.49
85	A5	1293	G	P-O3'-C3'	10.18	135.48	120.20
40	CK	30	PRO	CA-N-CD	-10.18	97.75	112.00
37	BC	37	A	P-O3'-C3'	-10.18	104.94	120.20
54	CP	110	ASP	N-CA-C	-10.18	100.18	111.07
85	A5	754	U	O4'-C1'-C2'	-10.18	97.42	107.60
85	A5	4735	G	P-O3'-C3'	10.17	135.45	120.20
38	Cz	160	LYS	N-CA-CB	-10.17	91.11	109.10
57	CY	93	THR	N-CA-CB	-10.17	95.03	109.97
85	A5	911	U	P-O3'-C3'	10.17	135.45	120.20
36	B2	746	C	P-O3'-C3'	10.16	135.44	120.20
36	B2	772	G	P-O3'-C3'	10.16	135.45	120.20
87	A8	129	C	O4'-C1'-C2'	-10.16	97.44	107.60
85	A5	3940	U	P-O3'-C3'	10.15	135.43	120.20
36	B2	968	U	O4'-C1'-C2'	-10.15	97.45	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1362	U	O4'-C1'-N1	10.15	123.42	108.20
40	CK	26	SER	CA-C-N	10.15	138.52	122.59
40	CK	26	SER	C-N-CA	10.15	138.52	122.59
59	CZ	35	ASP	N-CA-C	-10.15	89.19	110.80
85	A5	2272	C	P-O3'-C3'	10.15	135.42	120.20
26	AJ	161	LEU	O-C-N	-10.14	109.10	122.59
85	A5	2691	U	P-O3'-C3'	-10.14	104.99	120.20
85	A5	2390	G	O4'-C1'-C2'	10.14	117.74	107.60
86	A7	1	G	O4'-C1'-C2'	-10.14	97.46	107.60
85	A5	2008	U	O4'-C1'-N1	10.14	123.70	108.50
85	A5	4041	C	O4'-C1'-C2'	-10.14	97.46	107.60
85	A5	3972	A	P-O3'-C3'	10.13	135.40	120.20
22	Ac	60	GLU	N-CA-C	-10.13	95.96	110.24
36	B2	1438	A	O4'-C1'-C2'	-10.13	97.47	107.60
34	AQ	18	THR	N-CA-C	-10.12	93.29	109.59
85	A5	657	C	P-O5'-C5'	10.12	136.09	120.90
85	A5	2775	C	O4'-C1'-C2'	-10.12	97.47	107.60
8	AS	138	THR	CA-C-N	-10.12	112.11	123.04
8	AS	138	THR	C-N-CA	-10.12	112.11	123.04
36	B2	536	A	C4'-C3'-O3'	10.12	128.18	113.00
36	B2	168	C	N1-C1'-C2'	10.12	127.18	112.00
85	A5	1273	G	O4'-C1'-N9	10.12	123.68	108.50
85	A5	3938	G	O4'-C1'-N9	10.12	123.38	108.20
1	Az	154	VAL	N-CA-C	-10.11	93.41	108.17
74	CC	322	LEU	O-C-N	-10.11	107.42	122.28
85	A5	346	G	O4'-C1'-C2'	10.11	117.71	107.60
1	Az	495	ARG	O-C-N	-10.11	110.38	122.81
19	AZ	107	VAL	N-CA-C	10.10	120.12	110.42
26	AJ	93	LYS	CA-C-N	10.10	140.83	121.54
26	AJ	93	LYS	C-N-CA	10.10	140.83	121.54
75	Cm	127	VAL	CB-CA-C	-10.10	96.23	111.08
85	A5	1517	G	N9-C1'-C2'	10.09	127.14	112.00
36	B2	142	C	O4'-C1'-N1	10.09	123.34	108.20
85	A5	3823	G	O4'-C1'-C2'	-10.09	97.51	107.60
35	Ah	169	GLY	CA-C-N	10.09	140.81	121.54
35	Ah	169	GLY	C-N-CA	10.09	140.81	121.54
81	CE	114	ARG	N-CA-C	-10.09	100.23	112.54
87	A8	126	C	O4'-C1'-C2'	-10.09	95.72	105.80
36	B2	210	U	O3'-P-O5'	-10.08	88.88	104.00
85	A5	4946	U	O4'-C1'-N1	10.08	123.32	108.20
3	AU	104	ILE	N-CA-CB	10.08	127.86	111.23
85	A5	1756	U	C2'-C3'-O3'	10.08	128.82	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1834	A	N9-C1'-C2'	10.07	129.11	114.00
33	AI	132	GLU	CA-C-O	-10.07	108.86	121.55
35	Ah	162	ILE	CA-C-N	10.07	135.62	120.82
35	Ah	162	ILE	C-N-CA	10.07	135.62	120.82
82	CG	243	GLY	O-C-N	-10.07	111.70	121.77
28	AC	164	PRO	CA-C-O	-10.07	109.86	121.34
85	A5	1681	G	N9-C1'-C2'	10.06	127.09	112.00
31	AH	105	THR	CB-CA-C	10.06	126.79	110.29
85	A5	3692	A	O4'-C1'-C2'	-10.06	97.54	107.60
39	Cq	80	PRO	CA-C-N	-10.06	103.00	121.41
39	Cq	80	PRO	C-N-CA	-10.06	103.00	121.41
80	CH	108	ASN	N-CA-C	10.05	123.59	109.31
36	B2	1720	U	P-O3'-C3'	10.05	135.28	120.20
37	BC	17	G	O3'-P-O5'	-10.05	88.92	104.00
85	A5	3915	U	O4'-C1'-C2'	-10.05	97.55	107.60
58	CW	31	PHE	CA-C-N	-10.04	103.61	120.68
58	CW	31	PHE	C-N-CA	-10.04	103.61	120.68
85	A5	1794	A	O4'-C1'-C2'	-10.04	97.56	107.60
85	A5	4042	G	N9-C1'-C2'	10.04	127.05	112.00
49	CQ	6	ARG	CG-CD-NE	10.03	134.07	112.00
85	A5	351	C	N1-C1'-C2'	10.03	127.05	112.00
85	A5	3922	G	O4'-C1'-N9	10.03	123.24	108.20
85	A5	2506	G	N9-C1'-C2'	10.02	129.03	114.00
85	A5	1358	G	N9-C1'-C2'	10.02	127.03	112.00
36	B2	1262	C	N1-C1'-C2'	10.02	127.02	112.00
74	CC	323	ARG	CA-C-N	-10.01	103.88	120.30
74	CC	323	ARG	C-N-CA	-10.01	103.88	120.30
81	CE	92	VAL	O-C-N	10.01	135.09	122.57
81	CE	144	ILE	N-CA-C	-10.01	98.90	110.21
85	A5	2120	G	C3'-C2'-C1'	10.01	111.31	101.30
85	A5	4749	C	P-O5'-C5'	10.01	135.91	120.90
36	B2	1215	C	O4'-C1'-C2'	-10.01	95.80	105.80
52	CS	89	GLY	CA-C-N	-10.01	105.16	122.37
52	CS	89	GLY	C-N-CA	-10.01	105.16	122.37
1	Az	794	PHE	N-CA-C	-10.00	97.04	110.55
85	A5	654	C	O4'-C1'-C2'	-10.00	97.60	107.60
86	A7	114	U	O3'-P-O5'	-10.00	88.99	104.00
85	A5	1360	G	O4'-C1'-N9	10.00	123.50	108.50
59	CZ	90	PRO	CA-N-CD	-10.00	98.00	112.00
74	CC	335	MET	N-CA-CB	10.00	124.51	110.01
85	A5	292	G	N9-C1'-C2'	10.00	127.00	112.00
36	B2	1520	G	O3'-P-O5'	10.00	119.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	AE	151	ASP	CB-CA-C	10.00	121.61	109.31
36	B2	82	G	O4'-C1'-C2'	-10.00	97.60	107.60
36	B2	880	G	P-O3'-C3'	10.00	135.19	120.20
39	Cq	24	TYR	N-CA-C	10.00	131.90	109.81
85	A5	449	C	O3'-P-O5'	-10.00	89.00	104.00
85	A5	1754	U	C2'-C3'-O3'	-10.00	98.71	113.70
36	B2	626	G	C3'-C2'-C1'	9.99	111.29	101.30
85	A5	2806	A	P-O3'-C3'	9.99	135.19	120.20
63	CB	360	LEU	CA-C-N	-9.99	102.47	121.54
63	CB	360	LEU	C-N-CA	-9.99	102.47	121.54
81	CE	35	LYS	N-CA-CB	-9.99	93.61	110.49
85	A5	1482	G	O4'-C1'-N9	9.99	123.48	108.50
85	A5	2471	G	N9-C1'-C2'	-9.99	99.02	114.00
36	B2	557	U	N1-C1'-C2'	9.98	126.97	112.00
48	CD	33	ARG	CD-NE-CZ	9.98	138.38	124.40
36	B2	1309	C	O4'-C1'-C2'	-9.98	97.62	107.60
36	B2	918	U	N1-C1'-C2'	9.97	126.96	112.00
52	CS	73	LEU	CA-C-N	9.97	140.59	121.54
52	CS	73	LEU	C-N-CA	9.97	140.59	121.54
36	B2	73	C	O4'-C1'-C2'	-9.97	95.83	105.80
67	Ce	128	ARG	CA-C-N	-9.97	103.94	121.29
67	Ce	128	ARG	C-N-CA	-9.97	103.94	121.29
85	A5	1367	C	N1-C1'-C2'	-9.97	97.05	112.00
13	AP	36	LEU	N-CA-C	-9.97	93.02	109.07
36	B2	873	G	P-O3'-C3'	9.96	135.15	120.20
36	B2	887	U	P-O5'-C5'	9.96	135.85	120.90
85	A5	1240	G	O4'-C1'-C2'	-9.96	97.64	107.60
85	A5	969	C	P-O3'-C3'	9.96	135.14	120.20
17	AV	66	ASP	CA-C-N	-9.96	106.90	120.44
17	AV	66	ASP	C-N-CA	-9.96	106.90	120.44
85	A5	4318	C	O4'-C1'-C2'	-9.96	97.64	107.60
44	CM	6	PHE	O-C-N	-9.96	109.35	122.59
1	Az	495	ARG	CA-C-N	-9.95	104.06	121.97
1	Az	495	ARG	C-N-CA	-9.95	104.06	121.97
36	B2	1720	U	O4'-C1'-C2'	-9.95	97.65	107.60
36	B2	556	U	C4'-C3'-C2'	-9.95	92.65	102.60
42	CL	165	LYS	N-CA-CB	-9.95	93.68	110.49
20	Aa	10	ARG	CD-NE-CZ	9.94	138.31	124.40
85	A5	1274	A	O4'-C1'-C2'	-9.94	95.86	105.80
49	CQ	21	GLN	N-CA-C	9.94	121.70	111.07
85	A5	1214	C	P-O3'-C3'	9.94	135.10	120.20
40	CK	85	LEU	N-CA-C	-9.93	100.57	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AO	102	GLY	CA-C-N	-9.93	106.16	122.54
5	AO	102	GLY	C-N-CA	-9.93	106.16	122.54
36	B2	1198	G	O4'-C1'-C2'	9.93	117.53	107.60
6	AX	58	GLU	N-CA-C	9.92	126.08	110.70
36	B2	66	G	C1'-O4'-C4'	-9.92	99.98	109.90
26	AJ	166	GLY	CA-C-N	-9.92	106.18	121.45
26	AJ	166	GLY	C-N-CA	-9.92	106.18	121.45
16	AA	193	HIS	N-CA-C	9.91	124.72	110.24
74	CC	305	PRO	CB-CA-C	-9.91	95.20	111.56
85	A5	227	A	C2'-C3'-O3'	-9.91	98.83	113.70
36	B2	604	A	P-O3'-C3'	9.91	135.06	120.20
36	B2	1539	U	O4'-C1'-C2'	-9.91	97.69	107.60
36	B2	725	C	P-O3'-C3'	9.91	135.06	120.20
36	B2	858	A	O4'-C1'-C2'	-9.91	97.69	107.60
36	B2	1406	G	P-O3'-C3'	9.91	135.06	120.20
85	A5	416	U	O3'-P-O5'	9.91	118.86	104.00
85	A5	2753	G	N9-C1'-C2'	9.91	126.86	112.00
81	CE	81	GLU	CA-C-N	9.90	139.01	122.07
81	CE	81	GLU	C-N-CA	9.90	139.01	122.07
85	A5	4127	A	C4'-C3'-O3'	9.90	124.25	109.40
40	CK	148	PRO	CA-N-CD	-9.90	98.14	112.00
69	Cg	82	MET	CA-C-N	9.90	134.54	120.28
69	Cg	82	MET	C-N-CA	9.90	134.54	120.28
85	A5	4748	U	O4'-C1'-N1	9.90	123.35	108.50
87	A8	82	A	O4'-C1'-N9	9.90	123.35	108.50
36	B2	1865	C	C2'-C3'-O3'	-9.90	94.66	109.50
85	A5	938	C	P-O3'-C3'	9.90	135.04	120.20
85	A5	4949	G	C2'-C3'-O3'	-9.90	98.86	113.70
82	CG	58	PRO	N-CA-CB	-9.89	92.86	103.25
85	A5	2025	A	P-O3'-C3'	9.88	135.03	120.20
85	A5	4044	U	O4'-C1'-N1	9.88	123.32	108.50
86	A7	102	U	N1-C1'-C2'	9.88	126.82	112.00
85	A5	1915	C	O4'-C1'-C2'	9.88	115.68	105.80
4	AK	1	MET	CB-CG-SD	9.87	142.32	112.70
85	A5	4731	G	O4'-C1'-N9	9.87	123.01	108.20
85	A5	4885	U	O4'-C1'-N1	9.87	123.31	108.50
2	Ag	277	THR	N-CA-C	-9.87	97.60	110.33
85	A5	2824	C	O4'-C1'-C2'	-9.87	97.73	107.60
85	A5	4607	A	O4'-C1'-C2'	-9.87	97.73	107.60
82	CG	163	PRO	CA-N-CD	-9.86	98.19	112.00
36	B2	1494	U	C2'-C3'-O3'	9.86	124.29	109.50
81	CE	274	VAL	CB-CA-C	-9.86	95.12	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
48	CD	259	LYS	O-C-N	-9.85	109.49	122.59
85	A5	4722	G	O4'-C1'-N9	9.85	123.28	108.50
85	A5	1795	A	N9-C1'-C2'	9.85	126.78	112.00
85	A5	2122	G	P-O5'-C5'	-9.85	106.13	120.90
36	B2	908	A	O3'-P-O5'	-9.85	89.23	104.00
37	BC	37	A	C2'-C3'-O3'	-9.85	98.93	113.70
36	B2	1538	C	P-O3'-C3'	9.84	134.97	120.20
85	A5	2784	C	N1-C1'-C2'	9.84	126.77	112.00
74	CC	305	PRO	CA-N-CD	-9.84	98.22	112.00
81	CE	276	ALA	O-C-N	-9.84	111.27	123.27
85	A5	2236	C	C4'-C3'-O3'	-9.84	95.25	110.00
85	A5	2390	G	N9-C1'-C2'	9.84	126.75	112.00
85	A5	4412	C	C4'-C3'-O3'	-9.84	98.25	113.00
23	AD	52	ALA	CA-C-N	-9.83	103.78	122.06
23	AD	52	ALA	C-N-CA	-9.83	103.78	122.06
40	CK	111	ASN	CB-CA-C	-9.83	93.34	109.56
36	B2	125	C	C4'-C3'-O3'	9.83	124.14	109.40
36	B2	1028	A	C4'-C3'-O3'	-9.83	98.26	113.00
61	Ch	121	VAL	CA-C-N	9.83	140.31	121.54
61	Ch	121	VAL	C-N-CA	9.83	140.31	121.54
11	AL	102	PHE	N-CA-C	-9.82	94.33	109.85
52	CS	174	THR	CA-C-N	9.82	140.42	122.54
52	CS	174	THR	C-N-CA	9.82	140.42	122.54
1	Az	427	VAL	N-CA-C	9.82	123.74	107.24
19	AZ	104	ARG	CD-NE-CZ	-9.82	110.65	124.40
26	AJ	100	LEU	N-CA-C	9.82	125.58	110.36
36	B2	1747	C	C2'-C3'-O3'	-9.82	98.97	113.70
60	Cr	37	SER	CA-C-O	-9.82	106.47	120.51
85	A5	4871	C	C2'-C3'-O3'	9.82	124.23	109.50
85	A5	3861	A	C3'-C2'-C1'	9.81	111.11	101.30
85	A5	207	G	N9-C1'-C2'	9.81	126.72	112.00
29	AG	155	GLN	CA-C-N	-9.81	107.28	123.37
29	AG	155	GLN	C-N-CA	-9.81	107.28	123.37
40	CK	27	ALA	N-CA-C	9.80	124.71	109.52
36	B2	139	C	P-O3'-C3'	9.79	134.89	120.20
74	CC	31	PRO	CA-N-CD	-9.79	98.29	112.00
52	CS	175	PHE	N-CA-C	-9.79	98.37	110.61
81	CE	37	PRO	CA-C-N	9.79	140.24	121.54
81	CE	37	PRO	C-N-CA	9.79	140.24	121.54
36	B2	1064	C	O4'-C1'-C2'	-9.79	97.81	107.60
85	A5	970	G	N9-C1'-C2'	9.79	128.68	114.00
85	A5	4933	C	P-O5'-C5'	9.79	135.58	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1861	G	O4'-C1'-C2'	9.78	115.58	105.80
81	CE	125	LEU	CA-C-N	-9.78	106.35	122.39
81	CE	125	LEU	C-N-CA	-9.78	106.35	122.39
46	CN	197	THR	CB-CA-C	-9.78	89.53	109.38
59	CZ	35	ASP	CA-C-O	-9.78	106.53	120.51
60	Cr	40	TYR	CA-C-N	9.78	140.22	121.54
60	Cr	40	TYR	C-N-CA	9.78	140.22	121.54
40	CK	2	PRO	CA-N-CD	-9.78	98.31	112.00
36	B2	1259	A	O4'-C1'-C2'	9.78	117.38	107.60
74	CC	346	ASN	CB-CA-C	9.78	127.47	110.85
85	A5	4052	C	O4'-C1'-C2'	-9.78	97.83	107.60
85	A5	2009	A	P-O3'-C3'	9.77	134.85	120.20
33	AI	156	ALA	N-CA-C	-9.77	101.57	113.19
36	B2	739	C	O4'-C1'-C2'	-9.77	97.83	107.60
36	B2	1072	U	O4'-C1'-C2'	-9.77	97.83	107.60
74	CC	323	ARG	O-C-N	9.76	132.53	122.08
52	CS	73	LEU	N-CA-C	-9.76	90.01	110.80
85	A5	708	G	P-O3'-C3'	9.76	134.84	120.20
85	A5	1410	U	P-O3'-C3'	9.76	134.84	120.20
36	B2	80	G	O4'-C1'-C2'	-9.75	97.85	107.60
41	CO	186	GLU	N-CA-CB	9.75	124.15	110.01
85	A5	1183	C	O4'-C1'-C2'	-9.75	97.85	107.60
85	A5	448	G	N9-C1'-C2'	9.75	126.62	112.00
1	Az	272	LYS	CA-C-N	9.74	134.59	120.95
1	Az	272	LYS	C-N-CA	9.74	134.59	120.95
85	A5	2649	G	P-O3'-C3'	9.74	134.81	120.20
66	Cd	64	ILE	CA-C-N	-9.74	108.81	122.93
66	Cd	64	ILE	C-N-CA	-9.74	108.81	122.93
85	A5	4738	C	P-O3'-C3'	9.74	134.81	120.20
36	B2	1678	A	O4'-C1'-N9	9.74	123.10	108.50
85	A5	1458	C	O4'-C1'-C2'	-9.74	97.86	107.60
85	A5	2250	C	O4'-C1'-C2'	-9.73	97.86	107.60
36	B2	1138	C	O3'-P-O5'	9.73	118.59	104.00
1	Az	5	THR	CA-C-N	-9.72	107.26	121.65
1	Az	5	THR	C-N-CA	-9.72	107.26	121.65
31	AH	113	LYS	CA-C-O	-9.72	110.33	121.81
37	BC	37	A	C4'-C3'-O3'	9.72	127.59	113.00
36	B2	722	C	P-O3'-C3'	9.72	134.78	120.20
82	CG	200	THR	N-CA-CB	9.72	126.92	110.49
85	A5	2250	C	P-O3'-C3'	9.72	134.78	120.20
85	A5	2439	G	N9-C1'-C2'	9.72	126.58	112.00
60	Cr	91	SER	CA-C-O	-9.71	110.04	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	220	C	N1-C1'-C2'	9.71	126.57	112.00
36	B2	77	A	P-O3'-C3'	9.71	134.77	120.20
36	B2	958	G	O4'-C1'-N9	9.71	123.07	108.50
85	A5	488	G	O4'-C1'-N9	9.71	123.06	108.50
28	AC	256	TRP	CA-C-N	-9.70	107.25	122.87
28	AC	256	TRP	C-N-CA	-9.70	107.25	122.87
36	B2	530	U	O4'-C4'-C3'	-9.71	94.30	104.00
87	A8	95	A	C4'-C3'-O3'	-9.71	98.44	113.00
36	B2	66	G	N9-C1'-C2'	9.70	126.56	112.00
68	Cf	100	ARG	N-CA-C	-9.70	98.01	110.53
82	CG	183	ILE	O-C-N	-9.70	110.44	122.57
36	B2	694	G	O4'-C1'-C2'	9.70	117.30	107.60
85	A5	3892	U	O4'-C4'-C3'	-9.70	94.31	104.00
36	B2	887	U	O4'-C1'-N1	9.69	122.74	108.20
36	B2	1593	C	P-O3'-C3'	9.69	134.74	120.20
41	CO	69	GLY	CA-C-N	9.68	129.73	119.76
41	CO	69	GLY	C-N-CA	9.68	129.73	119.76
46	CN	74	PRO	CA-N-CD	-9.68	98.44	112.00
51	CA	67	TYR	CB-CA-C	9.68	126.84	109.99
87	A8	146	U	O4'-C1'-C2'	-9.68	97.92	107.60
26	AJ	161	LEU	CA-C-N	-9.68	103.05	121.54
26	AJ	161	LEU	C-N-CA	-9.68	103.05	121.54
38	Cz	28	PHE	N-CA-CB	9.68	126.21	110.43
52	CS	152	PHE	CB-CA-C	9.68	129.23	110.17
36	B2	1602	U	O3'-P-O5'	-9.67	89.49	104.00
48	CD	57	ASN	CB-CA-C	9.67	125.52	111.88
85	A5	2255	C	C3'-C2'-C1'	9.67	111.17	101.50
85	A5	3752	C	N1-C1'-C2'	9.67	126.50	112.00
41	CO	66	PRO	CA-N-CD	-9.67	98.47	112.00
26	AJ	164	PRO	CA-C-N	-9.66	109.38	122.72
26	AJ	164	PRO	C-N-CA	-9.66	109.38	122.72
85	A5	4298	A	O4'-C1'-C2'	-9.66	97.94	107.60
85	A5	3847	C	O4'-C1'-C2'	-9.66	97.94	107.60
85	A5	384	A	C3'-C2'-C1'	9.65	110.95	101.30
85	A5	674	G	C1'-O4'-C4'	-9.65	100.25	109.90
36	B2	580	U	P-O3'-C3'	-9.65	105.72	120.20
38	Cz	189	PHE	CA-CB-CG	-9.65	104.15	113.80
85	A5	2911	G	P-O3'-C3'	9.65	134.68	120.20
85	A5	4889	G	P-O3'-C3'	9.65	134.68	120.20
40	CK	75	PRO	CA-N-CD	-9.65	98.50	112.00
74	CC	134	PRO	CA-N-CD	-9.64	98.50	112.00
20	Aa	63	VAL	CA-C-N	9.64	145.32	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	Aa	63	VAL	C-N-CA	9.64	145.32	121.80
85	A5	1255	A	N9-C1'-C2'	9.64	128.46	114.00
36	B2	876	C	O4'-C1'-C2'	-9.63	97.97	107.60
85	A5	233	U	O4'-C1'-N1	9.63	122.64	108.20
85	A5	882	G	P-O3'-C3'	9.63	134.64	120.20
29	AG	122	PRO	CA-N-CD	-9.62	98.53	112.00
63	CB	293	ILE	CA-CB-CG2	9.62	126.86	110.50
36	B2	536	A	P-O3'-C3'	-9.62	105.77	120.20
36	B2	915	G	O4'-C1'-N9	9.62	122.93	108.50
36	B2	1748	G	P-O5'-C5'	9.62	135.33	120.90
85	A5	3887	C	N1-C1'-C2'	9.62	126.43	112.00
45	Ca	52	TYR	CA-CB-CG	-9.62	96.59	113.90
85	A5	250	C	P-O3'-C3'	9.62	134.63	120.20
85	A5	1722	C	O4'-C1'-C2'	-9.62	97.98	107.60
85	A5	3746	A	O4'-C1'-C2'	-9.62	97.98	107.60
3	AU	94	PRO	CA-N-CD	-9.61	98.55	112.00
85	A5	1210	C	O4'-C1'-C2'	-9.61	96.19	105.80
85	A5	1805	A	O4'-C1'-N9	9.61	122.61	108.20
85	A5	4135	G	P-O3'-C3'	9.61	134.61	120.20
85	A5	968	C	O4'-C1'-C2'	-9.61	96.19	105.80
85	A5	4411	G	O4'-C1'-C2'	-9.60	98.00	107.60
1	Az	74	ALA	N-CA-C	9.60	123.93	108.76
85	A5	1359	G	C1'-O4'-C4'	-9.60	100.30	109.90
85	A5	1834	U	O4'-C1'-N1	9.60	122.90	108.50
33	AI	191	GLU	N-CA-C	9.60	121.34	108.38
36	B2	71	G	C4'-C3'-O3'	9.60	123.80	109.40
74	CC	194	GLY	N-CA-C	-9.60	101.21	112.73
85	A5	4936	G	C2'-C3'-O3'	9.60	128.09	113.70
36	B2	1747	C	C4'-C3'-O3'	-9.59	98.61	113.00
85	A5	4965	U	O4'-C1'-C2'	-9.59	96.21	105.80
85	A5	934	C	C3'-C2'-C1'	9.59	110.89	101.30
85	A5	3701	C	O4'-C1'-C2'	-9.59	96.21	105.80
85	A5	942	G	N9-C1'-C2'	9.58	126.38	112.00
85	A5	4838	U	P-O3'-C3'	9.58	134.57	120.20
81	CE	97	GLY	N-CA-C	9.58	129.26	110.77
46	CN	181	HIS	N-CA-C	9.58	121.32	111.07
42	CL	100	PRO	CA-N-CD	-9.57	98.60	112.00
74	CC	89	GLN	N-CA-C	9.57	122.99	111.02
85	A5	2814	C	C3'-C2'-C1'	9.57	111.07	101.50
74	CC	86	ARG	N-CA-CB	9.57	126.66	110.49
85	A5	2133	C	P-O3'-C3'	9.56	134.54	120.20
85	A5	2232	C	P-O3'-C3'	9.56	134.54	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3891	A	C4'-C3'-O3'	9.56	127.34	113.00
85	A5	4130	C	P-O3'-C3'	9.56	134.54	120.20
20	Aa	58	VAL	CB-CA-C	-9.56	95.61	111.29
28	AC	171	GLY	CA-C-N	-9.56	109.56	122.85
28	AC	171	GLY	C-N-CA	-9.56	109.56	122.85
85	A5	4806	C	P-O3'-C3'	9.56	134.54	120.20
36	B2	1487	A	C4'-C3'-O3'	-9.56	98.66	113.00
3	AU	53	PRO	CA-N-CD	-9.56	98.62	112.00
81	CE	37	PRO	N-CA-C	9.55	136.94	112.10
85	A5	125	C	O4'-C1'-C2'	-9.55	98.05	107.60
85	A5	1398	A	O4'-C1'-N9	9.56	122.53	108.20
85	A5	2806	A	O4'-C1'-N9	9.55	122.53	108.20
49	CQ	152	PHE	N-CA-C	9.55	124.66	109.86
1	Az	154	VAL	CA-CB-CG1	9.55	126.63	110.40
61	Ch	77	LYS	O-C-N	9.55	135.29	122.59
85	A5	4980	C	O3'-P-O5'	-9.55	89.68	104.00
36	B2	352	U	O4'-C1'-C2'	-9.54	98.06	107.60
85	A5	4939	C	C4'-C3'-O3'	-9.54	98.69	113.00
58	CW	75	ALA	N-CA-C	9.54	131.12	110.80
85	A5	734	G	O4'-C1'-N9	9.54	122.81	108.50
14	AT	51	ASN	CA-C-N	9.54	135.99	120.63
14	AT	51	ASN	C-N-CA	9.54	135.99	120.63
36	B2	706	U	P-O3'-C3'	9.54	134.51	120.20
36	B2	604	A	O4'-C1'-C2'	-9.53	98.07	107.60
36	B2	286	U	C3'-C2'-C1'	9.53	110.83	101.30
85	A5	1437	C	O4'-C1'-C2'	-9.52	98.08	107.60
36	B2	1567	G	C3'-C2'-C1'	-9.52	91.78	101.30
85	A5	1186	U	O4'-C1'-C2'	-9.52	98.08	107.60
66	Cd	43	PRO	CA-N-CD	-9.52	98.68	112.00
25	Af	87	THR	N-CA-C	-9.51	88.79	109.81
85	A5	3731	C	P-O3'-C3'	9.51	134.47	120.20
87	A8	94	G	O3'-P-O5'	9.51	118.27	104.00
36	B2	162	C	C4'-C3'-O3'	9.51	127.27	113.00
36	B2	1409	A	P-O5'-C5'	9.51	135.16	120.90
36	B2	1535	U	O3'-P-O5'	-9.51	89.74	104.00
85	A5	316	U	O4'-C1'-C2'	-9.51	96.30	105.80
85	A5	2146	U	P-O3'-C3'	9.51	134.46	120.20
3	AU	70	CYS	CA-C-N	9.50	140.03	121.41
3	AU	70	CYS	C-N-CA	9.50	140.03	121.41
36	B2	552	G	P-O5'-C5'	9.50	135.15	120.90
85	A5	4172	A	O4'-C1'-N9	9.50	122.74	108.50
85	A5	4729	A	O4'-C1'-C2'	-9.50	96.30	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Cq	80	PRO	CA-N-CD	-9.49	98.71	112.00
85	A5	4894	A	O4'-C1'-C2'	9.49	117.09	107.60
36	B2	951	C	P-O5'-C5'	9.49	135.13	120.90
43	CV	46	LYS	N-CA-C	9.49	131.01	110.80
85	A5	958	G	P-O3'-C3'	9.49	134.43	120.20
36	B2	1144	A	N9-C1'-C2'	9.49	126.23	112.00
56	CX	142	PRO	CA-N-CD	-9.49	98.72	112.00
85	A5	69	A	N9-C1'-C2'	9.49	126.23	112.00
85	A5	2549	G	P-O3'-C3'	9.49	134.43	120.20
36	B2	1590	C	N1-C1'-C2'	9.48	126.22	112.00
51	CA	206	PRO	CA-N-CD	-9.48	98.72	112.00
85	A5	2007	G	C1'-C2'-O2'	9.48	126.02	111.80
85	A5	2575	U	O4'-C1'-N1	9.48	122.72	108.50
36	B2	903	A	O4'-C1'-N9	9.48	122.72	108.50
36	B2	1477	U	P-O5'-C5'	9.48	135.12	120.90
82	CG	138	ALA	N-CA-C	9.48	130.99	110.80
85	A5	422	C	N1-C1'-C2'	9.48	126.22	112.00
85	A5	1787	A	C3'-C2'-C1'	9.48	110.78	101.30
36	B2	262	G	P-O3'-C3'	9.47	134.41	120.20
36	B2	552	G	P-O3'-C3'	9.47	134.41	120.20
53	CT	75	VAL	CA-C-N	9.47	135.92	121.71
53	CT	75	VAL	C-N-CA	9.47	135.92	121.71
85	A5	3887	C	P-O3'-C3'	9.47	134.41	120.20
85	A5	2260	C	P-O3'-C3'	9.47	134.40	120.20
85	A5	4712	C	O4'-C1'-C2'	-9.47	98.13	107.60
85	A5	136	C	O5'-C5'-C4'	9.47	125.70	111.50
85	A5	4444	C	O4'-C1'-C2'	-9.46	98.14	107.60
36	B2	1434	C	P-O3'-C3'	9.46	134.39	120.20
39	Cq	127	ASN	CA-CB-CG	-9.46	103.14	112.60
85	A5	670	G	O4'-C1'-N9	9.45	122.67	108.50
1	Az	563	GLU	N-CA-C	9.45	121.34	111.14
82	CG	180	PRO	CA-N-CD	-9.45	98.78	112.00
85	A5	2313	A	P-O3'-C3'	9.45	134.37	120.20
85	A5	3911	C	N1-C1'-C2'	9.44	126.16	112.00
2	Ag	12	LYS	CA-C-N	9.44	134.67	123.44
2	Ag	12	LYS	C-N-CA	9.44	134.67	123.44
36	B2	494	C	O4'-C1'-C2'	-9.44	98.17	107.60
81	CE	36	LYS	N-CA-C	-9.44	88.96	109.81
18	AY	86	GLU	C-N-CD	-9.43	86.32	125.00
44	CM	46	ARG	N-CA-CB	9.43	123.83	109.97
85	A5	1197	C	P-O3'-C3'	9.43	134.35	120.20
40	CK	44	ASP	CA-C-N	9.43	133.09	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	CK	44	ASP	C-N-CA	9.43	133.09	120.65
42	CL	13	HIS	CA-CB-CG	9.43	123.23	113.80
17	AV	78	ILE	N-CA-CB	-9.43	95.47	111.50
63	CB	15	GLY	O-C-N	-9.43	110.44	122.70
85	A5	3753	G	P-O3'-C3'	9.43	134.34	120.20
85	A5	4087	G	P-O3'-C3'	9.43	134.34	120.20
2	Ag	185	LYS	N-CA-C	9.42	121.32	111.14
16	AA	200	ASP	CB-CA-C	-9.42	90.95	110.17
85	A5	966	A	P-O3'-C3'	9.42	134.34	120.20
81	CE	85	LYS	CB-CA-C	9.42	129.16	110.42
85	A5	184	U	P-O3'-C3'	9.42	134.33	120.20
85	A5	1607	C	O4'-C1'-C2'	-9.42	98.18	107.60
48	CD	217	ASP	CA-C-N	9.42	133.66	120.29
48	CD	217	ASP	C-N-CA	9.42	133.66	120.29
63	CB	298	LEU	CB-CA-C	9.41	130.37	116.53
61	Ch	40	ALA	CA-C-N	-9.41	108.21	120.44
61	Ch	40	ALA	C-N-CA	-9.41	108.21	120.44
26	AJ	180	LYS	CA-C-N	9.41	139.85	121.41
26	AJ	180	LYS	C-N-CA	9.41	139.85	121.41
35	Ah	161	PRO	CA-N-CD	-9.41	98.83	112.00
85	A5	2047	A	O4'-C1'-C2'	-9.41	96.39	105.80
85	A5	4874	A	P-O3'-C3'	9.41	134.31	120.20
30	AF	163	PHE	N-CA-C	9.40	121.13	111.07
36	B2	1551	U	O4'-C1'-C2'	9.40	117.00	107.60
51	CA	52	PRO	CA-N-CD	-9.40	98.84	112.00
85	A5	4910	G	C4'-C3'-O3'	-9.40	95.30	109.40
29	AG	170	ARG	CB-CA-C	-9.39	93.64	110.36
85	A5	64	A	P-O3'-C3'	9.39	134.29	120.20
36	B2	441	C	N1-C1'-C2'	9.39	126.09	112.00
36	B2	699	C	O4'-C1'-C2'	-9.39	98.21	107.60
85	A5	956	A	O4'-C1'-C2'	-9.39	96.41	105.80
85	A5	4370	G	N9-C1'-C2'	9.39	126.09	112.00
68	Cf	3	GLY	O-C-N	-9.39	110.50	122.70
85	A5	16	G	C4'-C3'-O3'	9.38	127.08	113.00
85	A5	4093	G	P-O3'-C3'	9.39	134.28	120.20
87	A8	110	U	P-O3'-C3'	9.39	134.28	120.20
85	A5	3948	C	P-O3'-C3'	9.38	134.27	120.20
81	CE	31	ASN	CA-CB-CG	9.38	121.98	112.60
81	CE	110	ARG	CB-CG-CD	9.38	132.87	111.30
85	A5	2505	C	O4'-C1'-C2'	-9.38	96.42	105.80
20	Aa	103	PRO	CA-N-CD	-9.38	98.87	112.00
36	B2	1237	C	C1'-O4'-C4'	-9.38	100.52	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	CK	88	PRO	CA-N-CD	-9.37	98.88	112.00
85	A5	4994	G	C1'-O4'-C4'	-9.38	100.53	109.90
11	AL	153	LYS	CA-C-N	9.37	142.00	122.41
11	AL	153	LYS	C-N-CA	9.37	142.00	122.41
85	A5	1446	C	O5'-C5'-C4'	9.37	125.56	111.50
85	A5	3713	U	O4'-C1'-N1	9.37	122.26	108.20
17	AV	78	ILE	CA-C-N	-9.37	105.11	121.97
17	AV	78	ILE	C-N-CA	-9.37	105.11	121.97
85	A5	174	C	N1-C1'-C2'	9.37	126.05	112.00
85	A5	1998	A	P-O5'-C5'	9.37	134.95	120.90
74	CC	13	GLU	CA-C-N	9.36	135.01	122.84
74	CC	13	GLU	C-N-CA	9.36	135.01	122.84
85	A5	2769	U	N1-C1'-C2'	9.36	126.05	112.00
36	B2	1381	G	O4'-C1'-N9	9.36	122.54	108.50
81	CE	32	LEU	CB-CG-CD1	9.36	138.79	110.70
11	AL	152	LYS	CA-C-O	-9.36	107.12	120.51
37	BC	17	G	C5'-C4'-C3'	9.36	129.24	115.20
52	CS	138	ARG	N-CA-C	9.36	121.56	111.36
13	AP	121	ILE	O-C-N	-9.36	113.13	122.67
85	A5	1367	C	C1'-O4'-C4'	9.35	119.25	109.90
30	AF	45	TYR	CA-CB-CG	-9.35	97.07	113.90
36	B2	732	U	N1-C1'-C2'	9.35	126.02	112.00
54	CP	36	ILE	N-CA-C	-9.35	104.22	113.20
87	A8	81	C	O4'-C1'-N1	9.35	122.52	108.50
36	B2	1741	U	N1-C1'-C2'	9.34	126.01	112.00
85	A5	409	G	O4'-C1'-C2'	-9.34	96.46	105.80
85	A5	3646	A	N9-C1'-C2'	-9.34	99.99	114.00
85	A5	4493	U	O4'-C1'-C2'	-9.34	98.26	107.60
85	A5	2396	A	P-O5'-C5'	9.34	134.91	120.90
48	CD	221	LYS	N-CA-C	9.33	121.22	111.14
36	B2	240	G	P-O3'-C3'	9.33	134.19	120.20
36	B2	1401	A	P-O3'-C3'	9.32	134.19	120.20
23	AD	82	GLY	O-C-N	-9.32	111.00	122.46
36	B2	897	U	O3'-P-O5'	-9.32	90.02	104.00
85	A5	4748	U	O4'-C1'-C2'	-9.32	98.28	107.60
36	B2	418	A	N9-C1'-C2'	9.32	125.98	112.00
40	CK	129	ILE	CA-C-N	9.32	137.45	121.14
40	CK	129	ILE	C-N-CA	9.32	137.45	121.14
58	CW	2	LYS	N-CA-C	-9.32	98.51	110.53
85	A5	4730	C	C2'-C3'-O3'	9.32	123.47	109.50
58	CW	97	LYS	CA-C-N	9.31	131.48	119.84
58	CW	97	LYS	C-N-CA	9.31	131.48	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	957	G	O4'-C1'-C2'	9.31	115.11	105.80
85	A5	1398	A	C2'-C3'-O3'	9.31	123.47	109.50
85	A5	4355	G	O4'-C1'-C2'	-9.31	98.29	107.60
36	B2	1047	C	O4'-C1'-C2'	-9.31	98.29	107.60
85	A5	1077	C	N1-C1'-C2'	9.31	125.96	112.00
85	A5	4124	G	C3'-C2'-C1'	9.31	110.61	101.30
85	A5	1410	U	C1'-O4'-C4'	9.30	119.20	109.90
85	A5	2671	C	C4'-C3'-O3'	-9.31	99.04	113.00
42	CL	10	LEU	N-CA-C	9.30	124.06	108.90
36	B2	1407	U	N1-C1'-C2'	9.30	125.95	112.00
21	Ab	12	PRO	CA-N-CD	-9.30	98.98	112.00
36	B2	1745	A	O4'-C1'-N9	9.30	122.45	108.50
85	A5	683	C	N1-C1'-C2'	9.30	125.95	112.00
86	A7	49	A	C2'-C3'-O3'	-9.29	99.76	113.70
62	Cb	50	ASN	CA-C-O	9.29	130.40	120.55
85	A5	2574	G	P-O3'-C3'	9.29	134.14	120.20
85	A5	3800	A	P-O3'-C3'	-9.29	106.26	120.20
81	CE	32	LEU	CA-C-N	9.29	134.06	120.87
81	CE	32	LEU	C-N-CA	9.29	134.06	120.87
85	A5	1278	C	O4'-C1'-C2'	-9.29	98.31	107.60
85	A5	2066	C	N1-C1'-C2'	9.29	125.93	112.00
36	B2	919	A	P-O3'-C3'	9.28	134.12	120.20
36	B2	1721	U	N1-C1'-C2'	-9.28	98.08	112.00
36	B2	464	A	O3'-P-O5'	9.28	117.92	104.00
85	A5	4438	U	O4'-C1'-C2'	-9.28	98.32	107.60
36	B2	1203	G	N9-C1'-C2'	9.28	125.91	112.00
36	B2	1292	C	N1-C1'-C2'	9.28	125.92	112.00
85	A5	4196	G	N9-C1'-C2'	9.28	125.92	112.00
86	A7	115	A	C5'-C4'-C3'	-9.28	102.08	116.00
48	CD	255	LYS	N-CA-C	9.27	122.98	108.79
85	A5	2348	G	O3'-P-O5'	-9.27	90.09	104.00
36	B2	438	G	O4'-C1'-N9	9.27	122.40	108.50
85	A5	4267	G	O4'-C1'-C2'	9.27	116.87	107.60
15	AB	147	ASN	CA-C-N	-9.27	103.84	121.54
15	AB	147	ASN	C-N-CA	-9.27	103.84	121.54
36	B2	1498	A	C1'-O4'-C4'	-9.27	100.63	109.90
85	A5	1222	A	C2'-C3'-O3'	9.27	123.40	109.50
48	CD	269	PRO	CA-N-CD	-9.27	99.03	112.00
85	A5	445	U	P-O3'-C3'	9.26	134.10	120.20
36	B2	287	U	P-O3'-C3'	9.26	134.09	120.20
1	Az	63	GLU	N-CA-C	-9.26	101.14	111.14
74	CC	262	GLU	N-CA-CB	9.26	126.14	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	CO	109	PRO	CA-C-N	9.25	129.91	120.38
41	CO	109	PRO	C-N-CA	9.25	129.91	120.38
58	CW	73	ARG	N-CA-CB	9.25	126.12	110.49
28	AC	56	GLU	CA-C-N	-9.25	106.26	122.07
28	AC	56	GLU	C-N-CA	-9.25	106.26	122.07
36	B2	228	C	C3'-C2'-C1'	9.25	110.75	101.50
85	A5	4083	U	P-O3'-C3'	-9.24	106.33	120.20
85	A5	5053	U	O4'-C1'-N1	9.24	122.07	108.20
85	A5	1361	G	N9-C1'-C2'	-9.24	98.14	112.00
22	Ac	7	GLN	N-CA-C	9.24	120.03	108.11
85	A5	2565	A	O4'-C1'-C2'	-9.24	98.36	107.60
1	Az	76	SER	O-C-N	9.24	135.24	123.23
83	Ct	41	PRO	CA-N-CD	-9.24	99.07	112.00
36	B2	933	G	C1'-O4'-C4'	-9.23	100.67	109.90
85	A5	975	C	C5'-C4'-C3'	9.23	129.85	116.00
36	B2	456	C	N1-C1'-C2'	9.23	125.84	112.00
36	B2	1522	A	C2'-C3'-O3'	-9.23	99.86	113.70
36	B2	1664	A	P-O3'-C3'	9.23	134.05	120.20
85	A5	4163	U	P-O3'-C3'	9.23	134.05	120.20
85	A5	4256	A	O4'-C1'-N9	9.23	122.34	108.50
42	CL	163	LYS	N-CA-C	9.23	123.58	108.26
85	A5	640	C	O4'-C1'-C2'	-9.23	96.57	105.80
85	A5	273	U	N1-C1'-C2'	9.22	125.83	112.00
15	AB	41	ILE	N-CA-C	-9.22	100.00	110.05
85	A5	2395	A	O4'-C1'-C2'	-9.22	96.58	105.80
36	B2	557	U	O4'-C1'-C2'	-9.22	98.38	107.60
36	B2	739	C	N1-C1'-C2'	9.22	125.83	112.00
85	A5	2448	G	O4'-C1'-N9	9.22	122.33	108.50
8	AS	139	THR	CB-CA-C	-9.21	103.80	117.07
85	A5	4751	G	C3'-C2'-C1'	-9.22	92.08	101.30
61	Ch	5	LYS	O-C-N	-9.21	110.34	122.59
36	B2	1620	A	N9-C1'-C2'	9.21	127.82	114.00
36	B2	1543	U	P-O3'-C3'	9.21	134.01	120.20
47	CI	192	PRO	CA-N-CD	-9.21	99.11	112.00
85	A5	2220	U	P-O3'-C3'	9.21	134.01	120.20
36	B2	1239	U	C4'-C3'-O3'	-9.21	99.19	113.00
36	B2	35	C	O4'-C1'-C2'	-9.20	98.40	107.60
85	A5	1455	G	O4'-C1'-C2'	-9.20	98.40	107.60
85	A5	243	A	N9-C1'-C2'	9.20	125.80	112.00
36	B2	188	C	O4'-C1'-C2'	-9.20	98.40	107.60
85	A5	945	U	P-O3'-C3'	9.20	134.00	120.20
14	AT	4	VAL	N-CA-CB	-9.20	95.87	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	666	U	O4'-C1'-C2'	-9.20	98.41	107.60
85	A5	3715	U	O4'-C1'-N1	9.19	122.28	108.50
85	A5	4315	A	O4'-C1'-C2'	-9.19	98.41	107.60
85	A5	183	C	O4'-C1'-C2'	-9.19	98.41	107.60
12	AR	89	SER	O-C-N	-9.19	110.37	122.59
65	Cc	89	TYR	CA-CB-CG	-9.18	97.37	113.90
85	A5	3812	C	N1-C1'-C2'	9.18	125.78	112.00
48	CD	11	ALA	CA-C-N	-9.18	108.14	120.63
48	CD	11	ALA	C-N-CA	-9.18	108.14	120.63
85	A5	42	A	O3'-P-O5'	-9.18	90.23	104.00
85	A5	1853	G	O4'-C1'-C2'	9.18	114.98	105.80
31	AH	99	ARG	N-CA-C	9.17	121.36	111.36
85	A5	327	U	O4'-C1'-C2'	-9.17	96.63	105.80
85	A5	4560	C	C4'-C3'-O3'	-9.17	95.64	109.40
85	A5	4934	A	O4'-C1'-C2'	-9.17	98.43	107.60
1	Az	712	ASP	O-C-N	-9.17	112.77	123.22
60	Cr	66	ARG	N-CA-C	9.17	130.33	110.80
85	A5	1783	C	N1-C1'-C2'	9.17	125.75	112.00
28	AC	119	GLY	N-CA-C	9.17	134.90	113.18
85	A5	1633	G	P-O3'-C3'	9.17	133.95	120.20
20	Aa	102	ARG	C-N-CD	-9.16	87.43	125.00
61	Ch	40	ALA	N-CA-C	9.16	130.32	110.80
85	A5	1551	C	N1-C1'-C2'	9.16	125.74	112.00
33	AI	184	ARG	N-CA-CB	9.16	126.07	110.68
36	B2	1028	A	P-O3'-C3'	-9.16	106.46	120.20
81	CE	102	GLY	N-CA-C	-9.16	86.74	113.30
56	CX	37	LYS	N-CA-C	-9.16	91.29	110.80
36	B2	1236	G	O4'-C1'-C2'	9.16	116.76	107.60
85	A5	519	C	O4'-C1'-C2'	-9.16	98.44	107.60
85	A5	2702	C	O4'-C1'-C2'	-9.16	98.44	107.60
1	Az	331	GLU	N-CA-C	9.15	123.36	108.99
41	CO	121	PRO	CA-N-CD	-9.15	99.19	112.00
85	A5	2287	G	C4'-C3'-O3'	-9.15	99.27	113.00
85	A5	3945	A	O4'-C1'-C2'	-9.15	98.45	107.60
36	B2	663	C	N1-C1'-C2'	9.15	125.72	112.00
36	B2	1665	G	O4'-C1'-C2'	9.15	114.95	105.80
85	A5	4250	G	O4'-C1'-C2'	-9.15	98.45	107.60
85	A5	3283	G	P-O3'-C3'	9.15	133.92	120.20
36	B2	1153	C	O4'-C1'-N1	9.14	121.92	108.20
85	A5	1237	C	N1-C1'-C2'	9.14	125.72	112.00
36	B2	143	U	N1-C1'-C2'	9.14	127.72	114.00
85	A5	3888	G	P-O3'-C3'	9.14	133.92	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3961	G	N9-C1'-C2'	9.14	125.71	112.00
85	A5	4054	C	N1-C1'-C2'	9.14	125.72	112.00
8	AS	142	ARG	CB-CA-C	-9.14	92.74	110.10
42	CL	165	LYS	O-C-N	-9.14	110.44	122.59
53	CT	148	PRO	CB-CA-C	-9.14	99.53	111.23
85	A5	2112	G	C1'-C2'-O2'	9.14	122.11	108.40
85	A5	958	G	C3'-C2'-C1'	9.14	110.44	101.30
36	B2	931	C	O4'-C1'-C2'	-9.14	98.46	107.60
36	B2	1241	A	C3'-C2'-C1'	9.13	110.43	101.30
85	A5	1494	U	C4'-C3'-O3'	-9.13	99.30	113.00
85	A5	2882	A	O4'-C1'-C2'	-9.13	98.47	107.60
8	AS	9	PHE	CA-C-N	-9.13	106.43	120.31
8	AS	9	PHE	C-N-CA	-9.13	106.43	120.31
18	AY	52	PRO	CA-N-CD	-9.13	99.22	112.00
28	AC	269	PHE	CA-CB-CG	-9.13	104.67	113.80
36	B2	424	C	N1-C1'-C2'	9.13	125.70	112.00
36	B2	919	A	N9-C1'-C2'	9.13	127.70	114.00
36	B2	1190	A	O4'-C1'-C2'	-9.13	98.47	107.60
36	B2	319	C	O3'-P-O5'	-9.13	90.31	104.00
36	B2	1455	A	O4'-C1'-C2'	-9.13	98.47	107.60
69	Cg	82	MET	CB-CA-C	-9.13	94.74	109.80
85	A5	940	C	P-O3'-C3'	9.13	133.89	120.20
36	B2	811	A	P-O3'-C3'	9.12	133.88	120.20
85	A5	1257	A	O4'-C1'-C2'	-9.12	98.48	107.60
2	Ag	149	GLU	N-CA-C	9.12	120.66	108.07
36	B2	872	A	P-O3'-C3'	9.12	133.88	120.20
85	A5	4951	G	N9-C1'-C2'	9.12	125.68	112.00
85	A5	1186	U	O4'-C1'-N1	9.12	122.18	108.50
85	A5	5026	U	P-O5'-C5'	9.12	134.58	120.90
81	CE	85	LYS	CA-CB-CG	9.12	132.33	114.10
85	A5	1362	G	N9-C1'-C2'	9.12	125.67	112.00
85	A5	2112	G	O4'-C1'-C2'	9.11	116.71	107.60
85	A5	3684	G	C1'-O4'-C4'	-9.11	100.79	109.90
36	B2	353	C	C5'-C4'-C3'	9.11	129.66	116.00
85	A5	2592	U	N1-C1'-C2'	9.11	125.66	112.00
36	B2	1241	A	O4'-C1'-C2'	-9.10	98.50	107.60
85	A5	1714	C	P-O3'-C3'	9.10	133.85	120.20
36	B2	861	A	N9-C1'-C2'	-9.10	98.35	112.00
59	CZ	7	PRO	CA-N-CD	-9.10	99.26	112.00
85	A5	470	A	N9-C1'-C2'	9.10	125.65	112.00
60	Cr	81	THR	CA-C-N	-9.10	105.59	121.97
60	Cr	81	THR	C-N-CA	-9.10	105.59	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	971	U	O3'-P-O5'	9.10	117.65	104.00
15	AB	151	ARG	CA-C-N	-9.09	106.49	120.31
15	AB	151	ARG	C-N-CA	-9.09	106.49	120.31
83	Cs	41	PRO	CA-N-CD	-9.09	99.27	112.00
85	A5	1993	C	N1-C1'-C2'	9.09	125.64	112.00
85	A5	4741	C	O4'-C1'-C2'	-9.09	98.51	107.60
81	CE	219	LYS	CG-CD-CE	9.09	132.21	111.30
85	A5	1473	U	N1-C1'-C2'	9.09	125.63	112.00
36	B2	877	C	O4'-C1'-C2'	-9.09	98.51	107.60
37	BC	45	G	O4'-C1'-C2'	-9.09	96.71	105.80
56	CX	53	ARG	CB-CA-C	-9.09	97.82	111.72
36	B2	190	G	N9-C1'-C2'	9.08	125.63	112.00
63	CB	77	THR	N-CA-C	9.08	120.64	108.38
85	A5	1824	G	P-O5'-C5'	9.08	134.53	120.90
85	A5	180	C	O4'-C1'-C2'	-9.08	98.52	107.60
6	AX	67	ARG	N-CA-C	9.08	120.95	111.14
85	A5	1072	C	O4'-C1'-N1	9.08	122.12	108.50
13	AP	18	ARG	N-CA-CB	9.08	121.89	110.45
36	B2	1446	A	C4'-C3'-O3'	9.08	123.02	109.40
81	CE	87	LYS	CA-C-N	9.08	138.31	121.97
81	CE	87	LYS	C-N-CA	9.08	138.31	121.97
36	B2	872	A	O4'-C1'-N9	9.08	121.82	108.20
26	AJ	18	ARG	CA-C-N	-9.08	108.50	119.84
26	AJ	18	ARG	C-N-CA	-9.08	108.50	119.84
86	A7	118	C	O4'-C1'-C2'	-9.08	98.52	107.60
36	B2	447	A	O4'-C1'-C2'	-9.07	96.73	105.80
85	A5	5032	C	N1-C1'-C2'	9.07	125.60	112.00
47	CI	210	ARG	CB-CA-C	-9.07	95.56	110.79
85	A5	1755	C	O4'-C1'-C2'	-9.07	96.73	105.80
85	A5	1764	G	O4'-C1'-N9	9.07	122.10	108.50
85	A5	4606	G	N9-C1'-C2'	9.07	125.60	112.00
69	Cg	82	MET	CA-C-O	9.06	132.72	121.66
85	A5	142	G	P-O3'-C3'	9.06	133.80	120.20
36	B2	791	C	P-O3'-C3'	9.06	133.79	120.20
40	CK	163	PRO	CA-N-CD	-9.06	99.31	112.00
85	A5	402	A	O4'-C1'-C2'	-9.06	98.54	107.60
71	Cj	21	ARG	N-CA-C	9.06	120.76	111.07
85	A5	2576	G	O4'-C1'-C2'	9.06	116.66	107.60
36	B2	555	A	O4'-C1'-C2'	-9.05	98.55	107.60
8	AS	95	TYR	N-CA-CB	-9.05	95.44	109.92
36	B2	1565	C	O4'-C1'-C2'	-9.05	98.55	107.60
36	B2	1320	G	O4'-C1'-N9	9.05	122.07	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1403	C	O4'-C1'-N1	9.05	121.77	108.20
36	B2	1137	U	C2'-C3'-O3'	9.04	127.27	113.70
48	CD	262	LYS	CA-C-N	-9.04	109.83	123.04
48	CD	262	LYS	C-N-CA	-9.04	109.83	123.04
85	A5	1740	C	O4'-C1'-C2'	-9.04	96.75	105.80
85	A5	2845	A	N9-C1'-C2'	9.04	125.57	112.00
36	B2	1049	A	O4'-C1'-N9	9.04	122.06	108.50
58	CW	82	ILE	N-CA-CB	-9.04	98.84	112.67
85	A5	3959	U	P-O3'-C3'	9.04	133.76	120.20
85	A5	1285	U	P-O3'-C3'	9.04	133.76	120.20
25	Af	122	PRO	CA-N-CD	-9.04	99.35	112.00
87	A8	65	A	N9-C1'-C2'	9.04	125.55	112.00
36	B2	747	U	O4'-C1'-C2'	-9.03	98.57	107.60
54	CP	107	LEU	N-CA-C	-9.03	99.30	110.41
85	A5	1965	G	C4'-C3'-O3'	-9.03	99.45	113.00
13	AP	36	LEU	CA-C-O	9.03	130.22	120.38
36	B2	960	U	N1-C1'-C2'	9.03	125.54	112.00
52	CS	87	ARG	N-CA-C	-9.02	102.27	113.28
85	A5	3593	C	P-O3'-C3'	9.02	133.73	120.20
2	Ag	50	THR	CB-CA-C	9.02	128.37	110.42
36	B2	1218	C	N1-C1'-C2'	9.02	125.53	112.00
61	Ch	78	TYR	O-C-N	-9.02	110.60	122.59
85	A5	1907	A	P-O3'-C3'	9.02	133.72	120.20
10	AN	56	ASP	N-CA-C	9.01	121.19	111.36
85	A5	65	A	O4'-C1'-N9	9.01	121.72	108.20
36	B2	976	G	P-O5'-C5'	9.01	134.42	120.90
36	B2	1853	C	N1-C1'-C2'	9.01	125.52	112.00
74	CC	86	ARG	CB-CG-CD	9.01	132.03	111.30
36	B2	621	C	N1-C1'-C2'	9.01	125.51	112.00
74	CC	338	ASN	CA-C-O	-9.01	110.55	121.36
86	A7	25	G	N9-C1'-C2'	9.01	125.52	112.00
6	AX	62	PRO	CA-N-CD	-9.01	98.89	111.50
85	A5	1240	G	N9-C1'-C2'	-9.01	98.49	112.00
36	B2	242	U	C4'-C3'-O3'	-9.01	99.49	113.00
85	A5	4888	U	O4'-C1'-N1	9.01	121.71	108.20
47	CI	4	ARG	CD-NE-CZ	-9.00	111.79	124.40
85	A5	2458	C	N1-C1'-C2'	9.00	125.50	112.00
85	A5	1593	A	N9-C1'-C2'	9.00	125.50	112.00
85	A5	368	C	N1-C1'-C2'	8.99	125.49	112.00
85	A5	4624	A	O4'-C1'-C2'	-8.99	98.61	107.60
69	Cg	81	SER	O-C-N	-8.99	110.63	122.59
36	B2	951	C	C3'-C2'-C1'	8.99	110.29	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2506	G	P-O3'-C3'	8.99	133.68	120.20
86	A7	62	U	C4'-C3'-O3'	8.99	122.89	109.40
85	A5	1719	A	C2'-C3'-O3'	-8.99	100.22	113.70
85	A5	4326	G	N9-C1'-C2'	8.99	125.48	112.00
85	A5	2395	A	N9-C1'-C2'	8.98	127.47	114.00
85	A5	2666	U	P-O3'-C3'	-8.98	106.72	120.20
48	CD	233	PRO	CA-N-CD	-8.98	99.42	112.00
81	CE	93	THR	CA-CB-OG1	8.98	123.07	109.60
85	A5	990	C	O4'-C1'-C2'	-8.98	98.62	107.60
36	B2	1163	C	N1-C1'-C2'	8.98	125.47	112.00
74	CC	267	TRP	CA-C-O	-8.97	107.68	120.51
2	Ag	15	ASN	CA-C-N	-8.97	109.58	121.96
2	Ag	15	ASN	C-N-CA	-8.97	109.58	121.96
74	CC	335	MET	O-C-N	8.97	131.31	122.07
85	A5	5026	U	O4'-C4'-C3'	-8.97	95.03	104.00
85	A5	315	G	P-O5'-C5'	-8.97	107.44	120.90
85	A5	1677	U	N1-C1'-C2'	8.96	125.45	112.00
85	A5	3604	A	O4'-C1'-N9	8.96	121.95	108.50
26	AJ	89	GLU	CA-C-N	8.96	129.86	120.00
26	AJ	89	GLU	C-N-CA	8.96	129.86	120.00
40	CK	111	ASN	N-CA-C	-8.96	101.92	113.12
36	B2	356	C	O4'-C1'-N1	8.96	121.94	108.50
57	CY	45	ARG	N-CA-C	8.96	120.82	111.14
85	A5	2601	A	O4'-C1'-C2'	-8.96	96.84	105.80
36	B2	286	U	O4'-C1'-C2'	-8.96	98.64	107.60
85	A5	79	C	N1-C1'-C2'	8.96	125.44	112.00
36	B2	795	A	O4'-C1'-C2'	-8.96	98.64	107.60
85	A5	697	G	N9-C1'-C2'	8.95	125.43	112.00
85	A5	3633	C	O4'-C1'-C2'	-8.95	98.65	107.60
36	B2	1557	C	C2'-C3'-O3'	8.95	122.92	109.50
42	CL	29	PRO	CA-N-CD	-8.95	99.47	112.00
1	Az	794	PHE	CB-CA-C	8.95	127.56	109.76
25	Af	148	TYR	N-CA-C	8.95	129.86	110.80
36	B2	145	G	C1'-O4'-C4'	-8.95	100.95	109.90
36	B2	1279	C	O4'-C1'-C2'	-8.95	98.65	107.60
85	A5	21	G	O4'-C1'-C2'	-8.95	98.65	107.60
85	A5	4329	G	O4'-C1'-N9	8.95	121.92	108.50
8	AS	94	LYS	CA-C-N	8.94	133.96	120.82
8	AS	94	LYS	C-N-CA	8.94	133.96	120.82
36	B2	492	C	O4'-C1'-C2'	-8.94	96.86	105.80
85	A5	2802	C	O4'-C1'-C2'	-8.94	98.66	107.60
85	A5	2939	G	P-O3'-C3'	8.94	133.61	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	A8	90	C	O4'-C1'-C2'	-8.94	98.66	107.60
85	A5	4759	C	O4'-C1'-C2'	-8.94	98.67	107.60
36	B2	1612	G	N9-C1'-C2'	-8.93	98.60	112.00
85	A5	1210	C	C2'-C3'-O3'	8.93	122.90	109.50
47	CI	3	ARG	CA-C-N	-8.93	100.01	121.80
47	CI	3	ARG	C-N-CA	-8.93	100.01	121.80
86	A7	52	C	N1-C1'-C2'	8.93	125.40	112.00
6	AX	39	ASN	N-CA-C	8.93	119.86	109.60
50	CR	143	HIS	CB-CG-ND1	-8.93	109.31	122.70
1	Az	54	THR	N-CA-C	8.92	129.81	110.80
39	Cq	68	HIS	N-CA-C	-8.92	101.55	111.28
46	CN	84	PRO	CA-N-CD	-8.92	99.51	112.00
59	CZ	30	ASP	N-CA-C	-8.92	101.55	111.28
85	A5	1600	A	N9-C1'-C2'	8.92	125.39	112.00
85	A5	2930	G	C4'-C3'-O3'	8.92	123.38	110.00
85	A5	2263	A	O4'-C1'-C2'	-8.92	98.68	107.60
4	AK	35	LEU	N-CA-C	-8.92	91.81	110.80
36	B2	1226	G	N9-C1'-C2'	8.92	125.38	112.00
85	A5	1163	G	P-O3'-C3'	8.91	133.57	120.20
85	A5	2340	C	N1-C1'-C2'	8.91	125.37	112.00
10	AN	14	SER	N-CA-C	-8.91	98.75	110.43
68	Cf	59	THR	CA-CB-OG1	8.91	122.97	109.60
21	Ab	10	PRO	CA-N-CD	-8.91	99.53	112.00
81	CE	58	SER	CA-C-N	8.91	135.01	122.36
81	CE	58	SER	C-N-CA	8.91	135.01	122.36
85	A5	1681	G	C1'-O4'-C4'	-8.91	100.99	109.90
85	A5	4964	C	O3'-P-O5'	-8.91	90.63	104.00
85	A5	4612	C	N1-C1'-C2'	8.91	125.36	112.00
46	CN	79	ALA	CA-C-O	-8.91	107.77	120.51
48	CD	260	GLU	N-CA-CB	-8.90	95.44	110.49
85	A5	2005	G	P-O5'-C5'	-8.90	107.54	120.90
85	A5	2367	A	O4'-C1'-C2'	-8.90	98.70	107.60
36	B2	74	G	O4'-C1'-N9	8.90	121.85	108.50
60	Cr	56	ASP	CA-C-N	8.90	132.63	121.06
60	Cr	56	ASP	C-N-CA	8.90	132.63	121.06
25	Af	148	TYR	CA-C-N	8.90	135.50	122.16
25	Af	148	TYR	C-N-CA	8.90	135.50	122.16
36	B2	1352	G	C1'-O4'-C4'	-8.90	101.00	109.90
52	CS	160	ARG	N-CA-C	8.90	122.27	110.53
85	A5	1308	C	C3'-C2'-C1'	8.90	110.20	101.30
85	A5	2089	G	O4'-C1'-N9	8.89	121.84	108.50
36	B2	141	A	C2'-C3'-O3'	8.89	122.83	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	907	G	N9-C1'-C2'	8.89	125.34	112.00
47	CI	168	SER	CA-C-N	-8.89	108.71	122.49
47	CI	168	SER	C-N-CA	-8.89	108.71	122.49
84	Cv	18	PRO	CA-N-CD	-8.89	99.55	112.00
36	B2	732	U	P-O3'-C3'	8.89	133.53	120.20
36	B2	1436	C	C3'-C2'-C1'	8.89	110.19	101.30
82	CG	207	VAL	CA-C-N	-8.89	107.69	121.74
82	CG	207	VAL	C-N-CA	-8.89	107.69	121.74
85	A5	1516	G	N9-C1'-C2'	8.88	125.33	112.00
85	A5	980	U	O4'-C1'-C2'	-8.88	98.72	107.60
36	B2	170	A	C1'-O4'-C4'	-8.88	101.02	109.90
85	A5	2749	C	O4'-C1'-C2'	-8.88	98.72	107.60
85	A5	141	C	P-O3'-C3'	8.87	133.51	120.20
85	A5	1667	G	O4'-C1'-C2'	-8.87	98.73	107.60
36	B2	845	G	C4'-C3'-O3'	-8.87	99.70	113.00
67	Ce	38	PRO	CA-N-CD	-8.87	99.59	112.00
81	CE	37	PRO	CA-N-CD	-8.87	99.09	111.50
42	CL	164	GLU	CA-C-N	-8.86	104.61	121.54
42	CL	164	GLU	C-N-CA	-8.86	104.61	121.54
67	Ce	39	ARG	CA-C-N	-8.86	113.77	122.36
67	Ce	39	ARG	C-N-CA	-8.86	113.77	122.36
85	A5	1853	G	P-O3'-C3'	8.86	133.49	120.20
85	A5	452	A	O4'-C1'-N9	8.86	121.78	108.50
85	A5	1442	C	O4'-C1'-N1	8.86	121.78	108.50
16	AA	166	LYS	N-CA-C	-8.85	101.63	111.28
85	A5	936	C	P-O3'-C3'	8.85	133.48	120.20
36	B2	830	A	O4'-C1'-N9	8.85	121.77	108.50
85	A5	3598	C	N1-C1'-C2'	8.85	125.28	112.00
85	A5	3666	C	O4'-C1'-C2'	-8.85	98.75	107.60
85	A5	2096	G	C4'-C3'-O3'	-8.85	96.13	109.40
85	A5	2117	G	O4'-C1'-N9	8.85	121.77	108.50
85	A5	2370	A	C2'-C3'-O3'	8.84	122.77	109.50
85	A5	2638	G	N9-C1'-C2'	-8.84	98.73	112.00
16	AA	200	ASP	CA-CB-CG	-8.84	103.76	112.60
33	AI	133	GLU	O-C-N	-8.84	110.83	122.59
36	B2	171	A	O4'-C1'-N9	8.84	121.46	108.20
36	B2	284	C	O4'-C1'-C2'	-8.84	98.76	107.60
36	B2	228	C	C2'-C3'-O3'	8.84	122.76	109.50
36	B2	1557	C	P-O3'-C3'	8.84	133.46	120.20
36	B2	821	G	C2'-C3'-O3'	8.84	122.75	109.50
36	B2	1794	C	O4'-C1'-C2'	-8.84	98.76	107.60
53	CT	131	GLN	CA-C-N	-8.83	111.65	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	CT	131	GLN	C-N-CA	-8.83	111.65	120.31
81	CE	80	VAL	N-CA-C	8.83	127.71	109.34
60	Cr	91	SER	CA-C-N	-8.83	108.52	120.79
60	Cr	91	SER	C-N-CA	-8.83	108.52	120.79
1	Az	801	ARG	N-CA-CB	8.83	123.10	110.12
85	A5	1556	C	O4'-C1'-C2'	-8.83	98.77	107.60
36	B2	533	A	C4'-C3'-O3'	-8.83	99.76	113.00
85	A5	921	C	O4'-C1'-C2'	-8.83	98.77	107.60
83	Cs	44	PRO	CA-N-CD	-8.83	99.64	112.00
63	CB	314	ILE	CB-CA-C	-8.82	97.96	112.26
1	Az	821	PRO	CB-CA-C	8.82	119.88	110.00
54	CP	143	PRO	CA-N-CD	-8.82	99.66	112.00
36	B2	24	C	C4'-C3'-O3'	8.81	122.62	109.40
36	B2	889	U	O4'-C1'-N1	8.81	121.72	108.50
87	A8	87	G	O4'-C1'-N9	8.81	121.42	108.20
36	B2	1212	G	N9-C1'-C2'	8.81	125.22	112.00
36	B2	1409	A	O4'-C1'-C2'	-8.81	98.79	107.60
53	CT	26	PRO	CA-N-CD	-8.81	99.66	112.00
85	A5	3771	C	N1-C1'-C2'	8.81	125.21	112.00
74	CC	77	PRO	CA-N-CD	-8.80	99.68	112.00
85	A5	4134	C	N1-C1'-C2'	8.80	125.20	112.00
63	CB	112	ASP	CA-C-N	-8.80	104.73	121.54
63	CB	112	ASP	C-N-CA	-8.80	104.73	121.54
85	A5	4196	G	O4'-C1'-C2'	-8.80	98.80	107.60
85	A5	4921	C	O4'-C1'-C2'	-8.80	98.80	107.60
3	AU	69	PRO	N-CA-C	-8.80	96.69	110.50
27	AE	130	PHE	N-CA-C	8.80	123.24	108.90
36	B2	93	U	O4'-C1'-C2'	-8.80	98.80	107.60
87	A8	85	U	P-O3'-C3'	8.80	133.40	120.20
36	B2	1555	U	C2'-C3'-O3'	-8.80	100.51	113.70
85	A5	1251	C	O4'-C1'-C2'	-8.79	98.81	107.60
85	A5	1520	C	N1-C1'-C2'	8.80	125.19	112.00
36	B2	80	G	P-O5'-C5'	8.79	134.09	120.90
85	A5	322	C	O4'-C1'-C2'	-8.79	98.81	107.60
85	A5	3684	G	N9-C1'-C2'	8.79	125.18	112.00
36	B2	1625	U	C4'-C3'-O3'	-8.79	99.82	113.00
85	A5	706	C	N1-C1'-C2'	8.79	125.18	112.00
28	AC	58	LYS	CA-C-N	-8.79	109.70	122.44
28	AC	58	LYS	C-N-CA	-8.79	109.70	122.44
36	B2	161	U	O4'-C1'-C2'	-8.79	97.02	105.80
36	B2	1623	A	O4'-C1'-N9	8.79	121.68	108.50
36	B2	1675	A	N9-C1'-C2'	-8.79	98.82	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	CF	156	LYS	N-CA-C	8.79	120.63	111.14
81	CE	88	VAL	CB-CA-C	-8.79	96.88	111.29
85	A5	727	C	O4'-C1'-N1	8.78	121.68	108.50
52	CS	72	PRO	CA-C-N	8.78	138.31	121.54
52	CS	72	PRO	C-N-CA	8.78	138.31	121.54
85	A5	1285	U	N1-C1'-C2'	8.78	125.17	112.00
74	CC	35	ASP	CA-C-N	8.78	134.60	120.55
74	CC	35	ASP	C-N-CA	8.78	134.60	120.55
85	A5	1720	C	C2'-C3'-O3'	-8.78	100.54	113.70
13	AP	69	PRO	CA-N-CD	-8.77	99.72	112.00
16	AA	128	ARG	N-CA-C	8.77	120.62	111.14
85	A5	4898	G	O3'-P-O5'	-8.77	90.84	104.00
20	Aa	98	PRO	N-CA-C	8.77	121.40	110.70
36	B2	419	G	O4'-C1'-C2'	-8.77	98.83	107.60
85	A5	512	U	O4'-C1'-C2'	-8.77	98.83	107.60
36	B2	823	U	O4'-C1'-N1	8.77	121.66	108.50
82	CG	261	LEU	CA-C-N	-8.77	108.37	120.38
82	CG	261	LEU	C-N-CA	-8.77	108.37	120.38
85	A5	2292	C	O4'-C1'-C2'	-8.77	98.83	107.60
17	AV	47	ASN	N-CA-C	-8.77	93.97	108.34
36	B2	799	U	N1-C1'-C2'	8.77	125.15	112.00
11	AL	17	PHE	CA-C-N	8.76	133.16	120.71
11	AL	17	PHE	C-N-CA	8.76	133.16	120.71
85	A5	27	C	O4'-C1'-C2'	-8.76	98.84	107.60
85	A5	1361	G	O4'-C1'-N9	8.76	121.64	108.50
85	A5	2902	G	C3'-C2'-C1'	8.76	110.06	101.30
85	A5	4937	C	O4'-C1'-N1	8.76	121.64	108.50
36	B2	1415	C	N1-C1'-C2'	8.76	125.14	112.00
60	Cr	123	PRO	CA-N-CD	-8.76	99.74	112.00
85	A5	2789	A	O4'-C1'-N9	8.76	121.34	108.20
85	A5	2593	C	O4'-C1'-C2'	-8.76	98.84	107.60
81	CE	181	LEU	N-CA-C	8.75	120.59	111.14
42	CL	134	PRO	CA-C-N	-8.75	108.04	122.21
42	CL	134	PRO	C-N-CA	-8.75	108.04	122.21
49	CQ	144	LYS	N-CA-C	-8.75	97.14	110.70
47	CI	193	ASP	CA-C-N	-8.75	104.26	121.41
47	CI	193	ASP	C-N-CA	-8.75	104.26	121.41
36	B2	733	C	O4'-C1'-C2'	-8.75	98.85	107.60
36	B2	1501	C	O3'-P-O5'	-8.75	90.88	104.00
39	Cq	81	HIS	CB-CA-C	8.75	122.50	109.29
85	A5	135	G	C3'-C2'-C1'	8.75	110.05	101.30
85	A5	2406	G	P-O3'-C3'	8.75	133.32	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4402	C	O4'-C1'-C2'	-8.75	98.85	107.60
85	A5	4418	G	O4'-C1'-C2'	-8.75	98.85	107.60
49	CQ	16	LYS	N-CA-C	8.74	120.81	111.28
36	B2	1301	A	C2'-C3'-O3'	-8.74	100.59	113.70
36	B2	1789	G	O4'-C1'-C2'	-8.74	98.86	107.60
85	A5	4238	G	C1'-O4'-C4'	-8.74	101.16	109.90
18	AY	86	GLU	CB-CA-C	-8.74	92.95	110.17
85	A5	2783	A	O4'-C1'-C2'	-8.74	98.86	107.60
85	A5	3963	A	O4'-C1'-C2'	-8.74	98.86	107.60
26	AJ	179	LYS	CA-C-N	8.74	138.48	121.18
26	AJ	179	LYS	C-N-CA	8.74	138.48	121.18
27	AE	43	PRO	CA-N-CD	-8.74	99.77	112.00
36	B2	1430	C	O4'-C1'-C2'	-8.74	98.86	107.60
85	A5	1071	C	O4'-C1'-C2'	-8.74	97.06	105.80
85	A5	4639	G	P-O3'-C3'	8.74	133.30	120.20
36	B2	198	U	O4'-C1'-N1	8.73	121.60	108.50
85	A5	16	G	P-O3'-C3'	8.73	133.30	120.20
47	CI	211	VAL	O-C-N	-8.73	111.65	122.57
36	B2	1412	C	C2'-C3'-O3'	-8.73	100.60	113.70
39	Cq	6	ARG	N-CA-C	8.73	129.40	110.80
85	A5	2767	U	O4'-C1'-N1	8.73	121.59	108.50
24	Ae	48	THR	O-C-N	-8.73	111.84	123.10
85	A5	13	U	O4'-C1'-N1	8.73	121.29	108.20
85	A5	4286	C	O4'-C1'-C2'	-8.73	98.87	107.60
85	A5	464	G	N9-C1'-C2'	8.72	125.09	112.00
85	A5	733	A	C3'-C2'-C1'	-8.72	92.58	101.30
85	A5	1287	G	P-O5'-C5'	8.72	133.98	120.90
36	B2	546	G	P-O3'-C3'	8.72	133.28	120.20
85	A5	3867	A	N9-C1'-C2'	8.72	125.08	112.00
85	A5	364	G	N9-C1'-C2'	8.72	127.08	114.00
36	B2	1006	C	N1-C1'-C2'	8.71	125.07	112.00
16	AA	147	LEU	CA-C-N	-8.71	109.32	122.74
16	AA	147	LEU	C-N-CA	-8.71	109.32	122.74
24	Ae	3	HIS	CA-C-N	8.71	138.49	121.41
24	Ae	3	HIS	C-N-CA	8.71	138.49	121.41
30	AF	37	ASP	N-CA-C	8.71	129.35	110.80
85	A5	2477	A	O4'-C1'-C2'	-8.71	98.89	107.60
86	A7	1	G	C3'-C2'-C1'	8.71	110.01	101.30
85	A5	2761	U	C3'-C2'-C1'	8.70	110.00	101.30
10	AN	81	ALA	C-N-CD	-8.70	89.33	125.00
11	AL	62	PHE	CA-CB-CG	-8.70	105.10	113.80
68	Cf	104	MET	CG-SD-CE	8.70	120.04	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2058	G	N9-C1'-C2'	8.70	125.05	112.00
85	A5	2787	A	O4'-C1'-N9	8.70	121.55	108.50
85	A5	2904	U	O4'-C1'-N1	8.70	121.55	108.50
85	A5	4623	G	O4'-C1'-C2'	-8.69	98.91	107.60
85	A5	3833	C	O4'-C1'-C2'	-8.69	98.91	107.60
85	A5	4764	A	O4'-C1'-C2'	8.68	116.28	107.60
28	AC	232	THR	CA-C-N	8.68	138.11	121.54
28	AC	232	THR	C-N-CA	8.68	138.11	121.54
9	Ad	9	SER	N-CA-C	8.67	123.58	108.75
13	AP	17	TYR	CB-CA-C	8.67	127.68	110.42
63	CB	110	ILE	CA-C-N	-8.67	110.55	122.86
63	CB	110	ILE	C-N-CA	-8.67	110.55	122.86
58	CW	32	LEU	N-CA-C	8.67	123.15	112.23
85	A5	1651	G	N9-C1'-C2'	8.67	125.00	112.00
86	A7	64	G	P-O3'-C3'	-8.67	107.20	120.20
85	A5	1217	G	O4'-C1'-N9	8.66	121.50	108.50
85	A5	1166	G	N9-C1'-C2'	8.66	126.99	114.00
85	A5	2902	G	O4'-C1'-C2'	-8.66	98.94	107.60
36	B2	237	C	O4'-C1'-C2'	-8.66	97.14	105.80
36	B2	1474	A	O4'-C1'-N9	8.66	121.49	108.50
36	B2	1512	C	C3'-C2'-C1'	8.66	109.96	101.30
74	CC	43	ASN	N-CA-C	-8.66	102.42	113.16
85	A5	3655	C	O4'-C1'-C2'	-8.66	98.94	107.60
23	AD	4	GLN	CA-C-O	8.66	132.89	120.51
85	A5	733	A	O4'-C1'-N9	8.66	121.49	108.50
47	CI	4	ARG	N-CA-C	8.65	128.94	109.81
85	A5	1922	G	O5'-C5'-C4'	-8.65	98.52	111.50
85	A5	4448	G	P-O3'-C3'	8.65	133.18	120.20
27	AE	164	LEU	CA-C-N	-8.65	108.86	120.63
27	AE	164	LEU	C-N-CA	-8.65	108.86	120.63
36	B2	230	A	O4'-C1'-C2'	-8.65	98.95	107.60
36	B2	339	A	C2'-C3'-O3'	8.65	126.68	113.70
36	B2	908	A	C4'-C3'-O3'	-8.65	100.03	113.00
85	A5	2068	C	P-O3'-C3'	8.65	133.17	120.20
38	Cz	208	SER	O-C-N	8.64	134.38	123.15
85	A5	1245	C	C1'-O4'-C4'	-8.64	101.26	109.90
85	A5	2267	U	P-O3'-C3'	8.64	133.16	120.20
85	A5	3791	C	O4'-C1'-C2'	-8.64	97.16	105.80
2	Ag	142	VAL	O-C-N	8.64	133.37	122.57
85	A5	2669	C	O4'-C1'-N1	8.64	121.16	108.20
47	CI	193	ASP	O-C-N	-8.64	114.18	123.42
79	CJ	12	MET	N-CA-C	-8.64	92.40	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	Cu	44	SER	O-C-N	-8.64	112.30	122.15
85	A5	2293	U	N1-C1'-C2'	8.64	124.96	112.00
28	AC	57	ASP	CA-C-N	-8.63	105.05	121.54
28	AC	57	ASP	C-N-CA	-8.63	105.05	121.54
40	CK	104	ILE	CA-CB-CG2	-8.63	95.82	110.50
85	A5	953	C	O4'-C1'-C2'	-8.63	98.97	107.60
85	A5	4584	A	N9-C1'-C2'	8.63	124.95	112.00
85	A5	2576	G	C1'-O4'-C4'	-8.63	101.27	109.90
74	CC	54	VAL	O-C-N	8.63	133.35	122.57
85	A5	4402	C	N1-C1'-C2'	8.63	124.94	112.00
36	B2	519	A	O4'-C1'-C2'	-8.62	98.98	107.60
85	A5	1296	G	O4'-C1'-N9	8.62	121.13	108.20
48	CD	218	ALA	N-CA-CB	8.62	122.92	110.16
36	B2	1298	G	O4'-C1'-N9	8.62	121.42	108.50
36	B2	1581	C	O4'-C1'-C2'	-8.62	97.19	105.80
85	A5	1532	G	C1'-O4'-C4'	-8.61	101.29	109.90
85	A5	4598	C	O4'-C1'-C2'	-8.61	98.99	107.60
3	AU	57	PRO	CA-N-CD	-8.61	99.94	112.00
85	A5	2248	C	O4'-C1'-C2'	-8.61	98.99	107.60
16	AA	133	PRO	CA-N-CD	-8.61	99.94	112.00
36	B2	144	U	N1-C1'-C2'	8.61	124.92	112.00
36	B2	484	A	P-O3'-C3'	8.61	133.12	120.20
49	CQ	21	GLN	O-C-N	-8.61	113.20	122.07
85	A5	1824	G	C2'-C3'-O3'	8.61	126.61	113.70
85	A5	1972	G	O4'-C1'-C2'	8.61	116.21	107.60
85	A5	4145	C	O4'-C1'-C2'	-8.61	98.99	107.60
36	B2	1427	C	O4'-C1'-C2'	-8.61	98.99	107.60
85	A5	2107	C	N1-C1'-C2'	8.61	126.91	114.00
85	A5	3809	G	O4'-C1'-N9	8.61	121.11	108.20
39	Cq	255	THR	CA-C-O	-8.61	108.64	119.31
85	A5	4719	G	P-O3'-C3'	8.61	133.11	120.20
81	CE	243	THR	CA-C-O	-8.60	111.43	120.55
36	B2	1418	C	P-O3'-C3'	8.60	133.10	120.20
53	CT	14	MET	N-CA-C	8.60	120.43	111.14
85	A5	4993	G	O4'-C1'-N9	8.60	121.40	108.50
36	B2	1747	C	P-O3'-C3'	8.59	133.09	120.20
85	A5	1972	G	C1'-O4'-C4'	-8.59	101.31	109.90
86	A7	101	A	C1'-O4'-C4'	-8.59	101.31	109.90
63	CB	112	ASP	N-CA-C	-8.59	92.50	110.80
36	B2	1409	A	P-O3'-C3'	8.59	133.08	120.20
8	AS	6	PRO	N-CA-C	8.59	133.56	112.10
15	AB	55	THR	N-CA-C	-8.59	103.87	112.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AJ	17	ARG	N-CA-C	-8.59	101.84	111.71
27	AE	258	ALA	CA-C-N	-8.58	105.81	121.69
27	AE	258	ALA	C-N-CA	-8.58	105.81	121.69
85	A5	501	C	O4'-C1'-C2'	-8.58	99.02	107.60
85	A5	3897	G	O4'-C1'-C2'	8.58	114.38	105.80
4	AK	89	ILE	CA-C-O	-8.58	110.05	120.78
45	Ca	97	ALA	CB-CA-C	8.58	127.50	110.42
85	A5	2266	C	C4'-C3'-O3'	-8.58	96.53	109.40
86	A7	73	U	N1-C1'-C2'	8.58	124.87	112.00
36	B2	320	G	C4'-C3'-O3'	8.58	125.87	113.00
36	B2	828	G	O4'-C1'-C2'	8.58	116.18	107.60
74	CC	307	LYS	N-CA-CB	-8.58	95.99	110.49
75	Cm	106	ARG	CA-C-N	-8.58	106.37	120.87
75	Cm	106	ARG	C-N-CA	-8.58	106.37	120.87
85	A5	1641	G	O4'-C1'-C2'	-8.58	97.22	105.80
85	A5	4899	G	P-O3'-C3'	8.58	133.06	120.20
85	A5	1379	C	O4'-C1'-C2'	-8.57	97.22	105.80
68	Cf	109	ARG	CA-C-N	8.57	137.13	121.70
68	Cf	109	ARG	C-N-CA	8.57	137.13	121.70
81	CE	36	LYS	O-C-N	8.57	131.18	121.32
85	A5	2016	C	C4'-C3'-O3'	-8.57	100.14	113.00
85	A5	4989	U	O3'-P-O5'	8.57	116.86	104.00
36	B2	931	C	C5'-C4'-C3'	-8.57	103.14	116.00
31	AH	109	ARG	O-C-N	8.57	133.98	122.59
86	A7	74	A	O4'-C1'-C2'	-8.57	97.23	105.80
36	B2	79	A	C4'-C3'-C2'	-8.56	94.03	102.60
36	B2	1018	U	N1-C1'-C2'	8.56	124.85	112.00
66	Cd	110	PRO	CA-N-CD	-8.56	100.01	112.00
85	A5	3863	C	N1-C1'-C2'	8.56	124.84	112.00
85	A5	1821	G	O4'-C1'-N9	8.55	121.33	108.50
36	B2	25	A	O4'-C1'-C2'	-8.55	97.25	105.80
68	Cf	100	ARG	N-CA-CB	8.55	122.67	110.44
85	A5	2455	G	N9-C1'-C2'	8.55	124.83	112.00
85	A5	4943	A	C1'-C2'-O2'	8.55	121.23	108.40
85	A5	295	A	P-O5'-C5'	-8.55	108.08	120.90
85	A5	1401	C	O4'-C1'-C2'	-8.55	99.05	107.60
85	A5	2879	A	O4'-C1'-C2'	-8.55	97.25	105.80
36	B2	1041	G	C1'-O4'-C4'	-8.54	101.36	109.90
81	CE	188	ARG	N-CA-CB	-8.54	96.49	110.42
85	A5	1722	C	C3'-C2'-C1'	8.54	109.84	101.30
85	A5	1794	A	C3'-C2'-C1'	8.54	109.84	101.30
85	A5	3785	A	O4'-C1'-N9	8.54	121.02	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1370	A	O4'-C1'-C2'	-8.54	99.06	107.60
85	A5	1841	C	P-O3'-C3'	8.54	133.01	120.20
25	Af	88	PRO	O-C-N	-8.54	111.11	122.64
31	AH	109	ARG	CA-CB-CG	-8.54	97.03	114.10
85	A5	736	C	N1-C1'-C2'	8.54	124.80	112.00
36	B2	125	C	O3'-P-O5'	8.53	116.80	104.00
85	A5	1480	C	O4'-C1'-C2'	-8.54	97.27	105.80
52	CS	13	VAL	N-CA-C	-8.53	95.22	108.44
1	Az	166	GLU	N-CA-C	8.53	120.35	111.14
10	AN	7	PRO	CA-N-CD	-8.53	100.06	112.00
36	B2	1696	C	N1-C1'-C2'	8.53	124.79	112.00
85	A5	1343	A	C3'-C2'-C1'	8.53	109.83	101.30
85	A5	1436	C	N1-C1'-C2'	8.53	124.79	112.00
36	B2	1418	C	C1'-O4'-C4'	-8.53	101.17	109.70
61	Ch	121	VAL	N-CA-C	8.53	119.22	108.82
85	A5	647	G	O4'-C1'-C2'	-8.53	99.07	107.60
36	B2	97	U	N1-C1'-C2'	8.52	124.79	112.00
85	A5	2073	C	N1-C1'-C2'	8.52	124.79	112.00
85	A5	2613	C	N1-C1'-C2'	8.52	124.79	112.00
81	CE	113	PRO	CA-N-CD	-8.52	100.07	112.00
81	CE	140	LEU	O-C-N	-8.52	112.11	123.10
85	A5	1376	C	N1-C1'-C2'	8.52	124.78	112.00
36	B2	92	A	N9-C1'-C2'	8.52	126.77	114.00
36	B2	530	U	P-O5'-C5'	-8.52	108.13	120.90
80	CH	54	ARG	N-CA-C	8.52	121.53	108.42
85	A5	1276	C	N1-C1'-C2'	8.52	124.77	112.00
78	Co	55	ILE	CA-C-N	-8.51	110.58	122.93
78	Co	55	ILE	C-N-CA	-8.51	110.58	122.93
85	A5	1266	G	C2'-C3'-O3'	8.51	122.27	109.50
18	AY	87	PRO	CA-N-CD	-8.51	100.08	112.00
47	CI	169	LYS	N-CA-C	-8.51	101.89	113.30
85	A5	4684	A	O4'-C1'-C2'	-8.51	99.09	107.60
11	AL	150	GLY	N-CA-C	-8.51	98.00	112.30
36	B2	729	C	O4'-C1'-C2'	-8.51	99.09	107.60
66	Cd	13	GLY	N-CA-C	8.51	133.35	113.18
81	CE	32	LEU	CB-CA-C	8.51	124.32	110.37
81	CE	128	HIS	CA-CB-CG	8.51	122.31	113.80
38	Cz	96	ASN	N-CA-C	-8.51	102.09	111.36
52	CS	146	HIS	N-CA-CB	8.51	124.87	110.49
85	A5	4230	C	C1'-O4'-C4'	-8.51	101.39	109.90
85	A5	4885	U	P-O5'-C5'	8.50	133.65	120.90
36	B2	1780	G	O3'-P-O5'	8.50	116.75	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	CS	175	PHE	CA-CB-CG	8.50	122.30	113.80
68	Cf	33	VAL	N-CA-C	-8.50	96.33	108.65
85	A5	1840	G	C1'-O4'-C4'	-8.50	101.40	109.90
31	AH	191	GLU	O-C-N	-8.50	111.29	122.59
74	CC	36	ILE	N-CA-C	8.50	120.26	111.00
81	CE	96	VAL	CA-C-N	8.49	134.60	120.25
81	CE	96	VAL	C-N-CA	8.49	134.60	120.25
85	A5	926	G	O4'-C1'-N9	8.49	120.94	108.20
85	A5	1680	G	C1'-O4'-C4'	-8.49	101.41	109.90
8	AS	49	ASP	O-C-N	-8.49	112.39	122.58
36	B2	550	C	O3'-P-O5'	-8.49	91.27	104.00
39	Cq	94	ASP	N-CA-C	8.49	128.88	110.80
85	A5	2834	C	O4'-C1'-C2'	-8.49	97.31	105.80
2	Ag	234	ASP	CA-CB-CG	-8.48	104.12	112.60
36	B2	1792	G	O4'-C1'-C2'	8.48	116.08	107.60
4	AK	90	VAL	N-CA-C	8.48	127.19	108.88
58	CW	71	ARG	CA-C-O	-8.48	108.39	120.51
85	A5	1269	G	C3'-C2'-C1'	8.48	109.78	101.30
85	A5	4994	G	N9-C1'-C2'	8.48	124.72	112.00
36	B2	615	C	N1-C1'-C2'	8.47	124.71	112.00
82	CG	76	VAL	CA-C-N	8.47	125.85	119.66
82	CG	76	VAL	C-N-CA	8.47	125.85	119.66
85	A5	70	A	O4'-C1'-N9	8.47	120.91	108.20
36	B2	1292	C	C3'-C2'-C1'	8.47	109.77	101.30
85	A5	657	C	C4'-C3'-O3'	-8.47	100.29	113.00
85	A5	3891	A	C2'-C3'-O3'	-8.47	100.99	113.70
87	A8	153	C	C5'-C4'-C3'	8.47	128.71	116.00
85	A5	1810	G	N9-C1'-C2'	8.47	124.71	112.00
87	A8	51	U	O4'-C1'-C2'	8.47	114.27	105.80
1	Az	154	VAL	CA-C-O	-8.47	111.20	120.43
48	CD	260	GLU	CA-C-N	8.47	137.22	121.97
48	CD	260	GLU	C-N-CA	8.47	137.22	121.97
58	CW	3	VAL	N-CA-C	-8.47	96.37	108.65
85	A5	2415	U	P-O3'-C3'	8.47	132.91	120.20
74	CC	335	MET	N-CA-C	-8.47	102.01	111.07
27	AE	133	THR	N-CA-C	8.47	122.04	109.59
36	B2	1538	C	O4'-C1'-C2'	-8.47	99.13	107.60
58	CW	71	ARG	N-CA-C	8.47	128.84	110.80
81	CE	27	VAL	O-C-N	-8.47	109.45	123.00
85	A5	938	C	O4'-C1'-C2'	-8.47	97.33	105.80
85	A5	3954	A	O4'-C1'-C2'	-8.47	99.13	107.60
16	AA	5	LEU	N-CA-C	8.47	120.13	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	323	C	C2'-C3'-O3'	8.46	122.20	109.50
36	B2	556	U	N1-C1'-C2'	8.46	124.70	112.00
85	A5	2458	C	O4'-C1'-C2'	-8.46	99.14	107.60
36	B2	1475	G	P-O5'-C5'	8.46	133.59	120.90
47	CI	206	LEU	N-CA-CB	8.46	124.78	110.49
85	A5	333	U	P-O3'-C3'	8.46	132.89	120.20
36	B2	1016	U	C3'-C2'-C1'	8.46	109.96	101.50
46	CN	47	LYS	N-CA-C	8.46	120.27	111.14
27	AE	30	ARG	CA-C-N	8.45	128.96	119.83
27	AE	30	ARG	C-N-CA	8.45	128.96	119.83
36	B2	531	A	C1'-O4'-C4'	-8.45	101.45	109.90
85	A5	2546	G	O3'-P-O5'	8.45	116.68	104.00
36	B2	1412	C	P-O3'-C3'	8.45	132.87	120.20
85	A5	4267	G	C1'-O4'-C4'	-8.45	101.45	109.90
86	A7	106	G	O4'-C1'-C2'	8.45	116.05	107.60
85	A5	1270	A	P-O5'-C5'	8.45	133.57	120.90
85	A5	4744	A	P-O3'-C3'	8.44	132.87	120.20
4	AK	46	MET	N-CA-CB	8.44	122.25	110.01
5	AO	43	HIS	N-CA-C	8.44	128.78	110.80
15	AB	54	GLY	N-CA-C	-8.44	103.18	113.99
86	A7	31	G	N9-C1'-C2'	8.44	124.66	112.00
36	B2	182	C	O4'-C1'-C2'	-8.44	99.16	107.60
36	B2	1041	G	O4'-C1'-C2'	8.44	116.04	107.60
85	A5	975	C	C3'-C2'-C1'	8.44	109.74	101.30
85	A5	370	U	N1-C1'-C2'	8.44	124.66	112.00
36	B2	210	U	P-O3'-C3'	8.44	132.86	120.20
52	CS	60	GLU	CA-C-O	8.44	130.48	121.45
85	A5	2851	G	N9-C1'-C2'	8.44	124.66	112.00
12	AR	3	ARG	N-CA-CB	8.44	127.68	110.64
81	CE	36	LYS	N-CA-CB	-8.44	95.35	110.37
36	B2	1079	C	C3'-C2'-C1'	8.43	109.73	101.30
36	B2	73	C	O4'-C1'-N1	8.43	120.85	108.20
40	CK	89	PRO	CA-N-CD	-8.43	99.70	111.50
87	A8	77	A	O4'-C1'-C2'	-8.43	99.17	107.60
56	CX	120	ASP	CA-C-N	-8.42	106.81	121.97
56	CX	120	ASP	C-N-CA	-8.42	106.81	121.97
85	A5	1104	C	N1-C1'-C2'	8.42	124.63	112.00
85	A5	1187	G	O4'-C1'-C2'	-8.42	99.18	107.60
66	Cd	18	ASN	O-C-N	8.41	130.85	121.93
85	A5	1486	C	N1-C1'-C2'	8.41	124.62	112.00
85	A5	2471	G	P-O5'-C5'	8.41	133.52	120.90
85	A5	3269	G	P-O5'-C5'	8.41	132.62	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ag	161	SER	N-CA-C	8.41	123.63	113.12
26	AJ	91	LYS	O-C-N	-8.41	111.41	122.59
36	B2	953	C	C4'-C3'-O3'	-8.41	100.38	113.00
36	B2	743	U	O4'-C1'-C2'	-8.41	97.39	105.80
36	B2	1148	A	O4'-C1'-N9	8.41	120.81	108.20
36	B2	1664	A	N9-C1'-C2'	8.40	126.61	114.00
85	A5	3980	G	P-O3'-C3'	8.40	132.81	120.20
81	CE	100	LYS	O-C-N	-8.40	102.42	121.74
56	CX	51	THR	O-C-N	-8.40	111.85	123.11
85	A5	2574	G	O4'-C1'-C2'	-8.40	99.20	107.60
85	A5	1561	G	O4'-C1'-N9	8.40	121.10	108.50
4	AK	86	PRO	CA-C-N	8.40	130.34	119.84
4	AK	86	PRO	C-N-CA	8.40	130.34	119.84
11	AL	148	ALA	N-CA-C	8.40	122.61	110.10
36	B2	281	C	O3'-P-O5'	8.40	116.60	104.00
36	B2	386	C	N1-C1'-C2'	8.40	124.60	112.00
85	A5	1086	C	P-O3'-C3'	8.39	132.79	120.20
12	AR	89	SER	CA-C-N	-8.39	103.49	121.45
12	AR	89	SER	C-N-CA	-8.39	103.49	121.45
85	A5	661	C	P-O3'-C3'	8.39	132.79	120.20
1	Az	497	MET	CA-C-N	8.39	137.57	121.54
1	Az	497	MET	C-N-CA	8.39	137.57	121.54
85	A5	1076	C	N1-C1'-C2'	8.39	124.58	112.00
83	Ct	44	PRO	CA-N-CD	-8.38	100.26	112.00
57	CY	5	PRO	CA-N-CD	-8.38	100.27	112.00
36	B2	1542	C	O5'-C5'-C4'	8.38	124.07	111.50
36	B2	70	G	O3'-P-O5'	-8.38	91.44	104.00
36	B2	145	G	N9-C1'-C2'	8.38	124.56	112.00
82	CG	49	ARG	N-CA-C	8.38	122.14	109.41
85	A5	4656	A	P-O3'-C3'	8.37	132.75	120.20
26	AJ	91	LYS	N-CA-C	-8.37	92.98	110.80
74	CC	46	LYS	N-CA-C	-8.37	101.06	113.61
85	A5	4751	G	O4'-C1'-N9	8.37	121.05	108.50
1	Az	272	LYS	N-CA-C	8.37	122.12	108.99
36	B2	191	A	O3'-P-O5'	8.37	116.55	104.00
28	AC	260	VAL	N-CA-C	-8.36	101.08	110.62
42	CL	49	ARG	O-C-N	-8.36	109.62	123.00
3	AU	68	THR	CA-C-N	-8.36	109.94	120.23
3	AU	68	THR	C-N-CA	-8.36	109.94	120.23
40	CK	130	LYS	CB-CG-CD	8.36	130.53	111.30
49	CQ	141	GLY	CA-C-N	8.36	130.29	119.84
49	CQ	141	GLY	C-N-CA	8.36	130.29	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2423	A	O4'-C1'-C2'	-8.36	99.24	107.60
24	Ae	26	LYS	N-CA-C	-8.36	95.62	109.07
85	A5	1410	U	O4'-C1'-N1	8.36	121.03	108.50
85	A5	4749	C	C1'-O4'-C4'	8.35	118.05	109.70
38	Cz	210	MET	CA-C-N	-8.35	108.70	120.56
38	Cz	210	MET	C-N-CA	-8.35	108.70	120.56
36	B2	208	G	N9-C1'-C2'	8.35	124.52	112.00
36	B2	496	C	O4'-C1'-C2'	-8.35	99.25	107.60
53	CT	149	GLU	CA-C-N	-8.35	110.42	122.19
53	CT	149	GLU	C-N-CA	-8.35	110.42	122.19
85	A5	1812	C	N1-C1'-C2'	8.35	124.52	112.00
85	A5	2786	C	C4'-C3'-O3'	-8.35	100.47	113.00
36	B2	74	G	C3'-C2'-C1'	8.35	109.65	101.30
85	A5	416	U	P-O3'-C3'	-8.35	107.68	120.20
85	A5	2246	C	O4'-C1'-C2'	-8.35	99.25	107.60
8	AS	50	ILE	N-CA-C	8.34	120.63	108.53
52	CS	7	LEU	N-CA-C	8.34	122.45	109.52
8	AS	94	LYS	CA-C-O	8.34	130.32	121.15
85	A5	1648	C	O4'-C1'-C2'	-8.34	99.26	107.60
35	Ah	157	ILE	CA-C-N	-8.34	111.13	122.72
35	Ah	157	ILE	C-N-CA	-8.34	111.13	122.72
3	AU	104	ILE	CA-C-N	-8.33	110.53	122.36
3	AU	104	ILE	C-N-CA	-8.33	110.53	122.36
33	AI	184	ARG	CB-CA-C	-8.33	94.46	109.71
36	B2	1083	A	C1'-O4'-C4'	-8.33	101.57	109.90
74	CC	154	VAL	O-C-N	-8.33	114.31	122.98
36	B2	1471	C	N1-C1'-C2'	8.33	124.50	112.00
85	A5	2267	U	O4'-C1'-N1	8.33	120.70	108.20
36	B2	395	G	C1'-O4'-C4'	-8.33	101.57	109.90
74	CC	262	GLU	CA-C-O	-8.33	108.60	120.51
19	AZ	104	ARG	N-CA-CB	-8.33	96.42	110.49
59	CZ	99	ASP	CA-C-N	8.33	131.87	120.46
59	CZ	99	ASP	C-N-CA	8.33	131.87	120.46
85	A5	1275	G	P-O5'-C5'	8.33	133.39	120.90
19	AZ	70	PRO	CA-N-CD	-8.32	100.35	112.00
36	B2	401	A	O4'-C1'-C2'	-8.32	99.28	107.60
44	CM	65	PRO	CB-CA-C	-8.32	97.82	111.56
36	B2	553	U	C4'-C3'-C2'	-8.32	94.28	102.60
85	A5	1478	C	P-O5'-C5'	8.32	133.38	120.90
85	A5	1441	C	P-O3'-C3'	8.32	132.68	120.20
36	B2	211	G	C4'-C3'-O3'	-8.32	100.52	113.00
36	B2	1655	C	N1-C1'-C2'	8.32	124.47	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4127	A	O3'-P-O5'	-8.32	91.53	104.00
36	B2	191	A	O4'-C1'-C2'	-8.31	99.29	107.60
36	B2	295	C	O4'-C1'-C2'	-8.31	99.28	107.60
36	B2	695	C	O4'-C1'-C2'	-8.31	99.29	107.60
36	B2	1637	A	P-O3'-C3'	8.31	132.67	120.20
85	A5	2301	G	C1'-O4'-C4'	-8.31	101.58	109.90
42	CL	132	SER	N-CA-C	8.31	125.62	113.40
58	CW	71	ARG	CB-CA-C	-8.31	93.88	110.42
85	A5	4694	G	O4'-C1'-N9	8.31	120.67	108.20
86	A7	84	U	O4'-C1'-N1	8.31	120.67	108.20
11	AL	18	GLN	CA-C-N	-8.31	108.77	121.40
11	AL	18	GLN	C-N-CA	-8.31	108.77	121.40
13	AP	53	GLN	N-CA-C	-8.31	103.24	112.72
85	A5	2528	G	O4'-C1'-C2'	8.31	115.91	107.60
85	A5	2422	C	N1-C1'-C2'	8.31	124.46	112.00
70	Ci	1	MET	CA-C-O	-8.30	106.68	120.80
74	CC	104	PRO	CA-N-CD	-8.31	100.37	112.00
85	A5	2415	U	O3'-P-O5'	8.31	116.46	104.00
36	B2	636	C	P-O5'-C5'	8.30	133.35	120.90
40	CK	39	PRO	CA-N-CD	-8.30	100.38	112.00
68	Cf	100	ARG	CD-NE-CZ	-8.30	112.77	124.40
85	A5	1102	U	P-O3'-C3'	8.30	132.65	120.20
85	A5	4054	C	O4'-C1'-C2'	-8.30	99.30	107.60
85	A5	4345	C	N1-C1'-C2'	8.30	124.45	112.00
33	AI	184	ARG	NE-CZ-NH1	-8.30	113.20	121.50
35	Ah	176	GLY	N-CA-C	8.30	132.85	113.18
12	AR	87	GLU	CB-CA-C	-8.30	96.75	110.85
85	A5	930	G	P-O3'-C3'	8.29	132.64	120.20
85	A5	2063	G	O4'-C1'-C2'	8.29	115.89	107.60
15	AB	77	ASP	N-CA-C	8.29	128.46	110.80
85	A5	4129	G	P-O3'-C3'	-8.29	107.76	120.20
51	CA	229	ALA	C-N-CD	-8.29	91.01	125.00
70	Ci	6	PRO	CB-CA-C	-8.29	97.88	111.56
74	CC	155	GLU	CB-CA-C	-8.29	97.82	110.26
85	A5	168	C	O4'-C1'-C2'	-8.29	99.31	107.60
85	A5	951	G	N9-C1'-C2'	8.29	124.44	112.00
85	A5	982	U	O4'-C1'-C2'	-8.29	99.31	107.60
36	B2	1060	A	O4'-C1'-N9	8.29	120.63	108.20
36	B2	1822	A	O3'-P-O5'	-8.28	91.58	104.00
72	Ck	31	ASN	CA-C-N	-8.29	107.06	121.97
72	Ck	31	ASN	C-N-CA	-8.29	107.06	121.97
85	A5	4457	U	N1-C1'-C2'	8.28	124.43	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1963	C	C4'-C3'-O3'	-8.28	100.58	113.00
36	B2	1373	C	O4'-C1'-C2'	-8.28	99.32	107.60
14	AT	30	VAL	N-CA-C	8.28	126.76	108.88
36	B2	487	U	P-O3'-C3'	8.28	132.62	120.20
57	CY	43	ASN	N-CA-C	-8.28	93.17	110.80
33	AI	55	TYR	CA-CB-CG	-8.28	99.00	113.90
85	A5	2090	U	O5'-C5'-C4'	8.28	124.12	111.70
85	A5	3595	U	O4'-C1'-N1	8.28	120.92	108.50
62	Cb	36	ASP	N-CA-C	8.27	121.73	110.31
36	B2	1293	A	N9-C1'-C2'	8.27	124.41	112.00
77	Cp	56	HIS	CB-CA-C	-8.27	96.14	110.45
37	BC	11	C	N1-C1'-C2'	8.27	124.40	112.00
56	CX	53	ARG	CA-C-O	-8.27	110.37	121.86
85	A5	293	G	C2'-C3'-O3'	8.27	126.10	113.70
85	A5	678	C	N1-C1'-C2'	8.27	124.40	112.00
12	AR	89	SER	CA-C-O	-8.27	108.69	120.51
64	CF	23	ARG	CA-C-O	8.27	132.33	120.51
36	B2	1411	G	C1'-O4'-C4'	-8.27	101.64	109.90
85	A5	4894	A	C3'-C2'-C1'	-8.27	93.03	101.30
85	A5	971	U	C5'-C4'-C3'	8.26	128.40	116.00
85	A5	3667	C	O4'-C1'-C2'	-8.26	99.34	107.60
36	B2	1316	C	N1-C1'-C2'	8.26	124.39	112.00
85	A5	450	G	O4'-C1'-N9	8.26	120.89	108.50
36	B2	1409	A	C5'-C4'-C3'	8.26	128.39	116.00
36	B2	1660	C	C5'-C4'-C3'	-8.26	103.61	116.00
85	A5	3252	A	P-O3'-C3'	8.26	132.59	120.20
85	A5	1071	C	P-O3'-C3'	8.25	132.58	120.20
85	A5	119	G	O4'-C1'-C2'	-8.25	97.55	105.80
85	A5	189	G	O4'-C1'-C2'	8.25	115.85	107.60
85	A5	1341	U	O4'-C1'-C2'	-8.25	99.35	107.60
85	A5	1771	U	O4'-C1'-N1	8.25	120.87	108.50
87	A8	19	C	O3'-P-O5'	-8.25	91.63	104.00
87	A8	96	C	P-O5'-C5'	-8.24	108.53	120.90
87	A8	124	U	P-O3'-C3'	8.24	132.57	120.20
17	AV	10	ASP	CA-C-N	-8.24	109.47	122.08
17	AV	10	ASP	C-N-CA	-8.24	109.47	122.08
85	A5	2551	A	C4'-C3'-O3'	-8.24	100.64	113.00
36	B2	839	C	C1'-O4'-C4'	-8.24	101.46	109.70
85	A5	2423	A	C3'-C2'-C1'	8.24	109.54	101.30
87	A8	152	U	N1-C1'-C2'	8.24	124.36	112.00
85	A5	1835	G	P-O3'-C3'	8.23	132.55	120.20
85	A5	1990	A	O4'-C1'-C2'	-8.23	99.36	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	5033	G	N9-C1'-C2'	8.23	124.35	112.00
85	A5	4752	U	O4'-C1'-N1	8.23	120.55	108.20
85	A5	231	U	O4'-C1'-C2'	-8.23	99.37	107.60
85	A5	1928	C	O4'-C1'-C2'	-8.23	97.57	105.80
36	B2	1303	C	C3'-C2'-C1'	-8.23	93.07	101.30
74	CC	311	ARG	N-CA-C	8.23	128.32	110.80
17	AV	61	ARG	NE-CZ-NH2	-8.22	111.80	119.20
85	A5	3931	C	N1-C1'-C2'	8.22	124.34	112.00
36	B2	469	A	O4'-C1'-C2'	-8.22	99.38	107.60
60	Cr	91	SER	CA-CB-OG	8.22	127.55	111.10
74	CC	116	ASN	N-CA-C	8.22	128.31	110.80
82	CG	90	GLN	CA-C-N	-8.22	109.44	120.54
82	CG	90	GLN	C-N-CA	-8.22	109.44	120.54
85	A5	964	A	O4'-C1'-C2'	-8.22	99.38	107.60
85	A5	1268	G	C2'-C3'-O3'	8.22	121.83	109.50
85	A5	1339	U	N1-C1'-C2'	8.22	124.33	112.00
36	B2	630	U	O4'-C1'-N1	8.22	120.83	108.50
66	Cd	81	PRO	CA-N-CD	-8.22	100.49	112.00
85	A5	1242	G	C1'-O4'-C4'	8.22	118.12	109.90
2	Ag	14	HIS	CA-C-N	-8.22	108.23	122.36
2	Ag	14	HIS	C-N-CA	-8.22	108.23	122.36
36	B2	844	U	O4'-C1'-C2'	-8.22	99.38	107.60
81	CE	119	GLU	CB-CA-C	8.21	126.77	110.42
85	A5	1167	C	O4'-C1'-C2'	-8.21	99.39	107.60
85	A5	1255	A	C3'-C2'-C1'	8.21	109.71	101.50
85	A5	2101	C	O4'-C1'-C2'	-8.21	99.39	107.60
85	A5	444	G	O3'-P-O5'	-8.21	91.68	104.00
85	A5	437	G	C1'-O4'-C4'	-8.21	101.69	109.90
85	A5	927	G	O4'-C1'-N9	8.21	120.51	108.20
85	A5	2580	U	N1-C1'-C2'	8.21	124.31	112.00
85	A5	2887	U	O4'-C1'-N1	8.21	120.51	108.20
29	AG	161	PRO	CA-N-CD	-8.21	100.51	112.00
36	B2	848	U	N1-C1'-C2'	8.21	124.31	112.00
36	B2	1419	C	O4'-C1'-C2'	-8.21	99.39	107.60
26	AJ	17	ARG	CB-CA-C	-8.20	95.46	110.63
36	B2	913	A	O4'-C1'-C2'	-8.20	97.60	105.80
57	CY	44	VAL	N-CA-C	-8.20	97.52	108.35
85	A5	5026	U	C4'-C3'-O3'	-8.20	100.70	113.00
36	B2	1208	A	O4'-C1'-C2'	-8.20	99.40	107.60
41	CO	89	PRO	CA-N-CD	-8.20	100.52	112.00
85	A5	1652	U	N1-C1'-C2'	8.20	124.30	112.00
36	B2	80	G	C3'-C2'-C1'	8.20	109.50	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1780	G	C1'-O4'-C4'	-8.20	101.70	109.90
85	A5	1988	G	N9-C1'-C2'	8.20	124.30	112.00
86	A7	99	G	N9-C1'-C2'	8.20	124.30	112.00
40	CK	30	PRO	CA-C-O	-8.20	105.68	120.60
36	B2	474	G	N9-C1'-C2'	8.19	124.29	112.00
36	B2	695	C	O3'-P-O5'	8.19	116.29	104.00
36	B2	660	C	N1-C1'-C2'	8.19	124.29	112.00
36	B2	199	C	N1-C1'-C2'	8.19	124.28	112.00
36	B2	1534	C	O4'-C1'-C2'	-8.19	97.61	105.80
81	CE	36	LYS	CA-C-N	8.19	146.65	127.00
81	CE	36	LYS	C-N-CA	8.19	146.65	127.00
56	CX	154	GLY	CA-C-N	8.19	134.41	123.11
56	CX	154	GLY	C-N-CA	8.19	134.41	123.11
74	CC	267	TRP	N-CA-C	-8.19	93.36	110.80
85	A5	2814	C	O4'-C1'-C2'	-8.19	97.61	105.80
85	A5	4051	C	C3'-C2'-C1'	8.19	109.49	101.30
85	A5	4238	G	O4'-C1'-C2'	8.19	115.79	107.60
27	AE	165	GLU	N-CA-C	-8.18	101.95	111.03
36	B2	445	A	N9-C1'-C2'	8.18	124.27	112.00
85	A5	4954	G	N9-C1'-C2'	-8.18	99.73	112.00
86	A7	43	U	P-O3'-C3'	-8.18	107.93	120.20
23	AD	94	ARG	CB-CA-C	-8.18	95.29	110.01
58	CW	71	ARG	CA-C-N	8.18	137.16	121.54
58	CW	71	ARG	C-N-CA	8.18	137.16	121.54
26	AJ	162	ARG	N-CA-C	8.17	128.21	110.80
46	CN	197	THR	CA-C-N	-8.17	109.81	121.50
46	CN	197	THR	C-N-CA	-8.17	109.81	121.50
85	A5	2409	U	C3'-C2'-C1'	8.17	109.47	101.30
23	AD	190	LEU	O-C-N	-8.17	113.51	121.19
36	B2	1791	A	O4'-C1'-C2'	-8.17	99.43	107.60
85	A5	1302	U	C1'-O4'-C4'	-8.17	101.73	109.90
36	B2	296	U	C1'-O4'-C4'	-8.17	101.73	109.90
85	A5	2120	G	C4'-C3'-O3'	-8.17	100.74	113.00
82	CG	58	PRO	CB-CA-C	-8.17	98.08	111.56
85	A5	1296	G	P-O3'-C3'	8.17	132.45	120.20
85	A5	4974	C	N1-C1'-C2'	8.17	124.25	112.00
8	AS	10	GLN	CA-C-N	8.17	137.14	121.54
8	AS	10	GLN	C-N-CA	8.17	137.14	121.54
46	CN	146	PRO	CA-N-CD	-8.17	100.57	112.00
36	B2	64	A	O4'-C1'-N9	8.16	120.45	108.20
36	B2	1679	A	P-O3'-C3'	8.16	132.44	120.20
69	Cg	46	CYS	CA-C-N	-8.16	105.41	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
69	Cg	46	CYS	C-N-CA	-8.16	105.41	121.41
85	A5	4309	G	O4'-C1'-N9	8.16	120.75	108.50
85	A5	2763	U	N1-C1'-C2'	8.16	124.24	112.00
85	A5	4725	C	O4'-C1'-C2'	-8.16	99.44	107.60
36	B2	79	A	O5'-C5'-C4'	8.16	123.94	111.70
36	B2	1286	G	C4'-C3'-O3'	-8.16	97.16	109.40
85	A5	137	G	O4'-C1'-N9	8.16	120.74	108.50
85	A5	2760	G	O3'-P-O5'	8.16	116.24	104.00
86	A7	14	C	C4'-C3'-O3'	-8.16	100.76	113.00
31	AH	39	GLN	CA-C-N	-8.16	109.34	120.44
31	AH	39	GLN	C-N-CA	-8.16	109.34	120.44
40	CK	3	PRO	N-CA-C	8.16	129.27	112.47
63	CB	292	LEU	CB-CA-C	8.16	126.65	110.42
85	A5	1599	A	N9-C1'-C2'	8.16	124.24	112.00
85	A5	3942	A	O4'-C1'-C2'	-8.15	99.45	107.60
36	B2	150	A	O4'-C1'-C2'	-8.15	99.45	107.60
85	A5	322	C	C3'-C2'-C1'	8.15	109.45	101.30
85	A5	2547	G	O4'-C1'-C2'	8.15	115.75	107.60
86	A7	74	A	C1'-O4'-C4'	8.15	117.85	109.70
82	CG	241	VAL	N-CA-C	8.15	126.29	109.34
1	Az	72	SER	N-CA-C	8.14	122.17	108.90
27	AE	151	ASP	CA-C-N	8.14	130.01	119.84
27	AE	151	ASP	C-N-CA	8.14	130.01	119.84
36	B2	1783	C	O4'-C1'-C2'	-8.14	97.66	105.80
85	A5	1359	G	N9-C1'-C2'	8.14	124.21	112.00
85	A5	1435	G	O4'-C1'-N9	8.14	120.71	108.50
36	B2	1010	G	O4'-C1'-N9	8.13	120.70	108.50
85	A5	423	G	O4'-C1'-C2'	8.13	115.73	107.60
85	A5	1213	G	O4'-C1'-C2'	8.13	115.73	107.60
85	A5	5026	U	O3'-P-O5'	-8.14	91.80	104.00
86	A7	99	G	C1'-O4'-C4'	-8.13	101.77	109.90
13	AP	50	ARG	CA-C-N	8.13	131.01	120.44
13	AP	50	ARG	C-N-CA	8.13	131.01	120.44
59	CZ	78	ASN	CA-C-N	-8.13	109.91	122.60
59	CZ	78	ASN	C-N-CA	-8.13	109.91	122.60
85	A5	1358	G	O3'-P-O5'	8.13	116.20	104.00
85	A5	2526	C	O4'-C1'-C2'	-8.13	99.47	107.60
85	A5	4094	G	O4'-C1'-N9	8.13	120.70	108.50
37	BC	18	G	P-O3'-C3'	8.13	132.39	120.20
39	Cq	6	ARG	CA-C-N	8.13	137.06	121.54
39	Cq	6	ARG	C-N-CA	8.13	137.06	121.54
85	A5	90	G	N9-C1'-C2'	8.13	124.19	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4488	A	O4'-C1'-N9	8.13	120.39	108.20
1	Az	326	GLU	N-CA-C	-8.13	101.78	112.34
85	A5	2519	U	O4'-C1'-N1	8.13	120.39	108.20
33	AI	129	LEU	CA-C-O	-8.12	112.29	120.82
36	B2	645	C	O4'-C1'-C2'	-8.12	99.47	107.60
85	A5	1296	G	P-O5'-C5'	8.12	133.09	120.90
85	A5	1849	U	O4'-C1'-C2'	-8.12	99.48	107.60
85	A5	2001	G	P-O3'-C3'	8.12	132.39	120.20
85	A5	1365	C	O4'-C1'-C2'	-8.12	99.48	107.60
85	A5	2693	G	N9-C1'-C2'	8.12	124.19	112.00
85	A5	1753	G	C4'-C3'-O3'	8.12	125.18	113.00
36	B2	1529	C	N1-C1'-C2'	8.12	124.18	112.00
85	A5	668	C	N1-C1'-C2'	8.12	124.18	112.00
85	A5	926	G	P-O3'-C3'	8.12	132.38	120.20
85	A5	1377	G	O4'-C1'-C2'	-8.12	99.48	107.60
85	A5	3697	U	P-O3'-C3'	8.12	132.38	120.20
14	AT	45	LEU	O-C-N	-8.12	113.77	123.10
85	A5	1277	G	O4'-C1'-C2'	-8.12	99.48	107.60
85	A5	1972	G	P-O5'-C5'	8.12	133.07	120.90
85	A5	5007	A	O4'-C1'-C2'	-8.12	99.48	107.60
36	B2	96	C	N1-C1'-C2'	8.11	124.17	112.00
36	B2	1259	A	C3'-C2'-C1'	-8.11	93.19	101.30
36	B2	911	C	N1-C1'-C2'	8.11	124.16	112.00
63	CB	330	PHE	CA-CB-CG	-8.11	105.69	113.80
74	CC	35	ASP	N-CA-C	8.11	128.07	110.80
36	B2	1683	C	N1-C1'-C2'	8.11	124.16	112.00
59	CZ	47	ASP	N-CA-C	8.11	119.89	111.14
85	A5	2032	U	N1-C1'-C2'	8.11	124.16	112.00
25	Af	148	TYR	CA-CB-CG	-8.10	99.31	113.90
42	CL	52	SER	CA-C-N	8.10	134.59	121.87
42	CL	52	SER	C-N-CA	8.10	134.59	121.87
85	A5	1578	U	C5'-C4'-C3'	-8.10	103.85	116.00
85	A5	3799	A	N9-C1'-C2'	8.10	124.16	112.00
85	A5	4936	G	C5'-C4'-O4'	-8.10	97.65	109.80
36	B2	636	C	O4'-C1'-C2'	-8.10	99.50	107.60
63	CB	32	PHE	O-C-N	8.10	128.15	121.83
85	A5	1769	G	N9-C1'-C2'	8.10	124.15	112.00
85	A5	308	G	O4'-C1'-C2'	8.10	113.90	105.80
85	A5	1302	U	P-O3'-C3'	8.10	132.35	120.20
36	B2	622	C	N1-C1'-C2'	8.10	124.15	112.00
36	B2	629	A	O4'-C1'-C2'	-8.10	97.70	105.80
85	A5	424	U	O4'-C1'-N1	8.10	120.64	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	AS	92	ASP	N-CA-C	8.09	128.04	110.80
36	B2	898	U	P-O3'-C3'	8.09	132.34	120.20
42	CL	158	ARG	N-CA-C	-8.09	96.05	109.80
85	A5	2136	G	O3'-P-O5'	8.09	116.14	104.00
86	A7	74	A	N9-C1'-C2'	-8.09	101.86	114.00
4	AK	90	VAL	CA-C-N	8.09	129.95	119.84
4	AK	90	VAL	C-N-CA	8.09	129.95	119.84
36	B2	737	G	O4'-C1'-C2'	-8.09	99.51	107.60
81	CE	60	SER	CB-CA-C	-8.09	94.74	110.10
85	A5	2079	G	N9-C1'-C2'	8.09	124.13	112.00
85	A5	2905	C	O4'-C1'-C2'	-8.09	99.52	107.60
85	A5	361	C	O4'-C1'-C2'	-8.08	97.72	105.80
85	A5	2041	A	O4'-C1'-N9	8.08	120.62	108.50
51	CA	64	ARG	N-CA-C	-8.08	95.24	108.41
85	A5	1908	A	O4'-C1'-C2'	-8.08	99.52	107.60
39	Cq	55	MET	CA-C-N	8.08	137.25	121.41
39	Cq	55	MET	C-N-CA	8.08	137.25	121.41
74	CC	117	THR	N-CA-CB	8.08	122.00	110.12
26	AJ	40	LYS	N-CA-C	-8.08	102.48	111.28
36	B2	201	C	O4'-C1'-C2'	-8.08	99.52	107.60
85	A5	1337	A	P-O3'-C3'	-8.08	108.09	120.20
85	A5	2761	U	N1-C1'-C2'	8.08	124.12	112.00
81	CE	29	LYS	CA-C-N	8.07	137.24	121.41
81	CE	29	LYS	C-N-CA	8.07	137.24	121.41
36	B2	147	A	N9-C1'-C2'	-8.07	101.90	114.00
85	A5	451	C	P-O3'-C3'	8.07	132.30	120.20
85	A5	1363	C	C3'-C2'-C1'	8.06	109.36	101.30
74	CC	60	HIS	N-CA-C	8.06	127.97	110.80
74	CC	85	HIS	N-CA-CB	-8.06	99.65	112.63
85	A5	2410	C	O4'-C1'-C2'	-8.06	99.54	107.60
36	B2	841	G	O4'-C4'-C3'	-8.06	95.94	104.00
85	A5	2736	G	O4'-C1'-C2'	8.06	115.66	107.60
85	A5	4083	U	C4'-C3'-O3'	-8.06	100.91	113.00
26	AJ	166	GLY	N-CA-C	-8.05	104.21	115.32
36	B2	174	C	O4'-C1'-C2'	-8.05	99.55	107.60
85	A5	1824	G	P-O3'-C3'	-8.05	108.12	120.20
85	A5	4665	A	O3'-P-O5'	-8.06	91.92	104.00
22	Ac	32	VAL	N-CA-C	8.05	119.50	107.75
85	A5	4084	G	C4'-C3'-O3'	-8.05	100.92	113.00
85	A5	958	G	O4'-C1'-C2'	-8.05	99.55	107.60
34	AQ	46	THR	N-CA-C	-8.05	101.45	111.11
36	B2	551	U	N1-C1'-C2'	8.05	124.07	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	CK	85	LEU	CA-C-N	8.05	136.91	121.54
40	CK	85	LEU	C-N-CA	8.05	136.91	121.54
61	Ch	78	TYR	CB-CA-C	8.05	126.43	110.42
87	A8	150	C	O4'-C1'-C2'	-8.05	99.55	107.60
64	CF	32	ARG	CB-CA-C	-8.04	97.17	110.85
85	A5	136	C	P-O3'-C3'	8.04	132.27	120.20
85	A5	1680	G	N9-C1'-C2'	8.04	124.06	112.00
36	B2	1195	A	O4'-C4'-C3'	-8.04	95.96	104.00
46	CN	79	ALA	CB-CA-C	8.04	126.42	110.42
85	A5	2627	C	O3'-P-O5'	8.04	116.06	104.00
87	A8	129	C	P-O5'-C5'	8.04	132.96	120.90
85	A5	3779	A	C4'-C3'-O3'	-8.04	100.94	113.00
85	A5	4411	G	C3'-C2'-C1'	8.04	109.34	101.30
85	A5	3892	U	O3'-P-O5'	-8.03	91.95	104.00
85	A5	2439	G	C1'-O4'-C4'	-8.03	101.87	109.90
36	B2	1214	A	P-O3'-C3'	8.03	132.25	120.20
26	AJ	93	LYS	O-C-N	-8.03	112.75	123.19
85	A5	2409	U	N1-C1'-C2'	8.03	124.04	112.00
85	A5	1868	A	O4'-C1'-C2'	-8.03	99.57	107.60
36	B2	1671	G	N9-C1'-C2'	8.02	124.04	112.00
85	A5	2112	G	O4'-C1'-N9	8.02	120.54	108.50
4	AK	55	ARG	CB-CG-CD	8.02	129.75	111.30
22	Ac	8	PRO	CA-C-N	-8.02	111.79	122.94
22	Ac	8	PRO	C-N-CA	-8.02	111.79	122.94
42	CL	164	GLU	N-CA-C	8.02	121.81	108.73
73	Cl	37	TYR	CA-C-N	-8.02	106.22	121.54
73	Cl	37	TYR	C-N-CA	-8.02	106.22	121.54
81	CE	43	HIS	N-CA-C	8.02	121.35	109.24
85	A5	3834	C	N1-C1'-C2'	8.02	124.03	112.00
85	A5	1478	C	N1-C1'-C2'	8.02	124.03	112.00
85	A5	2115	G	O4'-C1'-C2'	-8.02	99.58	107.60
29	AG	38	ALA	N-CA-C	8.02	119.80	111.14
47	CI	212	LEU	CA-C-O	-8.02	112.12	121.82
53	CT	24	VAL	N-CA-C	8.02	121.63	109.20
85	A5	2301	G	N9-C1'-C2'	8.02	124.03	112.00
85	A5	4528	G	O4'-C1'-C2'	-8.02	99.58	107.60
64	CF	28	LEU	N-CA-C	-8.01	102.24	110.97
17	AV	24	ILE	CB-CA-C	-8.01	100.98	110.91
30	AF	46	ALA	CA-C-N	-8.01	106.24	121.54
30	AF	46	ALA	C-N-CA	-8.01	106.24	121.54
36	B2	1720	U	C1'-O4'-C4'	8.01	117.91	109.90
44	CM	3	PHE	O-C-N	-8.01	111.94	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	187	U	P-O3'-C3'	8.01	132.22	120.20
85	A5	966	A	N9-C1'-C2'	8.01	124.02	112.00
85	A5	4738	C	O4'-C1'-C2'	-8.01	99.59	107.60
85	A5	694	C	P-O5'-C5'	8.01	132.91	120.90
36	B2	1453	C	N1-C1'-C2'	8.01	124.01	112.00
45	Ca	67	GLN	N-CA-C	-8.01	102.50	111.71
59	CZ	64	LYS	N-CA-C	8.01	120.09	111.36
60	Cr	80	THR	N-CA-C	-8.01	103.51	113.20
36	B2	305	U	P-O5'-C5'	8.00	132.90	120.90
85	A5	2621	A	O4'-C1'-C2'	-8.00	99.60	107.60
59	CZ	78	ASN	N-CA-C	-8.00	102.51	111.71
85	A5	121	A	N9-C1'-C2'	8.00	124.00	112.00
1	Az	806	GLY	CA-C-N	-8.00	106.26	121.54
1	Az	806	GLY	C-N-CA	-8.00	106.26	121.54
36	B2	170	A	C3'-C2'-C1'	-7.99	93.31	101.30
81	CE	242	ILE	CA-C-N	7.99	130.99	120.28
81	CE	242	ILE	C-N-CA	7.99	130.99	120.28
85	A5	1393	G	O4'-C1'-C2'	-7.99	99.61	107.60
38	Cz	99	LEU	CA-C-N	-7.99	107.59	121.97
38	Cz	99	LEU	C-N-CA	-7.99	107.59	121.97
58	CW	22	ALA	CA-C-N	-7.99	106.43	120.97
58	CW	22	ALA	C-N-CA	-7.99	106.43	120.97
87	A8	112	G	O4'-C1'-C2'	7.99	115.59	107.60
34	AQ	146	ARG	NE-CZ-NH2	7.99	126.39	119.20
36	B2	745	C	O4'-C1'-C2'	-7.99	99.61	107.60
85	A5	1987	C	N1-C1'-C2'	7.99	123.98	112.00
85	A5	4169	G	N9-C1'-C2'	7.99	123.98	112.00
7	AM	116	LYS	N-CA-C	7.99	127.81	110.80
42	CL	152	GLY	CA-C-N	7.99	129.82	119.84
42	CL	152	GLY	C-N-CA	7.99	129.82	119.84
85	A5	4140	C	O4'-C1'-C2'	-7.99	99.61	107.60
85	A5	4713	G	P-O3'-C3'	7.99	132.18	120.20
85	A5	4325	A	P-O3'-C3'	7.98	132.17	120.20
25	Af	134	SER	O-C-N	7.98	132.51	122.93
40	CK	85	LEU	CD1-CG-CD2	7.98	128.36	110.80
44	CM	19	PRO	CA-N-CD	-7.98	100.83	112.00
60	Cr	108	MET	CG-SD-CE	-7.98	83.34	100.90
85	A5	1686	C	N1-C1'-C2'	7.98	123.97	112.00
23	AD	159	HIS	N-CA-C	7.98	120.06	111.36
36	B2	1463	U	P-O5'-C5'	7.98	132.87	120.90
16	AA	109	THR	N-CA-C	-7.97	99.78	110.55
36	B2	1007	C	N1-C1'-C2'	7.97	123.96	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3616	U	P-O3'-C3'	7.97	132.16	120.20
48	CD	188	LYS	N-CA-C	-7.97	98.22	110.10
85	A5	1432	G	P-O3'-C3'	7.97	132.16	120.20
85	A5	4945	G	C1'-O4'-C4'	-7.97	101.93	109.90
12	AR	1	MET	O-C-N	7.97	135.75	123.00
85	A5	2054	U	O4'-C1'-C2'	-7.97	97.83	105.80
36	B2	841	G	P-O5'-C5'	7.96	132.84	120.90
74	CC	331	TYR	N-CA-C	-7.96	103.02	112.89
85	A5	2263	A	P-O3'-C3'	7.96	132.14	120.20
85	A5	2397	G	P-O3'-C3'	7.96	132.14	120.20
85	A5	1314	C	O4'-C1'-C2'	-7.96	97.84	105.80
85	A5	2875	C	O4'-C1'-C2'	-7.96	97.84	105.80
85	A5	2086	G	O4'-C1'-C2'	7.96	115.56	107.60
85	A5	2102	G	C5'-C4'-C3'	7.96	127.94	116.00
36	B2	1682	C	O4'-C1'-C2'	-7.95	97.85	105.80
40	CK	130	LYS	CA-CB-CG	7.95	130.01	114.10
85	A5	980	U	P-O3'-C3'	7.95	132.13	120.20
1	Az	191	THR	CA-C-N	-7.95	110.20	122.60
1	Az	191	THR	C-N-CA	-7.95	110.20	122.60
34	AQ	7	LEU	N-CA-C	7.95	119.11	108.38
49	CQ	92	VAL	N-CA-C	7.95	118.08	106.55
82	CG	179	VAL	CB-CA-C	-7.95	102.11	110.53
85	A5	1031	C	P-O3'-C3'	7.95	132.12	120.20
86	A7	61	G	C4'-C3'-O3'	-7.95	101.08	113.00
36	B2	1412	C	C4'-C3'-O3'	7.95	124.92	113.00
36	B2	1420	G	C1'-O4'-C4'	-7.95	101.95	109.90
85	A5	1237	C	P-O5'-C5'	7.95	132.82	120.90
85	A5	2937	G	O3'-P-O5'	7.95	115.92	104.00
8	AS	93	GLY	CA-C-N	7.94	132.10	120.90
8	AS	93	GLY	C-N-CA	7.94	132.10	120.90
36	B2	1223	A	O4'-C1'-C2'	-7.94	99.66	107.60
45	Ca	45	PHE	N-CA-C	7.94	119.72	111.14
47	CI	194	GLY	N-CA-C	7.94	132.00	113.18
27	AE	103	TYR	N-CA-C	7.94	122.03	110.28
37	BC	53	A	O4'-C1'-C2'	-7.94	99.66	107.60
36	B2	1106	C	O4'-C1'-C2'	-7.94	99.66	107.60
36	B2	1782	G	C5'-C4'-C3'	7.94	127.91	116.00
12	AR	1	MET	CB-CA-C	7.94	125.18	110.10
69	Cg	46	CYS	N-CA-CB	-7.94	98.16	110.06
85	A5	976	G	O4'-C4'-C3'	-7.94	96.06	104.00
81	CE	239	LYS	CA-CB-CG	7.93	129.97	114.10
85	A5	5064	G	N9-C1'-C2'	7.93	123.90	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1363	C	O4'-C1'-C2'	-7.93	99.67	107.60
85	A5	2794	C	O4'-C1'-C2'	-7.93	97.87	105.80
28	AC	127	PHE	CA-CB-CG	-7.93	105.87	113.80
36	B2	536	A	C2'-C3'-O3'	-7.93	101.81	113.70
86	A7	41	G	O4'-C1'-C2'	7.93	113.73	105.80
85	A5	2351	C	N1-C1'-C2'	7.92	123.89	112.00
87	A8	17	A	O4'-C1'-C2'	-7.92	99.68	107.60
36	B2	954	U	C4'-C3'-O3'	7.92	121.28	109.40
13	AP	71	GLU	CA-C-N	7.92	134.59	121.92
13	AP	71	GLU	C-N-CA	7.92	134.59	121.92
36	B2	640	A	N9-C1'-C2'	7.92	123.88	112.00
60	Cr	66	ARG	CB-CA-C	-7.92	94.66	110.42
85	A5	1880	G	C1'-O4'-C4'	-7.92	101.98	109.90
56	CX	118	ASP	CA-C-N	7.92	133.99	122.99
56	CX	118	ASP	C-N-CA	7.92	133.99	122.99
85	A5	449	C	N1-C1'-C2'	7.91	123.87	112.00
85	A5	1447	C	O4'-C1'-C2'	-7.91	99.69	107.60
85	A5	2629	C	O4'-C1'-C2'	-7.91	99.69	107.60
23	AD	144	GLY	CA-C-N	7.91	130.88	120.28
23	AD	144	GLY	C-N-CA	7.91	130.88	120.28
40	CK	91	ASP	N-CA-C	7.91	124.72	114.75
82	CG	129	PRO	CA-N-CD	-7.91	100.93	112.00
85	A5	1313	C	C3'-C2'-C1'	7.91	109.41	101.50
85	A5	2887	U	N1-C1'-C2'	-7.91	102.13	114.00
85	A5	3680	U	N1-C1'-C2'	7.91	123.87	112.00
85	A5	2562	G	O4'-C1'-N9	7.91	120.36	108.50
85	A5	4928	C	O4'-C1'-C2'	-7.91	99.69	107.60
36	B2	1267	C	N1-C1'-C2'	7.91	123.86	112.00
36	B2	1668	U	O4'-C1'-N1	7.91	120.36	108.50
49	CQ	1	MET	CB-CA-C	7.91	125.12	110.10
85	A5	1537	A	O4'-C1'-C2'	-7.91	99.69	107.60
85	A5	4057	C	N1-C1'-C2'	7.91	123.86	112.00
36	B2	304	C	O3'-P-O5'	7.90	115.85	104.00
11	AL	151	THR	CA-C-N	7.90	136.63	121.54
11	AL	151	THR	C-N-CA	7.90	136.63	121.54
28	AC	232	THR	CB-CA-C	7.90	120.94	111.22
36	B2	1417	C	C3'-C2'-C1'	7.90	109.20	101.30
37	BC	11	C	O4'-C1'-C2'	-7.90	99.70	107.60
85	A5	1211	G	O4'-C1'-N9	7.90	120.34	108.50
36	B2	1722	G	P-O5'-C5'	7.89	132.74	120.90
85	A5	1639	U	P-O3'-C3'	7.89	132.04	120.20
36	B2	798	G	P-O5'-C5'	7.89	132.74	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BC	20	A	O4'-C1'-N9	7.89	120.04	108.20
87	A8	103	A	O4'-C1'-C2'	-7.89	99.71	107.60
36	B2	190	G	C1'-O4'-C4'	-7.89	102.01	109.90
36	B2	76	U	P-O5'-C5'	7.89	132.73	120.90
36	B2	60	A	O4'-C1'-N9	7.89	120.33	108.50
36	B2	434	G	O3'-P-O5'	-7.89	92.17	104.00
85	A5	4116	C	O4'-C1'-C2'	-7.89	97.91	105.80
36	B2	1429	G	O3'-P-O5'	-7.89	92.17	104.00
42	CL	160	VAL	CA-C-N	7.89	136.60	121.54
42	CL	160	VAL	C-N-CA	7.89	136.60	121.54
60	Cr	67	ARG	CB-CG-CD	7.89	129.44	111.30
3	AU	70	CYS	O-C-N	-7.88	112.10	122.59
22	Ac	18	LEU	N-CA-C	7.88	119.95	111.36
40	CK	99	LYS	CA-CB-CG	7.88	129.87	114.10
85	A5	1975	G	P-O3'-C3'	7.88	132.03	120.20
85	A5	2632	U	N1-C1'-C2'	7.88	123.83	112.00
85	A5	3782	C	N1-C1'-C2'	7.88	123.82	112.00
85	A5	4626	A	C1'-O4'-C4'	-7.88	101.82	109.70
36	B2	977	C	O4'-C1'-C2'	-7.88	99.72	107.60
81	CE	219	LYS	CA-CB-CG	7.88	129.86	114.10
85	A5	3731	C	O4'-C1'-C2'	-7.88	99.72	107.60
36	B2	842	C	C3'-C2'-C1'	7.88	109.18	101.30
85	A5	4085	A	O3'-P-O5'	-7.88	92.19	104.00
36	B2	1014	G	C1'-O4'-C4'	-7.88	102.03	109.90
25	Af	88	PRO	CA-C-N	-7.87	109.79	121.05
25	Af	88	PRO	C-N-CA	-7.87	109.79	121.05
1	Az	669	VAL	CB-CA-C	7.87	122.21	112.45
36	B2	21	U	O4'-C1'-C2'	-7.87	99.73	107.60
36	B2	636	C	C3'-C2'-C1'	7.87	109.17	101.30
26	AJ	144	ILE	CA-CB-CG1	-7.87	97.02	110.40
36	B2	1536	G	C4'-C3'-O3'	-7.87	101.20	113.00
85	A5	342	G	O4'-C1'-N9	7.87	120.30	108.50
85	A5	2124	G	C5'-C4'-C3'	-7.87	104.20	116.00
85	A5	4941	G	C4'-C3'-O3'	7.87	121.20	109.40
85	A5	724	C	P-O3'-C3'	7.87	132.00	120.20
85	A5	2111	G	C3'-C2'-C1'	7.86	109.16	101.30
85	A5	4627	U	N1-C1'-C2'	7.86	123.79	112.00
13	AP	49	LEU	CA-C-N	-7.86	106.52	121.54
13	AP	49	LEU	C-N-CA	-7.86	106.52	121.54
40	CK	101	SER	N-CA-C	7.86	119.48	111.07
81	CE	101	ASN	CB-CA-C	-7.86	94.78	110.42
85	A5	4295	U	O4'-C1'-C2'	-7.86	99.74	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4938	A	O3'-P-O5'	7.86	115.79	104.00
36	B2	649	U	N1-C1'-C2'	7.86	123.79	112.00
36	B2	226	A	O4'-C1'-C2'	-7.86	99.74	107.60
85	A5	1224	G	P-O3'-C3'	7.86	131.99	120.20
36	B2	1752	C	N1-C1'-C2'	7.86	123.78	112.00
73	C1	37	TYR	N-CA-C	7.86	127.53	110.80
85	A5	2390	G	C1'-O4'-C4'	-7.85	102.05	109.90
85	A5	2733	C	N1-C1'-C2'	7.85	123.78	112.00
36	B2	204	G	O4'-C1'-C2'	-7.85	99.75	107.60
36	B2	616	A	N9-C1'-C2'	7.85	123.77	112.00
36	B2	1418	C	C1'-C2'-O2'	7.85	123.57	111.80
36	B2	1359	U	O4'-C1'-C2'	-7.85	99.75	107.60
64	CF	52	GLU	CB-CA-C	7.84	124.19	110.85
85	A5	2876	G	O4'-C1'-N9	7.84	120.27	108.50
85	A5	4940	C	P-O3'-C3'	-7.84	108.44	120.20
36	B2	308	G	O4'-C1'-C2'	7.84	113.64	105.80
85	A5	687	U	O4'-C1'-N1	7.84	120.26	108.50
85	A5	2299	G	O3'-P-O5'	7.84	115.76	104.00
26	AJ	164	PRO	N-CA-CB	-7.84	94.92	103.39
43	CV	75	LYS	N-CA-C	7.84	127.50	110.80
85	A5	150	U	O5'-C5'-C4'	-7.84	99.94	111.70
85	A5	4281	A	O4'-C1'-N9	7.84	119.96	108.20
36	B2	1612	G	O4'-C1'-N9	7.84	120.25	108.50
85	A5	1853	G	O4'-C1'-N9	7.84	119.96	108.20
85	A5	1779	U	C4'-C3'-O3'	-7.83	101.25	113.00
87	A8	153	C	N1-C1'-C2'	7.83	123.75	112.00
36	B2	81	U	N1-C1'-C2'	7.83	123.75	112.00
47	CI	100	ASN	CA-C-N	-7.83	106.58	121.54
47	CI	100	ASN	C-N-CA	-7.83	106.58	121.54
60	Cr	73	PRO	CA-N-CD	-7.83	101.04	112.00
85	A5	673	C	N1-C1'-C2'	7.83	123.75	112.00
85	A5	944	A	O4'-C1'-C2'	-7.83	99.77	107.60
85	A5	4257	A	O4'-C1'-C2'	-7.83	97.97	105.80
85	A5	224	U	O4'-C1'-N1	7.83	119.94	108.20
85	A5	902	C	O4'-C1'-C2'	-7.83	99.77	107.60
85	A5	1410	U	O4'-C1'-C2'	-7.83	99.77	107.60
85	A5	4884	G	P-O5'-C5'	7.83	132.64	120.90
2	Ag	47	ARG	N-CA-C	-7.83	94.13	110.80
42	CL	48	PRO	CB-CA-C	-7.83	99.82	110.85
44	CM	65	PRO	CA-C-N	7.83	133.75	122.40
44	CM	65	PRO	C-N-CA	7.83	133.75	122.40
63	CB	296	GLY	N-CA-C	-7.83	100.58	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4992	G	N9-C1'-C2'	7.82	123.73	112.00
36	B2	25	A	N9-C1'-C2'	-7.82	102.27	114.00
36	B2	753	C	P-O3'-C3'	7.82	131.93	120.20
82	CG	56	LYS	O-C-N	7.82	133.41	123.01
85	A5	1720	C	O5'-C5'-C4'	7.82	123.23	111.50
85	A5	1469	C	O4'-C1'-C2'	-7.82	99.78	107.60
59	CZ	54	THR	CA-C-O	7.82	129.06	120.77
85	A5	3945	A	C1'-O4'-C4'	7.82	117.72	109.90
86	A7	49	A	C5'-C4'-C3'	7.82	127.72	116.00
15	AB	146	ARG	CA-C-N	-7.82	109.99	120.54
15	AB	146	ARG	C-N-CA	-7.82	109.99	120.54
85	A5	4900	C	P-O3'-C3'	7.82	131.92	120.20
36	B2	584	A	P-O5'-C5'	7.81	132.62	120.90
85	A5	2570	U	P-O3'-C3'	7.81	131.92	120.20
54	CP	10	ASN	C-N-CD	-7.81	92.97	125.00
70	Ci	65	LYS	CA-C-N	-7.81	109.81	120.44
70	Ci	65	LYS	C-N-CA	-7.81	109.81	120.44
85	A5	967	C	O4'-C1'-C2'	-7.81	99.79	107.60
87	A8	108	A	O4'-C1'-C2'	-7.81	99.79	107.60
5	AO	143	LYS	N-CA-C	7.81	121.84	110.28
85	A5	348	G	O4'-C1'-C2'	-7.81	97.99	105.80
36	B2	1548	G	O4'-C1'-N9	7.81	120.21	108.50
81	CE	44	CYS	N-CA-C	7.81	127.43	110.80
85	A5	1419	G	N9-C1'-C2'	7.81	123.71	112.00
85	A5	4953	G	C1'-O4'-C4'	-7.81	102.09	109.90
85	A5	4387	C	N1-C1'-C2'	7.81	123.71	112.00
85	A5	4387	C	O4'-C1'-C2'	-7.81	99.79	107.60
36	B2	102	A	P-O3'-C3'	7.80	131.91	120.20
85	A5	2252	G	C2'-C3'-O3'	-7.80	97.79	109.50
85	A5	3797	C	O4'-C1'-C2'	-7.80	99.80	107.60
55	CU	39	PHE	N-CA-C	7.80	120.47	111.11
69	Cg	38	VAL	CA-C-N	-7.80	112.04	122.03
69	Cg	38	VAL	C-N-CA	-7.80	112.04	122.03
85	A5	4053	A	N9-C1'-C2'	7.80	123.70	112.00
7	AM	70	ALA	N-CA-C	7.80	119.42	111.07
36	B2	326	C	O4'-C1'-C2'	-7.80	98.00	105.80
85	A5	4444	C	C3'-C2'-C1'	7.80	109.10	101.30
25	Af	124	ASP	CA-C-N	-7.80	110.27	122.67
25	Af	124	ASP	C-N-CA	-7.80	110.27	122.67
68	Cf	105	LEU	CA-C-N	-7.80	112.73	123.96
68	Cf	105	LEU	C-N-CA	-7.80	112.73	123.96
36	B2	790	C	O4'-C1'-C2'	-7.79	99.81	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1084	A	C2'-C3'-O3'	-7.79	102.01	113.70
85	A5	4173	G	O4'-C1'-C2'	-7.79	99.81	107.60
36	B2	1552	G	O4'-C1'-C2'	-7.79	99.81	107.60
36	B2	1659	U	O3'-P-O5'	7.79	115.69	104.00
44	CM	2	VAL	CA-C-N	7.79	136.42	121.54
44	CM	2	VAL	C-N-CA	7.79	136.42	121.54
19	AZ	107	VAL	CA-C-N	7.79	135.99	121.97
19	AZ	107	VAL	C-N-CA	7.79	135.99	121.97
36	B2	662	G	N9-C1'-C2'	7.79	125.69	114.00
36	B2	1032	C	N1-C1'-C2'	7.79	123.69	112.00
63	CB	118	PHE	CA-CB-CG	-7.79	106.01	113.80
36	B2	227	U	N1-C1'-C2'	-7.79	102.32	114.00
36	B2	1703	C	O4'-C1'-C2'	-7.79	99.81	107.60
64	CF	22	ARG	CA-C-N	7.79	136.41	121.54
64	CF	22	ARG	C-N-CA	7.79	136.41	121.54
36	B2	65	C	P-O3'-C3'	7.79	131.88	120.20
36	B2	1095	C	N1-C1'-C2'	7.79	123.68	112.00
85	A5	2492	C	O4'-C1'-C2'	-7.79	99.81	107.60
86	A7	84	U	N1-C1'-C2'	-7.79	102.32	114.00
85	A5	4751	G	C1'-O4'-C4'	-7.79	102.11	109.90
36	B2	207	G	O4'-C1'-C2'	-7.78	99.82	107.60
36	B2	984	C	N1-C1'-C2'	7.78	123.68	112.00
85	A5	1524	A	O4'-C1'-N9	7.78	120.17	108.50
11	AL	157	LYS	N-CA-C	7.78	121.91	108.76
36	B2	1748	G	O5'-C5'-C4'	7.78	123.17	111.50
37	BC	17	G	C2'-C3'-O3'	-7.78	97.83	109.50
85	A5	1724	G	P-O3'-C3'	7.78	131.87	120.20
85	A5	4143	G	P-O5'-C5'	7.78	132.57	120.90
81	CE	119	GLU	CA-C-N	-7.78	109.25	120.29
81	CE	119	GLU	C-N-CA	-7.78	109.25	120.29
36	B2	1091	C	O4'-C1'-C2'	-7.78	99.82	107.60
49	CQ	3	VAL	N-CA-C	-7.78	96.19	108.86
85	A5	2765	A	P-O5'-C5'	7.78	132.56	120.90
85	A5	4241	C	N1-C1'-C2'	7.78	123.66	112.00
85	A5	1170	G	O4'-C1'-N9	7.77	120.16	108.50
85	A5	4950	U	P-O5'-C5'	7.77	132.56	120.90
36	B2	1777	G	C3'-C2'-C1'	-7.77	93.53	101.30
85	A5	4409	C	O4'-C1'-C2'	-7.77	99.83	107.60
29	AG	155	GLN	O-C-N	-7.77	110.53	121.72
85	A5	1582	U	O4'-C1'-C2'	-7.77	99.83	107.60
85	A5	4144	C	O4'-C4'-C3'	-7.77	98.33	106.10
86	A7	29	C	O4'-C1'-C2'	-7.77	99.83	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	AC	232	THR	N-CA-C	7.77	123.28	112.72
36	B2	1675	A	O4'-C1'-N9	7.77	120.15	108.50
85	A5	2672	C	P-O5'-C5'	-7.77	109.25	120.90
36	B2	3	C	O4'-C1'-C2'	-7.77	98.03	105.80
85	A5	392	U	O4'-C1'-N1	7.77	120.15	108.50
28	AC	172	ASN	CA-C-O	7.76	129.23	120.84
36	B2	1785	C	O4'-C1'-C2'	-7.76	98.04	105.80
48	CD	268	ARG	N-CA-C	-7.76	92.65	109.81
56	CX	48	ARG	N-CA-C	7.76	119.50	109.64
85	A5	948	C	N1-C1'-C2'	7.76	123.65	112.00
85	A5	1301	C	P-O3'-C3'	7.76	131.85	120.20
85	A5	4658	G	O4'-C1'-C2'	7.76	115.36	107.60
36	B2	551	U	P-O5'-C5'	7.76	132.54	120.90
49	CQ	2	GLY	CA-C-N	7.76	135.03	122.69
49	CQ	2	GLY	C-N-CA	7.76	135.03	122.69
85	A5	11	G	N9-C1'-C2'	7.76	123.64	112.00
85	A5	1370	G	C1'-O4'-C4'	-7.76	102.14	109.90
85	A5	1899	G	N9-C1'-C2'	7.76	123.64	112.00
86	A7	7	G	O4'-C1'-C2'	-7.76	99.84	107.60
81	CE	27	VAL	CA-C-N	7.76	135.67	121.70
81	CE	27	VAL	C-N-CA	7.76	135.67	121.70
85	A5	2084	C	C3'-C2'-C1'	7.76	109.06	101.30
28	AC	164	PRO	CB-CA-C	-7.76	101.45	111.46
36	B2	126	G	O3'-P-O5'	7.76	115.64	104.00
85	A5	462	G	O4'-C1'-C2'	7.76	115.36	107.60
87	A8	69	U	N1-C1'-C2'	7.76	123.64	112.00
61	Ch	37	THR	O-C-N	7.76	132.91	122.59
85	A5	1575	A	N9-C1'-C2'	7.76	123.64	112.00
85	A5	2380	G	O4'-C1'-C2'	7.76	115.36	107.60
44	CM	4	ARG	N-CA-CB	7.76	123.60	110.49
85	A5	80	C	C1'-O4'-C4'	-7.76	102.14	109.90
49	CQ	8	ASN	N-CA-C	-7.75	103.71	113.01
12	AR	88	VAL	CA-C-N	-7.75	106.73	121.54
12	AR	88	VAL	C-N-CA	-7.75	106.73	121.54
36	B2	531	A	O4'-C4'-C3'	-7.75	96.25	104.00
85	A5	4213	A	N9-C1'-C2'	7.75	123.63	112.00
85	A5	4619	U	N1-C1'-C2'	7.75	123.62	112.00
25	Af	88	PRO	N-CA-C	-7.75	96.51	112.47
36	B2	1564	C	N1-C1'-C2'	7.75	123.62	112.00
63	CB	76	VAL	CB-CA-C	-7.75	99.60	110.91
79	CJ	136	ARG	CA-C-N	-7.75	112.01	119.76
79	CJ	136	ARG	C-N-CA	-7.75	112.01	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	182	G	P-O3'-C3'	7.75	131.82	120.20
87	A8	26	C	N1-C1'-C2'	7.75	123.62	112.00
86	A7	91	C	N1-C1'-C2'	7.75	123.62	112.00
46	CN	185	GLY	N-CA-C	-7.74	103.44	112.73
85	A5	4113	U	P-O3'-C3'	7.74	131.81	120.20
85	A5	1458	C	C3'-C2'-C1'	7.74	109.04	101.30
34	AQ	43	GLU	CA-C-N	7.74	127.64	119.05
34	AQ	43	GLU	C-N-CA	7.74	127.64	119.05
36	B2	1556	A	P-O3'-C3'	7.74	131.81	120.20
85	A5	1291	G	C1'-O4'-C4'	-7.74	102.16	109.90
1	Az	393	PRO	CA-C-N	-7.74	109.89	120.87
1	Az	393	PRO	C-N-CA	-7.74	109.89	120.87
36	B2	560	A	P-O3'-C3'	7.74	131.80	120.20
85	A5	431	G	P-O3'-C3'	7.74	131.80	120.20
85	A5	3745	U	N1-C1'-C2'	7.74	123.60	112.00
36	B2	111	A	O4'-C1'-N9	7.73	120.10	108.50
85	A5	2058	G	C1'-O4'-C4'	-7.73	102.17	109.90
85	A5	2881	A	O4'-C1'-C2'	-7.73	99.87	107.60
85	A5	4996	C	N1-C1'-C2'	7.73	123.60	112.00
36	B2	869	A	P-O3'-C3'	7.73	131.80	120.20
85	A5	460	C	O4'-C1'-C2'	-7.73	99.87	107.60
85	A5	4204	C	O4'-C1'-C2'	-7.73	98.07	105.80
20	Aa	63	VAL	CB-CA-C	7.73	123.97	111.29
85	A5	3934	G	O4'-C1'-N9	7.73	120.09	108.50
17	AV	81	LYS	O-C-N	-7.72	112.32	122.59
36	B2	170	A	C5'-C4'-C3'	-7.72	104.41	116.00
36	B2	393	U	O4'-C1'-N1	7.72	119.79	108.20
36	B2	1026	C	O4'-C1'-C2'	-7.72	99.88	107.60
85	A5	1366	G	P-O3'-C3'	7.72	131.79	120.20
85	A5	1647	U	N1-C1'-C2'	7.72	123.59	112.00
85	A5	2462	C	O4'-C1'-C2'	-7.72	99.88	107.60
85	A5	4660	G	N9-C1'-C2'	7.72	123.59	112.00
86	A7	36	C	N1-C1'-C2'	7.72	123.59	112.00
36	B2	1307	U	P-O3'-C3'	7.72	131.78	120.20
85	A5	161	G	C1'-O4'-C4'	-7.72	102.18	109.90
85	A5	417	G	P-O3'-C3'	-7.72	108.62	120.20
85	A5	746	A	C1'-O4'-C4'	-7.72	102.18	109.90
85	A5	2760	G	O4'-C1'-C2'	-7.72	98.08	105.80
36	B2	1302	G	C2'-C3'-O3'	-7.72	97.92	109.50
74	CC	232	VAL	CA-C-N	-7.72	109.80	120.38
74	CC	232	VAL	C-N-CA	-7.72	109.80	120.38
29	AG	219	GLU	O-C-N	-7.72	112.09	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	406	C	C2'-C3'-O3'	7.72	121.08	109.50
36	B2	834	C	C1'-O4'-C4'	-7.71	102.19	109.90
85	A5	167	C	N1-C1'-C2'	7.71	123.57	112.00
85	A5	660	A	O4'-C1'-C2'	-7.71	99.89	107.60
1	Az	111	PHE	CA-C-N	7.71	132.44	121.42
1	Az	111	PHE	C-N-CA	7.71	132.44	121.42
36	B2	1347	U	O4'-C1'-C2'	-7.71	99.89	107.60
1	Az	153	PRO	O-C-N	7.71	132.54	123.21
85	A5	1847	C	N1-C1'-C2'	7.71	123.56	112.00
85	A5	4463	U	P-O3'-C3'	7.71	131.76	120.20
85	A5	1274	A	C5'-C4'-C3'	7.71	126.76	115.20
85	A5	4449	A	O4'-C1'-N9	7.71	119.76	108.20
85	A5	1912	G	N9-C1'-C2'	7.70	123.56	112.00
85	A5	1232	G	P-O3'-C3'	7.70	131.75	120.20
85	A5	4626	A	C1'-C2'-O2'	7.70	123.35	111.80
85	A5	4517	A	O4'-C1'-C2'	-7.70	99.90	107.60
34	AQ	145	TYR	CA-C-N	7.70	135.56	121.70
34	AQ	145	TYR	C-N-CA	7.70	135.56	121.70
85	A5	1641	G	C3'-C2'-C1'	7.70	109.20	101.50
85	A5	2421	G	O4'-C1'-N9	7.70	119.75	108.20
47	CI	204	GLY	CA-C-N	7.70	129.46	119.84
47	CI	204	GLY	C-N-CA	7.70	129.46	119.84
54	CP	145	HIS	CB-CA-C	-7.70	99.00	110.62
85	A5	1547	A	O4'-C1'-C2'	-7.70	99.90	107.60
85	A5	4488	A	O4'-C1'-C2'	7.70	113.50	105.80
69	Cg	62	LYS	N-CA-CB	7.69	123.16	110.39
36	B2	70	G	C4'-C3'-O3'	-7.69	101.46	113.00
6	AX	43	GLY	N-CA-C	-7.69	104.11	115.72
4	AK	41	PRO	N-CA-C	-7.69	96.64	112.47
36	B2	1509	U	P-O3'-C3'	7.69	131.73	120.20
36	B2	1746	U	C2'-C3'-O3'	-7.69	102.17	113.70
36	B2	1701	C	O4'-C1'-C2'	-7.69	98.11	105.80
29	AG	220	ALA	CA-C-N	7.68	133.54	120.71
29	AG	220	ALA	C-N-CA	7.68	133.54	120.71
67	Ce	1	MET	CA-C-N	7.68	136.22	121.54
67	Ce	1	MET	C-N-CA	7.68	136.22	121.54
85	A5	3971	G	C4'-C3'-O3'	-7.68	101.47	113.00
36	B2	752	G	C3'-C2'-C1'	-7.68	93.62	101.30
36	B2	1198	G	C1'-O4'-C4'	-7.68	102.22	109.90
85	A5	1808	C	O4'-C1'-C2'	-7.68	99.92	107.60
36	B2	402	C	O4'-C1'-C2'	-7.68	99.92	107.60
36	B2	1329	U	N1-C1'-C2'	7.68	123.52	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
59	CZ	34	SER	N-CA-C	-7.68	103.01	112.38
85	A5	1724	G	O4'-C1'-N9	7.68	119.72	108.20
85	A5	2372	U	O4'-C1'-N1	7.68	120.02	108.50
66	Cd	105	LEU	O-C-N	7.68	132.84	123.16
85	A5	1426	G	O4'-C1'-N9	7.67	120.01	108.50
85	A5	4510	A	O3'-P-O5'	7.67	115.51	104.00
85	A5	4719	G	C3'-C2'-C1'	-7.67	93.63	101.30
87	A8	95	A	O3'-P-O5'	7.67	115.51	104.00
85	A5	2547	G	C1'-O4'-C4'	-7.67	102.23	109.90
36	B2	31	U	P-O3'-C3'	7.67	131.70	120.20
36	B2	1428	G	O4'-C1'-N9	7.67	120.00	108.50
52	CS	72	PRO	O-C-N	-7.67	112.33	122.22
74	CC	133	LEU	C-N-CD	-7.67	93.56	125.00
85	A5	5015	G	C3'-C2'-C1'	7.67	108.97	101.30
86	A7	73	U	P-O3'-C3'	7.67	131.70	120.20
36	B2	201	C	C3'-C2'-C1'	7.67	108.97	101.30
85	A5	661	C	O4'-C1'-C2'	-7.67	99.93	107.60
85	A5	2409	U	O4'-C1'-C2'	-7.67	99.94	107.60
85	A5	650	C	O4'-C1'-C2'	-7.66	99.94	107.60
28	AC	201	GLY	N-CA-C	-7.66	105.96	115.08
85	A5	2101	C	P-O5'-C5'	-7.66	109.41	120.90
46	CN	182	HIS	N-CA-C	-7.66	98.69	110.10
49	CQ	140	SER	N-CA-C	-7.66	96.92	109.40
85	A5	67	C	O4'-C1'-C2'	-7.66	99.94	107.60
85	A5	530	U	P-O3'-C3'	7.66	131.68	120.20
85	A5	700	G	C1'-O4'-C4'	-7.66	102.25	109.90
36	B2	558	G	C1'-C2'-O2'	7.65	119.88	108.40
78	Co	99	ARG	N-CA-C	7.65	120.92	107.61
85	A5	2471	G	C4'-C3'-C2'	7.65	110.25	102.60
36	B2	1148	A	O4'-C1'-C2'	7.65	113.45	105.80
54	CP	93	HIS	CB-CA-C	7.65	123.64	110.79
85	A5	1598	C	N1-C1'-C2'	7.65	123.47	112.00
85	A5	4431	U	O4'-C1'-C2'	-7.65	99.95	107.60
35	Ah	163	ARG	N-CA-C	7.64	120.18	110.24
85	A5	1962	A	P-O3'-C3'	-7.64	108.73	120.20
81	CE	27	VAL	N-CA-CB	-7.64	98.51	111.50
85	A5	3792	G	N9-C1'-C2'	7.64	123.46	112.00
36	B2	1195	A	C2'-C3'-O3'	-7.64	102.24	113.70
81	CE	141	ARG	N-CA-C	7.64	121.27	110.50
85	A5	1222	A	O4'-C1'-C2'	-7.64	98.16	105.80
44	CM	44	GLN	N-CA-CB	-7.64	97.58	110.49
68	Cf	58	VAL	N-CA-CB	7.64	123.83	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ag	192	THR	N-CA-C	7.64	120.66	110.88
85	A5	1194	G	P-O3'-C3'	7.64	131.66	120.20
85	A5	3796	U	N1-C1'-C2'	7.64	123.46	112.00
55	CU	48	LYS	O-C-N	-7.63	113.48	122.87
86	A7	114	U	C4'-C3'-O3'	-7.63	101.55	113.00
36	B2	1255	G	C1'-O4'-C4'	-7.63	102.27	109.90
85	A5	931	C	C1'-C2'-O2'	7.63	123.25	111.80
85	A5	4199	C	O4'-C1'-C2'	-7.63	99.97	107.60
3	AU	68	THR	N-CA-CB	-7.63	98.97	110.11
24	Ae	48	THR	CA-C-N	-7.63	110.22	122.66
24	Ae	48	THR	C-N-CA	-7.63	110.22	122.66
85	A5	4078	C	O4'-C1'-C2'	-7.63	99.97	107.60
87	A8	115	G	C1'-O4'-C4'	-7.63	102.27	109.90
1	Az	102	LEU	N-CA-C	-7.63	96.83	108.96
85	A5	1822	U	O4'-C1'-N1	7.63	119.94	108.50
74	CC	276	ASN	CA-CB-CG	-7.62	104.98	112.60
85	A5	23	C	N1-C1'-C2'	7.62	123.44	112.00
85	A5	2407	G	C1'-C2'-O2'	7.62	123.23	111.80
85	A5	2585	C	N1-C1'-C2'	-7.62	102.57	114.00
85	A5	3818	U	O4'-C1'-N1	7.62	119.93	108.50
85	A5	4892	A	O4'-C1'-C2'	-7.62	99.98	107.60
86	A7	115	A	C2'-C3'-O3'	7.62	125.13	113.70
85	A5	524	C	O4'-C1'-C2'	-7.62	99.98	107.60
85	A5	2596	G	O4'-C1'-C2'	-7.62	99.98	107.60
36	B2	1562	C	N1-C1'-C2'	7.62	123.43	112.00
85	A5	2100	A	N9-C1'-C2'	7.62	123.43	112.00
85	A5	4877	G	C4'-C3'-O3'	7.62	120.83	109.40
36	B2	591	U	O4'-C1'-N1	7.61	119.62	108.20
36	B2	1023	A	O4'-C1'-C2'	-7.61	99.99	107.60
53	CT	71	ALA	CA-C-N	-7.61	112.55	123.06
53	CT	71	ALA	C-N-CA	-7.61	112.55	123.06
85	A5	1524	A	O4'-C1'-C2'	7.61	115.21	107.60
85	A5	3761	C	P-O3'-C3'	-7.61	108.78	120.20
85	A5	4181	U	O4'-C1'-N1	7.61	119.92	108.50
62	Cb	54	LEU	N-CA-CB	7.61	123.35	110.49
85	A5	4925	U	O4'-C1'-C2'	-7.61	99.99	107.60
36	B2	747	U	O3'-P-O5'	-7.61	92.58	104.00
85	A5	1477	C	O4'-C1'-C2'	-7.61	99.99	107.60
82	CG	106	THR	O-C-N	7.61	132.71	122.59
85	A5	3943	A	O4'-C1'-C2'	-7.61	99.99	107.60
82	CG	35	ARG	CA-C-N	-7.61	110.33	119.84
82	CG	35	ARG	C-N-CA	-7.61	110.33	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	346	G	C3'-C2'-C1'	-7.61	93.69	101.30
85	A5	4044	U	P-O3'-C3'	7.61	131.61	120.20
36	B2	1120	U	N1-C1'-C2'	7.60	123.40	112.00
54	CP	5	SER	CB-CA-C	-7.60	95.29	110.42
85	A5	1986	U	N1-C1'-C2'	7.60	123.41	112.00
85	A5	4108	G	O4'-C1'-N9	7.60	119.90	108.50
69	Cg	45	ALA	CA-C-N	-7.60	109.97	120.38
69	Cg	45	ALA	C-N-CA	-7.60	109.97	120.38
36	B2	898	U	P-O5'-C5'	7.60	132.30	120.90
64	CF	81	PHE	CA-CB-CG	-7.60	106.20	113.80
85	A5	4524	G	P-O3'-C3'	-7.60	108.80	120.20
85	A5	1967	A	O4'-C1'-C2'	-7.60	100.00	107.60
85	A5	2779	C	N1-C1'-C2'	7.60	123.40	112.00
36	B2	861	A	O4'-C1'-N9	7.60	119.89	108.50
85	A5	755	C	O4'-C1'-C2'	-7.60	100.00	107.60
85	A5	2116	C	O4'-C1'-C2'	-7.60	98.20	105.80
36	B2	381	C	C4'-C3'-O3'	-7.59	101.61	113.00
85	A5	1371	A	C3'-C2'-C1'	7.59	108.89	101.30
85	A5	2017	A	C4'-C3'-O3'	7.59	124.39	113.00
67	Ce	91	CYS	N-CA-C	7.59	121.37	112.72
85	A5	251	C	O4'-C1'-C2'	-7.59	100.01	107.60
85	A5	1485	C	N1-C1'-C2'	7.59	123.39	112.00
85	A5	1578	U	O5'-C5'-C4'	7.59	122.89	111.50
36	B2	1495	G	C2'-C3'-O3'	-7.59	102.32	113.70
85	A5	469	C	O3'-P-O5'	7.59	115.38	104.00
38	Cz	67	VAL	CB-CA-C	-7.59	99.52	110.83
81	CE	274	VAL	CA-C-N	-7.59	112.30	123.00
81	CE	274	VAL	C-N-CA	-7.59	112.30	123.00
85	A5	1235	G	O4'-C1'-N9	7.59	119.88	108.50
85	A5	2948	C	P-O5'-C5'	7.59	131.38	120.00
28	AC	100	ALA	N-CA-C	-7.58	98.80	110.10
36	B2	1648	G	P-O3'-C3'	7.58	131.58	120.20
85	A5	4349	C	P-O3'-C3'	7.58	131.58	120.20
85	A5	2114	G	N9-C1'-C2'	7.58	123.38	112.00
85	A5	4900	C	N1-C1'-C2'	7.58	125.37	114.00
85	A5	1457	G	N9-C1'-C2'	7.58	123.37	112.00
85	A5	3928	A	O4'-C1'-C2'	-7.58	100.02	107.60
85	A5	4870	G	O4'-C4'-C3'	-7.58	98.52	106.10
20	Aa	60	ASP	N-CA-C	7.58	121.75	108.56
36	B2	1695	A	O4'-C1'-C2'	-7.58	98.22	105.80
36	B2	875	A	O4'-C1'-C2'	-7.58	100.02	107.60
85	A5	1432	G	O3'-P-O5'	-7.58	92.63	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	791	C	O3'-P-O5'	-7.58	92.64	104.00
38	Cz	209	THR	N-CA-CB	7.58	123.29	110.49
85	A5	742	G	O4'-C1'-N9	7.58	119.86	108.50
85	A5	975	C	P-O5'-C5'	-7.58	109.54	120.90
85	A5	1892	A	O4'-C1'-N9	7.58	119.56	108.20
47	CI	205	PRO	O-C-N	-7.57	112.42	122.64
85	A5	450	G	O4'-C1'-C2'	-7.57	100.03	107.60
74	CC	346	ASN	CA-CB-CG	-7.57	105.03	112.60
85	A5	2470	C	O3'-P-O5'	7.57	115.36	104.00
36	B2	1864	U	P-O5'-C5'	7.57	132.26	120.90
50	CR	79	GLY	O-C-N	-7.57	114.12	122.68
85	A5	1371	A	C1'-O4'-C4'	7.57	117.47	109.90
2	Ag	294	ASP	N-CA-CB	-7.57	100.57	111.54
40	CK	114	ARG	N-CA-C	7.57	120.49	111.33
85	A5	316	U	C3'-C2'-C1'	7.57	109.07	101.50
27	AE	170	THR	CA-C-N	7.57	136.00	121.54
27	AE	170	THR	C-N-CA	7.57	136.00	121.54
36	B2	913	A	C3'-C2'-C1'	7.57	109.07	101.50
82	CG	61	ILE	N-CA-C	-7.57	104.41	111.45
85	A5	502	C	O4'-C1'-C2'	-7.57	100.03	107.60
85	A5	1979	A	C3'-C2'-C1'	7.57	108.87	101.30
60	Cr	13	CYS	N-CA-C	7.57	122.10	113.02
85	A5	4750	G	P-O3'-C3'	7.57	131.55	120.20
85	A5	1360	G	P-O5'-C5'	7.56	132.25	120.90
20	Aa	10	ARG	NH1-CZ-NH2	-7.56	109.47	119.30
36	B2	1454	A	O4'-C1'-C2'	-7.56	100.04	107.60
81	CE	117	PRO	O-C-N	-7.56	112.43	122.64
4	AK	38	LYS	N-CA-C	-7.56	94.70	110.80
36	B2	49	C	N1-C1'-C2'	7.56	123.34	112.00
50	CR	160	GLU	N-CA-C	-7.56	103.86	113.23
85	A5	4336	A	O3'-P-O5'	-7.56	92.66	104.00
35	Ah	142	LEU	N-CA-CB	7.56	122.40	110.39
2	Ag	24	THR	C-N-CD	-7.55	94.03	125.00
36	B2	71	G	C2'-C3'-O3'	-7.55	98.17	109.50
85	A5	1662	C	C3'-C2'-C1'	7.55	108.85	101.30
85	A5	297	U	O4'-C1'-C2'	-7.55	100.05	107.60
85	A5	649	A	O4'-C1'-C2'	-7.55	100.05	107.60
85	A5	2648	G	P-O5'-C5'	7.55	132.23	120.90
85	A5	4290	U	O4'-C1'-C2'	-7.55	98.25	105.80
85	A5	4887	C	N1-C1'-C2'	7.55	123.33	112.00
81	CE	128	HIS	CA-C-O	-7.55	109.71	120.51
85	A5	2068	C	P-O5'-C5'	7.55	132.23	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2930	G	O3'-P-O5'	7.55	115.33	104.00
85	A5	4944	C	C1'-O4'-C4'	-7.55	102.15	109.70
4	AK	84	HIS	CB-CA-C	-7.55	94.30	110.76
36	B2	1779	G	O4'-C1'-N9	7.55	119.82	108.50
37	BC	15	G	O4'-C1'-C2'	-7.55	100.05	107.60
85	A5	2419	C	N1-C1'-C2'	7.55	123.32	112.00
84	Cu	45	GLU	CB-CA-C	7.55	122.73	110.88
85	A5	4086	G	O4'-C1'-C2'	-7.55	98.25	105.80
85	A5	4696	C	N1-C1'-C2'	7.55	123.32	112.00
36	B2	1418	C	O4'-C1'-N1	7.55	119.52	108.20
37	BC	7	G	O4'-C1'-C2'	-7.55	98.25	105.80
45	Ca	66	ASN	N-CA-C	-7.55	94.73	110.80
49	CQ	11	ARG	N-CA-CB	-7.55	97.74	110.49
85	A5	2687	U	N1-C1'-C2'	7.55	123.32	112.00
85	A5	2902	G	O4'-C1'-N9	-7.55	97.18	108.50
85	A5	203	U	C1'-O4'-C4'	-7.54	102.36	109.90
17	AV	31	SER	O-C-N	-7.54	114.07	123.27
36	B2	1508	A	N9-C1'-C2'	-7.54	102.69	114.00
82	CG	41	ILE	N-CA-C	7.54	125.03	109.34
85	A5	4894	A	O4'-C1'-N9	7.54	119.81	108.50
53	CT	139	HIS	N-CA-C	7.54	120.83	108.08
85	A5	1280	C	O4'-C1'-C2'	-7.54	98.26	105.80
36	B2	1599	U	O4'-C1'-N1	7.54	119.81	108.50
85	A5	2235	C	O3'-P-O5'	7.54	115.31	104.00
36	B2	1761	U	P-O5'-C5'	7.54	132.21	120.90
36	B2	1253	A	P-O3'-C3'	7.54	131.50	120.20
23	AD	190	LEU	CA-C-N	-7.53	110.34	120.96
23	AD	190	LEU	C-N-CA	-7.53	110.34	120.96
38	Cz	108	ASP	CA-CB-CG	-7.53	105.07	112.60
46	CN	80	THR	CB-CA-C	7.53	125.41	110.42
64	CF	220	MET	O-C-N	7.53	132.61	122.59
85	A5	2015	U	N1-C1'-C2'	7.53	123.30	112.00
87	A8	57	C	N1-C1'-C2'	7.53	123.30	112.00
67	Ce	17	THR	O-C-N	-7.53	113.95	121.93
85	A5	733	A	C1'-C2'-O2'	7.53	119.69	108.40
36	B2	79	A	C5'-C4'-O4'	7.53	120.39	109.10
60	Cr	40	TYR	N-CA-CB	7.53	123.82	110.80
85	A5	955	G	O4'-C1'-N9	7.53	119.79	108.50
85	A5	2396	A	O5'-C5'-C4'	-7.53	100.41	111.70
85	A5	4175	G	O4'-C1'-N9	7.53	119.79	108.50
36	B2	829	C	O4'-C1'-C2'	-7.53	98.28	105.80
36	B2	1292	C	P-O5'-C5'	-7.53	109.61	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1471	C	O4'-C1'-C2'	-7.53	100.08	107.60
85	A5	2812	A	O5'-C5'-C4'	-7.53	100.21	111.50
36	B2	933	G	O4'-C1'-C2'	7.52	115.12	107.60
28	AC	133	TYR	CA-C-N	-7.52	112.12	122.95
28	AC	133	TYR	C-N-CA	-7.52	112.12	122.95
30	AF	42	LYS	N-CA-C	7.52	119.84	109.54
44	CM	7	VAL	CB-CA-C	7.52	123.63	111.29
49	CQ	41	SER	CA-C-N	-7.52	107.17	121.54
49	CQ	41	SER	C-N-CA	-7.52	107.17	121.54
85	A5	499	G	C1'-O4'-C4'	-7.52	102.38	109.90
85	A5	2819	U	O4'-C1'-C2'	-7.52	100.08	107.60
5	AO	95	ILE	N-CA-C	7.52	119.91	108.71
55	CU	60	VAL	CG1-CB-CG2	7.52	127.34	110.80
63	CB	293	ILE	CB-CA-C	-7.52	98.96	111.29
85	A5	955	G	C4'-C3'-C2'	-7.52	95.08	102.60
85	A5	1240	G	P-O5'-C5'	7.52	132.18	120.90
85	A5	2100	A	C5'-C4'-C3'	7.52	127.28	116.00
81	CE	93	THR	CB-CA-C	-7.52	92.56	109.10
28	AC	98	LEU	CA-C-N	-7.51	109.14	122.97
28	AC	98	LEU	C-N-CA	-7.51	109.14	122.97
36	B2	553	U	O4'-C1'-N1	7.51	119.77	108.50
36	B2	1019	C	N1-C1'-C2'	7.51	123.27	112.00
85	A5	1802	A	O4'-C1'-C2'	-7.51	100.08	107.60
26	AJ	144	ILE	CB-CA-C	7.51	125.03	111.36
36	B2	528	A	N9-C1'-C2'	7.51	123.27	112.00
36	B2	1008	A	P-O3'-C3'	7.51	131.47	120.20
58	CW	97	LYS	C-N-CD	-7.51	94.20	125.00
85	A5	2127	C	P-O3'-C3'	7.51	131.46	120.20
36	B2	217	A	C3'-C2'-C1'	7.51	108.81	101.30
87	A8	12	G	N9-C1'-C2'	7.51	123.26	112.00
85	A5	1756	U	O3'-P-O5'	7.50	115.26	104.00
19	AZ	112	ASN	N-CA-CB	-7.50	99.13	110.01
85	A5	2017	A	C2'-C3'-O3'	-7.50	102.44	113.70
79	CJ	154	LYS	N-CA-C	-7.50	99.92	110.50
85	A5	4907	G	P-O3'-C3'	7.50	131.45	120.20
36	B2	797	C	C3'-C2'-C1'	7.50	109.00	101.50
39	Cq	94	ASP	CA-C-N	-7.50	107.22	121.54
39	Cq	94	ASP	C-N-CA	-7.50	107.22	121.54
46	CN	198	LEU	CA-C-O	7.50	129.24	120.69
55	CU	77	PRO	CB-CA-C	7.50	120.79	111.12
85	A5	2280	G	N9-C1'-C2'	7.50	123.25	112.00
85	A5	2663	G	O4'-C1'-N9	7.50	119.75	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4753	U	C4'-C3'-O3'	7.50	124.25	113.00
85	A5	1612	G	C1'-O4'-C4'	-7.50	102.20	109.70
30	AF	131	ALA	CA-C-N	-7.50	106.72	121.41
30	AF	131	ALA	C-N-CA	-7.50	106.72	121.41
65	Cc	91	VAL	N-CA-C	-7.50	96.46	108.90
9	Ad	24	CYS	N-CA-C	7.49	122.49	112.30
66	Cd	116	ASN	N-CA-C	7.49	126.76	110.80
85	A5	2572	C	O4'-C1'-C2'	-7.49	100.11	107.60
85	A5	3945	A	O4'-C1'-N9	7.49	119.74	108.50
28	AC	59	GLU	CA-C-N	7.49	131.44	120.95
28	AC	59	GLU	C-N-CA	7.49	131.44	120.95
31	AH	93	VAL	CA-C-N	-7.49	112.21	122.77
31	AH	93	VAL	C-N-CA	-7.49	112.21	122.77
40	CK	114	ARG	NE-CZ-NH1	7.49	128.99	121.50
48	CD	256	LYS	CA-C-N	-7.49	110.48	119.84
48	CD	256	LYS	C-N-CA	-7.49	110.48	119.84
85	A5	203	U	N1-C1'-C2'	7.49	123.24	112.00
85	A5	1451	G	N9-C1'-C2'	7.49	123.23	112.00
85	A5	2096	G	P-O3'-C3'	7.49	131.44	120.20
29	AG	85	ARG	CA-C-N	7.49	127.47	119.76
29	AG	85	ARG	C-N-CA	7.49	127.47	119.76
36	B2	650	A	C3'-C2'-C1'	7.49	108.79	101.30
85	A5	1268	G	C4'-C3'-C2'	7.49	110.09	102.60
36	B2	962	A	O4'-C1'-C2'	-7.49	100.11	107.60
36	B2	1459	G	C1'-O4'-C4'	-7.49	102.41	109.90
52	CS	137	CYS	CA-C-N	7.49	130.92	120.29
52	CS	137	CYS	C-N-CA	7.49	130.92	120.29
7	AM	10	GLY	CA-C-N	7.48	131.54	122.26
7	AM	10	GLY	C-N-CA	7.48	131.54	122.26
36	B2	974	C	N1-C1'-C2'	7.48	123.22	112.00
36	B2	1429	G	P-O5'-C5'	7.48	132.12	120.90
85	A5	922	C	C5'-C4'-C3'	7.48	127.22	116.00
85	A5	2248	C	C3'-C2'-C1'	7.48	108.78	101.30
85	A5	3596	A	O4'-C1'-C2'	-7.48	100.12	107.60
87	A8	113	C	O4'-C1'-C2'	-7.48	100.12	107.60
46	CN	201	HIS	O-C-N	-7.48	113.93	122.68
85	A5	1721	G	N9-C1'-C2'	7.48	123.22	112.00
85	A5	2504	C	P-O5'-C5'	7.48	132.12	120.90
85	A5	2686	G	P-O3'-C3'	7.48	131.42	120.20
36	B2	687	C	O4'-C1'-N1	7.48	119.42	108.20
85	A5	4176	C	N1-C1'-C2'	7.48	123.22	112.00
85	A5	4658	G	C1'-O4'-C4'	-7.48	102.42	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	178	C	O4'-C1'-C2'	-7.48	100.12	107.60
31	AH	108	SER	N-CA-CB	7.47	123.12	110.49
39	Cq	68	HIS	N-CA-CB	7.47	121.11	110.12
74	CC	221	PHE	CA-CB-CG	-7.47	106.33	113.80
1	Az	533	MET	CB-CA-C	-7.47	99.09	110.90
36	B2	295	C	N1-C1'-C2'	7.47	123.21	112.00
36	B2	1436	C	P-O3'-C3'	7.47	131.41	120.20
85	A5	1648	C	C3'-C2'-C1'	7.47	108.77	101.30
85	A5	4088	C	N1-C1'-C2'	7.47	123.21	112.00
35	Ah	141	PRO	O-C-N	-7.47	112.55	122.64
85	A5	406	C	N1-C1'-C2'	7.47	125.21	114.00
48	CD	285	ALA	N-CA-CB	7.47	123.11	110.49
36	B2	1026	C	C3'-C2'-C1'	7.46	108.76	101.30
8	AS	95	TYR	N-CA-C	7.46	119.94	110.24
85	A5	1899	G	C1'-O4'-C4'	-7.46	102.44	109.90
85	A5	2018	C	O5'-C5'-C4'	-7.46	100.31	111.50
86	A7	105	C	N1-C1'-C2'	7.46	123.19	112.00
53	CT	11	THR	N-CA-C	7.46	121.23	112.72
85	A5	417	G	P-O5'-C5'	7.46	132.09	120.90
85	A5	1459	A	O4'-C1'-C2'	-7.46	100.14	107.60
85	A5	1463	C	N1-C1'-C2'	7.46	123.19	112.00
36	B2	579	C	O4'-C1'-C2'	-7.46	100.14	107.60
86	A7	85	G	N9-C1'-C2'	7.46	123.19	112.00
36	B2	1479	G	O4'-C1'-N9	7.46	119.69	108.50
85	A5	2464	C	O3'-P-O5'	-7.46	92.81	104.00
2	Ag	25	PRO	CA-C-N	-7.46	110.75	120.44
2	Ag	25	PRO	C-N-CA	-7.46	110.75	120.44
36	B2	494	C	C3'-C2'-C1'	7.46	108.76	101.30
50	CR	53	LYS	C-N-CD	-7.46	94.43	125.00
36	B2	1651	A	O4'-C1'-C2'	-7.46	100.14	107.60
27	AE	129	ILE	CA-C-N	7.45	133.50	122.99
27	AE	129	ILE	C-N-CA	7.45	133.50	122.99
85	A5	1288	G	P-O3'-C3'	7.45	131.38	120.20
85	A5	1661	C	C1'-O4'-C4'	-7.45	102.45	109.90
85	A5	4114	C	P-O3'-C3'	7.45	131.38	120.20
85	A5	8	U	N1-C1'-C2'	7.45	123.18	112.00
85	A5	2123	C	C4'-C3'-C2'	-7.45	95.15	102.60
36	B2	1867	U	O4'-C1'-N1	7.45	119.38	108.20
85	A5	2394	G	O4'-C1'-C2'	-7.45	98.35	105.80
38	Cz	83	PRO	CA-C-N	7.45	135.76	121.54
38	Cz	83	PRO	C-N-CA	7.45	135.76	121.54
85	A5	1288	G	C5'-C4'-O4'	7.45	120.97	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2413	U	O4'-C1'-N1	7.45	119.67	108.50
85	A5	2547	G	P-O5'-C5'	7.45	132.07	120.90
85	A5	3941	G	O4'-C1'-N9	7.45	119.67	108.50
36	B2	989	C	O4'-C1'-C2'	-7.45	98.36	105.80
85	A5	423	G	C1'-O4'-C4'	-7.45	102.45	109.90
85	A5	2766	A	C2'-C3'-O3'	7.45	120.67	109.50
87	A8	148	A	O4'-C1'-C2'	-7.45	100.16	107.60
36	B2	899	U	O4'-C1'-C2'	-7.44	100.16	107.60
85	A5	373	G	O4'-C1'-N9	7.44	119.67	108.50
85	A5	1273	G	C3'-C2'-C1'	-7.44	93.86	101.30
85	A5	2661	U	P-O3'-C3'	7.44	131.37	120.20
85	A5	136	C	O4'-C1'-C2'	-7.44	100.16	107.60
33	AI	43	ILE	N-CA-C	-7.44	97.78	108.42
36	B2	607	U	N1-C1'-C2'	7.44	123.16	112.00
42	CL	56	ARG	N-CA-C	-7.44	96.14	109.09
85	A5	1280	C	C2'-C3'-O3'	7.44	120.66	109.50
85	A5	1554	A	N9-C1'-C2'	7.44	123.16	112.00
85	A5	2108	G	P-O3'-C3'	7.44	131.36	120.20
87	A8	67	U	O4'-C1'-C2'	-7.44	100.16	107.60
33	AI	178	ARG	CG-CD-NE	-7.44	95.64	112.00
85	A5	643	C	O4'-C1'-C2'	-7.44	100.16	107.60
85	A5	2053	C	N1-C1'-C2'	7.44	123.16	112.00
85	A5	4410	G	C3'-C2'-C1'	7.44	108.74	101.30
85	A5	4871	C	O4'-C4'-C3'	-7.44	98.66	106.10
36	B2	1353	A	O3'-P-O5'	-7.43	92.85	104.00
36	B2	1416	C	O4'-C1'-N1	7.43	119.65	108.50
36	B2	1721	U	P-O3'-C3'	7.43	131.35	120.20
52	CS	5	GLY	N-CA-C	7.43	124.85	111.02
74	CC	265	GLY	CA-C-N	-7.43	108.67	123.09
74	CC	265	GLY	C-N-CA	-7.43	108.67	123.09
85	A5	1369	C	C5'-C4'-C3'	7.43	126.35	115.20
36	B2	184	G	N9-C1'-C2'	7.43	123.15	112.00
85	A5	4659	G	N9-C1'-C2'	7.43	123.15	112.00
86	A7	67	C	N1-C1'-C2'	7.43	123.15	112.00
37	BC	74	C	O4'-C1'-C2'	-7.43	100.17	107.60
81	CE	60	SER	N-CA-CB	7.43	123.13	110.50
8	AS	142	ARG	N-CA-CB	-7.43	97.87	110.50
36	B2	183	G	C5'-C4'-C3'	7.43	127.14	116.00
85	A5	3698	G	N9-C1'-C2'	7.43	123.14	112.00
36	B2	1115	U	O4'-C1'-C2'	7.43	113.23	105.80
82	CG	103	ARG	C-N-CD	-7.43	94.55	125.00
85	A5	1678	C	O4'-C1'-C2'	-7.43	98.37	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4537	C	N1-C1'-C2'	7.43	123.14	112.00
36	B2	193	C	O5'-C5'-C4'	-7.42	100.36	111.50
85	A5	1436	C	O4'-C1'-C2'	-7.42	100.17	107.60
85	A5	4075	U	C1'-O4'-C4'	7.42	117.12	109.70
11	AL	151	THR	CB-CA-C	7.42	126.94	110.76
15	AB	41	ILE	CA-C-N	7.42	133.57	121.99
15	AB	41	ILE	C-N-CA	7.42	133.57	121.99
81	CE	116	TYR	CA-C-N	7.42	129.12	119.84
81	CE	116	TYR	C-N-CA	7.42	129.12	119.84
85	A5	1676	C	N1-C1'-C2'	7.42	123.13	112.00
85	A5	4502	C	O4'-C1'-C2'	-7.42	100.18	107.60
1	Az	820	LEU	CA-C-N	-7.42	112.39	121.00
1	Az	820	LEU	C-N-CA	-7.42	112.39	121.00
85	A5	4170	A	O4'-C1'-C2'	-7.42	98.38	105.80
36	B2	1507	G	C1'-O4'-C4'	-7.42	102.28	109.70
36	B2	916	A	O4'-C1'-N9	7.42	119.32	108.20
36	B2	1710	C	O4'-C1'-C2'	-7.42	100.18	107.60
81	CE	127	SER	N-CA-CB	-7.42	99.07	109.97
85	A5	4997	G	P-O3'-C3'	7.42	131.32	120.20
85	A5	3586	G	C1'-O4'-C4'	-7.42	102.48	109.90
85	A5	1072	C	C3'-C2'-C1'	7.41	108.71	101.30
63	CB	150	PHE	N-CA-C	-7.41	95.01	110.80
85	A5	3870	C	N1-C1'-C2'	7.41	123.12	112.00
31	AH	191	GLU	CA-C-N	-7.41	109.05	122.54
31	AH	191	GLU	C-N-CA	-7.41	109.05	122.54
52	CS	81	TRP	CA-C-O	-7.41	106.43	121.03
85	A5	2319	C	C3'-C2'-C1'	7.41	108.71	101.30
85	A5	2669	C	C1'-O4'-C4'	7.41	117.11	109.70
85	A5	3656	A	O4'-C1'-C2'	-7.41	100.19	107.60
85	A5	4189	U	O4'-C1'-C2'	-7.41	100.19	107.60
85	A5	117	C	C2'-C3'-O3'	7.41	124.81	113.70
85	A5	2757	A	O4'-C1'-C2'	-7.41	100.19	107.60
3	AU	117	ALA	O-C-N	7.41	132.44	122.59
82	CG	162	ASP	C-N-CD	-7.40	94.65	125.00
85	A5	3651	A	C3'-C2'-C1'	7.40	108.70	101.30
36	B2	213	G	O4'-C1'-N9	7.40	119.60	108.50
85	A5	485	C	O4'-C1'-C2'	-7.40	98.40	105.80
85	A5	4165	C	C5'-C4'-C3'	7.40	127.10	116.00
36	B2	301	A	O4'-C1'-C2'	-7.40	100.20	107.60
61	Ch	103	LYS	N-CA-C	7.40	121.13	109.81
72	Ck	5	ILE	CA-C-N	-7.40	111.43	121.71
72	Ck	5	ILE	C-N-CA	-7.40	111.43	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	704	C	O4'-C1'-C2'	-7.40	100.20	107.60
1	Az	420	LEU	CA-C-N	7.40	130.41	120.50
1	Az	420	LEU	C-N-CA	7.40	130.41	120.50
2	Ag	273	GLU	CA-C-N	7.40	134.01	122.70
2	Ag	273	GLU	C-N-CA	7.40	134.01	122.70
36	B2	1535	U	P-O3'-C3'	7.40	131.29	120.20
36	B2	593	C	C3'-C2'-C1'	7.39	108.69	101.30
85	A5	1611	C	O4'-C1'-C2'	-7.39	98.41	105.80
85	A5	1921	C	P-O3'-C3'	7.39	131.29	120.20
7	AM	16	THR	N-CA-C	-7.39	103.53	112.54
36	B2	1505	U	O4'-C1'-C2'	-7.39	100.21	107.60
52	CS	73	LEU	CA-C-O	-7.39	109.95	120.51
67	Ce	14	LYS	O-C-N	7.39	130.81	122.32
85	A5	1343	A	C4'-C3'-C2'	-7.39	95.21	102.60
85	A5	4613	C	N1-C1'-C2'	7.39	123.08	112.00
13	AP	36	LEU	CA-C-N	7.38	135.65	121.54
13	AP	36	LEU	C-N-CA	7.38	135.65	121.54
4	AK	89	ILE	CA-CB-CG2	7.38	123.05	110.50
58	CW	15	PRO	N-CA-C	-7.38	103.68	113.65
85	A5	4870	G	P-O3'-C3'	-7.38	109.12	120.20
36	B2	1017	U	O4'-C1'-C2'	-7.38	100.22	107.60
85	A5	1246	G	C1'-O4'-C4'	-7.38	102.52	109.90
85	A5	1467	C	C3'-C2'-C1'	7.38	108.68	101.30
85	A5	1539	G	O5'-C5'-C4'	7.38	122.57	111.50
85	A5	4050	A	O4'-C1'-C2'	-7.38	100.22	107.60
85	A5	1313	C	C1'-C2'-O2'	-7.38	100.73	111.80
36	B2	734	C	O3'-P-O5'	7.38	115.07	104.00
64	CF	23	ARG	O-C-N	7.38	132.40	122.59
85	A5	70	A	N9-C1'-C2'	-7.38	102.93	114.00
85	A5	1282	G	P-O5'-C5'	7.38	131.97	120.90
85	A5	3800	A	O3'-P-O5'	7.38	115.07	104.00
37	BC	4	A	O4'-C1'-C2'	-7.38	100.22	107.60
85	A5	307	A	C3'-C2'-C1'	7.37	108.67	101.30
85	A5	1546	C	N1-C1'-C2'	7.37	123.06	112.00
85	A5	2335	C	N1-C1'-C2'	7.37	123.06	112.00
36	B2	1436	C	O4'-C1'-C2'	-7.37	100.23	107.60
53	CT	68	THR	CA-C-N	-7.37	107.46	121.54
53	CT	68	THR	C-N-CA	-7.37	107.46	121.54
85	A5	1756	U	P-O3'-C3'	-7.37	109.14	120.20
85	A5	2545	U	P-O3'-C3'	7.37	131.26	120.20
85	A5	3908	A	O4'-C1'-N9	7.37	119.26	108.20
85	A5	4456	C	O4'-C1'-C2'	-7.37	100.23	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	AE	130	PHE	CA-C-N	-7.37	113.27	122.48
27	AE	130	PHE	C-N-CA	-7.37	113.27	122.48
85	A5	2033	A	O4'-C1'-N9	7.37	119.26	108.20
85	A5	4223	C	N1-C1'-C2'	7.37	123.06	112.00
21	Ab	43	ILE	N-CA-C	7.37	118.67	107.77
38	Cz	143	ASN	CA-C-N	-7.37	110.61	120.63
38	Cz	143	ASN	C-N-CA	-7.37	110.61	120.63
85	A5	294	G	P-O3'-C3'	7.37	131.25	120.20
18	AY	31	GLY	N-CA-C	7.37	130.64	113.18
36	B2	327	G	C2'-C3'-O3'	7.37	120.55	109.50
7	AM	99	ASN	C-N-CD	-7.37	94.80	125.00
81	CE	188	ARG	CD-NE-CZ	-7.37	114.09	124.40
85	A5	2861	C	N1-C1'-C2'	7.37	123.05	112.00
36	B2	414	A	O4'-C1'-C2'	-7.36	100.24	107.60
85	A5	4667	C	N1-C1'-C2'	7.36	123.05	112.00
20	Aa	97	PRO	CA-CB-CG	7.36	118.49	104.50
85	A5	288	G	C1'-O4'-C4'	-7.36	102.54	109.90
85	A5	3623	C	O4'-C1'-C2'	-7.36	100.24	107.60
36	B2	1472	C	C2'-C3'-O3'	-7.36	102.66	113.70
85	A5	201	C	N1-C1'-C2'	7.36	123.04	112.00
85	A5	2760	G	C1'-O4'-C4'	7.36	117.06	109.70
34	AQ	135	PRO	CB-CA-C	7.36	122.15	111.04
85	A5	326	C	N1-C1'-C2'	7.36	123.04	112.00
85	A5	3963	A	P-O3'-C3'	7.36	131.24	120.20
74	CC	296	PRO	CA-N-CD	-7.36	101.70	112.00
74	CC	312	ARG	O-C-N	7.36	132.38	122.59
85	A5	3671	G	N9-C1'-C2'	7.36	123.04	112.00
85	A5	4947	U	C4'-C3'-O3'	7.36	124.04	113.00
85	A5	28	C	O4'-C1'-C2'	-7.36	100.25	107.60
85	A5	1805	A	N9-C1'-C2'	-7.36	102.97	114.00
85	A5	4422	A	O4'-C1'-C2'	-7.36	100.25	107.60
36	B2	353	C	N1-C1'-C2'	7.35	123.03	112.00
36	B2	825	A	C4'-C3'-O3'	-7.35	101.97	113.00
36	B2	1406	G	N9-C1'-C2'	7.35	123.03	112.00
85	A5	1265	G	C4'-C3'-C2'	-7.35	95.25	102.60
85	A5	1472	C	O4'-C1'-C2'	-7.35	100.25	107.60
46	CN	48	ALA	O-C-N	7.35	132.37	122.59
85	A5	2002	A	O4'-C1'-C2'	7.35	113.15	105.80
85	A5	5041	G	O4'-C1'-N9	7.35	119.53	108.50
86	A7	63	C	C5'-C4'-C3'	7.35	127.02	116.00
36	B2	517	C	N1-C1'-C2'	7.35	123.02	112.00
36	B2	1520	G	C1'-C2'-O2'	7.35	119.42	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	995	C	O4'-C1'-C2'	-7.35	100.25	107.60
85	A5	1832	C	O4'-C1'-C2'	-7.35	100.25	107.60
85	A5	2333	G	O4'-C1'-C2'	7.35	114.95	107.60
85	A5	2725	A	O4'-C1'-C2'	-7.35	100.25	107.60
51	CA	67	TYR	CB-CG-CD2	7.35	131.82	120.80
87	A8	61	A	C4'-C3'-O3'	-7.35	101.98	113.00
85	A5	3739	C	O4'-C1'-C2'	-7.34	100.26	107.60
36	B2	38	A	N9-C1'-C2'	-7.34	102.98	114.00
85	A5	332	C	N1-C1'-C2'	7.34	123.01	112.00
85	A5	1606	U	O4'-C1'-C2'	-7.34	100.26	107.60
85	A5	2128	G	N9-C1'-C2'	7.34	123.01	112.00
44	CM	2	VAL	N-CA-C	-7.34	103.46	113.00
74	CC	306	ARG	N-CA-CB	7.34	122.89	110.49
36	B2	830	A	C3'-C2'-C1'	-7.34	93.96	101.30
36	B2	998	A	O4'-C1'-C2'	-7.34	100.26	107.60
36	B2	1511	U	C4'-C3'-C2'	-7.34	95.26	102.60
86	A7	42	A	O4'-C1'-C2'	-7.34	100.26	107.60
36	B2	1348	G	O4'-C1'-N9	7.33	119.50	108.50
85	A5	1267	C	C3'-C2'-C1'	7.33	108.83	101.50
85	A5	2519	U	O4'-C1'-C2'	-7.33	98.47	105.80
85	A5	5049	G	O4'-C1'-N9	7.33	119.20	108.20
12	AR	123	THR	CB-CA-C	-7.33	92.97	109.10
36	B2	1165	G	N9-C1'-C2'	-7.33	103.00	114.00
36	B2	1415	C	O4'-C1'-C2'	-7.33	100.27	107.60
63	CB	236	HIS	CB-CA-C	-7.33	95.83	110.42
85	A5	3783	A	C3'-C2'-C1'	7.33	108.83	101.50
85	A5	4375	C	C3'-C2'-C1'	7.33	108.63	101.30
36	B2	408	A	O4'-C1'-C2'	-7.33	100.27	107.60
36	B2	1494	U	P-O3'-C3'	7.33	131.19	120.20
85	A5	4945	G	N9-C1'-C2'	7.33	123.00	112.00
85	A5	1428	U	P-O3'-C3'	7.33	131.19	120.20
85	A5	1471	U	O4'-C1'-N1	7.33	119.49	108.50
36	B2	1824	A	O4'-C1'-N9	7.33	119.49	108.50
81	CE	225	PRO	CA-C-N	7.33	130.83	120.28
81	CE	225	PRO	C-N-CA	7.33	130.83	120.28
85	A5	220	C	P-O3'-C3'	7.33	131.19	120.20
85	A5	703	G	N9-C1'-C2'	-7.33	103.01	114.00
85	A5	381	U	N1-C1'-C2'	7.32	122.98	112.00
85	A5	3777	G	O4'-C1'-C2'	-7.32	98.48	105.80
36	B2	650	A	O4'-C1'-C2'	-7.32	100.28	107.60
45	Ca	4	ARG	N-CA-C	7.32	119.26	111.28
85	A5	1703	C	P-O3'-C3'	7.32	131.18	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Az	52	GLY	CA-C-N	7.32	135.52	121.54
1	Az	52	GLY	C-N-CA	7.32	135.52	121.54
56	CX	40	ILE	N-CA-CB	7.32	123.31	111.23
85	A5	1747	U	O4'-C1'-C2'	-7.32	100.28	107.60
85	A5	4991	U	C4'-C3'-C2'	-7.32	95.28	102.60
85	A5	276	C	O4'-C1'-C2'	-7.32	100.28	107.60
36	B2	1511	U	N1-C1'-C2'	7.32	122.98	112.00
48	CD	58	ARG	CA-C-N	7.32	135.52	121.54
48	CD	58	ARG	C-N-CA	7.32	135.52	121.54
85	A5	685	C	P-O3'-C3'	7.32	131.18	120.20
85	A5	2093	A	P-O3'-C3'	7.32	131.18	120.20
85	A5	4152	G	N9-C1'-C2'	7.32	122.98	112.00
85	A5	4925	U	C3'-C2'-C1'	7.32	108.62	101.30
36	B2	375	U	P-O5'-C5'	7.32	131.87	120.90
85	A5	264	C	N1-C1'-C2'	7.32	122.97	112.00
85	A5	4896	G	P-O5'-C5'	7.32	131.87	120.90
85	A5	5059	C	O4'-C1'-N1	7.32	119.47	108.50
86	A7	24	C	N1-C1'-C2'	7.32	122.97	112.00
19	AZ	106	GLN	CA-C-N	7.31	129.78	120.56
19	AZ	106	GLN	C-N-CA	7.31	129.78	120.56
85	A5	5027	C	O4'-C1'-C2'	7.31	113.11	105.80
1	Az	123	ASP	CA-C-N	7.31	133.31	121.17
1	Az	123	ASP	C-N-CA	7.31	133.31	121.17
1	Az	194	GLU	N-CA-C	7.31	119.04	111.14
36	B2	1538	C	C4'-C3'-C2'	-7.31	95.29	102.60
52	CS	18	PRO	CA-C-O	-7.31	111.78	122.31
85	A5	1834	U	P-O3'-C3'	7.31	131.17	120.20
85	A5	2235	C	P-O3'-C3'	7.31	131.17	120.20
85	A5	2539	C	N1-C1'-C2'	7.31	122.97	112.00
36	B2	384	U	N1-C1'-C2'	7.31	122.97	112.00
85	A5	1541	C	N1-C1'-C2'	7.31	122.97	112.00
33	AI	29	LEU	CA-C-N	7.31	134.80	120.84
33	AI	29	LEU	C-N-CA	7.31	134.80	120.84
53	CT	67	VAL	O-C-N	-7.31	115.58	123.18
60	Cr	108	MET	N-CA-C	7.31	119.33	111.36
85	A5	4067	U	O4'-C1'-C2'	-7.31	100.29	107.60
60	Cr	82	ILE	N-CA-C	7.31	124.54	109.34
60	Cr	111	ILE	CA-C-N	7.31	130.07	120.28
60	Cr	111	ILE	C-N-CA	7.31	130.07	120.28
85	A5	135	G	O4'-C1'-C2'	-7.31	100.29	107.60
85	A5	988	C	O4'-C1'-C2'	-7.31	100.29	107.60
85	A5	2685	C	O4'-C1'-C2'	-7.31	98.49	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Az	855	LEU	CA-C-N	7.31	135.49	121.54
1	Az	855	LEU	C-N-CA	7.31	135.49	121.54
85	A5	1242	G	P-O5'-C5'	7.30	131.86	120.90
36	B2	67	C	C3'-C2'-C1'	-7.30	94.00	101.30
85	A5	237	G	O4'-C1'-C2'	7.30	114.90	107.60
85	A5	292	G	C1'-O4'-C4'	-7.30	102.60	109.90
85	A5	2399	G	O4'-C1'-C2'	7.30	114.90	107.60
82	CG	33	GLU	N-CA-C	-7.30	95.25	110.80
87	A8	38	U	N1-C1'-C2'	7.30	124.95	114.00
87	A8	90	C	C5'-C4'-C3'	7.30	126.95	116.00
19	AZ	104	ARG	N-CA-C	7.30	126.34	110.80
85	A5	105	A	O4'-C1'-C2'	7.30	114.90	107.60
85	A5	449	C	P-O3'-C3'	7.30	131.15	120.20
85	A5	3674	G	N9-C1'-C2'	7.30	122.94	112.00
85	A5	4963	G	N9-C1'-C2'	7.30	122.95	112.00
85	A5	5034	A	O4'-C1'-N9	7.30	119.45	108.50
36	B2	101	U	O4'-C1'-C2'	-7.29	100.31	107.60
36	B2	209	A	O3'-P-O5'	7.29	114.94	104.00
36	B2	1476	A	N9-C1'-C2'	-7.29	101.06	112.00
36	B2	387	C	N1-C1'-C2'	7.29	122.94	112.00
85	A5	214	G	O4'-C1'-C2'	7.29	114.89	107.60
44	CM	43	THR	O-C-N	-7.29	112.89	122.59
85	A5	2447	U	O4'-C1'-C2'	-7.29	100.31	107.60
36	B2	238	C	O4'-C1'-C2'	-7.29	100.31	107.60
36	B2	1440	C	C3'-C2'-C1'	7.29	108.59	101.30
52	CS	150	ILE	N-CA-C	7.29	124.49	109.34
71	Cj	5	THR	CA-C-N	-7.29	109.23	120.31
71	Cj	5	THR	C-N-CA	-7.29	109.23	120.31
85	A5	4676	G	N9-C1'-C2'	7.29	122.93	112.00
13	AP	18	ARG	CB-CG-CD	7.28	128.05	111.30
36	B2	207	G	N9-C1'-C2'	-7.28	101.07	112.00
85	A5	1070	G	P-O3'-C3'	7.28	131.13	120.20
85	A5	4910	G	C2'-C3'-O3'	7.28	120.42	109.50
87	A8	13	G	N9-C1'-C2'	7.28	122.92	112.00
1	Az	197	SER	N-CA-C	7.28	121.70	110.20
85	A5	4365	C	O4'-C1'-C2'	-7.28	100.32	107.60
85	A5	4656	A	O4'-C1'-C2'	7.28	113.08	105.80
86	A7	37	G	O4'-C1'-C2'	-7.28	100.32	107.60
26	AJ	92	MET	O-C-N	7.28	129.51	121.87
85	A5	4246	G	O4'-C1'-C2'	-7.28	100.32	107.60
23	AD	3	VAL	CA-C-N	7.28	135.44	121.54
23	AD	3	VAL	C-N-CA	7.28	135.44	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1779	U	P-O3'-C3'	-7.28	109.28	120.20
85	A5	2365	C	O4'-C1'-C2'	-7.28	100.32	107.60
23	AD	83	SER	N-CA-CB	7.28	120.93	110.16
36	B2	192	C	C2'-C3'-O3'	-7.28	102.79	113.70
52	CS	117	HIS	CA-CB-CG	-7.28	106.52	113.80
85	A5	648	G	P-O3'-C3'	7.28	131.11	120.20
85	A5	1616	U	O4'-C1'-C2'	-7.27	100.33	107.60
85	A5	2563	C	N1-C1'-C2'	7.27	122.91	112.00
85	A5	1580	C	N1-C1'-C2'	7.27	122.91	112.00
85	A5	1291	G	N9-C1'-C2'	7.27	122.90	112.00
85	A5	1894	C	N1-C1'-C2'	7.27	122.91	112.00
85	A5	2647	A	C4'-C3'-C2'	-7.27	95.33	102.60
85	A5	4121	G	C4'-C3'-O3'	7.27	120.30	109.40
36	B2	1352	G	O4'-C1'-C2'	7.27	114.87	107.60
85	A5	1956	A	O4'-C1'-C2'	-7.27	100.33	107.60
87	A8	11	C	O4'-C1'-C2'	-7.27	100.33	107.60
35	Ah	170	ARG	CA-C-O	-7.27	110.12	120.51
85	A5	1692	C	N1-C1'-C2'	7.27	122.90	112.00
78	Co	3	ASN	CA-C-N	7.26	135.57	122.13
78	Co	3	ASN	C-N-CA	7.26	135.57	122.13
48	CD	261	VAL	N-CA-C	7.26	124.45	109.34
25	Af	146	LEU	N-CA-C	-7.26	106.34	114.62
85	A5	427	A	O4'-C1'-C2'	-7.26	100.34	107.60
85	A5	2471	G	C5'-C4'-O4'	-7.26	98.21	109.10
74	CC	115	VAL	O-C-N	-7.26	113.50	122.57
85	A5	1505	C	C3'-C2'-C1'	7.26	108.56	101.30
85	A5	4236	G	O4'-C1'-C2'	7.26	114.86	107.60
87	A8	106	G	N9-C1'-C2'	7.26	122.89	112.00
85	A5	99	A	C4'-C3'-O3'	-7.26	102.11	113.00
85	A5	5027	C	O4'-C1'-N1	7.26	119.09	108.20
36	B2	194	C	N1-C1'-C2'	7.26	122.89	112.00
47	CI	176	PHE	N-CA-CB	-7.26	98.22	110.49
85	A5	303	C	O4'-C1'-C2'	-7.26	100.34	107.60
85	A5	4872	G	O4'-C1'-N9	7.26	119.08	108.20
70	Ci	6	PRO	N-CD-CG	-7.25	92.32	103.20
2	Ag	196	ASN	N-CA-C	7.25	119.27	111.36
30	AF	41	VAL	N-CA-C	-7.25	94.25	109.34
36	B2	1265	A	C3'-C2'-C1'	7.25	108.75	101.50
68	Cf	57	THR	CA-C-N	7.25	135.03	121.97
68	Cf	57	THR	C-N-CA	7.25	135.03	121.97
85	A5	1326	A	O4'-C1'-C2'	-7.25	100.35	107.60
14	AT	42	HIS	CB-CA-C	-7.25	95.02	110.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Cq	45	MET	N-CA-C	-7.25	101.89	111.24
74	CC	326	LEU	CA-C-N	7.25	130.33	120.54
74	CC	326	LEU	C-N-CA	7.25	130.33	120.54
85	A5	1369	C	O4'-C4'-C3'	-7.25	98.85	106.10
86	A7	4	U	C5'-C4'-C3'	-7.25	105.12	116.00
36	B2	1561	A	O4'-C1'-C2'	-7.25	100.35	107.60
85	A5	462	G	C3'-C2'-C1'	-7.25	94.05	101.30
85	A5	4730	C	O4'-C1'-C2'	-7.25	98.55	105.80
36	B2	1386	A	O4'-C1'-C2'	-7.25	100.35	107.60
85	A5	5054	C	O4'-C1'-N1	7.25	119.07	108.20
36	B2	1046	U	O4'-C1'-C2'	-7.25	100.35	107.60
48	CD	126	THR	N-CA-C	-7.25	104.04	113.17
85	A5	696	C	O4'-C1'-C2'	-7.25	100.35	107.60
85	A5	2294	G	C1'-O4'-C4'	-7.25	102.65	109.90
36	B2	1110	G	O4'-C1'-C2'	-7.25	100.36	107.60
85	A5	4303	C	O4'-C1'-N1	7.25	119.37	108.50
85	A5	1846	G	N9-C1'-C2'	7.24	122.86	112.00
36	B2	286	U	O4'-C1'-N1	-7.24	97.64	108.50
36	B2	1520	G	C1'-O4'-C4'	-7.24	102.66	109.90
85	A5	200	U	C3'-C2'-C1'	7.24	108.54	101.30
6	AX	42	GLY	CA-C-N	-7.24	112.23	122.00
6	AX	42	GLY	C-N-CA	-7.24	112.23	122.00
36	B2	233	C	O4'-C1'-C2'	-7.24	100.36	107.60
4	AK	4	PRO	CA-C-O	-7.24	111.89	122.31
85	A5	940	C	O4'-C1'-C2'	-7.24	100.36	107.60
85	A5	3926	C	N1-C1'-C2'	7.24	122.86	112.00
17	AV	67	ASP	N-CA-C	-7.24	103.33	111.14
85	A5	685	C	C4'-C3'-O3'	7.24	120.25	109.40
85	A5	3651	A	O4'-C1'-C2'	-7.24	100.36	107.60
85	A5	1811	G	O4'-C1'-N9	7.23	119.05	108.20
11	AL	149	ALA	N-CA-C	-7.23	103.56	112.38
74	CC	217	ILE	CB-CA-C	7.23	121.90	112.14
87	A8	54	C	N1-C1'-C2'	7.23	122.85	112.00
52	CS	47	PHE	CA-CB-CG	-7.23	106.57	113.80
85	A5	1533	A	O4'-C1'-C2'	-7.23	98.57	105.80
86	A7	4	U	N1-C1'-C2'	7.23	122.84	112.00
36	B2	794	A	O4'-C1'-C2'	-7.23	100.37	107.60
39	Cq	32	ALA	O-C-N	7.23	133.74	122.61
82	CG	126	GLY	N-CA-C	7.23	125.27	112.55
85	A5	144	G	O4'-C1'-N9	7.23	119.34	108.50
85	A5	1855	G	C1'-O4'-C4'	-7.23	102.67	109.90
81	CE	102	GLY	CA-C-N	-7.23	107.25	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	CE	102	GLY	C-N-CA	-7.23	107.25	121.41
85	A5	1102	U	C1'-O4'-C4'	7.23	117.13	109.90
85	A5	3683	C	O4'-C1'-C2'	-7.23	98.57	105.80
36	B2	160	U	P-O3'-C3'	7.22	131.04	120.20
36	B2	555	A	P-O3'-C3'	7.22	131.04	120.20
38	Cz	25	ARG	CA-C-N	-7.22	107.74	121.54
38	Cz	25	ARG	C-N-CA	-7.22	107.74	121.54
85	A5	1281	G	C2'-C3'-O3'	7.22	120.34	109.50
36	B2	749	U	O4'-C1'-C2'	-7.22	100.38	107.60
36	B2	1642	U	O4'-C1'-N1	7.22	119.33	108.50
56	CX	66	PRO	N-CA-C	-7.22	100.15	111.34
36	B2	1297	U	O4'-C1'-N1	7.22	119.33	108.50
74	CC	33	ARG	CA-C-N	-7.22	111.04	119.05
74	CC	33	ARG	C-N-CA	-7.22	111.04	119.05
1	Az	540	GLU	N-CA-C	-7.22	103.35	111.07
36	B2	60	A	C3'-C2'-C1'	-7.22	94.08	101.30
39	Cq	69	LEU	CA-C-N	7.22	135.32	121.54
39	Cq	69	LEU	C-N-CA	7.22	135.32	121.54
43	CV	45	ILE	N-CA-C	7.22	124.35	109.34
85	A5	100	C	P-O3'-C3'	-7.22	109.38	120.20
27	AE	22	LYS	N-CA-C	7.21	118.93	111.14
36	B2	1397	U	O4'-C1'-N1	-7.21	97.38	108.20
63	CB	358	ARG	N-CA-C	-7.21	103.42	111.28
85	A5	2100	A	P-O3'-C3'	7.21	131.02	120.20
36	B2	854	A	P-O5'-C5'	7.21	131.72	120.90
85	A5	4098	A	O4'-C1'-C2'	-7.21	100.39	107.60
36	B2	1354	G	C2'-C3'-O3'	7.21	124.52	113.70
60	Cr	38	PHE	CA-CB-CG	7.21	121.01	113.80
74	CC	163	LYS	N-CA-CB	7.21	123.75	110.99
85	A5	317	A	O4'-C1'-C2'	-7.21	100.39	107.60
1	Az	745	TYR	CA-CB-CG	-7.21	100.92	113.90
36	B2	1448	A	P-O3'-C3'	7.21	131.02	120.20
85	A5	2938	C	C4'-C3'-O3'	-7.21	99.19	110.00
36	B2	1233	G	O4'-C1'-C2'	7.21	114.81	107.60
36	B2	1829	G	O4'-C1'-C2'	-7.21	100.39	107.60
60	Cr	112	ARG	CA-C-O	7.21	128.19	120.55
82	CG	245	LYS	CB-CA-C	-7.21	98.83	110.79
86	A7	112	U	O4'-C1'-C2'	-7.21	100.39	107.60
36	B2	15	U	O4'-C1'-C2'	-7.21	100.39	107.60
36	B2	1007	C	O4'-C1'-C2'	-7.21	100.39	107.60
85	A5	4417	C	N1-C1'-C2'	7.21	122.81	112.00
36	B2	546	G	O4'-C1'-C2'	-7.21	100.39	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4895	C	O4'-C1'-N1	7.21	119.01	108.20
62	Cb	26	SER	N-CA-C	7.20	126.14	110.80
23	AD	144	GLY	N-CA-C	7.20	124.10	111.14
44	CM	51	PRO	CA-N-CD	-7.20	101.92	112.00
85	A5	2426	U	O4'-C1'-N1	7.20	119.30	108.50
85	A5	4158	C	N1-C1'-C2'	7.20	122.80	112.00
23	AD	52	ALA	O-C-N	-7.20	114.62	123.33
34	AQ	18	THR	CA-C-N	7.20	135.29	121.54
34	AQ	18	THR	C-N-CA	7.20	135.29	121.54
85	A5	425	U	O4'-C1'-N1	7.20	119.30	108.50
36	B2	970	G	C2'-C3'-O3'	7.20	120.30	109.50
85	A5	6	C	C3'-C2'-C1'	7.20	108.50	101.30
1	Az	669	VAL	N-CA-C	7.20	117.90	106.32
85	A5	2804	C	O4'-C1'-C2'	-7.20	100.41	107.60
85	A5	4930	C	N1-C1'-C2'	7.20	122.79	112.00
85	A5	2826	U	N1-C1'-C2'	7.19	122.79	112.00
81	CE	277	LEU	O-C-N	-7.19	114.86	123.13
85	A5	1378	C	P-O5'-C5'	7.19	131.69	120.90
85	A5	4539	U	O4'-C1'-C2'	-7.19	100.41	107.60
85	A5	299	C	N1-C1'-C2'	7.19	122.79	112.00
36	B2	244	A	O4'-C1'-C2'	-7.19	98.61	105.80
34	AQ	116	ASP	N-CA-C	7.19	118.64	108.00
85	A5	5048	A	O4'-C1'-N9	7.19	119.28	108.50
86	A7	121	U	O4'-C1'-C2'	-7.19	100.41	107.60
36	B2	1131	G	O4'-C1'-C2'	-7.19	100.41	107.60
85	A5	2669	C	P-O5'-C5'	7.19	131.68	120.90
36	B2	1028	A	C5'-C4'-C3'	-7.18	105.22	116.00
36	B2	1049	A	C4'-C3'-C2'	-7.18	95.42	102.60
85	A5	445	U	O4'-C1'-N1	7.18	119.28	108.50
85	A5	4669	A	C4'-C3'-O3'	-7.18	102.22	113.00
6	AX	138	LYS	O-C-N	-7.18	114.48	123.17
37	BC	16	C	C4'-C3'-O3'	7.18	120.17	109.40
36	B2	481	C	N1-C1'-C2'	7.18	122.77	112.00
36	B2	581	U	C4'-C3'-O3'	-7.18	102.24	113.00
36	B2	659	G	O4'-C1'-N9	7.18	119.27	108.50
85	A5	4938	A	P-O3'-C3'	7.18	130.96	120.20
48	CD	22	ARG	N-CA-C	-7.17	103.54	111.36
67	Ce	2	ALA	CA-C-N	-7.17	108.68	121.81
67	Ce	2	ALA	C-N-CA	-7.17	108.68	121.81
85	A5	4340	U	O4'-C1'-C2'	-7.17	100.43	107.60
85	A5	4895	C	O4'-C1'-C2'	-7.17	98.63	105.80
16	AA	186	ARG	CA-C-N	7.17	135.47	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	AA	186	ARG	C-N-CA	7.17	135.47	121.41
85	A5	1245	C	N1-C1'-C2'	7.17	122.76	112.00
85	A5	2782	U	O4'-C1'-C2'	-7.17	98.63	105.80
85	A5	5021	C	O4'-C1'-C2'	-7.17	100.43	107.60
36	B2	307	G	C3'-C2'-C1'	-7.17	94.13	101.30
85	A5	1788	A	O4'-C1'-C2'	-7.17	100.43	107.60
69	Cg	27	GLY	N-CA-C	-7.17	106.42	115.31
85	A5	9	C	O4'-C1'-C2'	-7.17	100.43	107.60
87	A8	110	U	C2'-C3'-O3'	-7.17	98.75	109.50
35	Ah	179	MET	N-CA-C	7.17	121.37	108.69
23	AD	207	HIS	N-CA-C	7.16	120.33	109.23
36	B2	237	C	C1'-O4'-C4'	7.16	116.86	109.70
85	A5	2512	A	O4'-C1'-N9	7.16	118.95	108.20
85	A5	4128	A	C2'-C3'-O3'	-7.16	102.96	113.70
86	A7	65	G	P-O3'-C3'	-7.16	109.45	120.20
85	A5	1771	U	O4'-C1'-C2'	-7.16	100.44	107.60
85	A5	1814	C	O4'-C1'-C2'	-7.16	100.44	107.60
85	A5	2330	G	O4'-C1'-C2'	-7.16	100.44	107.60
85	A5	4547	C	O3'-P-O5'	-7.16	93.26	104.00
29	AG	128	THR	N-CA-CB	-7.16	98.39	110.49
36	B2	1658	G	O4'-C1'-C2'	7.16	114.76	107.60
85	A5	1210	C	P-O3'-C3'	7.16	130.94	120.20
85	A5	4593	C	N1-C1'-C2'	7.16	122.73	112.00
36	B2	79	A	O3'-P-O5'	-7.16	93.27	104.00
74	CC	338	ASN	CA-C-N	7.16	135.21	121.54
74	CC	338	ASN	C-N-CA	7.16	135.21	121.54
85	A5	919	C	O4'-C1'-C2'	-7.16	100.44	107.60
29	AG	180	VAL	N-CA-C	7.15	124.22	109.34
68	Cf	65	ASN	N-CA-CB	7.15	122.58	110.49
85	A5	2127	C	O4'-C1'-C2'	-7.15	100.45	107.60
53	CT	3	ASN	CB-CA-C	-7.15	96.19	110.42
74	CC	287	THR	O-C-N	-7.15	113.08	122.59
37	BC	47	C	C3'-C2'-C1'	7.15	108.65	101.50
36	B2	378	U	C4'-C3'-C2'	-7.15	95.45	102.60
37	BC	33	C	O4'-C1'-C2'	-7.15	100.45	107.60
54	CP	92	LEU	N-CA-C	-7.15	103.49	111.28
85	A5	2626	U	O3'-P-O5'	-7.15	93.28	104.00
85	A5	4540	C	O4'-C1'-C2'	-7.15	100.45	107.60
1	Az	103	ILE	N-CA-C	7.14	118.58	108.36
23	AD	96	LEU	O-C-N	-7.14	113.56	122.35
52	CS	59	GLY	CA-C-N	-7.14	110.15	121.87
52	CS	59	GLY	C-N-CA	-7.14	110.15	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1784	G	N9-C1'-C2'	7.14	122.71	112.00
39	Cq	150	GLY	CA-C-N	-7.14	106.32	121.32
39	Cq	150	GLY	C-N-CA	-7.14	106.32	121.32
85	A5	2369	U	P-O3'-C3'	7.14	130.91	120.20
85	A5	2594	C	N1-C1'-C2'	7.14	122.71	112.00
36	B2	1459	G	N9-C1'-C2'	7.14	122.71	112.00
85	A5	1303	A	P-O3'-C3'	7.14	130.91	120.20
36	B2	1001	A	O4'-C1'-C2'	-7.14	98.66	105.80
36	B2	1345	G	O4'-C1'-C2'	-7.14	100.46	107.60
85	A5	1219	G	C1'-O4'-C4'	-7.14	102.76	109.90
85	A5	3670	C	N1-C1'-C2'	7.14	122.71	112.00
69	Cg	39	GLY	CA-C-N	-7.14	110.65	122.21
69	Cg	39	GLY	C-N-CA	-7.14	110.65	122.21
87	A8	94	G	C2'-C3'-O3'	7.14	120.21	109.50
36	B2	784	G	O3'-P-O5'	-7.14	93.29	104.00
40	CK	143	VAL	N-CA-C	7.14	118.41	107.99
55	CU	60	VAL	CB-CA-C	7.14	122.99	111.29
36	B2	574	A	C3'-C2'-C1'	7.13	108.43	101.30
36	B2	964	A	O4'-C1'-C2'	-7.13	100.47	107.60
36	B2	1476	A	C1'-O4'-C4'	7.13	117.03	109.90
85	A5	3894	A	O4'-C1'-C2'	-7.13	100.47	107.60
85	A5	4900	C	C3'-C2'-C1'	7.13	108.64	101.50
56	CX	68	ARG	N-CA-C	7.13	120.15	108.52
85	A5	4395	U	O4'-C4'-C3'	-7.13	98.97	106.10
1	Az	793	SER	CA-C-N	-7.13	106.34	121.32
1	Az	793	SER	C-N-CA	-7.13	106.34	121.32
2	Ag	92	LEU	CA-C-N	7.13	130.55	120.28
2	Ag	92	LEU	C-N-CA	7.13	130.55	120.28
36	B2	1432	U	C3'-C2'-C1'	7.13	108.43	101.30
86	A7	10	C	C1'-C2'-O2'	-7.13	101.10	111.80
85	A5	1634	A	C3'-C2'-C1'	7.13	108.43	101.30
36	B2	123	G	C4'-C3'-O3'	-7.13	102.31	113.00
36	B2	853	C	P-O3'-C3'	-7.13	109.51	120.20
85	A5	2303	C	O4'-C1'-C2'	-7.13	100.47	107.60
85	A5	3605	C	P-O3'-C3'	7.13	130.89	120.20
85	A5	3893	C	O4'-C1'-C2'	-7.13	100.47	107.60
85	A5	3968	U	O3'-P-O5'	7.13	114.69	104.00
85	A5	2018	C	O4'-C1'-C2'	-7.12	100.47	107.60
85	A5	3814	U	N1-C1'-C2'	7.12	122.69	112.00
1	Az	122	THR	N-CA-CB	-7.12	97.60	109.28
29	AG	79	LYS	N-CA-C	-7.12	100.66	110.35
85	A5	1568	C	O4'-C1'-C2'	-7.12	100.48	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2025	A	O4'-C1'-C2'	-7.12	98.68	105.80
18	AY	96	LEU	N-CA-CB	7.12	122.52	110.49
36	B2	65	C	O4'-C1'-C2'	-7.12	100.48	107.60
85	A5	391	U	N1-C1'-C2'	7.12	122.68	112.00
85	A5	1101	C	O4'-C1'-C2'	-7.12	100.48	107.60
5	AO	43	HIS	CA-C-N	-7.12	110.23	121.62
5	AO	43	HIS	C-N-CA	-7.12	110.23	121.62
36	B2	448	A	O4'-C1'-N9	7.12	118.88	108.20
85	A5	388	A	O4'-C1'-C2'	-7.12	100.48	107.60
85	A5	2661	U	C2'-C3'-O3'	7.12	120.18	109.50
85	A5	2677	G	N9-C1'-C2'	7.12	122.68	112.00
28	AC	256	TRP	O-C-N	-7.12	114.09	122.20
85	A5	4767	C	C5'-C4'-C3'	7.12	126.68	116.00
85	A5	4906	C	C3'-C2'-C1'	7.12	108.42	101.30
12	AR	25	GLY	O-C-N	7.12	130.83	123.29
36	B2	197	U	O4'-C1'-N1	7.12	119.17	108.50
85	A5	2085	G	O4'-C1'-N9	7.12	119.17	108.50
85	A5	3631	U	O4'-C1'-C2'	-7.12	100.48	107.60
36	B2	442	C	N1-C1'-C2'	7.11	122.67	112.00
69	Cg	45	ALA	O-C-N	-7.11	113.13	122.59
87	A8	64	U	O4'-C1'-C2'	-7.11	100.49	107.60
31	AH	118	ARG	CA-C-O	7.11	128.00	119.61
66	Cd	112	THR	CB-CA-C	-7.11	96.27	110.42
72	Ck	64	LEU	CA-C-N	7.11	135.26	121.18
72	Ck	64	LEU	C-N-CA	7.11	135.26	121.18
16	AA	68	ILE	CA-C-N	-7.11	110.77	120.44
16	AA	68	ILE	C-N-CA	-7.11	110.77	120.44
24	Ae	21	LYS	CA-C-N	7.11	135.12	121.54
24	Ae	21	LYS	C-N-CA	7.11	135.12	121.54
36	B2	991	G	O4'-C1'-C2'	7.11	114.71	107.60
35	Ah	162	ILE	CA-CB-CG2	7.11	122.58	110.50
81	CE	223	ARG	N-CA-C	-7.11	100.00	110.52
13	AP	13	ARG	N-CA-C	-7.11	105.53	114.56
85	A5	481	G	C1'-O4'-C4'	-7.11	102.79	109.90
85	A5	4640	C	N1-C1'-C2'	7.11	122.66	112.00
20	Aa	98	PRO	CA-C-N	7.11	128.72	119.84
20	Aa	98	PRO	C-N-CA	7.11	128.72	119.84
36	B2	857	U	N1-C1'-C2'	7.11	122.66	112.00
65	Cc	27	TYR	CB-CA-C	-7.11	94.83	110.67
85	A5	2709	C	O4'-C1'-C2'	-7.11	100.50	107.60
85	A5	4966	A	N9-C1'-C2'	7.11	122.66	112.00
29	AG	121	ILE	N-CA-CB	7.10	121.16	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	698	G	C2'-C3'-O3'	7.10	120.16	109.50
85	A5	4629	U	O4'-C1'-N1	7.10	119.16	108.50
36	B2	737	G	C1'-O4'-C4'	7.10	117.00	109.90
36	B2	827	A	N9-C1'-C2'	7.10	122.66	112.00
58	CW	83	THR	CA-CB-CG2	7.10	122.58	110.50
85	A5	4093	G	O4'-C1'-N9	7.10	119.15	108.50
36	B2	1162	C	O4'-C1'-C2'	-7.10	100.50	107.60
2	Ag	276	SER	N-CA-CB	-7.10	107.00	114.10
7	AM	75	ASN	CA-CB-CG	-7.10	105.50	112.60
36	B2	522	A	P-O5'-C5'	7.10	131.55	120.90
85	A5	48	G	P-O3'-C3'	7.10	130.85	120.20
8	AS	8	LYS	CA-C-N	7.10	130.28	120.63
8	AS	8	LYS	C-N-CA	7.10	130.28	120.63
85	A5	1830	G	C1'-O4'-C4'	-7.10	102.80	109.90
85	A5	2102	G	P-O3'-C3'	7.10	130.84	120.20
85	A5	4080	C	O4'-C1'-C2'	-7.10	100.50	107.60
85	A5	4336	A	C4'-C3'-O3'	7.10	123.64	113.00
33	AI	125	LYS	N-CA-C	7.09	119.95	109.24
85	A5	1539	G	C2'-C3'-O3'	-7.09	103.06	113.70
4	AK	89	ILE	CA-CB-CG1	-7.09	98.34	110.40
36	B2	147	A	O4'-C1'-N9	7.09	118.84	108.20
85	A5	2585	C	O4'-C1'-N1	7.09	118.84	108.20
85	A5	2683	C	O4'-C1'-C2'	-7.09	100.51	107.60
85	A5	27	C	C3'-C2'-C1'	7.09	108.39	101.30
85	A5	2043	A	O4'-C1'-N9	7.09	119.14	108.50
26	AJ	180	LYS	CB-CA-C	-7.09	95.71	110.17
85	A5	4349	C	C2'-C3'-O3'	7.09	120.14	109.50
35	Ah	170	ARG	O-C-N	-7.09	113.16	122.59
85	A5	5002	U	O4'-C1'-N1	7.09	119.13	108.50
36	B2	162	C	C2'-C3'-O3'	-7.09	103.07	113.70
60	Cr	73	PRO	N-CA-C	-7.09	103.19	113.75
85	A5	2853	C	N1-C1'-C2'	7.09	122.63	112.00
85	A5	21	G	N9-C1'-C2'	-7.08	101.37	112.00
85	A5	3781	C	O4'-C1'-C2'	-7.08	100.52	107.60
23	AD	167	TYR	N-CA-C	7.08	120.40	111.69
36	B2	828	G	C3'-C2'-C1'	-7.08	94.22	101.30
36	B2	1830	U	C3'-C2'-C1'	7.08	108.58	101.50
40	CK	129	ILE	O-C-N	-7.08	112.34	122.12
68	Cf	55	ASN	CA-CB-CG	7.08	119.68	112.60
85	A5	1822	U	O4'-C1'-C2'	7.08	114.68	107.60
85	A5	3921	U	N1-C1'-C2'	7.08	122.62	112.00
85	A5	4461	C	C3'-C2'-C1'	7.08	108.38	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	AL	56	ILE	N-CA-C	7.08	118.40	111.67
36	B2	1621	U	O4'-C1'-N1	7.08	118.82	108.20
48	CD	186	GLU	CA-C-N	7.08	135.06	121.54
48	CD	186	GLU	C-N-CA	7.08	135.06	121.54
85	A5	1439	C	O4'-C1'-C2'	-7.08	98.72	105.80
85	A5	1577	G	P-O3'-C3'	-7.08	109.58	120.20
85	A5	2362	U	O4'-C1'-N1	7.08	119.12	108.50
85	A5	4738	C	N1-C1'-C2'	7.08	122.62	112.00
15	AB	75	GLN	CA-C-N	7.08	132.18	122.34
15	AB	75	GLN	C-N-CA	7.08	132.18	122.34
36	B2	1867	U	C3'-C2'-C1'	-7.08	94.42	101.50
64	CF	21	LYS	CA-C-N	7.08	134.44	121.70
64	CF	21	LYS	C-N-CA	7.08	134.44	121.70
4	AK	45	VAL	O-C-N	-7.08	114.97	121.91
85	A5	142	G	C1'-O4'-C4'	-7.08	102.62	109.70
85	A5	1979	A	O4'-C1'-C2'	-7.08	100.52	107.60
85	A5	3850	C	O4'-C1'-C2'	-7.08	100.52	107.60
20	Aa	98	PRO	C-N-CD	-7.08	95.99	125.00
31	AH	111	LYS	N-CA-CB	7.08	127.58	110.32
36	B2	550	C	O4'-C1'-C2'	-7.08	100.52	107.60
69	Cg	85	LYS	N-CA-C	-7.08	103.65	111.36
85	A5	58	G	O4'-C1'-N9	7.08	118.81	108.20
87	A8	65	A	C1'-O4'-C4'	-7.07	102.83	109.90
2	Ag	237	ASN	CA-CB-CG	-7.07	105.53	112.60
17	AV	31	SER	N-CA-CB	-7.07	98.20	111.00
85	A5	2495	U	O4'-C1'-C2'	-7.07	100.53	107.60
85	A5	3622	C	C3'-C2'-C1'	7.07	108.37	101.30
64	CF	110	GLN	CA-C-O	7.07	128.24	120.82
15	AB	133	TYR	N-CA-CB	-7.07	98.45	109.69
36	B2	1726	G	O4'-C1'-N9	7.07	119.10	108.50
85	A5	3967	G	N9-C1'-C2'	7.07	122.60	112.00
85	A5	4308	C	C3'-C2'-C1'	7.07	108.37	101.30
87	A8	127	U	P-O3'-C3'	7.07	130.80	120.20
36	B2	1130	G	N9-C1'-C2'	-7.07	101.40	112.00
85	A5	1089	G	C3'-C2'-C1'	-7.07	94.23	101.30
85	A5	3881	G	O4'-C1'-N9	7.07	118.80	108.20
14	AT	70	ALA	CA-C-N	7.06	127.75	121.82
14	AT	70	ALA	C-N-CA	7.06	127.75	121.82
42	CL	130	LYS	CB-CA-C	7.06	124.08	110.17
63	CB	35	ASP	CA-C-O	-7.06	111.59	119.78
36	B2	305	U	P-O3'-C3'	-7.06	109.61	120.20
49	CQ	11	ARG	CA-C-O	7.06	130.61	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	CT	132	PRO	N-CA-C	-7.06	100.84	111.57
85	A5	133	C	N1-C1'-C2'	7.06	122.59	112.00
29	AG	156	TYR	N-CA-C	7.06	121.12	107.71
36	B2	183	G	C4'-C3'-C2'	-7.06	95.54	102.60
36	B2	1007	C	C3'-C2'-C1'	7.06	108.36	101.30
81	CE	156	ARG	N-CA-C	-7.06	103.59	111.71
85	A5	2706	G	O4'-C1'-C2'	7.06	114.66	107.60
85	A5	4217	G	N9-C1'-C2'	7.06	122.59	112.00
27	AE	151	ASP	CA-C-O	7.06	127.51	119.61
56	CX	51	THR	CA-C-N	-7.06	109.68	121.39
56	CX	51	THR	C-N-CA	-7.06	109.68	121.39
85	A5	3824	A	O4'-C1'-C2'	-7.05	100.55	107.60
85	A5	5068	G	O4'-C1'-N9	7.05	119.08	108.50
36	B2	1760	G	O4'-C1'-N9	7.05	119.08	108.50
85	A5	652	G	C3'-C2'-C1'	-7.05	94.25	101.30
85	A5	2397	G	O4'-C1'-N9	7.05	118.78	108.20
1	Az	73	THR	N-CA-C	7.05	125.82	110.80
3	AU	108	PRO	CB-CA-C	-7.05	101.75	110.98
31	AH	16	PRO	CA-C-N	7.05	135.00	121.54
31	AH	16	PRO	C-N-CA	7.05	135.00	121.54
34	AQ	124	PRO	CB-CA-C	-7.05	101.98	112.55
36	B2	316	G	P-O5'-C5'	7.05	131.47	120.90
36	B2	1255	G	N9-C1'-C2'	7.05	122.58	112.00
85	A5	146	G	C1'-O4'-C4'	-7.05	102.85	109.90
74	CC	253	THR	CA-C-N	7.05	130.02	120.44
74	CC	253	THR	C-N-CA	7.05	130.02	120.44
85	A5	366	A	O4'-C1'-C2'	-7.05	100.55	107.60
85	A5	927	G	C2'-C3'-O3'	7.05	120.07	109.50
85	A5	4462	C	O3'-P-O5'	-7.05	93.43	104.00
36	B2	1519	U	O4'-C1'-N1	7.04	118.77	108.20
52	CS	153	PRO	CB-CA-C	-7.04	99.94	111.56
81	CE	37	PRO	N-CA-CB	7.04	110.35	102.60
85	A5	934	C	P-O3'-C3'	7.04	130.77	120.20
85	A5	1406	G	N9-C1'-C2'	-7.04	101.43	112.00
85	A5	2128	G	C1'-O4'-C4'	-7.04	102.86	109.90
36	B2	164	A	N9-C1'-C2'	7.04	122.57	112.00
85	A5	4256	A	C3'-C2'-C1'	-7.04	94.26	101.30
26	AJ	34	GLU	O-C-N	7.04	130.46	122.22
64	CF	183	GLY	N-CA-C	-7.04	96.49	113.18
85	A5	3845	A	C4'-C3'-O3'	-7.04	102.44	113.00
85	A5	4126	C	O4'-C1'-C2'	-7.04	100.56	107.60
37	BC	65	C	C3'-C2'-C1'	7.04	108.34	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	Cz	209	THR	N-CA-C	-7.04	95.80	110.80
85	A5	1265	G	C1'-O4'-C4'	-7.04	102.86	109.90
85	A5	1523	A	N9-C1'-C2'	7.04	122.56	112.00
36	B2	1082	A	O4'-C1'-C2'	-7.04	100.56	107.60
85	A5	4894	A	C1'-C2'-O2'	7.04	118.96	108.40
36	B2	342	C	O4'-C1'-C2'	-7.04	100.56	107.60
36	B2	609	U	O4'-C1'-C2'	-7.04	100.56	107.60
37	BC	27	U	O4'-C1'-N1	7.04	119.06	108.50
85	A5	732	A	P-O5'-C5'	7.04	131.46	120.90
4	AK	3	MET	CA-C-N	7.04	127.99	120.11
4	AK	3	MET	C-N-CA	7.04	127.99	120.11
36	B2	1069	U	P-O3'-C3'	7.04	130.75	120.20
36	B2	1637	A	N9-C1'-C2'	-7.04	103.45	114.00
36	B2	1859	A	C4'-C3'-O3'	-7.04	102.45	113.00
42	CL	159	ASN	N-CA-C	7.04	119.95	108.55
85	A5	3650	C	N1-C1'-C2'	7.04	122.55	112.00
36	B2	1544	C	O4'-C1'-C2'	-7.03	100.57	107.60
85	A5	1102	U	N1-C1'-C2'	-7.03	101.45	112.00
85	A5	1346	C	C3'-C2'-C1'	7.03	108.33	101.30
85	A5	1790	U	O4'-C1'-N1	7.03	119.05	108.50
85	A5	2591	A	C2'-C3'-O3'	-7.03	103.15	113.70
85	A5	5056	A	N9-C1'-C2'	7.03	122.55	112.00
1	Az	664	ASP	CA-C-N	7.03	132.17	120.64
1	Az	664	ASP	C-N-CA	7.03	132.17	120.64
30	AF	82	ASN	CA-CB-CG	-7.03	105.57	112.60
36	B2	1781	A	P-O5'-C5'	7.03	131.45	120.90
85	A5	1830	G	O4'-C1'-C2'	7.03	114.63	107.60
85	A5	2109	G	C1'-O4'-C4'	-7.03	102.87	109.90
87	A8	6	C	O4'-C1'-C2'	-7.03	100.57	107.60
36	B2	1072	U	C1'-O4'-C4'	7.03	116.93	109.90
46	CN	80	THR	CA-C-O	7.03	130.56	120.51
85	A5	2087	C	N1-C1'-C2'	7.03	122.54	112.00
85	A5	4729	A	C5'-C4'-C3'	7.03	125.74	115.20
36	B2	488	U	O4'-C1'-N1	7.03	119.04	108.50
1	Az	55	ARG	CA-C-N	7.02	134.95	121.54
1	Az	55	ARG	C-N-CA	7.02	134.95	121.54
44	CM	41	PRO	CA-C-N	-7.02	108.13	121.54
44	CM	41	PRO	C-N-CA	-7.02	108.13	121.54
56	CX	60	TYR	N-CA-C	-7.02	96.95	108.82
85	A5	503	C	N1-C1'-C2'	7.02	122.53	112.00
85	A5	1513	U	O4'-C1'-N1	7.02	119.03	108.50
85	A5	2622	G	O4'-C1'-C2'	-7.02	100.58	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1485	C	P-O3'-C3'	7.02	130.73	120.20
85	A5	1948	G	C1'-O4'-C4'	-7.02	102.88	109.90
36	B2	1389	C	P-O5'-C5'	7.02	131.43	120.90
80	CH	150	ASP	CA-C-O	7.02	127.81	120.30
36	B2	22	A	O4'-C1'-C2'	-7.02	100.58	107.60
36	B2	211	G	P-O5'-C5'	7.02	131.43	120.90
36	B2	1116	C	O4'-C1'-C2'	7.02	112.82	105.80
37	BC	54	U	O4'-C1'-C2'	-7.02	100.58	107.60
85	A5	437	G	O4'-C1'-C2'	7.02	114.62	107.60
85	A5	3927	U	O4'-C1'-N1	7.02	119.03	108.50
40	CK	28	LEU	N-CA-CB	7.01	122.34	110.49
85	A5	305	A	O4'-C1'-C2'	-7.01	100.58	107.60
85	A5	1856	C	O4'-C1'-C2'	-7.01	100.59	107.60
85	A5	4565	C	P-O5'-C5'	7.01	131.42	120.90
36	B2	182	C	N1-C1'-C2'	7.01	122.52	112.00
36	B2	787	G	O4'-C1'-C2'	-7.01	100.59	107.60
38	Cz	40	ASN	CA-CB-CG	-7.01	105.59	112.60
85	A5	2112	G	N9-C1'-C2'	7.01	122.52	112.00
85	A5	2443	G	C1'-O4'-C4'	-7.01	102.89	109.90
11	AL	30	LYS	N-CA-C	7.01	119.00	111.36
36	B2	620	G	O4'-C1'-C2'	-7.01	100.59	107.60
36	B2	1015	U	O4'-C1'-N1	7.01	119.01	108.50
85	A5	1292	C	C4'-C3'-O3'	-7.01	102.48	113.00
81	CE	78	SER	CA-C-N	7.01	134.31	121.70
81	CE	78	SER	C-N-CA	7.01	134.31	121.70
85	A5	636	G	O4'-C1'-N9	7.01	119.01	108.50
85	A5	1573	G	N9-C1'-C2'	7.01	122.51	112.00
45	Ca	46	ASP	CA-C-O	-7.00	112.62	120.54
36	B2	279	G	C4'-C3'-O3'	-7.00	102.50	113.00
85	A5	1078	A	O4'-C1'-C2'	-7.00	100.60	107.60
85	A5	1870	C	C3'-C2'-C1'	7.00	108.30	101.30
85	A5	116	G	O4'-C1'-C2'	-7.00	98.80	105.80
85	A5	1661	C	N1-C1'-C2'	7.00	122.50	112.00
85	A5	3974	G	C5'-C4'-C3'	7.00	126.50	116.00
85	A5	1933	G	N9-C1'-C2'	7.00	122.50	112.00
54	CP	4	TYR	N-CA-C	-7.00	104.62	113.72
63	CB	236	HIS	N-CA-C	-7.00	95.89	110.80
85	A5	143	C	O4'-C1'-C2'	-7.00	98.80	105.80
21	Ab	52	THR	O-C-N	7.00	131.12	122.86
36	B2	1453	C	O4'-C1'-N1	7.00	118.99	108.50
36	B2	1866	A	C4'-C3'-O3'	-7.00	102.50	113.00
85	A5	1987	C	O4'-C1'-C2'	-7.00	100.60	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4505	C	N1-C1'-C2'	7.00	122.49	112.00
36	B2	544	G	O4'-C1'-C2'	-6.99	100.61	107.60
87	A8	9	A	C3'-C2'-C1'	6.99	108.29	101.30
48	CD	260	GLU	CB-CA-C	6.99	124.33	110.42
85	A5	2766	A	O4'-C1'-N9	6.99	118.69	108.20
85	A5	53	C	C1'-O4'-C4'	-6.99	102.91	109.90
85	A5	1645	C	N1-C1'-C2'	6.99	122.49	112.00
85	A5	3594	C	C1'-C2'-O2'	6.99	118.89	108.40
85	A5	3604	A	C3'-C2'-C1'	-6.99	94.31	101.30
81	CE	177	GLY	N-CA-C	-6.99	98.08	112.34
36	B2	548	C	N1-C1'-C2'	6.99	122.48	112.00
36	B2	1775	U	O4'-C1'-N1	6.99	118.98	108.50
85	A5	1426	G	C5'-C4'-O4'	-6.99	99.32	109.80
85	A5	4363	A	O4'-C1'-C2'	-6.99	100.61	107.60
36	B2	987	A	P-O5'-C5'	-6.99	110.42	120.90
85	A5	2706	G	C1'-O4'-C4'	-6.99	102.92	109.90
85	A5	4288	C	C3'-C2'-C1'	6.99	108.28	101.30
85	A5	4375	C	N1-C1'-C2'	6.99	122.48	112.00
36	B2	1650	A	O4'-C1'-C2'	-6.98	100.62	107.60
85	A5	2816	G	N9-C1'-C2'	6.98	122.48	112.00
85	A5	4447	C	O4'-C1'-C2'	-6.98	100.62	107.60
36	B2	689	U	P-O3'-C3'	-6.98	109.73	120.20
48	CD	186	GLU	CA-C-O	6.98	130.50	120.51
85	A5	2759	G	C3'-C2'-C1'	6.98	108.28	101.30
20	Aa	26	CYS	N-CA-C	-6.98	104.57	113.23
36	B2	689	U	O3'-P-O5'	-6.98	93.53	104.00
36	B2	1233	G	C1'-O4'-C4'	-6.98	102.92	109.90
67	Ce	17	THR	N-CA-C	-6.98	104.03	114.64
36	B2	285	U	C3'-C2'-C1'	6.98	108.28	101.30
85	A5	4928	C	C3'-C2'-C1'	6.98	108.28	101.30
2	Ag	143	GLN	N-CA-C	-6.98	95.94	110.80
36	B2	1661	A	N9-C1'-C2'	6.98	122.47	112.00
74	CC	249	PHE	O-C-N	6.98	131.87	122.59
85	A5	413	G	O4'-C1'-N9	6.98	118.67	108.20
85	A5	2077	C	O4'-C1'-C2'	-6.98	100.62	107.60
85	A5	5025	C	P-O3'-C3'	-6.98	109.73	120.20
46	CN	198	LEU	N-CA-C	6.97	120.85	109.76
69	Cg	28	ASN	N-CA-C	-6.97	99.08	113.31
81	CE	36	LYS	C-N-CD	-6.97	105.26	120.60
34	AQ	17	LYS	O-C-N	-6.97	113.31	122.59
64	CF	110	GLN	N-CA-C	6.97	118.53	111.07
20	Aa	100	ARG	N-CA-C	6.97	122.20	112.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	352	U	C5'-C4'-C3'	-6.97	105.55	116.00
26	AJ	85	GLY	CA-C-N	-6.97	110.53	120.42
26	AJ	85	GLY	C-N-CA	-6.97	110.53	120.42
85	A5	2255	C	N1-C1'-C2'	6.97	124.45	114.00
4	AK	3	MET	O-C-N	6.96	129.33	121.32
36	B2	886	A	O3'-P-O5'	6.96	114.45	104.00
49	CQ	9	LYS	O-C-N	6.96	130.73	122.79
85	A5	1437	C	C1'-O4'-C4'	6.96	116.86	109.90
36	B2	566	U	O4'-C1'-N1	6.96	118.94	108.50
63	CB	320	PHE	CA-CB-CG	-6.96	106.84	113.80
70	Ci	103	LYS	CA-C-O	-6.96	108.97	120.80
85	A5	1447	C	C4'-C3'-C2'	-6.96	95.64	102.60
85	A5	2110	C	C3'-C2'-C1'	6.96	108.46	101.50
85	A5	4942	C	O4'-C1'-C2'	6.96	112.76	105.80
64	CF	223	LYS	CA-C-N	-6.96	108.96	121.14
64	CF	223	LYS	C-N-CA	-6.96	108.96	121.14
85	A5	4335	C	N1-C1'-C2'	6.96	124.44	114.00
85	A5	3591	C	O4'-C1'-C2'	-6.96	100.64	107.60
22	Ac	68	LEU	CA-C-O	-6.96	108.97	120.80
36	B2	1507	G	O4'-C1'-N9	6.96	118.64	108.20
44	CM	139	SER	CA-C-O	-6.96	108.97	120.80
85	A5	276	C	C3'-C2'-C1'	6.96	108.26	101.30
85	A5	1258	G	O4'-C1'-C2'	-6.96	100.64	107.60
85	A5	1483	C	C3'-C2'-C1'	6.96	108.26	101.30
23	AD	11	PHE	CA-CB-CG	-6.96	106.84	113.80
36	B2	291	G	N9-C1'-C2'	6.96	122.43	112.00
69	Cg	115	LYS	CA-C-O	-6.96	108.98	120.80
85	A5	1634	A	O4'-C1'-C2'	-6.96	100.64	107.60
16	AA	209	GLU	CA-C-O	-6.95	108.98	120.80
74	CC	206	GLY	CA-C-N	-6.95	113.14	120.03
74	CC	206	GLY	C-N-CA	-6.95	113.14	120.03
85	A5	145	G	O4'-C4'-C3'	-6.95	97.05	104.00
85	A5	3663	A	P-O5'-C5'	6.95	131.33	120.90
87	A8	38	U	C3'-C2'-C1'	6.95	108.45	101.50
26	AJ	145	PRO	CA-C-N	-6.95	109.73	122.31
26	AJ	145	PRO	C-N-CA	-6.95	109.73	122.31
36	B2	558	G	O4'-C1'-N9	6.95	118.92	108.50
83	Cs	63	VAL	CA-C-O	-6.95	108.98	120.80
85	A5	972	C	C1'-O4'-C4'	6.95	116.85	109.90
85	A5	2084	C	O4'-C1'-C2'	-6.95	100.65	107.60
1	Az	405	SER	N-CA-C	-6.95	104.77	113.18
16	AA	50	ASN	CA-C-N	-6.95	110.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	AA	50	ASN	C-N-CA	-6.95	110.27	120.28
29	AG	237	LEU	CA-C-O	-6.95	108.99	120.80
36	B2	171	A	N9-C1'-C2'	-6.95	103.58	114.00
36	B2	780	U	P-O3'-C3'	6.95	130.62	120.20
36	B2	893	U	O4'-C1'-N1	6.95	118.92	108.50
36	B2	1276	A	C3'-C2'-C1'	6.95	108.25	101.30
36	B2	1509	U	O3'-P-O5'	-6.95	93.58	104.00
62	Cb	54	LEU	CA-CB-CG	6.95	140.62	116.30
80	CH	191	ASP	CA-C-O	-6.95	108.99	120.80
85	A5	2301	G	O4'-C1'-C2'	6.95	114.55	107.60
85	A5	4921	C	C3'-C2'-C1'	6.95	108.25	101.30
47	CI	104	SER	N-CA-C	6.95	125.60	110.80
66	Cd	124	GLU	CA-C-O	-6.95	108.99	120.80
85	A5	504	G	C1'-O4'-C4'	-6.95	102.95	109.90
85	A5	4958	C	O4'-C1'-C2'	-6.95	100.65	107.60
18	AY	62	THR	CA-C-N	-6.95	108.27	121.54
18	AY	62	THR	C-N-CA	-6.95	108.27	121.54
28	AC	278	THR	CA-C-O	-6.95	108.99	120.80
31	AH	16	PRO	O-C-N	-6.95	113.26	122.64
36	B2	1206	G	N9-C1'-C2'	6.95	122.42	112.00
36	B2	1515	G	O4'-C1'-N9	6.95	118.92	108.50
62	Cb	79	LYS	CA-C-O	-6.95	108.99	120.80
85	A5	113	A	P-O5'-C5'	-6.95	110.48	120.90
85	A5	1913	C	O4'-C1'-C2'	-6.95	100.65	107.60
85	A5	4691	A	C4'-C3'-O3'	-6.95	102.58	113.00
36	B2	951	C	N1-C1'-C2'	6.94	122.42	112.00
39	Cq	284	ALA	CA-C-O	-6.94	109.00	120.80
54	CP	153	LYS	CA-C-O	-6.94	109.00	120.80
57	CY	134	LYS	CA-C-O	-6.94	109.00	120.80
67	Ce	133	GLU	CA-C-O	-6.94	109.00	120.80
71	Cj	91	VAL	CA-C-O	-6.94	109.00	120.80
85	A5	1454	G	O4'-C1'-N9	6.94	118.91	108.50
85	A5	1696	C	O4'-C1'-C2'	-6.94	100.66	107.60
85	A5	4075	U	O4'-C1'-N1	6.94	118.61	108.20
2	Ag	314	ILE	CA-C-O	-6.94	109.00	120.80
23	AD	227	LYS	CA-C-O	-6.94	109.00	120.80
36	B2	909	G	P-O3'-C3'	-6.94	109.79	120.20
47	CI	168	SER	O-C-N	-6.94	114.88	122.79
55	CU	126	ASP	CA-C-O	-6.94	109.00	120.80
82	CG	137	ARG	O-C-N	-6.94	115.12	123.10
85	A5	40	G	N9-C1'-C2'	6.94	122.41	112.00
83	Ct	63	VAL	CA-C-O	-6.94	109.00	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1724	G	C2'-C3'-O3'	6.94	119.91	109.50
85	A5	2710	C	O4'-C1'-C2'	-6.94	100.66	107.60
26	AJ	137	VAL	CA-C-N	6.94	134.79	121.54
26	AJ	137	VAL	C-N-CA	6.94	134.79	121.54
49	CQ	13	VAL	N-CA-C	6.94	117.22	107.37
74	CC	371	VAL	CA-C-O	-6.94	109.00	120.80
84	Cv	56	ALA	CA-C-O	-6.94	109.00	120.80
85	A5	4410	G	O4'-C1'-C2'	-6.94	100.66	107.60
85	A5	4900	C	C2'-C3'-O3'	6.94	119.91	109.50
35	Ah	303	LYS	CA-C-O	-6.94	109.01	120.80
36	B2	452	G	C3'-C2'-C1'	6.94	108.24	101.30
84	Cu	56	ALA	CA-C-O	-6.94	109.01	120.80
85	A5	82	U	O4'-C1'-N1	6.94	118.90	108.50
85	A5	1757	U	C5'-C4'-O4'	-6.94	99.40	109.80
85	A5	4300	U	C1'-O4'-C4'	-6.94	102.96	109.90
30	AF	135	ARG	CB-CA-C	6.93	122.45	110.45
31	AH	104	PRO	CA-C-N	6.93	131.78	121.72
31	AH	104	PRO	C-N-CA	6.93	131.78	121.72
36	B2	1075	C	N1-C1'-C2'	6.93	122.40	112.00
36	B2	1380	C	N1-C1'-C2'	6.93	122.40	112.00
36	B2	1453	C	C1'-C2'-O2'	6.93	118.80	108.40
63	CB	398	ALA	CA-C-O	-6.93	109.01	120.80
85	A5	2269	C	C3'-C2'-C1'	6.93	108.23	101.30
85	A5	4879	C	O3'-P-O5'	-6.93	93.60	104.00
14	AT	144	LYS	CA-C-O	-6.93	109.01	120.80
33	AI	4	SER	CB-CA-C	-6.93	101.66	111.85
85	A5	1346	C	O4'-C1'-C2'	-6.93	100.67	107.60
5	AO	20	GLN	N-CA-C	6.93	119.09	108.42
25	Af	152	LYS	CA-C-O	-6.93	109.02	120.80
36	B2	1721	U	O3'-P-O5'	6.93	114.40	104.00
56	CX	57	GLN	CA-C-N	-6.93	111.18	119.84
56	CX	57	GLN	C-N-CA	-6.93	111.18	119.84
6	AX	142	ARG	CA-C-O	-6.93	109.02	120.80
35	Ah	188	ARG	CA-C-O	-6.93	109.02	120.80
36	B2	399	C	O4'-C1'-C2'	-6.93	98.87	105.80
50	CR	189	SER	CA-C-O	-6.93	109.02	120.80
51	CA	256	GLU	CA-C-O	-6.93	109.02	120.80
58	CW	124	LYS	CA-C-O	-6.93	109.02	120.80
1	Az	478	PHE	CB-CA-C	6.93	121.66	110.09
11	AL	120	VAL	N-CA-C	-6.93	98.84	108.12
59	CZ	14	LEU	N-CA-C	6.93	118.91	111.36
85	A5	348	G	C5'-C4'-C3'	6.93	125.59	115.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	410	A	N9-C1'-C2'	6.93	122.39	112.00
85	A5	3881	G	N9-C1'-C2'	-6.93	103.61	114.00
85	A5	685	C	O4'-C1'-C2'	-6.92	98.88	105.80
85	A5	702	U	O4'-C1'-N1	6.92	118.89	108.50
85	A5	1914	C	N1-C1'-C2'	6.92	122.39	112.00
85	A5	2105	A	C4'-C3'-C2'	-6.92	95.68	102.60
44	CM	83	ASN	CA-C-N	-6.92	111.44	120.44
44	CM	83	ASN	C-N-CA	-6.92	111.44	120.44
85	A5	3691	G	O4'-C1'-C2'	-6.92	98.88	105.80
85	A5	4870	G	N9-C1'-C2'	6.92	124.38	114.00
23	AD	93	THR	CA-C-N	6.92	134.91	122.38
23	AD	93	THR	C-N-CA	6.92	134.91	122.38
85	A5	969	C	O4'-C1'-C2'	-6.92	98.88	105.80
85	A5	2463	G	N9-C1'-C2'	6.92	122.38	112.00
85	A5	4757	C	C2'-C3'-O3'	-6.92	103.32	113.70
1	Az	448	GLN	CB-CA-C	-6.92	100.02	110.88
4	AK	98	ARG	CA-C-O	-6.92	109.04	120.80
8	AS	40	TYR	CA-C-O	6.92	128.08	120.82
36	B2	1551	U	C1'-O4'-C4'	-6.92	102.98	109.90
85	A5	1719	A	O4'-C4'-C3'	-6.92	97.08	104.00
85	A5	3710	G	N9-C1'-C2'	6.92	122.38	112.00
36	B2	225	G	O4'-C1'-C2'	6.92	114.52	107.60
85	A5	354	U	O4'-C1'-C2'	-6.92	98.88	105.80
85	A5	4418	G	C1'-O4'-C4'	6.92	116.82	109.90
82	CG	77	PRO	CA-C-N	6.92	128.48	119.84
82	CG	77	PRO	C-N-CA	6.92	128.48	119.84
85	A5	1691	G	C3'-C2'-C1'	6.92	108.22	101.30
85	A5	4626	A	N9-C1'-C2'	6.92	124.37	114.00
14	AT	44	GLU	N-CA-C	6.91	118.90	111.36
85	A5	78	U	N1-C1'-C2'	6.91	122.37	112.00
85	A5	693	C	O3'-P-O5'	6.91	114.37	104.00
85	A5	1854	G	O4'-C1'-C2'	-6.91	98.89	105.80
85	A5	4770	U	O4'-C1'-N1	6.91	118.87	108.50
85	A5	4955	A	O4'-C1'-C2'	-6.91	100.69	107.60
28	AC	259	THR	N-CA-C	6.91	125.52	110.80
36	B2	225	G	C1'-O4'-C4'	-6.91	102.99	109.90
36	B2	560	A	O5'-C5'-C4'	6.91	121.87	111.50
36	B2	964	A	O4'-C1'-N9	6.91	118.87	108.50
11	AL	24	LEU	CA-C-N	6.91	134.74	121.54
11	AL	24	LEU	C-N-CA	6.91	134.74	121.54
62	Cb	53	GLY	O-C-N	-6.91	113.72	122.70
68	Cf	23	GLU	O-C-N	6.91	131.62	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4882	U	P-O3'-C3'	6.91	130.57	120.20
85	A5	4952	G	N9-C1'-C2'	6.91	122.37	112.00
36	B2	490	C	O4'-C1'-C2'	-6.91	100.69	107.60
36	B2	1528	G	C3'-C2'-C1'	-6.91	94.39	101.30
85	A5	4183	G	O4'-C1'-C2'	6.91	112.71	105.80
85	A5	1928	C	C3'-C2'-C1'	6.91	108.41	101.50
85	A5	2345	G	O3'-P-O5'	-6.91	93.64	104.00
36	B2	156	G	P-O3'-C3'	-6.91	109.84	120.20
36	B2	1440	C	N1-C1'-C2'	6.91	122.36	112.00
85	A5	2795	A	O4'-C1'-C2'	-6.91	98.89	105.80
85	A5	4668	U	C4'-C3'-O3'	-6.91	102.64	113.00
47	CI	199	TYR	CA-C-N	6.90	134.90	122.13
47	CI	199	TYR	C-N-CA	6.90	134.90	122.13
36	B2	193	C	P-O5'-C5'	6.90	131.25	120.90
85	A5	4343	U	N1-C1'-C2'	6.90	122.35	112.00
36	B2	1271	C	O4'-C1'-C2'	-6.90	100.70	107.60
69	Cg	49	CYS	N-CA-C	-6.90	94.56	109.81
85	A5	2818	C	O4'-C1'-C2'	-6.90	100.70	107.60
1	Az	666	THR	CA-C-N	-6.90	112.61	123.24
1	Az	666	THR	C-N-CA	-6.90	112.61	123.24
56	CX	37	LYS	CA-C-N	6.90	134.91	121.66
56	CX	37	LYS	C-N-CA	6.90	134.91	121.66
58	CW	75	ALA	CA-C-N	6.90	134.39	121.97
58	CW	75	ALA	C-N-CA	6.90	134.39	121.97
85	A5	142	G	O4'-C1'-C2'	6.90	112.70	105.80
85	A5	303	C	C3'-C2'-C1'	6.90	108.20	101.30
87	A8	34	U	C2'-C3'-O3'	6.90	119.85	109.50
6	AX	91	LEU	CA-CB-CG	6.90	140.44	116.30
60	Cr	37	SER	CA-C-N	-6.90	111.25	120.63
60	Cr	37	SER	C-N-CA	-6.90	111.25	120.63
27	AE	129	ILE	O-C-N	6.89	130.13	123.03
36	B2	1707	U	N1-C1'-C2'	6.89	122.34	112.00
36	B2	103	A	O4'-C1'-C2'	6.89	112.69	105.80
85	A5	377	A	C4'-C3'-O3'	6.89	123.34	113.00
85	A5	733	A	O4'-C1'-C2'	6.89	114.49	107.60
85	A5	2076	G	O4'-C1'-C2'	6.89	114.49	107.60
85	A5	4305	G	N9-C1'-C2'	6.89	124.34	114.00
85	A5	4645	C	O4'-C1'-C2'	-6.89	100.71	107.60
85	A5	1282	G	O5'-C5'-C4'	6.89	121.84	111.50
85	A5	1442	C	O3'-P-O5'	6.89	114.34	104.00
85	A5	1089	G	O4'-C1'-N9	6.89	118.83	108.50
85	A5	2559	G	O4'-C1'-N9	6.89	118.83	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4124	G	N9-C1'-C2'	6.89	122.33	112.00
85	A5	521	C	N1-C1'-C2'	6.89	122.33	112.00
85	A5	2247	C	O4'-C1'-C2'	-6.89	98.91	105.80
85	A5	2462	C	C3'-C2'-C1'	6.89	108.19	101.30
1	Az	829	SER	CA-C-N	-6.88	111.24	119.78
1	Az	829	SER	C-N-CA	-6.88	111.24	119.78
29	AG	157	VAL	CA-C-O	6.88	128.60	121.23
36	B2	533	A	C2'-C3'-O3'	6.88	124.03	113.70
39	Cq	255	THR	O-C-N	6.88	131.96	122.46
85	A5	1105	C	O4'-C1'-C2'	-6.88	100.72	107.60
85	A5	2270	G	C1'-O4'-C4'	-6.88	103.02	109.90
36	B2	1203	G	C1'-O4'-C4'	-6.88	103.02	109.90
45	Ca	95	THR	O-C-N	-6.88	111.99	123.00
85	A5	4641	U	O4'-C1'-N1	6.88	118.83	108.50
36	B2	693	A	O4'-C4'-C3'	-6.88	97.12	104.00
85	A5	2257	C	O4'-C1'-C2'	-6.88	98.92	105.80
85	A5	2698	G	O4'-C1'-C2'	-6.88	100.72	107.60
85	A5	4118	U	O4'-C1'-N1	6.88	118.52	108.20
36	B2	637	U	O4'-C1'-N1	6.88	118.82	108.50
85	A5	4747	C	C4'-C3'-C2'	-6.88	95.72	102.60
36	B2	1512	C	O4'-C1'-C2'	-6.88	100.72	107.60
85	A5	1906	U	N1-C1'-C2'	6.88	122.32	112.00
85	A5	184	U	O4'-C1'-C2'	-6.88	100.72	107.60
85	A5	2107	C	C2'-C3'-O3'	6.88	119.81	109.50
85	A5	4751	G	C1'-C2'-O2'	6.88	118.72	108.40
36	B2	614	C	C3'-C2'-C1'	6.88	108.38	101.50
85	A5	1256	G	N9-C1'-C2'	6.88	122.31	112.00
85	A5	2347	A	O4'-C1'-C2'	-6.88	98.92	105.80
2	Ag	24	THR	CA-C-N	-6.87	111.25	119.84
2	Ag	24	THR	C-N-CA	-6.87	111.25	119.84
19	AZ	96	LEU	N-CA-C	-6.87	103.72	111.14
68	Cf	6	TRP	N-CA-C	6.87	125.44	110.80
85	A5	4067	U	O4'-C1'-N1	6.87	118.81	108.50
2	Ag	159	ASN	O-C-N	-6.87	113.45	122.59
36	B2	1777	G	O4'-C1'-C2'	6.87	114.47	107.60
85	A5	981	C	C1'-O4'-C4'	6.87	116.77	109.90
85	A5	4962	C	O4'-C1'-C2'	-6.87	100.73	107.60
36	B2	540	U	O4'-C1'-N1	6.87	118.81	108.50
85	A5	234	G	N9-C1'-C2'	-6.87	103.69	114.00
85	A5	3278	C	C4'-C3'-O3'	-6.87	99.70	110.00
7	AM	99	ASN	N-CA-C	6.87	126.62	112.40
36	B2	317	C	O4'-C1'-C2'	-6.87	100.73	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2505	C	O4'-C1'-N1	6.87	118.50	108.20
85	A5	334	A	P-O5'-C5'	6.87	131.20	120.90
85	A5	2293	U	C1'-O4'-C4'	-6.87	103.03	109.90
85	A5	3648	A	O4'-C1'-C2'	-6.87	98.93	105.80
36	B2	325	C	O4'-C1'-C2'	-6.87	98.93	105.80
85	A5	3773	U	C2'-C3'-O3'	-6.87	103.40	113.70
31	AH	119	SER	N-CA-C	-6.86	101.14	110.68
36	B2	834	C	C1'-C2'-O2'	6.86	118.69	108.40
36	B2	841	G	O4'-C1'-N9	6.86	118.79	108.50
36	B2	1782	G	C3'-C2'-C1'	-6.86	94.44	101.30
53	CT	147	GLU	C-N-CD	-6.86	96.86	125.00
85	A5	2289	C	O4'-C1'-C2'	-6.86	100.74	107.60
85	A5	4152	G	C1'-O4'-C4'	-6.86	103.04	109.90
85	A5	4752	U	P-O5'-C5'	6.86	131.19	120.90
86	A7	56	G	N9-C1'-C2'	6.86	122.30	112.00
86	A7	93	G	C1'-O4'-C4'	-6.86	103.04	109.90
85	A5	188	G	O4'-C1'-N9	6.86	118.49	108.20
36	B2	78	C	N1-C1'-C2'	-6.86	103.71	114.00
85	A5	2093	A	O4'-C1'-N9	6.86	118.49	108.20
85	A5	2384	U	N1-C1'-C2'	6.86	122.29	112.00
85	A5	4077	A	O4'-C1'-C2'	-6.86	100.74	107.60
85	A5	2317	C	N1-C1'-C2'	6.86	122.29	112.00
85	A5	2752	G	P-O5'-C5'	-6.86	110.61	120.90
36	B2	176	U	N1-C1'-C2'	6.86	122.29	112.00
74	CC	108	TRP	CA-C-N	-6.86	109.28	120.87
74	CC	108	TRP	C-N-CA	-6.86	109.28	120.87
85	A5	949	G	C1'-O4'-C4'	-6.86	103.04	109.90
85	A5	1467	C	O4'-C1'-C2'	-6.86	100.74	107.60
36	B2	1639	G	O4'-C1'-C2'	-6.86	100.75	107.60
85	A5	1284	G	P-O3'-C3'	6.86	130.48	120.20
85	A5	2253	A	O4'-C1'-N9	6.86	118.78	108.50
85	A5	3727	A	C3'-C2'-C1'	6.86	108.16	101.30
85	A5	4218	U	N1-C1'-C2'	6.86	122.28	112.00
85	A5	4545	G	P-O5'-C5'	-6.86	110.62	120.90
47	CI	100	ASN	O-C-N	-6.85	114.14	122.71
36	B2	1350	U	O4'-C1'-C2'	-6.85	100.75	107.60
85	A5	678	C	O4'-C1'-C2'	-6.85	100.75	107.60
85	A5	1106	A	C4'-C3'-C2'	-6.85	95.75	102.60
52	CS	13	VAL	CA-CB-CG2	6.85	122.05	110.40
28	AC	98	LEU	O-C-N	-6.85	114.84	122.72
34	AQ	77	HIS	N-CA-C	6.85	118.75	111.28
85	A5	977	C	C5'-C4'-C3'	-6.85	105.73	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1348	U	O4'-C1'-N1	6.85	118.77	108.50
85	A5	2004	U	P-O3'-C3'	-6.85	109.93	120.20
85	A5	5032	C	C1'-O4'-C4'	-6.85	103.05	109.90
36	B2	1663	A	O4'-C1'-C2'	-6.85	100.75	107.60
85	A5	2615	C	N1-C1'-C2'	6.85	122.27	112.00
85	A5	1251	C	C1'-O4'-C4'	6.84	116.74	109.90
17	AV	24	ILE	CA-C-N	-6.84	117.46	122.18
17	AV	24	ILE	C-N-CA	-6.84	117.46	122.18
36	B2	1288	U	N1-C1'-C2'	6.84	122.26	112.00
85	A5	4113	U	O4'-C1'-C2'	-6.84	100.76	107.60
36	B2	62	G	N9-C1'-C2'	6.84	122.26	112.00
36	B2	155	G	C5'-C4'-C3'	6.84	126.26	116.00
36	B2	321	C	C3'-C2'-C1'	6.84	108.14	101.30
85	A5	910	G	N9-C1'-C2'	6.84	122.26	112.00
85	A5	930	G	O4'-C1'-N9	6.84	118.76	108.50
56	CX	118	ASP	N-CA-C	-6.84	103.48	112.24
60	Cr	105	ASP	N-CA-C	6.84	125.37	110.80
85	A5	1394	G	O4'-C1'-C2'	-6.84	100.76	107.60
85	A5	2874	U	C3'-C2'-C1'	6.84	108.34	101.50
47	CI	199	TYR	N-CA-C	-6.84	97.38	108.52
54	CP	7	ASP	C-N-CD	-6.84	96.97	125.00
6	AX	24	ASP	CB-CA-C	-6.83	100.56	110.06
85	A5	2628	U	C4'-C3'-O3'	6.83	123.25	113.00
5	AO	143	LYS	CB-CA-C	-6.83	97.97	109.65
85	A5	2092	G	C4'-C3'-C2'	-6.83	95.77	102.60
85	A5	3893	C	N1-C1'-C2'	6.83	122.25	112.00
85	A5	4417	C	O4'-C1'-C2'	-6.83	100.77	107.60
81	CE	143	SER	CA-C-N	-6.83	109.55	120.34
81	CE	143	SER	C-N-CA	-6.83	109.55	120.34
85	A5	2456	G	N9-C1'-C2'	6.83	122.25	112.00
46	CN	189	ARG	N-CA-C	6.83	118.52	111.14
85	A5	1059	C	C5'-C4'-C3'	-6.83	104.66	114.90
34	AQ	31	LEU	CA-C-N	6.83	134.26	121.97
34	AQ	31	LEU	C-N-CA	6.83	134.26	121.97
40	CK	28	LEU	N-CA-C	-6.83	96.25	110.80
85	A5	1297	U	C1'-O4'-C4'	6.83	116.73	109.90
16	AA	16	LEU	N-CA-C	6.83	118.51	111.14
36	B2	1	U	O4'-C1'-N1	6.83	118.44	108.20
36	B2	558	G	C3'-C2'-C1'	-6.83	94.47	101.30
85	A5	183	C	O3'-P-O5'	6.83	114.24	104.00
85	A5	967	C	C3'-C2'-C1'	6.83	108.13	101.30
85	A5	1974	U	C3'-C2'-C1'	6.83	108.33	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4598	C	N1-C1'-C2'	6.83	122.24	112.00
36	B2	752	G	O4'-C1'-N9	6.83	118.74	108.50
64	CF	79	GLY	N-CA-C	-6.83	105.41	115.72
85	A5	1313	C	C1'-O4'-C4'	6.83	116.53	109.70
85	A5	2395	A	C3'-C2'-C1'	6.83	108.33	101.50
86	A7	9	C	N1-C1'-C2'	6.83	122.24	112.00
36	B2	1155	U	P-O5'-C5'	6.82	131.13	120.90
85	A5	735	G	O4'-C1'-C2'	-6.82	100.78	107.60
36	B2	465	A	C4'-C3'-O3'	6.82	119.63	109.40
85	A5	1368	A	P-O5'-C5'	6.82	131.13	120.90
85	A5	3747	A	O4'-C1'-C2'	-6.82	98.98	105.80
85	A5	4251	A	N9-C1'-C2'	6.82	122.23	112.00
36	B2	331	C	O4'-C1'-C2'	-6.82	98.98	105.80
36	B2	699	C	P-O3'-C3'	6.82	130.43	120.20
36	B2	1260	A	N9-C1'-C2'	6.82	122.23	112.00
81	CE	103	GLY	O-C-N	-6.82	113.83	122.70
85	A5	337	U	O4'-C1'-C2'	-6.82	100.78	107.60
85	A5	1698	C	O4'-C1'-C2'	-6.82	100.78	107.60
85	A5	608	C	P-O3'-C3'	6.82	130.43	120.20
36	B2	556	U	C1'-C2'-O2'	6.82	118.63	108.40
85	A5	4572	U	N1-C1'-C2'	6.82	122.23	112.00
36	B2	891	G	N9-C1'-C2'	6.82	122.22	112.00
85	A5	276	C	C4'-C3'-C2'	6.82	109.42	102.60
85	A5	448	G	P-O3'-C3'	6.82	130.43	120.20
85	A5	1996	C	O4'-C1'-C2'	-6.82	100.78	107.60
85	A5	2794	C	C3'-C2'-C1'	6.82	108.32	101.50
87	A8	111	U	P-O5'-C5'	-6.82	110.68	120.90
36	B2	1253	A	O4'-C1'-N9	6.81	118.42	108.20
36	B2	1807	C	N1-C1'-C2'	6.81	122.22	112.00
34	AQ	17	LYS	CA-C-N	6.81	132.81	122.93
34	AQ	17	LYS	C-N-CA	6.81	132.81	122.93
36	B2	1211	G	N9-C1'-C2'	6.81	122.22	112.00
75	Cm	127	VAL	N-CA-C	-6.81	99.02	109.78
85	A5	492	U	N1-C1'-C2'	6.81	122.22	112.00
85	A5	1303	A	P-O5'-C5'	6.81	131.12	120.90
85	A5	5036	C	N1-C1'-C2'	6.81	122.22	112.00
82	CG	260	GLU	O-C-N	-6.81	114.39	122.15
85	A5	1266	G	C3'-C2'-C1'	-6.81	94.69	101.50
47	CI	210	ARG	N-CA-CB	6.81	120.21	110.13
77	Cp	15	GLY	CA-C-N	-6.81	111.56	121.98
77	Cp	15	GLY	C-N-CA	-6.81	111.56	121.98
85	A5	322	C	N1-C1'-C2'	6.81	122.22	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1310	C	O4'-C1'-N1	6.81	118.71	108.50
85	A5	1347	G	O4'-C1'-N9	6.81	118.72	108.50
87	A8	118	C	N1-C1'-C2'	6.81	122.22	112.00
64	CF	23	ARG	N-CA-CB	-6.81	98.99	110.49
85	A5	294	G	N9-C1'-C2'	6.81	122.21	112.00
85	A5	750	U	O4'-C1'-N1	6.81	118.71	108.50
85	A5	957	G	C1'-C2'-O2'	6.81	122.01	111.80
85	A5	4680	G	O4'-C1'-N9	6.81	118.71	108.50
36	B2	887	U	C2'-C3'-O3'	6.81	119.71	109.50
33	AI	4	SER	N-CA-C	6.80	119.72	108.49
85	A5	1538	U	C2'-C3'-O3'	-6.80	103.50	113.70
85	A5	4697	U	O4'-C1'-N1	6.80	118.71	108.50
23	AD	83	SER	CA-C-N	-6.80	110.74	121.62
23	AD	83	SER	C-N-CA	-6.80	110.74	121.62
85	A5	385	A	O4'-C1'-N9	6.80	118.41	108.20
52	CS	4	SER	N-CA-C	6.80	125.29	110.80
56	CX	40	ILE	CB-CA-C	-6.80	100.14	111.29
85	A5	255	C	N1-C1'-C2'	6.80	122.20	112.00
85	A5	1285	U	C4'-C3'-C2'	-6.80	95.80	102.60
36	B2	395	G	O4'-C1'-C2'	6.80	114.40	107.60
36	B2	1473	G	P-O3'-C3'	6.80	130.40	120.20
7	AM	73	GLN	N-CA-C	-6.80	102.96	110.91
85	A5	2006	U	N1-C1'-C2'	6.80	122.20	112.00
85	A5	2828	U	O4'-C1'-C2'	-6.80	100.80	107.60
1	Az	4	PHE	CA-C-N	6.80	134.08	122.12
1	Az	4	PHE	C-N-CA	6.80	134.08	122.12
53	CT	151	LEU	O-C-N	-6.80	113.16	122.81
82	CG	91	THR	CB-CA-C	6.80	121.68	110.81
85	A5	1920	C	O5'-C5'-C4'	6.80	121.69	111.50
85	A5	2779	C	O4'-C1'-C2'	-6.80	100.80	107.60
85	A5	3799	A	C1'-O4'-C4'	-6.80	103.10	109.90
85	A5	3997	C	P-O3'-C3'	6.80	130.40	120.20
85	A5	1656	U	N1-C1'-C2'	6.79	122.19	112.00
36	B2	416	U	O4'-C1'-N1	6.79	118.69	108.50
74	CC	12	SER	CA-C-N	6.79	134.51	121.54
74	CC	12	SER	C-N-CA	6.79	134.51	121.54
85	A5	4624	A	C3'-C2'-C1'	6.79	108.09	101.30
63	CB	356	LYS	CA-CB-CG	-6.79	100.52	114.10
85	A5	1276	C	C1'-O4'-C4'	-6.79	103.11	109.90
85	A5	2824	C	C3'-C2'-C1'	6.79	108.09	101.30
85	A5	4335	C	C1'-O4'-C4'	-6.79	102.91	109.70
36	B2	1317	C	O4'-C1'-C2'	-6.79	100.81	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1237	C	C3'-C2'-C1'	6.79	108.09	101.30
81	CE	210	LYS	N-CA-C	6.79	118.76	111.36
85	A5	5023	C	P-O3'-C3'	6.79	130.38	120.20
6	AX	24	ASP	CA-C-N	-6.79	111.19	120.28
6	AX	24	ASP	C-N-CA	-6.79	111.19	120.28
36	B2	1780	G	N9-C1'-C2'	6.79	122.18	112.00
48	CD	219	TYR	N-CA-CB	6.79	121.96	110.49
81	CE	127	SER	N-CA-C	6.78	120.32	110.28
85	A5	4271	A	N9-C1'-C2'	6.78	122.17	112.00
42	CL	4	SER	CA-C-O	-6.78	113.31	120.63
59	CZ	102	ARG	N-CA-CB	6.78	121.95	110.49
68	Cf	56	ASN	N-CA-C	6.78	119.33	108.41
85	A5	1378	C	O4'-C1'-C2'	-6.78	100.82	107.60
85	A5	4708	A	N9-C1'-C2'	6.78	122.17	112.00
36	B2	1781	A	P-O3'-C3'	6.78	130.37	120.20
36	B2	38	A	O4'-C1'-N9	6.78	118.37	108.20
36	B2	1847	G	O4'-C1'-N9	6.78	118.67	108.50
58	CW	79	GLN	N-CA-C	6.78	120.45	109.40
85	A5	4875	G	O4'-C1'-N9	6.78	118.66	108.50
85	A5	5026	U	C2'-C3'-O3'	-6.77	103.54	113.70
31	AH	19	PHE	CA-CB-CG	-6.77	107.03	113.80
85	A5	480	C	C5'-C4'-C3'	6.77	126.16	116.00
85	A5	2573	A	P-O5'-C5'	-6.77	110.74	120.90
85	A5	4638	U	P-O3'-C3'	6.77	130.36	120.20
68	Cf	104	MET	N-CA-C	6.77	120.41	110.59
85	A5	4757	C	P-O3'-C3'	6.77	130.36	120.20
3	AU	118	ASP	N-CA-C	-6.77	96.38	110.80
22	Ac	60	GLU	CA-C-N	-6.77	111.86	122.49
22	Ac	60	GLU	C-N-CA	-6.77	111.86	122.49
36	B2	528	A	C1'-O4'-C4'	-6.77	103.13	109.90
36	B2	1052	A	O4'-C1'-C2'	-6.77	100.83	107.60
36	B2	1601	A	P-O3'-C3'	6.77	130.35	120.20
37	BC	17	G	O4'-C1'-C2'	6.77	112.57	105.80
69	Cg	82	MET	CB-CG-SD	6.77	133.01	112.70
13	AP	49	LEU	O-C-N	-6.77	113.59	122.59
75	Cm	128	LYS	N-CA-C	-6.77	92.05	111.00
3	AU	41	ARG	N-CA-C	6.77	118.45	111.14
11	AL	147	LYS	CA-C-N	6.77	130.36	120.82
11	AL	147	LYS	C-N-CA	6.77	130.36	120.82
82	CG	35	ARG	CB-CA-C	-6.77	99.12	108.86
85	A5	142	G	N9-C1'-C2'	6.77	124.15	114.00
85	A5	4561	C	C4'-C3'-O3'	-6.77	102.85	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2587	A	C2'-C3'-O3'	6.76	119.65	109.50
85	A5	4906	C	O4'-C1'-C2'	-6.76	100.84	107.60
86	A7	12	U	C3'-C2'-C1'	6.76	108.27	101.50
36	B2	308	G	C1'-O4'-C4'	-6.76	102.94	109.70
85	A5	1438	U	N1-C1'-C2'	6.76	122.14	112.00
6	AX	61	GLN	C-N-CD	6.76	135.47	120.60
36	B2	435	A	C4'-C3'-O3'	6.76	119.54	109.40
87	A8	128	C	P-O5'-C5'	6.76	131.04	120.90
19	AZ	101	SER	CA-C-O	-6.76	112.46	120.43
68	Cf	80	ASN	N-CA-C	-6.76	105.03	113.55
4	AK	1	MET	N-CA-C	6.76	129.92	111.00
36	B2	1236	G	C3'-C2'-C1'	-6.76	94.54	101.30
85	A5	4880	C	O3'-P-O5'	-6.76	93.86	104.00
1	Az	196	GLU	N-CA-CB	6.75	119.90	109.97
36	B2	1133	A	O5'-C5'-C4'	-6.75	101.37	111.50
36	B2	1329	U	C1'-O4'-C4'	-6.75	103.15	109.90
45	Ca	98	ALA	CB-CA-C	-6.75	96.86	110.17
81	CE	36	LYS	CB-CA-C	6.75	123.47	110.17
85	A5	5057	C	O4'-C1'-C2'	-6.75	100.85	107.60
36	B2	800	U	C5'-C4'-C3'	-6.75	105.87	116.00
74	CC	88	GLY	N-CA-C	-6.75	97.18	113.18
85	A5	1974	U	N1-C1'-C2'	6.75	124.13	114.00
85	A5	1768	C	C1'-O4'-C4'	6.75	116.45	109.70
85	A5	4943	A	C3'-C2'-C1'	-6.75	94.55	101.30
2	Ag	15	ASN	N-CA-CB	6.75	119.57	110.59
57	CY	93	THR	CA-C-N	-6.75	112.01	122.87
57	CY	93	THR	C-N-CA	-6.75	112.01	122.87
85	A5	81	C	O4'-C1'-C2'	-6.75	100.85	107.60
36	B2	1555	U	C4'-C3'-O3'	-6.75	102.88	113.00
85	A5	1398	A	C1'-C2'-O2'	6.75	121.92	111.80
85	A5	3268	U	C5'-C4'-C3'	6.75	136.24	116.00
85	A5	4409	C	C3'-C2'-C1'	6.75	108.05	101.30
86	A7	2	U	N1-C1'-C2'	6.75	122.12	112.00
40	CK	85	LEU	N-CA-CB	6.74	121.39	110.40
47	CI	4	ARG	O-C-N	6.74	129.08	121.32
58	CW	72	THR	N-CA-C	6.74	125.16	110.80
85	A5	501	C	P-O5'-C5'	6.74	131.01	120.90
85	A5	2116	C	C3'-C2'-C1'	6.74	108.24	101.50
85	A5	2407	G	O4'-C1'-C2'	6.74	112.54	105.80
85	A5	2653	C	C3'-C2'-C1'	6.74	108.04	101.30
36	B2	1698	C	O4'-C1'-C2'	-6.74	99.06	105.80
60	Cr	31	ASN	N-CA-C	-6.74	96.44	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	A8	110	U	O3'-P-O5'	-6.74	93.89	104.00
36	B2	434	G	C2'-C3'-O3'	6.74	123.81	113.70
47	CI	210	ARG	CA-C-O	-6.74	113.34	120.55
85	A5	3821	A	O4'-C1'-N9	6.74	118.61	108.50
85	A5	4991	U	P-O5'-C5'	6.74	131.01	120.90
38	Cz	26	ARG	N-CA-CB	-6.74	99.11	110.49
36	B2	839	C	O3'-P-O5'	-6.74	93.90	104.00
52	CS	151	LYS	N-CA-CB	-6.74	99.11	110.49
85	A5	1163	G	C1'-O4'-C4'	-6.74	103.17	109.90
30	AF	130	ARG	N-CA-CB	6.73	121.87	111.84
31	AH	110	THR	CA-CB-CG2	6.73	121.94	110.50
36	B2	1528	G	O4'-C1'-N9	6.73	118.60	108.50
60	Cr	110	ALA	CA-C-N	6.73	130.02	120.53
60	Cr	110	ALA	C-N-CA	6.73	130.02	120.53
23	AD	217	ILE	N-CA-C	6.73	115.91	107.70
85	A5	463	A	C3'-C2'-C1'	6.73	108.03	101.30
85	A5	1865	G	C4'-C3'-C2'	-6.73	95.87	102.60
85	A5	4915	G	O4'-C1'-C2'	-6.73	100.87	107.60
85	A5	4884	G	P-O3'-C3'	6.73	130.29	120.20
5	AO	103	ASN	N-CA-CB	6.73	120.45	110.49
39	Cq	68	HIS	CA-C-N	6.73	134.39	121.54
39	Cq	68	HIS	C-N-CA	6.73	134.39	121.54
42	CL	3	PRO	O-C-N	6.73	131.72	122.64
46	CN	49	ARG	N-CA-C	-6.73	100.35	110.24
81	CE	117	PRO	CA-C-N	-6.73	108.69	121.54
81	CE	117	PRO	C-N-CA	-6.73	108.69	121.54
85	A5	4517	A	C3'-C2'-C1'	6.73	108.03	101.30
85	A5	4978	G	O4'-C1'-N9	6.73	118.59	108.50
87	A8	14	U	N1-C1'-C2'	6.73	122.09	112.00
85	A5	84	A	O4'-C1'-C2'	-6.73	99.07	105.80
36	B2	191	A	C5'-C4'-C3'	-6.72	105.91	116.00
36	B2	1195	A	C4'-C3'-O3'	-6.72	102.91	113.00
60	Cr	38	PHE	N-CA-C	-6.72	103.57	111.03
66	Cd	53	ALA	N-CA-C	-6.72	103.88	111.07
85	A5	2638	G	O3'-P-O5'	-6.72	93.91	104.00
87	A8	94	G	N9-C1'-C2'	-6.72	103.91	114.00
1	Az	760	TYR	CB-CA-C	-6.72	99.63	110.79
11	AL	81	LYS	N-CA-C	6.72	118.69	111.36
36	B2	1693	G	C1'-O4'-C4'	-6.72	103.18	109.90
85	A5	976	G	O4'-C1'-N9	6.72	118.58	108.50
36	B2	190	G	O5'-C5'-C4'	6.72	121.58	111.50
52	CS	12	VAL	CA-C-N	-6.72	113.70	122.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	CS	12	VAL	C-N-CA	-6.72	113.70	122.51
85	A5	1278	C	C3'-C2'-C1'	6.72	108.02	101.30
85	A5	1640	C	N1-C1'-C2'	-6.72	103.92	114.00
85	A5	2550	G	O4'-C1'-C2'	6.72	114.32	107.60
85	A5	4733	C	O3'-P-O5'	6.72	114.08	104.00
36	B2	1790	A	N9-C1'-C2'	6.72	122.08	112.00
81	CE	38	LYS	O-C-N	-6.72	113.65	122.59
85	A5	1884	C	N1-C1'-C2'	6.72	122.08	112.00
36	B2	1326	U	C3'-C2'-C1'	6.72	108.22	101.50
47	CI	201	PRO	CA-N-CD	-6.72	102.60	112.00
50	CR	88	ARG	O-C-N	6.72	128.99	122.07
85	A5	1961	G	N9-C1'-C2'	-6.72	103.93	114.00
85	A5	5023	C	C4'-C3'-O3'	-6.72	102.92	113.00
36	B2	753	C	C5'-C4'-C3'	6.71	126.07	116.00
36	B2	1486	A	O4'-C1'-N9	6.71	118.57	108.50
60	Cr	79	ARG	O-C-N	6.71	129.07	122.09
85	A5	445	U	C1'-O4'-C4'	6.71	116.61	109.90
85	A5	2018	C	C3'-C2'-C1'	6.71	108.01	101.30
87	A8	108	A	N9-C1'-C2'	-6.71	101.93	112.00
1	Az	404	THR	N-CA-CB	6.71	122.42	111.21
85	A5	4327	C	N1-C1'-C2'	6.71	122.07	112.00
87	A8	149	G	O4'-C1'-N9	6.71	118.57	108.50
8	AS	39	ARG	O-C-N	6.71	130.07	122.22
36	B2	559	G	N9-C1'-C2'	6.71	122.07	112.00
36	B2	1660	C	P-O3'-C3'	-6.71	110.13	120.20
61	Ch	78	TYR	CA-C-N	6.71	138.18	121.80
61	Ch	78	TYR	C-N-CA	6.71	138.18	121.80
85	A5	2801	U	O4'-C1'-N1	6.71	118.57	108.50
85	A5	2870	A	O4'-C1'-C2'	-6.71	100.89	107.60
85	A5	4869	U	O4'-C1'-C2'	-6.71	100.89	107.60
85	A5	983	C	O4'-C1'-C2'	-6.71	100.89	107.60
85	A5	2691	U	O3'-P-O5'	6.71	114.06	104.00
85	A5	4101	C	N1-C1'-C2'	6.71	122.06	112.00
40	CK	22	VAL	N-CA-C	6.71	119.67	112.96
85	A5	672	C	N1-C1'-C2'	6.71	122.06	112.00
85	A5	4535	A	O4'-C1'-C2'	-6.71	100.89	107.60
36	B2	288	G	P-O5'-C5'	6.71	130.96	120.90
38	Cz	99	LEU	O-C-N	-6.71	113.67	122.59
66	Cd	102	LEU	CA-C-N	6.71	132.23	122.77
66	Cd	102	LEU	C-N-CA	6.71	132.23	122.77
85	A5	708	G	O3'-P-O5'	-6.71	93.94	104.00
85	A5	2747	U	O4'-C1'-C2'	-6.70	100.90	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	A7	30	C	O4'-C1'-C2'	-6.70	100.90	107.60
68	Cf	80	ASN	CB-CA-C	6.70	119.73	109.34
82	CG	132	ARG	O-C-N	-6.70	114.40	121.30
85	A5	440	U	O4'-C1'-C2'	-6.70	100.90	107.60
36	B2	1380	C	C3'-C2'-C1'	6.70	108.00	101.30
69	Cg	15	THR	CA-C-N	-6.70	111.30	120.28
69	Cg	15	THR	C-N-CA	-6.70	111.30	120.28
85	A5	1099	C	O4'-C1'-C2'	-6.70	100.90	107.60
85	A5	2304	U	O4'-C1'-N1	6.70	118.25	108.20
85	A5	2427	G	C1'-O4'-C4'	-6.70	103.20	109.90
85	A5	4504	C	O4'-C1'-C2'	-6.70	100.90	107.60
36	B2	1070	A	N9-C1'-C2'	6.70	122.05	112.00
40	CK	114	ARG	CG-CD-NE	6.70	126.73	112.00
52	CS	19	THR	N-CA-C	6.70	124.61	109.81
85	A5	2102	G	O4'-C1'-N9	6.70	118.55	108.50
52	CS	3	ALA	CA-C-N	6.70	134.33	121.54
52	CS	3	ALA	C-N-CA	6.70	134.33	121.54
87	A8	87	G	C1'-C2'-O2'	6.70	121.84	111.80
31	AH	164	ASN	CA-CB-CG	-6.70	105.90	112.60
44	CM	91	TRP	CB-CG-CD2	-6.70	117.43	126.80
81	CE	116	TYR	N-CA-CB	6.70	122.29	110.37
85	A5	478	G	O4'-C1'-N9	6.70	118.54	108.50
85	A5	940	C	N1-C1'-C2'	6.70	122.04	112.00
85	A5	1537	A	C3'-C2'-C1'	6.70	108.00	101.30
36	B2	863	U	C1'-O4'-C4'	-6.69	103.21	109.90
85	A5	1267	C	P-O3'-C3'	6.69	130.24	120.20
85	A5	4933	C	O4'-C1'-C2'	-6.69	100.91	107.60
85	A5	1086	C	N1-C1'-C2'	6.69	122.03	112.00
38	Cz	210	MET	CA-CB-CG	-6.69	100.72	114.10
74	CC	307	LYS	N-CA-C	6.69	125.05	110.80
85	A5	298	G	C1'-O4'-C4'	-6.69	103.21	109.90
85	A5	1292	C	O4'-C1'-C2'	-6.69	100.91	107.60
85	A5	3760	A	O4'-C1'-N9	6.69	118.23	108.20
81	CE	127	SER	CA-C-O	6.69	128.65	121.16
85	A5	4229	U	O4'-C1'-N1	6.69	118.53	108.50
36	B2	466	G	O4'-C1'-N9	6.68	118.53	108.50
60	Cr	38	PHE	N-CA-CB	6.68	119.67	109.98
81	CE	88	VAL	CA-CB-CG2	-6.68	99.04	110.40
85	A5	308	G	C1'-C2'-O2'	6.68	121.83	111.80
28	AC	271	ASP	O-C-N	6.68	129.20	122.12
36	B2	74	G	O4'-C1'-C2'	-6.68	100.92	107.60
44	CM	65	PRO	N-CA-C	6.68	126.23	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	CP	108	ASP	CA-C-N	6.68	128.98	120.56
54	CP	108	ASP	C-N-CA	6.68	128.98	120.56
85	A5	290	U	O3'-P-O5'	-6.68	93.98	104.00
17	AV	42	VAL	CB-CA-C	-6.68	100.33	111.29
1	Az	242	GLY	CA-C-N	6.68	134.30	121.54
1	Az	242	GLY	C-N-CA	6.68	134.30	121.54
85	A5	2604	C	O4'-C1'-C2'	-6.68	100.92	107.60
85	A5	4150	G	O4'-C1'-N9	6.68	118.52	108.50
85	A5	4369	A	O4'-C1'-C2'	-6.68	100.92	107.60
85	A5	4544	A	C4'-C3'-O3'	6.68	123.02	113.00
11	AL	4	ILE	N-CA-C	-6.68	95.45	109.34
36	B2	425	G	O4'-C1'-N9	6.68	118.52	108.50
85	A5	2533	C	N1-C1'-C2'	6.68	122.02	112.00
36	B2	399	C	C3'-C2'-C1'	6.67	108.17	101.50
36	B2	429	C	O4'-C1'-C2'	-6.67	100.92	107.60
47	CI	24	ARG	CA-C-N	6.67	134.49	121.41
47	CI	24	ARG	C-N-CA	6.67	134.49	121.41
85	A5	638	G	N9-C1'-C2'	6.67	122.01	112.00
85	A5	4311	A	O4'-C1'-C2'	-6.67	100.93	107.60
87	A8	63	U	O4'-C1'-N1	6.67	118.51	108.50
36	B2	751	G	O4'-C1'-N9	6.67	118.51	108.50
36	B2	1108	G	P-O3'-C3'	6.67	130.21	120.20
85	A5	1596	U	N1-C1'-C2'	6.67	122.01	112.00
85	A5	1775	A	O4'-C1'-C2'	-6.67	100.93	107.60
85	A5	3973	G	P-O5'-C5'	6.67	130.91	120.90
86	A7	103	A	N9-C1'-C2'	6.67	122.01	112.00
36	B2	608	C	C3'-C2'-C1'	6.67	107.97	101.30
60	Cr	1	MET	CA-C-N	6.67	134.27	121.54
60	Cr	1	MET	C-N-CA	6.67	134.27	121.54
60	Cr	112	ARG	NE-CZ-NH2	-6.67	113.20	119.20
85	A5	1943	A	O4'-C1'-C2'	-6.67	100.93	107.60
85	A5	4990	C	P-O5'-C5'	-6.67	110.90	120.90
36	B2	465	A	P-O3'-C3'	6.67	130.20	120.20
36	B2	742	U	P-O3'-C3'	6.67	130.20	120.20
38	Cz	64	SER	CA-C-N	-6.67	112.68	122.68
38	Cz	64	SER	C-N-CA	-6.67	112.68	122.68
85	A5	1869	G	O4'-C1'-N9	6.67	118.20	108.20
36	B2	1034	A	O4'-C1'-C2'	-6.66	100.94	107.60
36	B2	1085	C	C4'-C3'-O3'	6.66	119.40	109.40
36	B2	1139	C	P-O5'-C5'	-6.66	110.91	120.90
69	Cg	28	ASN	CA-CB-CG	6.66	119.26	112.60
85	A5	3974	G	O3'-P-O5'	6.66	114.00	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2829	U	O4'-C1'-N1	6.66	118.49	108.50
3	AU	109	GLY	CA-C-N	-6.66	109.98	121.97
3	AU	109	GLY	C-N-CA	-6.66	109.98	121.97
36	B2	748	C	C3'-C2'-C1'	6.66	107.96	101.30
36	B2	963	A	O4'-C1'-C2'	6.66	114.26	107.60
36	B2	1149	A	O4'-C1'-N9	6.66	118.19	108.20
39	Cq	91	THR	O-C-N	-6.66	113.73	122.59
52	CS	154	LEU	N-CA-C	-6.66	99.89	109.48
85	A5	1535	C	N1-C1'-C2'	6.66	121.99	112.00
85	A5	2035	C	O4'-C1'-C2'	-6.66	100.94	107.60
85	A5	4062	A	O4'-C1'-N9	6.66	118.49	108.50
85	A5	5065	U	C4'-C3'-C2'	6.66	109.26	102.60
36	B2	955	A	P-O3'-C3'	6.66	130.19	120.20
85	A5	935	A	N9-C1'-C2'	6.66	121.99	112.00
85	A5	1484	G	C2'-C3'-O3'	6.66	119.49	109.50
36	B2	950	C	O4'-C1'-C2'	-6.66	100.94	107.60
53	CT	126	VAL	N-CA-C	-6.66	95.49	109.34
85	A5	2408	U	P-O5'-C5'	-6.66	110.91	120.90
85	A5	4945	G	O4'-C1'-N9	6.66	118.48	108.50
14	AT	86	GLY	N-CA-C	-6.66	105.55	111.67
74	CC	304	ALA	CA-C-N	6.66	128.16	119.84
74	CC	304	ALA	C-N-CA	6.66	128.16	119.84
85	A5	948	C	C1'-O4'-C4'	-6.66	103.25	109.90
36	B2	323	C	C3'-C2'-C1'	6.65	108.15	101.50
36	B2	1171	G	O4'-C1'-C2'	-6.65	99.15	105.80
81	CE	131	LYS	CB-CA-C	6.65	123.28	110.17
85	A5	441	G	C3'-C2'-C1'	-6.65	94.65	101.30
85	A5	417	G	O5'-C5'-C4'	-6.65	101.72	111.70
85	A5	1614	C	N1-C1'-C2'	6.65	121.98	112.00
85	A5	1972	G	C3'-C2'-C1'	-6.65	94.65	101.30
85	A5	3592	G	N9-C1'-C2'	6.65	121.97	112.00
85	A5	1239	C	O4'-C1'-C2'	-6.65	99.15	105.80
85	A5	2504	C	C3'-C2'-C1'	6.65	107.95	101.30
1	Az	95	GLY	CA-C-N	6.65	130.41	120.31
1	Az	95	GLY	C-N-CA	6.65	130.41	120.31
36	B2	787	G	O3'-P-O5'	6.65	113.97	104.00
36	B2	1708	C	O4'-C1'-C2'	-6.65	100.95	107.60
85	A5	98	A	O4'-C1'-C2'	-6.65	100.95	107.60
85	A5	1785	C	N1-C1'-C2'	6.65	121.97	112.00
85	A5	4252	C	O4'-C1'-C2'	-6.65	100.95	107.60
2	Ag	76	GLN	N-CA-C	6.65	118.60	111.36
36	B2	58	C	N1-C1'-C2'	-6.64	104.03	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1185	C	N1-C1'-C2'	6.64	121.97	112.00
72	Ck	31	ASN	N-CA-C	6.64	118.60	111.36
87	A8	154	G	O4'-C1'-N9	6.64	118.47	108.50
36	B2	299	A	O4'-C1'-C2'	-6.64	100.96	107.60
36	B2	796	G	P-O3'-C3'	6.64	130.16	120.20
48	CD	217	ASP	O-C-N	6.64	131.42	122.59
36	B2	1599	U	P-O5'-C5'	6.64	130.86	120.90
29	AG	180	VAL	N-CA-CB	-6.64	100.28	111.23
42	CL	11	LYS	CA-C-O	-6.64	111.06	120.16
42	CL	154	VAL	N-CA-C	6.64	123.15	109.34
85	A5	463	A	C1'-O4'-C4'	6.64	116.54	109.90
40	CK	104	ILE	CA-C-O	-6.64	112.48	120.78
74	CC	107	THR	CA-C-N	-6.64	108.86	121.54
74	CC	107	THR	C-N-CA	-6.64	108.86	121.54
85	A5	1631	A	C1'-O4'-C4'	6.64	116.34	109.70
85	A5	4430	G	C1'-O4'-C4'	-6.64	103.26	109.90
85	A5	4561	C	P-O5'-C5'	-6.64	110.94	120.90
45	Ca	70	CYS	CA-C-N	-6.63	112.93	119.76
45	Ca	70	CYS	C-N-CA	-6.63	112.93	119.76
85	A5	2273	G	C1'-O4'-C4'	-6.63	103.27	109.90
85	A5	2366	A	C3'-C2'-C1'	6.63	107.94	101.30
86	A7	26	C	C1'-O4'-C4'	-6.63	103.27	109.90
69	Cg	48	VAL	CB-CA-C	-6.63	100.41	111.29
85	A5	471	A	C3'-C2'-C1'	6.63	107.93	101.30
36	B2	1553	C	P-O3'-C3'	6.63	130.15	120.20
85	A5	1374	G	O4'-C1'-C2'	6.63	114.23	107.60
85	A5	4463	U	C4'-C3'-O3'	6.63	122.95	113.00
74	CC	22	VAL	O-C-N	6.63	129.46	123.03
36	B2	1247	C	O4'-C1'-C2'	-6.63	99.17	105.80
85	A5	2101	C	C3'-C2'-C1'	6.63	107.93	101.30
40	CK	103	ASN	N-CA-C	6.63	119.42	108.49
85	A5	4527	G	O4'-C1'-N9	6.63	118.14	108.20
85	A5	5026	U	O4'-C1'-N1	6.63	118.44	108.50
8	AS	100	ALA	CB-CA-C	-6.62	108.95	116.63
85	A5	83	C	O4'-C1'-C2'	-6.62	100.97	107.60
87	A8	23	C	O4'-C1'-C2'	-6.62	99.17	105.80
85	A5	1359	G	O4'-C1'-N9	-6.62	98.56	108.50
85	A5	1388	A	O4'-C1'-C2'	-6.62	100.98	107.60
85	A5	1851	G	C1'-O4'-C4'	-6.62	103.28	109.90
36	B2	104	A	O4'-C1'-C2'	-6.62	100.98	107.60
36	B2	1284	A	O4'-C1'-C2'	-6.62	99.18	105.80
36	B2	1388	A	O4'-C1'-C2'	-6.62	100.98	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BC	7	G	P-O3'-C3'	6.62	130.13	120.20
45	Ca	95	THR	CA-C-N	-6.62	110.59	121.12
45	Ca	95	THR	C-N-CA	-6.62	110.59	121.12
85	A5	2648	G	O5'-C5'-C4'	6.62	121.63	111.70
85	A5	4708	A	O4'-C1'-N9	6.62	118.43	108.50
4	AK	2	LEU	N-CA-C	6.62	129.53	111.00
36	B2	75	G	O4'-C1'-N9	6.62	118.43	108.50
36	B2	1230	C	C1'-O4'-C4'	-6.62	103.28	109.90
36	B2	1815	A	O4'-C1'-C2'	-6.62	100.98	107.60
85	A5	690	C	C3'-C2'-C1'	6.62	107.92	101.30
85	A5	1447	C	O4'-C1'-N1	6.62	118.43	108.50
36	B2	176	U	O4'-C1'-C2'	-6.62	100.98	107.60
36	B2	1292	C	O4'-C1'-C2'	-6.62	100.98	107.60
53	CT	139	HIS	CB-CA-C	-6.62	108.95	116.63
81	CE	110	ARG	N-CA-CB	-6.62	100.69	111.01
74	CC	315	LYS	CA-C-N	6.62	133.40	121.89
74	CC	315	LYS	C-N-CA	6.62	133.40	121.89
85	A5	86	U	N1-C1'-C2'	6.62	121.93	112.00
85	A5	1721	G	P-O5'-C5'	-6.62	110.97	120.90
20	Aa	57	SER	O-C-N	-6.62	115.25	122.79
23	AD	48	ILE	CA-C-N	-6.62	114.43	122.90
23	AD	48	ILE	C-N-CA	-6.62	114.43	122.90
36	B2	1136	U	O4'-C1'-C2'	-6.62	100.98	107.60
81	CE	242	ILE	O-C-N	-6.62	114.52	122.06
85	A5	1935	C	O4'-C1'-C2'	-6.62	99.19	105.80
85	A5	4884	G	C3'-C2'-C1'	6.62	108.12	101.50
36	B2	64	A	N9-C1'-C2'	-6.61	104.08	114.00
85	A5	1690	C	N1-C1'-C2'	6.61	121.92	112.00
85	A5	1691	G	O4'-C1'-C2'	-6.61	100.99	107.60
85	A5	4084	G	N9-C1'-C2'	6.61	121.92	112.00
42	CL	129	ARG	N-CA-C	6.61	124.88	110.80
85	A5	1342	A	O4'-C1'-C2'	-6.61	100.99	107.60
36	B2	891	G	C1'-O4'-C4'	-6.61	103.29	109.90
64	CF	172	ASN	CA-CB-CG	-6.61	105.99	112.60
85	A5	1397	A	O4'-C1'-C2'	-6.61	100.99	107.60
85	A5	1414	C	O4'-C1'-C2'	-6.61	100.99	107.60
85	A5	1930	U	O4'-C1'-C2'	-6.61	99.19	105.80
85	A5	2447	U	O4'-C1'-N1	6.61	118.42	108.50
85	A5	3715	U	C1'-C2'-O2'	6.61	118.32	108.40
36	B2	1048	G	C1'-O4'-C4'	-6.61	103.29	109.90
37	BC	21	G	O4'-C1'-N9	6.61	118.41	108.50
56	CX	38	LYS	N-CA-C	6.61	119.47	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4675	U	N1-C1'-C2'	6.61	121.91	112.00
30	AF	152	TRP	N-CA-C	-6.61	103.77	110.97
36	B2	68	A	O4'-C1'-C2'	-6.61	100.99	107.60
37	BC	69	G	N9-C1'-C2'	6.61	121.91	112.00
85	A5	151	G	N9-C1'-C2'	-6.61	104.09	114.00
85	A5	1107	C	O4'-C1'-C2'	-6.61	100.99	107.60
85	A5	2544	G	C1'-C2'-O2'	6.61	118.31	108.40
85	A5	4474	A	O4'-C1'-C2'	-6.61	100.99	107.60
87	A8	6	C	N1-C1'-C2'	6.61	121.91	112.00
87	A8	80	A	O4'-C1'-N9	6.61	118.11	108.20
1	Az	432	PRO	O-C-N	-6.61	113.39	122.24
85	A5	991	C	N1-C1'-C2'	6.61	121.91	112.00
85	A5	2483	G	C3'-C2'-C1'	-6.61	94.69	101.30
85	A5	4810	A	P-O3'-C3'	6.61	130.11	120.20
85	A5	5069	U	N1-C1'-C2'	6.61	121.91	112.00
36	B2	60	A	O4'-C1'-C2'	6.60	114.20	107.60
36	B2	563	G	O4'-C1'-C2'	-6.60	99.20	105.80
36	B2	1570	G	O4'-C1'-N9	6.60	118.41	108.50
44	CM	68	ALA	N-CA-C	6.60	120.59	109.76
85	A5	6	C	N1-C1'-C2'	6.60	121.91	112.00
85	A5	2267	U	O4'-C1'-C2'	6.60	112.40	105.80
85	A5	4334	U	O4'-C1'-N1	6.60	118.41	108.50
85	A5	4685	U	O4'-C1'-N1	6.60	118.41	108.50
85	A5	384	A	O4'-C1'-C2'	-6.60	101.00	107.60
85	A5	4748	U	N1-C1'-C2'	-6.60	102.10	112.00
25	Af	125	GLU	CB-CA-C	6.60	121.64	111.02
85	A5	902	C	C3'-C2'-C1'	6.60	107.90	101.30
85	A5	2496	G	O4'-C1'-C2'	6.60	114.20	107.60
85	A5	3832	U	O4'-C1'-N1	6.60	118.40	108.50
36	B2	1018	U	C1'-O4'-C4'	-6.60	103.30	109.90
52	CS	162	GLN	N-CA-C	-6.60	96.75	110.80
74	CC	13	GLU	N-CA-CB	-6.60	99.34	110.49
85	A5	2106	G	C3'-C2'-C1'	-6.60	94.70	101.30
36	B2	305	U	C4'-C3'-O3'	6.60	119.29	109.40
85	A5	1615	C	N1-C1'-C2'	6.60	121.89	112.00
2	Ag	212	LYS	CA-C-N	-6.59	111.44	120.28
2	Ag	212	LYS	C-N-CA	-6.59	111.44	120.28
36	B2	741	C	O4'-C1'-N1	6.59	118.09	108.20
85	A5	1357	C	O4'-C1'-C2'	-6.59	101.00	107.60
85	A5	3703	G	N9-C1'-C2'	6.59	121.89	112.00
85	A5	4469	U	N1-C1'-C2'	6.59	121.89	112.00
18	AY	103	SER	CA-C-N	6.59	134.13	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AY	103	SER	C-N-CA	6.59	134.13	121.54
36	B2	1060	A	N9-C1'-C2'	6.59	123.89	114.00
40	CK	104	ILE	CG1-CB-CG2	6.59	130.48	110.70
85	A5	2005	G	O3'-P-O5'	-6.59	94.11	104.00
36	B2	72	C	C1'-C2'-O2'	6.59	121.69	111.80
36	B2	649	U	C1'-O4'-C4'	-6.59	103.31	109.90
36	B2	1399	C	C5'-C4'-C3'	-6.59	106.11	116.00
85	A5	437	G	N9-C1'-C2'	6.59	121.89	112.00
85	A5	1199	G	O4'-C1'-C2'	-6.59	101.01	107.60
85	A5	2409	U	P-O3'-C3'	6.59	130.09	120.20
86	A7	48	G	O3'-P-O5'	-6.59	94.11	104.00
36	B2	1172	U	O4'-C1'-N1	6.59	118.38	108.50
85	A5	6	C	O4'-C1'-C2'	-6.59	101.01	107.60
85	A5	130	C	O4'-C1'-C2'	-6.59	101.01	107.60
36	B2	872	A	O4'-C1'-C2'	6.59	112.39	105.80
85	A5	333	U	O4'-C1'-C2'	-6.59	101.01	107.60
36	B2	912	C	C3'-C2'-C1'	6.59	108.09	101.50
36	B2	1632	G	C2'-C3'-O3'	6.59	119.38	109.50
48	CD	268	ARG	C-N-CD	6.58	152.00	125.00
73	Cl	6	THR	N-CA-C	6.58	119.91	109.50
85	A5	1353	G	N9-C1'-C2'	6.58	121.88	112.00
30	AF	43	GLU	N-CA-C	-6.58	96.78	110.80
36	B2	142	C	O4'-C1'-C2'	6.58	112.38	105.80
36	B2	870	A	O4'-C1'-N9	6.58	118.07	108.20
39	Cq	231	TYR	CA-C-N	6.58	128.07	119.84
39	Cq	231	TYR	C-N-CA	6.58	128.07	119.84
85	A5	942	G	C1'-C2'-O2'	6.58	118.28	108.40
85	A5	1965	G	C2'-C3'-O3'	6.58	123.58	113.70
85	A5	4704	C	O4'-C1'-C2'	-6.58	101.02	107.60
85	A5	3933	G	O4'-C1'-N9	6.58	118.37	108.50
36	B2	369	C	O4'-C1'-N1	6.58	118.07	108.20
36	B2	322	C	O4'-C1'-C2'	-6.58	101.02	107.60
36	B2	1538	C	P-O5'-C5'	-6.58	111.03	120.90
85	A5	4670	C	C3'-C2'-C1'	6.58	107.88	101.30
1	Az	576	VAL	N-CA-C	6.58	117.33	110.62
11	AL	3	ASP	N-CA-C	-6.58	100.69	110.23
36	B2	139	C	O4'-C1'-C2'	-6.58	101.03	107.60
36	B2	825	A	P-O3'-C3'	-6.58	110.34	120.20
36	B2	1219	C	C3'-C2'-C1'	6.57	107.87	101.30
85	A5	302	C	N1-C1'-C2'	6.57	121.86	112.00
85	A5	1470	G	C1'-O4'-C4'	-6.57	103.33	109.90
85	A5	1186	U	C1'-O4'-C4'	6.57	116.47	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Az	851	LEU	N-CA-C	-6.57	105.14	113.02
85	A5	1840	G	O4'-C1'-C2'	6.57	114.17	107.60
85	A5	2400	G	N9-C1'-C2'	6.57	121.86	112.00
85	A5	2615	C	O4'-C1'-C2'	-6.57	101.03	107.60
85	A5	5002	U	C4'-C3'-O3'	-6.57	103.14	113.00
81	CE	60	SER	CA-C-N	6.57	134.09	121.54
81	CE	60	SER	C-N-CA	6.57	134.09	121.54
85	A5	2739	C	P-O3'-C3'	-6.57	110.35	120.20
31	AH	54	GLY	N-CA-C	6.57	120.61	112.73
36	B2	415	A	N9-C1'-C2'	-6.57	102.15	112.00
36	B2	1700	C	O4'-C1'-C2'	-6.57	99.23	105.80
74	CC	36	ILE	CB-CA-C	-6.57	103.44	112.24
74	CC	109	ARG	CA-C-O	-6.57	114.65	121.87
85	A5	2805	C	N1-C1'-C2'	6.57	121.85	112.00
3	AU	48	LEU	N-CA-C	-6.56	104.21	111.82
36	B2	633	C	N1-C1'-C2'	6.56	121.85	112.00
36	B2	1555	U	O4'-C4'-C3'	-6.56	97.44	104.00
85	A5	1725	U	C5'-C4'-C3'	6.56	125.85	116.00
36	B2	1155	U	C5'-C4'-O4'	6.56	118.94	109.10
36	B2	1365	G	P-O5'-C5'	6.56	130.75	120.90
39	Cq	231	TYR	C-N-CD	-6.56	98.09	125.00
48	CD	209	ARG	N-CA-C	6.56	118.23	111.14
50	CR	105	LEU	N-CA-C	-6.56	104.21	111.36
85	A5	754	U	O4'-C1'-N1	6.56	118.34	108.50
85	A5	2330	G	C4'-C3'-O3'	-6.56	103.16	113.00
85	A5	4105	A	C2'-C3'-O3'	-6.56	99.66	109.50
85	A5	4206	C	N1-C1'-C2'	6.56	121.84	112.00
81	CE	115	TYR	CA-C-O	-6.56	111.13	120.51
85	A5	3649	A	O4'-C1'-C2'	-6.56	101.04	107.60
36	B2	1437	C	N1-C1'-C2'	6.56	121.84	112.00
85	A5	339	C	C3'-C2'-C1'	6.56	107.86	101.30
85	A5	1890	G	O4'-C1'-N9	6.56	118.04	108.20
85	A5	2716	C	N1-C1'-C2'	6.56	121.84	112.00
85	A5	2879	A	C1'-O4'-C4'	6.56	116.26	109.70
85	A5	3802	U	O4'-C1'-C2'	6.56	112.36	105.80
85	A5	3888	G	O4'-C1'-C2'	-6.56	101.04	107.60
86	A7	18	C	P-O5'-C5'	-6.56	111.06	120.90
86	A7	46	C	O4'-C1'-C2'	-6.56	101.04	107.60
36	B2	212	C	P-O5'-C5'	6.56	130.74	120.90
85	A5	428	G	O4'-C1'-N9	6.56	118.34	108.50
85	A5	460	C	P-O5'-C5'	6.56	130.74	120.90
86	A7	49	A	P-O5'-C5'	-6.56	111.06	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2071	A	O4'-C1'-C2'	-6.56	101.04	107.60
36	B2	573	U	N1-C1'-C2'	6.55	121.83	112.00
36	B2	1782	G	O5'-C5'-C4'	6.55	121.33	111.50
85	A5	1167	C	C3'-C2'-C1'	6.55	107.86	101.30
85	A5	4746	C	O4'-C1'-C2'	-6.55	101.05	107.60
36	B2	123	G	O4'-C1'-N9	6.55	118.33	108.50
39	Cq	234	VAL	CB-CA-C	6.55	122.03	111.29
87	A8	3	A	P-O3'-C3'	-6.55	110.37	120.20
87	A8	11	C	C3'-C2'-C1'	6.55	107.85	101.30
32	AW	97	ARG	N-CA-C	-6.55	104.14	111.28
36	B2	1482	C	O4'-C1'-C2'	-6.55	101.05	107.60
85	A5	4927	G	P-O3'-C3'	6.55	130.03	120.20
36	B2	335	G	N9-C1'-C2'	-6.55	102.18	112.00
85	A5	4382	G	C1'-O4'-C4'	-6.55	103.35	109.90
85	A5	4888	U	C4'-C3'-O3'	6.55	119.22	109.40
66	Cd	122	VAL	N-CA-C	6.54	122.95	109.34
54	CP	6	LEU	N-CA-CB	6.54	121.55	110.49
85	A5	4288	C	O4'-C1'-C2'	-6.54	101.06	107.60
17	AV	31	SER	CA-C-O	-6.54	113.14	120.66
67	Ce	16	ARG	N-CA-CB	6.54	119.15	110.25
86	A7	85	G	C1'-O4'-C4'	-6.54	103.36	109.90
36	B2	187	G	C1'-O4'-C4'	-6.54	103.36	109.90
85	A5	3974	G	P-O3'-C3'	6.54	130.01	120.20
3	AU	69	PRO	CB-CA-C	-6.54	104.43	111.56
63	CB	76	VAL	N-CA-CB	-6.54	104.80	112.32
85	A5	4449	A	P-O3'-C3'	6.54	130.01	120.20
85	A5	4596	C	C3'-C2'-C1'	6.54	107.84	101.30
1	Az	198	GLY	CA-C-N	6.54	127.50	120.83
1	Az	198	GLY	C-N-CA	6.54	127.50	120.83
36	B2	1212	G	C1'-O4'-C4'	-6.54	103.36	109.90
85	A5	4445	U	N1-C1'-C2'	6.54	121.81	112.00
86	A7	12	U	O4'-C1'-C2'	-6.54	99.26	105.80
27	AE	132	GLY	CA-C-N	6.54	130.65	121.24
27	AE	132	GLY	C-N-CA	6.54	130.65	121.24
36	B2	820	U	O4'-C1'-N1	6.54	118.30	108.50
85	A5	1774	C	O4'-C1'-C2'	-6.54	101.06	107.60
85	A5	2654	C	C3'-C2'-C1'	6.54	107.84	101.30
85	A5	468	U	P-O3'-C3'	6.53	130.00	120.20
36	B2	59	U	O4'-C1'-N1	6.53	118.30	108.50
36	B2	465	A	O3'-P-O5'	-6.53	94.20	104.00
36	B2	839	C	P-O3'-C3'	6.53	130.00	120.20
36	B2	1276	A	N9-C1'-C2'	-6.53	102.20	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1640	C	O4'-C1'-C2'	-6.53	99.27	105.80
85	A5	4051	C	P-O5'-C5'	6.53	130.70	120.90
85	A5	4720	C	C3'-C2'-C1'	6.53	108.03	101.50
33	AI	6	ASP	N-CA-CB	-6.53	99.31	109.69
36	B2	1547	C	O4'-C1'-C2'	-6.53	101.07	107.60
36	B2	1867	U	O4'-C1'-C2'	-6.53	99.27	105.80
85	A5	75	G	C1'-C2'-O2'	-6.53	102.01	111.80
85	A5	1379	C	C2'-C3'-O3'	6.53	119.29	109.50
85	A5	1386	C	O4'-C1'-C2'	-6.53	101.07	107.60
85	A5	2254	G	O4'-C1'-C2'	6.53	114.13	107.60
85	A5	3797	C	C3'-C2'-C1'	6.53	107.83	101.30
36	B2	103	A	C3'-C2'-C1'	-6.53	94.97	101.50
85	A5	714	G	O4'-C1'-C2'	6.53	114.13	107.60
85	A5	4280	A	O4'-C1'-C2'	6.53	114.13	107.60
85	A5	2676	A	O4'-C1'-C2'	-6.52	101.08	107.60
2	Ag	258	ILE	CA-C-N	-6.52	111.92	122.36
2	Ag	258	ILE	C-N-CA	-6.52	111.92	122.36
85	A5	2100	A	O3'-P-O5'	-6.52	94.22	104.00
1	Az	278	THR	CA-C-N	6.52	137.71	121.80
1	Az	278	THR	C-N-CA	6.52	137.71	121.80
36	B2	1244	U	O4'-C1'-N1	6.52	118.28	108.50
36	B2	1800	A	O4'-C1'-C2'	-6.52	101.08	107.60
85	A5	4524	G	C5'-C4'-C3'	-6.52	106.22	116.00
2	Ag	162	ASN	N-CA-C	6.52	113.87	108.07
26	AJ	124	HIS	N-CA-C	-6.52	96.91	110.80
1	Az	60	ARG	N-CA-C	6.52	120.44	108.58
13	AP	17	TYR	N-CA-CB	6.52	121.50	110.49
36	B2	852	G	P-O3'-C3'	6.52	129.98	120.20
39	Cq	65	ILE	CB-CA-C	6.52	120.94	112.14
60	Cr	28	GLU	N-CA-C	6.52	124.21	109.81
85	A5	736	C	C3'-C2'-C1'	6.52	107.82	101.30
85	A5	3279	A	O3'-P-O5'	6.52	113.78	104.00
85	A5	4081	G	O4'-C1'-N9	6.52	118.28	108.50
85	A5	4754	G	O3'-P-O5'	-6.52	94.22	104.00
87	A8	56	G	O4'-C1'-C2'	6.52	114.12	107.60
87	A8	85	U	O4'-C1'-C2'	-6.52	101.08	107.60
19	AZ	52	LYS	N-CA-C	-6.51	96.92	110.80
36	B2	1320	G	C3'-C2'-C1'	-6.51	94.78	101.30
42	CL	47	ALA	CA-C-N	6.51	127.03	119.99
42	CL	47	ALA	C-N-CA	6.51	127.03	119.99
59	CZ	37	PRO	N-CA-CB	6.51	110.09	103.25
85	A5	392	U	O4'-C1'-C2'	-6.51	101.09	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	695	C	C5'-C4'-C3'	6.51	125.77	116.00
85	A5	2590	G	N9-C1'-C2'	6.51	121.77	112.00
15	AB	76	ASN	CA-C-O	-6.51	114.03	121.65
36	B2	288	G	O4'-C1'-C2'	-6.51	101.09	107.60
42	CL	165	LYS	CB-CA-C	-6.51	97.46	110.42
72	Ck	19	ASP	N-CA-C	-6.51	104.97	113.17
85	A5	33	A	N9-C1'-C2'	6.51	121.77	112.00
85	A5	2875	C	C3'-C2'-C1'	6.51	108.01	101.50
85	A5	4471	U	O4'-C1'-C2'	-6.51	101.09	107.60
29	AG	220	ALA	O-C-N	-6.51	113.12	122.36
85	A5	720	G	N9-C1'-C2'	6.51	121.77	112.00
85	A5	1805	A	O4'-C4'-C3'	-6.51	99.59	106.10
85	A5	4200	G	O4'-C1'-C2'	6.51	114.11	107.60
85	A5	2251	G	P-O3'-C3'	6.51	129.96	120.20
85	A5	4633	G	N9-C1'-C2'	-6.51	104.24	114.00
36	B2	744	G	O3'-P-O5'	-6.51	94.24	104.00
36	B2	1740	C	O4'-C1'-C2'	-6.51	101.09	107.60
85	A5	4905	C	O4'-C1'-C2'	-6.51	101.09	107.60
1	Az	195	GLY	CA-C-N	-6.50	111.63	120.87
1	Az	195	GLY	C-N-CA	-6.50	111.63	120.87
36	B2	885	U	O4'-C1'-C2'	-6.50	101.09	107.60
80	CH	129	ARG	CA-C-N	6.50	126.48	119.78
80	CH	129	ARG	C-N-CA	6.50	126.48	119.78
85	A5	2898	G	N9-C1'-C2'	6.50	121.76	112.00
11	AL	151	THR	N-CA-C	-6.50	100.04	113.31
27	AE	258	ALA	O-C-N	-6.50	114.27	122.27
36	B2	1465	A	O4'-C1'-C2'	-6.50	101.10	107.60
36	B2	1568	C	C1'-C2'-O2'	6.50	118.16	108.40
50	CR	80	LYS	N-CA-C	-6.50	105.50	113.50
52	CS	81	TRP	CB-CA-C	6.50	121.39	112.09
85	A5	414	C	O4'-C1'-C2'	-6.50	101.10	107.60
85	A5	639	U	P-O3'-C3'	6.50	129.95	120.20
85	A5	2594	C	O4'-C1'-C2'	-6.50	101.10	107.60
85	A5	4258	C	N1-C1'-C2'	6.50	121.75	112.00
85	A5	1268	G	O4'-C4'-C3'	-6.50	99.60	106.10
36	B2	304	C	C2'-C3'-O3'	6.50	119.25	109.50
36	B2	640	A	C1'-O4'-C4'	-6.50	103.40	109.90
81	CE	185	PRO	CA-C-N	-6.50	109.13	121.54
81	CE	185	PRO	C-N-CA	-6.50	109.13	121.54
82	CG	155	VAL	CA-C-N	-6.50	114.63	123.14
82	CG	155	VAL	C-N-CA	-6.50	114.63	123.14
85	A5	272	U	O4'-C1'-N1	6.50	118.25	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	450	G	C1'-O4'-C4'	6.50	116.40	109.90
85	A5	3812	C	C3'-C2'-C1'	6.50	107.80	101.30
85	A5	4564	A	P-O3'-C3'	6.50	129.95	120.20
36	B2	352	U	C3'-C2'-C1'	6.50	107.80	101.30
40	CK	38	SER	C-N-CD	-6.50	98.36	125.00
85	A5	1305	C	N1-C1'-C2'	6.50	121.74	112.00
85	A5	2258	C	C5'-C4'-O4'	6.50	119.55	109.80
85	A5	4414	A	O4'-C1'-C2'	-6.50	99.30	105.80
85	A5	1330	A	N9-C1'-C2'	6.50	121.74	112.00
85	A5	1404	G	O4'-C1'-N9	6.50	118.24	108.50
85	A5	4524	G	O3'-P-O5'	-6.50	94.26	104.00
86	A7	111	C	O4'-C1'-C2'	-6.50	101.11	107.60
36	B2	445	A	C1'-O4'-C4'	-6.49	103.41	109.90
64	CF	115	ARG	CB-CA-C	-6.49	97.13	110.38
85	A5	3968	U	O4'-C1'-C2'	-6.49	101.11	107.60
48	CD	66	TYR	CA-CB-CG	-6.49	102.21	113.90
81	CE	70	LYS	CB-CG-CD	6.49	126.23	111.30
85	A5	455	C	C5'-C4'-C3'	-6.49	106.26	116.00
85	A5	4762	A	O4'-C1'-N9	6.49	117.94	108.20
7	AM	58	GLU	CA-C-N	6.49	127.95	119.84
7	AM	58	GLU	C-N-CA	6.49	127.95	119.84
20	Aa	99	PRO	CA-C-N	-6.49	111.75	122.79
20	Aa	99	PRO	C-N-CA	-6.49	111.75	122.79
30	AF	27	ASP	CA-C-N	-6.49	115.14	123.19
30	AF	27	ASP	C-N-CA	-6.49	115.14	123.19
36	B2	1330	G	O4'-C1'-C2'	6.49	112.29	105.80
85	A5	2821	U	O4'-C1'-N1	6.49	118.23	108.50
74	CC	296	PRO	N-CA-C	-6.49	99.11	112.47
85	A5	949	G	O4'-C1'-C2'	6.49	114.08	107.60
85	A5	3607	U	N1-C1'-C2'	6.49	121.73	112.00
85	A5	4354	U	O4'-C1'-C2'	6.49	112.28	105.80
85	A5	4449	A	C2'-C3'-O3'	6.49	119.23	109.50
85	A5	5013	C	C3'-C2'-C1'	6.49	107.98	101.50
85	A5	274	C	O4'-C1'-C2'	-6.48	101.12	107.60
36	B2	1311	C	C1'-O4'-C4'	-6.48	103.42	109.90
49	CQ	91	ARG	CB-CA-C	6.48	123.86	110.31
85	A5	2790	U	N1-C1'-C2'	6.48	123.72	114.00
85	A5	3711	A	C3'-C2'-C1'	-6.48	94.82	101.30
87	A8	56	G	C1'-O4'-C4'	-6.48	103.42	109.90
1	Az	420	LEU	N-CA-C	6.48	118.77	107.49
63	CB	149	ASP	CA-C-N	-6.48	109.16	121.54
63	CB	149	ASP	C-N-CA	-6.48	109.16	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2398	U	C2'-C3'-O3'	6.48	119.22	109.50
36	B2	1363	C	C3'-C2'-C1'	6.48	107.98	101.50
85	A5	4260	U	O4'-C1'-N1	6.48	118.22	108.50
85	A5	1368	A	C5'-C4'-C3'	6.48	125.72	116.00
36	B2	146	G	O4'-C1'-N9	6.48	117.91	108.20
36	B2	1373	C	C3'-C2'-C1'	6.48	107.78	101.30
36	B2	1852	C	N1-C1'-C2'	6.48	121.71	112.00
85	A5	1873	A	C5'-C4'-C3'	-6.48	106.29	116.00
87	A8	54	C	O4'-C1'-C2'	-6.48	101.12	107.60
36	B2	193	C	C2'-C3'-O3'	-6.47	103.99	113.70
85	A5	2765	A	O5'-C5'-C4'	6.47	121.21	111.50
36	B2	1446	A	P-O3'-C3'	6.47	129.91	120.20
78	Co	75	PRO	N-CA-C	-6.47	99.14	112.47
85	A5	2067	C	N1-C1'-C2'	6.47	121.71	112.00
85	A5	2329	U	C1'-O4'-C4'	-6.47	103.43	109.90
85	A5	4665	A	C5'-C4'-C3'	-6.47	106.29	116.00
85	A5	2387	G	C1'-O4'-C4'	-6.47	103.43	109.90
85	A5	3596	A	C3'-C2'-C1'	6.47	107.77	101.30
85	A5	4367	G	C3'-C2'-C1'	6.47	107.77	101.30
85	A5	5067	U	C5'-C4'-O4'	-6.47	100.09	109.80
11	AL	101	ARG	N-CA-C	-6.47	98.83	108.99
36	B2	362	C	N1-C1'-C2'	6.47	121.70	112.00
36	B2	1420	G	N9-C1'-C2'	6.47	121.70	112.00
36	B2	1544	C	C3'-C2'-C1'	6.47	107.77	101.30
85	A5	50	C	N1-C1'-C2'	6.47	121.70	112.00
36	B2	147	A	C1'-O4'-C4'	6.47	116.17	109.70
36	B2	1486	A	O5'-C5'-C4'	-6.47	101.80	111.50
85	A5	3734	U	O4'-C1'-C2'	-6.47	101.13	107.60
5	AO	149	ARG	N-CA-C	-6.47	100.26	109.96
36	B2	400	C	O4'-C1'-C2'	-6.47	99.33	105.80
81	CE	219	LYS	CB-CA-C	-6.47	97.55	110.42
85	A5	2020	U	C1'-O4'-C4'	6.47	116.37	109.90
85	A5	4608	G	N9-C1'-C2'	6.47	121.70	112.00
17	AV	67	ASP	N-CA-CB	-6.46	100.70	110.07
36	B2	987	A	O4'-C1'-C2'	-6.46	101.14	107.60
36	B2	1171	G	O4'-C1'-N9	6.46	117.90	108.20
27	AE	202	PRO	N-CA-C	-6.46	101.50	111.13
53	CT	18	PRO	N-CA-C	6.46	125.78	112.47
85	A5	1215	C	O4'-C1'-C2'	-6.46	101.14	107.60
85	A5	142	G	C2'-C3'-O3'	6.46	119.19	109.50
85	A5	2803	U	N1-C1'-C2'	6.46	121.69	112.00
85	A5	1478	C	C3'-C2'-C1'	6.46	107.76	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2292	C	C3'-C2'-C1'	6.46	107.76	101.30
85	A5	3838	U	O4'-C1'-N1	6.46	118.19	108.50
85	A5	5008	C	N1-C1'-C2'	6.46	121.69	112.00
85	A5	641	G	O4'-C1'-N9	6.46	118.19	108.50
85	A5	1855	G	O4'-C1'-C2'	6.46	114.06	107.60
85	A5	5047	C	O4'-C1'-N1	6.46	117.89	108.20
18	AY	34	THR	N-CA-C	6.46	124.55	110.80
28	AC	231	ALA	O-C-N	-6.46	114.00	122.39
71	Cj	87	LYS	N-CA-C	-6.45	97.06	110.80
85	A5	3967	G	C3'-C2'-C1'	-6.45	94.85	101.30
54	CP	64	ASN	N-CA-C	6.45	122.04	114.04
85	A5	405	U	O4'-C1'-N1	6.45	118.18	108.50
85	A5	460	C	C3'-C2'-C1'	6.45	107.75	101.30
85	A5	2660	A	N9-C1'-C2'	6.45	123.67	114.00
85	A5	2771	G	C4'-C3'-C2'	-6.45	96.15	102.60
85	A5	4224	A	O4'-C1'-C2'	-6.45	101.15	107.60
36	B2	885	U	O4'-C1'-N1	6.45	118.17	108.50
85	A5	27	C	N1-C1'-C2'	6.45	121.67	112.00
85	A5	426	A	O4'-C1'-C2'	-6.45	101.15	107.60
85	A5	502	C	C3'-C2'-C1'	6.45	107.75	101.30
36	B2	1010	G	C3'-C2'-C1'	-6.45	94.85	101.30
36	B2	554	A	C3'-C2'-C1'	-6.45	94.85	101.30
36	B2	789	G	O4'-C1'-N9	6.45	118.17	108.50
36	B2	1552	G	P-O5'-C5'	6.45	130.57	120.90
68	Cf	100	ARG	CA-C-O	-6.45	114.53	121.94
13	AP	53	GLN	CB-CA-C	6.44	121.57	110.94
60	Cr	112	ARG	N-CA-C	6.44	118.30	111.28
36	B2	378	U	N1-C1'-C2'	6.44	121.67	112.00
36	B2	1716	C	O4'-C1'-C2'	-6.44	101.16	107.60
85	A5	679	C	O4'-C1'-C2'	-6.44	101.16	107.60
85	A5	1066	G	O4'-C1'-C2'	-6.44	101.16	107.60
85	A5	2012	A	N9-C1'-C2'	6.44	121.66	112.00
85	A5	5014	A	N9-C1'-C2'	6.44	121.66	112.00
36	B2	1432	U	N1-C1'-C2'	6.44	121.66	112.00
37	BC	17	G	O4'-C4'-C3'	6.44	112.54	106.10
67	Ce	19	LYS	N-CA-C	6.44	119.29	111.82
85	A5	118	C	O4'-C4'-C3'	6.44	110.44	104.00
4	AK	43	LEU	N-CA-C	-6.44	97.09	110.80
26	AJ	186	GLY	CA-C-N	6.44	133.93	122.08
26	AJ	186	GLY	C-N-CA	6.44	133.93	122.08
31	AH	135	PHE	CA-CB-CG	-6.44	107.36	113.80
41	CO	201	LEU	N-CA-C	6.44	118.09	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3878	C	O4'-C1'-C2'	-6.44	99.36	105.80
16	AA	97	THR	CA-C-N	6.43	127.88	119.84
16	AA	97	THR	C-N-CA	6.43	127.88	119.84
36	B2	335	G	C1'-C2'-O2'	6.43	118.05	108.40
37	BC	4	A	C3'-C2'-C1'	6.43	107.73	101.30
85	A5	2831	G	C3'-C2'-C1'	-6.43	94.87	101.30
87	A8	129	C	C3'-C2'-C1'	6.43	107.73	101.30
27	AE	13	ALA	N-CA-C	-6.43	103.87	112.94
36	B2	54	A	N9-C1'-C2'	6.43	121.65	112.00
38	Cz	24	LYS	CB-CA-C	-6.43	100.87	111.68
48	CD	270	LYS	O-C-N	-6.43	115.44	122.07
82	CG	100	HIS	N-CA-CB	6.43	120.21	110.30
85	A5	1174	G	O4'-C1'-N9	6.43	118.15	108.50
85	A5	2686	G	O4'-C1'-N9	6.43	118.15	108.50
85	A5	4111	U	O4'-C1'-N1	6.43	118.15	108.50
68	Cf	79	GLY	CA-C-N	-6.43	111.34	122.79
68	Cf	79	GLY	C-N-CA	-6.43	111.34	122.79
85	A5	281	U	O4'-C1'-N1	6.43	118.15	108.50
85	A5	4395	U	O4'-C1'-N1	6.43	117.85	108.20
87	A8	124	U	O4'-C1'-C2'	-6.43	99.37	105.80
85	A5	200	U	O4'-C1'-C2'	-6.43	101.17	107.60
85	A5	443	G	C4'-C3'-O3'	-6.43	103.36	113.00
85	A5	3943	A	C1'-O4'-C4'	6.43	116.33	109.90
85	A5	4893	A	C3'-C2'-C1'	6.43	107.73	101.30
36	B2	1623	A	C3'-C2'-C1'	-6.43	94.87	101.30
85	A5	150	U	P-O3'-C3'	6.43	129.84	120.20
85	A5	1897	A	O4'-C1'-N9	6.43	118.14	108.50
18	AY	122	LYS	N-CA-C	-6.43	104.28	111.28
36	B2	530	U	C2'-C3'-O3'	-6.43	104.06	113.70
36	B2	1108	G	O4'-C1'-N9	6.43	118.14	108.50
36	B2	1254	C	O4'-C1'-C2'	-6.43	101.17	107.60
37	BC	28	G	C4'-C3'-C2'	-6.43	96.17	102.60
82	CG	133	PRO	CB-CA-C	-6.43	103.08	110.92
85	A5	66	A	O4'-C1'-C2'	-6.43	101.17	107.60
85	A5	1542	U	O4'-C1'-C2'	-6.43	101.17	107.60
85	A5	4060	U	O4'-C1'-N1	6.43	118.14	108.50
36	B2	313	A	O3'-P-O5'	6.42	113.64	104.00
53	CT	18	PRO	CA-C-O	6.42	132.29	120.60
85	A5	1411	C	O4'-C1'-C2'	-6.42	101.17	107.60
36	B2	57	U	O4'-C1'-C2'	-6.42	101.18	107.60
36	B2	530	U	O5'-C5'-C4'	6.42	121.13	111.50
36	B2	792	C	N1-C1'-C2'	6.42	121.63	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1418	C	O4'-C4'-C3'	-6.42	99.68	106.10
52	CS	151	LYS	N-CA-C	-6.42	97.12	110.80
85	A5	77	U	O4'-C1'-C2'	-6.42	101.18	107.60
85	A5	1848	C	O4'-C1'-C2'	-6.42	101.18	107.60
85	A5	3601	C	O4'-C1'-C2'	-6.42	101.18	107.60
5	AO	105	THR	N-CA-C	6.42	118.28	111.28
36	B2	734	C	N1-C1'-C2'	6.42	121.63	112.00
39	Cq	86	VAL	N-CA-C	6.42	117.96	108.65
36	B2	503	C	O4'-C1'-C2'	-6.42	99.38	105.80
36	B2	1660	C	C4'-C3'-O3'	-6.42	103.37	113.00
44	CM	33	GLN	CB-CA-C	6.42	121.13	110.92
85	A5	1934	A	O4'-C1'-C2'	-6.42	101.18	107.60
85	A5	4243	C	O4'-C1'-C2'	-6.42	101.18	107.60
37	BC	11	C	C3'-C2'-C1'	6.42	107.72	101.30
51	CA	64	ARG	CA-C-O	-6.42	113.43	120.30
36	B2	857	U	P-O5'-C5'	-6.42	111.28	120.90
42	CL	3	PRO	CA-C-N	6.41	129.16	120.38
42	CL	3	PRO	C-N-CA	6.41	129.16	120.38
47	CI	206	LEU	CB-CG-CD2	6.41	129.94	110.70
85	A5	123	C	C3'-C2'-C1'	6.41	107.71	101.30
4	AK	18	GLU	N-CA-C	6.41	118.35	111.36
85	A5	4089	G	O4'-C1'-N9	6.41	118.12	108.50
42	CL	61	CYS	N-CA-C	6.41	119.94	108.47
85	A5	2114	G	O4'-C1'-C2'	6.41	114.01	107.60
85	A5	2763	U	C1'-O4'-C4'	-6.41	103.49	109.90
85	A5	3970	G	P-O3'-C3'	6.41	129.82	120.20
85	A5	4189	U	O4'-C1'-N1	6.41	118.11	108.50
85	A5	4570	G	O4'-C1'-N9	6.41	118.12	108.50
17	AV	30	ALA	CA-C-N	6.41	133.11	122.73
17	AV	30	ALA	C-N-CA	6.41	133.11	122.73
66	Cd	113	THR	N-CA-C	6.41	124.45	110.80
82	CG	107	LYS	CA-C-N	6.41	129.70	120.79
82	CG	107	LYS	C-N-CA	6.41	129.70	120.79
82	CG	108	GLN	N-CA-C	6.41	118.84	111.02
36	B2	1806	A	N9-C1'-C2'	6.41	121.61	112.00
85	A5	3777	G	C2'-C3'-O3'	6.41	119.11	109.50
86	A7	24	C	C3'-C2'-C1'	6.41	107.71	101.30
85	A5	1281	G	P-O3'-C3'	6.40	129.81	120.20
11	AL	118	ARG	N-CA-C	6.40	119.04	108.99
36	B2	688	U	C1'-C2'-O2'	6.40	121.40	111.80
60	Cr	111	ILE	CA-C-O	6.40	127.71	121.05
85	A5	929	A	N9-C1'-C2'	6.40	121.60	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2255	C	P-O3'-C3'	6.40	129.80	120.20
85	A5	2551	A	C4'-C3'-C2'	-6.40	96.20	102.60
24	Ae	47	PRO	CA-N-CD	-6.40	103.04	112.00
36	B2	395	G	C3'-C2'-C1'	-6.40	94.90	101.30
36	B2	687	C	O4'-C1'-C2'	6.40	112.20	105.80
36	B2	1349	G	N9-C1'-C2'	6.40	121.60	112.00
61	Ch	94	ARG	N-CA-C	6.40	118.28	110.41
69	Cg	37	LYS	CA-C-N	-6.40	110.45	121.97
69	Cg	37	LYS	C-N-CA	-6.40	110.45	121.97
85	A5	943	A	P-O3'-C3'	6.40	129.80	120.20
85	A5	1522	G	O4'-C1'-N9	6.40	118.10	108.50
85	A5	4079	C	O4'-C1'-C2'	-6.40	101.20	107.60
36	B2	981	A	C3'-C2'-C1'	6.40	107.70	101.30
85	A5	1378	C	N1-C1'-C2'	6.40	121.60	112.00
12	AR	121	GLN	N-CA-C	6.40	123.95	109.81
36	B2	1474	A	O3'-P-O5'	6.40	113.60	104.00
48	CD	19	LYS	CA-C-O	-6.40	114.75	121.98
73	Cl	36	ARG	CA-C-N	6.40	133.76	121.54
73	Cl	36	ARG	C-N-CA	6.40	133.76	121.54
85	A5	4214	A	O4'-C1'-C2'	-6.40	101.20	107.60
36	B2	1719	A	C1'-O4'-C4'	6.40	116.30	109.90
85	A5	2630	U	O4'-C1'-N1	6.40	118.09	108.50
10	AN	14	SER	CB-CA-C	-6.39	96.41	109.65
36	B2	1759	G	O4'-C1'-N9	6.39	118.09	108.50
36	B2	1823	A	C2'-C3'-O3'	-6.39	99.91	109.50
42	CL	130	LYS	CA-C-N	6.39	127.83	119.84
42	CL	130	LYS	C-N-CA	6.39	127.83	119.84
81	CE	41	LYS	CA-C-O	-6.39	111.40	120.16
85	A5	488	G	P-O3'-C3'	6.39	129.79	120.20
85	A5	4064	C	C1'-O4'-C4'	-6.39	103.50	109.90
85	A5	4492	U	O4'-C1'-C2'	-6.39	101.20	107.60
85	A5	4658	G	N9-C1'-C2'	6.39	121.59	112.00
36	B2	131	C	P-O3'-C3'	6.39	129.79	120.20
36	B2	591	U	O4'-C1'-C2'	6.39	112.19	105.80
57	CY	91	ASN	N-CA-C	-6.39	97.94	108.49
85	A5	1824	G	O5'-C5'-C4'	-6.39	101.91	111.50
85	A5	4161	G	C5'-C4'-C3'	-6.39	106.41	116.00
85	A5	4215	C	N1-C1'-C2'	6.39	121.59	112.00
85	A5	4767	C	O4'-C1'-C2'	-6.39	101.21	107.60
21	Ab	15	GLU	N-CA-C	-6.39	103.83	111.69
36	B2	1266	C	N1-C1'-C2'	6.39	121.58	112.00
85	A5	3254	C	P-O3'-C3'	6.39	129.78	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	839	C	O4'-C1'-N1	6.39	117.78	108.20
85	A5	724	C	C1'-O4'-C4'	6.39	116.29	109.90
85	A5	1769	G	C1'-O4'-C4'	-6.39	103.51	109.90
85	A5	2229	C	P-O3'-C3'	6.39	129.78	120.20
1	Az	76	SER	CA-C-N	-6.38	112.08	122.81
1	Az	76	SER	C-N-CA	-6.38	112.08	122.81
36	B2	20	G	O4'-C1'-N9	6.38	118.08	108.50
48	CD	120	GLU	N-CA-C	6.38	118.32	111.36
50	CR	32	ILE	N-CA-C	6.38	117.17	110.72
60	Cr	108	MET	CA-CB-CG	-6.38	101.33	114.10
85	A5	1000	A	P-O3'-C3'	6.38	129.78	120.20
85	A5	1402	C	O4'-C1'-C2'	-6.38	101.22	107.60
10	AN	142	GLU	CA-C-O	-6.38	113.47	120.36
52	CS	80	ILE	CA-C-N	6.38	133.07	123.24
52	CS	80	ILE	C-N-CA	6.38	133.07	123.24
22	Ac	47	LYS	N-CA-C	6.38	118.03	111.14
36	B2	227	U	O4'-C1'-N1	6.38	117.77	108.20
85	A5	1293	G	N9-C1'-C2'	6.38	121.57	112.00
32	AW	94	LEU	CA-C-N	6.38	125.60	118.97
32	AW	94	LEU	C-N-CA	6.38	125.60	118.97
36	B2	1297	U	O4'-C1'-C2'	-6.38	101.22	107.60
40	CK	29	ALA	CA-C-O	-6.38	112.67	118.79
45	Ca	119	LYS	CA-C-N	-6.38	110.65	120.86
45	Ca	119	LYS	C-N-CA	-6.38	110.65	120.86
85	A5	715	G	O4'-C1'-C2'	6.38	113.98	107.60
85	A5	5043	A	O4'-C1'-C2'	-6.38	101.22	107.60
87	A8	19	C	P-O3'-C3'	-6.38	110.63	120.20
33	AI	104	ILE	N-CA-C	6.38	122.60	109.34
36	B2	1375	G	O4'-C1'-C2'	-6.38	101.22	107.60
49	CQ	6	ARG	N-CA-C	-6.38	104.66	112.88
49	CQ	19	LYS	CB-CA-C	-6.38	97.73	110.42
81	CE	33	LYS	CA-CB-CG	6.38	126.85	114.10
10	AN	137	PRO	CA-C-O	-6.38	114.07	121.34
41	CO	185	VAL	CA-C-N	6.38	128.73	120.44
41	CO	185	VAL	C-N-CA	6.38	128.73	120.44
85	A5	674	G	O4'-C1'-C2'	6.38	113.97	107.60
85	A5	692	A	C1'-O4'-C4'	6.38	116.28	109.90
1	Az	745	TYR	CA-C-N	6.37	133.71	121.54
1	Az	745	TYR	C-N-CA	6.37	133.71	121.54
4	AK	43	LEU	CA-CB-CG	6.37	138.61	116.30
36	B2	1273	C	P-O3'-C3'	-6.37	110.64	120.20
85	A5	1332	C	O4'-C1'-C2'	-6.37	101.23	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1664	U	N1-C1'-C2'	6.37	121.56	112.00
85	A5	1919	G	C4'-C3'-O3'	6.37	118.96	109.40
85	A5	1928	C	C1'-C2'-O2'	-6.37	102.24	111.80
85	A5	2482	C	O4'-C1'-C2'	-6.37	101.23	107.60
85	A5	3657	U	O4'-C1'-N1	6.37	118.06	108.50
4	AK	43	LEU	CA-C-N	-6.37	109.37	121.54
4	AK	43	LEU	C-N-CA	-6.37	109.37	121.54
13	AP	35	GLN	CA-C-N	-6.37	114.21	123.00
13	AP	35	GLN	C-N-CA	-6.37	114.21	123.00
24	Ae	16	THR	N-CA-C	-6.37	101.74	109.83
36	B2	180	G	O3'-P-O5'	6.37	113.56	104.00
42	CL	48	PRO	CA-C-N	6.37	133.17	121.70
42	CL	48	PRO	C-N-CA	6.37	133.17	121.70
85	A5	130	C	C3'-C2'-C1'	6.37	107.67	101.30
85	A5	1075	G	O4'-C1'-N9	6.37	118.06	108.50
85	A5	4322	G	O4'-C1'-C2'	-6.37	101.23	107.60
29	AG	121	ILE	O-C-N	6.37	128.36	121.10
36	B2	283	G	O4'-C1'-C2'	6.37	113.97	107.60
56	CX	73	HIS	O-C-N	-6.37	113.36	122.41
1	Az	827	ASN	CA-C-N	6.37	132.75	123.13
1	Az	827	ASN	C-N-CA	6.37	132.75	123.13
18	AY	64	PHE	N-CA-CB	-6.37	99.88	110.39
32	AW	98	GLN	N-CA-C	6.37	118.22	111.28
36	B2	124	U	O3'-P-O5'	-6.37	94.45	104.00
36	B2	471	G	O4'-C1'-N9	6.37	117.75	108.20
36	B2	963	A	P-O5'-C5'	-6.37	111.35	120.90
36	B2	1582	C	N1-C1'-C2'	6.37	121.55	112.00
85	A5	197	A	N9-C1'-C2'	6.37	121.55	112.00
85	A5	445	U	O4'-C1'-C2'	-6.37	101.23	107.60
85	A5	3692	A	C1'-O4'-C4'	6.37	116.27	109.90
85	A5	4899	G	N9-C1'-C2'	6.37	121.55	112.00
36	B2	1027	A	O3'-P-O5'	6.37	113.55	104.00
85	A5	4113	U	C1'-O4'-C4'	6.37	116.27	109.90
36	B2	701	G	P-O3'-C3'	6.37	129.75	120.20
52	CS	152	PHE	O-C-N	6.37	128.64	121.32
85	A5	917	A	N9-C1'-C2'	-6.37	104.45	114.00
21	Ab	41	TYR	N-CA-CB	-6.36	102.44	110.90
74	CC	323	ARG	CB-CG-CD	6.36	125.94	111.30
85	A5	1893	C	N1-C1'-C2'	6.36	121.54	112.00
52	CS	174	THR	N-CA-C	6.36	124.35	110.80
85	A5	1850	A	N9-C1'-C2'	6.36	121.54	112.00
85	A5	2398	U	P-O3'-C3'	6.36	129.74	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3690	U	O4'-C1'-N1	6.36	118.04	108.50
36	B2	1239	U	O3'-P-O5'	6.36	113.54	104.00
36	B2	1341	C	O4'-C1'-C2'	-6.36	99.44	105.80
1	Az	47	ALA	O-C-N	6.36	131.05	122.59
19	AZ	94	LYS	N-CA-C	-6.36	98.37	108.73
36	B2	1666	C	O4'-C1'-C2'	-6.36	101.24	107.60
36	B2	1792	G	C1'-O4'-C4'	-6.36	103.54	109.90
85	A5	644	G	O4'-C1'-C2'	6.36	113.96	107.60
2	Ag	213	ASP	N-CA-C	-6.36	104.35	111.28
8	AS	15	VAL	O-C-N	-6.36	116.01	123.00
67	Ce	43	ASN	N-CA-C	6.36	119.83	110.30
85	A5	205	C	N1-C1'-C2'	6.36	121.53	112.00
85	A5	4120	U	C3'-C2'-C1'	6.35	107.85	101.50
85	A5	4662	C	N1-C1'-C2'	6.35	121.53	112.00
36	B2	530	U	P-O3'-C3'	6.35	129.73	120.20
56	CX	53	ARG	N-CA-C	-6.35	100.09	109.11
80	CH	149	ASN	CA-C-N	-6.35	114.04	123.00
80	CH	149	ASN	C-N-CA	-6.35	114.04	123.00
85	A5	134	G	N9-C1'-C2'	6.35	121.53	112.00
85	A5	948	C	C4'-C3'-C2'	-6.35	96.25	102.60
42	CL	52	SER	O-C-N	6.35	131.04	122.59
85	A5	1431	C	P-O3'-C3'	6.35	129.73	120.20
85	A5	5003	U	N1-C1'-C2'	6.35	121.53	112.00
68	Cf	80	ASN	N-CA-CB	-6.35	101.19	110.40
85	A5	333	U	O4'-C1'-N1	6.35	118.02	108.50
53	CT	79	GLN	CB-CA-C	-6.35	97.79	110.42
85	A5	1411	C	P-O5'-C5'	6.35	130.42	120.90
85	A5	4066	U	O4'-C1'-N1	6.35	118.02	108.50
85	A5	4164	C	C4'-C3'-C2'	-6.35	96.25	102.60
1	Az	745	TYR	N-CA-C	6.35	118.82	109.24
16	AA	4	ALA	CA-C-N	6.35	128.69	120.44
16	AA	4	ALA	C-N-CA	6.35	128.69	120.44
36	B2	145	G	O4'-C1'-C2'	6.35	113.95	107.60
58	CW	76	VAL	CB-CA-C	-6.35	100.88	111.29
85	A5	4498	U	O4'-C1'-C2'	-6.35	101.25	107.60
85	A5	4660	G	C1'-O4'-C4'	-6.35	103.55	109.90
21	Ab	36	LYS	O-C-N	-6.34	115.24	122.09
85	A5	302	C	C3'-C2'-C1'	6.34	107.64	101.30
85	A5	1470	G	N9-C1'-C2'	6.34	121.52	112.00
53	CT	142	ARG	N-CA-C	-6.34	100.30	109.31
36	B2	287	U	P-O5'-C5'	6.34	130.41	120.90
36	B2	1433	C	C2'-C3'-O3'	-6.34	104.19	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	965	G	P-O5'-C5'	6.34	130.41	120.90
85	A5	3821	A	N9-C1'-C2'	-6.34	102.49	112.00
80	CH	150	ASP	N-CA-C	6.34	118.74	108.41
85	A5	30	C	O4'-C1'-C2'	-6.34	101.26	107.60
85	A5	2277	C	O4'-C1'-C2'	-6.34	101.26	107.60
85	A5	4882	U	C2'-C3'-O3'	6.34	119.01	109.50
30	AF	46	ALA	O-C-N	-6.34	114.16	122.59
39	Cq	133	GLU	O-C-N	-6.34	114.16	122.59
54	CP	71	ALA	N-CA-C	-6.34	105.51	113.18
85	A5	1679	A	O4'-C1'-C2'	-6.34	99.46	105.80
69	Cg	37	LYS	N-CA-C	-6.34	98.75	108.76
85	A5	226	G	P-O3'-C3'	6.34	129.70	120.20
85	A5	2105	A	O3'-P-O5'	6.34	113.51	104.00
85	A5	2257	C	C5'-C4'-O4'	6.33	118.60	109.10
36	B2	1532	C	N1-C1'-C2'	6.33	121.50	112.00
39	Cq	229	ILE	N-CA-CB	-6.33	102.44	112.07
81	CE	41	LYS	N-CA-CB	6.33	121.64	110.37
85	A5	4155	C	N1-C1'-C2'	6.33	121.50	112.00
85	A5	4863	G	O4'-C1'-N9	6.33	118.00	108.50
36	B2	289	G	O4'-C1'-N9	6.33	118.00	108.50
36	B2	756	C	C4'-C3'-C2'	-6.33	96.27	102.60
36	B2	1811	C	O4'-C1'-C2'	-6.33	101.27	107.60
52	CS	173	ASN	CB-CA-C	-6.33	97.82	110.42
13	AP	37	TYR	CB-CA-C	6.33	123.02	110.42
36	B2	74	G	C4'-C3'-C2'	-6.33	96.27	102.60
56	CX	72	ASP	CA-CB-CG	-6.33	106.27	112.60
85	A5	118	C	P-O3'-C3'	6.33	129.69	120.20
85	A5	657	C	O3'-P-O5'	-6.33	94.51	104.00
85	A5	1349	G	C1'-O4'-C4'	-6.33	103.57	109.90
85	A5	2063	G	C1'-O4'-C4'	-6.33	103.57	109.90
85	A5	2078	C	O4'-C1'-C2'	-6.33	101.27	107.60
85	A5	2397	G	P-O5'-C5'	6.33	130.39	120.90
85	A5	4880	C	P-O3'-C3'	-6.33	110.71	120.20
85	A5	1985	G	P-O5'-C5'	6.33	130.39	120.90
36	B2	1523	C	C4'-C3'-O3'	-6.33	103.51	113.00
53	CT	68	THR	N-CA-C	6.33	118.79	109.24
3	AU	109	GLY	N-CA-C	-6.32	98.19	113.18
36	B2	147	A	O4'-C1'-C2'	-6.32	99.48	105.80
36	B2	970	G	P-O3'-C3'	6.32	129.68	120.20
67	Ce	129	LEU	CA-CB-CG	-6.32	94.17	116.30
85	A5	4463	U	N1-C1'-C2'	6.32	121.48	112.00
60	Cr	103	ARG	N-CA-CB	6.32	121.25	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	444	G	O4'-C1'-N9	6.32	117.98	108.50
85	A5	1861	U	O4'-C1'-C2'	-6.32	101.28	107.60
87	A8	124	U	C4'-C3'-O3'	6.32	118.88	109.40
85	A5	4421	C	C3'-C2'-C1'	6.32	107.62	101.30
36	B2	606	G	O4'-C1'-N9	6.32	117.68	108.20
36	B2	1429	G	N9-C1'-C2'	-6.32	102.52	112.00
1	Az	66	ARG	N-CA-C	-6.32	104.39	111.28
36	B2	1411	G	C1'-C2'-O2'	6.31	117.87	108.40
85	A5	504	G	N9-C1'-C2'	6.31	121.47	112.00
36	B2	797	C	P-O5'-C5'	6.31	130.37	120.90
85	A5	214	G	C3'-C2'-C1'	-6.31	94.99	101.30
85	A5	1401	C	O4'-C1'-N1	6.31	117.97	108.50
85	A5	2121	C	P-O3'-C3'	-6.31	110.73	120.20
85	A5	2709	C	C3'-C2'-C1'	6.31	107.61	101.30
85	A5	4265	U	O4'-C1'-N1	6.31	117.67	108.20
36	B2	754	G	N9-C1'-C2'	6.31	121.47	112.00
85	A5	365	U	O4'-C1'-C2'	-6.31	101.29	107.60
85	A5	2696	A	O4'-C1'-N9	6.31	117.97	108.50
85	A5	2826	U	O4'-C1'-N1	6.31	117.97	108.50
12	AR	84	TYR	N-CA-C	6.31	118.93	110.35
41	CO	182	GLU	CB-CA-C	-6.31	97.86	110.42
36	B2	228	C	N1-C1'-C2'	6.31	123.46	114.00
36	B2	286	U	N1-C1'-C2'	6.31	121.46	112.00
36	B2	1130	G	O4'-C1'-N9	6.31	117.96	108.50
85	A5	1103	C	O4'-C1'-C2'	-6.31	101.29	107.60
85	A5	2317	C	O4'-C1'-C2'	-6.31	101.29	107.60
85	A5	4569	U	O4'-C1'-C2'	-6.31	101.29	107.60
86	A7	33	U	N1-C1'-C2'	6.31	121.46	112.00
86	A7	112	U	O4'-C1'-N1	6.31	117.96	108.50
36	B2	180	G	C2'-C3'-O3'	-6.31	100.04	109.50
36	B2	514	U	N1-C1'-C2'	6.31	121.46	112.00
36	B2	1651	A	N9-C1'-C2'	-6.31	102.54	112.00
49	CQ	90	VAL	O-C-N	-6.31	115.50	121.87
53	CT	136	ARG	N-CA-C	-6.31	97.37	110.80
69	Cg	51	GLY	CA-C-O	-6.30	115.38	121.05
1	Az	248	GLU	N-CA-C	6.30	118.15	111.28
36	B2	1435	C	C5'-C4'-C3'	6.30	125.45	116.00
85	A5	1177	U	O4'-C1'-C2'	-6.30	101.30	107.60
2	Ag	27	PHE	CA-CB-CG	-6.30	107.50	113.80
22	Ac	46	VAL	N-CA-C	6.30	117.55	108.48
85	A5	1681	G	O4'-C1'-C2'	6.30	113.90	107.60
86	A7	48	G	N9-C1'-C2'	6.30	121.45	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1576	G	N9-C1'-C2'	6.30	121.45	112.00
85	A5	2544	G	C5'-C4'-C3'	6.30	125.45	116.00
85	A5	5050	C	C1'-O4'-C4'	-6.30	103.60	109.90
85	A5	1204	C	O4'-C1'-C2'	-6.30	101.30	107.60
85	A5	2109	G	O4'-C1'-C2'	6.30	113.90	107.60
36	B2	1069	U	P-O5'-C5'	-6.30	111.46	120.90
36	B2	1326	U	C1'-O4'-C4'	-6.30	103.40	109.70
29	AG	48	TYR	O-C-N	-6.29	115.29	122.97
85	A5	2317	C	P-O5'-C5'	6.29	130.34	120.90
85	A5	4075	U	O4'-C1'-C2'	-6.29	99.50	105.80
26	AJ	179	LYS	O-C-N	6.29	130.21	122.34
74	CC	221	PHE	N-CA-CB	6.29	119.75	110.56
25	Af	106	TYR	N-CA-C	-6.29	97.40	110.80
36	B2	400	C	C1'-C2'-O2'	-6.29	102.36	111.80
36	B2	1187	G	O4'-C1'-C2'	-6.29	101.31	107.60
75	Cm	119	ASN	N-CA-C	-6.29	104.92	112.59
30	AF	57	ALA	N-CA-C	6.29	118.14	111.28
36	B2	243	C	C4'-C3'-O3'	6.29	118.83	109.40
86	A7	68	C	N1-C1'-C2'	6.29	121.44	112.00
36	B2	417	C	O4'-C1'-C2'	-6.29	101.31	107.60
36	B2	845	G	P-O3'-C3'	-6.29	110.77	120.20
62	Cb	35	VAL	O-C-N	-6.29	114.66	122.52
67	Ce	108	ARG	CG-CD-NE	-6.29	98.16	112.00
85	A5	432	U	O4'-C1'-C2'	6.29	113.89	107.60
22	Ac	55	VAL	N-CA-C	6.29	117.53	108.48
85	A5	1768	C	C3'-C2'-C1'	6.29	107.78	101.50
85	A5	3668	C	N1-C1'-C2'	6.29	121.43	112.00
47	CI	105	CYS	N-CA-C	-6.28	97.42	110.80
81	CE	219	LYS	CD-CE-NZ	6.28	132.00	111.90
85	A5	2675	G	O3'-P-O5'	-6.28	94.58	104.00
85	A5	1825	A	C3'-C2'-C1'	6.28	107.58	101.30
36	B2	1039	C	O4'-C1'-C2'	-6.28	101.32	107.60
39	Cq	263	GLU	CA-C-N	6.28	133.30	121.81
39	Cq	263	GLU	C-N-CA	6.28	133.30	121.81
85	A5	5018	C	C3'-C2'-C1'	6.28	107.58	101.30
85	A5	5018	C	N1-C1'-C2'	6.28	121.42	112.00
36	B2	990	A	C3'-C2'-C1'	6.28	107.78	101.50
48	CD	56	THR	CA-C-N	-6.28	112.66	122.08
48	CD	56	THR	C-N-CA	-6.28	112.66	122.08
85	A5	746	A	N9-C1'-C2'	6.28	121.42	112.00
85	A5	1891	A	N9-C1'-C2'	6.28	121.42	112.00
85	A5	2495	U	O4'-C1'-N1	6.28	117.92	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	164	A	C1'-O4'-C4'	-6.28	103.62	109.90
36	B2	791	C	N1-C1'-C2'	6.28	121.42	112.00
36	B2	1160	U	O3'-P-O5'	6.28	113.42	104.00
36	B2	1301	A	O3'-P-O5'	-6.28	94.58	104.00
74	CC	141	GLY	N-CA-C	-6.28	98.61	112.17
85	A5	468	U	O4'-C1'-N1	6.28	117.92	108.50
85	A5	1731	C	O4'-C1'-C2'	-6.28	101.32	107.60
85	A5	4543	G	O3'-P-O5'	-6.28	94.58	104.00
87	A8	123	U	O4'-C1'-N1	6.28	117.92	108.50
36	B2	378	U	C1'-O4'-C4'	-6.28	103.62	109.90
36	B2	1153	C	O4'-C1'-C2'	6.28	112.08	105.80
48	CD	222	GLN	CA-C-N	6.28	130.64	120.60
48	CD	222	GLN	C-N-CA	6.28	130.64	120.60
78	Co	66	ILE	N-CA-CB	-6.28	100.88	111.23
85	A5	1783	C	C1'-O4'-C4'	-6.28	103.62	109.90
85	A5	1936	C	N1-C1'-C2'	6.28	121.41	112.00
85	A5	2809	G	N9-C1'-C2'	6.28	121.41	112.00
23	AD	142	LEU	O-C-N	-6.27	115.22	123.13
31	AH	34	SER	N-CA-C	-6.27	99.77	109.24
85	A5	1722	C	P-O3'-C3'	6.27	129.61	120.20
85	A5	2589	C	O3'-P-O5'	-6.27	94.59	104.00
36	B2	168	C	O4'-C1'-C2'	-6.27	101.33	107.60
36	B2	541	U	O4'-C1'-N1	6.27	117.91	108.50
36	B2	1711	U	N1-C1'-C2'	6.27	121.41	112.00
81	CE	56	ARG	O-C-N	-6.27	114.25	122.59
85	A5	2279	A	O4'-C1'-C2'	-6.27	101.33	107.60
85	A5	4267	G	O4'-C1'-N9	6.27	117.91	108.50
85	A5	19	G	O4'-C1'-C2'	6.27	113.87	107.60
85	A5	149	A	N9-C1'-C2'	6.27	121.41	112.00
34	AQ	6	PRO	CB-CA-C	-6.27	98.19	110.10
36	B2	1792	G	C3'-C2'-C1'	-6.27	95.03	101.30
47	CI	205	PRO	CA-C-O	6.27	132.01	120.60
10	AN	82	PRO	CA-C-O	6.27	132.01	120.60
36	B2	456	C	C3'-C2'-C1'	6.27	107.57	101.30
60	Cr	66	ARG	CA-CB-CG	6.27	126.64	114.10
85	A5	1818	G	N9-C1'-C2'	6.27	121.40	112.00
85	A5	2799	G	O4'-C1'-C2'	-6.27	101.33	107.60
25	Af	86	THR	N-CA-C	-6.27	97.45	110.80
85	A5	965	G	P-O3'-C3'	6.27	129.60	120.20
85	A5	1809	C	O4'-C1'-N1	6.27	117.90	108.50
85	A5	2461	G	C3'-C2'-C1'	6.27	107.57	101.30
54	CP	92	LEU	CA-C-N	-6.26	110.25	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	CP	92	LEU	C-N-CA	-6.26	110.25	120.71
85	A5	1381	U	O4'-C1'-N1	6.26	117.90	108.50
85	A5	2225	C	C4'-C3'-O3'	6.26	119.40	110.00
85	A5	4927	G	C4'-C3'-O3'	-6.26	103.60	113.00
87	A8	149	G	C3'-C2'-C1'	-6.26	95.03	101.30
24	Ae	18	LYS	N-CA-C	-6.26	101.67	110.50
36	B2	1542	C	C1'-O4'-C4'	-6.26	103.64	109.90
28	AC	61	MET	CB-CG-SD	-6.26	93.92	112.70
36	B2	1411	G	N9-C1'-C2'	6.26	121.39	112.00
49	CQ	40	ASN	CA-C-N	6.26	131.25	122.36
49	CQ	40	ASN	C-N-CA	6.26	131.25	122.36
85	A5	1196	G	C1'-O4'-C4'	-6.26	103.64	109.90
85	A5	1361	G	C4'-C3'-C2'	-6.26	96.34	102.60
85	A5	1384	C	N1-C1'-C2'	6.26	121.39	112.00
85	A5	1397	A	O4'-C1'-N9	6.26	117.89	108.50
87	A8	112	G	C1'-O4'-C4'	-6.26	103.64	109.90
87	A8	154	G	C3'-C2'-C1'	-6.26	95.04	101.30
36	B2	422	U	O4'-C1'-N1	6.26	117.89	108.50
85	A5	2029	A	N9-C1'-C2'	6.26	121.39	112.00
85	A5	4058	U	N1-C1'-C2'	-6.26	102.61	112.00
18	AY	78	SER	CA-C-N	-6.26	110.56	120.63
18	AY	78	SER	C-N-CA	-6.26	110.56	120.63
34	AQ	29	ASN	O-C-N	6.26	128.75	122.12
36	B2	558	G	O3'-P-O5'	-6.26	94.61	104.00
85	A5	1644	C	N1-C1'-C2'	6.26	121.38	112.00
85	A5	1810	G	C1'-O4'-C4'	-6.26	103.64	109.90
36	B2	1275	G	O3'-P-O5'	-6.25	94.62	104.00
36	B2	1844	U	O4'-C1'-N1	6.25	117.88	108.50
51	CA	212	GLY	CA-C-N	6.25	135.44	120.99
51	CA	212	GLY	C-N-CA	6.25	135.44	120.99
60	Cr	36	ASN	CB-CA-C	-6.25	99.78	110.22
60	Cr	56	ASP	N-CA-CB	-6.25	99.87	110.50
67	Ce	14	LYS	CA-C-N	6.25	133.49	121.54
67	Ce	14	LYS	C-N-CA	6.25	133.49	121.54
72	Ck	30	ASP	CA-C-N	-6.25	111.41	120.29
72	Ck	30	ASP	C-N-CA	-6.25	111.41	120.29
85	A5	1100	U	P-O3'-C3'	6.25	129.58	120.20
85	A5	1639	U	N1-C1'-C2'	6.25	121.38	112.00
85	A5	4360	U	N1-C1'-C2'	6.25	121.38	112.00
3	AU	27	ARG	CA-C-N	-6.25	111.81	121.56
3	AU	27	ARG	C-N-CA	-6.25	111.81	121.56
36	B2	456	C	O4'-C1'-C2'	-6.25	101.35	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	CE	39	LYS	N-CA-C	6.25	124.11	110.80
85	A5	4444	C	N1-C1'-C2'	6.25	121.38	112.00
85	A5	4698	C	O4'-C1'-C2'	-6.25	101.35	107.60
36	B2	1259	A	O4'-C1'-N9	6.25	117.88	108.50
36	B2	1278	A	P-O5'-C5'	6.25	130.28	120.90
85	A5	471	A	O4'-C1'-C2'	-6.25	101.35	107.60
86	A7	63	C	O4'-C4'-C3'	-6.25	97.75	104.00
36	B2	985	G	O4'-C1'-C2'	6.25	112.05	105.80
85	A5	932	A	O4'-C1'-C2'	-6.25	101.35	107.60
85	A5	2616	C	N1-C1'-C2'	6.25	121.37	112.00
85	A5	4541	G	O4'-C1'-N9	6.25	117.87	108.50
87	A8	115	G	N9-C1'-C2'	6.25	121.37	112.00
36	B2	556	U	C5'-C4'-C3'	6.25	125.37	116.00
36	B2	1047	C	C3'-C2'-C1'	6.25	107.55	101.30
53	CT	159	MET	CA-C-N	6.25	132.94	121.70
53	CT	159	MET	C-N-CA	6.25	132.94	121.70
85	A5	2563	C	C3'-C2'-C1'	6.25	107.55	101.30
85	A5	2592	U	C1'-O4'-C4'	-6.25	103.66	109.90
85	A5	4562	C	N1-C1'-C2'	6.25	121.37	112.00
38	Cz	103	LEU	CA-C-N	-6.24	112.06	122.17
38	Cz	103	LEU	C-N-CA	-6.24	112.06	122.17
49	CQ	6	ARG	CA-C-N	6.24	133.47	121.54
49	CQ	6	ARG	C-N-CA	6.24	133.47	121.54
59	CZ	35	ASP	O-C-N	6.24	130.89	122.59
85	A5	150	U	N1-C1'-C2'	-6.24	104.64	114.00
85	A5	1911	C	C4'-C3'-O3'	-6.24	103.63	113.00
85	A5	2379	A	O4'-C1'-C2'	-6.24	101.36	107.60
85	A5	5047	C	O4'-C1'-C2'	-6.24	99.56	105.80
36	B2	555	A	O3'-P-O5'	6.24	113.36	104.00
52	CS	153	PRO	N-CA-C	-6.24	99.61	112.47
85	A5	2242	C	O4'-C1'-N1	6.24	117.86	108.50
85	A5	2683	C	C3'-C2'-C1'	6.24	107.54	101.30
85	A5	2780	C	N1-C1'-C2'	6.24	121.36	112.00
36	B2	1192	U	O4'-C1'-N1	6.24	117.86	108.50
44	CM	42	CYS	CA-CB-SG	-6.24	100.05	114.40
81	CE	61	ALA	CA-C-N	6.24	133.69	122.46
81	CE	61	ALA	C-N-CA	6.24	133.69	122.46
85	A5	7	C	C1'-C2'-O2'	6.24	117.76	108.40
36	B2	1665	G	C1'-O4'-C4'	-6.24	103.46	109.70
60	Cr	112	ARG	NH1-CZ-NH2	6.24	127.41	119.30
85	A5	212	A	O4'-C1'-C2'	-6.24	101.36	107.60
85	A5	3869	C	O4'-C1'-C2'	-6.24	101.36	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4137	C	O4'-C1'-C2'	-6.24	101.36	107.60
36	B2	694	G	P-O5'-C5'	6.24	130.26	120.90
36	B2	1524	G	O4'-C4'-C3'	-6.24	97.76	104.00
87	A8	135	C	N1-C1'-C2'	6.24	121.36	112.00
35	Ah	150	GLU	N-CA-C	6.24	124.08	110.80
87	A8	88	A	C1'-O4'-C4'	-6.24	103.67	109.90
36	B2	283	G	N9-C1'-C2'	6.23	121.35	112.00
36	B2	1014	G	C3'-C2'-C1'	-6.23	95.07	101.30
85	A5	472	C	O4'-C1'-C2'	-6.23	101.37	107.60
85	A5	1616	U	O4'-C1'-N1	6.23	117.85	108.50
61	Ch	114	TYR	CA-C-N	-6.23	112.05	119.84
61	Ch	114	TYR	C-N-CA	-6.23	112.05	119.84
66	Cd	119	THR	CA-C-N	-6.23	113.71	122.75
66	Cd	119	THR	C-N-CA	-6.23	113.71	122.75
85	A5	2110	C	O5'-C5'-C4'	6.23	121.05	111.70
87	A8	153	C	O4'-C1'-C2'	6.23	113.83	107.60
36	B2	964	A	C1'-O4'-C4'	6.23	116.13	109.90
36	B2	1547	C	N1-C1'-C2'	6.23	121.35	112.00
85	A5	671	G	O4'-C1'-N9	6.23	117.85	108.50
85	A5	1272	C	O4'-C1'-C2'	-6.23	99.57	105.80
15	AB	56	LYS	CA-C-N	6.23	133.18	121.97
15	AB	56	LYS	C-N-CA	6.23	133.18	121.97
36	B2	1131	G	C5'-C4'-C3'	-6.23	106.66	116.00
81	CE	234	ASP	CA-C-N	6.23	133.44	121.54
81	CE	234	ASP	C-N-CA	6.23	133.44	121.54
85	A5	1755	C	P-O3'-C3'	6.23	129.54	120.20
1	Az	287	ARG	CA-C-N	6.23	128.62	120.28
1	Az	287	ARG	C-N-CA	6.23	128.62	120.28
36	B2	1394	G	N9-C1'-C2'	6.23	121.34	112.00
46	CN	73	ARG	N-CA-C	-6.23	100.51	109.48
36	B2	1751	C	N1-C1'-C2'	6.22	121.34	112.00
36	B2	1777	G	C1'-O4'-C4'	-6.22	103.67	109.90
66	Cd	111	VAL	CB-CA-C	-6.22	101.08	111.29
85	A5	289	C	N1-C1'-C2'	6.22	121.34	112.00
85	A5	2349	A	P-O3'-C3'	6.22	129.54	120.20
85	A5	4349	C	OP2-P-O3'	6.22	126.67	108.00
85	A5	4757	C	O3'-P-O5'	-6.22	94.66	104.00
81	CE	60	SER	CA-CB-OG	6.22	123.54	111.10
85	A5	72	C	O4'-C1'-C2'	-6.22	99.58	105.80
30	AF	81	ARG	O-C-N	-6.22	115.53	122.12
59	CZ	77	TYR	N-CA-C	-6.22	104.56	111.71
85	A5	2764	A	C1'-O4'-C4'	6.22	116.12	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1202	U	N1-C1'-C2'	-6.22	102.67	112.00
45	Ca	118	PRO	CA-C-O	6.22	131.92	120.60
52	CS	126	ILE	CB-CA-C	-6.22	104.57	111.35
85	A5	1051	G	O4'-C1'-N9	6.22	117.83	108.50
85	A5	4065	G	O4'-C1'-N9	6.22	117.83	108.50
85	A5	4539	U	C3'-C2'-C1'	6.22	107.52	101.30
36	B2	369	C	N1-C1'-C2'	6.21	123.32	114.00
36	B2	1519	U	O4'-C1'-C2'	-6.21	99.58	105.80
37	BC	64	C	O4'-C1'-N1	6.21	117.82	108.50
85	A5	2254	G	C5'-C4'-C3'	6.21	125.32	116.00
36	B2	1555	U	O4'-C1'-N1	6.21	117.82	108.50
85	A5	1408	G	P-O5'-C5'	6.21	130.22	120.90
85	A5	2106	G	O4'-C4'-C3'	-6.21	97.79	104.00
85	A5	2469	C	O4'-C1'-C2'	-6.21	101.39	107.60
52	CS	28	TYR	N-CA-C	-6.21	100.75	109.69
81	CE	28	LYS	CA-C-N	6.21	133.40	121.54
81	CE	28	LYS	C-N-CA	6.21	133.40	121.54
83	Ct	24	THR	N-CA-C	6.21	116.27	108.45
85	A5	1442	C	O4'-C4'-C3'	-6.21	97.79	104.00
4	AK	37	ASP	CA-C-N	6.21	133.39	121.54
4	AK	37	ASP	C-N-CA	6.21	133.39	121.54
36	B2	35	C	C3'-C2'-C1'	6.21	107.51	101.30
36	B2	530	U	O4'-C1'-N1	6.21	117.81	108.50
36	B2	1224	G	N9-C1'-C2'	6.21	121.31	112.00
37	BC	31	C	O4'-C1'-C2'	-6.21	101.39	107.60
42	CL	17	ASP	CA-C-N	-6.21	112.48	121.98
42	CL	17	ASP	C-N-CA	-6.21	112.48	121.98
85	A5	4069	U	O4'-C1'-N1	6.21	117.81	108.50
6	AX	24	ASP	N-CA-CB	6.20	119.45	109.28
36	B2	860	G	N9-C1'-C2'	6.20	121.31	112.00
85	A5	377	A	C2'-C3'-O3'	-6.20	104.39	113.70
85	A5	3875	G	O4'-C1'-C2'	-6.20	101.40	107.60
26	AJ	35	TYR	CA-C-N	6.20	133.56	121.41
26	AJ	35	TYR	C-N-CA	6.20	133.56	121.41
37	BC	54	U	C5'-C4'-C3'	-6.20	106.70	116.00
67	Ce	3	ALA	N-CA-C	6.20	121.05	111.56
85	A5	655	C	O3'-P-O5'	6.20	113.30	104.00
85	A5	5010	U	O4'-C1'-N1	6.20	117.80	108.50
4	AK	46	MET	CB-CA-C	-6.20	101.15	110.88
20	Aa	49	ALA	N-CA-C	6.20	118.83	111.33
36	B2	446	G	C3'-C2'-C1'	6.20	107.50	101.30
36	B2	821	G	O4'-C1'-N9	6.20	117.50	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	CY	50	ARG	N-CA-C	6.20	118.49	109.07
85	A5	1350	C	O4'-C1'-C2'	-6.20	101.40	107.60
85	A5	1811	G	O3'-P-O5'	-6.20	94.70	104.00
85	A5	2499	C	C4'-C3'-C2'	-6.20	96.40	102.60
85	A5	2577	C	N1-C1'-C2'	6.20	121.30	112.00
86	A7	63	C	C3'-C2'-C1'	6.20	107.50	101.30
85	A5	2267	U	C2'-C3'-O3'	6.20	118.80	109.50
85	A5	4141	G	C1'-O4'-C4'	-6.20	103.70	109.90
87	A8	142	U	O4'-C1'-N1	6.20	117.79	108.50
25	Af	144	CYS	N-CA-C	-6.19	97.61	110.80
36	B2	808	A	N9-C1'-C2'	6.19	121.29	112.00
36	B2	1293	A	C3'-C2'-C1'	6.19	107.49	101.30
36	B2	1635	C	O4'-C1'-C2'	-6.19	101.41	107.60
70	Ci	76	ARG	N-CA-C	6.19	118.11	111.36
85	A5	1390	G	O4'-C1'-C2'	6.19	113.79	107.60
85	A5	2609	G	O4'-C1'-N9	6.19	117.79	108.50
85	A5	4546	A	N9-C1'-C2'	6.19	121.29	112.00
26	AJ	164	PRO	N-CD-CG	-6.19	93.92	103.20
36	B2	325	C	P-O3'-C3'	6.19	129.49	120.20
36	B2	1053	C	O4'-C1'-C2'	-6.19	101.41	107.60
36	B2	1782	G	O4'-C4'-C3'	-6.19	97.81	104.00
85	A5	1382	G	N9-C1'-C2'	6.19	121.29	112.00
85	A5	1592	G	O4'-C1'-C2'	-6.19	101.41	107.60
85	A5	1855	G	N9-C1'-C2'	6.19	121.29	112.00
87	A8	20	A	P-O3'-C3'	-6.19	110.91	120.20
85	A5	2494	U	P-O3'-C3'	6.19	129.48	120.20
20	Aa	63	VAL	N-CA-C	6.19	122.21	109.34
36	B2	1508	A	C1'-O4'-C4'	6.19	115.89	109.70
85	A5	2588	C	O4'-C1'-C2'	-6.19	101.41	107.60
85	A5	2635	U	O4'-C1'-C2'	-6.19	101.41	107.60
1	Az	852	ASP	CA-CB-CG	6.18	118.78	112.60
4	AK	95	ARG	N-CA-C	6.18	123.97	110.80
36	B2	854	A	O5'-C5'-C4'	-6.18	102.22	111.50
36	B2	1101	U	O4'-C1'-N1	6.18	117.78	108.50
85	A5	499	G	C4'-C3'-C2'	-6.18	96.42	102.60
85	A5	956	A	P-O5'-C5'	6.18	130.18	120.90
85	A5	1193	C	P-O3'-C3'	6.18	129.48	120.20
85	A5	2015	U	P-O3'-C3'	-6.18	110.92	120.20
86	A7	119	U	O4'-C1'-N1	6.18	117.78	108.50
36	B2	1030	A	O4'-C1'-C2'	-6.18	101.42	107.60
36	B2	1410	C	C3'-C2'-C1'	6.18	107.48	101.30
36	B2	1637	A	C1'-O4'-C4'	6.18	115.88	109.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	CL	21	ARG	N-CA-C	6.18	119.56	112.57
85	A5	472	C	C3'-C2'-C1'	6.18	107.48	101.30
85	A5	1460	C	O4'-C1'-C2'	-6.18	101.42	107.60
85	A5	2034	G	N9-C1'-C2'	6.18	121.28	112.00
85	A5	2648	G	O4'-C1'-N9	6.18	117.47	108.20
36	B2	1322	G	O4'-C1'-C2'	-6.18	101.42	107.60
36	B2	1676	U	O4'-C1'-N1	6.18	117.77	108.50
39	Cq	206	ILE	N-CA-CB	-6.18	101.03	111.23
80	CH	106	GLN	N-CA-C	6.18	117.96	109.18
85	A5	1208	G	O4'-C1'-C2'	6.18	113.78	107.60
85	A5	1578	U	C5'-C4'-O4'	6.18	119.07	109.80
85	A5	1601	A	O4'-C1'-C2'	-6.18	99.62	105.80
85	A5	2082	G	C1'-O4'-C4'	-6.18	103.72	109.90
85	A5	4556	U	C3'-C2'-C1'	6.18	107.68	101.50
85	A5	4910	G	O3'-P-O5'	-6.18	94.73	104.00
15	AB	155	TYR	CB-CA-C	-6.18	97.02	109.68
36	B2	1376	A	O4'-C1'-N9	6.18	117.77	108.50
85	A5	940	C	C3'-C2'-C1'	6.18	107.48	101.30
85	A5	2924	A	P-O3'-C3'	6.18	129.47	120.20
26	AJ	40	LYS	CA-C-N	-6.18	112.00	120.28
26	AJ	40	LYS	C-N-CA	-6.18	112.00	120.28
36	B2	545	A	O4'-C1'-C2'	-6.18	101.42	107.60
36	B2	1757	G	C1'-O4'-C4'	-6.18	103.72	109.90
50	CR	178	GLN	N-CA-C	-6.18	106.72	114.56
81	CE	162	VAL	CA-C-N	-6.18	114.41	122.99
81	CE	162	VAL	C-N-CA	-6.18	114.41	122.99
85	A5	237	G	C3'-C2'-C1'	-6.18	95.12	101.30
85	A5	1102	U	O4'-C1'-N1	6.18	117.77	108.50
85	A5	1360	G	O4'-C1'-C2'	-6.18	101.42	107.60
85	A5	2685	C	C2'-C3'-O3'	6.18	118.76	109.50
36	B2	1314	U	O4'-C1'-N1	6.17	117.76	108.50
85	A5	2831	G	O4'-C1'-N9	6.17	117.76	108.50
85	A5	4486	C	N1-C1'-C2'	6.17	121.26	112.00
85	A5	4902	C	O4'-C1'-C2'	-6.17	101.43	107.60
86	A7	29	C	C5'-C4'-C3'	-6.17	106.74	116.00
63	CB	291	TYR	N-CA-C	6.17	118.87	110.35
1	Az	801	ARG	CB-CA-C	-6.17	100.55	110.79
85	A5	339	C	O4'-C1'-C2'	-6.17	101.43	107.60
85	A5	1375	C	N1-C1'-C2'	6.17	121.26	112.00
85	A5	2706	G	C3'-C2'-C1'	-6.17	95.13	101.30
47	CI	4	ARG	CB-CA-C	-6.17	98.02	110.17
36	B2	1441	U	O4'-C1'-N1	6.17	117.45	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
78	Co	75	PRO	CA-C-O	-6.17	109.37	120.60
85	A5	1052	G	C2'-C3'-O3'	6.17	118.75	109.50
85	A5	1610	C	O4'-C1'-N1	6.17	117.75	108.50
85	A5	1964	A	O3'-P-O5'	6.17	113.25	104.00
85	A5	1997	U	N1-C1'-C2'	6.17	121.25	112.00
85	A5	4579	U	N1-C1'-C2'	6.17	121.25	112.00
55	CU	88	LYS	N-CA-C	-6.17	104.56	111.28
81	CE	41	LYS	CA-C-N	6.17	127.55	119.84
81	CE	41	LYS	C-N-CA	6.17	127.55	119.84
85	A5	676	C	O4'-C1'-N1	6.17	117.75	108.50
85	A5	1676	C	C3'-C2'-C1'	6.17	107.47	101.30
4	AK	42	ASN	CA-CB-CG	6.16	118.76	112.60
33	AI	116	HIS	N-CA-C	6.16	118.08	111.36
85	A5	2563	C	O4'-C1'-C2'	-6.16	101.44	107.60
85	A5	2753	G	P-O5'-C5'	6.16	130.15	120.90
85	A5	4654	C	N1-C1'-C2'	6.16	121.25	112.00
85	A5	4747	C	O4'-C1'-C2'	-6.16	101.44	107.60
29	AG	129	VAL	CA-C-N	6.16	126.48	119.83
29	AG	129	VAL	C-N-CA	6.16	126.48	119.83
85	A5	4145	C	C3'-C2'-C1'	6.16	107.46	101.30
7	AM	101	ARG	CA-C-N	6.16	128.53	120.28
7	AM	101	ARG	C-N-CA	6.16	128.53	120.28
18	AY	94	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
45	Ca	124	VAL	N-CA-C	6.16	116.49	107.37
74	CC	266	THR	N-CA-C	-6.16	100.04	109.65
81	CE	69	TYR	O-C-N	-6.16	115.59	122.12
81	CE	93	THR	CA-C-O	-6.16	110.33	120.80
85	A5	368	C	C1'-O4'-C4'	-6.16	103.74	109.90
6	AX	23	HIS	N-CA-C	-6.16	104.63	111.71
36	B2	1359	U	O4'-C1'-N1	6.16	117.74	108.50
54	CP	64	ASN	CB-CA-C	-6.16	98.19	109.15
85	A5	1287	G	C4'-C3'-O3'	6.16	118.64	109.40
85	A5	2731	C	O4'-C1'-C2'	-6.16	101.44	107.60
85	A5	4606	G	C1'-O4'-C4'	-6.16	103.75	109.90
85	A5	4992	G	C1'-C2'-O2'	6.16	117.63	108.40
11	AL	117	PHE	CA-CB-CG	-6.15	107.65	113.80
36	B2	604	A	C3'-C2'-C1'	6.15	107.45	101.30
85	A5	1645	C	C1'-O4'-C4'	-6.15	103.75	109.90
85	A5	2125	C	C5'-C4'-C3'	6.15	124.43	115.20
33	AI	8	TRP	CG-CD2-CE3	-6.15	127.75	133.90
36	B2	136	C	C5'-C4'-C3'	6.15	124.13	114.90
36	B2	1451	G	C3'-C2'-C1'	6.15	107.45	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	459	C	N1-C1'-C2'	6.15	121.23	112.00
1	Az	393	PRO	CB-CA-C	-6.15	103.03	111.21
36	B2	436	G	O4'-C1'-N9	6.15	117.72	108.50
36	B2	1107	G	O4'-C1'-N9	6.15	117.73	108.50
63	CB	299	ILE	O-C-N	6.15	130.26	122.57
45	Ca	22	ILE	N-CA-C	6.15	116.34	110.74
85	A5	693	C	N1-C1'-C2'	6.15	121.22	112.00
85	A5	2428	A	O4'-C1'-C2'	6.15	111.95	105.80
36	B2	168	C	C3'-C2'-C1'	6.15	107.45	101.30
60	Cr	80	THR	CA-C-N	6.15	132.17	122.21
60	Cr	80	THR	C-N-CA	6.15	132.17	122.21
85	A5	658	C	O4'-C1'-C2'	-6.15	101.45	107.60
85	A5	4123	C	P-O5'-C5'	-6.15	111.68	120.90
85	A5	4540	C	C3'-C2'-C1'	6.15	107.45	101.30
85	A5	4953	G	O4'-C1'-C2'	6.15	113.75	107.60
36	B2	606	G	O4'-C1'-C2'	6.15	111.95	105.80
85	A5	1720	C	O4'-C4'-C3'	-6.15	97.85	104.00
36	B2	614	C	N1-C1'-C2'	6.14	123.22	114.00
36	B2	1032	C	O4'-C1'-C2'	-6.14	101.46	107.60
70	Ci	21	VAL	N-CA-C	6.14	119.09	108.95
85	A5	2092	G	O4'-C1'-C2'	-6.14	101.46	107.60
85	A5	4594	U	N1-C1'-C2'	6.14	121.22	112.00
4	AK	41	PRO	CA-N-CD	-6.14	103.40	112.00
36	B2	1148	A	C1'-C2'-O2'	6.14	121.01	111.80
85	A5	2009	A	P-O5'-C5'	-6.14	111.69	120.90
21	Ab	35	VAL	CA-C-N	6.14	128.79	120.44
21	Ab	35	VAL	C-N-CA	6.14	128.79	120.44
36	B2	353	C	C4'-C3'-C2'	6.14	108.74	102.60
40	CK	104	ILE	N-CA-C	6.14	122.11	109.34
36	B2	1592	C	N1-C1'-C2'	6.14	121.21	112.00
46	CN	198	LEU	CB-CA-C	6.14	119.84	109.84
36	B2	1551	U	C1'-C2'-O2'	6.14	117.61	108.40
85	A5	1688	G	O4'-C1'-C2'	6.14	113.74	107.60
85	A5	2350	U	O4'-C1'-C2'	-6.14	101.46	107.60
36	B2	1713	C	N1-C1'-C2'	6.13	121.20	112.00
70	Ci	1	MET	O-C-N	6.13	132.81	123.00
85	A5	24	G	P-O5'-C5'	-6.13	111.70	120.90
85	A5	342	G	C3'-C2'-C1'	-6.13	95.17	101.30
85	A5	1033	C	P-O3'-C3'	6.13	129.40	120.20
85	A5	1746	A	O4'-C1'-C2'	-6.13	101.47	107.60
85	A5	2264	C	O4'-C1'-C2'	-6.13	101.47	107.60
85	A5	3882	C	N1-C1'-C2'	6.13	121.20	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	888	U	P-O5'-C5'	6.13	130.10	120.90
38	Cz	144	MET	N-CA-C	-6.13	104.22	111.03
46	CN	90	ASN	N-CA-C	6.13	120.90	113.17
85	A5	3924	C	O4'-C1'-C2'	-6.13	101.47	107.60
86	A7	120	U	O3'-P-O5'	6.13	113.20	104.00
85	A5	3623	C	C3'-C2'-C1'	6.13	107.43	101.30
36	B2	451	G	P-O5'-C5'	6.13	130.10	120.90
85	A5	2589	C	C3'-C2'-C1'	6.13	107.43	101.30
2	Ag	212	LYS	N-CA-C	6.13	118.04	111.36
3	AU	27	ARG	O-C-N	-6.13	114.44	122.59
36	B2	1090	C	O4'-C1'-C2'	-6.13	101.47	107.60
85	A5	2362	U	O4'-C1'-C2'	-6.13	101.47	107.60
27	AE	109	PHE	N-CA-C	-6.13	101.23	110.24
36	B2	151	C	O5'-C5'-C4'	-6.13	102.31	111.50
46	CN	177	GLY	N-CA-C	6.13	119.20	111.85
85	A5	165	A	C1'-O4'-C4'	-6.13	103.77	109.90
85	A5	2507	A	C5'-C4'-C3'	-6.13	106.81	116.00
85	A5	4547	C	C2'-C3'-O3'	-6.13	104.51	113.70
74	CC	304	ALA	C-N-CD	-6.12	99.90	125.00
85	A5	335	A	C3'-C2'-C1'	6.12	107.42	101.30
10	AN	12	SER	N-CA-C	-6.12	99.22	108.46
18	AY	7	ILE	CA-C-N	6.12	131.63	123.00
18	AY	7	ILE	C-N-CA	6.12	131.63	123.00
36	B2	1164	G	N9-C1'-C2'	6.12	121.18	112.00
47	CI	203	HIS	N-CA-C	-6.12	100.98	110.10
85	A5	685	C	P-O5'-C5'	6.12	130.08	120.90
85	A5	5058	A	O4'-C1'-C2'	-6.12	101.48	107.60
87	A8	108	A	C1'-O4'-C4'	6.12	116.02	109.90
85	A5	395	A	C1'-O4'-C4'	-6.12	103.78	109.90
85	A5	1179	U	O4'-C1'-N1	6.12	117.68	108.50
85	A5	2790	U	C3'-C2'-C1'	6.12	107.62	101.50
85	A5	4048	A	C1'-O4'-C4'	6.12	115.82	109.70
28	AC	96	PHE	CA-CB-CG	-6.12	107.68	113.80
36	B2	739	C	O3'-P-O5'	-6.12	94.82	104.00
36	B2	1122	A	C4'-C3'-C2'	-6.12	96.48	102.60
48	CD	268	ARG	CA-CB-CG	-6.12	101.86	114.10
85	A5	955	G	O3'-P-O5'	6.12	113.18	104.00
85	A5	2119	C	C2'-C3'-O3'	6.12	118.68	109.50
85	A5	3801	U	O3'-P-O5'	-6.12	94.83	104.00
81	CE	114	ARG	O-C-N	6.12	130.63	122.43
85	A5	3767	C	O5'-C5'-C4'	-6.12	102.33	111.50
85	A5	3886	G	O4'-C1'-N9	6.12	117.67	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4283	G	N9-C1'-C2'	6.12	121.17	112.00
85	A5	4697	U	P-O3'-C3'	6.12	129.37	120.20
2	Ag	95	GLY	N-CA-C	-6.11	102.13	110.20
38	Cz	132	GLY	N-CA-C	-6.11	106.65	115.27
85	A5	1239	C	C2'-C3'-O3'	6.11	118.67	109.50
85	A5	3873	G	C1'-O4'-C4'	-6.11	103.79	109.90
85	A5	4255	A	C1'-O4'-C4'	-6.11	103.79	109.90
23	AD	210	ILE	O-C-N	6.11	129.81	123.03
60	Cr	111	ILE	O-C-N	-6.11	115.90	121.89
85	A5	2704	C	C4'-C3'-C2'	-6.11	96.49	102.60
36	B2	315	C	O4'-C1'-C2'	-6.11	101.49	107.60
36	B2	501	C	P-O3'-C3'	6.11	129.37	120.20
36	B2	1772	C	O4'-C1'-C2'	-6.11	101.49	107.60
85	A5	95	G	O4'-C1'-C2'	-6.11	101.49	107.60
85	A5	1488	G	C5'-C4'-C3'	6.11	125.17	116.00
86	A7	85	G	P-O5'-C5'	-6.11	111.73	120.90
85	A5	2947	G	O3'-P-O5'	-6.11	94.84	104.00
85	A5	4335	C	C3'-C2'-C1'	6.11	107.61	101.50
36	B2	230	A	C1'-O4'-C4'	6.11	116.01	109.90
85	A5	114	G	O4'-C1'-C2'	-6.11	101.49	107.60
85	A5	374	G	C3'-C2'-C1'	-6.11	95.19	101.30
85	A5	696	C	C3'-C2'-C1'	6.11	107.41	101.30
85	A5	4621	C	O4'-C1'-C2'	-6.11	101.49	107.60
85	A5	4990	C	O3'-P-O5'	6.11	113.16	104.00
63	CB	113	GLU	N-CA-CB	6.11	120.81	110.49
74	CC	224	ILE	CA-C-N	6.11	127.47	119.84
74	CC	224	ILE	C-N-CA	6.11	127.47	119.84
85	A5	952	G	N9-C1'-C2'	6.11	121.16	112.00
85	A5	1295	C	N1-C1'-C2'	6.11	123.16	114.00
85	A5	1662	C	O4'-C1'-C2'	-6.11	101.50	107.60
87	A8	145	C	N1-C1'-C2'	6.11	121.16	112.00
36	B2	239	C	O4'-C1'-C2'	-6.10	101.50	107.60
64	CF	97	GLY	O-C-N	-6.10	115.01	122.76
85	A5	499	G	C1'-C2'-O2'	6.10	117.56	108.40
2	Ag	278	SER	N-CA-C	6.10	117.73	111.14
13	AP	122	THR	N-CA-C	-6.10	103.37	111.24
36	B2	1620	A	C1'-O4'-C4'	-6.10	103.60	109.70
53	CT	52	MET	N-CA-C	6.10	120.23	108.45
85	A5	1275	G	O4'-C1'-N9	6.10	117.65	108.50
85	A5	2504	C	O4'-C1'-C2'	-6.10	101.50	107.60
85	A5	3786	U	N1-C1'-C2'	6.10	123.15	114.00
36	B2	1203	G	O4'-C1'-C2'	6.10	113.70	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1537	A	C5'-C4'-C3'	-6.10	106.85	116.00
85	A5	1907	A	O4'-C1'-C2'	6.10	113.70	107.60
36	B2	737	G	N9-C1'-C2'	-6.10	102.85	112.00
66	Cd	110	PRO	O-C-N	6.10	130.88	122.64
85	A5	939	G	N9-C1'-C2'	6.10	121.15	112.00
85	A5	1356	U	N1-C1'-C2'	6.10	121.15	112.00
85	A5	2100	A	O4'-C1'-C2'	-6.10	101.50	107.60
87	A8	30	U	O4'-C1'-N1	6.10	117.65	108.50
1	Az	329	ASP	CA-CB-CG	-6.10	106.50	112.60
3	AU	105	SER	CA-C-O	-6.10	114.77	121.84
36	B2	750	C	N1-C1'-C2'	6.10	121.15	112.00
80	CH	16	VAL	N-CA-C	6.10	118.16	108.89
85	A5	4939	C	O5'-C5'-C4'	6.10	120.65	111.50
87	A8	32	C	C4'-C3'-O3'	-6.10	103.85	113.00
36	B2	1293	A	O4'-C1'-C2'	-6.10	101.50	107.60
85	A5	934	C	C1'-O4'-C4'	6.10	116.00	109.90
1	Az	266	PHE	N-CA-C	-6.09	101.18	110.14
1	Az	540	GLU	N-CA-CB	6.09	118.85	110.01
31	AH	109	ARG	N-CA-C	6.09	123.78	110.80
74	CC	47	ASN	CB-CA-C	6.09	121.85	110.70
85	A5	654	C	C3'-C2'-C1'	6.09	107.39	101.30
85	A5	2753	G	C3'-C2'-C1'	6.09	107.39	101.30
85	A5	4768	G	O4'-C1'-N9	6.09	117.64	108.50
85	A5	4944	C	O4'-C1'-N1	6.09	117.34	108.20
36	B2	285	U	O4'-C1'-C2'	-6.09	101.51	107.60
44	CM	70	GLN	O-C-N	6.09	130.69	122.59
58	CW	72	THR	O-C-N	6.09	130.69	122.59
85	A5	1501	C	C2'-C3'-O3'	-6.09	100.36	109.50
1	Az	56	PHE	N-CA-CB	6.09	120.78	110.49
1	Az	741	MET	N-CA-C	6.09	119.64	109.95
2	Ag	12	LYS	CB-CA-C	-6.09	100.09	114.16
36	B2	149	A	O4'-C1'-C2'	-6.09	101.51	107.60
53	CT	3	ASN	N-CA-C	6.09	123.77	110.80
53	CT	69	GLN	O-C-N	-6.09	114.49	122.59
85	A5	4093	G	C3'-C2'-C1'	-6.09	95.21	101.30
85	A5	4778	C	P-O3'-C3'	6.09	129.34	120.20
87	A8	151	G	O4'-C1'-C2'	-6.09	101.51	107.60
36	B2	635	G	C5'-C4'-C3'	6.09	125.13	116.00
85	A5	3641	U	O4'-C1'-C2'	-6.09	101.51	107.60
85	A5	3663	A	C2'-C3'-O3'	6.09	118.63	109.50
11	AL	100	ASN	N-CA-C	6.09	120.64	107.49
36	B2	347	G	O4'-C1'-C2'	-6.09	101.51	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	570	C	N1-C1'-C2'	6.09	121.13	112.00
36	B2	1788	A	O4'-C1'-C2'	-6.09	101.51	107.60
75	Cm	91	CYS	N-CA-C	6.09	121.59	114.04
85	A5	4652	G	C1'-O4'-C4'	-6.09	103.81	109.90
36	B2	802	A	C1'-C2'-O2'	6.09	117.53	108.40
63	CB	111	SER	N-CA-C	6.09	118.85	108.02
85	A5	262	G	C4'-C3'-C2'	-6.09	96.51	102.60
85	A5	2014	C	O4'-C1'-C2'	-6.09	101.51	107.60
13	AP	23	ASP	N-CA-C	-6.08	103.60	111.02
2	Ag	2	THR	CA-C-N	-6.08	109.92	121.54
2	Ag	2	THR	C-N-CA	-6.08	109.92	121.54
34	AQ	145	TYR	CB-CA-C	-6.08	107.82	116.34
85	A5	1175	A	O4'-C1'-N9	6.08	117.62	108.50
85	A5	2097	U	N1-C1'-C2'	6.08	121.13	112.00
36	B2	1319	U	O4'-C1'-N1	6.08	117.62	108.50
64	CF	21	LYS	O-C-N	-6.08	115.56	122.68
85	A5	2450	G	O4'-C1'-N9	6.08	117.62	108.50
36	B2	1323	U	O4'-C1'-N1	6.08	117.62	108.50
81	CE	127	SER	O-C-N	6.08	130.31	122.89
85	A5	729	G	O4'-C1'-C2'	-6.08	99.72	105.80
36	B2	1414	A	C4'-C3'-O3'	-6.08	103.88	113.00
85	A5	1442	C	C5'-C4'-C3'	6.08	125.12	116.00
85	A5	2070	U	O4'-C1'-N1	6.08	117.32	108.20
87	A8	153	C	C1'-O4'-C4'	-6.08	103.82	109.90
23	AD	113	LEU	N-CA-C	-6.08	97.86	110.80
81	CE	36	LYS	CA-C-O	-6.08	111.83	120.16
1	Az	357	HIS	N-CA-C	6.08	122.15	114.31
16	AA	53	ARG	N-CA-CB	-6.08	101.19	110.12
23	AD	102	ALA	O-C-N	-6.08	115.71	122.03
36	B2	1195	A	O3'-P-O5'	-6.08	94.89	104.00
85	A5	754	U	C1'-O4'-C4'	6.08	115.98	109.90
85	A5	1411	C	N1-C1'-C2'	6.08	121.11	112.00
85	A5	1920	C	N1-C1'-C2'	6.08	121.11	112.00
36	B2	1594	A	C5'-C4'-C3'	6.07	125.11	116.00
36	B2	1864	U	O4'-C1'-C2'	-6.07	101.53	107.60
85	A5	1741	G	O4'-C1'-C2'	6.07	113.67	107.60
85	A5	2042	A	O4'-C1'-N9	6.07	117.31	108.20
87	A8	152	U	C1'-O4'-C4'	-6.07	103.83	109.90
85	A5	3625	G	C3'-C2'-C1'	6.07	107.37	101.30
28	AC	277	HIS	CB-CA-C	-6.07	98.34	110.42
81	CE	93	THR	CA-CB-CG2	6.07	120.82	110.50
36	B2	1525	C	O4'-C1'-C2'	-6.07	101.53	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BC	17	G	C5'-C4'-O4'	6.07	118.20	109.10
85	A5	977	C	O4'-C1'-C2'	-6.07	101.53	107.60
36	B2	649	U	C1'-C2'-O2'	6.07	117.50	108.40
36	B2	1554	C	C4'-C3'-O3'	6.07	122.10	113.00
85	A5	4491	G	N9-C1'-C2'	6.07	121.10	112.00
85	A5	4614	G	O4'-C1'-C2'	6.07	113.67	107.60
55	CU	124	GLU	N-CA-C	-6.06	99.36	109.24
17	AV	9	VAL	CA-C-N	6.06	133.12	121.54
17	AV	9	VAL	C-N-CA	6.06	133.12	121.54
36	B2	162	C	P-O3'-C3'	6.06	129.29	120.20
36	B2	368	U	O4'-C1'-N1	6.06	117.29	108.20
36	B2	1149	A	O4'-C1'-C2'	6.06	111.86	105.80
85	A5	1863	U	O4'-C1'-C2'	-6.06	101.54	107.60
85	A5	2060	G	C1'-O4'-C4'	-6.06	103.84	109.90
85	A5	4417	C	C3'-C2'-C1'	6.06	107.36	101.30
87	A8	83	C	O4'-C1'-C2'	-6.06	99.74	105.80
26	AJ	164	PRO	CB-CA-C	6.06	121.67	112.21
36	B2	163	U	O4'-C4'-C3'	-6.06	97.94	104.00
52	CS	152	PHE	CA-C-N	6.06	127.42	119.84
52	CS	152	PHE	C-N-CA	6.06	127.42	119.84
85	A5	4634	U	O4'-C1'-C2'	-6.06	99.74	105.80
23	AD	145	GLN	N-CA-C	-6.06	104.67	111.28
36	B2	1832	A	P-O5'-C5'	6.06	129.99	120.90
85	A5	926	G	C2'-C3'-O3'	6.06	118.59	109.50
85	A5	1507	C	O4'-C1'-C2'	-6.06	101.54	107.60
85	A5	3269	G	O5'-C5'-C4'	-6.06	101.71	110.80
85	A5	3963	A	C5'-C4'-C3'	-6.06	106.91	116.00
85	A5	4512	U	O3'-P-O5'	-6.06	94.91	104.00
85	A5	4672	A	C1'-O4'-C4'	-6.06	103.84	109.90
32	AW	55	ASP	N-CA-C	-6.06	102.37	110.55
36	B2	1027	A	C2'-C3'-O3'	-6.06	104.61	113.70
81	CE	38	LYS	CA-C-O	-6.06	111.85	120.51
85	A5	469	C	N1-C1'-C2'	6.06	121.08	112.00
85	A5	1267	C	O4'-C1'-C2'	-6.06	99.74	105.80
85	A5	2851	G	C1'-O4'-C4'	-6.06	103.84	109.90
85	A5	4284	C	O4'-C1'-C2'	-6.06	101.54	107.60
2	Ag	144	ASP	N-CA-C	6.06	123.70	110.80
36	B2	1787	G	C1'-C2'-O2'	6.06	117.48	108.40
85	A5	508	G	O4'-C1'-N9	6.06	117.58	108.50
85	A5	4544	A	P-O3'-C3'	-6.06	111.12	120.20
15	AB	212	VAL	N-CA-C	-6.05	99.58	108.54
85	A5	910	G	C1'-O4'-C4'	-6.05	103.84	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	974	C	C4'-C3'-O3'	-6.05	103.92	113.00
85	A5	1267	C	C2'-C3'-O3'	6.05	118.58	109.50
85	A5	2788	U	O4'-C1'-C2'	-6.05	99.75	105.80
85	A5	4625	C	P-O3'-C3'	6.05	129.28	120.20
85	A5	4965	U	O4'-C4'-C3'	-6.05	100.05	106.10
85	A5	943	A	C2'-C3'-O3'	6.05	118.58	109.50
85	A5	4329	G	C1'-O4'-C4'	6.05	115.95	109.90
36	B2	500	A	P-O3'-C3'	6.05	129.28	120.20
85	A5	413	G	O5'-C5'-C4'	-6.05	102.62	111.70
85	A5	4765	G	C5'-C4'-C3'	-6.05	106.92	116.00
10	AN	82	PRO	N-CA-C	6.05	124.93	112.47
35	Ah	157	ILE	CA-C-O	-6.05	113.22	120.78
36	B2	1274	G	C3'-C2'-C1'	6.05	107.55	101.50
36	B2	1459	G	O4'-C1'-C2'	6.05	113.65	107.60
82	CG	260	GLU	CA-C-N	-6.05	111.70	120.29
82	CG	260	GLU	C-N-CA	-6.05	111.70	120.29
85	A5	2128	G	C1'-C2'-O2'	6.05	117.47	108.40
85	A5	4316	G	C5'-C4'-C3'	-6.05	106.92	116.00
85	A5	1283	G	N9-C1'-C2'	6.05	121.07	112.00
85	A5	1910	G	N9-C1'-C2'	6.05	121.07	112.00
85	A5	4923	C	O4'-C1'-C2'	-6.05	101.55	107.60
18	AY	99	LYS	N-CA-C	6.05	123.68	110.80
36	B2	1522	A	P-O3'-C3'	-6.05	111.13	120.20
53	CT	13	TYR	CA-CB-CG	-6.05	103.02	113.90
54	CP	63	TYR	O-C-N	6.05	129.66	122.46
85	A5	1215	C	C3'-C2'-C1'	6.05	107.35	101.30
85	A5	4739	C	O4'-C1'-N1	6.05	117.57	108.50
21	Ab	50	ALA	N-CA-C	6.04	121.51	114.62
36	B2	1575	G	C4'-C3'-C2'	-6.04	96.56	102.60
31	AH	85	LYS	N-CA-C	6.04	117.67	111.14
49	CQ	19	LYS	N-CA-C	-6.04	97.93	110.80
69	Cg	46	CYS	O-C-N	6.04	128.53	122.12
70	Ci	4	ARG	N-CA-C	-6.04	97.93	110.80
74	CC	307	LYS	CG-CD-CE	6.04	125.20	111.30
85	A5	684	G	O4'-C1'-C2'	-6.04	101.56	107.60
85	A5	2127	C	C3'-C2'-C1'	6.04	107.34	101.30
36	B2	1262	C	C1'-O4'-C4'	-6.04	103.86	109.90
36	B2	1394	G	C2'-C3'-O3'	6.04	122.76	113.70
36	B2	1839	U	O4'-C1'-N1	6.04	117.56	108.50
85	A5	974	C	O4'-C1'-C2'	-6.04	101.56	107.60
85	A5	1811	G	N9-C1'-C2'	-6.04	104.94	114.00
23	AD	167	TYR	CA-CB-CG	-6.04	103.03	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	14	C	O4'-C1'-C2'	-6.04	101.56	107.60
85	A5	288	G	N9-C1'-C2'	6.04	121.06	112.00
2	Ag	93	THR	CB-CA-C	-6.04	99.46	110.63
13	AP	17	TYR	CA-C-O	-6.04	111.88	120.51
36	B2	535	G	P-O3'-C3'	6.04	129.26	120.20
36	B2	1451	G	O3'-P-O5'	-6.04	94.94	104.00
81	CE	33	LYS	CB-CA-C	-6.04	99.32	109.65
85	A5	2794	C	C1'-O4'-C4'	6.04	115.74	109.70
85	A5	4932	U	P-O3'-C3'	6.04	129.26	120.20
36	B2	1275	G	C5'-C4'-C3'	6.04	125.06	116.00
85	A5	2094	G	P-O3'-C3'	-6.04	111.14	120.20
87	A8	47	C	O4'-C1'-C2'	-6.04	101.56	107.60
28	AC	72	ASP	CA-CB-CG	-6.04	106.56	112.60
36	B2	1286	G	O3'-P-O5'	-6.04	94.95	104.00
12	AR	25	GLY	CA-C-N	6.03	130.80	120.72
12	AR	25	GLY	C-N-CA	6.03	130.80	120.72
36	B2	745	C	C5'-C4'-C3'	6.03	125.05	116.00
36	B2	1622	U	C1'-C2'-O2'	-6.03	102.75	111.80
36	B2	1812	U	O4'-C1'-N1	6.03	117.55	108.50
44	CM	46	ARG	CA-CB-CG	6.03	126.17	114.10
45	Ca	117	LEU	CA-C-N	6.03	127.38	119.84
45	Ca	117	LEU	C-N-CA	6.03	127.38	119.84
58	CW	27	LYS	CB-CA-C	-6.03	98.35	110.30
74	CC	314	LEU	CA-C-N	6.03	131.99	122.21
74	CC	314	LEU	C-N-CA	6.03	131.99	122.21
81	CE	41	LYS	O-C-N	-6.03	114.38	121.32
85	A5	93	G	P-O5'-C5'	-6.03	111.85	120.90
36	B2	342	C	C3'-C2'-C1'	6.03	107.33	101.30
36	B2	1523	C	P-O5'-C5'	-6.03	111.85	120.90
85	A5	693	C	C4'-C3'-C2'	-6.03	96.57	102.60
85	A5	1363	C	P-O5'-C5'	6.03	129.95	120.90
85	A5	1802	A	C3'-C2'-C1'	6.03	107.33	101.30
1	Az	806	GLY	O-C-N	-6.03	114.84	122.32
13	AP	121	ILE	CA-C-N	-6.03	111.11	120.88
13	AP	121	ILE	C-N-CA	-6.03	111.11	120.88
26	AJ	89	GLU	CB-CA-C	-6.03	100.73	110.74
36	B2	551	U	O4'-C1'-C2'	6.03	113.63	107.60
49	CQ	12	LYS	CA-C-O	6.03	127.77	121.38
85	A5	327	U	C1'-O4'-C4'	6.03	115.73	109.70
85	A5	1612	G	O4'-C1'-C2'	6.03	111.83	105.80
81	CE	224	LYS	N-CA-C	6.03	123.14	109.81
85	A5	256	G	O4'-C1'-C2'	-6.03	101.57	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	227	U	P-O5'-C5'	6.03	129.94	120.90
36	B2	1605	G	C1'-O4'-C4'	-6.03	103.87	109.90
85	A5	105	A	O4'-C1'-N9	6.03	117.54	108.50
85	A5	1292	C	C3'-C2'-C1'	6.03	107.33	101.30
85	A5	4110	C	C3'-C2'-C1'	6.03	107.33	101.30
36	B2	1422	G	O4'-C1'-N9	6.03	117.54	108.50
36	B2	1532	C	C3'-C2'-C1'	6.03	107.33	101.30
57	CY	112	ASP	N-CA-C	-6.03	100.62	109.18
85	A5	204	U	O4'-C1'-C2'	-6.03	101.58	107.60
85	A5	2253	A	O4'-C4'-C3'	-6.03	97.97	104.00
85	A5	4134	C	C1'-O4'-C4'	-6.03	103.87	109.90
85	A5	4573	G	N9-C1'-C2'	6.03	121.04	112.00
85	A5	5021	C	P-O5'-C5'	6.03	129.94	120.90
86	A7	93	G	O4'-C1'-C2'	6.03	113.63	107.60
36	B2	1235	G	O4'-C1'-N9	6.02	117.54	108.50
1	Az	5	THR	CA-C-O	-6.02	113.97	121.50
36	B2	238	C	N1-C1'-C2'	6.02	121.03	112.00
36	B2	1520	G	C5'-C4'-C3'	6.02	125.03	116.00
81	CE	277	LEU	CA-C-O	-6.02	113.68	120.43
85	A5	18	C	C4'-C3'-O3'	-6.02	103.97	113.00
86	A7	106	G	C1'-O4'-C4'	-6.02	103.88	109.90
85	A5	1325	C	O4'-C1'-N1	6.02	117.23	108.20
1	Az	825	PHE	O-C-N	-6.02	115.59	122.09
31	AH	193	GLN	CA-C-N	6.02	132.54	121.70
31	AH	193	GLN	C-N-CA	6.02	132.54	121.70
36	B2	524	U	O4'-C1'-C2'	-6.02	101.58	107.60
36	B2	580	U	C2'-C3'-O3'	-6.02	104.67	113.70
40	CK	110	VAL	CA-C-N	6.02	134.09	122.53
40	CK	110	VAL	C-N-CA	6.02	134.09	122.53
74	CC	310	HIS	CA-C-N	6.02	133.04	121.54
74	CC	310	HIS	C-N-CA	6.02	133.04	121.54
81	CE	118	THR	N-CA-CB	6.02	120.66	110.49
81	CE	193	PHE	N-CA-C	6.02	117.92	111.36
85	A5	335	A	O4'-C1'-C2'	-6.02	101.58	107.60
85	A5	1441	C	O4'-C1'-C2'	-6.02	101.58	107.60
85	A5	2454	U	O4'-C1'-C2'	-6.02	101.58	107.60
85	A5	2685	C	C4'-C3'-C2'	-6.02	96.58	102.60
23	AD	129	SER	N-CA-C	-6.02	105.04	112.38
36	B2	1002	U	O4'-C1'-C2'	-6.02	101.58	107.60
74	CC	22	VAL	CA-C-N	6.02	133.03	121.54
74	CC	22	VAL	C-N-CA	6.02	133.03	121.54
85	A5	2019	C	O4'-C1'-C2'	-6.02	101.58	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4145	C	P-O5'-C5'	6.02	129.93	120.90
36	B2	1825	A	C2'-C3'-O3'	6.02	122.72	113.70
82	CG	58	PRO	N-CA-C	6.02	124.86	112.47
85	A5	2558	C	O4'-C1'-C2'	-6.02	101.58	107.60
85	A5	2902	G	N9-C1'-C2'	6.02	121.02	112.00
18	AY	36	PRO	CA-C-O	-6.01	114.58	121.56
36	B2	618	C	O4'-C1'-C2'	-6.01	101.58	107.60
39	Cq	45	MET	CB-CA-C	6.01	120.78	110.86
41	CO	182	GLU	CA-C-O	-6.01	111.91	120.51
49	CQ	40	ASN	N-CA-C	6.01	123.61	110.80
55	CU	58	GLY	CA-C-O	6.01	129.76	121.46
66	Cd	121	ASN	O-C-N	-6.01	115.38	122.96
85	A5	403	G	O4'-C1'-C2'	-6.01	101.59	107.60
85	A5	1774	C	C4'-C3'-C2'	-6.01	96.58	102.60
85	A5	2870	A	C3'-C2'-C1'	6.01	107.31	101.30
85	A5	4982	A	C1'-O4'-C4'	6.01	115.91	109.90
36	B2	472	C	N1-C1'-C2'	6.01	121.02	112.00
36	B2	568	C	O4'-C1'-C2'	-6.01	101.59	107.60
36	B2	1063	C	C3'-C2'-C1'	6.01	107.31	101.30
36	B2	1094	C	O4'-C1'-C2'	-6.01	101.59	107.60
85	A5	2443	G	O4'-C1'-C2'	6.01	113.61	107.60
85	A5	4271	A	C1'-O4'-C4'	-6.01	103.89	109.90
13	AP	35	GLN	O-C-N	6.01	129.25	122.22
85	A5	328	A	C1'-O4'-C4'	-6.01	103.89	109.90
85	A5	4693	C	P-O3'-C3'	6.01	129.22	120.20
1	Az	206	ASP	C-N-CD	-6.01	100.36	125.00
1	Az	271	GLY	CA-C-N	-6.01	111.21	121.85
1	Az	271	GLY	C-N-CA	-6.01	111.21	121.85
11	AL	150	GLY	O-C-N	6.01	128.78	122.59
36	B2	800	U	O4'-C1'-N1	6.01	117.51	108.50
85	A5	954	C	N1-C1'-C2'	6.01	121.02	112.00
85	A5	1240	G	O5'-C5'-C4'	6.01	120.51	111.50
85	A5	1853	G	C2'-C3'-O3'	6.01	118.51	109.50
85	A5	2136	G	P-O3'-C3'	6.01	129.22	120.20
85	A5	3880	G	C1'-O4'-C4'	-6.01	103.89	109.90
85	A5	4763	U	C1'-C2'-O2'	-6.01	102.79	111.80
36	B2	406	U	N1-C1'-C2'	6.01	121.01	112.00
36	B2	1365	G	O5'-C5'-C4'	-6.01	102.49	111.50
1	Az	638	LYS	N-CA-C	6.01	117.91	111.36
36	B2	437	G	N9-C1'-C2'	6.01	121.01	112.00
36	B2	1374	C	N1-C1'-C2'	6.01	121.01	112.00
57	CY	52	ASP	N-CA-C	-6.01	104.64	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1452	A	C3'-C2'-C1'	6.00	107.50	101.50
42	CL	5	ARG	N-CA-C	6.00	117.71	109.18
85	A5	2727	C	N1-C1'-C2'	6.00	121.01	112.00
36	B2	453	C	N1-C1'-C2'	6.00	121.01	112.00
36	B2	1024	A	O4'-C1'-C2'	-6.00	101.60	107.60
85	A5	404	U	O4'-C1'-N1	6.00	117.50	108.50
85	A5	4156	G	C3'-C2'-C1'	-6.00	95.30	101.30
85	A5	4865	C	O4'-C1'-C2'	-6.00	101.60	107.60
19	AZ	107	VAL	CA-CB-CG2	6.00	120.60	110.40
36	B2	592	C	N1-C1'-C2'	-6.00	105.00	114.00
36	B2	1417	C	C1'-O4'-C4'	6.00	115.90	109.90
67	Ce	21	ILE	CG1-CB-CG2	-6.00	92.69	110.70
85	A5	363	A	O4'-C1'-N9	6.00	117.20	108.20
85	A5	695	G	N9-C1'-C2'	6.00	121.00	112.00
36	B2	76	U	N1-C1'-C2'	6.00	121.00	112.00
36	B2	1450	G	O4'-C1'-N9	6.00	117.50	108.50
36	B2	1661	A	O5'-C5'-C4'	-6.00	102.50	111.50
65	Cc	86	GLY	N-CA-C	-6.00	106.96	115.30
11	AL	95	TYR	CA-C-N	-6.00	115.09	123.13
11	AL	95	TYR	C-N-CA	-6.00	115.09	123.13
36	B2	1429	G	C3'-C2'-O2'	6.00	119.70	110.70
63	CB	318	GLY	N-CA-C	-6.00	107.94	115.08
72	Ck	6	GLU	O-C-N	6.00	128.86	122.38
85	A5	141	C	C4'-C3'-C2'	-6.00	96.60	102.60
85	A5	226	G	C2'-C3'-O3'	6.00	122.70	113.70
85	A5	421	C	N1-C1'-C2'	6.00	121.00	112.00
85	A5	1525	A	O3'-P-O5'	6.00	113.00	104.00
85	A5	3817	A	C2'-C3'-O3'	6.00	118.50	109.50
87	A8	51	U	O4'-C1'-N1	6.00	117.20	108.20
36	B2	839	C	C1'-C2'-O2'	6.00	120.80	111.80
85	A5	1303	A	C4'-C3'-C2'	-6.00	96.60	102.60
85	A5	1445	U	O4'-C1'-N1	6.00	117.50	108.50
85	A5	4461	C	O4'-C1'-C2'	-6.00	101.60	107.60
36	B2	160	U	C2'-C3'-O3'	6.00	118.49	109.50
36	B2	843	C	O4'-C1'-C2'	-6.00	101.61	107.60
85	A5	4731	G	O3'-P-O5'	-6.00	95.01	104.00
4	AK	40	VAL	CB-CA-C	-5.99	100.45	111.36
36	B2	1483	A	O4'-C1'-C2'	-5.99	101.61	107.60
40	CK	86	LYS	CB-CA-C	-5.99	98.50	110.42
80	CH	51	LYS	N-CA-C	-5.99	102.41	111.34
85	A5	652	G	O4'-C1'-N9	5.99	117.49	108.50
85	A5	2281	U	N1-C1'-C2'	5.99	120.99	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2313	A	O4'-C1'-N9	5.99	117.49	108.50
85	A5	2444	U	N1-C1'-C2'	5.99	120.99	112.00
85	A5	2737	C	N1-C1'-C2'	5.99	120.99	112.00
85	A5	4068	U	N1-C1'-C2'	5.99	120.99	112.00
85	A5	4714	C	C3'-C2'-C1'	5.99	107.29	101.30
1	Az	281	GLU	N-CA-C	-5.99	104.75	111.28
61	Ch	102	LEU	O-C-N	-5.99	115.87	123.06
85	A5	384	A	N9-C1'-C2'	5.99	120.99	112.00
85	A5	430	G	O4'-C1'-C2'	5.99	113.59	107.60
85	A5	2305	U	C1'-O4'-C4'	5.99	115.69	109.70
36	B2	661	U	O4'-C1'-C2'	-5.99	101.61	107.60
36	B2	1064	C	C3'-C2'-C1'	5.99	107.29	101.30
72	Ck	29	LYS	N-CA-C	5.99	121.45	114.62
85	A5	736	C	P-O3'-C3'	5.99	129.19	120.20
85	A5	1455	G	N9-C1'-C2'	5.99	120.99	112.00
85	A5	1900	C	C1'-O4'-C4'	-5.99	103.91	109.90
85	A5	2399	G	O4'-C1'-N9	5.99	117.49	108.50
85	A5	3774	A	N9-C1'-C2'	5.99	120.99	112.00
85	A5	4380	A	O4'-C1'-N9	5.99	117.18	108.20
85	A5	4600	G	O4'-C1'-C2'	-5.99	99.81	105.80
66	Cd	114	PHE	CA-C-N	-5.99	112.86	122.62
66	Cd	114	PHE	C-N-CA	-5.99	112.86	122.62
85	A5	719	C	O4'-C1'-C2'	-5.99	101.61	107.60
85	A5	1298	C	C3'-C2'-C1'	5.99	107.29	101.30
85	A5	1302	U	C2'-C3'-O3'	5.99	122.68	113.70
85	A5	1915	C	C1'-C2'-O2'	5.99	120.78	111.80
85	A5	3968	U	C2'-C3'-O3'	5.99	122.68	113.70
12	AR	90	ALA	N-CA-C	5.99	118.25	110.53
55	CU	97	ARG	N-CA-C	5.99	118.25	110.53
14	AT	42	HIS	ND1-CE1-NE2	5.99	114.39	108.40
36	B2	821	G	P-O3'-C3'	5.99	129.18	120.20
85	A5	1443	A	O3'-P-O5'	5.99	112.98	104.00
36	B2	1772	C	C3'-C2'-C1'	5.98	107.28	101.30
85	A5	1612	G	C2'-C3'-O3'	5.98	118.47	109.50
85	A5	2542	G	O4'-C1'-N9	5.98	117.48	108.50
85	A5	4464	A	O5'-C5'-C4'	-5.98	102.72	111.70
3	AU	108	PRO	CA-N-CD	-5.98	103.63	112.00
6	AX	25	LYS	N-CA-C	5.98	117.80	111.28
29	AG	35	GLU	CA-C-N	-5.98	114.97	123.17
29	AG	35	GLU	C-N-CA	-5.98	114.97	123.17
35	Ah	140	LYS	N-CA-C	5.98	123.03	109.81
36	B2	375	U	O4'-C1'-N1	5.98	117.47	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	804	U	O4'-C1'-N1	5.98	117.47	108.50
36	B2	1055	A	O4'-C1'-C2'	-5.98	101.62	107.60
74	CC	269	LYS	CA-C-N	5.98	132.97	121.54
74	CC	269	LYS	C-N-CA	5.98	132.97	121.54
85	A5	216	C	O4'-C1'-C2'	-5.98	101.62	107.60
85	A5	1629	G	N9-C1'-C2'	5.98	120.97	112.00
85	A5	3773	U	O5'-C5'-C4'	5.98	120.47	111.50
64	CF	21	LYS	N-CA-C	-5.98	101.92	110.59
85	A5	759	G	N9-C1'-C2'	-5.98	103.03	112.00
85	A5	1800	U	N1-C1'-C2'	5.98	120.97	112.00
85	A5	3762	U	O5'-C5'-C4'	-5.98	102.53	111.50
85	A5	3839	G	O4'-C1'-C2'	5.98	111.78	105.80
85	A5	4489	G	C3'-C2'-C1'	5.98	107.28	101.30
85	A5	4982	A	C3'-C2'-C1'	5.98	107.28	101.30
36	B2	824	C	N1-C1'-C2'	5.98	120.97	112.00
36	B2	1304	U	N1-C1'-C2'	5.98	120.97	112.00
85	A5	1259	G	C3'-C2'-C1'	-5.98	95.32	101.30
2	Ag	109	LEU	N-CA-C	5.98	117.88	111.36
25	Af	102	VAL	N-CA-C	5.98	121.77	109.34
85	A5	457	G	O3'-P-O5'	-5.98	95.03	104.00
85	A5	656	C	C2'-C3'-O3'	-5.98	104.73	113.70
85	A5	1093	C	O4'-C1'-C2'	-5.98	101.62	107.60
85	A5	1208	G	C1'-O4'-C4'	-5.98	103.92	109.90
85	A5	2016	C	P-O3'-C3'	5.98	129.17	120.20
85	A5	3873	G	N9-C1'-C2'	5.98	120.97	112.00
48	CD	31	TYR	N-CA-C	-5.98	104.67	111.07
49	CQ	91	ARG	N-CA-CB	-5.98	100.47	110.39
55	CU	77	PRO	CA-C-O	5.98	129.42	121.95
74	CC	44	LEU	CA-C-N	5.98	132.95	121.54
74	CC	44	LEU	C-N-CA	5.98	132.95	121.54
37	BC	69	G	C1'-O4'-C4'	-5.97	103.92	109.90
85	A5	3925	U	O4'-C1'-N1	5.97	117.46	108.50
85	A5	4671	C	C2'-C3'-O3'	5.97	118.46	109.50
36	B2	107	A	O4'-C1'-C2'	-5.97	101.63	107.60
36	B2	1309	C	C3'-C2'-C1'	5.97	107.27	101.30
37	BC	66	U	O4'-C1'-N1	5.97	117.46	108.50
85	A5	479	G	O4'-C1'-N9	5.97	117.46	108.50
85	A5	2820	C	N1-C1'-C2'	5.97	120.96	112.00
85	A5	3892	U	P-O5'-C5'	-5.97	111.94	120.90
85	A5	938	C	C4'-C3'-C2'	-5.97	96.63	102.60
85	A5	2874	U	N1-C1'-C2'	5.97	122.96	114.00
86	A7	12	U	C1'-O4'-C4'	5.97	115.67	109.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	CL	172	GLU	N-CA-C	5.97	117.48	110.97
85	A5	42	A	C4'-C3'-O3'	-5.97	104.05	113.00
85	A5	942	G	O3'-P-O5'	5.97	112.95	104.00
85	A5	1181	C	C3'-C2'-C1'	5.97	107.27	101.30
85	A5	1436	C	C4'-C3'-C2'	-5.97	96.63	102.60
85	A5	2259	G	P-O3'-C3'	5.97	129.15	120.20
85	A5	2384	U	C1'-C2'-O2'	5.97	117.35	108.40
85	A5	2565	A	C1'-O4'-C4'	5.97	115.87	109.90
85	A5	3678	G	C1'-C2'-O2'	-5.97	102.85	111.80
36	B2	530	U	N1-C1'-C2'	-5.97	103.05	112.00
65	Cc	88	TYR	CA-CB-CG	-5.97	103.16	113.90
85	A5	2091	C	C1'-C2'-O2'	5.97	117.35	108.40
36	B2	1115	U	P-O3'-C3'	5.97	129.15	120.20
36	B2	1161	U	O4'-C1'-N1	5.97	117.45	108.50
50	CR	2	SER	N-CA-C	-5.97	105.26	112.54
85	A5	21	G	C1'-O4'-C4'	5.97	115.87	109.90
85	A5	359	A	O4'-C1'-C2'	-5.97	101.63	107.60
85	A5	1402	C	N1-C1'-C2'	5.97	120.95	112.00
85	A5	1788	A	C1'-O4'-C4'	5.97	115.87	109.90
85	A5	2086	G	C1'-O4'-C4'	-5.97	103.93	109.90
85	A5	2444	U	C3'-C2'-C1'	5.97	107.27	101.30
85	A5	4443	C	O4'-C1'-C2'	-5.97	99.83	105.80
36	B2	647	U	O4'-C1'-C2'	-5.96	101.64	107.60
85	A5	2892	C	N1-C1'-C2'	5.96	120.95	112.00
86	A7	33	U	O4'-C1'-N1	5.96	117.45	108.50
56	CX	155	ILE	N-CA-C	5.96	117.26	107.24
1	Az	27	HIS	N-CA-C	-5.96	103.08	110.41
30	AF	61	PHE	N-CA-C	5.96	117.86	111.36
85	A5	4730	C	C4'-C3'-C2'	5.96	108.56	102.60
86	A7	15	C	N1-C1'-C2'	5.96	120.94	112.00
87	A8	146	U	C3'-C2'-C1'	5.96	107.26	101.30
36	B2	219	U	O4'-C1'-C2'	-5.96	101.64	107.60
36	B2	802	A	C1'-O4'-C4'	-5.96	103.94	109.90
36	B2	1011	A	O4'-C1'-N9	5.96	117.44	108.50
36	B2	1417	C	C5'-C4'-C3'	5.96	124.94	116.00
36	B2	1728	U	O4'-C1'-C2'	-5.96	101.64	107.60
49	CQ	19	LYS	CB-CG-CD	-5.96	97.60	111.30
85	A5	2249	C	N1-C1'-C2'	5.96	120.94	112.00
85	A5	4596	C	O4'-C1'-C2'	-5.96	101.64	107.60
85	A5	4700	A	O4'-C1'-C2'	-5.96	101.64	107.60
2	Ag	201	SER	CA-C-N	5.96	125.66	119.05
2	Ag	201	SER	C-N-CA	5.96	125.66	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	34	U	C1'-O4'-C4'	-5.96	103.94	109.90
36	B2	450	C	O4'-C1'-C2'	-5.96	101.64	107.60
36	B2	731	G	N9-C1'-C2'	5.96	120.94	112.00
36	B2	1204	A	O4'-C1'-C2'	-5.96	101.64	107.60
36	B2	1723	G	O4'-C1'-N9	5.96	117.43	108.50
85	A5	1243	C	C2'-C3'-O3'	5.96	118.44	109.50
85	A5	4123	C	C2'-C3'-O3'	5.96	122.64	113.70
85	A5	4673	U	O4'-C1'-N1	5.96	117.43	108.50
85	A5	1446	C	O4'-C1'-C2'	-5.96	101.64	107.60
85	A5	3699	C	N1-C1'-C2'	5.96	120.93	112.00
3	AU	75	LYS	N-CA-C	-5.95	99.44	108.67
17	AV	24	ILE	N-CA-C	-5.95	100.01	108.58
18	AY	45	ALA	N-CA-C	-5.95	104.13	111.33
36	B2	699	C	C3'-C2'-C1'	5.95	107.25	101.30
36	B2	988	C	O4'-C1'-C2'	-5.95	101.65	107.60
36	B2	1642	U	O4'-C1'-C2'	-5.95	101.65	107.60
30	AF	44	LYS	N-CA-C	5.95	123.47	110.80
36	B2	645	C	C3'-C2'-C1'	5.95	107.25	101.30
42	CL	46	ILE	CA-CB-CG2	-5.95	100.38	110.50
85	A5	5027	C	C1'-C2'-O2'	5.95	120.72	111.80
11	AL	152	LYS	N-CA-C	-5.95	98.13	110.80
36	B2	1779	G	O3'-P-O5'	5.95	112.92	104.00
41	CO	4	VAL	N-CA-C	5.95	116.17	107.37
85	A5	196	C	O4'-C1'-C2'	-5.95	101.65	107.60
85	A5	1216	C	C3'-C2'-C1'	5.95	107.25	101.30
85	A5	2256	C	P-O5'-C5'	5.95	129.82	120.90
87	A8	9	A	O4'-C1'-C2'	-5.95	101.65	107.60
36	B2	682	U	O4'-C1'-N1	5.95	117.42	108.50
85	A5	3681	G	O4'-C1'-C2'	-5.95	99.85	105.80
36	B2	1048	G	P-O5'-C5'	5.95	129.82	120.90
44	CM	70	GLN	CB-CA-C	5.95	122.25	110.42
66	Cd	12	LYS	CA-C-N	5.95	133.06	121.41
66	Cd	12	LYS	C-N-CA	5.95	133.06	121.41
85	A5	329	A	N9-C1'-C2'	5.95	120.92	112.00
85	A5	2505	C	P-O3'-C3'	5.95	129.12	120.20
85	A5	3761	C	O3'-P-O5'	5.95	112.92	104.00
85	A5	3897	G	O3'-P-O5'	-5.95	95.08	104.00
85	A5	4318	C	C3'-C2'-C1'	5.95	107.25	101.30
3	AU	103	SER	O-C-N	-5.94	114.67	122.39
36	B2	94	G	N9-C1'-C2'	5.94	120.92	112.00
36	B2	1188	A	C3'-C2'-C1'	5.94	107.24	101.30
36	B2	1408	U	C1'-O4'-C4'	-5.94	103.96	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1608	U	N1-C1'-C2'	5.94	120.91	112.00
60	Cr	36	ASN	O-C-N	-5.94	116.30	123.13
85	A5	1301	C	O4'-C1'-C2'	-5.94	101.66	107.60
85	A5	4983	C	N1-C1'-C2'	5.94	120.91	112.00
36	B2	442	C	C3'-C2'-C1'	5.94	107.24	101.30
36	B2	980	A	C1'-O4'-C4'	-5.94	103.96	109.90
59	CZ	55	ALA	N-CA-C	5.94	120.83	108.53
85	A5	3789	C	O4'-C1'-C2'	-5.94	101.66	107.60
86	A7	102	U	C1'-O4'-C4'	-5.94	103.96	109.90
68	Cf	106	TYR	O-C-N	5.94	126.37	121.32
85	A5	3666	C	C3'-C2'-C1'	5.94	107.24	101.30
1	Az	266	PHE	CA-C-N	5.94	130.62	122.07
1	Az	266	PHE	C-N-CA	5.94	130.62	122.07
36	B2	378	U	O4'-C1'-N1	5.94	117.41	108.50
36	B2	1305	C	N1-C1'-C2'	5.94	120.91	112.00
36	B2	1348	G	N9-C1'-C2'	-5.94	103.09	112.00
68	Cf	42	TYR	CA-CB-CG	-5.94	103.21	113.90
85	A5	371	A	C5'-C4'-C3'	-5.94	107.09	116.00
85	A5	2286	G	O4'-C1'-N9	5.94	117.41	108.50
85	A5	2463	G	C1'-O4'-C4'	-5.94	103.96	109.90
85	A5	5018	C	O4'-C1'-C2'	-5.94	101.66	107.60
15	AB	57	ILE	CA-C-N	-5.93	111.72	120.38
15	AB	57	ILE	C-N-CA	-5.93	111.72	120.38
36	B2	1513	C	O4'-C1'-C2'	-5.93	101.67	107.60
36	B2	1866	A	P-O3'-C3'	5.93	129.10	120.20
52	CS	3	ALA	N-CA-C	-5.93	106.02	113.20
85	A5	407	A	P-O5'-C5'	5.93	129.80	120.90
85	A5	2896	G	O4'-C1'-C2'	5.93	113.53	107.60
2	Ag	139	LYS	N-CA-C	5.93	117.83	111.36
34	AQ	146	ARG	CA-CB-CG	5.93	125.97	114.10
85	A5	2789	A	N9-C1'-C2'	-5.93	105.10	114.00
36	B2	381	C	O3'-P-O5'	-5.93	95.10	104.00
85	A5	1670	G	O4'-C1'-N9	5.93	117.40	108.50
36	B2	110	U	C4'-C3'-O3'	-5.93	104.11	113.00
36	B2	690	G	C2'-C3'-O3'	-5.93	104.80	113.70
36	B2	1359	U	C1'-O4'-C4'	5.93	115.83	109.90
74	CC	85	HIS	CB-CA-C	-5.93	101.36	111.26
81	CE	132	PRO	N-CD-CG	5.93	110.91	103.80
85	A5	512	U	C4'-C3'-C2'	-5.93	96.67	102.60
85	A5	1703	C	P-O5'-C5'	5.93	128.89	120.00
85	A5	1776	A	O3'-P-O5'	-5.93	95.11	104.00
85	A5	4521	U	N1-C1'-C2'	5.93	120.89	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	AH	36	LEU	CA-CB-CG	-5.93	95.55	116.30
36	B2	574	A	N9-C1'-C2'	5.93	120.89	112.00
28	AC	248	TYR	CA-CB-CG	-5.93	103.23	113.90
67	Ce	7	LEU	CA-C-O	-5.93	112.04	120.51
85	A5	2392	C	N1-C1'-C2'	5.93	120.89	112.00
87	A8	99	U	O4'-C1'-C2'	-5.93	101.67	107.60
36	B2	665	G	N9-C1'-C2'	5.92	120.89	112.00
85	A5	1286	C	O4'-C1'-N1	5.92	117.39	108.50
85	A5	1931	C	O4'-C1'-C2'	-5.92	99.88	105.80
85	A5	2531	C	C3'-C2'-C1'	5.92	107.42	101.50
85	A5	2668	G	P-O3'-C3'	5.92	129.09	120.20
85	A5	484	U	O4'-C1'-N1	5.92	117.38	108.50
85	A5	514	U	P-O3'-C3'	5.92	129.09	120.20
85	A5	5050	C	N1-C1'-C2'	5.92	120.89	112.00
36	B2	1004	U	O4'-C1'-N1	5.92	117.38	108.50
85	A5	505	G	C4'-C3'-C2'	-5.92	96.68	102.60
85	A5	2765	A	O4'-C1'-C2'	-5.92	101.68	107.60
85	A5	2836	A	C4'-C3'-C2'	-5.92	96.68	102.60
85	A5	3749	C	C3'-C2'-C1'	5.92	107.22	101.30
85	A5	4763	U	O4'-C1'-C2'	-5.92	99.88	105.80
53	CT	117	LYS	N-CA-C	5.92	117.81	111.36
57	CY	67	ILE	N-CA-C	5.92	121.65	109.34
36	B2	624	C	C5'-C4'-C3'	-5.92	107.12	116.00
36	B2	1676	U	P-O3'-C3'	-5.92	111.32	120.20
47	CI	206	LEU	CA-C-N	-5.92	110.24	121.54
47	CI	206	LEU	C-N-CA	-5.92	110.24	121.54
55	CU	124	GLU	CB-CA-C	5.92	119.52	109.75
85	A5	251	C	C3'-C2'-C1'	5.92	107.22	101.30
85	A5	3688	U	O4'-C1'-C2'	-5.92	101.68	107.60
85	A5	4088	C	C3'-C2'-C1'	5.92	107.22	101.30
85	A5	4716	C	P-O3'-C3'	5.92	129.08	120.20
36	B2	148	U	O4'-C1'-C2'	-5.92	101.68	107.60
36	B2	230	A	C3'-C2'-C1'	5.92	107.22	101.30
39	Cq	236	SER	CB-CA-C	-5.92	109.77	116.63
42	CL	162	LYS	O-C-N	5.92	130.22	123.48
43	CV	101	ASN	N-CA-CB	-5.92	101.48	110.77
85	A5	334	A	N9-C1'-C2'	5.92	120.87	112.00
85	A5	1673	U	O4'-C1'-C2'	-5.92	101.68	107.60
25	Af	85	TYR	CA-C-N	5.92	132.84	121.54
25	Af	85	TYR	C-N-CA	5.92	132.84	121.54
36	B2	790	C	N1-C1'-C2'	5.92	120.87	112.00
85	A5	2090	U	P-O3'-C3'	5.92	129.07	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1598	G	C2'-C3'-O3'	5.91	118.37	109.50
69	Cg	13	TYR	CA-CB-CG	-5.91	103.26	113.90
85	A5	971	U	C1'-C2'-O2'	5.91	117.27	108.40
85	A5	2486	G	N9-C1'-C2'	5.91	120.87	112.00
85	A5	2601	A	O4'-C1'-N9	-5.91	99.33	108.20
85	A5	4404	U	O4'-C1'-N1	5.91	117.07	108.20
16	AA	53	ARG	CD-NE-CZ	-5.91	116.12	124.40
36	B2	840	C	O3'-P-O5'	-5.91	95.13	104.00
85	A5	489	C	C4'-C3'-O3'	-5.91	104.13	113.00
85	A5	2290	C	C4'-C3'-C2'	-5.91	96.69	102.60
85	A5	2304	U	O4'-C1'-C2'	5.91	111.71	105.80
21	Ab	4	ALA	N-CA-C	5.91	117.25	107.20
27	AE	74	GLY	CA-C-N	-5.91	115.11	123.03
27	AE	74	GLY	C-N-CA	-5.91	115.11	123.03
36	B2	329	G	O3'-P-O5'	5.91	112.86	104.00
48	CD	263	LYS	CB-CA-C	-5.91	109.19	117.23
85	A5	2425	U	C1'-O4'-C4'	5.91	115.61	109.70
85	A5	4264	G	O4'-C1'-C2'	-5.91	101.69	107.60
49	CQ	7	HIS	N-CA-C	5.91	123.39	110.80
85	A5	118	C	N1-C1'-C2'	5.91	120.86	112.00
85	A5	1519	C	N1-C1'-C2'	5.91	120.86	112.00
85	A5	1585	C	O4'-C1'-C2'	-5.91	101.69	107.60
85	A5	1806	G	C1'-C2'-O2'	5.91	117.26	108.40
85	A5	4201	G	C1'-O4'-C4'	-5.91	103.99	109.90
85	A5	131	C	C4'-C3'-C2'	-5.91	96.69	102.60
85	A5	1628	C	N1-C1'-C2'	5.91	120.86	112.00
85	A5	4072	C	C5'-C4'-C3'	5.91	124.86	116.00
31	AH	111	LYS	CA-CB-CG	5.91	125.91	114.10
36	B2	31	U	O4'-C1'-N1	5.91	117.36	108.50
36	B2	744	G	C3'-C2'-C1'	5.91	107.21	101.30
85	A5	1083	U	P-O5'-C5'	5.91	129.76	120.90
85	A5	5023	C	O3'-P-O5'	-5.91	95.14	104.00
86	A7	55	A	O4'-C1'-N9	5.91	117.36	108.50
85	A5	1186	U	O4'-C4'-C3'	-5.90	98.10	104.00
85	A5	3928	A	C3'-C2'-C1'	5.90	107.20	101.30
85	A5	4295	U	O4'-C1'-N1	5.90	117.36	108.50
2	Ag	284	PRO	N-CA-C	-5.90	95.44	113.27
36	B2	427	U	O4'-C1'-N1	5.90	117.35	108.50
42	CL	131	PRO	CA-C-N	5.90	133.02	123.93
42	CL	131	PRO	C-N-CA	5.90	133.02	123.93
85	A5	1244	G	O4'-C1'-N9	5.90	117.05	108.20
18	AY	11	LYS	N-CA-C	5.90	119.53	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1213	C	N1-C1'-C2'	5.90	120.85	112.00
36	B2	210	U	N1-C1'-C2'	5.90	120.85	112.00
85	A5	399	G	O3'-P-O5'	-5.90	95.15	104.00
2	Ag	92	LEU	O-C-N	5.90	128.37	122.12
14	AT	4	VAL	O-C-N	-5.90	113.56	123.00
36	B2	1001	A	C1'-O4'-C4'	5.90	115.60	109.70
66	Cd	103	TYR	CA-C-N	-5.90	114.86	123.00
66	Cd	103	TYR	C-N-CA	-5.90	114.86	123.00
36	B2	284	C	C3'-C2'-C1'	5.90	107.20	101.30
36	B2	1519	U	N1-C1'-C2'	-5.90	105.16	114.00
85	A5	1368	A	C4'-C3'-C2'	-5.90	96.70	102.60
85	A5	1921	C	O4'-C1'-C2'	-5.90	99.90	105.80
6	AX	7	LEU	N-CA-C	-5.89	104.86	111.28
36	B2	1493	C	N1-C1'-C2'	-5.89	105.16	114.00
85	A5	972	C	O3'-P-O5'	5.89	112.84	104.00
85	A5	1443	A	C3'-C2'-C1'	5.89	107.19	101.30
85	A5	2427	G	C3'-C2'-C1'	5.89	107.19	101.30
85	A5	4532	U	C4'-C3'-O3'	5.89	121.84	113.00
36	B2	773	C	C4'-C3'-O3'	5.89	118.84	110.00
36	B2	1117	C	C3'-C2'-C1'	-5.89	95.41	101.30
47	CI	188	LYS	CA-C-N	-5.89	112.44	122.11
47	CI	188	LYS	C-N-CA	-5.89	112.44	122.11
85	A5	243	A	O4'-C1'-C2'	5.89	113.49	107.60
85	A5	4951	G	C1'-C2'-O2'	5.89	117.24	108.40
86	A7	93	G	C3'-C2'-C1'	-5.89	95.41	101.30
36	B2	353	C	C4'-C3'-O3'	-5.89	104.16	113.00
85	A5	315	G	C5'-C4'-O4'	5.89	117.94	109.10
85	A5	1378	C	P-O3'-C3'	5.89	129.04	120.20
85	A5	1867	A	N9-C1'-C2'	5.89	120.84	112.00
85	A5	4970	C	O4'-C1'-C2'	-5.89	101.71	107.60
6	AX	139	GLU	N-CA-C	5.89	119.81	109.80
36	B2	53	C	C3'-C2'-C1'	5.89	107.19	101.30
36	B2	1327	G	N9-C1'-C2'	5.89	120.84	112.00
36	B2	1521	C	O3'-P-O5'	5.89	112.83	104.00
74	CC	132	ALA	N-CA-C	-5.89	100.59	109.60
85	A5	948	C	P-O5'-C5'	5.89	129.74	120.90
85	A5	1700	G	C4'-C3'-C2'	-5.89	96.71	102.60
85	A5	3864	C	O3'-P-O5'	-5.89	95.17	104.00
85	A5	4446	U	N1-C1'-C2'	5.89	120.83	112.00
85	A5	4626	A	O4'-C1'-N9	5.89	117.03	108.20
36	B2	1547	C	C3'-C2'-C1'	5.89	107.19	101.30
36	B2	1601	A	C2'-C3'-O3'	-5.89	104.87	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Ag	276	SER	CA-C-O	5.89	124.01	119.18
29	AG	147	LEU	N-CA-C	5.89	123.34	110.80
36	B2	1833	C	C3'-C2'-C1'	5.89	107.19	101.30
59	CZ	98	LYS	N-CA-C	-5.89	104.86	111.28
85	A5	131	C	O4'-C1'-C2'	-5.89	101.71	107.60
36	B2	1109	C	O4'-C1'-C2'	5.88	113.48	107.60
36	B2	1335	G	N9-C1'-C2'	5.88	120.83	112.00
36	B2	1451	G	O4'-C1'-C2'	-5.88	101.72	107.60
85	A5	1921	C	C1'-C2'-O2'	-5.88	102.97	111.80
85	A5	4193	C	N1-C1'-C2'	5.88	120.83	112.00
85	A5	4316	G	O4'-C1'-C2'	-5.88	101.72	107.60
85	A5	4719	G	O4'-C1'-C2'	5.88	113.48	107.60
37	BC	65	C	N1-C1'-C2'	5.88	120.82	112.00
85	A5	965	G	O4'-C4'-C3'	-5.88	100.22	106.10
36	B2	77	A	N9-C1'-C2'	-5.88	103.18	112.00
36	B2	169	U	P-O3'-C3'	5.88	129.02	120.20
36	B2	423	U	O4'-C1'-N1	5.88	117.32	108.50
36	B2	1273	C	O3'-P-O5'	-5.88	95.18	104.00
41	CO	62	MET	CA-C-N	-5.88	112.15	122.62
41	CO	62	MET	C-N-CA	-5.88	112.15	122.62
85	A5	2669	C	O4'-C4'-C3'	-5.88	100.22	106.10
85	A5	3706	C	O4'-C1'-C2'	-5.88	101.72	107.60
21	Ab	68	GLY	N-CA-C	-5.88	105.54	113.24
36	B2	1639	G	C3'-C2'-C1'	5.88	107.18	101.30
81	CE	227	HIS	CA-C-N	5.88	132.82	121.18
81	CE	227	HIS	C-N-CA	5.88	132.82	121.18
86	A7	27	G	O4'-C1'-C2'	-5.88	101.72	107.60
36	B2	1696	C	O4'-C1'-C2'	-5.88	101.72	107.60
74	CC	191	ALA	CA-C-N	-5.88	109.89	121.41
74	CC	191	ALA	C-N-CA	-5.88	109.89	121.41
85	A5	99	A	P-O3'-C3'	-5.88	111.38	120.20
85	A5	1437	C	P-O3'-C3'	5.88	129.02	120.20
85	A5	2244	C	O4'-C1'-C2'	-5.88	101.72	107.60
85	A5	4716	C	O4'-C1'-C2'	-5.88	101.72	107.60
85	A5	4961	G	P-O5'-C5'	5.88	129.72	120.90
15	AB	187	LYS	N-CA-C	5.88	117.76	111.36
17	AV	77	GLY	N-CA-C	-5.88	99.25	113.18
36	B2	1747	C	O3'-P-O5'	-5.88	95.19	104.00
85	A5	1710	A	P-O5'-C5'	5.88	128.82	120.00
36	B2	1056	U	P-O3'-C3'	-5.88	111.39	120.20
85	A5	1399	G	N9-C1'-C2'	-5.88	103.19	112.00
87	A8	156	U	N1-C1'-C2'	5.88	120.81	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1745	A	C4'-C3'-C2'	-5.87	96.73	102.60
51	CA	251	THR	CA-C-N	5.87	128.76	121.71
51	CA	251	THR	C-N-CA	5.87	128.76	121.71
85	A5	486	C	C2'-C3'-O3'	5.87	122.51	113.70
85	A5	2035	C	N1-C1'-C2'	5.87	120.81	112.00
85	A5	2552	G	C2'-C3'-O3'	-5.87	104.89	113.70
85	A5	4211	C	N1-C1'-C2'	5.87	120.81	112.00
36	B2	1352	G	N9-C1'-C2'	5.87	120.80	112.00
85	A5	1789	C	N1-C1'-C2'	5.87	120.81	112.00
28	AC	123	ARG	N-CA-C	5.87	117.70	108.96
36	B2	741	C	N1-C1'-C2'	5.87	122.80	114.00
36	B2	1210	G	O4'-C1'-N9	5.87	117.30	108.50
36	B2	1437	C	C1'-O4'-C4'	-5.87	104.03	109.90
59	CZ	135	ARG	CA-C-O	-5.87	114.24	120.40
85	A5	1272	C	O5'-C5'-C4'	5.87	120.50	111.70
85	A5	3894	A	C3'-C2'-C1'	5.87	107.17	101.30
85	A5	4307	A	O4'-C1'-C2'	-5.87	101.73	107.60
85	A5	4391	G	O4'-C1'-C2'	-5.87	101.73	107.60
29	AG	120	ASP	CA-C-N	-5.87	111.28	122.13
29	AG	120	ASP	C-N-CA	-5.87	111.28	122.13
85	A5	2287	G	O3'-P-O5'	-5.87	95.20	104.00
85	A5	4175	G	C1'-C2'-O2'	5.87	117.20	108.40
33	AI	191	GLU	CB-CA-C	-5.87	99.83	111.91
36	B2	539	C	O4'-C1'-C2'	-5.87	101.73	107.60
85	A5	2262	G	P-O3'-C3'	5.87	129.00	120.20
85	A5	2312	U	O4'-C1'-N1	5.87	117.30	108.50
31	AH	16	PRO	CA-N-CD	-5.86	103.79	112.00
36	B2	1041	G	N9-C1'-C2'	5.86	120.80	112.00
60	Cr	39	ARG	N-CA-C	5.86	120.28	113.18
85	A5	1259	G	O3'-P-O5'	-5.86	95.20	104.00
85	A5	2076	G	C3'-C2'-C1'	-5.86	95.44	101.30
36	B2	388	U	N1-C1'-C2'	5.86	120.79	112.00
36	B2	1004	U	O4'-C1'-C2'	-5.86	101.74	107.60
85	A5	144	G	C4'-C3'-C2'	-5.86	96.74	102.60
85	A5	4208	U	O5'-C5'-C4'	-5.86	102.71	111.50
8	AS	82	TRP	CB-CA-C	-5.86	97.95	110.32
36	B2	178	C	N1-C1'-C2'	5.86	120.79	112.00
48	CD	128	ASP	N-CA-C	-5.86	102.64	110.55
53	CT	158	PHE	CA-C-N	5.86	128.13	120.28
53	CT	158	PHE	C-N-CA	5.86	128.13	120.28
85	A5	264	C	C3'-C2'-C1'	5.86	107.16	101.30
85	A5	2474	G	P-O5'-C5'	5.86	129.69	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2483	G	O4'-C1'-N9	5.86	117.29	108.50
85	A5	1163	G	N9-C1'-C2'	5.86	120.79	112.00
13	AP	37	TYR	CA-C-N	5.86	132.73	121.54
13	AP	37	TYR	C-N-CA	5.86	132.73	121.54
26	AJ	123	ILE	CA-C-N	5.86	132.73	121.54
26	AJ	123	ILE	C-N-CA	5.86	132.73	121.54
85	A5	1733	G	O4'-C1'-N9	5.86	116.99	108.20
85	A5	2376	A	O4'-C1'-C2'	-5.86	101.74	107.60
85	A5	3972	A	C2'-C3'-O3'	5.86	118.29	109.50
85	A5	4365	C	N1-C1'-C2'	5.86	120.79	112.00
36	B2	1742	C	N1-C1'-C2'	5.86	120.78	112.00
85	A5	2670	C	C2'-C3'-O3'	5.86	122.48	113.70
36	B2	953	C	O3'-P-O5'	-5.85	95.22	104.00
85	A5	3760	A	O4'-C1'-C2'	5.85	111.65	105.80
86	A7	80	U	N1-C1'-C2'	5.85	120.78	112.00
85	A5	1590	C	O4'-C1'-N1	5.85	117.28	108.50
85	A5	1793	A	O4'-C1'-C2'	-5.85	101.75	107.60
85	A5	4743	G	O4'-C1'-N9	5.85	117.28	108.50
16	AA	53	ARG	N-CA-C	5.85	117.66	111.28
44	CM	70	GLN	CA-C-N	5.85	132.71	121.54
44	CM	70	GLN	C-N-CA	5.85	132.71	121.54
85	A5	946	C	O4'-C1'-N1	5.85	116.98	108.20
85	A5	1369	C	C2'-C3'-O3'	5.85	118.28	109.50
85	A5	4886	C	N1-C1'-C2'	5.85	120.77	112.00
13	AP	72	LYS	CA-C-N	-5.85	112.53	119.84
13	AP	72	LYS	C-N-CA	-5.85	112.53	119.84
36	B2	526	A	C5'-C4'-C3'	5.85	124.77	116.00
51	CA	205	ASN	C-N-CD	-5.85	101.02	125.00
81	CE	50	LEU	N-CA-CB	5.85	120.37	110.49
85	A5	189	G	C1'-C2'-O2'	5.85	117.17	108.40
85	A5	1396	G	N9-C1'-C2'	5.85	120.77	112.00
85	A5	1401	C	P-O3'-C3'	5.85	128.97	120.20
85	A5	4896	G	O5'-C5'-C4'	5.85	120.27	111.50
12	AR	60	ARG	N-CA-C	5.85	117.73	111.36
33	AI	134	GLU	CA-C-N	-5.85	112.65	120.54
33	AI	134	GLU	C-N-CA	-5.85	112.65	120.54
80	CH	189	GLN	N-CA-C	5.85	118.74	110.50
53	CT	132	PRO	CA-C-O	-5.84	114.87	122.12
63	CB	377	GLY	N-CA-C	-5.84	103.57	112.51
85	A5	745	G	P-O3'-C3'	5.84	128.97	120.20
85	A5	1106	A	O4'-C1'-C2'	-5.84	101.76	107.60
85	A5	1423	U	O4'-C1'-N1	5.84	117.27	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4054	C	C4'-C3'-O3'	-5.84	104.23	113.00
14	AT	82	ARG	NH1-CZ-NH2	-5.84	111.70	119.30
85	A5	4500	U	O4'-C1'-N1	5.84	117.27	108.50
16	AA	159	ILE	CA-CB-CG1	-5.84	100.47	110.40
59	CZ	122	TYR	N-CA-C	5.84	117.32	111.07
85	A5	248	C	O4'-C1'-C2'	-5.84	101.76	107.60
85	A5	738	C	O4'-C1'-C2'	-5.84	101.76	107.60
85	A5	2293	U	C1'-C2'-O2'	5.84	117.16	108.40
85	A5	2664	G	C1'-O4'-C4'	-5.84	104.06	109.90
85	A5	3749	C	O4'-C1'-C2'	-5.84	101.76	107.60
87	A8	80	A	O4'-C1'-C2'	5.84	111.64	105.80
85	A5	683	C	P-O5'-C5'	5.84	129.66	120.90
85	A5	1878	G	N9-C1'-C2'	5.84	120.76	112.00
85	A5	2729	C	O4'-C1'-C2'	-5.84	101.76	107.60
85	A5	2840	A	O4'-C1'-C2'	-5.84	101.76	107.60
85	A5	4432	C	O4'-C1'-C2'	-5.84	101.76	107.60
86	A7	34	C	C3'-C2'-C1'	5.84	107.14	101.30
36	B2	897	U	C4'-C3'-O3'	5.84	121.76	113.00
85	A5	655	C	C2'-C3'-O3'	5.84	122.46	113.70
36	B2	1504	U	O4'-C1'-N1	5.84	117.25	108.50
81	CE	127	SER	CA-C-N	5.84	132.69	121.54
81	CE	127	SER	C-N-CA	5.84	132.69	121.54
85	A5	2776	G	O3'-P-O5'	-5.84	95.25	104.00
85	A5	2782	U	C1'-O4'-C4'	5.84	115.54	109.70
85	A5	3973	G	C3'-C2'-C1'	5.84	107.14	101.30
85	A5	4749	C	O4'-C1'-C2'	-5.84	99.96	105.80
87	A8	92	U	N1-C1'-C2'	5.84	120.75	112.00
3	AU	27	ARG	N-CA-C	5.83	123.23	110.80
15	AB	146	ARG	O-C-N	-5.83	116.36	123.30
36	B2	1271	C	N1-C1'-C2'	5.83	120.75	112.00
63	CB	378	ARG	CA-C-N	-5.83	113.52	122.62
63	CB	378	ARG	C-N-CA	-5.83	113.52	122.62
85	A5	701	G	O4'-C1'-N9	5.83	117.25	108.50
86	A7	106	G	O4'-C1'-N9	5.83	117.25	108.50
12	AR	115	SER	N-CA-C	5.83	117.65	108.96
36	B2	1023	A	C1'-O4'-C4'	5.83	115.73	109.90
48	CD	171	LEU	O-C-N	-5.83	114.83	122.59
85	A5	1775	A	N9-C1'-C2'	5.83	120.75	112.00
36	B2	149	A	C3'-C2'-C1'	5.83	107.13	101.30
39	Cq	45	MET	CA-CB-CG	-5.83	102.44	114.10
40	CK	114	ARG	CA-C-O	5.83	126.93	120.63
85	A5	2544	G	C1'-O4'-C4'	-5.83	104.07	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	CT	133	ALA	CA-C-O	5.83	123.95	119.46
85	A5	1413	C	O4'-C1'-C2'	-5.83	101.77	107.60
85	A5	2599	G	O4'-C1'-C2'	-5.83	101.77	107.60
85	A5	4221	C	C3'-C2'-C1'	5.83	107.33	101.50
87	A8	48	A	O4'-C1'-C2'	-5.83	99.97	105.80
4	AK	86	PRO	CA-C-O	-5.83	112.11	120.56
26	AJ	110	LEU	CA-C-N	5.83	132.67	121.54
26	AJ	110	LEU	C-N-CA	5.83	132.67	121.54
85	A5	2550	G	C1'-O4'-C4'	-5.83	104.07	109.90
85	A5	4373	G	O4'-C1'-C2'	-5.83	99.97	105.80
85	A5	4634	U	N1-C1'-C2'	5.83	122.74	114.00
36	B2	1168	G	O4'-C1'-C2'	-5.83	101.77	107.60
42	CL	13	HIS	CB-CA-C	5.83	119.79	109.65
5	AO	138	ASP	N-CA-C	5.83	123.21	110.80
33	AI	88	ASN	CA-CB-CG	-5.83	106.77	112.60
36	B2	439	A	N9-C1'-C2'	-5.83	103.26	112.00
36	B2	1549	U	N1-C1'-C2'	5.83	120.74	112.00
85	A5	354	U	C3'-C2'-C1'	5.83	107.33	101.50
85	A5	695	G	O4'-C1'-C2'	-5.83	101.78	107.60
23	AD	24	PHE	CA-CB-CG	-5.82	107.98	113.80
85	A5	689	U	C5'-C4'-C3'	5.82	124.73	116.00
85	A5	2052	G	C3'-C2'-C1'	5.82	107.12	101.30
4	AK	65	ARG	CA-C-N	-5.82	112.43	122.79
4	AK	65	ARG	C-N-CA	-5.82	112.43	122.79
35	Ah	162	ILE	N-CA-CB	-5.82	103.38	111.41
36	B2	1380	C	O4'-C1'-C2'	-5.82	101.78	107.60
74	CC	59	GLY	CA-C-N	5.82	132.66	121.54
74	CC	59	GLY	C-N-CA	5.82	132.66	121.54
85	A5	728	U	C5'-C4'-C3'	-5.82	107.27	116.00
38	Cz	63	PHE	CA-CB-CG	-5.82	107.98	113.80
39	Cq	62	ARG	N-CA-C	-5.82	104.88	113.61
53	CT	131	GLN	N-CA-C	-5.82	99.43	109.15
85	A5	665	C	C3'-C2'-C1'	5.82	107.12	101.30
85	A5	1437	C	P-O5'-C5'	-5.82	112.17	120.90
85	A5	2344	U	O4'-C1'-N1	5.82	117.23	108.50
32	AW	84	LYS	CA-C-N	5.82	132.06	121.41
32	AW	84	LYS	C-N-CA	5.82	132.06	121.41
36	B2	1094	C	N1-C1'-C2'	5.82	120.73	112.00
36	B2	1684	C	O4'-C1'-C2'	-5.82	101.78	107.60
13	AP	14	LYS	CB-CA-C	-5.82	109.88	116.63
36	B2	386	C	P-O5'-C5'	-5.82	112.17	120.90
36	B2	1431	G	N9-C1'-C2'	5.82	120.73	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	115	C	C1'-C2'-O2'	5.82	120.53	111.80
85	A5	700	G	O4'-C1'-C2'	5.82	113.42	107.60
85	A5	2673	G	O4'-C1'-N9	5.82	116.93	108.20
85	A5	4314	C	C3'-C2'-C1'	5.82	107.12	101.30
86	A7	38	U	O4'-C1'-C2'	-5.82	101.78	107.60
36	B2	627	U	O4'-C1'-C2'	-5.82	99.98	105.80
36	B2	857	U	C1'-O4'-C4'	-5.82	104.08	109.90
48	CD	220	LYS	N-CA-C	5.82	123.19	110.80
36	B2	1731	A	O4'-C1'-C2'	-5.81	101.79	107.60
49	CQ	39	THR	CA-C-N	5.81	132.65	121.54
49	CQ	39	THR	C-N-CA	5.81	132.65	121.54
85	A5	3965	A	N9-C1'-C2'	-5.81	103.28	112.00
85	A5	4717	A	C1'-O4'-C4'	5.81	115.71	109.90
1	Az	404	THR	N-CA-C	-5.81	100.72	108.74
36	B2	914	U	O4'-C1'-C2'	-5.81	101.79	107.60
40	CK	21	GLU	N-CA-C	-5.81	98.42	110.80
47	CI	201	PRO	O-C-N	-5.81	114.79	122.64
48	CD	263	LYS	N-CA-C	5.81	118.38	108.67
59	CZ	34	SER	CA-C-N	5.81	132.64	121.54
59	CZ	34	SER	C-N-CA	5.81	132.64	121.54
63	CB	214	ASP	CA-CB-CG	-5.81	106.79	112.60
85	A5	2258	C	O4'-C1'-C2'	5.81	113.41	107.60
85	A5	4752	U	O4'-C1'-C2'	-5.81	99.99	105.80
85	A5	4190	U	O4'-C1'-C2'	-5.81	101.79	107.60
85	A5	4750	G	C4'-C3'-C2'	-5.81	96.79	102.60
1	Az	58	ASP	CA-C-N	5.81	128.65	120.28
1	Az	58	ASP	C-N-CA	5.81	128.65	120.28
36	B2	103	A	O4'-C1'-N9	5.81	116.91	108.20
81	CE	41	LYS	CB-CA-C	5.81	121.62	110.17
85	A5	1436	C	C3'-C2'-C1'	5.81	107.11	101.30
85	A5	2120	G	C1'-C2'-O2'	-5.81	99.69	108.40
78	Co	95	GLY	O-C-N	-5.81	115.15	122.70
85	A5	196	C	C3'-C2'-C1'	5.81	107.11	101.30
85	A5	3655	C	C3'-C2'-C1'	5.81	107.11	101.30
87	A8	34	U	C3'-C2'-C1'	5.81	107.31	101.50
85	A5	2498	C	N1-C1'-C2'	5.80	120.71	112.00
86	A7	29	C	C3'-C2'-C1'	5.80	107.11	101.30
86	A7	37	G	C3'-C2'-C1'	5.80	107.11	101.30
49	CQ	2	GLY	O-C-N	5.80	129.32	123.11
85	A5	233	U	O4'-C1'-C2'	5.80	111.60	105.80
85	A5	688	U	P-O5'-C5'	5.80	129.60	120.90
13	AP	38	SER	CA-C-N	5.80	132.62	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
13	AP	38	SER	C-N-CA	5.80	132.62	121.54
36	B2	420	G	C1'-O4'-C4'	-5.80	104.10	109.90
85	A5	19	G	N9-C1'-C2'	5.80	120.70	112.00
85	A5	1474	C	N1-C1'-C2'	5.80	120.70	112.00
10	AN	132	LYS	CA-C-O	5.80	126.79	119.95
81	CE	131	LYS	CA-C-O	-5.80	112.22	120.16
85	A5	145	G	O4'-C1'-C2'	-5.80	101.80	107.60
85	A5	1271	G	C1'-O4'-C4'	-5.80	104.10	109.90
85	A5	1718	C	P-O3'-C3'	5.80	128.90	120.20
85	A5	2110	C	P-O3'-C3'	-5.80	111.50	120.20
85	A5	1340	C	N1-C1'-C2'	5.80	120.70	112.00
85	A5	4591	U	O4'-C1'-N1	5.80	117.20	108.50
85	A5	639	U	O4'-C1'-C2'	-5.80	100.00	105.80
85	A5	2522	G	O4'-C1'-N9	5.80	117.19	108.50
85	A5	3673	C	N1-C1'-C2'	5.80	120.69	112.00
7	AM	119	GLN	CB-CA-C	-5.79	108.23	116.34
34	AQ	134	GLY	O-C-N	-5.79	115.97	121.77
85	A5	3716	C	O4'-C1'-C2'	-5.79	101.81	107.60
87	A8	104	A	O4'-C1'-N9	5.79	116.89	108.20
1	Az	539	GLU	O-C-N	-5.79	114.53	122.23
36	B2	310	C	O4'-C1'-C2'	-5.79	101.81	107.60
36	B2	581	U	P-O3'-C3'	-5.79	111.51	120.20
36	B2	1583	C	C3'-C2'-C1'	5.79	107.09	101.30
85	A5	137	G	N9-C1'-C2'	-5.79	103.31	112.00
85	A5	1392	A	C3'-C2'-C1'	5.79	107.09	101.30
85	A5	2822	G	N9-C1'-C2'	-5.79	103.31	112.00
37	BC	62	A	O4'-C1'-N9	5.79	117.19	108.50
52	CS	20	PRO	N-CA-C	-5.79	100.54	112.47
85	A5	1338	G	O3'-P-O5'	-5.79	95.31	104.00
85	A5	1614	C	O4'-C1'-C2'	-5.79	101.81	107.60
85	A5	4092	G	N9-C1'-C2'	5.79	120.69	112.00
85	A5	4303	C	N1-C1'-C2'	5.79	120.69	112.00
36	B2	865	A	O4'-C1'-N9	5.79	117.19	108.50
85	A5	143	C	O4'-C4'-C3'	-5.79	100.31	106.10
85	A5	498	C	O4'-C1'-C2'	-5.79	100.01	105.80
85	A5	1421	G	O4'-C1'-C2'	-5.79	101.81	107.60
5	AO	122	SER	N-CA-C	-5.79	104.88	111.07
36	B2	441	C	C1'-O4'-C4'	-5.79	104.11	109.90
64	CF	21	LYS	CB-CG-CD	5.79	124.61	111.30
85	A5	347	A	C5'-C4'-C3'	-5.79	107.32	116.00
85	A5	2836	A	O4'-C1'-C2'	-5.79	101.81	107.60
8	AS	49	ASP	CA-C-N	-5.79	115.63	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	AS	49	ASP	C-N-CA	-5.79	115.63	123.10
36	B2	757	C	O4'-C1'-C2'	-5.79	101.81	107.60
44	CM	20	HIS	N-CA-C	-5.79	106.12	112.72
85	A5	432	U	C1'-C2'-O2'	5.79	117.08	108.40
85	A5	486	C	N1-C1'-C2'	5.79	120.68	112.00
85	A5	3699	C	C3'-C2'-C1'	5.79	107.09	101.30
36	B2	172	U	O4'-C1'-C2'	-5.79	100.02	105.80
85	A5	664	G	O4'-C1'-C2'	5.79	111.58	105.80
85	A5	1221	G	C1'-O4'-C4'	5.79	115.69	109.90
85	A5	1301	C	C1'-O4'-C4'	5.79	115.69	109.90
85	A5	3700	C	N1-C1'-C2'	5.79	120.68	112.00
85	A5	4171	C	C3'-C2'-C1'	5.79	107.08	101.30
85	A5	4864	U	O4'-C1'-N1	5.79	117.18	108.50
85	A5	4893	A	N9-C1'-C2'	5.79	120.68	112.00
19	AZ	106	GLN	N-CA-C	5.78	117.47	107.93
36	B2	1781	A	C3'-C2'-C1'	5.78	107.08	101.30
36	B2	1843	G	O4'-C1'-C2'	5.78	113.38	107.60
85	A5	1482	G	O4'-C1'-C2'	5.78	113.38	107.60
85	A5	2814	C	N1-C1'-C2'	5.78	122.67	114.00
85	A5	4200	G	O4'-C1'-N9	5.78	117.18	108.50
85	A5	2086	G	C3'-C2'-C1'	-5.78	95.52	101.30
1	Az	433	ASN	CB-CA-C	5.78	120.58	110.64
19	AZ	95	GLY	N-CA-C	5.78	119.40	111.54
36	B2	1421	A	O4'-C1'-C2'	-5.78	101.82	107.60
68	Cf	95	LYS	N-CA-C	-5.78	106.20	113.20
85	A5	1182	C	O4'-C1'-C2'	-5.78	101.82	107.60
85	A5	1604	G	O4'-C1'-N9	5.78	117.17	108.50
85	A5	2573	A	C5'-C4'-C3'	5.78	124.67	116.00
85	A5	4739	C	O4'-C1'-C2'	-5.78	101.82	107.60
85	A5	1620	U	O4'-C1'-C2'	-5.78	101.82	107.60
1	Az	845	LYS	CA-C-N	5.78	128.02	120.28
1	Az	845	LYS	C-N-CA	5.78	128.02	120.28
19	AZ	50	PHE	CB-CA-C	-5.78	100.13	109.72
36	B2	1456	G	C1'-O4'-C4'	-5.78	104.12	109.90
61	Ch	37	THR	CA-CB-OG1	5.78	118.27	109.60
85	A5	126	C	N1-C1'-C2'	5.78	120.67	112.00
8	AS	6	PRO	CA-C-N	-5.78	110.51	121.54
8	AS	6	PRO	C-N-CA	-5.78	110.51	121.54
42	CL	136	LYS	CA-C-N	-5.78	111.30	121.70
42	CL	136	LYS	C-N-CA	-5.78	111.30	121.70
58	CW	73	ARG	CG-CD-NE	-5.78	99.29	112.00
81	CE	31	ASN	N-CA-CB	5.78	120.25	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1217	G	N9-C1'-C2'	-5.78	103.34	112.00
85	A5	1651	G	C3'-C2'-C1'	5.78	107.08	101.30
85	A5	2247	C	C1'-O4'-C4'	5.78	115.47	109.70
19	AZ	107	VAL	CB-CA-C	-5.77	104.58	111.97
36	B2	643	A	O4'-C1'-C2'	-5.77	100.03	105.80
85	A5	2099	G	O5'-C5'-C4'	-5.77	102.84	111.50
85	A5	2272	C	C4'-C3'-C2'	-5.77	96.83	102.60
85	A5	4354	U	C4'-C3'-C2'	5.77	108.37	102.60
36	B2	2	A	P-O3'-C3'	5.77	128.86	120.20
85	A5	134	G	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	1488	G	O4'-C1'-N9	5.77	117.16	108.50
85	A5	1636	U	N1-C1'-C2'	5.77	120.66	112.00
85	A5	2046	G	C2'-C3'-O3'	5.77	118.16	109.50
85	A5	3638	G	N9-C1'-C2'	5.77	120.66	112.00
85	A5	3932	U	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	4641	U	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	4960	G	C1'-O4'-C4'	-5.77	104.13	109.90
85	A5	5039	U	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	5047	C	N1-C1'-C2'	-5.77	105.34	114.00
12	AR	1	MET	CA-CB-CG	5.77	125.64	114.10
36	B2	535	G	O3'-P-O5'	-5.77	95.34	104.00
36	B2	981	A	O4'-C1'-C2'	-5.77	101.83	107.60
4	AK	62	PHE	CA-CB-CG	-5.77	108.03	113.80
36	B2	1291	A	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	262	G	O4'-C1'-N9	5.77	117.15	108.50
85	A5	387	G	O4'-C1'-C2'	-5.77	100.03	105.80
85	A5	2312	U	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	4943	A	C5'-C4'-C3'	-5.77	107.35	116.00
85	A5	268	G	O4'-C1'-N9	5.77	117.15	108.50
85	A5	671	G	C3'-C2'-C1'	-5.77	95.53	101.30
85	A5	1193	C	O4'-C1'-C2'	-5.77	101.83	107.60
85	A5	1360	G	O4'-C4'-C3'	-5.77	98.23	104.00
85	A5	4741	C	C3'-C2'-C1'	5.77	107.07	101.30
25	Af	134	SER	CA-C-N	5.77	130.92	121.58
25	Af	134	SER	C-N-CA	5.77	130.92	121.58
39	Cq	44	ARG	CD-NE-CZ	5.77	132.47	124.40
85	A5	945	U	O4'-C1'-N1	5.77	117.15	108.50
85	A5	2483	G	C1'-O4'-C4'	-5.77	104.13	109.90
85	A5	5060	A	O4'-C1'-N9	5.77	117.15	108.50
36	B2	917	U	O4'-C1'-C2'	-5.76	101.84	107.60
49	CQ	139	LEU	CA-CB-CG	-5.76	96.12	116.30
74	CC	155	GLU	O-C-N	5.76	130.22	122.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2546	G	C4'-C3'-O3'	-5.76	104.36	113.00
85	A5	3832	U	O4'-C1'-C2'	-5.76	101.84	107.60
85	A5	4586	G	C1'-O4'-C4'	-5.76	104.14	109.90
85	A5	4935	C	P-O3'-C3'	-5.76	111.55	120.20
86	A7	98	G	P-O5'-C5'	-5.76	112.25	120.90
36	B2	1372	U	O4'-C1'-C2'	-5.76	101.84	107.60
85	A5	1806	G	C1'-O4'-C4'	-5.76	104.14	109.90
36	B2	421	G	O4'-C1'-N9	5.76	117.14	108.50
39	Cq	56	GLY	CA-C-N	5.76	132.54	121.54
39	Cq	56	GLY	C-N-CA	5.76	132.54	121.54
62	Cb	30	GLU	CA-CB-CG	-5.76	102.58	114.10
80	CH	107	GLU	N-CA-C	5.76	123.07	110.80
85	A5	1558	A	O4'-C1'-C2'	-5.76	101.84	107.60
85	A5	4960	G	O3'-P-O5'	5.76	112.64	104.00
36	B2	499	G	P-O5'-C5'	-5.76	112.26	120.90
46	CN	170	LYS	N-CA-C	5.76	117.56	111.28
85	A5	2667	C	P-O3'-C3'	-5.76	111.56	120.20
85	A5	3656	A	P-O3'-C3'	5.76	128.84	120.20
47	CI	204	GLY	N-CA-C	5.76	124.09	112.34
85	A5	236	G	N9-C1'-C2'	5.76	120.64	112.00
85	A5	1440	U	P-O5'-C5'	-5.76	112.26	120.90
13	AP	122	THR	CB-CA-C	5.76	120.36	110.86
15	AB	90	ASP	N-CA-C	5.76	117.01	108.60
17	AV	71	ARG	N-CA-C	-5.76	104.36	111.33
36	B2	1720	U	O4'-C1'-N1	5.76	117.14	108.50
66	Cd	103	TYR	N-CA-C	5.76	117.78	108.34
75	Cm	89	TYR	N-CA-C	5.76	118.77	111.69
85	A5	958	G	C4'-C3'-C2'	-5.76	96.84	102.60
85	A5	2461	G	N9-C1'-C2'	5.76	120.63	112.00
44	CM	70	GLN	CA-CB-CG	-5.75	102.59	114.10
58	CW	6	CYS	CA-C-N	-5.75	112.66	122.56
58	CW	6	CYS	C-N-CA	-5.75	112.66	122.56
85	A5	1172	C	O4'-C1'-C2'	-5.75	101.84	107.60
40	CK	2	PRO	C-N-CD	-5.75	101.41	125.00
48	CD	171	LEU	CA-C-N	-5.75	113.38	121.72
48	CD	171	LEU	C-N-CA	-5.75	113.38	121.72
56	CX	73	HIS	CA-C-N	5.75	131.78	121.66
56	CX	73	HIS	C-N-CA	5.75	131.78	121.66
85	A5	152	U	O4'-C1'-C2'	-5.75	101.85	107.60
85	A5	738	C	O4'-C1'-N1	5.75	117.13	108.50
85	A5	2043	A	C1'-O4'-C4'	5.75	115.65	109.90
85	A5	2366	A	O4'-C1'-C2'	-5.75	101.85	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4244	A	O4'-C1'-C2'	-5.75	101.85	107.60
85	A5	4395	U	C1'-O4'-C4'	5.75	115.45	109.70
85	A5	4884	G	O3'-P-O5'	5.75	112.63	104.00
87	A8	41	A	C1'-O4'-C4'	5.75	115.65	109.90
87	A8	140	C	O4'-C1'-C2'	-5.75	101.85	107.60
4	AK	93	THR	CB-CA-C	5.75	119.02	109.53
60	Cr	79	ARG	CA-C-N	5.75	133.44	121.94
60	Cr	79	ARG	C-N-CA	5.75	133.44	121.94
36	B2	1821	U	O4'-C1'-N1	5.75	117.12	108.50
68	Cf	64	PRO	CB-CA-C	5.75	121.05	111.56
74	CC	308	LYS	CB-CG-CD	5.75	124.52	111.30
85	A5	2362	U	C1'-O4'-C4'	5.75	115.65	109.90
85	A5	3709	U	P-O5'-C5'	5.75	129.52	120.90
85	A5	5054	C	O4'-C1'-C2'	-5.75	100.05	105.80
22	Ac	5	ARG	CA-C-N	-5.75	115.67	122.11
22	Ac	5	ARG	C-N-CA	-5.75	115.67	122.11
29	AG	128	THR	CA-C-N	-5.75	111.50	122.13
29	AG	128	THR	C-N-CA	-5.75	111.50	122.13
49	CQ	10	ASP	N-CA-C	-5.75	101.02	109.81
85	A5	219	G	P-O3'-C3'	5.75	128.82	120.20
16	AA	194	PRO	CA-C-O	-5.75	110.14	120.60
36	B2	907	G	C1'-C2'-O2'	5.75	117.02	108.40
85	A5	1888	A	N9-C1'-C2'	5.75	120.62	112.00
85	A5	4618	G	O4'-C1'-N9	5.75	117.12	108.50
16	AA	53	ARG	CB-CG-CD	-5.74	98.09	111.30
36	B2	319	C	C4'-C3'-O3'	5.74	121.62	113.00
36	B2	541	U	O4'-C1'-C2'	-5.74	101.86	107.60
36	B2	1671	G	C1'-O4'-C4'	-5.74	104.16	109.90
74	CC	306	ARG	N-CA-C	5.74	123.03	110.80
85	A5	431	G	C2'-C3'-O3'	5.74	118.12	109.50
85	A5	1749	A	O4'-C1'-C2'	-5.74	101.86	107.60
85	A5	2035	C	C3'-C2'-C1'	5.74	107.04	101.30
85	A5	2054	U	C1'-O4'-C4'	5.74	115.44	109.70
85	A5	2631	U	N1-C1'-C2'	5.74	120.62	112.00
85	A5	3783	A	C2'-C3'-O3'	5.74	118.12	109.50
85	A5	3915	U	C3'-C2'-C1'	5.74	107.04	101.30
36	B2	1313	A	O4'-C1'-C2'	-5.74	100.06	105.80
3	AU	68	THR	O-C-N	5.74	127.84	121.53
8	AS	40	TYR	CB-CG-CD1	5.74	129.41	120.80
58	CW	25	ASP	N-CA-CB	-5.74	101.64	110.42
85	A5	3609	G	C1'-O4'-C4'	-5.74	104.16	109.90
85	A5	4085	A	P-O5'-C5'	5.74	129.51	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	AZ	101	SER	CA-C-N	5.74	132.50	121.54
19	AZ	101	SER	C-N-CA	5.74	132.50	121.54
36	B2	899	U	P-O5'-C5'	5.74	129.51	120.90
85	A5	123	C	O4'-C1'-C2'	-5.74	101.86	107.60
85	A5	989	U	O4'-C1'-N1	5.74	117.11	108.50
85	A5	2670	C	O3'-P-O5'	5.74	112.61	104.00
5	AO	42	VAL	O-C-N	5.74	129.05	123.03
36	B2	1854	U	O4'-C1'-N1	5.74	117.11	108.50
38	Cz	141	ASN	CA-CB-CG	-5.74	106.86	112.60
85	A5	3604	A	O4'-C1'-C2'	5.74	113.34	107.60
18	AY	59	GLY	N-CA-C	-5.74	102.69	111.24
26	AJ	123	ILE	N-CA-C	-5.74	105.54	113.00
85	A5	1603	C	O4'-C1'-C2'	-5.74	101.86	107.60
85	A5	2694	G	O3'-P-O5'	-5.74	95.40	104.00
34	AQ	134	GLY	C-N-CD	-5.73	101.49	125.00
36	B2	57	U	C1'-O4'-C4'	5.73	115.63	109.90
36	B2	753	C	O4'-C1'-N1	5.73	117.10	108.50
55	CU	66	SER	N-CA-C	-5.73	106.14	113.02
33	AI	8	TRP	CB-CG-CD1	5.73	135.50	126.90
36	B2	417	C	C3'-C2'-C1'	5.73	107.03	101.30
36	B2	1084	A	C4'-C3'-O3'	5.73	121.60	113.00
58	CW	16	GLY	CA-C-N	-5.73	111.13	121.62
58	CW	16	GLY	C-N-CA	-5.73	111.13	121.62
85	A5	1174	G	C3'-C2'-C1'	-5.73	95.57	101.30
85	A5	3763	A	O4'-C1'-C2'	-5.73	101.87	107.60
85	A5	4376	A	P-O3'-C3'	5.73	128.80	120.20
16	AA	168	ALA	CB-CA-C	-5.73	109.95	116.54
33	AI	3	ILE	CA-C-N	5.73	130.71	123.03
33	AI	3	ILE	C-N-CA	5.73	130.71	123.03
37	BC	38	C	C4'-C3'-O3'	-5.73	104.40	113.00
48	CD	44	TYR	N-CA-C	5.73	123.01	110.80
85	A5	1517	G	C1'-O4'-C4'	-5.73	104.17	109.90
78	Co	73	VAL	CB-CA-C	-5.73	101.89	111.29
85	A5	401	G	O4'-C1'-C2'	-5.73	101.87	107.60
85	A5	973	G	C4'-C3'-C2'	-5.73	96.87	102.60
85	A5	1366	G	C5'-C4'-C3'	5.73	124.59	116.00
85	A5	2804	C	N1-C1'-C2'	5.73	120.59	112.00
41	CO	149	TYR	N-CA-C	5.73	120.27	112.88
47	CI	189	CYS	N-CA-C	5.73	121.30	113.97
49	CQ	163	THR	N-CA-C	5.73	119.25	110.20
53	CT	98	HIS	CA-C-N	-5.73	114.57	122.30
53	CT	98	HIS	C-N-CA	-5.73	114.57	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	122	U	O4'-C1'-C2'	-5.73	101.87	107.60
87	A8	21	C	C3'-C2'-C1'	5.73	107.03	101.30
36	B2	1716	C	N1-C1'-C2'	5.73	120.59	112.00
85	A5	453	G	P-O5'-C5'	-5.73	112.31	120.90
85	A5	511	C	N1-C1'-C2'	5.73	120.59	112.00
36	B2	1615	U	N1-C1'-C2'	5.72	120.59	112.00
52	CS	18	PRO	N-CA-C	-5.72	103.14	111.33
74	CC	346	ASN	CA-C-O	-5.72	114.35	120.42
87	A8	126	C	P-O3'-C3'	5.72	128.79	120.20
22	Ac	5	ARG	N-CA-C	5.72	127.03	111.00
30	AF	21	GLY	N-CA-C	-5.72	99.62	113.18
36	B2	1027	A	C4'-C3'-O3'	5.72	121.58	113.00
84	Cu	45	GLU	N-CA-C	-5.72	104.95	111.07
85	A5	2108	G	O5'-C5'-C4'	5.72	120.08	111.50
85	A5	2670	C	C1'-O4'-C4'	-5.72	104.18	109.90
85	A5	3631	U	O4'-C1'-N1	5.72	117.08	108.50
36	B2	1540	G	P-O5'-C5'	-5.72	112.32	120.90
85	A5	4877	G	O3'-P-O5'	5.72	112.58	104.00
85	A5	2728	U	N1-C1'-C2'	5.72	120.58	112.00
85	A5	4019	G	P-O5'-C5'	5.72	128.58	120.00
85	A5	4343	U	O4'-C1'-C2'	-5.72	101.88	107.60
36	B2	1577	G	O4'-C1'-C2'	-5.72	101.88	107.60
85	A5	1363	C	N1-C1'-C2'	5.72	120.58	112.00
85	A5	2259	G	C2'-C3'-O3'	5.72	118.08	109.50
85	A5	2718	U	O4'-C1'-C2'	-5.72	101.88	107.60
85	A5	2798	A	O4'-C1'-C2'	-5.72	100.08	105.80
85	A5	3965	A	C3'-C2'-C1'	5.72	107.02	101.30
85	A5	4256	A	O4'-C1'-C2'	5.72	113.32	107.60
36	B2	1828	C	O4'-C1'-C2'	-5.71	101.89	107.60
82	CG	100	HIS	CA-CB-CG	-5.71	108.09	113.80
85	A5	407	A	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	973	G	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	2340	C	C3'-C2'-C1'	5.71	107.01	101.30
85	A5	2351	C	O5'-C5'-C4'	-5.71	102.93	111.50
85	A5	2793	G	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	3267	G	C5'-C4'-C3'	5.71	123.47	114.90
85	A5	5062	G	P-O5'-C5'	-5.71	112.33	120.90
31	AH	106	ARG	CD-NE-CZ	5.71	132.40	124.40
36	B2	1627	C	C4'-C3'-O3'	-5.71	104.43	113.00
36	B2	1661	A	C1'-O4'-C4'	-5.71	104.19	109.90
85	A5	1922	G	O4'-C1'-C2'	5.71	113.31	107.60
85	A5	3720	G	O4'-C1'-N9	5.71	117.07	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	549	C	O4'-C1'-C2'	-5.71	101.89	107.60
58	CW	35	LYS	N-CA-C	5.71	117.31	111.14
61	Ch	122	LYS	N-CA-CB	5.71	120.14	110.49
85	A5	907	C	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	1748	U	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	2712	G	C4'-C3'-C2'	-5.71	96.89	102.60
36	B2	351	G	C4'-C3'-C2'	-5.71	96.89	102.60
85	A5	1490	G	C3'-C2'-C1'	5.71	107.01	101.30
85	A5	4039	G	C1'-O4'-C4'	-5.71	104.19	109.90
85	A5	4867	G	O4'-C1'-C2'	5.71	113.31	107.60
85	A5	4970	C	N1-C1'-C2'	5.71	120.57	112.00
15	AB	21	VAL	N-CA-C	5.71	121.21	109.34
36	B2	1018	U	C1'-C2'-O2'	5.71	116.96	108.40
36	B2	1779	G	C3'-C2'-C1'	-5.71	95.59	101.30
85	A5	276	C	O4'-C1'-N1	-5.71	99.94	108.50
85	A5	307	A	P-O5'-C5'	-5.71	112.34	120.90
85	A5	441	G	C4'-C3'-O3'	-5.71	104.44	113.00
85	A5	691	C	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	2020	U	O3'-P-O5'	-5.71	95.44	104.00
5	AO	151	LEU	N-CA-CB	5.71	120.20	110.50
14	AT	41	LYS	N-CA-C	-5.71	105.15	111.71
36	B2	578	C	O4'-C1'-C2'	-5.71	101.89	107.60
36	B2	1115	U	O4'-C1'-N1	5.71	116.76	108.20
85	A5	91	G	P-O3'-C3'	5.71	128.76	120.20
85	A5	726	G	N9-C1'-C2'	5.71	120.56	112.00
85	A5	2094	G	O4'-C1'-N9	5.71	117.06	108.50
85	A5	2713	C	O4'-C1'-C2'	-5.71	101.89	107.60
85	A5	3746	A	C3'-C2'-C1'	5.71	107.01	101.30
31	AH	33	ASN	O-C-N	5.71	130.18	122.59
56	CX	50	LYS	N-CA-C	-5.71	99.83	108.67
28	AC	163	VAL	CA-C-N	5.70	125.63	119.76
28	AC	163	VAL	C-N-CA	5.70	125.63	119.76
66	Cd	112	THR	CA-C-N	5.70	132.43	121.54
66	Cd	112	THR	C-N-CA	5.70	132.43	121.54
85	A5	208	A	O4'-C1'-C2'	-5.70	101.90	107.60
85	A5	911	U	O4'-C1'-C2'	-5.70	101.90	107.60
36	B2	285	U	P-O5'-C5'	-5.70	112.35	120.90
36	B2	475	C	C3'-C2'-C1'	5.70	107.00	101.30
48	CD	261	VAL	CB-CA-C	-5.70	101.94	111.29
74	CC	356	ALA	CA-C-N	-5.70	113.03	120.44
74	CC	356	ALA	C-N-CA	-5.70	113.03	120.44
85	A5	2492	C	P-O5'-C5'	-5.70	112.35	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2636	U	O3'-P-O5'	-5.70	95.45	104.00
38	Cz	210	MET	CB-CG-SD	-5.70	95.60	112.70
85	A5	244	G	C3'-C2'-C1'	5.70	107.00	101.30
85	A5	515	C	C3'-C2'-C1'	5.70	107.00	101.30
85	A5	2279	A	C3'-C2'-C1'	5.70	107.00	101.30
81	CE	62	MET	N-CA-CB	5.70	120.35	110.44
33	AI	178	ARG	CD-NE-CZ	5.70	132.38	124.40
36	B2	429	C	N1-C1'-C2'	5.70	120.54	112.00
36	B2	694	G	C1'-O4'-C4'	-5.70	104.20	109.90
36	B2	917	U	O4'-C1'-N1	5.70	117.04	108.50
36	B2	1390	U	N1-C1'-C2'	5.70	120.54	112.00
36	B2	1558	C	O3'-P-O5'	-5.70	95.45	104.00
85	A5	644	G	C3'-C2'-C1'	-5.70	95.60	101.30
85	A5	1929	A	C1'-O4'-C4'	-5.70	104.20	109.90
36	B2	745	C	C3'-C2'-C1'	5.69	106.99	101.30
85	A5	1825	A	C1'-O4'-C4'	5.69	115.59	109.90
36	B2	691	G	O3'-P-O5'	-5.69	95.46	104.00
36	B2	952	G	O4'-C1'-N9	5.69	117.04	108.50
85	A5	1459	A	P-O5'-C5'	-5.69	112.36	120.90
85	A5	1918	U	C4'-C3'-O3'	-5.69	104.46	113.00
85	A5	3594	C	O4'-C1'-C2'	-5.69	101.91	107.60
2	Ag	294	ASP	CB-CA-C	5.69	120.06	111.18
36	B2	1332	A	C3'-C2'-C1'	5.69	106.99	101.30
36	B2	1653	U	O4'-C1'-N1	5.69	117.03	108.50
36	B2	1819	A	N9-C1'-C2'	5.69	120.53	112.00
85	A5	4454	G	O4'-C1'-C2'	-5.69	101.91	107.60
85	A5	4870	G	C1'-O4'-C4'	-5.69	104.01	109.70
17	AV	41	LYS	CB-CA-C	-5.69	109.49	117.23
36	B2	383	G	C3'-C2'-C1'	5.69	106.99	101.30
36	B2	641	A	O4'-C1'-N9	5.69	117.03	108.50
74	CC	32	ILE	CA-C-N	-5.69	115.19	122.98
74	CC	32	ILE	C-N-CA	-5.69	115.19	122.98
85	A5	2316	G	O4'-C1'-C2'	5.69	113.29	107.60
85	A5	2373	C	O4'-C1'-C2'	-5.69	101.91	107.60
85	A5	2597	G	P-O3'-C3'	5.69	128.73	120.20
85	A5	2768	C	O4'-C1'-C2'	-5.69	101.91	107.60
36	B2	212	C	O5'-C5'-C4'	-5.69	102.97	111.50
85	A5	2690	C	O4'-C1'-C2'	-5.69	101.91	107.60
1	Az	197	SER	CA-C-O	5.68	127.53	121.05
85	A5	1754	U	O4'-C4'-C3'	-5.68	98.31	104.00
85	A5	4870	G	OP1-P-O3'	-5.68	90.95	108.00
8	AS	139	THR	CA-C-O	5.68	121.23	117.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	AJ	165	TYR	O-C-N	-5.68	116.85	123.27
33	AI	184	ARG	CB-CG-CD	5.68	124.37	111.30
36	B2	193	C	O3'-P-O5'	-5.68	95.48	104.00
73	Cl	36	ARG	CA-C-O	-5.68	111.21	122.23
85	A5	513	U	P-O3'-C3'	5.68	128.72	120.20
85	A5	1897	A	O4'-C1'-C2'	5.68	113.28	107.60
85	A5	1928	C	O4'-C1'-N1	-5.68	99.68	108.20
31	AH	106	ARG	CA-CB-CG	-5.68	102.74	114.10
36	B2	831	G	C3'-C2'-C1'	-5.68	95.62	101.30
7	AM	30	GLY	CA-C-N	-5.68	115.46	122.84
7	AM	30	GLY	C-N-CA	-5.68	115.46	122.84
85	A5	18	C	C3'-C2'-C1'	5.68	106.98	101.30
85	A5	1218	G	C5'-C4'-C3'	5.68	124.52	116.00
85	A5	3247	A	P-O5'-C5'	5.68	128.52	120.00
85	A5	4752	U	O4'-C4'-C3'	-5.68	100.42	106.10
85	A5	1438	U	C4'-C3'-O3'	-5.68	104.48	113.00
1	Az	777	ALA	CA-C-N	5.68	132.54	121.41
1	Az	777	ALA	C-N-CA	5.68	132.54	121.41
17	AV	46	PHE	N-CA-C	-5.68	102.13	110.42
36	B2	302	A	O3'-P-O5'	-5.68	95.49	104.00
36	B2	561	A	C2'-C3'-O3'	5.68	122.21	113.70
85	A5	1280	C	C3'-C2'-C1'	5.68	107.18	101.50
85	A5	2403	A	O4'-C1'-C2'	-5.68	101.92	107.60
36	B2	79	A	O4'-C1'-N9	5.67	116.71	108.20
36	B2	1609	C	O4'-C1'-C2'	-5.67	101.92	107.60
85	A5	1377	G	O3'-P-O5'	5.67	112.51	104.00
85	A5	1428	U	O4'-C1'-C2'	-5.67	101.93	107.60
85	A5	2269	C	O4'-C1'-C2'	-5.67	101.92	107.60
85	A5	4230	C	C4'-C3'-C2'	-5.67	96.93	102.60
85	A5	4259	C	C3'-C2'-C1'	5.67	106.97	101.30
85	A5	4678	G	N9-C1'-C2'	-5.67	105.49	114.00
78	Co	105	GLN	N-CA-C	5.67	118.80	109.72
79	CJ	79	ALA	N-CA-C	-5.67	105.47	112.90
36	B2	379	C	C3'-C2'-C1'	5.67	106.97	101.30
36	B2	395	G	O4'-C1'-N9	5.67	117.01	108.50
42	CL	56	ARG	CA-C-N	5.67	126.97	120.85
42	CL	56	ARG	C-N-CA	5.67	126.97	120.85
48	CD	218	ALA	O-C-N	5.67	128.61	122.15
56	CX	61	PRO	CA-C-N	-5.67	110.84	122.58
56	CX	61	PRO	C-N-CA	-5.67	110.84	122.58
85	A5	1298	C	N1-C1'-C2'	5.67	120.51	112.00
85	A5	2414	G	O4'-C1'-N9	5.67	117.01	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2753	G	C4'-C3'-O3'	-5.67	104.49	113.00
85	A5	4325	A	C4'-C3'-O3'	-5.67	104.49	113.00
85	A5	4719	G	N9-C1'-C2'	5.67	120.51	112.00
86	A7	55	A	C1'-C2'-O2'	5.67	116.91	108.40
36	B2	799	U	P-O3'-C3'	5.67	128.71	120.20
82	CG	45	ILE	N-CA-CB	5.67	120.58	111.23
85	A5	657	C	O5'-C5'-C4'	-5.67	103.00	111.50
85	A5	1209	U	O4'-C1'-C2'	-5.67	101.93	107.60
85	A5	4709	U	C1'-C2'-O2'	5.67	116.90	108.40
15	AB	132	GLY	N-CA-C	5.67	121.25	113.99
15	AB	146	ARG	N-CA-C	5.67	118.14	108.90
36	B2	1397	U	C5'-C4'-C3'	5.67	123.70	115.20
36	B2	1778	C	O4'-C1'-N1	5.67	117.00	108.50
37	BC	53	A	C3'-C2'-C1'	5.67	106.97	101.30
55	CU	15	LYS	CA-C-N	5.67	132.37	121.54
55	CU	15	LYS	C-N-CA	5.67	132.37	121.54
59	CZ	17	ARG	N-CA-C	-5.67	104.50	111.75
85	A5	4543	G	C4'-C3'-O3'	-5.67	104.50	113.00
1	Az	306	ASN	CA-CB-CG	-5.67	106.93	112.60
21	Ab	29	ASN	CB-CA-C	-5.67	101.60	111.35
36	B2	554	A	C1'-C2'-O2'	5.67	116.90	108.40
36	B2	1025	U	O4'-C1'-C2'	-5.67	101.93	107.60
36	B2	1059	G	P-O3'-C3'	5.67	128.70	120.20
36	B2	1793	A	O4'-C1'-C2'	-5.67	101.93	107.60
85	A5	434	A	P-O3'-C3'	5.67	128.70	120.20
85	A5	2732	G	C1'-O4'-C4'	-5.67	104.23	109.90
85	A5	3628	G	C3'-C2'-C1'	-5.67	95.63	101.30
85	A5	4625	C	N1-C1'-C2'	5.67	120.50	112.00
85	A5	4759	C	O4'-C1'-N1	5.67	117.00	108.50
23	AD	125	PHE	CA-CB-CG	-5.67	108.14	113.80
28	AC	112	VAL	O-C-N	-5.67	115.49	122.57
36	B2	314	U	P-O3'-C3'	-5.67	111.70	120.20
85	A5	148	C	O4'-C1'-C2'	-5.67	101.94	107.60
85	A5	1507	C	C5'-C4'-C3'	5.67	124.50	116.00
85	A5	2034	G	C5'-C4'-C3'	-5.67	107.50	116.00
15	AB	74	LEU	N-CA-C	5.66	117.53	111.36
36	B2	1198	G	C3'-C2'-C1'	-5.66	95.64	101.30
36	B2	1863	A	C1'-O4'-C4'	5.66	115.36	109.70
85	A5	439	G	C5'-C4'-C3'	5.66	124.50	116.00
85	A5	711	A	O3'-P-O5'	5.66	112.50	104.00
85	A5	1295	C	O3'-P-O5'	-5.66	95.50	104.00
85	A5	1604	G	C3'-C2'-C1'	-5.66	95.64	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1984	A	N9-C1'-C2'	-5.66	105.50	114.00
86	A7	63	C	O4'-C1'-C2'	-5.66	101.94	107.60
85	A5	1285	U	C3'-C2'-C1'	5.66	106.96	101.30
85	A5	1772	C	C4'-C3'-C2'	-5.66	96.94	102.60
85	A5	1855	G	O5'-C5'-C4'	-5.66	103.01	111.50
85	A5	2760	G	O4'-C1'-N9	5.66	116.69	108.20
36	B2	53	C	C1'-O4'-C4'	5.66	115.56	109.90
77	Cp	36	LYS	CB-CA-C	5.66	119.56	109.65
85	A5	141	C	C3'-C2'-C1'	5.66	106.96	101.30
85	A5	1882	U	O4'-C1'-N1	5.66	116.69	108.20
85	A5	4270	C	O4'-C1'-C2'	-5.66	101.94	107.60
1	Az	206	ASP	N-CA-C	5.66	122.32	109.81
36	B2	588	G	C4'-C3'-O3'	-5.66	100.91	109.40
36	B2	1722	G	C5'-C4'-C3'	-5.66	107.51	116.00
38	Cz	100	VAL	N-CA-CB	5.66	120.57	111.23
85	A5	3646	A	C1'-O4'-C4'	5.66	115.36	109.70
1	Az	433	ASN	CA-C-O	5.66	126.16	119.48
36	B2	109	U	C2'-C3'-O3'	5.66	122.19	113.70
36	B2	1486	A	O4'-C1'-C2'	-5.66	101.94	107.60
85	A5	2708	U	O4'-C1'-N1	5.66	116.98	108.50
86	A7	98	G	O4'-C1'-N9	5.66	116.99	108.50
86	A7	75	G	P-O3'-C3'	5.66	128.69	120.20
28	AC	244	ILE	CB-CA-C	-5.65	104.51	112.14
36	B2	1142	G	O4'-C1'-N9	5.65	116.98	108.50
85	A5	4962	C	N1-C1'-C2'	5.65	120.48	112.00
86	A7	22	A	N9-C1'-C2'	5.65	120.48	112.00
87	A8	94	G	C4'-C3'-C2'	-5.65	96.95	102.60
36	B2	1255	G	P-O3'-C3'	-5.65	111.73	120.20
36	B2	1456	G	N9-C1'-C2'	5.65	120.47	112.00
36	B2	1643	U	C3'-C2'-C1'	5.65	106.95	101.30
74	CC	265	GLY	O-C-N	-5.65	113.16	123.10
85	A5	1368	A	O4'-C4'-C3'	-5.65	98.35	104.00
85	A5	3641	U	C3'-C2'-C1'	5.65	106.95	101.30
85	A5	66	A	C3'-C2'-C1'	5.65	106.95	101.30
85	A5	1806	G	N9-C1'-C2'	5.65	120.47	112.00
85	A5	5016	A	O4'-C1'-C2'	5.65	113.25	107.60
87	A8	38	U	C2'-C3'-O3'	5.65	117.97	109.50
36	B2	322	C	C3'-C2'-C1'	5.65	106.95	101.30
36	B2	960	U	C1'-O4'-C4'	-5.65	104.25	109.90
36	B2	1638	G	C3'-C2'-C1'	5.65	106.95	101.30
36	B2	1847	G	N9-C1'-C2'	-5.65	103.53	112.00
74	CC	321	ASN	N-CA-C	-5.65	98.77	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
79	CJ	116	GLY	N-CA-C	-5.65	102.39	112.22
85	A5	1169	G	O4'-C4'-C3'	-5.65	98.35	104.00
85	A5	1220	G	O4'-C1'-N9	5.65	116.97	108.50
85	A5	1552	G	O4'-C1'-N9	5.65	116.67	108.20
85	A5	4438	U	C4'-C3'-C2'	-5.65	96.95	102.60
85	A5	2335	C	C3'-C2'-C1'	5.65	106.95	101.30
85	A5	3728	A	N9-C1'-C2'	-5.65	103.53	112.00
85	A5	4858	C	P-O3'-C3'	5.65	128.67	120.20
13	AP	16	THR	N-CA-C	-5.64	100.04	109.24
33	AI	129	LEU	N-CA-C	-5.64	105.03	111.07
36	B2	547	G	O3'-P-O5'	-5.64	95.53	104.00
36	B2	831	G	O4'-C1'-N9	5.64	116.97	108.50
36	B2	1067	C	N1-C1'-C2'	5.64	120.47	112.00
36	B2	1743	G	C1'-O4'-C4'	-5.64	104.26	109.90
48	CD	281	ALA	CA-C-N	5.64	128.11	120.38
48	CD	281	ALA	C-N-CA	5.64	128.11	120.38
74	CC	150	LEU	O-C-N	-5.64	114.92	121.47
81	CE	144	ILE	CA-C-N	-5.64	113.23	122.26
81	CE	144	ILE	C-N-CA	-5.64	113.23	122.26
85	A5	1374	G	C1'-O4'-C4'	-5.64	104.25	109.90
86	A7	61	G	P-O3'-C3'	-5.64	111.73	120.20
86	A7	84	U	O4'-C1'-C2'	-5.64	100.16	105.80
36	B2	694	G	O4'-C1'-N9	5.64	116.97	108.50
50	CR	80	LYS	CB-CA-C	5.64	119.56	109.29
63	CB	292	LEU	CA-CB-CG	5.64	136.05	116.30
69	Cg	82	MET	CA-CB-CG	5.64	125.39	114.10
85	A5	183	C	C5'-C4'-C3'	5.64	124.46	116.00
85	A5	673	C	C1'-O4'-C4'	-5.64	104.26	109.90
85	A5	702	U	P-O5'-C5'	5.64	129.36	120.90
85	A5	2713	C	P-O5'-C5'	5.64	129.36	120.90
85	A5	4589	A	O4'-C1'-C2'	-5.64	100.16	105.80
85	A5	4728	U	O4'-C1'-N1	5.64	116.96	108.50
87	A8	78	G	O4'-C1'-N9	5.64	116.96	108.50
85	A5	2773	G	C1'-O4'-C4'	-5.64	104.26	109.90
85	A5	2864	A	O4'-C1'-C2'	-5.64	101.96	107.60
85	A5	5019	A	N9-C1'-C2'	5.64	120.46	112.00
3	AU	107	GLU	N-CA-C	5.64	122.27	109.81
74	CC	106	LYS	CA-C-N	5.64	128.63	120.79
74	CC	106	LYS	C-N-CA	5.64	128.63	120.79
85	A5	1265	G	P-O5'-C5'	-5.64	112.44	120.90
85	A5	1690	C	C3'-C2'-C1'	5.64	106.94	101.30
85	A5	2407	G	O4'-C1'-N9	5.64	116.66	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2618	G	O4'-C1'-N9	5.64	116.96	108.50
85	A5	3864	C	C3'-C2'-C1'	5.64	106.94	101.30
33	AI	129	LEU	CA-C-N	5.64	127.81	120.26
33	AI	129	LEU	C-N-CA	5.64	127.81	120.26
36	B2	743	U	O4'-C1'-N1	5.64	116.66	108.20
36	B2	1475	G	C4'-C3'-C2'	-5.64	96.96	102.60
36	B2	1705	C	O4'-C1'-C2'	-5.64	101.96	107.60
1	Az	223	PHE	CA-CB-CG	-5.64	108.16	113.80
30	AF	78	MET	O-C-N	5.64	130.17	123.24
36	B2	1616	U	N1-C1'-C2'	5.64	120.46	112.00
36	B2	1698	C	C3'-C2'-C1'	5.64	107.14	101.50
85	A5	2490	U	C5'-C4'-C3'	-5.64	107.55	116.00
85	A5	4060	U	C1'-O4'-C4'	5.64	115.54	109.90
22	Ac	63	ARG	CA-C-N	-5.63	110.78	121.54
22	Ac	63	ARG	C-N-CA	-5.63	110.78	121.54
36	B2	520	A	C1'-O4'-C4'	-5.63	104.27	109.90
36	B2	1744	G	C1'-O4'-C4'	5.63	115.33	109.70
57	CY	111	LEU	N-CA-C	5.63	118.91	109.95
81	CE	132	PRO	CA-N-CD	-5.63	103.61	111.50
85	A5	34	A	O4'-C1'-C2'	-5.63	101.97	107.60
85	A5	1581	G	O4'-C1'-N9	5.63	116.95	108.50
85	A5	4123	C	O4'-C4'-C3'	5.63	109.64	104.00
38	Cz	197	ASN	CA-CB-CG	-5.63	106.97	112.60
82	CG	210	GLU	CA-C-N	-5.63	113.21	122.79
82	CG	210	GLU	C-N-CA	-5.63	113.21	122.79
85	A5	1084	C	O4'-C1'-N1	5.63	116.95	108.50
85	A5	4660	G	O4'-C1'-C2'	5.63	113.23	107.60
1	Az	358	LEU	CA-C-N	-5.63	114.94	120.52
1	Az	358	LEU	C-N-CA	-5.63	114.94	120.52
21	Ab	67	THR	N-CA-C	5.63	115.45	108.19
36	B2	1446	A	C2'-C3'-O3'	-5.63	101.05	109.50
81	CE	229	GLU	N-CA-C	-5.63	98.81	110.80
85	A5	973	G	O4'-C4'-C3'	-5.63	98.37	104.00
85	A5	2291	G	O3'-P-O5'	-5.63	95.55	104.00
86	A7	68	C	C3'-C2'-C1'	5.63	106.93	101.30
11	AL	6	THR	CA-C-N	-5.63	110.79	121.54
11	AL	6	THR	C-N-CA	-5.63	110.79	121.54
15	AB	233	GLY	CA-C-O	-5.63	108.98	120.80
36	B2	1843	G	C1'-O4'-C4'	-5.63	104.27	109.90
85	A5	2899	C	C3'-C2'-C1'	5.63	106.93	101.30
85	A5	4130	C	O4'-C1'-C2'	-5.63	101.97	107.60
87	A8	36	G	P-O5'-C5'	5.63	129.34	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AY	26	ASP	N-CA-C	-5.63	99.23	108.41
28	AC	74	LYS	CA-C-N	-5.63	116.21	123.19
28	AC	74	LYS	C-N-CA	-5.63	116.21	123.19
36	B2	159	A	O4'-C1'-C2'	-5.63	101.97	107.60
36	B2	1183	A	O4'-C1'-C2'	-5.63	101.97	107.60
42	CL	161	TYR	CA-CB-CG	5.63	124.03	113.90
59	CZ	135	ARG	CB-CA-C	-5.63	101.68	110.74
81	CE	278	THR	CB-CA-C	5.63	121.62	110.42
85	A5	1919	G	P-O3'-C3'	5.63	128.64	120.20
85	A5	4772	C	O4'-C1'-C2'	-5.63	101.97	107.60
86	A7	61	G	O3'-P-O5'	5.63	112.44	104.00
36	B2	794	A	C3'-C2'-C1'	5.63	106.93	101.30
36	B2	922	A	O4'-C1'-N9	5.63	116.94	108.50
36	B2	1642	U	C1'-O4'-C4'	5.63	115.53	109.90
36	B2	1735	A	N9-C1'-C2'	5.63	120.44	112.00
81	CE	234	ASP	CA-C-O	5.63	128.56	120.51
85	A5	516	C	C4'-C3'-C2'	-5.63	96.97	102.60
85	A5	669	C	C2'-C3'-O3'	5.63	117.94	109.50
85	A5	2105	A	N9-C1'-C2'	5.63	120.44	112.00
85	A5	4994	G	O4'-C1'-C2'	5.63	113.23	107.60
85	A5	5013	C	C2'-C3'-O3'	5.63	117.94	109.50
12	AR	122	PRO	N-CA-C	5.62	124.06	112.47
33	AI	207	GLY	CA-C-O	-5.62	108.99	120.80
85	A5	4337	C	P-O5'-C5'	5.62	129.34	120.90
1	Az	392	GLY	C-N-CD	-5.62	101.95	125.00
1	Az	477	GLN	CA-C-N	-5.62	113.26	122.54
1	Az	477	GLN	C-N-CA	-5.62	113.26	122.54
36	B2	1627	C	N1-C1'-C2'	5.62	120.44	112.00
45	Ca	13	GLY	N-CA-C	-5.62	107.79	114.48
85	A5	666	G	C2'-C3'-O3'	5.62	122.13	113.70
85	A5	4280	A	N9-C1'-C2'	5.62	120.43	112.00
85	A5	4756	C	C4'-C3'-O3'	5.62	117.84	109.40
87	A8	33	G	C2'-C3'-O3'	5.62	117.93	109.50
19	AZ	115	GLY	CA-C-O	-5.62	109.00	120.80
36	B2	114	G	O4'-C4'-C3'	-5.62	100.48	106.10
36	B2	1158	G	O4'-C1'-N9	5.62	116.93	108.50
85	A5	2761	U	C5'-C4'-C3'	5.62	124.43	116.00
86	A7	66	G	P-O3'-C3'	5.62	128.63	120.20
86	A7	72	U	N1-C1'-C2'	5.62	120.43	112.00
85	A5	2802	C	C3'-C2'-C1'	5.62	106.92	101.30
85	A5	4545	G	C5'-C4'-O4'	-5.62	101.37	109.80
14	AT	38	LYS	N-CA-C	5.62	117.48	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AY	128	GLY	CA-C-O	-5.62	109.00	120.80
36	B2	1118	C	C1'-C2'-O2'	5.62	116.83	108.40
57	CY	83	GLU	CA-CB-CG	-5.62	102.86	114.10
85	A5	4088	C	O4'-C1'-C2'	-5.62	101.98	107.60
1	Az	111	PHE	N-CA-C	-5.62	105.05	112.24
34	AQ	145	TYR	N-CA-C	-5.62	99.69	108.00
45	Ca	89	ASN	CB-CA-C	-5.62	110.08	116.54
45	Ca	109	TYR	CA-CB-CG	-5.62	103.79	113.90
85	A5	331	G	C3'-C2'-C1'	-5.62	95.68	101.30
8	AS	82	TRP	N-CA-C	5.62	119.23	112.38
8	AS	141	ARG	CA-C-N	-5.62	111.59	121.70
8	AS	141	ARG	C-N-CA	-5.62	111.59	121.70
36	B2	77	A	C5'-C4'-C3'	5.62	124.42	116.00
36	B2	1143	A	N9-C1'-C2'	5.62	120.42	112.00
36	B2	1855	G	O4'-C1'-C2'	5.62	113.22	107.60
37	BC	17	G	C4'-C3'-O3'	5.62	117.82	109.40
55	CU	76	VAL	CB-CA-C	5.62	121.58	111.36
85	A5	296	A	C1'-O4'-C4'	5.62	115.52	109.90
85	A5	468	U	O4'-C1'-C2'	-5.62	101.98	107.60
85	A5	978	G	N9-C1'-C2'	5.62	120.42	112.00
85	A5	1494	U	P-O3'-C3'	-5.62	111.78	120.20
85	A5	1957	U	O4'-C1'-C2'	-5.62	101.98	107.60
26	AJ	188	GLY	CA-C-O	-5.61	109.01	120.80
27	AE	70	ILE	N-CA-C	5.61	115.94	107.75
81	CE	128	HIS	CA-C-N	5.61	132.41	121.41
81	CE	128	HIS	C-N-CA	5.61	132.41	121.41
85	A5	3626	G	C4'-C3'-C2'	-5.61	96.99	102.60
59	CZ	4	PHE	CA-C-N	-5.61	110.82	121.54
59	CZ	4	PHE	C-N-CA	-5.61	110.82	121.54
85	A5	4991	U	C5'-C4'-C3'	5.61	124.42	116.00
60	Cr	28	GLU	CA-CB-CG	-5.61	102.88	114.10
85	A5	2052	G	O4'-C1'-C2'	-5.61	101.99	107.60
85	A5	2067	C	O4'-C1'-C2'	-5.61	101.99	107.60
85	A5	2392	C	O4'-C1'-C2'	-5.61	101.99	107.60
87	A8	51	U	C1'-C2'-O2'	5.61	120.21	111.80
36	B2	466	G	O4'-C1'-C2'	5.61	113.21	107.60
36	B2	863	U	N1-C1'-C2'	5.61	120.41	112.00
36	B2	1452	A	O4'-C1'-C2'	-5.61	100.19	105.80
36	B2	1116	C	C1'-C2'-O2'	5.61	120.21	111.80
50	CR	44	LEU	N-CA-C	-5.61	105.17	111.28
63	CB	325	GLU	N-CA-C	5.61	118.47	111.24
70	Ci	63	VAL	O-C-N	-5.61	115.56	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
84	Cu	45	GLU	O-C-N	5.61	127.85	122.07
85	A5	981	C	O5'-C5'-C4'	-5.61	103.09	111.50
85	A5	4047	A	O4'-C1'-C2'	-5.61	101.99	107.60
36	B2	1865	C	P-O3'-C3'	-5.61	111.79	120.20
85	A5	926	G	C1'-C2'-O2'	5.61	120.21	111.80
85	A5	1835	G	P-O5'-C5'	-5.61	112.49	120.90
85	A5	2882	A	C1'-O4'-C4'	5.61	115.51	109.90
85	A5	4715	C	O4'-C1'-N1	5.61	116.91	108.50
36	B2	203	G	O4'-C1'-N9	5.60	116.91	108.50
39	Cq	129	GLY	N-CA-C	-5.60	107.53	115.43
85	A5	35	U	O4'-C1'-N1	5.60	116.91	108.50
23	AD	14	ASP	CA-CB-CG	-5.60	107.00	112.60
35	Ah	143	GLU	O-C-N	-5.60	115.14	122.59
36	B2	836	G	O4'-C1'-N9	5.60	116.90	108.50
36	B2	1853	C	C1'-O4'-C4'	-5.60	104.30	109.90
68	Cf	59	THR	CA-CB-CG2	5.60	120.03	110.50
85	A5	490	C	N1-C1'-C2'	5.60	120.40	112.00
85	A5	1346	C	C4'-C3'-O3'	-5.60	104.59	113.00
85	A5	1760	G	O4'-C1'-C2'	5.60	113.20	107.60
85	A5	4530	U	O4'-C1'-C2'	-5.60	102.00	107.60
85	A5	4909	A	O4'-C1'-C2'	-5.60	100.20	105.80
36	B2	315	C	P-O5'-C5'	-5.60	112.50	120.90
70	Ci	11	LEU	N-CA-C	5.60	117.02	110.41
12	AR	87	GLU	N-CA-C	-5.60	105.26	111.36
33	AI	157	LYS	N-CA-C	-5.60	105.08	111.07
68	Cf	63	LYS	CA-C-O	-5.60	112.49	120.16
85	A5	4130	C	P-O5'-C5'	-5.60	112.50	120.90
85	A5	4141	G	N9-C1'-C2'	5.60	120.40	112.00
36	B2	1072	U	P-O3'-C3'	5.60	128.59	120.20
85	A5	136	C	P-O5'-C5'	5.60	129.30	120.90
85	A5	4160	C	O4'-C1'-C2'	-5.60	102.00	107.60
85	A5	4296	U	P-O5'-C5'	5.60	129.30	120.90
36	B2	1522	A	C5'-C4'-O4'	5.60	118.19	109.80
85	A5	522	C	O4'-C1'-C2'	-5.60	102.00	107.60
85	A5	3738	G	O4'-C1'-C2'	-5.60	102.00	107.60
85	A5	4463	U	C2'-C3'-O3'	-5.60	105.31	113.70
36	B2	1197	G	O4'-C1'-N9	5.59	116.89	108.50
36	B2	1578	U	C1'-O4'-C4'	5.59	115.29	109.70
39	Cq	107	VAL	N-CA-C	5.59	120.96	108.88
85	A5	1614	C	C3'-C2'-C1'	5.59	106.89	101.30
85	A5	3792	G	C1'-O4'-C4'	-5.59	104.31	109.90
85	A5	80	C	C1'-C2'-O2'	5.59	116.79	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1289	C	O4'-C1'-N1	5.59	116.89	108.50
85	A5	1483	C	N1-C1'-C2'	5.59	120.39	112.00
85	A5	2583	C	O4'-C1'-C2'	-5.59	102.01	107.60
1	Az	855	LEU	N-CA-C	5.59	117.57	109.07
30	AF	60	ARG	N-CA-C	5.59	117.18	111.14
36	B2	1687	C	C3'-C2'-C1'	5.59	106.89	101.30
47	CI	4	ARG	CA-CB-CG	-5.59	102.92	114.10
85	A5	1872	G	O4'-C1'-N9	5.59	116.89	108.50
85	A5	3730	U	O4'-C1'-N1	5.59	116.89	108.50
86	A7	109	U	O4'-C1'-N1	5.59	116.59	108.20
8	AS	139	THR	O-C-N	5.59	125.66	121.47
36	B2	746	C	C4'-C3'-C2'	-5.59	97.01	102.60
54	CP	123	PRO	CA-C-O	-5.59	115.04	121.36
85	A5	79	C	C1'-C2'-O2'	5.59	116.78	108.40
85	A5	688	U	C1'-O4'-C4'	-5.59	104.31	109.90
85	A5	4347	G	C1'-O4'-C4'	-5.59	104.31	109.90
85	A5	4696	C	C3'-C2'-C1'	5.59	106.89	101.30
15	AB	21	VAL	CB-CA-C	-5.59	102.13	111.29
60	Cr	112	ARG	CB-CA-C	-5.59	101.51	110.79
85	A5	3862	A	O4'-C1'-C2'	-5.59	102.01	107.60
36	B2	1824	A	P-O3'-C3'	5.59	128.58	120.20
37	BC	60	C	C3'-C2'-C1'	5.59	106.89	101.30
63	CB	55	HIS	N-CA-CB	5.59	120.18	110.07
85	A5	488	G	N9-C1'-C2'	-5.59	103.62	112.00
85	A5	4380	A	C1'-O4'-C4'	5.59	115.29	109.70
85	A5	5002	U	C5'-C4'-C3'	-5.59	107.62	116.00
82	CG	125	LYS	N-CA-C	5.58	122.70	110.80
11	AL	22	ARG	CA-C-N	5.58	132.02	121.97
11	AL	22	ARG	C-N-CA	5.58	132.02	121.97
36	B2	61	A	O4'-C1'-N9	5.58	116.88	108.50
36	B2	979	C	O4'-C1'-C2'	-5.58	102.02	107.60
36	B2	1542	C	N1-C1'-C2'	5.58	120.37	112.00
36	B2	1677	U	O4'-C1'-N1	5.58	116.88	108.50
39	Cq	133	GLU	CA-C-N	-5.58	110.88	121.54
39	Cq	133	GLU	C-N-CA	-5.58	110.88	121.54
85	A5	2345	G	C4'-C3'-O3'	5.58	117.77	109.40
87	A8	119	C	O4'-C1'-C2'	-5.58	102.02	107.60
1	Az	542	GLY	N-CA-C	-5.58	99.95	113.18
36	B2	1507	G	C3'-C2'-C1'	-5.58	95.92	101.50
85	A5	621	G	P-O3'-C3'	5.58	128.57	120.20
33	AI	155	ASN	CB-CA-C	-5.58	101.53	110.79
85	A5	1444	G	O3'-P-O5'	-5.58	95.63	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2128	G	P-O5'-C5'	5.58	129.27	120.90
85	A5	2352	U	N1-C1'-C2'	5.58	120.37	112.00
85	A5	4404	U	N1-C1'-C2'	-5.58	105.63	114.00
36	B2	84	A	P-O5'-C5'	-5.58	112.53	120.90
36	B2	694	G	C3'-C2'-C1'	-5.58	95.72	101.30
36	B2	752	G	O3'-P-O5'	5.58	112.37	104.00
36	B2	860	G	O4'-C1'-C2'	-5.58	102.02	107.60
74	CC	92	PHE	CA-C-N	-5.58	110.48	121.41
74	CC	92	PHE	C-N-CA	-5.58	110.48	121.41
78	Co	27	LYS	N-CA-C	-5.58	102.26	110.52
82	CG	39	PHE	CA-C-N	5.58	128.19	121.38
82	CG	39	PHE	C-N-CA	5.58	128.19	121.38
85	A5	346	G	O4'-C1'-N9	5.58	116.87	108.50
85	A5	1378	C	C4'-C3'-C2'	-5.58	97.02	102.60
85	A5	3708	C	N1-C1'-C2'	5.58	120.37	112.00
17	AV	82	ASN	CB-CA-C	-5.58	99.50	110.10
36	B2	324	C	C1'-C2'-O2'	5.58	116.77	108.40
36	B2	1647	A	C3'-C2'-C1'	-5.58	95.92	101.50
61	Ch	118	LYS	O-C-N	-5.58	115.17	122.59
85	A5	69	A	C3'-C2'-C1'	5.58	106.88	101.30
85	A5	309	C	O4'-C1'-C2'	-5.58	102.03	107.60
85	A5	338	A	C4'-C3'-O3'	-5.58	104.64	113.00
85	A5	733	A	N9-C1'-C2'	5.58	120.36	112.00
85	A5	1201	U	C1'-O4'-C4'	-5.58	104.32	109.90
85	A5	1583	A	N9-C1'-C2'	-5.58	103.64	112.00
1	Az	289	PHE	N-CA-C	-5.57	105.20	111.28
22	Ac	64	GLU	N-CA-C	5.57	122.67	110.80
36	B2	844	U	P-O3'-C3'	-5.57	111.84	120.20
36	B2	1237	C	C1'-C2'-O2'	5.57	116.76	108.40
72	Ck	48	THR	CB-CA-C	-5.57	99.01	110.38
78	Co	34	TYR	CA-C-N	5.57	129.61	121.31
78	Co	34	TYR	C-N-CA	5.57	129.61	121.31
85	A5	220	C	C5'-C4'-C3'	-5.57	107.64	116.00
86	A7	97	G	O4'-C1'-C2'	5.57	113.17	107.60
52	CS	86	SER	CB-CA-C	5.57	121.51	110.42
81	CE	115	TYR	N-CA-C	5.57	122.67	110.80
2	Ag	101	PHE	CA-CB-CG	-5.57	108.23	113.80
36	B2	321	C	N1-C1'-C2'	5.57	120.36	112.00
36	B2	1066	U	O4'-C1'-N1	5.57	116.86	108.50
85	A5	1312	A	O4'-C1'-C2'	-5.57	102.03	107.60
85	A5	2620	G	O4'-C1'-C2'	5.57	113.17	107.60
85	A5	3700	C	C1'-O4'-C4'	-5.57	104.33	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	AT	8	ASP	CA-CB-CG	-5.57	107.03	112.60
36	B2	552	G	C3'-C2'-C1'	-5.57	95.73	101.30
85	A5	2303	C	C5'-C4'-C3'	-5.57	107.65	116.00
19	AZ	78	LYS	N-CA-C	-5.57	98.94	110.80
36	B2	686	U	O4'-C1'-N1	5.57	116.85	108.50
36	B2	850	C	N1-C1'-C2'	5.57	120.35	112.00
36	B2	1111	U	O4'-C1'-C2'	-5.57	102.03	107.60
36	B2	1122	A	C1'-O4'-C4'	5.57	115.47	109.90
36	B2	1851	A	P-O3'-C3'	5.57	128.55	120.20
85	A5	2348	G	C2'-C3'-O3'	-5.57	101.15	109.50
85	A5	3678	G	C3'-C2'-C1'	5.57	107.07	101.50
46	CN	49	ARG	CA-C-O	5.57	127.03	120.96
85	A5	450	G	O3'-P-O5'	5.57	112.35	104.00
85	A5	4747	C	O3'-P-O5'	5.57	112.35	104.00
85	A5	704	C	C5'-C4'-C3'	-5.56	107.65	116.00
85	A5	3613	U	O4'-C1'-N1	5.56	116.84	108.50
85	A5	3684	G	O4'-C1'-C2'	5.56	113.16	107.60
85	A5	4259	C	N1-C1'-C2'	5.56	120.35	112.00
1	Az	53	GLU	CA-C-N	5.56	132.16	121.54
1	Az	53	GLU	C-N-CA	5.56	132.16	121.54
36	B2	793	G	C4'-C3'-C2'	-5.56	97.04	102.60
36	B2	995	G	O4'-C1'-N9	5.56	116.84	108.50
36	B2	1441	U	O4'-C1'-C2'	-5.56	100.24	105.80
36	B2	1475	G	O4'-C1'-C2'	5.56	111.36	105.80
37	BC	24	U	O4'-C1'-C2'	-5.56	102.04	107.60
85	A5	707	C	N1-C1'-C2'	5.56	120.34	112.00
85	A5	2246	C	O4'-C1'-N1	5.56	116.84	108.50
85	A5	2445	C	N1-C1'-C2'	5.56	120.34	112.00
85	A5	2860	C	O4'-C1'-C2'	-5.56	102.04	107.60
85	A5	4372	U	O4'-C4'-C3'	-5.56	98.44	104.00
85	A5	1472	C	O4'-C1'-N1	5.56	116.84	108.50
85	A5	3832	U	C4'-C3'-C2'	-5.56	97.04	102.60
3	AU	108	PRO	N-CA-C	-5.56	102.54	111.38
85	A5	1367	C	P-O3'-C3'	-5.56	111.86	120.20
85	A5	1482	G	C1'-C2'-O2'	5.56	116.74	108.40
85	A5	2642	A	O4'-C1'-C2'	-5.56	102.04	107.60
85	A5	4343	U	C5'-C4'-C3'	-5.56	107.66	116.00
85	A5	4890	G	O4'-C4'-C3'	-5.56	98.44	104.00
32	AW	88	LYS	N-CA-C	5.56	117.14	111.14
36	B2	1670	C	O4'-C1'-C2'	-5.56	102.04	107.60
85	A5	1431	C	O4'-C1'-C2'	-5.56	102.04	107.60
85	A5	2116	C	C1'-C2'-O2'	-5.56	103.47	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3603	G	O4'-C1'-C2'	5.56	113.16	107.60
11	AL	157	LYS	CA-C-N	5.56	131.70	121.70
11	AL	157	LYS	C-N-CA	5.56	131.70	121.70
36	B2	366	U	O4'-C1'-C2'	-5.56	102.04	107.60
53	CT	69	GLN	CA-C-N	-5.56	110.93	121.54
53	CT	69	GLN	C-N-CA	-5.56	110.93	121.54
60	Cr	111	ILE	CB-CA-C	5.56	119.32	112.04
60	Cr	104	PRO	O-C-N	5.55	130.14	122.64
85	A5	1101	C	C3'-C2'-C1'	5.55	106.86	101.30
85	A5	1676	C	P-O3'-C3'	5.55	128.53	120.20
85	A5	2007	G	C3'-C2'-C1'	-5.55	95.94	101.50
77	Cp	16	THR	N-CA-C	-5.55	106.34	114.39
85	A5	115	C	P-O3'-C3'	5.55	128.53	120.20
85	A5	1372	A	O4'-C1'-N9	5.55	116.83	108.50
33	AI	105	ASP	CB-CA-C	5.55	121.47	110.42
36	B2	882	U	O4'-C1'-N1	5.55	116.83	108.50
36	B2	1141	G	P-O5'-C5'	5.55	129.23	120.90
47	CI	185	VAL	N-CA-C	-5.55	107.41	112.96
85	A5	2761	U	C5'-C4'-O4'	-5.55	101.47	109.80
85	A5	3697	U	O4'-C1'-N1	5.55	116.83	108.50
85	A5	3772	U	O3'-P-O5'	-5.55	95.67	104.00
36	B2	1241	A	P-O3'-C3'	5.55	128.53	120.20
36	B2	1729	U	O4'-C1'-N1	5.55	116.83	108.50
60	Cr	80	THR	CA-C-O	-5.55	111.85	119.12
85	A5	923	C	O4'-C1'-C2'	-5.55	102.05	107.60
85	A5	1407	C	C4'-C3'-C2'	-5.55	97.05	102.60
85	A5	3657	U	O4'-C1'-C2'	-5.55	102.05	107.60
36	B2	65	C	C1'-O4'-C4'	5.55	115.45	109.90
36	B2	1655	C	O4'-C1'-C2'	-5.55	102.05	107.60
85	A5	1237	C	C5'-C4'-C3'	5.55	124.32	116.00
85	A5	1410	U	C2'-C3'-O3'	5.55	122.02	113.70
85	A5	1961	G	O4'-C1'-C2'	-5.55	100.25	105.80
85	A5	3731	C	O4'-C4'-C3'	-5.55	98.45	104.00
40	CK	43	GLY	O-C-N	5.55	128.12	122.24
85	A5	932	A	O4'-C1'-N9	5.55	116.82	108.50
85	A5	939	G	C1'-O4'-C4'	-5.55	104.35	109.90
85	A5	1740	C	O4'-C1'-N1	5.55	116.52	108.20
85	A5	1919	G	N9-C1'-C2'	5.55	122.32	114.00
85	A5	3695	U	O4'-C1'-N1	5.55	116.82	108.50
85	A5	4489	G	O4'-C1'-C2'	-5.55	102.05	107.60
24	Ae	41	ARG	N-CA-C	5.54	117.13	111.14
36	B2	1238	U	C4'-C3'-O3'	-5.54	104.68	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	CF	241	ASN	CA-CB-CG	-5.54	107.06	112.60
81	CE	70	LYS	CA-C-N	-5.54	111.10	120.58
81	CE	70	LYS	C-N-CA	-5.54	111.10	120.58
85	A5	4025	C	C5'-C4'-C3'	5.54	123.22	114.90
85	A5	4211	C	C3'-C2'-C1'	5.54	106.84	101.30
27	AE	167	GLY	N-CA-C	-5.54	101.53	110.95
36	B2	1653	U	O4'-C1'-C2'	-5.54	102.06	107.60
85	A5	161	G	C4'-C3'-C2'	-5.54	97.06	102.60
85	A5	676	C	O3'-P-O5'	5.54	112.31	104.00
85	A5	2250	C	C3'-C2'-C1'	5.54	106.84	101.30
85	A5	2647	A	C3'-C2'-C1'	5.54	106.84	101.30
85	A5	2670	C	O4'-C1'-C2'	-5.54	102.06	107.60
36	B2	796	G	C3'-C2'-C1'	-5.54	95.76	101.30
36	B2	988	C	N1-C1'-C2'	5.54	120.31	112.00
36	B2	1446	A	O3'-P-O5'	-5.54	95.69	104.00
47	CI	205	PRO	CA-C-N	-5.54	110.95	121.54
47	CI	205	PRO	C-N-CA	-5.54	110.95	121.54
85	A5	1231	C	O4'-C1'-N1	5.54	116.81	108.50
85	A5	1405	C	O4'-C1'-C2'	-5.54	102.06	107.60
85	A5	1586	G	C3'-C2'-C1'	5.54	106.84	101.30
85	A5	2353	U	O4'-C1'-C2'	-5.54	102.06	107.60
85	A5	2679	G	O4'-C1'-N9	5.54	116.81	108.50
85	A5	4064	C	N1-C1'-C2'	5.54	120.31	112.00
85	A5	4175	G	O4'-C1'-C2'	5.54	113.14	107.60
85	A5	4564	A	C3'-C2'-C1'	5.54	106.84	101.30
85	A5	4973	U	O4'-C1'-N1	5.54	116.81	108.50
36	B2	1220	A	C1'-O4'-C4'	-5.54	104.36	109.90
85	A5	1832	C	N1-C1'-C2'	5.54	120.31	112.00
85	A5	2392	C	C3'-C2'-C1'	5.54	106.84	101.30
85	A5	4861	G	O4'-C1'-N9	5.54	116.81	108.50
14	AT	51	ASN	CA-CB-CG	-5.54	107.06	112.60
63	CB	255	GLY	O-C-N	-5.54	115.50	122.70
85	A5	138	G	O4'-C1'-N9	5.54	116.81	108.50
85	A5	909	A	O4'-C1'-N9	5.54	116.81	108.50
85	A5	1448	G	C4'-C3'-O3'	-5.54	104.69	113.00
85	A5	2261	G	N9-C1'-C2'	5.54	120.31	112.00
87	A8	19	C	C4'-C3'-O3'	-5.54	104.69	113.00
36	B2	1194	A	O3'-P-O5'	-5.54	95.69	104.00
36	B2	1358	U	O4'-C1'-N1	5.54	116.81	108.50
85	A5	3810	C	C1'-C2'-O2'	5.54	120.11	111.80
16	AA	165	ASN	N-CA-C	5.54	122.59	110.80
24	Ae	26	LYS	CA-C-N	-5.54	110.94	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	Ae	26	LYS	C-N-CA	-5.54	110.94	122.07
47	CI	175	LYS	N-CA-C	-5.54	99.01	110.80
72	Ck	30	ASP	O-C-N	-5.54	115.23	122.59
85	A5	1084	C	O4'-C1'-C2'	-5.54	102.06	107.60
85	A5	2531	C	C2'-C3'-O3'	5.54	117.81	109.50
85	A5	4170	A	C2'-C3'-O3'	5.54	117.80	109.50
85	A5	4991	U	N1-C1'-C2'	5.54	120.30	112.00
1	Az	685	TRP	CB-CG-CD2	-5.53	119.05	126.80
31	AH	93	VAL	N-CA-C	5.53	120.85	109.34
36	B2	586	G	O4'-C1'-C2'	-5.53	102.07	107.60
85	A5	345	C	O4'-C1'-C2'	-5.53	102.07	107.60
85	A5	3964	U	C1'-O4'-C4'	5.53	115.23	109.70
85	A5	4440	G	N9-C1'-C2'	5.53	120.30	112.00
85	A5	4687	A	O4'-C1'-C2'	-5.53	102.07	107.60
86	A7	79	U	O4'-C1'-N1	5.53	116.80	108.50
8	AS	89	ASP	CB-CA-C	-5.53	99.41	110.42
37	BC	57	A	O4'-C1'-C2'	-5.53	100.27	105.80
85	A5	2408	U	N1-C1'-C2'	5.53	122.30	114.00
16	AA	193	HIS	CA-C-O	-5.53	114.94	120.64
36	B2	447	A	C1'-O4'-C4'	5.53	115.23	109.70
36	B2	1656	G	C1'-O4'-C4'	-5.53	104.37	109.90
82	CG	86	ALA	N-CA-C	5.53	122.58	110.80
87	A8	17	A	C3'-C2'-C1'	5.53	106.83	101.30
1	Az	3	ASN	N-CA-C	-5.53	95.52	111.00
66	Cd	18	ASN	CA-C-N	5.53	133.09	123.91
66	Cd	18	ASN	C-N-CA	5.53	133.09	123.91
67	Ce	17	THR	N-CA-CB	-5.53	102.27	111.06
85	A5	1215	C	C4'-C3'-C2'	-5.53	97.07	102.60
85	A5	1787	A	N9-C1'-C2'	5.53	120.29	112.00
85	A5	4075	U	N1-C1'-C2'	-5.53	105.71	114.00
85	A5	4137	C	C3'-C2'-C1'	5.53	106.83	101.30
36	B2	348	A	N9-C1'-C2'	5.53	120.29	112.00
85	A5	1331	C	C4'-C3'-C2'	-5.53	97.07	102.60
85	A5	2406	G	C4'-C3'-O3'	-5.53	104.71	113.00
15	AB	75	GLN	O-C-N	5.53	129.41	122.23
32	AW	128	PHE	N-CA-C	5.53	116.67	108.60
36	B2	587	A	P-O3'-C3'	-5.53	111.91	120.20
36	B2	812	A	O4'-C1'-C2'	-5.53	102.07	107.60
39	Cq	13	TYR	N-CA-C	-5.53	104.90	111.03
39	Cq	17	ILE	CB-CA-C	5.53	119.04	111.97
78	Co	66	ILE	N-CA-C	5.53	120.83	109.34
85	A5	1097	C	O4'-C1'-C2'	-5.53	102.07	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1486	C	C3'-C2'-C1'	5.53	106.83	101.30
85	A5	3744	G	C1'-O4'-C4'	-5.53	104.37	109.90
85	A5	3828	A	O4'-C1'-C2'	-5.53	102.08	107.60
85	A5	4430	G	O4'-C1'-C2'	5.53	113.13	107.60
36	B2	1312	G	O4'-C1'-N9	-5.52	99.91	108.20
36	B2	1551	U	N1-C1'-C2'	5.52	120.29	112.00
85	A5	5059	C	O4'-C1'-C2'	-5.52	102.08	107.60
37	BC	73	C	N1-C1'-C2'	5.52	120.28	112.00
38	Cz	201	VAL	CB-CA-C	-5.52	106.39	112.68
52	CS	17	LEU	CA-CB-CG	5.52	135.63	116.30
85	A5	651	C	O4'-C1'-C2'	-5.52	102.08	107.60
85	A5	2119	C	P-O5'-C5'	5.52	129.18	120.90
85	A5	2769	U	C1'-O4'-C4'	-5.52	104.38	109.90
13	AP	28	MET	CA-C-O	5.52	128.41	120.51
36	B2	98	C	N1-C1'-C2'	-5.52	105.72	114.00
63	CB	359	ALA	N-CA-C	-5.52	101.54	110.32
85	A5	2718	U	C1'-O4'-C4'	5.52	115.42	109.90
4	AK	40	VAL	O-C-N	5.52	127.39	121.10
36	B2	910	G	O4'-C1'-C2'	5.52	113.12	107.60
74	CC	348	LYS	CA-C-N	5.52	127.95	120.44
74	CC	348	LYS	C-N-CA	5.52	127.95	120.44
81	CE	123	ARG	NE-CZ-NH1	-5.52	115.98	121.50
85	A5	3815	G	N9-C1'-C2'	5.52	120.28	112.00
85	A5	4603	C	O4'-C1'-C2'	-5.52	102.08	107.60
2	Ag	213	ASP	CA-C-N	-5.52	113.53	122.30
2	Ag	213	ASP	C-N-CA	-5.52	113.53	122.30
14	AT	143	LYS	CA-CB-CG	-5.52	103.07	114.10
36	B2	292	A	C4'-C3'-O3'	-5.52	104.72	113.00
36	B2	1748	G	O4'-C1'-N9	5.52	116.78	108.50
69	Cg	95	PHE	CA-CB-CG	-5.52	108.28	113.80
85	A5	3949	A	C1'-O4'-C4'	-5.52	104.38	109.90
85	A5	4575	G	N9-C1'-C2'	5.52	120.28	112.00
68	Cf	71	TRP	CB-CG-CD2	-5.52	119.08	126.80
87	A8	125	C	O4'-C1'-C2'	-5.52	100.28	105.80
36	B2	1364	U	P-O3'-C3'	-5.51	111.93	120.20
85	A5	214	G	C1'-O4'-C4'	-5.51	104.39	109.90
48	CD	252	VAL	N-CA-C	5.51	115.71	110.53
85	A5	1371	A	N9-C1'-C2'	-5.51	103.73	112.00
85	A5	2735	G	P-O5'-C5'	-5.51	112.63	120.90
1	Az	741	MET	CA-CB-CG	5.51	125.12	114.10
17	AV	45	ARG	N-CA-C	5.51	119.00	111.39
36	B2	681	U	O4'-C1'-N1	5.51	116.77	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1747	C	C5'-C4'-C3'	5.51	124.27	116.00
59	CZ	18	TYR	N-CA-C	-5.51	106.59	113.15
70	Ci	4	ARG	CA-CB-CG	5.51	125.12	114.10
81	CE	132	PRO	N-CA-CB	5.51	108.66	102.60
85	A5	2513	A	C3'-C2'-C1'	5.51	107.01	101.50
85	A5	3598	C	O4'-C1'-C2'	-5.51	102.09	107.60
36	B2	692	G	O4'-C1'-N9	5.51	116.76	108.50
36	B2	1294	G	O4'-C1'-N9	5.51	116.77	108.50
74	CC	308	LYS	N-CA-CB	5.51	120.68	112.30
85	A5	235	A	O4'-C1'-C2'	-5.51	100.29	105.80
85	A5	269	G	P-O5'-C5'	5.51	129.16	120.90
85	A5	1493	G	C3'-C2'-C1'	-5.51	95.79	101.30
85	A5	2115	G	O3'-P-O5'	5.51	112.26	104.00
85	A5	2416	G	C1'-O4'-C4'	5.51	115.21	109.70
34	AQ	30	GLY	CA-C-N	-5.51	112.52	122.54
34	AQ	30	GLY	C-N-CA	-5.51	112.52	122.54
36	B2	1132	C	N1-C1'-C2'	5.51	120.26	112.00
85	A5	166	C	O4'-C1'-C2'	-5.51	102.09	107.60
85	A5	222	C	N1-C1'-C2'	5.51	120.26	112.00
4	AK	85	LEU	N-CA-C	5.51	117.83	109.41
7	AM	15	ASN	CA-CB-CG	-5.51	107.09	112.60
36	B2	871	U	C1'-C2'-O2'	5.51	120.06	111.80
38	Cz	110	PHE	CA-CB-CG	-5.51	108.29	113.80
70	Ci	22	SER	N-CA-C	5.51	118.55	109.85
71	Cj	88	ARG	N-CA-C	5.51	122.53	110.80
85	A5	2036	C	O4'-C1'-C2'	-5.51	102.09	107.60
85	A5	2332	A	C3'-C2'-C1'	-5.51	95.99	101.50
85	A5	2651	C	O4'-C1'-N1	5.51	116.76	108.50
85	A5	4528	G	C3'-C2'-C1'	5.51	106.81	101.30
85	A5	4995	U	C3'-C2'-C1'	5.51	106.81	101.30
60	Cr	94	ARG	N-CA-CB	5.50	118.31	110.16
85	A5	2064	G	O4'-C1'-N9	5.50	116.76	108.50
85	A5	2553	A	C4'-C3'-O3'	-5.50	104.74	113.00
14	AT	37	VAL	N-CA-C	5.50	116.69	109.21
23	AD	152	PHE	CA-CB-CG	-5.50	108.30	113.80
34	AQ	118	THR	N-CA-CB	-5.50	108.60	114.10
36	B2	189	U	N1-C1'-C2'	5.50	120.25	112.00
36	B2	468	A	P-O5'-C5'	-5.50	112.64	120.90
36	B2	1648	G	O3'-P-O5'	-5.50	95.74	104.00
60	Cr	112	ARG	O-C-N	5.50	127.95	122.12
85	A5	456	C	O4'-C1'-N1	5.50	116.76	108.50
85	A5	722	G	P-O3'-C3'	-5.50	111.94	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1441	C	C4'-C3'-C2'	-5.50	97.10	102.60
30	AF	53	ALA	N-CA-C	-5.50	105.28	111.28
36	B2	1653	U	P-O3'-C3'	5.50	128.45	120.20
85	A5	1576	G	N9-C1'-C2'	-5.50	105.75	114.00
85	A5	1690	C	O4'-C1'-C2'	-5.50	102.10	107.60
36	B2	800	U	N1-C1'-C2'	5.50	120.25	112.00
85	A5	644	G	O4'-C1'-N9	5.50	116.75	108.50
85	A5	676	C	C4'-C3'-C2'	-5.50	97.10	102.60
85	A5	1108	C	O4'-C1'-C2'	-5.50	102.10	107.60
1	Az	776	VAL	N-CA-C	5.50	120.78	109.34
36	B2	442	C	O4'-C1'-C2'	-5.50	102.10	107.60
58	CW	71	ARG	CG-CD-NE	5.50	124.10	112.00
85	A5	1604	G	N9-C1'-C2'	5.50	120.25	112.00
85	A5	2020	U	O4'-C1'-N1	5.50	116.75	108.50
85	A5	4159	C	O4'-C1'-C2'	-5.50	102.10	107.60
85	A5	4481	U	O4'-C1'-N1	5.50	116.75	108.50
86	A7	81	G	O4'-C1'-N9	5.50	116.75	108.50
36	B2	913	A	C1'-C2'-O2'	-5.50	103.56	111.80
85	A5	270	U	N1-C1'-C2'	5.50	120.25	112.00
85	A5	4364	G	C4'-C3'-O3'	-5.50	104.75	113.00
85	A5	4665	A	O5'-C5'-C4'	-5.50	103.26	111.50
85	A5	716	C	O4'-C1'-C2'	-5.50	102.11	107.60
85	A5	1358	G	C1'-O4'-C4'	-5.50	104.41	109.90
85	A5	4042	G	C1'-O4'-C4'	-5.50	104.41	109.90
28	AC	164	PRO	N-CA-CB	-5.49	98.42	103.31
36	B2	453	C	C3'-C2'-C1'	5.49	106.79	101.30
36	B2	1785	C	N1-C1'-C2'	-5.49	105.76	114.00
47	CI	4	ARG	N-CA-CB	-5.49	100.59	110.37
64	CF	35	LYS	CA-C-N	5.49	127.64	120.28
64	CF	35	LYS	C-N-CA	5.49	127.64	120.28
85	A5	328	A	N9-C1'-C2'	5.49	120.24	112.00
85	A5	1524	A	C1'-C2'-O2'	5.49	116.64	108.40
85	A5	1559	G	C1'-O4'-C4'	-5.49	104.41	109.90
1	Az	198	GLY	N-CA-C	5.49	123.54	112.34
36	B2	387	C	O4'-C1'-C2'	-5.49	102.11	107.60
85	A5	1591	U	O4'-C1'-N1	5.49	116.74	108.50
36	B2	1483	A	C4'-C3'-C2'	-5.49	97.11	102.60
85	A5	299	C	C1'-O4'-C4'	-5.49	104.41	109.90
85	A5	2568	C	O4'-C1'-C2'	-5.49	102.11	107.60
85	A5	2847	G	O4'-C1'-N9	5.49	116.73	108.50
85	A5	3703	G	C1'-O4'-C4'	-5.49	104.41	109.90
85	A5	4488	A	O4'-C4'-C3'	-5.49	100.61	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	5038	A	O4'-C1'-C2'	-5.49	102.11	107.60
4	AK	87	PRO	CA-C-O	-5.49	110.61	120.60
8	AS	81	ASP	CA-C-N	-5.49	111.82	120.60
8	AS	81	ASP	C-N-CA	-5.49	111.82	120.60
36	B2	10	G	P-O3'-C3'	-5.49	111.97	120.20
36	B2	1674	G	N9-C1'-C2'	5.49	120.23	112.00
40	CK	7	PRO	CA-C-N	5.49	132.02	121.54
40	CK	7	PRO	C-N-CA	5.49	132.02	121.54
49	CQ	39	THR	N-CA-C	5.49	117.03	109.29
53	CT	159	MET	N-CA-C	5.49	117.26	111.28
81	CE	96	VAL	N-CA-C	5.49	120.76	109.34
85	A5	503	C	O4'-C1'-C2'	-5.49	102.11	107.60
85	A5	1359	G	O4'-C1'-C2'	5.49	113.09	107.60
85	A5	1371	A	O4'-C1'-N9	-5.49	100.27	108.50
85	A5	2116	C	C2'-C3'-O3'	5.49	117.73	109.50
87	A8	116	C	O4'-C1'-C2'	-5.49	102.11	107.60
5	AO	79	GLN	N-CA-C	5.49	117.07	111.14
8	AS	94	LYS	O-C-N	5.49	129.66	122.97
85	A5	1233	G	O4'-C1'-N9	5.49	116.73	108.50
85	A5	1266	G	N9-C1'-C2'	5.49	122.23	114.00
85	A5	2333	G	O4'-C1'-N9	5.49	116.73	108.50
85	A5	2496	G	C1'-O4'-C4'	-5.49	104.41	109.90
85	A5	5042	A	O4'-C1'-C2'	-5.49	102.11	107.60
30	AF	56	TYR	CA-CB-CG	-5.49	104.02	113.90
36	B2	599	A	N9-C1'-C2'	5.49	120.23	112.00
37	BC	48	G	P-O5'-C5'	5.49	129.13	120.90
39	Cq	262	ALA	CA-C-N	5.49	132.02	121.54
39	Cq	262	ALA	C-N-CA	5.49	132.02	121.54
58	CW	77	LYS	N-CA-C	5.49	122.48	110.80
72	Ck	47	ILE	O-C-N	-5.49	116.20	122.62
81	CE	278	THR	CA-C-N	-5.49	111.06	121.54
81	CE	278	THR	C-N-CA	-5.49	111.06	121.54
85	A5	31	U	C4'-C3'-O3'	-5.49	104.77	113.00
85	A5	3729	U	O4'-C1'-C2'	-5.49	102.11	107.60
85	A5	4422	A	N9-C1'-C2'	5.49	120.23	112.00
85	A5	4699	U	P-O3'-C3'	5.49	128.43	120.20
36	B2	1738	C	O4'-C1'-C2'	-5.48	102.12	107.60
36	B2	1859	A	O3'-P-O5'	-5.48	95.77	104.00
85	A5	1578	U	O3'-P-O5'	-5.48	95.77	104.00
86	A7	68	C	O4'-C1'-C2'	-5.48	102.12	107.60
24	Ae	21	LYS	N-CA-C	5.48	119.07	112.38
30	AF	151	ILE	CA-C-N	-5.48	113.41	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	AF	151	ILE	C-N-CA	-5.48	113.41	120.65
36	B2	1490	G	O4'-C1'-C2'	5.48	113.08	107.60
85	A5	958	G	O4'-C1'-N9	-5.48	100.28	108.50
85	A5	4302	U	O4'-C1'-N1	5.48	116.72	108.50
7	AM	81	ASP	CA-C-N	5.48	127.62	120.28
7	AM	81	ASP	C-N-CA	5.48	127.62	120.28
12	AR	91	LEU	N-CA-CB	-5.48	101.23	110.49
27	AE	170	THR	O-C-N	5.48	131.19	122.81
36	B2	1025	U	O4'-C1'-N1	5.48	116.72	108.50
63	CB	7	SER	O-C-N	-5.48	115.40	122.20
85	A5	385	A	P-O3'-C3'	5.48	128.42	120.20
85	A5	4090	G	P-O5'-C5'	-5.48	112.68	120.90
36	B2	155	G	O5'-C5'-C4'	-5.48	103.28	111.50
36	B2	632	C	C3'-C2'-C1'	5.48	106.78	101.30
36	B2	1462	U	O3'-P-O5'	-5.48	95.78	104.00
36	B2	1560	U	O4'-C1'-N1	5.48	116.72	108.50
45	Ca	30	GLY	CA-C-N	5.48	132.15	121.41
45	Ca	30	GLY	C-N-CA	5.48	132.15	121.41
85	A5	68	U	O4'-C1'-N1	5.48	116.72	108.50
36	B2	602	G	O4'-C1'-N9	5.48	116.72	108.50
51	CA	112	ILE	N-CA-C	5.48	115.75	107.75
85	A5	1	C	O4'-C1'-C2'	-5.48	102.12	107.60
85	A5	207	G	C1'-O4'-C4'	-5.48	104.42	109.90
85	A5	666	G	O4'-C1'-C2'	-5.48	102.12	107.60
85	A5	1314	C	C4'-C3'-C2'	-5.48	97.12	102.60
85	A5	2270	G	O4'-C1'-C2'	5.48	113.08	107.60
85	A5	2740	U	C5'-C4'-O4'	5.48	117.32	109.10
85	A5	2829	U	O4'-C1'-C2'	-5.48	102.12	107.60
85	A5	4039	G	C3'-C2'-C1'	5.48	106.78	101.30
36	B2	163	U	C4'-C3'-O3'	-5.48	104.78	113.00
36	B2	1123	C	O4'-C1'-C2'	-5.48	102.12	107.60
85	A5	367	C	O4'-C1'-C2'	-5.48	102.12	107.60
1	Az	801	ARG	CB-CG-CD	5.47	123.89	111.30
50	CR	61	ALA	N-CA-C	5.47	117.68	111.11
85	A5	1468	C	C3'-C2'-C1'	5.47	106.78	101.30
85	A5	4492	U	C1'-O4'-C4'	5.47	115.38	109.90
85	A5	5001	U	N1-C1'-C2'	5.47	120.21	112.00
36	B2	1608	U	O4'-C1'-C2'	-5.47	102.13	107.60
36	B2	1620	A	O4'-C1'-N9	5.47	116.41	108.20
36	B2	1650	A	P-O5'-C5'	-5.47	112.69	120.90
38	Cz	94	ASN	CA-CB-CG	-5.47	107.13	112.60
85	A5	3977	C	O4'-C1'-C2'	-5.47	102.13	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	A8	57	C	C1'-C2'-O2'	5.47	116.61	108.40
31	AH	56	GLY	N-CA-C	5.47	126.15	113.18
85	A5	3632	C	N1-C1'-C2'	5.47	120.21	112.00
1	Az	202	ASN	CA-C-N	5.47	129.72	120.64
1	Az	202	ASN	C-N-CA	5.47	129.72	120.64
31	AH	36	LEU	N-CA-C	-5.47	106.39	112.57
63	CB	112	ASP	O-C-N	-5.47	115.32	122.59
80	CH	52	LYS	N-CA-C	5.47	116.59	108.60
85	A5	2423	A	N9-C1'-C2'	5.47	120.20	112.00
85	A5	3944	G	C4'-C3'-C2'	-5.47	97.13	102.60
85	A5	4986	G	O4'-C1'-C2'	-5.47	102.13	107.60
36	B2	1629	C	O4'-C4'-C3'	-5.47	98.53	104.00
85	A5	215	C	O4'-C1'-C2'	-5.47	102.13	107.60
85	A5	1088	C	O4'-C1'-C2'	-5.47	102.13	107.60
85	A5	2625	U	O4'-C1'-N1	5.47	116.70	108.50
36	B2	866	U	O4'-C1'-N1	5.47	116.70	108.50
36	B2	1657	G	C1'-O4'-C4'	-5.47	104.43	109.90
85	A5	13	U	C1'-O4'-C4'	5.47	115.17	109.70
85	A5	1833	G	O4'-C1'-N9	5.47	116.70	108.50
85	A5	3645	U	C3'-C2'-C1'	5.47	106.77	101.30
85	A5	4325	A	O3'-P-O5'	5.47	112.20	104.00
36	B2	57	U	O4'-C1'-N1	5.46	116.70	108.50
36	B2	163	U	O3'-P-O5'	-5.46	95.80	104.00
36	B2	328	U	C5'-C4'-C3'	5.46	124.20	116.00
36	B2	420	G	O4'-C1'-C2'	5.46	113.06	107.60
39	Cq	18	ILE	N-CA-CB	5.46	117.30	110.47
68	Cf	106	TYR	CB-CA-C	-5.46	101.31	109.56
85	A5	1093	C	O4'-C1'-N1	5.46	116.70	108.50
85	A5	1285	U	P-O5'-C5'	5.46	129.10	120.90
85	A5	1489	G	C5'-C4'-C3'	5.46	124.20	116.00
74	CC	87	SER	N-CA-C	5.46	119.29	107.49
1	Az	855	LEU	CA-C-O	-5.46	115.43	121.33
36	B2	532	C	C4'-C3'-C2'	-5.46	97.14	102.60
36	B2	904	A	C1'-O4'-C4'	-5.46	104.44	109.90
36	B2	1403	C	O4'-C1'-C2'	5.46	111.26	105.80
85	A5	75	G	O4'-C1'-C2'	-5.46	100.34	105.80
85	A5	2614	C	N1-C1'-C2'	5.46	120.19	112.00
85	A5	4734	A	P-O3'-C3'	5.46	128.39	120.20
85	A5	1430	C	O4'-C1'-C2'	-5.46	102.14	107.60
85	A5	4910	G	P-O3'-C3'	-5.46	112.01	120.20
86	A7	40	U	O3'-P-O5'	5.46	112.19	104.00
34	AQ	66	VAL	N-CA-C	5.46	116.53	108.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	458	A	O4'-C1'-C2'	-5.46	102.14	107.60
36	B2	559	G	O3'-P-O5'	-5.46	95.81	104.00
44	CM	91	TRP	CB-CG-CD1	5.46	135.09	126.90
81	CE	37	PRO	N-CD-CG	5.46	110.35	103.80
85	A5	363	A	P-O3'-C3'	5.46	128.39	120.20
85	A5	951	G	P-O5'-C5'	5.46	129.09	120.90
85	A5	2341	A	N9-C1'-C2'	5.46	120.19	112.00
85	A5	3835	C	N1-C1'-C2'	5.46	120.19	112.00
87	A8	154	G	C4'-C3'-O3'	-5.46	104.81	113.00
29	AG	131	ARG	CG-CD-NE	5.46	124.00	112.00
36	B2	213	G	N9-C1'-C2'	-5.46	103.81	112.00
36	B2	1379	A	C5'-C4'-C3'	-5.46	107.81	116.00
36	B2	1541	G	O4'-C1'-N9	5.46	116.68	108.50
85	A5	1628	C	C1'-O4'-C4'	-5.46	104.44	109.90
85	A5	1705	G	O5'-C5'-C4'	5.46	118.98	110.80
85	A5	1851	G	O4'-C1'-C2'	5.46	113.06	107.60
85	A5	2028	C	O4'-C1'-C2'	-5.46	102.14	107.60
85	A5	2865	U	O4'-C1'-C2'	-5.46	102.14	107.60
85	A5	3892	U	O5'-C5'-C4'	5.46	119.69	111.50
85	A5	4689	U	O4'-C1'-N1	5.46	116.68	108.50
86	A7	106	G	C3'-C2'-C1'	-5.46	95.84	101.30
87	A8	7	U	O4'-C1'-C2'	-5.46	102.14	107.60
36	B2	1128	C	O4'-C1'-C2'	-5.46	102.14	107.60
81	CE	277	LEU	N-CA-CB	5.46	119.33	110.17
85	A5	4458	C	O4'-C1'-C2'	-5.46	102.14	107.60
85	A5	4553	A	N9-C1'-C2'	5.46	120.18	112.00
86	A7	119	U	C4'-C3'-O3'	-5.46	104.82	113.00
28	AC	61	MET	N-CA-C	-5.45	99.94	109.48
36	B2	1333	U	O4'-C1'-C2'	-5.45	102.15	107.60
85	A5	184	U	C1'-O4'-C4'	5.45	115.35	109.90
85	A5	1401	C	C4'-C3'-C2'	-5.45	97.15	102.60
85	A5	2723	U	O4'-C1'-C2'	-5.45	102.15	107.60
85	A5	4145	C	C4'-C3'-C2'	-5.45	97.15	102.60
85	A5	4233	A	C1'-C2'-O2'	5.45	119.98	111.80
85	A5	4565	C	C3'-C2'-C1'	5.45	106.75	101.30
86	A7	101	A	N9-C1'-C2'	5.45	120.18	112.00
68	Cf	64	PRO	N-CA-CB	5.45	108.97	103.25
85	A5	1505	C	C4'-C3'-O3'	-5.45	104.82	113.00
85	A5	1857	C	O4'-C1'-C2'	-5.45	102.15	107.60
85	A5	4948	C	P-O5'-C5'	5.45	129.08	120.90
28	AC	272	HIS	N-CA-C	-5.45	105.34	111.28
33	AI	134	GLU	CA-C-O	-5.45	115.10	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1672	U	N1-C1'-C2'	5.45	120.18	112.00
36	B2	1869	A	O4'-C1'-C2'	-5.45	102.15	107.60
85	A5	86	U	C1'-C2'-O2'	5.45	116.58	108.40
85	A5	1079	C	P-O3'-C3'	5.45	128.38	120.20
85	A5	1468	C	N1-C1'-C2'	5.45	120.18	112.00
85	A5	1483	C	O3'-P-O5'	-5.45	95.82	104.00
85	A5	1758	G	N9-C1'-C2'	5.45	120.18	112.00
85	A5	2480	G	O4'-C1'-N9	5.45	116.68	108.50
85	A5	2579	G	O4'-C1'-N9	5.45	116.67	108.50
85	A5	4587	G	P-O5'-C5'	-5.45	112.73	120.90
85	A5	4668	U	P-O3'-C3'	-5.45	112.03	120.20
35	Ah	177	ARG	N-CA-C	-5.45	102.82	110.50
39	Cq	233	THR	CB-CA-C	-5.45	110.31	116.63
85	A5	421	C	C3'-C2'-C1'	5.45	106.75	101.30
85	A5	1311	G	C5'-C4'-C3'	-5.45	107.83	116.00
85	A5	4451	G	O4'-C1'-C2'	-5.45	102.15	107.60
87	A8	89	U	N1-C1'-C2'	5.45	120.17	112.00
85	A5	1846	G	O4'-C1'-C2'	-5.45	102.15	107.60
36	B2	72	C	P-O5'-C5'	5.45	129.07	120.90
36	B2	1330	G	C1'-O4'-C4'	-5.45	104.25	109.70
36	B2	1785	C	C1'-O4'-C4'	5.45	115.15	109.70
39	Cq	32	ALA	CA-C-N	5.45	131.94	121.54
39	Cq	32	ALA	C-N-CA	5.45	131.94	121.54
46	CN	187	SER	N-CA-C	-5.45	105.74	112.38
71	Cj	85	LYS	C-N-CD	-5.45	102.68	125.00
85	A5	2569	G	N9-C1'-C2'	5.45	120.17	112.00
85	A5	3899	G	N9-C1'-C2'	5.45	120.17	112.00
85	A5	4088	C	P-O5'-C5'	-5.45	112.73	120.90
87	A8	38	U	C1'-O4'-C4'	5.45	115.15	109.70
87	A8	114	G	N9-C1'-C2'	5.45	120.17	112.00
86	A7	4	U	C1'-O4'-C4'	-5.44	104.46	109.90
36	B2	473	A	O4'-C1'-C2'	-5.44	102.16	107.60
36	B2	621	C	C3'-C2'-C1'	5.44	106.74	101.30
36	B2	1319	U	O4'-C1'-C2'	-5.44	102.16	107.60
85	A5	2078	C	C3'-C2'-C1'	5.44	106.74	101.30
85	A5	4068	U	C1'-C2'-O2'	5.44	116.56	108.40
85	A5	4331	G	N9-C1'-C2'	-5.44	105.83	114.00
16	AA	195	TRP	N-CA-C	5.44	118.27	109.40
36	B2	667	U	N1-C1'-C2'	5.44	120.16	112.00
85	A5	1096	C	O4'-C1'-C2'	-5.44	102.16	107.60
85	A5	2801	U	O4'-C1'-C2'	-5.44	102.16	107.60
86	A7	104	C	O4'-C1'-C2'	-5.44	102.16	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	41	G	C1'-O4'-C4'	-5.44	104.26	109.70
63	CB	260	ALA	CA-C-N	5.44	131.93	121.54
63	CB	260	ALA	C-N-CA	5.44	131.93	121.54
74	CC	217	ILE	N-CA-CB	5.44	117.94	110.54
85	A5	1324	A	P-O3'-C3'	5.44	128.36	120.20
85	A5	1764	G	O4'-C1'-C2'	5.44	113.04	107.60
85	A5	1958	A	C4'-C3'-C2'	-5.44	97.16	102.60
85	A5	2091	C	C4'-C3'-C2'	-5.44	97.16	102.60
85	A5	2254	G	N9-C1'-C2'	5.44	120.16	112.00
85	A5	2707	U	O4'-C1'-C2'	-5.44	102.16	107.60
85	A5	2499	C	O4'-C1'-N1	5.44	116.65	108.50
36	B2	970	G	O3'-P-O5'	-5.43	95.85	104.00
36	B2	1395	C	O4'-C1'-C2'	-5.43	102.17	107.60
36	B2	1704	C	N1-C1'-C2'	5.43	120.15	112.00
50	CR	157	ASP	N-CA-C	5.43	117.01	111.14
85	A5	649	A	C4'-C3'-C2'	-5.43	97.17	102.60
85	A5	2056	G	N9-C1'-C2'	5.43	122.15	114.00
85	A5	2574	G	O4'-C1'-N9	5.43	116.65	108.50
85	A5	4457	U	C1'-C2'-O2'	5.43	116.55	108.40
85	A5	4962	C	P-O5'-C5'	5.43	129.05	120.90
36	B2	154	U	O4'-C1'-N1	5.43	116.65	108.50
36	B2	1518	C	P-O3'-C3'	-5.43	112.05	120.20
44	CM	3	PHE	CA-C-O	5.43	128.28	120.51
85	A5	155	C	O4'-C1'-C2'	-5.43	102.17	107.60
85	A5	228	C	N1-C1'-C2'	-5.43	103.85	112.00
85	A5	273	U	O4'-C1'-C2'	-5.43	102.17	107.60
85	A5	3252	A	C4'-C3'-O3'	5.43	118.15	110.00
87	A8	100	U	C1'-O4'-C4'	-5.43	104.47	109.90
4	AK	35	LEU	CA-CB-CG	-5.43	97.29	116.30
28	AC	267	GLN	N-CA-C	5.43	117.28	111.36
36	B2	1719	A	O4'-C1'-C2'	-5.43	102.17	107.60
36	B2	187	G	N9-C1'-C2'	5.43	120.14	112.00
36	B2	903	A	C3'-C2'-C1'	-5.43	95.87	101.30
36	B2	1303	C	C1'-C2'-O2'	5.43	116.54	108.40
85	A5	2242	C	C5'-C4'-C3'	5.43	124.14	116.00
85	A5	2485	U	O4'-C1'-C2'	-5.43	102.17	107.60
85	A5	2618	G	C3'-C2'-C1'	-5.43	95.87	101.30
85	A5	2822	G	C5'-C4'-C3'	5.43	124.14	116.00
36	B2	146	G	O4'-C1'-C2'	-5.43	100.37	105.80
36	B2	223	C	N1-C1'-C2'	5.43	120.14	112.00
36	B2	1575	G	O4'-C1'-N9	5.43	116.64	108.50
85	A5	1280	C	N1-C1'-C2'	5.43	122.14	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	AH	7	LYS	CA-C-N	-5.43	112.20	121.97
31	AH	7	LYS	C-N-CA	-5.43	112.20	121.97
36	B2	25	A	O4'-C4'-C3'	-5.43	100.67	106.10
36	B2	574	A	O4'-C1'-C2'	-5.43	102.17	107.60
36	B2	1365	G	O3'-P-O5'	-5.43	95.86	104.00
36	B2	1417	C	O3'-P-O5'	5.43	112.14	104.00
46	CN	139	HIS	CB-CA-C	-5.43	101.86	110.81
82	CG	178	GLY	CA-C-N	-5.43	118.05	123.04
82	CG	178	GLY	C-N-CA	-5.43	118.05	123.04
85	A5	1579	C	N1-C1'-C2'	5.43	120.14	112.00
85	A5	1913	C	N1-C1'-C2'	5.43	120.14	112.00
85	A5	2027	U	O4'-C1'-N1	5.43	116.64	108.50
85	A5	2689	C	N1-C1'-C2'	5.43	120.14	112.00
85	A5	4162	C	O4'-C1'-C2'	5.43	113.03	107.60
85	A5	4470	G	N9-C1'-C2'	5.43	120.14	112.00
85	A5	4759	C	P-O5'-C5'	-5.43	112.76	120.90
25	Af	138	ARG	CA-C-N	5.42	129.95	121.76
25	Af	138	ARG	C-N-CA	5.42	129.95	121.76
36	B2	276	G	P-O3'-C3'	5.42	128.34	120.20
36	B2	798	G	N9-C1'-C2'	5.42	122.14	114.00
36	B2	910	G	C1'-O4'-C4'	-5.42	104.48	109.90
85	A5	2295	C	O4'-C1'-C2'	-5.42	102.17	107.60
85	A5	2313	A	C1'-O4'-C4'	5.42	115.32	109.90
85	A5	2638	G	O4'-C1'-N9	5.42	116.64	108.50
80	CH	174	LYS	N-CA-C	5.42	117.00	111.14
85	A5	912	G	C1'-O4'-C4'	-5.42	104.48	109.90
85	A5	2131	C	N1-C1'-C2'	5.42	120.14	112.00
1	Az	702	PHE	CA-CB-CG	-5.42	108.38	113.80
15	AB	37	ALA	O-C-N	-5.42	115.60	122.27
36	B2	31	U	C1'-O4'-C4'	5.42	115.32	109.90
36	B2	635	G	N9-C1'-C2'	5.42	120.13	112.00
46	CN	15	GLN	O-C-N	5.42	129.46	122.20
85	A5	1068	G	O4'-C1'-N9	5.42	116.63	108.50
85	A5	2302	C	O4'-C1'-C2'	-5.42	102.18	107.60
85	A5	2437	C	N1-C1'-C2'	5.42	122.13	114.00
85	A5	4899	G	C2'-C3'-O3'	5.42	121.83	113.70
86	A7	25	G	C4'-C3'-O3'	-5.42	104.87	113.00
1	Az	66	ARG	CA-C-O	-5.42	114.81	120.55
36	B2	308	G	P-O3'-C3'	5.42	128.33	120.20
81	CE	57	TYR	CA-CB-CG	5.42	123.66	113.90
85	A5	519	C	O4'-C1'-N1	5.42	116.63	108.50
85	A5	965	G	C5'-C4'-O4'	5.42	117.23	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	382	C	P-O3'-C3'	-5.42	112.07	120.20
85	A5	1699	A	O4'-C1'-C2'	5.42	111.22	105.80
85	A5	4945	G	O4'-C4'-C3'	-5.42	98.58	104.00
87	A8	94	G	P-O3'-C3'	5.42	128.33	120.20
6	AX	124	LYS	CA-C-N	5.42	130.38	122.69
6	AX	124	LYS	C-N-CA	5.42	130.38	122.69
26	AJ	144	ILE	O-C-N	5.42	127.28	121.10
38	Cz	140	HIS	CA-C-N	-5.42	114.45	123.33
38	Cz	140	HIS	C-N-CA	-5.42	114.45	123.33
85	A5	4452	U	O4'-C1'-N1	5.42	116.32	108.20
85	A5	1228	U	P-O3'-C3'	5.42	128.32	120.20
85	A5	1306	C	O4'-C1'-N1	5.42	116.62	108.50
85	A5	2571	C	C1'-O4'-C4'	-5.42	104.48	109.90
7	AM	12	MET	CA-C-N	5.41	130.98	122.21
7	AM	12	MET	C-N-CA	5.41	130.98	122.21
33	AI	82	VAL	N-CA-C	5.41	117.32	111.58
36	B2	1378	A	O4'-C1'-C2'	-5.41	100.39	105.80
61	Ch	4	ILE	CB-CA-C	-5.41	102.41	111.29
73	Cl	35	ILE	N-CA-C	5.41	116.24	108.93
74	CC	266	THR	CB-CA-C	-5.41	101.23	112.44
85	A5	1613	A	O4'-C1'-C2'	-5.41	100.39	105.80
85	A5	1656	U	C1'-O4'-C4'	-5.41	104.49	109.90
85	A5	2110	C	C5'-C4'-O4'	5.41	117.22	109.10
85	A5	2456	G	C4'-C3'-O3'	-5.41	104.88	113.00
85	A5	4521	U	O4'-C1'-C2'	-5.41	102.19	107.60
85	A5	4669	A	C5'-C4'-C3'	-5.41	107.88	116.00
85	A5	4977	A	C4'-C3'-C2'	-5.41	97.19	102.60
8	AS	88	LYS	N-CA-C	-5.41	104.25	111.02
36	B2	1737	G	N9-C1'-C2'	5.41	120.12	112.00
3	AU	93	SER	C-N-CD	5.41	147.18	125.00
36	B2	1008	A	O3'-P-O5'	-5.41	95.88	104.00
36	B2	1226	G	C1'-O4'-C4'	-5.41	104.49	109.90
36	B2	1309	C	N1-C1'-C2'	5.41	120.12	112.00
85	A5	1267	C	P-O5'-C5'	5.41	129.01	120.90
85	A5	1293	G	C1'-O4'-C4'	-5.41	104.49	109.90
85	A5	1587	G	O4'-C1'-C2'	-5.41	100.39	105.80
85	A5	1971	C	O4'-C1'-N1	5.41	116.61	108.50
87	A8	146	U	C4'-C3'-C2'	-5.41	97.19	102.60
10	AN	18	TYR	O-C-N	5.41	127.66	122.03
36	B2	672	A	O4'-C1'-N9	5.41	116.31	108.20
36	B2	682	U	O5'-C5'-C4'	-5.41	103.39	111.50
36	B2	1075	C	C1'-O4'-C4'	-5.41	104.49	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1779	G	N9-C1'-C2'	-5.41	103.89	112.00
38	Cz	60	ARG	CA-C-N	-5.41	115.01	120.85
38	Cz	60	ARG	C-N-CA	-5.41	115.01	120.85
60	Cr	38	PHE	CA-C-O	-5.41	115.33	120.90
85	A5	116	G	O4'-C4'-C3'	-5.41	100.69	106.10
85	A5	1454	G	O4'-C1'-C2'	-5.41	102.19	107.60
85	A5	2011	C	O4'-C1'-C2'	-5.41	102.19	107.60
85	A5	4164	C	N1-C1'-C2'	5.41	120.11	112.00
85	A5	4965	U	O4'-C1'-N1	5.41	116.31	108.20
36	B2	455	A	O4'-C1'-C2'	-5.41	102.19	107.60
85	A5	1314	C	O4'-C1'-N1	5.41	116.31	108.20
85	A5	1534	A	O4'-C1'-C2'	-5.41	100.39	105.80
85	A5	2783	A	C3'-C2'-C1'	5.41	106.71	101.30
85	A5	4237	C	O4'-C1'-C2'	-5.41	102.19	107.60
36	B2	1291	A	P-O3'-C3'	5.41	128.31	120.20
85	A5	4873	G	O4'-C1'-N9	5.41	116.31	108.20
30	AF	35	LEU	O-C-N	5.40	129.41	122.39
35	Ah	142	LEU	CA-C-O	-5.40	114.75	121.50
39	Cq	61	MET	CA-C-N	5.40	130.72	122.29
39	Cq	61	MET	C-N-CA	5.40	130.72	122.29
64	CF	39	GLN	N-CA-CB	5.40	118.16	110.16
85	A5	171	U	O3'-P-O5'	-5.40	95.89	104.00
36	B2	1589	A	O4'-C1'-N9	5.40	116.60	108.50
37	BC	45	G	C1'-C2'-O2'	-5.40	103.70	111.80
56	CX	40	ILE	CG1-CB-CG2	-5.40	94.49	110.70
85	A5	1957	U	O4'-C1'-N1	5.40	116.61	108.50
85	A5	4059	C	P-O5'-C5'	5.40	129.00	120.90
85	A5	4321	U	C3'-C2'-C1'	5.40	106.70	101.30
85	A5	4683	U	O4'-C1'-N1	5.40	116.60	108.50
87	A8	68	G	C1'-O4'-C4'	-5.40	104.50	109.90
36	B2	281	C	P-O5'-C5'	-5.40	112.80	120.90
36	B2	881	G	C1'-O4'-C4'	-5.40	104.50	109.90
36	B2	900	C	P-O5'-C5'	5.40	129.00	120.90
36	B2	1419	C	C3'-C2'-C1'	5.40	106.70	101.30
52	CS	150	ILE	O-C-N	-5.40	115.82	122.57
85	A5	2875	C	C1'-C2'-O2'	-5.40	103.70	111.80
36	B2	1738	C	N1-C1'-C2'	5.40	120.10	112.00
85	A5	1275	G	P-O3'-C3'	5.40	128.30	120.20
85	A5	4069	U	C5'-C4'-C3'	5.40	124.10	116.00
1	Az	249	ARG	N-CA-CB	5.40	118.05	110.12
1	Az	357	HIS	CA-C-N	-5.40	112.83	120.49
1	Az	357	HIS	C-N-CA	-5.40	112.83	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	558	G	C1'-O4'-C4'	-5.40	104.50	109.90
36	B2	1672	U	C1'-C2'-O2'	5.40	116.50	108.40
63	CB	171	LEU	CA-C-N	5.40	125.07	119.56
63	CB	171	LEU	C-N-CA	5.40	125.07	119.56
85	A5	1162	G	C1'-O4'-C4'	-5.40	104.50	109.90
85	A5	1538	U	O3'-P-O5'	-5.40	95.90	104.00
85	A5	2505	C	C5'-C4'-O4'	5.40	117.20	109.10
4	AK	7	ASN	CA-CB-CG	-5.40	107.20	112.60
36	B2	1340	U	O4'-C1'-C2'	-5.40	102.20	107.60
37	BC	50	U	O4'-C1'-C2'	-5.40	102.20	107.60
85	A5	1271	G	C3'-C2'-C1'	-5.40	95.90	101.30
85	A5	4320	G	C1'-O4'-C4'	-5.40	104.50	109.90
2	Ag	83	TRP	N-CA-C	-5.39	105.40	111.28
18	AY	101	LYS	CA-C-N	-5.39	111.24	121.54
18	AY	101	LYS	C-N-CA	-5.39	111.24	121.54
21	Ab	28	PRO	CA-C-N	5.39	132.36	122.54
21	Ab	28	PRO	C-N-CA	5.39	132.36	122.54
30	AF	56	TYR	CA-C-N	5.39	127.51	120.28
30	AF	56	TYR	C-N-CA	5.39	127.51	120.28
36	B2	38	A	C5'-C4'-C3'	-5.39	107.11	115.20
36	B2	886	A	C3'-C2'-C1'	5.39	106.69	101.30
36	B2	1043	G	C3'-C2'-C1'	5.39	106.69	101.30
36	B2	1595	U	N1-C1'-C2'	-5.39	103.91	112.00
42	CL	155	MET	CA-C-N	5.39	124.73	118.85
42	CL	155	MET	C-N-CA	5.39	124.73	118.85
59	CZ	4	PHE	N-CA-C	5.39	119.41	113.21
85	A5	1442	C	C5'-C4'-O4'	-5.39	101.71	109.80
85	A5	1459	A	C4'-C3'-O3'	-5.39	104.91	113.00
85	A5	1948	G	N9-C1'-C2'	5.39	120.09	112.00
85	A5	4487	A	C3'-C2'-C1'	5.39	106.69	101.30
85	A5	4671	C	C1'-C2'-O2'	-5.39	103.71	111.80
85	A5	4908	G	C1'-O4'-C4'	-5.39	104.51	109.90
36	B2	1227	G	N9-C1'-C2'	5.39	120.09	112.00
36	B2	1299	A	O4'-C1'-N9	5.39	116.59	108.50
36	B2	1333	U	O4'-C1'-N1	5.39	116.59	108.50
80	CH	178	GLY	N-CA-C	5.39	118.86	110.88
85	A5	4041	C	O4'-C4'-C3'	-5.39	98.61	104.00
85	A5	4866	C	C1'-O4'-C4'	-5.39	104.51	109.90
87	A8	126	C	C2'-C3'-O3'	5.39	117.59	109.50
1	Az	497	MET	N-CA-C	5.39	117.65	110.53
85	A5	1482	G	P-O3'-C3'	5.39	128.29	120.20
85	A5	1926	C	P-O3'-C3'	-5.39	112.11	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2717	G	O4'-C1'-N9	5.39	116.59	108.50
85	A5	2879	A	C3'-C2'-C1'	5.39	106.89	101.50
20	Aa	80	HIS	N-CA-C	-5.39	105.30	111.07
36	B2	147	A	C2'-C3'-O3'	5.39	117.58	109.50
36	B2	350	C	C3'-C2'-C1'	5.39	106.69	101.30
81	CE	275	PHE	CA-CB-CG	-5.39	108.41	113.80
85	A5	174	C	C3'-C2'-C1'	5.39	106.69	101.30
85	A5	2899	C	O4'-C1'-C2'	-5.39	102.21	107.60
85	A5	3879	G	O4'-C1'-N9	5.39	116.28	108.20
85	A5	4151	G	O4'-C1'-N9	5.39	116.58	108.50
86	A7	39	C	C2'-C3'-O3'	5.39	121.78	113.70
1	Az	681	ALA	CA-C-N	5.39	125.93	120.00
1	Az	681	ALA	C-N-CA	5.39	125.93	120.00
36	B2	212	C	O4'-C1'-C2'	-5.39	102.21	107.60
50	CR	130	ASN	O-C-N	5.39	128.12	121.33
81	CE	217	PHE	CA-CB-CG	-5.39	108.41	113.80
87	A8	26	C	O4'-C1'-C2'	-5.39	102.21	107.60
1	Az	110	ASP	N-CA-C	5.39	120.00	113.38
1	Az	850	ALA	N-CA-C	-5.39	100.64	109.80
31	AH	13	GLY	O-C-N	-5.39	115.55	122.39
36	B2	332	G	O4'-C1'-N9	5.39	116.58	108.50
36	B2	988	C	C3'-C2'-C1'	5.39	106.69	101.30
63	CB	291	TYR	O-C-N	-5.39	115.07	122.23
85	A5	448	G	C1'-O4'-C4'	-5.39	104.51	109.90
85	A5	1216	C	O4'-C1'-C2'	-5.39	102.21	107.60
85	A5	1960	A	C1'-O4'-C4'	5.39	115.09	109.70
85	A5	2002	A	O4'-C1'-N9	5.39	116.28	108.20
85	A5	703	G	C2'-C3'-O3'	5.38	117.58	109.50
85	A5	705	G	P-O5'-C5'	5.38	128.98	120.90
85	A5	986	C	O4'-C1'-C2'	-5.38	102.22	107.60
85	A5	1279	A	N9-C1'-C2'	5.38	120.08	112.00
85	A5	2396	A	C4'-C3'-O3'	5.38	117.48	109.40
85	A5	4459	U	C1'-O4'-C4'	-5.38	104.52	109.90
85	A5	5062	G	C4'-C3'-O3'	-5.38	104.92	113.00
85	A5	1971	C	O4'-C1'-C2'	-5.38	102.22	107.60
85	A5	2612	G	O4'-C1'-N9	5.38	116.58	108.50
85	A5	2654	C	O4'-C1'-C2'	-5.38	102.22	107.60
16	AA	189	ILE	N-CA-C	-5.38	106.56	111.67
36	B2	651	U	O4'-C1'-C2'	-5.38	102.22	107.60
36	B2	1292	C	C4'-C3'-O3'	-5.38	104.93	113.00
36	B2	1783	C	C3'-C2'-C1'	5.38	106.88	101.50
53	CT	91	VAL	N-CA-C	5.38	116.66	108.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
81	CE	32	LEU	CB-CG-CD2	5.38	126.84	110.70
85	A5	375	G	O4'-C1'-C2'	-5.38	102.22	107.60
85	A5	978	G	C4'-C3'-C2'	-5.38	97.22	102.60
85	A5	2657	G	C4'-C3'-O3'	-5.38	104.93	113.00
85	A5	4730	C	O4'-C1'-N1	5.38	116.27	108.20
85	A5	5003	U	O4'-C1'-N1	5.38	116.57	108.50
42	CL	22	VAL	N-CA-C	5.38	116.53	109.21
71	Cj	87	LYS	O-C-N	5.38	129.75	122.59
85	A5	4406	U	O4'-C1'-N1	5.38	116.57	108.50
85	A5	4412	C	P-O3'-C3'	-5.38	112.13	120.20
19	AZ	104	ARG	NE-CZ-NH1	-5.38	116.12	121.50
36	B2	688	U	C4'-C3'-O3'	5.38	117.47	109.40
36	B2	1114	U	O4'-C1'-C2'	-5.38	100.42	105.80
36	B2	1461	G	O4'-C1'-C2'	-5.38	102.22	107.60
58	CW	84	GLY	N-CA-C	-5.38	107.82	115.30
64	CF	105	VAL	CB-CA-C	-5.38	105.03	112.24
71	Cj	87	LYS	CA-C-N	5.38	131.81	121.54
71	Cj	87	LYS	C-N-CA	5.38	131.81	121.54
85	A5	15	A	O4'-C1'-N9	5.38	116.57	108.50
85	A5	2046	G	P-O5'-C5'	-5.38	112.83	120.90
85	A5	2638	G	C1'-O4'-C4'	5.38	115.28	109.90
85	A5	2774	C	O4'-C1'-C2'	-5.38	102.22	107.60
85	A5	3690	U	O4'-C1'-C2'	-5.38	102.22	107.60
85	A5	3844	U	C4'-C3'-O3'	-5.38	104.93	113.00
85	A5	4757	C	O4'-C1'-N1	5.38	116.57	108.50
36	B2	600	G	O4'-C1'-N9	5.38	116.56	108.50
36	B2	622	C	C1'-O4'-C4'	-5.38	104.52	109.90
36	B2	834	C	P-O3'-C3'	5.38	128.26	120.20
85	A5	1902	G	N9-C1'-C2'	5.38	120.07	112.00
85	A5	2531	C	C1'-O4'-C4'	5.38	115.08	109.70
85	A5	4718	G	C3'-C2'-C1'	5.38	106.88	101.50
85	A5	2556	G	O4'-C1'-N9	5.38	116.56	108.50
85	A5	2908	U	O4'-C1'-N1	5.38	116.56	108.50
1	Az	109	VAL	CB-CA-C	-5.37	102.48	111.29
31	AH	55	GLY	N-CA-C	-5.37	107.11	113.99
36	B2	1483	A	O4'-C1'-N9	5.37	116.56	108.50
63	CB	10	ARG	CA-C-N	-5.37	113.93	121.72
63	CB	10	ARG	C-N-CA	-5.37	113.93	121.72
85	A5	982	U	N1-C1'-C2'	-5.37	103.94	112.00
85	A5	1818	G	O5'-C5'-C4'	-5.37	103.44	111.50
85	A5	4054	C	C3'-C2'-C1'	5.37	106.67	101.30
85	A5	4588	U	O4'-C1'-C2'	-5.37	102.23	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4793	G	O3'-P-O5'	5.37	112.06	104.00
3	AU	72	GLU	N-CA-C	-5.37	102.34	110.24
11	AL	146	THR	O-C-N	-5.37	116.03	122.15
31	AH	36	LEU	N-CA-CB	5.37	119.40	110.91
36	B2	386	C	C5'-C4'-C3'	-5.37	107.94	116.00
53	CT	24	VAL	O-C-N	5.37	128.35	122.76
85	A5	1449	C	O3'-P-O5'	-5.37	95.94	104.00
85	A5	4160	C	C3'-C2'-C1'	5.37	106.67	101.30
85	A5	4889	G	C2'-C3'-O3'	5.37	117.56	109.50
36	B2	524	U	N1-C1'-C2'	5.37	120.06	112.00
36	B2	1343	U	C3'-C2'-C1'	5.37	106.67	101.30
36	B2	1350	U	O4'-C1'-N1	5.37	116.55	108.50
85	A5	3703	G	C1'-C2'-O2'	5.37	116.45	108.40
85	A5	4301	U	O4'-C1'-C2'	-5.37	102.23	107.60
37	BC	26	C	O4'-C1'-C2'	-5.37	102.23	107.60
85	A5	236	G	O4'-C1'-C2'	5.37	112.97	107.60
85	A5	727	C	N1-C1'-C2'	-5.37	103.95	112.00
85	A5	1425	G	O4'-C1'-C2'	-5.37	102.23	107.60
85	A5	1478	C	C1'-O4'-C4'	-5.37	104.53	109.90
85	A5	2658	G	O4'-C4'-C3'	-5.37	100.73	106.10
85	A5	4338	G	P-O5'-C5'	-5.37	112.85	120.90
21	Ab	63	LEU	CA-C-N	5.37	131.79	121.54
21	Ab	63	LEU	C-N-CA	5.37	131.79	121.54
70	Ci	72	PHE	N-CA-C	5.37	117.21	111.36
82	CG	45	ILE	CB-CA-C	5.37	120.09	111.29
86	A7	115	A	P-O3'-C3'	-5.37	112.15	120.20
16	AA	94	THR	N-CA-C	-5.37	103.61	110.53
85	A5	2601	A	C1'-C2'-O2'	-5.37	103.75	111.80
85	A5	3649	A	N9-C1'-C2'	5.37	120.05	112.00
85	A5	4000	G	P-O3'-C3'	-5.37	112.15	120.20
87	A8	97	A	P-O5'-C5'	-5.37	112.85	120.90
1	Az	199	PRO	CA-C-O	5.36	125.03	118.92
36	B2	93	U	O4'-C1'-N1	5.36	116.55	108.50
36	B2	154	U	O4'-C1'-C2'	-5.36	102.24	107.60
36	B2	552	G	O4'-C1'-N9	5.36	116.55	108.50
36	B2	1428	G	N9-C1'-C2'	-5.36	103.95	112.00
36	B2	1676	U	C1'-C2'-O2'	5.36	116.44	108.40
37	BC	9	G	O4'-C1'-C2'	-5.36	100.44	105.80
55	CU	123	GLU	CA-C-N	-5.36	115.32	122.72
55	CU	123	GLU	C-N-CA	-5.36	115.32	122.72
56	CX	69	ASN	N-CA-C	-5.36	99.37	110.80
85	A5	393	U	O4'-C1'-C2'	-5.36	102.24	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
87	A8	115	G	O4'-C1'-C2'	5.36	112.96	107.60
31	AH	32	MET	N-CA-C	-5.36	102.11	110.10
36	B2	1208	A	N9-C1'-C2'	-5.36	103.96	112.00
57	CY	93	THR	N-CA-C	5.36	118.22	110.28
85	A5	4453	C	N1-C1'-C2'	5.36	120.04	112.00
11	AL	6	THR	O-C-N	-5.36	115.46	122.59
36	B2	23	G	C4'-C3'-O3'	-5.36	104.96	113.00
36	B2	796	G	O4'-C1'-N9	5.36	116.54	108.50
36	B2	1771	G	N9-C1'-C2'	5.36	120.04	112.00
47	CI	206	LEU	CD1-CG-CD2	-5.36	99.01	110.80
56	CX	74	TYR	N-CA-C	-5.36	106.58	113.23
85	A5	1067	G	O4'-C1'-N9	5.36	116.54	108.50
85	A5	1569	U	O4'-C1'-C2'	-5.36	102.24	107.60
85	A5	1995	G	C3'-C2'-C1'	5.36	106.66	101.30
85	A5	2569	G	C1'-O4'-C4'	-5.36	104.54	109.90
85	A5	3863	C	C3'-C2'-C1'	5.36	106.66	101.30
85	A5	4305	G	C1'-O4'-C4'	-5.36	104.34	109.70
27	AE	133	THR	CB-CA-C	-5.36	102.22	110.26
36	B2	1704	C	O4'-C1'-C2'	-5.36	102.24	107.60
42	CL	49	ARG	N-CA-CB	-5.36	101.39	110.50
85	A5	2829	U	N1-C1'-C2'	-5.36	103.96	112.00
85	A5	3851	U	N1-C1'-C2'	5.36	120.04	112.00
85	A5	4959	U	O4'-C1'-N1	5.36	116.54	108.50
85	A5	5051	C	N1-C1'-C2'	5.36	120.04	112.00
87	A8	28	C	O4'-C1'-C2'	-5.36	102.24	107.60
11	AL	44	PHE	CA-CB-CG	-5.36	108.44	113.80
36	B2	167	G	N9-C1'-C2'	-5.36	103.96	112.00
36	B2	548	C	O4'-C1'-C2'	-5.36	102.24	107.60
37	BC	26	C	C3'-C2'-C1'	5.36	106.66	101.30
74	CC	254	GLU	N-CA-C	-5.36	105.35	111.14
85	A5	237	G	O4'-C1'-N9	5.36	116.54	108.50
85	A5	1861	U	O4'-C1'-N1	5.36	116.54	108.50
85	A5	4977	A	N9-C1'-C2'	5.36	120.03	112.00
36	B2	501	C	N1-C1'-C2'	5.36	120.03	112.00
36	B2	699	C	N1-C1'-C2'	5.36	120.03	112.00
44	CM	102	ALA	N-CA-C	-5.36	106.25	112.89
60	Cr	77	TYR	CA-CB-CG	5.36	123.54	113.90
85	A5	693	C	O4'-C1'-C2'	-5.36	102.24	107.60
85	A5	1236	C	N1-C1'-C2'	5.36	120.03	112.00
85	A5	1364	U	N1-C1'-C2'	-5.36	103.97	112.00
85	A5	1594	C	C3'-C2'-C1'	5.36	106.66	101.30
85	A5	3704	U	O4'-C1'-N1	5.36	116.53	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4174	U	O4'-C1'-N1	5.36	116.53	108.50
85	A5	4278	C	O4'-C1'-C2'	-5.36	102.25	107.60
85	A5	4888	U	O4'-C1'-C2'	-5.36	100.44	105.80
3	AU	90	ASP	N-CA-C	5.35	117.47	107.99
85	A5	46	U	C4'-C3'-O3'	-5.35	104.97	113.00
85	A5	2619	G	C4'-C3'-O3'	-5.35	104.97	113.00
36	B2	415	A	O4'-C1'-N9	5.35	116.53	108.50
36	B2	1632	G	C5'-C4'-C3'	5.35	123.23	115.20
38	Cz	26	ARG	CA-C-N	-5.35	103.90	122.20
38	Cz	26	ARG	C-N-CA	-5.35	103.90	122.20
60	Cr	43	LEU	CB-CG-CD2	5.35	126.76	110.70
85	A5	2255	C	C1'-O4'-C4'	-5.35	104.35	109.70
85	A5	2390	G	C1'-C2'-O2'	5.35	116.43	108.40
85	A5	2767	U	O5'-C5'-C4'	5.35	119.53	111.50
85	A5	4658	G	C1'-C2'-O2'	5.35	116.43	108.40
86	A7	8	G	C1'-C2'-O2'	5.35	116.43	108.40
36	B2	1315	U	C3'-C2'-C1'	-5.35	95.95	101.30
26	AJ	41	ARG	N-CA-C	-5.35	105.45	111.28
36	B2	1056	U	C4'-C3'-O3'	-5.35	104.97	113.00
65	Cc	94	LEU	CB-CA-C	-5.35	98.30	110.07
74	CC	305	PRO	CA-C-N	5.35	131.76	121.54
74	CC	305	PRO	C-N-CA	5.35	131.76	121.54
85	A5	1271	G	C1'-C2'-O2'	5.35	116.42	108.40
85	A5	1836	G	O4'-C1'-N9	5.35	116.53	108.50
85	A5	2264	C	N1-C1'-C2'	5.35	120.02	112.00
85	A5	3593	C	C2'-C3'-O3'	5.35	117.53	109.50
85	A5	4714	C	O4'-C1'-C2'	-5.35	102.25	107.60
36	B2	1471	C	C3'-C2'-C1'	5.35	106.65	101.30
85	A5	358	C	N1-C1'-C2'	5.35	120.02	112.00
85	A5	1257	A	C3'-C2'-C1'	5.35	106.65	101.30
87	A8	76	C	C4'-C3'-C2'	-5.35	97.25	102.60
54	CP	118	GLN	CA-C-N	-5.35	116.20	123.10
54	CP	118	GLN	C-N-CA	-5.35	116.20	123.10
4	AK	80	ARG	N-CA-C	-5.34	105.45	111.28
36	B2	1118	C	C1'-O4'-C4'	5.34	115.25	109.90
49	CQ	94	GLU	CB-CG-CD	-5.34	103.51	112.60
69	Cg	46	CYS	CA-C-O	5.34	126.40	120.63
70	Ci	32	ARG	CA-C-N	5.34	133.34	121.80
70	Ci	32	ARG	C-N-CA	5.34	133.34	121.80
85	A5	1195	G	C3'-C2'-C1'	-5.34	95.95	101.30
85	A5	2741	U	O4'-C1'-C2'	-5.34	100.45	105.80
85	A5	2891	U	O4'-C1'-C2'	-5.34	102.25	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	3695	U	O4'-C1'-C2'	-5.34	102.25	107.60
85	A5	4748	U	C4'-C3'-C2'	-5.34	97.26	102.60
85	A5	4872	G	P-O5'-C5'	-5.34	112.88	120.90
85	A5	4889	G	C5'-C4'-C3'	5.34	123.22	115.20
7	AM	11	VAL	CB-CA-C	-5.34	106.05	112.19
85	A5	2896	G	C3'-C2'-C1'	-5.34	95.96	101.30
85	A5	4487	A	O4'-C1'-C2'	-5.34	102.26	107.60
1	Az	327	ASP	CA-CB-CG	-5.34	107.26	112.60
11	AL	154	GLN	O-C-N	-5.34	118.24	123.26
47	CI	26	VAL	CA-C-N	5.34	125.64	119.92
47	CI	26	VAL	C-N-CA	5.34	125.64	119.92
74	CC	155	GLU	CA-CB-CG	5.34	124.78	114.10
85	A5	1232	G	C2'-C3'-O3'	5.34	117.51	109.50
85	A5	1296	G	O4'-C1'-C2'	5.34	111.14	105.80
85	A5	1446	C	O4'-C1'-N1	5.34	116.51	108.50
85	A5	2323	C	C3'-C2'-C1'	5.34	106.64	101.30
85	A5	4144	C	O4'-C1'-C2'	-5.34	100.46	105.80
86	A7	104	C	N1-C1'-C2'	5.34	120.01	112.00
18	AY	77	ASP	CA-C-N	-5.34	115.46	122.99
18	AY	77	ASP	C-N-CA	-5.34	115.46	122.99
36	B2	217	A	O3'-P-O5'	5.34	112.01	104.00
36	B2	1154	U	C4'-C3'-C2'	-5.34	97.26	102.60
36	B2	1175	G	C1'-O4'-C4'	-5.34	104.56	109.90
36	B2	1800	A	C3'-C2'-C1'	5.34	106.64	101.30
81	CE	128	HIS	CG-CD2-NE2	5.34	112.54	107.20
85	A5	185	C	C1'-O4'-C4'	5.34	115.24	109.90
85	A5	1070	G	C1'-O4'-C4'	-5.34	104.56	109.90
86	A7	73	U	C1'-O4'-C4'	-5.34	104.56	109.90
86	A7	107	G	N9-C1'-C2'	5.34	120.01	112.00
85	A5	2397	G	C3'-C2'-C1'	-5.34	96.16	101.50
21	Ab	26	GLN	N-CA-C	-5.34	103.44	110.43
21	Ab	53	VAL	CB-CA-C	-5.34	103.28	111.71
25	Af	135	HIS	N-CA-C	5.34	116.74	107.93
36	B2	105	U	O4'-C1'-C2'	-5.34	102.26	107.60
68	Cf	55	ASN	N-CA-CB	5.34	119.51	110.49
81	CE	188	ARG	CG-CD-NE	-5.34	100.26	112.00
85	A5	686	A	C4'-C3'-C2'	-5.34	97.26	102.60
85	A5	1270	A	O4'-C1'-N9	5.34	116.50	108.50
36	B2	1430	C	P-O5'-C5'	-5.33	112.90	120.90
57	CY	51	LYS	O-C-N	-5.33	116.33	122.09
85	A5	1437	C	C5'-C4'-C3'	5.33	124.00	116.00
85	A5	3967	G	C1'-C2'-O2'	5.33	116.40	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AU	104	ILE	CA-CB-CG1	5.33	119.47	110.40
39	Cq	127	ASN	CB-CA-C	-5.33	100.53	109.65
59	CZ	29	ILE	CA-C-N	-5.33	113.13	120.28
59	CZ	29	ILE	C-N-CA	-5.33	113.13	120.28
67	Ce	108	ARG	CA-CB-CG	-5.33	103.43	114.10
85	A5	96	U	N1-C1'-C2'	5.33	120.00	112.00
85	A5	450	G	N9-C1'-C2'	-5.33	104.00	112.00
87	A8	95	A	N9-C1'-C2'	5.33	120.00	112.00
1	Az	285	LEU	C-N-CD	-5.33	103.14	125.00
36	B2	448	A	C3'-C2'-C1'	-5.33	96.17	101.50
36	B2	753	C	O4'-C1'-C2'	-5.33	102.27	107.60
36	B2	853	C	C4'-C3'-O3'	5.33	121.00	113.00
47	CI	206	LEU	CA-CB-CG	5.33	134.96	116.30
85	A5	2399	G	C3'-C2'-C1'	-5.33	95.97	101.30
85	A5	2797	C	C1'-C2'-O2'	-5.33	103.80	111.80
85	A5	4965	U	C1'-O4'-C4'	5.33	115.03	109.70
2	Ag	142	VAL	CA-C-N	5.33	131.72	121.54
2	Ag	142	VAL	C-N-CA	5.33	131.72	121.54
35	Ah	301	ARG	N-CA-C	5.33	117.30	108.13
65	Cc	84	ALA	O-C-N	5.33	127.56	122.07
67	Ce	119	ALA	N-CA-C	5.33	119.08	112.58
85	A5	259	C	N1-C1'-C2'	5.33	120.00	112.00
85	A5	1483	C	O4'-C1'-C2'	-5.33	102.27	107.60
2	Ag	260	ASP	CA-CB-CG	-5.33	107.27	112.60
36	B2	813	A	O4'-C1'-C2'	-5.33	102.27	107.60
36	B2	1237	C	C4'-C3'-C2'	-5.33	97.27	102.60
36	B2	1338	G	O4'-C1'-C2'	-5.33	102.27	107.60
53	CT	51	GLY	N-CA-C	-5.33	100.55	113.18
85	A5	432	U	C1'-O4'-C4'	-5.33	104.57	109.90
85	A5	2388	A	C4'-C3'-O3'	-5.33	105.01	113.00
85	A5	3703	G	O4'-C1'-N9	5.33	116.49	108.50
85	A5	4199	C	C3'-C2'-C1'	5.33	106.63	101.30
85	A5	4599	A	O3'-P-O5'	-5.33	96.01	104.00
85	A5	5064	G	C1'-O4'-C4'	-5.33	104.57	109.90
48	CD	220	LYS	CB-CA-C	-5.33	99.82	110.42
32	AW	93	LEU	N-CA-C	5.33	120.45	112.94
36	B2	733	C	C3'-C2'-C1'	5.33	106.63	101.30
36	B2	816	A	O4'-C1'-C2'	-5.33	102.28	107.60
64	CF	232	ASP	CA-CB-CG	-5.33	107.27	112.60
85	A5	1432	G	C4'-C3'-O3'	-5.33	105.01	113.00
85	A5	1919	G	C3'-C2'-C1'	5.33	106.83	101.50
85	A5	2424	G	N9-C1'-C2'	5.33	119.99	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2553	A	P-O5'-C5'	-5.33	112.91	120.90
85	A5	4335	C	C1'-C2'-O2'	-5.33	103.81	111.80
34	AQ	6	PRO	CA-C-N	-5.32	113.26	122.10
34	AQ	6	PRO	C-N-CA	-5.32	113.26	122.10
68	Cf	4	ARG	CG-CD-NE	-5.32	100.29	112.00
85	A5	1772	C	N1-C1'-C2'	5.32	119.98	112.00
85	A5	2737	C	C1'-C2'-O2'	5.32	116.39	108.40
85	A5	3280	G	C5'-C4'-C3'	5.32	122.89	114.90
85	A5	4168	G	O4'-C1'-C2'	5.32	112.92	107.60
85	A5	4185	G	O4'-C1'-N9	5.32	116.49	108.50
10	AN	132	LYS	CA-CB-CG	-5.32	103.46	114.10
32	AW	2	VAL	O-C-N	-5.32	114.48	123.00
36	B2	478	G	P-O5'-C5'	5.32	128.88	120.90
42	CL	183	ARG	N-CA-C	5.32	117.08	111.28
85	A5	1212	G	C1'-O4'-C4'	-5.32	104.58	109.90
85	A5	2290	C	O4'-C1'-C2'	-5.32	102.28	107.60
85	A5	3594	C	C1'-O4'-C4'	-5.32	104.58	109.90
36	B2	420	G	N9-C1'-C2'	5.32	119.98	112.00
36	B2	1174	U	O4'-C1'-N1	5.32	116.48	108.50
36	B2	1292	C	O4'-C1'-N1	-5.32	100.52	108.50
85	A5	2769	U	P-O5'-C5'	-5.32	112.92	120.90
85	A5	2773	G	P-O5'-C5'	-5.32	112.92	120.90
85	A5	4236	G	C1'-O4'-C4'	-5.32	104.58	109.90
85	A5	4258	C	O4'-C1'-C2'	-5.32	102.28	107.60
85	A5	4329	G	N9-C1'-C2'	-5.32	104.02	112.00
85	A5	4431	U	O4'-C1'-N1	5.32	116.48	108.50
85	A5	4636	U	O4'-C1'-N1	5.32	116.48	108.50
26	AJ	35	TYR	CA-CB-CG	-5.32	104.33	113.90
36	B2	129	C	O3'-P-O5'	-5.32	96.02	104.00
39	Cq	127	ASN	N-CA-CB	5.32	117.79	109.97
85	A5	278	G	P-O5'-C5'	-5.32	112.92	120.90
36	B2	1083	A	N9-C1'-C2'	5.32	119.98	112.00
85	A5	974	C	O4'-C1'-N1	5.32	116.47	108.50
85	A5	2736	G	C1'-O4'-C4'	-5.32	104.58	109.90
1	Az	722	ILE	CB-CA-C	-5.32	108.72	114.35
36	B2	786	G	P-O5'-C5'	-5.32	112.93	120.90
36	B2	1236	G	C3'-C2'-O2'	5.32	118.67	110.70
52	CS	80	ILE	O-C-N	-5.32	117.31	123.00
62	Cb	14	ARG	N-CA-C	-5.32	106.06	112.54
85	A5	218	A	C3'-C2'-C1'	5.32	106.81	101.50
85	A5	378	A	C4'-C3'-O3'	-5.32	105.03	113.00
85	A5	1865	G	O5'-C5'-C4'	-5.32	103.53	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2498	C	O4'-C1'-C2'	-5.32	102.28	107.60
85	A5	2544	G	O4'-C4'-C3'	-5.32	98.69	104.00
85	A5	2760	G	N9-C1'-C2'	-5.32	106.03	114.00
85	A5	4776	G	N9-C1'-C2'	5.32	119.97	112.00
85	A5	4954	G	O4'-C1'-C2'	-5.32	102.28	107.60
12	AR	3	ARG	NE-CZ-NH2	5.31	123.98	119.20
85	A5	709	C	C4'-C3'-O3'	-5.31	105.03	113.00
85	A5	1840	G	N9-C1'-C2'	5.31	119.97	112.00
36	B2	799	U	C4'-C3'-C2'	-5.31	97.29	102.60
42	CL	156	PRO	N-CA-C	5.31	120.52	113.40
44	CM	64	PHE	O-C-N	-5.31	115.21	121.32
60	Cr	38	PHE	CB-CA-C	-5.31	102.72	110.95
81	CE	97	GLY	CA-C-O	5.31	128.79	121.46
85	A5	1285	U	C1'-O4'-C4'	-5.31	104.59	109.90
85	A5	1547	A	C3'-C2'-C1'	5.31	106.61	101.30
85	A5	4997	G	C1'-O4'-C4'	-5.31	104.59	109.90
85	A5	5034	A	C4'-C3'-C2'	-5.31	97.29	102.60
14	AT	42	HIS	CA-CB-CG	-5.31	108.49	113.80
42	CL	61	CYS	N-CA-CB	-5.31	103.42	110.17
52	CS	88	SER	CA-C-N	5.31	126.82	121.35
52	CS	88	SER	C-N-CA	5.31	126.82	121.35
74	CC	23	THR	N-CA-C	5.31	122.11	110.80
85	A5	2271	C	C3'-C2'-C1'	5.31	106.61	101.30
21	Ab	28	PRO	O-C-N	5.31	129.41	123.04
30	AF	130	ARG	CB-CG-CD	5.31	123.51	111.30
36	B2	734	C	C3'-C2'-C1'	5.31	106.61	101.30
48	CD	211	LEU	CA-C-O	5.31	126.05	120.42
81	CE	38	LYS	CB-CA-C	-5.31	99.86	110.42
81	CE	38	LYS	CG-CD-CE	-5.31	99.09	111.30
85	A5	2107	C	C5'-C4'-C3'	5.31	123.16	115.20
85	A5	2410	C	N1-C1'-C2'	5.31	119.96	112.00
85	A5	3736	A	P-O5'-C5'	-5.31	112.94	120.90
85	A5	3788	C	N1-C1'-C2'	5.31	119.96	112.00
1	Az	78	PHE	CA-C-N	-5.31	111.91	121.62
1	Az	78	PHE	C-N-CA	-5.31	111.91	121.62
36	B2	167	G	O4'-C1'-N9	5.31	116.46	108.50
85	A5	411	G	O4'-C1'-C2'	-5.31	100.49	105.80
85	A5	448	G	C4'-C3'-O3'	-5.31	105.04	113.00
85	A5	1700	G	O4'-C1'-N9	5.31	116.46	108.50
85	A5	2078	C	N1-C1'-C2'	5.31	119.96	112.00
85	A5	4359	U	O4'-C1'-C2'	-5.31	102.29	107.60
15	AB	22	VAL	N-CA-C	5.31	120.38	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	11	A	O3'-P-O5'	5.31	111.96	104.00
36	B2	207	G	O4'-C1'-N9	5.31	116.46	108.50
36	B2	547	G	N9-C1'-C2'	5.31	119.96	112.00
36	B2	833	C	O4'-C1'-C2'	-5.31	102.29	107.60
60	Cr	36	ASN	CA-C-O	-5.31	114.49	120.43
2	Ag	273	GLU	O-C-N	5.30	129.78	122.72
36	B2	67	C	C1'-C2'-O2'	5.30	116.36	108.40
85	A5	957	G	O4'-C1'-N9	5.30	116.16	108.20
36	B2	1277	C	N1-C1'-C2'	5.30	119.95	112.00
68	Cf	59	THR	CA-C-N	5.30	126.47	119.84
68	Cf	59	THR	C-N-CA	5.30	126.47	119.84
85	A5	1445	U	C2'-C3'-O3'	5.30	121.66	113.70
85	A5	2770	C	N1-C1'-C2'	5.30	119.95	112.00
85	A5	4988	U	N1-C1'-C2'	5.30	121.95	114.00
1	Az	186	ASN	CA-CB-CG	-5.30	107.30	112.60
36	B2	489	A	P-O5'-C5'	5.30	128.85	120.90
36	B2	1697	A	N9-C1'-C2'	-5.30	106.05	114.00
85	A5	733	A	C1'-O4'-C4'	-5.30	104.60	109.90
85	A5	1386	C	C3'-C2'-C1'	5.30	106.60	101.30
85	A5	1657	G	O4'-C1'-C2'	5.30	112.90	107.60
85	A5	4862	G	O4'-C1'-N9	5.30	116.45	108.50
1	Az	407	LYS	O-C-N	-5.30	116.56	122.55
5	AO	145	GLY	CA-C-O	5.30	125.66	122.22
27	AE	75	LYS	N-CA-CB	-5.30	103.12	111.23
36	B2	19	A	O4'-C1'-N9	5.30	116.45	108.50
36	B2	94	G	C1'-O4'-C4'	-5.30	104.60	109.90
36	B2	144	U	C1'-O4'-C4'	-5.30	104.60	109.90
49	CQ	10	ASP	CA-C-N	5.30	131.66	121.54
49	CQ	10	ASP	C-N-CA	5.30	131.66	121.54
53	CT	102	ARG	N-CA-C	-5.30	105.50	111.28
85	A5	652	G	C1'-O4'-C4'	-5.30	104.60	109.90
85	A5	970	G	O4'-C1'-C2'	5.30	111.10	105.80
85	A5	2321	G	P-O3'-C3'	5.30	128.15	120.20
85	A5	3926	C	C1'-C2'-O2'	5.30	116.35	108.40
85	A5	4987	C	N1-C1'-C2'	5.30	119.95	112.00
87	A8	107	C	O4'-C1'-C2'	-5.30	102.30	107.60
29	AG	143	LYS	N-CA-C	5.30	117.13	111.36
55	CU	49	VAL	N-CA-CB	5.30	119.23	112.34
85	A5	446	C	O4'-C1'-N1	5.30	116.45	108.50
85	A5	2784	C	C1'-O4'-C4'	-5.30	104.60	109.90
85	A5	3887	C	C2'-C3'-O3'	5.30	121.65	113.70
48	CD	115	MET	N-CA-C	-5.30	102.49	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	52	G	O4'-C1'-C2'	-5.30	102.30	107.60
85	A5	1731	C	N1-C1'-C2'	5.30	119.95	112.00
85	A5	2253	A	O5'-C5'-C4'	5.30	119.44	111.50
36	B2	738	C	O4'-C1'-C2'	-5.29	102.31	107.60
36	B2	1692	U	C1'-C2'-O2'	5.29	116.34	108.40
85	A5	493	G	O4'-C1'-N9	5.29	116.44	108.50
36	B2	1109	C	C3'-C2'-C1'	-5.29	96.01	101.30
36	B2	1274	G	C2'-C3'-O3'	5.29	117.44	109.50
36	B2	1557	C	O3'-P-O5'	5.29	111.94	104.00
58	CW	77	LYS	CA-C-N	-5.29	111.43	121.54
58	CW	77	LYS	C-N-CA	-5.29	111.43	121.54
74	CC	154	VAL	CA-C-N	5.29	128.86	121.24
74	CC	154	VAL	C-N-CA	5.29	128.86	121.24
78	Co	85	ILE	CB-CA-C	-5.29	104.50	111.70
85	A5	226	G	O3'-P-O5'	-5.29	96.06	104.00
85	A5	1336	G	O3'-P-O5'	-5.29	96.06	104.00
85	A5	2115	G	C5'-C4'-C3'	-5.29	108.06	116.00
85	A5	2130	G	O4'-C1'-C2'	-5.29	102.31	107.60
85	A5	2889	G	C1'-O4'-C4'	-5.29	104.61	109.90
85	A5	4721	G	O3'-P-O5'	-5.29	96.06	104.00
1	Az	409	ARG	CB-CA-C	5.29	120.95	110.42
36	B2	62	G	C1'-O4'-C4'	-5.29	104.61	109.90
51	CA	68	ARG	N-CA-CB	5.29	121.37	111.53
64	CF	206	ASN	CA-CB-CG	-5.29	107.31	112.60
78	Co	16	GLY	N-CA-C	-5.29	107.68	115.30
85	A5	1392	A	N9-C1'-C2'	5.29	119.94	112.00
85	A5	1729	A	C4'-C3'-C2'	-5.29	97.31	102.60
85	A5	2305	U	O4'-C1'-C2'	-5.29	100.51	105.80
85	A5	2573	A	O4'-C1'-C2'	-5.29	102.31	107.60
85	A5	3625	G	N9-C1'-C2'	5.29	119.94	112.00
85	A5	4420	U	N1-C1'-C2'	5.29	119.94	112.00
85	A5	5031	G	N9-C1'-C2'	5.29	119.94	112.00
16	AA	193	HIS	CB-CA-C	-5.29	101.17	109.11
69	Cg	83	CYS	CB-CA-C	5.29	120.42	110.63
85	A5	1222	A	C5'-C4'-C3'	5.29	123.14	115.20
85	A5	1604	G	C1'-C2'-O2'	5.29	116.33	108.40
85	A5	2684	C	C3'-C2'-C1'	5.29	106.59	101.30
36	B2	31	U	O4'-C1'-C2'	-5.29	102.31	107.60
36	B2	64	A	O4'-C1'-C2'	5.29	111.09	105.80
36	B2	810	A	C3'-C2'-C1'	5.29	106.59	101.30
36	B2	819	G	O4'-C1'-N9	5.29	116.43	108.50
36	B2	1155	U	O4'-C1'-N1	5.29	116.13	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1230	C	C1'-C2'-O2'	5.29	116.33	108.40
85	A5	1961	G	O4'-C1'-N9	5.29	116.13	108.20
85	A5	2718	U	O4'-C1'-N1	5.29	116.43	108.50
85	A5	3622	C	O4'-C1'-C2'	-5.29	102.31	107.60
85	A5	3767	C	P-O5'-C5'	5.29	128.83	120.90
85	A5	3902	A	O4'-C1'-C2'	-5.29	102.31	107.60
85	A5	4613	C	C3'-C2'-C1'	5.29	106.59	101.30
33	AI	134	GLU	N-CA-C	-5.29	105.41	111.07
36	B2	1337	C	C2'-C3'-O3'	5.29	121.63	113.70
85	A5	1068	G	P-O5'-C5'	-5.29	112.97	120.90
4	AK	62	PHE	N-CA-C	5.29	117.85	111.40
36	B2	733	C	C4'-C3'-C2'	-5.29	97.31	102.60
36	B2	750	C	C4'-C3'-C2'	-5.29	97.31	102.60
37	BC	28	G	P-O5'-C5'	-5.29	112.97	120.90
81	CE	104	THR	CA-C-O	-5.29	114.45	120.32
85	A5	1696	C	N1-C1'-C2'	5.29	119.93	112.00
85	A5	2122	G	P-O3'-C3'	5.29	128.13	120.20
85	A5	2455	G	C1'-C2'-O2'	5.29	116.33	108.40
85	A5	4067	U	P-O5'-C5'	5.29	128.83	120.90
85	A5	4153	C	N1-C1'-C2'	5.29	119.93	112.00
30	AF	130	ARG	CA-CB-CG	-5.28	103.53	114.10
36	B2	110	U	P-O3'-C3'	-5.28	112.27	120.20
36	B2	599	A	C1'-C2'-O2'	5.28	116.32	108.40
85	A5	1361	G	O4'-C1'-C2'	5.28	112.88	107.60
85	A5	3639	U	N1-C1'-C2'	5.28	119.93	112.00
36	B2	213	G	P-O3'-C3'	-5.28	112.28	120.20
36	B2	1687	C	O4'-C1'-C2'	-5.28	102.32	107.60
85	A5	1567	U	O4'-C1'-C2'	-5.28	102.32	107.60
85	A5	2256	C	C5'-C4'-C3'	5.28	123.92	116.00
85	A5	4175	G	C1'-O4'-C4'	-5.28	104.62	109.90
36	B2	578	C	C3'-C2'-C1'	5.28	106.58	101.30
36	B2	1379	A	N9-C1'-C2'	5.28	119.92	112.00
37	BC	2	G	O4'-C1'-N9	5.28	116.42	108.50
74	CC	14	LYS	CA-CB-CG	-5.28	103.54	114.10
85	A5	926	G	C5'-C4'-O4'	5.28	117.02	109.10
85	A5	2820	C	O4'-C1'-C2'	-5.28	102.32	107.60
85	A5	4250	G	C3'-C2'-C1'	5.28	106.58	101.30
85	A5	5059	C	O4'-C4'-C3'	-5.28	98.72	104.00
24	Ae	3	HIS	ND1-CE1-NE2	5.28	113.68	108.40
28	AC	64	THR	N-CA-C	5.28	118.09	109.59
59	CZ	31	ASP	CA-C-N	5.28	131.76	121.41
59	CZ	31	ASP	C-N-CA	5.28	131.76	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
64	CF	28	LEU	CB-CA-C	-5.28	102.83	110.96
85	A5	1880	G	O4'-C1'-C2'	5.28	112.88	107.60
16	AA	63	ARG	N-CA-CB	5.28	117.88	110.12
29	AG	157	VAL	O-C-N	5.28	128.36	122.61
36	B2	1096	G	C2'-C3'-O3'	5.28	117.42	109.50
52	CS	93	MET	N-CA-C	5.28	117.70	109.52
64	CF	221	LYS	CA-C-N	5.28	131.62	121.54
64	CF	221	LYS	C-N-CA	5.28	131.62	121.54
85	A5	1290	G	P-O3'-C3'	-5.28	112.28	120.20
85	A5	3790	U	C1'-O4'-C4'	5.28	114.98	109.70
85	A5	3893	C	P-O5'-C5'	-5.28	112.98	120.90
85	A5	4928	C	C4'-C3'-O3'	-5.28	105.08	113.00
31	AH	15	LYS	C-N-CD	-5.28	103.37	125.00
85	A5	703	G	C1'-C2'-O2'	5.28	119.71	111.80
85	A5	1109	C	N1-C1'-C2'	5.28	119.91	112.00
85	A5	1268	G	C4'-C3'-O3'	5.28	117.31	109.40
85	A5	2781	G	C4'-C3'-O3'	-5.28	105.09	113.00
85	A5	3614	G	O4'-C1'-N9	5.28	116.11	108.20
1	Az	321	ILE	CA-C-N	-5.27	113.95	122.81
1	Az	321	ILE	C-N-CA	-5.27	113.95	122.81
36	B2	1285	G	C2'-C3'-O3'	-5.27	101.59	109.50
60	Cr	67	ARG	CA-CB-CG	5.27	124.65	114.10
85	A5	195	C	O4'-C1'-C2'	-5.27	102.33	107.60
85	A5	929	A	C1'-O4'-C4'	-5.27	104.63	109.90
85	A5	1500	A	P-O3'-C3'	5.27	128.11	120.20
36	B2	283	G	C1'-O4'-C4'	-5.27	104.63	109.90
36	B2	1206	G	C1'-O4'-C4'	-5.27	104.63	109.90
37	BC	8	U	O4'-C1'-C2'	-5.27	102.33	107.60
43	CV	132	ILE	N-CA-C	-5.27	105.70	110.82
47	CI	3	ARG	N-CA-C	5.27	122.03	110.80
67	Ce	57	ASN	N-CA-C	5.27	117.09	108.76
85	A5	4912	G	O4'-C1'-C2'	-5.27	102.33	107.60
36	B2	592	C	C1'-C2'-O2'	5.27	119.71	111.80
52	CS	20	PRO	CA-N-CD	-5.27	104.62	112.00
82	CG	170	LEU	CA-C-N	-5.27	113.49	118.97
82	CG	170	LEU	C-N-CA	-5.27	113.49	118.97
85	A5	1370	G	C1'-C2'-O2'	-5.27	100.49	108.40
85	A5	1540	C	N1-C1'-C2'	5.27	119.91	112.00
1	Az	805	GLY	N-CA-C	-5.27	106.97	115.08
15	AB	38	MET	N-CA-CB	5.27	119.14	110.39
36	B2	1253	A	C2'-C3'-O3'	5.27	117.41	109.50
36	B2	1567	G	P-O3'-C3'	-5.27	112.30	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1620	A	C1'-C2'-O2'	5.27	119.70	111.80
43	CV	10	SER	CB-CA-C	5.27	118.83	110.19
85	A5	1694	C	O4'-C1'-C2'	-5.27	102.33	107.60
85	A5	1823	G	P-O3'-C3'	-5.27	112.30	120.20
85	A5	2682	G	C1'-C2'-O2'	5.27	116.30	108.40
85	A5	2762	G	C3'-C2'-O2'	-5.27	106.69	114.60
85	A5	2822	G	C1'-O4'-C4'	5.27	115.17	109.90
86	A7	120	U	C5'-C4'-C3'	-5.27	108.09	116.00
36	B2	127	C	P-O3'-C3'	5.27	128.10	120.20
36	B2	667	U	C1'-O4'-C4'	-5.27	104.63	109.90
68	Cf	108	SER	O-C-N	5.27	129.22	123.27
85	A5	1410	U	C4'-C3'-O3'	-5.27	105.10	113.00
85	A5	4498	U	N1-C1'-C2'	-5.27	104.10	112.00
86	A7	59	G	C5'-C4'-C3'	-5.27	108.10	116.00
85	A5	2103	G	O4'-C1'-N9	5.27	116.40	108.50
85	A5	4149	C	O4'-C1'-N1	5.27	116.40	108.50
87	A8	42	G	C4'-C3'-C2'	-5.27	97.33	102.60
1	Az	712	ASP	CA-CB-CG	-5.26	107.34	112.60
3	AU	51	LYS	N-CA-C	-5.26	99.59	110.80
13	AP	122	THR	N-CA-CB	5.26	117.81	110.07
36	B2	1023	A	N9-C1'-C2'	-5.26	104.10	112.00
36	B2	1530	U	O4'-C1'-C2'	-5.26	102.34	107.60
36	B2	1551	U	C3'-C2'-C1'	-5.26	96.04	101.30
40	CK	102	GLY	CA-C-N	-5.26	115.98	123.03
40	CK	102	GLY	C-N-CA	-5.26	115.98	123.03
63	CB	55	HIS	CA-CB-CG	5.26	119.06	113.80
81	CE	62	MET	CA-CB-CG	5.26	124.63	114.10
85	A5	1076	C	C3'-C2'-C1'	5.26	106.56	101.30
85	A5	1947	U	O4'-C1'-C2'	-5.26	100.54	105.80
85	A5	2531	C	P-O3'-C3'	5.26	128.10	120.20
85	A5	4746	C	C3'-C2'-C1'	5.26	106.56	101.30
3	AU	69	PRO	CA-C-O	-5.26	114.76	120.92
85	A5	2492	C	C5'-C4'-C3'	5.26	123.89	116.00
85	A5	4230	C	N1-C1'-C2'	5.26	119.89	112.00
85	A5	4238	G	C4'-C3'-C2'	-5.26	97.34	102.60
8	AS	75	ARG	N-CA-C	-5.26	105.55	111.28
36	B2	1019	C	C3'-C2'-C1'	5.26	106.56	101.30
81	CE	35	LYS	CA-C-N	5.26	134.64	121.80
81	CE	35	LYS	C-N-CA	5.26	134.64	121.80
85	A5	1215	C	P-O5'-C5'	5.26	128.79	120.90
85	A5	1723	A	C1'-O4'-C4'	-5.26	104.64	109.90
85	A5	1808	C	C3'-C2'-C1'	5.26	106.56	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2550	G	O4'-C1'-N9	5.26	116.39	108.50
85	A5	2766	A	C1'-C2'-O2'	5.26	119.69	111.80
36	B2	1409	A	O5'-C5'-C4'	5.26	119.39	111.50
36	B2	1727	G	O4'-C1'-N9	5.26	116.39	108.50
85	A5	383	A	C1'-O4'-C4'	-5.26	104.64	109.90
85	A5	4201	G	N9-C1'-C2'	5.26	119.89	112.00
85	A5	4929	C	N1-C1'-C2'	5.26	119.89	112.00
36	B2	38	A	C1'-O4'-C4'	5.26	114.96	109.70
36	B2	467	G	O4'-C1'-C2'	-5.26	102.34	107.60
75	Cm	127	VAL	O-C-N	5.26	128.04	122.62
85	A5	124	C	O4'-C1'-C2'	-5.26	102.34	107.60
85	A5	1420	A	N9-C1'-C2'	5.26	121.89	114.00
85	A5	1792	U	N1-C1'-C2'	5.26	119.89	112.00
85	A5	4554	G	O4'-C1'-C2'	-5.26	102.34	107.60
1	Az	66	ARG	O-C-N	5.26	127.69	122.12
36	B2	793	G	O4'-C1'-N9	5.26	116.39	108.50
36	B2	1122	A	N9-C1'-C2'	-5.26	104.11	112.00
45	Ca	91	ALA	CB-CA-C	-5.26	110.53	116.63
85	A5	186	G	O4'-C1'-C2'	-5.26	100.54	105.80
85	A5	466	A	O4'-C1'-C2'	-5.26	102.34	107.60
85	A5	2024	G	O4'-C1'-N9	5.26	116.08	108.20
85	A5	2596	G	C4'-C3'-C2'	-5.26	97.34	102.60
36	B2	751	G	O3'-P-O5'	5.25	111.88	104.00
60	Cr	36	ASN	N-CA-CB	-5.25	101.34	110.17
85	A5	1152	G	P-O3'-C3'	5.25	128.08	120.20
85	A5	2369	U	C4'-C3'-O3'	-5.25	101.52	109.40
85	A5	2760	G	P-O5'-C5'	-5.25	113.02	120.90
36	B2	752	G	O4'-C4'-C3'	-5.25	98.75	104.00
85	A5	930	G	C3'-C2'-C1'	-5.25	96.05	101.30
85	A5	3593	C	C3'-C2'-C1'	5.25	106.75	101.50
85	A5	3612	C	N1-C1'-C2'	5.25	119.88	112.00
85	A5	3814	U	C1'-O4'-C4'	-5.25	104.65	109.90
85	A5	4674	C	O4'-C1'-N1	5.25	116.38	108.50
86	A7	51	G	P-O3'-C3'	5.25	128.08	120.20
36	B2	1463	U	O5'-C5'-C4'	-5.25	103.82	111.70
85	A5	1328	G	C1'-O4'-C4'	-5.25	104.65	109.90
85	A5	2879	A	C1'-C2'-O2'	-5.25	103.92	111.80
36	B2	924	G	O4'-C1'-C2'	-5.25	102.35	107.60
36	B2	1108	G	C2'-C3'-O3'	5.25	121.58	113.70
61	Ch	119	TYR	CB-CG-CD1	5.25	128.68	120.80
82	CG	59	ARG	O-C-N	5.25	129.57	122.59
1	Az	577	VAL	N-CA-C	5.25	120.26	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	Af	86	THR	N-CA-CB	5.25	119.36	110.49
36	B2	59	U	O4'-C1'-C2'	-5.25	102.35	107.60
51	CA	67	TYR	CB-CG-CD1	-5.25	112.93	120.80
85	A5	16	G	C2'-C3'-O3'	-5.25	105.83	113.70
85	A5	1355	G	O4'-C1'-N9	5.25	116.37	108.50
85	A5	3770	U	O4'-C1'-N1	5.25	116.37	108.50
85	A5	4996	C	C1'-C2'-O2'	5.25	116.27	108.40
36	B2	1649	U	P-O3'-C3'	-5.25	112.33	120.20
59	CZ	118	PHE	N-CA-C	5.25	117.08	111.36
81	CE	274	VAL	N-CA-C	5.25	120.25	109.34
85	A5	74	G	O4'-C1'-C2'	5.25	112.85	107.60
85	A5	646	G	O4'-C1'-N9	5.25	116.37	108.50
85	A5	2258	C	O4'-C1'-N1	5.25	116.37	108.50
85	A5	2390	G	P-O5'-C5'	5.25	128.77	120.90
85	A5	4097	G	O4'-C1'-C2'	-5.25	102.35	107.60
85	A5	4218	U	O4'-C1'-N1	5.25	116.37	108.50
85	A5	4632	U	O4'-C1'-C2'	-5.25	102.35	107.60
85	A5	4978	G	P-O5'-C5'	-5.25	113.03	120.90
23	AD	145	GLN	CA-C-O	5.25	126.11	120.55
36	B2	471	G	N9-C1'-C2'	-5.25	106.13	114.00
85	A5	1925	G	C4'-C3'-O3'	-5.25	105.13	113.00
85	A5	2697	A	O4'-C1'-N9	5.25	116.37	108.50
85	A5	3586	G	O4'-C1'-C2'	5.25	112.84	107.60
4	AK	1	MET	CA-C-N	5.24	131.14	121.70
4	AK	1	MET	C-N-CA	5.24	131.14	121.70
36	B2	1545	A	P-O5'-C5'	-5.24	113.03	120.90
42	CL	47	ALA	O-C-N	5.24	127.35	121.32
85	A5	1259	G	O4'-C1'-C2'	5.24	112.84	107.60
85	A5	1818	G	C1'-C2'-O2'	5.24	116.27	108.40
85	A5	1829	G	O5'-C5'-C4'	-5.24	103.63	111.50
85	A5	2746	A	O4'-C1'-N9	5.24	116.36	108.50
85	A5	2871	A	O4'-C1'-C2'	-5.24	102.36	107.60
85	A5	4568	A	O4'-C1'-C2'	-5.24	102.36	107.60
34	AQ	68	ILE	N-CA-C	5.24	115.40	107.75
36	B2	40	A	C1'-O4'-C4'	5.24	115.14	109.90
36	B2	191	A	P-O5'-C5'	-5.24	113.04	120.90
36	B2	551	U	C1'-C2'-O2'	5.24	116.26	108.40
85	A5	1810	G	O4'-C1'-C2'	5.24	112.84	107.60
85	A5	3674	G	C5'-C4'-C3'	5.24	123.86	116.00
11	AL	123	GLY	N-CA-C	-5.24	107.66	113.79
36	B2	1465	A	C1'-O4'-C4'	5.24	115.14	109.90
36	B2	1677	U	N1-C1'-C2'	-5.24	104.14	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	CL	167	ARG	CA-C-N	5.24	127.16	120.56
42	CL	167	ARG	C-N-CA	5.24	127.16	120.56
50	CR	130	ASN	CB-CA-C	-5.24	110.10	117.23
63	CB	326	VAL	CA-C-N	5.24	131.86	122.38
63	CB	326	VAL	C-N-CA	5.24	131.86	122.38
85	A5	210	C	N1-C1'-C2'	5.24	121.86	114.00
85	A5	1368	A	C1'-O4'-C4'	-5.24	104.66	109.90
85	A5	3833	C	O5'-C5'-C4'	5.24	119.36	111.50
86	A7	57	C	N1-C1'-C2'	5.24	119.86	112.00
86	A7	64	G	C2'-C3'-O3'	5.24	121.56	113.70
87	A8	118	C	C1'-O4'-C4'	-5.24	104.66	109.90
5	AO	43	HIS	N-CA-CB	-5.24	101.64	110.49
36	B2	527	C	O4'-C1'-N1	5.24	116.36	108.50
36	B2	1645	C	P-O3'-C3'	5.24	128.06	120.20
64	CF	227	PHE	CA-CB-CG	-5.24	108.56	113.80
85	A5	19	G	C1'-O4'-C4'	-5.24	104.66	109.90
85	A5	369	G	C4'-C3'-C2'	-5.24	97.36	102.60
85	A5	1502	G	P-O3'-C3'	-5.24	112.34	120.20
85	A5	3684	G	C1'-C2'-O2'	5.24	116.26	108.40
85	A5	4197	G	C1'-C2'-O2'	5.24	116.26	108.40
36	B2	285	U	N1-C1'-C2'	5.24	119.86	112.00
36	B2	557	U	C1'-C2'-O2'	5.24	116.25	108.40
85	A5	265	C	P-O3'-C3'	5.24	128.06	120.20
85	A5	965	G	C2'-C3'-O3'	5.24	117.36	109.50
36	B2	975	G	O4'-C4'-C3'	-5.24	98.77	104.00
36	B2	1817	G	O4'-C1'-N9	5.24	116.35	108.50
36	B2	1839	U	O4'-C1'-C2'	-5.24	102.36	107.60
85	A5	1262	G	N9-C1'-C2'	5.24	119.85	112.00
85	A5	1480	C	C3'-C2'-C1'	5.24	106.73	101.50
85	A5	1880	G	N9-C1'-C2'	5.24	119.86	112.00
38	Cz	111	LEU	CB-CA-C	-5.23	99.37	109.37
85	A5	1050	C	O4'-C1'-C2'	-5.23	102.37	107.60
85	A5	2073	C	P-O5'-C5'	-5.23	113.05	120.90
85	A5	3752	C	C1'-O4'-C4'	-5.23	104.67	109.90
85	A5	3893	C	C3'-C2'-C1'	5.23	106.53	101.30
85	A5	4505	C	O4'-C1'-C2'	-5.23	102.37	107.60
36	B2	800	U	C4'-C3'-O3'	-5.23	105.15	113.00
36	B2	1567	G	O4'-C4'-C3'	-5.23	98.77	104.00
42	CL	160	VAL	CB-CA-C	5.23	119.87	111.29
58	CW	17	HIS	N-CA-C	5.23	116.80	108.79
85	A5	1217	G	O4'-C1'-C2'	-5.23	102.37	107.60
85	A5	1280	C	C1'-C2'-O2'	-5.23	103.95	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2508	U	O4'-C1'-N1	5.23	116.35	108.50
85	A5	2590	G	P-O3'-C3'	5.23	128.05	120.20
85	A5	4630	G	P-O5'-C5'	-5.23	113.05	120.90
86	A7	109	U	C2'-C3'-O3'	5.23	117.35	109.50
1	Az	398	ILE	N-CA-CB	5.23	117.95	111.41
12	AR	57	LEU	N-CA-C	5.23	116.67	111.07
16	AA	63	ARG	CA-C-O	-5.23	115.00	120.55
25	Af	88	PRO	CA-N-CD	-5.23	104.68	112.00
31	AH	13	GLY	CA-C-N	-5.23	112.73	121.94
31	AH	13	GLY	C-N-CA	-5.23	112.73	121.94
36	B2	394	G	C5'-C4'-C3'	-5.23	108.15	116.00
36	B2	750	C	C1'-O4'-C4'	-5.23	104.67	109.90
36	B2	1363	C	C4'-C3'-O3'	5.23	117.25	109.40
51	CA	242	ARG	N-CA-C	-5.23	101.49	108.86
85	A5	4143	G	O5'-C5'-C4'	5.23	119.55	111.70
87	A8	49	G	C3'-C2'-C1'	5.23	106.53	101.30
14	AT	79	TYR	O-C-N	5.23	128.70	122.27
18	AY	51	THR	C-N-CD	-5.23	103.56	125.00
28	AC	59	GLU	N-CA-C	-5.23	98.75	107.80
42	CL	166	ALA	N-CA-CB	5.23	119.33	110.49
85	A5	1899	G	C1'-C2'-O2'	5.23	116.24	108.40
11	AL	138	VAL	N-CA-C	5.23	115.87	107.98
13	AP	71	GLU	O-C-N	5.23	129.54	122.59
25	Af	151	ASN	N-CA-C	5.23	116.70	107.61
50	CR	90	PRO	CA-C-O	5.23	127.30	121.34
58	CW	71	ARG	NE-CZ-NH2	5.23	123.91	119.20
85	A5	1445	U	C4'-C3'-C2'	-5.23	97.37	102.60
85	A5	4146	G	O4'-C1'-N9	5.23	116.34	108.50
85	A5	4480	A	O4'-C1'-C2'	-5.23	102.37	107.60
85	A5	9	C	C3'-C2'-C1'	5.23	106.53	101.30
85	A5	966	A	O3'-P-O5'	-5.23	96.16	104.00
85	A5	2650	G	C1'-O4'-C4'	-5.23	104.67	109.90
85	A5	4652	G	N9-C1'-C2'	5.23	119.84	112.00
32	AW	89	TRP	N-CA-C	5.22	117.39	111.02
36	B2	554	A	O4'-C1'-C2'	5.22	112.82	107.60
36	B2	830	A	O4'-C1'-C2'	5.22	112.83	107.60
45	Ca	46	ASP	N-CA-C	-5.22	100.79	109.46
46	CN	148	THR	N-CA-C	5.22	119.65	113.28
60	Cr	91	SER	O-C-N	5.22	128.12	122.11
85	A5	252	C	O4'-C1'-C2'	-5.22	102.38	107.60
85	A5	1361	G	C5'-C4'-C3'	5.22	123.84	116.00
85	A5	1463	C	O4'-C1'-C2'	-5.22	102.38	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1862	U	O4'-C1'-N1	5.22	116.34	108.50
85	A5	4293	U	O4'-C1'-C2'	-5.22	102.38	107.60
36	B2	880	G	C3'-C2'-C1'	-5.22	96.08	101.30
36	B2	975	G	O4'-C1'-N9	5.22	116.33	108.50
36	B2	1460	C	O4'-C1'-C2'	-5.22	102.38	107.60
36	B2	1641	A	O4'-C1'-C2'	-5.22	102.38	107.60
36	B2	1746	U	C1'-C2'-O2'	5.22	116.23	108.40
38	Cz	188	ASN	CA-CB-CG	-5.22	107.38	112.60
77	Cp	15	GLY	O-C-N	-5.22	115.91	122.70
85	A5	170	C	O4'-C1'-C2'	-5.22	102.38	107.60
85	A5	4300	U	O4'-C1'-C2'	5.22	112.82	107.60
85	A5	5041	G	C3'-C2'-C1'	-5.22	96.08	101.30
36	B2	271	C	P-O3'-C3'	5.22	128.03	120.20
70	Ci	32	ARG	CA-C-O	-5.22	115.87	121.56
81	CE	31	ASN	CB-CA-C	5.22	120.81	110.42
31	AH	113	LYS	N-CA-C	-5.22	103.50	110.55
36	B2	117	C	O4'-C1'-C2'	-5.22	102.38	107.60
36	B2	1611	G	O3'-P-O5'	-5.22	96.17	104.00
85	A5	152	U	C4'-C3'-O3'	-5.22	105.17	113.00
85	A5	1593	A	C3'-C2'-C1'	5.22	106.52	101.30
85	A5	3957	U	C1'-C2'-O2'	-5.22	103.97	111.80
85	A5	4514	G	O4'-C1'-N9	5.22	116.33	108.50
1	Az	233	VAL	N-CA-CB	5.22	116.66	110.55
13	AP	36	LEU	CB-CA-C	5.22	118.75	109.72
36	B2	76	U	O4'-C1'-C2'	-5.22	102.38	107.60
36	B2	369	C	O4'-C4'-C3'	-5.22	100.88	106.10
85	A5	1192	C	O4'-C1'-C2'	-5.22	102.38	107.60
85	A5	1399	G	O4'-C1'-N9	5.22	116.33	108.50
85	A5	1950	U	O4'-C1'-C2'	-5.22	102.38	107.60
6	AX	2	GLY	N-CA-C	-5.22	100.82	113.18
36	B2	288	G	N9-C1'-C2'	-5.22	104.18	112.00
38	Cz	26	ARG	CA-CB-CG	-5.22	103.67	114.10
85	A5	102	G	C4'-C3'-O3'	-5.22	105.17	113.00
85	A5	934	C	O5'-C5'-C4'	5.22	119.32	111.50
85	A5	976	G	C5'-C4'-C3'	5.22	123.82	116.00
85	A5	2101	C	N1-C1'-C2'	5.22	119.82	112.00
85	A5	2685	C	O4'-C1'-N1	5.22	116.02	108.20
85	A5	3802	U	N1-C1'-C2'	5.22	121.82	114.00
85	A5	4867	G	C1'-O4'-C4'	-5.22	104.68	109.90
36	B2	1003	U	O4'-C1'-C2'	-5.21	102.39	107.60
53	CT	137	GLU	CA-C-N	5.21	131.50	121.54
53	CT	137	GLU	C-N-CA	5.21	131.50	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	356	G	O4'-C1'-C2'	5.21	112.81	107.60
85	A5	3663	A	C3'-C2'-C1'	5.21	106.71	101.50
85	A5	4173	G	C3'-C2'-C1'	5.21	106.51	101.30
85	A5	4332	C	N1-C1'-C2'	5.21	119.82	112.00
1	Az	685	TRP	CA-C-N	5.21	127.69	120.29
1	Az	685	TRP	C-N-CA	5.21	127.69	120.29
48	CD	37	VAL	N-CA-C	5.21	116.30	111.45
85	A5	4168	G	C1'-O4'-C4'	-5.21	104.69	109.90
85	A5	4290	U	N1-C1'-C2'	-5.21	106.18	114.00
17	AV	30	ALA	O-C-N	-5.21	113.71	121.63
39	Cq	44	ARG	CB-CG-CD	5.21	123.28	111.30
82	CG	57	TRP	CA-C-N	5.21	126.35	119.84
82	CG	57	TRP	C-N-CA	5.21	126.35	119.84
85	A5	55	G	P-O5'-C5'	-5.21	113.08	120.90
85	A5	1481	C	N1-C1'-C2'	-5.21	104.18	112.00
85	A5	1606	U	C1'-C2'-O2'	5.21	116.22	108.40
85	A5	2101	C	C5'-C4'-C3'	5.21	123.82	116.00
85	A5	2660	A	O4'-C1'-C2'	5.21	111.01	105.80
85	A5	3851	U	C1'-O4'-C4'	-5.21	104.69	109.90
85	A5	4651	A	C4'-C3'-C2'	-5.21	97.39	102.60
85	A5	4951	G	O4'-C1'-N9	5.21	116.32	108.50
86	A7	95	C	O4'-C1'-C2'	-5.21	102.39	107.60
19	AZ	46	ASN	N-CA-C	5.21	117.39	108.90
85	A5	5062	G	C5'-C4'-C3'	5.21	123.81	116.00
36	B2	989	C	C1'-C2'-O2'	-5.21	103.99	111.80
36	B2	1332	A	C4'-C3'-C2'	-5.21	97.39	102.60
53	CT	147	GLU	CA-C-N	5.21	125.14	119.78
53	CT	147	GLU	C-N-CA	5.21	125.14	119.78
87	A8	139	G	C1'-O4'-C4'	-5.21	104.69	109.90
87	A8	142	U	P-O5'-C5'	5.21	128.71	120.90
36	B2	1277	C	C5'-C4'-C3'	5.21	123.81	116.00
37	BC	68	U	O4'-C1'-C2'	-5.21	102.39	107.60
53	CT	52	MET	O-C-N	5.21	126.38	121.38
64	CF	100	GLY	CA-C-N	-5.21	116.39	123.10
64	CF	100	GLY	C-N-CA	-5.21	116.39	123.10
85	A5	118	C	P-O5'-C5'	-5.21	113.09	120.90
85	A5	1998	A	O4'-C4'-C3'	-5.21	98.79	104.00
86	A7	50	A	O5'-C5'-C4'	5.21	119.31	111.50
85	A5	2130	G	C5'-C4'-C3'	5.21	123.81	116.00
85	A5	2555	G	O4'-C1'-N9	5.21	116.31	108.50
14	AT	4	VAL	CA-C-O	-5.20	111.95	120.80
36	B2	74	G	P-O3'-C3'	5.20	128.00	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1404	U	N1-C1'-C2'	5.20	121.80	114.00
37	BC	38	C	O3'-P-O5'	-5.20	96.19	104.00
53	CT	127	GLN	CB-CA-C	-5.20	100.06	110.42
85	A5	511	C	O4'-C1'-C2'	-5.20	102.40	107.60
85	A5	2894	A	O4'-C1'-N9	5.20	116.31	108.50
1	Az	60	ARG	CB-CA-C	-5.20	102.97	111.50
26	AJ	89	GLU	N-CA-CB	-5.20	101.30	109.78
36	B2	866	U	C3'-C2'-C1'	-5.20	96.10	101.30
85	A5	2077	C	C3'-C2'-C1'	5.20	106.50	101.30
85	A5	4349	C	OP1-P-O3'	-5.20	92.39	108.00
28	AC	163	VAL	C-N-CD	-5.20	103.68	125.00
36	B2	368	U	C2'-C3'-O3'	5.20	117.30	109.50
36	B2	732	U	C1'-O4'-C4'	-5.20	104.70	109.90
36	B2	1734	G	C3'-C2'-C1'	5.20	106.50	101.30
52	CS	85	ASP	CA-CB-CG	-5.20	107.40	112.60
85	A5	1474	C	C1'-O4'-C4'	-5.20	104.70	109.90
85	A5	4752	U	P-O3'-C3'	-5.20	112.40	120.20
12	AR	37	GLU	N-CA-C	5.20	117.03	111.36
27	AE	172	PHE	N-CA-C	5.20	116.74	108.79
36	B2	954	U	C2'-C3'-O3'	-5.20	101.70	109.50
36	B2	1667	U	O4'-C1'-N1	5.20	116.30	108.50
37	BC	65	C	O4'-C1'-C2'	-5.20	102.40	107.60
54	CP	36	ILE	N-CA-CB	-5.20	104.72	112.67
85	A5	380	U	O4'-C1'-C2'	-5.20	100.60	105.80
85	A5	1359	G	P-O3'-C3'	5.20	128.00	120.20
85	A5	1744	U	O4'-C1'-C2'	-5.20	102.40	107.60
85	A5	2014	C	C3'-C2'-C1'	5.20	106.50	101.30
85	A5	4175	G	C3'-C2'-C1'	-5.20	96.10	101.30
85	A5	4739	C	P-O5'-C5'	-5.20	113.10	120.90
27	AE	4	GLY	CA-C-N	5.20	125.44	119.83
27	AE	4	GLY	C-N-CA	5.20	125.44	119.83
36	B2	562	U	O4'-C4'-C3'	5.20	109.20	104.00
85	A5	1478	C	O4'-C4'-C3'	5.20	109.20	104.00
1	Az	241	GLU	CA-C-N	5.20	131.59	121.41
1	Az	241	GLU	C-N-CA	5.20	131.59	121.41
36	B2	91	A	O4'-C1'-C2'	-5.20	102.40	107.60
36	B2	1218	C	C3'-C2'-C1'	5.20	106.50	101.30
51	CA	211	PHE	N-CA-C	-5.20	106.79	113.23
54	CP	128	ARG	N-CA-C	5.20	117.87	109.40
59	CZ	30	ASP	CB-CA-C	-5.20	102.17	110.79
63	CB	296	GLY	CA-C-N	-5.20	115.15	122.94
63	CB	296	GLY	C-N-CA	-5.20	115.15	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	17	A	C5'-C4'-C3'	5.20	123.79	116.00
85	A5	348	G	O4'-C4'-C3'	-5.20	100.90	106.10
85	A5	1309	C	C3'-C2'-C1'	5.20	106.50	101.30
85	A5	2113	G	C4'-C3'-O3'	-5.20	105.21	113.00
85	A5	4002	G	C4'-C3'-O3'	5.20	117.79	110.00
36	B2	908	A	C3'-C2'-O2'	5.19	118.49	110.70
56	CX	50	LYS	CA-C-N	-5.19	114.08	122.81
56	CX	50	LYS	C-N-CA	-5.19	114.08	122.81
74	CC	266	THR	N-CA-CB	5.19	119.38	110.65
85	A5	2068	C	C2'-C3'-O3'	5.19	117.29	109.50
85	A5	4920	C	O4'-C1'-C2'	-5.19	102.41	107.60
36	B2	595	U	O4'-C1'-N1	5.19	116.29	108.50
43	CV	17	SER	N-CA-C	5.19	117.62	110.35
85	A5	3962	A	O4'-C1'-C2'	5.19	110.99	105.80
19	AZ	50	PHE	N-CA-C	5.19	117.76	110.23
36	B2	294	U	C3'-C2'-C1'	5.19	106.69	101.50
36	B2	455	A	C3'-C2'-C1'	5.19	106.49	101.30
36	B2	875	A	N9-C1'-C2'	5.19	119.79	112.00
36	B2	907	G	C1'-O4'-C4'	-5.19	104.71	109.90
46	CN	79	ALA	CA-C-N	5.19	131.46	121.54
46	CN	79	ALA	C-N-CA	5.19	131.46	121.54
56	CX	64	SER	CB-CA-C	-5.19	110.61	116.63
70	Ci	4	ARG	N-CA-CB	5.19	119.26	110.49
85	A5	1498	G	O4'-C1'-C2'	-5.19	102.41	107.60
85	A5	1508	A	N9-C1'-C2'	5.19	119.78	112.00
85	A5	2574	G	C5'-C4'-C3'	-5.19	108.21	116.00
85	A5	2828	U	P-O5'-C5'	5.19	128.69	120.90
85	A5	3890	A	O4'-C1'-C2'	-5.19	102.41	107.60
85	A5	1094	G	O4'-C1'-N9	5.19	116.28	108.50
85	A5	1303	A	C1'-C2'-O2'	5.19	116.18	108.40
36	B2	498	C	O4'-C1'-C2'	-5.19	102.41	107.60
36	B2	551	U	C1'-O4'-C4'	-5.19	104.71	109.90
36	B2	1573	G	C4'-C3'-C2'	-5.19	97.41	102.60
63	CB	111	SER	CA-CB-OG	-5.19	100.72	111.10
85	A5	1286	C	O4'-C1'-C2'	-5.19	102.41	107.60
85	A5	1912	G	C1'-O4'-C4'	-5.19	104.71	109.90
85	A5	4176	C	C1'-O4'-C4'	-5.19	104.71	109.90
85	A5	4565	C	O4'-C4'-C3'	-5.19	98.81	104.00
85	A5	4977	A	O3'-P-O5'	5.19	111.78	104.00
17	AV	41	LYS	N-CA-C	5.19	117.33	108.67
36	B2	1668	U	O5'-C5'-C4'	-5.19	103.72	111.50
85	A5	1196	G	N9-C1'-C2'	5.19	119.78	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Az	73	THR	CB-CA-C	5.18	120.73	110.42
36	B2	36	U	O4'-C1'-C2'	-5.18	102.42	107.60
36	B2	730	C	P-O3'-C3'	5.18	127.98	120.20
36	B2	748	C	O4'-C1'-C2'	-5.18	102.42	107.60
54	CP	16	LYS	N-CA-C	5.18	116.17	108.86
81	CE	214	ASP	CA-CB-CG	-5.18	107.42	112.60
85	A5	220	C	C2'-C3'-O3'	5.18	121.48	113.70
85	A5	711	A	P-O5'-C5'	-5.18	113.12	120.90
85	A5	912	G	N9-C1'-C2'	5.18	119.78	112.00
85	A5	951	G	C1'-O4'-C4'	-5.18	104.72	109.90
85	A5	1380	G	O4'-C1'-C2'	5.18	112.78	107.60
85	A5	1969	G	P-O5'-C5'	-5.18	113.12	120.90
85	A5	2897	G	C5'-C4'-C3'	-5.18	108.22	116.00
85	A5	4279	A	C3'-C2'-C1'	5.18	106.69	101.50
85	A5	5017	G	N9-C1'-C2'	5.18	119.78	112.00
31	AH	67	PRO	N-CA-C	-5.18	107.38	113.86
36	B2	233	C	N1-C1'-C2'	5.18	119.77	112.00
36	B2	1651	A	C1'-O4'-C4'	5.18	115.08	109.90
36	B2	1784	G	O4'-C1'-C2'	-5.18	102.42	107.60
85	A5	2110	C	N1-C1'-C2'	5.18	121.77	114.00
85	A5	4339	A	C3'-C2'-C1'	5.18	106.48	101.30
85	A5	4371	G	P-O5'-C5'	5.18	128.67	120.90
85	A5	5055	G	C1'-O4'-C4'	-5.18	104.72	109.90
13	AP	105	VAL	N-CA-C	5.18	115.50	107.78
36	B2	939	U	O4'-C1'-N1	5.18	116.27	108.50
85	A5	1219	G	O4'-C1'-C2'	5.18	112.78	107.60
85	A5	3660	C	N1-C1'-C2'	5.18	119.77	112.00
16	AA	159	ILE	O-C-N	5.18	129.04	122.57
36	B2	1556	A	O4'-C1'-N9	5.18	115.97	108.20
85	A5	356	G	C1'-O4'-C4'	-5.18	104.72	109.90
85	A5	1598	C	O4'-C1'-C2'	-5.18	102.42	107.60
85	A5	2080	U	C1'-C2'-O2'	5.18	116.17	108.40
85	A5	4100	C	N1-C1'-C2'	5.18	119.77	112.00
85	A5	4509	U	O4'-C1'-C2'	-5.18	102.42	107.60
85	A5	4736	C	O4'-C1'-C2'	-5.18	102.42	107.60
85	A5	4986	G	O4'-C1'-N9	5.18	116.27	108.50
86	A7	69	U	O4'-C1'-N1	5.18	116.27	108.50
87	A8	99	U	N1-C1'-C2'	5.18	119.77	112.00
36	B2	209	A	C2'-C3'-O3'	-5.18	105.93	113.70
36	B2	582	U	C4'-C3'-O3'	-5.18	105.23	113.00
36	B2	1535	U	C2'-C3'-O3'	-5.18	101.73	109.50
85	A5	454	U	C3'-C2'-C1'	5.18	106.48	101.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2860	C	C3'-C2'-C1'	5.18	106.48	101.30
85	A5	3596	A	P-O3'-C3'	5.18	127.97	120.20
13	AP	37	TYR	CA-CB-CG	5.18	123.22	113.90
72	Ck	5	ILE	O-C-N	-5.18	117.59	123.18
85	A5	315	G	O5'-C5'-C4'	5.18	119.47	111.70
85	A5	1279	A	O4'-C1'-C2'	-5.18	102.42	107.60
85	A5	3607	U	P-O5'-C5'	5.18	128.67	120.90
5	AO	28	PHE	N-CA-C	5.17	117.33	108.90
14	AT	82	ARG	NE-CZ-NH2	5.17	123.86	119.20
36	B2	194	C	C3'-C2'-C1'	5.17	106.47	101.30
36	B2	309	G	O4'-C1'-N9	5.17	116.26	108.50
36	B2	544	G	C1'-O4'-C4'	5.17	115.08	109.90
36	B2	831	G	O4'-C1'-C2'	5.17	112.78	107.60
37	BC	21	G	C1'-O4'-C4'	-5.17	104.72	109.90
63	CB	3	HIS	N-CA-CB	5.17	119.23	110.49
85	A5	358	C	C3'-C2'-C1'	5.17	106.47	101.30
85	A5	1533	A	C1'-O4'-C4'	5.17	114.87	109.70
85	A5	2067	C	C3'-C2'-C1'	5.17	106.47	101.30
85	A5	2446	C	C3'-C2'-C1'	5.17	106.47	101.30
85	A5	3784	A	C1'-O4'-C4'	5.17	115.08	109.90
85	A5	4721	G	N9-C1'-C2'	5.17	119.76	112.00
36	B2	944	A	C3'-C2'-C1'	5.17	106.47	101.30
85	A5	2898	G	C1'-O4'-C4'	-5.17	104.73	109.90
87	A8	86	U	O4'-C1'-N1	5.17	116.26	108.50
21	Ab	75	GLU	CB-CA-C	-5.17	110.20	117.23
36	B2	144	U	C1'-C2'-O2'	5.17	116.16	108.40
36	B2	798	G	O5'-C5'-C4'	5.17	119.46	111.70
78	Co	3	ASN	OD1-CG-ND2	5.17	127.77	122.60
85	A5	167	C	C1'-O4'-C4'	-5.17	104.73	109.90
85	A5	1689	G	N9-C1'-C2'	5.17	119.76	112.00
85	A5	2669	C	C2'-C3'-O3'	5.17	117.26	109.50
85	A5	2767	U	C3'-C2'-C1'	-5.17	96.13	101.30
85	A5	4729	A	P-O3'-C3'	5.17	127.96	120.20
85	A5	5042	A	C3'-C2'-C1'	5.17	106.47	101.30
87	A8	34	U	C1'-C2'-O2'	-5.17	104.04	111.80
87	A8	103	A	C3'-C2'-C1'	5.17	106.47	101.30
36	B2	1751	C	C1'-O4'-C4'	-5.17	104.73	109.90
64	CF	46	ARG	NE-CZ-NH2	5.17	123.85	119.20
85	A5	4937	C	C5'-C4'-C3'	-5.17	108.25	116.00
36	B2	675	U	O4'-C1'-N1	5.17	116.25	108.50
36	B2	1028	A	O5'-C5'-C4'	-5.17	103.75	111.50
36	B2	1418	C	C2'-C3'-O3'	5.17	117.25	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1824	A	C1'-C2'-O2'	5.17	116.15	108.40
44	CM	4	ARG	O-C-N	5.17	129.46	122.59
82	CG	35	ARG	N-CA-C	5.17	117.42	110.29
85	A5	3736	A	C5'-C4'-O4'	5.17	117.55	109.80
12	AR	2	GLY	CA-C-N	5.17	131.80	123.33
12	AR	2	GLY	C-N-CA	5.17	131.80	123.33
36	B2	78	C	O4'-C1'-C2'	-5.17	100.63	105.80
81	CE	199	THR	N-CA-C	-5.17	102.55	110.30
85	A5	11	G	C1'-O4'-C4'	-5.17	104.73	109.90
85	A5	105	A	C1'-O4'-C4'	-5.17	104.73	109.90
85	A5	751	G	C4'-C3'-O3'	-5.17	105.25	113.00
85	A5	1662	C	N1-C1'-C2'	5.17	119.75	112.00
85	A5	1955	G	O4'-C1'-N9	5.17	116.25	108.50
36	B2	543	C	N1-C1'-C2'	5.17	119.75	112.00
36	B2	1620	A	C2'-C3'-O3'	5.17	117.25	109.50
40	CK	13	VAL	N-CA-C	5.17	116.02	108.53
85	A5	146	G	O4'-C1'-C2'	5.17	112.77	107.60
85	A5	2526	C	C1'-O4'-C4'	5.17	115.06	109.90
85	A5	4164	C	O3'-P-O5'	5.17	111.75	104.00
1	Az	307	PHE	CA-CB-CG	-5.16	108.64	113.80
36	B2	213	G	O4'-C1'-C2'	-5.16	102.44	107.60
36	B2	217	A	O4'-C1'-C2'	-5.16	102.44	107.60
36	B2	1124	C	N1-C1'-C2'	5.16	119.75	112.00
36	B2	1698	C	P-O3'-C3'	5.16	127.94	120.20
50	CR	71	ARG	N-CA-C	-5.16	106.49	112.89
81	CE	278	THR	O-C-N	-5.16	115.72	122.59
85	A5	39	A	O4'-C1'-C2'	5.16	110.96	105.80
85	A5	1208	G	N9-C1'-C2'	5.16	119.75	112.00
85	A5	2809	G	C1'-O4'-C4'	-5.16	104.74	109.90
85	A5	4206	C	C1'-O4'-C4'	-5.16	104.74	109.90
85	A5	4887	C	C1'-O4'-C4'	-5.16	104.74	109.90
85	A5	4932	U	O4'-C1'-N1	5.16	116.24	108.50
86	A7	19	C	O4'-C1'-C2'	-5.16	102.44	107.60
36	B2	209	A	C4'-C3'-O3'	5.16	120.74	113.00
36	B2	1270	G	O4'-C1'-C2'	-5.16	102.44	107.60
36	B2	1560	U	C4'-C3'-C2'	-5.16	97.44	102.60
85	A5	938	C	O4'-C1'-N1	5.16	115.94	108.20
85	A5	2095	A	C4'-C3'-O3'	-5.16	105.26	113.00
85	A5	2740	U	O4'-C1'-N1	5.16	115.94	108.20
24	Ae	20	ALA	N-CA-C	-5.16	103.53	110.24
36	B2	591	U	N1-C1'-C2'	5.16	121.74	114.00
63	CB	16	PHE	CA-C-N	-5.16	109.21	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
63	CB	16	PHE	C-N-CA	-5.16	109.21	121.80
85	A5	3670	C	C3'-C2'-C1'	5.16	106.46	101.30
85	A5	3887	C	C1'-O4'-C4'	-5.16	104.74	109.90
85	A5	4169	G	C1'-O4'-C4'	-5.16	104.74	109.90
12	AR	31	ASN	N-CA-C	-5.16	105.78	111.71
36	B2	359	U	O4'-C1'-N1	5.16	116.24	108.50
36	B2	1209	A	N9-C1'-C2'	-5.16	104.26	112.00
36	B2	1408	U	O3'-P-O5'	5.16	111.74	104.00
36	B2	1418	C	C5'-C4'-C3'	5.16	122.94	115.20
85	A5	1168	G	O3'-P-O5'	-5.16	96.26	104.00
85	A5	1977	C	O4'-C1'-C2'	-5.16	102.44	107.60
85	A5	3943	A	N9-C1'-C2'	-5.16	104.26	112.00
85	A5	4967	A	O4'-C1'-C2'	-5.16	102.44	107.60
87	A8	151	G	P-O5'-C5'	-5.16	113.16	120.90
4	AK	37	ASP	N-CA-C	-5.16	99.81	110.80
68	Cf	4	ARG	N-CA-C	-5.16	99.82	110.80
85	A5	2089	G	O4'-C4'-C3'	-5.16	98.84	104.00
85	A5	4058	U	C1'-O4'-C4'	5.16	115.06	109.90
85	A5	4232	U	C4'-C3'-O3'	5.16	117.14	109.40
85	A5	4647	G	C3'-C2'-C1'	5.16	106.46	101.30
36	B2	26	U	P-O5'-C5'	5.16	128.63	120.90
36	B2	1333	U	N1-C1'-C2'	-5.16	104.27	112.00
39	Cq	55	MET	O-C-N	5.16	129.75	123.10
59	CZ	36	ARG	N-CA-C	-5.16	98.42	109.81
85	A5	464	G	C1'-O4'-C4'	-5.16	104.75	109.90
85	A5	1267	C	C4'-C3'-O3'	5.16	117.14	109.40
85	A5	3609	G	O4'-C1'-C2'	5.16	112.76	107.60
85	A5	4121	G	C2'-C3'-O3'	5.16	117.23	109.50
85	A5	4347	G	N9-C1'-C2'	5.16	119.73	112.00
85	A5	4457	U	O4'-C1'-N1	5.16	116.23	108.50
86	A7	60	G	P-O5'-C5'	-5.16	113.17	120.90
4	AK	92	ALA	CA-C-N	5.15	129.72	122.09
4	AK	92	ALA	C-N-CA	5.15	129.72	122.09
36	B2	1172	U	O4'-C1'-C2'	-5.15	102.45	107.60
47	CI	204	GLY	O-C-N	5.15	126.92	121.77
85	A5	2000	G	O3'-P-O5'	-5.15	96.27	104.00
8	AS	82	TRP	O-C-N	5.15	129.09	122.39
28	AC	242	ASP	CA-CB-CG	-5.15	107.45	112.60
36	B2	216	C	O4'-C1'-C2'	-5.15	102.45	107.60
69	Cg	80	GLY	N-CA-C	-5.15	100.97	113.18
81	CE	279	ASN	CA-C-N	5.15	126.58	120.14
81	CE	279	ASN	C-N-CA	5.15	126.58	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	697	G	C1'-O4'-C4'	-5.15	104.75	109.90
85	A5	1335	G	C1'-C2'-O2'	5.15	116.13	108.40
86	A7	82	G	C1'-O4'-C4'	-5.15	104.75	109.90
87	A8	85	U	C2'-C3'-O3'	5.15	121.43	113.70
19	AZ	104	ARG	CB-CA-C	-5.15	100.17	110.42
36	B2	1014	G	O4'-C1'-N9	5.15	116.23	108.50
36	B2	1273	C	C2'-C3'-O3'	-5.15	101.77	109.50
46	CN	99	GLN	N-CA-C	-5.15	105.67	111.28
60	Cr	40	TYR	CA-CB-CG	5.15	123.17	113.90
85	A5	194	C	N1-C1'-C2'	5.15	119.73	112.00
85	A5	1504	G	C1'-O4'-C4'	-5.15	104.75	109.90
85	A5	1729	A	O4'-C1'-N9	5.15	116.23	108.50
85	A5	2021	G	O4'-C1'-N9	5.15	116.23	108.50
85	A5	2389	A	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	2497	C	C3'-C2'-C1'	5.15	106.45	101.30
85	A5	2541	G	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	2755	A	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	4112	C	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	4235	G	C1'-O4'-C4'	-5.15	104.75	109.90
85	A5	4909	A	O4'-C1'-N9	5.15	115.92	108.20
36	B2	161	U	C2'-C3'-O3'	5.15	117.22	109.50
36	B2	1112	U	P-O5'-C5'	-5.15	113.18	120.90
85	A5	1675	C	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	3634	G	O4'-C1'-N9	5.15	116.22	108.50
85	A5	3824	A	C3'-C2'-C1'	5.15	106.45	101.30
87	A8	68	G	O4'-C1'-C2'	5.15	112.75	107.60
36	B2	773	C	P-O3'-C3'	5.15	127.92	120.20
36	B2	1287	A	O4'-C1'-C2'	-5.15	102.45	107.60
36	B2	1363	C	P-O5'-C5'	5.15	128.62	120.90
81	CE	211	HIS	N-CA-C	5.15	117.68	111.40
85	A5	220	C	C1'-O4'-C4'	-5.15	104.75	109.90
85	A5	1234	G	C1'-O4'-C4'	-5.15	104.75	109.90
85	A5	2361	G	C2'-C3'-O3'	5.15	117.22	109.50
85	A5	4364	G	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	4681	A	O4'-C1'-C2'	-5.15	102.45	107.60
36	B2	416	U	O4'-C1'-C2'	-5.15	102.45	107.60
36	B2	635	G	P-O5'-C5'	-5.15	113.18	120.90
36	B2	740	C	O4'-C1'-C2'	-5.15	102.45	107.60
85	A5	250	C	O3'-P-O5'	5.15	111.72	104.00
85	A5	487	G	C1'-O4'-C4'	-5.15	104.75	109.90
85	A5	4067	U	C4'-C3'-C2'	-5.15	97.45	102.60
36	B2	8	U	O4'-C1'-C2'	-5.14	100.66	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	731	G	C5'-C4'-O4'	-5.14	102.08	109.80
36	B2	1369	A	N9-C1'-C2'	5.14	119.72	112.00
36	B2	1374	C	O4'-C1'-C2'	-5.14	102.45	107.60
36	B2	1477	U	C2'-C3'-O3'	5.14	121.42	113.70
45	Ca	57	GLY	N-CA-C	5.14	118.78	112.14
52	CS	152	PHE	N-CA-C	-5.14	98.44	109.81
85	A5	1409	C	P-O3'-C3'	5.14	127.92	120.20
16	AA	98	PRO	CB-CA-C	-5.14	103.08	111.56
25	Af	84	SER	CA-C-N	5.14	131.36	121.54
25	Af	84	SER	C-N-CA	5.14	131.36	121.54
27	AE	260	GLN	N-CA-C	-5.14	99.85	110.80
85	A5	315	G	N9-C1'-C2'	5.14	121.71	114.00
85	A5	451	C	O4'-C1'-C2'	-5.14	102.46	107.60
85	A5	735	G	N9-C1'-C2'	5.14	119.72	112.00
85	A5	929	A	O4'-C1'-C2'	-5.14	102.46	107.60
85	A5	956	A	C3'-C2'-C1'	5.14	106.64	101.50
85	A5	1211	G	O4'-C4'-C3'	-5.14	98.86	104.00
85	A5	1259	G	O4'-C1'-N9	5.14	116.21	108.50
85	A5	2458	C	C1'-C2'-O2'	5.14	116.11	108.40
85	A5	3628	G	O4'-C4'-C3'	-5.14	98.86	104.00
85	A5	4659	G	C1'-O4'-C4'	-5.14	104.76	109.90
85	A5	4723	A	C3'-C2'-C1'	5.14	106.44	101.30
11	AL	26	GLY	CA-C-N	5.14	130.96	121.70
11	AL	26	GLY	C-N-CA	5.14	130.96	121.70
39	Cq	62	ARG	CA-C-N	5.14	131.36	121.54
39	Cq	62	ARG	C-N-CA	5.14	131.36	121.54
81	CE	32	LEU	O-C-N	-5.14	115.77	122.09
85	A5	1365	C	O4'-C4'-C3'	-5.14	98.86	104.00
17	AV	23	ILE	CA-C-N	-5.14	115.74	122.37
17	AV	23	ILE	C-N-CA	-5.14	115.74	122.37
27	AE	204	SER	N-CA-C	5.14	116.22	108.46
36	B2	1500	G	C1'-O4'-C4'	-5.14	104.76	109.90
37	BC	17	G	N9-C1'-C2'	5.14	121.71	114.00
37	BC	20	A	C1'-O4'-C4'	5.14	114.84	109.70
60	Cr	108	MET	CB-CG-SD	5.14	128.12	112.70
68	Cf	71	TRP	N-CA-CB	-5.14	102.25	110.63
85	A5	21	G	C5'-C4'-C3'	5.14	123.71	116.00
85	A5	202	C	O4'-C1'-C2'	-5.14	102.46	107.60
85	A5	515	C	N1-C1'-C2'	5.14	119.71	112.00
85	A5	1656	U	C1'-C2'-O2'	5.14	116.11	108.40
85	A5	1739	G	O4'-C1'-N9	5.14	116.21	108.50
85	A5	2724	G	P-O3'-C3'	5.14	127.91	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4310	A	O4'-C1'-N9	5.14	116.21	108.50
36	B2	331	C	O4'-C1'-N1	5.14	115.91	108.20
36	B2	799	U	O4'-C1'-N1	5.14	116.21	108.50
36	B2	1280	G	O4'-C1'-N9	5.14	116.21	108.50
85	A5	461	G	O4'-C1'-N9	5.14	116.21	108.50
85	A5	688	U	C1'-C2'-O2'	5.14	116.11	108.40
85	A5	2710	C	P-O3'-C3'	5.14	127.91	120.20
87	A8	48	A	O4'-C1'-N9	5.14	115.91	108.20
23	AD	193	ASP	C-N-CD	5.14	146.06	125.00
36	B2	1398	G	P-O3'-C3'	-5.14	112.50	120.20
36	B2	1443	C	O4'-C1'-C2'	-5.14	102.46	107.60
36	B2	1653	U	N1-C1'-C2'	-5.14	104.30	112.00
85	A5	1071	C	C1'-C2'-O2'	-5.14	104.10	111.80
85	A5	1685	G	C3'-C2'-C1'	5.14	106.44	101.30
85	A5	2570	U	C4'-C3'-C2'	-5.14	97.46	102.60
85	A5	3855	C	C5'-C4'-C3'	-5.14	108.30	116.00
85	A5	4298	A	C3'-C2'-C1'	5.14	106.44	101.30
36	B2	14	C	P-O5'-C5'	-5.13	113.20	120.90
36	B2	32	U	O4'-C1'-C2'	-5.13	102.47	107.60
36	B2	453	C	C5'-C4'-C3'	-5.13	108.30	116.00
36	B2	1539	U	C1'-O4'-C4'	5.13	115.03	109.90
59	CZ	52	LYS	CB-CA-C	-5.13	102.34	110.81
68	Cf	64	PRO	N-CA-C	5.13	123.05	112.47
85	A5	128	C	O4'-C1'-C2'	-5.13	102.47	107.60
85	A5	430	G	C3'-C2'-C1'	-5.13	96.17	101.30
85	A5	712	C	C1'-C2'-O2'	5.13	116.10	108.40
85	A5	5067	U	C5'-C4'-C3'	5.13	123.70	116.00
85	A5	4437	U	O4'-C1'-N1	5.13	116.20	108.50
86	A7	18	C	N1-C1'-C2'	5.13	119.70	112.00
14	AT	71	GLY	N-CA-C	5.13	118.63	111.14
36	B2	82	G	C1'-O4'-C4'	5.13	115.03	109.90
36	B2	208	G	C1'-O4'-C4'	-5.13	104.77	109.90
36	B2	883	U	O4'-C1'-C2'	-5.13	102.47	107.60
36	B2	1231	C	C3'-C2'-C1'	5.13	106.43	101.30
36	B2	1510	G	C4'-C3'-O3'	-5.13	105.30	113.00
38	Cz	145	VAL	N-CA-C	-5.13	105.41	111.00
57	CY	92	GLY	CA-C-N	5.13	128.16	120.87
57	CY	92	GLY	C-N-CA	5.13	128.16	120.87
85	A5	980	U	C2'-C3'-O3'	5.13	121.40	113.70
85	A5	1446	C	N1-C1'-C2'	5.13	119.70	112.00
85	A5	1669	A	O4'-C1'-C2'	-5.13	102.47	107.60
85	A5	1947	U	O4'-C1'-N1	5.13	115.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2528	G	C1'-O4'-C4'	-5.13	104.77	109.90
85	A5	3907	G	C2'-C3'-O3'	5.13	117.20	109.50
85	A5	3912	U	O4'-C1'-N1	5.13	116.20	108.50
85	A5	4884	G	C2'-C3'-O3'	5.13	117.20	109.50
36	B2	1476	A	C1'-C2'-O2'	5.13	116.09	108.40
38	Cz	142	GLU	N-CA-C	-5.13	106.18	112.90
85	A5	1143	G	C5'-C4'-C3'	5.13	122.59	114.90
36	B2	1525	C	N1-C1'-C2'	5.13	119.69	112.00
36	B2	1786	U	O4'-C1'-C2'	-5.13	102.47	107.60
67	Ce	90	MET	CA-C-N	-5.13	114.47	122.73
67	Ce	90	MET	C-N-CA	-5.13	114.47	122.73
81	CE	144	ILE	CA-CB-CG1	-5.13	101.68	110.40
85	A5	1191	C	P-O5'-C5'	-5.13	113.21	120.90
85	A5	1336	G	N9-C1'-C2'	5.13	119.69	112.00
85	A5	1835	G	O4'-C1'-C2'	-5.13	102.47	107.60
85	A5	2626	U	O4'-C1'-N1	5.13	116.19	108.50
2	Ag	274	VAL	N-CA-CB	-5.13	104.40	111.99
7	AM	52	GLN	CB-CA-C	-5.13	109.00	116.53
8	AS	9	PHE	CA-C-O	-5.13	115.62	120.90
36	B2	605	A	O5'-C5'-C4'	5.13	119.19	111.50
36	B2	1607	A	N9-C1'-C2'	5.13	119.69	112.00
52	CS	146	HIS	CA-C-O	5.13	127.84	120.51
85	A5	157	U	O4'-C1'-N1	5.13	115.89	108.20
85	A5	397	G	O4'-C1'-C2'	-5.13	102.47	107.60
85	A5	1328	G	N9-C1'-C2'	5.13	119.69	112.00
85	A5	2066	C	O4'-C1'-C2'	-5.13	102.47	107.60
1	Az	123	ASP	CA-CB-CG	-5.12	107.47	112.60
36	B2	1518	C	O4'-C4'-C3'	-5.12	98.88	104.00
1	Az	225	LEU	O-C-N	5.12	128.21	122.22
36	B2	379	C	P-O3'-C3'	5.12	127.89	120.20
36	B2	1054	G	C1'-O4'-C4'	-5.12	104.78	109.90
44	CM	15	VAL	N-CA-C	5.12	115.60	108.84
69	Cg	75	SER	CA-C-N	-5.12	111.75	121.54
69	Cg	75	SER	C-N-CA	-5.12	111.75	121.54
85	A5	1923	A	C4'-C3'-C2'	-5.12	97.48	102.60
85	A5	2319	C	O4'-C1'-C2'	-5.12	102.48	107.60
85	A5	2856	C	P-O5'-C5'	5.12	128.59	120.90
85	A5	4368	G	N9-C1'-C2'	5.12	119.69	112.00
87	A8	55	U	O4'-C1'-N1	5.12	116.19	108.50
15	AB	152	LYS	CB-CA-C	5.12	120.50	110.67
17	AV	17	CYS	O-C-N	5.12	129.40	122.59
36	B2	580	U	O3'-P-O5'	5.12	111.68	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1289	U	O3'-P-O5'	-5.12	96.32	104.00
36	B2	1336	C	O4'-C1'-C2'	-5.12	102.48	107.60
85	A5	186	G	C2'-C3'-O3'	5.12	117.18	109.50
85	A5	200	U	N1-C1'-C2'	5.12	119.68	112.00
85	A5	1663	C	O4'-C1'-C2'	-5.12	102.48	107.60
85	A5	3678	G	O4'-C1'-C2'	-5.12	100.68	105.80
85	A5	3687	A	O4'-C1'-C2'	-5.12	102.48	107.60
85	A5	4198	G	N9-C1'-C2'	5.12	119.68	112.00
85	A5	4414	A	N9-C1'-C2'	-5.12	106.32	114.00
85	A5	4464	A	O4'-C1'-C2'	5.12	110.92	105.80
85	A5	5055	G	C1'-C2'-O2'	5.12	116.08	108.40
3	AU	28	ASN	CA-C-N	5.12	131.19	121.97
3	AU	28	ASN	C-N-CA	5.12	131.19	121.97
63	CB	376	HIS	O-C-N	5.12	129.43	122.57
85	A5	923	C	C1'-C2'-O2'	5.12	116.08	108.40
85	A5	1932	A	N9-C1'-C2'	5.12	119.68	112.00
85	A5	4401	G	C1'-O4'-C4'	-5.12	104.78	109.90
85	A5	4601	U	O4'-C1'-N1	5.12	116.18	108.50
85	A5	413	G	P-O3'-C3'	5.12	127.88	120.20
85	A5	422	C	C1'-O4'-C4'	-5.12	104.78	109.90
85	A5	1176	C	N1-C1'-C2'	5.12	119.68	112.00
85	A5	1401	C	N1-C1'-C2'	-5.12	104.32	112.00
85	A5	4870	G	C2'-C3'-O3'	5.12	117.18	109.50
37	BC	51	G	C1'-C2'-O2'	5.12	116.08	108.40
60	Cr	67	ARG	N-CA-CB	5.12	119.14	110.49
85	A5	1360	G	C1'-C2'-O2'	5.12	116.08	108.40
1	Az	710	HIS	CA-C-N	5.12	127.14	120.28
1	Az	710	HIS	C-N-CA	5.12	127.14	120.28
36	B2	1	U	O4'-C4'-C3'	-5.12	100.98	106.10
36	B2	1097	G	C5'-C4'-O4'	5.12	117.47	109.80
36	B2	1245	G	P-O5'-C5'	5.12	128.57	120.90
36	B2	1678	A	C3'-C2'-C1'	-5.12	96.18	101.30
36	B2	1700	C	N1-C1'-C2'	-5.12	106.33	114.00
37	BC	5	G	O4'-C1'-N9	5.12	116.17	108.50
85	A5	3688	U	P-O5'-C5'	5.12	128.57	120.90
85	A5	4209	G	O4'-C1'-N9	5.12	116.17	108.50
85	A5	5013	C	C1'-C2'-O2'	-5.12	104.13	111.80
36	B2	322	C	P-O3'-C3'	5.11	127.87	120.20
36	B2	793	G	O3'-P-O5'	5.11	111.67	104.00
36	B2	798	G	C3'-C2'-C1'	5.11	106.61	101.50
36	B2	1290	G	C4'-C3'-O3'	-5.11	105.33	113.00
85	A5	1397	A	N9-C1'-C2'	-5.11	104.33	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1519	C	C3'-C2'-C1'	5.11	106.41	101.30
85	A5	2525	U	O4'-C1'-C2'	-5.11	102.49	107.60
85	A5	1729	A	N9-C1'-C2'	-5.11	104.33	112.00
85	A5	2592	U	O4'-C1'-C2'	5.11	112.71	107.60
85	A5	4536	C	O4'-C1'-C2'	-5.11	102.49	107.60
85	A5	4996	C	C1'-O4'-C4'	-5.11	104.79	109.90
18	AY	63	HIS	N-CA-C	5.11	121.69	110.80
36	B2	1409	A	C1'-O4'-C4'	5.11	115.01	109.90
36	B2	1411	G	P-O5'-C5'	5.11	128.56	120.90
36	B2	1588	A	N9-C1'-C2'	5.11	119.67	112.00
36	B2	1663	A	C3'-C2'-C1'	5.11	106.41	101.30
44	CM	3	PHE	N-CA-CB	-5.11	101.85	110.49
85	A5	1301	C	P-O5'-C5'	5.11	128.56	120.90
85	A5	1788	A	N9-C1'-C2'	-5.11	104.33	112.00
85	A5	2601	A	C3'-C2'-C1'	5.11	106.61	101.50
85	A5	3714	G	O4'-C1'-C2'	5.11	112.71	107.60
85	A5	3820	G	O4'-C1'-N9	5.11	116.17	108.50
85	A5	4136	G	C4'-C3'-C2'	-5.11	97.49	102.60
36	B2	1250	A	O4'-C1'-C2'	-5.11	100.69	105.80
85	A5	1312	A	N9-C1'-C2'	-5.11	104.34	112.00
85	A5	2256	C	O4'-C4'-C3'	-5.11	98.89	104.00
85	A5	4518	A	O4'-C1'-C2'	-5.11	100.69	105.80
12	AR	23	ARG	N-CA-C	5.11	116.93	111.36
36	B2	1539	U	C3'-C2'-C1'	5.11	106.41	101.30
40	CK	99	LYS	CA-C-N	-5.11	112.70	122.61
40	CK	99	LYS	C-N-CA	-5.11	112.70	122.61
85	A5	63	G	N9-C1'-C2'	5.11	119.66	112.00
85	A5	1199	G	C5'-C4'-C3'	5.11	123.66	116.00
85	A5	1326	A	C1'-O4'-C4'	5.11	115.01	109.90
85	A5	1573	G	P-O3'-C3'	5.11	127.86	120.20
85	A5	1684	A	C1'-O4'-C4'	-5.11	104.79	109.90
85	A5	1975	G	C4'-C3'-O3'	5.11	117.06	109.40
85	A5	2003	G	N9-C1'-C2'	5.11	121.66	114.00
85	A5	2469	C	O4'-C1'-N1	5.11	116.16	108.50
85	A5	4058	U	O4'-C4'-C3'	-5.11	98.89	104.00
36	B2	1255	G	C1'-C2'-O2'	5.11	116.06	108.40
36	B2	1739	C	N1-C1'-C2'	5.11	119.66	112.00
85	A5	452	A	O5'-C5'-C4'	5.11	119.16	111.50
85	A5	513	U	O5'-C5'-C4'	5.11	119.16	111.50
85	A5	1597	G	O4'-C1'-N9	5.11	116.16	108.50
85	A5	1730	U	O4'-C1'-N1	5.11	116.16	108.50
85	A5	1769	G	C5'-C4'-C3'	-5.11	108.34	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1997	U	O4'-C1'-N1	5.11	116.16	108.50
85	A5	3815	G	C1'-O4'-C4'	-5.11	104.79	109.90
85	A5	4154	G	O4'-C1'-C2'	5.11	112.71	107.60
85	A5	4452	U	C5'-C4'-C3'	-5.11	107.54	115.20
86	A7	4	U	C4'-C3'-O3'	-5.11	105.34	113.00
52	CS	89	GLY	O-C-N	-5.10	118.82	123.57
74	CC	14	LYS	CA-C-O	5.10	125.85	120.54
85	A5	438	G	C4'-C3'-C2'	-5.10	97.50	102.60
85	A5	1349	G	O4'-C1'-C2'	5.10	112.70	107.60
85	A5	2488	C	C3'-C2'-C1'	5.10	106.40	101.30
85	A5	2942	C	C5'-C4'-C3'	5.10	122.56	114.90
85	A5	4047	A	C3'-C2'-C1'	5.10	106.40	101.30
85	A5	4634	U	C1'-C2'-O2'	-5.10	104.14	111.80
36	B2	757	C	O4'-C4'-C3'	-5.10	98.90	104.00
36	B2	839	C	C2'-C3'-O3'	5.10	117.16	109.50
36	B2	1238	U	C5'-C4'-C3'	5.10	123.65	116.00
36	B2	1550	G	P-O3'-C3'	5.10	127.86	120.20
49	CQ	20	SER	N-CA-C	5.10	121.67	110.80
74	CC	349	LEU	O-C-N	5.10	127.60	122.09
85	A5	218	A	P-O3'-C3'	5.10	127.85	120.20
85	A5	2266	C	P-O5'-C5'	-5.10	113.25	120.90
85	A5	3847	C	C3'-C2'-C1'	5.10	106.40	101.30
85	A5	4750	G	C2'-C3'-O3'	5.10	117.15	109.50
86	A7	62	U	P-O3'-C3'	-5.10	112.55	120.20
23	AD	161	GLY	CA-C-N	5.10	126.13	120.06
23	AD	161	GLY	C-N-CA	5.10	126.13	120.06
36	B2	876	C	C3'-C2'-C1'	5.10	106.40	101.30
85	A5	903	C	N1-C1'-C2'	5.10	119.65	112.00
85	A5	1177	U	O4'-C1'-N1	5.10	116.15	108.50
85	A5	1738	A	O4'-C1'-C2'	-5.10	102.50	107.60
85	A5	2644	G	C1'-O4'-C4'	-5.10	104.80	109.90
36	B2	1445	U	P-O3'-C3'	-5.10	112.55	120.20
85	A5	3	C	C3'-C2'-C1'	5.10	106.40	101.30
85	A5	650	C	N1-C1'-C2'	5.10	119.65	112.00
85	A5	1366	G	O4'-C1'-C2'	-5.10	102.50	107.60
85	A5	1588	U	O4'-C1'-C2'	-5.10	102.50	107.60
85	A5	1906	U	C1'-O4'-C4'	-5.10	104.80	109.90
85	A5	1952	G	O4'-C1'-N9	5.10	116.15	108.50
85	A5	2895	A	O4'-C1'-N9	5.10	116.15	108.50
85	A5	4607	A	C1'-O4'-C4'	5.10	115.00	109.90
36	B2	246	C	P-O3'-C3'	5.10	127.85	120.20
36	B2	1155	U	C3'-C2'-C1'	5.10	106.60	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1259	A	C1'-C2'-O2'	5.10	116.05	108.40
36	B2	1615	U	C1'-O4'-C4'	-5.10	104.80	109.90
38	Cz	61	PRO	N-CA-CB	5.10	108.63	102.72
38	Cz	182	ASN	CA-CB-CG	-5.10	107.50	112.60
85	A5	677	G	P-O3'-C3'	5.10	127.85	120.20
85	A5	946	C	O3'-P-O5'	-5.10	96.36	104.00
85	A5	1813	U	O4'-C1'-C2'	-5.10	102.50	107.60
85	A5	3951	G	N9-C1'-C2'	5.10	119.65	112.00
28	AC	209	VAL	CB-CA-C	-5.10	108.95	114.35
36	B2	1536	G	P-O5'-C5'	5.10	128.54	120.90
42	CL	136	LYS	N-CA-C	5.10	121.66	110.80
46	CN	146	PRO	N-CA-C	-5.10	101.97	112.47
59	CZ	83	THR	CB-CA-C	-5.10	100.57	111.78
85	A5	113	A	O4'-C1'-N9	5.10	116.14	108.50
85	A5	3605	C	N1-C1'-C2'	5.10	119.64	112.00
31	AH	89	GLY	N-CA-C	-5.09	108.25	115.43
36	B2	5	U	O4'-C1'-N1	5.09	116.14	108.50
36	B2	1564	C	P-O5'-C5'	5.09	128.54	120.90
48	CD	218	ALA	CA-C-O	-5.09	115.02	120.42
85	A5	3	C	O4'-C1'-C2'	-5.09	102.51	107.60
85	A5	661	C	P-O5'-C5'	-5.09	113.26	120.90
85	A5	2098	G	C4'-C3'-O3'	-5.09	105.36	113.00
85	A5	2383	C	O4'-C1'-C2'	-5.09	100.70	105.80
87	A8	45	C	C1'-O4'-C4'	-5.09	104.81	109.90
2	Ag	187	ASN	CA-CB-CG	-5.09	107.51	112.60
36	B2	140	C	O4'-C1'-C2'	-5.09	102.51	107.60
85	A5	219	G	C2'-C3'-O3'	5.09	117.14	109.50
85	A5	2751	G	C4'-C3'-C2'	-5.09	97.51	102.60
2	Ag	143	GLN	CB-CA-C	-5.09	100.29	110.42
36	B2	1435	C	C3'-C2'-C1'	5.09	106.39	101.30
85	A5	181	C	P-O3'-C3'	5.09	127.84	120.20
85	A5	1541	C	C1'-O4'-C4'	-5.09	104.81	109.90
85	A5	1574	G	O4'-C1'-C2'	-5.09	100.71	105.80
85	A5	2126	G	O4'-C1'-N9	5.09	116.14	108.50
85	A5	2556	G	C4'-C3'-C2'	-5.09	97.51	102.60
85	A5	2813	A	O4'-C1'-N9	5.09	116.14	108.50
85	A5	3919	C	O4'-C1'-C2'	-5.09	102.51	107.60
85	A5	4200	G	O4'-C4'-C3'	-5.09	98.91	104.00
85	A5	4708	A	C5'-C4'-C3'	-5.09	108.36	116.00
12	AR	95	ILE	N-CA-C	5.09	119.93	109.34
29	AG	170	ARG	O-C-N	5.09	130.04	122.97
35	Ah	158	ILE	N-CA-C	-5.09	108.16	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	559	G	O4'-C4'-C3'	-5.09	98.91	104.00
36	B2	732	U	O4'-C1'-C2'	-5.09	102.51	107.60
36	B2	928	G	N9-C1'-C2'	5.09	119.63	112.00
36	B2	1568	C	O3'-P-O5'	5.09	111.63	104.00
36	B2	1785	C	P-O3'-C3'	5.09	127.83	120.20
36	B2	1825	A	C3'-C2'-C1'	-5.09	96.21	101.30
81	CE	27	VAL	CA-C-O	5.09	129.45	120.80
85	A5	505	G	O4'-C1'-C2'	-5.09	102.51	107.60
85	A5	1641	G	O4'-C1'-N9	-5.09	100.56	108.20
85	A5	2613	C	C1'-O4'-C4'	-5.09	104.81	109.90
85	A5	3944	G	O4'-C1'-C2'	-5.09	102.51	107.60
85	A5	4613	C	C1'-O4'-C4'	-5.09	104.81	109.90
85	A5	4622	A	O4'-C1'-N9	5.09	116.14	108.50
36	B2	61	A	O4'-C1'-C2'	-5.09	102.51	107.60
36	B2	1833	C	N1-C1'-C2'	5.09	119.63	112.00
85	A5	2593	C	C3'-C2'-C1'	5.09	106.39	101.30
6	AX	128	VAL	CB-CA-C	-5.09	105.34	110.93
15	AB	54	GLY	CA-C-O	5.09	125.65	119.65
36	B2	110	U	P-O5'-C5'	-5.09	113.27	120.90
36	B2	1599	U	C4'-C3'-O3'	-5.09	105.37	113.00
56	CX	148	ASP	N-CA-C	-5.09	105.63	111.07
74	CC	96	CYS	N-CA-C	5.09	117.91	109.46
85	A5	209	U	O4'-C1'-C2'	-5.09	100.71	105.80
85	A5	638	G	C1'-O4'-C4'	-5.09	104.81	109.90
85	A5	2005	G	P-O3'-C3'	-5.09	112.57	120.20
85	A5	4899	G	C4'-C3'-O3'	-5.09	105.37	113.00
16	AA	167	GLY	N-CA-C	5.08	125.23	113.18
36	B2	754	G	O4'-C1'-C2'	5.08	112.69	107.60
36	B2	1498	A	O4'-C1'-C2'	5.08	112.69	107.60
85	A5	4661	G	C3'-C2'-C1'	5.08	106.39	101.30
40	CK	21	GLU	CA-C-N	-5.08	116.10	121.84
40	CK	21	GLU	C-N-CA	-5.08	116.10	121.84
63	CB	356	LYS	N-CA-C	5.08	121.63	110.80
85	A5	404	U	P-O5'-C5'	-5.08	113.28	120.90
85	A5	492	U	O4'-C1'-N1	5.08	116.12	108.50
85	A5	1065	G	O4'-C1'-N9	5.08	116.12	108.50
85	A5	2836	A	N9-C1'-C2'	-5.08	104.38	112.00
4	AK	95	ARG	CA-C-N	5.08	131.24	121.54
4	AK	95	ARG	C-N-CA	5.08	131.24	121.54
36	B2	690	G	C5'-C4'-C3'	5.08	123.62	116.00
36	B2	1813	A	C1'-O4'-C4'	-5.08	104.82	109.90
66	Cd	123	ASP	N-CA-C	5.08	117.06	108.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	685	C	C1'-C2'-O2'	-5.08	104.18	111.80
86	A7	64	G	O3'-P-O5'	5.08	111.62	104.00
15	AB	62	LEU	N-CA-C	-5.08	106.42	113.18
36	B2	1483	A	N9-C1'-C2'	-5.08	104.38	112.00
36	B2	1589	A	N9-C1'-C2'	-5.08	104.38	112.00
81	CE	135	GLN	CA-C-N	5.08	130.22	122.65
81	CE	135	GLN	C-N-CA	5.08	130.22	122.65
12	AR	52	GLY	N-CA-C	5.08	118.39	112.50
85	A5	110	C	C4'-C3'-C2'	-5.08	97.52	102.60
85	A5	963	G	C4'-C3'-O3'	5.08	117.02	109.40
85	A5	2336	G	C3'-C2'-C1'	5.08	106.38	101.30
85	A5	2560	C	N1-C1'-C2'	5.08	119.62	112.00
85	A5	2747	U	C3'-C2'-C1'	5.08	106.38	101.30
85	A5	2749	C	C3'-C2'-C1'	5.08	106.38	101.30
85	A5	4178	A	N9-C1'-C2'	-5.08	104.38	112.00
87	A8	81	C	C1'-C2'-O2'	5.08	116.02	108.40
36	B2	543	C	O4'-C1'-C2'	-5.08	102.52	107.60
36	B2	841	G	C3'-C2'-O2'	5.08	118.31	110.70
85	A5	1954	U	O4'-C1'-N1	5.08	116.12	108.50
85	A5	3816	A	N9-C1'-C2'	5.08	119.61	112.00
1	Az	775	GLN	CA-C-N	5.08	131.10	121.97
1	Az	775	GLN	C-N-CA	5.08	131.10	121.97
36	B2	499	G	C1'-O4'-C4'	-5.08	104.82	109.90
36	B2	538	U	N1-C1'-C2'	5.08	119.61	112.00
36	B2	932	G	O4'-C1'-N9	5.08	116.11	108.50
36	B2	1699	A	P-O3'-C3'	-5.08	112.59	120.20
55	CU	17	GLN	N-CA-CB	5.08	119.07	110.49
85	A5	37	U	O4'-C1'-N1	5.08	116.11	108.50
85	A5	60	G	N9-C1'-C2'	5.08	119.61	112.00
85	A5	916	C	N1-C1'-C2'	5.08	119.61	112.00
85	A5	1243	C	C4'-C3'-C2'	5.08	107.67	102.60
85	A5	5024	C	O3'-P-O5'	-5.08	96.39	104.00
26	AJ	99	GLY	N-CA-C	-5.07	106.97	115.80
30	AF	152	TRP	CB-CA-C	-5.07	103.15	110.96
36	B2	79	A	C3'-C2'-O2'	-5.07	106.99	114.60
36	B2	754	G	O3'-P-O5'	5.07	111.61	104.00
36	B2	1569	A	O4'-C1'-C2'	-5.07	102.53	107.60
52	CS	51	LEU	N-CA-C	5.07	119.50	112.45
68	Cf	33	VAL	CB-CA-C	-5.07	102.55	110.52
85	A5	241	G	N9-C1'-C2'	5.07	119.61	112.00
85	A5	928	C	P-O5'-C5'	5.07	128.51	120.90
85	A5	971	U	C1'-O4'-C4'	5.07	114.97	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1785	C	C5'-C4'-C3'	-5.07	108.39	116.00
85	A5	2404	A	C3'-C2'-C1'	5.07	106.37	101.30
85	A5	2412	A	C5'-C4'-C3'	-5.07	108.39	116.00
85	A5	2557	G	N9-C1'-C2'	5.07	119.61	112.00
36	B2	210	U	C2'-C3'-O3'	-5.07	106.09	113.70
36	B2	1371	U	O4'-C1'-C2'	-5.07	100.73	105.80
85	A5	479	G	C4'-C3'-C2'	-5.07	97.53	102.60
85	A5	1330	A	C1'-O4'-C4'	-5.07	104.83	109.90
85	A5	1335	G	O4'-C1'-N9	5.07	116.11	108.50
85	A5	1732	C	N1-C1'-C2'	5.07	119.61	112.00
85	A5	3793	U	O4'-C1'-N1	5.07	116.11	108.50
85	A5	4703	U	C4'-C3'-O3'	-5.07	105.39	113.00
8	AS	100	ALA	N-CA-C	5.07	116.65	108.08
42	CL	50	PRO	N-CA-C	5.07	122.91	112.47
85	A5	111	C	C2'-C3'-O3'	5.07	117.11	109.50
85	A5	271	C	C3'-C2'-C1'	5.07	106.37	101.30
85	A5	717	U	O4'-C1'-C2'	-5.07	102.53	107.60
85	A5	1924	C	O4'-C1'-N1	5.07	116.11	108.50
85	A5	2071	A	C5'-C4'-C3'	-5.07	108.40	116.00
85	A5	3899	G	C4'-C3'-O3'	-5.07	105.39	113.00
85	A5	4427	G	C4'-C3'-O3'	-5.07	105.39	113.00
85	A5	4663	G	O4'-C1'-N9	5.07	116.11	108.50
85	A5	4717	A	N9-C1'-C2'	-5.07	104.39	112.00
36	B2	756	C	O3'-P-O5'	5.07	111.60	104.00
36	B2	1668	U	C3'-C2'-O2'	5.07	118.30	110.70
85	A5	2469	C	O3'-P-O5'	5.07	111.60	104.00
85	A5	2853	C	C1'-C2'-O2'	5.07	116.00	108.40
85	A5	3837	C	N1-C1'-C2'	5.07	119.60	112.00
13	AP	38	SER	N-CA-C	5.07	121.59	110.80
15	AB	221	PRO	CA-C-N	-5.07	115.68	122.42
15	AB	221	PRO	C-N-CA	-5.07	115.68	122.42
36	B2	371	A	P-O5'-C5'	-5.07	113.30	120.90
36	B2	1190	A	C3'-C2'-C1'	5.07	106.37	101.30
42	CL	60	ARG	CA-C-N	5.07	128.43	121.74
42	CL	60	ARG	C-N-CA	5.07	128.43	121.74
62	Cb	65	MET	CG-SD-CE	5.07	112.05	100.90
85	A5	1254	A	C1'-O4'-C4'	-5.07	104.83	109.90
85	A5	2127	C	C4'-C3'-C2'	-5.07	97.53	102.60
85	A5	3919	C	N1-C1'-C2'	5.07	119.60	112.00
85	A5	4766	C	O4'-C1'-C2'	-5.07	102.53	107.60
13	AP	30	TYR	N-CA-C	-5.07	105.88	111.71
29	AG	158	VAL	N-CA-CB	-5.07	102.87	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	552	G	O3'-P-O5'	-5.07	96.40	104.00
36	B2	1040	G	O4'-C1'-N9	5.07	116.10	108.50
36	B2	1394	G	C1'-O4'-C4'	-5.07	104.83	109.90
36	B2	1573	G	N9-C1'-C2'	5.07	119.60	112.00
36	B2	1668	U	C4'-C3'-C2'	-5.07	97.53	102.60
40	CK	81	ILE	N-CA-C	-5.07	105.60	110.72
48	CD	12	TYR	N-CA-C	-5.07	105.41	111.03
59	CZ	54	THR	N-CA-CB	-5.07	100.13	109.10
74	CC	63	SER	N-CA-C	-5.07	106.41	112.59
85	A5	1052	G	O4'-C1'-C2'	5.07	110.87	105.80
85	A5	2550	G	C3'-C2'-C1'	-5.07	96.23	101.30
85	A5	4162	C	C1'-C2'-O2'	5.07	116.00	108.40
85	A5	4931	G	C4'-C3'-C2'	-5.07	97.53	102.60
85	A5	5029	C	O4'-C1'-C2'	-5.07	102.53	107.60
87	A8	85	U	C1'-O4'-C4'	5.07	114.97	109.90
42	CL	130	LYS	C-N-CD	-5.06	104.24	125.00
85	A5	1628	C	C3'-C2'-C1'	5.06	106.36	101.30
85	A5	1815	G	O4'-C1'-N9	5.06	115.80	108.20
85	A5	1854	G	O5'-C5'-C4'	-5.06	104.10	111.70
85	A5	4936	G	P-O3'-C3'	-5.06	112.60	120.20
86	A7	13	A	N9-C1'-C2'	-5.06	106.40	114.00
13	AP	49	LEU	CA-C-O	-5.06	113.27	120.51
27	AE	117	GLU	N-CA-C	-5.06	102.01	109.86
36	B2	1465	A	P-O5'-C5'	5.06	128.50	120.90
51	CA	243	THR	N-CA-C	-5.06	100.62	108.42
85	A5	3	C	N1-C1'-C2'	5.06	119.59	112.00
85	A5	923	C	C1'-O4'-C4'	-5.06	104.84	109.90
85	A5	1407	C	N1-C1'-C2'	5.06	119.59	112.00
85	A5	2872	C	N1-C1'-C2'	5.06	119.59	112.00
85	A5	4956	A	P-O5'-C5'	-5.06	113.31	120.90
2	Ag	192	THR	N-CA-CB	5.06	119.00	111.51
36	B2	800	U	O5'-C5'-C4'	-5.06	103.91	111.50
36	B2	1356	G	C4'-C3'-O3'	-5.06	105.41	113.00
60	Cr	21	ASN	O-C-N	-5.06	115.86	122.59
85	A5	2688	G	C1'-O4'-C4'	-5.06	104.84	109.90
85	A5	4990	C	C2'-C3'-O3'	-5.06	106.11	113.70
4	AK	1	MET	CB-CA-C	-5.06	100.48	110.10
7	AM	115	GLY	O-C-N	-5.06	116.12	122.70
36	B2	814	U	O4'-C1'-N1	5.06	116.09	108.50
36	B2	1211	G	C1'-C2'-O2'	5.06	115.99	108.40
36	B2	1802	C	N1-C1'-C2'	5.06	119.59	112.00
71	Cj	63	ARG	N-CA-C	5.06	116.87	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
72	Ck	48	THR	N-CA-CB	5.06	118.09	110.30
85	A5	2459	G	C4'-C3'-O3'	-5.06	105.41	113.00
85	A5	2736	G	C3'-C2'-C1'	-5.06	96.24	101.30
87	A8	117	C	N1-C1'-C2'	5.06	119.59	112.00
3	AU	104	ILE	CB-CA-C	-5.06	103.00	111.29
12	AR	113	SER	CA-C-N	5.06	130.17	120.97
12	AR	113	SER	C-N-CA	5.06	130.17	120.97
36	B2	1352	G	C3'-C2'-C1'	-5.06	96.24	101.30
36	B2	1528	G	O5'-C5'-C4'	-5.06	103.92	111.50
52	CS	145	PHE	N-CA-C	-5.06	105.77	111.28
65	Cc	97	ILE	CA-C-N	-5.06	116.70	122.26
65	Cc	97	ILE	C-N-CA	-5.06	116.70	122.26
78	Co	13	LYS	N-CA-C	-5.06	100.25	109.56
85	A5	1344	C	C4'-C3'-O3'	-5.06	105.41	113.00
85	A5	2798	A	N9-C1'-C2'	-5.06	106.41	114.00
85	A5	4941	G	N9-C1'-C2'	-5.06	106.41	114.00
85	A5	5010	U	O4'-C1'-C2'	-5.06	102.54	107.60
36	B2	530	U	C4'-C3'-C2'	-5.06	97.54	102.60
85	A5	1083	U	O4'-C1'-C2'	-5.06	102.54	107.60
85	A5	2076	G	C1'-O4'-C4'	-5.06	104.84	109.90
85	A5	3645	U	N1-C1'-C2'	5.06	119.58	112.00
36	B2	559	G	C4'-C3'-O3'	-5.05	105.42	113.00
36	B2	652	U	O4'-C1'-C2'	-5.05	102.55	107.60
36	B2	1439	A	O4'-C1'-N9	5.05	116.08	108.50
85	A5	687	U	N1-C1'-C2'	5.05	119.58	112.00
85	A5	936	C	C2'-C3'-O3'	5.05	117.08	109.50
85	A5	2415	U	N1-C1'-C2'	5.05	119.58	112.00
85	A5	3752	C	C4'-C3'-O3'	-5.05	105.42	113.00
85	A5	3889	G	O4'-C1'-N9	5.05	115.78	108.20
28	AC	97	PHE	N-CA-C	5.05	117.68	111.82
36	B2	566	U	O4'-C1'-C2'	-5.05	102.55	107.60
36	B2	722	C	C4'-C3'-O3'	5.05	117.58	110.00
36	B2	1738	C	C3'-C2'-C1'	5.05	106.35	101.30
69	Cg	50	PRO	CB-CA-C	-5.05	103.22	111.56
85	A5	925	C	N1-C1'-C2'	5.05	119.58	112.00
85	A5	4672	A	N9-C1'-C2'	5.05	119.58	112.00
85	A5	4771	C	P-O5'-C5'	5.05	128.48	120.90
85	A5	4998	G	O4'-C1'-N9	5.05	116.08	108.50
1	Az	109	VAL	N-CA-C	5.05	119.84	109.34
36	B2	475	C	N1-C1'-C2'	5.05	119.58	112.00
36	B2	1401	A	O4'-C1'-N9	5.05	116.08	108.50
36	B2	1809	A	O4'-C1'-N9	5.05	116.08	108.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	CQ	120	ILE	N-CA-C	5.05	115.36	107.99
50	CR	42	ARG	N-CA-CB	5.05	117.55	110.12
54	CP	114	ILE	CB-CA-C	5.05	118.10	111.33
85	A5	1754	U	O5'-C5'-C4'	5.05	119.08	111.50
85	A5	2517	A	C5'-C4'-C3'	-5.05	108.42	116.00
85	A5	4472	G	O4'-C1'-N9	5.05	116.08	108.50
85	A5	4710	C	O4'-C1'-C2'	-5.05	102.55	107.60
12	AR	4	VAL	N-CA-C	5.05	114.84	107.37
13	AP	28	MET	N-CA-CB	5.05	119.02	110.49
27	AE	23	LEU	CA-C-O	-5.05	115.71	121.82
36	B2	697	G	N9-C1'-C2'	5.05	119.58	112.00
36	B2	1137	U	C5'-C4'-C3'	-5.05	108.42	116.00
36	B2	1189	A	O4'-C1'-C2'	-5.05	102.55	107.60
68	Cf	20	ASN	CA-CB-CG	-5.05	107.55	112.60
85	A5	1418	C	N1-C1'-C2'	5.05	119.57	112.00
85	A5	1666	C	O4'-C1'-C2'	-5.05	102.55	107.60
85	A5	5054	C	C1'-O4'-C4'	5.05	114.75	109.70
37	BC	27	U	O4'-C1'-C2'	-5.05	102.55	107.60
85	A5	2506	G	C5'-C4'-C3'	5.05	122.77	115.20
20	Aa	85	ARG	N-CA-C	5.05	117.29	108.76
36	B2	17	C	N1-C1'-C2'	5.05	119.57	112.00
36	B2	666	U	C4'-C3'-O3'	-5.05	105.43	113.00
37	BC	27	U	N1-C1'-C2'	-5.05	104.43	112.00
39	Cq	184	SER	N-CA-C	5.05	121.55	110.80
74	CC	80	ARG	CA-C-N	5.05	127.61	122.66
74	CC	80	ARG	C-N-CA	5.05	127.61	122.66
85	A5	1735	U	O4'-C1'-C2'	-5.05	102.55	107.60
85	A5	2907	G	O4'-C1'-N9	5.05	116.07	108.50
85	A5	4629	U	O4'-C1'-C2'	-5.05	102.55	107.60
85	A5	4723	A	O4'-C1'-C2'	-5.05	102.55	107.60
5	AO	102	GLY	O-C-N	-5.04	115.59	122.55
36	B2	1463	U	P-O3'-C3'	-5.04	112.63	120.20
85	A5	1813	U	N1-C1'-C2'	5.04	119.57	112.00
36	B2	753	C	O5'-C5'-C4'	5.04	119.06	111.50
36	B2	1122	A	C3'-C2'-C1'	5.04	106.34	101.30
36	B2	1494	U	O4'-C1'-N1	5.04	115.77	108.20
36	B2	1568	C	C1'-O4'-C4'	-5.04	104.86	109.90
85	A5	364	G	C5'-C4'-C3'	-5.04	107.64	115.20
85	A5	1199	G	C5'-C4'-O4'	-5.04	102.23	109.80
85	A5	4753	U	C2'-C3'-O3'	-5.04	106.14	113.70
85	A5	4771	C	O4'-C4'-C3'	-5.04	98.96	104.00
36	B2	1126	G	C1'-O4'-C4'	-5.04	104.86	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	CL	155	MET	N-CA-C	5.04	120.95	109.81
62	Cb	54	LEU	CB-CG-CD2	5.04	125.82	110.70
85	A5	3948	C	O4'-C1'-N1	5.04	116.06	108.50
2	Ag	299	PHE	CA-CB-CG	-5.04	108.76	113.80
25	Af	138	ARG	N-CA-C	5.04	121.54	110.80
36	B2	797	C	C4'-C3'-O3'	5.04	116.96	109.40
36	B2	974	C	C3'-C2'-C1'	5.04	106.34	101.30
36	B2	1628	C	C1'-O4'-C4'	-5.04	104.86	109.90
85	A5	4320	G	C4'-C3'-O3'	-5.04	105.44	113.00
85	A5	4344	U	O4'-C1'-N1	5.04	116.06	108.50
36	B2	398	A	O4'-C4'-C3'	-5.04	101.06	106.10
36	B2	673	G	O4'-C1'-N9	5.04	116.06	108.50
36	B2	1171	G	C3'-C2'-C1'	-5.04	96.46	101.50
36	B2	1641	A	C5'-C4'-C3'	-5.04	108.44	116.00
37	BC	40	C	O4'-C1'-C2'	-5.04	102.56	107.60
79	CJ	26	VAL	N-CA-C	5.04	115.19	110.30
81	CE	276	ALA	CA-C-N	-5.04	115.50	122.30
81	CE	276	ALA	C-N-CA	-5.04	115.50	122.30
85	A5	48	G	N9-C1'-C2'	5.04	119.56	112.00
85	A5	2239	C	C5'-C4'-C3'	5.04	122.46	114.90
85	A5	4566	U	O3'-P-O5'	-5.04	96.44	104.00
85	A5	4771	C	O4'-C1'-C2'	-5.04	102.56	107.60
4	AK	86	PRO	N-CA-CB	5.04	107.97	103.08
36	B2	579	C	O3'-P-O5'	-5.04	96.44	104.00
85	A5	2066	C	C4'-C3'-O3'	-5.04	105.44	113.00
36	B2	1154	U	C1'-C2'-O2'	5.04	119.35	111.80
85	A5	12	A	C4'-C3'-C2'	5.04	107.64	102.60
85	A5	395	A	N9-C1'-C2'	5.04	119.55	112.00
85	A5	718	C	N1-C1'-C2'	5.04	119.55	112.00
85	A5	918	G	O4'-C1'-C2'	-5.04	102.56	107.60
85	A5	1624	G	N9-C1'-C2'	5.04	121.56	114.00
85	A5	4261	C	C3'-C2'-C1'	5.04	106.33	101.30
85	A5	4463	U	O5'-C5'-C4'	-5.04	103.95	111.50
18	AY	94	HIS	ND1-CE1-NE2	5.03	113.43	108.40
25	Af	90	LYS	CA-C-O	5.03	124.72	118.43
26	AJ	49	THR	N-CA-C	-5.03	105.68	111.07
26	AJ	123	ILE	CB-CA-C	5.03	125.70	111.05
29	AG	181	THR	CA-C-O	5.03	127.06	120.16
36	B2	998	A	C1'-O4'-C4'	5.03	114.93	109.90
36	B2	1013	U	N1-C1'-C2'	5.03	119.55	112.00
36	B2	1238	U	O4'-C1'-N1	5.03	116.05	108.50
39	Cq	142	GLY	CA-C-N	5.03	131.03	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	Cq	142	GLY	C-N-CA	5.03	131.03	121.97
58	CW	82	ILE	CA-C-N	5.03	131.16	121.54
58	CW	82	ILE	C-N-CA	5.03	131.16	121.54
85	A5	186	G	O5'-C5'-C4'	-5.03	104.15	111.70
85	A5	1967	A	C1'-O4'-C4'	5.03	114.93	109.90
10	AN	133	ARG	CB-CA-C	-5.03	100.41	110.42
36	B2	1417	C	O4'-C4'-C3'	-5.03	98.97	104.00
46	CN	126	THR	N-CA-C	5.03	116.77	111.28
74	CC	141	GLY	CA-C-O	-5.03	115.69	122.33
85	A5	1227	C	P-O3'-C3'	5.03	127.75	120.20
85	A5	1828	C	C4'-C3'-O3'	-5.03	105.45	113.00
85	A5	2745	A	N9-C1'-C2'	-5.03	104.45	112.00
85	A5	3687	A	N9-C1'-C2'	-5.03	104.45	112.00
1	Az	5	THR	N-CA-C	5.03	117.66	109.86
38	Cz	71	GLN	CA-C-N	5.03	127.52	120.28
38	Cz	71	GLN	C-N-CA	5.03	127.52	120.28
52	CS	170	LYS	N-CA-C	5.03	116.84	109.24
60	Cr	111	ILE	N-CA-C	5.03	116.35	110.62
85	A5	1649	U	N1-C1'-C2'	5.03	121.55	114.00
85	A5	1902	G	C1'-O4'-C4'	-5.03	104.87	109.90
85	A5	2478	C	O4'-C1'-C2'	-5.03	102.57	107.60
41	CO	19	LEU	N-CA-C	-5.03	105.69	111.07
51	CA	33	ASP	N-CA-C	5.03	117.64	109.79
64	CF	27	GLU	CA-C-N	-5.03	114.01	120.65
64	CF	27	GLU	C-N-CA	-5.03	114.01	120.65
69	Cg	46	CYS	CB-CA-C	5.03	119.23	110.68
85	A5	3892	U	C2'-C3'-O3'	-5.03	106.16	113.70
85	A5	4216	G	C3'-C2'-C1'	5.03	106.33	101.30
36	B2	1003	U	O4'-C1'-N1	5.03	116.04	108.50
80	CH	41	ILE	N-CA-C	5.03	119.80	109.34
85	A5	285	G	C4'-C3'-O3'	-5.03	105.46	113.00
85	A5	1342	A	C3'-C2'-C1'	5.03	106.33	101.30
85	A5	1723	A	N9-C1'-C2'	5.03	119.54	112.00
85	A5	4544	A	O3'-P-O5'	5.03	111.54	104.00
87	A8	90	C	C3'-C2'-C1'	5.03	106.33	101.30
24	Ae	24	LYS	CA-C-O	5.03	127.70	120.51
36	B2	142	C	C1'-C2'-O2'	5.03	119.34	111.80
36	B2	699	C	O3'-P-O5'	5.03	111.54	104.00
40	CK	44	ASP	N-CA-C	-5.03	105.49	110.97
74	CC	268	ARG	NE-CZ-NH2	-5.03	114.68	119.20
85	A5	942	G	C1'-O4'-C4'	-5.03	104.88	109.90
85	A5	1420	A	C3'-C2'-C1'	5.03	106.53	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	1638	A	C3'-C2'-C1'	5.03	106.53	101.50
85	A5	3802	U	O4'-C1'-N1	5.03	115.74	108.20
85	A5	3931	C	C3'-C2'-C1'	5.03	106.33	101.30
85	A5	4096	C	O4'-C1'-C2'	-5.03	102.58	107.60
86	A7	108	G	P-O5'-C5'	-5.03	113.36	120.90
36	B2	1438	A	C3'-C2'-C1'	5.02	106.32	101.30
36	B2	1592	C	C1'-O4'-C4'	-5.02	104.88	109.90
85	A5	1298	C	O4'-C1'-C2'	-5.02	102.58	107.60
85	A5	2670	C	C4'-C3'-C2'	-5.02	97.58	102.60
8	AS	138	THR	O-C-N	-5.02	116.81	122.34
21	Ab	29	ASN	N-CA-C	-5.02	104.33	110.61
27	AE	151	ASP	N-CA-C	5.02	116.90	109.62
36	B2	561	A	O3'-P-O5'	5.02	111.53	104.00
36	B2	654	A	O4'-C1'-C2'	-5.02	102.58	107.60
36	B2	1326	U	O4'-C1'-C2'	5.02	110.82	105.80
36	B2	1418	C	N1-C1'-C2'	5.02	121.53	114.00
36	B2	1668	U	P-O5'-C5'	5.02	128.43	120.90
49	CQ	138	LEU	CA-C-N	5.02	130.47	122.74
49	CQ	138	LEU	C-N-CA	5.02	130.47	122.74
85	A5	1273	G	P-O5'-C5'	5.02	128.43	120.90
85	A5	1557	C	O4'-C1'-C2'	-5.02	102.58	107.60
85	A5	1925	G	O4'-C1'-N9	5.02	116.03	108.50
85	A5	2348	G	C4'-C3'-O3'	5.02	116.93	109.40
85	A5	3616	U	C2'-C3'-O3'	5.02	117.03	109.50
85	A5	4612	C	C3'-C2'-C1'	5.02	106.32	101.30
87	A8	100	U	C1'-C2'-O2'	5.02	115.93	108.40
36	B2	633	C	C3'-C2'-C1'	5.02	106.32	101.30
48	CD	123	VAL	N-CA-C	-5.02	105.53	111.00
81	CE	36	LYS	CB-CG-CD	5.02	122.85	111.30
85	A5	1980	U	O4'-C1'-N1	5.02	115.73	108.20
85	A5	2391	G	O5'-C5'-C4'	-5.02	103.97	111.50
85	A5	3733	A	O4'-C1'-N9	5.02	116.03	108.50
33	AI	169	GLY	N-CA-C	-5.02	107.89	115.32
34	AQ	116	ASP	CB-CA-C	-5.02	109.31	116.34
85	A5	1574	G	C1'-O4'-C4'	5.02	114.72	109.70
85	A5	2336	G	N9-C1'-C2'	5.02	119.53	112.00
85	A5	2826	U	C4'-C3'-C2'	-5.02	97.58	102.60
85	A5	3683	C	C1'-C2'-O2'	-5.02	104.27	111.80
85	A5	4652	G	O4'-C1'-C2'	5.02	112.62	107.60
36	B2	105	U	O4'-C1'-N1	5.02	116.03	108.50
36	B2	1661	A	C3'-C2'-C1'	-5.02	96.28	101.30
85	A5	129	C	O4'-C1'-C2'	-5.02	102.58	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	4891	G	O4'-C1'-N9	5.02	116.03	108.50
36	B2	683	G	C4'-C3'-O3'	-5.02	105.48	113.00
36	B2	1777	G	O4'-C1'-N9	5.02	116.02	108.50
44	CM	136	LEU	O-C-N	-5.02	116.80	122.12
85	A5	967	C	N1-C1'-C2'	5.02	119.53	112.00
85	A5	1459	A	C3'-C2'-C1'	5.02	106.32	101.30
85	A5	1580	C	O4'-C1'-C2'	-5.02	102.58	107.60
85	A5	2553	A	O4'-C4'-C3'	-5.02	98.98	104.00
34	AQ	146	ARG	NE-CZ-NH1	-5.01	116.48	121.50
36	B2	619	A	N9-C1'-C2'	-5.01	104.48	112.00
36	B2	1785	C	C2'-C3'-O3'	5.01	117.02	109.50
44	CM	67	SER	CA-C-N	5.01	130.12	122.65
44	CM	67	SER	C-N-CA	5.01	130.12	122.65
85	A5	2740	U	N1-C1'-C2'	5.01	121.52	114.00
85	A5	3952	A	O4'-C1'-C2'	-5.01	102.59	107.60
85	A5	4129	G	C4'-C3'-O3'	-5.01	105.48	113.00
85	A5	4464	A	N9-C1'-C2'	5.01	121.52	114.00
36	B2	1081	U	O4'-C1'-N1	5.01	116.02	108.50
50	CR	51	ILE	N-CA-C	5.01	116.57	108.85
74	CC	30	ALA	C-N-CD	-5.01	104.45	125.00
85	A5	1281	G	P-O5'-C5'	5.01	128.42	120.90
85	A5	1640	C	C1'-O4'-C4'	5.01	114.71	109.70
85	A5	4139	G	C1'-O4'-C4'	-5.01	104.89	109.90
86	A7	30	C	N1-C1'-C2'	5.01	119.52	112.00
7	AM	42	LEU	O-C-N	5.01	127.86	122.15
36	B2	842	C	N1-C1'-C2'	5.01	119.52	112.00
37	BC	59	A	P-O5'-C5'	5.01	128.42	120.90
39	Cq	81	HIS	CA-C-N	-5.01	112.95	121.97
39	Cq	81	HIS	C-N-CA	-5.01	112.95	121.97
81	CE	186	LEU	CA-C-N	5.01	131.11	121.54
81	CE	186	LEU	C-N-CA	5.01	131.11	121.54
85	A5	286	U	O4'-C1'-N1	5.01	116.02	108.50
85	A5	476	G	C1'-O4'-C4'	-5.01	104.89	109.90
85	A5	1519	C	O4'-C1'-C2'	-5.01	102.59	107.60
85	A5	1600	A	C1'-O4'-C4'	-5.01	104.89	109.90
85	A5	1982	G	C4'-C3'-O3'	-5.01	105.48	113.00
85	A5	2537	A	O4'-C1'-N9	5.01	116.02	108.50
85	A5	5058	A	O4'-C1'-N9	5.01	116.02	108.50
87	A8	81	C	O4'-C1'-C2'	5.01	112.61	107.60
6	AX	29	LYS	N-CA-C	-5.01	105.82	111.28
21	Ab	9	HIS	C-N-CD	-5.01	104.46	125.00
36	B2	1034	A	C1'-O4'-C4'	5.01	114.91	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	B2	1250	A	N9-C1'-C2'	-5.01	106.49	114.00
37	BC	7	G	C1'-O4'-C4'	5.01	114.71	109.70
48	CD	210	TYR	CA-C-N	-5.01	113.18	120.29
48	CD	210	TYR	C-N-CA	-5.01	113.18	120.29
56	CX	57	GLN	C-N-CD	-5.01	104.46	125.00
63	CB	292	LEU	N-CA-C	-5.01	100.13	110.80
81	CE	273	SER	CA-C-N	5.01	130.99	121.97
81	CE	273	SER	C-N-CA	5.01	130.99	121.97
85	A5	1064	G	C1'-O4'-C4'	-5.01	104.89	109.90
85	A5	1562	G	O4'-C1'-N9	5.01	116.02	108.50
85	A5	1681	G	C3'-C2'-C1'	-5.01	96.29	101.30
85	A5	1727	U	O4'-C1'-C2'	-5.01	102.59	107.60
85	A5	3702	A	O4'-C1'-C2'	-5.01	102.59	107.60
36	B2	351	G	O4'-C4'-C3'	-5.01	98.99	104.00
36	B2	823	U	O4'-C1'-C2'	5.01	112.61	107.60
49	CQ	84	GLY	CA-C-O	-5.01	117.08	121.04
85	A5	1268	G	P-O3'-C3'	5.01	127.71	120.20
85	A5	2251	G	C3'-C2'-C1'	5.01	106.51	101.50
36	B2	1076	G	O4'-C1'-N9	5.01	116.01	108.50
36	B2	1814	G	N9-C1'-C2'	5.01	119.51	112.00
52	CS	6	THR	N-CA-C	-5.01	103.11	110.52
82	CG	104	PRO	CA-C-N	-5.01	112.78	122.09
82	CG	104	PRO	C-N-CA	-5.01	112.78	122.09
85	A5	436	C	O4'-C1'-C2'	-5.01	102.59	107.60
85	A5	1373	A	P-O5'-C5'	5.01	128.41	120.90
85	A5	3760	A	P-O5'-C5'	-5.01	113.39	120.90
85	A5	4144	C	O4'-C1'-N1	5.01	115.71	108.20
85	A5	4754	G	C2'-C3'-O3'	-5.01	106.19	113.70
85	A5	4924	C	N1-C1'-C2'	5.01	119.51	112.00
85	A5	4946	U	C5'-C4'-C3'	-5.01	107.69	115.20
86	A7	120	U	P-O3'-C3'	5.01	127.71	120.20
1	Az	348	ASP	CA-CB-CG	-5.00	107.59	112.60
7	AM	9	GLY	CA-C-N	-5.00	115.57	122.63
7	AM	9	GLY	C-N-CA	-5.00	115.57	122.63
26	AJ	34	GLU	CA-C-N	5.00	130.95	123.24
26	AJ	34	GLU	C-N-CA	5.00	130.95	123.24
31	AH	109	ARG	CB-CA-C	-5.00	100.46	110.42
36	B2	459	C	C5'-C4'-O4'	5.00	117.31	109.80
36	B2	1119	A	O4'-C1'-N9	5.00	116.01	108.50
39	Cq	206	ILE	CA-C-O	-5.00	114.52	120.78
70	Ci	23	LYS	C-N-CD	-5.00	104.48	125.00
85	A5	1553	A	C1'-O4'-C4'	5.00	114.91	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	A5	2333	G	C5'-C4'-O4'	5.00	117.31	109.80
85	A5	2391	G	P-O5'-C5'	5.00	128.41	120.90
36	B2	740	C	O3'-P-O5'	5.00	111.50	104.00
36	B2	1338	G	C4'-C3'-C2'	-5.00	97.60	102.60
36	B2	1426	U	O4'-C1'-C2'	-5.00	102.60	107.60
40	CK	74	VAL	C-N-CD	-5.00	104.48	125.00
77	Cp	35	ALA	CA-C-N	-5.00	113.92	122.33
77	Cp	35	ALA	C-N-CA	-5.00	113.92	122.33
85	A5	136	C	O4'-C1'-N1	5.00	116.00	108.50
85	A5	257	C	O4'-C1'-C2'	-5.00	102.60	107.60
85	A5	282	C	O4'-C1'-C2'	-5.00	102.60	107.60
85	A5	316	U	C1'-C2'-O2'	-5.00	104.29	111.80
85	A5	1757	U	C2'-C3'-O3'	5.00	121.20	113.70
85	A5	2251	G	O4'-C4'-C3'	-5.00	101.10	106.10
85	A5	3855	C	O4'-C1'-N1	5.00	116.00	108.50
85	A5	4870	G	C4'-C3'-C2'	5.00	107.60	102.60
19	AZ	104	ARG	CB-CG-CD	-5.00	99.80	111.30
33	AI	61	ASP	CA-C-N	-5.00	114.74	122.69
33	AI	61	ASP	C-N-CA	-5.00	114.74	122.69
36	B2	71	G	N9-C1'-C2'	-5.00	106.50	114.00
36	B2	182	C	C3'-C2'-C1'	5.00	106.30	101.30
36	B2	1236	G	C4'-C3'-O3'	-5.00	105.50	113.00
85	A5	1640	C	O4'-C1'-N1	5.00	115.70	108.20
85	A5	2709	C	P-O5'-C5'	-5.00	113.40	120.90
85	A5	4223	C	C4'-C3'-O3'	-5.00	105.50	113.00
85	A5	4327	C	O4'-C1'-C2'	-5.00	102.60	107.60
85	A5	4439	U	O4'-C1'-N1	5.00	116.00	108.50
85	A5	4586	G	C3'-C2'-C1'	-5.00	96.30	101.30
86	A7	53	U	O4'-C1'-N1	5.00	115.70	108.20
87	A8	155	C	N1-C1'-C2'	5.00	119.50	112.00

All (42) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	Az	73	THR	CA
1	Az	854	PHE	CA
8	AS	92	ASP	CA
12	AR	3	ARG	CA
14	AT	93	SER	CA
18	AY	86	GLU	CA
26	AJ	138	ARG	CA
27	AE	171	ASP	CA

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Mol	Chain	Res	Type	Atom
28	AC	172	ASN	CA
36	B2	554	A	C1'
36	B2	798	G	C4'
36	B2	839	C	C1'
36	B2	1155	U	C1'
36	B2	1418	C	C1'
36	B2	1507	G	C1'
37	BC	17	G	C4'
38	Cz	28	PHE	CA
38	Cz	210	MET	CA
40	CK	99	LYS	CA
45	Ca	120	GLN	CA
46	CN	79	ALA	CA
48	CD	285	ALA	CA
58	CW	73	ARG	CA
58	CW	83	THR	CA
59	CZ	79	HIS	CA
61	Ch	78	TYR	CA
64	CF	98	ILE	CA
67	Ce	16	ARG	CA
81	CE	31	ASN	CA
81	CE	42	PRO	CA
81	CE	118	THR	CA
81	CE	119	GLU	CA
81	CE	127	SER	CA
82	CG	200	THR	CA
84	Cu	45	GLU	CA
85	A5	1072	C	C1'
85	A5	2097	U	C1'
85	A5	2112	G	C1'
85	A5	2126	G	C1'
85	A5	2258	C	C1'
85	A5	4626	A	C1'
85	A5	4942	C	C1'

All (587) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	AA	146	ALA	Mainchain
16	AA	185	MET	Mainchain
16	AA	192	GLU	Mainchain,Peptide
16	AA	199	PRO	Mainchain

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Mol	Chain	Res	Type	Group
16	AA	206	ASP	Mainchain,Peptide
16	AA	23	THR	Mainchain
16	AA	4	ALA	Peptide
16	AA	63	ARG	Sidechain
16	AA	97	THR	Mainchain
15	AB	146	ARG	Peptide
15	AB	56	LYS	Mainchain
15	AB	75	GLN	Peptide
15	AB	76	ASN	Peptide
28	AC	112	VAL	Mainchain,Peptide
28	AC	172	ASN	Peptide
28	AC	175	GLY	Mainchain
28	AC	256	TRP	Mainchain
28	AC	53	GLY	Mainchain
28	AC	58	LYS	Mainchain
23	AD	144	GLY	Peptide
23	AD	190	LEU	Mainchain
23	AD	3	VAL	Mainchain,Peptide
23	AD	96	LEU	Mainchain
27	AE	1	MET	Peptide
27	AE	129	ILE	Peptide
30	AF	43	GLU	Peptide
30	AF	44	LYS	Peptide
30	AF	79	HIS	Peptide
29	AG	155	GLN	Mainchain
31	AH	105	THR	Peptide
31	AH	108	SER	Peptide
31	AH	109	ARG	Sidechain
31	AH	113	LYS	Mainchain
31	AH	118	ARG	Sidechain
31	AH	16	PRO	Peptide
31	AH	17	ASP	Peptide
31	AH	190	PRO	Peptide
31	AH	193	GLN	Peptide
31	AH	53	VAL	Peptide
33	AI	123	ARG	Mainchain
33	AI	129	LEU	Mainchain
33	AI	131	PRO	Mainchain
33	AI	155	ASN	Peptide
33	AI	190	LEU	Mainchain
33	AI	2	GLY	Mainchain
33	AI	3	ILE	Peptide

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Mol	Chain	Res	Type	Group
33	AI	55	TYR	Sidechain
26	AJ	146	SER	Mainchain
26	AJ	16	PRO	Peptide
26	AJ	161	LEU	Mainchain,Peptide
26	AJ	162	ARG	Peptide
26	AJ	164	PRO	Mainchain
26	AJ	165	TYR	Peptide
26	AJ	85	GLY	Mainchain
26	AJ	90	GLY	Peptide
26	AJ	91	LYS	Mainchain
26	AJ	92	MET	Peptide
4	AK	29	MET	Peptide
4	AK	30	PRO	Peptide
4	AK	37	ASP	Peptide
4	AK	43	LEU	Peptide
4	AK	55	ARG	Sidechain
4	AK	70	TYR	Sidechain
4	AK	86	PRO	Peptide
4	AK	89	ILE	Mainchain
4	AK	90	VAL	Mainchain
4	AK	92	ALA	Peptide
4	AK	97	SER	Peptide
11	AL	147	LYS	Peptide
11	AL	149	ALA	Mainchain
11	AL	152	LYS	Mainchain
11	AL	18	GLN	Peptide
11	AL	26	GLY	Peptide
11	AL	27	GLU	Peptide
11	AL	97	ARG	Peptide
7	AM	98	GLY	Peptide
10	AN	13	GLN	Peptide
10	AN	14	SER	Peptide
10	AN	18	TYR	Peptide
10	AN	82	PRO	Peptide
5	AO	138	ASP	Peptide
13	AP	17	TYR	Sidechain,Peptide
13	AP	18	ARG	Sidechain
13	AP	27	ASP	Peptide
13	AP	36	LEU	Peptide
13	AP	37	TYR	Peptide
13	AP	38	SER	Peptide
13	AP	48	GLY	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
13	AP	50	ARG	Peptide
34	AQ	146	ARG	Sidechain
34	AQ	31	LEU	Peptide
34	AQ	43	GLU	Peptide
34	AQ	47	LEU	Peptide
12	AR	1	MET	Mainchain
12	AR	122	PRO	Peptide
12	AR	88	VAL	Mainchain,Peptide
12	AR	89	SER	Peptide
8	AS	10	GLN	Peptide
8	AS	141	ARG	Mainchain
8	AS	15	VAL	Peptide
8	AS	40	TYR	Mainchain,Sidechain
8	AS	8	LYS	Peptide
8	AS	87	GLN	Mainchain
8	AS	9	PHE	Peptide
8	AS	93	GLY	Peptide
8	AS	94	LYS	Peptide
14	AT	142	ASN	Mainchain,Peptide
14	AT	4	VAL	Mainchain,Peptide
14	AT	42	HIS	Sidechain
14	AT	82	ARG	Sidechain
3	AU	104	ILE	Mainchain
3	AU	105	SER	Mainchain
3	AU	108	PRO	Peptide
3	AU	46	LYS	Peptide
3	AU	50	VAL	Peptide
3	AU	68	THR	Peptide
3	AU	70	CYS	Mainchain
3	AU	93	SER	Mainchain
17	AV	25	GLY	Peptide
17	AV	30	ALA	Mainchain
17	AV	31	SER	Peptide
17	AV	48	GLY	Mainchain,Peptide
17	AV	49	GLN	Peptide
17	AV	61	ARG	Sidechain
17	AV	63	GLY	Mainchain
17	AV	81	LYS	Mainchain,Peptide
17	AV	9	VAL	Peptide
32	AW	2	VAL	Mainchain
32	AW	84	LYS	Peptide
6	AX	1	MET	Peptide

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Mol	Chain	Res	Type	Group
6	AX	127	ASN	Peptide
6	AX	23	HIS	Mainchain
6	AX	42	GLY	Peptide
18	AY	103	SER	Peptide
18	AY	32	LYS	Peptide
18	AY	33	ALA	Peptide
18	AY	34	THR	Peptide
18	AY	85	ASN	Peptide
18	AY	86	GLU	Mainchain
19	AZ	101	SER	Mainchain
19	AZ	104	ARG	Mainchain,Sidechain
19	AZ	41	ARG	Peptide
19	AZ	93	SER	Peptide
19	AZ	95	GLY	Peptide
20	Aa	105	GLY	Peptide
20	Aa	96	THR	Mainchain,Peptide
21	Ab	2	PRO	Mainchain
21	Ab	36	LYS	Peptide
21	Ab	37	CYS	Mainchain
24	Ae	19	VAL	Mainchain
24	Ae	20	ALA	Mainchain,Peptide
24	Ae	22	GLN	Mainchain
24	Ae	23	GLU	Peptide
25	Af	102	VAL	Peptide
25	Af	105	TYR	Peptide
25	Af	135	HIS	Mainchain
25	Af	148	TYR	Peptide
25	Af	84	SER	Peptide
25	Af	90	LYS	Peptide
2	Ag	12	LYS	Peptide
2	Ag	142	VAL	Mainchain
2	Ag	148	SER	Mainchain
2	Ag	158	PRO	Peptide
2	Ag	159	ASN	Mainchain,Peptide
2	Ag	160	SER	Peptide
2	Ag	192	THR	Peptide
2	Ag	273	GLU	Peptide
2	Ag	283	PRO	Peptide
2	Ag	47	ARG	Peptide
2	Ag	59	LEU	Mainchain
2	Ag	60	ARG	Peptide
35	Ah	143	GLU	Mainchain

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Mol	Chain	Res	Type	Group
35	Ah	161	PRO	Mainchain,Peptide
35	Ah	169	GLY	Mainchain
1	Az	102	LEU	Mainchain
1	Az	108	HIS	Peptide
1	Az	111	PHE	Sidechain
1	Az	112	SER	Mainchain,Peptide
1	Az	121	VAL	Mainchain
1	Az	123	ASP	Mainchain
1	Az	193	GLY	Mainchain
1	Az	196	GLU	Peptide
1	Az	197	SER	Peptide
1	Az	199	PRO	Peptide
1	Az	242	GLY	Mainchain,Peptide
1	Az	245	GLY	Peptide
1	Az	246	PRO	Peptide
1	Az	247	ALA	Peptide
1	Az	266	PHE	Mainchain,Peptide
1	Az	269	ALA	Mainchain
1	Az	272	LYS	Peptide
1	Az	325	SER	Peptide
1	Az	4	PHE	Peptide
1	Az	403	PRO	Peptide
1	Az	406	ASP	Peptide
1	Az	408	GLY	Peptide
1	Az	42	LYS	Mainchain
1	Az	495	ARG	Mainchain,Peptide
1	Az	540	GLU	Peptide
1	Az	55	ARG	Peptide
1	Az	573	SER	Peptide
1	Az	574	ASP	Peptide
1	Az	667	LYS	Peptide
1	Az	669	VAL	Peptide
1	Az	702	PHE	Sidechain
1	Az	775	GLN	Peptide
1	Az	807	GLN	Peptide
1	Az	827	ASN	Peptide
1	Az	847	GLY	Peptide
1	Az	854	PHE	Mainchain,Sidechain
51	CA	67	TYR	Sidechain
63	CB	110	ILE	Mainchain
63	CB	111	SER	Peptide
63	CB	113	GLU	Peptide

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Mol	Chain	Res	Type	Group
63	CB	15	GLY	Mainchain
63	CB	16	PHE	Mainchain
63	CB	248	LEU	Mainchain,Peptide
63	CB	255	GLY	Mainchain
63	CB	291	TYR	Peptide
63	CB	292	LEU	Peptide
63	CB	293	ILE	Mainchain
63	CB	298	LEU	Mainchain
63	CB	355	THR	Mainchain
63	CB	392	LEU	Peptide
63	CB	40	PRO	Peptide
63	CB	7	SER	Mainchain
63	CB	76	VAL	Mainchain
63	CB	77	THR	Peptide
74	CC	108	TRP	Mainchain,Peptide
74	CC	12	SER	Mainchain,Peptide
74	CC	150	LEU	Mainchain,Peptide
74	CC	188	ARG	Sidechain
74	CC	221	PHE	Sidechain
74	CC	262	GLU	Mainchain
74	CC	267	TRP	Mainchain
74	CC	274	LYS	Peptide
74	CC	305	PRO	Mainchain
74	CC	306	ARG	Mainchain,Peptide
74	CC	307	LYS	Mainchain
74	CC	308	LYS	Mainchain
74	CC	310	HIS	Peptide
74	CC	313	VAL	Peptide
74	CC	314	LEU	Peptide
74	CC	320	LYS	Peptide
74	CC	321	ASN	Peptide
74	CC	323	ARG	Sidechain
74	CC	337	ARG	Sidechain
74	CC	346	ASN	Mainchain
74	CC	54	VAL	Mainchain,Peptide
74	CC	84	THR	Mainchain
74	CC	85	HIS	Peptide
74	CC	88	GLY	Peptide
48	CD	170	GLY	Mainchain
48	CD	218	ALA	Peptide
48	CD	222	GLN	Peptide
48	CD	252	VAL	Peptide

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Mol	Chain	Res	Type	Group
48	CD	254	GLU	Peptide
48	CD	256	LYS	Peptide
48	CD	259	LYS	Mainchain,Peptide
48	CD	261	VAL	Peptide
48	CD	262	LYS	Peptide
48	CD	269	PRO	Peptide
48	CD	284	LYS	Peptide
48	CD	33	ARG	Sidechain
48	CD	57	ASN	Peptide
48	CD	66	TYR	Peptide
81	CE	105	ARG	Peptide
81	CE	114	ARG	Sidechain,Peptide
81	CE	115	TYR	Peptide
81	CE	117	PRO	Mainchain
81	CE	118	THR	Mainchain
81	CE	125	LEU	Peptide
81	CE	126	LEU	Mainchain,Peptide
81	CE	127	SER	Peptide
81	CE	128	HIS	Peptide
81	CE	129	GLY	Peptide
81	CE	131	LYS	Peptide
81	CE	132	PRO	Peptide
81	CE	134	SER	Mainchain
81	CE	140	LEU	Mainchain
81	CE	188	ARG	Sidechain
81	CE	223	ARG	Peptide
81	CE	224	LYS	Peptide
81	CE	225	PRO	Peptide
81	CE	229	GLU	Peptide
81	CE	27	VAL	Peptide
81	CE	30	GLY	Mainchain
81	CE	31	ASN	Peptide
81	CE	32	LEU	Mainchain
81	CE	36	LYS	Mainchain
81	CE	38	LYS	Peptide
81	CE	41	LYS	Peptide
81	CE	42	PRO	Peptide
81	CE	57	TYR	Sidechain
81	CE	59	ARG	Sidechain
81	CE	78	SER	Peptide
81	CE	80	VAL	Peptide
81	CE	84	LYS	Mainchain,Peptide

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Mol	Chain	Res	Type	Group
81	CE	93	THR	Mainchain
64	CF	20	LYS	Peptide
64	CF	22	ARG	Mainchain
64	CF	23	ARG	Mainchain
64	CF	46	ARG	Sidechain
82	CG	105	GLU	Peptide
82	CG	106	THR	Mainchain
82	CG	162	ASP	Peptide
82	CG	183	ILE	Mainchain,Peptide
82	CG	32	PHE	Mainchain
82	CG	33	GLU	Peptide
82	CG	56	LYS	Peptide
82	CG	79	ALA	Peptide
82	CG	86	ALA	Peptide
80	CH	106	GLN	Peptide
80	CH	107	GLU	Peptide
80	CH	110	SER	Peptide
80	CH	189	GLN	Peptide
80	CH	190	ALA	Peptide
80	CH	21	LYS	Peptide
80	CH	40	HIS	Mainchain
80	CH	49	GLY	Mainchain
47	CI	104	SER	Mainchain
47	CI	107	GLY	Peptide
47	CI	108	ALA	Peptide
47	CI	198	LYS	Mainchain,Peptide
47	CI	199	TYR	Peptide
47	CI	203	HIS	Mainchain
47	CI	206	LEU	Peptide
47	CI	211	VAL	Mainchain
47	CI	24	ARG	Peptide
47	CI	3	ARG	Peptide
47	CI	4	ARG	Sidechain
47	CI	5	PRO	Peptide
40	CK	10	ILE	Peptide
40	CK	114	ARG	Mainchain
40	CK	130	LYS	Mainchain
40	CK	27	ALA	Peptide
40	CK	4	LYS	Peptide
40	CK	44	ASP	Mainchain
40	CK	86	LYS	Peptide
40	CK	98	ILE	Peptide

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Mol	Chain	Res	Type	Group
42	CL	11	LYS	Peptide
42	CL	128	PRO	Mainchain,Peptide
42	CL	13	HIS	Peptide
42	CL	132	SER	Peptide
42	CL	155	MET	Mainchain
42	CL	161	TYR	Mainchain,Sidechain
42	CL	163	LYS	Mainchain
42	CL	164	GLU	Peptide
42	CL	166	ALA	Mainchain,Peptide
42	CL	4	SER	Mainchain
42	CL	45	ARG	Mainchain
42	CL	47	ALA	Peptide
42	CL	51	ALA	Peptide
42	CL	56	ARG	Sidechain
42	CL	87	HIS	Peptide
42	CL	9	VAL	Peptide
44	CM	2	VAL	Mainchain,Peptide
44	CM	3	PHE	Peptide
44	CM	6	PHE	Mainchain
44	CM	67	SER	Peptide
44	CM	68	ALA	Peptide
44	CM	72	TYR	Sidechain
44	CM	81	ASP	Peptide
46	CN	48	ALA	Peptide
46	CN	77	LYS	Mainchain
46	CN	79	ALA	Mainchain
41	CO	110	PRO	Peptide
41	CO	63	ASN	Peptide
54	CP	108	ASP	Mainchain
54	CP	63	TYR	Peptide
49	CQ	1	MET	Peptide
49	CQ	11	ARG	Mainchain,Peptide
49	CQ	12	LYS	Mainchain
49	CQ	156	PRO	Peptide
49	CQ	2	GLY	Peptide
49	CQ	38	ARG	Mainchain
49	CQ	39	THR	Peptide
49	CQ	40	ASN	Mainchain
49	CQ	6	ARG	Peptide
50	CR	143	HIS	Sidechain
50	CR	42	ARG	Mainchain
52	CS	151	LYS	Peptide

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Mol	Chain	Res	Type	Group
52	CS	152	PHE	Mainchain
52	CS	171	ARG	Peptide
52	CS	173	ASN	Mainchain
52	CS	18	PRO	Mainchain,Peptide
52	CS	35	PRO	Mainchain
52	CS	75	VAL	Peptide
52	CS	81	TRP	Mainchain
52	CS	87	ARG	Peptide
52	CS	88	SER	Peptide
52	CS	89	GLY	Peptide
53	CT	123	GLY	Mainchain
53	CT	130	ARG	Mainchain
53	CT	137	GLU	Peptide
53	CT	138	ALA	Peptide
53	CT	140	PHE	Sidechain
53	CT	141	VAL	Mainchain
53	CT	144	ASN	Peptide
53	CT	151	LEU	Peptide
53	CT	18	PRO	Peptide
53	CT	24	VAL	Peptide
53	CT	75	VAL	Mainchain
53	CT	81	LYS	Peptide
53	CT	92	ARG	Peptide
55	CU	57	GLY	Peptide
55	CU	58	GLY	Peptide
55	CU	60	VAL	Mainchain
55	CU	76	VAL	Peptide
43	CV	44	GLY	Peptide
43	CV	46	LYS	Peptide
58	CW	1	MET	Mainchain
58	CW	16	GLY	Mainchain
58	CW	22	ALA	Mainchain
58	CW	23	ARG	Peptide
58	CW	24	THR	Peptide
58	CW	25	ASP	Peptide
58	CW	32	LEU	Mainchain
58	CW	70	LYS	Peptide
58	CW	72	THR	Peptide
58	CW	73	ARG	Sidechain
58	CW	97	LYS	Peptide
56	CX	117	TYR	Mainchain
56	CX	37	LYS	Peptide

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Mol	Chain	Res	Type	Group
56	CX	38	LYS	Peptide
56	CX	53	ARG	Sidechain
56	CX	57	GLN	Peptide
57	CY	42	TYR	Mainchain
57	CY	62	TYR	Mainchain
57	CY	66	GLN	Peptide
57	CY	82	ILE	Mainchain
57	CY	84	ARG	Peptide
57	CY	97	VAL	Mainchain
59	CZ	101	PHE	Sidechain
59	CZ	34	SER	Peptide
59	CZ	35	ASP	Peptide
59	CZ	55	ALA	Peptide
59	CZ	57	MET	Peptide
45	Ca	105	ARG	Sidechain
45	Ca	114	LYS	Mainchain
45	Ca	115	GLY	Peptide
45	Ca	118	PRO	Peptide
45	Ca	3	SER	Mainchain,Peptide
45	Ca	51	GLY	Mainchain
45	Ca	89	ASN	Peptide
45	Ca	97	ALA	Peptide
62	Cb	19	ASN	Peptide
62	Cb	20	GLY	Peptide
62	Cb	26	SER	Peptide
65	Cc	108	MET	Mainchain,Peptide
65	Cc	92	CYS	Peptide
66	Cd	105	LEU	Mainchain
66	Cd	112	THR	Peptide
66	Cd	114	PHE	Mainchain,Peptide
66	Cd	12	LYS	Peptide
66	Cd	14	ARG	Sidechain
66	Cd	18	ASN	Peptide
66	Cd	19	GLU	Peptide
66	Cd	58	GLY	Mainchain,Peptide
67	Ce	1	MET	Peptide
67	Ce	11	LYS	Peptide
67	Ce	130	ARG	Peptide
67	Ce	16	ARG	Peptide
67	Ce	95	TYR	Sidechain
68	Cf	100	ARG	Mainchain,Sidechain
68	Cf	3	GLY	Peptide

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Mol	Chain	Res	Type	Group
68	Cf	30	ILE	Peptide
68	Cf	33	VAL	Peptide
68	Cf	34	TYR	Peptide
68	Cf	5	LEU	Peptide
68	Cf	52	LYS	Mainchain,Peptide
68	Cf	53	ALA	Peptide
68	Cf	55	ASN	Peptide
68	Cf	56	ASN	Peptide
68	Cf	57	THR	Peptide
68	Cf	6	TRP	Peptide
69	Cg	41	ALA	Mainchain
69	Cg	44	SER	Peptide
69	Cg	45	ALA	Peptide
69	Cg	77	ALA	Peptide
61	Ch	118	LYS	Mainchain
61	Ch	119	TYR	Peptide
61	Ch	121	VAL	Mainchain
61	Ch	36	VAL	Mainchain
61	Ch	38	GLY	Peptide
61	Ch	40	ALA	Peptide
61	Ch	75	GLY	Peptide
61	Ch	78	TYR	Mainchain
70	Ci	11	LEU	Peptide
70	Ci	32	ARG	Sidechain
70	Ci	4	ARG	Peptide
70	Ci	5	TYR	Peptide
70	Ci	6	PRO	Peptide
70	Ci	63	VAL	Mainchain
71	Cj	86	PRO	Peptide
72	Ck	30	ASP	Mainchain
72	Ck	62	PRO	Peptide
75	Cm	104	HIS	Mainchain
75	Cm	105	PRO	Mainchain,Peptide
75	Cm	106	ARG	Peptide
78	Co	3	ASN	Mainchain
78	Co	34	TYR	Mainchain
78	Co	72	CYS	Peptide
78	Co	76	ASN	Peptide
77	Cp	91	ASP	Peptide
39	Cq	110	ALA	Peptide
39	Cq	133	GLU	Mainchain
39	Cq	142	GLY	Peptide

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Mol	Chain	Res	Type	Group
39	Cq	148	SER	Peptide
39	Cq	155	LEU	Peptide
39	Cq	205	ASP	Peptide
39	Cq	206	ILE	Peptide
39	Cq	263	GLU	Mainchain
39	Cq	32	ALA	Mainchain
39	Cq	33	ASP	Mainchain
39	Cq	44	ARG	Sidechain
39	Cq	57	LYS	Mainchain
39	Cq	6	ARG	Peptide
39	Cq	91	THR	Mainchain
60	Cr	112	ARG	Sidechain
60	Cr	136	SER	Mainchain
60	Cr	36	ASN	Mainchain
60	Cr	40	TYR	Sidechain
60	Cr	43	LEU	Peptide
60	Cr	56	ASP	Peptide
60	Cr	60	VAL	Peptide
60	Cr	66	ARG	Sidechain,Peptide
60	Cr	72	LYS	Peptide
60	Cr	80	THR	Mainchain
60	Cr	81	THR	Mainchain,Peptide
60	Cr	82	ILE	Peptide
38	Cz	209	THR	Mainchain
38	Cz	27	LYS	Mainchain
38	Cz	28	PHE	Mainchain,Sidechain
38	Cz	98	LYS	Peptide
38	Cz	99	LEU	Mainchain

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Az	6673	0	6745	1894	0
2	Ag	2436	0	2388	699	0
3	AU	822	0	887	234	0
4	AK	827	0	853	399	0
5	AO	1016	0	1039	358	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	AX	1106	0	1177	339	0
7	AM	960	0	988	309	0
8	AS	1139	0	1188	477	0
9	Ad	445	0	441	136	0
10	AN	1208	0	1294	330	0
11	AL	1296	0	1370	420	0
12	AR	1019	0	1070	407	0
13	AP	1062	0	1121	534	0
14	AT	1101	0	1135	404	0
15	AB	1747	0	1823	506	0
16	AA	1642	0	1644	650	0
17	AV	625	0	625	278	0
18	AY	1023	0	1088	520	0
19	AZ	598	0	652	216	0
20	Aa	847	0	899	179	0
21	Ab	659	0	680	268	0
22	Ac	506	0	536	165	0
23	AD	1765	0	1858	654	0
24	Ae	468	0	514	229	0
25	Af	581	0	598	192	0
26	AJ	1498	0	1600	605	0
27	AE	2084	0	2189	553	0
28	AC	1751	0	1832	612	0
29	AG	1923	0	2086	596	0
30	AF	1509	0	1561	556	0
31	AH	1530	0	1624	506	0
32	AW	1034	0	1079	299	0
33	AI	1686	0	1772	467	0
34	AQ	1124	0	1193	511	0
35	Ah	566	0	554	279	0
36	B2	38377	0	19188	827	0
37	BC	1604	0	816	9	0
38	Cz	1741	0	1853	528	0
39	Cq	2138	0	2192	1065	0
40	CK	1238	0	1295	688	0
41	CO	1655	0	1795	554	0
42	CL	1701	0	1816	502	0
43	CV	989	0	1045	186	0
44	CM	1139	0	1209	418	0
45	Ca	1162	0	1210	350	0
46	CN	1701	0	1747	536	0
47	CI	1711	0	1746	462	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	CD	2353	0	2371	620	0
49	CQ	1521	0	1639	624	0
50	CR	1580	0	1746	376	0
51	CA	1957	0	2051	496	0
52	CS	1453	0	1485	656	0
53	CT	1298	0	1364	446	0
54	CP	1233	0	1260	308	0
55	CU	921	0	926	268	0
56	CX	994	0	1078	357	0
57	CY	1107	0	1193	354	0
58	CW	1015	0	1076	386	0
59	CZ	1107	0	1182	375	0
60	Cr	1104	0	1183	669	0
61	Ch	1023	0	1160	283	0
62	Cb	635	0	683	136	0
63	CB	3202	0	3336	1022	0
64	CF	1910	0	2046	324	0
65	Cc	776	0	812	280	0
66	Cd	931	0	979	364	0
67	Ce	1096	0	1188	367	0
68	Cf	876	0	912	252	0
69	Cg	906	0	999	355	0
70	Ci	840	0	925	253	0
71	Cj	733	0	773	121	0
72	Ck	569	0	637	128	0
73	Cl	444	0	483	72	0
74	CC	2925	0	3094	1126	0
75	Cm	429	0	469	98	0
76	Cn	240	0	289	28	0
77	Cp	703	0	755	213	0
78	Co	863	0	931	253	0
79	CJ	1349	0	1382	366	0
80	CH	1526	0	1603	438	0
81	CE	2113	0	2316	943	0
82	CG	1973	0	2123	884	0
83	Cs	426	0	436	245	0
83	Ct	426	0	436	207	0
84	Cu	419	0	433	186	0
84	Cv	419	0	433	202	0
85	A5	84946	0	41833	906	0
86	A7	2578	0	1306	58	0
87	A8	3334	0	1693	64	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	237685	0	177034	34348	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 83.

All (34348) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:16:CYS:SG	52:CS:54:MET:HE2	1.27	1.71
82:CG:136:LEU:HD21	82:CG:204:PHE:CZ	1.19	1.70
48:CD:223:PHE:CD1	48:CD:226:TYR:CE2	1.77	1.70
40:CK:123:ARG:CD	40:CK:129:ILE:HD11	1.23	1.69
70:CI:25:ARG:HG3	70:CI:28:ARG:CZ	1.24	1.68
63:CB:40:PRO:HB2	63:CB:42:HIS:CD2	1.23	1.68
2:Ag:5:MET:SD	2:Ag:312:VAL:HG22	1.20	1.68
13:AP:53:GLN:HG2	13:AP:80:LEU:CD1	1.24	1.68
45:Ca:73:VAL:CG2	45:Ca:108:TYR:CE1	1.74	1.67
45:Ca:73:VAL:HG23	45:Ca:108:TYR:CD1	1.24	1.67
1:Az:236:PHE:CE2	1:Az:273:PHE:CZ	1.79	1.67
1:Az:745:TYR:CD1	1:Az:815:ASP:HB2	1.27	1.67
9:Ad:36:LEU:HD11	23:AD:12:VAL:CG1	1.24	1.66
48:CD:51:MET:HE1	48:CD:173:ILE:CD1	1.21	1.66
53:CT:12:ARG:HG2	53:CT:13:TYR:CE2	1.25	1.66
83:Cs:11:TYR:CE2	84:Cu:12:LEU:HD11	1.16	1.66
31:AH:83:LEU:HD13	31:AH:92:VAL:CG2	1.25	1.66
10:AN:24:THR:HB	21:Ab:84:HIS:CE1	1.28	1.66
28:AC:65:LYS:HD2	28:AC:266:TYR:CE1	1.20	1.66
39:Cq:81:HIS:CD2	39:Cq:191:GLN:HG3	1.30	1.66
39:Cq:111:ALA:HB2	39:Cq:183:PHE:CD2	1.24	1.65
21:Ab:64:CYS:SG	21:Ab:73:LEU:HD23	1.11	1.65
23:AD:132:LYS:CB	23:AD:191:PRO:HG3	1.24	1.65
48:CD:20:PHE:HD2	48:CD:30:TYR:CE2	1.09	1.65
4:AK:21:MET:HE1	4:AK:49:MET:SD	1.37	1.64
14:AT:77:LYS:HG3	14:AT:92:PHE:CE2	1.13	1.64
28:AC:108:LYS:HD2	28:AC:233:LEU:CD2	1.27	1.64
59:CZ:73:LYS:HG2	59:CZ:75:TYR:CZ	1.15	1.64
83:Ct:11:TYR:CE2	84:Cv:12:LEU:HD11	1.24	1.64
29:AG:41:LEU:CD2	29:AG:45:TRP:CZ3	1.80	1.64
8:AS:120:HIS:CE1	13:AP:123:TYR:CE2	1.85	1.64
49:CQ:154:LYS:CE	49:CQ:163:THR:HG21	1.25	1.64
1:Az:751:CYS:CB	1:Az:755:VAL:HB	1.23	1.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:825:PHE:CE2	1:Az:849:PRO:HD2	1.30	1.63
34:AQ:42:ILE:HD13	34:AQ:51:LEU:CD2	1.16	1.63
13:AP:41:GLN:CG	13:AP:84:ILE:HG21	1.19	1.63
45:Ca:129:PHE:CZ	45:Ca:146:LEU:HD21	1.32	1.63
55:CU:21:PHE:CE1	55:CU:80:LYS:HE2	1.31	1.63
53:CT:81:LYS:HA	62:Cb:16:TRP:CH2	1.24	1.62
57:CY:55:VAL:CG1	57:CY:104:VAL:HG11	1.15	1.62
66:Cd:64:ILE:CD1	66:Cd:68:LEU:HD23	1.15	1.62
80:CH:109:GLY:CA	80:CH:128:MET:HB2	1.18	1.62
45:Ca:120:GLN:HG2	45:Ca:121:PRO:CD	1.27	1.62
70:Ci:58:MET:SD	70:Ci:90:LEU:HB3	1.39	1.62
30:AF:25:THR:HG21	30:AF:42:LYS:CG	1.22	1.62
69:Cg:41:ALA:CB	69:Cg:52:ARG:HD2	1.17	1.62
1:Az:753:GLU:HB3	1:Az:782:PHE:CE1	1.28	1.61
18:AY:55:ILE:HG12	18:AY:75:ILE:CG1	1.22	1.61
21:Ab:33:MET:HE3	21:Ab:79:PHE:CB	1.25	1.61
61:Ch:73:TYR:HB3	61:Ch:79:LYS:CE	1.22	1.61
34:AQ:135:PRO:HD3	34:AQ:141:TYR:CE1	1.16	1.61
40:CK:61:LYS:HE3	40:CK:72:GLU:CB	1.18	1.61
54:CP:95:LEU:HD12	54:CP:148:MET:SD	1.32	1.61
59:CZ:46:ILE:HD11	59:CZ:49:TYR:CE1	1.08	1.61
16:AA:21:ALA:CB	16:AA:173:LEU:CD1	1.77	1.61
41:CO:16:LEU:HD23	41:CO:41:ILE:CD1	1.13	1.61
44:CM:77:TRP:CA	44:CM:82:ILE:HD11	1.23	1.61
74:CC:144:ILE:HG23	74:CC:147:VAL:CG2	1.20	1.61
1:Az:481:LYS:CE	1:Az:532:PRO:HB3	1.28	1.61
3:AU:40:ILE:CD1	3:AU:53:PRO:HG3	1.20	1.60
4:AK:14:LEU:HD22	4:AK:35:LEU:CD2	1.22	1.60
82:CG:83:PHE:CE1	82:CG:159:HIS:HA	1.29	1.60
1:Az:236:PHE:HE2	1:Az:273:PHE:CZ	1.10	1.60
1:Az:613:LEU:HD22	1:Az:639:TYR:CD1	1.30	1.60
63:CB:40:PRO:CB	63:CB:42:HIS:HD2	1.10	1.60
79:CJ:163:MET:HE3	79:CJ:174:ILE:CD1	1.22	1.60
80:CH:105:ILE:CG2	80:CH:112:VAL:HA	1.14	1.60
8:AS:42:HIS:CD2	14:AT:45:LEU:HD11	1.21	1.60
13:AP:41:GLN:CG	13:AP:84:ILE:CG2	1.79	1.60
29:AG:131:ARG:CG	29:AG:131:ARG:CD	1.79	1.60
39:Cq:6:ARG:CG	39:Cq:10:LYS:HE3	1.32	1.60
44:CM:77:TRP:CD1	44:CM:82:ILE:HG13	1.31	1.60
58:CW:87:LEU:HD23	58:CW:90:ILE:CD1	1.22	1.60
10:AN:24:THR:CB	21:Ab:84:HIS:CE1	1.80	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:141:ARG:CB	33:AI:144:LYS:HB2	1.24	1.60
40:CK:61:LYS:CE	40:CK:72:GLU:HB3	1.29	1.60
70:CI:43:MET:HE1	82:CG:173:LEU:CD2	1.14	1.60
12:AR:85:VAL:CG2	16:AA:201:LEU:HB2	1.21	1.59
28:AC:108:LYS:CD	28:AC:233:LEU:CD2	1.78	1.59
80:CH:111:LEU:HD21	80:CH:127:ARG:CD	1.25	1.59
4:AK:16:PHE:CE2	4:AK:79:LEU:HB2	1.24	1.59
2:Ag:118:ARG:HH21	2:Ag:134:THR:CG2	1.12	1.59
41:CO:108:ILE:HG21	41:CO:160:ARG:CZ	1.28	1.59
81:CE:106:VAL:CG2	81:CE:107:VAL:HA	1.20	1.59
6:AX:27:TYR:CE1	6:AX:31:HIS:NE2	1.70	1.59
16:AA:30:LEU:HD13	16:AA:38:ILE:CD1	1.32	1.59
74:CC:5:ARG:HG2	74:CC:24:LEU:CG	1.24	1.59
17:AV:11:LEU:CD1	17:AV:12:TYR:HD2	1.12	1.59
49:CQ:34:PHE:CD2	74:CC:293:LEU:HD22	1.30	1.59
83:Cs:11:TYR:HB2	84:Cu:9:LEU:CD2	1.27	1.59
18:AY:78:SER:HB3	18:AY:81:TYR:CD2	1.32	1.58
28:AC:70:VAL:HG13	28:AC:97:PHE:CE2	1.35	1.58
40:CK:117:ARG:HG2	40:CK:133:LEU:CD1	1.27	1.58
41:CO:54:TYR:CE2	41:CO:145:VAL:HG11	1.32	1.58
66:Cd:21:VAL:CG1	66:Cd:23:ARG:HH21	1.09	1.58
15:AB:113:MET:HE1	15:AB:211:PHE:CE2	1.38	1.58
82:CG:77:PRO:HA	82:CG:237:TRP:CE3	1.33	1.58
16:AA:58:LEU:CD2	16:AA:178:LEU:HD23	1.28	1.58
40:CK:22:VAL:CG2	40:CK:48:LYS:HB2	1.17	1.58
64:CF:23:ARG:C	64:CF:23:ARG:CA	1.77	1.58
66:Cd:64:ILE:HD11	66:Cd:68:LEU:CD2	1.23	1.58
13:AP:41:GLN:HG2	13:AP:84:ILE:CG1	1.29	1.58
78:Co:66:ILE:CG1	78:Co:85:ILE:HB	1.31	1.57
3:AU:61:LEU:CD2	9:Ad:34:TYR:CZ	1.77	1.57
4:AK:27:VAL:CG1	4:AK:43:LEU:HD22	1.29	1.57
26:Aj:17:ARG:HG2	26:Aj:18:ARG:CD	1.33	1.57
28:AC:108:LYS:CD	28:AC:233:LEU:HD21	1.12	1.57
40:CK:97:ASN:HA	40:CK:98:ILE:CG1	1.15	1.57
8:AS:34:LYS:CB	8:AS:103:LEU:HD21	1.17	1.57
25:Af:135:HIS:HB3	25:Af:138:ARG:CG	1.22	1.57
40:CK:117:ARG:CG	40:CK:133:LEU:HD11	1.17	1.57
77:Cp:50:ARG:CD	77:Cp:54:ILE:CD1	1.80	1.57
2:Ag:12:LYS:HD2	2:Ag:13:GLY:CA	1.32	1.57
2:Ag:194:TYR:CE2	2:Ag:212:LYS:HD3	1.11	1.57
12:AR:123:THR:CG2	16:AA:44:ASP:HA	1.14	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:66:VAL:CG2	15:AB:87:ILE:HG22	1.23	1.57
40:CK:97:ASN:CA	40:CK:98:ILE:HG13	1.29	1.57
57:CY:110:LYS:CB	57:CY:115:ARG:HH12	1.00	1.57
56:CX:119:ILE:HD11	56:CX:140:LEU:CD2	1.31	1.57
63:CB:47:LEU:HD23	63:CB:166:THR:CG2	1.25	1.57
74:CC:91:ALA:HB1	74:CC:92:PHE:CE2	1.34	1.57
1:Az:56:PHE:CZ	1:Az:455:GLY:HA3	1.38	1.56
1:Az:236:PHE:CE2	1:Az:273:PHE:HZ	0.94	1.56
1:Az:745:TYR:HD1	1:Az:815:ASP:CB	1.19	1.56
13:AP:33:LEU:CD2	13:AP:87:PRO:HD3	1.20	1.56
27:AE:129:ILE:HG12	27:AE:139:LEU:CD2	1.25	1.56
29:AG:41:LEU:HD22	29:AG:45:TRP:CZ3	1.34	1.56
57:CY:55:VAL:CG1	57:CY:104:VAL:CG1	1.78	1.56
8:AS:54:LYS:CA	8:AS:54:LYS:N	1.67	1.56
17:AV:78:ILE:CA	17:AV:78:ILE:C	1.76	1.56
39:Cq:66:ARG:HD2	39:Cq:69:LEU:CD2	1.18	1.56
60:Cr:51:VAL:CG2	60:Cr:113:ARG:HB3	1.30	1.56
74:CC:133:LEU:HD23	74:CC:136:LEU:CD1	1.15	1.56
74:CC:233:SER:CA	74:CC:263:LEU:HD11	1.34	1.56
80:CH:111:LEU:CD2	80:CH:127:ARG:HD2	1.16	1.56
31:AH:146:VAL:HG21	32:AW:50:PHE:CZ	1.37	1.56
34:AQ:9:SER:CB	34:AQ:26:LYS:HG3	1.34	1.56
55:CU:21:PHE:CZ	55:CU:80:LYS:HE2	1.38	1.56
64:CF:51:TYR:CZ	81:CE:58:SER:HB2	1.09	1.56
80:CH:109:GLY:CA	80:CH:128:MET:CB	1.78	1.56
27:AE:129:ILE:CG1	27:AE:139:LEU:CD2	1.80	1.56
31:AH:40:LEU:CD2	31:AH:43:LEU:HD12	1.15	1.56
1:Az:518:PRO:CG	6:AX:50:ILE:CD1	1.78	1.56
1:Az:628:LEU:CD2	1:Az:631:ARG:HH22	1.13	1.56
17:AV:17:CYS:SG	17:AV:56:CYS:HB3	1.44	1.56
23:AD:158:ILE:CD1	23:AD:189:MET:HE1	1.31	1.56
78:Co:66:ILE:HD11	78:Co:85:ILE:CB	1.28	1.56
85:A5:1242:G:C1'	85:A5:1242:G:C2'	1.77	1.56
8:AS:54:LYS:CA	8:AS:54:LYS:C	1.75	1.55
29:AG:41:LEU:HD22	29:AG:45:TRP:CE3	1.37	1.55
78:Co:66:ILE:CD1	78:Co:85:ILE:CB	1.78	1.55
81:CE:85:LYS:CA	81:CE:85:LYS:C	1.75	1.55
81:CE:212:LEU:CD1	81:CE:216:TYR:HB2	1.15	1.55
8:AS:39:ARG:CZ	14:AT:38:LYS:CE	1.83	1.55
13:AP:4:VAL:CA	13:AP:10:ARG:HD3	1.18	1.55
44:CM:60:PHE:CZ	44:CM:85:LYS:HG3	1.39	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:206:LEU:CA	47:CI:206:LEU:CB	1.78	1.55
82:CG:159:HIS:CE1	82:CG:185:LYS:HA	1.38	1.55
82:CG:191:GLY:HA2	82:CG:199:CYS:SG	1.45	1.55
83:C _s :21:VAL:CG1	83:C _s :27:LYS:HD3	1.35	1.55
23:AD:158:ILE:CD1	23:AD:189:MET:CE	1.81	1.55
38:C _z :26:ARG:CD	38:C _z :26:ARG:NE	1.70	1.55
40:CK:94:LYS:CB	40:CK:96:LYS:HD2	1.28	1.55
51:CA:32:VAL:CG2	51:CA:163:ARG:HH12	1.05	1.55
16:AA:21:ALA:HB2	16:AA:173:LEU:CD1	1.34	1.55
41:CO:12:ARG:CD	41:CO:37:ARG:NH1	1.68	1.55
41:CO:65:ASN:CG	41:CO:68:ARG:HD2	1.29	1.55
45:Ca:120:GLN:CG	45:Ca:121:PRO:HD3	1.23	1.55
67:Ce:6:PRO:CD	67:Ce:93:LYS:HB3	1.21	1.55
77:C _p :50:ARG:HD3	77:C _p :54:ILE:CD1	1.33	1.55
54:CP:6:LEU:HD23	54:CP:116:HIS:CD2	1.35	1.55
28:AC:65:LYS:HD2	28:AC:266:TYR:CD1	1.43	1.54
40:CK:10:ILE:CG2	40:CK:66:ASN:CA	1.84	1.54
59:CZ:73:LYS:HG2	59:CZ:75:TYR:CE1	1.37	1.54
64:CF:51:TYR:CE1	81:CE:58:SER:HB2	1.40	1.54
69:C _g :41:ALA:C	69:C _g :52:ARG:HD3	1.22	1.54
78:Co:66:ILE:HG13	78:Co:85:ILE:CD1	1.35	1.54
1:Az:751:CYS:HB2	1:Az:755:VAL:CB	1.22	1.54
27:AE:70:ILE:HG12	27:AE:92:ILE:CD1	1.13	1.54
35:Ah:151:PHE:HB2	35:Ah:153:VAL:CG2	1.33	1.54
8:AS:34:LYS:HB3	8:AS:103:LEU:CD2	1.07	1.54
31:AH:144:ILE:HB	32:AW:52:ILE:CG2	1.38	1.54
34:AQ:93:VAL:CG1	34:AQ:105:LYS:HE2	1.10	1.54
59:CZ:57:MET:CE	59:CZ:61:LYS:HB2	1.31	1.54
18:AY:55:ILE:CG1	18:AY:75:ILE:HG12	1.36	1.54
9:Ad:23:VAL:CG2	9:Ad:38:MET:CE	1.81	1.54
9:Ad:36:LEU:CD1	23:AD:12:VAL:HG11	1.08	1.54
26:AJ:72:PHE:CD2	27:AE:248:ILE:CD1	1.90	1.54
26:AJ:72:PHE:CD2	27:AE:248:ILE:HD12	1.02	1.54
28:AC:65:LYS:CD	28:AC:266:TYR:CE1	1.90	1.54
33:AI:25:ARG:HD2	33:AI:27:TYR:CE2	1.42	1.54
41:CO:9:LEU:CD2	52:CS:167:PHE:CD1	1.90	1.54
54:CP:6:LEU:CD2	54:CP:116:HIS:NE2	1.70	1.54
56:CX:81:LEU:HD21	56:CX:99:ILE:CD1	1.36	1.54
65:Cc:99:PRO:HG2	65:Cc:105:ILE:CD1	1.28	1.54
80:CH:93:ARG:CD	80:CH:143:GLU:HG2	1.36	1.54
1:Az:58:ASP:HB3	1:Az:63:GLU:CG	1.37	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:19:ASN:HD21	33:AI:69:SER:CB	1.17	1.53
69:Cg:76:ARG:HH12	69:Cg:84:ALA:CB	1.14	1.53
85:A5:1240:G:C1'	85:A5:1240:G:C2'	1.75	1.53
30:AF:14:THR:HG21	34:AQ:56:LEU:CG	1.32	1.53
39:Cq:110:ALA:HB2	39:Cq:181:SER:CA	1.26	1.53
81:CE:106:VAL:HG23	81:CE:107:VAL:CA	1.36	1.53
1:Az:518:PRO:CG	6:AX:50:ILE:HD12	1.28	1.53
15:AB:71:LEU:HD13	15:AB:84:PHE:CE2	1.40	1.53
35:Ah:157:ILE:C	35:Ah:157:ILE:CA	1.78	1.53
53:CT:40:VAL:HG11	53:CT:96:ILE:CG2	1.07	1.53
57:CY:42:TYR:CD1	57:CY:119:LEU:HD21	1.41	1.53
13:AP:4:VAL:HA	13:AP:10:ARG:CD	1.07	1.53
18:AY:18:LEU:CB	18:AY:20:ARG:HH11	1.22	1.53
18:AY:29:HIS:CE1	18:AY:68:LYS:N	1.74	1.53
48:CD:261:VAL:CG1	48:CD:262:LYS:HA	1.37	1.53
51:CA:158:ILE:CG2	51:CA:162:ASN:ND2	1.69	1.53
63:CB:140:GLU:CD	63:CB:144:LYS:HD2	1.31	1.53
68:Cf:33:VAL:CG1	68:Cf:82:GLY:HA3	1.34	1.53
41:CO:7:LEU:HD13	52:CS:167:PHE:CE2	1.41	1.53
74:CC:133:LEU:CD2	74:CC:136:LEU:CD1	1.83	1.53
5:AO:88:LEU:CD1	15:AB:25:PHE:CE2	1.92	1.52
39:Cq:110:ALA:CB	39:Cq:181:SER:HA	1.36	1.52
48:CD:223:PHE:HD1	48:CD:226:TYR:CE2	0.87	1.52
74:CC:147:VAL:CG1	74:CC:152:LEU:HD22	1.34	1.52
3:AU:61:LEU:HD22	9:Ad:34:TYR:CE2	1.42	1.52
8:AS:58:GLU:C	8:AS:59:LEU:HD13	1.35	1.52
18:AY:78:SER:CB	18:AY:81:TYR:HD2	1.15	1.52
39:Cq:259:PHE:HB2	39:Cq:264:LYS:CD	1.37	1.52
46:CN:96:ARG:HH12	46:CN:104:GLU:CD	1.11	1.52
19:AZ:99:LEU:HD13	19:AZ:102:LYS:CE	1.35	1.52
26:AJ:72:PHE:CG	27:AE:248:ILE:CD1	1.89	1.52
59:CZ:46:ILE:CD1	59:CZ:49:TYR:CE1	1.89	1.52
74:CC:5:ARG:CG	74:CC:24:LEU:HG	1.07	1.52
79:CJ:128:LEU:HD11	79:CJ:130:PHE:CE2	1.38	1.52
83:Ct:15:ILE:HD12	84:Cv:9:LEU:CD1	1.38	1.52
13:AP:33:LEU:CD2	13:AP:87:PRO:CD	1.82	1.52
23:AD:197:LYS:HB2	23:AD:198:ILE:CG1	1.35	1.52
41:CO:9:LEU:HD21	52:CS:167:PHE:CD1	1.01	1.52
44:CM:60:PHE:CE2	44:CM:85:LYS:CB	1.88	1.52
63:CB:219:VAL:CG1	63:CB:345:LEU:HD21	1.35	1.52
3:AU:61:LEU:HD22	9:Ad:34:TYR:CZ	0.99	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:14:THR:CG2	34:AQ:56:LEU:HD22	1.07	1.52
33:AI:142:SER:CB	33:AI:143:LYS:HB2	1.34	1.52
46:CN:46:ASP:CB	46:CN:50:ARG:HH12	1.22	1.52
47:CI:106:ALA:CA	47:CI:108:ALA:HB2	1.38	1.52
52:CS:82:LEU:HD11	52:CS:124:ILE:CG2	1.38	1.52
60:Cr:86:ALA:CB	60:Cr:93:ILE:HD11	1.39	1.52
60:Cr:90:LEU:HD11	60:Cr:114:ALA:CB	1.40	1.52
83:Cs:11:TYR:CB	84:Cu:9:LEU:CD2	1.88	1.52
22:Ac:51:ARG:CB	30:AF:61:PHE:CZ	1.91	1.51
34:AQ:9:SER:HB3	34:AQ:26:LYS:CG	1.35	1.51
69:Cg:8:ARG:HB2	69:Cg:34:TYR:CE2	1.43	1.51
46:CN:120:TRP:CD1	46:CN:128:LYS:HZ3	1.27	1.51
48:CD:261:VAL:HB	48:CD:262:LYS:CB	1.39	1.51
69:Cg:37:LYS:CG	69:Cg:60:ARG:CZ	1.87	1.51
40:CK:102:GLY:HA2	40:CK:139:VAL:C	1.33	1.51
67:Ce:6:PRO:HD3	67:Ce:93:LYS:CE	1.06	1.51
81:CE:74:SER:CB	81:CE:74:SER:CA	1.85	1.51
4:AK:66:HIS:CE1	23:AD:76:ARG:NE	1.76	1.51
16:AA:30:LEU:CD1	16:AA:38:ILE:HD11	1.06	1.51
10:AN:24:THR:CB	21:Ab:84:HIS:HE1	1.07	1.51
27:AE:99:PHE:CE1	27:AE:113:ARG:HG3	1.45	1.51
28:AC:70:VAL:CG1	28:AC:97:PHE:CE2	1.93	1.51
30:AF:14:THR:HG21	34:AQ:56:LEU:CD2	1.05	1.51
78:Co:61:LYS:CD	78:Co:87:ARG:NH2	1.70	1.51
12:AR:1:MET:CB	12:AR:1:MET:CA	1.87	1.50
51:CA:143:THR:HA	51:CA:144:LYS:CG	1.37	1.50
63:CB:108:GLU:CG	63:CB:137:TRP:CD1	1.84	1.50
65:Cc:29:LEU:CD2	65:Cc:94:LEU:HD13	1.38	1.50
82:CG:103:ARG:C	82:CG:104:PRO:N	1.67	1.50
8:AS:8:LYS:HB2	8:AS:9:PHE:CD1	1.46	1.50
47:CI:185:VAL:CG2	47:CI:190:LEU:CD1	1.85	1.50
60:Cr:78:VAL:CG2	60:Cr:82:ILE:HG23	1.03	1.50
1:Az:481:LYS:CE	1:Az:532:PRO:CB	1.88	1.50
12:AR:99:ASP:CA	12:AR:119:VAL:HG11	1.40	1.50
49:CQ:6:ARG:CD	49:CQ:6:ARG:NE	1.75	1.50
55:CU:48:LYS:CG	55:CU:52:LYS:HA	1.36	1.50
39:Cq:236:SER:C	39:Cq:238:PRO:HD2	1.24	1.50
40:CK:2:PRO:CA	40:CK:2:PRO:C	1.82	1.50
57:CY:55:VAL:HG13	57:CY:104:VAL:CG1	1.36	1.50
78:Co:66:ILE:HD11	78:Co:85:ILE:CA	1.42	1.50
79:CJ:48:PRO:HB3	79:CJ:72:CYS:SG	1.52	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AO:19:PRO:CG	5:AO:27:VAL:CG2	1.86	1.50
17:AV:11:LEU:CD1	17:AV:12:TYR:CD2	1.94	1.50
63:CB:297:LYS:C	63:CB:298:LEU:N	1.69	1.50
81:CE:56:ARG:HD2	81:CE:65:ARG:NH1	1.18	1.50
11:AL:149:ALA:CB	11:AL:156:GLN:CG	1.90	1.50
60:Cr:20:ARG:CG	67:Ce:77:PHE:CE1	1.93	1.50
67:Ce:6:PRO:CD	67:Ce:93:LYS:HE2	1.05	1.50
70:Ci:43:MET:CE	82:CG:173:LEU:HD23	1.41	1.50
75:Cm:127:VAL:HG13	75:Cm:128:LYS:C	1.34	1.50
74:CC:7:LEU:H	74:CC:24:LEU:CD2	1.20	1.49
48:CD:20:PHE:CD2	48:CD:30:TYR:CE2	1.98	1.49
60:Cr:51:VAL:HG21	60:Cr:113:ARG:CB	1.38	1.49
41:CO:16:LEU:CD2	41:CO:41:ILE:HD13	1.42	1.49
41:CO:108:ILE:CG2	41:CO:160:ARG:CZ	1.88	1.49
80:CH:45:LEU:CD2	80:CH:57:VAL:HG12	1.41	1.49
32:AW:14:ILE:CD1	32:AW:72:CYS:SG	2.01	1.49
40:CK:10:ILE:CG1	40:CK:67:ARG:H	1.18	1.49
42:CL:127:PHE:CZ	42:CL:144:LEU:HB2	1.47	1.49
46:CN:56:LYS:CE	46:CN:59:TYR:HE2	1.26	1.49
63:CB:87:VAL:HG23	63:CB:163:ILE:CG2	1.40	1.49
65:Cc:99:PRO:HG2	65:Cc:105:ILE:CG1	1.38	1.49
69:Cg:69:LYS:HA	69:Cg:72:LYS:CE	1.37	1.49
8:AS:42:HIS:CD2	14:AT:45:LEU:CD1	1.92	1.49
11:AL:22:ARG:NH1	33:AI:157:LYS:CB	1.71	1.49
12:AR:105:MET:CG	16:AA:48:ILE:HG21	1.37	1.49
29:AG:121:ILE:HG23	29:AG:122:PRO:CD	1.38	1.49
57:CY:34:LEU:HD11	57:CY:38:LEU:CB	1.42	1.49
5:AO:19:PRO:HG3	5:AO:27:VAL:CG2	1.39	1.48
42:CL:167:ARG:NH2	42:CL:170:THR:HG21	1.18	1.48
57:CY:117:LYS:HE2	57:CY:121:ARG:NH2	1.23	1.48
83:Cs:31:LEU:CD2	84:Cu:30:VAL:CG2	1.87	1.48
19:AZ:99:LEU:CD1	19:AZ:102:LYS:HE2	1.44	1.48
82:CG:39:PHE:CZ	82:CG:47:PRO:HD3	1.45	1.48
1:Az:27:HIS:HD2	1:Az:28:VAL:N	1.08	1.48
4:AK:27:VAL:HG13	4:AK:43:LEU:CD2	1.02	1.48
12:AR:99:ASP:C	12:AR:119:VAL:HG11	1.08	1.48
21:Ab:33:MET:CE	21:Ab:79:PHE:CG	1.95	1.48
48:CD:47:PRO:CB	48:CD:66:TYR:CE1	1.97	1.48
1:Az:58:ASP:CB	1:Az:63:GLU:HG2	1.44	1.48
35:Ah:172:ARG:HD3	35:Ah:173:GLY:CA	1.01	1.48
53:CT:7:LYS:HE3	53:CT:54:HIS:CD2	1.45	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:71:ARG:CB	58:CW:71:ARG:CG	1.87	1.48
74:CC:22:VAL:CG2	74:CC:258:ARG:NE	1.77	1.48
13:AP:49:LEU:CD1	13:AP:51:ARG:HE	1.25	1.48
24:Ae:45:VAL:C	24:Ae:47:PRO:HD2	1.35	1.48
29:AG:184:VAL:HG12	29:AG:188:LYS:CE	1.38	1.48
48:CD:57:ASN:CA	48:CD:58:ARG:HD3	1.38	1.48
49:CQ:6:ARG:NE	49:CQ:6:ARG:CZ	1.72	1.48
49:CQ:99:LYS:HZ1	49:CQ:119:LYS:CD	1.26	1.48
54:CP:24:VAL:CG1	54:CP:90:PHE:CE2	1.94	1.48
70:Ci:33:LEU:HB2	70:Ci:38:LYS:CE	1.26	1.48
81:CE:111:LYS:C	81:CE:113:PRO:HD3	1.32	1.48
82:CG:75:LYS:NZ	82:CG:240:ASN:HD22	1.09	1.48
8:AS:39:ARG:NE	14:AT:38:LYS:HE3	1.27	1.47
13:AP:79:HIS:CE1	13:AP:102:PHE:HZ	1.31	1.47
24:Ae:30:GLY:CA	26:AJ:38:ARG:NH2	1.77	1.47
28:AC:70:VAL:HG13	28:AC:97:PHE:CZ	1.49	1.47
82:CG:136:LEU:HD21	82:CG:204:PHE:CE1	1.47	1.47
4:AK:3:MET:CE	4:AK:8:ARG:NH2	1.74	1.47
8:AS:39:ARG:NH2	14:AT:38:LYS:CE	1.76	1.47
54:CP:131:ARG:CD	54:CP:137:ASN:ND2	1.72	1.47
81:CE:212:LEU:HD11	81:CE:216:TYR:CG	1.46	1.47
1:Az:518:PRO:HG3	6:AX:50:ILE:CD1	1.01	1.47
26:AJ:118:GLY:C	26:AJ:119:LEU:N	1.73	1.47
30:AF:103:LEU:CD2	30:AF:178:ILE:HD13	1.38	1.47
60:Cr:51:VAL:CG1	60:Cr:117:ILE:CD1	1.92	1.47
64:CF:51:TYR:CZ	81:CE:58:SER:CB	1.97	1.47
2:Ag:172:LYS:CE	2:Ag:191:HIS:O	1.63	1.47
13:AP:41:GLN:CD	13:AP:84:ILE:HG21	1.38	1.47
34:AQ:135:PRO:CD	34:AQ:141:TYR:HE1	1.20	1.47
39:Cq:211:LEU:HD13	83:Cs:50:ALA:CB	1.43	1.47
45:Ca:117:LEU:HD12	45:Ca:118:PRO:CD	1.43	1.47
4:AK:17:LYS:CE	35:Ah:287:GLU:HG2	1.45	1.47
10:AN:55:ARG:NH1	21:Ab:47:PHE:CD2	1.83	1.47
12:AR:99:ASP:CA	12:AR:119:VAL:CG1	1.92	1.47
30:AF:42:LYS:HB2	30:AF:45:TYR:N	1.21	1.47
39:Cq:232:PRO:HG2	84:Cu:42:VAL:CG2	1.41	1.47
46:CN:172:ARG:HH21	46:CN:174:LEU:CD1	1.26	1.47
12:AR:123:THR:HG22	16:AA:44:ASP:CA	1.44	1.46
41:CO:108:ILE:HG21	41:CO:160:ARG:NE	1.17	1.46
48:CD:146:LEU:CD1	48:CD:163:LEU:HD22	1.44	1.46
74:CC:142:HIS:CE1	74:CC:249:PHE:H	1.32	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:36:LYS:C	81:CE:36:LYS:CA	1.85	1.46
81:CE:212:LEU:HD11	81:CE:216:TYR:CB	1.45	1.46
8:AS:120:HIS:HE1	13:AP:123:TYR:CE2	1.24	1.46
29:AG:76:LEU:CD2	29:AG:92:ARG:HG2	1.44	1.46
29:AG:157:VAL:CG1	29:AG:159:ARG:H	1.28	1.46
52:CS:82:LEU:CD1	52:CS:124:ILE:HG23	1.41	1.46
63:CB:298:LEU:CA	63:CB:298:LEU:C	1.85	1.46
1:Az:56:PHE:CZ	1:Az:455:GLY:CA	1.94	1.46
1:Az:267:ASP:CA	1:Az:267:ASP:C	1.88	1.46
22:Ac:15:THR:CG2	22:Ac:33:GLU:HG2	1.45	1.46
22:Ac:51:ARG:HB3	30:AF:61:PHE:CZ	1.50	1.46
41:CO:9:LEU:HD21	52:CS:167:PHE:CE1	1.49	1.46
74:CC:5:ARG:CG	74:CC:24:LEU:CG	1.81	1.46
1:Az:73:THR:N	1:Az:104:ASP:CB	1.78	1.46
30:AF:25:THR:CG2	30:AF:42:LYS:HG3	1.46	1.46
40:CK:160:VAL:O	40:CK:163:PRO:CD	1.64	1.46
58:CW:87:LEU:HA	58:CW:90:ILE:CD1	1.45	1.46
68:Cf:53:ALA:HA	68:Cf:54:LYS:CD	1.41	1.46
69:Cg:5:LEU:CD2	69:Cg:22:LEU:HD11	1.43	1.46
82:CG:77:PRO:HA	82:CG:237:TRP:CZ3	1.50	1.46
1:Az:206:ASP:HB3	1:Az:207:PRO:CD	1.19	1.46
4:AK:88:GLU:CD	35:Ah:282:GLU:HA	1.34	1.46
12:AR:1:MET:CA	12:AR:1:MET:N	1.78	1.46
39:Cq:43:ILE:CD1	39:Cq:187:LEU:HD21	1.44	1.46
42:CL:55:ILE:HD11	42:CL:120:TYR:CD1	1.47	1.46
45:Ca:73:VAL:CG2	45:Ca:108:TYR:CD1	1.87	1.46
48:CD:47:PRO:HB3	48:CD:66:TYR:CE1	1.49	1.46
60:Cr:28:GLU:CD	60:Cr:29:PRO:HD2	1.40	1.46
82:CG:95:LEU:CD2	82:CG:218:LEU:HD22	1.46	1.46
14:AT:23:LYS:HD3	14:AT:54:TYR:CD2	1.47	1.45
27:AE:159:THR:HG23	27:AE:227:VAL:CG2	1.43	1.45
30:AF:63:LYS:HD3	30:AF:71:ARG:CZ	1.42	1.45
33:AI:161:LEU:HD11	33:AI:199:LEU:CD1	1.43	1.45
57:CY:110:LYS:C	57:CY:115:ARG:HH11	1.17	1.45
11:AL:149:ALA:HB2	11:AL:156:GLN:CD	1.37	1.45
12:AR:38:ILE:C	23:AD:211:VAL:HG23	1.38	1.45
26:AJ:79:ARG:NH1	26:AJ:83:ARG:NH1	1.62	1.45
28:AC:170:TRP:CH2	32:AW:97:ARG:NH1	1.73	1.45
39:Cq:6:ARG:HG2	39:Cq:10:LYS:CE	1.42	1.45
40:CK:2:PRO:CD	40:CK:2:PRO:N	1.78	1.45
40:CK:10:ILE:CG2	40:CK:66:ASN:HA	1.38	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:148:THR:O	81:CE:163:VAL:CG1	1.63	1.45
82:CG:95:LEU:HD23	82:CG:218:LEU:CD2	1.41	1.45
11:AL:149:ALA:HB1	11:AL:156:GLN:CB	1.46	1.45
12:AR:20:TYR:CE1	12:AR:38:ILE:HG21	1.52	1.45
41:CO:16:LEU:HD12	41:CO:43:ILE:CG1	1.45	1.45
49:CQ:110:ARG:HE	49:CQ:120:ILE:CD1	1.27	1.45
67:Ce:129:LEU:HD23	67:Ce:130:ARG:N	1.18	1.45
1:Az:628:LEU:CD2	1:Az:631:ARG:NH2	1.73	1.45
31:AH:146:VAL:HG21	32:AW:50:PHE:CE1	1.50	1.45
53:CT:125:TRP:CD1	53:CT:126:VAL:HG23	1.52	1.45
81:CE:280:GLY:O	81:CE:282:TYR:CE2	1.70	1.45
83:Cs:11:TYR:CD2	84:Cu:12:LEU:HD11	1.52	1.45
17:AV:31:SER:CA	17:AV:31:SER:C	1.85	1.45
25:Af:140:TYR:OH	25:Af:146:LEU:CA	1.63	1.45
26:AJ:134:HIS:ND1	26:AJ:163:SER:HB2	1.30	1.45
65:Cc:28:VAL:HG11	65:Cc:33:GLN:CG	1.43	1.45
83:Ct:15:ILE:CD1	84:Cv:9:LEU:CD1	1.90	1.45
26:AJ:72:PHE:CD1	27:AE:248:ILE:HG13	1.48	1.44
66:Cd:116:ASN:C	66:Cd:117:LEU:HD13	1.41	1.44
67:Ce:129:LEU:CD2	67:Ce:130:ARG:H	1.28	1.44
70:Ci:33:LEU:HD13	70:Ci:34:THR:N	1.31	1.44
80:CH:109:GLY:HA3	80:CH:128:MET:CB	1.40	1.44
1:Az:267:ASP:CA	1:Az:267:ASP:N	1.77	1.44
4:AK:17:LYS:HE3	35:Ah:287:GLU:CG	1.47	1.44
8:AS:46:ARG:NH2	14:AT:50:GLU:HB3	1.16	1.44
13:AP:44:ARG:HE	13:AP:84:ILE:CD1	1.28	1.44
26:AJ:89:GLU:HA	26:AJ:92:MET:CG	1.45	1.44
40:CK:102:GLY:CA	40:CK:139:VAL:C	1.90	1.44
44:CM:77:TRP:HA	44:CM:82:ILE:CD1	1.45	1.44
52:CS:90:THR:HG21	53:CT:156:TYR:CD1	1.50	1.44
56:CX:81:LEU:HD21	56:CX:99:ILE:CG1	1.43	1.44
1:Az:73:THR:N	1:Az:104:ASP:HB3	1.21	1.44
5:AO:19:PRO:CG	5:AO:27:VAL:HG21	0.97	1.44
26:AJ:110:LEU:CD1	26:AJ:130:ILE:CD1	1.96	1.44
26:AJ:170:PRO:HG2	26:AJ:175:ARG:CG	1.46	1.44
29:AG:16:ILE:HD13	29:AG:45:TRP:CZ2	1.51	1.44
31:AH:122:LEU:HD13	31:AH:123:THR:N	1.21	1.44
42:CL:182:LEU:CD1	45:Ca:129:PHE:CE2	2.00	1.44
63:CB:395:ASP:HA	63:CB:396:ARG:CB	1.41	1.44
79:CJ:90:ARG:NH2	79:CJ:108:GLY:H	1.12	1.44
1:Az:56:PHE:CE2	1:Az:455:GLY:CA	2.01	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:11:ILE:CG2	4:AK:49:MET:CE	1.95	1.44
15:AB:137:LEU:CD2	15:AB:215:VAL:HG13	1.45	1.44
18:AY:118:ARG:NH2	29:AG:85:ARG:HD2	1.25	1.44
25:Af:108:VAL:CG2	25:Af:114:ILE:HG22	1.46	1.44
28:AC:65:LYS:CD	28:AC:266:TYR:HE1	1.20	1.44
46:CN:72:LYS:HE3	46:CN:90:ASN:ND2	1.33	1.44
46:CN:116:LEU:HD22	46:CN:135:ILE:CD1	1.47	1.44
60:Cr:51:VAL:HG11	60:Cr:117:ILE:CG1	1.45	1.44
82:CG:96:LEU:HD11	82:CG:189:ARG:NH2	1.33	1.44
1:Az:825:PHE:CE2	1:Az:849:PRO:CD	2.01	1.44
48:CD:146:LEU:HD11	48:CD:163:LEU:CD2	1.44	1.44
52:CS:23:HIS:CA	52:CS:24:THR:HB	1.18	1.44
54:CP:24:VAL:HG11	54:CP:90:PHE:CD2	1.48	1.44
81:CE:37:PRO:CA	81:CE:37:PRO:N	1.68	1.44
16:AA:58:LEU:CD2	16:AA:178:LEU:CD2	1.95	1.43
30:AF:167:LYS:HD3	30:AF:171:GLU:CG	1.47	1.43
41:CO:108:ILE:CG2	41:CO:160:ARG:NE	1.77	1.43
42:CL:9:VAL:C	42:CL:10:LEU:HD22	1.40	1.43
46:CN:180:PHE:CB	46:CN:184:ILE:HD12	1.48	1.43
1:Az:543:GLU:OE2	1:Az:576:VAL:CG2	1.65	1.43
24:Ae:30:GLY:CA	26:AJ:38:ARG:HH21	1.28	1.43
34:AQ:8:GLN:CG	34:AQ:99:TYR:CE1	2.01	1.43
44:CM:33:GLN:OE1	80:CH:61:TRP:CE2	1.68	1.43
45:Ca:119:LYS:O	45:Ca:140:VAL:CG1	1.67	1.43
48:CD:129:GLU:CD	48:CD:177:THR:HG22	1.43	1.43
66:Cd:108:TYR:C	66:Cd:109:VAL:N	1.75	1.43
83:Cs:7:LEU:N	84:Cu:12:LEU:HD13	1.30	1.43
34:AQ:93:VAL:CG1	34:AQ:105:LYS:CE	1.94	1.43
38:Cz:210:MET:CA	38:Cz:210:MET:N	1.76	1.43
52:CS:30:MET:HE1	52:CS:47:PHE:CB	1.44	1.43
60:Cr:20:ARG:HG2	67:Ce:77:PHE:CE1	1.52	1.43
74:CC:310:HIS:CB	74:CC:311:ARG:CD	1.96	1.43
79:CJ:128:LEU:CD1	79:CJ:130:PHE:CE2	1.98	1.43
1:Az:56:PHE:HZ	1:Az:456:ARG:N	1.17	1.43
24:Ae:30:GLY:HA3	26:AJ:38:ARG:NH2	1.18	1.43
39:Cq:211:LEU:CD1	83:Cs:50:ALA:CB	1.97	1.43
58:CW:106:GLU:CG	58:CW:110:ARG:HH12	1.29	1.43
67:Ce:3:ALA:HB2	67:Ce:121:ARG:CD	1.49	1.43
69:Cg:76:ARG:NH1	69:Cg:84:ALA:HB2	1.22	1.43
74:CC:313:VAL:C	74:CC:314:LEU:HD23	1.38	1.43
18:AY:18:LEU:CD1	18:AY:20:ARG:HH12	1.32	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:102:THR:HG21	18:AY:107:ARG:NE	1.16	1.43
27:AE:208:VAL:HB	27:AE:225:ILE:CD1	1.46	1.43
35:Ah:151:PHE:HB3	35:Ah:152:SER:C	1.37	1.43
35:Ah:172:ARG:CD	35:Ah:173:GLY:HA2	1.46	1.43
48:CD:104:LEU:HD23	48:CD:247:ILE:CG2	1.48	1.43
56:CX:60:TYR:CD2	61:Ch:78:TYR:O	1.70	1.43
63:CB:114:CYS:SG	63:CB:180:LEU:HD21	1.54	1.43
74:CC:148:PRO:HG2	74:CC:152:LEU:CD1	1.49	1.43
80:CH:7:ASN:CB	80:CH:58:ASP:OD1	1.66	1.43
81:CE:212:LEU:HD11	81:CE:216:TYR:CD2	1.50	1.43
11:AL:80:MET:CE	11:AL:120:VAL:O	1.65	1.42
12:AR:20:TYR:OH	12:AR:38:ILE:CG2	1.67	1.42
29:AG:176:ILE:CB	29:AG:179:LEU:HD23	1.48	1.42
33:AI:142:SER:HB3	33:AI:143:LYS:CB	1.44	1.42
34:AQ:50:LYS:HZ2	34:AQ:85:ARG:NH2	1.02	1.42
34:AQ:135:PRO:CD	34:AQ:141:TYR:CE1	1.92	1.42
46:CN:11:TRP:CD2	46:CN:44:ARG:NH2	1.86	1.42
63:CB:312:LYS:CG	63:CB:313:SER:H	1.26	1.42
65:Cc:29:LEU:HD23	65:Cc:94:LEU:CD1	1.45	1.42
74:CC:173:LYS:HE3	74:CC:173:LYS:CA	1.38	1.42
29:AG:11:GLY:HA3	58:CW:80:ARG:NH2	1.10	1.42
38:Cz:28:PHE:CA	38:Cz:28:PHE:CB	1.96	1.42
40:CK:102:GLY:N	40:CK:139:VAL:HG13	1.12	1.42
46:CN:115:VAL:HA	46:CN:134:LEU:CD2	1.45	1.42
49:CQ:154:LYS:HE3	49:CQ:163:THR:CG2	1.45	1.42
53:CT:7:LYS:CE	53:CT:54:HIS:CD2	2.01	1.42
56:CX:87:MET:HA	56:CX:90:ILE:CD1	1.48	1.42
60:Cr:78:VAL:CG2	60:Cr:82:ILE:CG2	1.95	1.42
60:Cr:119:ARG:HH11	81:CE:112:MET:CE	1.30	1.42
64:CF:30:ILE:HG21	64:CF:34:ARG:NH2	1.22	1.42
67:Ce:5:ARG:NE	67:Ce:93:LYS:HE3	1.33	1.42
81:CE:212:LEU:CD1	81:CE:216:TYR:CB	1.94	1.42
15:AB:113:MET:CE	15:AB:211:PHE:CE2	2.03	1.42
26:AJ:89:GLU:HA	26:AJ:92:MET:CB	1.48	1.42
35:Ah:172:ARG:CD	35:Ah:173:GLY:CA	1.94	1.42
57:CY:42:TYR:CD1	57:CY:119:LEU:CD2	2.02	1.42
58:CW:106:GLU:CG	58:CW:110:ARG:NH1	1.77	1.42
74:CC:14:LYS:HD2	74:CC:15:GLY:N	1.23	1.42
3:AU:50:VAL:HG22	3:AU:51:LYS:C	1.43	1.42
4:AK:60:GLU:CD	4:AK:67:PHE:HD1	1.26	1.42
21:Ab:64:CYS:SG	21:Ab:73:LEU:CD2	2.08	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:21:LYS:C	24:Ae:22:GLN:N	1.76	1.42
81:CE:106:VAL:CB	81:CE:107:VAL:HA	1.43	1.42
5:AO:88:LEU:HD11	15:AB:25:PHE:CE2	1.52	1.42
23:AD:195:THR:C	23:AD:197:LYS:HA	1.41	1.42
26:AJ:90:GLY:O	26:AJ:96:TYR:CD2	1.73	1.42
27:AE:153:LEU:HD13	27:AE:172:PHE:CZ	1.52	1.42
39:Cq:66:ARG:CD	39:Cq:69:LEU:CD2	1.85	1.42
40:CK:10:ILE:HG13	40:CK:67:ARG:N	1.30	1.42
74:CC:147:VAL:CG1	74:CC:148:PRO:HD2	1.47	1.42
82:CG:159:HIS:CE1	82:CG:185:LYS:CA	2.00	1.42
26:AJ:110:LEU:HD13	26:AJ:130:ILE:CD1	1.48	1.41
56:CX:119:ILE:CD1	56:CX:140:LEU:HD22	1.47	1.41
60:Cr:119:ARG:NH1	81:CE:112:MET:HE2	1.32	1.41
63:CB:142:GLY:CA	63:CB:147:GLU:OE1	1.67	1.41
21:Ab:33:MET:HE1	21:Ab:79:PHE:CG	1.52	1.41
52:CS:72:PRO:O	52:CS:100:LEU:CD1	1.68	1.41
54:CP:59:PRO:CG	54:CP:76:TRP:HD1	1.32	1.41
81:CE:224:LYS:CB	81:CE:226:ARG:HH12	1.29	1.41
4:AK:2:LEU:HD13	4:AK:3:MET:N	1.32	1.41
8:AS:120:HIS:NE2	8:AS:124:ARG:NE	1.62	1.41
9:Ad:13:LYS:CG	9:Ad:14:PHE:HD2	1.32	1.41
41:CO:16:LEU:HD12	41:CO:43:ILE:CD1	1.50	1.41
46:CN:58:GLY:HA2	46:CN:139:HIS:CD2	1.55	1.41
48:CD:152:ARG:HG3	79:CJ:145:LYS:NZ	1.25	1.41
52:CS:83:ARG:HG3	52:CS:92:ASN:ND2	1.35	1.41
63:CB:52:GLY:N	63:CB:78:ILE:HD11	1.09	1.41
64:CF:200:ARG:HH11	64:CF:203:GLU:CD	1.24	1.41
80:CH:86:LEU:CD2	80:CH:189:GLN:HB2	1.46	1.41
82:CG:159:HIS:ND1	82:CG:185:LYS:HA	1.31	1.41
8:AS:39:ARG:HH21	14:AT:38:LYS:NZ	1.16	1.41
20:Aa:28:ARG:NH1	20:Aa:30:VAL:HG22	1.31	1.41
26:AJ:72:PHE:CE2	27:AE:248:ILE:HD12	1.55	1.41
29:AG:129:VAL:HB	58:CW:80:ARG:NH1	1.29	1.41
46:CN:178:HIS:HA	46:CN:181:HIS:NE2	1.13	1.41
82:CG:35:ARG:C	82:CG:36:PRO:N	1.75	1.41
11:AL:80:MET:CE	11:AL:120:VAL:C	1.93	1.41
11:AL:149:ALA:HB2	11:AL:156:GLN:NE2	1.17	1.41
27:AE:151:ASP:HB3	29:AG:212:LEU:CD2	1.50	1.41
56:CX:89:LYS:NZ	56:CX:97:VAL:HG22	1.34	1.41
57:CY:11:ARG:HH12	74:CC:200:ARG:NH1	0.93	1.41
67:Ce:5:ARG:CZ	67:Ce:93:LYS:HE3	1.47	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:42:HIS:NE2	14:AT:45:LEU:CD2	1.84	1.40
18:AY:29:HIS:CE1	18:AY:67:GLY:C	1.99	1.40
29:AG:157:VAL:HG11	29:AG:159:ARG:CG	1.51	1.40
39:Cq:245:TYR:CE1	83:Ct:60:ILE:HD11	1.55	1.40
54:CP:24:VAL:HG11	54:CP:90:PHE:CE2	1.53	1.40
57:CY:110:LYS:HB3	57:CY:115:ARG:NH1	1.09	1.40
60:Cr:75:THR:HG1	74:CC:148:PRO:C	1.29	1.40
82:CG:136:LEU:CD2	82:CG:204:PHE:CE1	2.02	1.40
82:CG:191:GLY:CA	82:CG:199:CYS:SG	2.09	1.40
85:A5:2097:U:O4'	85:A5:2097:U:C1'	1.65	1.40
6:AX:14:ARG:CA	11:AL:99:TYR:OH	1.69	1.40
12:AR:85:VAL:CG2	16:AA:201:LEU:CB	1.96	1.40
13:AP:41:GLN:CG	13:AP:84:ILE:HG12	1.46	1.40
41:CO:81:TRP:CZ3	41:CO:85:ARG:NE	1.84	1.40
41:CO:119:VAL:CG1	41:CO:124:LEU:HD11	1.49	1.40
45:Ca:47:LYS:HE2	45:Ca:48:TYR:CE1	1.57	1.40
47:CI:185:VAL:CG2	47:CI:190:LEU:HD12	0.93	1.40
48:CD:44:TYR:CE1	53:CT:34:TYR:O	1.75	1.40
49:CQ:99:LYS:NZ	49:CQ:119:LYS:HD3	1.24	1.40
49:CQ:110:ARG:NE	49:CQ:120:ILE:CD1	1.79	1.40
52:CS:16:CYS:SG	52:CS:54:MET:CE	2.10	1.40
82:CG:77:PRO:CA	82:CG:237:TRP:CZ3	2.00	1.40
9:Ad:23:VAL:HG21	9:Ad:38:MET:CE	1.45	1.40
12:AR:44:LYS:CE	12:AR:47:ARG:HH22	1.34	1.40
16:AA:176:TRP:CZ3	16:AA:177:MET:SD	2.13	1.40
24:Ae:31:ARG:HB2	26:AJ:38:ARG:CG	1.51	1.40
27:AE:208:VAL:CB	27:AE:225:ILE:CD1	1.99	1.40
30:AF:91:ARG:NH1	30:AF:94:LYS:CB	1.85	1.40
39:Cq:236:SER:O	39:Cq:238:PRO:CD	1.70	1.40
39:Cq:257:TYR:CE1	84:Cv:42:VAL:HA	1.54	1.40
60:Cr:90:LEU:CD2	60:Cr:118:LEU:HD11	1.49	1.40
69:Cg:69:LYS:CA	69:Cg:72:LYS:HE3	1.50	1.40
83:Ct:11:TYR:CE2	84:Cv:12:LEU:CD1	2.04	1.40
84:Cv:7:TYR:CE2	84:Cv:42:VAL:HG11	1.53	1.40
1:Az:150:ARG:CZ	1:Az:194:GLU:OE1	1.65	1.40
3:AU:40:ILE:HD11	3:AU:53:PRO:CG	1.47	1.40
12:AR:20:TYR:CZ	12:AR:38:ILE:CG2	2.03	1.40
16:AA:58:LEU:HD21	16:AA:178:LEU:CD2	1.47	1.40
28:AC:116:THR:CG2	28:AC:118:ALA:O	1.69	1.40
40:CK:94:LYS:HD3	40:CK:96:LYS:CE	1.51	1.40
42:CL:129:ARG:NH2	61:Ch:115:PRO:HG2	1.08	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:125:LYS:CE	45:Ca:147:VAL:HG21	1.52	1.40
82:CG:143:VAL:HA	82:CG:146:LEU:CD2	1.50	1.40
1:Az:712:ASP:C	1:Az:713:ALA:N	1.79	1.40
40:CK:56:LEU:CD1	40:CK:91:ASP:OD2	1.66	1.40
42:CL:55:ILE:HD11	42:CL:120:TYR:CE1	1.52	1.40
53:CT:82:GLY:HA3	62:Cb:16:TRP:CE3	1.57	1.40
69:Cg:37:LYS:HG2	69:Cg:60:ARG:NH1	1.14	1.40
58:CW:79:GLN:OE1	58:CW:94:ARG:CZ	1.66	1.39
69:Cg:41:ALA:C	69:Cg:52:ARG:CD	1.93	1.39
70:Ci:78:GLY:C	70:Ci:79:THR:N	1.80	1.39
78:Co:66:ILE:CD1	78:Co:85:ILE:HB	0.92	1.39
1:Az:481:LYS:HE3	1:Az:532:PRO:CA	1.52	1.39
15:AB:113:MET:HE3	15:AB:209:ASP:CG	1.45	1.39
23:AD:112:GLY:C	23:AD:113:LEU:HD12	1.47	1.39
41:CO:131:PRO:HG2	52:CS:156:HIS:NE2	1.10	1.39
41:CO:202:LEU:C	41:CO:203:VAL:N	1.80	1.39
54:CP:26:PHE:HA	54:CP:144:CYS:SG	1.63	1.39
69:Cg:37:LYS:CG	69:Cg:60:ARG:NH1	1.83	1.39
74:CC:313:VAL:CA	74:CC:314:LEU:HD23	1.52	1.39
82:CG:46:GLN:NE2	82:CG:47:PRO:HD2	1.28	1.39
83:Ct:11:TYR:CD2	84:Cv:12:LEU:CD1	2.05	1.39
10:AN:55:ARG:NH1	21:Ab:47:PHE:HD2	1.16	1.39
26:AJ:177:ASN:O	26:AJ:180:LYS:CG	1.69	1.39
27:AE:98:ASN:ND2	27:AE:119:ALA:HB2	1.27	1.39
41:CO:128:ARG:NE	52:CS:161:ARG:HH21	1.17	1.39
46:CN:58:GLY:CA	46:CN:139:HIS:CD2	2.04	1.39
69:Cg:37:LYS:HG2	69:Cg:60:ARG:CZ	0.93	1.39
78:Co:66:ILE:HG13	78:Co:85:ILE:CG1	1.50	1.39
81:CE:121:VAL:HG22	81:CE:122:PRO:CD	1.51	1.39
82:CG:75:LYS:HZ3	82:CG:240:ASN:ND2	1.07	1.39
8:AS:39:ARG:CZ	14:AT:38:LYS:HE3	0.92	1.39
24:Ae:30:GLY:HA3	26:AJ:38:ARG:CZ	1.51	1.39
43:CV:82:ILE:CG2	43:CV:121:VAL:HG13	1.49	1.39
58:CW:87:LEU:CD2	58:CW:90:ILE:HD12	1.52	1.39
63:CB:108:GLU:HG3	63:CB:137:TRP:CD1	0.88	1.39
80:CH:49:GLY:HA2	80:CH:50:LYS:NZ	1.30	1.39
83:Cs:43:TRP:O	83:Cs:47:PHE:CD2	1.75	1.39
38:Cz:28:PHE:CB	38:Cz:28:PHE:C	1.95	1.39
39:Cq:248:VAL:HG13	84:Cv:4:VAL:CG1	1.53	1.39
40:CK:22:VAL:CG2	40:CK:48:LYS:CB	1.95	1.39
41:CO:131:PRO:CG	52:CS:156:HIS:NE2	1.83	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:91:ASN:O	57:CY:93:THR:CG2	1.68	1.39
60:Cr:90:LEU:CD1	60:Cr:114:ALA:HB1	1.49	1.39
74:CC:148:PRO:CG	74:CC:152:LEU:HD11	1.50	1.39
80:CH:110:SER:HB3	80:CH:128:MET:CG	1.52	1.39
83:Cs:41:PRO:O	83:Cs:44:PRO:CD	1.70	1.39
85:A5:1641:G:O4'	85:A5:1641:G:C1'	1.63	1.39
8:AS:138:THR:CA	8:AS:141:ARG:NH2	1.86	1.38
21:Ab:33:MET:CE	21:Ab:79:PHE:CB	1.94	1.38
30:AF:45:TYR:O	30:AF:47:LYS:CD	1.71	1.38
30:AF:103:LEU:HD23	30:AF:178:ILE:CD1	1.49	1.38
42:CL:64:VAL:HA	42:CL:67:HIS:CD2	1.56	1.38
53:CT:150:LEU:C	53:CT:151:LEU:N	1.78	1.38
60:Cr:64:ILE:HD11	60:Cr:81:THR:CG2	1.52	1.38
74:CC:144:ILE:CG2	74:CC:147:VAL:CG2	1.99	1.38
9:Ad:23:VAL:CG2	9:Ad:38:MET:HE1	0.91	1.38
12:AR:99:ASP:C	12:AR:119:VAL:CG1	1.94	1.38
12:AR:122:PRO:CA	12:AR:123:THR:HG23	1.51	1.38
46:CN:99:GLN:HG3	46:CN:130:PHE:CZ	1.58	1.38
47:CI:30:LYS:HE3	47:CI:30:LYS:CA	1.49	1.38
49:CQ:154:LYS:CB	49:CQ:155:ALA:HB3	1.53	1.38
67:Ce:5:ARG:HG3	67:Ce:93:LYS:CB	1.53	1.38
72:Ck:31:ASN:HB3	72:Ck:46:VAL:CG1	1.53	1.38
12:AR:17:ILE:CG2	12:AR:69:ILE:HD11	1.54	1.38
26:Aj:37:LEU:CD1	26:Aj:42:GLU:HB3	1.51	1.38
65:Cc:28:VAL:CG1	65:Cc:33:GLN:HG2	1.54	1.38
8:AS:14:ARG:NH1	8:AS:17:ASN:HA	1.38	1.38
13:AP:33:LEU:HD22	13:AP:87:PRO:CD	1.41	1.38
13:AP:79:HIS:HE1	13:AP:102:PHE:CZ	1.40	1.38
23:AD:5:ILE:C	23:AD:6:SER:N	1.82	1.38
41:CO:190:ASP:CB	41:CO:193:THR:HB	1.53	1.38
56:CX:60:TYR:CE2	61:Ch:78:TYR:HB2	1.56	1.38
1:Az:206:ASP:CB	1:Az:207:PRO:HD3	1.28	1.38
1:Az:613:LEU:CD2	1:Az:639:TYR:CD1	2.04	1.38
27:AE:49:ARG:C	27:AE:49:ARG:HD3	1.41	1.37
29:AG:14:LYS:NZ	29:AG:123:GLY:HA3	1.36	1.38
30:AF:45:TYR:O	30:AF:47:LYS:CE	1.71	1.38
39:Cq:232:PRO:CG	84:Cu:42:VAL:HG22	1.52	1.38
39:Cq:276:VAL:O	39:Cq:280:PRO:CD	1.72	1.38
45:Ca:119:LYS:C	45:Ca:140:VAL:HG13	1.48	1.38
49:CQ:154:LYS:HE2	49:CQ:155:ALA:C	1.48	1.38
58:CW:20:ARG:HH11	58:CW:28:VAL:CG1	1.37	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:86:SER:O	58:CW:90:ILE:HG13	1.23	1.38
65:Cc:57:LYS:O	65:Cc:61:GLU:CG	1.72	1.38
1:Az:845:LYS:NZ	1:Az:846:GLU:HG2	1.34	1.37
16:AA:97:THR:CG2	16:AA:98:PRO:HD2	1.52	1.37
69:Cg:76:ARG:NH1	69:Cg:84:ALA:CB	1.77	1.37
23:AD:132:LYS:HB2	23:AD:191:PRO:CG	1.53	1.37
26:AJ:48:PHE:CE1	26:AJ:52:LYS:HE3	1.57	1.37
39:Cq:25:PRO:HG3	39:Cq:92:LYS:CG	1.51	1.37
41:CO:118:MET:CE	52:CS:168:THR:O	1.71	1.37
67:Ce:44:ARG:HD3	67:Ce:52:GLN:NE2	1.10	1.37
82:CG:39:PHE:CZ	82:CG:47:PRO:CD	2.07	1.37
82:CG:243:GLY:C	82:CG:244:PRO:N	1.80	1.37
1:Az:855:LEU:HD23	1:Az:856:ASP:N	1.34	1.37
16:AA:57:LYS:CE	17:AV:70:LEU:HD11	1.55	1.37
18:AY:36:PRO:HG2	18:AY:39:GLU:CG	1.51	1.37
39:Cq:80:PRO:HG2	39:Cq:81:HIS:CE1	1.58	1.37
41:CO:190:ASP:HB2	41:CO:193:THR:N	1.40	1.37
44:CM:25:VAL:HG13	44:CM:39:ASP:C	1.47	1.37
46:CN:58:GLY:HA2	46:CN:139:HIS:NE2	1.39	1.37
46:CN:172:ARG:NH2	46:CN:174:LEU:HD11	1.38	1.37
58:CW:12:LYS:O	58:CW:32:LEU:HD21	1.20	1.37
79:CJ:90:ARG:NH1	79:CJ:107:PHE:CB	1.87	1.37
12:AR:5:ARG:HB2	12:AR:10:LYS:NZ	1.39	1.37
13:AP:41:GLN:HG2	13:AP:84:ILE:CB	1.54	1.37
14:AT:77:LYS:CG	14:AT:92:PHE:CE2	2.07	1.37
19:AZ:112:ASN:O	19:AZ:113:THR:HG23	1.23	1.37
24:Ae:38:TYR:CE1	26:AJ:30:LYS:HA	1.59	1.37
26:AJ:39:ASN:CG	26:AJ:42:GLU:OE2	1.67	1.37
29:AG:32:MET:SD	29:AG:100:CYS:HB3	1.63	1.37
40:CK:10:ILE:CB	40:CK:67:ARG:H	1.38	1.37
44:CM:60:PHE:HE2	44:CM:85:LYS:CB	1.20	1.37
47:CI:205:PRO:C	47:CI:206:LEU:N	1.82	1.37
55:CU:21:PHE:CE1	55:CU:80:LYS:HG3	1.59	1.37
59:CZ:73:LYS:CG	59:CZ:75:TYR:CE1	2.04	1.37
79:CJ:22:LEU:HD21	79:CJ:130:PHE:CE1	1.59	1.37
82:CG:121:LYS:CG	82:CG:126:GLY:O	1.70	1.37
31:AH:143:ARG:CD	32:AW:53:ILE:HG12	1.53	1.37
39:Cq:268:PHE:O	39:Cq:272:PRO:CD	1.71	1.37
40:CK:61:LYS:CE	40:CK:72:GLU:CB	1.89	1.37
60:Cr:90:LEU:HD22	60:Cr:118:LEU:CD1	1.51	1.37
63:CB:108:GLU:HG3	63:CB:137:TRP:CG	1.57	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:85:ARG:HH22	77:Cp:86:LEU:CD2	1.35	1.37
2:Ag:191:HIS:CD2	2:Ag:195:LEU:HD21	1.59	1.36
13:AP:44:ARG:NE	13:AP:84:ILE:HD12	1.34	1.36
15:AB:66:VAL:HG22	15:AB:87:ILE:CG2	1.55	1.36
40:CK:123:ARG:HD2	40:CK:129:ILE:CD1	0.89	1.36
51:CA:32:VAL:HG22	51:CA:163:ARG:CZ	1.52	1.36
52:CS:23:HIS:HA	52:CS:24:THR:CB	1.19	1.36
55:CU:60:VAL:CA	55:CU:75:GLU:HG2	1.55	1.36
57:CY:22:PRO:CD	57:CY:25:ILE:HD12	1.54	1.36
66:Cd:39:LYS:NZ	66:Cd:78:ARG:HH21	1.14	1.36
74:CC:76:ILE:CG2	74:CC:77:PRO:CD	2.01	1.36
78:Co:66:ILE:CG1	78:Co:85:ILE:HD12	1.54	1.36
81:CE:286:LEU:CB	81:CE:287:VAL:HA	1.37	1.36
1:Az:72:SER:OG	1:Az:104:ASP:C	1.63	1.36
2:Ag:194:TYR:CE2	2:Ag:212:LYS:CD	2.07	1.36
4:AK:65:ARG:NH2	9:Ad:25:SER:OG	1.57	1.36
27:AE:129:ILE:CG1	27:AE:139:LEU:HD22	1.45	1.36
30:AF:25:THR:CG2	30:AF:42:LYS:HD2	1.55	1.36
31:AH:31:GLU:OE2	31:AH:41:ARG:CD	1.71	1.36
31:AH:83:LEU:CD1	31:AH:92:VAL:HG21	1.52	1.36
53:CT:40:VAL:CG1	53:CT:96:ILE:HG23	1.55	1.36
63:CB:92:TYR:CD2	63:CB:99:LEU:CD1	2.06	1.36
63:CB:391:PRO:C	63:CB:392:LEU:HD22	1.50	1.36
69:Cg:41:ALA:HB3	69:Cg:52:ARG:CD	1.55	1.36
74:CC:22:VAL:CG2	74:CC:258:ARG:CZ	2.01	1.36
82:CG:39:PHE:HZ	82:CG:47:PRO:CD	1.36	1.36
83:Ct:41:PRO:O	83:Ct:44:PRO:CD	1.73	1.36
1:Az:541:SER:O	1:Az:543:GLU:CG	1.72	1.36
1:Az:855:LEU:HD23	1:Az:855:LEU:C	1.50	1.36
16:AA:57:LYS:NZ	17:AV:70:LEU:HD11	1.34	1.36
29:AG:25:ARG:HG2	29:AG:28:TYR:CD2	1.59	1.36
46:CN:56:LYS:CE	46:CN:59:TYR:CE2	2.08	1.36
60:Cr:64:ILE:CG1	60:Cr:81:THR:HG23	1.54	1.36
82:CG:217:LYS:CA	82:CG:217:LYS:HE2	1.48	1.36
4:AK:2:LEU:CD1	4:AK:3:MET:H	1.37	1.36
15:AB:113:MET:CE	15:AB:211:PHE:HE2	1.35	1.36
18:AY:20:ARG:HG3	18:AY:74:MET:CE	1.53	1.36
26:AJ:72:PHE:CZ	27:AE:248:ILE:HB	1.59	1.36
40:CK:2:PRO:C	40:CK:2:PRO:HA	1.43	1.36
44:CM:107:PHE:CE1	81:CE:270:TYR:CG	2.13	1.36
46:CN:197:THR:C	46:CN:198:LEU:HD23	1.45	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:45:VAL:HG12	67:Ce:55:MET:CE	1.53	1.36
75:Cm:127:VAL:CG1	75:Cm:128:LYS:O	1.74	1.36
80:CH:18:ILE:HD11	80:CH:55:LEU:CD1	1.54	1.36
1:Az:27:HIS:CD2	1:Az:28:VAL:N	1.93	1.36
1:Az:481:LYS:HZ2	1:Az:532:PRO:C	1.30	1.36
11:AL:19:ASN:ND2	33:AI:69:SER:HB2	1.32	1.36
11:AL:22:ARG:CD	33:AI:155:ASN:O	1.71	1.36
26:AJ:72:PHE:CG	27:AE:248:ILE:HD12	1.49	1.36
29:AG:10:THR:O	58:CW:80:ARG:CZ	1.74	1.36
51:CA:174:ARG:HA	77:Cp:69:TRP:CZ3	1.59	1.36
54:CP:41:ILE:HD12	54:CP:112:LEU:CB	1.53	1.36
67:Ce:44:ARG:CD	67:Ce:52:GLN:NE2	1.89	1.36
77:Cp:50:ARG:NH1	77:Cp:54:ILE:HD12	1.09	1.36
1:Az:165:LEU:CD1	1:Az:305:MET:HE2	1.53	1.35
24:Ae:40:ARG:O	24:Ae:45:VAL:CG2	1.73	1.35
24:Ae:44:ASN:N	24:Ae:45:VAL:HB	1.35	1.35
28:AC:157:LEU:HA	28:AC:160:LEU:CD2	1.56	1.35
45:Ca:84:GLU:CA	45:Ca:87:ARG:HG2	1.55	1.35
48:CD:27:LYS:HE2	79:CJ:147:ARG:NE	1.35	1.35
58:CW:88:ALA:HA	58:CW:91:MET:SD	1.66	1.35
1:Az:4:PHE:O	1:Az:46:ILE:CD1	1.72	1.35
1:Az:518:PRO:CB	6:AX:50:ILE:HD11	1.52	1.35
6:AX:105:PHE:CE2	6:AX:119:ARG:HA	1.60	1.35
17:AV:80:SER:C	17:AV:81:LYS:HE3	1.51	1.35
22:Ac:60:GLU:OE2	30:AF:204:ARG:NH1	1.57	1.35
23:AD:59:LEU:HD12	23:AD:60:GLY:N	1.36	1.35
27:AE:128:LYS:HD3	27:AE:130:PHE:CE1	1.60	1.35
30:AF:59:LYS:CD	30:AF:62:ARG:HH21	1.37	1.35
39:Cq:226:CYS:SG	84:Cu:4:VAL:HG21	1.63	1.35
42:CL:182:LEU:HD11	45:Ca:129:PHE:CE2	1.61	1.35
53:CT:40:VAL:CG1	53:CT:96:ILE:CG2	2.03	1.35
71:Cj:54:LYS:HE2	71:Cj:58:THR:CG2	1.55	1.35
78:Co:61:LYS:HD3	78:Co:87:ARG:NH2	1.03	1.35
81:CE:45:SER:HB3	81:CE:49:VAL:CG1	1.54	1.35
1:Az:481:LYS:NZ	1:Az:532:PRO:C	1.82	1.35
26:AJ:90:GLY:O	26:AJ:96:TYR:CE2	1.78	1.35
41:CO:16:LEU:CD2	41:CO:41:ILE:CD1	1.96	1.35
80:CH:109:GLY:C	80:CH:128:MET:HB2	1.49	1.35
8:AS:42:HIS:CE1	14:AT:45:LEU:HD21	1.62	1.35
39:Cq:253:VAL:HA	39:Cq:268:PHE:CZ	1.59	1.35
67:Ce:3:ALA:CB	67:Ce:121:ARG:HD3	1.56	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:11:PHE:CE2	68:Cf:97:ILE:HD13	1.59	1.35
74:CC:5:ARG:HG3	74:CC:24:LEU:CD1	1.55	1.35
77:Cp:50:ARG:CZ	77:Cp:54:ILE:HD12	1.57	1.35
82:CG:208:ASN:ND2	82:CG:210:GLU:HG3	1.37	1.35
1:Az:692:LEU:CD1	1:Az:824:PRO:HB2	1.56	1.35
9:Ad:13:LYS:HE3	9:Ad:14:PHE:CE2	1.60	1.35
12:AR:99:ASP:HA	12:AR:119:VAL:CG1	1.53	1.35
24:Ae:31:ARG:HB3	24:Ae:31:ARG:NH2	1.39	1.35
40:CK:10:ILE:CG2	40:CK:66:ASN:N	1.90	1.35
41:CO:185:VAL:N	44:CM:126:GLU:OE1	1.57	1.35
42:CL:19:GLN:CB	42:CL:20:ARG:HH11	1.38	1.35
52:CS:159:LEU:HD23	52:CS:160:ARG:N	1.40	1.35
69:Cg:8:ARG:HB2	69:Cg:34:TYR:CZ	1.60	1.35
78:Co:55:ILE:HD12	78:Co:56:PHE:N	1.05	1.35
4:AK:16:PHE:CE2	4:AK:79:LEU:CB	2.07	1.34
12:AR:21:TYR:CB	12:AR:71:ILE:HD13	1.53	1.34
18:AY:18:LEU:HD13	18:AY:20:ARG:NH1	1.41	1.34
29:AG:32:MET:CE	29:AG:100:CYS:HA	1.56	1.34
42:CL:26:PHE:O	42:CL:29:PRO:HD3	1.17	1.34
46:CN:46:ASP:HB3	46:CN:50:ARG:NH1	1.42	1.34
46:CN:115:VAL:O	46:CN:159:ARG:NH2	1.58	1.34
51:CA:209:HIS:HE1	51:CA:211:PHE:CG	1.44	1.34
61:Ch:109:ARG:NH1	61:Ch:109:ARG:HB3	1.41	1.34
79:CJ:90:ARG:NH2	79:CJ:108:GLY:N	1.72	1.34
82:CG:159:HIS:HE1	82:CG:185:LYS:C	1.32	1.34
2:Ag:5:MET:SD	2:Ag:312:VAL:CG2	2.15	1.34
13:AP:49:LEU:HD12	13:AP:51:ARG:NE	1.40	1.34
18:AY:29:HIS:HE1	18:AY:68:LYS:N	1.04	1.34
29:AG:130:PRO:HA	58:CW:81:ALA:CB	1.54	1.34
32:AW:14:ILE:HD11	32:AW:72:CYS:SG	1.64	1.34
39:Cq:264:LYS:HE3	84:Cv:1:MET:SD	1.66	1.34
62:Cb:78:PRO:N	62:Cb:78:PRO:CD	1.69	1.34
74:CC:288:ASP:OD2	74:CC:291:ARG:CB	1.75	1.34
82:CG:75:LYS:NZ	82:CG:240:ASN:ND2	1.68	1.34
11:AL:71:ARG:CD	11:AL:73:LEU:HD21	1.57	1.34
22:Ac:60:GLU:OE2	30:AF:204:ARG:CD	1.75	1.34
27:AE:19:MET:CE	36:B2:846:G:H2'	1.57	1.34
30:AF:63:LYS:HD3	30:AF:71:ARG:NH2	1.39	1.34
44:CM:60:PHE:CE2	44:CM:85:LYS:HB2	1.55	1.34
66:Cd:58:GLY:O	66:Cd:60:PRO:CD	1.73	1.34
78:Co:65:LYS:HB3	78:Co:66:ILE:CD1	1.53	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:66:ILE:CG1	78:Co:85:ILE:CB	1.97	1.34
78:Co:66:ILE:CG1	78:Co:85:ILE:CG1	2.05	1.34
8:AS:42:HIS:CG	14:AT:45:LEU:HD11	1.62	1.34
14:AT:77:LYS:HB2	14:AT:94:ARG:CD	1.57	1.34
18:AY:18:LEU:CD1	18:AY:20:ARG:NH1	1.90	1.34
21:Ab:33:MET:HE1	21:Ab:79:PHE:CD2	1.63	1.34
34:AQ:34:VAL:HG23	34:AQ:39:LEU:CD2	1.56	1.34
41:CO:16:LEU:HD21	41:CO:138:LEU:CD2	1.55	1.34
43:CV:89:ARG:HG3	43:CV:95:PHE:CE2	1.61	1.34
56:CX:38:LYS:HE3	56:CX:39:LYS:O	1.22	1.34
75:Cm:94:MET:HE1	75:Cm:123:PRO:CD	1.56	1.34
82:CG:75:LYS:HD3	82:CG:240:ASN:CB	1.58	1.34
85:A5:5015:G:O4'	85:A5:5015:G:C1'	1.63	1.34
8:AS:108:ARG:NH2	79:CJ:119:TYR:CE2	1.95	1.34
11:AL:147:LYS:CD	11:AL:148:ALA:HA	1.55	1.34
18:AY:78:SER:CB	18:AY:81:TYR:CD2	1.98	1.34
44:CM:35:ARG:NH2	52:CS:108:GLN:HE21	1.25	1.34
51:CA:173:GLY:O	77:Cp:69:TRP:CZ3	1.78	1.34
54:CP:41:ILE:CD1	54:CP:112:LEU:HB3	1.57	1.34
57:CY:49:ILE:CD1	57:CY:101:PRO:HB3	1.57	1.34
81:CE:83:LYS:NZ	81:CE:86:GLU:C	1.85	1.34
81:CE:121:VAL:CG2	81:CE:122:PRO:HD2	1.58	1.34
82:CG:217:LYS:HA	82:CG:217:LYS:CE	1.45	1.34
3:AU:62:ARG:NH1	3:AU:64:THR:HG21	1.42	1.33
4:AK:83:LEU:HB3	4:AK:85:LEU:CD2	1.56	1.33
7:AM:13:ASP:HB2	7:AM:16:THR:CB	1.57	1.33
29:AG:157:VAL:HG13	29:AG:159:ARG:N	1.39	1.33
42:CL:50:PRO:N	42:CL:51:ALA:HB2	1.41	1.33
45:Ca:48:TYR:N	49:CQ:156:PRO:HG2	1.39	1.33
47:CI:30:LYS:HA	47:CI:30:LYS:CE	1.38	1.33
1:Az:56:PHE:CZ	1:Az:456:ARG:N	1.93	1.33
7:AM:28:HIS:CD2	7:AM:115:GLY:HA3	1.62	1.33
12:AR:20:TYR:CZ	12:AR:38:ILE:HG21	1.63	1.33
30:AF:91:ARG:HH11	30:AF:94:LYS:CB	1.41	1.33
39:Cq:111:ALA:HB2	39:Cq:183:PHE:CG	1.64	1.33
40:CK:125:LEU:CD1	40:CK:163:PRO:HA	1.58	1.33
53:CT:125:TRP:CD1	53:CT:126:VAL:H	1.44	1.33
63:CB:219:VAL:HG13	63:CB:345:LEU:CD2	1.57	1.33
69:Cg:41:ALA:O	69:Cg:52:ARG:CD	1.76	1.33
74:CC:348:LYS:C	74:CC:349:LEU:CA	1.99	1.33
85:A5:2120:G:C1'	85:A5:2120:G:O4'	1.64	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:236:PHE:CZ	1:Az:273:PHE:HZ	1.44	1.33
1:Az:825:PHE:CZ	1:Az:849:PRO:HD3	1.63	1.33
33:AI:141:ARG:CG	33:AI:144:LYS:HB2	1.57	1.33
36:B2:988:C:C1'	36:B2:988:C:O4'	1.63	1.33
53:CT:81:LYS:HA	62:Cb:16:TRP:CZ2	1.62	1.33
59:CZ:11:VAL:CG1	59:CZ:80:LEU:HB3	1.57	1.33
74:CC:147:VAL:HA	74:CC:175:LYS:CG	1.56	1.33
83:Cs:31:LEU:CD2	84:Cu:30:VAL:HG22	1.50	1.33
16:AA:76:VAL:HG21	16:AA:90:PHE:CD2	1.60	1.33
23:AD:157:MET:CE	23:AD:187:LYS:HD3	1.59	1.33
26:AJ:39:ASN:ND2	26:AJ:42:GLU:OE2	1.57	1.33
26:AJ:61:LEU:HD22	26:AJ:98:LEU:CD1	1.56	1.33
31:AH:6:ALA:CA	31:AH:10:LYS:HD3	1.58	1.33
40:CK:102:GLY:CA	40:CK:139:VAL:O	1.77	1.33
40:CK:123:ARG:CD	40:CK:129:ILE:CD1	1.83	1.33
40:CK:160:VAL:HA	40:CK:163:PRO:CG	1.58	1.33
41:CO:16:LEU:CD1	41:CO:43:ILE:HD11	1.56	1.33
47:CI:86:HIS:HD2	47:CI:139:ARG:NH1	1.21	1.33
50:CR:162:ARG:O	50:CR:166:THR:HG23	1.23	1.33
51:CA:174:ARG:HA	77:Cp:69:TRP:CH2	1.61	1.33
66:Cd:93:ASN:ND2	66:Cd:98:SER:HB3	1.39	1.33
66:Cd:112:THR:CB	66:Cd:113:THR:HG23	1.56	1.33
79:CJ:48:PRO:CB	79:CJ:72:CYS:SG	2.13	1.33
83:Cs:11:TYR:CD2	84:Cu:12:LEU:CD1	2.10	1.33
2:Ag:172:LYS:CE	2:Ag:192:THR:HG22	1.59	1.33
39:Cq:139:GLN:O	39:Cq:142:GLY:N	1.60	1.33
40:CK:14:TYR:CD2	40:CK:63:THR:OG1	1.82	1.33
42:CL:50:PRO:CD	42:CL:51:ALA:HB2	1.57	1.33
60:Cr:51:VAL:CG1	60:Cr:117:ILE:HD11	1.53	1.33
68:Cf:53:ALA:CA	68:Cf:54:LYS:HD3	1.56	1.33
74:CC:22:VAL:HG21	74:CC:258:ARG:NE	1.38	1.33
74:CC:76:ILE:CG2	74:CC:77:PRO:HD2	1.54	1.33
74:CC:213:GLU:CA	74:CC:214:ASP:HB3	1.55	1.33
81:CE:45:SER:CB	81:CE:49:VAL:CG1	2.05	1.33
83:Cs:31:LEU:HD21	84:Cu:30:VAL:CG2	1.49	1.33
23:AD:197:LYS:HB3	23:AD:198:ILE:CG2	1.57	1.32
27:AE:153:LEU:CD1	27:AE:172:PHE:CZ	2.11	1.32
30:AF:59:LYS:HD2	30:AF:62:ARG:NH2	1.03	1.32
49:CQ:99:LYS:NZ	49:CQ:119:LYS:CD	1.84	1.32
49:CQ:154:LYS:NZ	49:CQ:156:PRO:HD3	1.41	1.32
74:CC:173:LYS:HA	74:CC:173:LYS:CE	1.47	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:45:SER:HB3	81:CE:49:VAL:CB	1.56	1.32
1:Az:512:LYS:HD2	1:Az:569:PRO:CB	1.58	1.32
2:Ag:20:GLN:NE2	2:Ag:68:ASP:OD2	1.62	1.32
2:Ag:118:ARG:NH2	2:Ag:134:THR:HG21	1.02	1.32
15:AB:205:TYR:CD2	15:AB:206:PRO:HD2	1.62	1.32
16:AA:21:ALA:CB	16:AA:173:LEU:HD12	1.42	1.32
16:AA:176:TRP:HZ3	16:AA:177:MET:SD	1.46	1.32
29:AG:63:MET:CE	29:AG:106:LEU:HD11	1.56	1.32
29:AG:184:VAL:CG1	29:AG:188:LYS:HE2	1.59	1.32
35:Ah:291:ASP:OD1	35:Ah:294:LYS:NZ	1.59	1.32
39:Cq:26:LYS:HB2	39:Cq:194:ASP:OD1	1.21	1.32
39:Cq:241:ILE:CG2	39:Cq:245:TYR:HE2	1.40	1.32
41:CO:131:PRO:HG2	52:CS:156:HIS:CE1	1.62	1.32
42:CL:129:ARG:HH22	61:Ch:115:PRO:CG	1.40	1.32
53:CT:143:THR:O	53:CT:146:LYS:C	1.71	1.32
54:CP:59:PRO:HG2	54:CP:76:TRP:CD1	1.64	1.32
59:CZ:3:LYS:O	59:CZ:6:LYS:CE	1.77	1.32
59:CZ:73:LYS:CG	59:CZ:75:TYR:CZ	2.11	1.32
60:Cr:113:ARG:O	60:Cr:117:ILE:HG12	1.18	1.32
75:Cm:94:MET:SD	75:Cm:123:PRO:HA	1.67	1.32
78:Co:65:LYS:CG	78:Co:85:ILE:O	1.77	1.32
78:Co:74:GLU:HB3	78:Co:75:PRO:CD	1.47	1.32
80:CH:105:ILE:HG22	80:CH:111:LEU:O	1.17	1.32
82:CG:143:VAL:O	82:CG:146:LEU:CD1	1.75	1.32
83:Ct:21:VAL:CG1	83:Ct:27:LYS:HD3	1.56	1.32
1:Az:160:MET:HE3	1:Az:178:PHE:CE2	1.62	1.32
1:Az:481:LYS:CE	1:Az:532:PRO:CA	2.03	1.32
7:AM:13:ASP:O	7:AM:16:THR:CG2	1.72	1.32
11:AL:80:MET:HE1	11:AL:121:GLN:CA	1.60	1.32
57:CY:117:LYS:CE	57:CY:121:ARG:NH2	1.89	1.32
58:CW:20:ARG:NH1	58:CW:28:VAL:HG11	1.01	1.32
80:CH:113:GLU:OE2	80:CH:123:ILE:CD1	1.77	1.32
82:CG:183:ILE:HG23	82:CG:184:ILE:CA	1.59	1.32
83:Cs:11:TYR:CE2	84:Cu:12:LEU:CD1	2.10	1.32
4:AK:83:LEU:CD1	4:AK:85:LEU:HD21	1.60	1.32
12:AR:85:VAL:HG23	16:AA:201:LEU:CD1	1.58	1.32
12:AR:105:MET:CG	16:AA:48:ILE:CG2	2.04	1.32
17:AV:11:LEU:HD11	17:AV:12:TYR:CD2	1.58	1.32
18:AY:44:LEU:HD11	18:AY:48:TYR:CE2	1.63	1.32
39:Cq:61:MET:SD	39:Cq:82:ILE:HB	1.70	1.32
39:Cq:149:ARG:O	39:Cq:151:THR:N	1.61	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:241:ILE:HG23	39:Cq:245:TYR:CE2	1.62	1.32
45:Ca:87:ARG:O	45:Ca:91:ALA:HB1	1.17	1.32
50:CR:32:ILE:HD12	50:CR:44:LEU:CD1	1.59	1.32
52:CS:161:ARG:O	52:CS:163:HIS:N	1.62	1.32
54:CP:95:LEU:CD1	54:CP:148:MET:SD	2.17	1.32
75:Cm:94:MET:HE1	75:Cm:123:PRO:N	1.41	1.32
82:CG:121:LYS:HD2	82:CG:122:ALA:N	1.42	1.32
82:CG:159:HIS:CE1	82:CG:185:LYS:C	2.06	1.32
12:AR:21:TYR:HB2	12:AR:71:ILE:CD1	1.59	1.32
13:AP:9:LYS:O	13:AP:10:ARG:HG3	1.19	1.32
14:AT:77:LYS:HG3	14:AT:92:PHE:CZ	1.63	1.32
16:AA:154:LEU:HD12	17:AV:63:GLY:C	1.54	1.32
29:AG:151:ASP:OD1	58:CW:105:ARG:CZ	1.64	1.32
40:CK:31:LYS:O	40:CK:34:PRO:CD	1.76	1.32
40:CK:107:ASP:OD1	40:CK:143:VAL:HG13	1.27	1.32
53:CT:136:ARG:NH2	64:CF:86:GLU:OE2	1.62	1.32
74:CC:233:SER:HA	74:CC:263:LEU:CD1	1.57	1.32
78:Co:20:PRO:O	78:Co:73:VAL:CG2	1.75	1.32
82:CG:159:HIS:HE1	82:CG:186:GLY:N	1.26	1.32
21:Ab:8:LEU:CD2	32:AW:62:VAL:HG21	1.59	1.31
34:AQ:93:VAL:HG11	34:AQ:105:LYS:CE	1.51	1.31
39:Cq:39:GLN:CG	39:Cq:107:VAL:HG21	1.60	1.31
49:CQ:22:ASP:OD1	74:CC:33:ARG:NE	1.59	1.31
51:CA:173:GLY:C	77:Cp:69:TRP:HZ3	1.38	1.31
74:CC:133:LEU:CD2	74:CC:136:LEU:HD12	1.44	1.31
74:CC:341:LEU:HD11	81:CE:52:ARG:NH2	1.02	1.31
2:Ag:12:LYS:CD	2:Ag:13:GLY:HA2	1.58	1.31
29:AG:1:MET:CE	29:AG:106:LEU:O	1.77	1.31
46:CN:180:PHE:HB2	46:CN:184:ILE:CD1	1.61	1.31
60:Cr:26:SER:N	60:Cr:34:ALA:O	1.62	1.31
65:Cc:29:LEU:HD12	65:Cc:89:TYR:OH	1.30	1.31
78:Co:65:LYS:HE3	78:Co:87:ARG:CG	1.61	1.31
4:AK:60:GLU:OE1	4:AK:67:PHE:CD1	1.84	1.31
8:AS:46:ARG:HG2	14:AT:50:GLU:OE2	1.19	1.31
13:AP:4:VAL:N	13:AP:10:ARG:HG2	1.40	1.31
16:AA:76:VAL:HG13	16:AA:175:TRP:CH2	1.65	1.31
27:AE:159:THR:CG2	27:AE:227:VAL:HG23	1.58	1.31
29:AG:32:MET:SD	29:AG:100:CYS:CB	2.17	1.31
33:AI:136:ILE:CG2	33:AI:139:LYS:HE3	1.60	1.31
47:CI:214:SER:OXT	48:CD:291:GLN:NE2	1.60	1.31
64:CF:200:ARG:NH1	64:CF:203:GLU:CD	1.86	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:33:VAL:HG11	68:Cf:82:GLY:C	1.53	1.31
82:CG:160:ASP:OD1	82:CG:187:LYS:CB	1.79	1.31
1:Az:72:SER:OG	1:Az:104:ASP:CA	1.78	1.31
1:Az:613:LEU:CD1	1:Az:639:TYR:HB3	1.60	1.31
3:AU:113:GLU:OE2	23:AD:7:LYS:NZ	1.60	1.31
17:AV:24:ILE:HD13	17:AV:25:GLY:N	1.45	1.31
18:AY:13:MET:HE2	18:AY:14:THR:O	1.28	1.31
41:CO:122:ALA:CB	52:CS:161:ARG:HB2	1.60	1.31
59:CZ:42:LEU:CD2	59:CZ:96:VAL:CG1	2.07	1.31
70:CI:25:ARG:HG3	70:CI:28:ARG:NH1	1.45	1.31
1:Az:10:ARG:NH2	1:Az:465:PRO:HD3	1.46	1.31
2:Ag:87:LEU:HD12	2:Ag:101:PHE:CB	1.60	1.31
6:AX:114:ASP:O	6:AX:116:PRO:HD3	1.16	1.31
27:AE:38:LEU:HD12	27:AE:38:LEU:C	1.56	1.31
28:AC:94:ILE:HD13	28:AC:162:ILE:CD1	1.59	1.31
41:CO:183:LYS:O	41:CO:187:LYS:N	1.64	1.31
42:CL:178:ALA:HB3	45:Ca:134:GLU:OE2	1.14	1.31
46:CN:6:TYR:CE1	70:CI:43:MET:SD	2.24	1.31
48:CD:273:LEU:HD13	48:CD:277:LYS:CE	1.58	1.31
51:CA:242:ARG:NH1	51:CA:247:ARG:HH21	1.27	1.31
73:CI:2:SER:OG	73:CI:5:LYS:HG2	1.30	1.31
79:CJ:22:LEU:HD21	79:CJ:130:PHE:CZ	1.65	1.31
84:Cv:7:TYR:CZ	84:Cv:42:VAL:HG11	1.65	1.31
11:AL:19:ASN:ND2	33:AI:69:SER:CB	1.83	1.30
11:AL:80:MET:HE1	11:AL:121:GLN:N	1.46	1.30
14:AT:23:LYS:HD3	14:AT:54:TYR:CG	1.65	1.30
27:AE:70:ILE:CG1	27:AE:92:ILE:CD1	2.08	1.30
42:CL:26:PHE:O	42:CL:29:PRO:CD	1.77	1.30
48:CD:137:GLY:O	48:CD:138:GLN:HG2	1.13	1.30
52:CS:90:THR:CG2	53:CT:156:TYR:CD1	2.13	1.30
52:CS:159:LEU:HD23	52:CS:159:LEU:C	1.54	1.30
54:CP:131:ARG:HD2	54:CP:137:ASN:ND2	0.98	1.30
55:CU:63:ILE:CD1	55:CU:72:VAL:HG22	1.60	1.30
58:CW:86:SER:OG	58:CW:89:ASP:HB2	1.17	1.30
60:Cr:75:THR:OG1	74:CC:148:PRO:C	1.69	1.30
60:Cr:130:ARG:O	60:Cr:134:THR:HG23	1.26	1.30
63:CB:355:THR:C	63:CB:356:LYS:HE2	1.53	1.30
70:CI:25:ARG:CG	70:CI:28:ARG:CZ	2.08	1.30
2:Ag:261:LEU:O	2:Ag:264:LYS:HE3	1.14	1.30
8:AS:120:HIS:NE2	8:AS:124:ARG:CZ	1.92	1.30
16:AA:177:MET:HE1	16:AA:180:ARG:NH2	1.00	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:176:ILE:HG21	29:AG:179:LEU:CD2	1.60	1.30
46:CN:120:TRP:CD1	46:CN:128:LYS:NZ	1.99	1.30
48:CD:47:PRO:HB2	48:CD:66:TYR:CD1	1.63	1.30
51:CA:250:LYS:HA	51:CA:251:THR:O	1.28	1.30
59:CZ:46:ILE:HD11	59:CZ:49:TYR:CZ	1.65	1.30
63:CB:140:GLU:HG2	63:CB:144:LYS:NZ	1.45	1.30
82:CG:136:LEU:CD2	82:CG:204:PHE:CZ	2.12	1.30
15:AB:87:ILE:HD13	15:AB:101:HIS:CD2	1.66	1.30
24:Ae:31:ARG:CB	26:AJ:38:ARG:HG2	1.62	1.30
25:Af:144:CYS:CB	25:Af:147:THR:HG22	1.60	1.30
26:AJ:15:THR:HG22	26:AJ:44:TRP:CE3	1.65	1.30
34:AQ:38:PRO:HG2	34:AQ:41:MET:SD	1.69	1.30
39:Cq:25:PRO:HG3	39:Cq:92:LYS:CB	1.61	1.30
41:CO:188:LYS:HE2	41:CO:188:LYS:CA	1.54	1.30
53:CT:81:LYS:CA	62:Cb:16:TRP:CH2	2.14	1.30
81:CE:46:ARG:CZ	81:CE:47:ASN:H	1.41	1.30
4:AK:30:PRO:O	4:AK:31:LYS:HG3	1.14	1.30
10:AN:24:THR:CG2	21:Ab:84:HIS:CE1	2.12	1.30
14:AT:11:GLN:NE2	14:AT:62:ARG:CZ	1.92	1.30
40:CK:102:GLY:H	40:CK:139:VAL:CG1	1.45	1.30
40:CK:160:VAL:C	40:CK:163:PRO:CD	2.01	1.30
46:CN:180:PHE:O	46:CN:184:ILE:HB	1.25	1.30
60:Cr:51:VAL:HG12	60:Cr:117:ILE:CD1	1.52	1.30
66:Cd:21:VAL:HG11	66:Cd:23:ARG:NH2	0.99	1.30
81:CE:56:ARG:HB3	81:CE:65:ARG:NH1	1.42	1.30
85:A5:975:C:C1'	85:A5:975:C:O4'	1.69	1.30
4:AK:21:MET:CE	4:AK:49:MET:SD	2.17	1.30
6:AX:142:ARG:HH11	6:AX:142:ARG:CB	1.44	1.30
18:AY:99:LYS:N	18:AY:99:LYS:HE3	1.45	1.30
34:AQ:42:ILE:CD1	34:AQ:51:LEU:HD21	1.58	1.30
36:B2:182:C:O4'	36:B2:182:C:C1'	1.66	1.30
48:CD:164:LYS:HE3	48:CD:168:ASP:OD2	1.24	1.30
51:CA:144:LYS:O	51:CA:145:LYS:HG3	1.19	1.30
81:CE:108:LYS:CE	81:CE:108:LYS:HA	1.50	1.30
1:Az:543:GLU:OE2	1:Az:576:VAL:HG21	1.12	1.29
12:AR:15:VAL:CG1	23:AD:210:ILE:CD1	2.09	1.29
13:AP:53:GLN:CG	13:AP:80:LEU:CD1	2.08	1.29
39:Cq:253:VAL:HA	39:Cq:268:PHE:CE1	1.67	1.29
42:CL:50:PRO:HB2	42:CL:51:ALA:CA	1.56	1.29
46:CN:21:PHE:CE2	82:CG:80:ILE:CD1	2.14	1.29
59:CZ:5:MET:N	59:CZ:6:LYS:HD3	1.40	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:33:VAL:CG1	68:Cf:82:GLY:CA	2.10	1.29
74:CC:54:VAL:CG1	74:CC:55:SER:H	1.31	1.29
74:CC:124:ILE:HG12	74:CC:237:ILE:CG1	1.58	1.29
74:CC:124:ILE:CG1	74:CC:237:ILE:HG13	1.61	1.29
74:CC:341:LEU:CD1	81:CE:52:ARG:NH2	1.96	1.29
77:Cp:50:ARG:NH1	77:Cp:54:ILE:CD1	1.95	1.29
6:AX:29:LYS:HD2	6:AX:34:THR:OG1	1.31	1.29
10:AN:38:TYR:HE2	10:AN:74:ILE:CG2	1.43	1.29
22:Ac:47:LYS:CE	30:AF:141:VAL:HB	1.60	1.29
31:AH:122:LEU:CD1	31:AH:123:THR:N	1.94	1.29
39:Cq:24:TYR:CB	39:Cq:25:PRO:HD3	1.49	1.29
40:CK:10:ILE:HG13	40:CK:67:ARG:CA	1.60	1.29
42:CL:125:ILE:HG22	42:CL:127:PHE:CE1	1.66	1.29
42:CL:178:ALA:CB	45:Ca:134:GLU:OE2	1.79	1.29
47:CI:10:ARG:NH2	47:CI:56:GLU:OE1	1.63	1.29
57:CY:11:ARG:NH1	74:CC:200:ARG:NH1	1.79	1.29
59:CZ:3:LYS:O	59:CZ:6:LYS:HE3	1.22	1.29
80:CH:105:ILE:CG2	80:CH:112:VAL:CA	2.07	1.29
85:A5:1928:C:O4'	85:A5:1928:C:C1'	1.64	1.29
18:AY:18:LEU:CB	18:AY:20:ARG:NH1	1.94	1.29
18:AY:99:LYS:HE3	18:AY:99:LYS:CA	1.47	1.29
26:AJ:15:THR:HG22	26:AJ:44:TRP:CZ3	1.66	1.29
28:AC:84:PHE:HZ	28:AC:262:THR:OG1	1.03	1.29
28:AC:117:ARG:HB2	28:AC:117:ARG:NH2	1.48	1.29
29:AG:176:ILE:CG2	29:AG:179:LEU:CD2	2.10	1.29
33:AI:25:ARG:CD	33:AI:27:TYR:HE2	1.43	1.29
39:Cq:271:ASP:O	39:Cq:275:PHE:CD2	1.83	1.29
41:CO:131:PRO:O	41:CO:132:THR:HG23	1.19	1.29
49:CQ:110:ARG:NH1	74:CC:281:MET:SD	2.04	1.29
50:CR:32:ILE:CD1	50:CR:44:LEU:HD13	1.61	1.29
51:CA:209:HIS:CE1	51:CA:211:PHE:CG	2.20	1.29
52:CS:161:ARG:C	52:CS:163:HIS:H	1.19	1.29
56:CX:52:LEU:HD11	56:CX:54:LEU:N	1.41	1.29
57:CY:82:ILE:HG22	57:CY:83:GLU:O	1.25	1.29
63:CB:61:ASP:OD1	63:CB:361:GLU:HG3	1.14	1.29
79:CJ:90:ARG:NH1	79:CJ:107:PHE:HB2	0.97	1.29
81:CE:45:SER:OG	81:CE:49:VAL:HG11	1.14	1.29
82:CG:75:LYS:CD	82:CG:240:ASN:CB	2.08	1.29
1:Az:56:PHE:CE2	1:Az:455:GLY:HA2	1.62	1.29
4:AK:43:LEU:O	4:AK:45:VAL:N	1.65	1.29
12:AR:105:MET:HG2	16:AA:48:ILE:CG2	1.58	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:30:LEU:CD1	16:AA:38:ILE:CD1	1.96	1.29
23:AD:197:LYS:CB	23:AD:198:ILE:HG23	1.63	1.29
31:AH:40:LEU:CD2	31:AH:43:LEU:CD1	2.09	1.29
39:Cq:277:ALA:O	39:Cq:280:PRO:HG2	1.31	1.29
47:CI:175:LYS:HB2	47:CI:176:PHE:CE1	1.65	1.29
49:CQ:151:HIS:ND1	49:CQ:164:LYS:O	1.64	1.29
74:CC:63:SER:OG	74:CC:80:ARG:HD2	1.30	1.29
81:CE:138:ARG:NH2	81:CE:169:ALA:O	1.66	1.29
85:A5:2488:C:C1'	85:A5:2488:C:O4'	1.63	1.29
4:AK:11:ILE:CG2	4:AK:49:MET:HE1	1.60	1.29
40:CK:2:PRO:CA	40:CK:2:PRO:CB	2.10	1.29
42:CL:19:GLN:CB	42:CL:20:ARG:NH1	1.95	1.29
53:CT:150:LEU:C	53:CT:150:LEU:HD23	1.56	1.29
54:CP:27:LYS:HG2	54:CP:63:TYR:CG	1.68	1.29
5:AO:142:ARG:NH1	20:Aa:27:ALA:HB2	1.47	1.28
12:AR:91:LEU:CD1	12:AR:92:ASP:HA	1.63	1.28
21:Ab:8:LEU:HD21	32:AW:62:VAL:CB	1.60	1.28
23:AD:35:SER:CA	23:AD:99:ILE:HD11	1.63	1.28
23:AD:123:LEU:HD21	23:AD:154:ASP:CB	1.63	1.28
30:AF:122:ARG:O	30:AF:141:VAL:HG13	1.26	1.28
36:B2:127:C:C4	36:B2:180:G:O2'	1.85	1.28
39:Cq:24:TYR:HB3	39:Cq:25:PRO:CD	1.59	1.28
40:CK:94:LYS:HB3	40:CK:96:LYS:CD	1.63	1.28
41:CO:188:LYS:HA	41:CO:188:LYS:CE	1.43	1.28
41:CO:190:ASP:HB3	41:CO:193:THR:CB	1.62	1.28
42:CL:8:MET:O	42:CL:10:LEU:CD2	1.80	1.28
48:CD:246:ALA:HA	48:CD:249:GLU:OE2	1.30	1.28
49:CQ:72:LEU:O	49:CQ:75:ARG:HG2	1.24	1.28
57:CY:34:LEU:HD21	57:CY:38:LEU:C	1.55	1.28
63:CB:112:ASP:O	63:CB:114:CYS:N	1.63	1.28
63:CB:297:LYS:O	63:CB:300:LYS:NZ	1.64	1.28
77:Cp:50:ARG:CD	77:Cp:54:ILE:HD13	1.47	1.28
82:CG:77:PRO:CG	82:CG:237:TRP:HZ3	1.46	1.28
1:Az:43:ALA:O	1:Az:45:ILE:N	1.66	1.28
23:AD:105:LEU:CD2	23:AD:184:ILE:HD12	1.63	1.28
24:Ae:30:GLY:N	26:AJ:38:ARG:HH21	1.29	1.28
25:Af:106:TYR:OH	25:Af:131:PHE:CZ	1.81	1.28
35:Ah:285:PRO:O	35:Ah:289:THR:HG23	1.21	1.28
40:CK:94:LYS:CB	40:CK:96:LYS:CD	2.11	1.28
40:CK:160:VAL:CA	40:CK:163:PRO:CG	2.11	1.28
41:CO:190:ASP:OD1	41:CO:194:GLU:N	1.64	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:154:LYS:HE2	49:CQ:156:PRO:N	1.47	1.28
55:CU:60:VAL:HA	55:CU:75:GLU:CG	1.61	1.28
59:CZ:73:LYS:CE	59:CZ:75:TYR:CE1	2.15	1.28
68:Cf:33:VAL:HG11	68:Cf:82:GLY:CA	1.64	1.28
74:CC:14:LYS:O	74:CC:16:GLU:HG2	1.30	1.28
74:CC:310:HIS:CB	74:CC:311:ARG:HD3	1.57	1.28
1:Az:113:SER:HA	1:Az:499:PHE:CB	1.61	1.28
3:AU:62:ARG:NH1	3:AU:64:THR:CG2	1.95	1.28
4:AK:3:MET:HE1	4:AK:8:ARG:NH2	0.97	1.28
16:AA:177:MET:CE	16:AA:180:ARG:NH2	1.95	1.28
21:Ab:33:MET:HA	21:Ab:81:ARG:O	1.21	1.28
23:AD:218:LEU:CG	23:AD:220:THR:CG2	2.11	1.28
28:AC:227:ARG:HH11	28:AC:228:GLY:CA	1.45	1.28
40:CK:56:LEU:HB3	40:CK:91:ASP:OD1	1.30	1.28
40:CK:94:LYS:HG2	40:CK:96:LYS:CG	1.62	1.28
45:Ca:89:ASN:HB3	45:Ca:91:ALA:N	1.48	1.28
48:CD:41:LYS:HE3	53:CT:93:ILE:CD1	1.64	1.28
48:CD:42:ASN:OD1	53:CT:67:VAL:CG1	1.81	1.28
48:CD:246:ALA:O	48:CD:249:GLU:HG2	1.29	1.28
52:CS:164:LYS:HE3	52:CS:165:PRO:CD	1.60	1.28
55:CU:59:GLY:O	55:CU:61:VAL:CG2	1.78	1.28
63:CB:142:GLY:HA3	63:CB:147:GLU:CD	1.57	1.28
64:CF:51:TYR:CE1	81:CE:58:SER:CB	2.11	1.28
82:CG:160:ASP:OD1	82:CG:187:LYS:HB3	1.19	1.28
85:A5:2601:A:O4'	85:A5:2601:A:C1'	1.64	1.28
1:Az:42:LYS:HG3	1:Az:79:TYR:OH	1.24	1.28
1:Az:330:LYS:O	1:Az:331:GLU:HG2	1.33	1.28
1:Az:496:VAL:HG22	1:Az:497:MET:SD	1.71	1.28
1:Az:502:SER:HB2	1:Az:504:VAL:CG1	1.62	1.28
6:AX:10:ALA:HB2	11:AL:101:ARG:O	1.29	1.28
8:AS:8:LYS:HD3	8:AS:9:PHE:CE1	1.69	1.28
28:AC:116:THR:HG22	28:AC:119:GLY:O	1.13	1.28
39:Cq:248:VAL:HG22	84:Cv:8:LEU:CD1	1.62	1.28
42:CL:148:THR:O	42:CL:149:GLN:HG2	1.31	1.28
46:CN:56:LYS:HE3	46:CN:59:TYR:CE2	1.65	1.28
67:Ce:22:ARG:NH1	67:Ce:31:ILE:HG23	1.48	1.28
74:CC:213:GLU:N	74:CC:214:ASP:HB3	1.46	1.28
82:CG:28:VAL:HA	82:CG:31:LEU:CD2	1.63	1.28
85:A5:923:C:O4'	85:A5:923:C:C1'	1.64	1.28
85:A5:1931:C:O4'	85:A5:1931:C:C1'	1.64	1.28
85:A5:2035:C:O4'	85:A5:2035:C:C1'	1.63	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:753:GLU:CB	1:Az:782:PHE:CE1	2.14	1.28
6:AX:51:VAL:HG13	6:AX:70:VAL:CG1	1.60	1.28
11:AL:147:LYS:CG	11:AL:148:ALA:HA	1.61	1.28
14:AT:31:PRO:O	14:AT:33:TRP:N	1.63	1.28
18:AY:13:MET:HE3	18:AY:14:THR:N	1.45	1.28
26:AJ:17:ARG:CG	26:AJ:18:ARG:HD3	1.64	1.28
26:AJ:89:GLU:C	26:AJ:92:MET:HB2	1.57	1.28
31:AH:6:ALA:HA	31:AH:10:LYS:CD	1.62	1.28
40:CK:78:SER:HB3	40:CK:117:ARG:NH1	1.49	1.28
40:CK:123:ARG:HH11	40:CK:129:ILE:CD1	1.47	1.28
58:CW:79:GLN:OE1	58:CW:94:ARG:NH1	1.62	1.28
81:CE:83:LYS:HB2	81:CE:84:LYS:C	1.58	1.28
81:CE:83:LYS:HZ3	81:CE:86:GLU:C	1.38	1.28
82:CG:139:GLY:HA2	85:A5:149:A:O2'	1.33	1.28
82:CG:159:HIS:CE1	82:CG:186:GLY:N	2.00	1.28
84:Cu:7:TYR:CE1	84:Cu:23:ILE:CD1	2.17	1.28
85:A5:4612:C:C1'	85:A5:4612:C:O4'	1.64	1.28
5:AO:113:GLN:CG	20:Aa:46:GLU:OE2	1.81	1.27
26:AJ:88:ASP:C	26:AJ:92:MET:HG3	1.58	1.27
26:AJ:134:HIS:ND1	26:AJ:163:SER:CB	1.96	1.27
39:Cq:242:ILE:HD13	83:Ct:63:VAL:CG2	1.63	1.27
53:CT:68:THR:OG1	53:CT:71:ALA:CB	1.80	1.27
63:CB:61:ASP:OD1	63:CB:361:GLU:CG	1.80	1.27
67:Ce:5:ARG:CZ	67:Ce:93:LYS:CE	2.11	1.27
74:CC:124:ILE:CG1	74:CC:237:ILE:CD1	2.12	1.27
74:CC:144:ILE:HD11	74:CC:249:PHE:CG	1.69	1.27
83:Cs:17:HIS:CE1	83:Cs:56:ILE:CD1	2.16	1.27
13:AP:62:LYS:O	13:AP:65:LYS:HG2	1.21	1.27
19:AZ:99:LEU:HD23	19:AZ:109:TYR:CE1	1.68	1.27
28:AC:125:LYS:HE2	28:AC:127:PHE:CZ	1.66	1.27
39:Cq:111:ALA:HB2	39:Cq:183:PHE:CE2	1.69	1.27
48:CD:44:TYR:HE1	53:CT:34:TYR:O	1.05	1.27
51:CA:32:VAL:HG22	51:CA:163:ARG:NH1	0.95	1.27
64:CF:23:ARG:CA	64:CF:24:ASN:N	1.96	1.27
74:CC:124:ILE:HG13	74:CC:237:ILE:CD1	1.64	1.27
75:Cm:83:ARG:O	75:Cm:87:GLN:HG2	1.34	1.27
79:CJ:20:LEU:HD13	79:CJ:83:LEU:CD2	1.65	1.27
8:AS:61:GLU:O	8:AS:64:VAL:HG22	1.33	1.27
20:Aa:28:ARG:NH1	20:Aa:30:VAL:CG2	1.94	1.27
23:AD:97:CYS:O	23:AD:99:ILE:N	1.67	1.27
28:AC:169:TYR:OH	28:AC:176:LYS:CA	1.81	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:40:LEU:HD21	31:AH:43:LEU:CD1	1.64	1.27
31:AH:122:LEU:HD13	31:AH:122:LEU:C	1.57	1.27
39:Cq:119:CYS:C	39:Cq:163:THR:HG22	1.57	1.27
39:Cq:129:GLY:HA2	40:CK:1:MET:O	1.24	1.27
40:CK:8:ASN:O	40:CK:9:GLU:HG2	1.22	1.27
40:CK:142:ASN:CB	40:CK:147:HIS:O	1.81	1.27
41:CO:128:ARG:HE	52:CS:161:ARG:NH2	1.31	1.27
47:CI:185:VAL:HG22	47:CI:190:LEU:CD1	1.53	1.27
48:CD:47:PRO:CB	48:CD:66:TYR:HE1	1.32	1.27
54:CP:29:THR:HA	54:CP:32:THR:CG2	1.61	1.27
63:CB:114:CYS:SG	63:CB:180:LEU:CD2	2.21	1.27
65:Cc:58:SER:HA	65:Cc:61:GLU:OE1	1.25	1.27
83:Ct:15:ILE:CD1	84:Cv:9:LEU:HD11	1.56	1.27
8:AS:132:ARG:HB2	8:AS:134:GLN:OE1	1.18	1.27
12:AR:99:ASP:O	12:AR:119:VAL:HG11	1.30	1.27
17:AV:55:ILE:HD11	17:AV:68:SER:OG	1.27	1.27
18:AY:102:THR:CG2	18:AY:107:ARG:HE	1.46	1.27
39:Cq:80:PRO:C	39:Cq:81:HIS:ND1	1.93	1.27
47:CI:206:LEU:CB	47:CI:206:LEU:C	2.07	1.27
48:CD:262:LYS:HD3	48:CD:266:TRP:NE1	1.47	1.27
51:CA:118:GLU:CG	51:CA:125:LYS:HZ2	1.45	1.27
54:CP:4:TYR:HH	54:CP:17:SER:C	1.43	1.27
59:CZ:76:ASN:ND2	59:CZ:78:ASN:HB2	1.45	1.27
60:Cr:119:ARG:NH1	81:CE:112:MET:CE	1.89	1.27
81:CE:286:LEU:HB2	81:CE:287:VAL:CA	1.64	1.27
83:Ct:15:ILE:CD1	84:Cv:9:LEU:HD12	1.56	1.27
4:AK:17:LYS:CE	35:Ah:287:GLU:CG	2.08	1.27
9:Ad:13:LYS:CG	9:Ad:14:PHE:CD2	2.17	1.27
12:AR:44:LYS:HG3	12:AR:47:ARG:CZ	1.63	1.27
24:Ae:51:LYS:C	24:Ae:52:LYS:HD2	1.60	1.27
26:AJ:28:GLU:OE1	26:AJ:40:LYS:HD2	1.33	1.27
30:AF:63:LYS:CD	30:AF:71:ARG:NH1	1.98	1.27
42:CL:178:ALA:HB3	45:Ca:134:GLU:CD	1.58	1.27
45:Ca:108:TYR:O	45:Ca:109:TYR:HD1	1.10	1.27
46:CN:96:ARG:NH1	46:CN:104:GLU:CD	1.92	1.27
51:CA:117:GLU:HB3	51:CA:122:ASP:OD1	1.14	1.27
59:CZ:84:ARG:HG3	65:Cc:62:TYR:OH	1.32	1.27
60:Cr:76:SER:N	60:Cr:79:ARG:NH2	1.80	1.27
65:Cc:99:PRO:CG	65:Cc:105:ILE:CG1	2.12	1.27
74:CC:147:VAL:CG1	74:CC:152:LEU:CD2	2.10	1.27
85:A5:3749:C:C1'	85:A5:3749:C:O4'	1.64	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:512:LYS:CD	1:Az:569:PRO:HB2	1.65	1.26
8:AS:42:HIS:CD2	14:AT:45:LEU:HD21	1.68	1.26
9:Ad:22:ARG:NH2	23:AD:16:ILE:HD13	1.47	1.26
11:AL:22:ARG:CD	33:AI:157:LYS:HB2	1.64	1.26
11:AL:147:LYS:HG3	11:AL:148:ALA:CA	1.65	1.26
12:AR:44:LYS:HE3	12:AR:47:ARG:NH2	1.48	1.26
15:AB:137:LEU:HD21	15:AB:215:VAL:CG1	1.65	1.26
16:AA:176:TRP:CZ2	16:AA:195:TRP:HE3	1.06	1.26
18:AY:34:THR:O	18:AY:35:VAL:HG22	1.09	1.26
22:Ac:51:ARG:CB	30:AF:61:PHE:HZ	1.37	1.26
39:Cq:198:ILE:N	83:Cs:42:PHE:CE1	2.01	1.26
40:CK:94:LYS:CG	40:CK:96:LYS:HD2	1.64	1.26
44:CM:33:GLN:OE1	80:CH:61:TRP:CD2	1.87	1.26
50:CR:32:ILE:CD1	50:CR:44:LEU:CD1	2.13	1.26
51:CA:250:LYS:HA	51:CA:251:THR:C	1.44	1.26
60:Cr:113:ARG:O	60:Cr:117:ILE:CG1	1.81	1.26
79:CJ:163:MET:CE	79:CJ:174:ILE:CD1	2.13	1.26
79:CJ:175:LEU:CB	79:CJ:176:PRO:HD2	1.59	1.26
5:AO:52:THR:O	5:AO:53:ILE:HG23	1.28	1.26
8:AS:11:HIS:HD2	8:AS:23:ARG:NH2	1.31	1.26
12:AR:15:VAL:CG1	23:AD:210:ILE:HD12	1.62	1.26
30:AF:14:THR:CG2	34:AQ:56:LEU:HB3	1.64	1.26
39:Cq:120:GLU:OE1	39:Cq:159:GLN:NE2	1.65	1.26
40:CK:79:ALA:O	40:CK:83:LYS:HG3	1.17	1.26
45:Ca:47:LYS:O	45:Ca:49:HIS:N	1.68	1.26
48:CD:57:ASN:HA	48:CD:58:ARG:CD	1.64	1.26
51:CA:242:ARG:HH22	51:CA:247:ARG:NH2	1.33	1.26
54:CP:101:ASN:O	54:CP:105:LYS:HD3	1.28	1.26
63:CB:173:LEU:CD1	63:CB:342:LYS:HE2	1.63	1.26
64:CF:67:THR:OG1	64:CF:71:MET:HE2	1.29	1.26
67:Ce:6:PRO:CD	67:Ce:93:LYS:CB	2.11	1.26
81:CE:108:LYS:HE3	81:CE:108:LYS:CA	1.64	1.26
9:Ad:5:GLN:HB3	9:Ad:7:TYR:CD2	1.70	1.26
13:AP:126:VAL:CG1	13:AP:127:LYS:H	1.47	1.26
15:AB:52:THR:CG2	82:CG:264:LYS:HZ1	1.47	1.26
26:AJ:72:PHE:CD1	27:AE:248:ILE:CG1	2.16	1.26
33:AI:37:LYS:O	33:AI:59:ARG:HA	1.27	1.26
33:AI:161:LEU:CD1	33:AI:199:LEU:CD1	2.12	1.26
39:Cq:25:PRO:CG	39:Cq:92:LYS:HA	1.64	1.26
39:Cq:39:GLN:HE22	39:Cq:186:GLY:CA	1.48	1.26
40:CK:107:ASP:OD1	40:CK:143:VAL:CG1	1.81	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:177:LEU:CD2	44:CM:130:LEU:HD21	1.64	1.26
44:CM:60:PHE:CZ	44:CM:85:LYS:CG	2.16	1.26
48:CD:51:MET:CE	48:CD:173:ILE:CD1	2.11	1.26
63:CB:52:GLY:O	63:CB:78:ILE:CG1	1.83	1.26
74:CC:22:VAL:HG23	74:CC:258:ARG:CZ	1.63	1.26
83:Cs:11:TYR:CB	84:Cu:9:LEU:HD23	1.53	1.26
85:A5:2427:G:O4'	85:A5:2427:G:C1'	1.66	1.26
1:Az:402:VAL:CG2	1:Az:403:PRO:HD2	1.65	1.26
1:Az:740:LEU:CB	1:Az:831:PRO:HB3	1.64	1.26
4:AK:27:VAL:CG1	4:AK:43:LEU:CD2	1.94	1.26
26:Aj:17:ARG:CG	26:Aj:18:ARG:HG2	1.66	1.26
28:AC:256:TRP:HB3	32:AW:68:ARG:NH1	1.47	1.26
29:AG:176:ILE:CG2	29:AG:179:LEU:HD23	1.65	1.26
30:AF:14:THR:OG1	34:AQ:56:LEU:CB	1.83	1.26
40:CK:49:ALA:HA	40:CK:52:ASP:OD2	1.28	1.26
46:CN:64:ILE:CD1	46:CN:102:ALA:HA	1.64	1.26
48:CD:44:TYR:OH	53:CT:67:VAL:HG21	1.34	1.26
55:CU:21:PHE:CZ	55:CU:80:LYS:CE	2.18	1.26
57:CY:52:ASP:OD1	57:CY:69:LYS:HD3	1.30	1.26
59:CZ:57:MET:HE1	59:CZ:61:LYS:CB	1.65	1.26
63:CB:52:GLY:H	63:CB:78:ILE:CD1	1.46	1.26
67:Ce:5:ARG:CG	67:Ce:6:PRO:HD2	1.66	1.26
67:Ce:22:ARG:HH11	67:Ce:31:ILE:CG2	1.47	1.26
13:AP:79:HIS:CE1	13:AP:102:PHE:CZ	2.17	1.26
23:AD:2:ALA:HB3	23:AD:3:VAL:CA	1.65	1.26
24:Ae:31:ARG:CG	26:Aj:37:LEU:O	1.83	1.26
30:AF:42:LYS:CB	30:AF:45:TYR:H	1.48	1.26
34:AQ:25:CYS:SG	34:AQ:91:ALA:HB1	1.74	1.26
34:AQ:38:PRO:HD2	34:AQ:41:MET:SD	1.76	1.26
34:AQ:38:PRO:CG	34:AQ:41:MET:SD	2.23	1.26
39:Cq:236:SER:O	39:Cq:238:PRO:HD2	1.21	1.26
40:CK:2:PRO:N	40:CK:2:PRO:CB	1.97	1.26
42:CL:50:PRO:CA	42:CL:51:ALA:HB2	1.61	1.26
85:A5:1832:C:C1'	85:A5:1832:C:O4'	1.64	1.26
85:A5:2101:C:C1'	85:A5:2101:C:O4'	1.63	1.26
10:AN:19:ARG:HB3	31:AH:138:GLU:OE2	1.29	1.25
39:Cq:254:GLU:OE1	84:Cv:54:VAL:CG1	1.84	1.25
40:CK:22:VAL:HG21	40:CK:48:LYS:CB	1.59	1.25
46:CN:178:HIS:CA	46:CN:181:HIS:NE2	1.99	1.25
50:CR:10:LEU:HB3	50:CR:41:ILE:CD1	1.66	1.25
55:CU:40:GLU:OE2	55:CU:70:ILE:HG12	1.35	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:23:ARG:NH1	58:CW:29:PHE:HE2	1.32	1.25
83:Ct:11:TYR:HB2	84:Cv:9:LEU:CD2	1.64	1.25
85:A5:3706:C:O4'	85:A5:3706:C:C1'	1.63	1.25
1:Az:3:ASN:HA	1:Az:45:ILE:O	1.36	1.25
1:Az:481:LYS:NZ	1:Az:532:PRO:CB	1.99	1.25
8:AS:42:HIS:NE2	14:AT:45:LEU:HD21	0.94	1.25
16:AA:145:ILE:CD1	16:AA:159:ILE:HG21	1.64	1.25
34:AQ:34:VAL:CG2	34:AQ:39:LEU:HD23	1.65	1.25
52:CS:170:LYS:O	52:CS:172:PRO:HA	1.31	1.25
59:CZ:42:LEU:CD2	59:CZ:96:VAL:HG12	1.65	1.25
63:CB:80:GLU:OE1	63:CB:171:LEU:HD13	1.21	1.25
63:CB:92:TYR:CG	63:CB:99:LEU:HD11	1.72	1.25
74:CC:310:HIS:HB2	74:CC:311:ARG:CD	1.61	1.25
79:CJ:128:LEU:CD1	79:CJ:130:PHE:CD2	2.18	1.25
1:Az:739:ARG:NH1	1:Az:823:ASP:HB2	1.49	1.25
11:AL:71:ARG:HD3	11:AL:73:LEU:CD2	1.65	1.25
22:Ac:48:GLY:CA	30:AF:145:ARG:HG2	1.67	1.25
25:Af:135:HIS:CB	25:Af:138:ARG:CG	2.14	1.25
34:AQ:109:LYS:HG3	34:AQ:113:ILE:CD1	1.66	1.25
39:Cq:81:HIS:CD2	39:Cq:191:GLN:CG	2.17	1.25
39:Cq:262:ALA:O	39:Cq:264:LYS:HE2	1.36	1.25
40:CK:123:ARG:HB2	40:CK:128:THR:OG1	1.28	1.25
47:CI:205:PRO:O	47:CI:207:ASP:N	1.68	1.25
48:CD:210:TYR:CZ	48:CD:214:GLU:OE1	1.90	1.25
51:CA:209:HIS:CE1	51:CA:211:PHE:CD2	2.23	1.25
67:Ce:12:ILE:H	67:Ce:12:ILE:CD1	1.49	1.25
2:Ag:7:LEU:CD1	2:Ag:310:TRP:HE1	1.47	1.25
28:AC:166:ARG:NH1	28:AC:255:LEU:HD11	1.50	1.25
39:Cq:211:LEU:CD1	83:Cs:50:ALA:HB1	1.62	1.25
77:Cp:51:ALA:O	77:Cp:54:ILE:HG22	1.11	1.25
79:CJ:115:LEU:HD12	79:CJ:115:LEU:O	1.36	1.25
82:CG:21:LYS:O	82:CG:24:ALA:HB3	1.25	1.25
42:CL:167:ARG:NH2	42:CL:170:THR:CG2	1.98	1.25
52:CS:2:LYS:NZ	52:CS:43:ARG:CG	1.99	1.25
53:CT:12:ARG:CG	53:CT:13:TYR:CE2	2.17	1.25
62:Cb:12:GLN:O	62:Cb:16:TRP:CD1	1.89	1.25
62:Cb:69:ALA:O	62:Cb:72:ILE:HG22	1.32	1.25
1:Az:4:PHE:CD2	1:Az:5:THR:HG22	1.70	1.25
1:Az:165:LEU:HD12	1:Az:305:MET:CE	1.65	1.25
2:Ag:282:GLU:HG3	2:Ag:283:PRO:CD	1.64	1.25
8:AS:117:ILE:O	8:AS:118:ARG:HG2	1.12	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:10:ARG:NE	18:AY:24:VAL:HG11	1.50	1.25
29:AG:11:GLY:CA	58:CW:80:ARG:HH22	1.47	1.25
30:AF:25:THR:CG2	30:AF:42:LYS:CD	2.12	1.25
31:AH:83:LEU:CD1	31:AH:92:VAL:CG2	2.06	1.25
39:Cq:198:ILE:HB	83:Cs:42:PHE:CZ	1.71	1.25
40:CK:10:ILE:HG21	40:CK:66:ASN:N	1.49	1.25
57:CY:89:LYS:HD3	57:CY:90:ALA:N	1.48	1.25
63:CB:87:VAL:CG2	63:CB:163:ILE:HG23	1.67	1.25
65:Cc:44:LYS:HG3	65:Cc:97:ILE:O	1.34	1.25
78:Co:55:ILE:CD1	78:Co:56:PHE:N	1.97	1.25
79:CJ:90:ARG:NH2	79:CJ:108:GLY:O	1.68	1.25
82:CG:175:ARG:NH1	82:CG:176:LYS:HA	1.48	1.25
1:Az:58:ASP:OD1	1:Az:69:THR:HG23	1.27	1.25
1:Az:331:GLU:OE2	1:Az:335:LEU:HD22	1.30	1.25
1:Az:502:SER:CB	1:Az:504:VAL:HG13	1.65	1.25
1:Az:541:SER:O	1:Az:543:GLU:HG3	1.17	1.25
13:AP:10:ARG:HH21	13:AP:11:THR:CB	1.50	1.25
24:Ae:31:ARG:HG2	26:AJ:37:LEU:O	1.29	1.25
27:AE:208:VAL:CG2	27:AE:225:ILE:HD12	1.66	1.25
28:AC:259:THR:HG23	28:AC:261:PHE:N	1.51	1.25
30:AF:14:THR:CG2	34:AQ:56:LEU:CD2	1.76	1.25
39:Cq:168:GLY:HA3	39:Cq:171:GLU:OE1	1.24	1.25
40:CK:92:ARG:HA	40:CK:95:GLN:OE1	1.37	1.25
48:CD:152:ARG:CG	79:CJ:145:LYS:NZ	1.98	1.25
49:CQ:61:LEU:HD21	49:CQ:140:SER:C	1.61	1.25
60:Cr:42:GLY:CA	60:Cr:43:LEU:HD23	1.67	1.25
63:CB:355:THR:C	63:CB:356:LYS:CE	2.09	1.25
74:CC:63:SER:OG	74:CC:80:ARG:CD	1.85	1.25
75:Cm:77:ILE:O	75:Cm:78:ILE:HG22	1.21	1.25
82:CG:150:LYS:CB	82:CG:177:MET:HE2	1.66	1.25
84:Cv:7:TYR:CZ	84:Cv:42:VAL:CG1	2.20	1.25
1:Az:13:MET:CE	1:Az:464:VAL:HG13	1.65	1.24
8:AS:138:THR:HA	8:AS:141:ARG:NH2	0.92	1.24
21:Ab:81:ARG:HB2	21:Ab:82:LYS:CB	1.67	1.24
33:AI:116:HIS:O	33:AI:152:ARG:NH1	1.67	1.24
39:Cq:168:GLY:CA	39:Cq:171:GLU:OE1	1.83	1.24
47:CI:76:MET:CE	47:CI:148:VAL:HA	1.66	1.24
49:CQ:61:LEU:CD1	49:CQ:82:VAL:HG22	1.66	1.24
59:CZ:11:VAL:HG11	59:CZ:80:LEU:CB	1.67	1.24
74:CC:348:LYS:CA	74:CC:349:LEU:N	1.98	1.24
82:CG:243:GLY:O	82:CG:247:VAL:HG23	1.31	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:143:PRO:HB3	17:AV:34:MET:SD	1.76	1.24
22:Ac:47:LYS:HZ1	30:AF:141:VAL:CB	1.50	1.24
29:AG:25:ARG:HG2	29:AG:28:TYR:CE2	1.71	1.24
30:AF:28:VAL:HG13	30:AF:110:GLN:CD	1.60	1.24
31:AH:53:VAL:CG2	31:AH:57:ARG:O	1.86	1.24
32:AW:14:ILE:HD12	32:AW:72:CYS:SG	1.67	1.24
34:AQ:92:LEU:CD1	34:AQ:96:TYR:HE2	1.50	1.24
39:Cq:61:MET:HG2	39:Cq:82:ILE:CG2	1.66	1.24
49:CQ:154:LYS:HB2	49:CQ:155:ALA:C	1.61	1.24
55:CU:80:LYS:CG	55:CU:110:TYR:OH	1.84	1.24
66:Cd:42:ALA:HB1	66:Cd:73:TRP:CE2	1.72	1.24
67:Ce:6:PRO:CG	67:Ce:93:LYS:CB	2.14	1.24
74:CC:85:HIS:CA	74:CC:87:SER:H	1.47	1.24
82:CG:77:PRO:CA	82:CG:237:TRP:CE3	2.13	1.24
85:A5:4906:C:O4'	85:A5:4906:C:C1'	1.64	1.24
1:Az:79:TYR:CD2	1:Az:351:LEU:HD13	1.71	1.24
1:Az:762:VAL:HG11	1:Az:796:PHE:CE1	1.71	1.24
3:AU:59:LYS:HB2	3:AU:84:ILE:CG2	1.67	1.24
4:AK:83:LEU:CB	4:AK:85:LEU:CD2	2.15	1.24
6:AX:2:GLY:O	6:AX:3:LYS:HG3	1.23	1.24
9:Ad:13:LYS:HG2	9:Ad:14:PHE:CD2	1.72	1.24
18:AY:22:GLN:HB3	18:AY:74:MET:SD	1.78	1.24
39:Cq:182:PRO:HG2	39:Cq:183:PHE:CE2	1.72	1.24
40:CK:61:LYS:HE3	40:CK:72:GLU:CA	1.67	1.24
45:Ca:89:ASN:HB3	45:Ca:91:ALA:CA	1.66	1.24
45:Ca:125:LYS:HE3	45:Ca:147:VAL:CG2	1.65	1.24
47:CI:106:ALA:HB3	47:CI:108:ALA:CB	1.66	1.24
48:CD:271:MET:CE	48:CD:275:GLN:HB3	1.66	1.24
57:CY:84:ARG:O	57:CY:86:GLN:NE2	1.70	1.24
61:Ch:73:TYR:CD1	61:Ch:79:LYS:HG2	1.71	1.24
82:CG:32:PHE:O	82:CG:33:GLU:HG2	1.33	1.24
13:AP:49:LEU:O	13:AP:51:ARG:HA	1.31	1.24
15:AB:105:LEU:HD12	15:AB:110:MET:CE	1.66	1.24
18:AY:55:ILE:HG12	18:AY:75:ILE:CD1	1.66	1.24
47:CI:106:ALA:N	47:CI:108:ALA:HB2	1.50	1.24
57:CY:34:LEU:HD11	57:CY:38:LEU:CD1	1.67	1.24
59:CZ:10:VAL:O	59:CZ:83:THR:HG23	1.12	1.24
60:Cr:76:SER:O	60:Cr:79:ARG:NE	1.70	1.24
67:Ce:5:ARG:HG3	67:Ce:6:PRO:CD	1.67	1.24
81:CE:56:ARG:CD	81:CE:65:ARG:NH1	1.99	1.24
85:A5:2395:A:O4'	85:A5:2395:A:C1'	1.63	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:198:GLY:CA	1:Az:201:GLY:HA2	1.52	1.24
1:Az:206:ASP:CB	1:Az:207:PRO:CD	1.94	1.24
1:Az:481:LYS:CG	1:Az:482:THR:H	1.44	1.24
1:Az:825:PHE:CZ	1:Az:849:PRO:CD	2.18	1.24
17:AV:1:MET:CE	17:AV:10:ASP:HB2	1.68	1.24
21:Ab:8:LEU:CD2	32:AW:62:VAL:CG2	2.16	1.24
22:Ac:60:GLU:OE2	30:AF:204:ARG:HD2	1.19	1.24
23:AD:201:LYS:O	23:AD:203:PRO:HD2	1.08	1.24
31:AH:85:LYS:HD2	31:AH:85:LYS:C	1.62	1.24
34:AQ:57:LEU:HD11	34:AQ:115:TYR:CZ	1.71	1.24
39:Cq:119:CYS:CA	39:Cq:163:THR:HG22	1.68	1.24
40:CK:10:ILE:CB	40:CK:66:ASN:HA	1.68	1.24
40:CK:38:SER:CB	40:CK:39:PRO:HD3	1.66	1.24
42:CL:126:LEU:H	42:CL:138:ASP:CG	1.45	1.24
44:CM:77:TRP:CD1	44:CM:82:ILE:CG1	2.18	1.24
46:CN:77:LYS:HD2	46:CN:77:LYS:O	1.38	1.24
49:CQ:30:LYS:NZ	60:Cr:8:MET:HE3	1.53	1.24
49:CQ:103:LEU:CD2	49:CQ:123:PHE:CE2	2.21	1.24
58:CW:86:SER:O	58:CW:90:ILE:CG1	1.85	1.24
58:CW:87:LEU:CD2	58:CW:90:ILE:CD1	2.10	1.24
61:Ch:96:ASN:O	61:Ch:100:GLU:HG3	1.36	1.24
63:CB:165:HIS:CB	63:CB:180:LEU:HD12	1.68	1.24
69:Cg:41:ALA:CB	69:Cg:52:ARG:CD	2.12	1.24
77:Cp:27:LYS:HD3	77:Cp:28:LYS:N	1.51	1.24
82:CG:211:ASP:OD1	82:CG:214:ALA:HB3	1.31	1.24
84:Cu:7:TYR:CE1	84:Cu:23:ILE:HD11	1.71	1.24
86:A7:37:G:O4'	86:A7:37:G:C1'	1.63	1.24
1:Az:502:SER:OG	1:Az:811:GLN:HG3	1.28	1.23
4:AK:3:MET:HE1	4:AK:8:ARG:CZ	1.66	1.23
4:AK:60:GLU:CD	4:AK:67:PHE:CD1	2.14	1.23
4:AK:71:LEU:CD2	4:AK:76:ILE:HD13	1.67	1.23
8:AS:42:HIS:CD2	14:AT:45:LEU:CG	2.19	1.23
12:AR:5:ARG:O	12:AR:10:LYS:HE2	1.27	1.23
18:AY:18:LEU:HB3	18:AY:20:ARG:NH1	1.51	1.23
23:AD:218:LEU:CG	23:AD:220:THR:HG23	1.69	1.23
30:AF:59:LYS:CD	30:AF:62:ARG:NH2	1.98	1.23
30:AF:91:ARG:NH1	30:AF:94:LYS:HB2	1.46	1.23
33:AI:144:LYS:O	33:AI:145:ILE:HG12	1.30	1.23
35:Ah:291:ASP:OD1	35:Ah:294:LYS:CE	1.84	1.23
40:CK:94:LYS:CG	40:CK:96:LYS:CD	2.15	1.23
50:CR:31:GLU:OE2	55:CU:125:GLU:HB3	1.36	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CT:143:THR:O	53:CT:146:LYS:CA	1.86	1.23
63:CB:153:MET:HE3	63:CB:160:ILE:CD1	1.66	1.23
66:Cd:39:LYS:NZ	66:Cd:78:ARG:NH2	1.86	1.23
81:CE:106:VAL:HG23	81:CE:107:VAL:CB	1.68	1.23
83:Cs:31:LEU:HD22	84:Cu:30:VAL:CG2	1.58	1.23
2:Ag:65:PHE:CZ	12:AR:29:HIS:CE1	2.26	1.23
4:AK:83:LEU:CB	4:AK:85:LEU:HD21	1.66	1.23
13:AP:128:HIS:CE1	36:B2:1521:C:H1'	1.72	1.23
16:AA:176:TRP:CZ2	16:AA:195:TRP:CE3	1.94	1.23
24:Ae:50:GLY:O	24:Ae:51:LYS:HG3	1.38	1.23
33:AI:141:ARG:CD	33:AI:144:LYS:HB3	1.67	1.23
39:Cq:257:TYR:OH	84:Cv:46:LEU:HG	1.12	1.23
40:CK:10:ILE:HG22	40:CK:65:GLN:C	1.62	1.23
44:CM:41:PRO:HG2	44:CM:73:VAL:CG2	1.66	1.23
45:Ca:84:GLU:HA	45:Ca:87:ARG:CG	1.67	1.23
55:CU:39:PHE:CE2	55:CU:70:ILE:HD12	1.73	1.23
56:CX:60:TYR:CE2	61:Ch:84:ARG:NH2	2.05	1.23
57:CY:34:LEU:CD1	57:CY:38:LEU:CB	2.15	1.23
59:CZ:26:VAL:HA	59:CZ:89:ILE:CD1	1.67	1.23
63:CB:54:THR:O	63:CB:76:VAL:HG23	1.09	1.23
65:Cc:99:PRO:CG	65:Cc:105:ILE:HG13	1.67	1.23
70:Ci:81:ILE:CG2	70:Ci:85:ARG:NH1	1.99	1.23
10:AN:46:THR:OG1	10:AN:49:GLN:CG	1.86	1.23
28:AC:94:ILE:CD1	28:AC:162:ILE:HD12	1.66	1.23
33:AI:141:ARG:CD	33:AI:144:LYS:CB	2.15	1.23
40:CK:9:GLU:CG	40:CK:10:ILE:H	1.26	1.23
42:CL:191:LEU:CD2	42:CL:194:ILE:HD12	1.67	1.23
59:CZ:73:LYS:HE2	59:CZ:75:TYR:CE1	1.72	1.23
63:CB:264:PHE:HD2	63:CB:265:SER:N	1.37	1.23
63:CB:356:LYS:HE2	63:CB:356:LYS:CA	1.64	1.23
64:CF:30:ILE:CG2	64:CF:34:ARG:NE	2.02	1.23
68:Cf:11:PHE:CD2	68:Cf:97:ILE:HD13	1.71	1.23
79:CJ:175:LEU:HB3	79:CJ:176:PRO:CD	1.66	1.23
1:Az:571:LYS:HE2	1:Az:572:LYS:N	1.49	1.23
2:Ag:7:LEU:CD1	2:Ag:310:TRP:NE1	2.02	1.23
4:AK:71:LEU:CD2	4:AK:76:ILE:CD1	2.17	1.23
6:AX:11:ARG:HB2	11:AL:103:GLU:OE1	1.07	1.23
12:AR:1:MET:N	12:AR:1:MET:C	1.95	1.23
16:AA:154:LEU:HD12	17:AV:63:GLY:O	1.09	1.23
27:AE:62:LYS:CD	27:AE:80:ILE:HD11	1.68	1.23
34:AQ:42:ILE:CD1	34:AQ:51:LEU:CD2	2.10	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:399:C:O4'	36:B2:399:C:C1'	1.64	1.23
48:CD:22:ARG:HG2	48:CD:28:THR:OG1	1.34	1.23
48:CD:273:LEU:CD1	48:CD:277:LYS:HE3	1.69	1.23
51:CA:120:PRO:CD	51:CA:162:ASN:OD1	1.87	1.23
52:CS:170:LYS:C	52:CS:172:PRO:HA	1.62	1.23
58:CW:20:ARG:NH1	58:CW:28:VAL:CG1	1.95	1.23
83:Cs:11:TYR:CB	84:Cu:9:LEU:HD21	1.60	1.23
1:Az:113:SER:CA	1:Az:499:PHE:HB2	1.67	1.23
1:Az:762:VAL:HG13	1:Az:766:LYS:NZ	1.51	1.23
19:AZ:48:VAL:O	19:AZ:83:LEU:HD11	1.36	1.23
22:Ac:47:LYS:NZ	30:AF:141:VAL:HB	1.53	1.23
23:AD:46:THR:OG1	23:AD:79:PHE:CZ	1.82	1.23
23:AD:47:GLU:CG	23:AD:85:GLU:OE2	1.85	1.23
29:AG:32:MET:HE1	29:AG:100:CYS:CA	1.69	1.23
32:AW:18:GLU:OE2	32:AW:67:GLY:HA2	1.37	1.23
36:B2:1283:C:C1'	36:B2:1283:C:O4'	1.64	1.23
40:CK:102:GLY:HA2	40:CK:139:VAL:CA	1.69	1.23
44:CM:32:ASP:HA	52:CS:145:PHE:CZ	1.73	1.23
44:CM:41:PRO:CG	44:CM:73:VAL:HG21	1.69	1.23
44:CM:107:PHE:HE1	81:CE:270:TYR:CB	1.50	1.23
68:Cf:11:PHE:CE2	68:Cf:97:ILE:CD1	2.21	1.23
70:Ci:43:MET:CE	82:CG:173:LEU:CD2	2.03	1.23
71:Cj:85:LYS:N	71:Cj:86:PRO:CD	2.01	1.23
74:CC:63:SER:CB	74:CC:80:ARG:HH11	1.52	1.23
74:CC:124:ILE:CG1	74:CC:237:ILE:CG1	2.15	1.23
80:CH:89:ARG:HH21	80:CH:91:LYS:CE	1.50	1.23
82:CG:162:ASP:CB	82:CG:163:PRO:HD3	1.55	1.23
82:CG:163:PRO:HG2	82:CG:166:LEU:CD1	1.67	1.23
1:Az:45:ILE:CG2	1:Az:78:PHE:H	1.47	1.22
4:AK:65:ARG:NH1	4:AK:65:ARG:HB3	1.51	1.22
7:AM:98:GLY:O	7:AM:100:PRO:HD3	1.36	1.22
8:AS:46:ARG:CZ	14:AT:50:GLU:HB3	1.66	1.22
11:AL:156:GLN:OE1	11:AL:158:PHE:CE2	1.92	1.22
28:AC:153:GLY:O	28:AC:156:ILE:HG22	1.32	1.22
28:AC:171:GLY:C	28:AC:172:ASN:HD22	1.45	1.22
29:AG:11:GLY:CA	58:CW:80:ARG:NH2	2.02	1.22
29:AG:63:MET:CE	29:AG:106:LEU:CD1	2.17	1.22
38:Cz:26:ARG:NE	38:Cz:210:MET:SD	2.11	1.22
40:CK:48:LYS:O	40:CK:52:ASP:OD1	1.53	1.22
40:CK:102:GLY:HA2	40:CK:139:VAL:CG1	1.67	1.22
40:CK:125:LEU:HD13	40:CK:163:PRO:CA	1.68	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:122:ALA:HB2	52:CS:161:ARG:CB	1.69	1.22
44:CM:47:ARG:NH2	44:CM:68:ALA:HB3	1.54	1.22
44:CM:77:TRP:CG	44:CM:82:ILE:HG13	1.73	1.22
52:CS:164:LYS:CE	52:CS:165:PRO:HD3	1.69	1.22
60:Cr:64:ILE:CD1	60:Cr:81:THR:HG21	1.69	1.22
61:Ch:73:TYR:CB	61:Ch:79:LYS:HE2	1.66	1.22
63:CB:47:LEU:HD11	63:CB:344:VAL:CG1	1.69	1.22
66:Cd:19:GLU:O	66:Cd:20:VAL:HG23	1.37	1.22
2:Ag:65:PHE:CZ	12:AR:29:HIS:NE2	2.07	1.22
10:AN:25:TRP:HB3	21:Ab:83:GLN:CG	1.69	1.22
10:AN:53:ILE:CD1	21:Ab:52:THR:HG21	1.68	1.22
11:AL:12:LYS:NZ	33:AI:194:GLU:HG2	1.53	1.22
13:AP:46:ASN:O	13:AP:49:LEU:HB2	1.11	1.22
15:AB:57:ILE:CD1	15:AB:60:ASP:OD1	1.88	1.22
18:AY:120:THR:HB	18:AY:122:LYS:CE	1.67	1.22
40:CK:14:TYR:CE2	40:CK:63:THR:OG1	1.90	1.22
42:CL:182:LEU:CD1	45:Ca:129:PHE:HE2	1.36	1.22
48:CD:42:ASN:OD1	53:CT:67:VAL:HG12	1.11	1.22
56:CX:81:LEU:CD2	56:CX:99:ILE:CD1	2.14	1.22
81:CE:285:LYS:O	81:CE:287:VAL:CG1	1.87	1.22
1:Az:160:MET:HE3	1:Az:178:PHE:CZ	1.73	1.22
2:Ag:194:TYR:HE2	2:Ag:212:LYS:CD	1.42	1.22
10:AN:24:THR:CG2	21:Ab:84:HIS:HE1	1.50	1.22
11:AL:118:ARG:HD2	11:AL:118:ARG:O	1.38	1.22
18:AY:54:VAL:HG11	18:AY:76:TYR:O	1.35	1.22
27:AE:62:LYS:HD3	27:AE:80:ILE:CD1	1.67	1.22
34:AQ:34:VAL:CG2	34:AQ:39:LEU:CD2	2.15	1.22
39:Cq:111:ALA:CB	39:Cq:183:PHE:CD2	2.20	1.22
43:CV:110:GLY:HA3	43:CV:129:TRP:CZ3	1.74	1.22
48:CD:79:TYR:CB	48:CD:81:HIS:CE1	2.21	1.22
58:CW:87:LEU:O	58:CW:90:ILE:HB	1.32	1.22
63:CB:115:LYS:O	63:CB:115:LYS:HE2	1.37	1.22
65:Cc:37:MET:SD	65:Cc:97:ILE:CG1	2.27	1.22
66:Cd:12:LYS:HD2	66:Cd:13:GLY:CA	1.69	1.22
77:Cp:50:ARG:HH11	77:Cp:54:ILE:CD1	1.51	1.22
80:CH:109:GLY:O	80:CH:128:MET:O	1.55	1.22
81:CE:46:ARG:NE	81:CE:47:ASN:H	1.35	1.22
81:CE:47:ASN:HB3	81:CE:48:PRO:CD	1.66	1.22
85:A5:4696:C:O4'	85:A5:4696:C:C1'	1.64	1.22
2:Ag:150:TRP:CZ2	12:AR:33:ARG:HB3	1.74	1.22
14:AT:77:LYS:CG	14:AT:92:PHE:HE2	1.47	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:159:THR:CG2	27:AE:227:VAL:CG2	2.16	1.22
28:AC:57:ASP:O	28:AC:58:LYS:HD2	1.34	1.22
38:Cz:209:THR:O	38:Cz:210:MET:HA	1.33	1.22
44:CM:12:VAL:HG22	44:CM:58:THR:OG1	1.10	1.22
46:CN:46:ASP:CB	46:CN:50:ARG:NH1	1.97	1.22
50:CR:128:LYS:NZ	85:A5:2668:G:OP1	1.70	1.22
62:Cb:75:LEU:CD1	62:Cb:79:LYS:HE2	1.69	1.22
66:Cd:116:ASN:O	66:Cd:117:LEU:HD13	1.32	1.22
68:Cf:11:PHE:HE2	68:Cf:97:ILE:CD1	1.51	1.22
79:CJ:169:LYS:O	79:CJ:171:ASP:N	1.72	1.22
1:Az:331:GLU:OE2	1:Az:335:LEU:CD2	1.86	1.22
2:Ag:8:ARG:HA	2:Ag:8:ARG:NE	1.43	1.22
11:AL:22:ARG:CZ	33:AI:157:LYS:HB3	1.68	1.22
16:AA:11:LYS:CG	16:AA:13:GLU:HG2	1.70	1.22
19:AZ:44:LEU:HD13	19:AZ:44:LEU:C	1.64	1.22
23:AD:35:SER:HA	23:AD:99:ILE:CD1	1.69	1.22
30:AF:76:MET:CE	30:AF:169:ILE:HG21	1.68	1.22
39:Cq:26:LYS:HE2	39:Cq:94:ASP:O	1.36	1.22
39:Cq:241:ILE:CG2	39:Cq:245:TYR:CE2	2.21	1.22
40:CK:102:GLY:CA	40:CK:139:VAL:CG1	2.18	1.22
44:CM:12:VAL:CG1	44:CM:60:PHE:O	1.88	1.22
57:CY:49:ILE:HD12	57:CY:101:PRO:CB	1.70	1.22
60:Cr:64:ILE:CD1	60:Cr:81:THR:CG2	2.17	1.22
63:CB:140:GLU:CG	63:CB:144:LYS:HZ2	1.52	1.22
67:Ce:6:PRO:CG	67:Ce:93:LYS:HB3	1.68	1.22
18:AY:19:GLN:HG2	18:AY:81:TYR:CD1	1.75	1.21
22:Ac:10:LYS:HD2	22:Ac:61:SER:CB	1.70	1.21
26:AJ:61:LEU:CD2	26:AJ:98:LEU:HD11	1.68	1.21
27:AE:47:PHE:CE2	27:AE:52:LEU:HD11	1.74	1.21
28:AC:210:PRO:HB3	28:AC:236:PHE:CZ	1.73	1.21
29:AG:1:MET:HE2	29:AG:106:LEU:O	1.29	1.21
30:AF:18:LYS:NZ	30:AF:46:ALA:O	1.74	1.21
30:AF:91:ARG:NE	30:AF:91:ARG:HA	1.42	1.21
34:AQ:8:GLN:HG2	34:AQ:99:TYR:CD1	1.73	1.21
39:Cq:39:GLN:NE2	39:Cq:107:VAL:CG2	2.03	1.21
39:Cq:257:TYR:HE1	84:Cv:42:VAL:CA	1.51	1.21
40:CK:10:ILE:CG1	40:CK:67:ARG:N	1.92	1.21
52:CS:134:ALA:O	52:CS:136:LYS:HE3	1.37	1.21
53:CT:135:PRO:O	53:CT:136:ARG:HG3	1.06	1.21
62:Cb:55:LYS:NZ	62:Cb:59:ALA:HB2	1.53	1.21
63:CB:52:GLY:O	63:CB:78:ILE:HG12	1.37	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:356:LYS:HE2	63:CB:356:LYS:N	1.54	1.21
64:CF:51:TYR:CE2	81:CE:58:SER:HB2	1.74	1.21
65:Cc:11:LEU:HA	65:Cc:12:GLU:CB	1.68	1.21
66:Cd:39:LYS:HZ3	66:Cd:78:ARG:NH2	1.38	1.21
69:Cg:5:LEU:CD2	69:Cg:22:LEU:CD1	2.17	1.21
82:CG:28:VAL:CA	82:CG:31:LEU:CD2	2.17	1.21
85:A5:736:C:C1'	85:A5:736:C:O4'	1.67	1.21
1:Az:13:MET:CE	1:Az:465:PRO:HD2	1.69	1.21
1:Az:45:ILE:CG2	1:Az:78:PHE:N	1.85	1.21
2:Ag:194:TYR:CZ	2:Ag:212:LYS:HD3	1.75	1.21
4:AK:40:VAL:HG22	4:AK:41:PRO:CD	1.69	1.21
7:AM:78:LYS:O	7:AM:79:VAL:HG23	1.06	1.21
8:AS:8:LYS:CB	8:AS:9:PHE:HD1	1.53	1.21
23:AD:157:MET:HE1	23:AD:187:LYS:CD	1.68	1.21
26:AJ:89:GLU:CA	26:AJ:92:MET:SD	2.28	1.21
34:AQ:50:LYS:NZ	34:AQ:85:ARG:NH2	1.88	1.21
34:AQ:93:VAL:HG13	34:AQ:105:LYS:CD	1.69	1.21
48:CD:271:MET:CE	48:CD:275:GLN:CB	2.18	1.21
56:CX:89:LYS:NZ	56:CX:137:TYR:HD1	1.36	1.21
64:CF:51:TYR:CE2	81:CE:58:SER:O	1.92	1.21
70:CI:25:ARG:HG3	70:CI:28:ARG:NH2	1.55	1.21
75:Cm:94:MET:CE	75:Cm:123:PRO:N	2.02	1.21
1:Az:481:LYS:HZ1	1:Az:532:PRO:CB	1.52	1.21
1:Az:503:PRO:O	1:Az:505:VAL:N	1.73	1.21
4:AK:16:PHE:CD2	4:AK:79:LEU:CB	2.23	1.21
5:AO:95:ILE:CD1	5:AO:116:LEU:HD21	1.67	1.21
22:Ac:51:ARG:HB2	30:AF:61:PHE:CZ	1.59	1.21
27:AE:212:ASP:OD1	27:AE:216:ASN:HB2	1.41	1.21
30:AF:36:GLN:HG3	30:AF:37:ASP:OD1	1.36	1.21
39:Cq:233:THR:C	84:Cu:1:MET:HG3	1.64	1.21
47:CI:86:HIS:CD2	47:CI:139:ARG:NH1	2.09	1.21
48:CD:51:MET:HE1	48:CD:173:ILE:CG1	1.70	1.21
49:CQ:151:HIS:CE1	49:CQ:164:LYS:HB3	1.75	1.21
52:CS:19:THR:CB	52:CS:20:PRO:HD2	1.47	1.21
57:CY:11:ARG:NH1	74:CC:200:ARG:HH11	1.36	1.21
57:CY:49:ILE:CD1	57:CY:101:PRO:CB	2.17	1.21
57:CY:110:LYS:C	57:CY:115:ARG:NH1	1.96	1.21
65:Cc:13:SER:HB3	65:Cc:17:ARG:CZ	1.67	1.21
74:CC:348:LYS:O	74:CC:349:LEU:N	1.72	1.21
80:CH:45:LEU:CD2	80:CH:57:VAL:CG1	2.18	1.21
82:CG:77:PRO:CB	82:CG:237:TRP:CZ3	2.22	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:710:HIS:CD2	1:Az:715:HIS:HB2	1.75	1.21
2:Ag:57:ARG:NH2	34:AQ:98:LYS:O	1.72	1.21
4:AK:14:LEU:CD2	4:AK:35:LEU:CD2	2.18	1.21
6:AX:60:LYS:HG3	6:AX:116:PRO:CG	1.68	1.21
7:AM:13:ASP:CB	7:AM:16:THR:HB	1.62	1.21
18:AY:22:GLN:CB	18:AY:74:MET:SD	2.29	1.21
22:Ac:67:ARG:C	22:Ac:68:LEU:HD23	1.66	1.21
23:AD:158:ILE:HD11	23:AD:189:MET:CE	1.54	1.21
25:Af:135:HIS:CB	25:Af:138:ARG:HG3	1.70	1.21
26:AJ:92:MET:O	26:AJ:93:LYS:HE3	1.40	1.21
31:AH:146:VAL:CG2	32:AW:50:PHE:CE1	2.22	1.21
32:AW:11:LEU:O	32:AW:14:ILE:HG12	1.38	1.21
39:Cq:215:PHE:CE1	83:Cs:14:LEU:CD2	2.23	1.21
45:Ca:119:LYS:O	45:Ca:140:VAL:HG13	1.24	1.21
46:CN:72:LYS:CE	46:CN:90:ASN:HD22	1.52	1.21
54:CP:6:LEU:CD2	54:CP:116:HIS:CD2	2.17	1.21
55:CU:21:PHE:CE1	55:CU:80:LYS:CE	2.22	1.21
64:CF:30:ILE:HG21	64:CF:34:ARG:CZ	1.69	1.21
78:Co:65:LYS:C	78:Co:66:ILE:HG23	1.47	1.21
83:Cs:7:LEU:N	84:Cu:12:LEU:CD1	2.04	1.21
83:Ct:11:TYR:CD2	84:Cv:12:LEU:HD11	1.69	1.21
5:AO:88:LEU:HD13	15:AB:25:PHE:CE2	1.62	1.21
12:AR:85:VAL:HG21	16:AA:201:LEU:CB	1.64	1.21
12:AR:85:VAL:CG1	16:AA:198:MET:HB2	1.69	1.21
15:AB:113:MET:CE	15:AB:209:ASP:OD1	1.86	1.21
26:AJ:15:THR:CG2	26:AJ:44:TRP:CZ3	2.23	1.21
29:AG:129:VAL:O	58:CW:80:ARG:NE	1.70	1.21
31:AH:93:VAL:CG2	31:AH:94:PHE:H	1.43	1.21
39:Cq:168:GLY:O	39:Cq:171:GLU:HG2	1.40	1.21
49:CQ:151:HIS:ND1	49:CQ:164:LYS:HB3	1.56	1.21
52:CS:30:MET:HE1	52:CS:47:PHE:CG	1.76	1.21
59:CZ:92:ASP:CA	59:CZ:117:LYS:HZ3	1.54	1.21
66:Cd:42:ALA:CB	66:Cd:73:TRP:CE2	2.24	1.21
70:Ci:23:LYS:CB	70:Ci:24:PRO:HD3	1.66	1.21
79:CJ:95:ARG:NH1	79:CJ:97:ASN:OD1	1.73	1.21
1:Az:45:ILE:HG21	1:Az:77:LEU:C	1.66	1.20
1:Az:72:SER:C	1:Az:104:ASP:HB3	1.64	1.20
1:Az:103:ILE:CG1	1:Az:122:THR:HG21	1.70	1.20
1:Az:756:VAL:O	1:Az:759:ILE:HG22	1.34	1.20
15:AB:57:ILE:HD13	15:AB:60:ASP:CG	1.64	1.20
18:AY:118:ARG:NH2	29:AG:85:ARG:CD	2.03	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:218:LEU:CD1	23:AD:220:THR:HG21	1.71	1.20
28:AC:227:ARG:HD2	28:AC:228:GLY:N	1.55	1.20
33:AI:141:ARG:CB	33:AI:144:LYS:CB	2.17	1.20
35:Ah:155:ARG:HB3	35:Ah:159:ASP:OD1	1.37	1.20
40:CK:142:ASN:HB2	40:CK:147:HIS:O	1.04	1.20
42:CL:19:GLN:HB3	42:CL:20:ARG:NH1	1.52	1.20
44:CM:120:ASN:O	44:CM:123:ILE:HG22	1.41	1.20
47:CI:80:CYS:SG	47:CI:147:HIS:CG	2.34	1.20
47:CI:193:ASP:OD2	47:CI:198:LYS:CG	1.88	1.20
51:CA:77:ILE:CD1	51:CA:128:ARG:NH2	2.04	1.20
52:CS:74:ARG:O	52:CS:76:LYS:CG	1.87	1.20
56:CX:89:LYS:NZ	56:CX:97:VAL:CG2	2.03	1.20
57:CY:53:ASP:OD1	57:CY:110:LYS:N	1.73	1.20
82:CG:104:PRO:C	82:CG:105:GLU:HG3	1.62	1.20
11:AL:149:ALA:CB	11:AL:156:GLN:HG2	1.55	1.20
12:AR:88:VAL:CG2	16:AA:198:MET:HB3	1.70	1.20
12:AR:105:MET:O	12:AR:109:LEU:HG	1.40	1.20
22:Ac:51:ARG:HB3	30:AF:61:PHE:CE1	1.76	1.20
29:AG:180:VAL:O	29:AG:181:THR:HG22	1.41	1.20
36:B2:1597:C:H4'	36:B2:1603:G:O6	1.41	1.20
39:Cq:39:GLN:HE21	39:Cq:107:VAL:CG2	1.52	1.20
41:CO:192:TYR:CD2	44:CM:122:ILE:HD13	1.75	1.20
50:CR:123:LEU:HD11	50:CR:138:LEU:CD2	1.71	1.20
56:CX:52:LEU:CD1	56:CX:54:LEU:N	2.04	1.20
63:CB:92:TYR:CD2	63:CB:99:LEU:HD11	1.72	1.20
78:Co:83:LEU:HD13	78:Co:83:LEU:O	1.37	1.20
84:Cv:7:TYR:OH	84:Cv:42:VAL:HB	1.37	1.20
1:Az:628:LEU:HD23	1:Az:631:ARG:NH2	1.39	1.20
1:Az:777:ALA:O	1:Az:779:THR:N	1.73	1.20
11:AL:17:PHE:CZ	11:AL:18:GLN:O	1.94	1.20
11:AL:22:ARG:HD2	33:AI:155:ASN:O	1.30	1.20
12:AR:38:ILE:O	23:AD:211:VAL:HG23	1.37	1.20
23:AD:218:LEU:HG	23:AD:220:THR:CG2	1.69	1.20
27:AE:21:ASP:OD2	27:AE:24:THR:CG2	1.90	1.20
27:AE:126:VAL:HG13	27:AE:158:ASP:O	1.35	1.20
28:AC:227:ARG:NH1	28:AC:228:GLY:HA2	1.54	1.20
33:AI:136:ILE:HG23	33:AI:139:LYS:CE	1.70	1.20
39:Cq:36:GLY:O	39:Cq:38:LYS:N	1.74	1.20
40:CK:63:THR:HA	40:CK:71:ILE:O	1.35	1.20
46:CN:136:ASP:HB2	46:CN:139:HIS:CD2	1.77	1.20
53:CT:134:PRO:HB2	53:CT:135:PRO:CD	1.65	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:16:LYS:CG	54:CP:149:ILE:HG12	1.69	1.20
57:CY:34:LEU:CG	57:CY:38:LEU:HB2	1.71	1.20
69:Cg:76:ARG:HG2	69:Cg:77:ALA:N	1.40	1.20
74:CC:7:LEU:N	74:CC:24:LEU:CD2	2.03	1.20
74:CC:91:ALA:HB1	74:CC:92:PHE:CD2	1.74	1.20
74:CC:261:ASP:O	74:CC:264:TYR:O	1.60	1.20
82:CG:151:LYS:O	82:CG:205:THR:HG22	1.04	1.20
85:A5:2670:C:O4'	85:A5:2670:C:C1'	1.64	1.20
1:Az:692:LEU:HD12	1:Az:824:PRO:CB	1.72	1.20
1:Az:745:TYR:CZ	1:Az:746:LEU:HB3	1.77	1.20
6:AX:126:ALA:CB	6:AX:128:VAL:HB	1.71	1.20
11:AL:149:ALA:CB	11:AL:156:GLN:HE21	1.55	1.20
18:AY:114:MET:HA	18:AY:124:ASN:ND2	1.54	1.20
28:AC:210:PRO:CB	28:AC:236:PHE:HZ	1.54	1.20
30:AF:14:THR:OG1	34:AQ:56:LEU:HB2	1.35	1.20
40:CK:94:LYS:HG2	40:CK:96:LYS:CB	1.70	1.20
42:CL:129:ARG:NH2	61:Ch:115:PRO:CG	1.97	1.20
45:Ca:119:LYS:O	45:Ca:120:GLN:HG3	1.03	1.20
48:CD:262:LYS:CD	48:CD:266:TRP:HE1	1.54	1.20
57:CY:50:ARG:HD3	57:CY:51:LYS:N	1.55	1.20
63:CB:297:LYS:HD2	63:CB:300:LYS:NZ	1.55	1.20
66:Cd:58:GLY:C	66:Cd:60:PRO:HD3	1.66	1.20
69:Cg:76:ARG:CG	69:Cg:77:ALA:H	1.53	1.20
74:CC:147:VAL:HG11	74:CC:152:LEU:CD2	1.70	1.20
74:CC:318:PRO:HB2	74:CC:325:MET:SD	1.82	1.20
83:Cs:11:TYR:C	84:Cu:9:LEU:HD21	1.67	1.20
83:Cs:16:LEU:CD2	83:Cs:31:LEU:HD11	1.71	1.20
1:Az:610:PRO:HB2	1:Az:613:LEU:HG	1.22	1.20
1:Az:777:ALA:O	1:Az:780:PRO:N	1.73	1.20
2:Ag:65:PHE:HZ	12:AR:29:HIS:NE2	1.40	1.20
2:Ag:144:ASP:C	2:Ag:145:GLU:HG2	1.63	1.20
2:Ag:162:ASN:ND2	2:Ag:163:PRO:HD2	1.57	1.20
2:Ag:261:LEU:O	2:Ag:264:LYS:CE	1.89	1.20
5:AO:61:LYS:O	5:AO:62:VAL:HG23	1.41	1.20
11:AL:149:ALA:CB	11:AL:156:GLN:NE2	2.05	1.20
13:AP:41:GLN:HE21	13:AP:84:ILE:CB	1.54	1.20
16:AA:118:GLU:CB	28:AC:65:LYS:HZ1	1.53	1.20
38:Cz:150:GLU:HA	38:Cz:154:THR:HG22	1.22	1.20
39:Cq:116:ILE:CG2	39:Cq:166:LYS:NZ	2.05	1.20
41:CO:119:VAL:O	52:CS:167:PHE:HA	1.39	1.20
46:CN:7:ILE:CB	46:CN:46:ASP:OD2	1.87	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:99:GLN:HG3	46:CN:130:PHE:CE1	1.76	1.20
57:CY:47:MET:HE3	57:CY:48:PRO:CD	1.71	1.20
62:Cb:37:PRO:O	62:Cb:39:PHE:N	1.74	1.20
63:CB:40:PRO:CB	63:CB:42:HIS:CD2	1.95	1.20
74:CC:63:SER:HB2	74:CC:80:ARG:NH1	1.55	1.20
78:Co:61:LYS:CG	78:Co:87:ARG:NH2	2.04	1.20
79:CJ:22:LEU:HD22	79:CJ:130:PHE:CE2	1.77	1.20
80:CH:110:SER:HB3	80:CH:128:MET:CB	1.70	1.20
81:CE:202:ASP:O	81:CE:260:LYS:HD3	1.37	1.20
83:Cs:31:LEU:CD2	84:Cu:30:VAL:HG23	1.58	1.20
1:Az:609:PHE:CZ	1:Az:661:ILE:HD12	1.76	1.19
5:AO:56:VAL:CG1	5:AO:81:VAL:CG2	2.18	1.19
7:AM:85:LEU:HA	7:AM:88:TRP:CE3	1.77	1.19
12:AR:44:LYS:CE	12:AR:47:ARG:NH2	1.98	1.19
23:AD:55:THR:O	23:AD:58:VAL:HG22	1.41	1.19
23:AD:178:ARG:NH1	36:B2:628:A:C2	2.11	1.19
33:AI:161:LEU:CD1	33:AI:199:LEU:HD11	1.67	1.19
41:CO:65:ASN:ND2	41:CO:68:ARG:HD2	1.55	1.19
48:CD:51:MET:HE1	48:CD:173:ILE:HD13	1.24	1.19
56:CX:119:ILE:HD12	56:CX:120:ASP:N	1.57	1.19
58:CW:86:SER:OG	58:CW:89:ASP:CB	1.89	1.19
60:Cr:82:ILE:HD12	60:Cr:82:ILE:N	1.44	1.19
63:CB:47:LEU:CD2	63:CB:166:THR:CG2	2.20	1.19
64:CF:162:ILE:HG21	64:CF:177:ARG:HH22	1.06	1.19
67:Ce:6:PRO:CG	67:Ce:93:LYS:HE2	1.71	1.19
67:Ce:6:PRO:HG3	67:Ce:93:LYS:CD	1.72	1.19
69:Cg:37:LYS:CG	69:Cg:60:ARG:NH2	2.04	1.19
81:CE:47:ASN:ND2	81:CE:48:PRO:HD3	1.55	1.19
6:AX:27:TYR:CZ	6:AX:31:HIS:NE2	2.09	1.19
10:AN:46:THR:OG1	10:AN:49:GLN:HG2	1.35	1.19
11:AL:118:ARG:HD2	11:AL:118:ARG:C	1.57	1.19
13:AP:126:VAL:HG12	13:AP:127:LYS:N	1.34	1.19
16:AA:13:GLU:O	16:AA:17:LYS:HE3	1.41	1.19
28:AC:227:ARG:HD2	28:AC:227:ARG:C	1.66	1.19
31:AH:65:PRO:HD2	31:AH:68:GLN:OE1	1.41	1.19
31:AH:83:LEU:CD2	31:AH:92:VAL:HG11	1.71	1.19
33:AI:136:ILE:O	33:AI:139:LYS:HG3	1.04	1.19
39:Cq:245:TYR:CZ	83:Ct:14:LEU:CD2	2.25	1.19
40:CK:78:SER:CB	40:CK:117:ARG:HH11	1.55	1.19
40:CK:160:VAL:O	40:CK:163:PRO:HD2	1.15	1.19
42:CL:155:MET:SD	42:CL:155:MET:N	2.16	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:104:SER:CA	47:CI:112:GLN:HG3	1.72	1.19
51:CA:118:GLU:OE1	51:CA:119:LYS:HE3	1.05	1.19
52:CS:173:ASN:HD22	52:CS:174:THR:N	1.38	1.19
63:CB:140:GLU:OE1	63:CB:144:LYS:HD2	1.07	1.19
63:CB:223:THR:CG2	63:CB:275:HIS:H	1.55	1.19
64:CF:60:GLU:O	64:CF:64:MET:HG3	1.37	1.19
74:CC:146:GLU:O	74:CC:175:LYS:CG	1.88	1.19
80:CH:110:SER:OG	80:CH:128:MET:N	1.73	1.19
81:CE:83:LYS:CD	81:CE:86:GLU:H	1.56	1.19
1:Az:275:LYS:HE3	1:Az:275:LYS:O	1.40	1.19
8:AS:124:ARG:NH1	13:AP:123:TYR:OH	1.75	1.19
10:AN:62:GLN:HB2	10:AN:65:PHE:CD2	1.78	1.19
16:AA:118:GLU:HB3	28:AC:65:LYS:NZ	1.58	1.19
18:AY:36:PRO:CG	18:AY:39:GLU:CD	2.14	1.19
26:AJ:134:HIS:CE1	26:AJ:163:SER:HB2	1.77	1.19
29:AG:32:MET:SD	29:AG:100:CYS:CA	2.31	1.19
34:AQ:85:ARG:HH12	34:AQ:117:ARG:CG	1.52	1.19
34:AQ:92:LEU:CD1	34:AQ:96:TYR:CE2	2.25	1.19
39:Cq:39:GLN:NE2	39:Cq:186:GLY:HA2	1.57	1.19
39:Cq:233:THR:CA	84:Cu:1:MET:HG3	1.71	1.19
40:CK:62:LEU:HD12	40:CK:62:LEU:O	1.40	1.19
40:CK:94:LYS:HD3	40:CK:96:LYS:HE3	1.23	1.19
42:CL:140:SER:O	42:CL:146:LEU:HD12	1.41	1.19
43:CV:82:ILE:HG23	43:CV:121:VAL:CG1	1.71	1.19
44:CM:51:PRO:HD2	44:CM:54:CYS:SG	1.82	1.19
46:CN:11:TRP:CE2	46:CN:44:ARG:NH2	2.10	1.19
46:CN:116:LEU:CD2	46:CN:135:ILE:HD11	1.71	1.19
53:CT:7:LYS:HD3	53:CT:7:LYS:O	1.37	1.19
54:CP:60:PHE:CE2	54:CP:82:ARG:HB2	1.77	1.19
57:CY:34:LEU:CD2	57:CY:38:LEU:C	2.15	1.19
60:Cr:78:VAL:HG23	60:Cr:81:THR:O	1.42	1.19
63:CB:290:GLY:O	63:CB:299:ILE:HG12	1.40	1.19
77:Cp:29:ILE:CG2	77:Cp:69:TRP:CD1	2.25	1.19
82:CG:183:ILE:CG2	82:CG:184:ILE:CA	2.20	1.19
1:Az:13:MET:SD	1:Az:465:PRO:HD2	1.82	1.19
1:Az:694:GLU:CD	1:Az:844:LEU:HD11	1.68	1.19
2:Ag:57:ARG:NE	2:Ag:94:THR:O	1.76	1.19
3:AU:50:VAL:O	3:AU:51:LYS:HD2	1.39	1.19
16:AA:104:THR:O	16:AA:107:THR:HG23	1.38	1.19
18:AY:12:PHE:CZ	18:AY:21:LYS:HB3	1.76	1.19
21:Ab:2:PRO:CA	21:Ab:3:LEU:HD23	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:17:ARG:CB	26:AJ:18:ARG:HG2	1.70	1.19
29:AG:63:MET:HE1	29:AG:106:LEU:CD1	1.73	1.19
41:CO:118:MET:HE3	52:CS:168:THR:O	1.04	1.19
61:Ch:44:LEU:O	61:Ch:47:ILE:HG22	1.05	1.19
79:CJ:90:ARG:HH22	79:CJ:108:GLY:N	1.28	1.19
82:CG:27:VAL:O	82:CG:31:LEU:CD2	1.89	1.19
1:Az:325:SER:O	1:Az:327:ASP:N	1.75	1.19
5:AO:61:LYS:HE3	5:AO:80:ASP:OD2	1.03	1.19
11:AL:22:ARG:NH1	33:AI:157:LYS:HB3	0.87	1.19
16:AA:21:ALA:CB	16:AA:173:LEU:HD11	1.49	1.19
16:AA:125:THR:O	16:AA:147:LEU:HB3	1.41	1.19
16:AA:154:LEU:CD1	17:AV:63:GLY:O	1.91	1.19
19:AZ:99:LEU:CD2	19:AZ:109:TYR:CE1	2.26	1.19
21:Ab:8:LEU:HD23	32:AW:62:VAL:CG2	1.73	1.19
26:AJ:17:ARG:HG2	26:AJ:18:ARG:CG	1.73	1.19
34:AQ:9:SER:CB	34:AQ:26:LYS:HE3	1.72	1.19
39:Cq:199:TYR:OH	83:Cs:49:LYS:NZ	1.76	1.19
40:CK:102:GLY:N	40:CK:139:VAL:CG1	1.99	1.19
54:CP:59:PRO:CG	54:CP:76:TRP:CD1	2.22	1.19
57:CY:61:HIS:CE1	57:CY:62:TYR:CE2	2.30	1.19
63:CB:140:GLU:CG	63:CB:144:LYS:NZ	2.03	1.19
63:CB:395:ASP:HA	63:CB:396:ARG:HB2	1.23	1.19
67:Ce:5:ARG:CG	67:Ce:93:LYS:HA	1.71	1.19
10:AN:25:TRP:CB	21:Ab:83:GLN:HG2	1.72	1.18
10:AN:80:LEU:O	10:AN:82:PRO:HD3	1.43	1.18
10:AN:131:THR:O	11:AL:153:LYS:HG3	1.40	1.18
13:AP:46:ASN:O	13:AP:49:LEU:CB	1.91	1.18
15:AB:20:LYS:O	15:AB:21:VAL:HG12	1.44	1.18
16:AA:133:PRO:HD2	16:AA:134:LEU:H	1.02	1.18
17:AV:11:LEU:HD12	17:AV:12:TYR:CD2	1.65	1.18
18:AY:63:HIS:CG	18:AY:64:PHE:CE1	2.31	1.18
30:AF:44:LYS:HB3	30:AF:45:TYR:CE1	1.76	1.18
39:Cq:26:LYS:CE	39:Cq:94:ASP:O	1.91	1.18
39:Cq:108:PRO:O	39:Cq:184:SER:OG	1.58	1.18
46:CN:43:THR:HG23	46:CN:131:GLU:OE2	1.39	1.18
48:CD:261:VAL:CB	48:CD:262:LYS:HB2	1.73	1.18
49:CQ:34:PHE:CD2	74:CC:293:LEU:CD2	2.26	1.18
49:CQ:110:ARG:CZ	49:CQ:120:ILE:HD12	1.72	1.18
54:CP:4:TYR:OH	54:CP:17:SER:C	1.84	1.18
64:CF:30:ILE:CG2	64:CF:34:ARG:CZ	2.20	1.18
67:Ce:6:PRO:HG3	67:Ce:93:LYS:HD3	1.22	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Cg:59:VAL:HG13	69:Cg:60:ARG:N	1.59	1.18
74:CC:158:VAL:HA	74:CC:161:TYR:CE2	1.78	1.18
82:CG:184:ILE:CG2	82:CG:185:LYS:H	1.55	1.18
1:Az:496:VAL:CG2	1:Az:497:MET:SD	2.30	1.18
1:Az:628:LEU:HD22	1:Az:631:ARG:NH2	1.51	1.18
9:Ad:5:GLN:HB3	9:Ad:7:TYR:CE2	1.78	1.18
13:AP:10:ARG:HH21	13:AP:11:THR:HB	1.05	1.18
14:AT:23:LYS:CD	14:AT:54:TYR:CD2	2.26	1.18
14:AT:40:ALA:HB3	14:AT:43:LYS:CG	1.73	1.18
18:AY:7:ILE:HD12	18:AY:43:LYS:HG2	1.19	1.18
18:AY:32:LYS:CG	18:AY:33:ALA:H	1.55	1.18
20:Aa:58:VAL:HG12	20:Aa:59:PHE:H	1.08	1.18
23:AD:177:LEU:CD2	23:AD:182:LEU:HD23	1.72	1.18
29:AG:212:LEU:O	29:AG:216:ARG:HG2	1.42	1.18
30:AF:63:LYS:CD	30:AF:71:ARG:CZ	2.19	1.18
40:CK:22:VAL:HG22	40:CK:48:LYS:CB	1.70	1.18
41:CO:127:VAL:O	52:CS:158:VAL:HG21	1.38	1.18
48:CD:261:VAL:HB	48:CD:262:LYS:CA	1.70	1.18
48:CD:268:ARG:HH11	48:CD:268:ARG:CG	1.56	1.18
57:CY:50:ARG:HD2	57:CY:115:ARG:NH2	1.56	1.18
63:CB:140:GLU:OE1	63:CB:144:LYS:CD	1.92	1.18
69:Cg:37:LYS:HG2	69:Cg:60:ARG:NH2	1.58	1.18
74:CC:313:VAL:HA	74:CC:314:LEU:CD2	1.72	1.18
79:CJ:22:LEU:CD2	79:CJ:130:PHE:CZ	2.25	1.18
80:CH:105:ILE:HG21	80:CH:112:VAL:CA	1.65	1.18
82:CG:191:GLY:N	82:CG:199:CYS:SG	2.12	1.18
11:AL:147:LYS:HD2	11:AL:148:ALA:CA	1.71	1.18
15:AB:71:LEU:CD1	15:AB:84:PHE:HE2	1.55	1.18
23:AD:47:GLU:HG2	23:AD:85:GLU:OE2	1.40	1.18
25:Af:105:TYR:O	25:Af:106:TYR:CD2	1.96	1.18
26:AJ:70:ARG:HH21	26:AJ:94:LEU:HD21	1.02	1.18
28:AC:116:THR:HG21	28:AC:118:ALA:O	1.43	1.18
31:AH:85:LYS:HD2	31:AH:85:LYS:O	1.43	1.18
39:Cq:268:PHE:O	39:Cq:272:PRO:HD3	1.02	1.18
44:CM:25:VAL:HG13	44:CM:39:ASP:O	1.44	1.18
52:CS:30:MET:HE1	52:CS:47:PHE:HB3	1.25	1.18
55:CU:48:LYS:HA	55:CU:52:LYS:O	1.44	1.18
58:CW:87:LEU:O	58:CW:90:ILE:CB	1.90	1.18
59:CZ:73:LYS:CE	59:CZ:75:TYR:HE1	1.51	1.18
59:CZ:95:VAL:HG22	59:CZ:113:GLU:OE1	1.41	1.18
63:CB:18:PRO:O	63:CB:20:LYS:N	1.77	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:52:GLY:N	63:CB:78:ILE:CD1	2.04	1.18
1:Az:103:ILE:HG12	1:Az:122:THR:CG2	1.74	1.18
1:Az:481:LYS:NZ	1:Az:532:PRO:CA	2.05	1.18
8:AS:94:LYS:HD3	8:AS:96:SER:OG	1.39	1.18
19:AZ:99:LEU:CD2	19:AZ:102:LYS:HD3	1.72	1.18
25:Af:120:GLU:OE1	25:Af:128:ALA:O	1.62	1.18
34:AQ:47:LEU:HD22	34:AQ:81:ILE:CD1	1.73	1.18
34:AQ:47:LEU:CD2	34:AQ:81:ILE:HD12	1.72	1.18
39:Cq:198:ILE:N	83:Cs:42:PHE:HE1	1.36	1.18
41:CO:131:PRO:CG	52:CS:156:HIS:CE1	2.21	1.18
58:CW:106:GLU:HG3	58:CW:110:ARG:NH1	0.87	1.18
63:CB:297:LYS:O	63:CB:300:LYS:CE	1.90	1.18
70:Ci:62:LYS:O	70:Ci:63:VAL:HG23	1.05	1.18
74:CC:233:SER:C	74:CC:263:LEU:HD11	1.68	1.18
82:CG:143:VAL:O	82:CG:146:LEU:CG	1.92	1.18
1:Az:73:THR:H	1:Az:104:ASP:CB	1.47	1.18
1:Az:73:THR:H	1:Az:104:ASP:CG	1.52	1.18
1:Az:75:ILE:CG2	1:Az:77:LEU:CD1	2.21	1.18
2:Ag:8:ARG:HE	2:Ag:8:ARG:CA	1.55	1.18
3:AU:40:ILE:CD1	3:AU:53:PRO:CG	2.13	1.18
10:AN:99:ARG:NH2	10:AN:115:LEU:HD21	1.56	1.18
12:AR:20:TYR:OH	12:AR:38:ILE:HG22	1.20	1.18
25:Af:140:TYR:OH	25:Af:146:LEU:HA	1.01	1.18
28:AC:94:ILE:CD1	28:AC:162:ILE:CD1	2.19	1.18
39:Cq:130:LEU:CD2	39:Cq:133:GLU:OE1	1.90	1.18
39:Cq:245:TYR:CZ	83:Ct:60:ILE:HD11	1.78	1.18
40:CK:9:GLU:HG3	40:CK:10:ILE:N	1.34	1.18
40:CK:94:LYS:HD3	40:CK:96:LYS:HE2	1.24	1.18
42:CL:150:LEU:HD13	61:Ch:121:VAL:O	1.37	1.18
46:CN:44:ARG:HD2	46:CN:119:TYR:CE1	1.77	1.18
48:CD:142:PHE:HB3	48:CD:171:LEU:CD2	1.73	1.18
55:CU:39:PHE:CE2	55:CU:70:ILE:CD1	2.25	1.18
57:CY:39:ARG:O	57:CY:43:ASN:HA	1.41	1.18
58:CW:88:ALA:CA	58:CW:91:MET:SD	2.30	1.18
63:CB:54:THR:O	63:CB:76:VAL:CG2	1.92	1.18
80:CH:45:LEU:HD23	80:CH:57:VAL:CG1	1.73	1.18
81:CE:106:VAL:CG2	81:CE:107:VAL:CA	2.04	1.18
81:CE:224:LYS:CB	81:CE:226:ARG:NH1	2.04	1.18
3:AU:109:GLY:O	3:AU:110:VAL:HG23	1.45	1.17
7:AM:78:LYS:O	7:AM:79:VAL:CG2	1.91	1.17
13:AP:52:LYS:HD3	13:AP:52:LYS:O	1.44	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:30:LEU:HD21	16:AA:35:GLU:CG	1.73	1.17
23:AD:197:LYS:H	23:AD:198:ILE:C	1.52	1.17
28:AC:69:LEU:CD1	28:AC:273:LEU:HD11	1.69	1.17
28:AC:275:LYS:HG3	28:AC:276:THR:H	1.08	1.17
30:AF:14:THR:CG2	34:AQ:56:LEU:CB	2.21	1.17
31:AH:163:GLN:OE1	31:AH:189:PHE:CE2	1.97	1.17
35:Ah:151:PHE:CB	35:Ah:153:VAL:HB	1.74	1.17
39:Cq:28:PHE:CD2	39:Cq:98:ILE:HG21	1.78	1.17
40:CK:10:ILE:CG2	40:CK:65:GLN:C	2.16	1.17
42:CL:125:ILE:HA	42:CL:138:ASP:OD2	1.42	1.17
43:CV:25:VAL:HG12	43:CV:38:TYR:HD1	1.03	1.17
52:CS:30:MET:CE	52:CS:47:PHE:CB	2.22	1.17
60:Cr:126:VAL:HG12	60:Cr:127:LYS:N	1.47	1.17
61:Ch:73:TYR:CB	61:Ch:79:LYS:CE	2.18	1.17
63:CB:21:ARG:HG3	63:CB:274:TYR:CD2	1.79	1.17
63:CB:165:HIS:CB	63:CB:180:LEU:CD1	2.22	1.17
65:Cc:74:TYR:CG	65:Cc:81:LEU:HD21	1.77	1.17
81:CE:47:ASN:CG	81:CE:48:PRO:HD3	1.66	1.17
1:Az:4:PHE:C	1:Az:46:ILE:HD11	1.69	1.17
1:Az:72:SER:OG	1:Az:104:ASP:O	1.61	1.17
1:Az:114:GLU:CD	1:Az:532:PRO:HD2	1.69	1.17
2:Ag:57:ARG:CD	2:Ag:94:THR:O	1.90	1.17
4:AK:66:HIS:CE1	23:AD:76:ARG:CD	2.27	1.17
7:AM:93:LYS:O	7:AM:94:ILE:HG22	1.42	1.17
13:AP:41:GLN:NE2	13:AP:84:ILE:HB	1.56	1.17
13:AP:84:ILE:O	13:AP:86:LEU:CD2	1.92	1.17
18:AY:120:THR:CB	18:AY:122:LYS:HE2	1.73	1.17
28:AC:173:LYS:HE2	28:AC:173:LYS:O	1.42	1.17
29:AG:27:PHE:CE2	29:AG:41:LEU:HD12	1.79	1.17
34:AQ:47:LEU:CD2	34:AQ:81:ILE:CD1	2.22	1.17
39:Cq:215:PHE:CE1	83:Cs:14:LEU:HD21	1.78	1.17
50:CR:4:LEU:HD11	50:CR:33:ALA:CB	1.74	1.17
50:CR:123:LEU:O	50:CR:127:VAL:HG23	1.44	1.17
50:CR:123:LEU:CD1	50:CR:138:LEU:HD21	1.72	1.17
51:CA:245:ARG:O	51:CA:245:ARG:HD3	1.42	1.17
55:CU:115:PHE:O	55:CU:116:GLN:HG3	1.42	1.17
59:CZ:7:PRO:HD2	59:CZ:8:GLY:H	1.10	1.17
60:Cr:78:VAL:CG2	60:Cr:81:THR:O	1.93	1.17
74:CC:14:LYS:HD2	74:CC:14:LYS:C	1.46	1.17
79:CJ:26:VAL:CG1	79:CJ:33:LEU:HD23	1.74	1.17
81:CE:148:THR:C	81:CE:163:VAL:HG12	1.69	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:83:PHE:CE1	82:CG:159:HIS:CA	2.26	1.17
83:Ct:19:ASP:HB3	84:Cv:32:ILE:HD11	1.24	1.17
1:Az:75:ILE:HG21	1:Az:77:LEU:HD11	1.19	1.17
1:Az:740:LEU:HB3	1:Az:831:PRO:CB	1.73	1.17
14:AT:75:MET:HE3	14:AT:79:TYR:CE2	1.79	1.17
26:AJ:110:LEU:CD1	26:AJ:130:ILE:CG1	2.22	1.17
26:AJ:143:ASN:O	26:AJ:145:PRO:HD3	1.41	1.17
30:AF:42:LYS:O	30:AF:44:LYS:N	1.77	1.17
34:AQ:42:ILE:HG21	34:AQ:51:LEU:CD2	1.75	1.17
39:Cq:251:LEU:CD1	84:Cv:8:LEU:HD21	1.74	1.17
41:CO:55:LEU:HD23	41:CO:58:LEU:HD12	1.23	1.17
51:CA:158:ILE:HG22	51:CA:162:ASN:ND2	1.40	1.17
52:CS:164:LYS:HE3	52:CS:165:PRO:HD3	1.20	1.17
59:CZ:46:ILE:HD13	59:CZ:49:TYR:CD1	1.79	1.17
59:CZ:92:ASP:HA	59:CZ:117:LYS:NZ	1.58	1.17
63:CB:128:LYS:O	63:CB:131:THR:HG23	1.44	1.17
63:CB:392:LEU:HD22	63:CB:392:LEU:N	1.44	1.17
69:Cg:60:ARG:HG3	69:Cg:60:ARG:HH21	1.07	1.17
70:Ci:25:ARG:CG	70:Ci:28:ARG:NH1	2.06	1.17
74:CC:91:ALA:O	74:CC:93:GLY:N	1.77	1.17
78:Co:25:GLN:NE2	78:Co:91:PHE:CE2	2.13	1.17
1:Az:448:GLN:HE21	1:Az:448:GLN:CA	1.56	1.17
1:Az:651:CYS:SG	1:Az:662:LEU:HD12	1.83	1.17
1:Az:662:LEU:HD21	1:Az:683:PHE:CD1	1.79	1.17
26:AJ:10:ARG:NH1	26:AJ:10:ARG:HB3	1.58	1.17
29:AG:145:PHE:HB3	29:AG:147:LEU:CD1	1.73	1.17
34:AQ:58:LEU:CD2	34:AQ:111:ILE:CD1	2.22	1.17
39:Cq:257:TYR:CD1	84:Cv:45:GLU:OE1	1.98	1.17
39:Cq:259:PHE:C	39:Cq:264:LYS:HB3	1.69	1.17
41:CO:64:THR:CG2	63:CB:261:ARG:HD3	1.73	1.17
42:CL:50:PRO:CG	42:CL:51:ALA:HB2	1.74	1.17
44:CM:12:VAL:HG13	44:CM:60:PHE:O	1.00	1.17
48:CD:184:ASP:CG	48:CD:186:GLU:O	1.88	1.17
51:CA:209:HIS:HE1	51:CA:211:PHE:CD2	1.56	1.17
51:CA:219:ILE:HG22	51:CA:220:GLY:H	1.02	1.17
56:CX:56:ARG:C	56:CX:57:GLN:HG2	1.46	1.17
65:Cc:13:SER:C	65:Cc:17:ARG:HE	1.52	1.17
65:Cc:99:PRO:CG	65:Cc:105:ILE:CD1	2.21	1.17
66:Cd:12:LYS:CD	66:Cd:13:GLY:HA3	1.75	1.17
68:Cf:42:TYR:OH	81:CE:284:HIS:N	1.76	1.17
72:Ck:14:THR:O	72:Ck:17:ARG:HG2	1.41	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:189:MET:HE1	74:CC:200:ARG:NE	1.58	1.17
81:CE:111:LYS:C	81:CE:113:PRO:CD	2.16	1.17
81:CE:208:ILE:H	81:CE:209:PRO:HD2	1.02	1.17
1:Az:150:ARG:NH1	1:Az:194:GLU:OE1	1.77	1.17
4:AK:18:GLU:O	4:AK:92:ALA:CB	1.92	1.17
5:AO:113:GLN:HG3	20:Aa:46:GLU:OE2	1.01	1.17
8:AS:8:LYS:O	19:AZ:49:LEU:CD2	1.92	1.17
16:AA:5:LEU:HD13	16:AA:6:ASP:N	1.59	1.17
17:AV:11:LEU:HD11	17:AV:12:TYR:CE2	1.80	1.17
21:Ab:16:LYS:HA	21:Ab:23:ARG:NH2	1.59	1.17
31:AH:31:GLU:OE2	31:AH:41:ARG:HD2	1.01	1.17
39:Cq:55:MET:SD	39:Cq:87:GLY:HA3	1.84	1.17
39:Cq:245:TYR:CZ	83:Ct:14:LEU:HD22	1.80	1.17
41:CO:54:TYR:CE2	41:CO:145:VAL:CG1	2.26	1.17
51:CA:77:ILE:HD11	51:CA:128:ARG:NH2	1.58	1.17
57:CY:66:GLN:HA	57:CY:66:GLN:NE2	1.48	1.17
60:Cr:127:LYS:O	60:Cr:131:THR:HG23	1.45	1.17
63:CB:150:PHE:HB3	63:CB:194:LEU:CD2	1.75	1.17
63:CB:285:TYR:CE1	63:CB:363:ILE:CD1	2.28	1.17
63:CB:312:LYS:HG2	63:CB:313:SER:N	1.15	1.17
78:Co:65:LYS:O	78:Co:66:ILE:CG2	1.92	1.17
1:Az:113:SER:CB	1:Az:499:PHE:HB2	1.74	1.16
4:AK:16:PHE:CD2	4:AK:79:LEU:HB2	1.80	1.16
13:AP:41:GLN:HE22	13:AP:45:LEU:CG	1.56	1.16
14:AT:84:ARG:HB2	14:AT:84:ARG:NH2	1.59	1.16
18:AY:20:ARG:CG	18:AY:74:MET:HE3	1.74	1.16
23:AD:56:GLN:O	23:AD:59:LEU:HG	1.41	1.16
28:AC:166:ARG:HH12	28:AC:255:LEU:CD1	1.56	1.16
30:AF:201:LYS:CE	30:AF:204:ARG:HH21	1.58	1.16
40:CK:8:ASN:O	40:CK:9:GLU:CG	1.91	1.16
40:CK:102:GLY:HA3	40:CK:139:VAL:O	1.37	1.16
44:CM:25:VAL:CG1	44:CM:38:VAL:HG12	1.74	1.16
44:CM:68:ALA:HB1	44:CM:69:HIS:O	1.00	1.16
45:Ca:125:LYS:HE3	45:Ca:147:VAL:HG21	1.17	1.16
45:Ca:129:PHE:CZ	45:Ca:146:LEU:CD2	2.26	1.16
54:CP:41:ILE:HG12	54:CP:150:LEU:HD22	1.27	1.16
60:Cr:86:ALA:CB	60:Cr:93:ILE:CD1	2.22	1.16
66:Cd:24:GLU:HG3	66:Cd:122:VAL:CG2	1.74	1.16
68:Cf:3:GLY:CA	81:CE:276:ALA:HB1	1.74	1.16
74:CC:76:ILE:HG23	74:CC:77:PRO:CD	1.68	1.16
74:CC:253:THR:O	74:CC:256:ALA:HB3	1.42	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:222:LEU:O	81:CE:222:LEU:HD23	1.40	1.16
85:A5:1363:C:O4'	85:A5:1363:C:C1'	1.67	1.16
1:Az:40:VAL:O	1:Az:43:ALA:CB	1.92	1.16
1:Az:746:LEU:HD11	1:Az:785:LYS:CD	1.75	1.16
2:Ag:20:GLN:HG3	2:Ag:68:ASP:CA	1.76	1.16
2:Ag:282:GLU:HG3	2:Ag:283:PRO:HD3	1.24	1.16
6:AX:51:VAL:HG13	6:AX:70:VAL:HG11	1.23	1.16
15:AB:26:SER:O	15:AB:27:LYS:HG3	1.44	1.16
16:AA:120:ARG:HD2	28:AC:266:TYR:HE2	1.03	1.16
18:AY:20:ARG:CG	18:AY:74:MET:CE	2.23	1.16
18:AY:84:LYS:HD2	18:AY:84:LYS:O	1.43	1.16
21:Ab:81:ARG:CB	21:Ab:82:LYS:HB2	1.73	1.16
28:AC:97:PHE:O	28:AC:98:LEU:HD12	1.43	1.16
28:AC:169:TYR:OH	28:AC:176:LYS:HA	1.01	1.16
39:Cq:6:ARG:HG3	39:Cq:10:LYS:HG3	1.21	1.16
39:Cq:116:ILE:CG2	39:Cq:166:LYS:HZ2	1.57	1.16
39:Cq:242:ILE:CD1	83:Ct:63:VAL:CG2	2.24	1.16
40:CK:160:VAL:CA	40:CK:163:PRO:HG2	1.70	1.16
44:CM:68:ALA:CB	44:CM:69:HIS:O	1.93	1.16
52:CS:154:LEU:HD13	52:CS:157:ARG:HH11	1.04	1.16
53:CT:24:VAL:CG1	53:CT:25:VAL:H	1.41	1.16
53:CT:30:TYR:OH	53:CT:94:GLU:HG3	1.41	1.16
55:CU:60:VAL:CA	55:CU:75:GLU:CG	2.20	1.16
63:CB:150:PHE:O	63:CB:152:SER:N	1.78	1.16
63:CB:165:HIS:HB3	63:CB:180:LEU:CD1	1.75	1.16
69:Cg:66:ARG:HH11	69:Cg:66:ARG:CB	1.56	1.16
70:Ci:58:MET:SD	70:Ci:90:LEU:CB	2.32	1.16
74:CC:7:LEU:N	74:CC:24:LEU:HD21	1.59	1.16
80:CH:47:LEU:CD1	80:CH:55:LEU:HD21	1.73	1.16
81:CE:46:ARG:CZ	81:CE:47:ASN:N	2.04	1.16
82:CG:234:ARG:HG2	82:CG:234:ARG:HH21	1.04	1.16
1:Az:692:LEU:CD1	1:Az:824:PRO:CB	2.22	1.16
1:Az:829:SER:O	1:Az:833:GLN:HG2	1.45	1.16
2:Ag:219:TRP:CZ3	2:Ag:226:HIS:HD2	1.63	1.16
4:AK:11:ILE:HG22	4:AK:49:MET:HE1	1.27	1.16
5:AO:105:THR:O	5:AO:106:LYS:HG2	1.45	1.16
15:AB:52:THR:HB	82:CG:264:LYS:HZ2	1.03	1.16
23:AD:158:ILE:HD13	23:AD:189:MET:CE	1.73	1.16
25:Af:144:CYS:HB3	25:Af:147:THR:CG2	1.74	1.16
26:AJ:72:PHE:CE1	27:AE:248:ILE:HB	1.80	1.16
26:AJ:110:LEU:CD1	26:AJ:130:ILE:HG12	1.74	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:195:LYS:HE2	36:B2:125:C:O2'	1.43	1.16
31:AH:10:LYS:HE3	31:AH:17:ASP:H	1.00	1.16
31:AH:53:VAL:HG22	31:AH:57:ARG:O	0.99	1.16
34:AQ:38:PRO:CD	34:AQ:41:MET:SD	2.32	1.16
34:AQ:50:LYS:NZ	34:AQ:117:ARG:HD2	1.60	1.16
34:AQ:128:GLU:CB	36:B2:1649:U:OP1	1.93	1.16
39:Cq:61:MET:HG2	39:Cq:82:ILE:HG22	1.23	1.16
39:Cq:222:VAL:HG22	84:Cu:8:LEU:HD12	1.18	1.16
40:CK:94:LYS:HA	40:CK:95:GLN:C	1.68	1.16
42:CL:8:MET:O	42:CL:10:LEU:HD21	0.99	1.16
57:CY:83:GLU:OE2	57:CY:83:GLU:HA	1.41	1.16
59:CZ:46:ILE:CD1	59:CZ:49:TYR:CD1	2.27	1.16
59:CZ:57:MET:CE	59:CZ:61:LYS:CB	2.19	1.16
60:Cr:78:VAL:HG21	60:Cr:82:ILE:CG2	1.65	1.16
61:Ch:36:VAL:C	61:Ch:38:GLY:N	1.93	1.16
61:Ch:70:ARG:NH2	87:A8:96:C:OP1	1.77	1.16
65:Cc:99:PRO:CG	65:Cc:105:ILE:HD11	1.74	1.16
74:CC:147:VAL:HG22	74:CC:175:LYS:CB	1.73	1.16
78:Co:65:LYS:CE	78:Co:87:ARG:HG3	1.75	1.16
82:CG:124:GLY:O	82:CG:125:LYS:HB2	1.36	1.16
83:Cs:41:PRO:O	83:Cs:44:PRO:HD2	1.36	1.16
1:Az:576:VAL:O	1:Az:577:VAL:HG23	1.43	1.16
2:Ag:20:GLN:CG	2:Ag:68:ASP:HA	1.74	1.16
5:AO:128:ARG:HA	20:Aa:62:TYR:CZ	1.80	1.16
11:AL:80:MET:HE1	11:AL:120:VAL:C	1.58	1.16
17:AV:1:MET:HE2	17:AV:10:ASP:CB	1.76	1.16
26:AJ:138:ARG:NH1	26:AJ:156:HIS:CE1	2.13	1.16
28:AC:210:PRO:CG	28:AC:236:PHE:HZ	1.57	1.16
29:AG:157:VAL:HG11	29:AG:159:ARG:HG2	1.16	1.16
39:Cq:110:ALA:HB2	39:Cq:181:SER:C	1.71	1.16
40:CK:113:ALA:O	40:CK:116:MET:HG2	1.43	1.16
43:CV:9:SER:OG	43:CV:128:LEU:CD1	1.92	1.16
44:CM:32:ASP:HB2	44:CM:35:ARG:CD	1.76	1.16
46:CN:180:PHE:O	46:CN:183:THR:O	1.64	1.16
49:CQ:61:LEU:HD12	49:CQ:82:VAL:CG2	1.76	1.16
50:CR:76:MET:HA	50:CR:76:MET:CE	1.74	1.16
51:CA:62:VAL:HG22	51:CA:73:THR:HG22	1.28	1.16
52:CS:16:CYS:HA	52:CS:59:GLY:HA3	1.16	1.16
52:CS:154:LEU:CD1	52:CS:157:ARG:HH11	1.59	1.16
63:CB:80:GLU:OE1	63:CB:171:LEU:CD1	1.93	1.16
1:Az:56:PHE:CZ	1:Az:455:GLY:C	2.24	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:240:GLY:CA	1:Az:241:GLU:HB2	1.75	1.16
1:Az:613:LEU:HD11	1:Az:639:TYR:HB3	1.21	1.16
2:Ag:191:HIS:CG	2:Ag:195:LEU:HD21	1.81	1.16
10:AN:13:GLN:OE1	21:Ab:21:LYS:HE2	1.46	1.16
15:AB:66:VAL:CG2	15:AB:87:ILE:CG2	2.16	1.16
18:AY:102:THR:CG2	18:AY:107:ARG:NE	2.04	1.16
23:AD:47:GLU:HG2	23:AD:85:GLU:CD	1.71	1.16
33:AI:153:LYS:O	33:AI:154:LYS:HB3	1.40	1.16
39:Cq:236:SER:C	39:Cq:238:PRO:CD	2.13	1.16
41:CO:168:TYR:CE2	41:CO:172:LYS:NZ	2.12	1.16
45:Ca:58:MET:O	49:CQ:172:ARG:NH2	1.78	1.16
51:CA:118:GLU:OE1	51:CA:119:LYS:CE	1.94	1.16
56:CX:81:LEU:HD21	56:CX:99:ILE:HD11	1.17	1.16
65:Cc:13:SER:HB2	65:Cc:17:ARG:NH2	1.60	1.16
68:Cf:18:LEU:HD12	68:Cf:18:LEU:O	1.41	1.16
70:Ci:43:MET:HE1	82:CG:173:LEU:HD21	1.24	1.16
77:Cp:51:ALA:O	77:Cp:54:ILE:CG2	1.93	1.16
78:Co:55:ILE:CD1	78:Co:56:PHE:H	1.55	1.16
78:Co:66:ILE:HG13	78:Co:85:ILE:CB	1.64	1.16
4:AK:60:GLU:OE1	4:AK:67:PHE:CE1	1.99	1.15
14:AT:46:ALA:HB1	14:AT:47:PRO:CD	1.76	1.15
14:AT:77:LYS:CB	14:AT:94:ARG:HD3	1.75	1.15
16:AA:103:PHE:CE2	16:AA:136:GLU:OE1	1.99	1.15
18:AY:63:HIS:CG	18:AY:64:PHE:HE1	1.62	1.15
22:Ac:67:ARG:HG2	22:Ac:68:LEU:N	1.43	1.15
23:AD:21:LEU:CD1	23:AD:48:ILE:HD12	1.74	1.15
26:AJ:48:PHE:CE1	26:AJ:52:LYS:CE	2.29	1.15
27:AE:152:PRO:HD2	29:AG:212:LEU:HD21	1.22	1.15
28:AC:69:LEU:HD11	28:AC:273:LEU:HD11	1.19	1.15
29:AG:151:ASP:OD1	58:CW:105:ARG:NH1	1.79	1.15
30:AF:42:LYS:C	30:AF:44:LYS:H	1.32	1.15
31:AH:40:LEU:HD23	31:AH:43:LEU:HD12	1.17	1.15
36:B2:1237:C:O4'	36:B2:1237:C:C1'	1.63	1.15
39:Cq:26:LYS:CD	39:Cq:94:ASP:O	1.94	1.15
41:CO:65:ASN:HB3	41:CO:68:ARG:CD	1.76	1.15
44:CM:32:ASP:HB2	44:CM:35:ARG:HD2	1.16	1.15
45:Ca:89:ASN:CB	45:Ca:91:ALA:H	1.59	1.15
46:CN:119:TYR:OH	46:CN:131:GLU:OE1	1.65	1.15
48:CD:41:LYS:HE3	53:CT:93:ILE:HD13	1.16	1.15
50:CR:99:MET:CE	50:CR:127:VAL:HG12	1.76	1.15
55:CU:48:LYS:HE2	55:CU:52:LYS:HG3	1.26	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:66:GLN:HE21	57:CY:66:GLN:CA	1.56	1.15
59:CZ:32:GLY:O	59:CZ:33:THR:HG23	1.44	1.15
60:Cr:16:PHE:CG	60:Cr:28:GLU:CD	2.24	1.15
63:CB:140:GLU:CD	63:CB:144:LYS:CD	2.19	1.15
63:CB:153:MET:HE3	63:CB:160:ILE:HD11	1.19	1.15
74:CC:76:ILE:HG22	74:CC:77:PRO:CD	1.67	1.15
78:Co:74:GLU:OE1	78:Co:75:PRO:HD3	1.43	1.15
79:CJ:163:MET:CE	79:CJ:174:ILE:HD13	1.73	1.15
80:CH:34:LEU:CD2	80:CH:150:ASP:OD1	1.94	1.15
82:CG:74:LEU:HD12	82:CG:74:LEU:N	1.49	1.15
84:Cu:3:TYR:O	84:Cu:7:TYR:CD2	1.99	1.15
1:Az:75:ILE:CG2	1:Az:77:LEU:HD12	1.76	1.15
1:Az:481:LYS:HE2	1:Az:532:PRO:CB	1.60	1.15
1:Az:512:LYS:HD2	1:Az:569:PRO:HB3	1.28	1.15
1:Az:613:LEU:H	1:Az:613:LEU:HD23	1.08	1.15
2:Ag:100:ARG:HG3	2:Ag:100:ARG:HH11	1.07	1.15
5:AO:19:PRO:HG2	5:AO:27:VAL:CG2	1.62	1.15
6:AX:10:ALA:HB2	11:AL:101:ARG:C	1.70	1.15
8:AS:8:LYS:CD	8:AS:9:PHE:HE1	1.60	1.15
8:AS:47:LYS:NZ	8:AS:78:LYS:HB2	1.59	1.15
10:AN:87:ASP:OD2	10:AN:129:TYR:OH	1.64	1.15
11:AL:149:ALA:HB2	11:AL:156:GLN:CG	1.60	1.15
13:AP:127:LYS:HZ2	13:AP:127:LYS:HB2	1.01	1.15
16:AA:103:PHE:CZ	16:AA:136:GLU:OE1	2.00	1.15
26:AJ:61:LEU:HD13	26:AJ:94:LEU:CD1	1.77	1.15
39:Cq:61:MET:SD	39:Cq:82:ILE:CB	2.34	1.15
39:Cq:211:LEU:CD1	83:Cs:50:ALA:HB2	1.75	1.15
40:CK:31:LYS:O	40:CK:34:PRO:HD3	1.34	1.15
40:CK:102:GLY:C	40:CK:139:VAL:O	1.88	1.15
41:CO:7:LEU:CD1	52:CS:167:PHE:HE2	1.59	1.15
44:CM:25:VAL:CG1	44:CM:38:VAL:CG1	2.25	1.15
44:CM:60:PHE:CE2	44:CM:85:LYS:CG	2.29	1.15
47:CI:174:THR:HB	47:CI:176:PHE:HD2	0.99	1.15
48:CD:199:ILE:HG22	48:CD:200:MET:HE2	1.22	1.15
57:CY:34:LEU:HD11	57:CY:38:LEU:CG	1.76	1.15
63:CB:21:ARG:HG3	63:CB:274:TYR:HD2	1.03	1.15
66:Cd:101:LYS:HD3	66:Cd:101:LYS:H	1.09	1.15
70:CI:81:ILE:HG23	70:CI:85:ARG:NH1	1.57	1.15
74:CC:91:ALA:C	74:CC:92:PHE:HD2	1.55	1.15
82:CG:143:VAL:O	82:CG:146:LEU:HG	1.47	1.15
83:Ct:41:PRO:HD2	83:Ct:42:PHE:H	1.09	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:746:LEU:CD2	1:Az:785:LYS:HD3	1.76	1.15
8:AS:47:LYS:HE3	8:AS:77:TYR:O	0.99	1.15
9:Ad:5:GLN:CB	9:Ad:7:TYR:CE2	2.29	1.15
12:AR:15:VAL:HG11	23:AD:210:ILE:CD1	1.72	1.15
12:AR:17:ILE:HG21	12:AR:69:ILE:CD1	1.74	1.15
31:AH:143:ARG:HD3	32:AW:53:ILE:CG1	1.74	1.15
31:AH:144:ILE:CB	32:AW:52:ILE:CG2	2.22	1.15
33:AI:116:HIS:O	33:AI:152:ARG:CZ	1.93	1.15
33:AI:136:ILE:O	33:AI:139:LYS:CG	1.92	1.15
33:AI:141:ARG:HB2	33:AI:144:LYS:CB	1.75	1.15
39:Cq:191:GLN:HE22	39:Cq:198:ILE:HG23	1.07	1.15
40:CK:160:VAL:C	40:CK:163:PRO:CG	2.19	1.15
50:CR:134:ASN:O	50:CR:137:ILE:HG22	1.45	1.15
51:CA:94:ALA:HB3	51:CA:102:LEU:HD21	1.19	1.15
52:CS:83:ARG:CG	52:CS:92:ASN:ND2	2.08	1.15
74:CC:189:MET:HE1	74:CC:200:ARG:HE	1.02	1.15
78:Co:66:ILE:CG1	78:Co:85:ILE:CD1	2.09	1.15
81:CE:223:ARG:H	81:CE:223:ARG:CD	1.52	1.15
82:CG:150:LYS:HB2	82:CG:177:MET:CE	1.77	1.15
1:Az:427:VAL:HG21	1:Az:447:ILE:HD11	1.20	1.15
8:AS:39:ARG:NH2	14:AT:38:LYS:NZ	1.80	1.15
8:AS:120:HIS:HE1	13:AP:123:TYR:CD2	1.65	1.15
11:AL:10:TYR:CD2	11:AL:12:LYS:NZ	2.14	1.15
12:AR:1:MET:CB	12:AR:1:MET:HA	1.68	1.15
15:AB:52:THR:CG2	82:CG:264:LYS:NZ	2.08	1.15
18:AY:92:ALA:N	18:AY:97:TYR:HB3	1.59	1.15
19:AZ:48:VAL:CG2	19:AZ:80:ARG:HD3	1.77	1.15
21:Ab:73:LEU:CD1	21:Ab:79:PHE:CE2	2.29	1.15
35:Ah:154:ASP:O	35:Ah:155:ARG:HD2	1.41	1.15
40:CK:94:LYS:HG2	40:CK:96:LYS:CD	1.74	1.15
41:CO:203:VAL:O	44:CM:100:ARG:HG2	1.43	1.15
45:Ca:73:VAL:HG21	45:Ca:108:TYR:CE1	1.81	1.15
46:CN:4:TYR:CD1	46:CN:46:ASP:OD1	1.99	1.15
47:CI:9:TYR:CE1	47:CI:97:ILE:HG23	1.80	1.15
48:CD:210:TYR:CE1	48:CD:214:GLU:OE1	1.98	1.15
49:CQ:154:LYS:HB2	49:CQ:155:ALA:CA	1.72	1.15
50:CR:133:LYS:CD	50:CR:137:ILE:HB	1.77	1.15
52:CS:16:CYS:CA	52:CS:59:GLY:HA3	1.77	1.15
52:CS:72:PRO:O	52:CS:100:LEU:HD11	0.98	1.15
53:CT:30:TYR:OH	53:CT:94:GLU:CG	1.94	1.15
56:CX:81:LEU:CD2	56:CX:99:ILE:HG13	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:117:TYR:O	56:CX:119:ILE:HG22	1.45	1.15
74:CC:219:LYS:NZ	74:CC:222:ARG:HH12	1.42	1.15
74:CC:296:PRO:HD2	74:CC:297:GLU:OE1	1.45	1.15
81:CE:228:GLN:O	81:CE:230:GLY:N	1.79	1.15
82:CG:39:PHE:CE2	82:CG:47:PRO:HG3	1.81	1.15
82:CG:183:ILE:CG2	82:CG:184:ILE:HA	1.77	1.15
82:CG:208:ASN:ND2	82:CG:210:GLU:CG	2.10	1.15
1:Az:58:ASP:O	1:Az:63:GLU:HB3	1.47	1.15
3:Au:109:GLY:O	3:Au:110:VAL:CG2	1.95	1.15
4:AK:62:PHE:HD1	4:AK:67:PHE:CZ	1.65	1.15
6:AX:10:ALA:CB	11:AL:101:ARG:O	1.92	1.15
8:AS:138:THR:CA	8:AS:141:ARG:HH21	1.53	1.15
8:AS:138:THR:HA	8:AS:141:ARG:CZ	1.75	1.15
11:AL:157:LYS:C	11:AL:158:PHE:CD2	2.25	1.15
13:AP:53:GLN:NE2	13:AP:80:LEU:HD13	1.61	1.15
24:Ae:50:GLY:C	24:Ae:51:LYS:HG3	1.70	1.15
26:AJ:89:GLU:CA	26:AJ:92:MET:HB2	1.77	1.15
30:AF:14:THR:HG22	34:AQ:56:LEU:HD22	1.15	1.15
30:AF:47:LYS:HG3	34:AQ:117:ARG:HH22	1.12	1.15
34:AQ:85:ARG:NH1	34:AQ:117:ARG:HG2	1.62	1.15
39:Cq:80:PRO:CG	39:Cq:81:HIS:CE1	2.28	1.15
42:CL:58:ILE:CD1	42:CL:157:VAL:HG12	1.77	1.15
44:CM:104:MET:CE	44:CM:112:VAL:HG21	1.77	1.15
46:CN:56:LYS:HE2	46:CN:59:TYR:CE2	1.77	1.15
47:CI:5:PRO:O	47:CI:7:ARG:N	1.80	1.15
47:CI:71:CYS:SG	47:CI:158:LYS:HE3	1.86	1.15
60:Cr:125:MET:O	60:Cr:126:VAL:HG23	1.43	1.15
61:Ch:56:ARG:HG2	61:Ch:56:ARG:HH11	1.03	1.15
63:CB:57:VAL:HG12	63:CB:366:LYS:HE2	1.17	1.15
65:Cc:37:MET:SD	65:Cc:97:ILE:HG13	1.83	1.15
81:CE:98:GLY:HA2	81:CE:99:ASP:CG	1.70	1.15
83:Ct:17:HIS:NE2	83:Ct:23:VAL:HG21	1.61	1.15
83:Ct:17:HIS:CE1	83:Ct:23:VAL:HG21	1.82	1.15
2:Ag:48:ASP:OD2	2:Ag:49:GLU:HB2	1.46	1.14
3:Au:40:ILE:HD13	3:Au:53:PRO:HG3	1.27	1.14
4:AK:23:ALA:O	4:AK:66:HIS:O	1.64	1.14
4:AK:30:PRO:O	4:AK:31:LYS:CG	1.94	1.14
6:AX:71:ARG:HG2	6:AX:82:THR:HG22	1.29	1.14
6:AX:99:GLU:O	6:AX:100:VAL:HG13	1.45	1.14
17:AV:29:HIS:ND1	28:AC:85:SER:O	1.78	1.14
18:AY:118:ARG:CZ	29:AG:85:ARG:CD	2.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:85:ARG:HB3	19:AZ:85:ARG:NH1	1.60	1.14
23:AD:126:ILE:HD11	23:AD:134:CYS:SG	1.86	1.14
27:AE:98:ASN:ND2	27:AE:119:ALA:CB	2.10	1.14
29:AG:16:ILE:CD1	29:AG:45:TRP:HZ2	1.59	1.14
29:AG:98:ARG:HD3	29:AG:99:GLY:N	1.61	1.14
30:AF:36:GLN:HG3	30:AF:37:ASP:CG	1.70	1.14
39:Cq:111:ALA:CB	39:Cq:183:PHE:CG	2.30	1.14
40:CK:39:PRO:O	40:CK:40:LYS:HG3	1.46	1.14
40:CK:56:LEU:HD12	40:CK:91:ASP:OD2	0.99	1.14
41:CO:187:LYS:HA	41:CO:187:LYS:HE3	1.18	1.14
42:CL:50:PRO:CB	42:CL:51:ALA:HB2	1.75	1.14
42:CL:191:LEU:CD2	42:CL:194:ILE:CD1	2.25	1.14
48:CD:51:MET:HE1	48:CD:173:ILE:HD11	1.22	1.14
51:CA:77:ILE:HD11	51:CA:128:ARG:CZ	1.76	1.14
53:CT:79:GLN:O	53:CT:79:GLN:HG3	1.48	1.14
55:CU:37:ALA:HA	55:CU:65:ARG:NH1	1.60	1.14
58:CW:23:ARG:HB2	58:CW:23:ARG:HH11	0.98	1.14
60:Cr:51:VAL:HG11	60:Cr:117:ILE:CD1	1.63	1.14
74:CC:219:LYS:HZ2	74:CC:222:ARG:NH1	1.43	1.14
74:CC:292:ILE:O	74:CC:298:ILE:HD12	1.46	1.14
82:CG:75:LYS:HD2	82:CG:240:ASN:HB3	1.22	1.14
82:CG:113:ARG:HD2	82:CG:113:ARG:C	1.69	1.14
83:Cs:54:VAL:CG1	83:Cs:59:LEU:HD11	1.77	1.14
1:Az:739:ARG:HA	1:Az:824:PRO:HD3	1.26	1.14
4:AK:62:PHE:CD1	4:AK:67:PHE:CE2	2.36	1.14
4:AK:66:HIS:CE1	23:AD:76:ARG:CZ	2.30	1.14
11:AL:12:LYS:HZ1	33:AI:194:GLU:CG	1.60	1.14
11:AL:80:MET:HE3	11:AL:120:VAL:C	1.59	1.14
12:AR:122:PRO:HB3	12:AR:123:THR:CG2	1.75	1.14
16:AA:5:LEU:HB3	17:AV:41:LYS:HE2	1.19	1.14
33:AI:141:ARG:HD2	33:AI:144:LYS:HB3	1.19	1.14
34:AQ:57:LEU:HD11	34:AQ:115:TYR:CE2	1.83	1.14
39:Cq:143:ILE:HG12	39:Cq:160:LEU:HD21	1.21	1.14
41:CO:16:LEU:CD1	41:CO:43:ILE:CD1	2.20	1.14
45:Ca:58:MET:C	49:CQ:172:ARG:HH21	1.53	1.14
48:CD:163:LEU:HD11	48:CD:173:ILE:CG2	1.77	1.14
48:CD:163:LEU:HD11	48:CD:173:ILE:HG21	1.30	1.14
48:CD:252:VAL:O	48:CD:253:TYR:O	1.63	1.14
54:CP:48:LEU:HD13	54:CP:91:LEU:CD1	1.76	1.14
57:CY:110:LYS:CB	57:CY:115:ARG:NH1	1.78	1.14
67:Ce:45:VAL:CG1	67:Ce:55:MET:HE3	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Cg:57:ARG:O	69:Cg:58:ALA:HB3	1.47	1.14
74:CC:122:TYR:CD1	74:CC:280:PRO:CG	2.30	1.14
80:CH:106:GLN:HG2	80:CH:107:GLU:HA	1.28	1.14
83:Cs:21:VAL:CG1	83:Cs:27:LYS:CD	2.23	1.14
2:Ag:119:GLN:NE2	2:Ag:121:VAL:CG2	2.10	1.14
10:AN:125:LEU:HD13	10:AN:129:TYR:CE2	1.82	1.14
15:AB:137:LEU:HD22	15:AB:215:VAL:CG2	1.77	1.14
16:AA:57:LYS:NZ	17:AV:70:LEU:CD1	2.11	1.14
16:AA:57:LYS:HZ1	17:AV:70:LEU:CD1	1.60	1.14
23:AD:218:LEU:CB	23:AD:220:THR:CG2	2.26	1.14
25:Af:108:VAL:HG22	25:Af:114:ILE:CG2	1.77	1.14
26:Aj:125:HIS:CD2	26:Aj:129:LEU:HD11	1.80	1.14
26:Aj:177:ASN:O	26:Aj:180:LYS:HG2	1.22	1.14
28:AC:259:THR:HG22	28:AC:261:PHE:CD2	1.80	1.14
28:AC:275:LYS:HD2	28:AC:276:THR:HG22	1.18	1.14
29:AG:181:THR:OG1	29:AG:182:PRO:HD2	1.47	1.14
39:Cq:26:LYS:CB	39:Cq:194:ASP:OD1	1.95	1.14
40:CK:10:ILE:HG21	40:CK:66:ASN:CA	1.57	1.14
45:Ca:108:TYR:C	45:Ca:109:TYR:CD1	2.23	1.14
48:CD:129:GLU:HG2	48:CD:177:THR:HG21	1.29	1.14
50:CR:31:GLU:OE2	55:CU:125:GLU:CB	1.94	1.14
53:CT:33:ILE:HD13	53:CT:33:ILE:H	1.02	1.14
53:CT:127:GLN:C	53:CT:127:GLN:HE21	1.56	1.14
58:CW:33:ASN:O	58:CW:37:GLU:HG2	1.46	1.14
59:CZ:5:MET:CA	59:CZ:6:LYS:HD3	1.78	1.14
60:Cr:20:ARG:HG3	67:Ce:77:PHE:CD1	1.80	1.14
71:Cj:88:ARG:CG	71:Cj:88:ARG:HH11	1.54	1.14
72:Ck:26:LYS:NZ	72:Ck:28:ASN:OD1	1.79	1.14
74:CC:218:ILE:HG12	74:CC:229:LEU:CD1	1.78	1.14
80:CH:34:LEU:HD22	80:CH:150:ASP:OD1	1.47	1.14
80:CH:110:SER:CB	80:CH:128:MET:HG2	1.76	1.14
81:CE:286:LEU:HB3	81:CE:287:VAL:HA	1.25	1.14
82:CG:160:ASP:OD1	82:CG:187:LYS:CG	1.95	1.14
1:Az:79:TYR:CD2	1:Az:351:LEU:CD1	2.29	1.14
1:Az:191:THR:HG21	1:Az:192:TYR:CZ	1.81	1.14
2:Ag:294:ASP:O	2:Ag:296:GLN:N	1.80	1.14
9:Ad:23:VAL:HG23	9:Ad:38:MET:CE	1.54	1.14
18:AY:92:ALA:HA	18:AY:97:TYR:C	1.71	1.14
22:Ac:55:VAL:HB	30:AF:34:SER:CB	1.76	1.14
34:AQ:109:LYS:CG	34:AQ:113:ILE:HD12	1.76	1.14
39:Cq:26:LYS:NZ	39:Cq:91:THR:OG1	1.81	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:36:VAL:HG13	41:CO:107:GLY:O	1.42	1.14
42:CL:27:ASN:C	42:CL:29:PRO:HD3	1.72	1.14
46:CN:21:PHE:CE2	82:CG:80:ILE:HD13	1.78	1.14
48:CD:163:LEU:CD1	48:CD:173:ILE:HG21	1.78	1.14
49:CQ:53:MET:HE1	49:CQ:143:ARG:NH2	1.60	1.14
52:CS:98:ARG:HD2	52:CS:145:PHE:CB	1.77	1.14
54:CP:107:LEU:N	54:CP:107:LEU:HD23	1.53	1.14
59:CZ:87:VAL:HG22	59:CZ:127:ASN:CG	1.72	1.14
63:CB:223:THR:HG22	63:CB:275:HIS:N	1.61	1.14
67:Ce:35:TRP:CZ2	67:Ce:56:PRO:HD2	1.83	1.14
74:CC:13:GLU:H	74:CC:13:GLU:CD	1.44	1.14
80:CH:19:THR:OG1	80:CH:26:ILE:HD11	1.45	1.14
80:CH:47:LEU:CD1	80:CH:55:LEU:CD2	2.24	1.14
81:CE:286:LEU:CB	81:CE:287:VAL:CA	2.22	1.14
85:A5:1276:C:C1'	85:A5:1276:C:O4'	1.66	1.14
1:Az:75:ILE:HG21	1:Az:77:LEU:CD1	1.78	1.14
1:Az:114:GLU:OE1	1:Az:532:PRO:HD2	1.45	1.14
2:Ag:152:SER:OG	2:Ag:168:CYS:SG	2.05	1.14
4:AK:5:LYS:HG3	4:AK:5:LYS:O	1.44	1.14
5:AO:99:ALA:H	5:AO:133:THR:CG2	1.60	1.14
5:AO:113:GLN:HG3	20:Aa:46:GLU:CD	1.71	1.14
6:AX:60:LYS:HG3	6:AX:116:PRO:HG2	1.26	1.14
12:AR:15:VAL:HG12	23:AD:210:ILE:CD1	1.75	1.14
12:AR:19:LYS:CD	23:AD:212:GLU:CG	2.25	1.14
12:AR:88:VAL:HG21	16:AA:198:MET:HB3	1.27	1.14
16:AA:21:ALA:HB3	16:AA:173:LEU:HD12	1.20	1.14
18:AY:7:ILE:HD12	18:AY:43:LYS:CG	1.76	1.14
19:AZ:48:VAL:HG22	19:AZ:80:ARG:HD3	1.27	1.14
27:AE:70:ILE:HG12	27:AE:92:ILE:HD12	1.24	1.14
39:Cq:248:VAL:CG2	84:Cv:8:LEU:HD12	1.77	1.14
40:CK:124:GLU:HB2	40:CK:128:THR:HG23	1.30	1.14
41:CO:65:ASN:HB3	41:CO:68:ARG:HD3	1.25	1.14
41:CO:190:ASP:CB	41:CO:193:THR:CB	2.22	1.14
42:CL:26:PHE:O	42:CL:29:PRO:CG	1.96	1.14
60:Cr:87:ARG:CG	60:Cr:88:ALA:H	1.61	1.14
66:Cd:80:VAL:HG12	66:Cd:81:PRO:HD2	1.29	1.14
66:Cd:112:THR:HB	66:Cd:113:THR:CG2	1.76	1.14
67:Ce:50:LYS:NZ	68:Cf:20:ASN:HD21	1.46	1.14
69:Cg:5:LEU:HD22	69:Cg:32:TYR:CD1	1.83	1.14
70:Ci:62:LYS:O	70:Ci:63:VAL:CG2	1.96	1.14
71:Cj:54:LYS:HE2	71:Cj:58:THR:HG22	1.26	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:85:ARG:NH2	77:Cp:86:LEU:CD2	2.10	1.14
80:CH:19:THR:OG1	80:CH:26:ILE:CG1	1.96	1.14
80:CH:47:LEU:HD13	80:CH:55:LEU:CD2	1.77	1.14
10:AN:28:LEU:O	10:AN:29:THR:HG23	1.45	1.13
18:AY:54:VAL:CG1	18:AY:76:TYR:O	1.95	1.13
18:AY:92:ALA:HA	18:AY:97:TYR:O	1.45	1.13
23:AD:132:LYS:CA	23:AD:191:PRO:CG	2.25	1.13
23:AD:132:LYS:H	23:AD:191:PRO:HD3	1.07	1.13
26:AJ:48:PHE:CZ	26:AJ:52:LYS:NZ	2.16	1.13
27:AE:208:VAL:CB	27:AE:225:ILE:HD11	1.68	1.13
27:AE:208:VAL:HG21	27:AE:225:ILE:HD12	1.24	1.13
28:AC:182:CYS:SG	32:AW:95:PRO:HB3	1.88	1.13
30:AF:47:LYS:HG3	34:AQ:117:ARG:NH2	1.63	1.13
30:AF:78:MET:O	30:AF:79:HIS:HB2	1.44	1.13
33:AI:25:ARG:CD	33:AI:27:TYR:CE2	2.23	1.13
35:Ah:172:ARG:HD3	35:Ah:173:GLY:HA3	1.14	1.13
39:Cq:25:PRO:HG3	39:Cq:92:LYS:HG3	1.22	1.13
39:Cq:191:GLN:NE2	39:Cq:198:ILE:HG23	1.61	1.13
39:Cq:241:ILE:O	39:Cq:245:TYR:HD2	1.29	1.13
45:Ca:84:GLU:O	45:Ca:87:ARG:HG3	1.45	1.13
45:Ca:108:TYR:C	45:Ca:109:TYR:HD1	1.56	1.13
45:Ca:119:LYS:C	45:Ca:140:VAL:CG1	2.11	1.13
53:CT:11:THR:HB	53:CT:15:PHE:CD2	1.83	1.13
58:CW:57:ARG:HH22	58:CW:66:GLU:CD	1.57	1.13
63:CB:395:ASP:HA	63:CB:396:ARG:HB3	1.15	1.13
64:CF:95:ILE:HD12	64:CF:96:ARG:HG2	1.19	1.13
66:Cd:23:ARG:HD2	66:Cd:88:LEU:HD11	1.21	1.13
74:CC:146:GLU:O	74:CC:146:GLU:HG2	1.48	1.13
74:CC:288:ASP:OD2	74:CC:291:ARG:HB2	1.35	1.13
76:Cn:3:ALA:HA	76:Cn:6:ARG:CD	1.78	1.13
79:CJ:163:MET:HE3	79:CJ:174:ILE:CG1	1.78	1.13
81:CE:83:LYS:CB	81:CE:84:LYS:C	2.22	1.13
81:CE:224:LYS:CA	81:CE:226:ARG:NH1	2.11	1.13
82:CG:241:VAL:O	82:CG:242:LEU:HB2	1.41	1.13
83:Ct:16:LEU:CD2	83:Ct:31:LEU:HD11	1.78	1.13
1:Az:13:MET:HE1	1:Az:464:VAL:CG1	1.77	1.13
2:Ag:172:LYS:HE2	2:Ag:191:HIS:O	0.96	1.13
2:Ag:232:GLY:HA2	2:Ag:257:LYS:HZ2	1.09	1.13
4:AK:14:LEU:HD22	4:AK:35:LEU:HD21	1.17	1.13
6:AX:126:ALA:HB3	6:AX:128:VAL:HB	1.15	1.13
8:AS:47:LYS:CE	8:AS:77:TYR:O	1.95	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:76:VAL:HG12	11:AL:125:ILE:CD1	1.78	1.13
12:AR:123:THR:CG2	16:AA:44:ASP:CA	2.08	1.13
14:AT:31:PRO:HB3	14:AT:33:TRP:CZ2	1.83	1.13
15:AB:137:LEU:CD2	15:AB:215:VAL:CG1	2.20	1.13
17:AV:17:CYS:HG	17:AV:56:CYS:CB	1.61	1.13
19:AZ:62:VAL:HG13	19:AZ:68:ILE:CD1	1.78	1.13
19:AZ:99:LEU:HD22	19:AZ:102:LYS:HD3	1.19	1.13
25:Af:135:HIS:HB3	25:Af:138:ARG:HG2	1.29	1.13
38:Cz:41:TYR:HB3	38:Cz:163:LEU:HD21	1.15	1.13
38:Cz:155:ILE:HD12	38:Cz:167:VAL:HG21	1.22	1.13
39:Cq:25:PRO:CG	39:Cq:92:LYS:CA	2.24	1.13
40:CK:62:LEU:CD1	40:CK:73:VAL:HB	1.79	1.13
40:CK:131:GLU:HG2	40:CK:155:ILE:HD11	1.22	1.13
40:CK:131:GLU:O	40:CK:135:THR:HG23	1.45	1.13
41:CO:10:ASP:HB2	41:CO:117:ARG:HG3	1.28	1.13
41:CO:65:ASN:CB	41:CO:68:ARG:HD2	1.78	1.13
41:CO:131:PRO:O	41:CO:132:THR:CG2	1.95	1.13
43:CV:9:SER:OG	43:CV:128:LEU:HG	1.48	1.13
48:CD:104:LEU:HD23	48:CD:247:ILE:HG23	1.23	1.13
50:CR:99:MET:SD	50:CR:127:VAL:HG12	1.89	1.13
52:CS:141:ALA:HB2	80:CH:1:MET:SD	1.89	1.13
60:Cr:78:VAL:HG22	60:Cr:82:ILE:HG23	1.24	1.13
63:CB:150:PHE:CB	63:CB:194:LEU:HD21	1.77	1.13
70:Ci:11:LEU:H	70:Ci:12:ASN:ND2	1.46	1.13
77:Cp:92:GLN:HG3	77:Cp:92:GLN:OXT	1.45	1.13
80:CH:93:ARG:NE	80:CH:143:GLU:HG2	1.63	1.13
83:Ct:11:TYR:CB	84:Cv:9:LEU:CD2	2.25	1.13
1:Az:45:ILE:HD12	1:Az:78:PHE:CD1	1.82	1.13
7:AM:12:MET:HE1	7:AM:120:ALA:CB	1.78	1.13
11:AL:12:LYS:HZ3	33:AI:194:GLU:CD	1.57	1.13
12:AR:17:ILE:CG2	12:AR:69:ILE:CD1	2.25	1.13
12:AR:22:THR:HG22	12:AR:73:LEU:HD11	1.29	1.13
34:AQ:128:GLU:HB2	36:B2:1649:U:OP1	0.96	1.13
39:Cq:43:ILE:HD13	39:Cq:187:LEU:HD21	1.19	1.13
39:Cq:254:GLU:CD	84:Cv:54:VAL:HG13	1.73	1.13
39:Cq:259:PHE:CB	39:Cq:264:LYS:HD2	1.76	1.13
39:Cq:269:LEU:O	39:Cq:272:PRO:HG2	1.49	1.13
40:CK:125:LEU:CD1	40:CK:163:PRO:CA	2.24	1.13
43:CV:93:GLY:HA3	63:CB:73:VAL:HG21	1.14	1.13
46:CN:68:ARG:HD2	46:CN:125:SER:O	1.46	1.13
46:CN:145:ASN:OD1	46:CN:146:PRO:HD2	1.49	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:103:LEU:CG	49:CQ:123:PHE:HE2	1.61	1.13
49:CQ:110:ARG:NH1	74:CC:281:MET:HE1	1.63	1.13
51:CA:143:THR:CA	51:CA:144:LYS:HG2	1.76	1.13
53:CT:82:GLY:CA	62:Cb:16:TRP:CZ3	2.32	1.13
56:CX:81:LEU:CD2	56:CX:99:ILE:HD11	1.75	1.13
60:Cr:16:PHE:CD1	60:Cr:28:GLU:CD	2.27	1.13
60:Cr:86:ALA:HB3	60:Cr:93:ILE:HD11	1.28	1.13
61:Ch:89:ARG:O	61:Ch:93:ARG:HG2	1.49	1.13
63:CB:189:THR:CG2	63:CB:192:GLU:OE1	1.96	1.13
74:CC:14:LYS:O	74:CC:16:GLU:CG	1.96	1.13
79:CJ:90:ARG:HH21	79:CJ:108:GLY:C	1.55	1.13
81:CE:283:PRO:HA	81:CE:286:LEU:HD13	1.17	1.13
82:CG:121:LYS:HG2	82:CG:126:GLY:C	1.71	1.13
1:Az:58:ASP:OD1	1:Az:69:THR:CG2	1.97	1.13
1:Az:502:SER:O	1:Az:504:VAL:HG22	1.48	1.13
3:AU:36:CYS:SG	3:AU:53:PRO:HB3	1.88	1.13
4:AK:17:LYS:NZ	35:Ah:287:GLU:HG2	1.64	1.13
7:AM:94:ILE:HG23	7:AM:95:ASP:N	1.45	1.13
8:AS:139:THR:O	8:AS:141:ARG:CG	1.95	1.13
17:AV:55:ILE:HD13	17:AV:65:SER:HA	1.25	1.13
23:AD:226:GLN:HA	23:AD:226:GLN:NE2	1.59	1.13
28:AC:102:LEU:HD21	28:AC:130:ILE:HG23	1.16	1.13
30:AF:93:VAL:O	30:AF:97:PHE:CD1	2.01	1.13
31:AH:83:LEU:CD1	31:AH:92:VAL:CB	2.27	1.13
32:AW:93:LEU:HD21	32:AW:128:PHE:CD2	1.83	1.13
44:CM:63:LYS:HE2	44:CM:64:PHE:CA	1.76	1.13
45:Ca:69:PHE:O	45:Ca:70:CYS:SG	2.07	1.13
45:Ca:119:LYS:O	45:Ca:120:GLN:CG	1.97	1.13
46:CN:116:LEU:HD11	46:CN:151:ILE:HD11	1.20	1.13
48:CD:47:PRO:HB2	48:CD:66:TYR:CE1	1.70	1.13
51:CA:116:LEU:HD11	51:CA:126:LEU:HD12	1.16	1.13
51:CA:118:GLU:HG2	51:CA:125:LYS:NZ	1.62	1.13
63:CB:40:PRO:C	63:CB:41:VAL:HG22	1.69	1.13
63:CB:78:ILE:HD12	63:CB:78:ILE:O	1.49	1.13
63:CB:87:VAL:CG2	63:CB:163:ILE:CG2	2.26	1.13
66:Cd:29:ILE:HG22	66:Cd:33:ILE:HD12	1.28	1.13
67:Ce:5:ARG:NE	67:Ce:5:ARG:HA	1.43	1.13
69:Cg:29:ARG:HD3	69:Cg:30:ILE:H	1.05	1.13
69:Cg:57:ARG:HE	69:Cg:59:VAL:HG21	1.01	1.13
69:Cg:57:ARG:HD3	69:Cg:59:VAL:HB	1.16	1.13
72:Ck:33:LYS:HG2	72:Ck:46:VAL:HG22	1.28	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:91:ALA:CB	74:CC:92:PHE:CE2	2.30	1.13
82:CG:32:PHE:O	82:CG:33:GLU:CG	1.97	1.13
82:CG:159:HIS:ND1	82:CG:185:LYS:CA	2.07	1.13
1:Az:93:LYS:HD2	1:Az:93:LYS:O	1.49	1.13
1:Az:753:GLU:HB3	1:Az:782:PHE:CZ	1.82	1.12
2:Ag:65:PHE:HZ	12:AR:29:HIS:CE1	1.64	1.12
2:Ag:298:LEU:HD12	2:Ag:298:LEU:O	1.46	1.13
5:AO:88:LEU:HD13	15:AB:25:PHE:CZ	1.82	1.12
7:AM:64:LEU:HD12	25:Af:104:LYS:HZ3	0.99	1.12
7:AM:94:ILE:CG2	7:AM:95:ASP:H	1.56	1.12
8:AS:39:ARG:NH2	14:AT:38:LYS:HE3	1.43	1.12
13:AP:44:ARG:NH2	13:AP:84:ILE:H	1.45	1.12
21:Ab:12:PRO:O	21:Ab:16:LYS:HG2	1.49	1.13
26:AJ:37:LEU:HD11	26:AJ:42:GLU:CB	1.77	1.13
23:AD:166:TYR:CD1	23:AD:200:PRO:HB2	1.84	1.12
24:Ae:12:VAL:O	24:Ae:16:THR:HG23	1.48	1.12
26:AJ:91:LYS:HA	26:AJ:96:TYR:CB	1.77	1.12
26:AJ:170:PRO:CG	26:AJ:175:ARG:CG	2.26	1.13
27:AE:208:VAL:HG11	27:AE:225:ILE:HD13	1.27	1.13
26:AJ:169:ARG:HB3	26:AJ:170:PRO:CD	1.77	1.12
29:AG:142:ARG:HD3	29:AG:147:LEU:HB2	1.15	1.12
30:AF:49:LEU:HD12	30:AF:50:PRO:HD2	1.29	1.12
32:AW:36:ARG:HD3	32:AW:110:ILE:HD12	1.28	1.13
16:AA:32:PHE:CE1	16:AA:33:GLN:HG2	1.83	1.12
18:AY:93:ARG:HH11	18:AY:93:ARG:HG2	1.02	1.12
30:AF:63:LYS:HD2	30:AF:71:ARG:NH1	1.59	1.12
34:AQ:8:GLN:HG3	34:AQ:99:TYR:HE1	0.98	1.12
39:Cq:92:LYS:O	39:Cq:92:LYS:HG2	1.42	1.12
40:CK:123:ARG:HD3	40:CK:129:ILE:HD11	1.31	1.12
42:CL:136:LYS:H	42:CL:137:GLY:HA2	0.98	1.12
46:CN:116:LEU:CD1	46:CN:151:ILE:CD1	2.27	1.13
48:CD:104:LEU:HD21	48:CD:247:ILE:HG12	1.19	1.13
49:CQ:103:LEU:CD2	49:CQ:123:PHE:HE2	1.58	1.13
52:CS:111:ARG:HG2	52:CS:111:ARG:HH21	1.05	1.13
63:CB:142:GLY:HA3	63:CB:147:GLU:OE1	1.33	1.13
64:CF:188:GLU:OE1	74:CC:329:ASN:ND2	1.81	1.12
65:Cc:99:PRO:HG2	65:Cc:105:ILE:HD11	1.13	1.12
71:Cj:83:THR:HB	71:Cj:84:PRO:HD2	1.26	1.12
71:Cj:85:LYS:N	71:Cj:86:PRO:HD3	1.35	1.12
74:CC:85:HIS:N	74:CC:87:SER:OG	1.79	1.13
74:CC:158:VAL:HA	74:CC:161:TYR:CD2	1.84	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:218:ILE:CG1	74:CC:229:LEU:HD12	1.78	1.12
74:CC:273:LEU:O	74:CC:273:LEU:HD12	1.47	1.13
66:Cd:93:ASN:HB2	66:Cd:101:LYS:O	1.44	1.12
74:CC:310:HIS:HB3	74:CC:311:ARG:CD	1.66	1.12
80:CH:7:ASN:HB2	80:CH:58:ASP:OD1	1.30	1.12
80:CH:49:GLY:CA	80:CH:50:LYS:NZ	2.12	1.13
80:CH:89:ARG:HH21	80:CH:91:LYS:HE2	1.11	1.13
82:CG:167:VAL:HG13	82:CG:170:LEU:HD12	1.14	1.13
57:CY:34:LEU:CD1	57:CY:38:LEU:HB2	1.77	1.12
58:CW:34:ALA:HA	58:CW:37:GLU:CG	1.79	1.12
59:CZ:26:VAL:HA	59:CZ:89:ILE:HD12	1.29	1.12
60:Cr:123:PRO:HD2	60:Cr:124:VAL:H	1.08	1.13
45:Ca:120:GLN:O	45:Ca:140:VAL:CG1	1.97	1.12
51:CA:174:ARG:CA	77:Cp:69:TRP:CZ3	2.32	1.12
51:CA:242:ARG:NH2	51:CA:247:ARG:NH2	1.97	1.12
56:CX:119:ILE:CD1	56:CX:140:LEU:CD2	2.15	1.12
60:Cr:77:TYR:HB3	60:Cr:79:ARG:NE	1.64	1.12
81:CE:120:ASP:O	81:CE:121:VAL:HB	1.46	1.12
82:CG:117:ARG:HG3	82:CG:130:THR:HG23	1.23	1.12
82:CG:184:ILE:HG23	82:CG:185:LYS:N	1.47	1.12
1:Az:198:GLY:HA2	1:Az:201:GLY:HA2	1.22	1.12
1:Az:240:GLY:HA3	1:Az:241:GLU:HB2	1.20	1.12
1:Az:297:ILE:O	1:Az:300:VAL:HG22	1.49	1.12
1:Az:763:LEU:HD11	1:Az:786:ALA:CB	1.79	1.12
5:AO:95:ILE:HD13	5:AO:116:LEU:HD21	1.18	1.12
10:AN:22:VAL:HB	10:AN:23:PRO:HA	1.20	1.12
11:AL:80:MET:HE3	11:AL:120:VAL:O	1.27	1.12
17:AV:23:ILE:CD1	28:AC:249:SER:HA	1.78	1.12
23:AD:197:LYS:HB2	23:AD:198:ILE:HG12	1.30	1.12
27:AE:149:TYR:CD2	29:AG:205:GLU:HB3	1.83	1.12
34:AQ:58:LEU:HD23	34:AQ:111:ILE:HD13	1.25	1.12
34:AQ:85:ARG:HD3	34:AQ:119:LEU:HD23	1.24	1.12
39:Cq:20:LEU:HD12	39:Cq:54:LEU:HD22	1.28	1.12
39:Cq:129:GLY:CA	40:CK:1:MET:O	1.96	1.12
40:CK:2:PRO:CA	40:CK:2:PRO:CD	2.26	1.12
42:CL:50:PRO:O	42:CL:151:THR:OG1	1.66	1.12
45:Ca:108:TYR:O	45:Ca:109:TYR:CD1	2.03	1.12
49:CQ:27:LEU:CD2	74:CC:289:LEU:HD11	1.76	1.12
51:CA:24:LYS:HE3	51:CA:24:LYS:N	1.61	1.12
53:CT:125:TRP:CD1	53:CT:126:VAL:CG2	2.30	1.12
53:CT:146:LYS:HB3	53:CT:146:LYS:NZ	1.44	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:80:LYS:HG2	55:CU:110:TYR:OH	1.47	1.12
56:CX:87:MET:CA	56:CX:90:ILE:HD12	1.79	1.12
57:CY:30:MET:HG3	57:CY:101:PRO:HG3	1.29	1.12
58:CW:34:ALA:HA	58:CW:37:GLU:HG3	1.27	1.12
63:CB:115:LYS:HD3	63:CB:129:ALA:HB3	1.26	1.12
65:Cc:11:LEU:HD12	65:Cc:12:GLU:O	1.49	1.12
74:CC:142:HIS:CE1	74:CC:249:PHE:N	2.17	1.12
76:Cn:3:ALA:HA	76:Cn:6:ARG:HD3	1.25	1.12
1:Az:165:LEU:CD1	1:Az:305:MET:CE	2.24	1.12
1:Az:509:VAL:HG21	1:Az:546:ILE:HD12	1.30	1.12
2:Ag:5:MET:HE1	2:Ag:312:VAL:CG1	1.78	1.12
2:Ag:298:LEU:HD11	2:Ag:310:TRP:CE3	1.85	1.12
3:AU:61:LEU:CD2	9:Ad:34:TYR:OH	1.97	1.12
5:AO:88:LEU:HD22	15:AB:25:PHE:CD2	1.83	1.12
6:AX:105:PHE:HE2	6:AX:119:ARG:CA	1.60	1.12
12:AR:19:LYS:CD	23:AD:212:GLU:HG2	1.80	1.12
13:AP:33:LEU:HD22	13:AP:87:PRO:CG	1.78	1.12
14:AT:18:LEU:HD13	14:AT:134:ILE:HD13	1.23	1.12
15:AB:57:ILE:HD13	15:AB:60:ASP:OD1	0.96	1.12
18:AY:32:LYS:HG3	18:AY:33:ALA:H	1.11	1.12
21:Ab:12:PRO:O	21:Ab:16:LYS:CD	1.96	1.12
23:AD:195:THR:HA	23:AD:197:LYS:O	1.49	1.12
27:AE:152:PRO:HD3	29:AG:212:LEU:HD23	1.30	1.12
27:AE:152:PRO:CD	29:AG:212:LEU:CD2	2.28	1.12
34:AQ:57:LEU:CD1	34:AQ:115:TYR:CE2	2.31	1.12
39:Cq:148:SER:OG	39:Cq:153:GLU:OE1	1.67	1.12
45:Ca:117:LEU:CD1	45:Ca:118:PRO:HD3	1.78	1.12
46:CN:99:GLN:CG	46:CN:130:PHE:CE1	2.32	1.12
46:CN:115:VAL:CA	46:CN:134:LEU:CD2	2.26	1.12
57:CY:89:LYS:HB3	57:CY:93:THR:OG1	1.48	1.12
63:CB:325:GLU:O	63:CB:326:VAL:HG12	1.49	1.12
74:CC:22:VAL:CG2	74:CC:258:ARG:NH2	2.12	1.12
78:Co:45:GLN:O	78:Co:45:GLN:HG3	1.50	1.12
80:CH:18:ILE:CD1	80:CH:55:LEU:HD12	1.80	1.12
80:CH:171:ASP:OD1	80:CH:173:ARG:HD3	1.49	1.12
1:Az:45:ILE:HG21	1:Az:78:PHE:N	1.19	1.12
1:Az:236:PHE:HE2	1:Az:273:PHE:CE1	1.65	1.12
2:Ag:55:PRO:CB	34:AQ:102:GLU:OE1	1.94	1.12
5:AO:136:PRO:O	5:AO:138:ASP:N	1.81	1.12
8:AS:39:ARG:NH2	14:AT:38:LYS:HZ1	1.40	1.12
8:AS:46:ARG:NH2	14:AT:50:GLU:CB	2.12	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:113:LEU:HD11	11:AL:120:VAL:HG21	1.25	1.12
12:AR:20:TYR:CZ	12:AR:38:ILE:CB	2.32	1.12
12:AR:100:PRO:HG2	12:AR:119:VAL:HG22	1.29	1.12
18:AY:34:THR:HG22	18:AY:35:VAL:N	1.61	1.12
21:Ab:33:MET:HE3	21:Ab:79:PHE:CG	1.73	1.12
23:AD:197:LYS:HB2	23:AD:198:ILE:HG13	1.15	1.12
27:AE:100:ARG:HD3	27:AE:102:ILE:CD1	1.78	1.12
28:AC:157:LEU:HA	28:AC:160:LEU:HD21	1.27	1.12
29:AG:14:LYS:NZ	29:AG:123:GLY:CA	2.11	1.12
30:AF:39:ILE:HG23	30:AF:68:ILE:HG21	1.20	1.12
39:Cq:25:PRO:HG2	39:Cq:92:LYS:HA	1.22	1.12
39:Cq:53:VAL:HG22	39:Cq:89:VAL:HG22	1.15	1.12
42:CL:191:LEU:HD23	42:CL:194:ILE:CD1	1.79	1.12
44:CM:63:LYS:HE2	44:CM:64:PHE:N	1.65	1.12
45:Ca:119:LYS:CA	45:Ca:140:VAL:HG13	1.78	1.12
47:CI:106:ALA:HB3	47:CI:108:ALA:HB1	1.15	1.12
51:CA:104:VAL:HG13	51:CA:107:MET:CE	1.79	1.12
55:CU:91:LEU:HD22	55:CU:96:LEU:HB2	1.26	1.12
58:CW:87:LEU:CA	58:CW:90:ILE:HD12	1.77	1.12
63:CB:47:LEU:CD2	63:CB:166:THR:HG23	1.79	1.12
70:Ci:33:LEU:CD1	70:Ci:34:THR:H	1.61	1.12
80:CH:93:ARG:CD	80:CH:143:GLU:CG	2.28	1.12
82:CG:190:LEU:C	82:CG:199:CYS:SG	2.32	1.12
1:Az:58:ASP:CG	1:Az:69:THR:HA	1.75	1.12
1:Az:79:TYR:CE2	1:Az:351:LEU:CD1	2.32	1.12
1:Az:448:GLN:HE21	1:Az:448:GLN:HA	0.95	1.12
1:Az:845:LYS:NZ	1:Az:846:GLU:H	1.48	1.12
2:Ag:55:PRO:CG	34:AQ:102:GLU:OE1	1.98	1.12
3:AU:67:LYS:HG2	3:AU:78:ASP:OD2	1.44	1.12
5:AO:130:GLU:OE1	15:AB:83:LYS:NZ	1.82	1.12
11:AL:22:ARG:HD3	33:AI:157:LYS:CB	1.78	1.12
11:AL:149:ALA:CB	11:AL:156:GLN:CB	2.17	1.12
26:AJ:72:PHE:CE1	27:AE:248:ILE:CB	2.33	1.12
35:Ah:151:PHE:HB2	35:Ah:153:VAL:CB	1.80	1.12
38:Cz:67:VAL:HG23	38:Cz:82:ILE:HD13	1.13	1.12
39:Cq:43:ILE:CD1	39:Cq:187:LEU:CD2	2.27	1.12
39:Cq:245:TYR:CE1	83:Ct:60:ILE:CD1	2.32	1.12
42:CL:19:GLN:HB3	42:CL:20:ARG:HH11	1.01	1.12
52:CS:83:ARG:HD2	53:CT:156:TYR:H	1.15	1.12
63:CB:154:LYS:O	63:CB:154:LYS:HD2	1.48	1.12
65:Cc:11:LEU:HA	65:Cc:12:GLU:HB2	1.16	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:22:LEU:CD2	79:CJ:130:PHE:CE2	2.32	1.12
80:CH:94:SER:OG	80:CH:142:ASP:HB3	1.48	1.12
81:CE:75:ALA:CB	81:CE:76:ALA:HB3	1.80	1.12
81:CE:181:LEU:HD21	81:CE:268:GLN:CG	1.80	1.12
84:Cu:23:ILE:CG2	84:Cu:39:LEU:HD22	1.79	1.12
1:Az:752:PRO:O	1:Az:754:GLN:N	1.83	1.11
2:Ag:5:MET:CE	2:Ag:312:VAL:HG13	1.78	1.11
12:AR:17:ILE:HG22	12:AR:69:ILE:HD11	1.14	1.11
18:AY:10:ARG:HG2	18:AY:24:VAL:HB	1.31	1.11
22:Ac:60:GLU:CD	30:AF:204:ARG:NH1	2.08	1.11
23:AD:195:THR:O	23:AD:197:LYS:HG2	1.48	1.11
30:AF:41:VAL:HG22	30:AF:42:LYS:CD	1.80	1.11
30:AF:41:VAL:HG22	30:AF:42:LYS:N	1.53	1.11
30:AF:176:GLU:OE1	30:AF:187:SER:OG	1.63	1.11
38:Cz:80:VAL:HG11	38:Cz:147:LYS:HB3	1.31	1.11
38:Cz:82:ILE:HD12	38:Cz:147:LYS:HD2	1.28	1.11
41:CO:9:LEU:CD2	52:CS:167:PHE:HD1	1.43	1.11
41:CO:16:LEU:CD1	41:CO:43:ILE:CG1	2.27	1.11
50:CR:31:GLU:OE2	55:CU:125:GLU:N	1.83	1.11
58:CW:63:GLN:HG2	58:CW:64:SER:H	1.06	1.11
63:CB:165:HIS:HB2	63:CB:180:LEU:HD12	1.21	1.11
74:CC:147:VAL:HA	74:CC:175:LYS:HG2	1.15	1.11
74:CC:314:LEU:HD23	74:CC:314:LEU:N	1.62	1.11
74:CC:318:PRO:O	74:CC:320:LYS:N	1.81	1.11
79:CJ:26:VAL:HB	79:CJ:33:LEU:CD2	1.80	1.11
79:CJ:48:PRO:CA	79:CJ:72:CYS:SG	2.38	1.11
79:CJ:128:LEU:CD1	79:CJ:130:PHE:HE2	1.42	1.11
80:CH:34:LEU:CD1	80:CH:150:ASP:OD1	1.98	1.11
81:CE:46:ARG:NE	81:CE:47:ASN:N	1.98	1.11
1:Az:49:ALA:HA	1:Az:55:ARG:HH21	1.13	1.11
1:Az:60:ARG:HD2	1:Az:60:ARG:C	1.72	1.11
2:Ag:172:LYS:CD	2:Ag:191:HIS:O	1.98	1.11
2:Ag:286:CYS:HB2	2:Ag:302:TYR:CE2	1.85	1.11
4:AK:11:ILE:HG21	4:AK:49:MET:HE2	1.24	1.11
8:AS:123:LEU:HD12	13:AP:121:ILE:CG2	1.80	1.11
11:AL:147:LYS:HD3	11:AL:147:LYS:C	1.73	1.11
12:AR:85:VAL:HG22	16:AA:201:LEU:HB2	1.20	1.11
13:AP:41:GLN:CB	13:AP:84:ILE:HG12	1.80	1.11
16:AA:5:LEU:CB	17:AV:41:LYS:HE2	1.79	1.11
16:AA:45:GLY:O	16:AA:46:ILE:HG12	1.49	1.11
16:AA:120:ARG:HD2	28:AC:266:TYR:CE2	1.85	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AV:17:CYS:SG	17:AV:56:CYS:CB	2.38	1.11
22:Ac:15:THR:HG22	22:Ac:33:GLU:HG2	1.12	1.11
23:AD:214:LYS:HG3	23:AD:215:ASP:OD2	1.48	1.11
26:AJ:170:PRO:CG	26:AJ:175:ARG:HG3	1.80	1.11
27:AE:19:MET:HE2	36:B2:846:G:H2'	1.26	1.11
31:AH:144:ILE:CD1	32:AW:52:ILE:HG21	1.79	1.11
35:Ah:290:LEU:O	35:Ah:294:LYS:HG3	1.51	1.11
38:Cz:24:LYS:HD3	38:Cz:172:VAL:HG11	1.21	1.11
39:Cq:26:LYS:HG3	39:Cq:27:CYS:N	1.58	1.11
39:Cq:81:HIS:HD2	39:Cq:191:GLN:CG	1.53	1.11
41:CO:88:LEU:HD12	41:CO:99:LEU:CD2	1.80	1.11
42:CL:182:LEU:HD12	45:Ca:129:PHE:CE2	1.71	1.11
48:CD:142:PHE:CB	48:CD:171:LEU:HD22	1.81	1.11
63:CB:142:GLY:HA2	63:CB:147:GLU:H	1.02	1.11
66:Cd:75:LYS:HG3	66:Cd:79:ASN:O	1.47	1.11
74:CC:311:ARG:HB3	74:CC:311:ARG:HH11	1.04	1.11
80:CH:109:GLY:HA2	80:CH:128:MET:HB2	1.16	1.11
81:CE:138:ARG:NH2	81:CE:169:ALA:C	2.06	1.11
81:CE:181:LEU:CD1	81:CE:268:GLN:HG3	1.80	1.11
82:CG:75:LYS:CD	82:CG:240:ASN:HB2	1.73	1.11
82:CG:255:LYS:HE2	82:CG:259:LYS:CE	1.80	1.11
3:AU:59:LYS:HB2	3:AU:84:ILE:HG22	1.21	1.11
4:AK:14:LEU:CD2	4:AK:35:LEU:HD22	1.80	1.11
4:AK:28:HIS:CE1	9:Ad:8:TRP:NE1	2.18	1.11
13:AP:107:ILE:HA	13:AP:111:MET:CE	1.80	1.11
15:AB:105:LEU:HD11	15:AB:213:ARG:HB2	1.17	1.11
20:Aa:107:ALA:HB1	20:Aa:108:PRO:HD2	1.31	1.11
21:Ab:16:LYS:HA	21:Ab:23:ARG:HH21	0.96	1.11
28:AC:169:TYR:OH	28:AC:177:PRO:HD3	1.50	1.11
30:AF:167:LYS:HD3	30:AF:171:GLU:HG3	1.29	1.11
31:AH:8:ILE:CG2	31:AH:9:VAL:HG22	1.79	1.11
34:AQ:19:ALA:HB2	34:AQ:74:GLY:O	1.50	1.11
38:Cz:100:VAL:C	38:Cz:101:LYS:N	2.08	1.11
39:Cq:116:ILE:HG23	39:Cq:166:LYS:NZ	1.62	1.11
39:Cq:215:PHE:CZ	83:Cs:56:ILE:HG23	1.86	1.11
39:Cq:277:ALA:O	39:Cq:280:PRO:CG	1.98	1.11
40:CK:114:ARG:HD3	40:CK:130:LYS:HA	1.26	1.11
41:CO:191:LYS:O	41:CO:194:GLU:HG3	1.51	1.11
46:CN:11:TRP:CG	46:CN:44:ARG:HH22	1.68	1.11
49:CQ:110:ARG:NH1	74:CC:281:MET:CE	2.12	1.11
49:CQ:154:LYS:HB3	49:CQ:155:ALA:HB3	1.18	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:15:ARG:NH2	52:CS:24:THR:OG1	1.84	1.11
56:CX:40:ILE:HG12	56:CX:41:ARG:N	1.48	1.11
56:CX:52:LEU:CD1	56:CX:54:LEU:H	1.63	1.11
60:Cr:90:LEU:CB	60:Cr:118:LEU:HD11	1.79	1.11
63:CB:153:MET:CE	63:CB:160:ILE:HG12	1.80	1.11
69:Cg:8:ARG:CB	69:Cg:34:TYR:CE2	2.32	1.11
69:Cg:29:ARG:CD	69:Cg:30:ILE:H	1.63	1.11
74:CC:313:VAL:HG13	74:CC:314:LEU:N	1.61	1.11
77:Cp:47:MET:SD	77:Cp:57:CYS:HB2	1.90	1.11
81:CE:145:THR:HG21	81:CE:200:LYS:CG	1.80	1.11
1:Az:56:PHE:HZ	1:Az:455:GLY:C	1.57	1.11
5:AO:20:GLN:HG2	5:AO:21:VAL:N	1.61	1.11
8:AS:42:HIS:CD2	14:AT:45:LEU:CD2	2.25	1.11
10:AN:38:TYR:CD1	10:AN:78:LYS:HD2	1.86	1.11
12:AR:1:MET:CB	12:AR:2:GLY:N	2.13	1.11
13:AP:53:GLN:HG2	13:AP:80:LEU:HD13	1.23	1.11
15:AB:135:LEU:HD21	15:AB:217:MET:SD	1.91	1.11
19:AZ:69:THR:HB	19:AZ:70:PRO:HD3	1.24	1.11
23:AD:218:LEU:HD12	23:AD:220:THR:HG21	1.19	1.11
28:AC:99:GLY:HA2	28:AC:102:LEU:HB3	1.30	1.11
30:AF:42:LYS:O	30:AF:44:LYS:CA	1.98	1.11
33:AI:114:GLU:OE1	33:AI:133:GLU:HG3	1.50	1.11
40:CK:123:ARG:HD2	40:CK:129:ILE:CG1	1.80	1.11
41:CO:177:LEU:HD22	44:CM:130:LEU:CG	1.80	1.11
45:Ca:117:LEU:HD12	45:Ca:118:PRO:HD2	1.13	1.11
48:CD:104:LEU:HD23	48:CD:247:ILE:HG21	1.23	1.11
52:CS:74:ARG:HB3	52:CS:76:LYS:HZ2	1.00	1.11
55:CU:59:GLY:O	55:CU:61:VAL:HG22	0.96	1.11
59:CZ:73:LYS:HG2	59:CZ:75:TYR:CE2	1.84	1.11
60:Cr:4:HIS:HD2	74:CC:288:ASP:HA	1.15	1.11
64:CF:29:LYS:HG3	64:CF:30:ILE:HD12	1.29	1.11
70:Ci:63:VAL:CG1	70:Ci:64:SER:H	1.55	1.11
74:CC:288:ASP:OD2	74:CC:291:ARG:HB3	1.49	1.11
79:CJ:26:VAL:HG11	79:CJ:33:LEU:HD23	1.16	1.11
80:CH:93:ARG:NE	80:CH:143:GLU:CG	2.14	1.11
81:CE:144:ILE:HD11	81:CE:196:ALA:HB2	1.24	1.11
1:Az:40:VAL:O	1:Az:43:ALA:HB3	1.49	1.11
1:Az:42:LYS:CG	1:Az:79:TYR:OH	1.98	1.11
2:Ag:286:CYS:HB2	2:Ag:302:TYR:CZ	1.85	1.11
6:AX:60:LYS:HE2	6:AX:116:PRO:HG3	1.29	1.11
6:AX:128:VAL:O	6:AX:128:VAL:HG13	1.51	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:49:LEU:CD1	13:AP:51:ARG:NE	2.02	1.11
13:AP:49:LEU:HA	13:AP:51:ARG:HG3	1.29	1.11
15:AB:52:THR:CB	82:CG:264:LYS:NZ	2.14	1.11
15:AB:113:MET:HE3	15:AB:209:ASP:OD1	0.93	1.11
22:Ac:47:LYS:HE3	30:AF:141:VAL:HB	1.26	1.11
23:AD:213:PRO:O	23:AD:214:LYS:HB3	1.50	1.11
27:AE:89:VAL:O	27:AE:99:PHE:O	1.68	1.11
30:AF:25:THR:HG22	30:AF:42:LYS:CD	1.78	1.11
30:AF:42:LYS:N	30:AF:42:LYS:HD3	1.39	1.11
40:CK:152:ILE:O	40:CK:155:ILE:HG13	1.47	1.11
41:CO:65:ASN:CG	41:CO:68:ARG:CD	2.24	1.11
42:CL:55:ILE:CD1	42:CL:120:TYR:CD1	2.32	1.11
42:CL:127:PHE:CZ	42:CL:144:LEU:CB	2.33	1.11
42:CL:182:LEU:HD12	45:Ca:129:PHE:HE2	0.96	1.11
43:CV:99:GLU:OE1	58:CW:23:ARG:HG3	1.50	1.11
48:CD:64:ILE:CD1	48:CD:105:LEU:HD11	1.80	1.11
52:CS:98:ARG:NH1	52:CS:145:PHE:HB3	1.65	1.11
60:Cr:55:ALA:H	60:Cr:56:ASP:HB3	1.09	1.11
60:Cr:90:LEU:CD2	60:Cr:118:LEU:CD1	2.17	1.11
61:Ch:44:LEU:O	61:Ch:47:ILE:CG2	1.99	1.11
63:CB:115:LYS:HD3	63:CB:129:ALA:CB	1.81	1.11
65:Cc:44:LYS:CE	65:Cc:97:ILE:HG23	1.81	1.11
69:Cg:78:TYR:CE1	69:Cg:90:ARG:NH1	2.19	1.11
78:Co:43:ARG:NH2	85:A5:294:G:H4'	1.65	1.11
78:Co:74:GLU:CB	78:Co:75:PRO:CD	2.29	1.11
6:AX:139:GLU:C	6:AX:141:PRO:HD3	1.76	1.10
16:AA:58:LEU:HD23	16:AA:178:LEU:CD2	1.74	1.10
16:AA:118:GLU:CB	28:AC:65:LYS:NZ	2.11	1.10
24:Ae:30:GLY:N	26:AJ:38:ARG:NH2	1.90	1.10
27:AE:47:PHE:CZ	27:AE:52:LEU:HD11	1.86	1.10
29:AG:41:LEU:HD21	29:AG:45:TRP:CZ3	1.61	1.10
29:AG:129:VAL:CB	58:CW:80:ARG:NH1	2.12	1.10
29:AG:210:ALA:O	29:AG:213:LEU:HG	1.51	1.10
30:AF:20:PHE:O	30:AF:22:LYS:N	1.83	1.10
31:AH:12:ASN:ND2	31:AH:46:THR:OG1	1.81	1.10
31:AH:145:ARG:HD2	32:AW:51:GLU:HG2	1.30	1.10
33:AI:114:GLU:OE1	33:AI:133:GLU:CG	1.99	1.10
34:AQ:85:ARG:NH2	34:AQ:117:ARG:HG2	1.63	1.10
41:CO:64:THR:HG21	63:CB:261:ARG:CD	1.80	1.10
41:CO:127:VAL:HG13	52:CS:158:VAL:HG23	1.18	1.10
42:CL:50:PRO:CG	42:CL:51:ALA:CB	2.29	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:24:LEU:HD11	44:CM:86:TRP:CD1	1.84	1.10
44:CM:63:LYS:HE2	44:CM:63:LYS:C	1.75	1.10
45:Ca:48:TYR:N	49:CQ:156:PRO:CG	2.12	1.10
47:CI:99:ILE:HD12	47:CI:123:GLN:NE2	1.65	1.10
47:CI:101:LYS:O	47:CI:103:LEU:CD2	1.99	1.10
47:CI:214:SER:C	48:CD:291:GLN:NE2	2.09	1.10
48:CD:64:ILE:HD12	48:CD:105:LEU:HD11	1.11	1.10
49:CQ:6:ARG:HH22	64:CF:113:ARG:HA	1.12	1.10
49:CQ:132:LYS:HE3	74:CC:301:ALA:HB1	1.32	1.10
53:CT:18:PRO:O	53:CT:21:LYS:HB2	1.50	1.10
63:CB:235:TRP:O	63:CB:236:HIS:HB2	1.37	1.10
66:Cd:112:THR:CB	66:Cd:113:THR:CG2	2.29	1.10
77:Cp:27:LYS:HE3	77:Cp:31:ILE:CD1	1.81	1.10
82:CG:183:ILE:HG22	82:CG:184:ILE:HA	1.31	1.10
83:Cs:21:VAL:HG12	83:Cs:27:LYS:HD3	1.16	1.10
83:Ct:41:PRO:O	83:Ct:44:PRO:HD2	1.46	1.10
1:Az:4:PHE:O	1:Az:46:ILE:HD11	0.93	1.10
1:Az:24:VAL:CG2	1:Az:32:LYS:HE3	1.81	1.10
1:Az:45:ILE:CG1	1:Az:46:ILE:H	1.57	1.10
1:Az:692:LEU:HD12	1:Az:824:PRO:HB2	1.22	1.10
2:Ag:7:LEU:HD11	2:Ag:310:TRP:HE1	1.01	1.10
2:Ag:20:GLN:HE21	2:Ag:68:ASP:CG	1.58	1.10
8:AS:58:GLU:C	8:AS:59:LEU:CD1	2.22	1.10
12:AR:85:VAL:CG2	16:AA:201:LEU:HD13	1.80	1.10
12:AR:91:LEU:HD12	12:AR:91:LEU:N	1.66	1.10
12:AR:105:MET:HG3	16:AA:48:ILE:CG2	1.76	1.10
18:AY:7:ILE:CD1	18:AY:43:LYS:CG	2.30	1.10
18:AY:62:THR:HG22	18:AY:69:THR:CG2	1.80	1.10
18:AY:63:HIS:HB3	18:AY:64:PHE:CD1	1.86	1.10
19:AZ:70:PRO:HD2	19:AZ:71:ALA:H	1.13	1.10
25:Af:106:TYR:OH	25:Af:131:PHE:CE2	2.03	1.10
28:AC:75:ILE:O	28:AC:97:PHE:CE1	2.03	1.10
31:AH:8:ILE:HG23	31:AH:9:VAL:CG2	1.80	1.10
31:AH:146:VAL:CG2	32:AW:50:PHE:CZ	2.32	1.10
34:AQ:54:PRO:HG3	34:AQ:88:ILE:CD1	1.82	1.10
40:CK:97:ASN:OD1	40:CK:98:ILE:HD11	1.51	1.10
40:CK:102:GLY:O	40:CK:139:VAL:O	1.67	1.10
42:CL:31:ARG:NH1	42:CL:34:ARG:CB	2.14	1.10
44:CM:25:VAL:HG11	44:CM:38:VAL:CG1	1.78	1.10
45:Ca:117:LEU:CD1	45:Ca:118:PRO:CD	2.30	1.10
46:CN:28:TRP:CZ3	82:CG:67:ARG:NE	2.20	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:76:MET:HE1	47:CI:148:VAL:CA	1.82	1.10
47:CI:99:ILE:HD12	47:CI:123:GLN:CD	1.76	1.10
47:CI:185:VAL:HG23	47:CI:190:LEU:HD12	1.10	1.10
48:CD:42:ASN:ND2	53:CT:67:VAL:O	1.84	1.10
48:CD:104:LEU:HD21	48:CD:247:ILE:CG1	1.80	1.10
48:CD:197:LYS:HD2	48:CD:202:GLN:HG2	1.12	1.10
50:CR:71:ARG:HH11	50:CR:71:ARG:HB3	1.02	1.10
52:CS:34:ALA:HB1	52:CS:39:VAL:CG2	1.80	1.10
53:CT:145:GLY:C	53:CT:146:LYS:HG2	1.75	1.10
56:CX:80:PRO:HG2	61:Ch:33:VAL:HG22	1.30	1.10
57:CY:34:LEU:HD11	57:CY:38:LEU:HB3	1.33	1.10
59:CZ:29:ILE:HD13	59:CZ:40:HIS:NE2	1.66	1.10
60:Cr:42:GLY:C	60:Cr:43:LEU:HD23	1.73	1.10
64:CF:41:MET:CE	85:A5:2121:C:H5'	1.80	1.10
66:Cd:111:VAL:HG12	66:Cd:112:THR:H	1.07	1.10
69:Cg:57:ARG:HH11	69:Cg:57:ARG:HG2	1.10	1.10
78:Co:66:ILE:CB	78:Co:85:ILE:HD12	1.80	1.10
79:CJ:103:GLY:HA3	79:CJ:157:ILE:HG22	1.23	1.10
80:CH:158:ALA:O	80:CH:161:ILE:HG22	1.50	1.10
83:Cs:43:TRP:O	83:Cs:47:PHE:HD2	1.14	1.10
83:Ct:11:TYR:C	84:Cv:9:LEU:HD21	1.74	1.10
1:Az:479:LEU:HD21	1:Az:483:GLY:HA3	1.15	1.10
1:Az:481:LYS:HG3	1:Az:482:THR:N	1.37	1.10
1:Az:562:GLU:HA	1:Az:570:ILE:HD11	1.25	1.10
1:Az:592:LEU:HD12	1:Az:592:LEU:C	1.76	1.10
1:Az:746:LEU:HD11	1:Az:785:LYS:CG	1.81	1.10
2:Ag:32:LEU:HB2	2:Ag:71:ILE:HD11	1.27	1.10
2:Ag:49:GLU:O	2:Ag:50:THR:HG23	1.50	1.10
4:AK:40:VAL:HG22	4:AK:41:PRO:N	1.59	1.10
8:AS:123:LEU:HD12	13:AP:121:ILE:HG21	1.11	1.10
11:AL:147:LYS:HD2	11:AL:148:ALA:HA	1.12	1.10
16:AA:106:GLY:O	16:AA:113:GLN:OE1	1.67	1.10
18:AY:120:THR:HB	18:AY:122:LYS:HE2	1.21	1.10
19:AZ:99:LEU:CD1	19:AZ:102:LYS:CE	2.14	1.10
23:AD:212:GLU:HB2	23:AD:213:PRO:HD2	1.28	1.10
26:AJ:178:ALA:O	26:AJ:182:GLN:HG3	1.52	1.10
27:AE:129:ILE:HG12	27:AE:139:LEU:HD21	1.20	1.10
28:AC:70:VAL:CG2	28:AC:97:PHE:HE2	1.63	1.10
40:CK:10:ILE:HG22	40:CK:65:GLN:O	1.51	1.10
41:CO:65:ASN:CB	41:CO:68:ARG:CD	2.30	1.10
49:CQ:66:MET:SD	49:CQ:100:VAL:HG21	1.91	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:83:VAL:HA	49:CQ:123:PHE:HZ	1.16	1.10
55:CU:84:LYS:HE2	55:CU:102:VAL:HB	1.32	1.10
59:CZ:19:SER:OG	69:Cg:76:ARG:HG3	1.49	1.10
59:CZ:95:VAL:CG2	59:CZ:113:GLU:OE1	1.98	1.10
63:CB:108:GLU:HG3	63:CB:137:TRP:NE1	1.65	1.10
79:CJ:95:ARG:H	79:CJ:98:ASN:ND2	1.48	1.10
81:CE:45:SER:HB3	81:CE:49:VAL:HB	1.12	1.10
82:CG:28:VAL:HA	82:CG:31:LEU:HD23	1.30	1.10
82:CG:75:LYS:CD	82:CG:240:ASN:HB3	1.76	1.10
1:Az:21:ASN:ND2	1:Az:469:ILE:HD11	1.66	1.10
1:Az:93:LYS:HD2	1:Az:93:LYS:C	1.76	1.10
1:Az:752:PRO:HD2	1:Az:755:VAL:CG2	1.81	1.10
3:AU:103:SER:O	3:AU:106:ILE:CG2	1.99	1.10
4:AK:88:GLU:OE2	35:Ah:282:GLU:HG2	1.51	1.10
10:AN:24:THR:HG21	21:Ab:84:HIS:CE1	1.84	1.10
10:AN:28:LEU:O	10:AN:29:THR:CG2	1.99	1.10
11:AL:40:ILE:HD11	11:AL:68:ILE:HB	1.30	1.10
12:AR:91:LEU:HB2	12:AR:92:ASP:C	1.77	1.10
15:AB:36:PRO:CB	15:AB:231:LEU:HD21	1.82	1.10
15:AB:160:GLN:NE2	15:AB:205:TYR:CD1	2.18	1.10
16:AA:97:THR:HG22	16:AA:98:PRO:HD2	1.31	1.10
25:Af:102:VAL:HG12	25:Af:103:LEU:N	1.52	1.10
26:AJ:119:LEU:N	26:AJ:119:LEU:HD23	1.63	1.10
30:AF:116:ILE:HD13	30:AF:116:ILE:N	1.64	1.10
31:AH:36:LEU:O	31:AH:36:LEU:HD12	1.51	1.10
39:Cq:242:ILE:CG1	83:Ct:63:VAL:HG21	1.81	1.10
46:CN:64:ILE:HD11	46:CN:102:ALA:HA	1.14	1.10
48:CD:104:LEU:CD2	48:CD:247:ILE:CG2	2.30	1.10
48:CD:146:LEU:CD2	48:CD:163:LEU:HD13	1.81	1.10
50:CR:44:LEU:O	50:CR:47:ASP:OD1	1.68	1.10
51:CA:143:THR:CA	51:CA:144:LYS:CG	2.30	1.10
54:CP:10:ASN:ND2	54:CP:12:THR:OG1	1.85	1.10
54:CP:27:LYS:HE2	54:CP:63:TYR:HD1	1.10	1.10
63:CB:195:ASP:HA	63:CB:198:ARG:HD3	1.20	1.10
63:CB:356:LYS:CE	63:CB:356:LYS:HA	1.69	1.10
65:Cc:13:SER:CB	65:Cc:17:ARG:NH2	2.15	1.10
66:Cd:60:PRO:HB2	66:Cd:100:ASN:HD22	1.05	1.10
75:Cm:127:VAL:HG13	75:Cm:128:LYS:O	0.94	1.10
81:CE:47:ASN:HB3	81:CE:48:PRO:HD2	1.31	1.10
81:CE:218:LYS:HB2	81:CE:220:LYS:HE3	1.34	1.10
82:CG:151:LYS:O	82:CG:205:THR:CG2	2.00	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:106:PRO:HD2	1:Az:115:VAL:HG22	1.18	1.10
1:Az:518:PRO:HB3	6:AX:50:ILE:HD11	1.24	1.10
2:Ag:282:GLU:CG	2:Ag:283:PRO:CD	2.29	1.10
4:AK:71:LEU:HD23	4:AK:76:ILE:CD1	1.81	1.10
6:AX:52:LEU:HD21	6:AX:71:ARG:HB3	1.26	1.10
8:AS:58:GLU:O	8:AS:59:LEU:HD22	1.50	1.10
12:AR:38:ILE:C	23:AD:211:VAL:CG2	2.23	1.10
14:AT:143:LYS:HD2	14:AT:144:LYS:N	1.65	1.10
16:AA:30:LEU:CD2	16:AA:35:GLU:HG3	1.79	1.10
16:AA:205:ARG:CG	16:AA:206:ASP:H	1.65	1.10
18:AY:34:THR:O	18:AY:35:VAL:CG2	1.97	1.10
21:Ab:2:PRO:C	21:Ab:3:LEU:HD23	1.76	1.10
26:AJ:89:GLU:CA	26:AJ:92:MET:CG	2.29	1.10
26:AJ:179:LYS:HG2	26:AJ:182:GLN:OE1	1.50	1.10
29:AG:195:LYS:HD3	36:B2:126:G:H5'	1.32	1.10
32:AW:11:LEU:O	32:AW:14:ILE:CG1	1.99	1.10
34:AQ:44:PRO:HG2	34:AQ:81:ILE:HD11	1.28	1.10
38:Cz:18:LEU:HD11	38:Cz:180:VAL:HB	1.21	1.10
38:Cz:210:MET:N	38:Cz:210:MET:HA	1.48	1.10
41:CO:27:VAL:HG12	41:CO:98:ALA:HB1	1.20	1.10
42:CL:20:ARG:HD2	42:CL:20:ARG:N	1.59	1.10
42:CL:136:LYS:N	42:CL:137:GLY:HA2	1.53	1.10
47:CI:106:ALA:CA	47:CI:108:ALA:CB	2.30	1.10
48:CD:261:VAL:CG1	48:CD:262:LYS:CA	2.29	1.10
48:CD:270:LYS:O	48:CD:271:MET:HG2	1.51	1.10
50:CR:11:ALA:HB1	50:CR:50:ILE:CD1	1.82	1.10
50:CR:68:LEU:HD12	50:CR:69:ALA:N	1.65	1.10
51:CA:66:PRO:HB2	51:CA:67:TYR:CD2	1.87	1.10
52:CS:34:ALA:HB1	52:CS:39:VAL:HG23	1.10	1.10
53:CT:134:PRO:CB	53:CT:135:PRO:CD	2.27	1.10
57:CY:34:LEU:CD1	57:CY:38:LEU:CD1	2.28	1.10
57:CY:126:ARG:HH22	57:CY:130:LYS:HD3	1.06	1.10
60:Cr:28:GLU:OE1	60:Cr:29:PRO:HD2	1.50	1.10
60:Cr:44:ILE:HG22	60:Cr:45:HIS:H	0.98	1.10
65:Cc:10:SER:O	65:Cc:11:LEU:HD23	1.50	1.10
66:Cd:91:LYS:HD3	66:Cd:92:ARG:H	1.09	1.10
66:Cd:111:VAL:HG12	66:Cd:112:THR:N	1.59	1.10
66:Cd:116:ASN:O	66:Cd:117:LEU:CD1	1.99	1.10
67:Ce:6:PRO:HD3	67:Ce:93:LYS:HE3	1.10	1.10
74:CC:29:LYS:HD2	74:CC:29:LYS:N	1.66	1.10
78:Co:74:GLU:CB	78:Co:75:PRO:HD3	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:113:GLU:OE2	80:CH:123:ILE:HD11	0.94	1.10
81:CE:47:ASN:CB	81:CE:48:PRO:CD	2.30	1.10
82:CG:27:VAL:C	82:CG:31:LEU:HD21	1.76	1.10
84:Cu:7:TYR:CE2	84:Cu:42:VAL:HG11	1.86	1.10
1:Az:396:MET:HE1	1:Az:472:LEU:CD1	1.81	1.09
1:Az:613:LEU:HD13	1:Az:639:TYR:CB	1.81	1.09
2:Ag:172:LYS:HE2	2:Ag:192:THR:HG22	1.15	1.09
4:AK:28:HIS:HE1	9:Ad:8:TRP:NE1	1.50	1.09
4:AK:88:GLU:OE2	35:Ah:282:GLU:HA	1.51	1.09
5:AO:23:GLU:O	5:AO:23:GLU:HG2	1.52	1.09
7:AM:12:MET:HG3	7:AM:16:THR:HG23	1.10	1.09
8:AS:139:THR:O	8:AS:141:ARG:HG3	1.46	1.09
12:AR:100:PRO:HB2	12:AR:119:VAL:HG21	1.24	1.09
12:AR:122:PRO:CA	12:AR:123:THR:CG2	2.30	1.09
15:AB:105:LEU:CD1	15:AB:110:MET:HE2	1.80	1.09
16:AA:97:THR:HG23	16:AA:98:PRO:HD2	1.21	1.09
26:AJ:115:PHE:HD1	26:AJ:122:SER:N	1.48	1.09
27:AE:23:LEU:O	27:AE:24:THR:HG23	1.52	1.09
29:AG:213:LEU:O	29:AG:217:MET:HG2	1.50	1.09
34:AQ:8:GLN:CB	34:AQ:99:TYR:CE1	2.35	1.09
34:AQ:105:LYS:HD2	34:AQ:105:LYS:O	1.50	1.09
39:Cq:264:LYS:CE	84:Cv:1:MET:SD	2.39	1.09
42:CL:50:PRO:CB	42:CL:51:ALA:CA	2.28	1.09
46:CN:21:PHE:HE2	82:CG:80:ILE:CD1	1.55	1.09
46:CN:58:GLY:HA3	46:CN:139:HIS:CD2	1.77	1.09
47:CI:16:PRO:HG3	47:CI:128:ARG:HH11	1.02	1.09
48:CD:246:ALA:O	48:CD:249:GLU:CG	1.99	1.09
48:CD:261:VAL:CB	48:CD:262:LYS:CA	2.29	1.09
49:CQ:26:ARG:HH12	60:Cr:11:ARG:NH2	1.49	1.09
49:CQ:110:ARG:NH2	49:CQ:120:ILE:HD12	1.66	1.09
50:CR:11:ALA:CB	50:CR:50:ILE:HD11	1.82	1.09
50:CR:31:GLU:OE2	55:CU:125:GLU:CA	2.00	1.09
56:CX:43:SER:H	82:CG:51:LEU:HD11	1.05	1.09
68:Cf:7:SER:HB3	81:CE:283:PRO:HG3	1.13	1.09
74:CC:309:ILE:HG23	74:CC:310:HIS:N	1.58	1.09
78:Co:65:LYS:HE3	78:Co:87:ARG:HG2	1.13	1.09
78:Co:66:ILE:HD12	78:Co:85:ILE:HB	1.28	1.09
81:CE:46:ARG:HE	81:CE:46:ARG:HA	1.07	1.09
82:CG:151:LYS:C	82:CG:205:THR:HG22	1.76	1.09
83:Ct:11:TYR:CB	84:Cv:9:LEU:HD23	1.80	1.09
1:Az:845:LYS:HE3	1:Az:846:GLU:N	1.67	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:50:VAL:HG13	3:AU:51:LYS:H	0.98	1.09
5:AO:88:LEU:CD2	15:AB:25:PHE:CD2	2.34	1.09
7:AM:116:LYS:O	7:AM:117:GLU:HB2	1.43	1.09
9:Ad:27:ARG:HH11	9:Ad:27:ARG:CB	1.66	1.09
11:AL:94:HIS:HB2	11:AL:105:ARG:HD2	1.33	1.09
11:AL:157:LYS:C	11:AL:158:PHE:HD2	1.56	1.09
12:AR:122:PRO:CB	12:AR:123:THR:CG2	2.29	1.09
15:AB:71:LEU:CD1	15:AB:84:PHE:CE2	2.32	1.09
18:AY:61:ARG:HH21	18:AY:61:ARG:CG	1.66	1.09
21:Ab:33:MET:HE2	21:Ab:35:VAL:HG22	1.12	1.09
26:AJ:114:VAL:HG12	26:AJ:120:ALA:HB2	1.23	1.09
30:AF:201:LYS:HE3	30:AF:204:ARG:HH21	1.16	1.09
34:AQ:85:ARG:HD3	34:AQ:119:LEU:CD2	1.81	1.09
35:Ah:151:PHE:CB	35:Ah:153:VAL:CG2	2.29	1.09
35:Ah:155:ARG:N	35:Ah:156:PRO:HD2	1.62	1.09
39:Cq:246:LYS:CE	83:Ct:63:VAL:HG11	1.80	1.09
39:Cq:246:LYS:HE3	83:Ct:63:VAL:HG11	1.13	1.09
39:Cq:251:LEU:HD12	84:Cv:8:LEU:HD21	1.29	1.09
40:CK:94:LYS:CD	40:CK:96:LYS:CE	2.28	1.09
41:CO:128:ARG:NE	52:CS:161:ARG:NH2	1.92	1.09
44:CM:107:PHE:CE1	81:CE:270:TYR:CD1	2.40	1.09
46:CN:8:GLN:HE21	46:CN:50:ARG:NH2	1.50	1.09
47:CI:16:PRO:HG3	47:CI:128:ARG:NH1	1.68	1.09
47:CI:174:THR:HB	47:CI:176:PHE:CD2	1.85	1.09
48:CD:117:LYS:O	48:CD:120:GLU:OE2	1.70	1.09
48:CD:129:GLU:HG2	48:CD:177:THR:CG2	1.82	1.09
51:CA:253:GLN:HG3	51:CA:255:LYS:HD2	1.15	1.09
53:CT:33:ILE:HD13	53:CT:33:ILE:N	1.61	1.09
58:CW:27:LYS:HG3	58:CW:28:VAL:N	1.43	1.09
60:Cr:71:ARG:HH11	60:Cr:71:ARG:HB3	1.17	1.09
63:CB:41:VAL:CA	63:CB:187:GLY:HA3	1.82	1.09
63:CB:173:LEU:HD12	63:CB:342:LYS:HE2	1.13	1.09
70:CI:63:VAL:HG12	70:CI:64:SER:N	1.57	1.09
73:CI:2:SER:CB	73:CI:5:LYS:HG2	1.82	1.09
74:CC:272:SER:O	74:CC:273:LEU:HB2	1.51	1.09
78:Co:72:CYS:CA	78:Co:73:VAL:HG23	1.81	1.09
79:CJ:134:LEU:O	79:CJ:157:ILE:HD12	1.49	1.09
79:CJ:163:MET:HE3	79:CJ:174:ILE:HD11	1.25	1.09
81:CE:150:LEU:HB3	81:CE:194:VAL:HG11	1.12	1.09
1:Az:74:ALA:O	1:Az:75:ILE:HD12	1.52	1.09
1:Az:357:HIS:O	1:Az:359:PRO:HD3	1.51	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:759:ILE:HD13	1:Az:784:VAL:HB	1.34	1.09
2:Ag:118:ARG:NH2	2:Ag:134:THR:CG2	1.84	1.09
2:Ag:150:TRP:CH2	12:AR:33:ARG:HB2	1.88	1.09
2:Ag:282:GLU:CB	2:Ag:283:PRO:HD2	1.72	1.09
4:AK:40:VAL:CG2	4:AK:41:PRO:CD	2.30	1.09
7:AM:91:LEU:HD22	7:AM:104:VAL:HG13	1.33	1.09
11:AL:4:ILE:HD12	11:AL:4:ILE:N	1.60	1.09
13:AP:10:ARG:NH2	13:AP:11:THR:HB	1.66	1.09
13:AP:41:GLN:NE2	13:AP:45:LEU:HG	1.65	1.09
13:AP:108:LYS:O	13:AP:111:MET:HG3	1.51	1.09
15:AB:52:THR:HB	82:CG:264:LYS:NZ	1.64	1.09
21:Ab:73:LEU:HD12	21:Ab:79:PHE:CE2	1.87	1.09
23:AD:132:LYS:CA	23:AD:191:PRO:HG3	1.80	1.09
24:Ae:46:VAL:N	24:Ae:47:PRO:HD2	1.61	1.09
26:AJ:169:ARG:HB3	26:AJ:170:PRO:HD2	1.16	1.09
27:AE:49:ARG:HD3	27:AE:49:ARG:O	1.52	1.09
29:AG:50:VAL:HG11	29:AG:111:LEU:HD13	1.19	1.09
29:AG:129:VAL:O	58:CW:80:ARG:CZ	1.99	1.09
29:AG:176:ILE:CB	29:AG:179:LEU:CD2	2.30	1.09
34:AQ:92:LEU:HD11	34:AQ:96:TYR:CE2	1.85	1.09
39:Cq:28:PHE:CE2	39:Cq:98:ILE:HG21	1.86	1.09
39:Cq:259:PHE:CB	39:Cq:264:LYS:CD	2.30	1.09
40:CK:10:ILE:HG22	40:CK:66:ASN:CA	1.63	1.09
41:CO:190:ASP:CG	41:CO:193:THR:HB	1.76	1.09
42:CL:50:PRO:CD	42:CL:51:ALA:CB	2.29	1.09
42:CL:50:PRO:CB	42:CL:51:ALA:CB	2.30	1.09
42:CL:148:THR:CB	42:CL:150:LEU:HD21	1.81	1.09
46:CN:72:LYS:CE	46:CN:90:ASN:ND2	2.08	1.09
48:CD:104:LEU:CD2	48:CD:247:ILE:HG23	1.82	1.09
49:CQ:85:THR:HG22	49:CQ:104:ARG:HB2	1.24	1.09
49:CQ:154:LYS:CD	49:CQ:163:THR:HG21	1.81	1.09
51:CA:5:ILE:CD1	51:CA:210:PRO:HD3	1.82	1.09
51:CA:248:GLY:O	51:CA:250:LYS:N	1.86	1.09
52:CS:75:VAL:O	52:CS:76:LYS:HE2	1.49	1.09
60:Cr:16:PHE:CD1	60:Cr:28:GLU:OE1	2.05	1.09
60:Cr:51:VAL:CG1	60:Cr:117:ILE:HG13	1.81	1.09
60:Cr:76:SER:C	60:Cr:79:ARG:HE	1.59	1.09
60:Cr:77:TYR:HB3	60:Cr:79:ARG:HE	0.95	1.09
63:CB:395:ASP:CA	63:CB:396:ARG:CB	2.30	1.09
63:CB:397:ILE:HG22	63:CB:398:ALA:N	1.65	1.09
64:CF:197:VAL:HG12	64:CF:198:GLY:H	1.09	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:37:MET:HE3	65:Cc:43:ALA:HA	1.19	1.09
67:Ce:22:ARG:HH11	67:Ce:31:ILE:HG23	0.96	1.09
74:CC:7:LEU:HG	74:CC:8:ILE:H	1.06	1.09
78:Co:72:CYS:HA	78:Co:73:VAL:HG23	1.17	1.09
78:Co:75:PRO:HB2	78:Co:76:ASN:OD1	1.51	1.09
80:CH:34:LEU:HD13	80:CH:150:ASP:OD1	1.52	1.09
81:CE:149:ILE:HD11	81:CE:161:ARG:HB3	1.35	1.09
81:CE:224:LYS:HB3	81:CE:226:ARG:HH12	1.17	1.09
81:CE:242:ILE:CD1	81:CE:246:ARG:HH11	1.63	1.09
82:CG:77:PRO:HG3	82:CG:237:TRP:HZ3	1.15	1.09
82:CG:183:ILE:CG2	82:CG:184:ILE:N	2.07	1.09
1:Az:45:ILE:HG12	1:Az:46:ILE:H	1.18	1.09
1:Az:295:ASP:O	1:Az:299:LYS:HG3	1.49	1.09
1:Az:555:GLU:O	1:Az:559:LYS:HG3	1.53	1.09
1:Az:746:LEU:HD21	1:Az:785:LYS:HD3	1.15	1.09
1:Az:775:GLN:HG2	1:Az:782:PHE:CD2	1.86	1.09
1:Az:791:ASN:O	1:Az:794:PHE:CE1	2.06	1.09
2:Ag:275:ILE:HD12	2:Ag:276:SER:N	1.66	1.09
5:AO:22:ALA:O	5:AO:24:GLY:N	1.86	1.09
10:AN:38:TYR:CE2	10:AN:74:ILE:CG2	2.34	1.09
13:AP:126:VAL:CG1	13:AP:127:LYS:N	2.06	1.09
16:AA:176:TRP:CE3	16:AA:177:MET:SD	2.46	1.09
16:AA:185:MET:CE	17:AV:39:VAL:HG12	1.82	1.09
16:AA:186:ARG:HH11	16:AA:186:ARG:HG2	1.01	1.09
17:AV:11:LEU:HD12	17:AV:12:TYR:HD2	0.93	1.09
21:Ab:12:PRO:O	21:Ab:16:LYS:CG	2.01	1.09
23:AD:70:THR:HG22	23:AD:86:LEU:HD13	1.31	1.09
26:AJ:110:LEU:HD12	26:AJ:130:ILE:CD1	1.74	1.09
29:AG:76:LEU:HD21	29:AG:92:ARG:HG2	1.32	1.09
30:AF:14:THR:CG2	34:AQ:56:LEU:CG	2.10	1.09
31:AH:144:ILE:HD12	32:AW:52:ILE:CG2	1.82	1.09
33:AI:140:LYS:CG	33:AI:141:ARG:H	1.64	1.09
34:AQ:30:GLY:O	34:AQ:31:LEU:HD12	1.52	1.09
34:AQ:85:ARG:CZ	34:AQ:117:ARG:HG2	1.82	1.09
39:Cq:106:LYS:HG3	39:Cq:108:PRO:HD3	1.35	1.09
39:Cq:110:ALA:HB1	39:Cq:182:PRO:HD2	1.18	1.09
40:CK:94:LYS:HB3	40:CK:96:LYS:CE	1.83	1.09
41:CO:16:LEU:HD23	41:CO:41:ILE:HD11	1.11	1.09
46:CN:44:ARG:CD	46:CN:119:TYR:CE1	2.35	1.09
47:CI:103:LEU:CD2	47:CI:103:LEU:H	1.49	1.09
50:CR:4:LEU:CD1	50:CR:33:ALA:HA	1.81	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:17:CYS:SG	50:CR:52:ARG:NH2	2.26	1.09
56:CX:41:ARG:NH1	82:CG:55:VAL:HG11	1.67	1.09
60:Cr:46:ARG:HB3	60:Cr:68:SER:HB3	1.11	1.09
60:Cr:51:VAL:CG1	60:Cr:117:ILE:CG1	2.23	1.09
60:Cr:76:SER:O	60:Cr:77:TYR:HB3	1.41	1.09
66:Cd:57:MET:HG2	66:Cd:90:ARG:NH1	1.67	1.09
74:CC:91:ALA:C	74:CC:92:PHE:CD2	2.29	1.09
77:Cp:27:LYS:HE2	77:Cp:28:LYS:HA	1.10	1.09
80:CH:105:ILE:HG23	80:CH:112:VAL:HA	1.14	1.09
81:CE:242:ILE:HG12	81:CE:246:ARG:HD3	1.32	1.09
82:CG:42:GLY:C	82:CG:43:GLN:HG2	1.62	1.09
1:Az:503:PRO:HA	1:Az:549:ALA:HA	1.27	1.09
4:AK:11:ILE:HG21	4:AK:49:MET:CE	1.71	1.09
4:AK:71:LEU:HD21	4:AK:76:ILE:HD13	1.19	1.09
8:AS:6:PRO:HA	19:AZ:50:PHE:HB2	1.11	1.09
9:Ad:5:GLN:CG	9:Ad:7:TYR:CE2	2.36	1.09
11:AL:151:THR:O	11:AL:153:LYS:HD3	1.53	1.09
12:AR:105:MET:O	12:AR:109:LEU:CG	2.00	1.09
13:AP:44:ARG:HH21	13:AP:84:ILE:HB	1.10	1.09
13:AP:49:LEU:O	13:AP:51:ARG:CA	1.99	1.09
17:AV:81:LYS:HE3	17:AV:81:LYS:N	1.68	1.09
19:AZ:103:HIS:CD2	19:AZ:105:ALA:HB3	1.86	1.09
21:Ab:12:PRO:HD2	21:Ab:13:GLU:H	1.07	1.09
23:AD:2:ALA:HB3	23:AD:3:VAL:HA	1.09	1.09
23:AD:197:LYS:CB	23:AD:198:ILE:CG1	2.30	1.09
24:Ae:45:VAL:C	24:Ae:47:PRO:CD	2.24	1.09
28:AC:117:ARG:HG3	28:AC:118:ALA:H	1.13	1.09
31:AH:93:VAL:HG23	31:AH:94:PHE:H	1.10	1.09
34:AQ:93:VAL:HG13	34:AQ:105:LYS:CE	1.70	1.09
35:Ah:158:ILE:HG23	35:Ah:161:PRO:HG2	1.32	1.09
40:CK:95:GLN:O	40:CK:96:LYS:HD3	1.49	1.09
46:CN:38:ARG:HG2	46:CN:62:TYR:CE2	1.88	1.09
48:CD:20:PHE:CD2	48:CD:30:TYR:CZ	2.41	1.09
49:CQ:103:LEU:HD23	49:CQ:123:PHE:CE2	1.85	1.09
52:CS:7:LEU:N	52:CS:7:LEU:HD22	1.60	1.09
52:CS:111:ARG:HH21	52:CS:111:ARG:CG	1.65	1.09
53:CT:4:THR:HG22	53:CT:9:ARG:HD2	1.32	1.09
56:CX:56:ARG:O	56:CX:57:GLN:HG2	1.52	1.09
56:CX:123:LYS:HZ3	56:CX:139:ARG:HB2	0.93	1.09
61:Ch:91:MET:O	61:Ch:94:ARG:HG2	1.50	1.09
63:CB:47:LEU:HD23	63:CB:166:THR:HG21	1.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Cd:57:MET:CE	66:Cd:88:LEU:HD13	1.81	1.09
66:Cd:60:PRO:HB2	66:Cd:100:ASN:ND2	1.67	1.09
67:Ce:5:ARG:HG3	67:Ce:93:LYS:HB3	1.09	1.09
74:CC:133:LEU:CD2	74:CC:136:LEU:HD11	1.79	1.09
78:Co:65:LYS:HG2	78:Co:85:ILE:O	1.44	1.09
81:CE:239:LYS:HD2	85:A5:4939:C:C5	1.88	1.09
1:Az:197:SER:OG	1:Az:201:GLY:O	1.69	1.08
3:AU:61:LEU:HD23	9:Ad:34:TYR:OH	1.53	1.08
11:AL:12:LYS:NZ	33:AI:194:GLU:CG	2.13	1.08
12:AR:84:TYR:O	16:AA:201:LEU:HD12	1.52	1.08
13:AP:11:THR:O	13:AP:12:PHE:HB2	1.47	1.08
15:AB:137:LEU:CB	15:AB:172:MET:HE1	1.84	1.08
18:AY:122:LYS:HD3	18:AY:123:ALA:H	1.05	1.08
23:AD:176:LEU:HD12	23:AD:176:LEU:H	1.13	1.08
24:Ae:40:ARG:O	24:Ae:45:VAL:HG23	1.33	1.08
24:Ae:40:ARG:C	24:Ae:45:VAL:CG2	2.26	1.08
26:AJ:100:LEU:CD1	26:AJ:104:ASP:OD2	2.01	1.08
27:AE:92:ILE:HB	27:AE:97:GLU:OE1	1.52	1.08
27:AE:208:VAL:CG2	27:AE:225:ILE:CD1	2.28	1.08
28:AC:275:LYS:CG	28:AC:276:THR:H	1.56	1.08
29:AG:16:ILE:CD1	29:AG:45:TRP:CZ2	2.33	1.08
30:AF:41:VAL:CG2	30:AF:42:LYS:H	1.62	1.08
34:AQ:9:SER:CB	34:AQ:26:LYS:CG	2.08	1.08
39:Cq:77:LYS:O	39:Cq:80:PRO:HD3	1.53	1.08
39:Cq:119:CYS:HA	39:Cq:163:THR:HG22	1.35	1.08
40:CK:131:GLU:HG2	40:CK:155:ILE:CD1	1.83	1.08
41:CO:108:ILE:HG22	41:CO:160:ARG:CZ	1.80	1.08
45:Ca:117:LEU:HD12	45:Ca:118:PRO:HD3	1.27	1.08
46:CN:58:GLY:CA	46:CN:139:HIS:NE2	2.10	1.08
48:CD:130:TYR:CD2	48:CD:130:TYR:C	2.30	1.08
49:CQ:19:LYS:O	49:CQ:20:SER:HB2	1.50	1.08
52:CS:74:ARG:O	52:CS:76:LYS:HG3	0.91	1.08
55:CU:48:LYS:HG2	55:CU:52:LYS:HA	1.19	1.08
61:Ch:5:LYS:C	61:Ch:56:ARG:HH22	1.59	1.08
62:Cb:36:ASP:OD1	62:Cb:37:PRO:HD2	1.54	1.08
66:Cd:93:ASN:CB	66:Cd:101:LYS:O	2.01	1.08
67:Ce:5:ARG:HE	67:Ce:5:ARG:CA	1.65	1.08
67:Ce:6:PRO:HD2	67:Ce:93:LYS:CB	1.76	1.08
69:Cg:25:THR:HB	69:Cg:26:PRO:HD2	1.30	1.08
71:Cj:54:LYS:CE	71:Cj:58:THR:HG22	1.82	1.08
72:Ck:31:ASN:HB3	72:Ck:46:VAL:HG13	1.35	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:Ck:60:LEU:O	72:Ck:62:PRO:HD3	1.53	1.08
74:CC:122:TYR:HD1	74:CC:280:PRO:HG3	1.15	1.08
74:CC:124:ILE:CG1	74:CC:237:ILE:HD11	1.75	1.08
78:Co:20:PRO:O	78:Co:73:VAL:HG22	0.92	1.08
79:CJ:20:LEU:HD13	79:CJ:132:VAL:CG2	1.83	1.08
79:CJ:163:MET:HE3	79:CJ:174:ILE:HD13	1.17	1.08
81:CE:83:LYS:HB2	81:CE:84:LYS:CA	1.82	1.08
81:CE:106:VAL:HB	81:CE:108:LYS:N	1.66	1.08
81:CE:215:ALA:HA	81:CE:218:LYS:HE2	1.16	1.08
81:CE:224:LYS:CG	81:CE:226:ARG:HH12	1.64	1.08
82:CG:83:PHE:HZ	82:CG:158:ALA:O	1.34	1.08
82:CG:113:ARG:HH21	82:CG:113:ARG:CG	1.65	1.08
83:Ct:44:PRO:HD2	83:Ct:45:GLY:H	1.09	1.08
5:AO:99:ALA:N	5:AO:133:THR:HG22	1.68	1.08
8:AS:46:ARG:CZ	14:AT:50:GLU:CB	2.30	1.08
14:AT:30:VAL:HG23	14:AT:30:VAL:O	1.53	1.08
14:AT:40:ALA:CB	14:AT:43:LYS:HG2	1.84	1.08
16:AA:154:LEU:HD13	16:AA:154:LEU:O	1.54	1.08
23:AD:2:ALA:CB	23:AD:3:VAL:CA	2.29	1.08
26:AJ:17:ARG:HG3	26:AJ:17:ARG:O	1.41	1.08
26:AJ:89:GLU:HA	26:AJ:92:MET:HB2	1.21	1.08
26:AJ:127:ARG:HH11	26:AJ:127:ARG:CG	1.66	1.08
27:AE:100:ARG:HD3	27:AE:102:ILE:HD11	1.20	1.08
37:BC:17:G:O2'	37:BC:56:G:N2	1.86	1.08
39:Cq:20:LEU:CD1	39:Cq:54:LEU:HD22	1.83	1.08
44:CM:6:PHE:O	44:CM:11:ARG:NE	1.85	1.08
45:Ca:120:GLN:CB	45:Ca:121:PRO:HD3	1.79	1.08
47:CI:106:ALA:CB	47:CI:108:ALA:CB	2.29	1.08
48:CD:137:GLY:O	48:CD:138:GLN:CG	2.01	1.08
48:CD:271:MET:HE1	48:CD:275:GLN:HB3	1.26	1.08
49:CQ:154:LYS:CB	49:CQ:155:ALA:CB	2.30	1.08
52:CS:7:LEU:HD21	52:CS:107:THR:OG1	1.53	1.08
55:CU:21:PHE:HE1	55:CU:80:LYS:CG	1.65	1.08
56:CX:57:GLN:N	56:CX:58:PRO:HD2	1.47	1.08
58:CW:57:ARG:NH2	58:CW:66:GLU:OE2	1.85	1.08
63:CB:189:THR:HG23	63:CB:192:GLU:HB2	1.10	1.08
66:Cd:101:LYS:HB2	66:Cd:102:LEU:HD12	1.28	1.08
66:Cd:116:ASN:C	66:Cd:117:LEU:CD1	2.26	1.08
67:Ce:5:ARG:HG2	67:Ce:93:LYS:HA	1.16	1.08
74:CC:146:GLU:O	74:CC:175:LYS:HG3	0.93	1.08
77:Cp:85:ARG:NH2	77:Cp:86:LEU:HD23	1.65	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:19:THR:OG1	80:CH:26:ILE:CD1	2.00	1.08
80:CH:41:ILE:O	80:CH:42:ASN:CB	1.97	1.08
80:CH:89:ARG:HD3	80:CH:91:LYS:HE3	1.34	1.08
81:CE:68:MET:HA	81:CE:71:ARG:HD2	1.32	1.08
81:CE:242:ILE:HG12	81:CE:246:ARG:CD	1.81	1.08
82:CG:143:VAL:CA	82:CG:146:LEU:HD21	1.84	1.08
1:Az:78:PHE:O	1:Az:79:TYR:HD1	1.34	1.08
1:Az:613:LEU:HD23	1:Az:613:LEU:N	1.65	1.08
5:AO:61:LYS:CE	5:AO:80:ASP:OD2	2.00	1.08
6:AX:67:ARG:O	6:AX:68:LYS:HG3	1.51	1.08
8:AS:137:LYS:HG2	8:AS:138:THR:HG23	1.34	1.08
11:AL:8:ARG:HH11	33:AI:85:ALA:HB1	1.11	1.08
15:AB:209:ASP:OD1	15:AB:211:PHE:HZ	1.37	1.08
24:Ae:45:VAL:CA	24:Ae:47:PRO:HD2	1.83	1.08
26:AJ:61:LEU:CD2	26:AJ:98:LEU:CD1	2.27	1.08
27:AE:99:PHE:CE1	27:AE:113:ARG:CG	2.35	1.08
30:AF:14:THR:CB	34:AQ:56:LEU:HD13	1.82	1.08
31:AH:83:LEU:HD11	31:AH:92:VAL:HB	1.16	1.08
33:AI:139:LYS:HB3	33:AI:145:ILE:CD1	1.82	1.08
33:AI:154:LYS:HG3	33:AI:155:ASN:H	1.15	1.08
39:Cq:233:THR:HA	84:Cu:1:MET:HG3	1.32	1.08
46:CN:28:TRP:HZ3	82:CG:67:ARG:CD	1.65	1.08
46:CN:29:GLN:HA	82:CG:67:ARG:HH21	1.13	1.08
46:CN:80:THR:O	46:CN:82:GLY:N	1.87	1.08
49:CQ:103:LEU:HD23	49:CQ:123:PHE:CD2	1.88	1.08
49:CQ:187:LYS:NZ	49:CQ:188:ASN:HD22	1.51	1.08
51:CA:158:ILE:HG21	51:CA:162:ASN:ND2	1.67	1.08
53:CT:127:GLN:C	53:CT:128:LEU:HD23	1.77	1.08
56:CX:60:TYR:HD2	61:Ch:78:TYR:C	1.62	1.08
56:CX:89:LYS:NZ	56:CX:137:TYR:CD1	2.21	1.08
57:CY:34:LEU:HD21	57:CY:38:LEU:CB	1.82	1.08
61:Ch:101:ASN:O	61:Ch:103:LYS:HE2	1.52	1.08
63:CB:51:ALA:HB3	63:CB:78:ILE:CD1	1.83	1.08
64:CF:161:LYS:HG3	64:CF:209:TRP:HZ3	1.18	1.08
64:CF:200:ARG:NH1	64:CF:203:GLU:OE2	1.86	1.08
65:Cc:13:SER:O	65:Cc:17:ARG:HG3	1.51	1.08
69:Cg:41:ALA:CA	69:Cg:52:ARG:HD2	1.82	1.08
74:CC:5:ARG:CB	74:CC:24:LEU:HG	1.81	1.08
74:CC:168:VAL:HG22	74:CC:224:ILE:CD1	1.83	1.08
74:CC:213:GLU:HA	74:CC:214:ASP:HB3	1.35	1.08
74:CC:219:LYS:HZ2	74:CC:222:ARG:CZ	1.64	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:30:GLU:OE1	77:Cp:33:GLN:NE2	1.84	1.08
78:Co:65:LYS:C	78:Co:66:ILE:CG2	2.21	1.08
78:Co:65:LYS:CE	78:Co:87:ARG:CG	2.31	1.08
79:CJ:20:LEU:HD13	79:CJ:132:VAL:HG22	1.34	1.08
81:CE:56:ARG:CB	81:CE:65:ARG:NH1	2.17	1.08
81:CE:75:ALA:HA	81:CE:76:ALA:HB2	1.28	1.08
82:CG:87:LEU:HD23	82:CG:184:ILE:HG13	1.26	1.08
1:Az:829:SER:OG	1:Az:833:GLN:N	1.86	1.08
2:Ag:5:MET:HE1	2:Ag:312:VAL:HG13	1.25	1.08
2:Ag:275:ILE:HD12	2:Ag:276:SER:H	1.06	1.08
4:AK:16:PHE:CD2	4:AK:79:LEU:HB3	1.88	1.08
4:AK:16:PHE:HE2	4:AK:79:LEU:CB	1.52	1.08
7:AM:124:ILE:HA	7:AM:127:TYR:CD2	1.88	1.08
11:AL:149:ALA:HB3	11:AL:156:GLN:HG2	1.34	1.08
12:AR:122:PRO:CB	12:AR:123:THR:HG23	1.83	1.08
15:AB:63:LYS:O	15:AB:88:THR:O	1.71	1.08
15:AB:137:LEU:CD2	15:AB:215:VAL:HG22	1.83	1.08
19:AZ:62:VAL:HG13	19:AZ:68:ILE:HD13	1.16	1.08
23:AD:218:LEU:HB2	23:AD:220:THR:CG2	1.82	1.08
29:AG:67:VAL:HG23	29:AG:68:LEU:O	1.54	1.08
29:AG:129:VAL:CB	58:CW:80:ARG:HH11	1.67	1.08
30:AF:45:TYR:O	30:AF:47:LYS:HD3	1.44	1.08
30:AF:59:LYS:HD3	30:AF:62:ARG:HD3	1.36	1.08
30:AF:185:SER:HA	30:AF:190:ILE:HG21	1.11	1.08
33:AI:141:ARG:O	33:AI:143:LYS:HE2	1.50	1.08
34:AQ:74:GLY:O	34:AQ:80:GLN:NE2	1.87	1.08
39:Cq:198:ILE:HB	83:Cs:42:PHE:HZ	0.91	1.08
41:CO:27:VAL:CG1	41:CO:98:ALA:HB1	1.82	1.08
42:CL:27:ASN:C	42:CL:29:PRO:CD	2.26	1.08
44:CM:104:MET:HE1	44:CM:112:VAL:HG21	1.25	1.08
46:CN:7:ILE:HB	46:CN:46:ASP:OD2	0.92	1.08
46:CN:68:ARG:HB3	46:CN:126:THR:O	1.53	1.08
47:CI:28:ASP:HB3	47:CI:32:ARG:NH2	1.67	1.08
47:CI:101:LYS:HB2	47:CI:101:LYS:NZ	1.64	1.08
48:CD:268:ARG:HG3	48:CD:268:ARG:NH1	1.44	1.08
49:CQ:16:LYS:HD2	49:CQ:16:LYS:H	1.17	1.08
58:CW:23:ARG:NH1	58:CW:29:PHE:CE2	2.11	1.08
60:Cr:51:VAL:HG11	60:Cr:117:ILE:HG13	1.17	1.08
62:Cb:24:PRO:O	62:Cb:25:ARG:HB2	1.28	1.08
63:CB:87:VAL:HG23	63:CB:163:ILE:HG23	1.18	1.08
74:CC:193:LYS:HG3	74:CC:196:MET:HE3	1.30	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:315:LYS:HG2	74:CC:316:LYS:H	1.08	1.08
77:Cp:50:ARG:CZ	77:Cp:54:ILE:CD1	2.26	1.08
79:CJ:26:VAL:CB	79:CJ:33:LEU:CD2	2.30	1.08
82:CG:152:ALA:HA	82:CG:205:THR:HG23	1.34	1.08
83:Cs:41:PRO:HD2	83:Cs:42:PHE:H	1.13	1.08
83:Ct:16:LEU:HD21	83:Ct:31:LEU:HD11	1.32	1.08
1:Az:113:SER:HA	1:Az:499:PHE:HB2	1.08	1.08
1:Az:275:LYS:HE3	1:Az:275:LYS:C	1.78	1.08
5:AO:88:LEU:CD1	15:AB:25:PHE:CZ	2.36	1.08
5:AO:133:THR:O	15:AB:107:ARG:NH2	1.86	1.08
9:Ad:5:GLN:HG2	9:Ad:7:TYR:CE2	1.88	1.08
9:Ad:36:LEU:CD1	23:AD:12:VAL:CG1	1.97	1.08
11:AL:149:ALA:CB	11:AL:156:GLN:HB3	1.79	1.08
12:AR:84:TYR:O	16:AA:201:LEU:CD1	2.00	1.08
13:AP:53:GLN:CD	13:AP:80:LEU:HD13	1.79	1.08
14:AT:84:ARG:HH21	14:AT:84:ARG:CG	1.67	1.08
21:Ab:33:MET:CE	21:Ab:79:PHE:HB3	1.84	1.08
22:Ac:47:LYS:HZ1	30:AF:141:VAL:CG1	1.67	1.08
23:AD:47:GLU:HG2	23:AD:85:GLU:CG	1.82	1.08
23:AD:123:LEU:HD21	23:AD:154:ASP:HB3	1.29	1.08
23:AD:201:LYS:HA	23:AD:201:LYS:HE2	1.35	1.08
26:AJ:17:ARG:CG	26:AJ:18:ARG:CG	2.30	1.08
27:AE:38:LEU:HD12	27:AE:38:LEU:O	1.53	1.08
30:AF:167:LYS:HD3	30:AF:171:GLU:CB	1.83	1.08
31:AH:9:VAL:HG12	31:AH:44:ASN:OD1	1.53	1.08
34:AQ:109:LYS:HG3	34:AQ:113:ILE:HD12	1.23	1.08
38:Cz:28:PHE:CB	38:Cz:28:PHE:O	2.00	1.08
39:Cq:28:PHE:CE2	39:Cq:98:ILE:CG2	2.36	1.08
40:CK:131:GLU:CG	40:CK:155:ILE:CD1	2.32	1.08
42:CL:61:CYS:CB	42:CL:66:TYR:HB3	1.83	1.08
42:CL:126:LEU:HD22	42:CL:136:LYS:O	1.53	1.08
48:CD:48:LYS:HE3	48:CD:145:TYR:CE2	1.89	1.08
50:CR:24:LEU:HD11	50:CR:32:ILE:HG21	1.08	1.08
58:CW:87:LEU:O	58:CW:90:ILE:N	1.85	1.08
60:Cr:29:PRO:O	60:Cr:30:ASN:HB2	1.46	1.08
60:Cr:78:VAL:HB	60:Cr:81:THR:CB	1.84	1.08
64:CF:152:GLU:OE1	74:CC:319:LEU:HD11	1.51	1.08
65:Cc:28:VAL:O	65:Cc:94:LEU:HD12	1.52	1.08
70:Ci:33:LEU:CB	70:Ci:38:LYS:CE	2.22	1.08
74:CC:46:LYS:HB3	74:CC:49:ARG:HH11	1.09	1.08
74:CC:76:ILE:HG23	74:CC:77:PRO:HD3	1.09	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:230:LEU:CD1	74:CC:239:LYS:HD2	1.83	1.08
78:Co:25:GLN:CD	78:Co:91:PHE:CZ	2.32	1.08
78:Co:61:LYS:HG3	78:Co:87:ARG:NH2	1.68	1.08
81:CE:212:LEU:CD1	81:CE:216:TYR:CD2	2.32	1.08
82:CG:143:VAL:HA	82:CG:146:LEU:HD21	1.08	1.08
82:CG:162:ASP:HB2	82:CG:163:PRO:HD3	1.12	1.08
83:Cs:16:LEU:HD21	83:Cs:31:LEU:HD11	1.36	1.08
1:Az:616:ASP:CG	1:Az:621:GLU:HB2	1.78	1.07
1:Az:752:PRO:O	1:Az:754:GLN:HG3	1.54	1.07
2:Ag:87:LEU:HD12	2:Ag:101:PHE:HB2	1.14	1.07
6:AX:52:LEU:HD12	6:AX:53:GLU:N	1.68	1.07
8:AS:124:ARG:HD3	8:AS:130:ARG:O	1.51	1.07
9:Ad:27:ARG:HH11	9:Ad:27:ARG:HB2	0.97	1.07
10:AN:132:LYS:HA	10:AN:132:LYS:CE	1.69	1.07
11:AL:146:THR:O	11:AL:147:LYS:HB3	1.28	1.07
13:AP:62:LYS:O	13:AP:65:LYS:CG	2.01	1.07
19:AZ:48:VAL:HG22	19:AZ:80:ARG:CD	1.82	1.07
23:AD:112:GLY:N	23:AD:113:LEU:HD12	1.69	1.07
23:AD:132:LYS:N	23:AD:191:PRO:HD3	1.69	1.07
26:AJ:130:ILE:HG12	26:AJ:135:ILE:HD13	1.36	1.07
30:AF:14:THR:CB	34:AQ:56:LEU:HB3	1.84	1.07
30:AF:41:VAL:HG22	30:AF:42:LYS:HD3	1.25	1.07
33:AI:141:ARG:HB2	33:AI:144:LYS:HB2	1.09	1.07
34:AQ:19:ALA:HB2	34:AQ:74:GLY:C	1.78	1.07
39:Cq:26:LYS:HE2	39:Cq:94:ASP:C	1.78	1.07
39:Cq:45:MET:CE	39:Cq:48:ARG:HG2	1.85	1.07
39:Cq:61:MET:CG	39:Cq:82:ILE:CG2	2.32	1.07
45:Ca:89:ASN:CB	45:Ca:91:ALA:N	2.16	1.07
47:CI:104:SER:HA	47:CI:112:GLN:HG3	1.19	1.07
49:CQ:110:ARG:HE	49:CQ:120:ILE:HD11	0.92	1.07
51:CA:209:HIS:HE2	51:CA:235:VAL:HG11	1.18	1.07
51:CA:253:GLN:HB3	51:CA:254:GLU:HA	1.33	1.07
52:CS:19:THR:CB	52:CS:20:PRO:CD	2.29	1.07
52:CS:75:VAL:HG13	52:CS:76:LYS:N	1.42	1.07
53:CT:36:LYS:HD3	53:CT:37:GLY:N	1.69	1.07
56:CX:117:TYR:CB	56:CX:119:ILE:CG2	2.31	1.07
56:CX:123:LYS:NZ	56:CX:139:ARG:HB2	1.69	1.07
58:CW:80:ARG:HG3	58:CW:80:ARG:HH21	1.03	1.07
58:CW:87:LEU:HA	58:CW:90:ILE:CG1	1.84	1.07
60:Cr:42:GLY:HA3	60:Cr:43:LEU:HD23	1.28	1.07
60:Cr:51:VAL:HG12	60:Cr:117:ILE:HD12	1.35	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:70:GLN:O	60:Cr:71:ARG:HG2	1.51	1.07
60:Cr:126:VAL:CG1	60:Cr:127:LYS:H	1.62	1.07
64:CF:30:ILE:CG2	64:CF:34:ARG:NH2	2.16	1.07
69:Cg:29:ARG:HD3	69:Cg:30:ILE:N	1.67	1.07
71:Cj:54:LYS:HE2	71:Cj:58:THR:HG21	1.29	1.07
74:CC:147:VAL:CG2	74:CC:175:LYS:HB3	1.82	1.07
74:CC:296:PRO:CD	74:CC:297:GLU:OE1	2.01	1.07
78:Co:68:LEU:HB2	78:Co:83:LEU:HD12	1.21	1.07
1:Az:3:ASN:O	1:Az:46:ILE:HG13	1.53	1.07
1:Az:113:SER:HB2	1:Az:499:PHE:HB2	1.36	1.07
1:Az:396:MET:HE1	1:Az:472:LEU:HD11	1.21	1.07
1:Az:524:LEU:HD11	1:Az:536:CYS:HB2	1.23	1.07
1:Az:562:GLU:CA	1:Az:570:ILE:HD11	1.84	1.07
2:Ag:261:LEU:C	2:Ag:264:LYS:HE3	1.79	1.07
3:AU:64:THR:HG22	3:AU:79:ARG:HG2	1.09	1.07
4:AK:34:GLU:O	4:AK:35:LEU:HB2	1.31	1.07
5:AO:35:ALA:CB	5:AO:112:ALA:HB2	1.84	1.07
6:AX:142:ARG:HH11	6:AX:142:ARG:CG	1.65	1.07
8:AS:94:LYS:HB3	8:AS:95:TYR:O	1.54	1.07
12:AR:20:TYR:CZ	12:AR:38:ILE:HB	1.88	1.07
14:AT:111:LYS:HB3	14:AT:126:GLN:NE2	1.68	1.07
15:AB:31:TYR:CD1	15:AB:94:LYS:HA	1.89	1.07
18:AY:61:ARG:HH21	18:AY:61:ARG:HG3	0.91	1.07
27:AE:159:THR:HG23	27:AE:227:VAL:HG22	1.30	1.07
30:AF:42:LYS:C	30:AF:42:LYS:HE3	1.78	1.07
38:Cz:58:THR:HA	38:Cz:153:SER:HB2	1.34	1.07
38:Cz:204:LEU:HD13	38:Cz:216:LEU:HD11	1.08	1.07
40:CK:10:ILE:CB	40:CK:67:ARG:N	2.11	1.07
40:CK:131:GLU:HG2	40:CK:152:ILE:HG23	1.37	1.07
41:CO:192:TYR:HB3	44:CM:122:ILE:HD13	1.30	1.07
44:CM:60:PHE:CE2	44:CM:85:LYS:HB3	1.79	1.07
49:CQ:158:THR:HB	49:CQ:188:ASN:C	1.79	1.07
52:CS:164:LYS:CE	52:CS:165:PRO:CD	2.30	1.07
54:CP:2:VAL:CG1	54:CP:3:ARG:H	1.58	1.07
56:CX:41:ARG:HH11	82:CG:55:VAL:HG11	1.09	1.07
56:CX:81:LEU:CG	56:CX:99:ILE:HG13	1.84	1.07
57:CY:22:PRO:HD2	57:CY:25:ILE:HD12	1.35	1.07
58:CW:23:ARG:NH1	58:CW:23:ARG:HB2	1.67	1.07
60:Cr:78:VAL:HG21	60:Cr:82:ILE:HG23	1.16	1.07
63:CB:92:TYR:CD2	63:CB:99:LEU:HD13	1.87	1.07
64:CF:95:ILE:CD1	64:CF:96:ARG:HG2	1.84	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Ci:23:LYS:HB3	70:Ci:24:PRO:HD3	1.25	1.07
70:Ci:25:ARG:O	70:Ci:28:ARG:HG2	1.52	1.07
73:Cl:2:SER:HB3	73:Cl:5:LYS:CE	1.85	1.07
74:CC:7:LEU:H	74:CC:24:LEU:HD21	0.91	1.07
74:CC:63:SER:HB2	74:CC:80:ARG:HH11	0.96	1.07
79:CJ:18:ARG:NH2	79:CJ:139:PHE:CE1	2.23	1.07
81:CE:149:ILE:HA	81:CE:163:VAL:CG1	1.84	1.07
81:CE:149:ILE:HA	81:CE:163:VAL:HG13	1.14	1.07
82:CG:32:PHE:C	82:CG:33:GLU:HG2	1.77	1.07
82:CG:104:PRO:O	82:CG:105:GLU:HG3	1.53	1.07
1:Az:498:LYS:HG3	1:Az:498:LYS:O	1.45	1.07
2:Ag:12:LYS:HG2	2:Ag:13:GLY:N	1.63	1.07
5:AO:35:ALA:HB2	5:AO:112:ALA:HB2	1.33	1.07
6:AX:142:ARG:HH11	6:AX:142:ARG:HB2	1.19	1.07
10:AN:12:SER:O	10:AN:13:GLN:CG	2.02	1.07
11:AL:8:ARG:HH11	33:AI:85:ALA:CB	1.66	1.07
12:AR:19:LYS:HD3	23:AD:212:GLU:HG2	1.30	1.07
12:AR:100:PRO:HA	12:AR:103:LYS:HB2	1.13	1.07
13:AP:53:GLN:CG	13:AP:80:LEU:HD13	1.74	1.07
17:AV:81:LYS:HZ2	17:AV:81:LYS:HB2	0.97	1.07
18:AY:63:HIS:HB3	18:AY:64:PHE:CE1	1.88	1.07
21:Ab:2:PRO:HA	21:Ab:3:LEU:HD23	1.24	1.07
26:AJ:138:ARG:HH11	26:AJ:156:HIS:CG	1.71	1.07
29:AG:76:LEU:HD22	29:AG:92:ARG:CG	1.83	1.07
29:AG:121:ILE:CG2	29:AG:122:PRO:CD	2.33	1.07
30:AF:14:THR:HG23	34:AQ:56:LEU:HB3	1.28	1.07
30:AF:46:ALA:O	30:AF:47:LYS:HD2	1.54	1.07
31:AH:191:GLU:O	31:AH:192:PHE:CG	2.08	1.07
33:AI:154:LYS:CA	33:AI:154:LYS:HE2	1.66	1.07
39:Cq:26:LYS:CG	39:Cq:27:CYS:H	1.68	1.07
39:Cq:130:LEU:HD22	39:Cq:133:GLU:OE1	1.51	1.07
40:CK:160:VAL:C	40:CK:163:PRO:HD3	1.73	1.07
41:CO:127:VAL:CG1	52:CS:158:VAL:HG23	1.83	1.07
42:CL:9:VAL:C	42:CL:10:LEU:CD2	2.28	1.07
43:CV:41:SER:O	43:CV:61:VAL:HG13	1.52	1.07
43:CV:93:GLY:CA	63:CB:73:VAL:HG21	1.82	1.07
45:Ca:89:ASN:CG	45:Ca:91:ALA:H	1.63	1.07
48:CD:261:VAL:HG12	48:CD:262:LYS:CA	1.83	1.07
49:CQ:150:ARG:HB3	49:CQ:164:LYS:HB2	1.37	1.07
58:CW:57:ARG:HG2	58:CW:57:ARG:HH11	1.17	1.07
58:CW:76:VAL:HG12	58:CW:77:LYS:N	1.61	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:87:ARG:HG2	60:Cr:88:ALA:N	1.48	1.07
62:Cb:22:LYS:HB3	62:Cb:22:LYS:NZ	1.57	1.07
67:Ce:24:GLN:NE2	67:Ce:27:ARG:HD3	1.67	1.07
69:Cg:37:LYS:HD3	69:Cg:60:ARG:HH22	1.05	1.07
80:CH:47:LEU:HD12	80:CH:55:LEU:HD23	1.36	1.07
1:Az:37:ASP:OD2	1:Az:54:THR:HB	1.51	1.07
4:AK:83:LEU:HB3	4:AK:85:LEU:HD23	1.20	1.07
5:AO:56:VAL:HG12	5:AO:81:VAL:HG22	1.31	1.07
5:AO:142:ARG:NH1	20:Aa:27:ALA:CB	2.17	1.07
6:AX:2:GLY:O	6:AX:3:LYS:CG	2.01	1.07
6:AX:11:ARG:CB	11:AL:103:GLU:OE1	2.03	1.07
6:AX:14:ARG:HA	11:AL:99:TYR:CZ	1.89	1.07
6:AX:14:ARG:HA	11:AL:99:TYR:OH	0.90	1.07
8:AS:14:ARG:HH12	8:AS:17:ASN:CA	1.68	1.07
11:AL:4:ILE:H	11:AL:4:ILE:CD1	1.68	1.07
16:AA:66:VAL:HG22	16:AA:186:ARG:HD3	1.14	1.07
19:AZ:103:HIS:CD2	19:AZ:105:ALA:H	1.72	1.07
27:AE:129:ILE:HG13	27:AE:139:LEU:CD2	1.70	1.07
28:AC:66:LEU:HD13	28:AC:93:ILE:HD13	1.30	1.07
28:AC:108:LYS:CE	28:AC:233:LEU:HD21	1.84	1.07
28:AC:169:TYR:CE1	28:AC:177:PRO:HG3	1.89	1.07
30:AF:25:THR:HG21	30:AF:42:LYS:CD	1.78	1.07
31:AH:23:ILE:HD13	31:AH:27:LEU:HD23	1.34	1.07
32:AW:104:LEU:CD1	32:AW:106:THR:HG23	1.83	1.07
38:Cz:120:ILE:HG13	38:Cz:124:LEU:HD12	1.26	1.07
40:CK:56:LEU:CG	40:CK:91:ASP:OD2	2.02	1.07
41:CO:195:VAL:HG21	44:CM:118:MET:HG2	1.36	1.07
43:CV:9:SER:OG	43:CV:128:LEU:CG	2.01	1.07
45:Ca:47:LYS:C	49:CQ:156:PRO:HG2	1.79	1.07
45:Ca:125:LYS:HE2	45:Ca:147:VAL:HG21	1.28	1.07
54:CP:125:MET:HB2	54:CP:141:SER:OG	1.53	1.07
58:CW:27:LYS:CG	58:CW:28:VAL:N	2.15	1.07
59:CZ:78:ASN:O	59:CZ:79:HIS:CB	1.96	1.07
60:Cr:81:THR:C	60:Cr:82:ILE:HD12	1.79	1.07
61:Ch:87:LYS:HA	71:Cj:73:ARG:NH1	1.67	1.07
71:Cj:84:PRO:HB2	71:Cj:86:PRO:HD2	1.30	1.07
74:CC:148:PRO:HG3	74:CC:152:LEU:HD11	1.36	1.07
74:CC:349:LEU:CD1	74:CC:353:LYS:HE2	1.85	1.07
77:Cp:27:LYS:HE3	77:Cp:31:ILE:HD12	1.13	1.07
80:CH:20:LEU:HD22	80:CH:45:LEU:HD13	1.35	1.07
81:CE:285:LYS:O	81:CE:287:VAL:HG12	0.91	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:77:PRO:CG	82:CG:237:TRP:CZ3	2.38	1.07
8:AS:11:HIS:CD2	8:AS:23:ARG:NH2	2.23	1.07
11:AL:19:ASN:HD21	33:AI:69:SER:HB3	1.11	1.07
11:AL:95:TYR:HA	11:AL:102:PHE:HB3	1.15	1.07
12:AR:20:TYR:OH	12:AR:38:ILE:CB	2.02	1.07
12:AR:122:PRO:HA	12:AR:123:THR:HG23	1.13	1.07
14:AT:31:PRO:CB	14:AT:33:TRP:CE2	2.36	1.07
18:AY:19:GLN:OE1	18:AY:85:ASN:ND2	1.88	1.07
25:Af:89:LYS:HG3	25:Af:89:LYS:O	1.43	1.07
27:AE:129:ILE:CG1	27:AE:139:LEU:HD23	1.73	1.07
28:AC:66:LEU:O	28:AC:66:LEU:HD22	1.54	1.07
34:AQ:30:GLY:HA2	34:AQ:66:VAL:O	1.54	1.07
40:CK:123:ARG:HD2	40:CK:129:ILE:HD12	1.08	1.07
44:CM:12:VAL:CG2	44:CM:58:THR:OG1	2.03	1.07
46:CN:115:VAL:CG2	46:CN:134:LEU:HD21	1.85	1.07
48:CD:41:LYS:HG2	53:CT:93:ILE:HD11	1.37	1.07
49:CQ:25:LEU:CD1	49:CQ:28:LEU:HD21	1.83	1.07
49:CQ:178:ARG:HD3	49:CQ:185:GLY:HA3	1.33	1.07
53:CT:9:ARG:O	53:CT:55:LYS:NZ	1.87	1.07
53:CT:135:PRO:O	53:CT:136:ARG:CG	2.02	1.07
55:CU:84:LYS:CE	55:CU:102:VAL:HB	1.83	1.07
56:CX:119:ILE:HD12	56:CX:119:ILE:C	1.76	1.07
63:CB:189:THR:HG21	63:CB:192:GLU:OE1	1.49	1.07
65:Cc:57:LYS:O	65:Cc:61:GLU:HG3	1.42	1.07
66:Cd:42:ALA:HB3	66:Cd:73:TRP:CZ2	1.90	1.07
69:Cg:47:GLY:O	69:Cg:48:VAL:HG22	1.53	1.07
72:Ck:23:VAL:HG23	72:Ck:64:LEU:HD11	1.36	1.07
74:CC:28:PHE:CE1	74:CC:132:ALA:N	2.22	1.07
74:CC:296:PRO:HD2	74:CC:297:GLU:H	0.96	1.07
75:Cm:94:MET:HE3	75:Cm:122:ARG:C	1.79	1.07
81:CE:56:ARG:HD2	81:CE:65:ARG:CZ	1.84	1.07
81:CE:154:THR:HG23	85:A5:4942:C:OP1	1.55	1.07
82:CG:113:ARG:HD2	82:CG:113:ARG:O	1.52	1.07
82:CG:160:ASP:OD1	82:CG:187:LYS:CD	2.03	1.07
82:CG:160:ASP:CG	82:CG:187:LYS:CG	2.27	1.07
1:Az:60:ARG:HH11	1:Az:60:ARG:CG	1.66	1.06
1:Az:284:LYS:HD3	1:Az:284:LYS:N	1.70	1.06
2:Ag:12:LYS:CD	2:Ag:13:GLY:CA	2.22	1.06
2:Ag:284:PRO:O	2:Ag:302:TYR:HD1	1.35	1.06
5:AO:48:SER:N	15:AB:67:PHE:CE1	2.22	1.06
10:AN:28:LEU:HD11	10:AN:58:HIS:NE2	1.69	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:53:ILE:CD1	21:Ab:52:THR:CG2	2.33	1.06
12:AR:85:VAL:HG22	16:AA:201:LEU:CB	1.73	1.06
16:AA:145:ILE:HA	16:AA:159:ILE:CG2	1.84	1.06
18:AY:29:HIS:ND1	18:AY:67:GLY:C	2.13	1.06
25:Af:98:VAL:HG12	25:Af:99:LYS:N	1.62	1.06
25:Af:135:HIS:CG	25:Af:138:ARG:HG2	1.89	1.06
26:AJ:72:PHE:CG	27:AE:248:ILE:HD11	1.79	1.06
26:AJ:89:GLU:O	26:AJ:92:MET:HB2	1.51	1.06
26:AJ:134:HIS:O	26:AJ:135:ILE:HG23	1.54	1.06
26:AJ:170:PRO:HA	26:AJ:174:LYS:NZ	1.70	1.06
29:AG:50:VAL:CG1	29:AG:111:LEU:HD22	1.84	1.06
29:AG:142:ARG:HD3	29:AG:147:LEU:CB	1.84	1.06
31:AH:191:GLU:O	31:AH:192:PHE:CD1	2.09	1.06
32:AW:26:LEU:HD12	32:AW:26:LEU:O	1.53	1.06
34:AQ:8:GLN:HG2	34:AQ:99:TYR:CE1	1.84	1.06
34:AQ:114:GLN:HG3	34:AQ:115:TYR:H	1.20	1.06
39:Cq:26:LYS:NZ	39:Cq:91:THR:O	1.88	1.06
39:Cq:39:GLN:HE21	39:Cq:107:VAL:HG23	0.94	1.06
39:Cq:182:PRO:HG2	39:Cq:183:PHE:CD2	1.88	1.06
48:CD:146:LEU:HD21	48:CD:163:LEU:HD13	1.09	1.06
51:CA:94:ALA:HB3	51:CA:102:LEU:CD2	1.83	1.06
51:CA:118:GLU:HG2	51:CA:125:LYS:HZ2	0.99	1.06
52:CS:18:PRO:O	52:CS:19:THR:HG22	1.54	1.06
53:CT:147:GLU:HB3	53:CT:148:PRO:HD3	1.32	1.06
54:CP:6:LEU:HD21	54:CP:116:HIS:NE2	1.43	1.06
54:CP:26:PHE:CA	54:CP:144:CYS:SG	2.42	1.06
55:CU:48:LYS:CG	55:CU:52:LYS:CA	2.33	1.06
55:CU:80:LYS:HB3	55:CU:110:TYR:OH	1.55	1.06
58:CW:33:ASN:O	58:CW:37:GLU:CG	2.01	1.06
59:CZ:10:VAL:O	59:CZ:83:THR:CG2	2.04	1.06
60:Cr:46:ARG:HG2	60:Cr:68:SER:HA	1.32	1.06
60:Cr:64:ILE:CG1	60:Cr:81:THR:CG2	2.33	1.06
60:Cr:78:VAL:HG23	60:Cr:82:ILE:HG23	1.07	1.06
68:Cf:53:ALA:C	68:Cf:54:LYS:HG2	1.80	1.06
69:Cg:42:PRO:HB2	69:Cg:53:LEU:HD13	1.36	1.06
69:Cg:57:ARG:HH11	69:Cg:57:ARG:CG	1.65	1.06
73:Cl:2:SER:HB3	73:Cl:5:LYS:HE2	1.07	1.06
74:CC:84:THR:O	74:CC:85:HIS:HB3	1.29	1.06
74:CC:124:ILE:HD11	74:CC:237:ILE:HD12	1.30	1.06
80:CH:41:ILE:HG23	80:CH:42:ASN:H	1.08	1.06
80:CH:93:ARG:HD2	80:CH:143:GLU:CG	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:39:PHE:CZ	82:CG:47:PRO:CG	2.37	1.06
82:CG:241:VAL:O	82:CG:242:LEU:CB	1.92	1.06
1:Az:24:VAL:HG23	1:Az:32:LYS:HE3	1.32	1.06
1:Az:72:SER:OG	1:Az:104:ASP:CB	2.01	1.06
1:Az:480:VAL:O	1:Az:481:LYS:HB3	1.49	1.06
2:Ag:7:LEU:HD12	2:Ag:310:TRP:NE1	1.68	1.06
6:AX:7:LEU:O	11:AL:101:ARG:HB3	1.55	1.06
6:AX:94:ILE:HG12	6:AX:125:VAL:HG21	1.32	1.06
13:AP:68:PRO:CB	13:AP:69:PRO:HD3	1.84	1.06
14:AT:29:LYS:HA	14:AT:29:LYS:HE3	1.38	1.06
14:AT:46:ALA:HB1	14:AT:47:PRO:HD2	1.08	1.06
17:AV:23:ILE:HD11	28:AC:249:SER:O	1.55	1.06
17:AV:24:ILE:CD1	17:AV:25:GLY:N	2.18	1.06
29:AG:50:VAL:HG11	29:AG:111:LEU:CD1	1.84	1.06
29:AG:176:ILE:HG21	29:AG:179:LEU:HD22	1.12	1.06
31:AH:10:LYS:CE	31:AH:17:ASP:H	1.68	1.06
35:Ah:151:PHE:CB	35:Ah:153:VAL:CB	2.33	1.06
35:Ah:151:PHE:CA	35:Ah:153:VAL:HB	1.85	1.06
36:B2:1822:A:H2'	36:B2:1823:A:C8	1.90	1.06
39:Cq:191:GLN:HE22	39:Cq:198:ILE:CG2	1.68	1.06
39:Cq:222:VAL:HG13	84:Cu:4:VAL:CG1	1.85	1.06
39:Cq:242:ILE:HD13	83:Ct:63:VAL:HG22	1.31	1.06
40:CK:10:ILE:HG22	40:CK:66:ASN:HA	1.14	1.06
40:CK:48:LYS:O	40:CK:52:ASP:CG	1.97	1.06
41:CO:7:LEU:CD1	52:CS:167:PHE:CE2	2.35	1.06
44:CM:19:PRO:HD2	44:CM:20:HIS:H	1.17	1.06
46:CN:115:VAL:HG22	46:CN:134:LEU:HD21	1.08	1.06
49:CQ:119:LYS:HE3	49:CQ:121:LEU:HD21	1.37	1.06
50:CR:99:MET:HE1	50:CR:127:VAL:HG12	1.31	1.06
51:CA:32:VAL:CG2	51:CA:163:ARG:NH1	1.79	1.06
51:CA:242:ARG:HH12	51:CA:247:ARG:NH2	1.51	1.06
52:CS:153:PRO:O	52:CS:155:PRO:HD3	1.54	1.06
53:CT:82:GLY:CA	62:Cb:16:TRP:CE3	2.38	1.06
56:CX:87:MET:HA	56:CX:90:ILE:HD12	1.10	1.06
58:CW:2:LYS:HB3	58:CW:2:LYS:NZ	1.62	1.06
60:Cr:125:MET:O	60:Cr:126:VAL:CG2	2.01	1.06
63:CB:58:ARG:HA	63:CB:366:LYS:HG3	1.36	1.06
63:CB:111:SER:O	63:CB:114:CYS:N	1.87	1.06
63:CB:378:ARG:HH11	63:CB:378:ARG:CG	1.67	1.06
74:CC:5:ARG:HG3	74:CC:24:LEU:HD12	1.17	1.06
80:CH:47:LEU:HD13	80:CH:55:LEU:HD21	1.08	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:184:ILE:HG23	82:CG:185:LYS:H	0.98	1.06
83:Ct:40:GLU:OE1	83:Ct:43:TRP:CD1	2.07	1.06
1:Az:829:SER:HB2	1:Az:832:SER:H	1.15	1.06
6:AX:126:ALA:HB3	6:AX:128:VAL:CB	1.84	1.06
8:AS:124:ARG:NH1	13:AP:123:TYR:CZ	2.11	1.06
10:AN:16:LEU:HD11	10:AN:62:GLN:HE22	1.13	1.06
13:AP:39:ALA:HA	13:AP:42:ARG:NE	1.71	1.06
13:AP:53:GLN:HG2	13:AP:80:LEU:HD11	1.26	1.06
16:AA:11:LYS:HG2	16:AA:13:GLU:CG	1.84	1.06
16:AA:127:PRO:HB2	16:AA:153:PRO:HG2	1.38	1.06
17:AV:23:ILE:HD12	28:AC:249:SER:HA	1.38	1.06
18:AY:36:PRO:HG2	18:AY:39:GLU:HG3	1.36	1.06
26:AJ:50:LEU:HD12	26:AJ:102:ILE:CD1	1.85	1.06
26:AJ:66:LYS:HA	26:AJ:71:LEU:HD11	1.37	1.06
26:AJ:89:GLU:N	26:AJ:92:MET:SD	2.29	1.06
28:AC:192:LEU:CD2	28:AC:227:ARG:HG3	1.84	1.06
29:AG:176:ILE:HG22	29:AG:179:LEU:HB3	1.25	1.06
31:AH:15:LYS:HB3	31:AH:16:PRO:CD	1.84	1.06
31:AH:143:ARG:HE	32:AW:53:ILE:HG23	1.10	1.06
35:Ah:152:SER:HB3	35:Ah:153:VAL:C	1.80	1.06
41:CO:177:LEU:HB3	44:CM:130:LEU:HD23	1.33	1.06
44:CM:79:LYS:HD2	44:CM:79:LYS:O	1.53	1.06
48:CD:223:PHE:CD1	48:CD:226:TYR:CD2	2.42	1.06
49:CQ:41:SER:O	49:CQ:42:THR:C	1.97	1.06
50:CR:133:LYS:HD2	50:CR:137:ILE:HB	1.35	1.06
52:CS:147:ASP:HA	52:CS:148:SER:HB2	1.37	1.06
53:CT:7:LYS:HE2	53:CT:54:HIS:CD2	1.85	1.06
53:CT:68:THR:OG1	53:CT:71:ALA:HB3	0.89	1.06
53:CT:82:GLY:HA3	62:Cb:16:TRP:CZ3	1.90	1.06
60:Cr:42:GLY:C	60:Cr:43:LEU:CD2	2.27	1.06
60:Cr:55:ALA:N	60:Cr:56:ASP:HB3	1.69	1.06
61:Ch:3:LYS:C	61:Ch:4:ILE:HD13	1.79	1.06
61:Ch:6:ALA:N	61:Ch:56:ARG:HH22	1.51	1.06
63:CB:34:LYS:HD2	63:CB:34:LYS:N	1.63	1.06
63:CB:107:ALA:HA	63:CB:201:LEU:HD23	1.35	1.06
63:CB:282:LYS:HD2	63:CB:282:LYS:N	1.66	1.06
63:CB:297:LYS:O	63:CB:300:LYS:HE3	1.54	1.06
67:Ce:30:LYS:O	67:Ce:30:LYS:HG2	1.42	1.06
67:Ce:38:PRO:CG	67:Ce:55:MET:HE1	1.86	1.06
69:Cg:76:ARG:NH1	69:Cg:84:ALA:HB1	1.68	1.06
72:Ck:24:LYS:HE2	72:Ck:67:LYS:CD	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:14:LYS:CD	74:CC:15:GLY:N	2.17	1.06
74:CC:147:VAL:HG22	74:CC:175:LYS:HB3	1.08	1.06
74:CC:168:VAL:CG2	74:CC:224:ILE:HD11	1.85	1.06
78:Co:65:LYS:CB	78:Co:66:ILE:CD1	2.32	1.06
78:Co:103:VAL:HG22	79:CJ:64:ARG:O	1.54	1.06
80:CH:1:MET:C	80:CH:2:LYS:HG2	1.79	1.06
80:CH:7:ASN:HB3	80:CH:58:ASP:OD1	1.47	1.06
80:CH:86:LEU:HD21	80:CH:189:GLN:HB2	1.10	1.06
80:CH:93:ARG:HE	80:CH:143:GLU:CG	1.67	1.06
82:CG:85:GLN:O	82:CG:183:ILE:HD13	1.55	1.06
1:Az:82:SER:O	1:Az:86:LEU:HD13	1.56	1.06
1:Az:167:LEU:O	80:CH:100:PRO:HG2	1.53	1.06
1:Az:827:ASN:HD22	1:Az:827:ASN:C	1.62	1.06
3:Au:48:LEU:HD23	3:Au:48:LEU:N	1.65	1.06
3:Au:61:LEU:CD2	9:Ad:34:TYR:CE1	2.38	1.06
8:AS:39:ARG:CD	14:AT:38:LYS:CE	2.33	1.06
18:AY:10:ARG:HE	18:AY:24:VAL:CG1	1.68	1.06
18:AY:13:MET:CE	18:AY:14:THR:O	2.02	1.06
22:Ac:21:THR:HG22	22:Ac:22:GLY:H	0.95	1.06
24:Ae:40:ARG:C	24:Ae:45:VAL:HG21	1.80	1.06
28:AC:113:GLN:HB2	28:AC:121:ARG:O	1.55	1.06
33:AI:136:ILE:HG23	33:AI:139:LYS:HE3	1.14	1.06
35:Ah:152:SER:CB	35:Ah:153:VAL:C	2.29	1.06
39:Cq:66:ARG:HD2	39:Cq:69:LEU:HD21	1.12	1.06
39:Cq:119:CYS:HA	39:Cq:163:THR:CG2	1.85	1.06
40:CK:56:LEU:HD12	40:CK:91:ASP:CG	1.81	1.06
40:CK:117:ARG:HE	40:CK:117:ARG:CA	1.67	1.06
41:CO:119:VAL:HG12	41:CO:124:LEU:HD11	1.09	1.06
43:CV:39:ILE:HG23	43:CV:61:VAL:HG11	1.30	1.06
43:CV:110:GLY:HA3	43:CV:129:TRP:HZ3	1.03	1.06
44:CM:35:ARG:NH2	52:CS:108:GLN:NE2	2.04	1.06
46:CN:44:ARG:HG3	46:CN:119:TYR:CE1	1.91	1.06
46:CN:138:PHE:HA	46:CN:143:ARG:CZ	1.85	1.06
48:CD:115:MET:HE3	48:CD:139:PRO:CB	1.85	1.06
50:CR:10:LEU:HB3	50:CR:41:ILE:HD13	1.29	1.06
51:CA:118:GLU:CB	51:CA:125:LYS:HZ2	1.69	1.06
52:CS:2:LYS:HZ2	52:CS:43:ARG:CG	1.63	1.06
53:CT:150:LEU:C	53:CT:150:LEU:CD2	2.28	1.06
55:CU:39:PHE:CD2	55:CU:70:ILE:CD1	2.37	1.06
58:CW:12:LYS:O	58:CW:32:LEU:CD2	2.03	1.06
61:Ch:73:TYR:HB3	61:Ch:79:LYS:HE3	1.13	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:CF:41:MET:HE3	85:A5:2121:C:H5'	1.31	1.06
64:CF:132:MET:HA	64:CF:132:MET:HE2	1.34	1.06
65:Cc:29:LEU:HD22	65:Cc:94:LEU:HD13	1.36	1.06
66:Cd:23:ARG:HD3	66:Cd:25:TYR:OH	1.29	1.06
74:CC:144:ILE:HG23	74:CC:147:VAL:HG21	1.11	1.06
74:CC:147:VAL:HG13	74:CC:152:LEU:CD2	1.80	1.06
74:CC:283:LYS:HB2	74:CC:283:LYS:NZ	1.70	1.06
77:Cp:50:ARG:NE	77:Cp:54:ILE:CD1	2.16	1.06
79:CJ:26:VAL:CG1	79:CJ:33:LEU:CD2	2.34	1.06
79:CJ:135:GLY:CA	79:CJ:139:PHE:HE2	1.68	1.06
80:CH:50:LYS:CE	80:CH:50:LYS:H	1.69	1.06
80:CH:106:GLN:HB3	80:CH:107:GLU:HG3	1.11	1.06
81:CE:45:SER:CB	81:CE:49:VAL:HG11	1.73	1.06
82:CG:104:PRO:C	82:CG:105:GLU:CG	2.28	1.06
83:Cs:41:PRO:C	83:Cs:44:PRO:CD	2.27	1.06
83:Ct:21:VAL:HG12	83:Ct:27:LYS:HD3	1.32	1.06
85:A5:958:G:C1'	85:A5:958:G:O4'	1.69	1.06
1:Az:777:ALA:O	1:Az:780:PRO:CD	2.01	1.06
4:AK:15:LEU:HD13	4:AK:21:MET:HE2	1.07	1.06
8:AS:120:HIS:CD2	8:AS:124:ARG:NE	2.23	1.06
9:Ad:5:GLN:CG	9:Ad:7:TYR:HE2	1.66	1.06
10:AN:132:LYS:CA	10:AN:132:LYS:HE3	1.70	1.06
11:AL:17:PHE:CE1	11:AL:18:GLN:O	2.08	1.06
11:AL:147:LYS:CD	11:AL:148:ALA:CA	2.30	1.06
13:AP:4:VAL:N	13:AP:10:ARG:CG	2.19	1.06
13:AP:83:MET:HE3	13:AP:116:LEU:HD11	1.07	1.06
13:AP:108:LYS:H	13:AP:111:MET:HE3	1.18	1.06
15:AB:113:MET:SD	15:AB:211:PHE:CE2	2.49	1.06
16:AA:125:THR:O	16:AA:147:LEU:CB	2.02	1.06
18:AY:61:ARG:HD2	18:AY:61:ARG:N	1.71	1.06
19:AZ:64:ASN:O	19:AZ:111:ARG:NH2	1.89	1.06
23:AD:177:LEU:HD23	23:AD:182:LEU:CD2	1.85	1.06
23:AD:218:LEU:CG	23:AD:220:THR:HG21	1.80	1.06
29:AG:63:MET:HE1	29:AG:106:LEU:HD11	1.16	1.06
29:AG:121:ILE:HG23	29:AG:122:PRO:HD3	1.09	1.06
30:AF:42:LYS:C	30:AF:44:LYS:N	1.88	1.06
31:AH:37:LYS:HE2	31:AH:41:ARG:HH11	1.17	1.06
34:AQ:76:GLY:O	34:AQ:80:GLN:HG3	1.56	1.06
34:AQ:112:LEU:HD22	34:AQ:119:LEU:CD1	1.85	1.06
38:Cz:67:VAL:HG13	38:Cz:111:LEU:HD13	1.29	1.06
40:CK:12:VAL:HB	40:CK:65:GLN:OE1	1.54	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:75:GLY:O	42:CL:102:ARG:NH2	1.88	1.06
46:CN:192:TRP:HA	46:CN:195:ARG:HD2	1.38	1.06
48:CD:199:ILE:HG22	48:CD:200:MET:CE	1.86	1.06
48:CD:261:VAL:CB	48:CD:262:LYS:HA	1.86	1.06
49:CQ:14:ARG:HG2	49:CQ:14:ARG:O	1.43	1.06
51:CA:82:ILE:HD11	51:CA:99:GLY:HA2	1.33	1.06
52:CS:19:THR:HB	52:CS:20:PRO:HD2	1.07	1.06
54:CP:48:LEU:CD1	54:CP:91:LEU:HD11	1.83	1.06
55:CU:80:LYS:CB	55:CU:110:TYR:OH	2.01	1.06
56:CX:76:ILE:HG21	56:CX:112:ALA:HB2	1.38	1.06
59:CZ:16:GLY:O	59:CZ:19:SER:N	1.87	1.06
59:CZ:47:ASP:OD2	59:CZ:69:LYS:CD	2.04	1.06
60:Cr:64:ILE:HG13	60:Cr:81:THR:HG23	1.35	1.06
62:Cb:55:LYS:HZ2	62:Cb:59:ALA:HB2	0.98	1.06
69:Cg:66:ARG:HH11	69:Cg:66:ARG:HB2	0.95	1.06
74:CC:341:LEU:CD1	81:CE:52:ARG:HH22	1.62	1.06
79:CJ:53:ALA:HB2	79:CJ:68:ILE:CD1	1.86	1.06
81:CE:223:ARG:HD2	81:CE:223:ARG:N	1.51	1.06
82:CG:27:VAL:O	82:CG:31:LEU:HD21	1.52	1.06
1:Az:240:GLY:O	1:Az:243:GLN:HG3	1.54	1.05
1:Az:275:LYS:HE2	1:Az:276:SER:HA	1.36	1.05
2:Ag:150:TRP:HH2	12:AR:33:ARG:HB2	1.16	1.05
6:AX:95:GLU:CG	6:AX:140:ARG:HH22	1.69	1.05
11:AL:94:HIS:CB	11:AL:105:ARG:HD2	1.85	1.05
13:AP:70:MET:SD	79:CJ:93:GLU:OE1	2.14	1.05
14:AT:77:LYS:CG	14:AT:92:PHE:CZ	2.34	1.05
16:AA:30:LEU:HD21	16:AA:35:GLU:HG3	1.06	1.05
18:AY:36:PRO:CD	18:AY:39:GLU:OE1	2.04	1.05
21:Ab:34:ASP:HB3	21:Ab:43:ILE:HG21	1.37	1.05
22:Ac:55:VAL:HB	30:AF:34:SER:HB2	1.36	1.05
23:AD:201:LYS:O	23:AD:203:PRO:CD	2.04	1.05
24:Ae:31:ARG:HB3	24:Ae:31:ARG:CZ	1.75	1.05
26:AJ:131:ARG:HD2	26:AJ:143:ASN:OD1	1.56	1.05
30:AF:42:LYS:C	30:AF:42:LYS:CE	2.29	1.05
31:AH:144:ILE:HB	32:AW:52:ILE:HG22	1.09	1.05
31:AH:164:ASN:OD1	31:AH:167:GLU:OE2	1.73	1.05
35:Ah:291:ASP:OD1	35:Ah:294:LYS:HE3	1.50	1.05
39:Cq:66:ARG:CD	39:Cq:69:LEU:HD21	1.57	1.05
39:Cq:259:PHE:HB2	39:Cq:264:LYS:HD2	1.09	1.05
40:CK:48:LYS:C	40:CK:52:ASP:OD1	1.99	1.05
43:CV:57:VAL:HG12	43:CV:125:CYS:SG	1.95	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:129:GLU:CD	48:CD:177:THR:CG2	2.29	1.05
48:CD:190:PHE:HZ	48:CD:195:HIS:CB	1.69	1.05
50:CR:4:LEU:HD11	50:CR:33:ALA:HB2	1.24	1.05
50:CR:4:LEU:HD13	50:CR:33:ALA:HA	1.38	1.05
50:CR:24:LEU:CD1	50:CR:32:ILE:HG21	1.85	1.05
52:CS:2:LYS:NZ	52:CS:43:ARG:HG3	1.65	1.05
52:CS:2:LYS:HZ2	52:CS:43:ARG:HG3	0.92	1.05
52:CS:98:ARG:HD2	52:CS:145:PHE:HB3	1.36	1.05
53:CT:39:ILE:HD12	53:CT:102:ARG:HD3	1.09	1.05
54:CP:6:LEU:HD23	54:CP:116:HIS:NE2	1.39	1.05
58:CW:46:PRO:HB2	58:CW:54:LEU:HD23	1.37	1.05
66:Cd:88:LEU:HD12	66:Cd:88:LEU:O	1.55	1.05
67:Ce:21:ILE:HD13	67:Ce:21:ILE:N	1.61	1.05
72:Ck:22:SER:HA	72:Ck:65:ALA:HB3	1.38	1.05
74:CC:262:GLU:C	74:CC:264:TYR:H	1.64	1.05
77:Cp:84:ARG:HD2	77:Cp:84:ARG:C	1.78	1.05
79:CJ:26:VAL:HG11	79:CJ:33:LEU:CD2	1.85	1.05
81:CE:53:GLY:C	81:CE:63:TYR:HB2	1.81	1.05
81:CE:147:GLY:O	81:CE:201:ILE:HG22	1.56	1.05
82:CG:28:VAL:CA	82:CG:31:LEU:HD21	1.82	1.05
83:Ct:12:SER:N	84:Cv:9:LEU:HD21	1.71	1.05
4:AK:60:GLU:OE2	4:AK:67:PHE:HD1	1.38	1.05
5:AO:125:LYS:NZ	20:Aa:57:SER:C	2.14	1.05
7:AM:69:LEU:HD13	7:AM:76:LEU:HD23	1.33	1.05
13:AP:10:ARG:HH21	13:AP:11:THR:CG2	1.69	1.05
15:AB:179:ASN:CG	15:AB:183:GLU:OE1	1.99	1.05
16:AA:30:LEU:HD11	16:AA:38:ILE:HD11	1.35	1.05
16:AA:43:SER:C	16:AA:44:ASP:OD1	1.99	1.05
16:AA:85:ARG:HH21	16:AA:201:LEU:HD12	1.21	1.05
16:AA:177:MET:HE1	16:AA:180:ARG:CZ	1.85	1.05
18:AY:78:SER:HB2	18:AY:81:TYR:CD2	1.90	1.05
21:Ab:8:LEU:HD21	32:AW:62:VAL:HB	1.07	1.05
25:Af:108:VAL:HG13	25:Af:113:LYS:O	1.54	1.05
26:AJ:89:GLU:HA	26:AJ:92:MET:SD	1.95	1.05
29:AG:145:PHE:HB3	29:AG:147:LEU:HD11	1.30	1.05
32:AW:90:GLN:HA	32:AW:102:ILE:HD11	1.37	1.05
34:AQ:54:PRO:HG3	34:AQ:88:ILE:HD11	1.37	1.05
34:AQ:85:ARG:HH22	34:AQ:117:ARG:HG2	1.19	1.05
35:Ah:151:PHE:CB	35:Ah:152:SER:C	2.30	1.05
40:CK:49:ALA:CA	40:CK:52:ASP:OD2	2.03	1.05
40:CK:102:GLY:HA2	40:CK:139:VAL:HG12	1.38	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:61:CYS:HB2	42:CL:66:TYR:HB3	1.09	1.05
43:CV:57:VAL:CG1	43:CV:125:CYS:SG	2.44	1.05
49:CQ:187:LYS:HE2	49:CQ:188:ASN:H	1.17	1.05
50:CR:112:SER:O	50:CR:113:LYS:HB2	1.51	1.05
51:CA:104:VAL:HA	51:CA:107:MET:HE2	1.11	1.05
51:CA:174:ARG:CA	77:Cp:69:TRP:CH2	2.38	1.05
52:CS:87:ARG:HH11	52:CS:87:ARG:HG2	0.89	1.05
54:CP:24:VAL:HG12	54:CP:90:PHE:CE2	1.89	1.05
56:CX:41:ARG:HD2	82:CG:55:VAL:HG21	1.36	1.05
59:CZ:30:ASP:OD2	59:CZ:31:ASP:HB2	1.56	1.05
65:Cc:59:GLU:CD	69:Cg:92:LYS:CE	2.20	1.05
66:Cd:75:LYS:HB2	66:Cd:79:ASN:HB2	1.35	1.05
69:Cg:57:ARG:NE	69:Cg:59:VAL:HG21	1.71	1.05
74:CC:5:ARG:HG2	74:CC:24:LEU:CB	1.85	1.05
74:CC:273:LEU:HD12	74:CC:273:LEU:C	1.76	1.05
78:Co:66:ILE:HD13	78:Co:66:ILE:N	1.70	1.05
79:CJ:135:GLY:CA	79:CJ:139:PHE:CE2	2.40	1.05
81:CE:113:PRO:HD2	81:CE:114:ARG:H	1.11	1.05
81:CE:121:VAL:HG22	81:CE:122:PRO:HD3	1.39	1.05
81:CE:223:ARG:O	81:CE:224:LYS:CE	2.05	1.05
1:Az:4:PHE:CD2	1:Az:5:THR:CG2	2.39	1.05
1:Az:752:PRO:HD2	1:Az:755:VAL:HG21	1.38	1.05
4:AK:11:ILE:HG23	4:AK:49:MET:CE	1.84	1.05
10:AN:125:LEU:HD13	10:AN:129:TYR:HE2	1.11	1.05
11:AL:10:TYR:CE2	11:AL:12:LYS:HE3	1.92	1.05
12:AR:91:LEU:HD12	12:AR:91:LEU:H	1.10	1.05
13:AP:8:LYS:O	13:AP:11:THR:HG22	1.54	1.05
15:AB:113:MET:CE	15:AB:211:PHE:CZ	2.40	1.05
18:AY:7:ILE:CD1	18:AY:43:LYS:HB3	1.86	1.05
18:AY:51:THR:HB	18:AY:52:PRO:HD3	1.34	1.05
19:AZ:80:ARG:HG2	19:AZ:82:SER:OG	1.56	1.05
22:Ac:15:THR:HG21	22:Ac:33:GLU:HG2	1.38	1.05
26:AJ:72:PHE:CE1	27:AE:248:ILE:CG1	2.39	1.05
26:AJ:91:LYS:HA	26:AJ:96:TYR:HB2	1.29	1.05
27:AE:21:ASP:OD2	27:AE:24:THR:HG21	1.52	1.05
30:AF:45:TYR:O	30:AF:47:LYS:HE2	1.56	1.05
30:AF:76:MET:HE1	30:AF:169:ILE:HG21	1.32	1.05
34:AQ:58:LEU:CD2	34:AQ:111:ILE:HD13	1.84	1.05
34:AQ:58:LEU:CD1	34:AQ:108:ILE:HG23	1.86	1.05
39:Cq:110:ALA:CB	39:Cq:181:SER:CA	2.11	1.05
39:Cq:241:ILE:O	39:Cq:245:TYR:CD2	2.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:94:LYS:CD	40:CK:96:LYS:HE3	1.85	1.05
41:CO:12:ARG:HD2	41:CO:37:ARG:NH1	0.72	1.05
42:CL:19:GLN:HB2	42:CL:20:ARG:NH1	1.67	1.05
44:CM:107:PHE:HE1	81:CE:270:TYR:HB2	1.13	1.05
45:Ca:52:TYR:CD2	45:Ca:52:TYR:C	2.31	1.05
46:CN:116:LEU:CD1	46:CN:151:ILE:HD13	1.86	1.05
46:CN:197:THR:C	46:CN:198:LEU:CD2	2.29	1.05
47:CI:59:GLN:HB3	47:CI:126:VAL:HG11	1.39	1.05
47:CI:177:ASN:HB3	47:CI:180:GLU:OE1	1.53	1.05
47:CI:193:ASP:OD2	47:CI:198:LYS:HG3	1.50	1.05
48:CD:79:TYR:HB2	48:CD:81:HIS:CE1	1.89	1.05
49:CQ:154:LYS:CE	49:CQ:156:PRO:HD3	1.86	1.05
51:CA:143:THR:HA	51:CA:144:LYS:HG2	1.12	1.05
52:CS:29:ARG:O	53:CT:150:LEU:HG	1.57	1.05
54:CP:48:LEU:HD13	54:CP:91:LEU:HD11	1.10	1.05
54:CP:71:ALA:HA	54:CP:74:LYS:HE3	1.38	1.05
56:CX:76:ILE:HD12	56:CX:76:ILE:O	1.57	1.05
59:CZ:105:ALA:O	59:CZ:108:ARG:HG3	1.56	1.05
59:CZ:115:LYS:NZ	59:CZ:119:GLU:OE2	1.89	1.05
60:Cr:54:ALA:C	60:Cr:56:ASP:HA	1.82	1.05
63:CB:219:VAL:HG11	63:CB:345:LEU:HD21	1.32	1.05
63:CB:354:GLN:OE1	63:CB:354:GLN:HA	1.47	1.05
65:Cc:12:GLU:CB	65:Cc:13:SER:HA	1.77	1.05
74:CC:230:LEU:HD11	74:CC:239:LYS:HD2	1.36	1.05
77:Cp:92:GLN:OXT	77:Cp:92:GLN:CG	2.01	1.05
79:CJ:134:LEU:C	79:CJ:157:ILE:CD1	2.28	1.05
80:CH:113:GLU:CD	80:CH:123:ILE:HD11	1.80	1.05
83:Cs:44:PRO:HD2	83:Cs:45:GLY:H	1.14	1.05
85:A5:1359:G:O4'	85:A5:1359:G:C1'	1.63	1.05
1:Az:206:ASP:O	1:Az:212:VAL:HG23	1.56	1.05
1:Az:571:LYS:CE	1:Az:572:LYS:H	1.69	1.05
2:Ag:176:VAL:HB	2:Ag:186:THR:HG22	1.36	1.05
3:AU:50:VAL:HG21	3:AU:52:GLY:HA2	1.05	1.05
4:AK:66:HIS:HE1	23:AD:76:ARG:CD	1.63	1.05
4:AK:88:GLU:CD	35:Ah:282:GLU:CA	2.29	1.05
8:AS:16:LEU:O	8:AS:17:ASN:CG	2.00	1.05
9:Ad:22:ARG:HH22	23:AD:16:ILE:HG21	1.14	1.05
15:AB:113:MET:CE	15:AB:209:ASP:CG	2.29	1.05
16:AA:39:TYR:HB2	16:AA:50:ASN:ND2	1.70	1.05
16:AA:120:ARG:CD	28:AC:266:TYR:HE2	1.68	1.05
17:AV:42:VAL:O	17:AV:43:THR:HG23	1.55	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Aa:28:ARG:HG2	20:Aa:29:CYS:H	1.16	1.05
22:Ac:48:GLY:HA2	30:AF:145:ARG:HG2	1.39	1.05
23:AD:2:ALA:CB	23:AD:3:VAL:C	2.30	1.05
26:AJ:39:ASN:OD1	26:AJ:42:GLU:OE2	1.73	1.05
27:AE:70:ILE:HG12	27:AE:92:ILE:HD13	1.37	1.05
28:AC:91:SER:O	28:AC:94:ILE:HG23	1.54	1.05
29:AG:41:LEU:CD2	29:AG:45:TRP:HZ3	1.37	1.05
29:AG:50:VAL:HG12	29:AG:111:LEU:HD22	1.31	1.05
31:AH:83:LEU:HD22	31:AH:92:VAL:HG11	1.09	1.05
31:AH:93:VAL:CG2	31:AH:94:PHE:N	2.13	1.05
33:AI:142:SER:HB2	33:AI:143:LYS:NZ	1.72	1.05
39:Cq:12:ASN:C	39:Cq:16:LYS:HE3	1.79	1.05
44:CM:107:PHE:CE1	81:CE:270:TYR:CB	2.36	1.05
46:CN:116:LEU:HD13	46:CN:151:ILE:HD13	1.38	1.05
49:CQ:25:LEU:HD12	49:CQ:28:LEU:HD21	1.09	1.05
52:CS:154:LEU:HD13	52:CS:157:ARG:HD2	1.38	1.05
53:CT:122:LYS:HB3	53:CT:124:THR:OG1	1.54	1.05
56:CX:76:ILE:HG21	56:CX:112:ALA:CB	1.85	1.05
56:CX:87:MET:HA	56:CX:90:ILE:HD11	1.39	1.05
60:Cr:42:GLY:C	60:Cr:43:LEU:CG	2.28	1.05
61:Ch:67:GLU:OE1	61:Ch:70:ARG:HD2	1.56	1.05
61:Ch:76:LYS:O	61:Ch:77:LYS:HB2	1.54	1.05
65:Cc:74:TYR:CD2	65:Cc:81:LEU:HD21	1.91	1.05
71:Cj:88:ARG:HH11	71:Cj:88:ARG:HG2	0.93	1.05
74:CC:122:TYR:HD1	74:CC:280:PRO:CG	1.67	1.05
74:CC:133:LEU:HD21	74:CC:136:LEU:CD1	1.87	1.05
81:CE:71:ARG:C	81:CE:72:LYS:HG2	1.76	1.05
81:CE:233:PHE:HB3	81:CE:235:THR:OG1	1.55	1.05
82:CG:121:LYS:CD	82:CG:121:LYS:C	2.30	1.05
82:CG:146:LEU:HD12	82:CG:147:VAL:N	1.68	1.05
1:Az:60:ARG:HG2	1:Az:60:ARG:NH1	1.49	1.05
2:Ag:42:MET:HG3	2:Ag:92:LEU:HD11	1.09	1.05
2:Ag:172:LYS:CE	2:Ag:192:THR:CG2	2.35	1.05
2:Ag:201:SER:HB2	2:Ag:202:PRO:CD	1.86	1.05
5:AO:88:LEU:HD13	15:AB:25:PHE:CD2	1.90	1.05
5:AO:131:ASP:HB2	20:Aa:67:LEU:HD21	1.12	1.05
5:AO:131:ASP:HB2	20:Aa:67:LEU:CD2	1.87	1.05
8:AS:120:HIS:CD2	8:AS:124:ARG:HE	1.73	1.05
8:AS:123:LEU:CD1	13:AP:121:ILE:HG21	1.86	1.05
13:AP:82:ASP:OD2	36:B2:1619:A:O2'	1.75	1.05
14:AT:46:ALA:CB	14:AT:47:PRO:HD2	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ac:11:LEU:HD13	22:Ac:35:MET:HE2	1.39	1.05
27:AE:152:PRO:HD2	29:AG:212:LEU:CD2	1.85	1.05
31:AH:10:LYS:HE3	31:AH:17:ASP:N	1.72	1.05
39:Cq:248:VAL:HG13	84:Cv:4:VAL:HG12	1.09	1.05
40:CK:117:ARG:HE	40:CK:117:ARG:N	1.53	1.05
41:CO:121:PRO:HD2	41:CO:122:ALA:H	1.19	1.05
44:CM:12:VAL:HG13	44:CM:60:PHE:C	1.81	1.05
45:Ca:47:LYS:CE	45:Ca:48:TYR:CE1	2.40	1.05
45:Ca:119:LYS:O	45:Ca:140:VAL:HG12	1.54	1.05
48:CD:57:ASN:CA	48:CD:58:ARG:CD	2.29	1.05
49:CQ:66:MET:SD	49:CQ:100:VAL:CG2	2.45	1.05
51:CA:143:THR:HA	51:CA:144:LYS:CB	1.84	1.05
55:CU:91:LEU:CD2	55:CU:96:LEU:HB2	1.86	1.05
59:CZ:47:ASP:OD2	59:CZ:69:LYS:HD3	1.56	1.05
65:Cc:44:LYS:CG	65:Cc:97:ILE:O	2.05	1.05
69:Cg:47:GLY:C	69:Cg:48:VAL:CG2	2.30	1.05
1:Az:236:PHE:CZ	1:Az:273:PHE:CZ	2.27	1.04
1:Az:340:MET:HE2	1:Az:340:MET:HA	1.34	1.04
1:Az:427:VAL:O	1:Az:427:VAL:HG12	1.54	1.04
1:Az:855:LEU:C	1:Az:855:LEU:CD2	2.30	1.04
4:AK:14:LEU:HD22	4:AK:35:LEU:HD22	1.09	1.04
8:AS:61:GLU:O	8:AS:64:VAL:CG2	2.05	1.04
8:AS:120:HIS:CE1	8:AS:124:ARG:NH2	2.25	1.04
9:Ad:36:LEU:HD12	23:AD:12:VAL:HG11	1.36	1.04
15:AB:19:LYS:O	15:AB:21:VAL:CG1	2.05	1.04
17:AV:40:ASP:CB	17:AV:47:ASN:ND2	2.20	1.04
23:AD:157:MET:CE	23:AD:187:LYS:CD	2.31	1.04
25:Af:140:TYR:OH	25:Af:146:LEU:CB	2.05	1.04
26:AJ:21:GLU:O	26:AJ:23:SER:N	1.88	1.04
30:AF:154:LEU:HD12	30:AF:155:CYS:N	1.71	1.04
33:AI:140:LYS:HG3	33:AI:141:ARG:H	1.16	1.04
33:AI:154:LYS:CE	33:AI:154:LYS:C	2.29	1.04
39:Cq:12:ASN:O	39:Cq:16:LYS:HD2	1.57	1.04
39:Cq:198:ILE:CA	83:Cs:42:PHE:HE1	1.70	1.04
40:CK:38:SER:HB2	40:CK:39:PRO:HD3	1.07	1.04
45:Ca:47:LYS:HE2	45:Ca:48:TYR:CZ	1.90	1.04
46:CN:6:TYR:CZ	70:Ci:40:VAL:HG22	1.91	1.04
47:CI:72:ALA:O	47:CI:76:MET:HG3	1.54	1.04
59:CZ:57:MET:SD	59:CZ:58:GLY:N	2.30	1.04
60:Cr:73:PRO:CD	60:Cr:74:ALA:H	1.71	1.04
60:Cr:101:LYS:O	60:Cr:101:LYS:HG2	1.53	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:74:LYS:HD2	61:Ch:74:LYS:C	1.80	1.04
61:Ch:87:LYS:C	71:Cj:73:ARG:HH22	1.64	1.04
67:Ce:5:ARG:NH2	67:Ce:93:LYS:NZ	2.04	1.04
67:Ce:6:PRO:N	67:Ce:93:LYS:HE2	1.70	1.04
74:CC:313:VAL:C	74:CC:314:LEU:CD2	2.28	1.04
79:CJ:90:ARG:NH2	79:CJ:108:GLY:CA	2.20	1.04
81:CE:51:VAL:CG1	81:CE:52:ARG:HA	1.86	1.04
81:CE:106:VAL:CB	81:CE:107:VAL:CA	2.29	1.04
82:CG:162:ASP:CB	82:CG:163:PRO:CD	2.35	1.04
83:Cs:11:TYR:CA	84:Cu:9:LEU:HD21	1.87	1.04
1:Az:512:LYS:CD	1:Az:569:PRO:CB	2.29	1.04
1:Az:739:ARG:CA	1:Az:824:PRO:HD3	1.87	1.04
6:AX:100:VAL:HG12	6:AX:125:VAL:HG22	1.36	1.04
6:AX:105:PHE:CE2	6:AX:119:ARG:CA	2.36	1.04
10:AN:38:TYR:HE2	10:AN:74:ILE:HG22	1.21	1.04
12:AR:15:VAL:HG12	23:AD:210:ILE:HD13	1.33	1.04
12:AR:122:PRO:HA	12:AR:123:THR:CG2	1.86	1.04
13:AP:41:GLN:HG2	13:AP:84:ILE:CG2	1.57	1.04
13:AP:41:GLN:HG3	13:AP:84:ILE:CG2	1.65	1.04
14:AT:31:PRO:HB3	14:AT:33:TRP:CE2	1.91	1.04
15:AB:66:VAL:HG21	15:AB:87:ILE:HG22	1.34	1.04
16:AA:11:LYS:CG	16:AA:13:GLU:CG	2.35	1.04
18:AY:29:HIS:CE1	18:AY:67:GLY:CA	2.39	1.04
19:AZ:44:LEU:C	19:AZ:44:LEU:CD1	2.30	1.04
23:AD:18:LYS:NZ	23:AD:37:VAL:HG23	1.71	1.04
23:AD:176:LEU:HD12	23:AD:176:LEU:N	1.68	1.04
26:AJ:88:ASP:O	26:AJ:91:LYS:HB2	1.55	1.04
27:AE:49:ARG:C	27:AE:49:ARG:CD	2.30	1.04
29:AG:74:ARG:HD3	29:AG:94:ARG:HD2	1.36	1.04
32:AW:128:PHE:CE1	32:AW:130:PHE:CE2	2.45	1.04
33:AI:48:VAL:HG22	33:AI:52:ASN:O	1.57	1.04
34:AQ:8:GLN:HG3	34:AQ:99:TYR:CE1	1.76	1.04
34:AQ:42:ILE:HD13	34:AQ:51:LEU:HD22	1.33	1.04
39:Cq:148:SER:OG	39:Cq:153:GLU:CD	2.00	1.04
39:Cq:220:ARG:HH12	39:Cq:223:ALA:CB	1.70	1.04
40:CK:56:LEU:HB3	40:CK:91:ASP:CG	1.83	1.04
40:CK:94:LYS:CA	40:CK:96:LYS:HD2	1.87	1.04
42:CL:149:GLN:C	42:CL:150:LEU:HD23	1.82	1.04
45:Ca:87:ARG:O	45:Ca:91:ALA:CB	2.04	1.04
45:Ca:93:ASN:O	45:Ca:94:LYS:HB3	1.54	1.04
47:CI:38:ARG:CG	47:CI:83:ASP:HB2	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:47:PRO:HB3	47:CI:171:TRP:CZ3	1.91	1.04
49:CQ:110:ARG:NE	49:CQ:120:ILE:HD13	1.72	1.04
53:CT:16:SER:O	53:CT:18:PRO:HD3	1.57	1.04
55:CU:59:GLY:C	55:CU:61:VAL:HG22	1.82	1.04
56:CX:39:LYS:C	56:CX:39:LYS:CD	2.30	1.04
57:CY:55:VAL:CG1	57:CY:104:VAL:HG13	1.82	1.04
64:CF:67:THR:OG1	64:CF:71:MET:CE	2.06	1.04
74:CC:22:VAL:CG2	74:CC:258:ARG:HE	1.55	1.04
74:CC:296:PRO:CD	74:CC:297:GLU:H	1.69	1.04
74:CC:315:LYS:HG2	74:CC:316:LYS:N	1.65	1.04
81:CE:215:ALA:CA	81:CE:218:LYS:HE2	1.86	1.04
82:CG:183:ILE:HG23	82:CG:184:ILE:N	1.51	1.04
84:Cu:23:ILE:CG2	84:Cu:39:LEU:CD2	2.34	1.04
84:Cu:23:ILE:HG21	84:Cu:39:LEU:HD22	1.34	1.04
1:Az:524:LEU:HD21	1:Az:536:CYS:HB3	1.38	1.04
1:Az:694:GLU:CG	1:Az:844:LEU:CD1	2.36	1.04
12:AR:5:ARG:O	12:AR:10:LYS:CE	2.05	1.04
14:AT:111:LYS:CB	14:AT:126:GLN:NE2	2.21	1.04
17:AV:24:ILE:CD1	17:AV:24:ILE:C	2.29	1.04
22:Ac:5:ARG:O	22:Ac:6:VAL:HG23	1.57	1.04
23:AD:112:GLY:C	23:AD:113:LEU:CD1	2.29	1.04
28:AC:164:PRO:HB2	28:AC:248:TYR:CD2	1.93	1.04
29:AG:70:HIS:HB2	29:AG:103:ASP:OD2	1.55	1.04
29:AG:130:PRO:CA	58:CW:81:ALA:HB3	1.86	1.04
33:AI:139:LYS:CB	33:AI:145:ILE:CD1	2.34	1.04
38:Cz:147:LYS:HA	38:Cz:147:LYS:HE2	1.36	1.04
39:Cq:245:TYR:CE1	83:Ct:14:LEU:HD22	1.92	1.04
40:CK:125:LEU:HD12	40:CK:163:PRO:HB3	1.35	1.04
41:CO:16:LEU:HD23	41:CO:41:ILE:CG1	1.86	1.04
41:CO:82:ARG:HA	41:CO:85:ARG:CD	1.87	1.04
41:CO:177:LEU:HD23	44:CM:130:LEU:HD21	1.38	1.04
41:CO:181:ALA:HB1	44:CM:126:GLU:HG2	1.35	1.04
42:CL:21:ARG:HG2	46:CN:196:ASN:O	1.54	1.04
45:Ca:73:VAL:HG21	45:Ca:108:TYR:CZ	1.91	1.04
49:CQ:124:ASP:OD2	74:CC:284:MET:HG2	1.55	1.04
54:CP:4:TYR:OH	54:CP:17:SER:O	1.71	1.04
57:CY:110:LYS:CA	57:CY:115:ARG:NH1	2.19	1.04
58:CW:91:MET:SD	58:CW:91:MET:N	2.30	1.04
63:CB:159:VAL:HG11	63:CB:184:GLN:OE1	1.58	1.04
64:CF:219:GLY:O	64:CF:220:MET:HB2	1.55	1.04
65:Cc:12:GLU:HB3	65:Cc:13:SER:CA	1.87	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Cd:43:PRO:HD2	66:Cd:44:ARG:H	1.20	1.04
66:Cd:57:MET:HE1	66:Cd:88:LEU:HD13	1.09	1.04
74:CC:76:ILE:CG2	74:CC:77:PRO:HD3	1.78	1.04
74:CC:313:VAL:CA	74:CC:314:LEU:CD2	2.29	1.04
78:Co:73:VAL:HG12	78:Co:74:GLU:N	1.65	1.04
78:Co:76:ASN:H	78:Co:78:ARG:HG3	0.93	1.04
79:CJ:48:PRO:HA	79:CJ:72:CYS:SG	1.97	1.04
81:CE:96:VAL:CG1	81:CE:97:GLY:H	1.68	1.04
82:CG:75:LYS:HD3	82:CG:240:ASN:HB2	1.07	1.04
82:CG:163:PRO:HG2	82:CG:166:LEU:HD12	1.31	1.04
82:CG:243:GLY:C	82:CG:244:PRO:CA	2.30	1.04
83:Ct:54:VAL:HG13	83:Ct:59:LEU:HD11	1.33	1.04
85:A5:4881:U:H5''	85:A5:4882:U:C5	1.92	1.04
1:Az:206:ASP:O	1:Az:212:VAL:CG2	2.04	1.04
1:Az:427:VAL:HG21	1:Az:447:ILE:CD1	1.86	1.04
2:Ag:42:MET:CG	2:Ag:92:LEU:HD11	1.85	1.04
2:Ag:46:THR:O	2:Ag:47:ARG:CB	2.05	1.04
3:AU:61:LEU:HD22	9:Ad:34:TYR:CE1	1.91	1.04
4:AK:40:VAL:HG22	4:AK:41:PRO:O	1.56	1.04
4:AK:88:GLU:OE2	35:Ah:282:GLU:CG	2.06	1.04
9:Ad:23:VAL:CB	9:Ad:38:MET:HE1	1.87	1.04
13:AP:41:GLN:HG3	13:AP:84:ILE:HG21	1.13	1.04
14:AT:84:ARG:HH21	14:AT:84:ARG:HG3	1.22	1.04
18:AY:20:ARG:HD2	18:AY:74:MET:HE2	1.38	1.04
18:AY:54:VAL:O	18:AY:75:ILE:HA	1.55	1.04
21:Ab:81:ARG:HB2	21:Ab:82:LYS:HB2	1.04	1.04
24:Ae:53:LYS:C	24:Ae:53:LYS:CD	2.30	1.04
26:AJ:37:LEU:HD21	26:AJ:42:GLU:CB	1.87	1.04
27:AE:208:VAL:CG1	27:AE:225:ILE:HD13	1.86	1.04
28:AC:74:LYS:HG3	28:AC:269:PHE:CD1	1.92	1.04
28:AC:157:LEU:CA	28:AC:160:LEU:CD2	2.34	1.04
28:AC:166:ARG:HH12	28:AC:255:LEU:HD11	0.88	1.04
29:AG:14:LYS:HZ2	29:AG:123:GLY:CA	1.66	1.04
29:AG:64:LYS:CG	29:AG:67:VAL:HG13	1.87	1.04
30:AF:91:ARG:HH11	30:AF:94:LYS:HB3	1.23	1.04
31:AH:145:ARG:HD2	32:AW:51:GLU:CG	1.87	1.04
31:AH:146:VAL:CG1	32:AW:42:MET:SD	2.46	1.04
33:AI:154:LYS:HD3	33:AI:155:ASN:N	1.72	1.04
39:Cq:276:VAL:O	39:Cq:280:PRO:HD3	0.87	1.04
42:CL:27:ASN:O	42:CL:29:PRO:HD2	1.58	1.04
46:CN:4:TYR:HD1	46:CN:46:ASP:OD1	1.39	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:21:PHE:CE2	82:CG:80:ILE:HD12	1.89	1.04
48:CD:21:ARG:HG3	48:CD:24:ARG:HH12	1.14	1.04
49:CQ:77:ASN:C	49:CQ:78:LYS:HE2	1.83	1.04
51:CA:144:LYS:O	51:CA:145:LYS:CG	2.04	1.04
51:CA:173:GLY:C	77:Cp:69:TRP:CZ3	2.28	1.04
52:CS:83:ARG:HD3	53:CT:155:PRO:HA	1.08	1.04
52:CS:145:PHE:C	52:CS:147:ASP:H	1.64	1.04
59:CZ:29:ILE:HD13	59:CZ:40:HIS:CD2	1.93	1.04
60:Cr:16:PHE:CE1	60:Cr:28:GLU:OE2	2.10	1.04
60:Cr:76:SER:H	60:Cr:79:ARG:NH2	1.45	1.04
60:Cr:78:VAL:HB	60:Cr:81:THR:HB	1.06	1.04
60:Cr:90:LEU:CG	60:Cr:118:LEU:HD11	1.87	1.04
69:Cg:41:ALA:CA	69:Cg:52:ARG:CD	2.35	1.04
70:Ci:33:LEU:O	70:Ci:37:THR:OG1	1.76	1.04
74:CC:109:ARG:HG2	74:CC:111:TRP:CH2	1.92	1.04
74:CC:128:LEU:HD21	74:CC:235:LEU:HD13	1.35	1.04
77:Cp:27:LYS:CE	77:Cp:31:ILE:HD12	1.86	1.04
81:CE:181:LEU:HD11	81:CE:268:GLN:CG	1.86	1.04
82:CG:154:LEU:HD12	82:CG:204:PHE:HD2	1.20	1.04
84:Cu:7:TYR:CE1	84:Cu:23:ILE:HD13	1.90	1.04
1:Az:103:ILE:HG12	1:Az:122:THR:HG21	1.06	1.04
1:Az:503:PRO:O	1:Az:548:GLY:O	1.75	1.04
3:Au:18:HIS:HE1	3:Au:98:VAL:HG21	1.23	1.04
4:AK:17:LYS:HD2	35:Ah:287:GLU:HG3	1.40	1.04
5:AO:56:VAL:CG1	5:AO:81:VAL:HG22	1.83	1.04
5:AO:56:VAL:CG1	5:AO:81:VAL:HG23	1.88	1.04
5:AO:125:LYS:HZ1	20:Aa:57:SER:C	1.66	1.04
5:AO:131:ASP:CB	20:Aa:67:LEU:HD21	1.88	1.04
12:AR:90:ALA:HB1	12:AR:92:ASP:OD2	1.58	1.04
14:AT:89:PRO:O	14:AT:91:HIS:NE2	1.90	1.04
16:AA:66:VAL:HG11	16:AA:186:ARG:HB3	1.35	1.04
16:AA:145:ILE:HD12	16:AA:159:ILE:HG21	1.36	1.04
19:AZ:73:VAL:HG12	19:AZ:79:ILE:HG21	1.35	1.04
21:Ab:82:LYS:O	21:Ab:83:GLN:NE2	1.91	1.04
29:AG:121:ILE:HG23	29:AG:122:PRO:HD2	1.39	1.04
30:AF:14:THR:HG21	34:AQ:56:LEU:CD1	1.88	1.04
31:AH:144:ILE:CB	32:AW:52:ILE:HG23	1.86	1.04
31:AH:144:ILE:HD12	32:AW:52:ILE:HG21	1.05	1.04
34:AQ:9:SER:HB3	34:AQ:26:LYS:HG2	1.40	1.04
34:AQ:47:LEU:HD22	34:AQ:81:ILE:HD12	1.26	1.04
34:AQ:50:LYS:HZ1	34:AQ:117:ARG:CD	1.70	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:120:ILE:HG23	38:Cz:121:PRO:HD2	1.34	1.04
39:Cq:24:TYR:HD2	39:Cq:24:TYR:N	1.53	1.04
39:Cq:211:LEU:HD13	83:Cs:50:ALA:HB1	1.23	1.04
39:Cq:232:PRO:CG	84:Cu:42:VAL:CG2	2.21	1.04
39:Cq:271:ASP:O	39:Cq:275:PHE:HD2	1.26	1.04
40:CK:124:GLU:HB2	40:CK:128:THR:CG2	1.87	1.04
41:CO:82:ARG:HA	41:CO:85:ARG:HD2	1.36	1.04
45:Ca:84:GLU:O	45:Ca:87:ARG:CG	2.05	1.04
46:CN:64:ILE:CD1	46:CN:102:ALA:CA	2.34	1.04
46:CN:68:ARG:CD	46:CN:125:SER:O	2.05	1.04
47:CI:92:HIS:HB3	47:CI:94:PHE:CE2	1.93	1.04
47:CI:112:GLN:O	47:CI:113:THR:HG23	1.58	1.04
48:CD:56:THR:O	48:CD:58:ARG:CD	2.04	1.04
48:CD:58:ARG:HH12	48:CD:93:THR:CB	1.69	1.04
48:CD:90:VAL:HG21	48:CD:226:TYR:CE1	1.92	1.04
50:CR:101:ILE:HA	50:CR:104:ARG:HD2	1.38	1.04
54:CP:18:ARG:HG3	85:A5:399:G:H5"	1.40	1.04
58:CW:34:ALA:HA	58:CW:37:GLU:CD	1.81	1.04
58:CW:50:ASN:OD1	58:CW:55:TYR:CZ	2.10	1.04
60:Cr:20:ARG:CG	67:Ce:77:PHE:CD1	2.38	1.04
61:Ch:10:ARG:HG3	61:Ch:10:ARG:NH1	1.61	1.04
61:Ch:86:LYS:HD2	61:Ch:86:LYS:N	1.73	1.04
62:Cb:41:ARG:O	62:Cb:45:PHE:HD2	1.40	1.04
63:CB:174:ARG:HG3	63:CB:174:ARG:HH11	0.90	1.04
63:CB:298:LEU:CA	63:CB:299:ILE:N	2.19	1.04
63:CB:311:ASP:O	63:CB:312:LYS:HB3	1.56	1.04
63:CB:356:LYS:HE2	63:CB:356:LYS:HA	1.09	1.04
68:Cf:33:VAL:CG1	68:Cf:81:SER:O	2.06	1.04
81:CE:95:PRO:O	81:CE:96:VAL:HG23	1.58	1.04
83:Cs:41:PRO:O	83:Cs:44:PRO:CG	2.05	1.04
83:Ct:21:VAL:CG1	83:Ct:27:LYS:CD	2.36	1.04
1:Az:607:ARG:HG2	1:Az:701:ARG:HD3	1.36	1.03
1:Az:845:LYS:CE	1:Az:846:GLU:H	1.69	1.03
2:Ag:12:LYS:CG	2:Ag:13:GLY:N	2.17	1.03
2:Ag:202:PRO:HB2	2:Ag:203:ASP:OD1	1.58	1.03
2:Ag:282:GLU:CB	2:Ag:283:PRO:CD	2.30	1.03
4:AK:4:PRO:HG2	4:AK:7:ASN:HB2	1.37	1.03
5:AO:55:ARG:O	5:AO:56:VAL:HG12	1.57	1.03
5:AO:129:ILE:HB	20:Aa:65:PRO:HG3	1.38	1.03
7:AM:116:LYS:NZ	35:Ah:293:TRP:CH2	2.26	1.03
11:AL:146:THR:O	11:AL:147:LYS:CB	2.04	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:122:PRO:HB3	12:AR:123:THR:HG21	1.40	1.03
15:AB:131:ASP:OD2	15:AB:180:ASP:HB2	1.57	1.03
15:AB:137:LEU:HB2	15:AB:172:MET:HE1	1.08	1.03
18:AY:60:PHE:C	18:AY:61:ARG:HD2	1.82	1.03
20:Aa:58:VAL:HG12	20:Aa:59:PHE:N	1.61	1.03
22:Ac:10:LYS:HD2	22:Ac:61:SER:HB2	1.39	1.03
22:Ac:49:PRO:CD	30:AF:145:ARG:HD3	1.86	1.03
22:Ac:67:ARG:HG2	22:Ac:68:LEU:H	0.87	1.03
23:AD:105:LEU:HD23	23:AD:184:ILE:HD12	1.04	1.03
23:AD:115:VAL:HB	35:Ah:178:GLY:H	1.15	1.03
24:Ae:39:ASN:HA	24:Ae:43:VAL:HG23	1.40	1.03
31:AH:9:VAL:CG1	31:AH:44:ASN:OD1	2.06	1.03
35:Ah:172:ARG:CD	35:Ah:173:GLY:HA3	1.69	1.03
43:CV:33:GLY:CA	43:CV:69:LYS:HE3	1.87	1.03
45:Ca:93:ASN:ND2	45:Ca:94:LYS:N	2.06	1.03
45:Ca:93:ASN:C	45:Ca:93:ASN:HD22	1.65	1.03
46:CN:178:HIS:O	46:CN:181:HIS:CD2	2.10	1.03
48:CD:184:ASP:OD2	48:CD:186:GLU:O	1.74	1.03
48:CD:262:LYS:HD3	48:CD:266:TRP:HE1	0.89	1.03
52:CS:159:LEU:C	52:CS:159:LEU:CD2	2.30	1.03
57:CY:42:TYR:HD1	57:CY:119:LEU:CD2	1.50	1.03
57:CY:52:ASP:OD1	57:CY:69:LYS:CD	2.06	1.03
59:CZ:33:THR:OG1	59:CZ:36:ARG:N	1.91	1.03
60:Cr:27:THR:N	60:Cr:31:ASN:HD21	1.56	1.03
60:Cr:73:PRO:HD2	60:Cr:74:ALA:H	0.90	1.03
60:Cr:75:THR:OG1	74:CC:148:PRO:O	1.64	1.03
63:CB:47:LEU:HD11	63:CB:344:VAL:HG13	1.38	1.03
63:CB:153:MET:SD	63:CB:160:ILE:HG12	1.98	1.03
65:Cc:12:GLU:HB3	65:Cc:13:SER:HA	1.04	1.03
65:Cc:17:ARG:CG	65:Cc:104:ILE:HG12	1.83	1.03
65:Cc:44:LYS:HE2	65:Cc:97:ILE:HG23	1.08	1.03
67:Ce:3:ALA:HB2	67:Ce:121:ARG:HD2	1.37	1.03
67:Ce:5:ARG:HD3	67:Ce:93:LYS:HG2	1.39	1.03
67:Ce:24:GLN:HE22	67:Ce:27:ARG:CD	1.70	1.03
74:CC:39:PHE:HD1	74:CC:39:PHE:C	1.66	1.03
74:CC:168:VAL:HG22	74:CC:224:ILE:HD13	1.39	1.03
79:CJ:29:SER:HA	79:CJ:33:LEU:CD1	1.86	1.03
80:CH:86:LEU:CD2	80:CH:189:GLN:CB	2.35	1.03
81:CE:145:THR:HG21	81:CE:200:LYS:HG2	1.38	1.03
82:CG:46:GLN:NE2	82:CG:47:PRO:CD	2.19	1.03
82:CG:89:ARG:O	82:CG:93:THR:HG23	1.56	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Ct:21:VAL:HG13	83:Ct:27:LYS:HZ3	1.19	1.03
85:A5:315:G:OP2	85:A5:4355:G:OP1	1.75	1.03
2:Ag:294:ASP:C	2:Ag:296:GLN:H	1.63	1.03
3:AU:50:VAL:HG21	3:AU:52:GLY:CA	1.87	1.03
5:AO:88:LEU:CD1	15:AB:25:PHE:CD2	2.40	1.03
8:AS:39:ARG:HD3	14:AT:38:LYS:CE	1.88	1.03
13:AP:127:LYS:HZ1	13:AP:127:LYS:C	1.66	1.03
14:AT:75:MET:HE3	14:AT:79:TYR:HE2	0.89	1.03
15:AB:19:LYS:HB2	15:AB:19:LYS:NZ	1.69	1.03
26:AJ:130:ILE:HG23	26:AJ:135:ILE:HD11	1.35	1.03
34:AQ:50:LYS:HZ1	34:AQ:117:ARG:HD2	0.87	1.03
35:Ah:179:MET:HG3	35:Ah:181:ARG:HG2	1.35	1.03
40:CK:117:ARG:HG3	40:CK:133:LEU:HD11	1.36	1.03
41:CO:9:LEU:HD11	52:CS:167:PHE:HE1	1.22	1.03
41:CO:118:MET:CE	52:CS:168:THR:C	2.32	1.03
41:CO:177:LEU:HD22	44:CM:130:LEU:CD2	1.87	1.03
42:CL:63:THR:OG1	42:CL:66:TYR:CD2	2.08	1.03
46:CN:28:TRP:CZ3	82:CG:67:ARG:CD	2.42	1.03
49:CQ:119:LYS:CE	49:CQ:121:LEU:HD21	1.86	1.03
50:CR:100:ARG:O	50:CR:104:ARG:CG	2.07	1.03
51:CA:22:HIS:O	51:CA:24:LYS:NZ	1.89	1.03
54:CP:48:LEU:CD1	54:CP:91:LEU:CD1	2.35	1.03
54:CP:109:VAL:HG12	54:CP:110:ASP:N	1.67	1.03
54:CP:124:LYS:HE2	54:CP:142:SER:OG	1.58	1.03
57:CY:110:LYS:O	57:CY:115:ARG:HD3	1.59	1.03
58:CW:27:LYS:HE2	58:CW:29:PHE:CZ	1.92	1.03
66:Cd:112:THR:OG1	66:Cd:113:THR:HG23	1.58	1.03
69:Cg:5:LEU:HD23	69:Cg:22:LEU:HD11	1.36	1.03
69:Cg:69:LYS:HG3	69:Cg:73:HIS:CE1	1.94	1.03
74:CC:189:MET:CE	74:CC:200:ARG:HE	1.71	1.03
74:CC:309:ILE:HG23	74:CC:310:HIS:H	0.94	1.03
78:Co:85:ILE:HG22	78:Co:86:LYS:N	1.72	1.03
81:CE:154:THR:CG2	85:A5:4942:C:OP1	2.05	1.03
83:Cs:11:TYR:HB3	84:Cu:9:LEU:CD2	1.85	1.03
2:Ag:282:GLU:HB3	2:Ag:283:PRO:HD2	1.09	1.03
3:AU:18:HIS:HE1	3:AU:98:VAL:CG2	1.69	1.03
3:AU:49:LYS:O	3:AU:50:VAL:HG12	1.57	1.03
12:AR:105:MET:O	12:AR:109:LEU:CD1	2.06	1.03
13:AP:49:LEU:O	13:AP:51:ARG:N	1.89	1.03
14:AT:76:THR:O	14:AT:95:GLY:N	1.90	1.03
16:AA:180:ARG:HD3	16:AA:184:ARG:NH2	1.70	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:205:ARG:HG2	16:AA:206:ASP:H	0.93	1.03
17:AV:24:ILE:HG23	17:AV:24:ILE:O	1.58	1.03
18:AY:21:LYS:HE2	18:AY:77:ASP:OD1	1.57	1.03
18:AY:101:LYS:O	18:AY:102:THR:HG23	1.57	1.03
20:Aa:62:TYR:O	20:Aa:63:VAL:CB	2.05	1.03
22:Ac:59:LEU:HD11	30:AF:123:GLU:CG	1.87	1.03
26:AJ:67:ASP:OD1	26:AJ:68:PRO:HD2	1.56	1.03
29:AG:176:ILE:HB	29:AG:179:LEU:CD2	1.87	1.03
30:AF:201:LYS:HD2	30:AF:204:ARG:NH2	1.73	1.03
32:AW:129:PHE:HD1	32:AW:129:PHE:O	1.40	1.03
39:Cq:39:GLN:CD	39:Cq:107:VAL:HG21	1.84	1.03
40:CK:79:ALA:O	40:CK:83:LYS:CG	2.07	1.03
40:CK:160:VAL:HA	40:CK:163:PRO:HG2	1.04	1.03
42:CL:58:ILE:HD13	42:CL:157:VAL:HG12	1.36	1.03
43:CV:30:ASP:CG	43:CV:32:THR:HG23	1.83	1.03
43:CV:110:GLY:CA	43:CV:129:TRP:CZ3	2.40	1.03
44:CM:60:PHE:CE2	44:CM:85:LYS:HG3	1.91	1.03
45:Ca:73:VAL:CG2	45:Ca:108:TYR:CZ	2.39	1.03
47:CI:185:VAL:HG23	47:CI:190:LEU:CD1	1.68	1.03
48:CD:21:ARG:HG3	48:CD:24:ARG:NH1	1.71	1.03
48:CD:37:VAL:HG22	48:CD:50:ARG:NH2	1.73	1.03
48:CD:223:PHE:O	48:CD:225:GLN:OE1	1.75	1.03
48:CD:261:VAL:CB	48:CD:262:LYS:CB	2.30	1.03
49:CQ:154:LYS:CE	49:CQ:163:THR:CG2	2.18	1.03
50:CR:101:ILE:HA	50:CR:104:ARG:CD	1.86	1.03
52:CS:75:VAL:CG1	52:CS:76:LYS:N	2.16	1.03
52:CS:83:ARG:CG	52:CS:92:ASN:HD21	1.66	1.03
53:CT:14:MET:HE1	53:CT:55:LYS:HB2	1.36	1.03
54:CP:15:CYS:SG	54:CP:102:ALA:HA	1.97	1.03
55:CU:59:GLY:C	55:CU:61:VAL:N	2.12	1.03
56:CX:81:LEU:HD21	56:CX:99:ILE:HG13	1.28	1.03
60:Cr:43:LEU:HD12	60:Cr:43:LEU:O	1.58	1.03
63:CB:41:VAL:HA	63:CB:187:GLY:HA3	1.37	1.03
63:CB:264:PHE:HD2	63:CB:264:PHE:C	1.64	1.03
64:CF:96:ARG:HG3	64:CF:139:TYR:HA	1.41	1.03
65:Cc:58:SER:HA	65:Cc:61:GLU:CD	1.81	1.03
69:Cg:38:VAL:HG13	69:Cg:39:GLY:N	1.71	1.03
74:CC:133:LEU:CD2	74:CC:136:LEU:CG	2.37	1.03
79:CJ:175:LEU:CB	79:CJ:176:PRO:CD	2.30	1.03
80:CH:25:VAL:HG21	80:CH:80:MET:HE1	1.37	1.03
80:CH:110:SER:HB3	80:CH:128:MET:HG2	1.28	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:39:PHE:CZ	82:CG:47:PRO:HG3	1.93	1.03
82:CG:99:ALA:HA	82:CG:204:PHE:HZ	1.21	1.03
82:CG:103:ARG:C	82:CG:104:PRO:CD	2.31	1.03
82:CG:162:ASP:N	82:CG:163:PRO:HD2	1.70	1.03
83:Cs:31:LEU:HD22	84:Cu:30:VAL:HG23	1.14	1.03
1:Az:316:ILE:HG23	1:Az:321:ILE:HB	1.34	1.03
1:Az:481:LYS:HZ1	1:Az:532:PRO:HB2	1.24	1.03
2:Ag:162:ASN:ND2	2:Ag:163:PRO:CD	2.22	1.03
4:AK:30:PRO:C	4:AK:31:LYS:HG3	1.73	1.03
6:AX:40:PRO:HB3	6:AX:81:ILE:HD11	1.31	1.03
8:AS:120:HIS:NE2	13:AP:123:TYR:CE2	2.25	1.03
13:AP:127:LYS:HB2	13:AP:127:LYS:NZ	1.64	1.03
16:AA:34:MET:HE3	16:AA:37:TYR:HD2	1.18	1.03
16:AA:118:GLU:OE1	28:AC:65:LYS:NZ	1.90	1.03
18:AY:36:PRO:CG	18:AY:39:GLU:CG	2.36	1.03
23:AD:2:ALA:HB1	23:AD:3:VAL:C	1.83	1.03
25:Af:98:VAL:CG1	25:Af:99:LYS:H	1.69	1.03
26:AJ:110:LEU:CD1	26:AJ:130:ILE:HD13	1.84	1.03
30:AF:25:THR:HG23	30:AF:41:VAL:CG2	1.89	1.03
30:AF:185:SER:HA	30:AF:190:ILE:CG2	1.88	1.03
34:AQ:58:LEU:CD2	34:AQ:111:ILE:HD12	1.85	1.03
41:CO:108:ILE:CG2	41:CO:160:ARG:CD	2.37	1.03
46:CN:104:GLU:CD	46:CN:161:MET:SD	2.42	1.03
49:CQ:121:LEU:HD22	49:CQ:125:GLN:OE1	1.58	1.03
51:CA:250:LYS:HG2	51:CA:252:VAL:HG23	1.33	1.03
53:CT:138:ALA:HA	53:CT:139:HIS:ND1	1.74	1.03
54:CP:2:VAL:HG12	54:CP:3:ARG:N	1.55	1.03
54:CP:41:ILE:CG1	54:CP:150:LEU:HD22	1.88	1.03
55:CU:39:PHE:CD2	55:CU:70:ILE:HD11	1.92	1.03
56:CX:117:TYR:C	56:CX:119:ILE:HG22	1.82	1.03
60:Cr:42:GLY:HA3	60:Cr:43:LEU:CD2	1.88	1.03
74:CC:109:ARG:HG2	74:CC:111:TRP:CZ2	1.94	1.03
74:CC:148:PRO:HG2	74:CC:152:LEU:HD13	1.38	1.03
78:Co:72:CYS:SG	78:Co:73:VAL:HG21	1.99	1.03
79:CJ:134:LEU:O	79:CJ:157:ILE:CD1	2.05	1.03
79:CJ:135:GLY:HA3	79:CJ:139:PHE:CE2	1.93	1.03
81:CE:121:VAL:HG22	81:CE:122:PRO:HD2	1.05	1.03
81:CE:181:LEU:HD11	81:CE:268:GLN:HG3	1.09	1.03
1:Az:13:MET:HE1	1:Az:464:VAL:HG13	1.03	1.03
1:Az:430:MET:HE1	1:Az:486:THR:CG2	1.89	1.03
6:AX:107:ARG:O	6:AX:110:HIS:CE1	2.12	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:108:ARG:CZ	79:CJ:119:TYR:CE2	2.42	1.03
9:Ad:26:ASN:ND2	36:B2:1495:G:O2'	1.90	1.03
11:AL:158:PHE:HD2	11:AL:158:PHE:N	1.56	1.03
12:AR:91:LEU:HB2	12:AR:93:GLN:N	1.74	1.03
12:AR:91:LEU:HD13	12:AR:92:ASP:HA	1.38	1.03
15:AB:105:LEU:CD1	15:AB:110:MET:CE	2.36	1.03
16:AA:32:PHE:HE1	16:AA:33:GLN:NE2	1.56	1.03
16:AA:34:MET:HE1	16:AA:37:TYR:CE2	1.93	1.03
16:AA:97:THR:CG2	16:AA:98:PRO:CD	2.37	1.03
23:AD:43:PRO:O	23:AD:44:THR:HG23	1.58	1.03
24:Ae:53:LYS:C	24:Ae:53:LYS:HD2	1.82	1.03
25:Af:97:LYS:HB2	25:Af:97:LYS:NZ	1.73	1.03
26:AJ:127:ARG:HG3	26:AJ:127:ARG:NH1	1.55	1.03
26:AJ:161:LEU:O	26:AJ:162:ARG:HB2	1.52	1.03
27:AE:152:PRO:CD	29:AG:212:LEU:HD21	1.88	1.03
28:AC:116:THR:CG2	28:AC:119:GLY:O	2.06	1.03
28:AC:116:THR:HG22	28:AC:119:GLY:C	1.84	1.03
31:AH:144:ILE:HB	32:AW:52:ILE:HG23	1.33	1.03
33:AI:21:TYR:CE2	33:AI:22:HIS:CD2	2.47	1.03
34:AQ:9:SER:HB2	34:AQ:26:LYS:CE	1.86	1.03
34:AQ:100:VAL:HG12	34:AQ:101:ASP:H	0.87	1.03
40:CK:77:ALA:HB3	40:CK:80:LEU:HD12	1.40	1.03
42:CL:31:ARG:NH1	42:CL:34:ARG:HB2	1.70	1.03
42:CL:64:VAL:CA	42:CL:67:HIS:CD2	2.41	1.03
44:CM:12:VAL:HG11	44:CM:60:PHE:HB3	1.41	1.03
44:CM:66:HIS:O	44:CM:67:SER:HB3	1.59	1.03
45:Ca:120:GLN:CB	45:Ca:121:PRO:CD	2.32	1.03
46:CN:198:LEU:HD23	46:CN:198:LEU:N	1.53	1.03
52:CS:2:LYS:CE	52:CS:43:ARG:HG2	1.87	1.03
52:CS:21:LYS:H	52:CS:22:CYS:HA	1.22	1.03
52:CS:59:GLY:C	52:CS:60:GLU:HG3	1.80	1.03
52:CS:60:GLU:OE2	53:CT:136:ARG:NH2	1.92	1.03
53:CT:2:THR:HG22	53:CT:2:THR:O	1.57	1.03
63:CB:174:ARG:O	63:CB:174:ARG:HG2	1.57	1.03
80:CH:109:GLY:HA2	80:CH:110:SER:HB3	1.39	1.03
80:CH:110:SER:CB	80:CH:128:MET:CG	2.35	1.03
82:CG:121:LYS:HG2	82:CG:126:GLY:O	0.86	1.03
83:Ct:15:ILE:HD11	84:Cv:9:LEU:CD1	1.81	1.03
84:Cu:23:ILE:HG21	84:Cu:39:LEU:CD2	1.87	1.03
6:AX:109:GLY:O	6:AX:119:ARG:HD3	1.56	1.02
12:AR:42:PRO:HD2	12:AR:43:SER:H	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:33:LEU:CD2	13:AP:87:PRO:HD2	1.84	1.02
15:AB:225:LEU:HB3	15:AB:229:MET:HE2	1.37	1.02
18:AY:92:ALA:CA	18:AY:97:TYR:HB3	1.89	1.02
21:Ab:64:CYS:SG	21:Ab:73:LEU:HA	1.98	1.02
21:Ab:82:LYS:O	21:Ab:83:GLN:CD	2.02	1.02
22:Ac:48:GLY:HA3	30:AF:145:ARG:HG2	1.37	1.02
23:AD:192:TRP:CE3	23:AD:196:GLY:HA2	1.72	1.02
26:AJ:100:LEU:HG	26:AJ:101:LYS:N	1.73	1.02
28:AC:74:LYS:HG3	28:AC:269:PHE:CE1	1.94	1.02
30:AF:25:THR:HG23	30:AF:41:VAL:HG23	1.42	1.02
31:AH:23:ILE:HD13	31:AH:27:LEU:CD2	1.89	1.02
31:AH:146:VAL:HG12	32:AW:42:MET:SD	1.99	1.02
34:AQ:100:VAL:HG12	34:AQ:101:ASP:N	1.68	1.02
35:Ah:151:PHE:HB2	35:Ah:153:VAL:HG23	1.09	1.02
35:Ah:151:PHE:HB3	35:Ah:152:SER:CA	1.89	1.02
39:Cq:61:MET:SD	39:Cq:82:ILE:CG2	2.46	1.02
39:Cq:61:MET:CG	39:Cq:82:ILE:HG21	1.88	1.02
39:Cq:269:LEU:HA	39:Cq:272:PRO:HG3	1.41	1.02
40:CK:47:ALA:HA	40:CK:72:GLU:HG2	1.40	1.02
46:CN:43:THR:CG2	46:CN:131:GLU:OE2	2.07	1.02
49:CQ:72:LEU:HB3	49:CQ:75:ARG:HE	1.23	1.02
50:CR:11:ALA:HB1	50:CR:50:ILE:HD11	1.08	1.02
52:CS:83:ARG:CD	53:CT:156:TYR:H	1.71	1.02
52:CS:162:GLN:HE21	52:CS:162:GLN:HA	1.25	1.02
59:CZ:14:LEU:HD11	69:Cg:88:ARG:HB2	1.40	1.02
60:Cr:70:GLN:HB3	60:Cr:71:ARG:HE	1.23	1.02
62:Cb:22:LYS:HB3	62:Cb:22:LYS:HZ2	1.04	1.02
63:CB:157:CYS:SG	63:CB:160:ILE:HD12	1.99	1.02
63:CB:264:PHE:C	63:CB:264:PHE:CD2	2.30	1.02
66:Cd:19:GLU:C	66:Cd:20:VAL:HG23	1.82	1.02
67:Ce:39:ARG:HG2	67:Ce:39:ARG:HH21	1.19	1.02
69:Cg:36:LYS:HD2	69:Cg:37:LYS:H	1.24	1.02
69:Cg:57:ARG:CD	69:Cg:59:VAL:HB	1.88	1.02
74:CC:46:LYS:CB	74:CC:49:ARG:HH11	1.71	1.02
74:CC:91:ALA:CB	74:CC:92:PHE:CD2	2.42	1.02
81:CE:215:ALA:HA	81:CE:218:LYS:CE	1.88	1.02
81:CE:224:LYS:HA	81:CE:226:ARG:HH11	1.23	1.02
82:CG:117:ARG:HG3	82:CG:130:THR:CG2	1.88	1.02
82:CG:154:LEU:HD12	82:CG:204:PHE:CD2	1.93	1.02
1:Az:160:MET:CE	1:Az:178:PHE:CE2	2.42	1.02
1:Az:402:VAL:HG23	1:Az:403:PRO:HD2	1.03	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:613:LEU:CD1	1:Az:639:TYR:CB	2.36	1.02
3:AU:50:VAL:HG13	3:AU:51:LYS:N	1.74	1.02
4:AK:83:LEU:O	4:AK:84:HIS:CG	2.13	1.02
16:AA:103:PHE:HE2	16:AA:136:GLU:CD	1.68	1.02
21:Ab:46:VAL:HG21	21:Ab:63:LEU:HD21	1.36	1.02
22:Ac:49:PRO:HD2	30:AF:145:ARG:HD3	1.39	1.02
23:AD:21:LEU:HD11	23:AD:48:ILE:CD1	1.89	1.02
23:AD:176:LEU:H	23:AD:176:LEU:CD1	1.72	1.02
23:AD:218:LEU:O	23:AD:218:LEU:HD23	1.59	1.02
27:AE:151:ASP:HB3	29:AG:212:LEU:HD21	1.05	1.02
29:AG:130:PRO:HA	58:CW:81:ALA:HB3	1.05	1.02
30:AF:42:LYS:CB	30:AF:45:TYR:N	2.14	1.02
30:AF:201:LYS:CD	30:AF:204:ARG:HH21	1.71	1.02
31:AH:40:LEU:HD23	31:AH:43:LEU:CD1	1.82	1.02
39:Cq:28:PHE:CE2	39:Cq:98:ILE:HB	1.94	1.02
39:Cq:39:GLN:HG2	39:Cq:107:VAL:HG21	1.04	1.02
39:Cq:248:VAL:CG1	84:Cv:4:VAL:CG1	2.37	1.02
41:CO:26:GLN:NE2	52:CS:166:ARG:HG2	1.73	1.02
45:Ca:129:PHE:CE1	45:Ca:146:LEU:HD21	1.94	1.02
47:CI:175:LYS:HB2	47:CI:176:PHE:CD1	1.93	1.02
48:CD:75:VAL:O	48:CD:112:ARG:NH2	1.92	1.02
49:CQ:99:LYS:NZ	49:CQ:119:LYS:HD2	1.73	1.02
49:CQ:187:LYS:CE	49:CQ:188:ASN:H	1.72	1.02
50:CR:99:MET:HE2	50:CR:128:LYS:HA	1.35	1.02
52:CS:30:MET:CE	52:CS:47:PHE:HB3	1.87	1.02
52:CS:80:ILE:CG2	52:CS:95:ARG:HG3	1.90	1.02
52:CS:83:ARG:HD3	53:CT:155:PRO:CA	1.89	1.02
52:CS:164:LYS:NZ	52:CS:165:PRO:HD3	1.72	1.02
57:CY:34:LEU:CG	57:CY:38:LEU:CB	2.35	1.02
57:CY:110:LYS:O	57:CY:115:ARG:CD	2.08	1.02
67:Ce:24:GLN:HE22	67:Ce:27:ARG:HD3	0.87	1.02
69:Cg:29:ARG:CD	69:Cg:30:ILE:N	2.21	1.02
78:Co:65:LYS:HD2	78:Co:65:LYS:H	0.89	1.02
79:CJ:128:LEU:HD13	79:CJ:130:PHE:CE2	1.89	1.02
81:CE:75:ALA:HB1	81:CE:76:ALA:HB3	1.05	1.02
81:CE:153:LEU:O	81:CE:158:ARG:HG3	1.58	1.02
82:CG:146:LEU:HD12	82:CG:147:VAL:H	1.18	1.02
84:Cv:10:ALA:HA	84:Cv:15:ASN:HD22	1.22	1.02
85:A5:4943:A:OP2	85:A5:4944:C:O5'	1.77	1.02
1:Az:255:ASP:OD1	1:Az:259:LYS:HE3	1.58	1.02
2:Ag:143:GLN:CD	2:Ag:144:ASP:CA	2.32	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:201:SER:HB2	2:Ag:202:PRO:HD3	1.41	1.02
4:AK:66:HIS:HE1	23:AD:76:ARG:HD3	1.25	1.02
7:AM:12:MET:HE1	7:AM:120:ALA:HB1	1.39	1.02
10:AN:55:ARG:NH2	21:Ab:51:GLN:NE2	2.06	1.02
11:AL:7:GLU:CG	11:AL:8:ARG:H	1.71	1.02
11:AL:95:TYR:CA	11:AL:102:PHE:HB3	1.90	1.02
14:AT:28:LEU:O	14:AT:28:LEU:HD22	1.58	1.02
15:AB:20:LYS:C	15:AB:21:VAL:CG1	2.29	1.02
16:AA:190:SER:O	16:AA:191:ARG:HG2	1.56	1.02
17:AV:23:ILE:CD1	28:AC:249:SER:O	2.06	1.02
18:AY:61:ARG:HG3	18:AY:61:ARG:NH2	1.63	1.02
22:Ac:47:LYS:NZ	30:AF:141:VAL:CB	2.17	1.02
23:AD:158:ILE:HD12	23:AD:189:MET:HE1	1.41	1.02
26:AJ:72:PHE:HE1	27:AE:248:ILE:C	1.67	1.02
26:AJ:122:SER:OG	26:AJ:124:HIS:HB2	1.56	1.02
33:AI:114:GLU:OE1	33:AI:133:GLU:CD	1.93	1.02
39:Cq:22:ASP:OD1	39:Cq:66:ARG:NH2	1.92	1.02
42:CL:16:LYS:HG2	85:A5:46:U:H5"	1.41	1.02
45:Ca:73:VAL:HG22	45:Ca:108:TYR:CE1	1.53	1.02
46:CN:46:ASP:O	46:CN:50:ARG:HB2	1.60	1.02
46:CN:116:LEU:HD11	46:CN:151:ILE:CD1	1.86	1.02
47:CI:109:ASP:OD2	47:CI:112:GLN:HB2	1.57	1.02
50:CR:49:LEU:HD21	55:CU:122:GLU:OE1	1.58	1.02
50:CR:76:MET:HE3	50:CR:76:MET:CA	1.87	1.02
51:CA:104:VAL:CA	51:CA:107:MET:HE2	1.88	1.02
51:CA:253:GLN:CG	51:CA:255:LYS:HD2	1.89	1.02
52:CS:7:LEU:HD22	52:CS:7:LEU:H	1.20	1.02
52:CS:74:ARG:HB3	52:CS:76:LYS:NZ	1.72	1.02
59:CZ:5:MET:C	59:CZ:6:LYS:CG	2.29	1.02
63:CB:34:LYS:HD2	63:CB:34:LYS:H	1.13	1.02
63:CB:303:ALA:HB2	63:CB:314:ILE:HA	1.42	1.02
66:Cd:91:LYS:CD	66:Cd:92:ARG:H	1.72	1.02
74:CC:105:THR:HB	74:CC:109:ARG:HH22	1.21	1.02
74:CC:312:ARG:O	74:CC:313:VAL:HB	1.52	1.02
80:CH:41:ILE:O	80:CH:42:ASN:HB2	1.55	1.02
82:CG:175:ARG:HH11	82:CG:176:LYS:HA	0.93	1.02
1:Az:10:ARG:NH2	1:Az:465:PRO:CD	2.21	1.02
1:Az:667:LYS:HZ3	1:Az:667:LYS:HB2	1.18	1.02
5:AO:99:ALA:H	5:AO:133:THR:HG22	0.85	1.02
7:AM:12:MET:HG3	7:AM:16:THR:CG2	1.90	1.02
7:AM:64:LEU:CD1	25:Af:104:LYS:HZ3	1.71	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Ad:13:LYS:HE3	9:Ad:14:PHE:HE2	0.91	1.02
9:Ad:23:VAL:HG23	9:Ad:38:MET:SD	1.98	1.02
10:AN:53:ILE:HD12	21:Ab:52:THR:HG21	1.37	1.02
15:AB:47:THR:HG21	15:AB:67:PHE:CZ	1.94	1.02
19:AZ:94:LYS:C	19:AZ:94:LYS:HD3	1.84	1.02
22:Ac:59:LEU:HB2	22:Ac:60:GLU:OE1	1.56	1.02
24:Ae:28:LYS:HD3	24:Ae:33:LYS:HA	1.41	1.02
29:AG:27:PHE:CZ	29:AG:41:LEU:HD12	1.94	1.02
29:AG:195:LYS:O	29:AG:199:THR:HG23	1.58	1.02
30:AF:42:LYS:CD	30:AF:42:LYS:H	1.73	1.02
30:AF:47:LYS:CG	34:AQ:117:ARG:HH22	1.72	1.02
33:AI:110:ARG:HH21	33:AI:124:LYS:HD3	1.20	1.02
39:Cq:39:GLN:NE2	39:Cq:107:VAL:HG23	1.69	1.02
39:Cq:257:TYR:OH	84:Cv:46:LEU:CG	2.06	1.02
40:CK:56:LEU:CB	40:CK:91:ASP:OD1	2.05	1.02
40:CK:94:LYS:HG2	40:CK:96:LYS:HB3	1.35	1.02
41:CO:22:ILE:HD11	52:CS:162:GLN:OE1	1.60	1.02
46:CN:80:THR:OG1	46:CN:87:HIS:CD2	2.11	1.02
46:CN:135:ILE:CG2	46:CN:142:ILE:HD13	1.90	1.02
46:CN:180:PHE:HB2	46:CN:184:ILE:HD12	1.02	1.02
49:CQ:24:TYR:HB2	74:CC:283:LYS:HD2	1.34	1.02
53:CT:127:GLN:HG3	53:CT:127:GLN:O	1.58	1.02
53:CT:134:PRO:HB2	53:CT:135:PRO:HD2	1.02	1.02
54:CP:108:ASP:OD1	54:CP:109:VAL:N	1.92	1.02
57:CY:22:PRO:CG	57:CY:25:ILE:HD12	1.89	1.02
57:CY:86:GLN:HB2	57:CY:95:VAL:O	1.58	1.02
59:CZ:42:LEU:HD22	59:CZ:96:VAL:HG12	1.35	1.02
60:Cr:46:ARG:CZ	60:Cr:69:GLY:HA3	1.90	1.02
60:Cr:87:ARG:CG	60:Cr:88:ALA:N	2.19	1.02
63:CB:39:LYS:HB2	63:CB:40:PRO:HD3	1.41	1.02
63:CB:80:GLU:CD	63:CB:171:LEU:HD22	1.84	1.02
64:CF:24:ASN:O	64:CF:26:ALA:N	1.92	1.02
67:Ce:6:PRO:CD	67:Ce:93:LYS:CE	1.83	1.02
75:Cm:95:ILE:HD11	75:Cm:124:LYS:CG	1.89	1.02
79:CJ:90:ARG:NH2	79:CJ:108:GLY:C	2.15	1.02
81:CE:37:PRO:N	81:CE:37:PRO:HA	1.75	1.02
81:CE:51:VAL:CB	81:CE:52:ARG:HA	1.90	1.02
81:CE:65:ARG:HH11	81:CE:65:ARG:CG	1.72	1.02
82:CG:40:GLY:O	82:CG:43:GLN:HG3	1.58	1.02
82:CG:104:PRO:HA	82:CG:105:GLU:OE2	1.58	1.02
83:Ct:11:TYR:HB2	84:Cv:9:LEU:HD23	1.02	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:114:GLU:OE1	1:Az:532:PRO:CD	2.07	1.02
2:Ag:87:LEU:CD1	2:Ag:101:PHE:HB2	1.90	1.02
4:AK:96:ARG:HG3	4:AK:97:SER:H	1.21	1.02
6:AX:139:GLU:O	6:AX:141:PRO:HD3	1.60	1.02
8:AS:119:ALA:HB1	13:AP:118:GLU:O	1.58	1.02
10:AN:62:GLN:HB2	10:AN:65:PHE:HD2	1.07	1.02
13:AP:5:GLU:N	13:AP:10:ARG:HH11	1.56	1.02
13:AP:10:ARG:NE	13:AP:11:THR:H	1.57	1.02
13:AP:108:LYS:HB3	13:AP:110:GLU:OE1	1.60	1.02
14:AT:31:PRO:CB	14:AT:33:TRP:CZ2	2.42	1.02
15:AB:105:LEU:O	15:AB:106:THR:HG23	1.58	1.02
16:AA:9:GLN:HB3	16:AA:10:MET:SD	2.00	1.02
18:AY:21:LYS:HD3	18:AY:21:LYS:N	1.74	1.02
23:AD:195:THR:O	23:AD:195:THR:HG22	1.58	1.02
26:AJ:127:ARG:HH12	26:AJ:145:PRO:HB2	1.23	1.02
29:AG:65:GLN:HA	29:AG:100:CYS:SG	1.98	1.02
30:AF:91:ARG:HH12	30:AF:94:LYS:CG	1.72	1.02
33:AI:206:LYS:HD2	33:AI:207:GLY:H	1.24	1.02
35:Ah:152:SER:CA	35:Ah:153:VAL:C	2.33	1.02
40:CK:125:LEU:HD13	40:CK:163:PRO:HA	1.17	1.02
41:CO:192:TYR:CD2	44:CM:122:ILE:CD1	2.43	1.02
47:CI:212:LEU:HG	47:CI:213:HIS:H	1.21	1.02
48:CD:130:TYR:C	48:CD:130:TYR:HD2	1.67	1.02
48:CD:271:MET:HE1	48:CD:275:GLN:CB	1.88	1.02
50:CR:44:LEU:HD23	50:CR:49:LEU:HD12	1.37	1.02
53:CT:125:TRP:CG	53:CT:126:VAL:H	1.78	1.02
59:CZ:57:MET:HE2	59:CZ:61:LYS:HB2	1.40	1.02
60:Cr:78:VAL:CB	60:Cr:81:THR:HB	1.90	1.02
62:Cb:75:LEU:HD11	62:Cb:79:LYS:CE	1.88	1.02
63:CB:153:MET:SD	63:CB:160:ILE:CG1	2.48	1.02
68:Cf:3:GLY:HA2	81:CE:276:ALA:HB1	1.35	1.02
69:Cg:8:ARG:HB2	69:Cg:34:TYR:OH	1.59	1.02
75:Cm:95:ILE:CD1	75:Cm:124:LYS:HG3	1.90	1.02
75:Cm:111:ARG:O	75:Cm:111:ARG:HG3	1.57	1.02
78:Co:65:LYS:CB	78:Co:85:ILE:O	2.07	1.02
82:CG:49:ARG:O	82:CG:51:LEU:CD2	2.08	1.02
82:CG:75:LYS:HD2	82:CG:240:ASN:CB	1.84	1.02
82:CG:77:PRO:HG3	82:CG:237:TRP:CZ3	1.95	1.02
82:CG:121:LYS:O	82:CG:125:LYS:O	1.76	1.02
82:CG:160:ASP:CG	82:CG:187:LYS:HG2	1.83	1.02
84:Cv:23:ILE:CG2	84:Cv:39:LEU:HD22	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:4:PHE:HD2	1:Az:5:THR:CB	1.72	1.01
1:Az:694:GLU:HG3	1:Az:844:LEU:HD12	1.41	1.01
2:Ag:31:ILE:HG22	2:Ag:43:TRP:HB2	1.40	1.01
2:Ag:144:ASP:C	2:Ag:145:GLU:CG	2.30	1.01
2:Ag:259:TRP:HE3	2:Ag:259:TRP:N	1.58	1.01
4:AK:83:LEU:CD1	4:AK:85:LEU:CD2	2.38	1.01
12:AR:85:VAL:HG22	16:AA:201:LEU:CA	1.90	1.01
15:AB:120:MET:HE3	15:AB:142:PHE:HZ	1.24	1.01
16:AA:118:GLU:OE1	28:AC:65:LYS:CE	2.08	1.01
23:AD:158:ILE:CD1	23:AD:189:MET:HE2	1.87	1.01
26:AJ:18:ARG:HB2	26:AJ:21:GLU:OE2	1.57	1.01
26:AJ:72:PHE:HE1	27:AE:248:ILE:O	1.42	1.01
27:AE:153:LEU:HD13	27:AE:172:PHE:CE1	1.94	1.01
28:AC:170:TRP:CZ2	32:AW:97:ARG:HD2	1.95	1.01
29:AG:32:MET:CE	29:AG:100:CYS:CA	2.27	1.01
40:CK:23:GLY:O	40:CK:24:ALA:CB	2.05	1.01
40:CK:61:LYS:HE2	40:CK:72:GLU:CG	1.90	1.01
40:CK:62:LEU:HD11	40:CK:73:VAL:CG2	1.90	1.01
40:CK:116:MET:O	40:CK:118:HIS:N	1.93	1.01
40:CK:123:ARG:HH11	40:CK:129:ILE:HD13	1.18	1.01
41:CO:192:TYR:HD2	44:CM:122:ILE:CD1	1.71	1.01
41:CO:202:LEU:HB3	44:CM:104:MET:HE2	1.38	1.01
46:CN:38:ARG:HG2	46:CN:62:TYR:CZ	1.95	1.01
49:CQ:27:LEU:HD22	74:CC:289:LEU:HD11	1.37	1.01
49:CQ:103:LEU:HG	49:CQ:123:PHE:HE2	1.23	1.01
49:CQ:154:LYS:HB2	49:CQ:155:ALA:CB	1.88	1.01
50:CR:100:ARG:O	50:CR:104:ARG:HG3	1.60	1.01
51:CA:104:VAL:CG1	51:CA:107:MET:HE2	1.90	1.01
51:CA:120:PRO:HD3	51:CA:162:ASN:OD1	1.58	1.01
52:CS:134:ALA:O	52:CS:136:LYS:CE	2.08	1.01
53:CT:24:VAL:HG12	53:CT:25:VAL:N	1.56	1.01
55:CU:25:CYS:O	55:CU:29:VAL:HG23	1.58	1.01
55:CU:60:VAL:HA	55:CU:75:GLU:HG2	1.04	1.01
56:CX:43:SER:H	82:CG:51:LEU:CD1	1.73	1.01
66:Cd:91:LYS:HD3	66:Cd:92:ARG:N	1.75	1.01
68:Cf:33:VAL:HG13	68:Cf:34:TYR:H	1.25	1.01
68:Cf:53:ALA:CA	68:Cf:54:LYS:HG2	1.90	1.01
69:Cg:69:LYS:HA	69:Cg:72:LYS:NZ	1.75	1.01
74:CC:154:VAL:HG11	74:CC:158:VAL:HG21	1.38	1.01
74:CC:212:ASN:O	74:CC:213:GLU:HB3	1.54	1.01
75:Cm:94:MET:SD	75:Cm:123:PRO:CA	2.47	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:65:LYS:HD2	78:Co:65:LYS:N	1.64	1.01
78:Co:72:CYS:SG	78:Co:73:VAL:CG2	2.48	1.01
79:CJ:163:MET:CE	79:CJ:174:ILE:HG12	1.90	1.01
80:CH:111:LEU:HD23	80:CH:127:ARG:HA	1.38	1.01
82:CG:150:LYS:HB2	82:CG:177:MET:HE2	1.06	1.01
82:CG:160:ASP:O	82:CG:161:VAL:HG12	1.58	1.01
82:CG:254:GLU:OE1	82:CG:254:GLU:HA	1.52	1.01
83:Ct:31:LEU:HD22	84:Cv:30:VAL:CG2	1.89	1.01
1:Az:430:MET:CE	1:Az:486:THR:HG23	1.90	1.01
3:AU:19:ARG:HG3	3:AU:92:HIS:CE1	1.95	1.01
3:AU:50:VAL:HG22	3:AU:51:LYS:O	1.60	1.01
10:AN:54:LEU:HB3	10:AN:60:VAL:HG21	1.39	1.01
12:AR:19:LYS:HD2	23:AD:212:GLU:CG	1.88	1.01
13:AP:128:HIS:HE1	36:B2:1521:C:O2	1.42	1.01
14:AT:40:ALA:HB3	14:AT:43:LYS:HG2	1.01	1.01
15:AB:48:LEU:HD12	15:AB:48:LEU:H	1.22	1.01
16:AA:127:PRO:HG2	16:AA:153:PRO:HD2	1.42	1.01
17:AV:40:ASP:HB3	17:AV:47:ASN:ND2	1.74	1.01
18:AY:13:MET:HE3	18:AY:14:THR:H	1.24	1.01
23:AD:18:LYS:HZ2	23:AD:37:VAL:HG23	1.19	1.01
23:AD:112:GLY:CA	23:AD:113:LEU:HD12	1.89	1.01
23:AD:218:LEU:HG	23:AD:220:THR:HG23	1.05	1.01
24:Ae:28:LYS:CD	24:Ae:33:LYS:HA	1.90	1.01
26:AJ:72:PHE:CE1	27:AE:248:ILE:C	2.39	1.01
26:AJ:110:LEU:HD12	26:AJ:130:ILE:CG1	1.87	1.01
27:AE:70:ILE:HG12	27:AE:92:ILE:HD11	1.04	1.01
27:AE:120:LYS:O	27:AE:164:LEU:HB2	1.59	1.01
29:AG:76:LEU:HD22	29:AG:92:ARG:HG2	1.05	1.01
35:Ah:151:PHE:N	35:Ah:153:VAL:HG11	1.75	1.01
39:Cq:168:GLY:HA3	39:Cq:171:GLU:CD	1.85	1.01
39:Cq:233:THR:O	84:Cu:1:MET:HE2	1.59	1.01
40:CK:111:ASN:HA	40:CK:114:ARG:HE	1.23	1.01
40:CK:160:VAL:CA	40:CK:163:PRO:HG3	1.88	1.01
41:CO:65:ASN:ND2	41:CO:68:ARG:CD	2.21	1.01
42:CL:156:PRO:O	42:CL:157:VAL:HG13	1.61	1.01
43:CV:30:ASP:OD2	43:CV:32:THR:CG2	2.07	1.01
47:CI:207:ASP:OD2	47:CI:208:LYS:CD	2.08	1.01
49:CQ:110:ARG:HH11	74:CC:281:MET:HE1	1.20	1.01
50:CR:71:ARG:HH11	50:CR:71:ARG:CB	1.72	1.01
50:CR:133:LYS:HG3	50:CR:137:ILE:HG21	1.42	1.01
53:CT:7:LYS:HD3	53:CT:7:LYS:C	1.81	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:57:GLN:HA	56:CX:58:PRO:HG2	1.40	1.01
59:CZ:36:ARG:HE	59:CZ:74:VAL:HG11	1.24	1.01
63:CB:61:ASP:CG	63:CB:361:GLU:HG3	1.85	1.01
66:Cd:122:VAL:CG1	66:Cd:123:ASP:H	1.73	1.01
67:Ce:5:ARG:CG	67:Ce:93:LYS:CA	2.38	1.01
69:Cg:57:ARG:NE	69:Cg:59:VAL:CG2	2.24	1.01
74:CC:147:VAL:HG13	74:CC:148:PRO:HD2	1.04	1.01
78:Co:65:LYS:CB	78:Co:66:ILE:HD13	1.91	1.01
80:CH:4:ILE:HG23	80:CH:5:LEU:H	1.23	1.01
81:CE:47:ASN:CB	81:CE:48:PRO:HD3	1.89	1.01
83:Ct:31:LEU:CD2	84:Cv:30:VAL:HG22	1.91	1.01
83:Ct:41:PRO:O	83:Ct:44:PRO:CG	2.08	1.01
84:Cv:3:TYR:O	84:Cv:7:TYR:CD2	2.12	1.01
1:Az:480:VAL:HG13	1:Az:529:LYS:HA	1.05	1.01
1:Az:609:PHE:HZ	1:Az:661:ILE:HD12	0.89	1.01
1:Az:753:GLU:HB3	1:Az:782:PHE:CD1	1.94	1.01
2:Ag:172:LYS:HE2	2:Ag:191:HIS:C	1.86	1.01
2:Ag:191:HIS:CD2	2:Ag:195:LEU:CD2	2.42	1.01
2:Ag:194:TYR:CE2	2:Ag:212:LYS:HB2	1.96	1.01
5:AO:47:LEU:C	15:AB:67:PHE:CE1	2.37	1.01
8:AS:137:LYS:C	8:AS:141:ARG:HH21	1.69	1.01
10:AN:132:LYS:HA	10:AN:132:LYS:HE3	1.01	1.01
11:AL:95:TYR:HA	11:AL:102:PHE:CB	1.90	1.01
12:AR:5:ARG:CB	12:AR:10:LYS:NZ	2.22	1.01
12:AR:19:LYS:CD	23:AD:212:GLU:CB	2.37	1.01
14:AT:144:LYS:HB2	14:AT:144:LYS:NZ	1.71	1.01
16:AA:34:MET:HE3	16:AA:37:TYR:CD2	1.95	1.01
16:AA:145:ILE:HA	16:AA:159:ILE:HG22	1.41	1.01
18:AY:63:HIS:ND1	18:AY:64:PHE:HE1	1.58	1.01
23:AD:21:LEU:HD11	23:AD:48:ILE:HD12	1.01	1.01
24:Ae:31:ARG:N	26:AJ:38:ARG:HE	1.58	1.01
26:AJ:61:LEU:HD22	26:AJ:98:LEU:HD11	1.02	1.01
30:AF:18:LYS:HE3	34:AQ:115:TYR:CD1	1.96	1.01
30:AF:63:LYS:HD3	30:AF:71:ARG:NH1	1.67	1.01
30:AF:167:LYS:CD	30:AF:171:GLU:CG	2.37	1.01
31:AH:16:PRO:HA	31:AH:17:ASP:HB2	1.39	1.01
34:AQ:9:SER:HB2	34:AQ:26:LYS:HE3	1.02	1.01
39:Cq:143:ILE:CG1	39:Cq:160:LEU:HD21	1.89	1.01
41:CO:16:LEU:HD21	41:CO:138:LEU:HD22	1.04	1.01
44:CM:107:PHE:CD1	81:CE:270:TYR:CG	2.48	1.01
48:CD:223:PHE:CD1	48:CD:226:TYR:HE2	1.41	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:18:PRO:C	52:CS:19:THR:HG22	1.81	1.01
55:CU:48:LYS:HG3	55:CU:52:LYS:HA	1.03	1.01
57:CY:42:TYR:HB3	57:CY:119:LEU:HD11	1.42	1.01
57:CY:49:ILE:HD12	57:CY:101:PRO:HB3	1.02	1.01
59:CZ:87:VAL:HG22	59:CZ:127:ASN:OD1	1.59	1.01
60:Cr:46:ARG:CB	60:Cr:68:SER:HB3	1.90	1.01
60:Cr:77:TYR:CB	60:Cr:79:ARG:HE	1.73	1.01
61:Ch:10:ARG:HH11	61:Ch:10:ARG:CG	1.74	1.01
63:CB:17:LEU:HD23	63:CB:19:ARG:HG2	1.38	1.01
65:Cc:37:MET:SD	65:Cc:97:ILE:HD11	1.99	1.01
65:Cc:102:SER:HB2	65:Cc:104:ILE:CG1	1.89	1.01
66:Cd:19:GLU:O	66:Cd:20:VAL:CG2	2.08	1.01
66:Cd:93:ASN:ND2	66:Cd:98:SER:CB	2.23	1.01
66:Cd:109:VAL:O	66:Cd:111:VAL:HG23	1.57	1.01
70:Ci:33:LEU:HB2	70:Ci:38:LYS:HE3	1.40	1.01
74:CC:130:ALA:CB	74:CC:246:VAL:CG1	2.39	1.01
78:Co:103:VAL:HG12	79:CJ:63:ARG:HE	1.21	1.01
81:CE:45:SER:OG	81:CE:49:VAL:CG1	2.04	1.01
82:CG:136:LEU:HD23	82:CG:204:PHE:CE1	1.86	1.01
82:CG:187:LYS:NZ	85:A5:150:U:O4	1.93	1.01
1:Az:448:GLN:HA	1:Az:448:GLN:NE2	1.73	1.01
2:Ag:150:TRP:CZ2	12:AR:33:ARG:CB	2.44	1.01
4:AK:27:VAL:HG13	4:AK:43:LEU:HD21	1.43	1.01
16:AA:11:LYS:HD3	16:AA:13:GLU:HG3	1.42	1.01
23:AD:196:GLY:N	23:AD:197:LYS:HA	1.58	1.01
26:AJ:79:ARG:NH1	26:AJ:83:ARG:CZ	2.23	1.01
27:AE:139:LEU:CD1	27:AE:154:ILE:HG21	1.90	1.01
28:AC:116:THR:HG23	28:AC:118:ALA:O	1.59	1.01
28:AC:210:PRO:CG	28:AC:236:PHE:CZ	2.44	1.01
33:AI:19:LYS:HE2	33:AI:20:PRO:HD2	1.39	1.01
34:AQ:100:VAL:CG1	34:AQ:101:ASP:H	1.72	1.01
39:Cq:6:ARG:CD	39:Cq:10:LYS:HE3	1.90	1.01
39:Cq:39:GLN:HG2	39:Cq:107:VAL:CG2	1.89	1.01
39:Cq:121:VAL:HG21	39:Cq:183:PHE:CZ	1.96	1.01
40:CK:94:LYS:HB3	40:CK:96:LYS:HD2	1.17	1.01
41:CO:88:LEU:HD12	41:CO:99:LEU:HD21	1.04	1.01
41:CO:88:LEU:CD1	41:CO:99:LEU:HD21	1.88	1.01
41:CO:121:PRO:HA	41:CO:124:LEU:HD13	1.40	1.01
43:CV:25:VAL:CG1	43:CV:38:TYR:HD1	1.72	1.01
46:CN:186:GLY:N	46:CN:191:ALA:HB2	1.76	1.01
50:CR:101:ILE:HG12	50:CR:104:ARG:NH1	1.76	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:2:LYS:NZ	52:CS:43:ARG:HG2	1.69	1.01
52:CS:15:ARG:O	52:CS:16:CYS:HB2	1.56	1.01
52:CS:161:ARG:C	52:CS:163:HIS:N	1.91	1.01
53:CT:127:GLN:HE21	53:CT:127:GLN:CA	1.73	1.01
54:CP:16:LYS:HG3	54:CP:149:ILE:HG12	1.35	1.01
55:CU:40:GLU:CD	55:CU:70:ILE:HG12	1.85	1.01
55:CU:41:GLN:O	55:CU:45:GLU:OE1	1.79	1.01
56:CX:80:PRO:CG	61:Ch:33:VAL:HG22	1.89	1.01
59:CZ:5:MET:C	59:CZ:6:LYS:CD	2.34	1.01
59:CZ:42:LEU:HD23	59:CZ:96:VAL:CG1	1.87	1.01
61:Ch:67:GLU:CD	61:Ch:70:ARG:HD2	1.84	1.01
63:CB:189:THR:HG23	63:CB:192:GLU:CB	1.89	1.01
63:CB:314:ILE:HD11	63:CB:330:PHE:CE1	1.96	1.01
65:Cc:57:LYS:O	65:Cc:61:GLU:HG2	1.52	1.01
69:Cg:60:ARG:HH21	69:Cg:60:ARG:CG	1.73	1.01
74:CC:22:VAL:HG23	74:CC:258:ARG:NH2	1.73	1.01
74:CC:146:GLU:C	74:CC:175:LYS:HG3	1.85	1.01
74:CC:233:SER:CA	74:CC:263:LEU:CD1	2.25	1.01
77:Cp:84:ARG:HD2	77:Cp:84:ARG:O	1.58	1.01
79:CJ:90:ARG:CZ	79:CJ:107:PHE:HB2	1.91	1.01
81:CE:65:ARG:O	81:CE:69:TYR:CD2	2.13	1.01
1:Az:693:CYS:HB3	1:Az:835:VAL:HG13	1.43	1.01
1:Az:845:LYS:HZ1	1:Az:846:GLU:H	1.03	1.01
5:AO:54:CYS:SG	5:AO:84:ARG:HB3	2.01	1.01
7:AM:44:LYS:HD2	35:Ah:303:LYS:NZ	1.75	1.01
8:AS:117:ILE:O	8:AS:118:ARG:CG	2.07	1.01
10:AN:127:ARG:O	10:AN:131:THR:HG23	1.58	1.01
12:AR:5:ARG:CB	12:AR:10:LYS:HZ3	1.73	1.01
15:AB:87:ILE:HG21	15:AB:101:HIS:CD2	1.95	1.01
15:AB:105:LEU:HD12	15:AB:110:MET:HE2	1.04	1.01
15:AB:105:LEU:HD11	15:AB:213:ARG:CB	1.89	1.01
16:AA:24:HIS:HD2	16:AA:48:ILE:HG23	1.26	1.01
16:AA:205:ARG:CG	16:AA:206:ASP:N	2.23	1.01
18:AY:48:TYR:O	18:AY:50:THR:HG23	1.61	1.01
18:AY:99:LYS:CA	18:AY:99:LYS:CE	2.39	1.01
19:AZ:52:LYS:O	19:AZ:55:TYR:N	1.94	1.01
24:Ae:41:ARG:O	24:Ae:45:VAL:HG13	1.56	1.01
26:AJ:170:PRO:HB2	26:AJ:174:LYS:HE2	1.42	1.01
28:AC:127:PHE:CD2	28:AC:141:VAL:HG22	1.96	1.01
30:AF:42:LYS:HD3	30:AF:42:LYS:H	0.88	1.01
31:AH:50:GLU:OE2	31:AH:58:LYS:HD3	1.58	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:169:LYS:HB2	31:AH:173:PHE:CE2	1.95	1.01
39:Cq:216:LEU:HD21	83:Cs:59:LEU:O	1.60	1.01
40:CK:46:ILE:HG22	40:CK:72:GLU:CD	1.85	1.01
42:CL:9:VAL:CA	42:CL:10:LEU:HD22	1.89	1.01
42:CL:191:LEU:HD23	42:CL:194:ILE:HD12	1.06	1.01
46:CN:46:ASP:O	46:CN:49:ARG:O	1.79	1.01
48:CD:51:MET:CE	48:CD:173:ILE:HD11	1.81	1.01
48:CD:79:TYR:CG	48:CD:81:HIS:HE1	1.79	1.01
48:CD:129:GLU:CG	48:CD:177:THR:CG2	2.39	1.01
48:CD:142:PHE:HB3	48:CD:171:LEU:HD22	1.01	1.01
48:CD:190:PHE:CZ	48:CD:195:HIS:HB2	1.95	1.01
52:CS:71:SER:CB	52:CS:74:ARG:HB2	1.91	1.01
53:CT:12:ARG:CG	53:CT:13:TYR:HE2	1.62	1.01
54:CP:27:LYS:CG	54:CP:63:TYR:CD1	2.43	1.01
60:Cr:86:ALA:HB1	60:Cr:93:ILE:HD11	1.04	1.01
63:CB:290:GLY:O	63:CB:299:ILE:CG1	2.07	1.01
68:Cf:33:VAL:N	68:Cf:34:TYR:CD1	2.29	1.01
69:Cg:5:LEU:HD21	69:Cg:22:LEU:HD11	1.01	1.01
71:Cj:83:THR:HB	71:Cj:84:PRO:CD	1.88	1.01
74:CC:310:HIS:HB3	74:CC:311:ARG:HD2	1.05	1.01
75:Cm:95:ILE:HD11	75:Cm:124:LYS:HG3	1.39	1.01
79:CJ:29:SER:CA	79:CJ:33:LEU:HD12	1.91	1.01
82:CG:162:ASP:H	82:CG:163:PRO:HD2	1.23	1.01
2:Ag:2:THR:O	2:Ag:3:GLU:CB	2.08	1.00
2:Ag:275:ILE:O	2:Ag:276:SER:HB3	1.61	1.00
10:AN:19:ARG:CB	31:AH:138:GLU:OE2	2.09	1.00
10:AN:21:SER:O	10:AN:22:VAL:HG13	1.61	1.00
12:AR:20:TYR:CE2	12:AR:38:ILE:HB	1.96	1.00
13:AP:41:GLN:NE2	13:AP:84:ILE:CB	2.19	1.00
13:AP:84:ILE:O	13:AP:86:LEU:HD23	1.59	1.00
13:AP:107:ILE:HA	13:AP:111:MET:SD	2.01	1.00
14:AT:76:THR:HB	14:AT:95:GLY:O	1.61	1.00
14:AT:143:LYS:O	14:AT:144:LYS:HB3	1.61	1.00
16:AA:10:MET:SD	16:AA:10:MET:N	2.30	1.00
16:AA:188:THR:O	16:AA:188:THR:HG23	1.57	1.00
18:AY:20:ARG:HD3	18:AY:76:TYR:CZ	1.95	1.00
25:Af:108:VAL:HG21	25:Af:114:ILE:HG22	1.43	1.00
33:AI:7:ASN:O	33:AI:9:HIS:O	1.78	1.00
33:AI:144:LYS:O	33:AI:145:ILE:CG1	2.09	1.00
39:Cq:22:ASP:OD1	39:Cq:66:ARG:NE	1.93	1.00
39:Cq:168:GLY:N	39:Cq:171:GLU:OE1	1.93	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:22:VAL:HG22	40:CK:48:LYS:HB2	1.32	1.00
40:CK:162:CYS:N	40:CK:163:PRO:HD3	1.76	1.00
42:CL:28:GLN:N	42:CL:29:PRO:HD3	1.73	1.00
45:Ca:42:ARG:NH2	49:CQ:178:ARG:HH22	1.57	1.00
45:Ca:119:LYS:C	45:Ca:120:GLN:HG3	1.85	1.00
47:CI:80:CYS:SG	47:CI:147:HIS:CD2	2.53	1.00
47:CI:106:ALA:CB	47:CI:108:ALA:HB2	1.88	1.00
48:CD:58:ARG:NH1	48:CD:93:THR:CB	2.24	1.00
48:CD:271:MET:HE3	48:CD:275:GLN:HB2	1.41	1.00
54:CP:72:GLN:OE1	54:CP:83:TRP:HZ2	1.42	1.00
56:CX:87:MET:CA	56:CX:90:ILE:CD1	2.37	1.00
57:CY:117:LYS:HE3	57:CY:121:ARG:HH21	1.26	1.00
58:CW:47:ARG:O	58:CW:55:TYR:HD1	1.43	1.00
60:Cr:28:GLU:CD	60:Cr:29:PRO:CD	2.32	1.00
60:Cr:71:ARG:HG3	60:Cr:79:ARG:CB	1.92	1.00
60:Cr:82:ILE:O	60:Cr:83:ASN:HB2	1.60	1.00
63:CB:288:GLY:HA3	63:CB:330:PHE:CE1	1.97	1.00
68:Cf:11:PHE:HE2	68:Cf:97:ILE:HD11	1.23	1.00
79:CJ:20:LEU:CD1	79:CJ:83:LEU:HD21	1.90	1.00
79:CJ:26:VAL:CB	79:CJ:33:LEU:HD23	1.91	1.00
79:CJ:173:ILE:HG22	79:CJ:174:ILE:O	1.61	1.00
83:Cs:19:ASP:HB2	84:Cu:2:ARG:CD	1.90	1.00
83:Ct:41:PRO:C	83:Ct:44:PRO:HD3	1.86	1.00
85:A5:4936:G:H8	85:A5:4936:G:OP2	1.41	1.00
1:Az:592:LEU:HD22	1:Az:603:TYR:CE1	1.96	1.00
2:Ag:83:TRP:CE3	12:AR:33:ARG:NH2	2.29	1.00
2:Ag:150:TRP:CH2	12:AR:33:ARG:CB	2.45	1.00
4:AK:83:LEU:CG	4:AK:85:LEU:HD21	1.90	1.00
13:AP:128:HIS:CE1	36:B2:1521:C:O2	2.14	1.00
15:AB:136:ARG:HG2	15:AB:138:PHE:CE2	1.96	1.00
16:AA:66:VAL:CG2	16:AA:186:ARG:HD3	1.90	1.00
16:AA:205:ARG:HG2	16:AA:206:ASP:N	1.71	1.00
23:AD:132:LYS:N	23:AD:191:PRO:CD	2.25	1.00
24:Ae:41:ARG:C	24:Ae:45:VAL:CG2	2.34	1.00
29:AG:129:VAL:HB	58:CW:80:ARG:HH12	1.22	1.00
31:AH:36:LEU:CD1	31:AH:36:LEU:C	2.29	1.00
34:AQ:9:SER:HB2	34:AQ:26:LYS:HG3	1.34	1.00
34:AQ:112:LEU:HD22	34:AQ:119:LEU:HD13	1.04	1.00
39:Cq:12:ASN:O	39:Cq:16:LYS:CE	2.09	1.00
46:CN:178:HIS:HA	46:CN:181:HIS:CE1	1.96	1.00
48:CD:130:TYR:HD2	48:CD:131:ASN:N	1.59	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:271:MET:CE	48:CD:275:GLN:OE1	2.08	1.00
53:CT:125:TRP:CD1	53:CT:126:VAL:N	2.29	1.00
53:CT:135:PRO:HG2	53:CT:136:ARG:H	1.22	1.00
55:CU:48:LYS:HG3	55:CU:52:LYS:CA	1.91	1.00
56:CX:40:ILE:CG1	56:CX:41:ARG:N	2.20	1.00
56:CX:81:LEU:CD2	56:CX:99:ILE:CG1	2.27	1.00
57:CY:67:ILE:HG22	57:CY:67:ILE:O	1.61	1.00
59:CZ:13:VAL:HA	59:CZ:80:LEU:HD23	1.40	1.00
61:Ch:87:LYS:HA	71:Cj:73:ARG:HH12	1.14	1.00
69:Cg:37:LYS:CD	69:Cg:60:ARG:HH22	1.72	1.00
70:Ci:67:LYS:O	70:Ci:70:LEU:HG	1.61	1.00
74:CC:309:ILE:CG2	74:CC:310:HIS:H	1.73	1.00
77:Cp:50:ARG:CD	77:Cp:54:ILE:HD11	1.86	1.00
79:CJ:95:ARG:HB2	79:CJ:97:ASN:HD21	1.19	1.00
79:CJ:175:LEU:HB2	79:CJ:176:PRO:HD2	1.39	1.00
80:CH:63:ASN:HB2	80:CH:66:GLU:OE1	1.62	1.00
81:CE:152:ILE:HG23	81:CE:158:ARG:HA	1.42	1.00
81:CE:242:ILE:CD1	81:CE:246:ARG:NH1	2.24	1.00
82:CG:80:ILE:HG22	82:CG:81:ASN:H	1.26	1.00
1:Az:60:ARG:HH11	1:Az:60:ARG:HG2	0.86	1.00
2:Ag:98:THR:O	2:Ag:99:ARG:HD2	1.60	1.00
3:AU:50:VAL:CG2	3:AU:51:LYS:C	2.34	1.00
7:AM:100:PRO:O	7:AM:101:ARG:HD2	1.61	1.00
11:AL:35:ARG:HH21	11:AL:63:THR:HG21	1.26	1.00
11:AL:147:LYS:CD	11:AL:147:LYS:C	2.30	1.00
15:AB:19:LYS:O	15:AB:21:VAL:HG13	1.60	1.00
15:AB:52:THR:HG21	82:CG:264:LYS:NZ	1.70	1.00
15:AB:55:THR:O	15:AB:56:LYS:HD2	1.62	1.00
16:AA:66:VAL:HG13	16:AA:186:ARG:CD	1.90	1.00
18:AY:36:PRO:HG2	18:AY:39:GLU:CB	1.91	1.00
21:Ab:33:MET:HE2	21:Ab:35:VAL:CG2	1.90	1.00
22:Ac:67:ARG:CG	22:Ac:68:LEU:H	1.73	1.00
23:AD:59:LEU:CD1	23:AD:60:GLY:N	2.23	1.00
29:AG:121:ILE:CG2	29:AG:122:PRO:HD3	1.91	1.00
30:AF:20:PHE:O	30:AF:22:LYS:CA	2.10	1.00
39:Cq:257:TYR:OH	84:Cv:42:VAL:O	1.78	1.00
40:CK:80:LEU:HA	40:CK:83:LYS:CD	1.92	1.00
41:CO:187:LYS:HA	41:CO:187:LYS:CE	1.80	1.00
41:CO:190:ASP:HB3	41:CO:193:THR:HB	1.09	1.00
42:CL:156:PRO:O	42:CL:157:VAL:HG22	1.61	1.00
48:CD:95:TYR:OH	48:CD:195:HIS:HE1	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:170:LYS:O	52:CS:172:PRO:CA	2.08	1.00
56:CX:89:LYS:HZ1	56:CX:97:VAL:CG2	1.64	1.00
63:CB:223:THR:HG22	63:CB:275:HIS:H	0.84	1.00
67:Ce:129:LEU:HD23	67:Ce:130:ARG:CA	1.90	1.00
71:Cj:88:ARG:HG2	71:Cj:88:ARG:NH1	1.62	1.00
74:CC:345:ARG:HG2	74:CC:345:ARG:HH11	1.24	1.00
78:Co:66:ILE:HD11	78:Co:85:ILE:C	1.86	1.00
79:CJ:83:LEU:HD22	79:CJ:132:VAL:HG21	1.43	1.00
80:CH:18:ILE:CD1	80:CH:55:LEU:CD1	2.38	1.00
80:CH:129:ARG:HB3	80:CH:130:PRO:CD	1.91	1.00
82:CG:24:ALA:O	82:CG:26:LYS:N	1.94	1.00
83:Cs:41:PRO:C	83:Cs:44:PRO:HD3	1.86	1.00
83:Ct:21:VAL:HG11	83:Ct:27:LYS:HD3	1.42	1.00
83:Ct:41:PRO:C	83:Ct:44:PRO:CD	2.35	1.00
1:Az:823:ASP:OD1	1:Az:825:PHE:N	1.94	1.00
3:AU:51:LYS:HB2	3:AU:90:ASP:HB2	1.41	1.00
4:AK:62:PHE:CE1	4:AK:67:PHE:CE2	2.50	1.00
15:AB:137:LEU:HD22	15:AB:215:VAL:HG22	1.04	1.00
16:AA:185:MET:HE1	17:AV:39:VAL:HG12	1.00	1.00
17:AV:41:LYS:O	17:AV:43:THR:N	1.94	1.00
23:AD:178:ARG:NH1	36:B2:628:A:N3	2.07	1.00
29:AG:32:MET:SD	29:AG:100:CYS:HA	1.99	1.00
34:AQ:93:VAL:HG13	34:AQ:105:LYS:HD3	1.41	1.00
40:CK:123:ARG:CB	40:CK:128:THR:OG1	2.08	1.00
47:CI:99:ILE:CD1	47:CI:123:GLN:NE2	2.24	1.00
48:CD:41:LYS:CG	53:CT:93:ILE:HD11	1.92	1.00
48:CD:254:GLU:HA	48:CD:254:GLU:OE2	1.62	1.00
49:CQ:41:SER:O	49:CQ:43:PHE:N	1.93	1.00
56:CX:60:TYR:HE2	61:Ch:78:TYR:CB	1.75	1.00
57:CY:47:MET:HE3	57:CY:48:PRO:HD2	1.01	1.00
60:Cr:20:ARG:O	60:Cr:21:ASN:CG	2.04	1.00
60:Cr:44:ILE:HG22	60:Cr:45:HIS:N	1.72	1.00
63:CB:174:ARG:HH11	63:CB:174:ARG:CG	1.75	1.00
72:Ck:24:LYS:HE2	72:Ck:67:LYS:HB3	1.39	1.00
81:CE:153:LEU:O	81:CE:158:ARG:CG	2.10	1.00
82:CG:189:ARG:CG	82:CG:190:LEU:HD22	1.92	1.00
82:CG:234:ARG:HG2	82:CG:234:ARG:NH2	1.69	1.00
8:AS:136:THR:OG1	36:B2:1521:C:OP2	1.79	1.00
10:AN:27:LYS:CE	10:AN:27:LYS:H	1.73	1.00
13:AP:62:LYS:HG3	13:AP:65:LYS:HE2	1.40	1.00
16:AA:119:PRO:HG2	16:AA:142:LEU:HD13	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:210:PRO:CB	28:AC:236:PHE:CZ	2.36	1.00
31:AH:83:LEU:CD1	31:AH:92:VAL:HB	1.86	1.00
40:CK:38:SER:CB	40:CK:39:PRO:CD	2.39	1.00
46:CN:138:PHE:HB3	46:CN:143:ARG:NH2	1.76	1.00
48:CD:66:TYR:CD2	48:CD:66:TYR:C	2.29	1.00
52:CS:17:LEU:CD2	52:CS:58:SER:HA	1.89	1.00
52:CS:173:ASN:ND2	52:CS:174:THR:N	2.08	1.00
53:CT:135:PRO:C	53:CT:136:ARG:HG3	1.82	1.00
54:CP:10:ASN:O	54:CP:12:THR:HG23	1.62	1.00
56:CX:87:MET:HE1	56:CX:156:ILE:CD1	1.91	1.00
57:CY:34:LEU:HD21	57:CY:38:LEU:HB3	1.38	1.00
57:CY:110:LYS:O	57:CY:115:ARG:NH1	1.87	1.00
63:CB:264:PHE:CD2	63:CB:265:SER:N	2.30	1.00
74:CC:229:LEU:HD23	74:CC:229:LEU:N	1.77	1.00
78:Co:103:VAL:CG1	79:CJ:63:ARG:HE	1.74	1.00
80:CH:49:GLY:CA	80:CH:50:LYS:HZ1	1.70	1.00
1:Az:576:VAL:C	1:Az:577:VAL:HG23	1.82	1.00
1:Az:762:VAL:CG1	1:Az:796:PHE:CE1	2.45	1.00
11:AL:80:MET:HE1	11:AL:121:GLN:HA	1.42	1.00
13:AP:44:ARG:NH2	13:AP:84:ILE:N	2.09	1.00
15:AB:87:ILE:CD1	15:AB:101:HIS:HD2	1.74	1.00
29:AG:25:ARG:CG	29:AG:28:TYR:CE2	2.45	1.00
33:AI:82:VAL:HG11	33:AI:202:ILE:CD1	1.91	1.00
39:Cq:110:ALA:HB1	39:Cq:182:PRO:CD	1.92	1.00
41:CO:190:ASP:CB	41:CO:193:THR:N	2.24	1.00
41:CO:192:TYR:CB	44:CM:122:ILE:HD13	1.90	1.00
42:CL:63:THR:OG1	42:CL:66:TYR:HD2	1.43	1.00
44:CM:14:TYR:CD2	44:CM:56:GLN:OE1	2.14	1.00
47:CI:92:HIS:CB	47:CI:94:PHE:CE2	2.45	1.00
53:CT:40:VAL:HG11	53:CT:96:ILE:HG22	1.02	1.00
62:Cb:24:PRO:O	62:Cb:25:ARG:CB	2.06	1.00
65:Cc:37:MET:SD	65:Cc:97:ILE:CD1	2.50	1.00
66:Cd:23:ARG:CD	66:Cd:25:TYR:OH	2.07	1.00
79:CJ:29:SER:HA	79:CJ:33:LEU:HD12	1.00	1.00
83:Cs:17:HIS:NE2	83:Cs:23:VAL:HG21	1.77	1.00
2:Ag:100:ARG:HH11	2:Ag:100:ARG:CG	1.74	1.00
6:AX:71:ARG:HE	6:AX:82:THR:CG2	1.75	1.00
7:AM:70:ALA:HB3	7:AM:71:GLU:OE2	1.61	1.00
13:AP:41:GLN:CD	13:AP:84:ILE:CG2	2.20	1.00
27:AE:151:ASP:CB	29:AG:212:LEU:CD2	2.39	1.00
29:AG:129:VAL:CA	58:CW:80:ARG:HH11	1.75	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:122:ARG:NE	30:AF:193:LYS:NZ	2.10	1.00
39:Cq:182:PRO:CG	39:Cq:183:PHE:CE2	2.45	1.00
41:CO:124:LEU:HD22	52:CS:172:PRO:HG3	1.42	1.00
44:CM:35:ARG:HH22	52:CS:108:GLN:NE2	1.59	1.00
46:CN:183:THR:HG22	46:CN:188:ARG:HB2	1.43	1.00
49:CQ:61:LEU:HD12	49:CQ:82:VAL:HG22	1.00	1.00
49:CQ:154:LYS:HZ3	49:CQ:156:PRO:CD	1.75	1.00
51:CA:24:LYS:CE	51:CA:24:LYS:CA	2.36	1.00
51:CA:227:ARG:HG2	51:CA:227:ARG:HH11	0.85	1.00
53:CT:134:PRO:CB	53:CT:135:PRO:HD2	1.88	1.00
61:Ch:99:GLU:HA	61:Ch:102:LEU:HD12	1.42	1.00
68:Cf:9:ALA:HB1	68:Cf:28:LEU:HD11	1.40	1.00
68:Cf:53:ALA:C	68:Cf:54:LYS:CG	2.30	1.00
69:Cg:57:ARG:HE	69:Cg:59:VAL:CG2	1.75	1.00
81:CE:223:ARG:O	81:CE:224:LYS:HE2	1.59	1.00
82:CG:28:VAL:C	82:CG:31:LEU:CD2	2.35	1.00
82:CG:179:VAL:O	82:CG:179:VAL:HG12	1.61	1.00
2:Ag:87:LEU:CD1	2:Ag:101:PHE:CB	2.40	0.99
10:AN:21:SER:O	10:AN:22:VAL:HG22	1.61	0.99
26:AJ:39:ASN:H	26:AJ:42:GLU:HG2	1.26	0.99
30:AF:42:LYS:CD	30:AF:42:LYS:C	2.29	0.99
30:AF:73:THR:CG2	30:AF:93:VAL:HG21	1.91	0.99
33:AI:154:LYS:HE2	33:AI:154:LYS:C	1.86	0.99
34:AQ:50:LYS:HA	34:AQ:53:GLU:CD	1.85	0.99
35:Ah:302:ALA:O	35:Ah:303:LYS:HG3	1.62	0.99
46:CN:44:ARG:HD2	46:CN:119:TYR:CD1	1.96	0.99
49:CQ:19:LYS:HD2	49:CQ:19:LYS:C	1.87	0.99
50:CR:28:GLU:OE1	55:CU:124:GLU:OE2	1.80	0.99
53:CT:11:THR:HB	53:CT:15:PHE:HD2	1.20	0.99
54:CP:16:LYS:HG2	54:CP:149:ILE:HG12	1.41	0.99
56:CX:39:LYS:C	56:CX:39:LYS:HD2	1.87	0.99
59:CZ:73:LYS:CD	59:CZ:75:TYR:CE1	2.45	0.99
60:Cr:126:VAL:HG12	60:Cr:127:LYS:H	0.83	0.99
67:Ce:38:PRO:HG3	67:Ce:55:MET:CE	1.92	0.99
77:Cp:3:LYS:O	77:Cp:4:ARG:HG2	1.62	0.99
78:Co:72:CYS:HB3	78:Co:77:CYS:SG	2.02	0.99
81:CE:65:ARG:NH1	81:CE:65:ARG:HG2	1.62	0.99
81:CE:212:LEU:HD12	81:CE:216:TYR:HB2	1.01	0.99
1:Az:125:ALA:O	1:Az:154:VAL:HG12	1.60	0.99
1:Az:759:ILE:HD13	1:Az:784:VAL:CB	1.90	0.99
11:AL:4:ILE:HD12	11:AL:4:ILE:H	1.12	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:10:TYR:HD2	11:AL:12:LYS:NZ	1.54	0.99
12:AR:85:VAL:CG2	16:AA:201:LEU:CD1	2.37	0.99
16:AA:32:PHE:CE1	16:AA:33:GLN:NE2	2.28	0.99
30:AF:93:VAL:O	30:AF:97:PHE:HD1	1.41	0.99
33:AI:154:LYS:C	33:AI:154:LYS:CD	2.30	0.99
39:Cq:220:ARG:CZ	39:Cq:223:ALA:HB3	1.91	0.99
51:CA:39:GLY:HA3	82:CG:41:ILE:CD1	1.92	0.99
74:CC:84:THR:O	74:CC:85:HIS:CB	2.04	0.99
74:CC:147:VAL:CG1	74:CC:148:PRO:CD	2.40	0.99
81:CE:83:LYS:HD3	81:CE:86:GLU:H	1.26	0.99
83:Ct:15:ILE:HD11	84:Cv:9:LEU:HD12	1.36	0.99
84:Cu:7:TYR:CZ	84:Cu:23:ILE:HD13	1.97	0.99
1:Az:27:HIS:CD2	1:Az:28:VAL:H	1.66	0.99
1:Az:759:ILE:CD1	1:Az:784:VAL:HB	1.92	0.99
1:Az:824:PRO:O	1:Az:832:SER:HB2	1.61	0.99
2:Ag:232:GLY:HA2	2:Ag:257:LYS:NZ	1.76	0.99
6:AX:60:LYS:HG3	6:AX:116:PRO:HG3	1.44	0.99
8:AS:8:LYS:HD3	8:AS:9:PHE:HE1	0.84	0.99
13:AP:53:GLN:HG2	13:AP:80:LEU:HD12	1.39	0.99
16:AA:185:MET:O	16:AA:186:ARG:C	2.01	0.99
25:Af:135:HIS:CB	25:Af:138:ARG:HG2	1.85	0.99
26:AJ:50:LEU:HD12	26:AJ:102:ILE:HD13	1.45	0.99
26:AJ:72:PHE:CD1	27:AE:248:ILE:CD1	2.43	0.99
28:AC:170:TRP:CZ2	32:AW:97:ARG:CD	2.45	0.99
33:AI:139:LYS:CB	33:AI:145:ILE:HD11	1.92	0.99
43:CV:83:ARG:HD3	43:CV:120:PRO:O	1.62	0.99
46:CN:138:PHE:HA	46:CN:143:ARG:NH2	1.75	0.99
49:CQ:25:LEU:HD12	49:CQ:28:LEU:CD2	1.91	0.99
49:CQ:150:ARG:HB3	49:CQ:164:LYS:CB	1.92	0.99
53:CT:30:TYR:N	53:CT:30:TYR:HD2	1.52	0.99
54:CP:27:LYS:HG2	54:CP:63:TYR:CB	1.90	0.99
56:CX:43:SER:N	82:CG:51:LEU:CD1	2.25	0.99
57:CY:34:LEU:HG	57:CY:38:LEU:HB2	1.40	0.99
58:CW:119:LYS:O	58:CW:122:SER:OG	1.79	0.99
64:CF:30:ILE:CG2	64:CF:34:ARG:HE	1.72	0.99
66:Cd:115:LYS:C	66:Cd:116:ASN:CG	2.28	0.99
72:Ck:14:THR:O	72:Ck:17:ARG:CG	2.09	0.99
74:CC:39:PHE:C	74:CC:39:PHE:CD1	2.37	0.99
74:CC:109:ARG:CG	74:CC:111:TRP:CH2	2.44	0.99
74:CC:349:LEU:HD11	74:CC:353:LYS:HE2	1.42	0.99
77:Cp:47:MET:CE	77:Cp:56:HIS:C	2.35	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:667:LYS:HB2	1:Az:667:LYS:NZ	1.74	0.99
4:AK:28:HIS:HE1	9:Ad:8:TRP:CD1	1.81	0.99
13:AP:111:MET:O	13:AP:114:HIS:CD2	2.15	0.99
18:AY:64:PHE:CD1	18:AY:64:PHE:N	2.29	0.99
30:AF:20:PHE:O	30:AF:21:GLY:C	2.05	0.99
33:AI:79:ILE:HG22	33:AI:103:LEU:O	1.63	0.99
38:Cz:212:LYS:HD3	38:Cz:212:LYS:H	1.24	0.99
39:Cq:220:ARG:NH2	39:Cq:223:ALA:HB3	1.78	0.99
40:CK:1:MET:C	40:CK:2:PRO:CB	2.34	0.99
40:CK:123:ARG:NH1	40:CK:129:ILE:CD1	2.24	0.99
46:CN:96:ARG:NH1	46:CN:104:GLU:OE2	1.91	0.99
57:CY:2:LYS:HE2	57:CY:7:VAL:O	1.62	0.99
57:CY:44:VAL:HG21	57:CY:119:LEU:CD1	1.91	0.99
58:CW:21:TYR:HE2	58:CW:23:ARG:HD3	1.27	0.99
59:CZ:42:LEU:HD21	59:CZ:96:VAL:CG1	1.90	0.99
67:Ce:6:PRO:CG	67:Ce:93:LYS:CD	2.40	0.99
68:Cf:33:VAL:HG13	68:Cf:82:GLY:CA	1.83	0.99
74:CC:144:ILE:CG2	74:CC:147:VAL:HG23	1.76	0.99
74:CC:354:ALA:O	74:CC:357:ALA:HB3	1.62	0.99
83:Ct:19:ASP:CB	84:Cv:32:ILE:HD11	1.92	0.99
1:Az:206:ASP:HB3	1:Az:207:PRO:HD2	1.39	0.99
1:Az:481:LYS:CE	1:Az:532:PRO:HA	1.77	0.99
6:AX:60:LYS:CE	6:AX:116:PRO:HG3	1.92	0.99
13:AP:9:LYS:C	13:AP:10:ARG:HG3	1.82	0.99
16:AA:145:ILE:HD13	16:AA:159:ILE:HG21	1.40	0.99
18:AY:98:GLU:CD	18:AY:98:GLU:C	2.31	0.99
18:AY:114:MET:HA	18:AY:124:ASN:CG	1.88	0.99
23:AD:67:ARG:HG3	23:AD:67:ARG:HH11	1.28	0.99
39:Cq:189:ILE:HD11	39:Cq:192:VAL:CG2	1.91	0.99
39:Cq:198:ILE:CA	83:Cs:42:PHE:CE1	2.44	0.99
43:CV:25:VAL:HG12	43:CV:38:TYR:CD1	1.96	0.99
47:CI:26:VAL:HG13	47:CI:27:PRO:HD2	1.42	0.99
49:CQ:119:LYS:HE3	49:CQ:121:LEU:CD2	1.92	0.99
69:Cg:43:LYS:HB2	69:Cg:51:GLY:O	1.61	0.99
74:CC:54:VAL:HG12	74:CC:55:SER:H	0.83	0.99
74:CC:213:GLU:CA	74:CC:214:ASP:CB	2.40	0.99
75:Cm:105:PRO:C	75:Cm:107:ALA:H	1.47	0.99
81:CE:222:LEU:HD22	81:CE:238:GLU:OE1	1.62	0.99
82:CG:189:ARG:HG2	82:CG:190:LEU:HD22	1.44	0.99
1:Az:746:LEU:HD21	1:Az:785:LYS:CD	1.91	0.99
5:AO:19:PRO:HG2	5:AO:27:VAL:HG21	1.01	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:114:ASP:O	6:AX:116:PRO:CD	2.10	0.99
9:Ad:22:ARG:NH2	23:AD:16:ILE:HG21	1.76	0.99
13:AP:46:ASN:O	13:AP:49:LEU:CD2	2.11	0.99
13:AP:127:LYS:HE3	13:AP:127:LYS:O	1.60	0.99
15:AB:125:VAL:HG11	15:AB:173:THR:HG22	1.43	0.99
16:AA:57:LYS:CE	17:AV:70:LEU:CD1	2.41	0.99
16:AA:66:VAL:CG1	16:AA:186:ARG:HB3	1.93	0.99
21:Ab:36:LYS:HG3	21:Ab:78:SER:OG	1.63	0.99
27:AE:152:PRO:HD3	29:AG:212:LEU:CD2	1.91	0.99
29:AG:176:ILE:HG22	29:AG:179:LEU:CB	1.91	0.99
44:CM:63:LYS:C	44:CM:63:LYS:CE	2.36	0.99
44:CM:77:TRP:CA	44:CM:82:ILE:CD1	2.18	0.99
52:CS:16:CYS:HA	52:CS:59:GLY:CA	1.91	0.99
52:CS:90:THR:CG2	53:CT:156:TYR:CG	2.44	0.99
63:CB:173:LEU:HD11	63:CB:342:LYS:HG2	1.43	0.99
65:Cc:37:MET:HE2	65:Cc:95:ALA:HB1	1.42	0.99
2:Ag:119:GLN:NE2	2:Ag:121:VAL:HG23	1.77	0.99
3:AU:64:THR:HG22	3:AU:79:ARG:CG	1.91	0.99
13:AP:46:ASN:O	13:AP:49:LEU:HD22	1.61	0.99
13:AP:83:MET:HE3	13:AP:116:LEU:CD1	1.92	0.99
16:AA:118:GLU:OE1	28:AC:65:LYS:HE2	1.62	0.99
23:AD:193:ASP:HA	23:AD:202:LYS:O	1.61	0.99
30:AF:136:ARG:O	30:AF:203:ASN:HB3	1.62	0.99
31:AH:83:LEU:HD13	31:AH:92:VAL:CB	1.86	0.99
39:Cq:28:PHE:CE2	39:Cq:98:ILE:CB	2.46	0.99
40:CK:61:LYS:CE	40:CK:72:GLU:CA	2.33	0.99
48:CD:79:TYR:HB3	48:CD:81:HIS:CE1	1.98	0.99
48:CD:223:PHE:HB2	48:CD:226:TYR:HD2	1.27	0.99
50:CR:162:ARG:O	50:CR:166:THR:CG2	2.10	0.99
56:CX:42:THR:HA	82:CG:51:LEU:HG	1.43	0.99
56:CX:146:ALA:HA	56:CX:149:VAL:HG12	1.41	0.99
60:Cr:76:SER:O	60:Cr:79:ARG:HG2	1.60	0.99
66:Cd:29:ILE:CG2	66:Cd:33:ILE:HD12	1.93	0.99
74:CC:22:VAL:HG22	74:CC:258:ARG:NH2	1.78	0.99
78:Co:66:ILE:HG12	78:Co:85:ILE:CG1	1.92	0.99
81:CE:106:VAL:HB	81:CE:108:LYS:H	1.25	0.99
82:CG:121:LYS:CD	82:CG:122:ALA:N	2.24	0.99
82:CG:175:ARG:HH11	82:CG:176:LYS:CA	1.74	0.99
83:Ct:17:HIS:CE1	83:Ct:23:VAL:CG2	2.44	0.99
1:Az:397:TYR:HE1	1:Az:496:VAL:HG12	1.25	0.99
1:Az:430:MET:CE	1:Az:486:THR:CG2	2.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AO:128:ARG:HG3	20:Aa:62:TYR:OH	1.63	0.99
7:AM:67:ALA:O	25:Af:114:ILE:HD13	1.63	0.99
13:AP:127:LYS:C	13:AP:127:LYS:CE	2.36	0.99
18:AY:32:LYS:CG	18:AY:33:ALA:N	2.13	0.99
27:AE:128:LYS:CD	27:AE:130:PHE:CE1	2.44	0.99
31:AH:83:LEU:HD11	31:AH:92:VAL:CB	1.92	0.99
35:Ah:152:SER:HB3	35:Ah:153:VAL:O	1.63	0.99
38:Cz:58:THR:HA	38:Cz:153:SER:CB	1.92	0.99
39:Cq:215:PHE:CE1	83:Cs:14:LEU:HD23	1.94	0.99
39:Cq:259:PHE:HB2	39:Cq:264:LYS:CG	1.92	0.99
50:CR:4:LEU:CD1	50:CR:33:ALA:CA	2.40	0.99
53:CT:138:ALA:HA	53:CT:139:HIS:CE1	1.97	0.99
66:Cd:58:GLY:O	66:Cd:60:PRO:HD3	0.82	0.99
74:CC:46:LYS:HB3	74:CC:49:ARG:NH1	1.76	0.99
74:CC:310:HIS:HB2	74:CC:311:ARG:HD3	1.11	0.99
77:Cp:3:LYS:O	77:Cp:4:ARG:CG	2.11	0.99
79:CJ:83:LEU:HD21	79:CJ:132:VAL:CG2	1.91	0.99
81:CE:181:LEU:HD21	81:CE:268:GLN:HG2	1.45	0.99
83:Ct:31:LEU:HD21	84:Cv:30:VAL:HA	1.44	0.99
1:Az:692:LEU:HD11	1:Az:824:PRO:HB2	1.44	0.99
2:Ag:212:LYS:HA	2:Ag:235:ILE:HG13	1.44	0.99
3:AU:50:VAL:CG2	3:AU:52:GLY:HA2	1.91	0.99
6:AX:27:TYR:CD1	6:AX:31:HIS:NE2	2.30	0.99
11:AL:147:LYS:HG3	11:AL:148:ALA:HA	1.24	0.99
15:AB:31:TYR:HD1	15:AB:94:LYS:HA	1.26	0.99
18:AY:36:PRO:HG2	18:AY:39:GLU:CD	1.83	0.99
18:AY:63:HIS:ND1	18:AY:64:PHE:CE1	2.29	0.99
28:AC:180:VAL:HG13	28:AC:181:PRO:HD2	1.40	0.99
33:AI:25:ARG:NH1	36:B2:433:A:OP1	1.93	0.99
34:AQ:42:ILE:HD13	34:AQ:51:LEU:CG	1.93	0.99
39:Cq:131:GLY:HA3	40:CK:35:LEU:HD22	1.45	0.99
40:CK:22:VAL:HG22	40:CK:48:LYS:CA	1.92	0.99
40:CK:125:LEU:HD11	40:CK:163:PRO:HA	1.44	0.99
41:CO:177:LEU:CD2	44:CM:130:LEU:CD2	2.41	0.99
57:CY:50:ARG:HD2	57:CY:115:ARG:HH22	1.15	0.99
63:CB:285:TYR:CE1	63:CB:363:ILE:HD13	1.93	0.99
66:Cd:24:GLU:HG3	66:Cd:122:VAL:HG21	1.43	0.99
74:CC:22:VAL:HG22	74:CC:258:ARG:HE	1.27	0.99
74:CC:122:TYR:HE1	74:CC:280:PRO:CB	1.76	0.99
74:CC:154:VAL:HG22	74:CC:174:LEU:HD13	1.42	0.99
75:Cm:106:ARG:HD3	75:Cm:106:ARG:H	1.28	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:212:LEU:CD1	81:CE:216:TYR:CG	2.36	0.99
83:Cs:32:ILE:CG2	83:Cs:37:VAL:HB	1.93	0.99
1:Az:45:ILE:HG22	1:Az:78:PHE:H	1.27	0.99
1:Az:56:PHE:HE2	1:Az:455:GLY:HA2	1.23	0.99
1:Az:402:VAL:CG2	1:Az:403:PRO:CD	2.40	0.99
6:AX:105:PHE:HE2	6:AX:119:ARG:HA	0.85	0.99
12:AR:19:LYS:HD3	23:AD:212:GLU:CG	1.90	0.99
12:AR:100:PRO:HB2	12:AR:119:VAL:CG2	1.92	0.99
17:AV:81:LYS:N	17:AV:81:LYS:HD3	1.76	0.99
18:AY:114:MET:CA	18:AY:124:ASN:ND2	2.25	0.99
21:Ab:10:PRO:HG2	21:Ab:15:GLU:OE2	1.59	0.99
29:AG:50:VAL:HG13	29:AG:111:LEU:HB3	1.45	0.99
29:AG:188:LYS:HA	29:AG:191:ARG:HD3	1.45	0.99
35:Ah:285:PRO:O	35:Ah:289:THR:CG2	2.11	0.99
39:Cq:25:PRO:CG	39:Cq:92:LYS:CG	2.41	0.99
42:CL:125:ILE:CA	42:CL:138:ASP:OD2	2.10	0.99
47:CI:191:ILE:HG23	47:CI:192:PRO:HD3	1.44	0.99
52:CS:23:HIS:CB	52:CS:24:THR:HB	1.92	0.99
52:CS:45:TRP:NE1	52:CS:61:ILE:HD11	1.77	0.99
55:CU:91:LEU:HD22	55:CU:96:LEU:CB	1.92	0.99
56:CX:117:TYR:HB3	56:CX:119:ILE:CG2	1.90	0.99
57:CY:3:PHE:CZ	74:CC:222:ARG:NE	2.31	0.99
59:CZ:73:LYS:HE2	59:CZ:75:TYR:HE1	0.82	0.99
60:Cr:4:HIS:CD2	74:CC:288:ASP:HA	1.98	0.99
67:Ce:5:ARG:HG3	67:Ce:93:LYS:CA	1.90	0.99
81:CE:53:GLY:HA2	81:CE:63:TYR:CG	1.98	0.99
84:Cv:23:ILE:HG22	84:Cv:39:LEU:HD22	1.45	0.99
1:Az:613:LEU:HD21	1:Az:639:TYR:HD1	1.28	0.98
2:Ag:172:LYS:HE2	2:Ag:192:THR:CG2	1.93	0.98
5:AO:54:CYS:SG	5:AO:84:ARG:CB	2.51	0.98
11:AL:19:ASN:HD21	33:AI:69:SER:HB2	0.86	0.98
13:AP:127:LYS:C	13:AP:127:LYS:HE3	1.88	0.98
18:AY:18:LEU:CG	18:AY:20:ARG:NH1	2.25	0.98
23:AD:195:THR:C	23:AD:197:LYS:CA	2.35	0.98
26:AJ:92:MET:O	26:AJ:93:LYS:CE	2.10	0.98
26:AJ:170:PRO:CG	26:AJ:175:ARG:HG2	1.92	0.98
33:AI:118:ALA:O	33:AI:119:LEU:HD23	1.61	0.98
44:CM:47:ARG:HH22	44:CM:68:ALA:HB3	0.84	0.98
58:CW:2:LYS:HB3	58:CW:2:LYS:HZ3	1.12	0.98
65:Cc:26:LYS:NZ	65:Cc:42:LYS:HZ1	1.60	0.98
66:Cd:29:ILE:CG2	66:Cd:33:ILE:CD1	2.40	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:49:PHE:O	67:Ce:52:GLN:OE1	1.80	0.98
67:Ce:69:MET:HE3	67:Ce:75:ARG:NH2	1.76	0.98
68:Cf:74:VAL:HG13	68:Cf:84:VAL:HG11	1.44	0.98
74:CC:124:ILE:HG13	74:CC:237:ILE:HD11	1.02	0.98
75:Cm:77:ILE:O	75:Cm:78:ILE:CG2	2.11	0.98
80:CH:162:GLN:OE1	80:CH:179:ILE:O	1.80	0.98
82:CG:136:LEU:HD23	82:CG:204:PHE:CD1	1.97	0.98
82:CG:208:ASN:HD22	82:CG:210:GLU:HG3	0.85	0.98
4:AK:2:LEU:O	4:AK:3:MET:HB3	1.58	0.98
4:AK:18:GLU:O	4:AK:92:ALA:HB3	1.60	0.98
15:AB:205:TYR:CG	15:AB:206:PRO:HD2	1.98	0.98
16:AA:5:LEU:HD22	16:AA:5:LEU:C	1.87	0.98
16:AA:24:HIS:CD2	16:AA:48:ILE:HG23	1.95	0.98
21:Ab:12:PRO:O	21:Ab:16:LYS:HD3	1.63	0.98
22:Ac:59:LEU:HB3	30:AF:204:ARG:HH12	1.28	0.98
26:Aj:161:LEU:O	26:Aj:162:ARG:CB	1.96	0.98
26:Aj:165:TYR:HD1	26:Aj:165:TYR:N	1.60	0.98
30:AF:42:LYS:HE3	30:AF:43:GLU:N	1.78	0.98
42:CL:148:THR:HB	42:CL:150:LEU:HD21	1.02	0.98
47:CI:214:SER:C	48:CD:291:GLN:HE22	1.70	0.98
48:CD:42:ASN:HD21	53:CT:67:VAL:C	1.69	0.98
48:CD:152:ARG:CG	79:CJ:145:LYS:HZ3	1.73	0.98
53:CT:143:THR:HA	53:CT:146:LYS:HG3	1.41	0.98
54:CP:101:ASN:O	54:CP:105:LYS:CD	2.10	0.98
60:Cr:119:ARG:HG2	81:CE:112:MET:CE	1.93	0.98
63:CB:142:GLY:HA2	63:CB:147:GLU:OE1	1.63	0.98
78:Co:65:LYS:HE2	78:Co:87:ARG:HG3	1.43	0.98
81:CE:83:LYS:HD2	81:CE:86:GLU:H	1.26	0.98
81:CE:286:LEU:HB2	81:CE:287:VAL:HA	1.01	0.98
82:CG:99:ALA:HA	82:CG:204:PHE:CZ	1.98	0.98
1:Az:45:ILE:CG1	1:Az:46:ILE:N	2.20	0.98
2:Ag:259:TRP:N	2:Ag:259:TRP:CE3	2.29	0.98
9:Ad:22:ARG:HH21	23:AD:16:ILE:HD13	1.23	0.98
12:AR:102:THR:HG22	16:AA:24:HIS:NE2	1.78	0.98
15:AB:137:LEU:HD23	15:AB:215:VAL:HG13	1.44	0.98
18:AY:36:PRO:HG3	18:AY:39:GLU:CD	1.86	0.98
39:Cq:160:LEU:CD1	39:Cq:175:LEU:HD21	1.93	0.98
39:Cq:178:LEU:O	39:Cq:179:ASN:HB2	1.63	0.98
46:CN:36:LEU:CD2	46:CN:109:HIS:CD2	2.47	0.98
51:CA:45:VAL:HG22	51:CA:61:VAL:HG22	1.41	0.98
51:CA:118:GLU:CG	51:CA:125:LYS:NZ	2.19	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:126:LEU:HD13	51:CA:150:LEU:HD21	1.42	0.98
52:CS:127:MET:HG3	52:CS:128:LYS:HG3	1.45	0.98
56:CX:60:TYR:CE2	61:Ch:78:TYR:CB	2.46	0.98
57:CY:40:GLN:HA	57:CY:43:ASN:OD1	1.63	0.98
66:Cd:122:VAL:HG12	66:Cd:123:ASP:N	1.74	0.98
67:Ce:21:ILE:H	67:Ce:21:ILE:CD1	1.75	0.98
75:Cm:90:ASN:HD22	80:CH:176:LEU:HD23	1.27	0.98
79:CJ:103:GLY:HA3	79:CJ:157:ILE:CG2	1.92	0.98
81:CE:56:ARG:CG	81:CE:65:ARG:HH12	1.76	0.98
82:CG:143:VAL:C	82:CG:146:LEU:HG	1.87	0.98
82:CG:147:VAL:O	82:CG:177:MET:HG2	1.63	0.98
1:Az:157:MET:HE2	1:Az:214:PHE:CE1	1.97	0.98
1:Az:694:GLU:CD	1:Az:844:LEU:CD1	2.36	0.98
8:AS:6:PRO:HA	19:AZ:50:PHE:CB	1.93	0.98
8:AS:14:ARG:NH1	8:AS:17:ASN:CA	2.25	0.98
13:AP:41:GLN:CG	13:AP:84:ILE:CG1	2.15	0.98
23:AD:126:ILE:CD1	23:AD:134:CYS:SG	2.52	0.98
33:AI:141:ARG:CD	33:AI:144:LYS:HB2	1.88	0.98
42:CL:50:PRO:CB	42:CL:51:ALA:HA	1.88	0.98
44:CM:65:PRO:HG2	44:CM:65:PRO:O	1.60	0.98
48:CD:246:ALA:HA	48:CD:249:GLU:CD	1.87	0.98
48:CD:246:ALA:CA	48:CD:249:GLU:OE2	2.10	0.98
50:CR:65:LYS:O	50:CR:68:LEU:HG	1.63	0.98
52:CS:75:VAL:CG1	52:CS:76:LYS:H	1.75	0.98
52:CS:90:THR:HG23	53:CT:156:TYR:CG	1.98	0.98
56:CX:120:ASP:O	56:CX:121:VAL:CG2	2.11	0.98
61:Ch:35:LYS:O	61:Ch:38:GLY:HA2	1.64	0.98
65:Cc:11:LEU:CA	65:Cc:12:GLU:HB2	1.91	0.98
69:Cg:69:LYS:CA	69:Cg:72:LYS:CE	2.21	0.98
73:Cl:2:SER:CB	73:Cl:5:LYS:HE2	1.92	0.98
75:Cm:111:ARG:HG2	75:Cm:111:ARG:HH21	1.26	0.98
77:Cp:27:LYS:HE2	77:Cp:28:LYS:CA	1.93	0.98
80:CH:105:ILE:HG21	80:CH:112:VAL:HA	1.00	0.98
83:Ct:31:LEU:CD2	84:Cv:30:VAL:CG2	2.42	0.98
2:Ag:87:LEU:HD12	2:Ag:101:PHE:HB3	1.43	0.98
4:AK:98:ARG:HH11	4:AK:98:ARG:HG2	1.26	0.98
6:AX:29:LYS:CD	6:AX:34:THR:OG1	2.11	0.98
11:AL:22:ARG:HD2	33:AI:155:ASN:C	1.87	0.98
11:AL:118:ARG:C	11:AL:118:ARG:CD	2.31	0.98
16:AA:185:MET:HE1	17:AV:39:VAL:CG1	1.92	0.98
23:AD:43:PRO:C	23:AD:44:THR:HG23	1.88	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:177:LEU:HD22	23:AD:182:LEU:HD23	1.43	0.98
26:AJ:117:LEU:O	26:AJ:119:LEU:HD23	1.62	0.98
28:AC:125:LYS:HE3	28:AC:141:VAL:HG11	1.42	0.98
34:AQ:7:LEU:CD2	34:AQ:8:GLN:OE1	2.11	0.98
49:CQ:26:ARG:NH1	60:Cr:11:ARG:NH2	2.11	0.98
49:CQ:33:ARG:NH2	49:CQ:52:PHE:CZ	2.31	0.98
49:CQ:88:ASP:HB2	49:CQ:108:ARG:HB3	1.43	0.98
51:CA:117:GLU:CB	51:CA:122:ASP:OD1	2.10	0.98
60:Cr:77:TYR:CD2	60:Cr:79:ARG:HA	1.97	0.98
69:Cg:41:ALA:O	69:Cg:52:ARG:HD3	0.80	0.98
70:Ci:11:LEU:H	70:Ci:12:ASN:CG	1.71	0.98
74:CC:218:ILE:HA	74:CC:229:LEU:HD13	1.46	0.98
77:Cp:27:LYS:HD3	77:Cp:27:LYS:C	1.85	0.98
78:Co:76:ASN:HA	78:Co:78:ARG:HB2	1.43	0.98
14:AT:103:VAL:O	14:AT:107:LEU:HG	1.62	0.98
17:AV:9:VAL:HG12	17:AV:10:ASP:N	1.76	0.98
21:Ab:64:CYS:HG	21:Ab:73:LEU:HD23	1.23	0.98
23:AD:105:LEU:HD23	23:AD:184:ILE:CD1	1.93	0.98
23:AD:108:LYS:HB3	23:AD:113:LEU:HD22	1.41	0.98
25:Af:106:TYR:OH	25:Af:131:PHE:HZ	1.28	0.98
26:AJ:138:ARG:NH1	26:AJ:156:HIS:CG	2.31	0.98
33:AI:5:ARG:HH11	33:AI:5:ARG:HG2	1.28	0.98
36:B2:318:A:H5'	36:B2:319:C:OP2	1.61	0.98
39:Cq:116:ILE:HG23	39:Cq:166:LYS:HZ2	0.85	0.98
42:CL:167:ARG:HH22	42:CL:170:THR:HG21	1.20	0.98
46:CN:36:LEU:HD23	46:CN:109:HIS:CD2	1.98	0.98
46:CN:56:LYS:HE3	46:CN:59:TYR:HE2	0.82	0.98
49:CQ:25:LEU:O	49:CQ:28:LEU:HG	1.64	0.98
50:CR:32:ILE:CD1	50:CR:44:LEU:HD11	1.93	0.98
54:CP:131:ARG:HD2	54:CP:137:ASN:CG	1.88	0.98
55:CU:21:PHE:HZ	55:CU:80:LYS:CE	1.68	0.98
56:CX:39:LYS:O	56:CX:40:ILE:HG22	1.62	0.98
58:CW:79:GLN:OE1	58:CW:94:ARG:NH2	1.94	0.98
59:CZ:33:THR:HG23	59:CZ:40:HIS:HE1	1.26	0.98
63:CB:159:VAL:CG1	63:CB:184:GLN:OE1	2.11	0.98
63:CB:341:LYS:O	63:CB:342:LYS:HB2	1.63	0.98
70:Ci:23:LYS:CB	70:Ci:24:PRO:CD	2.41	0.98
79:CJ:83:LEU:CD2	79:CJ:132:VAL:HG21	1.93	0.98
86:A7:48:G:O2'	86:A7:49:A:O4'	1.81	0.98
1:Az:825:PHE:HE2	1:Az:849:PRO:CD	1.51	0.98
2:Ag:2:THR:O	2:Ag:3:GLU:HB3	1.62	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:194:TYR:OH	2:Ag:212:LYS:HD2	1.62	0.98
11:AL:20:LYS:O	11:AL:21:LYS:HB2	1.62	0.98
12:AR:19:LYS:HD2	23:AD:212:GLU:HB3	1.45	0.98
13:AP:4:VAL:CA	13:AP:10:ARG:CD	1.99	0.98
15:AB:36:PRO:HB3	15:AB:231:LEU:HD21	0.99	0.98
29:AG:176:ILE:HB	29:AG:179:LEU:HD23	1.00	0.98
30:AF:76:MET:HE2	30:AF:169:ILE:HG21	1.43	0.98
39:Cq:111:ALA:CB	39:Cq:183:PHE:CE2	2.43	0.98
40:CK:10:ILE:O	40:CK:66:ASN:OD1	1.81	0.98
40:CK:78:SER:CB	40:CK:117:ARG:NH1	2.17	0.98
42:CL:43:ALA:O	42:CL:47:ALA:N	1.95	0.98
43:CV:30:ASP:OD2	43:CV:32:THR:HG23	1.63	0.98
44:CM:32:ASP:HB2	44:CM:35:ARG:CG	1.94	0.98
44:CM:32:ASP:CB	44:CM:35:ARG:HD2	1.93	0.98
49:CQ:92:VAL:O	49:CQ:112:ARG:CZ	2.12	0.98
50:CR:93:VAL:O	50:CR:97:ARG:HG3	1.62	0.98
54:CP:131:ARG:HH11	54:CP:137:ASN:ND2	1.60	0.98
60:Cr:20:ARG:CB	67:Ce:77:PHE:CE1	2.45	0.98
65:Cc:28:VAL:CB	65:Cc:33:GLN:HG2	1.93	0.98
66:Cd:80:VAL:CG1	66:Cd:81:PRO:CD	2.42	0.98
74:CC:22:VAL:HG22	74:CC:258:ARG:NE	1.76	0.98
74:CC:92:PHE:CD2	74:CC:92:PHE:N	2.29	0.98
74:CC:147:VAL:HG12	74:CC:148:PRO:HD2	1.45	0.98
1:Az:585:GLU:CD	1:Az:737:GLN:HE22	1.71	0.98
4:AK:62:PHE:HD1	4:AK:67:PHE:CE2	1.76	0.98
11:AL:12:LYS:NZ	33:AI:194:GLU:CD	2.22	0.98
13:AP:9:LYS:O	13:AP:10:ARG:CG	2.10	0.98
14:AT:31:PRO:HB3	14:AT:33:TRP:CH2	1.97	0.98
14:AT:75:MET:CE	14:AT:79:TYR:HE2	1.77	0.98
15:AB:179:ASN:OD1	15:AB:183:GLU:OE1	1.80	0.98
18:AY:9:THR:OG1	18:AY:48:TYR:OH	1.80	0.98
18:AY:114:MET:HE1	18:AY:125:VAL:HG23	1.45	0.98
20:Aa:84:VAL:HB	36:B2:1866:A:N6	1.76	0.98
26:AJ:110:LEU:HD12	26:AJ:130:ILE:HD13	1.36	0.98
28:AC:70:VAL:CG2	28:AC:97:PHE:CE2	2.46	0.98
29:AG:84:TYR:CE2	29:AG:86:PRO:HG3	1.99	0.98
29:AG:157:VAL:CG1	29:AG:159:ARG:N	2.09	0.98
39:Cq:105:ASN:O	39:Cq:106:LYS:HG2	1.63	0.98
39:Cq:236:SER:O	39:Cq:238:PRO:N	1.96	0.98
41:CO:108:ILE:HG22	41:CO:160:ARG:NH1	1.77	0.98
41:CO:190:ASP:CB	41:CO:193:THR:H	1.75	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:24:LEU:HD11	44:CM:86:TRP:CG	1.98	0.98
45:Ca:120:GLN:CG	45:Ca:121:PRO:CD	2.04	0.98
46:CN:75:VAL:HB	46:CN:76:PRO:HD2	1.44	0.98
46:CN:115:VAL:CA	46:CN:134:LEU:HD23	1.90	0.98
51:CA:227:ARG:HH11	51:CA:227:ARG:CG	1.77	0.98
52:CS:159:LEU:CD2	52:CS:160:ARG:N	2.26	0.98
54:CP:30:ARG:HD2	54:CP:63:TYR:HE2	1.26	0.98
55:CU:27:HIS:CD2	55:CU:114:TYR:HB3	1.97	0.98
56:CX:56:ARG:C	56:CX:57:GLN:CG	2.35	0.98
59:CZ:10:VAL:C	59:CZ:83:THR:HG23	1.89	0.98
65:Cc:82:GLY:N	65:Cc:91:VAL:HG21	1.78	0.98
71:Cj:21:ARG:NH2	71:Cj:41:ALA:O	1.96	0.98
73:Cl:44:TRP:CZ3	73:Cl:45:ARG:HG2	1.99	0.98
77:Cp:49:ARG:HB2	77:Cp:55:TRP:CE3	1.98	0.98
81:CE:46:ARG:NE	81:CE:46:ARG:HA	1.78	0.98
83:Ct:54:VAL:CG1	83:Ct:59:LEU:HD11	1.94	0.98
1:Az:225:LEU:HD21	1:Az:257:MET:O	1.64	0.98
1:Az:745:TYR:HB2	1:Az:815:ASP:H	1.24	0.98
5:AO:31:CYS:CB	5:AO:95:ILE:HG12	1.92	0.98
6:AX:67:ARG:C	6:AX:68:LYS:HG3	1.86	0.98
8:AS:46:ARG:CG	14:AT:50:GLU:OE2	2.10	0.98
8:AS:119:ALA:CB	13:AP:118:GLU:O	2.11	0.98
11:AL:7:GLU:HG3	11:AL:8:ARG:HG3	1.46	0.98
32:AW:11:LEU:HD12	32:AW:74:VAL:HB	1.45	0.98
39:Cq:25:PRO:HG2	39:Cq:92:LYS:CA	1.87	0.98
39:Cq:214:ARG:HB3	83:Cs:10:ILE:CD1	1.94	0.98
39:Cq:248:VAL:HG13	84:Cv:4:VAL:HG11	1.43	0.98
46:CN:99:GLN:HE21	46:CN:130:PHE:HE1	1.06	0.98
63:CB:376:HIS:HE1	85:A5:4664:A:OP1	1.47	0.98
70:Ci:63:VAL:O	70:Ci:65:LYS:N	1.96	0.98
74:CC:219:LYS:NZ	74:CC:222:ARG:NH1	2.04	0.98
79:CJ:20:LEU:HD13	79:CJ:83:LEU:HD21	0.98	0.98
79:CJ:97:ASN:O	79:CJ:99:PHE:N	1.97	0.98
83:Cs:21:VAL:HG11	83:Cs:27:LYS:HD3	1.42	0.98
1:Az:121:VAL:HG23	1:Az:122:THR:HG23	1.46	0.98
12:AR:13:ALA:CB	12:AR:54:VAL:HG22	1.92	0.98
24:Ae:34:ARG:HG2	26:AJ:32:ILE:HG21	1.46	0.98
40:CK:111:ASN:HA	40:CK:114:ARG:NE	1.78	0.98
46:CN:64:ILE:HD11	46:CN:102:ALA:CA	1.92	0.98
46:CN:77:LYS:HD2	46:CN:77:LYS:C	1.89	0.98
51:CA:24:LYS:CE	51:CA:24:LYS:HA	1.91	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:164:LYS:HE3	52:CS:165:PRO:HD2	1.44	0.98
55:CU:21:PHE:CE1	55:CU:80:LYS:CG	2.42	0.98
55:CU:63:ILE:HD12	55:CU:72:VAL:HG22	0.98	0.98
63:CB:17:LEU:HD23	63:CB:19:ARG:CG	1.93	0.98
74:CC:54:VAL:HG12	74:CC:55:SER:N	1.59	0.98
81:CE:144:ILE:HD11	81:CE:196:ALA:CB	1.93	0.98
82:CG:28:VAL:HA	82:CG:31:LEU:HD21	1.39	0.98
85:A5:4881:U:H2'	85:A5:4882:U:C2	1.98	0.98
1:Az:759:ILE:HD13	1:Az:784:VAL:CG1	1.93	0.97
4:AK:62:PHE:CD1	4:AK:67:PHE:CZ	2.51	0.97
8:AS:124:ARG:CZ	13:AP:123:TYR:OH	2.11	0.97
11:AL:82:MET:CE	36:B2:373:G:H4'	1.93	0.97
12:AR:100:PRO:O	12:AR:103:LYS:N	1.90	0.97
13:AP:52:LYS:H	13:AP:54:HIS:CD2	1.81	0.97
15:AB:20:LYS:C	15:AB:21:VAL:HG13	1.87	0.97
27:AE:47:PHE:CE2	27:AE:52:LEU:CD1	2.46	0.97
31:AH:144:ILE:HD12	32:AW:52:ILE:HD13	1.42	0.97
34:AQ:21:ALA:HB2	34:AQ:72:VAL:HG22	1.45	0.97
34:AQ:58:LEU:HD13	34:AQ:108:ILE:HG23	1.44	0.97
35:Ah:150:GLU:O	35:Ah:151:PHE:CB	2.10	0.97
39:Cq:260:PRO:N	39:Cq:264:LYS:HG3	1.77	0.97
44:CM:77:TRP:NE1	44:CM:82:ILE:HG21	1.79	0.97
45:Ca:120:GLN:O	45:Ca:140:VAL:HG11	1.64	0.97
45:Ca:129:PHE:HZ	45:Ca:146:LEU:HD21	1.20	0.97
49:CQ:16:LYS:HD2	49:CQ:16:LYS:N	1.77	0.97
50:CR:132:PHE:CE1	50:CR:137:ILE:HG12	1.98	0.97
52:CS:87:ARG:HG2	52:CS:87:ARG:NH1	1.70	0.97
54:CP:57:CYS:SG	54:CP:83:TRP:CZ2	2.57	0.97
77:Cp:49:ARG:HB2	77:Cp:55:TRP:CD2	1.98	0.97
1:Az:72:SER:OG	1:Az:104:ASP:HB3	1.64	0.97
28:AC:117:ARG:HB2	28:AC:117:ARG:CZ	1.91	0.97
29:AG:32:MET:HE1	29:AG:100:CYS:HA	1.00	0.97
39:Cq:139:GLN:HA	39:Cq:142:GLY:HA2	1.46	0.97
39:Cq:269:LEU:C	39:Cq:272:PRO:HD2	1.89	0.97
40:CK:102:GLY:CA	40:CK:139:VAL:HG12	1.89	0.97
49:CQ:88:ASP:CB	49:CQ:108:ARG:HB3	1.93	0.97
63:CB:59:GLU:OE1	63:CB:69:LYS:C	2.06	0.97
63:CB:108:GLU:CB	63:CB:137:TRP:NE1	2.27	0.97
63:CB:361:GLU:OE2	63:CB:362:LYS:N	1.97	0.97
66:Cd:114:PHE:O	66:Cd:115:LYS:HG3	1.61	0.97
69:Cg:43:LYS:HA	69:Cg:52:ARG:HA	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:232:ILE:HD12	81:CE:232:ILE:O	1.64	0.97
1:Az:78:PHE:O	1:Az:79:TYR:CD1	2.16	0.97
1:Az:198:GLY:CA	1:Az:201:GLY:CA	2.40	0.97
10:AN:22:VAL:CB	10:AN:23:PRO:HA	1.94	0.97
21:Ab:33:MET:CA	21:Ab:81:ARG:O	2.12	0.97
24:Ae:44:ASN:H	24:Ae:45:VAL:HB	1.29	0.97
26:AJ:72:PHE:CZ	27:AE:248:ILE:CB	2.47	0.97
30:AF:14:THR:HB	34:AQ:56:LEU:HD13	1.43	0.97
36:B2:841:G:C2'	36:B2:842:C:H5'	1.93	0.97
38:Cz:143:ASN:HA	38:Cz:146:ALA:HB3	1.43	0.97
39:Cq:259:PHE:HB3	39:Cq:260:PRO:HD2	1.47	0.97
40:CK:1:MET:H3	40:CK:2:PRO:HB3	1.29	0.97
44:CM:32:ASP:HA	52:CS:145:PHE:HZ	1.21	0.97
47:CI:193:ASP:OD2	47:CI:198:LYS:HG2	1.63	0.97
56:CX:38:LYS:CE	56:CX:39:LYS:O	2.12	0.97
57:CY:42:TYR:CD1	57:CY:119:LEU:HD22	1.98	0.97
62:Cb:51:LYS:N	62:Cb:51:LYS:HE2	1.77	0.97
65:Cc:99:PRO:HG2	65:Cc:105:ILE:HG13	1.28	0.97
74:CC:143:ARG:HH11	74:CC:143:ARG:HG2	1.29	0.97
80:CH:52:LYS:O	80:CH:53:LYS:HB2	1.62	0.97
81:CE:45:SER:CB	81:CE:49:VAL:HB	1.94	0.97
81:CE:51:VAL:HG12	81:CE:52:ARG:HA	1.42	0.97
83:Ct:11:TYR:CD2	84:Cv:12:LEU:HD12	1.94	0.97
1:Az:777:ALA:O	1:Az:779:THR:C	2.05	0.97
2:Ag:149:GLU:OE2	2:Ag:150:TRP:N	1.97	0.97
3:AU:111:GLU:OE1	3:AU:111:GLU:HA	1.64	0.97
10:AN:55:ARG:NH1	21:Ab:47:PHE:CE2	2.33	0.97
15:AB:20:LYS:O	15:AB:21:VAL:CG1	2.12	0.97
17:AV:23:ILE:CD1	28:AC:249:SER:CA	2.41	0.97
18:AY:18:LEU:CG	18:AY:20:ARG:HH11	1.76	0.97
21:Ab:3:LEU:HD23	21:Ab:3:LEU:N	1.78	0.97
27:AE:61:VAL:O	27:AE:65:CYS:SG	2.22	0.97
28:AC:65:LYS:HD3	28:AC:266:TYR:CE1	1.98	0.97
29:AG:10:THR:O	58:CW:80:ARG:NH1	1.96	0.97
30:AF:73:THR:HG22	30:AF:93:VAL:CG2	1.93	0.97
31:AH:8:ILE:HG23	31:AH:9:VAL:HG22	0.98	0.97
31:AH:157:HIS:C	31:AH:158:LEU:HD23	1.89	0.97
32:AW:129:PHE:HD1	32:AW:129:PHE:C	1.71	0.97
35:Ah:152:SER:HA	35:Ah:153:VAL:HB	1.45	0.97
44:CM:120:ASN:O	44:CM:123:ILE:CG2	2.11	0.97
47:CI:38:ARG:HG3	47:CI:83:ASP:HB2	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:95:VAL:HG22	49:CQ:116:ALA:HB2	1.46	0.97
52:CS:15:ARG:HH12	52:CS:24:THR:HG21	1.29	0.97
56:CX:62:ARG:HG2	56:CX:62:ARG:HH11	1.29	0.97
59:CZ:26:VAL:CA	59:CZ:89:ILE:CD1	2.42	0.97
59:CZ:26:VAL:CA	59:CZ:89:ILE:HD11	1.95	0.97
59:CZ:84:ARG:CG	65:Cc:62:TYR:OH	2.11	0.97
61:Ch:3:LYS:O	61:Ch:4:ILE:HD13	1.64	0.97
63:CB:248:LEU:N	85:A5:2838:G:OP1	1.97	0.97
66:Cd:114:PHE:O	66:Cd:115:LYS:CG	2.12	0.97
70:Ci:85:ARG:HD2	70:Ci:85:ARG:N	1.79	0.97
78:Co:43:ARG:HH22	85:A5:294:G:H4'	1.24	0.97
78:Co:65:LYS:O	78:Co:66:ILE:HG23	1.53	0.97
1:Az:427:VAL:HG13	1:Az:485:ILE:HG23	1.46	0.97
2:Ag:88:ARG:HD2	2:Ag:90:TRP:CZ2	1.99	0.97
8:AS:85:ASN:OD1	8:AS:97:GLN:HA	1.65	0.97
15:AB:68:GLU:OE2	15:AB:83:LYS:HE2	1.64	0.97
19:AZ:48:VAL:C	19:AZ:83:LEU:CD1	2.38	0.97
20:Aa:28:ARG:HH11	20:Aa:30:VAL:CG2	1.61	0.97
23:AD:145:GLN:NE2	35:Ah:167:GLY:H	1.62	0.97
28:AC:75:ILE:O	28:AC:97:PHE:HE1	1.45	0.97
30:AF:122:ARG:NE	30:AF:193:LYS:HZ1	1.60	0.97
33:AI:141:ARG:O	33:AI:143:LYS:HB3	1.65	0.97
39:Cq:259:PHE:O	39:Cq:265:VAL:HG23	1.63	0.97
42:CL:150:LEU:CD1	61:Ch:121:VAL:O	2.13	0.97
44:CM:89:THR:OG1	44:CM:92:ALA:CB	2.12	0.97
49:CQ:95:VAL:CG2	49:CQ:116:ALA:CB	2.42	0.97
50:CR:32:ILE:HD12	50:CR:44:LEU:HD13	1.00	0.97
51:CA:32:VAL:HG23	51:CA:163:ARG:HH22	1.27	0.97
52:CS:98:ARG:HD2	52:CS:145:PHE:CG	1.97	0.97
57:CY:86:GLN:CB	57:CY:95:VAL:O	2.12	0.97
65:Cc:44:LYS:HE2	65:Cc:97:ILE:CG2	1.94	0.97
67:Ce:35:TRP:CZ2	67:Ce:56:PRO:CD	2.47	0.97
71:Cj:89:ALA:O	71:Cj:90:ALA:HB2	1.63	0.97
79:CJ:175:LEU:HB3	79:CJ:176:PRO:HD2	1.28	0.97
79:CJ:175:LEU:O	79:CJ:176:PRO:O	1.82	0.97
80:CH:41:ILE:HG23	80:CH:42:ASN:N	1.74	0.97
82:CG:113:ARG:HG3	82:CG:113:ARG:NH2	1.53	0.97
1:Az:754:GLN:OE1	1:Az:755:VAL:HG23	1.64	0.97
11:AL:80:MET:SD	11:AL:120:VAL:HG12	2.04	0.97
27:AE:21:ASP:CG	27:AE:24:THR:HG21	1.87	0.97
39:Cq:211:LEU:HD12	83:Cs:50:ALA:HB1	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:160:VAL:O	40:CK:163:PRO:CG	2.12	0.97
41:CO:54:TYR:CD2	41:CO:145:VAL:HG21	1.99	0.97
48:CD:246:ALA:C	48:CD:249:GLU:HG2	1.88	0.97
49:CQ:83:VAL:HA	49:CQ:123:PHE:CZ	1.99	0.97
51:CA:28:ARG:HB3	51:CA:123:ARG:CG	1.94	0.97
52:CS:111:ARG:HG2	52:CS:111:ARG:NH2	1.75	0.97
55:CU:63:ILE:HD12	55:CU:72:VAL:CG2	1.93	0.97
63:CB:378:ARG:HG3	63:CB:378:ARG:NH1	1.52	0.97
77:Cp:8:VAL:O	77:Cp:11:VAL:HG22	1.63	0.97
80:CH:12:ILE:HD12	80:CH:13:PRO:CD	1.93	0.97
81:CE:181:LEU:HD12	81:CE:261:ILE:HD12	1.44	0.97
5:AO:44:VAL:HG21	5:AO:93:LEU:HD13	1.45	0.97
18:AY:93:ARG:HG2	18:AY:93:ARG:NH1	1.71	0.97
19:AZ:48:VAL:O	19:AZ:83:LEU:CD1	2.12	0.97
49:CQ:110:ARG:CZ	74:CC:281:MET:SD	2.51	0.97
49:CQ:154:LYS:HE2	49:CQ:156:PRO:CD	1.93	0.97
53:CT:144:ASN:HD22	53:CT:144:ASN:C	1.70	0.97
57:CY:124:LYS:O	57:CY:127:GLN:HG2	1.63	0.97
58:CW:98:PRO:O	58:CW:100:VAL:N	1.96	0.97
60:Cr:71:ARG:HG3	60:Cr:79:ARG:HB3	1.42	0.97
65:Cc:29:LEU:CD2	65:Cc:94:LEU:CD1	2.21	0.97
68:Cf:53:ALA:HA	68:Cf:54:LYS:CG	1.95	0.97
79:CJ:53:ALA:HB2	79:CJ:68:ILE:HD11	1.46	0.97
80:CH:12:ILE:HD12	80:CH:13:PRO:N	1.79	0.97
81:CE:54:ILE:O	81:CE:63:TYR:N	1.97	0.97
1:Az:6:VAL:O	1:Az:7:ASP:C	2.04	0.97
3:AU:73:GLY:O	3:AU:74:SER:C	2.07	0.97
10:AN:12:SER:O	10:AN:13:GLN:HG3	1.65	0.97
18:AY:122:LYS:HD3	18:AY:123:ALA:N	1.79	0.97
22:Ac:15:THR:CG2	22:Ac:33:GLU:CG	2.42	0.97
26:AJ:100:LEU:HD12	26:AJ:104:ASP:OD2	1.62	0.97
30:AF:185:SER:CA	30:AF:190:ILE:HG21	1.95	0.97
33:AI:10:LYS:HG3	33:AI:11:ARG:N	1.79	0.97
34:AQ:92:LEU:CG	34:AQ:96:TYR:HE2	1.77	0.97
40:CK:10:ILE:HG22	40:CK:66:ASN:N	1.66	0.97
40:CK:56:LEU:CB	40:CK:91:ASP:CG	2.38	0.97
40:CK:97:ASN:CA	40:CK:98:ILE:CG1	2.07	0.97
41:CO:181:ALA:CB	44:CM:126:GLU:HG2	1.94	0.97
42:CL:125:ILE:HG22	42:CL:127:PHE:HE1	1.25	0.97
50:CR:102:LEU:HD22	50:CR:138:LEU:HD12	1.47	0.97
58:CW:87:LEU:HD23	58:CW:90:ILE:HD11	1.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:74:LYS:HD2	61:Ch:75:GLY:N	1.78	0.97
74:CC:209:ILE:HD12	74:CC:227:ILE:HD11	1.47	0.97
74:CC:213:GLU:H	74:CC:214:ASP:HB3	1.16	0.97
74:CC:310:HIS:CG	74:CC:311:ARG:HD3	2.00	0.97
74:CC:349:LEU:CG	74:CC:353:LYS:HE2	1.94	0.97
1:Az:42:LYS:CE	1:Az:79:TYR:OH	2.12	0.97
1:Az:226:LYS:NZ	1:Az:356:ILE:HD12	1.78	0.97
16:AA:17:LYS:N	16:AA:17:LYS:HE2	1.79	0.97
17:AV:18:SER:OG	17:AV:72:LEU:CD1	2.13	0.97
17:AV:23:ILE:CD1	28:AC:249:SER:C	2.37	0.97
17:AV:81:LYS:HB2	17:AV:81:LYS:NZ	1.65	0.97
25:Af:140:TYR:CE1	25:Af:146:LEU:O	2.18	0.97
27:AE:38:LEU:C	27:AE:38:LEU:CD1	2.33	0.97
27:AE:149:TYR:CD2	29:AG:205:GLU:CB	2.47	0.97
28:AC:259:THR:CG2	28:AC:261:PHE:CA	2.43	0.97
35:Ah:152:SER:HA	35:Ah:154:ASP:N	1.80	0.97
39:Cq:26:LYS:HE2	39:Cq:94:ASP:CA	1.95	0.97
40:CK:61:LYS:HE2	40:CK:72:GLU:CB	1.94	0.97
41:CO:4:VAL:HG12	41:CO:4:VAL:O	1.62	0.97
43:CV:93:GLY:HA3	63:CB:73:VAL:CG2	1.93	0.97
45:Ca:84:GLU:CA	45:Ca:87:ARG:CG	2.32	0.97
48:CD:273:LEU:CD1	48:CD:277:LYS:CE	2.36	0.97
52:CS:21:LYS:N	52:CS:22:CYS:HA	1.74	0.97
63:CB:56:ILE:HD11	63:CB:368:ILE:HG12	1.47	0.97
66:Cd:85:ARG:HB2	66:Cd:114:PHE:CE1	1.98	0.97
77:Cp:50:ARG:HD2	77:Cp:54:ILE:CD1	1.93	0.97
80:CH:118:LEU:HD21	80:CH:177:ASP:CG	1.89	0.97
81:CE:74:SER:CB	81:CE:74:SER:N	2.28	0.97
11:AL:7:GLU:HG3	11:AL:8:ARG:H	1.26	0.97
13:AP:51:ARG:N	13:AP:51:ARG:HD2	1.77	0.97
14:AT:28:LEU:HD22	14:AT:28:LEU:C	1.90	0.97
16:AA:106:GLY:C	16:AA:113:GLN:OE1	2.08	0.97
18:AY:62:THR:HG22	18:AY:69:THR:HG22	1.45	0.97
21:Ab:8:LEU:CD2	32:AW:62:VAL:CB	2.42	0.97
25:Af:144:CYS:HB3	25:Af:147:THR:HG22	0.98	0.97
27:AE:122:LYS:CG	27:AE:164:LEU:HD21	1.95	0.97
30:AF:25:THR:HG22	30:AF:42:LYS:HD2	0.97	0.97
35:Ah:152:SER:OG	35:Ah:154:ASP:HB2	1.64	0.97
39:Cq:182:PRO:CG	39:Cq:183:PHE:HE2	1.78	0.97
58:CW:20:ARG:HH12	58:CW:28:VAL:HG11	1.16	0.97
63:CB:108:GLU:HA	63:CB:137:TRP:HE1	1.29	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:CF:161:LYS:CG	64:CF:209:TRP:HZ3	1.78	0.97
66:Cd:101:LYS:H	66:Cd:101:LYS:CD	1.73	0.97
80:CH:12:ILE:CD1	80:CH:13:PRO:HD2	1.93	0.97
81:CE:121:VAL:CB	81:CE:122:PRO:HD2	1.93	0.97
1:Az:745:TYR:CE2	1:Az:746:LEU:O	2.18	0.96
3:AU:67:LYS:CG	3:AU:78:ASP:OD2	2.13	0.96
4:AK:88:GLU:OE2	35:Ah:282:GLU:CA	2.12	0.96
9:Ad:13:LYS:HG3	9:Ad:14:PHE:HD2	1.27	0.96
10:AN:137:PRO:O	10:AN:138:ASN:CG	2.07	0.96
15:AB:77:ASP:O	15:AB:79:VAL:HG22	1.64	0.96
18:AY:35:VAL:HG12	18:AY:36:PRO:HD2	1.42	0.96
19:AZ:92:LEU:HD11	19:AZ:109:TYR:CE1	2.00	0.96
28:AC:227:ARG:HH11	28:AC:228:GLY:HA2	0.82	0.96
29:AG:67:VAL:HG21	29:AG:99:GLY:HA2	1.45	0.96
32:AW:7:LEU:HD11	32:AW:33:VAL:HG11	1.46	0.96
41:CO:65:ASN:HD22	41:CO:68:ARG:HE	1.13	0.96
42:CL:19:GLN:HB2	42:CL:20:ARG:HH11	1.24	0.96
44:CM:31:ILE:O	52:CS:98:ARG:HD3	1.64	0.96
46:CN:10:LEU:HD13	70:Ci:44:ILE:HD11	1.44	0.96
46:CN:11:TRP:CE3	46:CN:44:ARG:NH2	2.31	0.96
47:CI:101:LYS:O	47:CI:103:LEU:HD21	1.64	0.96
49:CQ:76:GLU:OE2	49:CQ:97:LYS:NZ	1.97	0.96
53:CT:24:VAL:HG12	53:CT:25:VAL:H	0.81	0.96
53:CT:125:TRP:HD1	53:CT:126:VAL:HG23	0.80	0.96
55:CU:40:GLU:OE2	55:CU:70:ILE:CG1	2.12	0.96
65:Cc:59:GLU:CD	69:Cg:92:LYS:HE3	1.86	0.96
68:Cf:33:VAL:HG21	68:Cf:82:GLY:O	1.63	0.96
79:CJ:128:LEU:HD11	79:CJ:130:PHE:CD2	1.93	0.96
82:CG:77:PRO:CB	82:CG:237:TRP:HZ3	1.70	0.96
82:CG:121:LYS:HD3	82:CG:125:LYS:O	1.65	0.96
6:AX:29:LYS:CD	6:AX:34:THR:HG21	1.94	0.96
8:AS:12:ILE:O	8:AS:12:ILE:HG22	1.60	0.96
15:AB:57:ILE:HG23	15:AB:57:ILE:O	1.62	0.96
18:AY:63:HIS:CB	18:AY:64:PHE:CE1	2.47	0.96
26:AJ:70:ARG:NH2	26:AJ:94:LEU:HD21	1.80	0.96
27:AE:48:LEU:HD21	27:AE:70:ILE:CD1	1.95	0.96
29:AG:33:ALA:H	29:AG:52:ILE:HG23	1.30	0.96
39:Cq:254:GLU:OE1	84:Cv:54:VAL:HG11	1.63	0.96
46:CN:28:TRP:CZ3	82:CG:67:ARG:CZ	2.48	0.96
49:CQ:16:LYS:H	49:CQ:16:LYS:CD	1.77	0.96
51:CA:219:ILE:HG22	51:CA:220:GLY:N	1.79	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:5:MET:N	59:CZ:6:LYS:CD	2.28	0.96
60:Cr:20:ARG:HG2	67:Ce:77:PHE:CZ	2.00	0.96
60:Cr:70:GLN:CB	60:Cr:71:ARG:HE	1.77	0.96
74:CC:122:TYR:CE1	74:CC:280:PRO:CB	2.48	0.96
77:Cp:85:ARG:HH22	77:Cp:86:LEU:HD23	0.81	0.96
78:Co:76:ASN:N	78:Co:78:ARG:HG3	1.78	0.96
82:CG:46:GLN:CD	82:CG:47:PRO:HD2	1.90	0.96
1:Az:58:ASP:C	1:Az:63:GLU:OE1	2.08	0.96
4:AK:15:LEU:HD13	4:AK:21:MET:CE	1.96	0.96
4:AK:65:ARG:HH11	4:AK:65:ARG:CB	1.76	0.96
5:AO:72:TYR:HB3	30:AF:135:ARG:HH21	1.29	0.96
16:AA:58:LEU:CD2	16:AA:178:LEU:HD21	1.94	0.96
17:AV:19:ALA:HB3	17:AV:59:ILE:CD1	1.95	0.96
25:Af:98:VAL:HG12	25:Af:99:LYS:H	0.80	0.96
26:AJ:170:PRO:CB	26:AJ:174:LYS:HE2	1.95	0.96
28:AC:130:ILE:HD11	28:AC:155:ILE:HG23	1.45	0.96
29:AG:32:MET:CE	29:AG:100:CYS:C	2.38	0.96
29:AG:142:ARG:CG	29:AG:142:ARG:HH11	1.79	0.96
33:AI:161:LEU:HD11	33:AI:199:LEU:HD12	0.99	0.96
39:Cq:246:LYS:CE	83:Ct:63:VAL:CG1	2.41	0.96
41:CO:16:LEU:CD2	41:CO:138:LEU:CD2	2.44	0.96
41:CO:81:TRP:HZ3	41:CO:85:ARG:NE	1.57	0.96
42:CL:31:ARG:NH1	42:CL:34:ARG:HB3	1.80	0.96
45:Ca:82:VAL:HG12	45:Ca:83:SER:O	1.66	0.96
46:CN:4:TYR:HE2	82:CG:141:ASN:HD21	1.04	0.96
49:CQ:36:ALA:HB1	49:CQ:45:GLN:NE2	1.79	0.96
50:CR:142:ILE:HA	50:CR:145:LEU:HD11	1.44	0.96
55:CU:66:SER:C	55:CU:67:LYS:HG2	1.88	0.96
59:CZ:46:ILE:HD11	59:CZ:49:TYR:HE1	1.28	0.96
60:Cr:73:PRO:HD2	60:Cr:74:ALA:N	1.73	0.96
60:Cr:117:ILE:O	60:Cr:120:SER:OG	1.83	0.96
61:Ch:73:TYR:CG	61:Ch:79:LYS:HG2	2.00	0.96
63:CB:57:VAL:CG1	63:CB:366:LYS:HE2	1.94	0.96
63:CB:352:LEU:HD23	63:CB:353:VAL:N	1.80	0.96
70:CI:70:LEU:HD12	70:CI:71:LYS:N	1.81	0.96
75:Cm:105:PRO:C	75:Cm:107:ALA:N	2.00	0.96
84:Cv:10:ALA:HA	84:Cv:15:ASN:ND2	1.79	0.96
4:AK:17:LYS:CD	35:Ah:287:GLU:HG3	1.96	0.96
12:AR:19:LYS:HD2	23:AD:212:GLU:CB	1.96	0.96
14:AT:77:LYS:HA	14:AT:94:ARG:HG2	1.47	0.96
23:AD:3:VAL:O	23:AD:3:VAL:HG12	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:130:PHE:HB3	27:AE:138:HIS:CE1	2.00	0.96
31:AH:93:VAL:HG22	31:AH:94:PHE:H	1.28	0.96
35:Ah:152:SER:HB3	35:Ah:155:ARG:HB2	1.46	0.96
39:Cq:66:ARG:CD	39:Cq:69:LEU:HD22	1.70	0.96
39:Cq:75:LEU:HD22	39:Cq:78:LEU:CD1	1.95	0.96
40:CK:102:GLY:HA2	40:CK:139:VAL:CB	1.95	0.96
43:CV:93:GLY:CA	63:CB:73:VAL:CG2	2.43	0.96
49:CQ:22:ASP:CG	74:CC:33:ARG:HE	1.72	0.96
55:CU:120:ASP:O	55:CU:121:GLU:HG3	1.62	0.96
56:CX:39:LYS:HD2	56:CX:40:ILE:N	1.80	0.96
58:CW:34:ALA:CA	58:CW:37:GLU:HG3	1.94	0.96
64:CF:41:MET:HE3	85:A5:2121:C:C5'	1.94	0.96
64:CF:162:ILE:HG21	64:CF:177:ARG:NH2	1.80	0.96
65:Cc:13:SER:CB	65:Cc:17:ARG:CZ	2.42	0.96
67:Ce:35:TRP:NE1	67:Ce:56:PRO:HG3	1.81	0.96
69:Cg:42:PRO:CB	69:Cg:53:LEU:HD13	1.94	0.96
70:Ci:11:LEU:HD22	70:Ci:12:ASN:OD1	1.64	0.96
71:Cj:64:MET:HE3	71:Cj:68:LYS:CA	1.94	0.96
74:CC:296:PRO:HD2	74:CC:297:GLU:N	1.67	0.96
75:Cm:105:PRO:HG2	75:Cm:106:ARG:HD3	1.44	0.96
1:Az:430:MET:HE1	1:Az:486:THR:HG21	1.46	0.96
1:Az:694:GLU:CG	1:Az:844:LEU:HD12	1.92	0.96
2:Ag:42:MET:HG3	2:Ag:92:LEU:CD1	1.95	0.96
3:AU:40:ILE:HD11	3:AU:53:PRO:CB	1.94	0.96
6:AX:115:ILE:O	6:AX:115:ILE:HG22	1.65	0.96
7:AM:76:LEU:O	7:AM:128:PHE:CZ	2.18	0.96
9:Ad:23:VAL:HG23	9:Ad:38:MET:HE1	1.00	0.96
12:AR:83:ASN:O	16:AA:201:LEU:CD1	2.12	0.96
14:AT:84:ARG:NH2	14:AT:84:ARG:CB	2.29	0.96
14:AT:84:ARG:HH21	14:AT:84:ARG:CB	1.77	0.96
28:AC:164:PRO:HB2	28:AC:248:TYR:CE2	2.00	0.96
39:Cq:91:THR:OG1	39:Cq:98:ILE:HD11	1.65	0.96
39:Cq:183:PHE:O	39:Cq:184:SER:HB3	1.62	0.96
39:Cq:233:THR:HG22	84:Cu:4:VAL:HG21	1.46	0.96
47:CI:175:LYS:O	47:CI:176:PHE:HB2	1.63	0.96
50:CR:71:ARG:HB3	50:CR:71:ARG:NH1	1.80	0.96
66:Cd:80:VAL:CG1	66:Cd:81:PRO:HD2	1.95	0.96
66:Cd:112:THR:HB	66:Cd:113:THR:HG22	1.48	0.96
68:Cf:32:GLY:HA2	68:Cf:34:TYR:HE1	1.25	0.96
74:CC:142:HIS:HE1	74:CC:249:PHE:H	1.03	0.96
74:CC:313:VAL:HG13	74:CC:314:LEU:H	1.20	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:Cm:105:PRO:HG2	75:Cm:106:ARG:CD	1.94	0.96
79:CJ:163:MET:CE	79:CJ:174:ILE:CG1	2.37	0.96
83:Cs:16:LEU:HD21	83:Cs:31:LEU:CD1	1.96	0.96
1:Az:588:ASN:OD1	1:Az:589:VAL:N	1.98	0.96
1:Az:766:LYS:HG2	1:Az:788:LEU:HD11	1.47	0.96
4:AK:3:MET:SD	4:AK:8:ARG:NH2	2.34	0.96
4:AK:15:LEU:CD1	4:AK:21:MET:HE2	1.94	0.96
10:AN:115:LEU:O	10:AN:119:GLU:CG	2.13	0.96
11:AL:22:ARG:NH1	11:AL:22:ARG:HB3	1.79	0.96
14:AT:77:LYS:CA	14:AT:94:ARG:HG2	1.96	0.96
16:AA:143:PRO:CB	17:AV:34:MET:SD	2.52	0.96
30:AF:36:GLN:CG	30:AF:37:ASP:CG	2.38	0.96
34:AQ:72:VAL:HG21	34:AQ:84:ILE:CG2	1.96	0.96
38:Cz:111:LEU:CD1	38:Cz:143:ASN:HB2	1.95	0.96
39:Cq:242:ILE:CD1	83:Ct:63:VAL:HG21	1.91	0.96
42:CL:9:VAL:CA	42:CL:10:LEU:CD2	2.43	0.96
44:CM:47:ARG:HH22	44:CM:68:ALA:CB	1.78	0.96
57:CY:55:VAL:HG11	57:CY:104:VAL:HG11	0.98	0.96
62:Cb:37:PRO:O	62:Cb:40:LEU:N	1.98	0.96
63:CB:113:GLU:O	63:CB:178:ALA:HB3	1.62	0.96
63:CB:157:CYS:SG	63:CB:160:ILE:CD1	2.53	0.96
1:Az:60:ARG:C	1:Az:60:ARG:CD	2.29	0.96
1:Az:165:LEU:HD12	1:Az:305:MET:HE2	1.31	0.96
1:Az:855:LEU:CD2	1:Az:856:ASP:N	2.27	0.96
2:Ag:194:TYR:OH	2:Ag:212:LYS:CD	2.14	0.96
6:AX:74:LEU:HD11	6:AX:81:ILE:HD12	1.47	0.96
8:AS:42:HIS:HD2	14:AT:45:LEU:CD1	1.53	0.96
11:AL:97:ARG:O	11:AL:99:TYR:N	1.97	0.96
24:Ae:38:TYR:CE1	26:AJ:30:LYS:CA	2.49	0.96
27:AE:86:PHE:HZ	27:AE:182:MET:CE	1.79	0.96
29:AG:64:LYS:CD	29:AG:67:VAL:HG13	1.94	0.96
31:AH:144:ILE:O	32:AW:51:GLU:HA	1.65	0.96
33:AI:136:ILE:HG22	33:AI:139:LYS:HE3	1.48	0.96
33:AI:154:LYS:CD	33:AI:155:ASN:N	2.29	0.96
44:CM:60:PHE:HZ	44:CM:85:LYS:CG	1.66	0.96
49:CQ:110:ARG:HG3	49:CQ:120:ILE:HD13	1.48	0.96
53:CT:132:PRO:HG2	64:CF:126:ASN:HD21	1.31	0.96
60:Cr:55:ALA:CB	60:Cr:62:VAL:HG21	1.96	0.96
63:CB:106:PHE:HE2	63:CB:110:ILE:HD12	1.29	0.96
66:Cd:64:ILE:HD12	66:Cd:68:LEU:HD23	1.43	0.96
67:Ce:12:ILE:H	67:Ce:12:ILE:HD13	1.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:32:GLY:HA2	68:Cf:34:TYR:CE1	2.00	0.96
72:Ck:31:ASN:O	72:Ck:32:VAL:HB	1.65	0.96
74:CC:60:HIS:O	74:CC:62:THR:N	1.98	0.96
83:Cs:17:HIS:CE1	83:Cs:56:ILE:HD11	1.96	0.96
1:Az:498:LYS:C	1:Az:500:SER:H	1.68	0.96
1:Az:672:LEU:HD12	1:Az:675:ILE:HD11	1.48	0.96
7:AM:12:MET:CG	7:AM:16:THR:HG23	1.95	0.96
8:AS:46:ARG:CZ	14:AT:50:GLU:CG	2.44	0.96
10:AN:99:ARG:HH21	10:AN:115:LEU:HD21	1.27	0.96
23:AD:177:LEU:CD2	23:AD:182:LEU:CD2	2.43	0.96
24:Ae:44:ASN:CB	24:Ae:45:VAL:HG23	1.96	0.96
26:AJ:48:PHE:HZ	26:AJ:52:LYS:NZ	1.57	0.96
29:AG:162:LEU:HD12	29:AG:162:LEU:O	1.66	0.96
29:AG:210:ALA:HA	29:AG:213:LEU:CD2	1.94	0.96
32:AW:38:LEU:HA	32:AW:41:MET:HE3	1.47	0.96
41:CO:190:ASP:HB2	41:CO:193:THR:H	1.14	0.96
46:CN:96:ARG:HG2	46:CN:100:SER:OG	1.66	0.96
48:CD:271:MET:HE3	48:CD:275:GLN:CB	1.94	0.96
56:CX:76:ILE:CD1	56:CX:104:ALA:CB	2.44	0.96
57:CY:34:LEU:CD2	57:CY:38:LEU:CB	2.43	0.96
58:CW:47:ARG:O	58:CW:55:TYR:CD1	2.17	0.96
64:CF:30:ILE:HG23	64:CF:34:ARG:HE	1.28	0.96
2:Ag:57:ARG:HD2	2:Ag:94:THR:O	1.66	0.96
2:Ag:219:TRP:CE3	2:Ag:226:HIS:HD2	1.83	0.96
3:AU:18:HIS:ND1	3:AU:93:SER:O	1.98	0.96
8:AS:8:LYS:CD	8:AS:9:PHE:CE1	2.42	0.96
12:AR:15:VAL:HG11	23:AD:210:ILE:HD12	0.96	0.96
15:AB:87:ILE:HD13	15:AB:101:HIS:HD2	0.80	0.96
16:AA:34:MET:CE	16:AA:37:TYR:CD2	2.49	0.96
17:AV:64:GLU:O	17:AV:66:ASP:N	1.99	0.96
20:Aa:28:ARG:HH11	20:Aa:30:VAL:HG23	1.29	0.96
25:Af:103:LEU:O	25:Af:103:LEU:HD23	1.65	0.96
29:AG:142:ARG:HH11	29:AG:142:ARG:HG3	1.26	0.96
31:AH:10:LYS:HZ1	31:AH:17:ASP:N	1.62	0.96
31:AH:147:LYS:HE2	31:AH:153:LEU:HD12	1.46	0.96
39:Cq:26:LYS:HG3	39:Cq:27:CYS:H	0.81	0.96
39:Cq:123:VAL:CG2	39:Cq:160:LEU:HD11	1.95	0.96
41:CO:65:ASN:OD1	41:CO:67:SER:OG	1.84	0.96
42:CL:127:PHE:CE2	42:CL:144:LEU:CB	2.48	0.96
43:CV:33:GLY:HA3	43:CV:69:LYS:HE3	1.44	0.96
47:CI:104:SER:CB	47:CI:112:GLN:HG3	1.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:20:PHE:HD2	48:CD:30:TYR:CD2	1.83	0.96
50:CR:24:LEU:HD11	50:CR:32:ILE:CG2	1.95	0.96
55:CU:48:LYS:HG2	55:CU:52:LYS:CA	1.92	0.96
57:CY:34:LEU:CD2	57:CY:38:LEU:HB3	1.96	0.96
57:CY:117:LYS:CE	57:CY:121:ARG:HH21	1.62	0.96
58:CW:80:ARG:HH21	58:CW:80:ARG:CG	1.78	0.96
58:CW:87:LEU:CA	58:CW:90:ILE:CD1	2.41	0.96
59:CZ:78:ASN:O	59:CZ:79:HIS:HB3	1.11	0.96
60:Cr:55:ALA:HB1	60:Cr:62:VAL:HG21	1.48	0.96
63:CB:174:ARG:HG3	63:CB:174:ARG:NH1	1.61	0.96
72:Ck:24:LYS:CE	72:Ck:67:LYS:HB3	1.95	0.96
74:CC:144:ILE:CD1	74:CC:249:PHE:CG	2.49	0.96
78:Co:25:GLN:CD	78:Co:91:PHE:CE2	2.44	0.96
79:CJ:83:LEU:CD2	79:CJ:132:VAL:CG2	2.44	0.96
80:CH:25:VAL:CG2	80:CH:38:PHE:HE2	1.77	0.96
80:CH:105:ILE:CG2	80:CH:111:LEU:O	2.13	0.96
80:CH:106:GLN:CB	80:CH:107:GLU:HG3	1.95	0.96
81:CE:175:VAL:O	81:CE:186:LEU:C	2.07	0.96
82:CG:83:PHE:CZ	82:CG:159:HIS:HA	1.99	0.96
1:Az:165:LEU:HD11	1:Az:305:MET:HE2	1.46	0.96
6:AX:51:VAL:CG1	6:AX:70:VAL:HG11	1.96	0.96
7:AM:77:ILE:HG23	7:AM:78:LYS:H	1.27	0.96
8:AS:137:LYS:O	8:AS:141:ARG:NH2	1.96	0.96
12:AR:44:LYS:CG	12:AR:47:ARG:CZ	2.44	0.96
22:Ac:5:ARG:N	22:Ac:5:ARG:CZ	2.29	0.96
23:AD:21:LEU:CD1	23:AD:48:ILE:CD1	2.42	0.96
26:AJ:37:LEU:CG	26:AJ:42:GLU:CB	2.44	0.96
26:AJ:127:ARG:NH1	26:AJ:145:PRO:HB2	1.81	0.96
30:AF:14:THR:CB	34:AQ:56:LEU:CB	2.42	0.96
34:AQ:42:ILE:HG21	34:AQ:51:LEU:HD23	1.48	0.96
34:AQ:85:ARG:NH1	34:AQ:117:ARG:CG	2.26	0.96
39:Cq:220:ARG:NH1	39:Cq:223:ALA:CB	2.27	0.96
40:CK:23:GLY:O	40:CK:24:ALA:HB3	1.63	0.96
40:CK:147:HIS:HB3	40:CK:148:PRO:HD3	1.48	0.96
40:CK:159:ALA:C	40:CK:163:PRO:HG3	1.90	0.96
42:CL:31:ARG:HH11	42:CL:34:ARG:HB2	1.30	0.96
42:CL:55:ILE:CD1	42:CL:120:TYR:CE1	2.47	0.96
49:CQ:110:ARG:NE	49:CQ:120:ILE:HD12	1.71	0.96
49:CQ:154:LYS:CE	49:CQ:156:PRO:CD	2.44	0.96
51:CA:104:VAL:HA	51:CA:107:MET:CE	1.95	0.96
53:CT:30:TYR:N	53:CT:30:TYR:CD2	2.28	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:118:PHE:CZ	59:CZ:130:PHE:CZ	2.53	0.96
61:Ch:10:ARG:HG3	61:Ch:10:ARG:HH11	0.81	0.96
63:CB:90:VAL:HG23	63:CB:104:THR:HG23	1.46	0.96
64:CF:197:VAL:HG12	64:CF:198:GLY:N	1.81	0.96
67:Ce:5:ARG:HG3	67:Ce:6:PRO:HD2	0.97	0.96
70:Ci:11:LEU:HD13	70:Ci:12:ASN:OD1	1.65	0.96
81:CE:65:ARG:HH11	81:CE:65:ARG:HG2	0.81	0.96
2:Ag:118:ARG:HE	2:Ag:118:ARG:HA	1.28	0.95
2:Ag:143:GLN:OE1	2:Ag:144:ASP:HB2	1.66	0.95
7:AM:85:LEU:HA	7:AM:88:TRP:HE3	1.24	0.95
10:AN:55:ARG:HH12	21:Ab:47:PHE:HD2	1.02	0.95
12:AR:83:ASN:O	16:AA:201:LEU:HD11	1.64	0.95
12:AR:120:THR:O	12:AR:121:GLN:HB2	1.61	0.95
13:AP:49:LEU:C	13:AP:51:ARG:HD2	1.91	0.95
18:AY:7:ILE:CD1	18:AY:43:LYS:CB	2.44	0.95
26:AJ:115:PHE:CD1	26:AJ:122:SER:N	2.34	0.95
29:AG:11:GLY:HA3	58:CW:80:ARG:CZ	1.96	0.95
30:AF:112:LEU:HD23	30:AF:116:ILE:HD11	1.45	0.95
33:AI:141:ARG:HD3	33:AI:144:LYS:CB	1.92	0.95
34:AQ:9:SER:CB	34:AQ:26:LYS:CE	2.43	0.95
34:AQ:47:LEU:HD23	34:AQ:81:ILE:CD1	1.95	0.95
39:Cq:25:PRO:HG3	39:Cq:92:LYS:CA	1.92	0.95
39:Cq:81:HIS:NE2	39:Cq:191:GLN:HG3	1.81	0.95
40:CK:97:ASN:HA	40:CK:98:ILE:HG12	1.47	0.95
41:CO:119:VAL:CG1	41:CO:124:LEU:CD1	2.43	0.95
46:CN:6:TYR:HE1	70:Ci:43:MET:SD	1.75	0.95
49:CQ:154:LYS:CE	49:CQ:155:ALA:C	2.38	0.95
49:CQ:154:LYS:HZ3	49:CQ:156:PRO:HD3	0.83	0.95
60:Cr:46:ARG:NE	60:Cr:69:GLY:HA3	1.81	0.95
60:Cr:122:LYS:O	60:Cr:126:VAL:HB	1.64	0.95
69:Cg:57:ARG:O	69:Cg:58:ALA:CB	2.12	0.95
70:Ci:17:VAL:CG1	70:Ci:18:THR:H	1.78	0.95
81:CE:121:VAL:CG2	81:CE:122:PRO:CD	2.30	0.95
1:Az:253:VAL:HG12	1:Az:257:MET:CE	1.95	0.95
15:AB:120:MET:HE3	15:AB:142:PHE:CZ	2.01	0.95
29:AG:157:VAL:CG1	29:AG:159:ARG:HG2	1.96	0.95
30:AF:73:THR:HG22	30:AF:93:VAL:HG21	0.96	0.95
34:AQ:8:GLN:HB3	34:AQ:99:TYR:CE1	2.01	0.95
39:Cq:23:ASP:C	39:Cq:24:TYR:HD2	1.73	0.95
49:CQ:187:LYS:CE	49:CQ:188:ASN:HD22	1.76	0.95
54:CP:57:CYS:SG	54:CP:72:GLN:OE1	2.24	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:20:ARG:HG3	67:Ce:77:PHE:CE1	1.84	0.95
60:Cr:55:ALA:CB	60:Cr:62:VAL:CG2	2.43	0.95
63:CB:140:GLU:OE1	63:CB:144:LYS:CB	2.13	0.95
63:CB:298:LEU:N	63:CB:298:LEU:C	2.23	0.95
65:Cc:11:LEU:HA	65:Cc:12:GLU:CG	1.96	0.95
67:Ce:37:LYS:HG3	67:Ce:39:ARG:NH2	1.81	0.95
67:Ce:39:ARG:HH21	67:Ce:39:ARG:CG	1.79	0.95
71:Cj:54:LYS:CE	71:Cj:58:THR:CG2	2.42	0.95
77:Cp:32:SER:HB2	77:Cp:70:THR:HG22	1.48	0.95
81:CE:121:VAL:CG1	81:CE:122:PRO:HD2	1.96	0.95
82:CG:163:PRO:CG	82:CG:166:LEU:CD1	2.43	0.95
2:Ag:7:LEU:HD12	2:Ag:310:TRP:CD1	2.00	0.95
2:Ag:46:THR:O	2:Ag:47:ARG:HB3	1.17	0.95
7:AM:89:VAL:HG21	7:AM:109:VAL:HG11	1.46	0.95
12:AR:22:THR:HG22	12:AR:73:LEU:CD1	1.95	0.95
15:AB:125:VAL:HG11	15:AB:173:THR:CG2	1.95	0.95
17:AV:81:LYS:N	17:AV:81:LYS:CD	2.29	0.95
22:Ac:60:GLU:OE2	30:AF:204:ARG:CZ	2.14	0.95
23:AD:132:LYS:CB	23:AD:191:PRO:CG	2.16	0.95
29:AG:162:LEU:HD23	29:AG:172:LYS:HE2	1.46	0.95
30:AF:91:ARG:NH1	30:AF:94:LYS:HB3	1.76	0.95
33:AI:62:VAL:CG2	33:AI:75:LYS:CE	2.45	0.95
33:AI:107:THR:OG1	33:AI:108:PRO:HD3	1.66	0.95
34:AQ:135:PRO:HD3	34:AQ:141:TYR:CD1	2.02	0.95
38:Cz:143:ASN:H	38:Cz:146:ALA:HB3	1.31	0.95
43:CV:39:ILE:HG23	43:CV:61:VAL:CG1	1.97	0.95
47:CI:21:ARG:NH1	47:CI:22:PHE:CE1	2.33	0.95
48:CD:47:PRO:CB	48:CD:66:TYR:CD1	2.31	0.95
49:CQ:13:VAL:O	49:CQ:13:VAL:HG12	1.64	0.95
49:CQ:161:SER:OG	49:CQ:162:HIS:ND1	1.98	0.95
50:CR:4:LEU:HD11	50:CR:33:ALA:CA	1.96	0.95
51:CA:28:ARG:HB3	51:CA:123:ARG:HG3	1.47	0.95
52:CS:75:VAL:HG13	52:CS:76:LYS:H	0.97	0.95
52:CS:98:ARG:CD	52:CS:145:PHE:CG	2.49	0.95
57:CY:3:PHE:CZ	74:CC:222:ARG:CZ	2.49	0.95
57:CY:55:VAL:HG13	57:CY:104:VAL:HG12	1.45	0.95
58:CW:80:ARG:CD	58:CW:81:ALA:H	1.78	0.95
60:Cr:122:LYS:O	60:Cr:126:VAL:N	1.99	0.95
61:Ch:73:TYR:CB	61:Ch:79:LYS:HE3	1.91	0.95
67:Ce:5:ARG:CG	67:Ce:93:LYS:CB	2.44	0.95
69:Cg:8:ARG:CB	69:Cg:34:TYR:HE2	1.75	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:Cl:37:TYR:O	73:Cl:38:ASN:C	2.04	0.95
82:CG:255:LYS:HE2	82:CG:259:LYS:CD	1.95	0.95
1:Az:75:ILE:HG22	1:Az:77:LEU:HD12	1.47	0.95
1:Az:189:ILE:CG2	1:Az:203:ILE:HG13	1.95	0.95
2:Ag:55:PRO:HG2	34:AQ:102:GLU:OE1	1.66	0.95
7:AM:13:ASP:O	7:AM:16:THR:N	1.98	0.95
11:AL:96:ILE:O	11:AL:100:ASN:HA	1.67	0.95
16:AA:76:VAL:CG2	16:AA:90:PHE:CD2	2.48	0.95
24:Ae:50:GLY:O	24:Ae:51:LYS:CG	2.14	0.95
26:AJ:28:GLU:OE1	26:AJ:40:LYS:CD	2.14	0.95
31:AH:37:LYS:HE2	31:AH:41:ARG:NH1	1.81	0.95
33:AI:161:LEU:CD1	33:AI:199:LEU:HD12	1.85	0.95
34:AQ:109:LYS:HG3	34:AQ:113:ILE:HD11	1.48	0.95
38:Cz:80:VAL:HG13	38:Cz:148:VAL:HG23	1.48	0.95
39:Cq:123:VAL:HG21	39:Cq:160:LEU:HD11	1.48	0.95
39:Cq:257:TYR:CG	84:Cv:45:GLU:OE1	2.19	0.95
40:CK:131:GLU:OE2	40:CK:155:ILE:HD12	1.65	0.95
42:CL:148:THR:HB	42:CL:150:LEU:CD2	1.96	0.95
49:CQ:8:ASN:HD22	49:CQ:8:ASN:N	1.65	0.95
58:CW:87:LEU:HD23	58:CW:90:ILE:HD13	1.45	0.95
60:Cr:55:ALA:N	60:Cr:56:ASP:CB	2.29	0.95
63:CB:189:THR:CG2	63:CB:192:GLU:HB2	1.96	0.95
66:Cd:57:MET:CB	66:Cd:90:ARG:HH11	1.79	0.95
74:CC:124:ILE:CD1	74:CC:237:ILE:CD1	2.44	0.95
78:Co:33:LEU:O	78:Co:34:TYR:CG	2.19	0.95
78:Co:83:LEU:HD13	78:Co:83:LEU:C	1.92	0.95
5:AO:47:LEU:C	15:AB:67:PHE:CD1	2.44	0.95
8:AS:47:LYS:HZ2	8:AS:78:LYS:HB2	1.31	0.95
19:AZ:92:LEU:HD21	19:AZ:109:TYR:CE1	2.01	0.95
23:AD:48:ILE:CG2	23:AD:86:LEU:HG	1.95	0.95
26:AJ:37:LEU:CD2	26:AJ:42:GLU:HB2	1.96	0.95
27:AE:166:THR:O	27:AE:168:LYS:HD3	1.66	0.95
28:AC:153:GLY:O	28:AC:156:ILE:CG2	2.13	0.95
33:AI:21:TYR:CE2	33:AI:22:HIS:HD2	1.84	0.95
39:Cq:198:ILE:C	83:Cs:42:PHE:CE1	2.45	0.95
39:Cq:253:VAL:CA	39:Cq:268:PHE:CZ	2.48	0.95
40:CK:10:ILE:HB	40:CK:66:ASN:HA	1.46	0.95
45:Ca:58:MET:C	49:CQ:172:ARG:NH2	2.20	0.95
45:Ca:103:VAL:HG12	45:Ca:108:TYR:HB2	1.49	0.95
53:CT:29:THR:C	53:CT:30:TYR:HD2	1.73	0.95
55:CU:23:LEU:HD23	55:CU:110:TYR:O	1.67	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:57:GLN:N	56:CX:58:PRO:CD	2.29	0.95
58:CW:88:ALA:O	58:CW:91:MET:SD	2.24	0.95
60:Cr:16:PHE:CZ	60:Cr:28:GLU:OE2	2.19	0.95
60:Cr:60:VAL:CG2	60:Cr:85:ASN:OD1	2.15	0.95
63:CB:219:VAL:CG1	63:CB:345:LEU:CD2	2.27	0.95
66:Cd:96:GLU:OE1	66:Cd:96:GLU:HA	1.63	0.95
74:CC:209:ILE:CD1	74:CC:227:ILE:HD11	1.96	0.95
77:Cp:29:ILE:HG22	77:Cp:69:TRP:CD1	2.00	0.95
78:Co:76:ASN:H	78:Co:78:ARG:CG	1.78	0.95
81:CE:121:VAL:HG13	81:CE:122:PRO:CD	1.96	0.95
81:CE:264:ILE:HG21	81:CE:267:LEU:H	1.31	0.95
1:Az:745:TYR:CG	1:Az:815:ASP:HB2	2.01	0.95
2:Ag:248:LEU:O	2:Ag:259:TRP:CZ3	2.19	0.95
3:AU:67:LYS:CE	3:AU:78:ASP:OD1	2.13	0.95
4:AK:3:MET:CE	4:AK:8:ARG:CZ	2.31	0.95
4:AK:34:GLU:O	4:AK:35:LEU:CB	2.11	0.95
4:AK:83:LEU:HD12	4:AK:85:LEU:HD21	1.45	0.95
8:AS:113:ARG:NH1	13:AP:114:HIS:NE2	2.13	0.95
10:AN:53:ILE:HD13	21:Ab:52:THR:HG21	1.49	0.95
13:AP:59:ARG:HD3	13:AP:76:VAL:HG13	1.47	0.95
14:AT:77:LYS:HB2	14:AT:94:ARG:CG	1.95	0.95
16:AA:143:PRO:HG3	17:AV:32:ILE:HG23	1.45	0.95
26:AJ:16:PRO:HD2	26:AJ:44:TRP:CZ2	2.01	0.95
29:AG:32:MET:HE2	29:AG:63:MET:SD	2.06	0.95
39:Cq:135:THR:HG22	39:Cq:152:ILE:HG12	1.49	0.95
39:Cq:198:ILE:CB	83:Cs:42:PHE:HZ	1.79	0.95
40:CK:10:ILE:HG13	40:CK:67:ARG:HA	1.47	0.95
41:CO:16:LEU:HD12	41:CO:43:ILE:HG12	1.45	0.95
41:CO:128:ARG:CZ	52:CS:161:ARG:HH21	1.79	0.95
54:CP:6:LEU:CD2	54:CP:116:HIS:CE1	2.50	0.95
59:CZ:26:VAL:CB	59:CZ:89:ILE:HD11	1.95	0.95
59:CZ:128:LYS:NZ	82:CG:33:GLU:OE1	1.99	0.95
61:Ch:73:TYR:CD1	61:Ch:79:LYS:CG	2.50	0.95
67:Ce:5:ARG:CG	67:Ce:6:PRO:CD	2.33	0.95
68:Cf:7:SER:CB	81:CE:283:PRO:HG3	1.97	0.95
70:Ci:11:LEU:N	70:Ci:11:LEU:CD1	2.29	0.95
75:Cm:83:ARG:O	75:Cm:87:GLN:CG	2.15	0.95
1:Az:845:LYS:CE	1:Az:846:GLU:HG2	1.97	0.95
2:Ag:194:TYR:CZ	2:Ag:212:LYS:CD	2.41	0.95
8:AS:39:ARG:NE	14:AT:38:LYS:CE	2.06	0.95
10:AN:19:ARG:HH12	21:Ab:84:HIS:C	1.73	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:99:ASP:HA	12:AR:119:VAL:HG13	1.49	0.95
14:AT:102:ARG:NH2	14:AT:105:GLN:OE1	2.00	0.95
18:AY:12:PHE:CZ	18:AY:21:LYS:CB	2.49	0.95
21:Ab:10:PRO:HD2	21:Ab:15:GLU:OE2	1.67	0.95
26:AJ:37:LEU:CG	26:AJ:42:GLU:HB3	1.96	0.95
26:AJ:169:ARG:CB	26:AJ:170:PRO:HD2	1.96	0.95
27:AE:153:LEU:HD23	29:AG:216:ARG:NH1	1.81	0.95
40:CK:123:ARG:CG	40:CK:124:GLU:H	1.75	0.95
42:CL:20:ARG:H	42:CL:20:ARG:CD	1.77	0.95
49:CQ:6:ARG:HH22	64:CF:113:ARG:CA	1.80	0.95
49:CQ:72:LEU:O	49:CQ:75:ARG:CG	2.14	0.95
51:CA:173:GLY:O	77:Cp:69:TRP:HZ3	1.26	0.95
58:CW:86:SER:C	58:CW:90:ILE:HG13	1.92	0.95
60:Cr:86:ALA:HB1	60:Cr:93:ILE:CD1	1.88	0.95
63:CB:298:LEU:C	63:CB:300:LYS:HG2	1.92	0.95
64:CF:161:LYS:HG3	64:CF:209:TRP:CZ3	2.02	0.95
69:Cg:42:PRO:O	69:Cg:52:ARG:CA	2.02	0.95
74:CC:85:HIS:C	74:CC:87:SER:H	1.70	0.95
74:CC:283:LYS:NZ	74:CC:283:LYS:CB	2.30	0.95
77:Cp:27:LYS:CE	77:Cp:28:LYS:HA	1.97	0.95
1:Az:751:CYS:HB2	1:Az:755:VAL:CG2	1.95	0.95
1:Az:791:ASN:C	1:Az:794:PHE:HE1	1.74	0.95
3:Au:41:ARG:O	3:Au:45:GLU:HB2	1.65	0.95
4:AK:16:PHE:HD2	4:AK:79:LEU:HB3	1.29	0.95
6:AX:142:ARG:CB	6:AX:142:ARG:NH1	2.28	0.95
8:AS:81:ASP:O	8:AS:87:GLN:NE2	2.00	0.95
14:AT:63:HIS:O	14:AT:67:ARG:HD2	1.67	0.95
15:AB:160:GLN:NE2	15:AB:205:TYR:HD1	1.58	0.95
16:AA:186:ARG:HH11	16:AA:186:ARG:CG	1.78	0.95
19:AZ:112:ASN:O	19:AZ:113:THR:CG2	2.13	0.95
20:Aa:10:ARG:HG3	20:Aa:33:ASP:O	1.67	0.95
24:Ae:31:ARG:NH2	24:Ae:31:ARG:CB	2.30	0.95
26:AJ:17:ARG:C	26:AJ:18:ARG:HG2	1.89	0.95
26:AJ:127:ARG:HH11	26:AJ:127:ARG:HG3	0.79	0.95
28:AC:157:LEU:CA	28:AC:160:LEU:HD21	1.94	0.95
32:AW:85:ASP:O	32:AW:89:TRP:HD1	1.47	0.95
39:Cq:24:TYR:N	39:Cq:24:TYR:CD2	2.30	0.95
39:Cq:26:LYS:HB2	39:Cq:194:ASP:CG	1.91	0.95
39:Cq:233:THR:HA	84:Cu:1:MET:CG	1.97	0.95
40:CK:62:LEU:HD11	40:CK:73:VAL:CB	1.96	0.95
40:CK:95:GLN:O	40:CK:96:LYS:CD	2.13	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:14:TYR:O	44:CM:56:GLN:HG2	1.66	0.95
44:CM:25:VAL:HG11	44:CM:38:VAL:HG12	0.96	0.95
46:CN:36:LEU:HD22	46:CN:109:HIS:HD2	1.30	0.95
47:CI:9:TYR:CE1	47:CI:97:ILE:CG2	2.49	0.95
47:CI:92:HIS:CD2	47:CI:94:PHE:CZ	2.55	0.95
49:CQ:154:LYS:HB2	49:CQ:155:ALA:O	1.64	0.95
53:CT:40:VAL:CG1	53:CT:96:ILE:HG22	1.81	0.95
58:CW:21:TYR:CE2	58:CW:23:ARG:HD3	2.02	0.95
59:CZ:92:ASP:CA	59:CZ:117:LYS:NZ	2.21	0.95
63:CB:297:LYS:CD	63:CB:300:LYS:HZ3	1.79	0.95
65:Cc:11:LEU:CA	65:Cc:12:GLU:CB	2.45	0.95
69:Cg:7:TYR:HE1	69:Cg:20:THR:CG2	1.79	0.95
79:CJ:163:MET:HE1	79:CJ:174:ILE:HG12	1.48	0.95
81:CE:149:ILE:HG23	81:CE:197:THR:HB	1.48	0.95
83:Ct:43:TRP:O	83:Ct:47:PHE:HD2	1.48	0.95
2:Ag:277:THR:CG2	2:Ag:278:SER:N	2.30	0.95
4:AK:84:HIS:CE1	4:AK:85:LEU:HA	2.01	0.95
16:AA:94:THR:HG21	16:AA:182:VAL:HG21	1.45	0.95
16:AA:186:ARG:HG2	16:AA:186:ARG:NH1	1.66	0.95
18:AY:99:LYS:N	18:AY:99:LYS:CE	2.29	0.95
23:AD:70:THR:CG2	23:AD:86:LEU:HD13	1.96	0.95
26:AJ:110:LEU:CD1	26:AJ:130:ILE:HD11	1.78	0.95
27:AE:151:ASP:HB3	29:AG:212:LEU:HD22	1.46	0.95
29:AG:76:LEU:CD2	29:AG:92:ARG:CG	2.40	0.95
31:AH:122:LEU:HD13	31:AH:123:THR:CA	1.95	0.95
34:AQ:93:VAL:HG13	34:AQ:105:LYS:HE2	1.31	0.95
39:Cq:183:PHE:CD2	39:Cq:183:PHE:N	2.30	0.95
41:CO:27:VAL:HG12	41:CO:98:ALA:CB	1.97	0.95
47:CI:181:PHE:CE1	47:CI:190:LEU:HD13	2.01	0.95
48:CD:57:ASN:C	48:CD:58:ARG:HD3	1.90	0.95
51:CA:116:LEU:HD11	51:CA:126:LEU:CD1	1.96	0.95
51:CA:118:GLU:HG3	51:CA:119:LYS:N	1.80	0.95
56:CX:117:TYR:HB2	56:CX:119:ILE:CG2	1.96	0.95
60:Cr:119:ARG:HG2	81:CE:112:MET:HE3	1.49	0.95
60:Cr:122:LYS:O	60:Cr:126:VAL:CB	2.13	0.95
61:Ch:87:LYS:CA	71:Cj:73:ARG:HH22	1.79	0.95
63:CB:83:PRO:O	63:CB:167:GLN:NE2	1.97	0.95
74:CC:168:VAL:HG23	74:CC:224:ILE:HD11	1.49	0.95
74:CC:310:HIS:HB2	74:CC:311:ARG:CG	1.96	0.95
81:CE:165:LEU:HD12	81:CE:174:LEU:HG	1.48	0.95
81:CE:274:VAL:CG1	81:CE:275:PHE:N	2.28	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:285:LYS:C	81:CE:287:VAL:HG12	1.91	0.95
1:Az:540:GLU:OE1	1:Az:540:GLU:HA	1.62	0.95
1:Az:794:PHE:N	1:Az:794:PHE:CD1	2.26	0.95
2:Ag:26:GLN:HB3	2:Ag:74:ASP:O	1.64	0.95
5:AO:31:CYS:SG	5:AO:93:LEU:HB3	2.07	0.95
7:AM:98:GLY:O	7:AM:100:PRO:CD	2.13	0.95
10:AN:22:VAL:HB	10:AN:23:PRO:CA	1.96	0.95
11:AL:17:PHE:CE1	11:AL:18:GLN:HB2	2.01	0.95
13:AP:127:LYS:HZ1	13:AP:128:HIS:N	1.63	0.95
15:AB:57:ILE:O	15:AB:60:ASP:N	1.99	0.95
33:AI:62:VAL:HB	33:AI:75:LYS:HE2	1.49	0.95
34:AQ:135:PRO:CG	34:AQ:141:TYR:HE1	1.78	0.95
38:Cz:67:VAL:CG2	38:Cz:82:ILE:HD13	1.97	0.95
40:CK:125:LEU:CD1	40:CK:163:PRO:CB	2.44	0.95
41:CO:66:PRO:HD2	41:CO:67:SER:H	1.30	0.95
42:CL:140:SER:HA	42:CL:143:GLU:HG3	1.47	0.95
44:CM:33:GLN:HE22	80:CH:61:TRP:CD1	1.85	0.95
46:CN:135:ILE:HG23	46:CN:142:ILE:HD13	1.48	0.95
50:CR:94:THR:HA	50:CR:97:ARG:CD	1.95	0.95
51:CA:174:ARG:C	77:Cp:69:TRP:HH2	1.75	0.95
52:CS:82:LEU:CD1	52:CS:124:ILE:CG2	2.17	0.95
53:CT:19:PHE:CE2	53:CT:20:ARG:HG3	2.01	0.95
59:CZ:22:LYS:HD3	59:CZ:129:TRP:CH2	2.02	0.95
65:Cc:81:LEU:C	65:Cc:91:VAL:HG21	1.91	0.95
66:Cd:60:PRO:CB	66:Cd:100:ASN:HD22	1.80	0.95
67:Ce:12:ILE:CD1	67:Ce:12:ILE:N	2.29	0.95
70:Ci:17:VAL:HG12	70:Ci:18:THR:N	1.79	0.95
74:CC:24:LEU:N	74:CC:24:LEU:HD23	1.81	0.95
78:Co:43:ARG:HH22	85:A5:294:G:C4'	1.79	0.95
82:CG:39:PHE:CE1	82:CG:47:PRO:HD3	2.01	0.95
1:Az:825:PHE:O	1:Az:826:ASP:C	1.94	0.94
6:AX:52:LEU:CD2	6:AX:71:ARG:HB3	1.94	0.94
11:AL:149:ALA:HB1	11:AL:156:GLN:CG	1.77	0.94
19:AZ:77:LEU:O	19:AZ:78:LYS:HG2	1.66	0.94
34:AQ:34:VAL:HG23	34:AQ:39:LEU:HD23	0.95	0.94
36:B2:127:C:N4	36:B2:180:G:O2'	2.00	0.94
50:CR:94:THR:HA	50:CR:97:ARG:HD3	1.48	0.94
54:CP:40:HIS:HB3	54:CP:43:LYS:HB2	1.49	0.94
59:CZ:33:THR:CG2	59:CZ:40:HIS:CE1	2.50	0.94
63:CB:133:TYR:CD1	63:CB:136:LYS:HD2	2.02	0.94
66:Cd:17:ILE:O	66:Cd:17:ILE:HG23	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Cg:5:LEU:HD21	69:Cg:22:LEU:CD1	1.85	0.94
74:CC:8:ILE:HD13	74:CC:149:GLU:OE1	1.67	0.94
74:CC:110:ARG:HD2	74:CC:113:ARG:HH21	1.32	0.94
74:CC:174:LEU:O	74:CC:175:LYS:HB2	1.65	0.94
74:CC:313:VAL:HA	74:CC:314:LEU:HD21	1.48	0.94
80:CH:89:ARG:NH2	80:CH:91:LYS:CE	2.30	0.94
81:CE:83:LYS:HZ2	81:CE:86:GLU:C	1.67	0.94
82:CG:103:ARG:HG2	82:CG:193:LEU:O	1.66	0.94
82:CG:146:LEU:CD1	82:CG:147:VAL:HG23	1.97	0.94
1:Az:21:ASN:ND2	1:Az:469:ILE:CD1	2.29	0.94
1:Az:160:MET:HE3	1:Az:178:PHE:HE2	1.25	0.94
1:Az:240:GLY:O	1:Az:243:GLN:CG	2.15	0.94
1:Az:825:PHE:HZ	1:Az:849:PRO:HD3	1.04	0.94
12:AR:13:ALA:CA	12:AR:54:VAL:HG22	1.97	0.94
12:AR:121:GLN:C	12:AR:121:GLN:HE21	1.74	0.94
17:AV:18:SER:OG	17:AV:72:LEU:HD11	1.67	0.94
20:Aa:58:VAL:CG1	20:Aa:59:PHE:H	1.56	0.94
22:Ac:67:ARG:O	22:Ac:68:LEU:HD23	1.67	0.94
25:Af:106:TYR:CZ	25:Af:131:PHE:CZ	2.54	0.94
26:Aj:15:THR:CG2	26:Aj:44:TRP:HZ3	1.80	0.94
26:Aj:54:ARG:NH2	28:AC:201:GLY:HA3	1.82	0.94
26:Aj:61:LEU:HD13	26:Aj:94:LEU:HD13	1.48	0.94
26:Aj:122:SER:OG	26:Aj:124:HIS:CB	2.15	0.94
26:Aj:138:ARG:NH1	26:Aj:156:HIS:ND1	2.11	0.94
28:AC:259:THR:HG23	28:AC:261:PHE:H	1.20	0.94
31:AH:15:LYS:CB	31:AH:16:PRO:HD2	1.97	0.94
31:AH:163:GLN:OE1	31:AH:189:PHE:HE2	1.37	0.94
32:AW:104:LEU:HD11	32:AW:106:THR:CG2	1.97	0.94
38:Cz:209:THR:C	38:Cz:210:MET:HA	1.93	0.94
39:Cq:12:ASN:O	39:Cq:16:LYS:CD	2.14	0.94
41:CO:88:LEU:CD1	41:CO:99:LEU:CD2	2.43	0.94
42:CL:55:ILE:HD11	42:CL:120:TYR:CG	2.02	0.94
43:CV:89:ARG:CG	43:CV:95:PHE:CE2	2.49	0.94
48:CD:27:LYS:CE	79:Cj:147:ARG:NE	2.28	0.94
49:CQ:61:LEU:HD11	49:CQ:139:LEU:C	1.92	0.94
49:CQ:172:ARG:O	49:CQ:173:LYS:HB2	1.65	0.94
51:CA:189:TYR:CD1	51:CA:195:CYS:SG	2.60	0.94
52:CS:30:MET:SD	52:CS:47:PHE:HB2	2.07	0.94
53:CT:17:ARG:HH21	53:CT:17:ARG:CG	1.80	0.94
56:CX:52:LEU:HD12	56:CX:54:LEU:HD23	1.47	0.94
63:CB:381:THR:CG2	63:CB:383:GLU:HG3	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Cd:16:ALA:O	66:Cd:17:ILE:HG22	1.66	0.94
66:Cd:24:GLU:CG	66:Cd:122:VAL:CG2	2.45	0.94
66:Cd:96:GLU:O	66:Cd:98:SER:N	1.99	0.94
67:Ce:50:LYS:CE	68:Cf:20:ASN:HD21	1.78	0.94
74:CC:122:TYR:CD1	74:CC:280:PRO:HG2	2.00	0.94
74:CC:144:ILE:HG23	74:CC:147:VAL:HG23	0.96	0.94
81:CE:106:VAL:HB	81:CE:107:VAL:HA	1.47	0.94
84:Cu:7:TYR:CZ	84:Cu:42:VAL:HG11	2.02	0.94
1:Az:167:LEU:HA	80:CH:100:PRO:HG2	1.46	0.94
1:Az:815:ASP:OD2	1:Az:816:HIS:CE1	2.21	0.94
2:Ag:172:LYS:NZ	2:Ag:192:THR:HG22	1.82	0.94
22:Ac:67:ARG:CG	22:Ac:68:LEU:N	2.30	0.94
23:AD:226:GLN:HE21	23:AD:226:GLN:CA	1.80	0.94
34:AQ:16:LYS:HD2	34:AQ:17:LYS:N	1.82	0.94
39:Cq:222:VAL:CG2	84:Cu:8:LEU:HD12	1.96	0.94
40:CK:116:MET:HB2	40:CK:117:ARG:HH21	1.28	0.94
41:CO:57:PHE:CZ	41:CO:82:ARG:NH2	2.35	0.94
41:CO:192:TYR:CG	44:CM:122:ILE:HD13	2.02	0.94
46:CN:68:ARG:NH1	46:CN:125:SER:O	1.99	0.94
48:CD:27:LYS:HE2	79:CJ:147:ARG:HE	0.92	0.94
50:CR:64:ARG:HA	50:CR:67:THR:OG1	1.66	0.94
51:CA:242:ARG:NH1	51:CA:247:ARG:NH2	2.09	0.94
54:CP:57:CYS:SG	54:CP:83:TRP:CE2	2.60	0.94
61:Ch:73:TYR:CE2	61:Ch:80:PRO:HD3	2.01	0.94
63:CB:10:ARG:NH1	63:CB:265:SER:HB2	1.82	0.94
63:CB:40:PRO:HB3	63:CB:42:HIS:HD2	1.32	0.94
63:CB:297:LYS:HD2	63:CB:300:LYS:HZ1	1.23	0.94
66:Cd:42:ALA:HB1	66:Cd:73:TRP:NE1	1.82	0.94
67:Ce:35:TRP:NE1	67:Ce:56:PRO:CG	2.30	0.94
68:Cf:5:LEU:HD23	85:A5:4948:C:N4	1.82	0.94
71:Cj:64:MET:CE	71:Cj:68:LYS:HA	1.96	0.94
81:CE:56:ARG:CD	81:CE:65:ARG:HH12	1.70	0.94
81:CE:83:LYS:NZ	81:CE:86:GLU:O	1.87	0.94
81:CE:145:THR:HG22	81:CE:148:THR:HB	1.49	0.94
1:Az:420:LEU:N	1:Az:420:LEU:CD2	2.29	0.94
1:Az:613:LEU:CD2	1:Az:613:LEU:N	2.30	0.94
1:Az:743:PRO:HG3	1:Az:817:TRP:CE3	2.02	0.94
7:AM:124:ILE:HA	7:AM:127:TYR:HD2	1.28	0.94
11:AL:149:ALA:CA	11:AL:156:GLN:HE21	1.79	0.94
13:AP:12:PHE:CZ	79:CJ:88:LYS:CE	2.50	0.94
13:AP:41:GLN:HE21	13:AP:84:ILE:HB	0.78	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:41:GLN:HE22	13:AP:45:LEU:HG	0.80	0.94
17:AV:81:LYS:N	17:AV:81:LYS:CE	2.30	0.94
23:AD:70:THR:HG22	23:AD:86:LEU:CD1	1.96	0.94
27:AE:70:ILE:CG1	27:AE:92:ILE:HD11	1.84	0.94
29:AG:157:VAL:CG1	29:AG:159:ARG:CG	2.45	0.94
32:AW:42:MET:HE3	32:AW:50:PHE:CD2	2.01	0.94
39:Cq:222:VAL:HG22	84:Cu:8:LEU:CD1	1.98	0.94
39:Cq:254:GLU:OE1	84:Cv:54:VAL:HG13	1.59	0.94
40:CK:114:ARG:HA	40:CK:133:LEU:HD12	1.49	0.94
41:CO:16:LEU:HD12	41:CO:43:ILE:HD11	1.19	0.94
48:CD:27:LYS:CE	79:CJ:147:ARG:HE	1.80	0.94
51:CA:227:ARG:HG2	51:CA:227:ARG:NH1	1.64	0.94
52:CS:164:LYS:CG	52:CS:165:PRO:HD2	1.98	0.94
63:CB:108:GLU:CG	63:CB:137:TRP:CG	2.32	0.94
65:Cc:21:VAL:HG13	65:Cc:99:PRO:HB3	1.46	0.94
74:CC:133:LEU:HD21	74:CC:136:LEU:HG	1.49	0.94
74:CC:144:ILE:CD1	74:CC:249:PHE:CD1	2.49	0.94
81:CE:45:SER:CB	81:CE:49:VAL:HG12	1.97	0.94
2:Ag:248:LEU:O	2:Ag:259:TRP:CE3	2.20	0.94
8:AS:8:LYS:CB	8:AS:9:PHE:CD1	2.37	0.94
16:AA:21:ALA:HB3	16:AA:173:LEU:CD1	1.78	0.94
21:Ab:8:LEU:HD21	32:AW:62:VAL:CG2	1.85	0.94
22:Ac:15:THR:HG22	22:Ac:33:GLU:CG	1.97	0.94
30:AF:21:GLY:O	30:AF:22:LYS:HG3	1.67	0.94
30:AF:71:ARG:CG	30:AF:71:ARG:HH21	1.80	0.94
31:AH:145:ARG:HH11	31:AH:155:LYS:HZ2	1.14	0.94
38:Cz:36:ILE:HD11	38:Cz:201:VAL:HG13	1.48	0.94
39:Cq:60:MET:HE1	39:Cq:88:PHE:CD2	2.03	0.94
40:CK:20:GLY:HA3	40:CK:92:ARG:HH22	1.31	0.94
42:CL:31:ARG:HH11	42:CL:34:ARG:CB	1.79	0.94
42:CL:50:PRO:N	42:CL:51:ALA:CB	2.30	0.94
44:CM:77:TRP:HD1	44:CM:82:ILE:HG13	1.12	0.94
50:CR:28:GLU:HG3	50:CR:49:LEU:HD22	1.45	0.94
50:CR:158:GLN:O	50:CR:161:ALA:HB3	1.67	0.94
51:CA:24:LYS:N	51:CA:24:LYS:CE	2.30	0.94
51:CA:77:ILE:HD12	51:CA:128:ARG:NH2	1.79	0.94
52:CS:17:LEU:N	52:CS:59:GLY:HA2	1.82	0.94
52:CS:137:CYS:SG	52:CS:143:LYS:HB2	2.07	0.94
63:CB:115:LYS:HZ3	63:CB:122:TRP:HZ3	1.11	0.94
69:Cg:41:ALA:HB1	69:Cg:52:ARG:HD2	1.50	0.94
74:CC:85:HIS:CA	74:CC:87:SER:N	2.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:65:LYS:O	78:Co:66:ILE:HG22	1.63	0.94
80:CH:89:ARG:NH2	80:CH:91:LYS:HE2	1.81	0.94
81:CE:75:ALA:HB1	81:CE:76:ALA:CB	1.97	0.94
81:CE:148:THR:C	81:CE:163:VAL:CG1	2.34	0.94
81:CE:208:ILE:N	81:CE:209:PRO:HD2	1.71	0.94
84:Cu:3:TYR:O	84:Cu:7:TYR:HD2	1.40	0.94
3:AU:97:ILE:HG23	3:AU:101:ILE:HD11	1.50	0.94
5:AO:52:THR:O	5:AO:53:ILE:CG2	2.15	0.94
27:AE:19:MET:CE	36:B2:846:G:C2'	2.45	0.94
29:AG:27:PHE:CZ	29:AG:41:LEU:CD1	2.51	0.94
34:AQ:24:HIS:CD2	34:AQ:69:ARG:HB2	2.03	0.94
39:Cq:25:PRO:CG	39:Cq:92:LYS:HG3	1.96	0.94
40:CK:10:ILE:HG21	40:CK:66:ASN:C	1.91	0.94
49:CQ:103:LEU:HG	49:CQ:123:PHE:CE2	2.02	0.94
52:CS:164:LYS:HG3	52:CS:165:PRO:HD2	1.49	0.94
59:CZ:76:ASN:ND2	59:CZ:78:ASN:CB	2.30	0.94
63:CB:153:MET:CE	63:CB:160:ILE:CG1	2.43	0.94
66:Cd:21:VAL:HG12	66:Cd:22:THR:N	1.81	0.94
72:Ck:31:ASN:HB3	72:Ck:46:VAL:HG11	1.48	0.94
81:CE:65:ARG:O	81:CE:69:TYR:HD2	1.48	0.94
81:CE:140:LEU:HG	81:CE:167:GLN:OE1	1.67	0.94
83:Cs:21:VAL:HG12	83:Cs:27:LYS:CD	1.93	0.94
85:A5:655:C:H2'	85:A5:656:C:H5''	1.47	0.94
1:Az:420:LEU:HD23	1:Az:420:LEU:C	1.91	0.94
2:Ag:172:LYS:CG	2:Ag:191:HIS:O	2.15	0.94
2:Ag:219:TRP:CZ3	2:Ag:226:HIS:CD2	2.55	0.94
5:AO:17:LEU:CD2	15:AB:30:TRP:HE1	1.79	0.94
8:AS:8:LYS:O	19:AZ:49:LEU:HD22	1.67	0.94
8:AS:31:THR:HA	8:AS:36:VAL:HG22	1.44	0.94
11:AL:19:ASN:ND2	33:AI:69:SER:HB3	1.67	0.94
16:AA:17:LYS:N	16:AA:17:LYS:CE	2.31	0.94
25:Af:144:CYS:SG	25:Af:147:THR:CG2	2.55	0.94
29:AG:157:VAL:HG13	29:AG:158:VAL:N	1.63	0.94
35:Ah:155:ARG:N	35:Ah:156:PRO:CD	2.30	0.94
41:CO:12:ARG:HD2	41:CO:37:ARG:CZ	1.96	0.94
41:CO:192:TYR:HB3	44:CM:122:ILE:CD1	1.98	0.94
60:Cr:44:ILE:CG2	60:Cr:45:HIS:H	1.80	0.94
63:CB:195:ASP:HA	63:CB:198:ARG:CD	1.96	0.94
66:Cd:57:MET:CG	66:Cd:90:ARG:HH11	1.79	0.94
67:Ce:3:ALA:CB	67:Ce:121:ARG:CD	2.26	0.94
67:Ce:38:PRO:HB2	67:Ce:43:ASN:ND2	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:124:GLY:O	82:CG:125:LYS:CB	2.15	0.94
1:Az:162:ARG:O	1:Az:166:GLU:HG3	1.66	0.94
1:Az:271:GLY:O	1:Az:272:LYS:HD3	1.68	0.94
2:Ag:2:THR:O	2:Ag:2:THR:HG23	1.67	0.94
2:Ag:144:ASP:O	2:Ag:145:GLU:HG2	1.67	0.94
2:Ag:278:SER:OG	2:Ag:279:SER:HA	1.68	0.94
4:AK:65:ARG:NH1	4:AK:65:ARG:CB	2.31	0.94
7:AM:94:ILE:CG2	7:AM:95:ASP:N	2.17	0.94
9:Ad:5:GLN:HG2	9:Ad:7:TYR:HE2	1.26	0.94
11:AL:125:ILE:HB	11:AL:146:THR:HG21	1.49	0.94
11:AL:158:PHE:CD2	11:AL:158:PHE:N	2.29	0.94
12:AR:19:LYS:CD	23:AD:212:GLU:HB3	1.96	0.94
13:AP:33:LEU:HD21	13:AP:87:PRO:HD3	0.97	0.94
13:AP:33:LEU:HD23	13:AP:87:PRO:CD	1.98	0.94
15:AB:137:LEU:HD21	15:AB:215:VAL:HG13	0.95	0.94
16:AA:34:MET:CE	16:AA:37:TYR:CE2	2.51	0.94
16:AA:143:PRO:HG3	17:AV:32:ILE:CG2	1.98	0.94
23:AD:112:GLY:O	23:AD:113:LEU:HG	1.68	0.94
26:AJ:46:VAL:HG11	26:AJ:106:LEU:CD1	1.97	0.94
26:AJ:72:PHE:CE1	27:AE:248:ILE:HG13	1.99	0.94
27:AE:139:LEU:HD13	27:AE:154:ILE:HG21	1.48	0.94
28:AC:180:VAL:CG1	28:AC:181:PRO:HD2	1.98	0.94
28:AC:184:VAL:HG21	28:AC:243:ALA:O	1.68	0.94
29:AG:64:LYS:CD	29:AG:64:LYS:C	2.40	0.94
30:AF:91:ARG:HA	30:AF:91:ARG:HE	1.03	0.94
30:AF:91:ARG:HH12	30:AF:94:LYS:HG3	1.33	0.94
31:AH:144:ILE:CG1	32:AW:52:ILE:HG23	1.97	0.94
33:AI:7:ASN:O	33:AI:9:HIS:N	1.99	0.94
33:AI:19:LYS:HE2	33:AI:20:PRO:CD	1.98	0.94
33:AI:154:LYS:HG3	33:AI:155:ASN:N	1.80	0.94
35:Ah:154:ASP:C	35:Ah:155:ARG:HD2	1.92	0.94
39:Cq:183:PHE:N	39:Cq:183:PHE:HD2	1.65	0.94
40:CK:31:LYS:O	40:CK:34:PRO:CG	2.16	0.94
41:CO:119:VAL:O	52:CS:167:PHE:CA	2.15	0.94
41:CO:177:LEU:CB	44:CM:130:LEU:HD23	1.97	0.94
42:CL:9:VAL:HA	42:CL:10:LEU:CD2	1.98	0.94
45:Ca:110:LYS:HG3	45:Ca:128:PHE:HB2	1.49	0.94
47:CI:97:ILE:HD11	47:CI:126:VAL:HG21	1.50	0.94
47:CI:183:ASP:O	47:CI:187:LYS:HG2	1.66	0.94
49:CQ:53:MET:HE1	49:CQ:143:ARG:HH21	1.31	0.94
49:CQ:168:ARG:HG2	49:CQ:168:ARG:O	1.64	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:162:GLN:HA	52:CS:162:GLN:NE2	1.78	0.94
54:CP:27:LYS:HE2	54:CP:63:TYR:CD1	2.01	0.94
57:CY:91:ASN:O	57:CY:93:THR:HG23	0.76	0.94
61:Ch:6:ALA:N	61:Ch:56:ARG:NH2	2.16	0.94
63:CB:40:PRO:C	63:CB:41:VAL:CG2	2.40	0.94
63:CB:301:ASN:HB2	63:CB:304:SER:OG	1.68	0.94
69:Cg:61:PRO:HA	69:Cg:64:LEU:HD23	1.49	0.94
69:Cg:75:SER:O	69:Cg:76:ARG:C	2.08	0.94
72:Ck:25:ILE:HD11	72:Ck:34:PHE:CE2	2.03	0.94
74:CC:28:PHE:CZ	74:CC:131:SER:OG	2.21	0.94
75:Cm:94:MET:CE	75:Cm:123:PRO:CA	2.45	0.94
80:CH:123:ILE:HG23	80:CH:125:ARG:HH21	1.33	0.94
81:CE:36:LYS:C	81:CE:36:LYS:N	2.26	0.94
81:CE:56:ARG:HB3	81:CE:65:ARG:HH11	1.15	0.94
82:CG:49:ARG:O	82:CG:51:LEU:HD23	1.68	0.94
83:Cs:7:LEU:CA	84:Cu:12:LEU:HD13	1.96	0.94
83:Ct:11:TYR:CZ	84:Cv:12:LEU:HD11	2.01	0.94
2:Ag:165:ILE:HG23	2:Ag:179:LEU:HD21	1.47	0.94
5:AO:95:ILE:HD13	5:AO:116:LEU:CD2	1.98	0.94
7:AM:35:ILE:HD13	7:AM:61:TYR:CZ	2.02	0.94
8:AS:26:ILE:HD11	8:AS:59:LEU:HD21	1.46	0.94
17:AV:78:ILE:C	17:AV:78:ILE:HA	1.90	0.94
23:AD:212:GLU:CB	23:AD:213:PRO:HD2	1.98	0.94
24:Ae:28:LYS:HG3	24:Ae:33:LYS:CA	1.96	0.94
28:AC:259:THR:CG2	28:AC:261:PHE:N	2.31	0.94
33:AI:139:LYS:O	33:AI:140:LYS:HB3	1.67	0.94
33:AI:141:ARG:HB3	33:AI:144:LYS:HB2	1.48	0.94
35:Ah:151:PHE:N	35:Ah:153:VAL:CG1	2.29	0.94
35:Ah:151:PHE:HD2	35:Ah:152:SER:O	1.50	0.94
38:Cz:111:LEU:HD12	38:Cz:143:ASN:HB2	1.49	0.94
39:Cq:167:VAL:HG21	39:Cq:183:PHE:HE1	1.30	0.94
41:CO:177:LEU:HD22	44:CM:130:LEU:HD21	1.45	0.94
47:CI:104:SER:HA	47:CI:112:GLN:CG	1.97	0.94
48:CD:142:PHE:O	48:CD:172:SER:N	2.00	0.94
51:CA:104:VAL:CG1	51:CA:107:MET:CE	2.46	0.94
53:CT:111:GLU:OE1	53:CT:115:LYS:HE3	1.67	0.94
58:CW:87:LEU:HD23	58:CW:90:ILE:HD12	0.96	0.94
59:CZ:36:ARG:O	59:CZ:38:TYR:N	1.99	0.94
59:CZ:95:VAL:O	59:CZ:100:VAL:HG21	1.68	0.94
61:Ch:56:ARG:HH11	61:Ch:56:ARG:CG	1.81	0.94
63:CB:392:LEU:N	63:CB:392:LEU:CD2	2.28	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:CF:67:THR:O	64:CF:71:MET:HG2	1.67	0.94
65:Cc:82:GLY:N	65:Cc:91:VAL:CG2	2.31	0.94
66:Cd:24:GLU:CG	66:Cd:122:VAL:HG21	1.97	0.94
66:Cd:59:THR:O	66:Cd:59:THR:HG22	1.66	0.94
70:Ci:17:VAL:HG12	70:Ci:18:THR:H	1.29	0.94
78:Co:65:LYS:HB3	78:Co:66:ILE:HD13	1.45	0.94
83:Ct:13:ALA:O	83:Ct:17:HIS:CD2	2.20	0.94
8:AS:94:LYS:HE3	8:AS:95:TYR:O	1.66	0.94
16:AA:104:THR:O	16:AA:107:THR:CG2	2.15	0.94
18:AY:27:VAL:HG11	18:AY:35:VAL:HG21	1.47	0.94
24:Ae:53:LYS:HD3	24:Ae:54:GLY:N	1.82	0.94
26:AJ:10:ARG:NH1	26:AJ:10:ARG:CB	2.31	0.94
39:Cq:26:LYS:CG	39:Cq:27:CYS:N	2.25	0.94
41:CO:55:LEU:HD23	41:CO:58:LEU:CD1	1.97	0.94
44:CM:51:PRO:CD	44:CM:54:CYS:SG	2.54	0.94
46:CN:138:PHE:HA	46:CN:143:ARG:NE	1.81	0.94
47:CI:101:LYS:NZ	47:CI:101:LYS:CB	2.29	0.94
49:CQ:67:ILE:HG13	49:CQ:92:VAL:HG11	1.49	0.94
50:CR:31:GLU:OE1	55:CU:126:ASP:OD1	1.84	0.94
53:CT:136:ARG:HH21	64:CF:86:GLU:CD	1.76	0.94
53:CT:146:LYS:HB3	53:CT:146:LYS:HZ3	1.00	0.94
54:CP:131:ARG:CD	54:CP:137:ASN:HD21	1.81	0.94
57:CY:22:PRO:CD	57:CY:25:ILE:CD1	2.45	0.94
57:CY:39:ARG:O	57:CY:43:ASN:CA	2.15	0.94
60:Cr:55:ALA:N	60:Cr:56:ASP:CA	2.31	0.94
64:CF:154:ILE:HG22	64:CF:187:MET:SD	2.08	0.94
67:Ce:16:ARG:HG3	67:Ce:17:THR:H	1.30	0.94
67:Ce:50:LYS:NZ	68:Cf:20:ASN:ND2	2.16	0.94
69:Cg:66:ARG:HB2	69:Cg:66:ARG:NH1	1.81	0.94
74:CC:213:GLU:H	74:CC:214:ASP:CB	1.81	0.94
75:Cm:93:LYS:O	75:Cm:124:LYS:HB2	1.68	0.94
81:CE:283:PRO:CA	81:CE:286:LEU:HD13	1.97	0.94
1:Az:79:TYR:CE2	1:Az:351:LEU:HD12	1.98	0.93
1:Az:481:LYS:HE3	1:Az:532:PRO:HA	0.93	0.93
7:AM:116:LYS:HZ2	35:Ah:293:TRP:HH2	1.09	0.93
9:Ad:13:LYS:CE	9:Ad:14:PHE:CE2	2.50	0.93
17:AV:80:SER:C	17:AV:81:LYS:CE	2.41	0.93
18:AY:44:LEU:HD11	18:AY:48:TYR:CD2	2.03	0.93
18:AY:87:PRO:HB2	18:AY:89:HIS:CE1	2.03	0.93
23:AD:56:GLN:HA	23:AD:59:LEU:HD23	1.49	0.93
23:AD:197:LYS:CB	23:AD:198:ILE:CG2	2.30	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:51:LYS:O	24:Ae:52:LYS:HD2	1.65	0.93
34:AQ:42:ILE:HG21	34:AQ:51:LEU:HD21	1.46	0.93
39:Cq:259:PHE:HB2	39:Cq:264:LYS:HD3	1.47	0.93
40:CK:159:ALA:O	40:CK:163:PRO:HG3	1.69	0.93
44:CM:5:ARG:O	44:CM:6:PHE:HB2	1.68	0.93
46:CN:44:ARG:CG	46:CN:119:TYR:CE1	2.50	0.93
46:CN:116:LEU:CD1	46:CN:151:ILE:HD11	1.94	0.93
46:CN:146:PRO:HG2	61:Ch:104:THR:HG22	1.48	0.93
52:CS:87:ARG:HH11	52:CS:87:ARG:CG	1.79	0.93
55:CU:37:ALA:HA	55:CU:65:ARG:HH12	1.26	0.93
56:CX:68:ARG:O	56:CX:69:ASN:C	2.10	0.93
60:Cr:71:ARG:CZ	60:Cr:71:ARG:N	2.31	0.93
60:Cr:82:ILE:N	60:Cr:82:ILE:CD1	2.30	0.93
62:Cb:41:ARG:O	62:Cb:45:PHE:CD2	2.21	0.93
63:CB:297:LYS:CD	63:CB:300:LYS:NZ	2.31	0.93
64:CF:30:ILE:HG22	64:CF:34:ARG:NE	1.84	0.93
64:CF:182:TYR:CD1	64:CF:200:ARG:NE	2.37	0.93
72:Ck:17:ARG:O	72:Ck:18:LYS:HB2	1.68	0.93
79:CJ:20:LEU:CD1	79:CJ:132:VAL:HG22	1.97	0.93
82:CG:87:LEU:HD23	82:CG:184:ILE:CG1	1.99	0.93
2:Ag:274:VAL:O	2:Ag:274:VAL:HG23	1.68	0.93
3:AU:64:THR:CG2	3:AU:79:ARG:HG2	1.98	0.93
13:AP:49:LEU:CA	13:AP:51:ARG:HG3	1.96	0.93
13:AP:84:ILE:O	13:AP:86:LEU:HD21	1.68	0.93
13:AP:128:HIS:HE1	36:B2:1521:C:H1'	1.28	0.93
15:AB:208:HIS:O	15:AB:209:ASP:HB2	1.66	0.93
16:AA:39:TYR:CA	16:AA:50:ASN:HD21	1.80	0.93
16:AA:154:LEU:CD1	17:AV:63:GLY:C	2.35	0.93
27:AE:153:LEU:HD23	29:AG:216:ARG:CZ	1.98	0.93
28:AC:108:LYS:HD2	28:AC:233:LEU:HD22	0.95	0.93
28:AC:163:VAL:HB	28:AC:164:PRO:HD2	1.51	0.93
34:AQ:105:LYS:HD2	34:AQ:105:LYS:C	1.92	0.93
40:CK:114:ARG:CD	40:CK:130:LYS:HA	1.98	0.93
41:CO:81:TRP:HZ3	41:CO:85:ARG:CZ	1.82	0.93
42:CL:191:LEU:HD22	42:CL:194:ILE:CD1	1.97	0.93
46:CN:28:TRP:HZ3	82:CG:67:ARG:HD3	1.27	0.93
48:CD:197:LYS:HD2	48:CD:202:GLN:CG	1.97	0.93
52:CS:34:ALA:CB	52:CS:39:VAL:HG23	1.96	0.93
54:CP:27:LYS:CG	54:CP:63:TYR:CG	2.51	0.93
54:CP:131:ARG:HH11	54:CP:137:ASN:HD22	1.05	0.93
59:CZ:15:ALA:HA	59:CZ:19:SER:CB	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:40:PRO:CG	63:CB:42:HIS:HD2	1.81	0.93
63:CB:153:MET:CE	63:CB:160:ILE:CD1	2.45	0.93
67:Ce:6:PRO:CG	67:Ce:93:LYS:HB2	1.96	0.93
69:Cg:5:LEU:HD23	69:Cg:22:LEU:CD1	1.93	0.93
69:Cg:66:ARG:CB	69:Cg:66:ARG:NH1	2.30	0.93
70:Ci:33:LEU:CD1	70:Ci:34:THR:N	2.25	0.93
74:CC:85:HIS:HA	74:CC:87:SER:H	1.29	0.93
82:CG:42:GLY:C	82:CG:43:GLN:CG	2.37	0.93
85:A5:5025:C:H6	85:A5:5026:U:H5'	1.33	0.93
1:Az:322:LYS:HZ3	1:Az:322:LYS:HB2	1.31	0.93
1:Az:739:ARG:HH11	1:Az:823:ASP:HB2	1.25	0.93
9:Ad:27:ARG:HB2	9:Ad:27:ARG:NH1	1.82	0.93
11:AL:156:GLN:OE1	11:AL:158:PHE:HE2	1.35	0.93
13:AP:93:MET:SD	13:AP:106:GLU:HB2	2.08	0.93
14:AT:77:LYS:CB	14:AT:94:ARG:HG2	1.98	0.93
18:AY:62:THR:HG22	18:AY:69:THR:HG21	1.49	0.93
22:Ac:49:PRO:HB2	30:AF:144:LEU:HD23	1.49	0.93
34:AQ:19:ALA:CB	34:AQ:74:GLY:O	2.17	0.93
34:AQ:19:ALA:HB1	34:AQ:80:GLN:HE21	1.31	0.93
34:AQ:57:LEU:HD13	34:AQ:115:TYR:CE2	2.03	0.93
36:B2:852:G:H3'	36:B2:853:C:H5''	1.49	0.93
38:Cz:28:PHE:HB2	38:Cz:29:LEU:N	1.82	0.93
47:CI:82:ARG:HG2	47:CI:82:ARG:HH11	1.28	0.93
48:CD:27:LYS:HE2	79:CJ:147:ARG:CZ	1.97	0.93
48:CD:110:LEU:CD1	48:CD:115:MET:O	2.15	0.93
48:CD:152:ARG:CG	79:CJ:145:LYS:HZ1	1.69	0.93
49:CQ:88:ASP:OD2	49:CQ:108:ARG:HG2	1.67	0.93
51:CA:141:PRO:O	51:CA:143:THR:N	2.01	0.93
54:CP:28:ASN:O	54:CP:32:THR:HG22	1.69	0.93
54:CP:71:ALA:CA	54:CP:74:LYS:HE3	1.98	0.93
56:CX:60:TYR:CD2	61:Ch:78:TYR:C	2.40	0.93
57:CY:32:SER:HB3	57:CY:49:ILE:HD11	1.48	0.93
63:CB:355:THR:C	63:CB:356:LYS:HE3	1.90	0.93
67:Ce:45:VAL:CG1	67:Ce:55:MET:CE	2.40	0.93
69:Cg:8:ARG:HB2	69:Cg:34:TYR:HE2	1.11	0.93
74:CC:91:ALA:CB	74:CC:92:PHE:HE2	1.73	0.93
74:CC:147:VAL:HG13	74:CC:152:LEU:HD21	1.46	0.93
74:CC:232:VAL:O	74:CC:263:LEU:CD1	2.17	0.93
82:CG:83:PHE:CZ	82:CG:158:ALA:O	2.21	0.93
83:Ct:19:ASP:CG	84:Cv:32:ILE:CD1	2.42	0.93
84:Cv:7:TYR:CE1	84:Cv:23:ILE:CD1	2.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:776:VAL:HG22	1:Az:777:ALA:H	1.30	0.93
11:AL:77:VAL:HG11	11:AL:80:MET:SD	2.07	0.93
17:AV:23:ILE:HD11	28:AC:249:SER:CA	1.97	0.93
18:AY:29:HIS:HE1	18:AY:68:LYS:H	0.96	0.93
23:AD:74:GLN:HE22	23:AD:75:LYS:HE2	1.33	0.93
23:AD:115:VAL:HG21	35:Ah:177:ARG:HA	1.49	0.93
34:AQ:76:GLY:O	34:AQ:80:GLN:CG	2.16	0.93
39:Cq:95:LEU:C	39:Cq:204:LEU:HD21	1.93	0.93
39:Cq:189:ILE:HG23	39:Cq:201:PRO:HG3	1.48	0.93
40:CK:56:LEU:CB	40:CK:91:ASP:OD2	2.16	0.93
45:Ca:3:SER:HA	45:Ca:6:ARG:HG3	1.49	0.93
46:CN:7:ILE:HD11	82:CG:166:LEU:HD23	1.49	0.93
46:CN:8:GLN:HE21	46:CN:50:ARG:HH22	1.05	0.93
53:CT:145:GLY:O	53:CT:146:LYS:HE2	1.67	0.93
56:CX:52:LEU:CD1	56:CX:54:LEU:HD23	1.98	0.93
57:CY:34:LEU:HD21	57:CY:38:LEU:CA	1.98	0.93
59:CZ:42:LEU:HD23	59:CZ:96:VAL:HG11	1.50	0.93
63:CB:150:PHE:O	63:CB:151:SER:C	2.03	0.93
67:Ce:38:PRO:HG2	67:Ce:55:MET:HE1	1.46	0.93
74:CC:134:PRO:HD2	74:CC:135:ALA:H	1.33	0.93
74:CC:271:ALA:HB3	74:CC:274:LYS:HB2	1.50	0.93
1:Az:4:PHE:HD2	1:Az:5:THR:HG22	1.32	0.93
1:Az:27:HIS:CD2	1:Az:28:VAL:HG22	2.04	0.93
1:Az:60:ARG:HD2	1:Az:60:ARG:O	1.66	0.93
8:AS:95:TYR:CD1	8:AS:95:TYR:N	2.28	0.93
11:AL:147:LYS:CG	11:AL:148:ALA:CA	2.29	0.93
13:AP:10:ARG:NH2	13:AP:11:THR:CG2	2.30	0.93
13:AP:56:LEU:CD1	13:AP:80:LEU:HD12	1.98	0.93
16:AA:176:TRP:HZ2	16:AA:195:TRP:HE3	1.12	0.93
17:AV:29:HIS:CE1	28:AC:86:LEU:C	2.46	0.93
19:AZ:74:SER:HA	19:AZ:79:ILE:HG22	1.50	0.93
21:Ab:4:ALA:O	21:Ab:5:LYS:HG3	1.68	0.93
21:Ab:10:PRO:CG	21:Ab:15:GLU:OE2	2.17	0.93
26:AJ:115:PHE:HD1	26:AJ:122:SER:H	0.97	0.93
28:AC:171:GLY:O	28:AC:172:ASN:ND2	2.00	0.93
28:AC:259:THR:CG2	28:AC:261:PHE:HA	1.99	0.93
28:AC:275:LYS:CD	28:AC:276:THR:HG22	1.97	0.93
29:AG:157:VAL:HG11	29:AG:159:ARG:CB	1.99	0.93
32:AW:42:MET:CE	32:AW:50:PHE:CD2	2.51	0.93
33:AI:67:TRP:HZ2	33:AI:158:ILE:HD11	1.32	0.93
36:B2:24:C:H2'	36:B2:25:A:H8	1.29	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:1138:C:H5''	36:B2:1139:C:OP2	1.69	0.93
39:Cq:245:TYR:CZ	83:Ct:14:LEU:HD21	2.01	0.93
40:CK:56:LEU:CD1	40:CK:91:ASP:CG	2.40	0.93
42:CL:50:PRO:HB2	42:CL:51:ALA:HA	0.95	0.93
46:CN:104:GLU:OE2	46:CN:161:MET:SD	2.27	0.93
47:CI:189:CYS:O	47:CI:200:VAL:HG13	1.44	0.93
54:CP:39:MET:HE1	54:CP:43:LYS:HE2	1.48	0.93
54:CP:72:GLN:OE1	54:CP:83:TRP:CZ2	2.20	0.93
58:CW:12:LYS:HE3	63:CB:388:PHE:CD2	2.04	0.93
59:CZ:5:MET:HG3	59:CZ:25:ILE:HD13	1.48	0.93
61:Ch:87:LYS:HA	71:Cj:73:ARG:CZ	1.98	0.93
69:Cg:60:ARG:NH2	69:Cg:60:ARG:HG3	1.71	0.93
74:CC:122:TYR:HE1	74:CC:280:PRO:HB3	1.33	0.93
74:CC:147:VAL:HG13	74:CC:148:PRO:CD	1.97	0.93
74:CC:341:LEU:HD11	81:CE:52:ARG:HH21	1.16	0.93
74:CC:349:LEU:HD11	74:CC:353:LYS:CE	1.98	0.93
80:CH:122:TYR:HE2	80:CH:124:ARG:HG3	1.31	0.93
82:CG:180:PRO:HA	82:CG:227:ASN:HD21	1.33	0.93
82:CG:221:ALA:O	82:CG:224:THR:OG1	1.86	0.93
84:Cv:3:TYR:O	84:Cv:7:TYR:HD2	1.51	0.93
8:AS:58:GLU:O	8:AS:59:LEU:CD2	2.16	0.93
10:AN:16:LEU:HD22	10:AN:17:PRO:HD2	1.51	0.93
14:AT:76:THR:CB	14:AT:95:GLY:O	2.16	0.93
15:AB:139:CYS:HB2	15:AB:168:MET:SD	2.08	0.93
23:AD:226:GLN:O	23:AD:227:LYS:HG3	1.67	0.93
24:Ae:44:ASN:N	24:Ae:45:VAL:CB	2.29	0.93
25:Af:108:VAL:HG22	25:Af:114:ILE:HG22	0.96	0.93
26:AJ:138:ARG:HH11	26:AJ:156:HIS:CE1	1.79	0.93
39:Cq:226:CYS:SG	84:Cu:4:VAL:CG2	2.56	0.93
42:CL:61:CYS:HB2	42:CL:66:TYR:CB	1.99	0.93
42:CL:77:SER:OG	42:CL:80:GLU:HG3	1.69	0.93
56:CX:42:THR:HG22	82:CG:49:ARG:O	1.68	0.93
59:CZ:5:MET:SD	59:CZ:25:ILE:CD1	2.56	0.93
60:Cr:95:HIS:O	60:Cr:99:LYS:HD2	1.69	0.93
61:Ch:56:ARG:HG2	61:Ch:56:ARG:NH1	1.68	0.93
66:Cd:117:LEU:HD13	66:Cd:117:LEU:N	1.57	0.93
68:Cf:30:ILE:O	68:Cf:32:GLY:N	2.01	0.93
68:Cf:33:VAL:C	68:Cf:34:TYR:CG	2.42	0.93
78:Co:97:LYS:N	78:Co:97:LYS:HD3	1.84	0.93
79:CJ:90:ARG:HH12	79:CJ:107:PHE:HB2	1.24	0.93
1:Az:571:LYS:HE2	1:Az:572:LYS:H	1.13	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:103:SER:O	3:AU:106:ILE:HG23	1.66	0.93
11:AL:10:TYR:HE2	11:AL:12:LYS:HE3	1.27	0.93
14:AT:143:LYS:HD2	14:AT:144:LYS:H	1.26	0.93
18:AY:102:THR:HG21	18:AY:107:ARG:CD	1.98	0.93
39:Cq:28:PHE:CD1	39:Cq:192:VAL:HG22	2.03	0.93
43:CV:82:ILE:CG2	43:CV:121:VAL:CG1	2.35	0.93
44:CM:14:TYR:HD2	44:CM:56:GLN:OE1	1.49	0.93
48:CD:79:TYR:HB3	48:CD:81:HIS:ND1	1.84	0.93
51:CA:180:LEU:HD11	77:Cp:18:TYR:CD2	2.04	0.93
54:CP:26:PHE:HA	54:CP:144:CYS:HG	1.23	0.93
54:CP:39:MET:HE1	54:CP:43:LYS:HB3	1.50	0.93
57:CY:110:LYS:HB3	57:CY:115:ARG:CZ	1.99	0.93
74:CC:28:PHE:HE1	74:CC:132:ALA:H	1.08	0.93
74:CC:144:ILE:CG2	74:CC:147:VAL:HG21	1.74	0.93
75:Cm:94:MET:CE	75:Cm:122:ARG:C	2.39	0.93
79:CJ:13:ARG:HA	79:CJ:137:PRO:HD2	1.48	0.93
79:CJ:16:ARG:NH1	79:CJ:17:ILE:O	2.01	0.93
1:Az:114:GLU:OE1	1:Az:532:PRO:CG	2.17	0.93
1:Az:330:LYS:C	1:Az:331:GLU:HG2	1.92	0.93
1:Az:503:PRO:HA	1:Az:549:ALA:CA	1.97	0.93
2:Ag:194:TYR:CZ	2:Ag:212:LYS:HB2	2.04	0.93
8:AS:33:ILE:HB	8:AS:36:VAL:HG11	1.48	0.93
8:AS:121:ARG:HG2	8:AS:131:VAL:HG13	1.48	0.93
23:AD:55:THR:O	23:AD:58:VAL:CG2	2.15	0.93
23:AD:212:GLU:CD	23:AD:212:GLU:H	1.71	0.93
26:AJ:17:ARG:HB3	26:AJ:18:ARG:CG	1.99	0.93
26:AJ:127:ARG:NH1	26:AJ:145:PRO:CB	2.31	0.93
27:AE:152:PRO:CD	29:AG:212:LEU:HD23	1.92	0.93
28:AC:170:TRP:CZ3	32:AW:97:ARG:NH1	2.20	0.93
39:Cq:66:ARG:O	39:Cq:69:LEU:HB2	1.67	0.93
41:CO:20:ALA:CB	41:CO:87:MET:HE1	1.99	0.93
44:CM:5:ARG:HB3	44:CM:11:ARG:NH2	1.82	0.93
44:CM:41:PRO:HG2	44:CM:73:VAL:HG21	0.95	0.93
47:CI:86:HIS:HD2	47:CI:139:ARG:HH12	0.97	0.93
56:CX:77:ILE:HA	56:CX:100:VAL:HG22	1.51	0.93
60:Cr:70:GLN:C	60:Cr:71:ARG:HG2	1.89	0.93
60:Cr:86:ALA:HB3	60:Cr:93:ILE:CD1	1.94	0.93
61:Ch:73:TYR:C	61:Ch:79:LYS:HE3	1.93	0.93
74:CC:62:THR:HG22	74:CC:64:ALA:H	1.33	0.93
79:CJ:83:LEU:HD21	79:CJ:132:VAL:HG22	1.48	0.93
1:Az:45:ILE:HG13	1:Az:46:ILE:N	1.84	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:51:VAL:HG13	6:AX:70:VAL:HG13	1.47	0.93
7:AM:13:ASP:O	7:AM:16:THR:CB	2.16	0.93
7:AM:116:LYS:NZ	35:Ah:293:TRP:HH2	1.64	0.93
21:Ab:3:LEU:N	21:Ab:3:LEU:CD2	2.29	0.93
24:Ae:46:VAL:HG22	24:Ae:47:PRO:O	1.68	0.93
26:AJ:134:HIS:CE1	26:AJ:163:SER:CB	2.42	0.93
27:AE:128:LYS:HD3	27:AE:130:PHE:CD1	2.03	0.93
28:AC:256:TRP:CD2	32:AW:68:ARG:HD3	2.02	0.93
30:AF:110:GLN:O	30:AF:113:VAL:HG12	1.68	0.93
34:AQ:50:LYS:HZ2	34:AQ:85:ARG:HH22	1.03	0.93
46:CN:38:ARG:CG	46:CN:62:TYR:CZ	2.52	0.93
46:CN:45:PRO:O	46:CN:49:ARG:HB3	1.69	0.93
49:CQ:38:ARG:HB3	74:CC:302:LEU:CD2	1.98	0.93
49:CQ:39:THR:CG2	49:CQ:41:SER:HB3	1.98	0.93
50:CR:76:MET:HA	50:CR:76:MET:HE3	0.94	0.93
50:CR:96:MET:HE1	85:A5:2667:C:H5'	1.51	0.93
51:CA:250:LYS:CA	51:CA:251:THR:O	2.08	0.93
56:CX:60:TYR:HD2	61:Ch:78:TYR:O	1.30	0.93
58:CW:2:LYS:NZ	58:CW:2:LYS:CB	2.29	0.93
61:Ch:109:ARG:HH11	61:Ch:109:ARG:CB	1.80	0.93
63:CB:115:LYS:CD	63:CB:129:ALA:HB3	1.99	0.93
63:CB:173:LEU:CD1	63:CB:342:LYS:CE	2.46	0.93
63:CB:397:ILE:HG22	63:CB:398:ALA:H	1.28	0.93
67:Ce:21:ILE:N	67:Ce:21:ILE:CD1	2.29	0.93
67:Ce:66:THR:HA	67:Ce:69:MET:SD	2.09	0.93
71:Cj:36:LYS:NZ	71:Cj:57:ASN:ND2	2.17	0.93
74:CC:28:PHE:CD1	74:CC:129:ALA:O	2.22	0.93
79:CJ:90:ARG:HH11	79:CJ:107:PHE:HB2	1.10	0.93
81:CE:111:LYS:O	81:CE:113:PRO:CD	2.15	0.93
83:Cs:11:TYR:HE2	84:Cu:12:LEU:HD11	1.29	0.93
1:Az:72:SER:HA	1:Az:104:ASP:CG	1.94	0.93
8:AS:136:THR:O	36:B2:1521:C:H2'	1.67	0.93
10:AN:55:ARG:NH2	21:Ab:51:GLN:CD	2.27	0.93
11:AL:113:LEU:HD11	11:AL:120:VAL:CG2	1.98	0.93
13:AP:68:PRO:HB3	13:AP:69:PRO:HD3	1.51	0.93
29:AG:25:ARG:CG	29:AG:28:TYR:CD2	2.51	0.93
29:AG:41:LEU:CD2	29:AG:45:TRP:CE3	2.27	0.93
32:AW:3:ARG:NH2	32:AW:9:ASP:OD2	2.01	0.93
33:AI:62:VAL:HG21	33:AI:75:LYS:NZ	1.82	0.93
39:Cq:69:LEU:HB3	39:Cq:71:ASN:HB2	1.50	0.93
39:Cq:167:VAL:HG21	39:Cq:183:PHE:CE1	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:215:PHE:HE1	83:Cs:14:LEU:HD23	1.30	0.93
40:CK:123:ARG:HG2	40:CK:124:GLU:N	1.84	0.93
43:CV:32:THR:CG2	43:CV:113:LYS:HG3	1.99	0.93
45:Ca:89:ASN:HB3	45:Ca:91:ALA:HA	1.49	0.93
49:CQ:72:LEU:C	49:CQ:75:ARG:HG2	1.93	0.93
56:CX:60:TYR:CD2	61:Ch:78:TYR:HB2	2.03	0.93
63:CB:61:ASP:CG	63:CB:361:GLU:OE1	2.11	0.93
77:Cp:27:LYS:C	77:Cp:27:LYS:CD	2.40	0.93
81:CE:106:VAL:HB	81:CE:107:VAL:C	1.94	0.93
82:CG:23:GLU:O	82:CG:26:LYS:N	2.02	0.93
82:CG:211:ASP:CG	82:CG:214:ALA:HB3	1.93	0.93
1:Az:82:SER:O	1:Az:86:LEU:CD1	2.16	0.92
1:Az:746:LEU:CD1	1:Az:785:LYS:HD3	2.00	0.92
4:AK:83:LEU:O	4:AK:84:HIS:ND1	2.02	0.92
11:AL:7:GLU:HG3	11:AL:8:ARG:N	1.79	0.92
12:AR:99:ASP:HA	12:AR:119:VAL:HG12	1.49	0.92
14:AT:143:LYS:CD	14:AT:144:LYS:N	2.31	0.92
15:AB:19:LYS:HB2	15:AB:19:LYS:HZ3	1.32	0.92
15:AB:36:PRO:HB3	15:AB:231:LEU:CD2	1.96	0.92
18:AY:92:ALA:CA	18:AY:97:TYR:O	2.17	0.92
21:Ab:63:LEU:O	21:Ab:63:LEU:HD23	1.68	0.92
26:AJ:89:GLU:N	26:AJ:92:MET:HG3	1.83	0.92
26:AJ:165:TYR:N	26:AJ:165:TYR:CD1	2.27	0.92
29:AG:155:GLN:O	29:AG:156:TYR:CD1	2.21	0.92
46:CN:178:HIS:O	46:CN:181:HIS:HD2	1.48	0.92
47:CI:101:LYS:HB2	47:CI:101:LYS:HZ2	1.17	0.92
51:CA:143:THR:HA	51:CA:144:LYS:HG3	1.49	0.92
53:CT:81:LYS:HA	62:Cb:16:TRP:HH2	1.27	0.92
56:CX:80:PRO:HG2	61:Ch:33:VAL:CG2	2.00	0.92
69:Cg:45:ALA:HB3	69:Cg:47:GLY:CA	1.99	0.92
71:Cj:54:LYS:O	71:Cj:58:THR:HG23	1.68	0.92
74:CC:130:ALA:HB1	74:CC:246:VAL:CG1	1.98	0.92
74:CC:219:LYS:HZ1	74:CC:222:ARG:HH12	1.13	0.92
82:CG:143:VAL:O	82:CG:146:LEU:HD12	1.69	0.92
1:Az:746:LEU:HD11	1:Az:785:LYS:HD3	1.50	0.92
12:AR:123:THR:HG23	16:AA:44:ASP:HA	1.49	0.92
18:AY:10:ARG:CG	18:AY:24:VAL:HB	2.00	0.92
24:Ae:23:GLU:OE1	24:Ae:24:LYS:N	2.01	0.92
27:AE:36:HIS:HB2	27:AE:41:CYS:SG	2.08	0.92
28:AC:66:LEU:CD1	28:AC:93:ILE:HD13	1.99	0.92
28:AC:75:ILE:O	28:AC:97:PHE:CZ	2.22	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:50:VAL:CG1	29:AG:111:LEU:HB3	1.99	0.92
35:Ah:151:PHE:N	35:Ah:153:VAL:CB	2.28	0.92
46:CN:147:ASP:O	46:CN:150:TRP:HD1	1.51	0.92
46:CN:180:PHE:O	46:CN:184:ILE:CB	2.17	0.92
47:CI:171:TRP:O	47:CI:174:THR:OG1	1.86	0.92
51:CA:62:VAL:CG2	51:CA:73:THR:HG22	1.99	0.92
52:CS:74:ARG:C	52:CS:76:LYS:HG3	1.94	0.92
53:CT:24:VAL:CG1	53:CT:25:VAL:N	2.13	0.92
57:CY:53:ASP:CG	57:CY:109:LEU:HD23	1.93	0.92
58:CW:87:LEU:O	58:CW:90:ILE:CA	2.15	0.92
59:CZ:87:VAL:HG22	59:CZ:127:ASN:ND2	1.84	0.92
68:Cf:9:ALA:HA	68:Cf:31:GLU:OE1	1.69	0.92
78:Co:13:LYS:HE2	78:Co:81:ARG:HD2	1.46	0.92
79:CJ:95:ARG:H	79:CJ:98:ASN:HD22	0.96	0.92
82:CG:207:VAL:HG11	82:CG:215:LEU:HD12	1.48	0.92
82:CG:243:GLY:O	82:CG:247:VAL:CG2	2.18	0.92
1:Az:4:PHE:CD2	1:Az:5:THR:CB	2.52	0.92
1:Az:75:ILE:HG22	1:Az:77:LEU:CD1	1.96	0.92
1:Az:432:PRO:HB3	1:Az:497:MET:HE1	1.51	0.92
1:Az:518:PRO:CB	6:AX:50:ILE:CD1	2.29	0.92
5:AO:88:LEU:HD11	15:AB:25:PHE:HE2	1.29	0.92
6:AX:27:TYR:CZ	6:AX:31:HIS:CD2	2.57	0.92
6:AX:29:LYS:HD3	6:AX:34:THR:HG21	1.51	0.92
15:AB:209:ASP:OD1	15:AB:211:PHE:CZ	2.21	0.92
16:AA:11:LYS:HG2	16:AA:13:GLU:HG2	0.94	0.92
26:AJ:17:ARG:HB3	26:AJ:18:ARG:HG2	1.49	0.92
28:AC:125:LYS:HE3	28:AC:141:VAL:CG1	1.99	0.92
32:AW:101:PHE:HA	32:AW:113:HIS:HE1	1.33	0.92
32:AW:104:LEU:CD1	32:AW:106:THR:CG2	2.47	0.92
39:Cq:6:ARG:CG	39:Cq:10:LYS:CE	2.19	0.92
40:CK:12:VAL:CG1	40:CK:65:GLN:OE1	2.17	0.92
40:CK:21:GLU:OE2	40:CK:21:GLU:HA	1.67	0.92
42:CL:125:ILE:CG2	42:CL:127:PHE:CE1	2.53	0.92
46:CN:28:TRP:HZ3	82:CG:67:ARG:NE	1.59	0.92
48:CD:261:VAL:HG12	48:CD:262:LYS:HA	0.94	0.92
51:CA:97:ASN:ND2	51:CA:100:ASN:HD21	1.67	0.92
54:CP:24:VAL:CG1	54:CP:90:PHE:CZ	2.51	0.92
56:CX:56:ARG:O	56:CX:57:GLN:CG	2.16	0.92
57:CY:55:VAL:HG12	57:CY:104:VAL:CG1	1.96	0.92
59:CZ:6:LYS:CD	59:CZ:6:LYS:N	2.29	0.92
59:CZ:73:LYS:CG	59:CZ:75:TYR:CD1	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:356:LYS:O	63:CB:358:ARG:N	1.98	0.92
80:CH:25:VAL:HG21	80:CH:38:PHE:HE2	1.31	0.92
82:CG:87:LEU:CD2	82:CG:184:ILE:HG13	2.00	0.92
1:Az:479:LEU:CD2	1:Az:483:GLY:HA3	2.00	0.92
4:AK:84:HIS:ND1	4:AK:84:HIS:C	2.28	0.92
7:AM:116:LYS:O	7:AM:117:GLU:CB	2.17	0.92
13:AP:107:ILE:HA	13:AP:111:MET:HE1	1.51	0.92
17:AV:55:ILE:CD1	17:AV:68:SER:OG	2.17	0.92
25:Af:103:LEU:CD2	25:Af:105:TYR:O	2.17	0.92
31:AH:57:ARG:HD2	31:AH:89:GLY:O	1.67	0.92
39:Cq:259:PHE:CD1	84:Cv:1:MET:N	2.36	0.92
40:CK:31:LYS:C	40:CK:34:PRO:HD3	1.94	0.92
41:CO:81:TRP:CZ3	41:CO:85:ARG:CZ	2.51	0.92
41:CO:190:ASP:HB2	41:CO:193:THR:CA	1.98	0.92
44:CM:63:LYS:HE2	44:CM:64:PHE:HA	1.50	0.92
49:CQ:150:ARG:HB3	49:CQ:164:LYS:HG3	1.51	0.92
51:CA:32:VAL:CG2	51:CA:163:ARG:HH22	1.82	0.92
54:CP:95:LEU:HD12	54:CP:148:MET:CE	1.98	0.92
60:Cr:126:VAL:CG1	60:Cr:127:LYS:N	2.24	0.92
70:Ci:10:GLY:CA	70:Ci:11:LEU:HD12	1.98	0.92
78:Co:68:LEU:CB	78:Co:83:LEU:HD12	1.99	0.92
80:CH:109:GLY:HA2	80:CH:128:MET:CB	1.70	0.92
81:CE:212:LEU:CG	81:CE:216:TYR:HB2	1.98	0.92
82:CG:27:VAL:C	82:CG:30:PRO:HD2	1.95	0.92
82:CG:207:VAL:HG12	82:CG:208:ASN:O	1.69	0.92
1:Az:42:LYS:CG	1:Az:79:TYR:HH	1.77	0.92
2:Ag:298:LEU:HD11	2:Ag:310:TRP:HE3	1.19	0.92
5:AO:142:ARG:HH12	20:Aa:27:ALA:HB2	1.31	0.92
6:AX:99:GLU:O	6:AX:100:VAL:CG1	2.16	0.92
8:AS:91:LYS:HD2	13:AP:15:PHE:CE1	2.05	0.92
10:AN:115:LEU:O	10:AN:119:GLU:HG2	1.68	0.92
13:AP:44:ARG:HH21	13:AP:84:ILE:CB	1.83	0.92
13:AP:127:LYS:NZ	13:AP:127:LYS:CB	2.30	0.92
14:AT:144:LYS:HB2	14:AT:144:LYS:HZ3	1.26	0.92
16:AA:177:MET:HE1	16:AA:180:ARG:HH22	1.21	0.92
17:AV:23:ILE:HD11	28:AC:249:SER:C	1.94	0.92
18:AY:20:ARG:HG3	18:AY:74:MET:HE3	0.93	0.92
18:AY:21:LYS:N	18:AY:21:LYS:CD	2.30	0.92
23:AD:112:GLY:N	23:AD:113:LEU:CD1	2.33	0.92
27:AE:98:ASN:HD21	27:AE:119:ALA:CB	1.81	0.92
27:AE:208:VAL:HG21	27:AE:225:ILE:CD1	1.93	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:114:LYS:HD2	28:AC:115:GLN:N	1.84	0.92
31:AH:23:ILE:CD1	31:AH:27:LEU:CD2	2.47	0.92
31:AH:115:LYS:O	31:AH:116:ARG:HB3	1.65	0.92
35:Ah:151:PHE:CB	35:Ah:153:VAL:HG23	1.93	0.92
40:CK:107:ASP:OD1	40:CK:143:VAL:CG2	2.18	0.92
44:CM:25:VAL:CG1	44:CM:39:ASP:C	2.40	0.92
46:CN:172:ARG:NH2	46:CN:174:LEU:CD1	2.10	0.92
47:CI:212:LEU:O	47:CI:213:HIS:C	2.09	0.92
48:CD:146:LEU:HD21	48:CD:163:LEU:CD1	1.96	0.92
50:CR:10:LEU:CB	50:CR:41:ILE:CD1	2.47	0.92
50:CR:11:ALA:CB	50:CR:50:ILE:CD1	2.42	0.92
50:CR:31:GLU:CD	55:CU:125:GLU:H	1.77	0.92
51:CA:143:THR:O	51:CA:143:THR:HG22	1.66	0.92
52:CS:75:VAL:O	52:CS:99:ASP:O	1.87	0.92
52:CS:76:LYS:HE3	52:CS:100:LEU:O	1.67	0.92
52:CS:90:THR:CG2	53:CT:156:TYR:CE1	2.52	0.92
59:CZ:6:LYS:N	59:CZ:6:LYS:HD2	1.85	0.92
60:Cr:60:VAL:CG1	60:Cr:85:ASN:OD1	2.18	0.92
63:CB:154:LYS:HD2	63:CB:154:LYS:C	1.92	0.92
67:Ce:6:PRO:HD3	67:Ce:93:LYS:CD	1.99	0.92
73:Cl:37:TYR:O	73:Cl:39:SER:N	2.02	0.92
74:CC:133:LEU:HD21	74:CC:136:LEU:CG	1.97	0.92
78:Co:25:GLN:CG	78:Co:91:PHE:HZ	1.82	0.92
81:CE:83:LYS:CD	81:CE:86:GLU:N	2.32	0.92
82:CG:74:LEU:N	82:CG:74:LEU:CD1	2.29	0.92
1:Az:562:GLU:CB	1:Az:570:ILE:HD11	2.00	0.92
1:Az:571:LYS:HE2	1:Az:571:LYS:C	1.95	0.92
1:Az:845:LYS:CE	1:Az:846:GLU:N	2.30	0.92
5:AO:52:THR:HG21	36:B2:953:C:H4'	1.52	0.92
5:AO:56:VAL:HG11	5:AO:81:VAL:HG23	1.48	0.92
5:AO:131:ASP:OD2	20:Aa:67:LEU:HD22	1.70	0.92
7:AM:18:LEU:HD22	7:AM:22:LEU:HG	1.49	0.92
7:AM:28:HIS:CD2	7:AM:115:GLY:CA	2.51	0.92
7:AM:67:ALA:HB1	25:Af:114:ILE:CG2	1.98	0.92
8:AS:16:LEU:O	8:AS:17:ASN:ND2	2.01	0.92
13:AP:49:LEU:HA	13:AP:51:ARG:CG	1.98	0.92
21:Ab:61:THR:HG23	21:Ab:62:VAL:N	1.84	0.92
28:AC:78:LEU:HD13	28:AC:82:TYR:OH	1.68	0.92
30:AF:167:LYS:HD3	30:AF:171:GLU:HG2	1.52	0.92
33:AI:206:LYS:CD	33:AI:207:GLY:H	1.83	0.92
40:CK:78:SER:CA	40:CK:117:ARG:NH1	2.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:102:GLY:CA	40:CK:139:VAL:HG13	1.89	0.92
45:Ca:65:ARG:CZ	45:Ca:65:ARG:HB3	1.98	0.92
46:CN:6:TYR:CE1	70:CI:40:VAL:HG22	2.05	0.92
46:CN:115:VAL:HA	46:CN:134:LEU:HD23	0.93	0.92
49:CQ:24:TYR:HB2	74:CC:283:LYS:CD	1.98	0.92
51:CA:250:LYS:C	51:CA:250:LYS:HD3	1.95	0.92
52:CS:10:TYR:HE1	52:CS:66:GLN:HG3	1.31	0.92
55:CU:80:LYS:HG2	55:CU:110:TYR:HH	1.28	0.92
57:CY:3:PHE:CE1	74:CC:222:ARG:CZ	2.53	0.92
63:CB:179:HIS:CD2	63:CB:344:VAL:HG21	2.05	0.92
68:Cf:106:TYR:HD2	68:Cf:106:TYR:O	1.50	0.92
72:Ck:31:ASN:N	72:Ck:31:ASN:HD22	1.63	0.92
81:CE:150:LEU:HB3	81:CE:194:VAL:CG1	2.00	0.92
81:CE:223:ARG:O	81:CE:224:LYS:CD	2.18	0.92
82:CG:28:VAL:C	82:CG:31:LEU:HD22	1.94	0.92
1:Az:613:LEU:HD22	1:Az:639:TYR:CE1	2.05	0.92
12:AR:122:PRO:HB2	12:AR:123:THR:OG1	1.69	0.92
18:AY:54:VAL:HG22	18:AY:79:LEU:HD23	1.49	0.92
24:Ae:28:LYS:CG	24:Ae:33:LYS:HA	2.00	0.92
26:AJ:79:ARG:O	26:AJ:83:ARG:HG3	1.70	0.92
28:AC:256:TRP:CB	32:AW:68:ARG:NH1	2.32	0.92
35:Ah:154:ASP:O	35:Ah:155:ARG:CD	2.17	0.92
36:B2:127:C:N3	36:B2:180:G:O2'	2.00	0.92
39:Cq:249:LEU:HD12	39:Cq:250:ALA:N	1.84	0.92
45:Ca:82:VAL:CG1	45:Ca:86:THR:OG1	2.17	0.92
47:CI:103:LEU:CD2	47:CI:103:LEU:N	2.29	0.92
48:CD:270:LYS:O	48:CD:271:MET:CG	2.18	0.92
54:CP:59:PRO:HG2	54:CP:76:TRP:HD1	0.76	0.92
54:CP:86:LYS:O	54:CP:90:PHE:CD2	2.22	0.92
57:CY:49:ILE:HD11	57:CY:101:PRO:CB	1.96	0.92
57:CY:89:LYS:HD3	57:CY:90:ALA:H	1.22	0.92
60:Cr:76:SER:H	60:Cr:79:ARG:HH21	1.11	0.92
63:CB:11:HIS:ND1	63:CB:236:HIS:O	2.02	0.92
63:CB:82:PRO:HG3	63:CB:171:LEU:HD21	1.47	0.92
63:CB:92:TYR:HD2	63:CB:99:LEU:HD13	1.23	0.92
66:Cd:22:THR:HG22	66:Cd:89:SER:HB2	1.50	0.92
74:CC:14:LYS:O	74:CC:16:GLU:CD	2.11	0.92
74:CC:71:ARG:O	74:CC:73:VAL:HG23	1.70	0.92
74:CC:218:ILE:HA	74:CC:229:LEU:CD1	1.99	0.92
81:CE:96:VAL:HG13	81:CE:97:GLY:H	1.32	0.92
82:CG:159:HIS:CE1	82:CG:186:GLY:H	1.83	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:220:GLU:O	82:CG:224:THR:HG23	1.68	0.92
1:Az:556:ILE:HA	1:Az:559:LYS:HE2	1.52	0.92
6:AX:14:ARG:CB	11:AL:99:TYR:OH	2.16	0.92
7:AM:78:LYS:C	7:AM:79:VAL:HG23	1.94	0.92
13:AP:4:VAL:HA	13:AP:10:ARG:HD2	1.46	0.92
15:AB:72:ALA:HB2	15:AB:79:VAL:O	1.70	0.92
16:AA:5:LEU:HD22	16:AA:5:LEU:O	1.70	0.92
24:Ae:31:ARG:H	26:AJ:38:ARG:HE	0.92	0.92
25:Af:97:LYS:NZ	25:Af:97:LYS:CB	2.32	0.92
27:AE:62:LYS:HA	27:AE:65:CYS:SG	2.10	0.92
28:AC:66:LEU:HD22	28:AC:66:LEU:C	1.95	0.92
28:AC:78:LEU:HG	28:AC:98:LEU:HD13	1.51	0.92
30:AF:42:LYS:O	30:AF:44:LYS:HA	1.68	0.92
33:AI:154:LYS:CG	33:AI:155:ASN:N	2.30	0.92
34:AQ:85:ARG:HH22	34:AQ:117:ARG:CG	1.82	0.92
39:Cq:119:CYS:C	39:Cq:163:THR:CG2	2.43	0.92
41:CO:20:ALA:C	41:CO:87:MET:HE1	1.95	0.92
42:CL:26:PHE:O	42:CL:29:PRO:HG3	1.69	0.92
45:Ca:119:LYS:HA	45:Ca:140:VAL:HG13	1.52	0.92
48:CD:223:PHE:CG	48:CD:226:TYR:CE2	2.58	0.92
52:CS:23:HIS:N	52:CS:23:HIS:CD2	2.30	0.92
59:CZ:12:LEU:HD21	59:CZ:22:LYS:HE2	1.52	0.92
63:CB:52:GLY:O	63:CB:78:ILE:HG13	1.68	0.92
63:CB:285:TYR:CE1	63:CB:363:ILE:HD12	2.02	0.92
67:Ce:35:TRP:CE2	67:Ce:56:PRO:CD	2.52	0.92
68:Cf:51:TYR:CD2	68:Cf:53:ALA:HB2	2.05	0.92
74:CC:13:GLU:CD	74:CC:13:GLU:N	2.28	0.92
74:CC:14:LYS:C	74:CC:14:LYS:CD	2.29	0.92
74:CC:15:GLY:C	74:CC:16:GLU:HG2	1.94	0.92
77:Cp:48:LYS:HD2	77:Cp:49:ARG:N	1.85	0.92
80:CH:129:ARG:CB	80:CH:130:PRO:HD3	1.97	0.92
81:CE:280:GLY:O	81:CE:282:TYR:HE2	1.38	0.92
81:CE:286:LEU:HB2	81:CE:287:VAL:CB	1.99	0.92
83:Cs:31:LEU:HD21	84:Cu:30:VAL:CA	1.99	0.92
1:Az:167:LEU:C	80:CH:100:PRO:HG2	1.95	0.92
1:Az:613:LEU:CD2	1:Az:639:TYR:HD1	1.56	0.92
2:Ag:282:GLU:HG3	2:Ag:283:PRO:N	1.85	0.92
5:AO:44:VAL:CG2	5:AO:93:LEU:HD13	2.00	0.92
11:AL:10:TYR:HD2	11:AL:12:LYS:HZ2	1.12	0.92
12:AR:22:THR:CG2	12:AR:73:LEU:HD11	1.99	0.92
14:AT:76:THR:HG22	14:AT:96:SER:O	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:140:VAL:O	16:AA:140:VAL:HG12	1.69	0.92
23:AD:197:LYS:HB2	23:AD:198:ILE:CB	1.99	0.92
23:AD:226:GLN:NE2	23:AD:226:GLN:CA	2.32	0.92
24:Ae:38:TYR:HE1	26:AJ:30:LYS:HA	1.22	0.92
27:AE:48:LEU:HD21	27:AE:70:ILE:HD12	1.51	0.92
28:AC:125:LYS:HE2	28:AC:127:PHE:HZ	1.16	0.92
35:Ah:151:PHE:N	35:Ah:153:VAL:HB	1.84	0.92
35:Ah:152:SER:HA	35:Ah:153:VAL:C	1.93	0.92
39:Cq:82:ILE:O	39:Cq:83:ARG:HG2	1.70	0.92
44:CM:5:ARG:HD2	44:CM:58:THR:O	1.69	0.92
44:CM:107:PHE:CD1	81:CE:270:TYR:CD1	2.58	0.92
45:Ca:59:LYS:HA	49:CQ:172:ARG:HH22	1.34	0.92
48:CD:223:PHE:HD1	48:CD:226:TYR:CZ	1.84	0.92
49:CQ:110:ARG:CZ	49:CQ:120:ILE:CD1	2.40	0.92
53:CT:16:SER:C	53:CT:18:PRO:HD3	1.94	0.92
55:CU:24:ASP:OD1	55:CU:26:THR:HG23	1.70	0.92
55:CU:39:PHE:HD2	55:CU:70:ILE:HD11	1.35	0.92
58:CW:50:ASN:OD1	58:CW:55:TYR:CE1	2.22	0.92
66:Cd:57:MET:HB3	66:Cd:90:ARG:HE	1.33	0.92
79:CJ:17:ILE:HD13	79:CJ:83:LEU:CD1	2.00	0.92
80:CH:3:THR:OG1	80:CH:67:LEU:HD11	1.70	0.92
80:CH:49:GLY:HA2	80:CH:50:LYS:HZ1	1.19	0.92
80:CH:50:LYS:CE	80:CH:50:LYS:N	2.33	0.92
83:Ct:43:TRP:O	83:Ct:47:PHE:CD2	2.23	0.92
9:Ad:10:HIS:CG	9:Ad:11:PRO:HD2	2.04	0.92
19:AZ:69:THR:CB	19:AZ:70:PRO:HD3	1.99	0.92
21:Ab:61:THR:HG23	21:Ab:62:VAL:O	1.69	0.92
33:AI:110:ARG:NH2	33:AI:124:LYS:HD3	1.84	0.92
34:AQ:78:VAL:CG1	34:AQ:82:TYR:HE2	1.83	0.92
35:Ah:291:ASP:HA	35:Ah:294:LYS:CD	1.99	0.92
38:Cz:29:LEU:CD1	38:Cz:172:VAL:HG12	2.00	0.92
39:Cq:39:GLN:HE22	39:Cq:186:GLY:HA2	0.76	0.92
39:Cq:168:GLY:CA	39:Cq:171:GLU:CD	2.41	0.92
42:CL:126:LEU:CD2	42:CL:136:LYS:O	2.17	0.92
42:CL:178:ALA:O	42:CL:181:SER:OG	1.88	0.92
45:Ca:93:ASN:HD22	45:Ca:94:LYS:N	1.67	0.92
48:CD:20:PHE:CD2	48:CD:30:TYR:CD2	2.55	0.92
48:CD:57:ASN:HA	48:CD:58:ARG:HD3	0.92	0.92
54:CP:4:TYR:CE1	54:CP:147:GLU:HB2	2.04	0.92
60:Cr:6:GLN:NE2	74:CC:133:LEU:HD11	1.84	0.92
60:Cr:64:ILE:HG12	60:Cr:81:THR:HG23	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:17:LEU:CD2	63:CB:19:ARG:HG2	1.99	0.92
69:Cg:8:ARG:CB	69:Cg:34:TYR:CZ	2.47	0.92
77:Cp:29:ILE:HG21	77:Cp:69:TRP:CD1	2.05	0.92
79:CJ:115:LEU:O	79:CJ:115:LEU:CD1	2.17	0.92
80:CH:105:ILE:HG22	80:CH:111:LEU:C	1.95	0.92
82:CG:160:ASP:HB2	82:CG:187:LYS:HD2	1.52	0.92
1:Az:160:MET:CE	1:Az:178:PHE:CZ	2.53	0.91
1:Az:226:LYS:NZ	1:Az:356:ILE:CD1	2.33	0.91
1:Az:751:CYS:CB	1:Az:755:VAL:CB	2.05	0.91
2:Ag:4:GLN:NE2	2:Ag:268:ASP:OD2	2.02	0.91
28:AC:65:LYS:HD3	28:AC:266:TYR:HE1	1.30	0.91
28:AC:138:GLY:HA2	28:AC:241:PHE:HZ	1.33	0.91
30:AF:25:THR:CG2	30:AF:42:LYS:CG	2.07	0.91
40:CK:102:GLY:CA	40:CK:139:VAL:CA	2.37	0.91
40:CK:131:GLU:CG	40:CK:155:ILE:HD12	1.97	0.91
42:CL:148:THR:O	42:CL:149:GLN:CG	2.17	0.91
48:CD:223:PHE:HD2	48:CD:223:PHE:N	1.65	0.91
52:CS:137:CYS:SG	52:CS:143:LYS:CB	2.58	0.91
58:CW:34:ALA:HA	58:CW:37:GLU:OE1	1.69	0.91
66:Cd:80:VAL:HG12	66:Cd:81:PRO:CD	2.00	0.91
70:Ci:81:ILE:CG2	70:Ci:85:ARG:HH12	1.80	0.91
72:Ck:12:LEU:O	72:Ck:16:ARG:NE	2.03	0.91
74:CC:109:ARG:HD2	74:CC:111:TRP:CZ3	2.03	0.91
74:CC:143:ARG:NH2	74:CC:182:LYS:HD2	1.85	0.91
74:CC:146:GLU:HG2	74:CC:175:LYS:HE2	1.51	0.91
1:Az:762:VAL:HG13	1:Az:766:LYS:HZ3	1.16	0.91
2:Ag:282:GLU:CG	2:Ag:283:PRO:N	2.30	0.91
4:AK:11:ILE:HG23	4:AK:49:MET:HE3	1.52	0.91
5:AO:44:VAL:HG21	5:AO:93:LEU:CD1	1.99	0.91
10:AN:28:LEU:C	10:AN:29:THR:HG23	1.95	0.91
13:AP:49:LEU:HD12	13:AP:51:ARG:HE	0.74	0.91
13:AP:53:GLN:HE21	13:AP:80:LEU:HD13	1.27	0.91
16:AA:21:ALA:HB1	16:AA:173:LEU:HD12	1.49	0.91
16:AA:118:GLU:HB3	28:AC:65:LYS:HZ1	0.76	0.91
16:AA:183:LEU:HB2	16:AA:189:ILE:HD11	1.50	0.91
18:AY:7:ILE:HD11	18:AY:43:LYS:CD	2.00	0.91
18:AY:118:ARG:CZ	29:AG:85:ARG:NE	2.32	0.91
20:Aa:28:ARG:HG2	20:Aa:29:CYS:N	1.85	0.91
21:Ab:8:LEU:HD23	32:AW:62:VAL:HG21	0.93	0.91
26:AJ:171:GLY:O	26:AJ:173:VAL:N	2.03	0.91
28:AC:70:VAL:HG11	28:AC:97:PHE:CE2	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:170:ARG:O	35:Ah:170:ARG:HD3	1.70	0.91
48:CD:190:PHE:CZ	48:CD:195:HIS:CB	2.52	0.91
54:CP:131:ARG:CD	54:CP:137:ASN:HD22	1.55	0.91
60:Cr:55:ALA:C	60:Cr:56:ASP:CG	2.32	0.91
65:Cc:102:SER:C	65:Cc:104:ILE:H	1.71	0.91
66:Cd:42:ALA:HB3	66:Cd:73:TRP:CE2	2.02	0.91
81:CE:242:ILE:HD13	81:CE:246:ARG:NH1	1.84	0.91
83:Cs:43:TRP:N	83:Cs:44:PRO:HD3	1.84	0.91
83:Ct:21:VAL:HG13	83:Ct:27:LYS:NZ	1.84	0.91
84:Cv:7:TYR:CZ	84:Cv:42:VAL:CB	2.53	0.91
1:Az:42:LYS:HE2	1:Az:79:TYR:OH	1.68	0.91
1:Az:751:CYS:HB3	1:Az:755:VAL:CG1	2.00	0.91
2:Ag:298:LEU:CD1	2:Ag:310:TRP:HE3	1.84	0.91
4:AK:66:HIS:HE1	23:AD:76:ARG:NE	1.55	0.91
5:AO:131:ASP:CB	20:Aa:67:LEU:CD2	2.45	0.91
6:AX:98:ASP:O	6:AX:99:GLU:HB2	1.70	0.91
7:AM:60:MET:HB3	25:Af:104:LYS:HD2	1.52	0.91
15:AB:57:ILE:CD1	15:AB:60:ASP:OD2	2.19	0.91
16:AA:45:GLY:O	16:AA:46:ILE:CG1	2.17	0.91
16:AA:177:MET:HE1	16:AA:180:ARG:HH21	1.26	0.91
18:AY:18:LEU:HB3	18:AY:20:ARG:HH11	0.74	0.91
18:AY:114:MET:O	18:AY:124:ASN:ND2	2.02	0.91
20:Aa:107:ALA:HB1	20:Aa:108:PRO:CD	2.00	0.91
32:AW:4:MET:N	32:AW:4:MET:SD	2.44	0.91
34:AQ:47:LEU:CD2	34:AQ:81:ILE:HD13	1.97	0.91
36:B2:1597:C:H4'	36:B2:1603:G:C6	2.06	0.91
41:CO:36:VAL:CG1	41:CO:107:GLY:O	2.18	0.91
41:CO:131:PRO:C	41:CO:132:THR:HG23	1.94	0.91
42:CL:139:SER:OG	42:CL:142:GLU:HG2	1.68	0.91
66:Cd:122:VAL:CG1	66:Cd:123:ASP:N	2.32	0.91
67:Ce:37:LYS:CG	67:Ce:39:ARG:NH2	2.34	0.91
67:Ce:44:ARG:CD	67:Ce:52:GLN:HE21	1.72	0.91
69:Cg:59:VAL:HG13	69:Cg:60:ARG:H	1.28	0.91
70:Ci:68:ARG:O	70:Ci:72:PHE:HD2	1.53	0.91
78:Co:65:LYS:HB3	78:Co:66:ILE:HD12	1.50	0.91
78:Co:65:LYS:H	78:Co:65:LYS:CD	1.82	0.91
80:CH:106:GLN:HB3	80:CH:107:GLU:CG	2.00	0.91
1:Az:191:THR:CG2	1:Az:192:TYR:CZ	2.53	0.91
6:AX:56:GLY:O	24:Ae:2:VAL:HG12	1.70	0.91
12:AR:13:ALA:HA	12:AR:54:VAL:HG22	1.50	0.91
12:AR:84:TYR:O	16:AA:85:ARG:NH2	2.03	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:84:TYR:O	12:AR:85:VAL:HG23	1.69	0.91
13:AP:125:PRO:O	13:AP:126:VAL:HG23	1.70	0.91
18:AY:44:LEU:CD1	18:AY:48:TYR:CE2	2.53	0.91
18:AY:52:PRO:HD2	18:AY:53:ASP:H	1.33	0.91
23:AD:145:GLN:NE2	35:Ah:167:GLY:N	2.15	0.91
29:AG:157:VAL:CG1	29:AG:158:VAL:N	2.30	0.91
30:AF:91:ARG:HH12	30:AF:94:LYS:CB	1.79	0.91
32:AW:35:VAL:O	32:AW:39:THR:HG23	1.70	0.91
38:Cz:17:VAL:HG22	38:Cz:206:ILE:HG21	1.50	0.91
39:Cq:22:ASP:OD1	39:Cq:66:ARG:CZ	2.18	0.91
39:Cq:242:ILE:HD13	83:Ct:63:VAL:HG21	1.49	0.91
41:CO:9:LEU:CD2	52:CS:167:PHE:CE1	2.37	0.91
41:CO:20:ALA:HB1	41:CO:87:MET:CE	1.99	0.91
42:CL:20:ARG:N	42:CL:20:ARG:CD	2.30	0.91
42:CL:94:ILE:CG2	42:CL:120:TYR:HE2	1.83	0.91
45:Ca:120:GLN:O	45:Ca:140:VAL:HG12	1.67	0.91
48:CD:256:LYS:HD3	48:CD:256:LYS:O	1.70	0.91
52:CS:17:LEU:HG	52:CS:58:SER:HA	1.53	0.91
55:CU:125:GLU:CD	55:CU:126:ASP:N	2.28	0.91
74:CC:5:ARG:CG	74:CC:24:LEU:CD1	2.27	0.91
81:CE:106:VAL:CB	81:CE:108:LYS:H	1.82	0.91
81:CE:111:LYS:CA	81:CE:113:PRO:HD3	1.99	0.91
82:CG:83:PHE:O	82:CG:85:GLN:N	2.04	0.91
1:Az:4:PHE:HD2	1:Az:5:THR:CG2	1.79	0.91
1:Az:518:PRO:CG	6:AX:50:ILE:HD11	1.71	0.91
2:Ag:32:LEU:CB	2:Ag:71:ILE:HD11	1.99	0.91
6:AX:5:ARG:O	32:AW:77:PRO:HD3	1.71	0.91
7:AM:61:TYR:HE1	7:AM:108:CYS:HG	1.15	0.91
11:AL:82:MET:HB2	11:AL:85:THR:CG2	2.00	0.91
15:AB:72:ALA:CA	15:AB:79:VAL:HG23	1.99	0.91
26:AJ:48:PHE:HE1	26:AJ:52:LYS:HE3	1.24	0.91
26:AJ:92:MET:C	26:AJ:93:LYS:HE3	1.96	0.91
30:AF:103:LEU:CD2	30:AF:178:ILE:CD1	2.22	0.91
38:Cz:120:ILE:CG1	38:Cz:124:LEU:HD12	2.00	0.91
39:Cq:110:ALA:HB2	39:Cq:181:SER:CB	2.01	0.91
39:Cq:123:VAL:CG1	39:Cq:154:ILE:HD13	2.00	0.91
46:CN:21:PHE:HE2	82:CG:80:ILE:HD13	1.20	0.91
51:CA:174:ARG:N	77:Cp:69:TRP:HZ3	1.67	0.91
55:CU:60:VAL:HA	55:CU:75:GLU:H	1.35	0.91
60:Cr:44:ILE:CG2	60:Cr:45:HIS:N	2.30	0.91
60:Cr:90:LEU:HD22	60:Cr:118:LEU:HD12	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Cb:55:LYS:NZ	62:Cb:59:ALA:CB	2.34	0.91
63:CB:219:VAL:HG13	63:CB:345:LEU:HD21	0.93	0.91
69:Cg:78:TYR:HE1	69:Cg:90:ARG:NH1	1.68	0.91
80:CH:93:ARG:HD2	80:CH:143:GLU:HG2	0.93	0.91
80:CH:134:CYS:SG	80:CH:146:LEU:CD2	2.59	0.91
81:CE:75:ALA:CA	81:CE:76:ALA:CB	2.47	0.91
82:CG:163:PRO:CG	82:CG:166:LEU:HD11	2.00	0.91
84:Cu:7:TYR:HE1	84:Cu:23:ILE:HD11	1.15	0.91
1:Az:512:LYS:HD3	1:Az:569:PRO:HB2	1.51	0.91
1:Az:613:LEU:HD22	1:Az:639:TYR:CG	2.06	0.91
1:Az:738:PRO:C	1:Az:824:PRO:HD2	1.94	0.91
5:AO:72:TYR:CD2	30:AF:135:ARG:NH2	2.38	0.91
6:AX:114:ASP:C	6:AX:116:PRO:HD3	1.94	0.91
12:AR:13:ALA:HA	12:AR:54:VAL:CG2	2.00	0.91
12:AR:85:VAL:CG2	16:AA:201:LEU:CG	2.48	0.91
15:AB:19:LYS:NZ	15:AB:19:LYS:CB	2.29	0.91
22:Ac:21:THR:HG22	22:Ac:22:GLY:N	1.77	0.91
26:AJ:17:ARG:CB	26:AJ:18:ARG:CG	2.48	0.91
26:AJ:110:LEU:HD13	26:AJ:130:ILE:HD11	0.92	0.91
28:AC:192:LEU:HD21	28:AC:227:ARG:HG3	1.53	0.91
30:AF:116:ILE:HD13	30:AF:116:ILE:H	1.30	0.91
33:AI:141:ARG:CG	33:AI:144:LYS:CB	2.37	0.91
34:AQ:72:VAL:HG21	34:AQ:84:ILE:HG23	1.52	0.91
40:CK:22:VAL:CG2	40:CK:48:LYS:CG	2.48	0.91
45:Ca:120:GLN:HB3	45:Ca:121:PRO:CD	1.98	0.91
46:CN:28:TRP:CZ3	82:CG:67:ARG:HD3	2.03	0.91
48:CD:58:ARG:NH1	48:CD:93:THR:HB	1.85	0.91
49:CQ:154:LYS:NZ	49:CQ:156:PRO:CD	2.30	0.91
53:CT:136:ARG:HD2	64:CF:86:GLU:HG3	1.50	0.91
56:CX:142:PRO:HD2	56:CX:143:ASP:H	1.34	0.91
57:CY:126:ARG:NH2	57:CY:130:LYS:HD3	1.85	0.91
60:Cr:119:ARG:CG	81:CE:112:MET:HE3	2.00	0.91
63:CB:165:HIS:HB2	63:CB:180:LEU:CD1	1.93	0.91
65:Cc:102:SER:HB2	65:Cc:104:ILE:CB	1.99	0.91
78:Co:31:ASP:O	78:Co:32:SER:HB3	1.68	0.91
81:CE:145:THR:HG21	81:CE:200:LYS:CD	2.00	0.91
83:Cs:22:THR:O	83:Cs:27:LYS:HD2	1.70	0.91
1:Az:114:GLU:OE2	1:Az:400:LYS:HD3	1.69	0.91
1:Az:762:VAL:HG13	1:Az:766:LYS:HZ2	1.31	0.91
1:Az:776:VAL:HG22	1:Az:777:ALA:N	1.83	0.91
7:AM:64:LEU:HD12	25:Af:104:LYS:NZ	1.85	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:89:PRO:O	14:AT:91:HIS:CD2	2.23	0.91
18:AY:34:THR:CG2	18:AY:35:VAL:N	2.33	0.91
25:Af:102:VAL:CG1	25:Af:103:LEU:N	2.29	0.91
27:AE:205:PHE:CE1	27:AE:221:ARG:NH1	2.39	0.91
28:AC:256:TRP:HB3	32:AW:68:ARG:HH11	1.30	0.91
29:AG:64:LYS:HD2	29:AG:64:LYS:O	1.69	0.91
33:AI:139:LYS:HB3	33:AI:145:ILE:HD13	1.51	0.91
39:Cq:60:MET:HE3	39:Cq:88:PHE:CE2	2.05	0.91
39:Cq:95:LEU:HB3	39:Cq:194:ASP:OD2	1.70	0.91
40:CK:8:ASN:C	40:CK:9:GLU:HG2	1.94	0.91
40:CK:46:ILE:HG22	40:CK:72:GLU:OE1	1.71	0.91
41:CO:128:ARG:HE	52:CS:161:ARG:CZ	1.84	0.91
42:CL:126:LEU:CD2	61:Ch:117:ARG:HH11	1.84	0.91
44:CM:81:ASP:O	44:CM:84:THR:HG23	1.70	0.91
49:CQ:132:LYS:CE	74:CC:301:ALA:HB1	2.01	0.91
54:CP:32:THR:HG21	54:CP:87:SER:HB3	1.52	0.91
55:CU:48:LYS:CE	55:CU:52:LYS:HG3	2.01	0.91
57:CY:34:LEU:CD1	57:CY:38:LEU:HD13	2.01	0.91
63:CB:61:ASP:OD1	63:CB:361:GLU:CD	2.14	0.91
82:CG:82:GLN:HG2	82:CG:233:ILE:HG22	1.53	0.91
82:CG:85:GLN:O	82:CG:183:ILE:CD1	2.19	0.91
82:CG:121:LYS:HD2	82:CG:121:LYS:C	1.93	0.91
82:CG:143:VAL:O	82:CG:146:LEU:HD11	1.69	0.91
82:CG:234:ARG:HH21	82:CG:234:ARG:CG	1.84	0.91
1:Az:72:SER:CB	1:Az:104:ASP:C	2.44	0.91
1:Az:745:TYR:CD1	1:Az:815:ASP:CB	2.10	0.91
2:Ag:40:ILE:HD11	2:Ag:80:SER:HB3	1.50	0.91
4:AK:84:HIS:ND1	4:AK:85:LEU:HA	1.85	0.91
7:AM:61:TYR:HE1	7:AM:108:CYS:SG	1.94	0.91
8:AS:129:LEU:HD22	36:B2:1521:C:H5'	1.53	0.91
10:AN:55:ARG:NH2	21:Ab:51:GLN:HE22	1.65	0.91
11:AL:125:ILE:HB	11:AL:146:THR:CG2	2.01	0.91
15:AB:49:VAL:HG22	15:AB:65:ARG:NH2	1.83	0.91
16:AA:180:ARG:HH11	16:AA:184:ARG:NH1	1.68	0.91
26:AJ:35:TYR:O	26:AJ:37:LEU:N	2.04	0.91
26:AJ:37:LEU:CD2	26:AJ:42:GLU:CB	2.49	0.91
27:AE:99:PHE:HE1	27:AE:113:ARG:HG3	1.20	0.91
28:AC:102:LEU:CD2	28:AC:130:ILE:HG23	1.99	0.91
40:CK:80:LEU:HA	40:CK:83:LYS:HD3	1.52	0.91
42:CL:65:ARG:NH2	45:Ca:66:ASN:OD1	2.03	0.91
48:CD:58:ARG:CD	48:CD:58:ARG:N	2.30	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:30:ASN:O	50:CR:34:ASN:OD1	1.89	0.91
53:CT:4:THR:HB	53:CT:9:ARG:NE	1.81	0.91
56:CX:153:ILE:HD11	61:Ch:33:VAL:HG11	1.52	0.91
63:CB:80:GLU:OE1	63:CB:171:LEU:HB3	1.70	0.91
66:Cd:25:TYR:CE1	66:Cd:56:GLU:CD	2.49	0.91
69:Cg:50:PRO:HG2	69:Cg:50:PRO:O	1.71	0.91
72:Ck:33:LYS:CG	72:Ck:46:VAL:HG22	2.01	0.91
2:Ag:12:LYS:HG2	2:Ag:13:GLY:H	1.26	0.91
3:AU:18:HIS:CE1	3:AU:98:VAL:HG21	2.06	0.91
4:AK:40:VAL:HG13	4:AK:41:PRO:N	1.86	0.91
8:AS:11:HIS:HD2	8:AS:23:ARG:HH21	1.16	0.91
8:AS:11:HIS:HD2	8:AS:23:ARG:HH22	1.15	0.91
13:AP:12:PHE:CZ	79:CJ:88:LYS:HE2	2.06	0.91
18:AY:32:LYS:HG2	18:AY:33:ALA:N	1.86	0.91
20:Aa:45:VAL:CG1	20:Aa:53:ILE:HD13	1.99	0.91
20:Aa:62:TYR:O	20:Aa:63:VAL:HB	1.15	0.91
23:AD:166:TYR:CD1	23:AD:200:PRO:CB	2.52	0.91
26:AJ:39:ASN:OD1	26:AJ:42:GLU:N	2.03	0.91
30:AF:44:LYS:HB3	30:AF:45:TYR:HE1	1.09	0.91
30:AF:71:ARG:HH21	30:AF:71:ARG:HG2	1.34	0.91
31:AH:10:LYS:CE	31:AH:17:ASP:N	2.28	0.91
31:AH:145:ARG:CD	32:AW:51:GLU:HG2	1.99	0.91
39:Cq:20:LEU:HD12	39:Cq:54:LEU:CD2	1.99	0.91
39:Cq:107:VAL:O	39:Cq:107:VAL:HG12	1.69	0.91
40:CK:12:VAL:CB	40:CK:65:GLN:OE1	2.18	0.91
40:CK:125:LEU:CD1	40:CK:163:PRO:HB3	1.99	0.91
44:CM:77:TRP:CG	44:CM:82:ILE:CG1	2.47	0.91
45:Ca:42:ARG:HH21	49:CQ:178:ARG:HH22	1.01	0.91
45:Ca:84:GLU:C	45:Ca:87:ARG:HG2	1.96	0.91
48:CD:184:ASP:OD1	48:CD:186:GLU:O	1.89	0.91
49:CQ:85:THR:HG22	49:CQ:104:ARG:CB	2.01	0.91
50:CR:119:MET:HE2	50:CR:119:MET:HA	1.49	0.91
52:CS:10:TYR:CE1	52:CS:66:GLN:CG	2.54	0.91
57:CY:53:ASP:OD2	57:CY:109:LEU:HD23	1.70	0.91
60:Cr:64:ILE:HD11	60:Cr:81:THR:HG21	0.92	0.91
68:Cf:53:ALA:CA	68:Cf:54:LYS:CG	2.46	0.91
74:CC:33:ARG:HD3	74:CC:122:TYR:OH	1.71	0.91
74:CC:310:HIS:CB	74:CC:311:ARG:HD2	1.78	0.91
78:Co:66:ILE:CD1	78:Co:66:ILE:N	2.29	0.91
78:Co:97:LYS:CD	78:Co:97:LYS:H	1.84	0.91
83:Cs:13:ALA:O	83:Cs:17:HIS:CD2	2.24	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Ct:44:PRO:HD2	83:Ct:45:GLY:N	1.85	0.91
1:Az:191:THR:HB	1:Az:192:TYR:CD2	2.05	0.91
1:Az:694:GLU:HG3	1:Az:844:LEU:CD1	1.98	0.91
1:Az:746:LEU:CG	1:Az:785:LYS:HD3	2.01	0.91
2:Ag:20:GLN:HE21	2:Ag:68:ASP:CB	1.84	0.91
4:AK:60:GLU:OE2	4:AK:67:PHE:CD1	2.21	0.91
8:AS:108:ARG:NH2	79:CJ:119:TYR:CZ	2.39	0.91
10:AN:125:LEU:CD1	10:AN:129:TYR:CE2	2.53	0.91
13:AP:49:LEU:HD13	13:AP:51:ARG:HE	1.34	0.91
26:AJ:89:GLU:N	26:AJ:92:MET:CG	2.32	0.91
27:AE:130:PHE:CG	27:AE:138:HIS:NE2	2.38	0.91
28:AC:263:LYS:NZ	28:AC:268:GLU:OE1	2.02	0.91
33:AI:142:SER:CA	33:AI:143:LYS:HB2	1.98	0.91
34:AQ:135:PRO:CD	34:AQ:141:TYR:CD1	2.54	0.91
36:B2:852:G:H5''	36:B2:853:C:OP2	1.69	0.91
39:Cq:66:ARG:HD2	39:Cq:69:LEU:HD22	0.91	0.91
41:CO:127:VAL:HG13	52:CS:158:VAL:CG2	1.99	0.91
49:CQ:62:SER:HB2	49:CQ:89:ASP:OD2	1.70	0.91
51:CA:32:VAL:CG2	51:CA:163:ARG:NH2	2.33	0.91
54:CP:131:ARG:HD3	54:CP:137:ASN:ND2	1.85	0.91
67:Ce:72:SER:HB2	67:Ce:74:PHE:HE2	1.36	0.91
69:Cg:37:LYS:HD3	69:Cg:60:ARG:NH2	1.86	0.91
74:CC:40:VAL:HG12	74:CC:44:LEU:CD1	2.01	0.91
74:CC:124:ILE:HD11	74:CC:237:ILE:CD1	2.01	0.91
74:CC:224:ILE:O	74:CC:227:ILE:HG22	1.71	0.91
74:CC:283:LYS:HB2	74:CC:283:LYS:HZ2	1.34	0.91
81:CE:46:ARG:NE	81:CE:46:ARG:CA	2.33	0.91
82:CG:163:PRO:HG2	82:CG:166:LEU:HD11	1.51	0.91
1:Az:628:LEU:HD21	1:Az:631:ARG:HH22	1.36	0.90
11:AL:147:LYS:HD2	11:AL:148:ALA:C	1.95	0.90
14:AT:31:PRO:HB2	14:AT:33:TRP:CE2	2.04	0.90
16:AA:57:LYS:HE2	17:AV:70:LEU:HD11	1.51	0.90
19:AZ:99:LEU:CD2	19:AZ:109:TYR:HE1	1.77	0.90
23:AD:177:LEU:HD23	23:AD:182:LEU:HD21	1.52	0.90
29:AG:36:VAL:HG12	29:AG:37:ALA:H	1.36	0.90
38:Cz:29:LEU:HD13	38:Cz:172:VAL:HG12	1.52	0.90
39:Cq:26:LYS:HZ3	39:Cq:91:THR:HG1	1.07	0.90
40:CK:81:ILE:HD12	40:CK:116:MET:HE2	1.52	0.90
42:CL:19:GLN:HE22	74:CC:108:TRP:HH2	1.14	0.90
46:CN:172:ARG:HH21	46:CN:174:LEU:HD11	0.75	0.90
46:CN:192:TRP:HA	46:CN:195:ARG:CD	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:72:ALA:O	47:CI:76:MET:CG	2.18	0.90
48:CD:56:THR:C	48:CD:58:ARG:H	1.72	0.90
52:CS:10:TYR:HE1	52:CS:66:GLN:CG	1.84	0.90
52:CS:17:LEU:CD2	52:CS:58:SER:CA	2.48	0.90
54:CP:41:ILE:HD13	54:CP:150:LEU:HD13	1.51	0.90
54:CP:95:LEU:CD1	54:CP:148:MET:CE	2.47	0.90
56:CX:80:PRO:CD	61:Ch:33:VAL:HG22	2.01	0.90
60:Cr:64:ILE:CD1	60:Cr:81:THR:HG23	1.90	0.90
60:Cr:90:LEU:HB2	60:Cr:118:LEU:HD21	1.52	0.90
63:CB:87:VAL:HG23	63:CB:163:ILE:HG22	1.51	0.90
64:CF:51:TYR:HE2	81:CE:58:SER:O	1.47	0.90
65:Cc:58:SER:OG	69:Cg:96:LEU:CD1	2.18	0.90
74:CC:24:LEU:HD23	74:CC:24:LEU:H	1.31	0.90
80:CH:110:SER:OG	80:CH:111:LEU:HA	1.69	0.90
1:Az:121:VAL:O	1:Az:415:ARG:NH1	2.04	0.90
1:Az:165:LEU:HD12	1:Az:305:MET:HE1	1.50	0.90
2:Ag:284:PRO:O	2:Ag:302:TYR:CD1	2.24	0.90
6:AX:74:LEU:CD1	6:AX:81:ILE:HD12	2.00	0.90
7:AM:13:ASP:CB	7:AM:16:THR:CB	2.28	0.90
12:AR:91:LEU:HD13	12:AR:92:ASP:CA	2.00	0.90
18:AY:61:ARG:N	18:AY:61:ARG:CD	2.35	0.90
18:AY:111:LYS:HZ3	18:AY:115:LYS:HZ1	1.16	0.90
29:AG:5:ILE:HD12	29:AG:16:ILE:HD12	1.50	0.90
29:AG:77:LEU:HD11	29:AG:95:LYS:HB2	1.51	0.90
29:AG:176:ILE:CG2	29:AG:179:LEU:CB	2.49	0.90
36:B2:24:C:H2'	36:B2:25:A:C8	2.05	0.90
39:Cq:245:TYR:OH	83:Ct:56:ILE:CG2	2.19	0.90
41:CO:181:ALA:CA	44:CM:126:GLU:HG2	2.00	0.90
44:CM:57:LEU:HD11	52:CS:154:LEU:HB2	1.52	0.90
46:CN:184:ILE:CG2	46:CN:185:GLY:N	2.34	0.90
49:CQ:36:ALA:HB1	49:CQ:45:GLN:HE21	1.33	0.90
52:CS:2:LYS:HZ1	52:CS:43:ARG:CG	1.81	0.90
52:CS:140:PRO:CD	52:CS:141:ALA:H	1.83	0.90
56:CX:119:ILE:CD1	56:CX:120:ASP:N	2.34	0.90
58:CW:76:VAL:CG1	58:CW:77:LYS:N	2.33	0.90
59:CZ:100:VAL:HA	59:CZ:106:LEU:HD21	1.53	0.90
61:Ch:101:ASN:O	61:Ch:103:LYS:HG3	1.71	0.90
69:Cg:37:LYS:CG	69:Cg:60:ARG:HH12	1.82	0.90
72:Ck:31:ASN:CB	72:Ck:46:VAL:CG1	2.47	0.90
74:CC:168:VAL:CG2	74:CC:224:ILE:CD1	2.46	0.90
81:CE:67:ALA:O	81:CE:71:ARG:HG3	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:143:VAL:HA	82:CG:146:LEU:CG	2.01	0.90
1:Az:40:VAL:O	1:Az:43:ALA:HB2	1.66	0.90
2:Ag:119:GLN:NE2	2:Ag:121:VAL:HG22	1.85	0.90
3:AU:108:PRO:O	3:AU:110:VAL:HG23	1.70	0.90
5:AO:31:CYS:HB2	5:AO:95:ILE:HG12	1.51	0.90
23:AD:197:LYS:N	23:AD:198:ILE:C	2.30	0.90
26:AJ:130:ILE:HG12	26:AJ:135:ILE:CD1	2.00	0.90
29:AG:164:LYS:O	29:AG:165:GLU:C	2.11	0.90
31:AH:107:LYS:C	31:AH:109:ARG:HA	1.96	0.90
31:AH:145:ARG:HD2	32:AW:51:GLU:CD	1.94	0.90
33:AI:191:GLU:O	33:AI:192:GLY:C	2.14	0.90
39:Cq:211:LEU:HD13	83:Cs:50:ALA:HB3	1.47	0.90
39:Cq:222:VAL:HG13	84:Cu:4:VAL:HG11	1.51	0.90
39:Cq:254:GLU:OE2	84:Cv:54:VAL:HG13	1.70	0.90
41:CO:108:ILE:HG21	41:CO:160:ARG:NH2	1.86	0.90
46:CN:145:ASN:OD1	46:CN:146:PRO:CD	2.18	0.90
47:CI:47:PRO:HB3	47:CI:171:TRP:CH2	2.06	0.90
47:CI:207:ASP:OD2	47:CI:208:LYS:HD2	1.71	0.90
50:CR:109:TYR:OH	50:CR:139:MET:HE2	1.71	0.90
54:CP:131:ARG:NH1	54:CP:137:ASN:HD22	1.69	0.90
56:CX:43:SER:N	82:CG:51:LEU:HD11	1.83	0.90
58:CW:77:LYS:O	58:CW:78:PHE:CG	2.24	0.90
63:CB:285:TYR:HE1	63:CB:363:ILE:CD1	1.78	0.90
72:Ck:2:PRO:HB2	85:A5:2692:U:H2'	1.52	0.90
74:CC:5:ARG:HH12	74:CC:26:ALA:HB2	1.37	0.90
74:CC:295:SER:OG	74:CC:298:ILE:HB	1.72	0.90
78:Co:66:ILE:HD11	78:Co:85:ILE:N	1.85	0.90
80:CH:12:ILE:HD12	80:CH:13:PRO:HD2	1.53	0.90
3:AU:22:ILE:HG12	3:AU:114:VAL:HG22	1.52	0.90
5:AO:128:ARG:HA	20:Aa:62:TYR:OH	1.68	0.90
15:AB:33:VAL:HG12	15:AB:44:ILE:HD12	1.53	0.90
21:Ab:2:PRO:HA	21:Ab:3:LEU:CD2	2.02	0.90
28:AC:256:TRP:CB	32:AW:68:ARG:HH11	1.84	0.90
30:AF:122:ARG:CZ	30:AF:193:LYS:HZ1	1.83	0.90
31:AH:143:ARG:NE	32:AW:53:ILE:HG23	1.86	0.90
34:AQ:42:ILE:CD1	34:AQ:51:LEU:CD1	2.50	0.90
34:AQ:92:LEU:HD11	34:AQ:96:TYR:CZ	2.07	0.90
38:Cz:204:LEU:CD1	38:Cz:216:LEU:HD11	1.99	0.90
39:Cq:225:VAL:CG2	84:Cu:55:ILE:HG12	2.02	0.90
41:CO:118:MET:HE1	52:CS:168:THR:C	1.96	0.90
45:Ca:119:LYS:HA	45:Ca:140:VAL:CG1	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:53:TYR:CE1	46:CN:59:TYR:HB3	2.06	0.90
48:CD:223:PHE:HB2	48:CD:226:TYR:CD2	2.07	0.90
49:CQ:30:LYS:HZ1	60:Cr:8:MET:HE3	1.34	0.90
51:CA:8:GLN:HE22	51:CA:231:ALA:HB1	1.35	0.90
52:CS:148:SER:O	52:CS:149:LYS:HB2	1.71	0.90
53:CT:142:ARG:O	53:CT:143:THR:HG22	1.71	0.90
65:Cc:26:LYS:HZ1	65:Cc:42:LYS:HZ1	0.90	0.90
72:Ck:13:LEU:HD23	72:Ck:16:ARG:HH21	1.35	0.90
74:CC:12:SER:HB2	74:CC:13:GLU:HG2	1.51	0.90
78:Co:25:GLN:HG2	78:Co:91:PHE:CZ	2.06	0.90
78:Co:55:ILE:HD12	78:Co:55:ILE:C	1.96	0.90
81:CE:75:ALA:HA	81:CE:76:ALA:CB	2.00	0.90
81:CE:282:TYR:HB3	81:CE:283:PRO:HD2	1.51	0.90
83:Ct:11:TYR:CB	84:Cv:9:LEU:HD21	2.00	0.90
2:Ag:71:ILE:HG22	2:Ag:72:SER:N	1.87	0.90
4:AK:17:LYS:CE	35:Ah:287:GLU:HG3	1.99	0.90
12:AR:121:GLN:C	12:AR:121:GLN:NE2	2.30	0.90
13:AP:70:MET:O	13:AP:71:GLU:HB2	1.68	0.90
19:AZ:85:ARG:HB3	19:AZ:85:ARG:CZ	2.01	0.90
33:AI:37:LYS:O	33:AI:59:ARG:CA	2.17	0.90
33:AI:140:LYS:HG3	33:AI:141:ARG:N	1.83	0.90
41:CO:185:VAL:N	44:CM:126:GLU:CD	2.27	0.90
44:CM:32:ASP:CA	52:CS:145:PHE:CZ	2.54	0.90
48:CD:152:ARG:NH1	79:CJ:145:LYS:NZ	2.18	0.90
49:CQ:61:LEU:HD13	49:CQ:139:LEU:HB3	1.54	0.90
51:CA:97:ASN:ND2	51:CA:100:ASN:ND2	2.19	0.90
53:CT:127:GLN:C	53:CT:127:GLN:NE2	2.29	0.90
55:CU:39:PHE:HE2	55:CU:70:ILE:HD12	1.07	0.90
57:CY:22:PRO:HD2	57:CY:25:ILE:CD1	2.00	0.90
69:Cg:22:LEU:HD21	69:Cg:32:TYR:HE1	1.37	0.90
74:CC:170:LEU:HD12	74:CC:171:LEU:N	1.86	0.90
83:Ct:40:GLU:OE1	83:Ct:43:TRP:NE1	2.04	0.90
85:A5:655:C:C2'	85:A5:656:C:H5''	2.00	0.90
1:Az:157:MET:HE2	1:Az:214:PHE:HE1	1.34	0.90
1:Az:480:VAL:HG13	1:Az:529:LYS:CA	1.98	0.90
1:Az:524:LEU:HD21	1:Az:536:CYS:CB	2.00	0.90
2:Ag:143:GLN:CD	2:Ag:144:ASP:HB2	1.96	0.90
12:AR:11:LYS:O	12:AR:15:VAL:HG23	1.72	0.90
12:AR:91:LEU:CD1	12:AR:91:LEU:H	1.85	0.90
18:AY:37:LYS:O	18:AY:40:ILE:CG2	2.20	0.90
23:AD:226:GLN:HA	23:AD:226:GLN:HE21	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:1:MET:HE1	36:B2:432:G:C8	2.06	0.90
27:AE:151:ASP:CB	29:AG:212:LEU:HD21	1.99	0.90
27:AE:153:LEU:HD13	27:AE:172:PHE:HZ	1.33	0.90
28:AC:171:GLY:C	28:AC:172:ASN:ND2	2.30	0.90
38:Cz:38:LEU:HB2	38:Cz:163:LEU:CD2	2.02	0.90
39:Cq:60:MET:CE	39:Cq:88:PHE:CE2	2.54	0.90
40:CK:78:SER:CA	40:CK:117:ARG:HH12	1.85	0.90
40:CK:92:ARG:O	40:CK:93:LYS:HB2	1.72	0.90
40:CK:97:ASN:OD1	40:CK:98:ILE:CD1	2.19	0.90
41:CO:169:ARG:NH1	41:CO:173:GLN:HG3	1.85	0.90
42:CL:55:ILE:CD1	42:CL:120:TYR:CG	2.55	0.90
45:Ca:73:VAL:HG23	45:Ca:108:TYR:HD1	1.34	0.90
49:CQ:124:ASP:OD2	74:CC:284:MET:CG	2.19	0.90
51:CA:242:ARG:CZ	51:CA:247:ARG:NH2	2.34	0.90
52:CS:83:ARG:HG3	52:CS:92:ASN:HD21	1.07	0.90
57:CY:34:LEU:HD21	57:CY:38:LEU:O	1.70	0.90
57:CY:55:VAL:HG12	57:CY:104:VAL:HG13	1.49	0.90
60:Cr:54:ALA:O	60:Cr:55:ALA:HB3	1.70	0.90
60:Cr:119:ARG:NH1	81:CE:112:MET:HE1	1.83	0.90
65:Cc:29:LEU:CD1	65:Cc:89:TYR:OH	2.19	0.90
67:Ce:6:PRO:HG3	67:Ce:93:LYS:CB	2.00	0.90
69:Cg:59:VAL:CG1	69:Cg:60:ARG:N	2.33	0.90
79:CJ:74:VAL:HG12	79:CJ:79:ALA:HB2	1.50	0.90
80:CH:110:SER:HB3	80:CH:128:MET:HB2	1.41	0.90
81:CE:140:LEU:CG	81:CE:167:GLN:OE1	2.18	0.90
81:CE:224:LYS:HA	81:CE:226:ARG:NH1	1.82	0.90
82:CG:96:LEU:CD1	82:CG:189:ARG:NH2	2.29	0.90
7:AM:67:ALA:HB1	25:Af:114:ILE:HG21	1.54	0.90
10:AN:142:GLU:CG	10:AN:144:SER:OG	2.19	0.90
11:AL:157:LYS:O	11:AL:158:PHE:CD2	2.25	0.90
12:AR:44:LYS:HE2	12:AR:47:ARG:NH2	1.86	0.90
13:AP:49:LEU:O	13:AP:50:ARG:C	2.08	0.90
16:AA:186:ARG:C	16:AA:186:ARG:NH1	2.30	0.90
23:AD:59:LEU:HD12	23:AD:60:GLY:H	1.26	0.90
24:Ae:1:LYS:O	24:Ae:2:VAL:HG22	1.70	0.90
26:AJ:170:PRO:HG2	26:AJ:175:ARG:HG2	1.52	0.90
39:Cq:245:TYR:OH	83:Ct:14:LEU:CD2	2.18	0.90
39:Cq:269:LEU:O	39:Cq:272:PRO:CG	2.19	0.90
40:CK:81:ILE:CD1	40:CK:116:MET:HE2	2.02	0.90
44:CM:25:VAL:HG12	44:CM:38:VAL:HG13	1.52	0.90
46:CN:146:PRO:O	46:CN:148:THR:N	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:26:ARG:HH12	60:Cr:11:ARG:HH21	1.13	0.90
50:CR:49:LEU:CD2	55:CU:122:GLU:OE1	2.20	0.90
52:CS:71:SER:HB2	52:CS:74:ARG:HB2	1.51	0.90
57:CY:50:ARG:HD3	57:CY:50:ARG:C	1.97	0.90
60:Cr:119:ARG:HH11	81:CE:112:MET:HE2	0.80	0.90
67:Ce:3:ALA:HB1	67:Ce:121:ARG:HD3	1.51	0.90
68:Cf:32:GLY:C	68:Cf:34:TYR:HD1	1.79	0.90
69:Cg:8:ARG:CB	69:Cg:34:TYR:OH	2.01	0.90
74:CC:311:ARG:HB3	74:CC:311:ARG:NH1	1.86	0.90
78:Co:97:LYS:N	78:Co:97:LYS:CD	2.30	0.90
81:CE:212:LEU:CG	81:CE:216:TYR:CB	2.49	0.90
1:Az:58:ASP:CA	1:Az:63:GLU:CD	2.45	0.90
2:Ag:26:GLN:HB2	2:Ag:74:ASP:HA	1.52	0.90
4:AK:28:HIS:CE1	9:Ad:8:TRP:HE1	1.87	0.90
6:AX:60:LYS:HE2	6:AX:116:PRO:CG	2.02	0.90
8:AS:58:GLU:O	8:AS:59:LEU:HD13	1.72	0.90
22:Ac:21:THR:CG2	22:Ac:22:GLY:H	1.81	0.90
26:AJ:127:ARG:HH12	26:AJ:145:PRO:CB	1.85	0.90
28:AC:192:LEU:HD21	28:AC:227:ARG:CG	2.00	0.90
33:AI:142:SER:HB2	33:AI:143:LYS:HZ3	1.32	0.90
35:Ah:155:ARG:CB	35:Ah:159:ASP:OD1	2.20	0.90
49:CQ:19:LYS:C	49:CQ:19:LYS:CD	2.30	0.90
51:CA:32:VAL:HG22	51:CA:163:ARG:NH2	1.87	0.90
51:CA:242:ARG:CZ	51:CA:247:ARG:HH21	1.84	0.90
58:CW:4:GLU:CD	58:CW:5:LEU:H	1.80	0.90
58:CW:57:ARG:NH2	58:CW:66:GLU:CD	2.27	0.90
63:CB:142:GLY:HA2	63:CB:147:GLU:N	1.87	0.90
65:Cc:26:LYS:NZ	65:Cc:42:LYS:NZ	2.19	0.90
65:Cc:28:VAL:HG11	65:Cc:33:GLN:HG2	0.91	0.90
66:Cd:93:ASN:HD22	66:Cd:98:SER:HB3	1.16	0.90
74:CC:128:LEU:HD11	74:CC:235:LEU:HD12	1.54	0.90
75:Cm:118:THR:HG22	75:Cm:120:ASN:H	1.35	0.90
79:CJ:144:LYS:O	79:CJ:148:THR:HG22	1.72	0.90
81:CE:283:PRO:O	81:CE:286:LEU:N	2.00	0.90
1:Az:106:PRO:CD	1:Az:115:VAL:HG22	2.00	0.90
1:Az:111:PHE:HB2	1:Az:501:VAL:HG21	1.53	0.90
1:Az:331:GLU:CD	1:Az:335:LEU:HD22	1.97	0.90
1:Az:539:GLU:O	1:Az:540:GLU:C	1.95	0.90
2:Ag:118:ARG:HH21	2:Ag:134:THR:HG23	1.37	0.90
12:AR:91:LEU:CD1	12:AR:91:LEU:N	2.29	0.90
13:AP:59:ARG:CD	13:AP:76:VAL:HG13	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:99:LEU:HD21	19:AZ:109:TYR:CE1	2.07	0.90
23:AD:46:THR:OG1	23:AD:79:PHE:HZ	1.29	0.90
27:AE:129:ILE:HG12	27:AE:139:LEU:HD22	1.08	0.90
28:AC:65:LYS:CE	28:AC:266:TYR:HE1	1.83	0.90
28:AC:70:VAL:HG22	28:AC:97:PHE:CE2	2.06	0.90
39:Cq:61:MET:HG2	39:Cq:82:ILE:HG21	1.49	0.90
40:CK:62:LEU:HD11	40:CK:73:VAL:HB	1.52	0.90
42:CL:127:PHE:N	42:CL:127:PHE:CD1	2.39	0.90
45:Ca:89:ASN:CG	45:Ca:90:ALA:H	1.79	0.90
45:Ca:89:ASN:CG	45:Ca:90:ALA:N	2.27	0.90
45:Ca:91:ALA:O	45:Ca:93:ASN:HA	1.72	0.90
52:CS:16:CYS:CA	52:CS:59:GLY:CA	2.48	0.90
57:CY:110:LYS:HD3	57:CY:111:LEU:N	1.86	0.90
60:Cr:76:SER:C	60:Cr:79:ARG:NE	2.24	0.90
60:Cr:122:LYS:C	60:Cr:126:VAL:HB	1.97	0.90
66:Cd:57:MET:HG2	66:Cd:90:ARG:HH11	1.29	0.90
74:CC:210:ILE:HD13	74:CC:252:TRP:CH2	2.05	0.90
74:CC:341:LEU:O	74:CC:343:GLN:N	2.04	0.90
80:CH:111:LEU:HD23	80:CH:127:ARG:HD2	1.49	0.90
2:Ag:143:GLN:CD	2:Ag:144:ASP:N	2.29	0.90
3:AU:25:THR:HG22	3:AU:86:LYS:HG2	1.54	0.90
4:AK:17:LYS:HE3	35:Ah:287:GLU:HG2	0.99	0.90
4:AK:65:ARG:HB3	4:AK:65:ARG:HH11	1.29	0.90
4:AK:71:LEU:HD21	4:AK:76:ILE:CD1	1.93	0.90
6:AX:29:LYS:HD2	6:AX:34:THR:CB	2.00	0.90
18:AY:34:THR:C	18:AY:35:VAL:HG22	1.97	0.90
18:AY:114:MET:HE1	18:AY:125:VAL:CG2	2.01	0.90
23:AD:157:MET:HE1	23:AD:187:LYS:HD3	0.90	0.90
26:AJ:89:GLU:CA	26:AJ:92:MET:CB	2.36	0.90
38:Cz:82:ILE:HD12	38:Cz:147:LYS:CD	2.02	0.90
39:Cq:182:PRO:HG2	39:Cq:183:PHE:HE2	1.29	0.90
39:Cq:241:ILE:HG22	39:Cq:245:TYR:CE2	2.06	0.90
46:CN:147:ASP:O	46:CN:150:TRP:CD1	2.25	0.90
48:CD:223:PHE:N	48:CD:223:PHE:CD2	2.29	0.90
51:CA:188:LYS:HD3	51:CA:189:TYR:CE2	2.07	0.90
53:CT:113:ASP:OD1	53:CT:114:GLN:N	2.04	0.90
59:CZ:3:LYS:O	59:CZ:6:LYS:HE2	1.69	0.90
61:Ch:87:LYS:HA	71:Cj:73:ARG:NH2	1.85	0.90
63:CB:47:LEU:HD23	63:CB:166:THR:HG23	0.90	0.90
63:CB:298:LEU:CA	63:CB:300:LYS:HE3	2.02	0.90
63:CB:391:PRO:O	63:CB:392:LEU:HD13	1.70	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Cd:80:VAL:HG13	66:Cd:81:PRO:HD3	1.54	0.90
78:Co:74:GLU:HB3	78:Co:75:PRO:HD3	0.90	0.90
81:CE:83:LYS:HB2	81:CE:84:LYS:HA	1.54	0.90
1:Az:284:LYS:N	1:Az:284:LYS:CD	2.34	0.89
1:Az:578:SER:C	1:Az:579:TYR:CD2	2.50	0.89
2:Ag:46:THR:CB	2:Ag:48:ASP:HB2	2.01	0.89
3:AU:62:ARG:NH1	3:AU:64:THR:HG23	1.87	0.89
13:AP:107:ILE:CA	13:AP:111:MET:SD	2.60	0.89
16:AA:30:LEU:HD11	16:AA:38:ILE:CD1	1.91	0.89
23:AD:132:LYS:N	23:AD:191:PRO:CG	2.34	0.89
24:Ae:30:GLY:HA3	26:AJ:38:ARG:NE	1.87	0.89
26:AJ:119:LEU:N	26:AJ:119:LEU:CD2	2.29	0.89
28:AC:70:VAL:CG1	28:AC:97:PHE:CZ	2.38	0.89
28:AC:70:VAL:CB	28:AC:97:PHE:CE2	2.54	0.89
28:AC:163:VAL:HB	28:AC:164:PRO:CD	2.02	0.89
35:Ah:150:GLU:O	35:Ah:151:PHE:HB2	1.44	0.89
42:CL:126:LEU:N	42:CL:138:ASP:CG	2.30	0.89
45:Ca:28:HIS:CE1	45:Ca:32:ARG:HE	1.88	0.89
47:CI:212:LEU:HG	47:CI:213:HIS:N	1.78	0.89
57:CY:21:ALA:O	57:CY:26:ARG:NE	2.04	0.89
79:CJ:35:ARG:HD2	79:CJ:123:ILE:O	1.71	0.89
81:CE:31:ASN:HA	81:CE:32:LEU:HD22	1.52	0.89
81:CE:46:ARG:CD	81:CE:47:ASN:H	1.85	0.89
81:CE:111:LYS:CB	81:CE:113:PRO:HD3	2.02	0.89
82:CG:46:GLN:HE21	82:CG:47:PRO:CD	1.81	0.89
2:Ag:150:TRP:HZ2	12:AR:33:ARG:HB3	1.13	0.89
5:AO:72:TYR:CG	30:AF:135:ARG:NH2	2.39	0.89
7:AM:67:ALA:CB	25:Af:108:VAL:HG21	2.01	0.89
10:AN:131:THR:O	11:AL:153:LYS:CG	2.20	0.89
15:AB:21:VAL:O	15:AB:21:VAL:HG23	1.70	0.89
16:AA:66:VAL:HG13	16:AA:186:ARG:CG	2.01	0.89
16:AA:97:THR:HG22	16:AA:98:PRO:CD	2.02	0.89
27:AE:208:VAL:CG1	27:AE:225:ILE:CD1	2.48	0.89
28:AC:108:LYS:HD3	28:AC:233:LEU:HD21	0.90	0.89
28:AC:117:ARG:CG	28:AC:118:ALA:H	1.86	0.89
29:AG:162:LEU:HG	29:AG:170:ARG:HB2	1.53	0.89
30:AF:18:LYS:HE3	34:AQ:115:TYR:HD1	1.34	0.89
31:AH:31:GLU:CD	31:AH:41:ARG:CD	2.45	0.89
39:Cq:248:VAL:CG1	84:Cv:4:VAL:HG11	2.00	0.89
46:CN:116:LEU:HD13	46:CN:135:ILE:HD12	1.54	0.89
46:CN:184:ILE:HG22	46:CN:185:GLY:H	1.33	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:106:ALA:N	47:CI:108:ALA:CB	2.33	0.89
47:CI:175:LYS:C	47:CI:176:PHE:CG	2.39	0.89
51:CA:77:ILE:CD1	51:CA:128:ARG:CZ	2.44	0.89
54:CP:29:THR:HA	54:CP:32:THR:HG21	1.49	0.89
57:CY:50:ARG:CD	57:CY:51:LYS:N	2.34	0.89
58:CW:88:ALA:C	58:CW:91:MET:SD	2.54	0.89
60:Cr:26:SER:C	60:Cr:31:ASN:ND2	2.30	0.89
69:Cg:5:LEU:HD22	69:Cg:32:TYR:CE1	2.07	0.89
69:Cg:47:GLY:C	69:Cg:48:VAL:HG23	1.97	0.89
74:CC:63:SER:OG	74:CC:80:ARG:HD3	1.71	0.89
79:CJ:20:LEU:CD1	79:CJ:132:VAL:CG2	2.51	0.89
80:CH:26:ILE:HG22	80:CH:35:ARG:HG2	1.52	0.89
80:CH:109:GLY:HA3	80:CH:128:MET:HB3	0.90	0.89
81:CE:95:PRO:O	81:CE:96:VAL:CG2	2.19	0.89
81:CE:283:PRO:HA	81:CE:286:LEU:CD1	2.01	0.89
82:CG:46:GLN:HE21	82:CG:47:PRO:HD2	1.11	0.89
82:CG:211:ASP:OD1	82:CG:214:ALA:CB	2.19	0.89
85:A5:2324:C:H2'	85:A5:2325:C:H6	1.37	0.89
10:AN:46:THR:OG1	10:AN:49:GLN:HG3	1.68	0.89
12:AR:17:ILE:HG21	12:AR:69:ILE:HD11	1.38	0.89
12:AR:99:ASP:O	12:AR:119:VAL:HG21	1.71	0.89
13:AP:127:LYS:C	13:AP:127:LYS:NZ	2.29	0.89
14:AT:11:GLN:NE2	14:AT:62:ARG:NH2	2.20	0.89
27:AE:98:ASN:HD21	27:AE:119:ALA:HB2	1.34	0.89
34:AQ:21:ALA:CB	34:AQ:72:VAL:HG22	2.03	0.89
34:AQ:24:HIS:NE2	34:AQ:69:ARG:HB2	1.86	0.89
38:Cz:58:THR:HG23	38:Cz:60:ARG:H	1.36	0.89
39:Cq:53:VAL:HG22	39:Cq:89:VAL:CG2	2.02	0.89
41:CO:168:TYR:HE2	41:CO:172:LYS:NZ	1.56	0.89
41:CO:177:LEU:HD22	44:CM:130:LEU:HG	1.52	0.89
44:CM:25:VAL:CG1	44:CM:38:VAL:HG13	2.02	0.89
47:CI:176:PHE:CD1	47:CI:176:PHE:N	2.30	0.89
49:CQ:75:ARG:O	49:CQ:78:LYS:HB2	1.71	0.89
59:CZ:10:VAL:C	59:CZ:83:THR:CG2	2.45	0.89
63:CB:395:ASP:CA	63:CB:396:ARG:HB2	1.93	0.89
67:Ce:5:ARG:CB	67:Ce:6:PRO:HD2	2.02	0.89
69:Cg:7:TYR:CE1	69:Cg:18:ASN:ND2	2.41	0.89
74:CC:28:PHE:HZ	74:CC:131:SER:HG	1.06	0.89
74:CC:40:VAL:HG22	74:CC:115:VAL:HG11	1.53	0.89
75:Cm:90:ASN:HD22	80:CH:176:LEU:CD2	1.86	0.89
81:CE:223:ARG:O	81:CE:224:LYS:CG	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:Cv:7:TYR:OH	84:Cv:42:VAL:CB	2.18	0.89
1:Az:750:GLN:HG3	1:Az:783:VAL:HG22	1.54	0.89
4:AK:41:PRO:O	4:AK:41:PRO:HD2	1.70	0.89
5:AO:19:PRO:HG3	5:AO:27:VAL:CB	2.01	0.89
5:AO:47:LEU:HB2	15:AB:67:PHE:CE1	2.07	0.89
7:AM:69:LEU:CD1	7:AM:76:LEU:HD23	2.02	0.89
10:AN:19:ARG:NH1	21:Ab:84:HIS:OXT	2.04	0.89
10:AN:92:ILE:HG22	10:AN:150:VAL:CG2	2.01	0.89
11:AL:82:MET:CE	36:B2:373:G:C4'	2.50	0.89
15:AB:52:THR:HG21	82:CG:264:LYS:HZ1	1.33	0.89
16:AA:52:LYS:HB3	16:AA:52:LYS:NZ	1.86	0.89
16:AA:76:VAL:HG21	16:AA:90:PHE:HD2	1.31	0.89
28:AC:210:PRO:CD	28:AC:236:PHE:CZ	2.55	0.89
28:AC:227:ARG:NH1	28:AC:228:GLY:CA	2.24	0.89
30:AF:63:LYS:CD	30:AF:71:ARG:HH12	1.86	0.89
31:AH:36:LEU:HD12	31:AH:36:LEU:C	1.95	0.89
31:AH:121:THR:HG23	31:AH:124:ALA:H	1.37	0.89
31:AH:158:LEU:HD21	31:AH:187:PHE:CE1	2.07	0.89
39:Cq:80:PRO:CB	39:Cq:81:HIS:CE1	2.55	0.89
45:Ca:89:ASN:ND2	45:Ca:90:ALA:H	1.70	0.89
54:CP:119:VAL:HG22	54:CP:146:ILE:HG12	1.53	0.89
56:CX:153:ILE:CD1	61:Ch:33:VAL:HG21	2.03	0.89
58:CW:4:GLU:HG2	58:CW:30:GLN:OE1	1.73	0.89
58:CW:63:GLN:HG2	58:CW:64:SER:N	1.87	0.89
64:CF:24:ASN:O	64:CF:27:GLU:N	2.05	0.89
65:Cc:13:SER:C	65:Cc:17:ARG:NE	2.31	0.89
65:Cc:59:GLU:OE1	69:Cg:92:LYS:HD2	1.73	0.89
65:Cc:92:CYS:SG	65:Cc:92:CYS:O	2.30	0.89
69:Cg:3:GLN:CD	69:Cg:29:ARG:CZ	2.45	0.89
74:CC:57:LEU:HD12	74:CC:61:GLN:HE21	1.34	0.89
74:CC:213:GLU:HA	74:CC:214:ASP:CB	1.98	0.89
81:CE:165:LEU:HD12	81:CE:174:LEU:CG	2.02	0.89
82:CG:21:LYS:O	82:CG:24:ALA:CB	2.17	0.89
83:Cs:21:VAL:HG13	83:Cs:27:LYS:HD3	1.54	0.89
1:Az:667:LYS:HZ3	1:Az:667:LYS:CB	1.84	0.89
1:Az:751:CYS:CB	1:Az:755:VAL:CG1	2.49	0.89
6:AX:91:LEU:O	6:AX:93:PHE:N	2.05	0.89
8:AS:132:ARG:CB	8:AS:134:GLN:OE1	2.14	0.89
10:AN:132:LYS:CE	10:AN:132:LYS:CA	2.28	0.89
14:AT:23:LYS:CD	14:AT:54:TYR:CE2	2.54	0.89
15:AB:73:ASP:OD2	20:Aa:59:PHE:HZ	1.46	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:85:ARG:NH1	19:AZ:85:ARG:CB	2.35	0.89
27:AE:128:LYS:CD	27:AE:130:PHE:HE1	1.84	0.89
28:AC:88:ILE:HD11	28:AC:93:ILE:HB	1.53	0.89
38:Cz:26:ARG:HD3	38:Cz:210:MET:CG	2.03	0.89
39:Cq:45:MET:SD	39:Cq:48:ARG:HG2	2.11	0.89
39:Cq:220:ARG:HH22	39:Cq:223:ALA:CB	1.86	0.89
40:CK:61:LYS:NZ	40:CK:72:GLU:HB3	1.88	0.89
40:CK:94:LYS:CG	40:CK:96:LYS:HB3	2.03	0.89
40:CK:114:ARG:HA	40:CK:133:LEU:CD1	2.02	0.89
40:CK:140:GLY:O	40:CK:141:CYS:SG	2.30	0.89
48:CD:92:LEU:HD12	48:CD:92:LEU:O	1.73	0.89
49:CQ:22:ASP:CG	74:CC:33:ARG:NE	2.29	0.89
49:CQ:27:LEU:HD23	74:CC:289:LEU:HD11	1.52	0.89
53:CT:132:PRO:HG2	64:CF:126:ASN:ND2	1.86	0.89
56:CX:89:LYS:HZ1	56:CX:97:VAL:HG22	0.79	0.89
56:CX:123:LYS:HZ3	56:CX:139:ARG:CB	1.81	0.89
61:Ch:47:ILE:HG23	61:Ch:48:ARG:H	1.36	0.89
61:Ch:73:TYR:HB3	61:Ch:79:LYS:HE2	0.90	0.89
71:Cj:89:ALA:O	71:Cj:90:ALA:CB	2.17	0.89
74:CC:253:THR:O	74:CC:256:ALA:CB	2.19	0.89
83:Ct:31:LEU:HD21	84:Cv:30:VAL:CA	2.03	0.89
85:A5:4936:G:OP2	85:A5:4936:G:C8	2.26	0.89
3:AU:24:LEU:HD23	3:AU:112:VAL:HG22	1.55	0.89
6:AX:95:GLU:CD	6:AX:140:ARG:NH2	2.31	0.89
8:AS:30:ILE:HD11	8:AS:45:LEU:HD21	1.54	0.89
8:AS:117:ILE:C	8:AS:118:ARG:HG2	1.94	0.89
15:AB:31:TYR:HE1	15:AB:94:LYS:H	1.20	0.89
18:AY:78:SER:HB2	18:AY:81:TYR:CE2	2.07	0.89
20:Aa:32:LYS:O	20:Aa:37:LYS:NZ	2.04	0.89
23:AD:51:LEU:HG	23:AD:91:VAL:HG22	1.51	0.89
29:AG:162:LEU:HD23	29:AG:172:LYS:CE	2.01	0.89
33:AI:62:VAL:CG2	33:AI:75:LYS:HE2	2.03	0.89
33:AI:76:THR:HG22	33:AI:77:ARG:N	1.87	0.89
34:AQ:49:TYR:O	34:AQ:53:GLU:HG3	1.71	0.89
38:Cz:24:LYS:HZ3	38:Cz:29:LEU:HD22	1.36	0.89
39:Cq:80:PRO:HG2	39:Cq:81:HIS:HE1	1.12	0.89
39:Cq:221:ASN:CG	84:Cu:55:ILE:CG2	2.46	0.89
40:CK:61:LYS:CE	40:CK:72:GLU:CG	2.48	0.89
45:Ca:84:GLU:HB2	45:Ca:87:ARG:HD2	1.53	0.89
47:CI:109:ASP:CA	47:CI:112:GLN:HE21	1.85	0.89
47:CI:156:LYS:HG3	47:CI:163:GLN:HG2	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:152:ARG:HH11	79:CJ:145:LYS:NZ	1.71	0.89
49:CQ:148:VAL:HG12	49:CQ:152:PHE:CZ	2.06	0.89
50:CR:68:LEU:O	50:CR:71:ARG:HG3	1.73	0.89
51:CA:120:PRO:CG	51:CA:162:ASN:OD1	2.20	0.89
60:Cr:123:PRO:HD2	60:Cr:124:VAL:N	1.85	0.89
61:Ch:21:LEU:CD1	61:Ch:54:ILE:HG23	2.03	0.89
63:CB:34:LYS:H	63:CB:34:LYS:CD	1.81	0.89
63:CB:108:GLU:CD	63:CB:137:TRP:CG	2.50	0.89
65:Cc:74:TYR:CE2	65:Cc:76:GLY:HA3	2.07	0.89
73:Cl:26:TRP:HA	73:Cl:29:MET:SD	2.12	0.89
74:CC:54:VAL:CG1	74:CC:55:SER:N	2.11	0.89
74:CC:76:ILE:HG22	74:CC:77:PRO:HD2	0.90	0.89
75:Cm:94:MET:HE1	75:Cm:123:PRO:CG	2.02	0.89
77:Cp:50:ARG:HD2	77:Cp:54:ILE:HD13	1.52	0.89
78:Co:65:LYS:HB3	78:Co:85:ILE:O	1.73	0.89
82:CG:39:PHE:HZ	82:CG:47:PRO:CG	1.80	0.89
82:CG:87:LEU:O	82:CG:88:ASP:O	1.90	0.89
82:CG:183:ILE:HG23	82:CG:184:ILE:C	1.96	0.89
82:CG:255:LYS:HE2	82:CG:259:LYS:HE3	1.51	0.89
83:Cs:16:LEU:CD2	83:Cs:31:LEU:CD1	2.51	0.89
83:Cs:21:VAL:HG13	83:Cs:27:LYS:CE	2.02	0.89
1:Az:845:LYS:HZ1	1:Az:846:GLU:N	1.70	0.89
2:Ag:282:GLU:HB3	2:Ag:283:PRO:CD	1.93	0.89
2:Ag:286:CYS:SG	2:Ag:300:ALA:HB1	2.12	0.89
5:AO:39:ASP:OD1	5:AO:40:THR:N	2.05	0.89
10:AN:28:LEU:CD1	10:AN:58:HIS:NE2	2.36	0.89
12:AR:17:ILE:HG21	12:AR:69:ILE:HD13	1.54	0.89
16:AA:5:LEU:CB	17:AV:41:LYS:CE	2.50	0.89
32:AW:85:ASP:O	32:AW:89:TRP:CD1	2.26	0.89
43:CV:32:THR:HG21	43:CV:113:LYS:HG3	1.52	0.89
44:CM:107:PHE:HE1	81:CE:270:TYR:CG	1.68	0.89
48:CD:56:THR:O	48:CD:58:ARG:HD3	1.71	0.89
50:CR:3:MET:O	50:CR:3:MET:SD	2.31	0.89
58:CW:8:PHE:HZ	58:CW:49:ILE:HD12	1.37	0.89
60:Cr:20:ARG:CG	67:Ce:77:PHE:HE1	1.84	0.89
60:Cr:46:ARG:NE	60:Cr:69:GLY:CA	2.34	0.89
62:Cb:75:LEU:HD11	62:Cb:79:LYS:HE2	0.92	0.89
63:CB:116:ARG:NE	63:CB:122:TRP:CD2	2.26	0.89
67:Ce:129:LEU:CD2	67:Ce:130:ARG:N	2.05	0.89
70:Ci:50:PHE:CZ	70:Ci:93:VAL:HG21	2.07	0.89
78:Co:25:GLN:NE2	78:Co:91:PHE:HE2	1.67	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:173:C:O2'	85:A5:174:C:O4'	1.89	0.89
1:Az:541:SER:O	1:Az:543:GLU:HG2	1.72	0.89
1:Az:585:GLU:CG	1:Az:737:GLN:NE2	2.36	0.89
9:Ad:23:VAL:HG21	9:Ad:38:MET:HE2	1.54	0.89
11:AL:17:PHE:CE2	11:AL:18:GLN:O	2.25	0.89
11:AL:22:ARG:HH12	33:AI:157:LYS:HB3	1.36	0.89
12:AR:100:PRO:CG	12:AR:119:VAL:HG22	2.02	0.89
14:AT:77:LYS:HB2	14:AT:94:ARG:HD3	0.90	0.89
18:AY:20:ARG:HD2	18:AY:74:MET:CE	2.01	0.89
21:Ab:10:PRO:CD	21:Ab:15:GLU:OE2	2.21	0.89
26:AJ:90:GLY:C	26:AJ:96:TYR:CE2	2.50	0.89
29:AG:65:GLN:CA	29:AG:100:CYS:SG	2.57	0.89
32:AW:30:CYS:SG	32:AW:61:ILE:HD11	2.12	0.89
34:AQ:7:LEU:HD23	34:AQ:8:GLN:OE1	1.69	0.89
34:AQ:58:LEU:HD23	34:AQ:111:ILE:CD1	1.95	0.89
39:Cq:198:ILE:CB	83:Cs:42:PHE:CZ	2.53	0.89
41:CO:16:LEU:CD1	41:CO:43:ILE:HG13	1.99	0.89
41:CO:54:TYR:HE2	41:CO:145:VAL:CG1	1.69	0.89
52:CS:24:THR:HG23	52:CS:25:PRO:N	1.84	0.89
53:CT:147:GLU:CB	53:CT:148:PRO:HD3	1.99	0.89
56:CX:128:ILE:HG22	73:Cl:10:LYS:NZ	1.88	0.89
58:CW:109:ILE:O	58:CW:113:LYS:HG3	1.71	0.89
60:Cr:82:ILE:O	60:Cr:83:ASN:CB	2.18	0.89
63:CB:108:GLU:CA	63:CB:137:TRP:NE1	2.36	0.89
63:CB:108:GLU:CA	63:CB:137:TRP:HE1	1.85	0.89
63:CB:311:ASP:O	63:CB:312:LYS:HE3	1.73	0.89
63:CB:381:THR:HG23	63:CB:384:GLU:H	1.37	0.89
63:CB:391:PRO:C	63:CB:392:LEU:CD2	2.44	0.89
64:CF:66:ARG:HG2	64:CF:66:ARG:HH11	1.36	0.89
66:Cd:24:GLU:HG3	66:Cd:122:VAL:HG23	1.54	0.89
68:Cf:36:ARG:O	68:Cf:40:GLU:HG2	1.72	0.89
74:CC:109:ARG:HB3	74:CC:109:ARG:HH11	1.37	0.89
74:CC:232:VAL:O	74:CC:263:LEU:HD12	1.73	0.89
79:CJ:95:ARG:HB2	79:CJ:97:ASN:ND2	1.87	0.89
80:CH:86:LEU:HD22	80:CH:189:GLN:HB2	1.53	0.89
83:Cs:11:TYR:CD2	84:Cu:12:LEU:HD12	2.06	0.89
1:Az:479:LEU:HD21	1:Az:483:GLY:CA	2.03	0.89
4:AK:59:LYS:HD2	4:AK:60:GLU:N	1.88	0.89
12:AR:44:LYS:HE3	12:AR:47:ARG:HH22	0.72	0.89
12:AR:83:ASN:C	16:AA:201:LEU:HD11	1.96	0.89
13:AP:33:LEU:HD23	13:AP:87:PRO:HD2	1.51	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:32:ASP:OD1	15:AB:46:LYS:HD2	1.73	0.89
21:Ab:12:PRO:HD2	21:Ab:13:GLU:N	1.86	0.89
21:Ab:33:MET:HE3	21:Ab:79:PHE:HB2	0.89	0.89
21:Ab:73:LEU:HD13	21:Ab:79:PHE:CE2	2.08	0.89
28:AC:210:PRO:HD3	28:AC:236:PHE:CZ	2.08	0.89
38:Cz:24:LYS:CD	38:Cz:172:VAL:HG11	2.03	0.89
38:Cz:67:VAL:CG1	38:Cz:111:LEU:HD13	2.02	0.89
39:Cq:134:LYS:O	39:Cq:137:PHE:HB2	1.71	0.89
39:Cq:254:GLU:OE1	84:Cv:54:VAL:CG2	2.20	0.89
40:CK:10:ILE:HB	40:CK:67:ARG:H	1.38	0.89
46:CN:80:THR:OG1	46:CN:87:HIS:HD2	1.49	0.89
47:CI:104:SER:O	47:CI:105:CYS:HB2	1.71	0.89
50:CR:142:ILE:HA	50:CR:145:LEU:CD1	2.03	0.89
54:CP:27:LYS:HG2	54:CP:63:TYR:CD1	2.07	0.89
61:Ch:36:VAL:C	61:Ch:38:GLY:H	1.52	0.89
63:CB:21:ARG:CG	63:CB:274:TYR:CD2	2.55	0.89
63:CB:140:GLU:CD	63:CB:144:LYS:HZ3	1.81	0.89
63:CB:297:LYS:HD2	63:CB:300:LYS:HZ3	1.30	0.89
74:CC:22:VAL:HG22	74:CC:258:ARG:HH21	1.32	0.89
77:Cp:52:VAL:HG13	77:Cp:68:ALA:HA	1.54	0.89
1:Az:191:THR:HB	1:Az:192:TYR:CE2	2.07	0.89
1:Az:420:LEU:CB	1:Az:465:PRO:HA	2.03	0.89
1:Az:543:GLU:OE2	1:Az:576:VAL:HG23	1.72	0.89
6:AX:107:ARG:O	6:AX:110:HIS:ND1	2.05	0.89
13:AP:41:GLN:CG	13:AP:84:ILE:HG23	2.03	0.89
16:AA:191:ARG:HG3	16:AA:193:HIS:HB2	1.55	0.89
23:AD:200:PRO:O	23:AD:201:LYS:HG2	1.73	0.89
36:B2:530:U:C6	36:B2:531:A:C8	2.60	0.89
38:Cz:80:VAL:HG13	38:Cz:148:VAL:CG2	2.03	0.89
48:CD:56:THR:C	48:CD:58:ARG:N	2.22	0.89
48:CD:130:TYR:OH	48:CD:132:VAL:HG22	1.73	0.89
49:CQ:105:VAL:HG12	49:CQ:106:THR:O	1.73	0.89
51:CA:5:ILE:HD13	51:CA:210:PRO:HD3	1.52	0.89
52:CS:20:PRO:O	52:CS:21:LYS:HD3	1.73	0.89
53:CT:150:LEU:HD23	53:CT:151:LEU:N	1.88	0.89
67:Ce:45:VAL:HG12	67:Ce:55:MET:HE3	0.91	0.89
79:CJ:113:ILE:HD13	79:CJ:113:ILE:H	1.36	0.89
81:CE:85:LYS:HB2	81:CE:92:VAL:CG1	2.03	0.89
81:CE:242:ILE:HD13	81:CE:246:ARG:HH11	1.38	0.89
1:Az:228:PHE:CD1	1:Az:232:TYR:CE2	2.61	0.88
1:Az:751:CYS:O	1:Az:781:MET:HB3	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:103:LEU:HD12	8:AS:104:ASP:N	1.87	0.88
18:AY:44:LEU:HD11	18:AY:48:TYR:HE2	1.06	0.88
22:Ac:10:LYS:HD2	22:Ac:61:SER:HB3	1.54	0.88
28:AC:170:TRP:HH2	32:AW:97:ARG:NH1	1.39	0.88
30:AF:167:LYS:CD	30:AF:171:GLU:HG3	1.99	0.88
30:AF:201:LYS:HE3	30:AF:204:ARG:NH2	1.88	0.88
33:AI:62:VAL:CB	33:AI:75:LYS:HE2	2.02	0.88
39:Cq:221:ASN:OD1	84:Cu:55:ILE:HG22	1.72	0.88
39:Cq:242:ILE:HG12	83:Ct:63:VAL:HG21	1.53	0.88
39:Cq:276:VAL:C	39:Cq:280:PRO:HD3	1.98	0.88
44:CM:57:LEU:CD1	52:CS:154:LEU:HB2	2.04	0.88
46:CN:120:TRP:HD1	46:CN:128:LYS:HZ3	0.92	0.88
49:CQ:28:LEU:CD1	49:CQ:51:LEU:HD13	2.03	0.88
51:CA:23:ARG:C	51:CA:24:LYS:HE2	1.98	0.88
57:CY:39:ARG:O	57:CY:43:ASN:OD1	1.91	0.88
81:CE:85:LYS:C	81:CE:92:VAL:HG13	1.97	0.88
82:CG:27:VAL:O	82:CG:31:LEU:CD1	2.21	0.88
82:CG:183:ILE:HG22	82:CG:183:ILE:O	1.66	0.88
82:CG:208:ASN:HD22	82:CG:210:GLU:CG	1.78	0.88
1:Az:103:ILE:CD1	1:Az:122:THR:HG21	2.02	0.88
1:Az:845:LYS:NZ	1:Az:846:GLU:CG	2.30	0.88
2:Ag:219:TRP:CE3	2:Ag:226:HIS:CD2	2.61	0.88
11:AL:147:LYS:CG	11:AL:148:ALA:N	2.29	0.88
13:AP:111:MET:O	13:AP:114:HIS:HD2	1.54	0.88
16:AA:125:THR:HA	16:AA:147:LEU:HB2	1.55	0.88
23:AD:59:LEU:HD12	23:AD:60:GLY:CA	2.02	0.88
23:AD:148:LYS:HZ2	35:Ah:177:ARG:HH11	1.19	0.88
23:AD:195:THR:HG22	23:AD:197:LYS:HG2	1.53	0.88
24:Ae:31:ARG:HG3	26:AJ:37:LEU:O	1.73	0.88
28:AC:117:ARG:HG3	28:AC:118:ALA:N	1.84	0.88
28:AC:256:TRP:HB3	32:AW:68:ARG:HH12	1.37	0.88
29:AG:98:ARG:HD3	29:AG:98:ARG:C	1.92	0.88
30:AF:91:ARG:HE	30:AF:91:ARG:CA	1.85	0.88
31:AH:43:LEU:HD13	31:AH:72:PHE:CE1	2.07	0.88
35:Ah:148:GLY:O	35:Ah:150:GLU:N	2.07	0.88
35:Ah:150:GLU:C	35:Ah:153:VAL:HG11	1.98	0.88
39:Cq:269:LEU:HA	39:Cq:272:PRO:CG	2.02	0.88
40:CK:94:LYS:HB3	40:CK:96:LYS:HE3	1.56	0.88
40:CK:117:ARG:NE	40:CK:117:ARG:HA	1.86	0.88
43:CV:127:ASP:OD2	63:CB:66:LYS:NZ	2.05	0.88
44:CM:19:PRO:HD2	44:CM:20:HIS:N	1.84	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:36:LEU:CD2	46:CN:109:HIS:HD2	1.81	0.88
46:CN:46:ASP:C	46:CN:50:ARG:NH1	2.31	0.88
52:CS:17:LEU:HD23	52:CS:58:SER:C	1.97	0.88
57:CY:34:LEU:CD1	57:CY:38:LEU:HB3	1.92	0.88
60:Cr:27:THR:N	60:Cr:31:ASN:ND2	2.20	0.88
60:Cr:123:PRO:HB3	60:Cr:127:LYS:HD2	1.52	0.88
63:CB:311:ASP:O	63:CB:312:LYS:CE	2.21	0.88
66:Cd:12:LYS:HD2	66:Cd:13:GLY:HA3	0.91	0.88
67:Ce:12:ILE:H	67:Ce:12:ILE:HD12	1.36	0.88
81:CE:45:SER:HB3	81:CE:49:VAL:HG12	1.52	0.88
1:Az:243:GLN:O	1:Az:249:ARG:NE	2.07	0.88
1:Az:284:LYS:CD	1:Az:284:LYS:H	1.87	0.88
2:Ag:5:MET:CE	2:Ag:312:VAL:HG22	2.02	0.88
6:AX:5:ARG:HH21	6:AX:5:ARG:CB	1.86	0.88
8:AS:8:LYS:HE3	8:AS:9:PHE:CE1	2.07	0.88
14:AT:4:VAL:HA	14:AT:8:ASP:OD2	1.72	0.88
14:AT:23:LYS:HD3	14:AT:54:TYR:CE2	2.08	0.88
16:AA:11:LYS:CD	16:AA:13:GLU:HG3	2.03	0.88
18:AY:29:HIS:ND1	18:AY:67:GLY:HA2	1.87	0.88
19:AZ:48:VAL:O	19:AZ:48:VAL:HG12	1.72	0.88
26:AJ:170:PRO:CA	26:AJ:174:LYS:HZ3	1.85	0.88
28:AC:64:THR:HG23	28:AC:90:GLU:OE1	1.72	0.88
28:AC:69:LEU:HD11	28:AC:273:LEU:CD1	2.01	0.88
28:AC:275:LYS:HD2	28:AC:276:THR:CG2	2.03	0.88
35:Ah:296:ILE:O	35:Ah:298:ASN:CG	2.14	0.88
38:Cz:143:ASN:N	38:Cz:146:ALA:HB3	1.89	0.88
39:Cq:212:HIS:CE1	83:Cs:59:LEU:HD11	2.09	0.88
41:CO:131:PRO:HG3	52:CS:156:HIS:NE2	1.88	0.88
46:CN:65:ARG:CD	46:CN:129:PHE:HE1	1.86	0.88
47:CI:52:MET:HE1	47:CI:155:ALA:HB3	1.56	0.88
49:CQ:30:LYS:HZ2	60:Cr:8:MET:HE3	1.33	0.88
52:CS:145:PHE:O	52:CS:147:ASP:N	2.05	0.88
54:CP:86:LYS:O	54:CP:90:PHE:HD2	1.55	0.88
57:CY:34:LEU:HD11	57:CY:38:LEU:HD13	1.55	0.88
60:Cr:64:ILE:HG13	60:Cr:81:THR:CG2	2.01	0.88
63:CB:53:MET:HG2	63:CB:76:VAL:O	1.73	0.88
65:Cc:58:SER:CA	65:Cc:61:GLU:OE1	2.19	0.88
66:Cd:75:LYS:HB2	66:Cd:79:ASN:CB	2.02	0.88
73:Cl:2:SER:OG	73:Cl:5:LYS:CG	2.18	0.88
74:CC:109:ARG:CD	74:CC:111:TRP:CH2	2.55	0.88
74:CC:316:LYS:HB2	74:CC:324:ILE:CD1	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:17:ILE:CD1	79:CJ:83:LEU:CD1	2.51	0.88
80:CH:41:ILE:O	80:CH:42:ASN:CG	2.16	0.88
80:CH:86:LEU:HD21	80:CH:189:GLN:CB	2.00	0.88
82:CG:28:VAL:N	82:CG:31:LEU:HD21	1.87	0.88
82:CG:43:GLN:O	82:CG:44:ASP:HB2	1.72	0.88
83:Cs:54:VAL:CG1	83:Cs:59:LEU:CD1	2.51	0.88
83:Ct:21:VAL:HG12	83:Ct:27:LYS:CD	1.99	0.88
7:AM:12:MET:HE1	7:AM:120:ALA:HB2	1.54	0.88
8:AS:59:LEU:HD13	8:AS:59:LEU:N	1.85	0.88
11:AL:102:PHE:N	11:AL:102:PHE:CD1	2.39	0.88
12:AR:20:TYR:CE1	12:AR:38:ILE:CG2	2.37	0.88
16:AA:66:VAL:HG22	16:AA:186:ARG:CD	2.03	0.88
17:AV:27:LYS:NZ	28:AC:82:TYR:CE1	2.40	0.88
18:AY:12:PHE:HZ	18:AY:21:LYS:CB	1.85	0.88
18:AY:29:HIS:HE1	18:AY:67:GLY:C	1.57	0.88
20:Aa:28:ARG:HH12	20:Aa:30:VAL:HG22	0.87	0.88
23:AD:97:CYS:SG	23:AD:99:ILE:HG12	2.13	0.88
29:AG:57:ASP:OD2	29:AG:98:ARG:CG	2.21	0.88
33:AI:25:ARG:HD2	33:AI:27:TYR:CD2	2.08	0.88
33:AI:153:LYS:O	33:AI:154:LYS:CB	2.20	0.88
41:CO:127:VAL:CG1	52:CS:158:VAL:CG2	2.50	0.88
43:CV:110:GLY:CA	43:CV:129:TRP:HZ3	1.80	0.88
47:CI:48:LEU:HD13	47:CI:49:GLY:N	1.88	0.88
47:CI:101:LYS:O	47:CI:103:LEU:HD22	1.71	0.88
47:CI:164:LYS:CE	47:CI:166:HIS:CE1	2.57	0.88
49:CQ:150:ARG:HB3	49:CQ:164:LYS:CG	2.02	0.88
51:CA:120:PRO:N	51:CA:162:ASN:OD1	2.05	0.88
53:CT:136:ARG:HD2	64:CF:86:GLU:CG	2.03	0.88
59:CZ:57:MET:HE2	59:CZ:61:LYS:CB	1.98	0.88
60:Cr:26:SER:CA	60:Cr:34:ALA:O	2.21	0.88
64:CF:101:VAL:CG1	64:CF:106:ARG:HD2	2.03	0.88
64:CF:162:ILE:CG2	64:CF:177:ARG:HH22	1.86	0.88
68:Cf:33:VAL:HG12	68:Cf:81:SER:O	1.71	0.88
77:Cp:47:MET:SD	77:Cp:57:CYS:CB	2.61	0.88
81:CE:138:ARG:NH2	81:CE:171:GLY:N	2.20	0.88
81:CE:224:LYS:HB3	81:CE:226:ARG:NH1	1.81	0.88
83:Cs:32:ILE:HG23	83:Cs:37:VAL:HB	1.54	0.88
1:Az:72:SER:CB	1:Az:104:ASP:O	2.22	0.88
1:Az:113:SER:HA	1:Az:499:PHE:HB3	1.53	0.88
1:Az:693:CYS:CB	1:Az:835:VAL:HG13	2.03	0.88
8:AS:14:ARG:HH12	8:AS:17:ASN:HA	0.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:80:MET:CE	11:AL:121:GLN:CA	2.51	0.88
18:AY:55:ILE:CG1	18:AY:75:ILE:CD1	2.46	0.88
21:Ab:8:LEU:HG	32:AW:62:VAL:HG11	1.52	0.88
23:AD:123:LEU:CD2	23:AD:154:ASP:HB3	2.03	0.88
23:AD:221:THR:HB	23:AD:222:PRO:CD	2.03	0.88
25:Af:108:VAL:CG2	25:Af:114:ILE:CG2	2.42	0.88
26:AJ:170:PRO:HA	26:AJ:174:LYS:HZ3	1.30	0.88
29:AG:210:ALA:HA	29:AG:213:LEU:HD21	1.55	0.88
29:AG:213:LEU:HD12	29:AG:214:ALA:N	1.89	0.88
30:AF:47:LYS:CG	34:AQ:117:ARG:NH2	2.30	0.88
38:Cz:155:ILE:CD1	38:Cz:167:VAL:HG21	2.02	0.88
42:CL:64:VAL:HA	42:CL:67:HIS:HD2	1.16	0.88
45:Ca:73:VAL:HG21	45:Ca:108:TYR:CD1	1.93	0.88
51:CA:94:ALA:CB	51:CA:102:LEU:HD21	2.03	0.88
51:CA:247:ARG:O	51:CA:247:ARG:HD2	1.73	0.88
54:CP:29:THR:CA	54:CP:32:THR:CG2	2.49	0.88
61:Ch:96:ASN:O	61:Ch:100:GLU:CG	2.20	0.88
67:Ce:38:PRO:HG3	67:Ce:55:MET:HE2	1.53	0.88
73:Cl:44:TRP:CE3	73:Cl:45:ARG:HG2	2.08	0.88
78:Co:103:VAL:CG1	79:CJ:63:ARG:NE	2.36	0.88
80:CH:93:ARG:NE	80:CH:143:GLU:OE2	2.06	0.88
81:CE:85:LYS:HB2	81:CE:92:VAL:HG12	1.55	0.88
81:CE:106:VAL:CG2	81:CE:107:VAL:HG13	2.04	0.88
1:Az:576:VAL:C	1:Az:577:VAL:CG2	2.47	0.88
9:Ad:22:ARG:HH22	23:AD:16:ILE:CG2	1.87	0.88
13:AP:53:GLN:HE21	13:AP:80:LEU:CD1	1.85	0.88
18:AY:20:ARG:CD	18:AY:74:MET:CE	2.51	0.88
18:AY:92:ALA:HA	18:AY:97:TYR:HB3	1.53	0.88
24:Ae:46:VAL:N	24:Ae:47:PRO:CD	2.36	0.88
26:AJ:134:HIS:O	26:AJ:135:ILE:CG2	2.22	0.88
27:AE:133:THR:O	27:AE:134:LYS:HB2	1.74	0.88
31:AH:14:GLU:OE1	31:AH:16:PRO:HG2	1.74	0.88
31:AH:158:LEU:HD21	31:AH:187:PHE:HE1	1.36	0.88
34:AQ:112:LEU:CD2	34:AQ:119:LEU:HD13	1.99	0.88
38:Cz:24:LYS:HD3	38:Cz:172:VAL:CG1	2.04	0.88
41:CO:65:ASN:HD22	41:CO:68:ARG:NE	1.72	0.88
41:CO:192:TYR:HD2	44:CM:122:ILE:HD13	1.22	0.88
51:CA:5:ILE:HD11	51:CA:210:PRO:HD3	1.53	0.88
52:CS:83:ARG:HG3	52:CS:92:ASN:HD22	1.31	0.88
52:CS:146:HIS:ND1	52:CS:146:HIS:O	2.07	0.88
63:CB:299:ILE:CG2	63:CB:299:ILE:O	2.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Cg:38:VAL:HG13	69:Cg:39:GLY:H	1.33	0.88
74:CC:146:GLU:HG2	74:CC:175:LYS:CE	2.02	0.88
77:Cp:47:MET:SD	77:Cp:56:HIS:C	2.56	0.88
80:CH:25:VAL:HG21	80:CH:38:PHE:CE2	2.09	0.88
81:CE:96:VAL:HG12	81:CE:97:GLY:N	1.86	0.88
1:Az:829:SER:OG	1:Az:832:SER:C	2.16	0.88
4:AK:83:LEU:HD13	4:AK:85:LEU:CD2	2.02	0.88
12:AR:92:ASP:O	12:AR:93:GLN:HB3	1.74	0.88
16:AA:125:THR:HG22	16:AA:175:TRP:HE1	1.39	0.88
19:AZ:92:LEU:HD23	19:AZ:97:ILE:HG13	1.54	0.88
25:Af:106:TYR:CZ	25:Af:131:PHE:HZ	1.92	0.88
28:AC:256:TRP:CG	32:AW:68:ARG:HD3	2.09	0.88
32:AW:128:PHE:CE1	32:AW:130:PHE:CD2	2.61	0.88
34:AQ:61:GLU:O	34:AQ:63:PHE:N	2.07	0.88
39:Cq:199:TYR:CE1	39:Cq:204:LEU:HA	2.08	0.88
40:CK:117:ARG:HG2	40:CK:133:LEU:HD13	1.54	0.88
42:CL:21:ARG:CG	46:CN:196:ASN:O	2.22	0.88
43:CV:57:VAL:HG13	43:CV:125:CYS:SG	2.13	0.88
43:CV:89:ARG:HB2	43:CV:95:PHE:CE1	2.08	0.88
48:CD:146:LEU:HD11	48:CD:163:LEU:CG	2.04	0.88
52:CS:10:TYR:CE1	52:CS:66:GLN:HG3	2.09	0.88
53:CT:143:THR:O	53:CT:146:LYS:N	2.06	0.88
59:CZ:15:ALA:HA	59:CZ:19:SER:HB2	1.56	0.88
63:CB:112:ASP:O	63:CB:113:GLU:C	2.04	0.88
71:Cj:76:HIS:O	71:Cj:79:ARG:HG2	1.74	0.88
80:CH:47:LEU:HD12	80:CH:55:LEU:CD2	1.97	0.88
80:CH:109:GLY:HA2	80:CH:128:MET:CG	2.04	0.88
80:CH:118:LEU:HD23	80:CH:177:ASP:OD2	1.72	0.88
81:CE:46:ARG:HE	81:CE:46:ARG:CA	1.87	0.88
81:CE:264:ILE:HG22	81:CE:266:GLN:H	1.37	0.88
81:CE:284:HIS:CE1	81:CE:285:LYS:HD2	2.08	0.88
82:CG:83:PHE:HE1	82:CG:159:HIS:HA	1.07	0.88
83:Cs:17:HIS:CE1	83:Cs:23:VAL:HG21	2.07	0.88
84:Cv:7:TYR:CE1	84:Cv:23:ILE:HD11	2.09	0.88
1:Az:49:ALA:HA	1:Az:55:ARG:NH2	1.88	0.88
1:Az:101:ASN:CG	1:Az:469:ILE:HD13	1.98	0.88
1:Az:662:LEU:HD21	1:Az:683:PHE:CG	2.08	0.88
3:AU:27:ARG:O	3:AU:28:ASN:C	2.11	0.88
8:AS:31:THR:HA	8:AS:36:VAL:CG2	2.02	0.88
11:AL:76:VAL:HG12	11:AL:125:ILE:HD13	1.53	0.88
13:AP:41:GLN:CG	13:AP:84:ILE:CB	2.31	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:135:LEU:CD2	15:AB:217:MET:SD	2.62	0.88
16:AA:133:PRO:HD2	16:AA:134:LEU:N	1.82	0.88
17:AV:81:LYS:HD3	17:AV:81:LYS:H	1.32	0.88
19:AZ:44:LEU:HD13	19:AZ:45:ASN:N	1.87	0.88
23:AD:18:LYS:HD2	23:AD:18:LYS:O	1.74	0.88
27:AE:124:CYS:SG	27:AE:162:ILE:HD13	2.14	0.88
28:AC:157:LEU:HA	28:AC:160:LEU:HD23	1.56	0.88
31:AH:101:LEU:HG	31:AH:120:ARG:HG2	1.54	0.88
34:AQ:12:VAL:HG12	34:AQ:13:PHE:N	1.89	0.88
34:AQ:111:ILE:O	34:AQ:114:GLN:HG2	1.74	0.88
39:Cq:26:LYS:HD3	39:Cq:94:ASP:O	1.69	0.88
40:CK:123:ARG:HG2	40:CK:124:GLU:H	1.34	0.88
41:CO:38:CYS:SG	41:CO:104:VAL:HG13	2.13	0.88
42:CL:116:ARG:NH1	42:CL:155:MET:HB2	1.89	0.88
47:CI:24:ARG:HD3	47:CI:24:ARG:O	1.72	0.88
48:CD:41:LYS:CE	53:CT:93:ILE:CD1	2.50	0.88
49:CQ:95:VAL:HG22	49:CQ:116:ALA:CB	2.03	0.88
64:CF:51:TYR:CE1	81:CE:58:SER:HB3	2.09	0.88
70:CI:23:LYS:HB2	70:CI:24:PRO:CD	2.03	0.88
70:CI:74:LYS:HD2	70:CI:74:LYS:C	1.99	0.88
74:CC:124:ILE:CD1	74:CC:237:ILE:HD12	2.04	0.88
81:CE:54:ILE:HG22	81:CE:55:GLY:N	1.88	0.88
1:Az:112:SER:O	1:Az:115:VAL:N	2.07	0.88
6:AX:108:LYS:HB3	6:AX:110:HIS:NE2	1.89	0.88
11:AL:149:ALA:HB1	11:AL:156:GLN:HB3	0.89	0.88
17:AV:29:HIS:CE1	28:AC:86:LEU:O	2.27	0.88
18:AY:122:LYS:HD3	18:AY:122:LYS:N	1.85	0.88
25:Af:135:HIS:O	25:Af:138:ARG:O	1.90	0.88
31:AH:29:GLU:OE2	31:AH:86:LYS:CE	2.22	0.88
39:Cq:264:LYS:CD	84:Cv:1:MET:SD	2.61	0.88
41:CO:122:ALA:HB3	52:CS:162:GLN:OE1	1.72	0.88
44:CM:120:ASN:C	44:CM:123:ILE:HG22	1.99	0.88
47:CI:91:LEU:HD12	47:CI:135:ILE:HG23	1.55	0.88
47:CI:103:LEU:H	47:CI:103:LEU:HD22	1.38	0.88
51:CA:147:ARG:HG3	51:CA:157:VAL:HG22	1.55	0.88
52:CS:19:THR:OG1	52:CS:20:PRO:HB2	1.73	0.88
53:CT:147:GLU:CB	53:CT:148:PRO:CD	2.52	0.88
54:CP:95:LEU:CD1	54:CP:148:MET:HE1	2.04	0.88
56:CX:38:LYS:HG2	56:CX:39:LYS:N	1.87	0.88
56:CX:38:LYS:HG2	56:CX:39:LYS:C	1.99	0.88
74:CC:141:GLY:O	74:CC:142:HIS:HB2	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:219:LYS:NZ	74:CC:222:ARG:HH22	1.72	0.88
75:Cm:84:GLN:HA	75:Cm:87:GLN:HG3	1.52	0.88
77:Cp:48:LYS:CD	77:Cp:49:ARG:N	2.36	0.88
4:AK:71:LEU:HD23	4:AK:76:ILE:HD11	1.55	0.88
8:AS:120:HIS:CE1	13:AP:123:TYR:CZ	2.62	0.88
10:AN:38:TYR:CE2	10:AN:74:ILE:HG22	2.07	0.88
14:AT:124:THR:HG23	14:AT:126:GLN:N	1.89	0.88
15:AB:72:ALA:HA	15:AB:79:VAL:CG2	2.02	0.88
17:AV:64:GLU:OE2	21:Ab:3:LEU:HD21	1.74	0.88
22:Ac:50:VAL:HG22	30:AF:142:SER:OG	1.74	0.88
23:AD:135:GLU:CB	23:AD:153:VAL:HG22	2.03	0.88
23:AD:218:LEU:HD12	23:AD:220:THR:CG2	2.04	0.88
26:AJ:72:PHE:CB	27:AE:248:ILE:HD11	2.03	0.88
28:AC:227:ARG:C	28:AC:227:ARG:CD	2.44	0.88
28:AC:233:LEU:HD12	28:AC:234:GLY:N	1.88	0.88
34:AQ:115:TYR:CD2	34:AQ:116:ASP:N	2.42	0.88
39:Cq:110:ALA:HB3	39:Cq:181:SER:HA	1.55	0.88
39:Cq:242:ILE:CG2	39:Cq:246:LYS:HE3	2.04	0.88
41:CO:177:LEU:CB	44:CM:130:LEU:CD2	2.52	0.88
44:CM:51:PRO:HD2	44:CM:54:CYS:HG	1.39	0.88
46:CN:116:LEU:CD2	46:CN:135:ILE:CD1	2.37	0.88
47:CI:76:MET:HB2	47:CI:85:PHE:CZ	2.09	0.88
48:CD:56:THR:O	48:CD:58:ARG:HD2	1.72	0.88
54:CP:82:ARG:C	54:CP:84:PRO:HD3	1.99	0.88
56:CX:76:ILE:HD13	56:CX:104:ALA:CB	2.03	0.88
57:CY:2:LYS:CE	57:CY:7:VAL:O	2.20	0.88
58:CW:63:GLN:O	58:CW:64:SER:OG	1.92	0.88
59:CZ:89:ILE:O	59:CZ:92:ASP:OD1	1.92	0.88
59:CZ:100:VAL:HA	59:CZ:106:LEU:CD2	2.04	0.88
63:CB:232:THR:HA	63:CB:237:THR:HG22	1.54	0.88
67:Ce:5:ARG:NE	67:Ce:93:LYS:CE	2.30	0.88
70:Ci:10:GLY:C	70:Ci:11:LEU:HD12	1.99	0.88
70:Ci:25:ARG:O	70:Ci:28:ARG:CG	2.22	0.88
71:Cj:85:LYS:H	71:Cj:86:PRO:HD3	1.00	0.88
81:CE:111:LYS:HB3	81:CE:113:PRO:HG3	1.55	0.88
85:A5:463:A:N1	85:A5:692:A:N1	2.22	0.88
1:Az:275:LYS:C	1:Az:275:LYS:CE	2.45	0.87
1:Az:604:MET:HG2	1:Az:728:CYS:SG	2.14	0.87
1:Az:694:GLU:OE1	1:Az:844:LEU:HD11	1.74	0.87
1:Az:746:LEU:HD21	1:Az:785:LYS:NZ	1.88	0.87
1:Az:777:ALA:O	1:Az:779:THR:CA	2.22	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:829:SER:O	1:Az:833:GLN:CG	2.22	0.87
2:Ag:15:ASN:O	2:Ag:305:ASN:CG	2.17	0.87
3:AU:67:LYS:HE2	3:AU:78:ASP:OD1	1.72	0.87
8:AS:46:ARG:CZ	14:AT:50:GLU:HG2	2.02	0.87
10:AN:16:LEU:HD21	10:AN:62:GLN:CD	1.99	0.87
13:AP:41:GLN:HG2	13:AP:84:ILE:HG12	0.88	0.87
18:AY:7:ILE:CD1	18:AY:43:LYS:HG2	1.94	0.87
23:AD:221:THR:HB	23:AD:222:PRO:HD2	1.54	0.87
29:AG:27:PHE:HE2	29:AG:41:LEU:HD12	1.37	0.87
29:AG:57:ASP:HA	29:AG:106:LEU:HA	1.55	0.87
41:CO:118:MET:HE1	52:CS:169:THR:HA	1.56	0.87
44:CM:19:PRO:CD	44:CM:20:HIS:H	1.87	0.87
49:CQ:33:ARG:HE	49:CQ:52:PHE:HZ	1.22	0.87
51:CA:23:ARG:C	51:CA:24:LYS:CE	2.47	0.87
52:CS:30:MET:CE	52:CS:47:PHE:HB2	2.04	0.87
52:CS:83:ARG:CD	53:CT:155:PRO:HA	2.01	0.87
52:CS:127:MET:C	52:CS:128:LYS:HG3	1.99	0.87
53:CT:13:TYR:N	53:CT:13:TYR:CD2	2.30	0.87
63:CB:32:PHE:N	63:CB:32:PHE:CD2	2.29	0.87
63:CB:116:ARG:HD2	63:CB:122:TRP:HB2	1.56	0.87
64:CF:23:ARG:C	64:CF:23:ARG:HA	1.95	0.87
64:CF:30:ILE:O	64:CF:34:ARG:HG3	1.74	0.87
74:CC:234:LYS:O	74:CC:235:LEU:HB2	1.73	0.87
77:Cp:47:MET:SD	77:Cp:57:CYS:CA	2.62	0.87
82:CG:31:LEU:HD22	82:CG:31:LEU:H	1.37	0.87
83:Cs:54:VAL:HG13	83:Cs:59:LEU:HD11	1.52	0.87
1:Az:609:PHE:HZ	1:Az:661:ILE:CD1	1.83	0.87
3:AU:36:CYS:SG	3:AU:53:PRO:CB	2.62	0.87
3:AU:67:LYS:HE2	3:AU:78:ASP:CG	1.99	0.87
4:AK:17:LYS:HZ1	35:Ah:287:GLU:HG2	1.37	0.87
4:AK:33:PRO:O	4:AK:34:GLU:HB3	1.72	0.87
8:AS:36:VAL:HG22	8:AS:36:VAL:O	1.71	0.87
17:AV:27:LYS:NZ	28:AC:82:TYR:HE1	1.71	0.87
18:AY:22:GLN:HB2	18:AY:74:MET:SD	2.14	0.87
20:Aa:76:SER:O	20:Aa:80:HIS:HB2	1.74	0.87
23:AD:132:LYS:HA	23:AD:191:PRO:HG2	1.54	0.87
23:AD:158:ILE:CD1	23:AD:189:MET:SD	2.62	0.87
45:Ca:24:LYS:HG3	45:Ca:25:HIS:N	1.86	0.87
47:CI:41:ALA:HB3	47:CI:139:ARG:NH2	1.88	0.87
49:CQ:28:LEU:HD13	49:CQ:51:LEU:HD22	1.56	0.87
51:CA:30:ARG:NH1	51:CA:33:ASP:OD1	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:209:HIS:ND1	51:CA:211:PHE:N	2.22	0.87
60:Cr:46:ARG:HG2	60:Cr:68:SER:CA	2.02	0.87
65:Cc:17:ARG:O	65:Cc:21:VAL:HG23	1.73	0.87
66:Cd:117:LEU:N	66:Cd:117:LEU:HD22	1.89	0.87
67:Ce:5:ARG:CB	67:Ce:6:PRO:CD	2.51	0.87
67:Ce:69:MET:CE	67:Ce:75:ARG:HH21	1.86	0.87
69:Cg:37:LYS:CD	69:Cg:60:ARG:NH2	2.32	0.87
74:CC:7:LEU:H	74:CC:24:LEU:HD23	1.36	0.87
82:CG:160:ASP:CB	82:CG:187:LYS:HD2	2.03	0.87
82:CG:189:ARG:HG2	82:CG:190:LEU:CD2	2.02	0.87
1:Az:6:VAL:O	1:Az:9:ILE:N	2.07	0.87
1:Az:42:LYS:HG3	1:Az:79:TYR:HH	1.05	0.87
1:Az:154:VAL:HG13	1:Az:353:MET:HE3	1.54	0.87
1:Az:585:GLU:CG	1:Az:737:GLN:HE22	1.86	0.87
5:AO:101:GLY:O	5:AO:104:ARG:HB2	1.74	0.87
6:AX:105:PHE:CG	6:AX:112:VAL:HG23	2.09	0.87
10:AN:12:SER:O	10:AN:13:GLN:HG2	1.73	0.87
12:AR:85:VAL:HG23	16:AA:201:LEU:HD13	0.88	0.87
24:Ae:44:ASN:HB3	24:Ae:45:VAL:HG23	1.53	0.87
28:AC:138:GLY:CA	28:AC:241:PHE:HZ	1.87	0.87
30:AF:119:SER:O	30:AF:193:LYS:HG3	1.75	0.87
32:AW:104:LEU:HD11	32:AW:106:THR:HG23	1.52	0.87
34:AQ:117:ARG:O	34:AQ:118:THR:OG1	1.92	0.87
35:Ah:152:SER:HA	35:Ah:153:VAL:CB	1.98	0.87
39:Cq:143:ILE:HG12	39:Cq:160:LEU:CD2	2.04	0.87
39:Cq:248:VAL:HA	84:Cv:8:LEU:HD11	1.56	0.87
40:CK:91:ASP:O	40:CK:92:ARG:HB2	1.72	0.87
42:CL:127:PHE:HZ	42:CL:144:LEU:HB2	1.37	0.87
45:Ca:125:LYS:CE	45:Ca:147:VAL:CG2	2.34	0.87
46:CN:50:ARG:HG3	46:CN:50:ARG:HH21	1.38	0.87
46:CN:138:PHE:CB	46:CN:143:ARG:NH2	2.37	0.87
47:CI:109:ASP:HA	47:CI:112:GLN:HG2	1.54	0.87
49:CQ:150:ARG:CB	49:CQ:164:LYS:HG3	2.05	0.87
53:CT:12:ARG:HG2	53:CT:13:TYR:CD2	2.07	0.87
57:CY:34:LEU:CD1	57:CY:38:LEU:HD12	2.04	0.87
65:Cc:26:LYS:HZ1	65:Cc:42:LYS:NZ	1.71	0.87
65:Cc:29:LEU:HD23	65:Cc:94:LEU:HD11	1.57	0.87
74:CC:271:ALA:HB1	74:CC:274:LYS:HG3	1.54	0.87
75:Cm:95:ILE:CG1	75:Cm:124:LYS:HG3	2.03	0.87
78:Co:97:LYS:HD3	78:Co:97:LYS:H	1.36	0.87
2:Ag:30:MET:HE2	2:Ag:42:MET:HE3	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:111:PHE:HE1	16:AA:12:GLU:HA	1.40	0.87
14:AT:111:LYS:CB	14:AT:126:GLN:HE22	1.85	0.87
15:AB:175:GLU:HG2	15:AB:193:ILE:CD1	2.03	0.87
18:AY:10:ARG:HE	18:AY:24:VAL:HG11	0.75	0.87
23:AD:70:THR:HA	23:AD:86:LEU:CD1	2.04	0.87
30:AF:14:THR:HG23	34:AQ:56:LEU:CD2	1.99	0.87
34:AQ:43:GLU:HA	34:AQ:45:ARG:N	1.90	0.87
39:Cq:21:LEU:HD13	39:Cq:66:ARG:CB	2.04	0.87
42:CL:155:MET:CE	42:CL:155:MET:H	1.87	0.87
43:CV:58:GLY:N	43:CV:125:CYS:SG	2.48	0.87
44:CM:14:TYR:HD2	44:CM:56:GLN:CD	1.83	0.87
48:CD:57:ASN:C	48:CD:58:ARG:CD	2.47	0.87
49:CQ:38:ARG:HB3	74:CC:302:LEU:HD22	1.54	0.87
63:CB:58:ARG:HA	63:CB:366:LYS:CG	2.05	0.87
66:Cd:85:ARG:HB2	66:Cd:114:PHE:CZ	2.09	0.87
73:Cl:42:ARG:CD	73:Cl:49:LEU:HD21	2.05	0.87
81:CE:106:VAL:HB	81:CE:107:VAL:CA	1.99	0.87
81:CE:280:GLY:O	81:CE:282:TYR:CD2	2.27	0.87
83:Cs:7:LEU:N	83:Cs:11:TYR:HE2	1.71	0.87
85:A5:708:G:H21	85:A5:4941:G:H1	1.20	0.87
1:Az:647:ARG:HH21	1:Az:647:ARG:HG2	1.39	0.87
4:AK:27:VAL:CG1	4:AK:43:LEU:HD21	2.01	0.87
5:AO:20:GLN:HG2	5:AO:21:VAL:O	1.73	0.87
7:AM:26:LEU:HD11	7:AM:89:VAL:C	1.99	0.87
10:AN:24:THR:OG1	21:Ab:84:HIS:HE1	1.57	0.87
11:AL:5:GLN:HG3	33:AI:197:PHE:CE2	2.10	0.87
13:AP:52:LYS:N	13:AP:54:HIS:CD2	2.43	0.87
17:AV:71:ARG:NH1	21:Ab:3:LEU:O	2.07	0.87
19:AZ:62:VAL:CG1	19:AZ:68:ILE:HD13	2.04	0.87
27:AE:70:ILE:CG1	27:AE:92:ILE:HD12	1.88	0.87
28:AC:207:ALA:C	28:AC:210:PRO:HD2	1.99	0.87
29:AG:4:ASN:HA	29:AG:15:LEU:HD23	1.56	0.87
38:Cz:80:VAL:CG1	38:Cz:147:LYS:HB3	2.04	0.87
39:Cq:6:ARG:HG3	39:Cq:10:LYS:CG	2.04	0.87
41:CO:72:HIS:HB2	41:CO:74:ARG:NH1	1.88	0.87
47:CI:91:LEU:CD1	47:CI:135:ILE:HG12	2.04	0.87
52:CS:17:LEU:CG	52:CS:58:SER:HA	2.05	0.87
52:CS:23:HIS:CA	52:CS:24:THR:CB	2.01	0.87
53:CT:146:LYS:C	53:CT:147:GLU:CD	2.42	0.87
56:CX:128:ILE:HG22	73:Cl:10:LYS:HZ1	1.37	0.87
58:CW:87:LEU:C	58:CW:90:ILE:H	1.81	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:110:ARG:HE	58:CW:113:LYS:HZ1	1.23	0.87
59:CZ:91:LEU:O	59:CZ:117:LYS:NZ	2.07	0.87
60:Cr:14:SER:OG	60:Cr:17:LEU:CB	2.22	0.87
63:CB:113:GLU:O	63:CB:178:ALA:CB	2.21	0.87
74:CC:210:ILE:CD1	74:CC:252:TRP:CH2	2.57	0.87
81:CE:127:SER:HA	81:CE:129:GLY:H	1.40	0.87
82:CG:95:LEU:HD21	82:CG:222:ILE:HD11	1.56	0.87
1:Az:27:HIS:HD2	1:Az:28:VAL:CA	1.87	0.87
4:AK:3:MET:HE1	4:AK:8:ARG:HH22	1.14	0.87
5:AO:56:VAL:HG11	5:AO:81:VAL:CG2	2.04	0.87
21:Ab:73:LEU:HD12	21:Ab:79:PHE:CZ	2.09	0.87
21:Ab:81:ARG:CA	21:Ab:82:LYS:HB2	2.04	0.87
23:AD:94:ARG:HG2	23:AD:95:GLY:N	1.84	0.87
23:AD:196:GLY:N	23:AD:197:LYS:CA	2.38	0.87
26:AJ:48:PHE:CE1	26:AJ:52:LYS:NZ	2.42	0.87
32:AW:90:GLN:HA	32:AW:102:ILE:CD1	2.05	0.87
39:Cq:6:ARG:CG	39:Cq:10:LYS:HG3	2.05	0.87
39:Cq:125:ALA:HB2	39:Cq:156:SER:HA	1.57	0.87
39:Cq:251:LEU:CD1	84:Cv:8:LEU:CD2	2.52	0.87
41:CO:119:VAL:HG11	41:CO:124:LEU:HD11	1.57	0.87
43:CV:62:MET:HE3	43:CV:76:VAL:HG12	1.55	0.87
44:CM:107:PHE:CE1	81:CE:270:TYR:HB2	2.03	0.87
46:CN:44:ARG:HB3	46:CN:44:ARG:HH11	1.38	0.87
47:CI:100:ASN:O	47:CI:101:LYS:C	2.08	0.87
48:CD:130:TYR:CD2	48:CD:131:ASN:C	2.52	0.87
54:CP:59:PRO:HG3	54:CP:76:TRP:CD1	2.09	0.87
63:CB:17:LEU:HB3	63:CB:18:PRO:HA	1.57	0.87
63:CB:88:GLY:N	63:CB:163:ILE:HG22	1.89	0.87
63:CB:140:GLU:CD	63:CB:144:LYS:NZ	2.31	0.87
66:Cd:54:MET:HE2	66:Cd:62:VAL:HG23	1.55	0.87
69:Cg:22:LEU:CD2	69:Cg:32:TYR:HE1	1.88	0.87
74:CC:273:LEU:O	74:CC:274:LYS:HG2	1.74	0.87
74:CC:311:ARG:HH11	74:CC:311:ARG:CB	1.86	0.87
78:Co:62:THR:O	78:Co:63:THR:HG22	1.72	0.87
79:CJ:22:LEU:CD2	79:CJ:130:PHE:CE1	2.52	0.87
81:CE:148:THR:O	81:CE:163:VAL:HG12	0.69	0.87
81:CE:165:LEU:HD12	81:CE:174:LEU:CD2	2.05	0.87
83:Ct:41:PRO:HD2	83:Ct:42:PHE:N	1.87	0.87
1:Az:613:LEU:CD2	1:Az:613:LEU:H	1.88	0.87
1:Az:692:LEU:CG	1:Az:824:PRO:HB3	2.05	0.87
8:AS:33:ILE:HB	8:AS:36:VAL:CG1	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:100:PRO:C	12:AR:103:LYS:H	1.82	0.87
16:AA:191:ARG:HG3	16:AA:191:ARG:O	1.73	0.87
17:AV:11:LEU:HD13	28:AC:79:GLU:OE1	1.73	0.87
19:AZ:103:HIS:CD2	19:AZ:105:ALA:CB	2.57	0.87
23:AD:55:THR:C	23:AD:58:VAL:HG22	1.98	0.87
26:AJ:91:LYS:HA	26:AJ:96:TYR:CG	2.08	0.87
26:AJ:138:ARG:NH1	26:AJ:156:HIS:CD2	2.43	0.87
39:Cq:120:GLU:N	39:Cq:163:THR:CG2	2.37	0.87
42:CL:191:LEU:HD22	42:CL:194:ILE:HD13	1.56	0.87
45:Ca:84:GLU:HB2	45:Ca:87:ARG:CD	2.05	0.87
46:CN:29:GLN:HG2	82:CG:67:ARG:NE	1.89	0.87
49:CQ:187:LYS:HE2	49:CQ:188:ASN:N	1.90	0.87
53:CT:17:ARG:HH21	53:CT:17:ARG:HG2	1.36	0.87
53:CT:39:ILE:HD12	53:CT:102:ARG:CD	2.02	0.87
57:CY:49:ILE:CD1	57:CY:101:PRO:HB2	2.05	0.87
58:CW:80:ARG:NH2	58:CW:80:ARG:HG3	1.86	0.87
59:CZ:32:GLY:O	59:CZ:33:THR:CG2	2.21	0.87
59:CZ:33:THR:HG23	59:CZ:40:HIS:CE1	2.07	0.87
62:Cb:12:GLN:O	62:Cb:16:TRP:HD1	1.52	0.87
63:CB:61:ASP:OD1	63:CB:361:GLU:OE1	1.93	0.87
63:CB:356:LYS:CE	63:CB:356:LYS:N	2.30	0.87
65:Cc:52:CYS:HA	65:Cc:92:CYS:SG	2.13	0.87
79:CJ:90:ARG:CZ	79:CJ:108:GLY:H	1.88	0.87
81:CE:85:LYS:C	81:CE:85:LYS:HA	1.95	0.87
81:CE:280:GLY:C	81:CE:282:TYR:CE2	2.51	0.87
82:CG:108:GLN:HA	82:CG:111:LYS:CE	2.05	0.87
82:CG:151:LYS:C	82:CG:205:THR:CG2	2.46	0.87
82:CG:160:ASP:OD1	82:CG:187:LYS:HD2	1.74	0.87
83:Cs:17:HIS:CE1	83:Cs:56:ILE:HD13	2.09	0.87
1:Az:150:ARG:NH2	1:Az:194:GLU:OE1	2.08	0.87
6:AX:67:ARG:C	6:AX:68:LYS:CG	2.48	0.87
8:AS:138:THR:N	8:AS:141:ARG:HH21	1.73	0.87
9:Ad:23:VAL:HG21	9:Ad:38:MET:HE1	0.87	0.87
17:AV:24:ILE:HD13	17:AV:24:ILE:C	1.95	0.87
17:AV:65:SER:O	17:AV:69:ILE:HG12	1.73	0.87
23:AD:120:TYR:OH	28:AC:146:GLU:HG3	1.74	0.87
24:Ae:28:LYS:CG	24:Ae:33:LYS:HB2	2.04	0.87
24:Ae:39:ASN:O	24:Ae:44:ASN:HB2	1.75	0.87
25:Af:144:CYS:SG	25:Af:147:THR:HG23	2.15	0.87
26:AJ:72:PHE:CG	27:AE:248:ILE:CG1	2.52	0.87
30:AF:112:LEU:HA	30:AF:177:LEU:HD11	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:10:LYS:NZ	31:AH:17:ASP:N	2.23	0.87
38:Cz:28:PHE:C	38:Cz:28:PHE:HB2	2.00	0.87
39:Cq:241:ILE:HG23	39:Cq:245:TYR:HE2	0.71	0.87
40:CK:117:ARG:CG	40:CK:133:LEU:CD1	2.09	0.87
41:CO:22:ILE:HG21	52:CS:166:ARG:HG3	1.54	0.87
42:CL:94:ILE:HG21	42:CL:120:TYR:HE2	1.37	0.87
50:CR:95:TRP:CH2	50:CR:130:ASN:HB3	2.10	0.87
50:CR:95:TRP:HH2	50:CR:130:ASN:HB3	1.39	0.87
51:CA:155:LYS:HD2	51:CA:155:LYS:O	1.75	0.87
51:CA:158:ILE:HG23	51:CA:162:ASN:ND2	1.88	0.87
63:CB:140:GLU:CG	63:CB:144:LYS:HZ3	1.86	0.87
65:Cc:44:LYS:HE3	65:Cc:97:ILE:O	1.75	0.87
76:Cn:3:ALA:HA	76:Cn:6:ARG:CG	2.04	0.87
82:CG:143:VAL:CA	82:CG:146:LEU:CD2	2.44	0.87
83:Ct:21:VAL:CG1	83:Ct:27:LYS:HZ3	1.86	0.87
6:AX:126:ALA:O	6:AX:128:VAL:HB	1.75	0.87
8:AS:118:ARG:HH12	13:AP:108:LYS:NZ	1.72	0.87
13:AP:51:ARG:O	13:AP:52:LYS:CB	2.22	0.87
18:AY:122:LYS:N	18:AY:122:LYS:CD	2.36	0.87
25:Af:116:ARG:HG3	25:Af:116:ARG:HH11	1.39	0.87
26:AJ:32:ILE:O	26:AJ:35:TYR:O	1.91	0.87
26:AJ:39:ASN:OD1	26:AJ:42:GLU:CD	2.17	0.87
26:AJ:90:GLY:C	26:AJ:96:TYR:CD2	2.52	0.87
29:AG:14:LYS:HZ1	29:AG:123:GLY:CA	1.85	0.87
29:AG:184:VAL:CG1	29:AG:188:LYS:CE	2.32	0.87
31:AH:93:VAL:HG22	31:AH:94:PHE:N	1.85	0.87
33:AI:142:SER:CB	33:AI:143:LYS:NZ	2.38	0.87
39:Cq:242:ILE:CG2	83:Ct:63:VAL:HG21	2.05	0.87
40:CK:77:ALA:CB	40:CK:80:LEU:HD12	2.04	0.87
40:CK:131:GLU:CG	40:CK:152:ILE:HG23	2.05	0.87
42:CL:9:VAL:HG12	42:CL:10:LEU:H	1.36	0.87
45:Ca:129:PHE:CE1	45:Ca:146:LEU:CD2	2.55	0.87
46:CN:29:GLN:HA	82:CG:67:ARG:NH2	1.90	0.87
49:CQ:8:ASN:H	49:CQ:8:ASN:ND2	1.65	0.87
50:CR:131:VAL:O	50:CR:131:VAL:HG12	1.73	0.87
55:CU:125:GLU:CG	55:CU:126:ASP:H	1.82	0.87
59:CZ:55:ALA:O	59:CZ:56:ALA:HB2	1.75	0.87
63:CB:117:ARG:HA	63:CB:177:LYS:HD2	1.53	0.87
63:CB:355:THR:O	63:CB:356:LYS:HE2	1.74	0.87
65:Cc:13:SER:HB2	65:Cc:17:ARG:HH21	1.37	0.87
68:Cf:21:GLN:C	68:Cf:22:ARG:HD2	1.99	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:33:VAL:HG13	68:Cf:82:GLY:HA3	0.89	0.87
79:CJ:90:ARG:HH12	79:CJ:107:PHE:CB	1.78	0.87
81:CE:83:LYS:HD2	81:CE:86:GLU:N	1.90	0.87
4:AK:39:ASN:O	4:AK:40:VAL:HG12	1.75	0.86
8:AS:46:ARG:HH22	14:AT:50:GLU:HB3	1.38	0.86
9:Ad:13:LYS:CD	9:Ad:14:PHE:HD2	1.88	0.86
13:AP:68:PRO:CB	13:AP:69:PRO:CD	2.53	0.86
16:AA:138:SER:O	17:AV:30:ALA:CB	2.23	0.86
18:AY:54:VAL:HG12	18:AY:76:TYR:N	1.89	0.86
18:AY:122:LYS:CD	18:AY:122:LYS:H	1.87	0.86
23:AD:158:ILE:HD13	23:AD:189:MET:HE2	1.47	0.86
26:AJ:37:LEU:CD1	26:AJ:42:GLU:CB	2.42	0.86
26:AJ:170:PRO:CA	26:AJ:174:LYS:NZ	2.38	0.86
27:AE:128:LYS:HD3	27:AE:130:PHE:HE1	0.95	0.86
30:AF:122:ARG:HE	30:AF:193:LYS:HZ1	1.20	0.86
31:AH:43:LEU:HD13	31:AH:72:PHE:CD1	2.10	0.86
34:AQ:105:LYS:NZ	34:AQ:109:LYS:HB2	1.90	0.86
39:Cq:61:MET:SD	39:Cq:82:ILE:HG21	2.11	0.86
39:Cq:160:LEU:HD12	39:Cq:175:LEU:HD21	1.55	0.86
39:Cq:221:ASN:CB	84:Cu:55:ILE:HG23	2.05	0.86
41:CO:16:LEU:HD12	41:CO:43:ILE:HG13	1.56	0.86
42:CL:55:ILE:HD11	42:CL:120:TYR:CZ	2.09	0.86
48:CD:44:TYR:HH	53:CT:67:VAL:HG21	1.29	0.86
48:CD:210:TYR:CE1	48:CD:214:GLU:CD	2.52	0.86
50:CR:44:LEU:CD2	50:CR:49:LEU:CD1	2.53	0.86
53:CT:68:THR:O	53:CT:69:GLN:C	2.15	0.86
53:CT:81:LYS:CA	62:Cb:16:TRP:CZ2	2.49	0.86
54:CP:41:ILE:HG12	54:CP:150:LEU:CD2	2.04	0.86
60:Cr:28:GLU:OE2	60:Cr:29:PRO:HD2	1.74	0.86
82:CG:87:LEU:O	82:CG:87:LEU:HG	1.74	0.86
82:CG:152:ALA:HA	82:CG:205:THR:CG2	2.04	0.86
83:Cs:19:ASP:HB2	84:Cu:2:ARG:HD2	1.57	0.86
1:Az:110:ASP:OD2	1:Az:112:SER:HB3	1.75	0.86
1:Az:253:VAL:HG12	1:Az:257:MET:HE2	1.55	0.86
5:AO:55:ARG:O	5:AO:56:VAL:CG1	2.23	0.86
18:AY:9:THR:HG1	18:AY:48:TYR:HH	1.04	0.86
19:AZ:69:THR:HB	19:AZ:70:PRO:CD	2.05	0.86
27:AE:36:HIS:CB	27:AE:41:CYS:SG	2.63	0.86
30:AF:39:ILE:CG2	30:AF:68:ILE:HG21	2.05	0.86
32:AW:93:LEU:CD2	32:AW:128:PHE:CD2	2.57	0.86
33:AI:84:ASN:ND2	33:AI:100:CYS:SG	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:42:ILE:CG2	34:AQ:51:LEU:CD2	2.53	0.86
41:CO:108:ILE:HG21	41:CO:160:ARG:HE	1.39	0.86
47:CI:16:PRO:HD3	47:CI:128:ARG:HH12	1.39	0.86
48:CD:129:GLU:CG	48:CD:177:THR:HG21	2.03	0.86
51:CA:250:LYS:CA	51:CA:251:THR:C	2.39	0.86
52:CS:18:PRO:C	52:CS:19:THR:CG2	2.47	0.86
52:CS:98:ARG:CD	52:CS:145:PHE:HB3	2.05	0.86
54:CP:6:LEU:HD23	54:CP:116:HIS:CE1	2.09	0.86
56:CX:153:ILE:HG13	56:CX:154:GLY:N	1.90	0.86
59:CZ:92:ASP:CB	59:CZ:117:LYS:HZ3	1.88	0.86
65:Cc:81:LEU:HB2	65:Cc:91:VAL:CG2	2.04	0.86
71:Cj:85:LYS:O	71:Cj:87:LYS:HB2	1.75	0.86
77:Cp:27:LYS:CD	77:Cp:28:LYS:N	2.37	0.86
80:CH:105:ILE:HG21	80:CH:112:VAL:CG2	2.06	0.86
82:CG:150:LYS:CB	82:CG:177:MET:CE	2.42	0.86
1:Az:24:VAL:HG23	1:Az:32:LYS:CE	2.03	0.86
1:Az:27:HIS:HD2	1:Az:28:VAL:H	0.89	0.86
3:AU:27:ARG:HG3	3:AU:83:ARG:O	1.73	0.86
6:AX:105:PHE:CE2	6:AX:118:VAL:O	2.27	0.86
8:AS:47:LYS:NZ	8:AS:78:LYS:CB	2.38	0.86
13:AP:12:PHE:CZ	79:CJ:88:LYS:CD	2.58	0.86
13:AP:51:ARG:HD2	13:AP:51:ARG:H	1.39	0.86
13:AP:84:ILE:HD11	13:AP:115:TYR:CE1	2.10	0.86
26:AJ:82:VAL:HG11	26:AJ:92:MET:CE	2.05	0.86
33:AI:161:LEU:HD13	33:AI:199:LEU:HD11	1.55	0.86
39:Cq:279:ALA:N	39:Cq:280:PRO:HD2	1.90	0.86
40:CK:2:PRO:HD2	40:CK:3:PRO:HD2	1.58	0.86
44:CM:89:THR:OG1	44:CM:92:ALA:HB2	1.75	0.86
51:CA:39:GLY:HA3	82:CG:41:ILE:HD11	1.57	0.86
56:CX:78:LYS:HE3	56:CX:101:ASP:HA	1.55	0.86
62:Cb:51:LYS:HE2	62:Cb:51:LYS:CA	2.06	0.86
63:CB:142:GLY:CA	63:CB:147:GLU:H	1.87	0.86
63:CB:327:THR:HG23	63:CB:328:ASN:CG	2.01	0.86
66:Cd:39:LYS:HZ1	66:Cd:78:ARG:NH2	1.71	0.86
69:Cg:7:TYR:CZ	69:Cg:18:ASN:ND2	2.43	0.86
78:Co:72:CYS:CB	78:Co:77:CYS:SG	2.62	0.86
79:CJ:26:VAL:HB	79:CJ:33:LEU:HD21	1.54	0.86
81:CE:75:ALA:CA	81:CE:76:ALA:HB2	2.05	0.86
81:CE:111:LYS:O	81:CE:113:PRO:HD3	1.73	0.86
1:Az:167:LEU:HA	80:CH:100:PRO:CG	2.06	0.86
3:AU:50:VAL:CG1	3:AU:51:LYS:H	1.85	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:40:VAL:HG22	4:AK:41:PRO:HD2	1.54	0.86
7:AM:117:GLU:O	7:AM:118:SER:OG	1.93	0.86
16:AA:133:PRO:CD	16:AA:134:LEU:H	1.86	0.86
18:AY:120:THR:O	18:AY:122:LYS:HD2	1.74	0.86
23:AD:123:LEU:HD21	23:AD:154:ASP:CG	2.00	0.86
30:AF:42:LYS:HB2	30:AF:45:TYR:CA	2.04	0.86
32:AW:93:LEU:HD21	32:AW:128:PHE:HD2	1.38	0.86
38:Cz:202:ARG:HA	38:Cz:202:ARG:CZ	2.06	0.86
41:CO:177:LEU:CA	44:CM:130:LEU:CD2	2.54	0.86
42:CL:9:VAL:HA	42:CL:10:LEU:HD23	1.56	0.86
42:CL:100:PRO:HD2	42:CL:101:ARG:H	1.41	0.86
47:CI:101:LYS:C	47:CI:103:LEU:HD22	2.01	0.86
53:CT:82:GLY:HA2	62:Cb:16:TRP:CZ3	2.10	0.86
61:Ch:109:ARG:HB3	61:Ch:109:ARG:HH11	1.09	0.86
63:CB:39:LYS:HB2	63:CB:40:PRO:CD	2.05	0.86
74:CC:7:LEU:HD11	74:CC:21:ASN:CB	2.04	0.86
74:CC:183:VAL:O	74:CC:184:TYR:HB2	1.73	0.86
77:Cp:3:LYS:O	77:Cp:4:ARG:CB	2.24	0.86
78:Co:25:GLN:HG2	78:Co:91:PHE:HZ	1.39	0.86
1:Az:524:LEU:HD22	1:Az:536:CYS:SG	2.14	0.86
2:Ag:65:PHE:CE2	12:AR:29:HIS:CE1	2.63	0.86
2:Ag:143:GLN:CD	2:Ag:144:ASP:HA	1.99	0.86
2:Ag:191:HIS:HD2	2:Ag:195:LEU:HD11	1.40	0.86
7:AM:115:GLY:O	7:AM:116:LYS:HB2	1.73	0.86
8:AS:39:ARG:HD3	14:AT:38:LYS:HE2	1.54	0.86
10:AN:54:LEU:O	10:AN:58:HIS:O	1.93	0.86
12:AR:38:ILE:O	23:AD:211:VAL:CG2	2.21	0.86
22:Ac:59:LEU:HD11	30:AF:123:GLU:CD	1.78	0.86
26:AJ:17:ARG:CG	26:AJ:18:ARG:CD	2.29	0.86
30:AF:59:LYS:HD2	30:AF:62:ARG:HH22	1.41	0.86
33:AI:128:LYS:C	33:AI:131:PRO:HD2	2.01	0.86
39:Cq:107:VAL:N	39:Cq:185:PHE:O	2.09	0.86
40:CK:9:GLU:HG3	40:CK:10:ILE:CA	2.05	0.86
50:CR:103:ARG:HD2	50:CR:124:TYR:CE1	2.10	0.86
51:CA:118:GLU:HB3	51:CA:125:LYS:HZ2	1.41	0.86
52:CS:45:TRP:CZ2	52:CS:56:LYS:HA	2.09	0.86
54:CP:116:HIS:HE1	54:CP:118:GLN:HB3	1.39	0.86
56:CX:146:ALA:HA	56:CX:149:VAL:CG1	2.05	0.86
57:CY:11:ARG:HH12	74:CC:200:ARG:HH12	1.20	0.86
60:Cr:70:GLN:HB3	60:Cr:71:ARG:NE	1.89	0.86
60:Cr:123:PRO:CD	60:Cr:124:VAL:H	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:40:PRO:CG	63:CB:42:HIS:CD2	2.55	0.86
63:CB:51:ALA:HB3	63:CB:78:ILE:HD13	1.57	0.86
63:CB:355:THR:O	63:CB:356:LYS:CE	2.22	0.86
71:Cj:85:LYS:O	71:Cj:85:LYS:HG3	1.73	0.86
74:CC:7:LEU:HG	74:CC:8:ILE:N	1.87	0.86
81:CE:264:ILE:CG2	81:CE:267:LEU:H	1.89	0.86
84:Cu:23:ILE:HG22	84:Cu:39:LEU:CD2	2.03	0.86
85:A5:294:G:N1	85:A5:315:G:O2'	2.08	0.86
1:Az:58:ASP:HA	1:Az:63:GLU:CD	2.00	0.86
4:AK:14:LEU:HD22	4:AK:35:LEU:CG	2.04	0.86
12:AR:91:LEU:HD12	12:AR:92:ASP:HA	1.56	0.86
13:AP:52:LYS:HA	13:AP:54:HIS:CD2	2.10	0.86
16:AA:57:LYS:HE2	17:AV:70:LEU:CD1	2.04	0.86
20:Aa:22:ARG:NE	20:Aa:28:ARG:O	2.08	0.86
28:AC:108:LYS:CE	28:AC:233:LEU:CD2	2.48	0.86
36:B2:530:U:C5	36:B2:531:A:C8	2.64	0.86
39:Cq:53:VAL:CG2	39:Cq:89:VAL:HG22	2.03	0.86
41:CO:125:LYS:HE3	41:CO:135:PHE:CE2	2.10	0.86
41:CO:181:ALA:HB1	44:CM:126:GLU:CG	2.06	0.86
42:CL:20:ARG:HD2	42:CL:20:ARG:H	1.36	0.86
43:CV:82:ILE:HG21	43:CV:121:VAL:HG22	1.55	0.86
46:CN:180:PHE:CB	46:CN:184:ILE:CD1	2.35	0.86
48:CD:110:LEU:HG	48:CD:115:MET:O	1.74	0.86
51:CA:253:GLN:CB	51:CA:254:GLU:HA	2.05	0.86
60:Cr:50:GLY:CA	60:Cr:64:ILE:HG22	2.05	0.86
60:Cr:125:MET:C	60:Cr:126:VAL:HG23	1.99	0.86
63:CB:87:VAL:HG23	63:CB:163:ILE:HG21	1.55	0.86
74:CC:133:LEU:CD2	74:CC:136:LEU:HG	2.04	0.86
74:CC:159:GLU:OE2	74:CC:255:SER:OG	1.93	0.86
74:CC:272:SER:O	74:CC:273:LEU:CB	2.22	0.86
82:CG:181:TYR:CE2	82:CG:227:ASN:OD1	2.29	0.86
83:Ct:31:LEU:HD22	84:Cv:30:VAL:HG23	1.56	0.86
1:Az:45:ILE:HD12	1:Az:78:PHE:HD1	1.38	0.86
1:Az:167:LEU:CA	80:CH:100:PRO:HG2	2.04	0.86
2:Ag:46:THR:HB	2:Ag:48:ASP:HB2	1.57	0.86
4:AK:66:HIS:CE1	23:AD:76:ARG:HE	1.90	0.86
7:AM:12:MET:CG	7:AM:16:THR:CG2	2.52	0.86
8:AS:9:PHE:CD1	8:AS:9:PHE:N	2.37	0.86
8:AS:16:LEU:C	8:AS:17:ASN:CG	2.43	0.86
11:AL:80:MET:CE	11:AL:121:GLN:HA	2.06	0.86
18:AY:7:ILE:HG13	18:AY:43:LYS:HD3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ac:11:LEU:HD13	22:Ac:35:MET:CE	2.06	0.86
26:Aj:180:LYS:HG3	26:Aj:181:GLY:N	1.90	0.86
28:Ac:244:ILE:HG13	28:Ac:245:SER:N	1.91	0.86
33:Al:62:VAL:HG21	33:Al:75:LYS:CE	2.06	0.86
33:Al:139:LYS:HB2	33:Al:145:ILE:HD11	1.56	0.86
40:Ck:107:ASP:CG	40:Ck:143:VAL:HG13	2.00	0.86
47:Cl:103:LEU:H	47:Cl:103:LEU:HD23	1.41	0.86
48:CD:152:ARG:HH12	79:Cj:145:LYS:HE2	1.41	0.86
48:CD:273:LEU:HD13	48:CD:277:LYS:HE3	0.87	0.86
52:CS:9:GLU:OE1	52:CS:31:ARG:HD2	1.75	0.86
52:CS:76:LYS:CE	52:CS:100:LEU:O	2.23	0.86
61:Ch:74:LYS:C	61:Ch:74:LYS:CD	2.48	0.86
63:CB:173:LEU:HD13	63:CB:342:LYS:HE2	1.57	0.86
65:Cc:74:TYR:CG	65:Cc:81:LEU:CD2	2.58	0.86
79:Cj:128:LEU:CD1	79:Cj:130:PHE:HD2	1.85	0.86
81:CE:51:VAL:HB	81:CE:52:ARG:HA	1.55	0.86
82:CG:117:ARG:NH1	82:CG:127:ASP:O	1.79	0.86
1:Az:745:TYR:HB2	1:Az:815:ASP:N	1.90	0.86
5:AO:61:LYS:O	5:AO:62:VAL:CG2	2.23	0.86
15:AB:53:GLN:O	15:AB:56:LYS:O	1.93	0.86
23:AD:218:LEU:CB	23:AD:220:THR:HG23	1.98	0.86
26:Aj:177:ASN:O	26:Aj:180:LYS:CB	2.23	0.86
28:Ac:275:LYS:CD	28:Ac:276:THR:H	1.88	0.86
35:Ah:152:SER:OG	35:Ah:155:ARG:HD2	1.74	0.86
36:B2:127:C:N3	36:B2:180:G:C2'	2.39	0.86
38:Cz:67:VAL:HG23	38:Cz:82:ILE:CD1	2.02	0.86
42:CL:136:LYS:H	42:CL:137:GLY:CA	1.86	0.86
52:CS:153:PRO:O	52:CS:155:PRO:CD	2.24	0.86
55:CU:23:LEU:CD2	55:CU:110:TYR:O	2.23	0.86
60:Cr:72:LYS:HD2	60:Cr:72:LYS:C	2.01	0.86
63:CB:40:PRO:O	63:CB:41:VAL:HG22	1.76	0.86
63:CB:126:LYS:O	63:CB:127:LYS:HG3	1.74	0.86
64:CF:116:GLN:HB2	64:CF:119:ASN:ND2	1.91	0.86
65:Cc:28:VAL:HG11	65:Cc:33:GLN:CD	2.00	0.86
65:Cc:74:TYR:OH	65:Cc:80:GLU:HB3	1.76	0.86
69:Cg:20:THR:HG21	69:Cg:32:TYR:CE2	2.10	0.86
83:Cs:41:PRO:O	83:Cs:44:PRO:HG2	1.75	0.86
1:Az:753:GLU:H	1:Az:782:PHE:HD1	1.21	0.86
2:Ag:59:LEU:O	2:Ag:60:ARG:O	1.92	0.86
4:AK:66:HIS:ND1	23:AD:76:ARG:NE	2.23	0.86
7:AM:28:HIS:HD2	7:AM:113:ASP:OD2	1.59	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:65:GLU:O	8:AS:69:THR:HG23	1.75	0.86
12:AR:91:LEU:H	12:AR:92:ASP:HA	1.39	0.86
15:AB:62:LEU:HD23	15:AB:91:VAL:HG21	1.58	0.86
15:AB:137:LEU:CD2	15:AB:215:VAL:CG2	2.47	0.86
23:AD:158:ILE:HD11	23:AD:189:MET:HE1	0.86	0.86
29:AG:50:VAL:HG11	29:AG:111:LEU:CG	2.04	0.86
29:AG:64:LYS:HG3	29:AG:67:VAL:HG13	1.55	0.86
30:AF:53:ALA:O	34:AQ:125:ARG:NH2	2.08	0.86
31:AH:146:VAL:HG11	32:AW:42:MET:SD	2.14	0.86
34:AQ:9:SER:HB3	34:AQ:26:LYS:CD	2.05	0.86
34:AQ:112:LEU:O	34:AQ:116:ASP:N	2.08	0.86
39:Cq:143:ILE:CG1	39:Cq:160:LEU:CD2	2.53	0.86
39:Cq:148:SER:O	39:Cq:149:ARG:O	1.94	0.86
45:Ca:125:LYS:HE3	45:Ca:147:VAL:HG22	1.57	0.86
49:CQ:99:LYS:HZ3	49:CQ:119:LYS:CD	1.85	0.86
51:CA:143:THR:N	51:CA:144:LYS:HG2	1.89	0.86
52:CS:84:TYR:CE2	52:CS:85:ASP:O	2.29	0.86
56:CX:87:MET:HE1	56:CX:156:ILE:HD12	1.57	0.86
60:Cr:87:ARG:HG2	60:Cr:88:ALA:H	0.72	0.86
60:Cr:113:ARG:NE	60:Cr:113:ARG:HA	1.91	0.86
65:Cc:87:LYS:HD2	65:Cc:89:TYR:CE2	2.10	0.86
69:Cg:78:TYR:O	69:Cg:81:SER:HB3	1.75	0.86
74:CC:122:TYR:CE1	74:CC:280:PRO:HB3	2.08	0.86
74:CC:273:LEU:C	74:CC:273:LEU:CD1	2.49	0.86
79:CJ:20:LEU:CD1	79:CJ:83:LEU:CD2	2.49	0.86
83:Ct:22:THR:O	83:Ct:27:LYS:HD2	1.75	0.86
1:Az:231:MET:SD	1:Az:343:TRP:HH2	1.98	0.86
3:AU:97:ILE:HG23	3:AU:101:ILE:CD1	2.06	0.86
4:AK:36:ALA:C	4:AK:38:LYS:N	2.30	0.86
7:AM:28:HIS:CD2	7:AM:113:ASP:OD2	2.29	0.86
8:AS:139:THR:O	8:AS:141:ARG:HG2	1.76	0.86
10:AN:80:LEU:O	10:AN:82:PRO:CD	2.22	0.86
12:AR:37:GLU:OE1	12:AR:38:ILE:HG23	1.75	0.86
12:AR:88:VAL:HG23	16:AA:198:MET:HB3	1.54	0.86
12:AR:99:ASP:O	12:AR:119:VAL:CG1	2.03	0.86
13:AP:10:ARG:O	79:CJ:91:GLU:CD	2.18	0.86
14:AT:31:PRO:C	14:AT:33:TRP:H	1.83	0.86
25:Af:102:VAL:HG12	25:Af:103:LEU:CA	2.06	0.86
27:AE:145:ARG:HH11	27:AE:145:ARG:HG2	1.37	0.86
28:AC:275:LYS:HG3	28:AC:276:THR:N	1.89	0.86
30:AF:25:THR:CG2	30:AF:41:VAL:CG2	2.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:128:GLU:OE1	36:B2:1649:U:H5'	1.74	0.86
39:Cq:253:VAL:CA	39:Cq:268:PHE:CE1	2.57	0.86
40:CK:62:LEU:HD11	40:CK:73:VAL:HG21	1.56	0.86
41:CO:118:MET:HE3	52:CS:168:THR:C	1.93	0.86
44:CM:25:VAL:CG1	44:CM:39:ASP:O	2.24	0.86
45:Ca:120:GLN:HG2	45:Ca:121:PRO:CG	2.05	0.86
47:CI:109:ASP:OD2	47:CI:112:GLN:CB	2.24	0.86
48:CD:261:VAL:HB	48:CD:262:LYS:HB2	0.87	0.86
50:CR:99:MET:HE1	50:CR:127:VAL:CG1	2.05	0.86
56:CX:119:ILE:CD1	56:CX:119:ILE:C	2.47	0.86
59:CZ:10:VAL:HG11	59:CZ:129:TRP:CZ3	2.11	0.86
62:Cb:50:ASN:O	62:Cb:54:LEU:HB3	1.76	0.86
65:Cc:99:PRO:HG3	65:Cc:105:ILE:HG13	1.54	0.86
67:Ce:38:PRO:CG	67:Ce:55:MET:CE	2.50	0.86
68:Cf:7:SER:HB3	81:CE:283:PRO:CG	2.01	0.86
74:CC:28:PHE:HA	74:CC:129:ALA:HA	1.58	0.86
74:CC:318:PRO:O	74:CC:321:ASN:N	2.09	0.86
79:CJ:173:ILE:CG2	79:CJ:174:ILE:O	2.24	0.86
82:CG:98:LEU:CD2	82:CG:215:LEU:HD23	2.06	0.86
83:Cs:31:LEU:HD21	84:Cu:30:VAL:CB	2.06	0.86
1:Az:13:MET:CE	1:Az:465:PRO:CD	2.54	0.85
5:AO:94:HIS:ND1	5:AO:127:GLY:O	2.09	0.85
5:AO:119:LEU:HD12	5:AO:120:ALA:N	1.91	0.85
8:AS:26:ILE:HD11	8:AS:59:LEU:CD2	2.05	0.85
12:AR:100:PRO:CB	12:AR:119:VAL:HG21	2.06	0.85
16:AA:36:GLN:HA	16:AA:36:GLN:OE1	1.74	0.85
22:Ac:60:GLU:CD	30:AF:204:ARG:HD2	2.00	0.85
39:Cq:131:GLY:CA	40:CK:35:LEU:HD22	2.06	0.85
40:CK:117:ARG:CA	40:CK:117:ARG:NE	2.33	0.85
42:CL:149:GLN:O	42:CL:150:LEU:HD23	1.75	0.85
46:CN:80:THR:O	46:CN:81:TYR:C	2.18	0.85
47:CI:26:VAL:CG1	47:CI:27:PRO:HD2	2.05	0.85
47:CI:48:LEU:HD13	47:CI:48:LEU:C	2.01	0.85
47:CI:115:MET:HE3	47:CI:118:ALA:CB	2.05	0.85
49:CQ:61:LEU:HD21	49:CQ:140:SER:O	1.75	0.85
51:CA:118:GLU:HG3	51:CA:119:LYS:HG2	1.56	0.85
55:CU:80:LYS:HB3	55:CU:110:TYR:CZ	2.11	0.85
57:CY:117:LYS:HE2	57:CY:121:ARG:HH22	0.89	0.85
60:Cr:51:VAL:HG12	60:Cr:117:ILE:HD11	1.20	0.85
70:CI:81:ILE:HG22	70:CI:85:ARG:NH1	1.90	0.85
80:CH:25:VAL:CG2	80:CH:38:PHE:CE2	2.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:43:VAL:HG11	80:CH:73:ILE:HD12	1.56	0.85
80:CH:110:SER:CB	80:CH:128:MET:CB	2.53	0.85
82:CG:174:CYS:HB3	82:CG:179:VAL:HG12	1.58	0.85
83:Cs:43:TRP:HB3	83:Cs:47:PHE:HE2	1.40	0.85
5:AO:88:LEU:CD2	15:AB:25:PHE:HD2	1.87	0.85
5:AO:113:GLN:CG	20:Aa:46:GLU:CD	2.40	0.85
7:AM:124:ILE:O	7:AM:127:TYR:CD2	2.28	0.85
19:AZ:70:PRO:HD2	19:AZ:71:ALA:N	1.89	0.85
19:AZ:99:LEU:HD22	19:AZ:102:LYS:CD	2.04	0.85
21:Ab:32:PHE:O	21:Ab:81:ARG:O	1.94	0.85
26:AJ:37:LEU:HD21	26:AJ:42:GLU:HB2	1.49	0.85
26:AJ:102:ILE:HG22	26:AJ:106:LEU:HD13	1.56	0.85
29:AG:64:LYS:HG3	29:AG:67:VAL:CG1	2.06	0.85
29:AG:130:PRO:CA	58:CW:81:ALA:CB	2.48	0.85
39:Cq:45:MET:HE1	39:Cq:48:ARG:HG2	1.57	0.85
40:CK:33:GLY:O	40:CK:38:SER:OG	1.93	0.85
43:CV:33:GLY:HA3	43:CV:69:LYS:CE	2.04	0.85
47:CI:106:ALA:C	47:CI:108:ALA:HB2	2.00	0.85
48:CD:57:ASN:C	48:CD:58:ARG:CG	2.43	0.85
51:CA:32:VAL:CB	51:CA:163:ARG:HH12	1.88	0.85
52:CS:7:LEU:N	52:CS:7:LEU:CD2	2.38	0.85
52:CS:30:MET:SD	52:CS:47:PHE:CB	2.64	0.85
53:CT:146:LYS:NZ	53:CT:146:LYS:CB	2.37	0.85
63:CB:165:HIS:CB	63:CB:180:LEU:HD11	2.04	0.85
64:CF:188:GLU:CD	74:CC:329:ASN:HD21	1.85	0.85
65:Cc:37:MET:CE	65:Cc:97:ILE:HG13	2.06	0.85
74:CC:233:SER:C	74:CC:263:LEU:CD1	2.47	0.85
81:CE:96:VAL:CG1	81:CE:97:GLY:N	2.29	0.85
82:CG:121:LYS:HD2	82:CG:122:ALA:CA	2.06	0.85
82:CG:194:VAL:O	82:CG:195:HIS:HB2	1.75	0.85
2:Ag:7:LEU:HD11	2:Ag:310:TRP:NE1	1.74	0.85
13:AP:53:GLN:CG	13:AP:80:LEU:HD11	1.88	0.85
14:AT:64:LEU:N	14:AT:64:LEU:HD23	1.90	0.85
15:AB:52:THR:HG22	82:CG:264:LYS:HZ1	1.42	0.85
17:AV:3:ASN:OD1	17:AV:7:GLU:HB2	1.76	0.85
18:AY:12:PHE:HZ	18:AY:21:LYS:HB3	1.33	0.85
18:AY:33:ALA:CB	36:B2:581:U:O2'	2.24	0.85
23:AD:193:ASP:OD1	23:AD:203:PRO:HA	1.76	0.85
28:AC:117:ARG:HB2	28:AC:117:ARG:HH21	1.38	0.85
34:AQ:135:PRO:HD2	34:AQ:141:TYR:CE1	2.11	0.85
39:Cq:12:ASN:O	39:Cq:16:LYS:HE3	1.70	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:20:GLY:HA3	40:CK:92:ARG:NH2	1.91	0.85
40:CK:94:LYS:CG	40:CK:96:LYS:CE	2.52	0.85
41:CO:14:HIS:NE2	41:CO:119:VAL:HG13	1.91	0.85
41:CO:187:LYS:HE3	41:CO:187:LYS:CA	2.04	0.85
43:CV:106:VAL:HG13	43:CV:111:GLU:O	1.75	0.85
45:Ca:11:LEU:HD13	45:Ca:17:HIS:O	1.76	0.85
46:CN:78:GLY:O	46:CN:80:THR:N	2.08	0.85
47:CI:103:LEU:N	47:CI:103:LEU:HD22	1.91	0.85
47:CI:156:LYS:HG2	47:CI:163:GLN:HE21	1.41	0.85
48:CD:152:ARG:NH1	79:CJ:145:LYS:CE	2.39	0.85
57:CY:50:ARG:CD	57:CY:51:LYS:H	1.89	0.85
60:Cr:81:THR:O	60:Cr:82:ILE:CB	2.17	0.85
63:CB:108:GLU:HA	63:CB:137:TRP:NE1	1.90	0.85
74:CC:44:LEU:O	74:CC:47:ASN:N	2.07	0.85
79:CJ:169:LYS:HD2	79:CJ:170:TYR:CE2	2.11	0.85
83:Ct:19:ASP:OD2	84:Cv:32:ILE:HD12	1.76	0.85
84:Cv:7:TYR:CZ	84:Cv:42:VAL:HB	2.11	0.85
2:Ag:175:LYS:HD3	2:Ag:177:TRP:CZ2	2.10	0.85
11:AL:12:LYS:HZ1	33:AI:194:GLU:HG2	0.75	0.85
16:AA:54:THR:OG1	16:AA:162:PRO:HG2	1.77	0.85
16:AA:145:ILE:HD13	16:AA:159:ILE:CG2	2.06	0.85
23:AD:218:LEU:CB	23:AD:220:THR:HG21	1.99	0.85
24:Ae:28:LYS:CG	24:Ae:33:LYS:CA	2.52	0.85
26:AJ:87:LEU:HD11	26:AJ:91:LYS:CB	2.06	0.85
27:AE:11:ARG:NH1	27:AE:20:LEU:HB3	1.90	0.85
31:AH:143:ARG:HD3	32:AW:53:ILE:HG12	0.86	0.85
31:AH:147:LYS:HE2	31:AH:153:LEU:CD1	2.06	0.85
32:AW:129:PHE:O	32:AW:129:PHE:CD1	2.30	0.85
34:AQ:50:LYS:HZ2	34:AQ:85:ARG:HH21	0.88	0.85
35:Ah:285:PRO:HB2	35:Ah:288:MET:HB2	1.58	0.85
36:B2:24:C:O2'	36:B2:25:A:H5'	1.76	0.85
36:B2:1412:C:H2'	36:B2:1413:G:C8	2.11	0.85
38:Cz:156:LYS:H	38:Cz:156:LYS:HD2	1.38	0.85
41:CO:16:LEU:CD2	41:CO:41:ILE:CG1	2.51	0.85
43:CV:99:GLU:OE1	58:CW:23:ARG:CG	2.24	0.85
45:Ca:84:GLU:C	45:Ca:87:ARG:CG	2.49	0.85
48:CD:21:ARG:CG	48:CD:24:ARG:NH1	2.39	0.85
48:CD:262:LYS:HD3	48:CD:266:TRP:CD1	2.10	0.85
50:CR:28:GLU:HG3	50:CR:49:LEU:CD2	2.05	0.85
51:CA:253:GLN:HG3	51:CA:255:LYS:CD	2.04	0.85
52:CS:173:ASN:HD22	52:CS:173:ASN:C	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CT:40:VAL:HG11	53:CT:96:ILE:HG23	0.87	0.85
53:CT:125:TRP:NE1	53:CT:126:VAL:HB	1.91	0.85
56:CX:52:LEU:C	56:CX:52:LEU:HD13	2.01	0.85
56:CX:141:ALA:HB1	56:CX:142:PRO:HD3	1.57	0.85
58:CW:8:PHE:CD1	58:CW:46:PRO:HG3	2.11	0.85
60:Cr:90:LEU:HB2	60:Cr:118:LEU:HD11	1.58	0.85
64:CF:148:LYS:HB3	64:CF:245:ARG:NH1	1.90	0.85
64:CF:182:TYR:HD1	64:CF:200:ARG:NE	1.73	0.85
70:CI:81:ILE:O	70:CI:85:ARG:HD3	1.77	0.85
74:CC:64:ALA:HB3	74:CC:92:PHE:HZ	1.39	0.85
82:CG:49:ARG:O	82:CG:51:LEU:HD21	1.75	0.85
82:CG:265:LEU:O	82:CG:266:GLY:O	1.94	0.85
85:A5:1823:G:H3'	85:A5:1824:G:C8	2.11	0.85
85:A5:4302:U:C5	85:A5:4303:C:C5	2.64	0.85
1:Az:143:LEU:HD21	1:Az:189:ILE:HD11	1.56	0.85
1:Az:432:PRO:O	1:Az:433:ASN:OD1	1.94	0.85
1:Az:574:ASP:HB3	1:Az:575:PRO:C	2.01	0.85
1:Az:590:LEU:CD2	1:Az:605:LYS:HE3	2.06	0.85
1:Az:762:VAL:CG1	1:Az:766:LYS:NZ	2.37	0.85
2:Ag:194:TYR:OH	2:Ag:235:ILE:CD1	2.23	0.85
5:AO:72:TYR:CB	30:AF:135:ARG:NH2	2.40	0.85
12:AR:105:MET:CG	16:AA:48:ILE:HG22	2.05	0.85
13:AP:33:LEU:HD22	13:AP:87:PRO:HG3	1.58	0.85
16:AA:30:LEU:HG	16:AA:31:ASP:O	1.75	0.85
18:AY:45:ALA:HA	18:AY:55:ILE:HD12	1.58	0.85
18:AY:63:HIS:CB	18:AY:64:PHE:CD1	2.59	0.85
18:AY:118:ARG:HH22	29:AG:85:ARG:HD2	1.35	0.85
18:AY:122:LYS:CD	18:AY:123:ALA:H	1.87	0.85
20:Aa:45:VAL:HG12	20:Aa:53:ILE:HD13	1.59	0.85
26:AJ:65:GLU:O	26:AJ:66:LYS:HB2	1.75	0.85
27:AE:23:LEU:O	27:AE:24:THR:CG2	2.24	0.85
28:AC:94:ILE:HD11	28:AC:162:ILE:CD1	2.04	0.85
39:Cq:43:ILE:HD12	39:Cq:187:LEU:HD21	1.58	0.85
39:Cq:220:ARG:HH12	39:Cq:223:ALA:HB2	1.39	0.85
41:CO:190:ASP:CB	41:CO:193:THR:CA	2.54	0.85
44:CM:77:TRP:CG	44:CM:82:ILE:CD1	2.60	0.85
46:CN:187:SER:O	46:CN:188:ARG:HB3	1.76	0.85
49:CQ:8:ASN:HD22	49:CQ:8:ASN:H	0.86	0.85
52:CS:98:ARG:CZ	52:CS:145:PHE:HB3	2.05	0.85
52:CS:140:PRO:HD2	52:CS:141:ALA:H	1.40	0.85
53:CT:127:GLN:CA	53:CT:127:GLN:NE2	2.30	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:54:GLY:O	55:CU:55:ASN:HB2	1.77	0.85
57:CY:27:ARG:CZ	57:CY:28:LYS:HE3	2.05	0.85
59:CZ:88:ASP:HB3	59:CZ:121:ARG:NH2	1.91	0.85
63:CB:51:ALA:C	63:CB:78:ILE:HD11	2.02	0.85
67:Ce:21:ILE:HD13	67:Ce:21:ILE:H	1.32	0.85
82:CG:81:ASN:ND2	82:CG:238:GLY:H	1.73	0.85
85:A5:294:G:C6	85:A5:315:G:O2'	2.29	0.85
1:Az:113:SER:HB3	1:Az:533:MET:HE2	1.58	0.85
1:Az:713:ALA:HA	1:Az:716:ARG:HB3	1.58	0.85
2:Ag:165:ILE:CG1	2:Ag:177:TRP:HB2	2.06	0.85
2:Ag:275:ILE:CD1	2:Ag:276:SER:H	1.90	0.85
5:AO:51:GLU:OE2	15:AB:28:LYS:CE	2.25	0.85
10:AN:27:LYS:HD2	10:AN:28:LEU:N	1.91	0.85
13:AP:89:MET:HB3	13:AP:107:ILE:CD1	2.07	0.85
16:AA:16:LEU:C	16:AA:17:LYS:HE2	2.02	0.85
16:AA:180:ARG:HD3	16:AA:184:ARG:CZ	2.07	0.85
19:AZ:85:ARG:CG	19:AZ:85:ARG:HH11	1.89	0.85
20:Aa:58:VAL:CG1	20:Aa:59:PHE:N	2.22	0.85
27:AE:124:CYS:HB3	27:AE:141:THR:HB	1.58	0.85
28:AC:97:PHE:C	28:AC:98:LEU:HD12	2.00	0.85
31:AH:144:ILE:CD1	32:AW:52:ILE:CG2	2.47	0.85
34:AQ:42:ILE:CD1	34:AQ:51:LEU:HD11	2.07	0.85
39:Cq:111:ALA:HB1	39:Cq:183:PHE:CD1	2.11	0.85
41:CO:54:TYR:CE2	41:CO:58:LEU:HD21	2.12	0.85
44:CM:34:ASN:O	44:CM:35:ARG:HG2	1.77	0.85
50:CR:132:PHE:CD1	50:CR:137:ILE:HG12	2.11	0.85
51:CA:116:LEU:CD1	51:CA:126:LEU:HD12	2.03	0.85
52:CS:154:LEU:HD13	52:CS:157:ARG:NH1	1.89	0.85
63:CB:81:THR:HB	63:CB:329:ASP:O	1.77	0.85
66:Cd:25:TYR:CD2	66:Cd:88:LEU:HD21	2.10	0.85
68:Cf:33:VAL:C	68:Cf:34:TYR:CD1	2.54	0.85
70:Ci:11:LEU:H	70:Ci:12:ASN:HD21	1.23	0.85
74:CC:9:SER:HA	74:CC:21:ASN:OD1	1.75	0.85
74:CC:204:ARG:HE	74:CC:204:ARG:HA	1.40	0.85
80:CH:7:ASN:HB3	80:CH:58:ASP:CG	2.01	0.85
81:CE:149:ILE:CA	81:CE:163:VAL:HG13	2.05	0.85
85:A5:4936:G:H8	85:A5:4936:G:H5''	1.40	0.85
1:Az:150:ARG:CA	1:Az:200:MET:HE1	2.07	0.85
3:AU:49:LYS:O	3:AU:50:VAL:CG1	2.24	0.85
4:AK:27:VAL:HG13	4:AK:43:LEU:HD23	1.51	0.85
12:AR:99:ASP:CA	12:AR:119:VAL:HG12	2.02	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:11:GLN:HE22	14:AT:62:ARG:NH2	1.74	0.85
14:AT:18:LEU:CD1	14:AT:134:ILE:HD13	2.05	0.85
15:AB:49:VAL:HG22	15:AB:65:ARG:HH22	1.36	0.85
17:AV:60:ARG:HG2	17:AV:65:SER:HB3	1.58	0.85
18:AY:114:MET:CA	18:AY:124:ASN:HD22	1.88	0.85
30:AF:121:PRO:HA	30:AF:193:LYS:HE3	1.58	0.85
30:AF:195:GLU:OE1	30:AF:195:GLU:HA	1.77	0.85
34:AQ:16:LYS:NZ	36:B2:1648:G:O6	2.08	0.85
39:Cq:43:ILE:HD11	39:Cq:187:LEU:HD21	1.55	0.85
39:Cq:211:LEU:HD12	83:Cs:50:ALA:CB	2.01	0.85
40:CK:125:LEU:HD12	40:CK:163:PRO:CB	2.04	0.85
45:Ca:73:VAL:CG2	45:Ca:108:TYR:CG	2.59	0.85
47:CI:10:ARG:NE	47:CI:58:GLU:OE1	2.09	0.85
52:CS:15:ARG:NH1	52:CS:24:THR:HG21	1.91	0.85
52:CS:20:PRO:O	52:CS:21:LYS:CG	2.23	0.85
53:CT:29:THR:HG1	53:CT:30:TYR:HE2	1.15	0.85
54:CP:27:LYS:HG3	54:CP:63:TYR:CD1	2.12	0.85
54:CP:109:VAL:CG1	54:CP:110:ASP:N	2.38	0.85
56:CX:117:TYR:CB	56:CX:119:ILE:HG22	2.04	0.85
59:CZ:118:PHE:CZ	59:CZ:130:PHE:HZ	1.92	0.85
60:Cr:71:ARG:CG	60:Cr:79:ARG:HB3	2.05	0.85
67:Ce:6:PRO:CG	67:Ce:93:LYS:CE	2.38	0.85
68:Cf:32:GLY:O	81:CE:284:HIS:ND1	2.09	0.85
74:CC:77:PRO:HG2	74:CC:92:PHE:CE2	2.11	0.85
74:CC:289:LEU:H	74:CC:289:LEU:HD23	1.40	0.85
78:Co:66:ILE:HG12	78:Co:85:ILE:HG13	1.55	0.85
80:CH:69:THR:O	80:CH:72:THR:HG22	1.77	0.85
81:CE:94:LYS:H	81:CE:95:PRO:HD2	1.39	0.85
81:CE:149:ILE:CD1	81:CE:161:ARG:HB3	2.06	0.85
81:CE:212:LEU:HD11	81:CE:216:TYR:HD2	1.33	0.85
81:CE:224:LYS:CA	81:CE:226:ARG:HH11	1.80	0.85
82:CG:162:ASP:N	82:CG:163:PRO:CD	2.38	0.85
85:A5:2253:A:H61	85:A5:2260:C:N4	1.75	0.85
1:Az:240:GLY:CA	1:Az:241:GLU:CB	2.55	0.85
3:AU:62:ARG:HH12	3:AU:64:THR:HG21	1.00	0.85
3:AU:104:ILE:O	3:AU:105:SER:C	2.13	0.85
4:AK:74:GLU:OE1	4:AK:74:GLU:HA	1.77	0.85
6:AX:138:LYS:C	6:AX:139:GLU:CD	2.43	0.85
10:AN:99:ARG:NH2	10:AN:115:LEU:CD2	2.40	0.85
11:AL:8:ARG:NH1	33:AI:85:ALA:HB1	1.89	0.85
11:AL:151:THR:O	11:AL:153:LYS:N	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:100:PRO:HA	12:AR:103:LYS:CB	2.03	0.85
15:AB:75:GLN:HA	15:AB:75:GLN:NE2	1.90	0.85
18:AY:119:GLY:O	18:AY:121:ALA:N	2.10	0.85
21:Ab:34:ASP:HB3	21:Ab:43:ILE:CG2	2.07	0.85
23:AD:212:GLU:O	23:AD:213:PRO:O	1.95	0.85
26:AJ:37:LEU:HD21	26:AJ:42:GLU:C	2.01	0.85
28:AC:259:THR:HG21	28:AC:261:PHE:HA	1.59	0.85
29:AG:41:LEU:HD22	29:AG:45:TRP:HE3	1.33	0.85
31:AH:144:ILE:CG1	32:AW:52:ILE:CG2	2.53	0.85
38:Cz:40:ASN:HB3	38:Cz:197:ASN:CG	2.02	0.85
39:Cq:111:ALA:CB	39:Cq:183:PHE:CD1	2.59	0.85
39:Cq:198:ILE:C	83:Cs:42:PHE:HE1	1.81	0.85
40:CK:102:GLY:O	40:CK:140:GLY:O	1.93	0.85
41:CO:122:ALA:CB	52:CS:161:ARG:CB	2.41	0.85
42:CL:27:ASN:O	42:CL:29:PRO:CD	2.24	0.85
46:CN:138:PHE:CA	46:CN:143:ARG:NH2	2.38	0.85
49:CQ:63:LEU:O	49:CQ:67:ILE:HG12	1.77	0.85
56:CX:41:ARG:NH1	56:CX:46:PHE:CE1	2.45	0.85
63:CB:381:THR:HG23	63:CB:383:GLU:HG3	1.57	0.85
67:Ce:69:MET:HE3	67:Ce:75:ARG:CZ	2.06	0.85
74:CC:144:ILE:CG2	74:CC:147:VAL:CB	2.53	0.85
81:CE:121:VAL:HG13	81:CE:122:PRO:N	1.87	0.85
81:CE:151:ILE:O	81:CE:194:VAL:HG13	1.77	0.85
84:Cv:7:TYR:CE2	84:Cv:42:VAL:CG1	2.46	0.85
1:Az:343:TRP:O	1:Az:343:TRP:CE3	2.30	0.85
1:Az:526:ARG:HH11	1:Az:526:ARG:HG2	1.41	0.85
1:Az:634:TYR:CE1	1:Az:638:LYS:HG2	2.12	0.85
3:AU:56:MET:HE1	3:AU:88:LEU:HG	1.57	0.85
8:AS:8:LYS:HA	19:AZ:49:LEU:HD23	1.57	0.85
15:AB:149:GLN:HE21	15:AB:151:ARG:HG2	1.41	0.85
18:AY:120:THR:C	18:AY:122:LYS:HD2	2.02	0.85
23:AD:47:GLU:CD	23:AD:85:GLU:OE2	2.19	0.85
25:Af:88:PRO:O	25:Af:89:LYS:C	2.07	0.85
29:AG:67:VAL:O	29:AG:68:LEU:HB2	1.76	0.85
38:Cz:67:VAL:CG2	38:Cz:82:ILE:HG21	2.07	0.85
39:Cq:80:PRO:HB2	39:Cq:81:HIS:CE1	2.10	0.85
39:Cq:95:LEU:HD12	39:Cq:96:THR:N	1.91	0.85
40:CK:94:LYS:CB	40:CK:96:LYS:HE3	2.07	0.85
41:CO:38:CYS:O	41:CO:41:ILE:HG22	1.76	0.85
44:CM:60:PHE:HZ	44:CM:85:LYS:HG3	0.80	0.85
46:CN:115:VAL:HG22	46:CN:134:LEU:CD2	2.00	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:186:GLY:CA	46:CN:191:ALA:HB2	2.07	0.85
48:CD:44:TYR:CZ	53:CT:34:TYR:O	2.29	0.85
49:CQ:64:SER:HB3	49:CQ:92:VAL:HG23	1.59	0.85
49:CQ:146:ARG:NH1	49:CQ:148:VAL:HB	1.92	0.85
51:CA:137:ILE:HG22	51:CA:137:ILE:O	1.76	0.85
53:CT:35:LYS:N	53:CT:38:ASP:OD2	2.09	0.85
60:Cr:71:ARG:HB3	60:Cr:71:ARG:NH1	1.91	0.85
65:Cc:17:ARG:HG2	65:Cc:104:ILE:HG12	1.59	0.85
70:Ci:79:THR:HB	70:Ci:82:ARG:HG3	1.58	0.85
72:Ck:23:VAL:HG21	72:Ck:64:LEU:HD21	1.57	0.85
74:CC:147:VAL:CA	74:CC:175:LYS:CG	2.50	0.85
80:CH:34:LEU:CD2	80:CH:150:ASP:CG	2.49	0.85
81:CE:121:VAL:HG13	81:CE:122:PRO:HD2	1.58	0.85
81:CE:280:GLY:C	81:CE:282:TYR:HE2	1.84	0.85
1:Az:692:LEU:HG	1:Az:824:PRO:CB	2.06	0.85
1:Az:845:LYS:HZ3	1:Az:846:GLU:HG2	1.01	0.85
2:Ag:31:ILE:CG2	2:Ag:43:TRP:HB2	2.06	0.85
2:Ag:172:LYS:HE3	2:Ag:192:THR:HB	1.59	0.85
5:AO:20:GLN:CG	5:AO:21:VAL:N	2.39	0.85
6:AX:51:VAL:CG1	6:AX:70:VAL:CG1	2.52	0.85
6:AX:142:ARG:NH1	6:AX:142:ARG:HG3	1.91	0.85
8:AS:120:HIS:NE2	8:AS:124:ARG:NH2	2.20	0.85
16:AA:39:TYR:CB	16:AA:50:ASN:ND2	2.40	0.85
18:AY:7:ILE:CD1	18:AY:43:LYS:CD	2.55	0.85
25:Af:86:THR:O	25:Af:87:THR:HB	1.74	0.85
25:Af:140:TYR:CZ	25:Af:146:LEU:HA	2.11	0.85
26:AJ:88:ASP:C	26:AJ:92:MET:CG	2.48	0.85
30:AF:46:ALA:C	30:AF:47:LYS:HD2	2.00	0.85
31:AH:9:VAL:C	31:AH:11:PRO:HD3	2.02	0.85
38:Cz:26:ARG:CD	38:Cz:210:MET:SD	2.65	0.85
40:CK:102:GLY:C	40:CK:139:VAL:C	2.37	0.85
41:CO:119:VAL:HG12	41:CO:124:LEU:CD1	2.01	0.85
41:CO:121:PRO:CA	41:CO:124:LEU:HD13	2.06	0.85
42:CL:50:PRO:CA	42:CL:51:ALA:CB	2.37	0.85
42:CL:160:VAL:HG23	42:CL:161:TYR:H	1.42	0.85
44:CM:42:CYS:HB2	44:CM:77:TRP:CD1	2.12	0.85
47:CI:82:ARG:HG2	47:CI:82:ARG:NH1	1.87	0.85
47:CI:86:HIS:CD2	47:CI:139:ARG:HH11	1.90	0.85
47:CI:213:HIS:O	47:CI:213:HIS:CG	2.30	0.85
50:CR:101:ILE:HG12	50:CR:104:ARG:HH11	1.37	0.85
51:CA:180:LEU:HD11	77:Cp:18:TYR:CG	2.11	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:83:ARG:HD2	53:CT:156:TYR:N	1.90	0.85
54:CP:88:ALA:O	54:CP:91:LEU:HG	1.77	0.85
59:CZ:33:THR:HG21	59:CZ:40:HIS:CE1	2.12	0.85
63:CB:108:GLU:HG3	63:CB:137:TRP:HD1	1.31	0.85
63:CB:114:CYS:SG	63:CB:180:LEU:HD22	2.15	0.85
63:CB:303:ALA:O	63:CB:312:LYS:NZ	2.09	0.85
63:CB:352:LEU:HD23	63:CB:353:VAL:C	2.02	0.85
68:Cf:74:VAL:HG13	68:Cf:84:VAL:CG1	2.07	0.85
70:Ci:50:PHE:HZ	70:Ci:93:VAL:HG21	1.41	0.85
74:CC:109:ARG:CD	74:CC:111:TRP:CZ3	2.60	0.85
75:Cm:127:VAL:CG1	75:Cm:128:LYS:C	2.30	0.85
1:Az:692:LEU:CG	1:Az:824:PRO:CB	2.55	0.84
6:AX:126:ALA:HB3	6:AX:128:VAL:CG1	2.07	0.84
7:AM:91:LEU:HD22	7:AM:104:VAL:CG1	2.06	0.84
11:AL:59:LYS:HD3	11:AL:112:HIS:CD2	2.12	0.84
12:AR:85:VAL:HG13	16:AA:198:MET:HB2	1.56	0.84
15:AB:105:LEU:HD21	15:AB:213:ARG:HA	1.59	0.84
17:AV:23:ILE:HD11	28:AC:249:SER:HA	1.57	0.84
18:AY:7:ILE:HD12	18:AY:43:LYS:CB	2.05	0.84
23:AD:70:THR:HA	23:AD:86:LEU:HD13	1.56	0.84
23:AD:132:LYS:CA	23:AD:191:PRO:HG2	2.04	0.84
26:AJ:31:LEU:O	26:AJ:35:TYR:HB2	1.77	0.84
27:AE:126:VAL:HG21	27:AE:129:ILE:HD11	1.58	0.84
27:AE:208:VAL:CB	27:AE:225:ILE:HD13	2.01	0.84
29:AG:147:LEU:O	29:AG:148:SER:OG	1.93	0.84
31:AH:9:VAL:C	31:AH:11:PRO:CD	2.50	0.84
35:Ah:152:SER:CA	35:Ah:154:ASP:N	2.40	0.84
39:Cq:116:ILE:HG22	39:Cq:166:LYS:HD3	1.57	0.84
39:Cq:220:ARG:NH2	39:Cq:223:ALA:CB	2.40	0.84
41:CO:145:VAL:O	41:CO:145:VAL:HG12	1.77	0.84
42:CL:21:ARG:O	46:CN:197:THR:HA	1.77	0.84
42:CL:64:VAL:HA	42:CL:67:HIS:NE2	1.91	0.84
43:CV:89:ARG:HG3	43:CV:95:PHE:CZ	2.11	0.84
46:CN:21:PHE:CD2	82:CG:80:ILE:HD12	2.12	0.84
46:CN:68:ARG:HG3	46:CN:69:GLY:N	1.91	0.84
55:CU:60:VAL:HA	55:CU:75:GLU:CB	2.06	0.84
58:CW:80:ARG:HD3	58:CW:81:ALA:H	1.38	0.84
61:Ch:87:LYS:HA	71:Cj:73:ARG:HH22	1.39	0.84
65:Cc:29:LEU:HD12	65:Cc:89:TYR:CZ	2.12	0.84
75:Cm:106:ARG:HD3	75:Cm:106:ARG:N	1.89	0.84
78:Co:25:GLN:CD	78:Co:91:PHE:HZ	1.79	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:17:ILE:CD1	79:CJ:83:LEU:HD12	2.07	0.84
79:CJ:99:PHE:CD1	79:CJ:105:PHE:HB3	2.12	0.84
82:CG:39:PHE:HZ	82:CG:47:PRO:HD3	0.78	0.84
82:CG:113:ARG:HH21	82:CG:113:ARG:HG3	0.74	0.84
1:Az:4:PHE:O	1:Az:46:ILE:CG1	2.25	0.84
1:Az:61:LYS:O	1:Az:62:ASP:HB2	1.76	0.84
1:Az:120:ARG:NH1	1:Az:495:ARG:HB3	1.93	0.84
6:AX:102:VAL:CG1	6:AX:120:PHE:HB3	2.07	0.84
13:AP:10:ARG:NH2	13:AP:11:THR:CB	2.30	0.84
14:AT:4:VAL:HG12	14:AT:8:ASP:HB3	1.59	0.84
23:AD:198:ILE:HD12	23:AD:198:ILE:O	1.77	0.84
24:Ae:31:ARG:HB3	24:Ae:31:ARG:HH21	1.40	0.84
27:AE:21:ASP:OD1	27:AE:24:THR:HG21	1.76	0.84
28:AC:169:TYR:OH	28:AC:177:PRO:CD	2.24	0.84
30:AF:46:ALA:C	30:AF:47:LYS:CD	2.50	0.84
32:AW:90:GLN:CA	32:AW:102:ILE:HD11	2.06	0.84
34:AQ:12:VAL:HG12	34:AQ:13:PHE:H	1.40	0.84
39:Cq:75:LEU:CD2	39:Cq:78:LEU:HD11	2.07	0.84
39:Cq:174:LEU:HD12	39:Cq:175:LEU:N	1.92	0.84
40:CK:57:ARG:NH2	40:CK:89:PRO:HA	1.90	0.84
40:CK:107:ASP:OD1	40:CK:143:VAL:HG22	1.76	0.84
41:CO:108:ILE:HG23	41:CO:160:ARG:CD	2.07	0.84
44:CM:77:TRP:C	44:CM:82:ILE:HD11	2.02	0.84
48:CD:163:LEU:HD11	48:CD:173:ILE:HG22	1.59	0.84
49:CQ:50:ARG:HB3	49:CQ:83:VAL:HG11	1.60	0.84
49:CQ:154:LYS:CE	49:CQ:156:PRO:N	2.38	0.84
50:CR:31:GLU:CD	55:CU:125:GLU:N	2.34	0.84
51:CA:122:ASP:OD2	51:CA:125:LYS:HD3	1.77	0.84
52:CS:20:PRO:O	52:CS:21:LYS:CD	2.25	0.84
53:CT:17:ARG:HG2	53:CT:17:ARG:NH2	1.91	0.84
60:Cr:47:LYS:HG3	60:Cr:47:LYS:O	1.77	0.84
66:Cd:57:MET:HE1	66:Cd:88:LEU:CD1	2.02	0.84
67:Ce:129:LEU:CG	67:Ce:130:ARG:H	1.90	0.84
82:CG:100:HIS:O	82:CG:100:HIS:CG	2.30	0.84
83:Cs:54:VAL:HG11	83:Cs:59:LEU:HD11	1.56	0.84
84:Cu:18:PRO:O	84:Cu:23:ILE:HD11	1.77	0.84
84:Cv:7:TYR:CD2	84:Cv:42:VAL:HG11	2.11	0.84
1:Az:610:PRO:CB	1:Az:613:LEU:HG	2.05	0.84
1:Az:763:LEU:HD11	1:Az:786:ALA:HB3	1.59	0.84
22:Ac:11:LEU:CD1	22:Ac:35:MET:HE2	2.07	0.84
23:AD:218:LEU:HB2	23:AD:220:THR:HG21	1.53	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:159:THR:HG21	27:AE:227:VAL:HG23	1.55	0.84
28:AC:63:VAL:HG23	28:AC:90:GLU:CD	2.03	0.84
29:AG:63:MET:HE3	29:AG:106:LEU:CD1	2.07	0.84
30:AF:14:THR:CB	34:AQ:56:LEU:CD1	2.55	0.84
39:Cq:25:PRO:CG	39:Cq:92:LYS:CB	2.46	0.84
45:Ca:52:TYR:CD2	45:Ca:52:TYR:O	2.29	0.84
57:CY:44:VAL:CG1	57:CY:122:LYS:HD3	2.06	0.84
57:CY:50:ARG:O	57:CY:53:ASP:HB2	1.77	0.84
60:Cr:71:ARG:HH11	60:Cr:71:ARG:CB	1.91	0.84
60:Cr:112:ARG:HD3	67:Ce:90:MET:HE2	1.60	0.84
63:CB:80:GLU:OE1	63:CB:171:LEU:CG	2.24	0.84
64:CF:118:PHE:HE2	64:CF:215:SER:HG	1.23	0.84
64:CF:161:LYS:HD3	64:CF:209:TRP:CZ3	2.10	0.84
68:Cf:33:VAL:O	68:Cf:34:TYR:CD1	2.29	0.84
69:Cg:97:ILE:O	69:Cg:101:LYS:HG3	1.77	0.84
77:Cp:75:SER:O	77:Cp:79:VAL:HG23	1.77	0.84
82:CG:108:GLN:HA	82:CG:111:LYS:HE2	1.57	0.84
82:CG:255:LYS:CE	82:CG:259:LYS:CE	2.54	0.84
83:Ct:17:HIS:CE1	83:Ct:56:ILE:CD1	2.60	0.84
83:Ct:43:TRP:N	83:Ct:44:PRO:HD3	1.92	0.84
1:Az:59:THR:N	1:Az:63:GLU:OE1	2.10	0.84
2:Ag:255:SER:HB2	2:Ag:270:LEU:O	1.76	0.84
6:AX:94:ILE:CG1	6:AX:125:VAL:HG21	2.07	0.84
8:AS:95:TYR:N	8:AS:95:TYR:HD1	1.72	0.84
9:Ad:12:ARG:HD2	9:Ad:17:GLY:O	1.77	0.84
12:AR:5:ARG:C	12:AR:10:LYS:HE2	2.02	0.84
12:AR:19:LYS:HD3	23:AD:212:GLU:CB	2.03	0.84
12:AR:32:LYS:HE2	12:AR:33:ARG:HE	1.41	0.84
23:AD:97:CYS:SG	23:AD:99:ILE:CG1	2.65	0.84
24:Ae:41:ARG:C	24:Ae:45:VAL:HG22	2.00	0.84
30:AF:28:VAL:HG22	30:AF:110:GLN:HG2	1.57	0.84
32:AW:129:PHE:C	32:AW:129:PHE:CD1	2.45	0.84
36:B2:1412:C:OP1	36:B2:1412:C:H4'	1.76	0.84
38:Cz:67:VAL:HG22	38:Cz:111:LEU:HD12	1.59	0.84
39:Cq:25:PRO:HD2	39:Cq:26:LYS:H	1.42	0.84
49:CQ:158:THR:HB	49:CQ:188:ASN:O	1.76	0.84
64:CF:161:LYS:CD	64:CF:209:TRP:CZ3	2.60	0.84
65:Cc:74:TYR:CE2	65:Cc:76:GLY:CA	2.61	0.84
67:Ce:6:PRO:HD2	67:Ce:93:LYS:HB3	0.85	0.84
82:CG:27:VAL:O	82:CG:31:LEU:HD22	1.75	0.84
83:Cs:12:SER:N	84:Cu:9:LEU:HD21	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:628:LEU:HD22	1:Az:631:ARG:HH21	1.40	0.84
4:AK:88:GLU:OE1	35:Ah:282:GLU:HA	1.77	0.84
6:AX:105:PHE:CD1	6:AX:112:VAL:HG21	2.13	0.84
6:AX:125:VAL:O	6:AX:128:VAL:N	2.10	0.84
7:AM:50:CYS:O	7:AM:77:ILE:HG22	1.78	0.84
8:AS:54:LYS:N	8:AS:54:LYS:HA	1.90	0.84
15:AB:139:CYS:SG	15:AB:212:VAL:HG12	2.16	0.84
16:AA:11:LYS:HD3	16:AA:13:GLU:CG	2.08	0.84
23:AD:140:GLY:O	35:Ah:177:ARG:NH2	2.10	0.84
23:AD:197:LYS:CB	23:AD:198:ILE:CB	2.55	0.84
27:AE:198:ARG:O	27:AE:198:ARG:HG2	1.75	0.84
30:AF:201:LYS:CE	30:AF:204:ARG:NH2	2.39	0.84
31:AH:122:LEU:CD1	31:AH:123:THR:HG23	2.08	0.84
37:BC:37:A:H2'	37:BC:38:C:H5'	1.59	0.84
40:CK:57:ARG:HH22	40:CK:89:PRO:HA	1.41	0.84
40:CK:94:LYS:CB	40:CK:96:LYS:CE	2.51	0.84
40:CK:160:VAL:HA	40:CK:163:PRO:HG3	1.49	0.84
43:CV:33:GLY:HA2	43:CV:69:LYS:HE3	1.59	0.84
46:CN:58:GLY:CA	46:CN:139:HIS:HD2	1.81	0.84
48:CD:119:TYR:OH	48:CD:139:PRO:O	1.94	0.84
50:CR:106:LEU:HD21	50:CR:127:VAL:HG21	1.57	0.84
51:CA:66:PRO:HB2	51:CA:67:TYR:CE2	2.11	0.84
52:CS:15:ARG:HG2	52:CS:25:PRO:HB2	1.59	0.84
53:CT:91:VAL:HB	53:CT:96:ILE:HD11	1.60	0.84
54:CP:47:TYR:CE1	54:CP:56:GLN:OE1	2.30	0.84
56:CX:43:SER:N	82:CG:51:LEU:HD12	1.92	0.84
58:CW:87:LEU:O	58:CW:91:MET:SD	2.35	0.84
58:CW:110:ARG:N	58:CW:110:ARG:HD3	1.92	0.84
63:CB:397:ILE:CG2	63:CB:398:ALA:N	2.39	0.84
65:Cc:27:TYR:CE1	65:Cc:29:LEU:HG	2.12	0.84
65:Cc:52:CYS:HB2	65:Cc:92:CYS:SG	2.17	0.84
68:Cf:33:VAL:O	68:Cf:34:TYR:CG	2.30	0.84
72:Ck:24:LYS:HE2	72:Ck:67:LYS:CB	2.07	0.84
79:CJ:175:LEU:HB3	79:CJ:176:PRO:HD3	1.59	0.84
80:CH:47:LEU:CD1	80:CH:55:LEU:HD23	2.00	0.84
83:Cs:31:LEU:HD21	84:Cu:30:VAL:HG22	1.16	0.84
1:Az:27:HIS:CD2	1:Az:28:VAL:O	2.31	0.84
1:Az:225:LEU:CD2	1:Az:257:MET:O	2.26	0.84
1:Az:481:LYS:NZ	1:Az:532:PRO:O	1.93	0.84
1:Az:845:LYS:HZ1	1:Az:846:GLU:HG2	1.41	0.84
4:AK:6:LYS:O	4:AK:9:ILE:HG22	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:54:LYS:C	8:AS:54:LYS:HA	1.99	0.84
14:AT:85:ASN:O	14:AT:88:MET:HE3	1.77	0.84
23:AD:141:LYS:HD2	23:AD:179:GLN:CG	2.07	0.84
26:AJ:46:VAL:CG1	26:AJ:102:ILE:HG23	2.07	0.84
31:AH:145:ARG:HD2	32:AW:51:GLU:OE1	1.78	0.84
41:CO:124:LEU:CD2	52:CS:172:PRO:HG3	2.07	0.84
41:CO:201:LEU:O	44:CM:100:ARG:HD3	1.78	0.84
47:CI:21:ARG:HD2	47:CI:22:PHE:CE2	2.13	0.84
47:CI:24:ARG:O	47:CI:24:ARG:HG2	1.76	0.84
47:CI:115:MET:HE3	47:CI:118:ALA:HB2	1.60	0.84
48:CD:37:VAL:CG2	48:CD:50:ARG:NH2	2.39	0.84
48:CD:104:LEU:CD2	48:CD:247:ILE:HG12	2.06	0.84
48:CD:152:ARG:HG2	79:CJ:145:LYS:HZ3	1.42	0.84
49:CQ:34:PHE:CG	74:CC:293:LEU:HD22	2.12	0.84
52:CS:154:LEU:CD1	52:CS:157:ARG:NH1	2.41	0.84
55:CU:80:LYS:HD2	55:CU:80:LYS:H	1.41	0.84
57:CY:42:TYR:O	57:CY:43:ASN:O	1.95	0.84
57:CY:44:VAL:HG11	57:CY:122:LYS:HD3	1.57	0.84
58:CW:27:LYS:HG3	58:CW:28:VAL:H	1.02	0.84
60:Cr:77:TYR:CD2	60:Cr:77:TYR:O	2.30	0.84
60:Cr:90:LEU:HB2	60:Cr:118:LEU:CD2	2.07	0.84
63:CB:47:LEU:CD2	63:CB:166:THR:HG21	1.96	0.84
63:CB:54:THR:C	63:CB:76:VAL:HG23	2.02	0.84
63:CB:59:GLU:OE2	63:CB:71:GLU:N	2.11	0.84
63:CB:168:MET:HA	63:CB:168:MET:HE3	1.59	0.84
63:CB:392:LEU:O	63:CB:393:LYS:HB2	1.77	0.84
79:CJ:95:ARG:N	79:CJ:98:ASN:HD22	1.76	0.84
79:CJ:135:GLY:HA2	79:CJ:139:PHE:HE2	1.42	0.84
81:CE:144:ILE:CG2	81:CE:145:THR:N	2.40	0.84
82:CG:23:GLU:O	82:CG:24:ALA:C	2.20	0.84
82:CG:74:LEU:HD12	82:CG:74:LEU:H	1.39	0.84
82:CG:163:PRO:CG	82:CG:166:LEU:HD12	2.07	0.84
82:CG:164:ILE:HG12	82:CG:168:VAL:CG2	2.08	0.84
4:AK:1:MET:HE3	36:B2:1274:G:N2	1.92	0.84
7:AM:61:TYR:CE1	7:AM:108:CYS:SG	2.70	0.84
8:AS:6:PRO:CA	19:AZ:50:PHE:HB2	2.03	0.84
13:AP:41:GLN:HA	13:AP:84:ILE:CD1	2.07	0.84
21:Ab:54:VAL:O	21:Ab:63:LEU:HB3	1.77	0.84
23:AD:202:LYS:HB2	23:AD:203:PRO:CD	2.08	0.84
28:AC:157:LEU:CA	28:AC:160:LEU:HD23	2.04	0.84
29:AG:27:PHE:CE2	29:AG:41:LEU:CD1	2.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:20:PHE:O	30:AF:22:LYS:HA	1.78	0.84
30:AF:75:SER:O	30:AF:78:MET:HG3	1.78	0.84
34:AQ:105:LYS:HZ3	34:AQ:109:LYS:HB2	1.41	0.84
34:AQ:114:GLN:CG	34:AQ:115:TYR:H	1.91	0.84
35:Ah:296:ILE:CG2	35:Ah:298:ASN:HD22	1.91	0.84
38:Cz:143:ASN:HB3	38:Cz:147:LYS:HB2	1.58	0.84
41:CO:121:PRO:HD2	41:CO:122:ALA:N	1.90	0.84
45:Ca:65:ARG:HB3	45:Ca:65:ARG:NH2	1.92	0.84
47:CI:105:CYS:C	47:CI:108:ALA:HB2	2.01	0.84
50:CR:32:ILE:HD13	50:CR:44:LEU:HD11	1.57	0.84
51:CA:104:VAL:HG13	51:CA:107:MET:HE2	1.52	0.84
54:CP:29:THR:HA	54:CP:32:THR:HG23	1.60	0.84
60:Cr:28:GLU:OE1	60:Cr:28:GLU:HA	1.58	0.84
63:CB:223:THR:HG23	63:CB:274:TYR:H	1.42	0.84
63:CB:240:LEU:HB3	63:CB:244:THR:HG21	1.57	0.84
65:Cc:102:SER:HB2	65:Cc:104:ILE:HB	1.57	0.84
72:Ck:11:PHE:O	72:Ck:14:THR:HG22	1.77	0.84
74:CC:7:LEU:HD11	74:CC:21:ASN:HB3	1.58	0.84
74:CC:28:PHE:CZ	74:CC:132:ALA:N	2.42	0.84
74:CC:219:LYS:NZ	74:CC:222:ARG:NH2	2.26	0.84
77:Cp:50:ARG:HD3	77:Cp:54:ILE:HD13	0.86	0.84
80:CH:19:THR:HG1	80:CH:26:ILE:CD1	1.89	0.84
82:CG:73:ARG:HH12	82:CG:242:LEU:C	1.86	0.84
82:CG:241:VAL:O	82:CG:242:LEU:CG	2.26	0.84
1:Az:815:ASP:OD2	1:Az:816:HIS:ND1	2.11	0.84
2:Ag:248:LEU:C	2:Ag:259:TRP:HZ3	1.85	0.84
5:AO:62:VAL:HG22	5:AO:72:TYR:OH	1.75	0.84
6:AX:74:LEU:HD11	6:AX:81:ILE:CD1	2.08	0.84
11:AL:22:ARG:NE	33:AI:155:ASN:O	2.09	0.84
12:AR:102:THR:CG2	16:AA:24:HIS:NE2	2.40	0.84
18:AY:29:HIS:ND1	18:AY:67:GLY:CA	2.37	0.84
28:AC:84:PHE:CZ	28:AC:264:SER:HA	2.12	0.84
30:AF:161:ALA:HB3	30:AF:172:CYS:SG	2.18	0.84
38:Cz:29:LEU:HD21	38:Cz:173:LYS:HB2	1.58	0.84
40:CK:10:ILE:HB	40:CK:67:ARG:N	1.89	0.84
41:CO:190:ASP:OD1	41:CO:194:GLU:CA	2.25	0.84
46:CN:59:TYR:OH	46:CN:148:THR:HG21	1.78	0.84
48:CD:110:LEU:HD11	48:CD:115:MET:O	1.77	0.84
50:CR:99:MET:HE2	50:CR:128:LYS:CA	2.08	0.84
52:CS:98:ARG:HH11	52:CS:145:PHE:HB3	1.35	0.84
59:CZ:57:MET:SD	59:CZ:57:MET:C	2.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Ci:23:LYS:HB2	70:Ci:24:PRO:HD3	1.59	0.84
74:CC:158:VAL:HA	74:CC:161:TYR:HE2	1.38	0.84
74:CC:219:LYS:HZ2	74:CC:222:ARG:NH2	1.75	0.84
74:CC:266:THR:HG23	74:CC:267:TRP:C	2.02	0.84
81:CE:75:ALA:CB	81:CE:76:ALA:CB	2.53	0.84
82:CG:160:ASP:CG	82:CG:187:LYS:HD2	2.03	0.84
1:Az:189:ILE:HG22	1:Az:203:ILE:HG13	1.59	0.84
1:Az:741:MET:HA	1:Az:820:LEU:H	1.43	0.84
3:AU:67:LYS:HE3	3:AU:78:ASP:OD1	1.77	0.84
5:AO:44:VAL:HG12	5:AO:53:ILE:HD11	1.58	0.84
5:AO:105:THR:O	5:AO:106:LYS:CG	2.24	0.84
7:AM:64:LEU:CD1	25:Af:104:LYS:NZ	2.40	0.84
10:AN:139:TRP:CZ3	10:AN:140:LYS:C	2.55	0.84
16:AA:21:ALA:HB1	16:AA:173:LEU:CD1	2.05	0.84
18:AY:54:VAL:CG1	18:AY:76:TYR:N	2.40	0.84
21:Ab:36:LYS:CE	21:Ab:43:ILE:HD11	2.07	0.84
23:AD:126:ILE:HD12	23:AD:134:CYS:CB	2.08	0.84
27:AE:100:ARG:CD	27:AE:102:ILE:HD11	2.08	0.84
28:AC:157:LEU:O	28:AC:160:LEU:CD2	2.26	0.84
29:AG:68:LEU:O	29:AG:69:THR:OG1	1.95	0.84
31:AH:29:GLU:OE2	31:AH:86:LYS:HE3	1.77	0.84
39:Cq:127:ASN:OD1	40:CK:2:PRO:HB2	1.77	0.84
40:CK:62:LEU:CG	40:CK:73:VAL:HB	2.06	0.84
41:CO:38:CYS:SG	41:CO:104:VAL:CG1	2.65	0.84
42:CL:64:VAL:HG11	45:Ca:127:LYS:HZ1	1.41	0.84
44:CM:7:VAL:H	52:CS:152:PHE:H	1.19	0.84
47:CI:91:LEU:CD1	47:CI:135:ILE:HA	2.08	0.84
53:CT:29:THR:C	53:CT:30:TYR:CD2	2.56	0.84
54:CP:118:GLN:HG3	54:CP:120:ASN:OD1	1.78	0.84
56:CX:52:LEU:HD13	56:CX:53:ARG:N	1.92	0.84
56:CX:131:ASP:O	56:CX:133:GLU:OE1	1.94	0.84
57:CY:126:ARG:HH22	57:CY:130:LYS:CD	1.90	0.84
61:Ch:4:ILE:C	61:Ch:5:LYS:HG2	2.02	0.84
67:Ce:5:ARG:CZ	67:Ce:93:LYS:NZ	2.38	0.84
67:Ce:44:ARG:CD	67:Ce:52:GLN:HE22	1.72	0.84
71:Cj:66:HIS:O	71:Cj:69:ILE:HG12	1.77	0.84
74:CC:143:ARG:CZ	74:CC:182:LYS:CD	2.56	0.84
74:CC:219:LYS:HZ3	74:CC:222:ARG:HH22	1.26	0.84
78:Co:33:LEU:O	78:Co:34:TYR:CD2	2.30	0.84
78:Co:85:ILE:CG2	78:Co:86:LYS:N	2.40	0.84
80:CH:109:GLY:CA	80:CH:128:MET:HB3	1.74	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:160:LYS:HE2	81:CE:184:VAL:HG23	1.60	0.84
81:CE:208:ILE:N	81:CE:209:PRO:CD	2.40	0.84
81:CE:224:LYS:CG	81:CE:226:ARG:NH1	2.38	0.84
82:CG:261:LEU:O	82:CG:262:ALA:C	2.18	0.84
1:Az:10:ARG:HD2	1:Az:13:MET:SD	2.18	0.84
1:Az:775:GLN:HG2	1:Az:782:PHE:CE2	2.13	0.84
4:AK:97:SER:OG	4:AK:98:ARG:N	2.10	0.84
5:AO:95:ILE:CD1	5:AO:116:LEU:CD2	2.54	0.84
9:Ad:36:LEU:HG	23:AD:16:ILE:HD11	1.58	0.84
11:AL:71:ARG:CD	11:AL:73:LEU:CD2	2.41	0.84
12:AR:5:ARG:N	12:AR:10:LYS:HZ1	1.75	0.84
12:AR:85:VAL:HG21	16:AA:201:LEU:HB2	0.85	0.84
17:AV:55:ILE:CD1	17:AV:65:SER:HA	2.08	0.84
18:AY:36:PRO:CG	18:AY:39:GLU:OE1	2.23	0.84
23:AD:18:LYS:HZ2	23:AD:37:VAL:CG2	1.90	0.84
30:AF:167:LYS:HD3	30:AF:171:GLU:HB3	1.57	0.84
31:AH:147:LYS:CE	31:AH:153:LEU:HD12	2.08	0.84
33:AI:154:LYS:HE2	33:AI:154:LYS:HA	1.58	0.84
34:AQ:34:VAL:CG2	34:AQ:39:LEU:HD21	2.06	0.84
42:CL:126:LEU:N	42:CL:138:ASP:OD2	2.10	0.84
43:CV:41:SER:OG	43:CV:62:MET:HB2	1.76	0.84
47:CI:185:VAL:HG21	47:CI:190:LEU:HD12	1.50	0.84
47:CI:191:ILE:CG2	47:CI:192:PRO:CD	2.56	0.84
50:CR:99:MET:HE1	50:CR:128:LYS:N	1.93	0.84
53:CT:29:THR:OG1	53:CT:30:TYR:CE2	2.30	0.84
58:CW:14:TYR:OH	63:CB:380:GLN:HG3	1.78	0.84
58:CW:86:SER:HG	58:CW:89:ASP:HB2	1.03	0.84
59:CZ:36:ARG:NE	59:CZ:74:VAL:HG11	1.92	0.84
67:Ce:27:ARG:HG2	67:Ce:28:TYR:CE2	2.12	0.84
74:CC:154:VAL:CG2	74:CC:174:LEU:HD13	2.07	0.84
74:CC:174:LEU:O	74:CC:175:LYS:CB	2.26	0.84
79:CJ:110:GLN:C	79:CJ:111:GLU:HG2	2.00	0.84
80:CH:110:SER:CB	80:CH:128:MET:HB2	2.08	0.84
80:CH:120:GLU:HG3	80:CH:124:ARG:HH22	1.41	0.84
81:CE:228:GLN:C	81:CE:230:GLY:H	1.84	0.84
82:CG:191:GLY:HA2	82:CG:199:CYS:HG	0.83	0.84
1:Az:205:ILE:HG13	1:Az:211:THR:HB	1.60	0.83
2:Ag:46:THR:OG1	2:Ag:48:ASP:CB	2.26	0.83
2:Ag:175:LYS:CD	2:Ag:177:TRP:CZ2	2.61	0.83
8:AS:94:LYS:CD	8:AS:96:SER:OG	2.24	0.83
9:Ad:27:ARG:CB	9:Ad:27:ARG:NH1	2.38	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:180:ARG:HH11	16:AA:184:ARG:CZ	1.90	0.83
18:AY:50:THR:HG21	18:AY:75:ILE:HG21	1.60	0.83
23:AD:21:LEU:O	23:AD:25:LEU:HD23	1.76	0.83
23:AD:35:SER:OG	23:AD:97:CYS:SG	2.34	0.83
23:AD:56:GLN:O	23:AD:59:LEU:CG	2.25	0.83
23:AD:158:ILE:HD11	23:AD:189:MET:SD	2.18	0.83
27:AE:191:ARG:CZ	27:AE:245:ARG:HD3	2.07	0.83
28:AC:113:GLN:CB	28:AC:121:ARG:O	2.27	0.83
28:AC:135:GLY:HA2	28:AC:165:VAL:CG2	2.07	0.83
34:AQ:42:ILE:HD13	34:AQ:51:LEU:HD21	0.85	0.83
39:Cq:63:LYS:HZ2	39:Cq:78:LEU:HB3	1.41	0.83
44:CM:33:GLN:OE1	80:CH:61:TRP:NE1	2.11	0.83
47:CI:213:HIS:O	47:CI:213:HIS:CD2	2.30	0.83
51:CA:83:HIS:CD2	51:CA:86:GLN:OE1	2.31	0.83
51:CA:242:ARG:HH22	51:CA:247:ARG:HH22	1.26	0.83
53:CT:143:THR:O	53:CT:146:LYS:O	1.96	0.83
59:CZ:47:ASP:OD2	59:CZ:69:LYS:CG	2.26	0.83
63:CB:92:TYR:HB3	63:CB:99:LEU:HD21	1.59	0.83
74:CC:130:ALA:CB	74:CC:246:VAL:HG11	2.08	0.83
74:CC:210:ILE:HD13	74:CC:252:TRP:CZ3	2.13	0.83
75:Cm:127:VAL:HG22	75:Cm:128:LYS:O	1.76	0.83
77:Cp:47:MET:SD	77:Cp:56:HIS:O	2.36	0.83
81:CE:113:PRO:HD2	81:CE:114:ARG:N	1.93	0.83
83:Cs:21:VAL:HG13	83:Cs:27:LYS:HZ3	1.42	0.83
83:Cs:41:PRO:HD2	83:Cs:42:PHE:N	1.90	0.83
1:Az:827:ASN:C	1:Az:827:ASN:ND2	2.29	0.83
4:AK:84:HIS:ND1	4:AK:85:LEU:N	2.25	0.83
5:AO:128:ARG:HH22	15:AB:72:ALA:HB3	1.42	0.83
6:AX:95:GLU:HG3	6:AX:140:ARG:HH22	1.41	0.83
6:AX:105:PHE:CG	6:AX:112:VAL:CG2	2.62	0.83
7:AM:52:GLN:HG3	7:AM:53:ALA:H	1.43	0.83
7:AM:92:CYS:HB2	7:AM:101:ARG:HG3	1.60	0.83
9:Ad:10:HIS:CD2	9:Ad:11:PRO:HD2	2.13	0.83
13:AP:39:ALA:HA	13:AP:42:ARG:HE	1.43	0.83
15:AB:130:THR:HG21	15:AB:179:ASN:H	1.43	0.83
23:AD:212:GLU:HB2	23:AD:213:PRO:CD	2.07	0.83
25:Af:144:CYS:CB	25:Af:147:THR:CG2	2.39	0.83
28:AC:275:LYS:CD	28:AC:276:THR:N	2.41	0.83
29:AG:52:ILE:HA	29:AG:111:LEU:HD23	1.60	0.83
30:AF:41:VAL:HG22	30:AF:42:LYS:H	0.72	0.83
34:AQ:8:GLN:HB3	34:AQ:99:TYR:CZ	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:34:VAL:HG23	34:AQ:39:LEU:HD21	1.60	0.83
34:AQ:113:ILE:HG13	34:AQ:120:LEU:HD11	1.60	0.83
36:B2:841:G:H2'	36:B2:842:C:H5'	1.59	0.83
41:CO:9:LEU:HD22	52:CS:167:PHE:HD1	1.37	0.83
43:CV:36:ASN:ND2	43:CV:67:LYS:CG	2.41	0.83
46:CN:99:GLN:CG	46:CN:130:PHE:CZ	2.51	0.83
46:CN:116:LEU:HD22	46:CN:135:ILE:HD12	1.60	0.83
51:CA:6:ARG:HH22	51:CA:198:ARG:CG	1.91	0.83
51:CA:174:ARG:C	77:Cp:69:TRP:CH2	2.56	0.83
52:CS:23:HIS:CD2	52:CS:23:HIS:H	1.91	0.83
54:CP:18:ARG:HG3	85:A5:399:G:C5'	2.07	0.83
58:CW:57:ARG:HG2	58:CW:57:ARG:NH1	1.88	0.83
60:Cr:55:ALA:N	60:Cr:56:ASP:HA	1.92	0.83
61:Ch:73:TYR:CE1	61:Ch:79:LYS:HA	2.13	0.83
63:CB:18:PRO:C	63:CB:20:LYS:H	1.85	0.83
63:CB:168:MET:CE	63:CB:171:LEU:HB2	2.07	0.83
63:CB:297:LYS:C	63:CB:300:LYS:HE3	2.01	0.83
67:Ce:5:ARG:NH2	67:Ce:93:LYS:HZ1	1.70	0.83
74:CC:44:LEU:O	74:CC:46:LYS:N	2.11	0.83
81:CE:197:THR:HG22	81:CE:199:THR:H	1.42	0.83
82:CG:22:GLN:O	82:CG:23:GLU:C	2.19	0.83
82:CG:96:LEU:CD1	82:CG:189:ARG:HH22	1.90	0.83
1:Az:3:ASN:O	1:Az:46:ILE:HA	1.78	0.83
1:Az:420:LEU:HD23	1:Az:420:LEU:O	1.75	0.83
2:Ag:143:GLN:NE2	2:Ag:144:ASP:HA	1.92	0.83
4:AK:17:LYS:HE3	35:Ah:287:GLU:CD	2.03	0.83
8:AS:61:GLU:C	8:AS:64:VAL:HG22	2.02	0.83
12:AR:84:TYR:O	16:AA:201:LEU:HD13	1.77	0.83
12:AR:99:ASP:CB	12:AR:119:VAL:CG1	2.57	0.83
12:AR:111:PHE:CE1	16:AA:12:GLU:HA	2.14	0.83
16:AA:164:ASN:O	16:AA:166:LYS:N	2.10	0.83
17:AV:19:ALA:HB3	17:AV:59:ILE:HD13	1.59	0.83
17:AV:29:HIS:CE1	28:AC:85:SER:C	2.57	0.83
17:AV:40:ASP:HB2	17:AV:47:ASN:ND2	1.94	0.83
17:AV:64:GLU:OE2	21:Ab:3:LEU:CD2	2.26	0.83
24:Ae:28:LYS:CG	24:Ae:33:LYS:CB	2.56	0.83
29:AG:181:THR:OG1	29:AG:182:PRO:CD	2.25	0.83
30:AF:19:LEU:HD22	30:AF:24:SER:HA	1.60	0.83
35:Ah:151:PHE:CD2	35:Ah:152:SER:O	2.29	0.83
46:CN:28:TRP:CE3	82:CG:67:ARG:NE	2.45	0.83
47:CI:90:ARG:O	47:CI:91:LEU:HG	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:51:MET:CE	48:CD:173:ILE:HD13	1.92	0.83
56:CX:117:TYR:HB3	56:CX:119:ILE:HG21	1.55	0.83
66:Cd:57:MET:CG	66:Cd:90:ARG:NH1	2.40	0.83
74:CC:128:LEU:HD21	74:CC:235:LEU:CD1	2.07	0.83
81:CE:71:ARG:O	81:CE:72:LYS:HG2	1.79	0.83
83:Cs:44:PRO:HD2	83:Cs:45:GLY:N	1.89	0.83
83:Ct:44:PRO:CD	83:Ct:45:GLY:H	1.88	0.83
1:Az:240:GLY:O	1:Az:243:GLN:CD	2.22	0.83
2:Ag:150:TRP:HB2	2:Ag:170:TRP:CD1	2.13	0.83
5:AO:16:SER:HA	5:AO:87:GLU:O	1.77	0.83
6:AX:22:TRP:O	6:AX:23:HIS:C	2.12	0.83
8:AS:8:LYS:O	19:AZ:49:LEU:HD23	1.76	0.83
12:AR:91:LEU:CD1	12:AR:92:ASP:CA	2.53	0.83
26:AJ:15:THR:CB	26:AJ:44:TRP:CZ3	2.62	0.83
29:AG:63:MET:HE3	29:AG:106:LEU:CD2	2.08	0.83
31:AH:100:ILE:HG12	31:AH:125:VAL:HG21	1.58	0.83
33:AI:70:GLU:OE2	33:AI:117:TYR:OH	1.95	0.83
33:AI:103:LEU:HD23	33:AI:172:LEU:HD13	1.59	0.83
34:AQ:72:VAL:CG2	34:AQ:84:ILE:CG2	2.56	0.83
38:Cz:136:SER:O	38:Cz:139:THR:HG22	1.77	0.83
40:CK:123:ARG:HB2	40:CK:128:THR:CB	2.07	0.83
50:CR:179:ALA:O	50:CR:183:GLU:CD	2.21	0.83
51:CA:253:GLN:HB3	51:CA:254:GLU:CA	2.08	0.83
57:CY:34:LEU:HD12	57:CY:38:LEU:HD12	1.60	0.83
64:CF:66:ARG:HG2	64:CF:66:ARG:NH1	1.89	0.83
66:Cd:23:ARG:CD	66:Cd:88:LEU:HD11	2.06	0.83
67:Ce:9:LYS:HD3	67:Ce:69:MET:HE2	1.60	0.83
68:Cf:9:ALA:CB	68:Cf:28:LEU:HD11	2.08	0.83
81:CE:73:TYR:C	81:CE:74:SER:CB	2.51	0.83
82:CG:75:LYS:HZ2	82:CG:240:ASN:HD22	0.85	0.83
84:Cu:49:LYS:HE3	84:Cu:49:LYS:HA	1.57	0.83
1:Az:623:SER:HB3	1:Az:626:GLN:HG2	1.60	0.83
1:Az:745:TYR:CE1	1:Az:746:LEU:HB3	2.12	0.83
1:Az:777:ALA:C	1:Az:779:THR:N	2.30	0.83
3:AU:33:GLU:OE2	36:B2:1447:G:O2'	1.95	0.83
4:AK:14:LEU:CD2	4:AK:35:LEU:HD21	1.96	0.83
5:AO:72:TYR:CB	30:AF:135:ARG:HH21	1.91	0.83
6:AX:27:TYR:CE1	6:AX:31:HIS:CE1	2.67	0.83
8:AS:55:ARG:HG3	19:AZ:48:VAL:HG11	1.60	0.83
11:AL:97:ARG:O	11:AL:99:TYR:CA	2.26	0.83
13:AP:14:LYS:O	13:AP:22:LEU:HD23	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:97:TYR:HB2	13:AP:102:PHE:CE1	2.13	0.83
14:AT:63:HIS:O	14:AT:67:ARG:CD	2.25	0.83
16:AA:23:THR:O	16:AA:25:LEU:N	2.11	0.83
21:Ab:12:PRO:CD	21:Ab:13:GLU:H	1.91	0.83
29:AG:32:MET:HE1	29:AG:100:CYS:C	2.02	0.83
34:AQ:58:LEU:HD22	34:AQ:111:ILE:CD1	2.09	0.83
38:Cz:143:ASN:CA	38:Cz:146:ALA:HB3	2.07	0.83
40:CK:1:MET:SD	40:CK:1:MET:N	2.48	0.83
46:CN:44:ARG:HB3	46:CN:44:ARG:NH1	1.93	0.83
47:CI:16:PRO:CG	47:CI:128:ARG:NH1	2.41	0.83
52:CS:7:LEU:CD2	52:CS:107:THR:OG1	2.26	0.83
53:CT:30:TYR:CZ	53:CT:94:GLU:HG3	2.12	0.83
54:CP:41:ILE:HD12	54:CP:112:LEU:HB3	0.85	0.83
55:CU:40:GLU:CG	55:CU:70:ILE:HG12	2.07	0.83
57:CY:91:ASN:O	57:CY:93:THR:N	2.10	0.83
60:Cr:16:PHE:CD2	60:Cr:28:GLU:CG	2.62	0.83
60:Cr:71:ARG:NH1	60:Cr:71:ARG:CA	2.40	0.83
63:CB:116:ARG:CD	63:CB:122:TRP:CG	2.58	0.83
66:Cd:39:LYS:NZ	66:Cd:78:ARG:CZ	2.40	0.83
81:CE:208:ILE:H	81:CE:209:PRO:CD	1.90	0.83
1:Az:114:GLU:CD	1:Az:532:PRO:CD	2.51	0.83
1:Az:829:SER:CB	1:Az:832:SER:H	1.91	0.83
10:AN:55:ARG:NH2	21:Ab:51:GLN:OE1	2.12	0.83
11:AL:82:MET:HE2	11:AL:85:THR:HG21	1.58	0.83
16:AA:34:MET:HE1	16:AA:37:TYR:HE2	1.42	0.83
18:AY:22:GLN:HB3	18:AY:74:MET:CE	2.09	0.83
26:AJ:35:TYR:C	26:AJ:37:LEU:H	1.85	0.83
28:AC:207:ALA:O	28:AC:210:PRO:HD2	1.79	0.83
31:AH:31:GLU:CD	31:AH:41:ARG:HD2	2.02	0.83
41:CO:188:LYS:NZ	41:CO:189:ILE:H	1.75	0.83
44:CM:66:HIS:O	44:CM:66:HIS:CG	2.30	0.83
47:CI:76:MET:HE1	47:CI:148:VAL:HA	0.87	0.83
47:CI:92:HIS:CD2	47:CI:94:PHE:HZ	1.97	0.83
51:CA:118:GLU:HB3	51:CA:125:LYS:NZ	1.94	0.83
53:CT:135:PRO:HB2	64:CF:86:GLU:HB2	1.57	0.83
53:CT:143:THR:O	53:CT:146:LYS:CB	2.27	0.83
56:CX:60:TYR:HE2	61:Ch:84:ARG:HH22	1.22	0.83
62:Cb:69:ALA:O	62:Cb:72:ILE:CG2	2.22	0.83
66:Cd:29:ILE:HD11	66:Cd:84:ILE:HD12	1.60	0.83
67:Ce:35:TRP:CD1	67:Ce:56:PRO:HG3	2.13	0.83
74:CC:44:LEU:C	74:CC:46:LYS:H	1.82	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:29:ILE:CG2	77:Cp:69:TRP:CG	2.61	0.83
77:Cp:50:ARG:HD3	77:Cp:50:ARG:O	1.78	0.83
77:Cp:50:ARG:NE	77:Cp:54:ILE:HD11	1.88	0.83
77:Cp:52:VAL:HG13	77:Cp:68:ALA:CA	2.07	0.83
81:CE:113:PRO:CD	81:CE:114:ARG:H	1.92	0.83
83:Cs:21:VAL:HG13	83:Cs:27:LYS:CD	2.09	0.83
1:Az:48:SER:OG	1:Az:49:ALA:N	2.02	0.83
1:Az:208:VAL:HA	1:Az:225:LEU:HD22	1.59	0.83
3:AU:18:HIS:CE1	3:AU:98:VAL:CG2	2.60	0.83
8:AS:34:LYS:CB	8:AS:103:LEU:CD2	2.01	0.83
12:AR:110:ASP:O	12:AR:111:PHE:HD2	1.62	0.83
13:AP:44:ARG:NH2	13:AP:84:ILE:HB	1.93	0.83
25:Af:146:LEU:HD12	25:Af:147:THR:HA	1.60	0.83
28:AC:70:VAL:CB	28:AC:97:PHE:HE2	1.91	0.83
28:AC:135:GLY:HA2	28:AC:165:VAL:HG22	1.60	0.83
28:AC:171:GLY:HA2	32:AW:98:GLN:HE22	1.43	0.83
29:AG:27:PHE:HZ	29:AG:41:LEU:CD1	1.92	0.83
30:AF:63:LYS:HD3	30:AF:71:ARG:HH22	1.42	0.83
34:AQ:44:PRO:O	34:AQ:45:ARG:HG2	1.79	0.83
39:Cq:211:LEU:HD11	83:Cs:50:ALA:HB2	1.60	0.83
46:CN:46:ASP:HB2	46:CN:50:ARG:NH1	1.94	0.83
48:CD:164:LYS:HE3	48:CD:168:ASP:CG	2.02	0.83
50:CR:100:ARG:O	50:CR:104:ARG:CD	2.27	0.83
50:CR:133:LYS:HD3	50:CR:137:ILE:HB	1.58	0.83
50:CR:133:LYS:HG2	50:CR:137:ILE:HD13	1.60	0.83
53:CT:157:GLU:O	53:CT:158:PHE:HB3	1.78	0.83
56:CX:89:LYS:CE	56:CX:97:VAL:CG2	2.55	0.83
61:Ch:86:LYS:N	61:Ch:86:LYS:CD	2.42	0.83
63:CB:47:LEU:HD11	63:CB:344:VAL:HG11	1.58	0.83
63:CB:246:ARG:HD2	85:A5:4524:G:OP2	1.79	0.83
64:CF:154:ILE:CG2	64:CF:187:MET:SD	2.67	0.83
74:CC:144:ILE:HD11	74:CC:249:PHE:CB	2.08	0.83
1:Az:275:LYS:HE2	1:Az:276:SER:CA	2.09	0.83
1:Az:402:VAL:HG23	1:Az:403:PRO:CD	1.97	0.83
1:Az:722:ILE:HB	1:Az:723:PRO:HD3	1.60	0.83
2:Ag:170:TRP:O	2:Ag:172:LYS:N	2.11	0.83
3:AU:46:LYS:HZ1	3:AU:97:ILE:HG12	1.42	0.83
4:AK:84:HIS:HD2	7:AM:27:ILE:HG13	1.43	0.83
5:AO:54:CYS:SG	5:AO:84:ARG:HB2	2.17	0.83
7:AM:13:ASP:O	7:AM:16:THR:HG22	0.96	0.83
8:AS:26:ILE:HG22	8:AS:45:LEU:HD11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:124:ARG:HG2	13:AP:123:TYR:OH	1.78	0.83
11:AL:125:ILE:O	11:AL:146:THR:HG22	1.79	0.83
11:AL:147:LYS:HG3	11:AL:148:ALA:N	1.91	0.83
15:AB:57:ILE:O	15:AB:58:ALA:C	2.21	0.83
24:Ae:28:LYS:HG2	24:Ae:33:LYS:HB2	1.59	0.83
27:AE:43:PRO:CG	27:AE:46:ILE:HD12	2.09	0.83
28:AC:137:VAL:HG13	28:AC:217:ALA:HA	1.61	0.83
29:AG:64:LYS:CG	29:AG:67:VAL:CG1	2.55	0.83
31:AH:6:ALA:HB1	31:AH:10:LYS:HZ3	1.42	0.83
31:AH:40:LEU:HD21	31:AH:43:LEU:HD12	0.84	0.83
44:CM:77:TRP:CD1	44:CM:82:ILE:HG21	2.13	0.83
45:Ca:92:LYS:HA	45:Ca:93:ASN:HB2	1.58	0.83
48:CD:110:LEU:CG	48:CD:115:MET:O	2.26	0.83
48:CD:118:ILE:HG23	48:CD:135:ILE:HD13	1.58	0.83
49:CQ:32:TYR:CD2	49:CQ:51:LEU:HD11	2.13	0.83
54:CP:30:ARG:CZ	54:CP:62:ARG:NH2	2.41	0.83
56:CX:119:ILE:HD11	56:CX:140:LEU:CG	2.07	0.83
59:CZ:26:VAL:HB	59:CZ:89:ILE:HD11	1.59	0.83
59:CZ:42:LEU:HD21	59:CZ:96:VAL:HG13	1.58	0.83
59:CZ:73:LYS:HG2	59:CZ:75:TYR:CD1	2.11	0.83
67:Ce:50:LYS:HZ1	68:Cf:20:ASN:HD21	1.27	0.83
74:CC:348:LYS:C	74:CC:349:LEU:N	0.73	0.83
79:CJ:22:LEU:HD21	79:CJ:130:PHE:CD1	2.13	0.83
80:CH:129:ARG:HB3	80:CH:130:PRO:HD2	1.58	0.83
82:CG:71:TYR:CE1	82:CG:72:LYS:HG2	2.14	0.83
82:CG:136:LEU:HD21	82:CG:204:PHE:CE2	2.10	0.83
82:CG:166:LEU:O	82:CG:167:VAL:HG23	1.79	0.83
85:A5:118:C:O2	85:A5:153:G:N2	2.12	0.83
85:A5:4751:G:C4	85:A5:4950:U:C5	2.66	0.83
1:Az:150:ARG:C	1:Az:200:MET:HE1	2.04	0.83
1:Az:297:ILE:O	1:Az:300:VAL:CG2	2.27	0.83
2:Ag:48:ASP:O	2:Ag:49:GLU:CG	2.27	0.83
2:Ag:143:GLN:CD	2:Ag:144:ASP:CB	2.52	0.83
3:AU:61:LEU:HD21	9:Ad:34:TYR:CE1	2.13	0.83
4:AK:96:ARG:CG	4:AK:97:SER:H	1.91	0.83
8:AS:58:GLU:O	8:AS:59:LEU:CG	2.25	0.83
13:AP:4:VAL:HG12	13:AP:4:VAL:O	1.76	0.83
13:AP:12:PHE:HZ	79:CJ:88:LYS:CE	1.89	0.83
15:AB:153:THR:O	15:AB:154:SER:OG	1.95	0.83
18:AY:29:HIS:CE1	18:AY:68:LYS:CA	2.62	0.83
27:AE:180:LEU:HD22	27:AE:181:CYS:H	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:63:MET:HE2	29:AG:106:LEU:HD11	1.61	0.83
30:AF:45:TYR:N	30:AF:45:TYR:CD1	2.42	0.83
31:AH:83:LEU:CD2	31:AH:92:VAL:CG1	2.57	0.83
33:AI:206:LYS:CG	33:AI:207:GLY:N	2.42	0.83
35:Ah:150:GLU:C	35:Ah:153:VAL:CG1	2.49	0.83
38:Cz:29:LEU:CD2	38:Cz:173:LYS:HB2	2.09	0.83
39:Cq:26:LYS:O	39:Cq:27:CYS:HB2	1.75	0.83
48:CD:115:MET:HE3	48:CD:139:PRO:HB3	1.58	0.83
51:CA:6:ARG:HH22	51:CA:198:ARG:HG2	1.40	0.83
51:CA:118:GLU:CB	51:CA:125:LYS:NZ	2.39	0.83
51:CA:139:HIS:CE1	51:CA:146:THR:HG23	2.14	0.83
53:CT:14:MET:HE1	53:CT:55:LYS:CB	2.09	0.83
53:CT:126:VAL:HG12	53:CT:127:GLN:H	1.43	0.83
55:CU:63:ILE:CD1	55:CU:72:VAL:CG2	2.52	0.83
57:CY:30:MET:SD	57:CY:73:VAL:HG13	2.19	0.83
63:CB:116:ARG:NH1	63:CB:122:TRP:HB3	1.92	0.83
69:Cg:57:ARG:CG	69:Cg:57:ARG:NH1	2.38	0.83
1:Az:183:GLU:HG3	39:Cq:139:GLN:HE22	1.43	0.83
1:Az:524:LEU:CD1	1:Az:536:CYS:HB2	2.07	0.83
2:Ag:118:ARG:HH22	2:Ag:134:THR:HG21	1.36	0.83
4:AK:26:ASP:OD2	4:AK:29:MET:HG3	1.77	0.83
5:AO:128:ARG:HD3	15:AB:70:SER:HB2	1.60	0.83
8:AS:42:HIS:HD2	14:AT:45:LEU:HD11	1.01	0.83
16:AA:43:SER:O	16:AA:44:ASP:OD1	1.97	0.83
18:AY:18:LEU:HD13	18:AY:20:ARG:HH12	0.66	0.83
22:Ac:50:VAL:CG2	30:AF:142:SER:HB2	2.09	0.83
22:Ac:55:VAL:HB	30:AF:34:SER:HB3	1.57	0.83
33:AI:21:TYR:CD2	33:AI:22:HIS:CD2	2.66	0.83
33:AI:141:ARG:O	33:AI:143:LYS:CE	2.26	0.83
34:AQ:50:LYS:NZ	34:AQ:85:ARG:HH22	1.58	0.83
36:B2:181:A:H4'	36:B2:182:C:H5'	1.59	0.83
39:Cq:221:ASN:CA	84:Cu:55:ILE:HG23	2.09	0.83
39:Cq:277:ALA:C	39:Cq:280:PRO:HD2	2.04	0.83
40:CK:61:LYS:HE2	40:CK:72:GLU:HG3	1.57	0.83
41:CO:27:VAL:HG13	41:CO:98:ALA:O	1.77	0.83
44:CM:12:VAL:CG1	44:CM:60:PHE:C	2.44	0.83
44:CM:77:TRP:CB	44:CM:82:ILE:HD11	2.09	0.83
44:CM:107:PHE:CD1	81:CE:270:TYR:CD2	2.66	0.83
45:Ca:37:GLY:HA2	45:Ca:45:PHE:CE2	2.14	0.83
47:CI:30:LYS:HG2	47:CI:63:GLU:CG	2.08	0.83
48:CD:62:CYS:HB3	48:CD:105:LEU:HD22	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:223:PHE:HB3	86:A7:49:A:OP1	1.79	0.83
56:CX:89:LYS:HZ2	56:CX:97:VAL:HG22	1.44	0.83
56:CX:117:TYR:HB2	56:CX:119:ILE:HG23	1.59	0.83
58:CW:109:ILE:HG22	58:CW:113:LYS:HE3	1.60	0.83
60:Cr:78:VAL:O	60:Cr:81:THR:N	2.10	0.83
65:Cc:74:TYR:CD2	65:Cc:76:GLY:N	2.46	0.83
66:Cd:112:THR:CG2	66:Cd:113:THR:HG23	2.08	0.83
74:CC:154:VAL:CG1	74:CC:158:VAL:HG21	2.08	0.83
74:CC:233:SER:HA	74:CC:263:LEU:HD11	0.84	0.83
77:Cp:87:LYS:HG3	77:Cp:88:GLU:N	1.93	0.83
78:Co:25:GLN:CG	78:Co:91:PHE:CZ	2.60	0.83
84:Cv:7:TYR:CE1	84:Cv:23:ILE:HD13	2.14	0.83
1:Az:829:SER:HB2	1:Az:832:SER:N	1.92	0.82
6:AX:69:CYS:SG	6:AX:84:PHE:HA	2.19	0.82
11:AL:82:MET:HE1	36:B2:373:G:C5'	2.08	0.82
13:AP:53:GLN:HB3	13:AP:56:LEU:HD12	1.61	0.82
21:Ab:33:MET:CE	21:Ab:79:PHE:CD1	2.62	0.82
30:AF:122:ARG:CZ	30:AF:193:LYS:NZ	2.40	0.82
31:AH:145:ARG:HH11	31:AH:155:LYS:NZ	1.77	0.82
34:AQ:138:ARG:HH11	36:B2:1646:C:H5''	1.44	0.82
35:Ah:150:GLU:HA	35:Ah:153:VAL:CG1	2.08	0.82
51:CA:24:LYS:HE3	51:CA:24:LYS:CA	2.02	0.82
51:CA:174:ARG:O	77:Cp:69:TRP:HH2	1.61	0.82
52:CS:140:PRO:CG	52:CS:141:ALA:H	1.92	0.82
52:CS:147:ASP:HA	52:CS:148:SER:CB	2.05	0.82
60:Cr:46:ARG:HE	60:Cr:68:SER:HB2	1.43	0.82
67:Cc:69:MET:CE	67:Cc:75:ARG:NH2	2.41	0.82
75:Cm:94:MET:HE1	75:Cm:123:PRO:CA	2.09	0.82
82:CG:96:LEU:HD11	82:CG:189:ARG:HH22	1.03	0.82
82:CG:190:LEU:HB2	82:CG:199:CYS:HB2	1.58	0.82
84:Cv:7:TYR:CE1	84:Cv:42:VAL:CG1	2.62	0.82
1:Az:206:ASP:CB	1:Az:207:PRO:HD2	2.02	0.82
1:Az:296:PRO:HA	1:Az:299:LYS:CE	2.08	0.82
1:Az:662:LEU:CD2	1:Az:683:PHE:CD1	2.62	0.82
2:Ag:2:THR:HG23	2:Ag:3:GLU:HG2	1.57	0.82
4:AK:28:HIS:CE1	9:Ad:8:TRP:CD1	2.65	0.82
8:AS:34:LYS:HB3	8:AS:103:LEU:HD23	1.53	0.82
12:AR:5:ARG:CA	12:AR:10:LYS:HZ1	1.91	0.82
18:AY:32:LYS:HG3	18:AY:33:ALA:N	1.80	0.82
18:AY:78:SER:CB	18:AY:81:TYR:CE2	2.61	0.82
21:Ab:83:GLN:O	21:Ab:84:HIS:O	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:56:GLN:HA	23:AD:59:LEU:CD2	2.09	0.82
25:Af:103:LEU:O	25:Af:105:TYR:N	2.12	0.82
25:Af:120:GLU:CD	25:Af:128:ALA:O	2.20	0.82
27:AE:86:PHE:CZ	27:AE:182:MET:CE	2.62	0.82
28:AC:227:ARG:CD	28:AC:228:GLY:N	2.41	0.82
28:AC:259:THR:HG22	28:AC:259:THR:O	1.77	0.82
29:AG:84:TYR:HE2	29:AG:86:PRO:HG3	1.43	0.82
32:AW:38:LEU:HD23	32:AW:41:MET:HE1	1.61	0.82
39:Cq:123:VAL:HG11	39:Cq:154:ILE:HD13	1.60	0.82
41:CO:54:TYR:CZ	41:CO:145:VAL:HG11	2.13	0.82
45:Ca:11:LEU:O	45:Ca:14:HIS:HD2	1.61	0.82
48:CD:199:ILE:CG2	48:CD:200:MET:CE	2.57	0.82
49:CQ:33:ARG:HG2	49:CQ:48:LEU:HD11	1.61	0.82
49:CQ:101:CYS:SG	49:CQ:126:LEU:HB2	2.19	0.82
52:CS:164:LYS:HZ2	52:CS:165:PRO:HD3	1.42	0.82
53:CT:118:GLU:HG3	53:CT:122:LYS:HE2	1.61	0.82
54:CP:2:VAL:HG12	54:CP:3:ARG:H	0.70	0.82
57:CY:3:PHE:HZ	74:CC:222:ARG:CD	1.92	0.82
63:CB:214:ASP:OD2	63:CB:362:LYS:HG3	1.77	0.82
64:CF:200:ARG:HD3	64:CF:203:GLU:OE1	1.78	0.82
65:Cc:37:MET:HG2	65:Cc:43:ALA:N	1.93	0.82
68:Cf:5:LEU:HD23	85:A5:4948:C:H42	1.43	0.82
69:Cg:57:ARG:HG2	69:Cg:57:ARG:NH1	1.86	0.82
70:Ci:25:ARG:HG2	70:Ci:28:ARG:NH1	1.93	0.82
74:CC:28:PHE:HD1	74:CC:129:ALA:O	1.62	0.82
75:Cm:94:MET:HE1	75:Cm:123:PRO:HD3	1.59	0.82
83:Cs:9:CYS:SG	83:Cs:47:PHE:CZ	2.72	0.82
83:Cs:17:HIS:CE1	83:Cs:23:VAL:CG2	2.61	0.82
1:Az:155:LEU:HD23	1:Az:156:MET:N	1.94	0.82
2:Ag:55:PRO:HG2	34:AQ:102:GLU:CD	2.04	0.82
2:Ag:119:GLN:HE21	2:Ag:121:VAL:HG23	1.41	0.82
4:AK:2:LEU:O	4:AK:3:MET:HE3	1.79	0.82
7:AM:12:MET:CE	7:AM:120:ALA:HB2	2.09	0.82
8:AS:119:ALA:CA	13:AP:118:GLU:O	2.27	0.82
13:AP:4:VAL:C	13:AP:10:ARG:HD3	2.03	0.82
15:AB:128:LYS:HG3	15:AB:132:GLY:O	1.79	0.82
21:Ab:16:LYS:HD3	21:Ab:16:LYS:N	1.93	0.82
23:AD:135:GLU:HB2	23:AD:153:VAL:HG22	1.61	0.82
26:AJ:177:ASN:O	26:AJ:180:LYS:HG3	1.76	0.82
28:AC:108:LYS:HE3	28:AC:110:MET:HB3	1.60	0.82
29:AG:195:LYS:HE2	36:B2:125:C:HO2'	1.38	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:44:LYS:HE3	30:AF:44:LYS:O	1.80	0.82
30:AF:91:ARG:HH11	30:AF:94:LYS:HB2	1.07	0.82
31:AH:191:GLU:C	31:AH:192:PHE:CD1	2.57	0.82
34:AQ:92:LEU:HD12	34:AQ:96:TYR:CE2	2.13	0.82
35:Ah:151:PHE:HB3	35:Ah:152:SER:O	1.79	0.82
35:Ah:157:ILE:CA	35:Ah:158:ILE:N	2.42	0.82
39:Cq:28:PHE:CE1	39:Cq:192:VAL:CG2	2.62	0.82
39:Cq:271:ASP:HB3	39:Cq:275:PHE:HE2	1.42	0.82
40:CK:38:SER:HB2	40:CK:39:PRO:CD	2.01	0.82
44:CM:63:LYS:C	44:CM:63:LYS:CD	2.50	0.82
46:CN:10:LEU:CD1	70:CI:44:ILE:HD11	2.08	0.82
46:CN:44:ARG:HD2	46:CN:119:TYR:HE1	1.41	0.82
50:CR:45:ILE:HA	50:CR:50:ILE:HG22	1.61	0.82
52:CS:83:ARG:CD	53:CT:156:TYR:N	2.41	0.82
53:CT:142:ARG:C	53:CT:143:THR:HG22	2.02	0.82
57:CY:27:ARG:NH2	57:CY:28:LYS:HE3	1.92	0.82
57:CY:38:LEU:HD12	57:CY:106:ILE:O	1.80	0.82
63:CB:128:LYS:O	63:CB:131:THR:CG2	2.26	0.82
63:CB:189:THR:HG22	63:CB:192:GLU:OE1	1.77	0.82
63:CB:281:ASN:C	63:CB:282:LYS:HD2	2.03	0.82
64:CF:51:TYR:CD1	81:CE:58:SER:HB2	2.13	0.82
69:Cg:7:TYR:CE1	69:Cg:20:THR:CG2	2.62	0.82
69:Cg:42:PRO:O	69:Cg:52:ARG:HA	1.79	0.82
74:CC:193:LYS:CG	74:CC:196:MET:HE3	2.08	0.82
80:CH:92:MET:HE1	80:CH:161:ILE:HG23	1.61	0.82
81:CE:31:ASN:CA	81:CE:32:LEU:HD22	2.09	0.82
85:A5:4943:A:OP2	85:A5:4944:C:C5'	2.26	0.82
87:A8:102:G:OP2	87:A8:104:A:O2'	1.97	0.82
1:Az:108:HIS:CG	1:Az:552:LEU:HD23	2.14	0.82
1:Az:157:MET:CE	1:Az:214:PHE:HE1	1.91	0.82
5:AO:17:LEU:HD23	5:AO:18:GLY:N	1.94	0.82
9:Ad:22:ARG:HH22	23:AD:16:ILE:HD13	1.43	0.82
15:AB:94:LYS:N	15:AB:94:LYS:CD	2.40	0.82
16:AA:32:PHE:HE1	16:AA:33:GLN:HE21	0.84	0.82
16:AA:60:LEU:C	16:AA:60:LEU:HD13	2.04	0.82
16:AA:76:VAL:CG1	16:AA:175:TRP:CH2	2.56	0.82
16:AA:131:HIS:O	16:AA:135:THR:HG23	1.79	0.82
19:AZ:103:HIS:CD2	19:AZ:105:ALA:N	2.45	0.82
23:AD:59:LEU:CD1	23:AD:60:GLY:H	1.87	0.82
23:AD:97:CYS:O	23:AD:98:ALA:C	2.23	0.82
27:AE:126:VAL:CG2	27:AE:129:ILE:HD11	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:40:ALA:H	30:AF:68:ILE:HG23	1.43	0.82
35:Ah:157:ILE:O	35:Ah:157:ILE:HG22	1.80	0.82
38:Cz:24:LYS:HG3	38:Cz:30:GLU:CD	2.04	0.82
39:Cq:80:PRO:CG	39:Cq:81:HIS:HE1	1.81	0.82
39:Cq:127:ASN:CG	40:CK:2:PRO:HB2	2.05	0.82
39:Cq:214:ARG:HB3	83:Cs:10:ILE:HD13	1.59	0.82
42:CL:127:PHE:CE2	42:CL:144:LEU:HB3	2.14	0.82
43:CV:9:SER:OG	43:CV:128:LEU:HD11	1.79	0.82
45:Ca:120:GLN:CD	45:Ca:121:PRO:HD3	2.03	0.82
46:CN:178:HIS:HA	46:CN:181:HIS:CD2	2.15	0.82
49:CQ:154:LYS:HE3	49:CQ:163:THR:HG21	0.84	0.82
56:CX:87:MET:C	56:CX:90:ILE:HD12	2.03	0.82
58:CW:31:PHE:HB3	58:CW:36:CYS:SG	2.19	0.82
63:CB:17:LEU:HD23	63:CB:19:ARG:CD	2.09	0.82
63:CB:139:ASP:O	63:CB:141:ASP:N	2.12	0.82
63:CB:170:LEU:O	63:CB:171:LEU:HD23	1.79	0.82
64:CF:66:ARG:HH11	64:CF:66:ARG:CG	1.90	0.82
74:CC:144:ILE:HD13	74:CC:249:PHE:CD1	2.13	0.82
77:Cp:50:ARG:O	77:Cp:54:ILE:HG21	1.78	0.82
78:Co:13:LYS:HE2	78:Co:81:ARG:HB2	1.61	0.82
81:CE:172:LEU:CD1	85:A5:4940:C:O2'	2.28	0.82
82:CG:243:GLY:C	82:CG:244:PRO:HA	2.03	0.82
83:Cs:22:THR:H	83:Cs:27:LYS:NZ	1.76	0.82
1:Az:693:CYS:HA	1:Az:839:ARG:CG	2.09	0.82
6:AX:126:ALA:C	6:AX:128:VAL:HB	2.04	0.82
7:AM:76:LEU:O	7:AM:128:PHE:CE1	2.32	0.82
8:AS:39:ARG:CD	14:AT:38:LYS:HE3	2.05	0.82
11:AL:40:ILE:HD11	11:AL:68:ILE:CB	2.09	0.82
13:AP:10:ARG:CZ	13:AP:11:THR:HB	2.09	0.82
13:AP:14:LYS:O	13:AP:22:LEU:CD2	2.28	0.82
14:AT:87:VAL:HG13	14:AT:88:MET:HG3	1.61	0.82
15:AB:55:THR:O	15:AB:56:LYS:CD	2.26	0.82
15:AB:136:ARG:HG2	15:AB:138:PHE:HE2	1.43	0.82
25:Af:103:LEU:HD23	25:Af:105:TYR:N	1.94	0.82
26:AJ:100:LEU:HG	26:AJ:101:LYS:H	1.44	0.82
26:AJ:138:ARG:O	26:AJ:138:ARG:HG2	1.77	0.82
30:AF:179:ASN:O	30:AF:182:LYS:O	1.97	0.82
34:AQ:58:LEU:HD11	34:AQ:108:ILE:HG23	1.60	0.82
38:Cz:49:PHE:HE2	38:Cz:190:LEU:HD22	1.44	0.82
46:CN:180:PHE:CA	46:CN:184:ILE:HD12	2.09	0.82
48:CD:76:CYS:SG	48:CD:109:LEU:HD12	2.17	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:19:LYS:O	49:CQ:19:LYS:CE	2.28	0.82
49:CQ:76:GLU:O	49:CQ:78:LYS:HE3	1.77	0.82
50:CR:44:LEU:HD22	50:CR:49:LEU:CB	2.09	0.82
51:CA:32:VAL:HG21	51:CA:163:ARG:HH12	1.39	0.82
53:CT:65:TYR:CD1	53:CT:65:TYR:O	2.32	0.82
57:CY:44:VAL:HG11	57:CY:122:LYS:CD	2.09	0.82
57:CY:62:TYR:CE1	57:CY:85:VAL:HG13	2.14	0.82
60:Cr:132:ARG:HH21	60:Cr:132:ARG:HB3	1.44	0.82
63:CB:41:VAL:N	63:CB:187:GLY:HA3	1.94	0.82
65:Cc:20:LEU:HD21	65:Cc:101:ASP:HB3	1.60	0.82
66:Cd:60:PRO:CB	66:Cd:100:ASN:ND2	2.41	0.82
66:Cd:122:VAL:HG12	66:Cd:123:ASP:H	1.32	0.82
67:Ce:15:LYS:O	67:Ce:16:ARG:HB2	1.78	0.82
78:Co:65:LYS:HB3	78:Co:66:ILE:HD11	1.59	0.82
80:CH:105:ILE:HD13	80:CH:105:ILE:N	1.94	0.82
80:CH:158:ALA:O	80:CH:161:ILE:CG2	2.26	0.82
81:CE:239:LYS:CD	85:A5:4939:C:C5	2.62	0.82
1:Az:693:CYS:HB3	1:Az:835:VAL:CG1	2.09	0.82
1:Az:824:PRO:O	1:Az:832:SER:CB	2.27	0.82
3:AU:97:ILE:CG2	3:AU:101:ILE:CD1	2.58	0.82
12:AR:103:LYS:O	12:AR:107:LYS:HG3	1.80	0.82
13:AP:75:VAL:HG21	13:AP:104:GLN:CD	2.04	0.82
14:AT:11:GLN:HE21	14:AT:62:ARG:CZ	1.90	0.82
15:AB:38:MET:CE	15:AB:186:ASN:HD21	1.75	0.82
16:AA:32:PHE:CE1	16:AA:33:GLN:CG	2.61	0.82
18:AY:17:LEU:HD12	18:AY:18:LEU:HG	1.61	0.82
23:AD:193:ASP:OD1	23:AD:203:PRO:CA	2.28	0.82
26:AJ:114:VAL:CG1	26:AJ:119:LEU:O	2.27	0.82
31:AH:23:ILE:CD1	31:AH:27:LEU:HD21	2.10	0.82
38:Cz:29:LEU:CD1	38:Cz:171:HIS:HB3	2.10	0.82
39:Cq:63:LYS:HE3	39:Cq:82:ILE:HD11	1.60	0.82
48:CD:51:MET:HE1	48:CD:173:ILE:HG12	1.56	0.82
48:CD:152:ARG:NH1	79:CJ:145:LYS:HE2	1.94	0.82
52:CS:23:HIS:HA	52:CS:24:THR:OG1	1.78	0.82
55:CU:21:PHE:HZ	55:CU:80:LYS:HE3	1.43	0.82
58:CW:87:LEU:C	58:CW:91:MET:HE1	2.04	0.82
61:Ch:109:ARG:NH1	61:Ch:109:ARG:CB	2.34	0.82
74:CC:147:VAL:CA	74:CC:175:LYS:HG2	2.05	0.82
82:CG:80:ILE:HG12	82:CG:164:ILE:HD13	1.59	0.82
82:CG:208:ASN:HD21	82:CG:210:GLU:CG	1.89	0.82
1:Az:60:ARG:CG	1:Az:60:ARG:NH1	2.30	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:62:ARG:HH11	3:AU:64:THR:CG2	1.92	0.82
5:AO:52:THR:HG21	36:B2:953:C:C4'	2.08	0.82
6:AX:94:ILE:HD11	6:AX:122:VAL:HG11	1.60	0.82
7:AM:124:ILE:CA	7:AM:127:TYR:CD2	2.62	0.82
14:AT:52:TRP:O	14:AT:55:THR:HG22	1.80	0.82
17:AV:24:ILE:HD13	17:AV:25:GLY:H	1.42	0.82
18:AY:3:ASP:O	18:AY:4:THR:OG1	1.98	0.82
22:Ac:67:ARG:C	22:Ac:68:LEU:CD2	2.50	0.82
23:AD:202:LYS:CB	23:AD:203:PRO:CD	2.57	0.82
26:AJ:45:ARG:O	26:AJ:49:THR:HG23	1.78	0.82
30:AF:71:ARG:NH2	30:AF:71:ARG:HG2	1.89	0.82
34:AQ:44:PRO:CG	34:AQ:81:ILE:HD11	2.06	0.82
39:Cq:28:PHE:HE2	39:Cq:98:ILE:CD1	1.93	0.82
39:Cq:119:CYS:CA	39:Cq:163:THR:CG2	2.48	0.82
40:CK:77:ALA:HB3	40:CK:80:LEU:CD1	2.10	0.82
63:CB:149:ASP:O	63:CB:150:PHE:O	1.96	0.82
74:CC:266:THR:HG23	74:CC:267:TRP:N	1.94	0.82
74:CC:318:PRO:CB	74:CC:325:MET:SD	2.67	0.82
85:A5:1823:G:H3'	85:A5:1824:G:H8	1.41	0.82
1:Az:580:ARG:NH1	1:Az:696:ASN:HB2	1.95	0.82
4:AK:84:HIS:ND1	4:AK:85:LEU:CA	2.42	0.82
12:AR:21:TYR:HB3	12:AR:71:ILE:HG21	1.62	0.82
16:AA:141:ASN:HD21	17:AV:29:HIS:CB	1.92	0.82
18:AY:20:ARG:CD	18:AY:74:MET:HE2	2.08	0.82
18:AY:50:THR:O	18:AY:51:THR:OG1	1.97	0.82
18:AY:93:ARG:HH11	18:AY:93:ARG:CG	1.87	0.82
19:AZ:69:THR:CB	19:AZ:70:PRO:CD	2.58	0.82
19:AZ:91:LEU:HD22	19:AZ:96:LEU:HD12	1.59	0.82
19:AZ:103:HIS:O	19:AZ:106:GLN:N	2.13	0.82
26:AJ:61:LEU:HD22	26:AJ:98:LEU:HD12	1.60	0.82
26:AJ:138:ARG:HB2	26:AJ:156:HIS:HB3	1.61	0.82
30:AF:122:ARG:NH2	30:AF:193:LYS:HZ1	1.77	0.82
36:B2:127:C:N3	36:B2:180:G:H2'	1.94	0.82
39:Cq:221:ASN:CB	84:Cu:55:ILE:CG2	2.58	0.82
41:CO:177:LEU:HB3	44:CM:130:LEU:CD2	2.09	0.82
47:CI:74:LYS:CA	47:CI:74:LYS:HE3	2.09	0.82
47:CI:91:LEU:HD11	47:CI:135:ILE:HG12	1.59	0.82
48:CD:152:ARG:CG	48:CD:152:ARG:HH11	1.91	0.82
55:CU:125:GLU:CD	55:CU:126:ASP:H	1.87	0.82
56:CX:62:ARG:HG2	56:CX:62:ARG:NH1	1.90	0.82
59:CZ:5:MET:C	59:CZ:6:LYS:HD3	2.00	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:81:MET:HE3	69:Cg:95:PHE:CD2	2.15	0.82
60:Cr:26:SER:OG	60:Cr:34:ALA:O	1.98	0.82
63:CB:107:ALA:CA	63:CB:201:LEU:HD23	2.09	0.82
63:CB:149:ASP:O	63:CB:150:PHE:C	2.15	0.82
64:CF:101:VAL:HG13	64:CF:106:ARG:HD2	1.60	0.82
64:CF:108:VAL:HG21	64:CF:135:ILE:HG21	1.60	0.82
66:Cd:21:VAL:HG12	66:Cd:22:THR:H	1.39	0.82
68:Cf:33:VAL:CG1	68:Cf:34:TYR:N	2.40	0.82
78:Co:65:LYS:HG3	78:Co:86:LYS:C	2.04	0.82
83:Cs:17:HIS:CE1	83:Cs:56:ILE:HD12	2.12	0.82
83:Cs:19:ASP:HB2	84:Cu:2:ARG:HD3	1.59	0.82
1:Az:524:LEU:HD11	1:Az:536:CYS:CB	2.09	0.82
1:Az:740:LEU:HD12	1:Az:820:LEU:HD12	1.59	0.82
3:AU:67:LYS:HE2	3:AU:78:ASP:OD2	1.78	0.82
5:AO:128:ARG:NH2	15:AB:72:ALA:HB3	1.95	0.82
13:AP:89:MET:C	13:AP:107:ILE:HD11	2.05	0.82
17:AV:27:LYS:HZ1	28:AC:82:TYR:HE1	0.91	0.82
17:AV:31:SER:C	17:AV:31:SER:HA	2.02	0.82
18:AY:59:GLY:O	18:AY:60:PHE:HB2	1.77	0.82
19:AZ:48:VAL:C	19:AZ:83:LEU:HD12	2.04	0.82
19:AZ:99:LEU:HD13	19:AZ:102:LYS:CD	2.09	0.82
26:AJ:89:GLU:O	26:AJ:92:MET:CB	2.28	0.82
28:AC:259:THR:HG22	28:AC:261:PHE:HD2	1.41	0.82
29:AG:38:ALA:HB1	29:AG:45:TRP:O	1.78	0.82
32:AW:7:LEU:HD11	32:AW:33:VAL:CG1	2.10	0.82
34:AQ:9:SER:CA	34:AQ:26:LYS:HG3	2.10	0.82
46:CN:84:PRO:HD2	46:CN:85:VAL:H	1.43	0.82
47:CI:3:ARG:HG3	47:CI:123:GLN:NE2	1.95	0.82
48:CD:64:ILE:CD1	48:CD:105:LEU:CD1	2.58	0.82
49:CQ:103:LEU:CD2	49:CQ:123:PHE:CD2	2.57	0.82
51:CA:126:LEU:HD13	51:CA:150:LEU:CD2	2.08	0.82
53:CT:125:TRP:CD1	53:CT:126:VAL:CB	2.62	0.82
55:CU:60:VAL:C	55:CU:75:GLU:H	1.88	0.82
58:CW:76:VAL:O	58:CW:77:LYS:CD	2.28	0.82
59:CZ:5:MET:C	59:CZ:6:LYS:HG2	2.03	0.82
59:CZ:105:ALA:HA	59:CZ:108:ARG:CG	2.10	0.82
63:CB:282:LYS:CB	63:CB:333:LEU:HD11	2.09	0.82
65:Cc:81:LEU:HB2	65:Cc:91:VAL:HG23	1.60	0.82
66:Cd:50:ARG:HG3	66:Cd:62:VAL:HB	1.60	0.82
66:Cd:85:ARG:N	66:Cd:114:PHE:CZ	2.48	0.82
69:Cg:84:ALA:HA	69:Cg:87:VAL:CG2	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:118:LEU:CD2	80:CH:177:ASP:CG	2.52	0.82
81:CE:56:ARG:CB	81:CE:65:ARG:HH12	1.84	0.82
82:CG:136:LEU:CD2	82:CG:204:PHE:CD1	2.59	0.82
82:CG:167:VAL:HG13	82:CG:170:LEU:CD1	2.06	0.82
2:Ag:259:TRP:HE3	2:Ag:259:TRP:H	0.84	0.82
6:AX:88:ASP:OD1	24:Ae:10:GLY:HA2	1.80	0.82
7:AM:93:LYS:O	7:AM:94:ILE:CG2	2.26	0.82
10:AN:38:TYR:HE2	10:AN:74:ILE:HG23	1.43	0.82
10:AN:38:TYR:CE2	10:AN:74:ILE:HG23	2.13	0.82
13:AP:46:ASN:C	13:AP:49:LEU:HB2	2.05	0.82
14:AT:39:LEU:HD12	14:AT:99:VAL:HG21	1.60	0.82
16:AA:159:ILE:CG2	16:AA:159:ILE:O	2.27	0.82
18:AY:54:VAL:CG1	18:AY:76:TYR:H	1.92	0.82
27:AE:130:PHE:CB	27:AE:138:HIS:CE1	2.63	0.82
35:Ah:158:ILE:CG2	35:Ah:161:PRO:HG2	2.08	0.82
35:Ah:296:ILE:O	35:Ah:298:ASN:ND2	2.13	0.82
36:B2:1069:U:H4'	51:CA:248:GLY:HA2	1.61	0.82
40:CK:92:ARG:HA	40:CK:95:GLN:CD	2.04	0.82
44:CM:33:GLN:CD	80:CH:61:TRP:CE2	2.58	0.82
49:CQ:55:ARG:HD3	49:CQ:58:ARG:NH2	1.95	0.82
50:CR:133:LYS:HG2	50:CR:137:ILE:CD1	2.09	0.82
53:CT:142:ARG:O	53:CT:143:THR:CG2	2.27	0.82
55:CU:48:LYS:CA	55:CU:52:LYS:O	2.27	0.82
59:CZ:10:VAL:HG11	59:CZ:129:TRP:HZ3	1.41	0.82
64:CF:148:LYS:O	64:CF:152:GLU:HG2	1.80	0.82
65:Cc:52:CYS:CB	65:Cc:92:CYS:SG	2.68	0.82
74:CC:167:ALA:O	74:CC:170:LEU:HG	1.80	0.82
78:Co:103:VAL:HG11	79:CJ:63:ARG:NE	1.93	0.82
80:CH:129:ARG:CB	80:CH:130:PRO:CD	2.53	0.82
1:Az:4:PHE:CD2	1:Az:5:THR:HB	2.15	0.81
1:Az:649:ILE:HD13	1:Az:652:PHE:CE1	2.15	0.81
1:Az:753:GLU:CA	1:Az:782:PHE:CD1	2.62	0.81
1:Az:848:ILE:CG2	1:Az:849:PRO:N	2.41	0.81
3:AU:19:ARG:HA	3:AU:92:HIS:ND1	1.95	0.81
11:AL:22:ARG:CZ	33:AI:157:LYS:CB	2.42	0.81
15:AB:137:LEU:HB2	15:AB:172:MET:CE	2.03	0.81
17:AV:1:MET:HE2	17:AV:10:ASP:HB2	0.87	0.81
22:Ac:47:LYS:HZ1	30:AF:141:VAL:HG11	1.43	0.81
25:Af:103:LEU:HD21	25:Af:105:TYR:O	1.77	0.81
26:AJ:10:ARG:CB	26:AJ:10:ARG:CZ	2.58	0.81
26:AJ:134:HIS:ND1	26:AJ:163:SER:HB3	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:1:MET:HE1	29:AG:106:LEU:O	1.80	0.81
30:AF:42:LYS:CA	30:AF:45:TYR:H	1.91	0.81
30:AF:91:ARG:HD2	34:AQ:46:THR:HG21	1.60	0.81
36:B2:380:G:C8	36:B2:382:C:OP2	2.33	0.81
38:Cz:14:VAL:O	38:Cz:17:VAL:HG12	1.80	0.81
39:Cq:28:PHE:HE2	39:Cq:98:ILE:CB	1.90	0.81
39:Cq:82:ILE:O	39:Cq:83:ARG:CG	2.27	0.81
42:CL:80:GLU:HG3	42:CL:104:ASN:HD21	1.45	0.81
43:CV:89:ARG:CG	43:CV:95:PHE:CZ	2.63	0.81
45:Ca:93:ASN:O	45:Ca:94:LYS:CB	2.27	0.81
48:CD:9:ASN:O	48:CD:13:PHE:HD2	1.63	0.81
50:CR:100:ARG:O	50:CR:104:ARG:HD2	1.80	0.81
52:CS:90:THR:HG21	53:CT:156:TYR:CG	2.10	0.81
53:CT:36:LYS:C	53:CT:36:LYS:CD	2.52	0.81
53:CT:150:LEU:C	53:CT:151:LEU:CA	2.52	0.81
53:CT:157:GLU:O	53:CT:158:PHE:CB	2.25	0.81
63:CB:223:THR:HG23	63:CB:274:TYR:N	1.94	0.81
70:Ci:85:ARG:N	70:Ci:85:ARG:CD	2.43	0.81
74:CC:6:PRO:N	74:CC:24:LEU:HD21	1.95	0.81
79:CJ:53:ALA:HB2	79:CJ:68:ILE:HD12	1.62	0.81
82:CG:71:TYR:CG	82:CG:72:LYS:N	2.47	0.81
87:A8:110:U:O2'	87:A8:111:U:H5'	1.79	0.81
1:Az:27:HIS:CD2	1:Az:28:VAL:CG2	2.63	0.81
1:Az:592:LEU:HD12	1:Az:592:LEU:O	1.80	0.81
2:Ag:10:THR:HB	2:Ag:306:LEU:HD21	1.59	0.81
3:AU:108:PRO:O	3:AU:108:PRO:HG2	1.79	0.81
10:AN:24:THR:HB	21:Ab:84:HIS:NE2	1.94	0.81
11:AL:97:ARG:O	11:AL:98:LYS:C	2.22	0.81
15:AB:94:LYS:N	15:AB:94:LYS:HD2	1.95	0.81
18:AY:99:LYS:O	18:AY:99:LYS:CD	2.28	0.81
18:AY:118:ARG:NE	29:AG:85:ARG:NE	2.28	0.81
23:AD:67:ARG:HH11	23:AD:67:ARG:CG	1.92	0.81
23:AD:148:LYS:HZ2	35:Ah:177:ARG:HD3	1.44	0.81
25:Af:116:ARG:HG3	25:Af:116:ARG:NH1	1.91	0.81
27:AE:19:MET:HE1	36:B2:846:G:H2'	1.59	0.81
27:AE:126:VAL:CG1	27:AE:158:ASP:O	2.25	0.81
34:AQ:39:LEU:O	34:AQ:42:ILE:CD1	2.28	0.81
34:AQ:90:LYS:HD3	34:AQ:120:LEU:HA	1.61	0.81
39:Cq:199:TYR:CD1	39:Cq:204:LEU:CA	2.62	0.81
46:CN:29:GLN:HG2	82:CG:67:ARG:HE	1.45	0.81
47:CI:105:CYS:C	47:CI:108:ALA:CB	2.53	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:271:MET:HE3	48:CD:275:GLN:OE1	1.79	0.81
49:CQ:6:ARG:NH2	64:CF:113:ARG:HA	1.92	0.81
53:CT:148:PRO:CD	53:CT:148:PRO:O	2.28	0.81
60:Cr:6:GLN:HE22	74:CC:133:LEU:CD2	1.93	0.81
61:Ch:67:GLU:OE1	61:Ch:70:ARG:CD	2.29	0.81
62:Cb:77:LYS:HB3	62:Cb:78:PRO:HD3	1.62	0.81
63:CB:282:LYS:CB	63:CB:333:LEU:HD21	2.10	0.81
63:CB:352:LEU:CD2	63:CB:353:VAL:O	2.28	0.81
65:Cc:52:CYS:CA	65:Cc:92:CYS:SG	2.68	0.81
74:CC:303:ARG:CG	74:CC:303:ARG:HH11	1.93	0.81
74:CC:349:LEU:HD11	74:CC:353:LYS:NZ	1.96	0.81
77:Cp:84:ARG:C	77:Cp:84:ARG:CD	2.50	0.81
80:CH:34:LEU:HD21	80:CH:150:ASP:OD2	1.79	0.81
80:CH:43:VAL:HG11	80:CH:73:ILE:CD1	2.09	0.81
83:Ct:41:PRO:CD	83:Ct:42:PHE:H	1.92	0.81
1:Az:13:MET:HE2	1:Az:465:PRO:HD2	1.61	0.81
1:Az:49:ALA:CA	1:Az:55:ARG:HH21	1.92	0.81
1:Az:433:ASN:O	1:Az:434:TYR:C	2.20	0.81
1:Az:611:ASP:OD1	1:Az:612:GLY:N	2.13	0.81
2:Ag:201:SER:CB	2:Ag:202:PRO:CD	2.57	0.81
3:AU:18:HIS:CE1	3:AU:93:SER:O	2.33	0.81
10:AN:80:LEU:C	10:AN:82:PRO:HD3	2.05	0.81
11:AL:82:MET:HE1	36:B2:373:G:C4'	2.08	0.81
11:AL:94:HIS:HB2	11:AL:105:ARG:CD	2.10	0.81
12:AR:91:LEU:HB2	12:AR:92:ASP:CA	2.08	0.81
13:AP:4:VAL:HA	13:AP:10:ARG:CG	2.10	0.81
18:AY:55:ILE:O	18:AY:55:ILE:HG22	1.78	0.81
18:AY:114:MET:HA	18:AY:124:ASN:HD22	1.43	0.81
19:AZ:96:LEU:O	19:AZ:112:ASN:HB3	1.80	0.81
22:Ac:49:PRO:HD3	30:AF:145:ARG:HH11	1.45	0.81
23:AD:70:THR:HG22	23:AD:86:LEU:HB2	1.61	0.81
23:AD:97:CYS:O	23:AD:97:CYS:SG	2.38	0.81
23:AD:112:GLY:O	23:AD:113:LEU:CG	2.28	0.81
23:AD:195:THR:O	23:AD:197:LYS:HA	1.80	0.81
24:Ae:28:LYS:HG2	24:Ae:33:LYS:CB	2.10	0.81
24:Ae:39:ASN:HA	24:Ae:43:VAL:CG2	2.10	0.81
26:AJ:10:ARG:HB3	26:AJ:10:ARG:HH11	1.44	0.81
26:AJ:180:LYS:C	26:AJ:180:LYS:CD	2.50	0.81
33:AI:155:ASN:ND2	33:AI:156:ALA:HA	1.95	0.81
38:Cz:26:ARG:HB3	38:Cz:28:PHE:H	1.45	0.81
39:Cq:61:MET:CG	39:Cq:82:ILE:HG22	2.03	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:264:LYS:HD2	84:Cv:1:MET:SD	2.20	0.81
41:CO:12:ARG:HB3	41:CO:37:ARG:NH1	1.93	0.81
41:CO:57:PHE:CE1	41:CO:82:ARG:NH2	2.49	0.81
42:CL:127:PHE:CE2	42:CL:144:LEU:HB2	2.07	0.81
42:CL:167:ARG:HH21	42:CL:170:THR:HG21	1.02	0.81
45:Ca:48:TYR:H	49:CQ:156:PRO:HG2	1.38	0.81
46:CN:7:ILE:HB	46:CN:46:ASP:CG	2.02	0.81
46:CN:67:ARG:O	46:CN:126:THR:O	1.97	0.81
47:CI:109:ASP:O	47:CI:110:ARG:CG	2.29	0.81
50:CR:68:LEU:HA	50:CR:71:ARG:HD2	1.60	0.81
50:CR:75:HIS:O	50:CR:76:MET:SD	2.38	0.81
53:CT:5:LYS:H	53:CT:9:ARG:NE	1.78	0.81
56:CX:73:HIS:HB2	56:CX:116:LEU:HD21	1.61	0.81
58:CW:63:GLN:OE1	58:CW:67:ILE:CD1	2.29	0.81
59:CZ:17:ARG:HA	69:Cg:76:ARG:HA	1.60	0.81
60:Cr:14:SER:OG	60:Cr:17:LEU:HB3	1.78	0.81
63:CB:159:VAL:CG1	63:CB:184:GLN:CD	2.53	0.81
63:CB:173:LEU:CD1	63:CB:342:LYS:HG2	2.10	0.81
63:CB:327:THR:HG23	63:CB:328:ASN:ND2	1.95	0.81
66:Cd:42:ALA:CB	66:Cd:73:TRP:CZ2	2.57	0.81
68:Cf:32:GLY:C	68:Cf:34:TYR:CD1	2.58	0.81
69:Cg:38:VAL:CG1	69:Cg:39:GLY:N	2.43	0.81
72:Ck:24:LYS:HE2	72:Ck:67:LYS:HD3	1.61	0.81
72:Ck:31:ASN:HD22	72:Ck:31:ASN:H	1.28	0.81
72:Ck:69:LEU:HD22	72:Ck:69:LEU:C	2.03	0.81
74:CC:28:PHE:CE1	74:CC:128:LEU:O	2.33	0.81
74:CC:142:HIS:HE1	74:CC:248:ARG:HA	1.46	0.81
74:CC:148:PRO:CG	74:CC:152:LEU:CD1	2.25	0.81
80:CH:50:LYS:H	80:CH:50:LYS:CD	1.91	0.81
80:CH:94:SER:OG	80:CH:142:ASP:CB	2.27	0.81
81:CE:242:ILE:HG12	81:CE:246:ARG:HD2	1.62	0.81
81:CE:242:ILE:CG1	81:CE:246:ARG:HD2	2.10	0.81
85:A5:1174:G:H22	85:A5:1187:G:H21	1.26	0.81
1:Az:567:CYS:C	1:Az:568:ILE:HD12	2.06	0.81
2:Ag:17:TRP:CE3	2:Ag:36:ARG:CZ	2.63	0.81
2:Ag:275:ILE:O	2:Ag:276:SER:CB	2.28	0.81
7:AM:52:GLN:HG3	7:AM:53:ALA:N	1.95	0.81
8:AS:8:LYS:CE	8:AS:9:PHE:CE1	2.63	0.81
12:AR:20:TYR:OH	12:AR:38:ILE:HB	1.74	0.81
13:AP:49:LEU:C	13:AP:50:ARG:HG3	2.06	0.81
19:AZ:94:LYS:NZ	19:AZ:95:GLY:H	1.78	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Ab:63:LEU:O	21:Ab:63:LEU:CD2	2.28	0.81
26:AJ:114:VAL:HG12	26:AJ:120:ALA:CB	2.07	0.81
29:AG:57:ASP:OD2	29:AG:98:ARG:HG3	1.80	0.81
29:AG:162:LEU:CD2	29:AG:172:LYS:NZ	2.43	0.81
33:AI:118:ALA:HB2	33:AI:149:TYR:CE1	2.15	0.81
38:Cz:68:LEU:HD12	38:Cz:120:ILE:HD12	1.61	0.81
39:Cq:206:ILE:CG2	39:Cq:206:ILE:O	2.28	0.81
40:CK:96:LYS:O	40:CK:98:ILE:HG12	1.80	0.81
44:CM:1:MET:O	44:CM:3:PHE:HB2	1.79	0.81
44:CM:33:GLN:O	44:CM:52:PHE:CE2	2.34	0.81
44:CM:47:ARG:NH2	52:CS:73:LEU:CD1	2.44	0.81
45:Ca:73:VAL:HG21	45:Ca:108:TYR:CE2	2.14	0.81
45:Ca:84:GLU:HA	45:Ca:87:ARG:HG2	0.82	0.81
48:CD:21:ARG:NH2	48:CD:25:GLU:OE2	2.12	0.81
49:CQ:103:LEU:HD21	49:CQ:123:PHE:CE2	2.16	0.81
50:CR:44:LEU:HD23	50:CR:49:LEU:CD1	2.11	0.81
51:CA:118:GLU:OE1	51:CA:119:LYS:CG	2.26	0.81
52:CS:174:THR:HG23	52:CS:175:PHE:N	1.93	0.81
57:CY:110:LYS:C	57:CY:110:LYS:HD3	2.05	0.81
57:CY:111:LEU:HA	57:CY:115:ARG:HD2	1.63	0.81
59:CZ:76:ASN:HD21	59:CZ:78:ASN:ND2	1.78	0.81
60:Cr:6:GLN:NE2	74:CC:133:LEU:CD1	2.43	0.81
60:Cr:128:ARG:O	60:Cr:131:THR:OG1	1.98	0.81
63:CB:154:LYS:C	63:CB:154:LYS:CD	2.52	0.81
67:Ce:6:PRO:CD	67:Ce:93:LYS:CD	2.54	0.81
69:Cg:38:VAL:HG12	69:Cg:40:LYS:CE	2.11	0.81
80:CH:18:ILE:HG22	80:CH:27:VAL:HG22	1.61	0.81
82:CG:85:GLN:O	82:CG:86:ALA:HB2	1.80	0.81
87:A8:126:C:H1'	87:A8:127:U:OP1	1.80	0.81
5:AO:51:GLU:OE1	15:AB:48:LEU:O	1.97	0.81
8:AS:94:LYS:HD3	8:AS:96:SER:HG	1.42	0.81
16:AA:202:TYR:O	16:AA:203:PHE:CG	2.33	0.81
23:AD:214:LYS:CG	23:AD:215:ASP:OD2	2.28	0.81
24:Ae:38:TYR:CZ	26:AJ:30:LYS:HA	2.15	0.81
24:Ae:44:ASN:CA	24:Ae:45:VAL:HB	2.11	0.81
25:Af:103:LEU:CD2	25:Af:105:TYR:HB2	2.10	0.81
26:AJ:109:ARG:O	26:AJ:110:LEU:O	1.98	0.81
28:AC:192:LEU:HD12	28:AC:192:LEU:O	1.81	0.81
30:AF:134:VAL:CG1	30:AF:136:ARG:NH2	2.43	0.81
31:AH:23:ILE:HD11	31:AH:27:LEU:HD21	1.62	0.81
31:AH:36:LEU:C	31:AH:36:LEU:HD13	2.03	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:72:VAL:CG2	34:AQ:84:ILE:HG22	2.10	0.81
42:CL:28:GLN:N	42:CL:29:PRO:CD	2.41	0.81
47:CI:164:LYS:CE	47:CI:166:HIS:NE2	2.44	0.81
49:CQ:187:LYS:O	49:CQ:188:ASN:O	1.99	0.81
55:CU:60:VAL:HA	55:CU:75:GLU:N	1.95	0.81
57:CY:34:LEU:HD23	57:CY:38:LEU:C	2.04	0.81
63:CB:89:ILE:HG22	63:CB:197:ALA:HB1	1.62	0.81
63:CB:116:ARG:NE	63:CB:122:TRP:CE2	2.46	0.81
63:CB:153:MET:HE1	63:CB:160:ILE:HG12	1.61	0.81
63:CB:300:LYS:O	63:CB:301:ASN:CG	2.23	0.81
65:Cc:102:SER:C	65:Cc:104:ILE:N	2.36	0.81
66:Cd:21:VAL:CG1	66:Cd:22:THR:H	1.93	0.81
67:Ce:21:ILE:HD13	67:Ce:21:ILE:O	1.79	0.81
69:Cg:29:ARG:HD2	69:Cg:30:ILE:N	1.96	0.81
74:CC:190:ARG:HG3	74:CC:202:ILE:HD11	1.62	0.81
77:Cp:50:ARG:O	77:Cp:51:ALA:HB3	1.80	0.81
80:CH:20:LEU:HD22	80:CH:45:LEU:CD1	2.10	0.81
80:CH:106:GLN:CG	80:CH:107:GLU:HA	2.09	0.81
85:A5:4943:A:P	85:A5:4944:C:O5'	2.38	0.81
1:Az:160:MET:CE	1:Az:178:PHE:HE2	1.84	0.81
1:Az:751:CYS:HB3	1:Az:755:VAL:HG11	1.62	0.81
1:Az:756:VAL:HG13	1:Az:784:VAL:HG21	1.63	0.81
5:AO:37:PHE:O	5:AO:38:ASN:HB2	1.78	0.81
22:Ac:11:LEU:HB3	22:Ac:35:MET:HE2	1.61	0.81
26:AJ:130:ILE:CG1	26:AJ:135:ILE:HD13	2.10	0.81
26:AJ:134:HIS:CE1	26:AJ:164:PRO:HD3	2.15	0.81
26:AJ:170:PRO:HG2	26:AJ:175:ARG:HG3	0.83	0.81
27:AE:11:ARG:O	27:AE:12:VAL:HG23	1.80	0.81
27:AE:128:LYS:CD	27:AE:130:PHE:CD1	2.63	0.81
29:AG:147:LEU:HD21	29:AG:156:TYR:CE2	2.15	0.81
31:AH:85:LYS:C	31:AH:85:LYS:CD	2.51	0.81
31:AH:93:VAL:HG23	31:AH:94:PHE:N	1.83	0.81
36:B2:1410:C:H42	36:B2:1436:C:H42	1.26	0.81
39:Cq:278:ALA:C	39:Cq:280:PRO:HD2	2.04	0.81
45:Ca:24:LYS:HE3	45:Ca:26:ARG:HH21	1.45	0.81
47:CI:168:SER:C	47:CI:169:LYS:HD2	2.06	0.81
48:CD:130:TYR:HD2	48:CD:131:ASN:CA	1.94	0.81
57:CY:30:MET:CG	57:CY:101:PRO:HG3	2.09	0.81
60:Cr:81:THR:O	60:Cr:82:ILE:CG1	2.29	0.81
61:Ch:87:LYS:CA	71:Cj:73:ARG:HH12	1.94	0.81
63:CB:153:MET:CE	63:CB:160:ILE:HD11	2.07	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:CF:209:TRP:CD1	64:CF:210:PRO:HD2	2.16	0.81
72:Ck:12:LEU:O	72:Ck:16:ARG:CZ	2.29	0.81
74:CC:85:HIS:H	74:CC:87:SER:HG	1.27	0.81
74:CC:349:LEU:HG	74:CC:353:LYS:HE2	1.60	0.81
79:CJ:93:GLU:HG2	79:CJ:173:ILE:HB	1.61	0.81
79:CJ:135:GLY:CA	79:CJ:157:ILE:HD11	2.09	0.81
81:CE:190:HIS:HB3	81:CE:193:PHE:CD1	2.15	0.81
82:CG:80:ILE:HG12	82:CG:164:ILE:CD1	2.10	0.81
82:CG:98:LEU:HD21	82:CG:215:LEU:CD2	2.10	0.81
82:CG:160:ASP:CG	82:CG:187:LYS:HB3	2.06	0.81
82:CG:166:LEU:O	82:CG:167:VAL:CG2	2.29	0.81
82:CG:207:VAL:HG21	82:CG:215:LEU:HD13	1.61	0.81
83:Cs:41:PRO:C	83:Cs:44:PRO:CG	2.52	0.81
1:Az:420:LEU:N	1:Az:420:LEU:HD22	1.96	0.81
1:Az:762:VAL:HG11	1:Az:796:PHE:CD1	2.15	0.81
4:AK:83:LEU:HB2	4:AK:85:LEU:HD21	1.62	0.81
8:AS:11:HIS:CD2	8:AS:23:ARG:HH21	1.95	0.81
10:AN:59:GLY:O	10:AN:60:VAL:HG13	1.80	0.81
15:AB:146:ARG:O	15:AB:147:ASN:C	2.20	0.81
18:AY:99:LYS:CE	18:AY:99:LYS:C	2.54	0.81
20:Aa:49:ALA:HB1	20:Aa:53:ILE:CD1	2.11	0.81
23:AD:18:LYS:NZ	23:AD:37:VAL:CG2	2.44	0.81
23:AD:78:GLY:O	23:AD:80:PRO:HD3	1.79	0.81
27:AE:86:PHE:HZ	27:AE:182:MET:HE3	1.45	0.81
28:AC:94:ILE:HG12	28:AC:159:LYS:HB3	1.63	0.81
29:AG:16:ILE:HD13	29:AG:45:TRP:HZ2	0.70	0.81
29:AG:29:GLU:O	29:AG:29:GLU:HG2	1.78	0.81
34:AQ:19:ALA:CB	34:AQ:74:GLY:C	2.52	0.81
35:Ah:152:SER:CB	35:Ah:155:ARG:CD	2.58	0.81
39:Cq:228:GLN:OE1	84:Cu:54:VAL:O	1.97	0.81
39:Cq:251:LEU:HD12	84:Cv:8:LEU:CD2	2.09	0.81
40:CK:93:LYS:O	40:CK:94:LYS:HB2	1.79	0.81
44:CM:60:PHE:HE2	44:CM:85:LYS:HB2	0.65	0.81
44:CM:66:HIS:O	44:CM:67:SER:CB	2.29	0.81
46:CN:136:ASP:O	46:CN:139:HIS:HB2	1.80	0.81
46:CN:183:THR:O	46:CN:184:ILE:HB	1.79	0.81
46:CN:186:GLY:H	46:CN:191:ALA:HB2	1.46	0.81
47:CI:17:TYR:CE1	47:CI:23:CYS:SG	2.74	0.81
47:CI:175:LYS:CB	47:CI:176:PHE:CD1	2.64	0.81
48:CD:129:GLU:CG	48:CD:177:THR:HG22	2.07	0.81
49:CQ:19:LYS:O	49:CQ:19:LYS:CD	2.29	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CT:145:GLY:C	53:CT:146:LYS:CG	2.51	0.81
53:CT:147:GLU:HB3	53:CT:148:PRO:CD	2.10	0.81
54:CP:27:LYS:CE	54:CP:63:TYR:HD1	1.93	0.81
59:CZ:36:ARG:CZ	59:CZ:36:ARG:HB3	2.11	0.81
60:Cr:42:GLY:O	60:Cr:43:LEU:CD1	2.29	0.81
60:Cr:43:LEU:O	60:Cr:43:LEU:CD1	2.29	0.81
61:Ch:47:ILE:HG23	61:Ch:48:ARG:N	1.96	0.81
63:CB:119:TYR:CZ	63:CB:125:SER:HB2	2.16	0.81
66:Cd:39:LYS:NZ	66:Cd:78:ARG:HE	1.78	0.81
66:Cd:41:ARG:C	66:Cd:43:PRO:CD	2.53	0.81
71:Cj:36:LYS:NZ	71:Cj:57:ASN:HD21	1.76	0.81
78:Co:43:ARG:HH22	85:A5:294:G:C5'	1.94	0.81
81:CE:149:ILE:CG2	81:CE:197:THR:HB	2.10	0.81
82:CG:121:LYS:HE2	82:CG:127:ASP:OD1	1.81	0.81
5:AO:129:ILE:HG21	20:Aa:44:ILE:HG21	1.60	0.81
11:AL:149:ALA:HB2	11:AL:156:GLN:HE21	1.00	0.81
12:AR:44:LYS:HG3	12:AR:47:ARG:NH1	1.96	0.81
17:AV:29:HIS:CE1	28:AC:85:SER:O	2.33	0.81
18:AY:99:LYS:CE	18:AY:99:LYS:O	2.29	0.81
23:AD:105:LEU:HD21	23:AD:184:ILE:HD12	1.62	0.81
27:AE:184:THR:C	27:AE:189:LEU:HD13	2.06	0.81
28:AC:73:MET:HE1	28:AC:96:PHE:CZ	2.15	0.81
28:AC:99:GLY:CA	28:AC:102:LEU:HB3	2.10	0.81
28:AC:180:VAL:CG1	28:AC:181:PRO:CD	2.58	0.81
30:AF:39:ILE:CG2	30:AF:68:ILE:HD13	2.11	0.81
32:AW:102:ILE:H	32:AW:113:HIS:CE1	1.99	0.81
39:Cq:26:LYS:HZ2	39:Cq:91:THR:C	1.86	0.81
39:Cq:60:MET:HE3	39:Cq:88:PHE:CZ	2.16	0.81
39:Cq:124:PRO:HA	39:Cq:157:ASP:OD1	1.81	0.81
40:CK:17:CYS:O	40:CK:18:THR:OG1	1.97	0.81
40:CK:78:SER:HB3	40:CK:117:ARG:HH11	0.69	0.81
43:CV:36:ASN:ND2	43:CV:67:LYS:HG2	1.96	0.81
47:CI:109:ASP:HA	47:CI:112:GLN:HE21	1.44	0.81
50:CR:175:GLU:OE2	50:CR:179:ALA:HB2	1.81	0.81
51:CA:84:THR:O	77:Cp:62:LYS:HE3	1.80	0.81
52:CS:88:SER:OG	52:CS:89:GLY:CA	2.29	0.81
55:CU:60:VAL:CA	55:CU:75:GLU:H	1.94	0.81
60:Cr:90:LEU:CB	60:Cr:118:LEU:CD1	2.59	0.81
64:CF:30:ILE:HG22	64:CF:34:ARG:CZ	2.06	0.81
69:Cg:22:LEU:CD2	69:Cg:32:TYR:CE1	2.64	0.81
69:Cg:37:LYS:CB	69:Cg:60:ARG:NH2	2.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:22:LEU:CD2	79:CJ:130:PHE:CD2	2.64	0.81
80:CH:18:ILE:HD11	80:CH:55:LEU:HD12	0.83	0.81
1:Az:10:ARG:CD	1:Az:13:MET:SD	2.69	0.81
1:Az:271:GLY:C	1:Az:272:LYS:HG2	2.06	0.81
1:Az:562:GLU:HA	1:Az:570:ILE:CD1	2.08	0.81
1:Az:752:PRO:HD2	1:Az:755:VAL:HG23	1.61	0.81
6:AX:11:ARG:CZ	11:AL:103:GLU:OE1	2.29	0.81
6:AX:29:LYS:CD	6:AX:34:THR:CG2	2.58	0.81
8:AS:94:LYS:CE	8:AS:95:TYR:O	2.29	0.81
13:AP:83:MET:CE	13:AP:116:LEU:HD11	2.02	0.81
15:AB:130:THR:CG2	15:AB:179:ASN:H	1.93	0.81
16:AA:57:LYS:HZ1	17:AV:70:LEU:HD11	1.00	0.81
16:AA:127:PRO:HA	16:AA:134:LEU:HD11	1.61	0.81
17:AV:32:ILE:HD12	17:AV:60:ARG:CD	2.10	0.81
18:AY:101:LYS:O	18:AY:102:THR:CG2	2.29	0.81
18:AY:114:MET:CE	18:AY:125:VAL:HG23	2.11	0.81
23:AD:108:LYS:CB	23:AD:113:LEU:HD22	2.10	0.81
27:AE:49:ARG:HB3	27:AE:55:ALA:HB3	1.62	0.81
30:AF:44:LYS:O	30:AF:44:LYS:HD2	1.81	0.81
31:AH:14:GLU:OE1	31:AH:16:PRO:CG	2.29	0.81
31:AH:98:ARG:CZ	31:AH:128:ALA:HB1	2.11	0.81
35:Ah:158:ILE:HA	35:Ah:161:PRO:CG	2.11	0.81
36:B2:931:C:H6	36:B2:931:C:O5'	1.62	0.81
40:CK:116:MET:HB2	40:CK:117:ARG:NH2	1.95	0.81
41:CO:118:MET:HB3	52:CS:167:PHE:HB2	1.63	0.81
46:CN:169:ARG:NH2	46:CN:169:ARG:HB3	1.95	0.81
47:CI:105:CYS:O	47:CI:108:ALA:CB	2.29	0.81
48:CD:190:PHE:CE2	48:CD:192:ALA:HA	2.16	0.81
49:CQ:19:LYS:HG3	49:CQ:20:SER:N	1.93	0.81
52:CS:19:THR:HB	52:CS:20:PRO:CD	2.02	0.81
52:CS:35:PRO:HD2	52:CS:39:VAL:HG21	1.63	0.81
57:CY:22:PRO:CG	57:CY:25:ILE:CD1	2.59	0.81
57:CY:86:GLN:HB3	57:CY:96:HIS:HA	1.62	0.81
65:Cc:17:ARG:CG	65:Cc:104:ILE:CG1	2.52	0.81
67:Cc:65:LYS:HG3	67:Cc:65:LYS:O	1.80	0.81
74:CC:14:LYS:HD2	74:CC:15:GLY:H	1.42	0.81
80:CH:31:ARG:O	80:CH:149:ASN:ND2	2.14	0.81
80:CH:111:LEU:HD21	80:CH:127:ARG:HD3	1.59	0.81
82:CG:42:GLY:O	82:CG:43:GLN:CG	2.29	0.81
82:CG:150:LYS:CG	82:CG:177:MET:CE	2.58	0.81
1:Az:58:ASP:O	1:Az:63:GLU:CB	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:591:CYS:SG	1:Az:732:SER:HB3	2.21	0.81
8:AS:129:LEU:CD2	36:B2:1521:C:H5'	2.11	0.81
12:AR:99:ASP:O	12:AR:119:VAL:CB	2.29	0.81
13:AP:10:ARG:HE	13:AP:11:THR:H	1.26	0.81
13:AP:68:PRO:HB2	13:AP:69:PRO:CD	2.09	0.81
14:AT:31:PRO:CG	14:AT:102:ARG:HG3	2.10	0.81
16:AA:24:HIS:O	16:AA:25:LEU:C	2.24	0.81
16:AA:141:ASN:ND2	17:AV:29:HIS:HB3	1.95	0.81
18:AY:54:VAL:HG12	18:AY:76:TYR:H	1.44	0.81
21:Ab:16:LYS:CA	21:Ab:23:ARG:HH21	1.88	0.81
25:Af:95:ARG:HD3	25:Af:96:LYS:H	1.46	0.81
27:AE:129:ILE:HG13	27:AE:139:LEU:HD22	1.34	0.81
30:AF:25:THR:CB	30:AF:42:LYS:HG3	2.11	0.81
30:AF:44:LYS:O	30:AF:44:LYS:CD	2.29	0.81
31:AH:100:ILE:CG1	31:AH:125:VAL:HG21	2.11	0.81
33:AI:154:LYS:C	33:AI:154:LYS:HD3	2.02	0.81
34:AQ:109:LYS:HG2	34:AQ:113:ILE:HD12	1.62	0.81
38:Cz:7:ARG:HG3	38:Cz:9:THR:HG22	1.62	0.81
40:CK:52:ASP:O	40:CK:54:LYS:C	2.23	0.81
40:CK:96:LYS:C	40:CK:98:ILE:HG12	2.05	0.81
46:CN:44:ARG:HG3	46:CN:119:TYR:CZ	2.16	0.81
47:CI:24:ARG:O	47:CI:24:ARG:CG	2.29	0.81
50:CR:65:LYS:HA	50:CR:68:LEU:CD2	2.09	0.81
50:CR:142:ILE:HA	50:CR:145:LEU:CG	2.10	0.81
54:CP:64:ASN:OD1	54:CP:65:GLY:HA2	1.80	0.81
56:CX:76:ILE:HD11	56:CX:104:ALA:CB	2.09	0.81
59:CZ:57:MET:HE1	59:CZ:61:LYS:HB2	0.81	0.81
60:Cr:75:THR:OG1	74:CC:149:GLU:N	2.14	0.81
63:CB:24:ARG:O	63:CB:26:ARG:N	2.14	0.81
63:CB:300:LYS:O	63:CB:301:ASN:OD1	1.99	0.81
66:Cd:23:ARG:HD3	66:Cd:25:TYR:HH	1.46	0.81
68:Cf:42:TYR:OH	81:CE:284:HIS:CA	2.28	0.81
70:CI:58:MET:HA	70:CI:61:LEU:HD12	1.61	0.81
71:Cj:84:PRO:CB	71:Cj:86:PRO:HD2	2.10	0.81
80:CH:6:SER:OG	80:CH:67:LEU:HD22	1.80	0.81
82:CG:207:VAL:HG11	82:CG:215:LEU:CD1	2.10	0.81
1:Az:540:GLU:OE1	1:Az:540:GLU:CA	2.29	0.80
1:Az:638:LYS:HD2	1:Az:638:LYS:N	1.95	0.80
1:Az:692:LEU:HG	1:Az:824:PRO:HB3	1.63	0.80
2:Ag:12:LYS:HD2	2:Ag:13:GLY:HA3	1.57	0.80
4:AK:83:LEU:HB2	4:AK:85:LEU:CD2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:113:PHE:CE2	10:AN:117:LEU:HD11	2.17	0.80
12:AR:99:ASP:CB	12:AR:119:VAL:HG11	2.10	0.80
15:AB:72:ALA:HB1	15:AB:77:ASP:OD2	1.80	0.80
16:AA:145:ILE:CD1	16:AA:159:ILE:CG2	2.55	0.80
18:AY:7:ILE:HD11	18:AY:43:LYS:CB	2.11	0.80
18:AY:46:LYS:HD2	18:AY:46:LYS:O	1.80	0.80
19:AZ:62:VAL:HA	19:AZ:65:TYR:CE2	2.16	0.80
22:Ac:51:ARG:HB2	30:AF:61:PHE:CE2	2.17	0.80
25:Af:135:HIS:HB3	25:Af:138:ARG:HG3	0.81	0.80
27:AE:175:PHE:O	27:AE:175:PHE:HD2	1.63	0.80
27:AE:241:GLY:O	27:AE:244:ILE:HG13	1.81	0.80
29:AG:147:LEU:O	29:AG:151:ASP:OD2	1.98	0.80
29:AG:157:VAL:HG11	29:AG:159:ARG:HG3	1.63	0.80
34:AQ:116:ASP:O	34:AQ:117:ARG:HB2	1.78	0.80
35:Ah:150:GLU:CA	35:Ah:153:VAL:HG11	2.11	0.80
35:Ah:152:SER:OG	35:Ah:154:ASP:CB	2.29	0.80
35:Ah:179:MET:HG3	35:Ah:181:ARG:CG	2.09	0.80
39:Cq:75:LEU:HD22	39:Cq:78:LEU:HD12	1.60	0.80
39:Cq:75:LEU:CD2	39:Cq:78:LEU:CD1	2.58	0.80
43:CV:25:VAL:CG1	43:CV:38:TYR:CD1	2.58	0.80
47:CI:106:ALA:C	47:CI:108:ALA:CA	2.54	0.80
53:CT:36:LYS:HD3	53:CT:36:LYS:C	2.06	0.80
54:CP:41:ILE:CD1	54:CP:150:LEU:HD22	2.10	0.80
54:CP:41:ILE:HD11	54:CP:150:LEU:HB3	1.62	0.80
55:CU:48:LYS:HG3	55:CU:52:LYS:HG2	1.64	0.80
56:CX:89:LYS:HZ2	56:CX:97:VAL:CG2	1.93	0.80
57:CY:22:PRO:HD3	57:CY:25:ILE:HD12	1.63	0.80
60:Cr:70:GLN:HA	60:Cr:70:GLN:NE2	1.96	0.80
60:Cr:71:ARG:CZ	60:Cr:71:ARG:H	1.94	0.80
60:Cr:72:LYS:O	60:Cr:72:LYS:CG	2.29	0.80
66:Cd:115:LYS:C	66:Cd:116:ASN:ND2	2.39	0.80
80:CH:49:GLY:HA2	80:CH:50:LYS:HZ2	1.00	0.80
82:CG:28:VAL:O	82:CG:31:LEU:HD22	1.79	0.80
82:CG:99:ALA:CA	82:CG:204:PHE:HZ	1.95	0.80
1:Az:155:LEU:CD1	1:Az:185:VAL:HG21	2.11	0.80
6:AX:126:ALA:O	6:AX:128:VAL:CB	2.29	0.80
10:AN:16:LEU:HD11	10:AN:62:GLN:NE2	1.95	0.80
11:AL:80:MET:HE2	11:AL:120:VAL:O	1.81	0.80
16:AA:103:PHE:CE2	16:AA:136:GLU:CD	2.50	0.80
18:AY:7:ILE:CG1	18:AY:43:LYS:HD3	2.11	0.80
18:AY:114:MET:HG2	18:AY:124:ASN:HB3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Ab:41:TYR:N	21:Ab:41:TYR:CD2	2.49	0.80
25:Af:87:THR:CB	36:B2:1507:G:H22	1.95	0.80
25:Af:102:VAL:HG12	25:Af:103:LEU:H	1.43	0.80
26:AJ:172:ARG:NH2	36:B2:562:U:C6	2.50	0.80
27:AE:117:GLU:HG3	27:AE:118:GLU:H	1.46	0.80
34:AQ:30:GLY:O	34:AQ:31:LEU:CD1	2.29	0.80
34:AQ:85:ARG:HH12	34:AQ:117:ARG:CB	1.93	0.80
39:Cq:259:PHE:O	39:Cq:264:LYS:HB3	1.81	0.80
40:CK:107:ASP:CG	40:CK:143:VAL:CG1	2.52	0.80
41:CO:108:ILE:HG23	41:CO:160:ARG:NE	1.95	0.80
41:CO:190:ASP:OD1	41:CO:194:GLU:HG2	1.80	0.80
43:CV:30:ASP:OD2	43:CV:32:THR:HG21	1.82	0.80
46:CN:45:PRO:HG2	82:CG:166:LEU:HD21	1.62	0.80
47:CI:24:ARG:O	47:CI:24:ARG:CD	2.29	0.80
47:CI:102:MET:O	47:CI:102:MET:CG	2.29	0.80
47:CI:185:VAL:HG23	47:CI:190:LEU:HD11	1.64	0.80
47:CI:186:ALA:O	47:CI:187:LYS:HD3	1.81	0.80
48:CD:142:PHE:CB	48:CD:171:LEU:CD2	2.47	0.80
49:CQ:187:LYS:HG3	49:CQ:188:ASN:N	1.96	0.80
50:CR:99:MET:SD	50:CR:127:VAL:CG1	2.69	0.80
51:CA:62:VAL:HG22	51:CA:73:THR:CG2	2.10	0.80
52:CS:19:THR:OG1	52:CS:20:PRO:CD	2.29	0.80
53:CT:11:THR:CG2	53:CT:15:PHE:HE2	1.93	0.80
53:CT:148:PRO:O	53:CT:148:PRO:CG	2.29	0.80
56:CX:89:LYS:HZ3	56:CX:137:TYR:HD1	0.84	0.80
57:CY:22:PRO:HD2	57:CY:25:ILE:HB	1.61	0.80
61:Ch:87:LYS:C	71:Cj:73:ARG:NH2	2.37	0.80
65:Cc:99:PRO:CB	65:Cc:105:ILE:HD11	2.10	0.80
70:Ci:43:MET:HE1	82:CG:173:LEU:HD23	0.80	0.80
74:CC:109:ARG:NE	74:CC:111:TRP:CH2	2.49	0.80
78:Co:33:LEU:O	78:Co:34:TYR:CB	2.28	0.80
80:CH:105:ILE:HG21	80:CH:112:VAL:HG22	1.63	0.80
81:CE:83:LYS:HD3	81:CE:86:GLU:N	1.93	0.80
81:CE:106:VAL:HG23	81:CE:107:VAL:CG1	2.11	0.80
82:CG:51:LEU:HD23	82:CG:51:LEU:N	1.94	0.80
82:CG:98:LEU:HG	82:CG:215:LEU:CD2	2.11	0.80
84:Cu:18:PRO:O	84:Cu:23:ILE:CD1	2.30	0.80
1:Az:420:LEU:CD2	1:Az:420:LEU:O	2.30	0.80
1:Az:575:PRO:O	1:Az:577:VAL:HG22	1.80	0.80
1:Az:746:LEU:CD1	1:Az:785:LYS:CG	2.58	0.80
2:Ag:144:ASP:O	2:Ag:145:GLU:CB	2.29	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:40:ILE:HD11	3:AU:53:PRO:HG3	0.81	0.80
3:AU:48:LEU:C	3:AU:49:LYS:HG3	2.05	0.80
3:AU:69:PRO:O	3:AU:69:PRO:CD	2.30	0.80
4:AK:66:HIS:CE1	23:AD:76:ARG:HD3	2.05	0.80
10:AN:25:TRP:CZ3	21:Ab:45:THR:HG21	2.15	0.80
25:Af:97:LYS:HB2	25:Af:97:LYS:HZ2	1.43	0.80
26:AJ:170:PRO:HB2	26:AJ:174:LYS:HB3	1.63	0.80
28:AC:275:LYS:CG	28:AC:276:THR:N	2.30	0.80
29:AG:162:LEU:CG	29:AG:170:ARG:HB2	2.12	0.80
31:AH:14:GLU:OE1	31:AH:16:PRO:CB	2.29	0.80
38:Cz:204:LEU:HD13	38:Cz:216:LEU:CD1	2.03	0.80
39:Cq:81:HIS:HD2	39:Cq:191:GLN:CB	1.95	0.80
39:Cq:130:LEU:HD23	39:Cq:131:GLY:H	1.45	0.80
39:Cq:199:TYR:HD1	39:Cq:204:LEU:N	1.79	0.80
40:CK:32:ILE:C	40:CK:34:PRO:HD3	2.07	0.80
40:CK:131:GLU:CD	40:CK:155:ILE:HD12	2.05	0.80
41:CO:143:HIS:HB2	41:CO:150:GLN:OE1	1.80	0.80
42:CL:26:PHE:C	42:CL:29:PRO:HD3	2.05	0.80
48:CD:256:LYS:O	48:CD:256:LYS:CD	2.29	0.80
49:CQ:144:LYS:N	49:CQ:144:LYS:HE3	1.97	0.80
52:CS:11:LYS:HG3	52:CS:29:ARG:HD3	1.62	0.80
53:CT:125:TRP:HD1	53:CT:126:VAL:CG2	1.74	0.80
60:Cr:108:MET:HE1	81:CE:115:TYR:CD1	2.16	0.80
66:Cd:43:PRO:HD2	66:Cd:44:ARG:N	1.95	0.80
70:Ci:63:VAL:HG12	70:Ci:64:SER:H	0.71	0.80
81:CE:264:ILE:CG2	81:CE:265:PRO:N	2.44	0.80
83:Cs:42:PHE:O	83:Cs:46:LEU:HG	1.80	0.80
83:Cs:44:PRO:CD	83:Cs:45:GLY:H	1.94	0.80
85:A5:1240:G:C2'	85:A5:1240:G:N9	2.44	0.80
3:AU:97:ILE:HG22	3:AU:101:ILE:HD12	1.63	0.80
6:AX:5:ARG:HA	11:AL:101:ARG:HH12	1.46	0.80
8:AS:47:LYS:HZ1	8:AS:78:LYS:HB2	1.46	0.80
8:AS:94:LYS:CB	8:AS:95:TYR:O	2.30	0.80
9:Ad:13:LYS:HE3	9:Ad:14:PHE:CD2	2.15	0.80
11:AL:82:MET:HE1	36:B2:373:G:H5'	1.63	0.80
13:AP:51:ARG:H	13:AP:51:ARG:CD	1.93	0.80
13:AP:62:LYS:HG3	13:AP:65:LYS:CE	2.11	0.80
14:AT:114:GLU:OE2	14:AT:122:LYS:HE3	1.81	0.80
18:AY:98:GLU:OE2	18:AY:99:LYS:N	2.15	0.80
22:Ac:5:ARG:N	22:Ac:5:ARG:NH1	2.30	0.80
23:AD:112:GLY:O	23:AD:113:LEU:CD1	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:31:ARG:CB	24:Ae:31:ARG:CZ	2.59	0.80
27:AE:244:ILE:O	27:AE:245:ARG:HB3	1.82	0.80
28:AC:169:TYR:HE1	28:AC:177:PRO:HG3	1.46	0.80
29:AG:157:VAL:HG11	29:AG:159:ARG:H	1.46	0.80
33:AI:3:ILE:O	33:AI:3:ILE:CG2	2.29	0.80
33:AI:29:LEU:HG	33:AI:30:GLY:H	1.46	0.80
33:AI:140:LYS:O	33:AI:141:ARG:HG3	1.82	0.80
38:Cz:76:GLU:O	38:Cz:80:VAL:HG23	1.81	0.80
39:Cq:90:PHE:O	39:Cq:91:THR:CG2	2.30	0.80
39:Cq:259:PHE:CB	39:Cq:264:LYS:CG	2.56	0.80
40:CK:8:ASN:O	40:CK:9:GLU:CB	2.29	0.80
46:CN:3:ALA:HB2	82:CG:140:VAL:HG12	1.63	0.80
56:CX:120:ASP:O	56:CX:121:VAL:HG23	1.81	0.80
58:CW:14:TYR:CZ	63:CB:380:GLN:CG	2.64	0.80
59:CZ:55:ALA:O	59:CZ:56:ALA:CB	2.29	0.80
63:CB:51:ALA:HB3	63:CB:78:ILE:HD12	1.60	0.80
66:Cd:42:ALA:HB1	66:Cd:73:TRP:CD2	2.16	0.80
66:Cd:83:ARG:O	66:Cd:114:PHE:CE2	2.35	0.80
69:Cg:25:THR:HB	69:Cg:26:PRO:CD	2.12	0.80
74:CC:105:THR:HB	74:CC:109:ARG:NH2	1.96	0.80
80:CH:9:THR:HB	80:CH:54:ARG:HD3	1.63	0.80
81:CE:224:LYS:O	81:CE:226:ARG:CA	2.30	0.80
1:Az:101:ASN:CB	1:Az:469:ILE:HD13	2.12	0.80
1:Az:420:LEU:HB2	1:Az:465:PRO:HA	1.63	0.80
1:Az:498:LYS:C	1:Az:500:SER:N	2.38	0.80
1:Az:592:LEU:HD22	1:Az:603:TYR:CZ	2.16	0.80
2:Ag:93:THR:HB	2:Ag:94:THR:HG23	1.63	0.80
4:AK:39:ASN:O	4:AK:40:VAL:CG1	2.29	0.80
6:AX:105:PHE:CD1	6:AX:112:VAL:CG2	2.64	0.80
8:AS:55:ARG:HH11	19:AZ:80:ARG:HE	1.26	0.80
10:AN:21:SER:C	10:AN:22:VAL:HG13	2.05	0.80
15:AB:21:VAL:O	15:AB:21:VAL:CG2	2.30	0.80
15:AB:209:ASP:O	15:AB:210:VAL:HG23	1.82	0.80
27:AE:148:ARG:NH2	29:AG:202:ASN:OD1	2.15	0.80
30:AF:14:THR:HG23	34:AQ:56:LEU:CB	2.00	0.80
31:AH:83:LEU:HD12	31:AH:84:GLU:N	1.96	0.80
34:AQ:25:CYS:SG	34:AQ:91:ALA:CB	2.63	0.80
34:AQ:42:ILE:HD13	34:AQ:51:LEU:CD1	2.12	0.80
39:Cq:254:GLU:CD	84:Cv:54:VAL:CG1	2.45	0.80
40:CK:126:SER:OG	40:CK:159:ALA:HA	1.81	0.80
44:CM:14:TYR:HB3	44:CM:56:GLN:HG3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:87:ARG:C	45:Ca:91:ALA:HB1	2.06	0.80
46:CN:4:TYR:OH	85:A5:151:G:OP2	2.00	0.80
47:CI:76:MET:HE3	47:CI:151:ALA:HB2	1.63	0.80
49:CQ:13:VAL:O	49:CQ:13:VAL:CG1	2.29	0.80
53:CT:145:GLY:O	53:CT:146:LYS:CD	2.30	0.80
55:CU:84:LYS:HE3	55:CU:102:VAL:HB	1.64	0.80
55:CU:90:TYR:CE2	55:CU:94:ASN:ND2	2.49	0.80
59:CZ:68:ILE:HG22	59:CZ:119:GLU:CG	2.12	0.80
60:Cr:6:GLN:HE22	74:CC:133:LEU:HD21	1.47	0.80
60:Cr:54:ALA:O	60:Cr:55:ALA:CB	2.29	0.80
60:Cr:72:LYS:O	60:Cr:72:LYS:CD	2.29	0.80
65:Cc:13:SER:HB3	65:Cc:17:ARG:NE	1.96	0.80
66:Cd:41:ARG:C	66:Cd:43:PRO:HD3	2.06	0.80
72:Ck:23:VAL:CG2	72:Ck:64:LEU:HD21	2.10	0.80
74:CC:341:LEU:O	74:CC:344:ALA:N	2.13	0.80
82:CG:28:VAL:O	82:CG:31:LEU:CD2	2.29	0.80
83:Ct:16:LEU:HD21	83:Ct:31:LEU:CD1	2.10	0.80
1:Az:692:LEU:CD1	1:Az:824:PRO:HB3	2.11	0.80
1:Az:763:LEU:CD1	1:Az:786:ALA:CB	2.59	0.80
2:Ag:194:TYR:CE2	2:Ag:212:LYS:CB	2.65	0.80
4:AK:98:ARG:HG2	4:AK:98:ARG:NH1	1.91	0.80
5:AO:34:PHE:HZ	5:AO:100:THR:HA	1.44	0.80
7:AM:89:VAL:HG12	7:AM:90:GLY:H	1.47	0.80
8:AS:10:GLN:HB3	8:AS:13:LEU:HD21	1.62	0.80
10:AN:23:PRO:HD2	10:AN:26:LEU:HD23	1.62	0.80
15:AB:66:VAL:HG22	15:AB:87:ILE:CB	2.10	0.80
16:AA:14:ASP:HB3	16:AA:18:PHE:HE2	1.46	0.80
16:AA:59:LEU:HD23	16:AA:181:GLU:HG2	1.64	0.80
17:AV:42:VAL:O	17:AV:43:THR:CG2	2.30	0.80
23:AD:195:THR:CA	23:AD:197:LYS:O	2.30	0.80
23:AD:212:GLU:O	23:AD:213:PRO:C	2.25	0.80
25:Af:103:LEU:HD22	25:Af:106:TYR:CD2	2.17	0.80
31:AH:12:ASN:CB	31:AH:46:THR:OG1	2.30	0.80
32:AW:20:ARG:HH12	36:B2:1139:C:H1'	1.45	0.80
33:AI:139:LYS:HB2	33:AI:145:ILE:CD1	2.08	0.80
34:AQ:7:LEU:HD23	34:AQ:8:GLN:H	1.44	0.80
34:AQ:114:GLN:HG3	34:AQ:115:TYR:N	1.93	0.80
38:Cz:40:ASN:HB3	38:Cz:197:ASN:ND2	1.96	0.80
40:CK:162:CYS:N	40:CK:163:PRO:CD	2.44	0.80
41:CO:81:TRP:HZ3	41:CO:85:ARG:NH2	1.80	0.80
46:CN:8:GLN:NE2	46:CN:50:ARG:NH2	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:74:GLY:O	49:CQ:78:LYS:HG2	1.81	0.80
50:CR:134:ASN:OD1	50:CR:136:ARG:N	2.14	0.80
51:CA:83:HIS:CE1	51:CA:86:GLN:HB2	2.15	0.80
51:CA:139:HIS:ND1	51:CA:146:THR:HG23	1.96	0.80
51:CA:143:THR:O	51:CA:143:THR:CG2	2.30	0.80
53:CT:127:GLN:NE2	53:CT:127:GLN:HA	1.94	0.80
56:CX:81:LEU:HD12	56:CX:135:LYS:HG3	1.62	0.80
58:CW:76:VAL:O	58:CW:77:LYS:CE	2.29	0.80
60:Cr:76:SER:O	60:Cr:79:ARG:CG	2.29	0.80
61:Ch:8:ASP:C	61:Ch:12:LYS:HE3	2.05	0.80
63:CB:80:GLU:CD	63:CB:171:LEU:HD13	2.06	0.80
63:CB:146:LEU:O	63:CB:150:PHE:CE1	2.35	0.80
66:Cd:16:ALA:O	66:Cd:17:ILE:CG2	2.30	0.80
66:Cd:64:ILE:HD11	66:Cd:68:LEU:CG	2.11	0.80
70:Ci:11:LEU:CD1	70:Ci:12:ASN:OD1	2.30	0.80
70:Ci:11:LEU:CD2	70:Ci:12:ASN:OD1	2.29	0.80
79:CJ:87:LEU:CD2	79:CJ:166:PHE:HZ	1.95	0.80
80:CH:34:LEU:CG	80:CH:150:ASP:OD1	2.29	0.80
1:Az:430:MET:HE2	1:Az:486:THR:OG1	1.80	0.80
1:Az:710:HIS:HD2	1:Az:715:HIS:HB2	1.43	0.80
1:Az:746:LEU:CD1	1:Az:785:LYS:CD	2.56	0.80
1:Az:791:ASN:C	1:Az:794:PHE:CE1	2.55	0.80
6:AX:29:LYS:HD3	6:AX:34:THR:CG2	2.11	0.80
6:AX:52:LEU:HD12	6:AX:53:GLU:CB	2.11	0.80
7:AM:71:GLU:O	7:AM:72:HIS:O	1.98	0.80
12:AR:51:ALA:O	12:AR:55:THR:HG23	1.80	0.80
13:AP:5:GLU:O	13:AP:6:GLN:CG	2.30	0.80
13:AP:12:PHE:CE2	79:CJ:88:LYS:HD2	2.16	0.80
14:AT:23:LYS:CE	14:AT:54:TYR:CD2	2.63	0.80
16:AA:60:LEU:HD13	16:AA:60:LEU:O	1.81	0.80
18:AY:34:THR:HG22	18:AY:35:VAL:H	1.40	0.80
18:AY:44:LEU:CD1	18:AY:48:TYR:HE2	1.93	0.80
23:AD:192:TRP:HE3	23:AD:196:GLY:HA2	1.38	0.80
23:AD:226:GLN:O	23:AD:227:LYS:CG	2.30	0.80
26:AJ:110:LEU:HD11	26:AJ:130:ILE:HG12	1.63	0.80
28:AC:69:LEU:CD2	28:AC:269:PHE:HB3	2.12	0.80
28:AC:169:TYR:HH	28:AC:176:LYS:HA	1.42	0.80
33:AI:145:ILE:HA	33:AI:148:LYS:HG3	1.64	0.80
34:AQ:92:LEU:HD11	34:AQ:96:TYR:OH	1.81	0.80
36:B2:242:U:H3	36:B2:280:G:H1	1.29	0.80
39:Cq:6:ARG:HG2	39:Cq:10:LYS:CD	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:134:LYS:O	39:Cq:137:PHE:N	2.13	0.80
39:Cq:259:PHE:HB3	39:Cq:260:PRO:CD	2.11	0.80
42:CL:47:ALA:O	42:CL:50:PRO:O	1.98	0.80
42:CL:94:ILE:CG2	42:CL:120:TYR:CE2	2.65	0.80
44:CM:31:ILE:HG22	44:CM:35:ARG:HD3	1.63	0.80
46:CN:6:TYR:CD1	70:Ci:43:MET:SD	2.75	0.80
47:CI:206:LEU:C	47:CI:206:LEU:HB3	2.05	0.80
51:CA:60:LYS:HG2	51:CA:75:LEU:CD2	2.12	0.80
56:CX:87:MET:CE	56:CX:156:ILE:HD12	2.12	0.80
57:CY:3:PHE:HZ	74:CC:222:ARG:NE	1.78	0.80
57:CY:3:PHE:HZ	74:CC:222:ARG:HD3	1.45	0.80
57:CY:47:MET:CE	57:CY:48:PRO:HD2	1.98	0.80
57:CY:54:GLU:OE2	57:CY:69:LYS:HB2	1.81	0.80
60:Cr:71:ARG:HB2	60:Cr:73:PRO:HA	1.63	0.80
60:Cr:112:ARG:HD2	60:Cr:113:ARG:HD2	1.64	0.80
61:Ch:109:ARG:HB3	61:Ch:109:ARG:CZ	2.11	0.80
62:Cb:22:LYS:NZ	62:Cb:22:LYS:CB	2.42	0.80
63:CB:92:TYR:CB	63:CB:99:LEU:HD11	2.11	0.80
65:Cc:51:ASN:HD22	65:Cc:78:ASN:ND2	1.80	0.80
66:Cd:42:ALA:N	66:Cd:43:PRO:HD3	1.97	0.80
69:Cg:22:LEU:HD22	69:Cg:32:TYR:CE1	2.17	0.80
71:Cj:64:MET:HE1	71:Cj:68:LYS:HA	1.62	0.80
74:CC:210:ILE:HG23	74:CC:230:LEU:O	1.82	0.80
74:CC:316:LYS:HB2	74:CC:324:ILE:HD12	1.64	0.80
82:CG:24:ALA:O	82:CG:27:VAL:N	2.14	0.80
82:CG:41:ILE:O	82:CG:41:ILE:CG2	2.30	0.80
82:CG:154:LEU:CD1	82:CG:204:PHE:CD2	2.64	0.80
85:A5:294:G:O6	85:A5:315:G:O2'	1.98	0.80
3:AU:108:PRO:O	3:AU:108:PRO:CD	2.30	0.80
4:AK:36:ALA:O	4:AK:38:LYS:CD	2.29	0.80
5:AO:125:LYS:NZ	20:Aa:57:SER:O	2.14	0.80
7:AM:31:LEU:HD12	7:AM:33:ARG:HB3	1.64	0.80
7:AM:77:ILE:HG23	7:AM:78:LYS:N	1.97	0.80
18:AY:29:HIS:HD1	18:AY:67:GLY:C	1.87	0.80
24:Ae:23:GLU:OE1	24:Ae:23:GLU:CA	2.27	0.80
26:AJ:89:GLU:CB	26:AJ:92:MET:SD	2.68	0.80
28:AC:259:THR:HG23	28:AC:261:PHE:CA	2.10	0.80
30:AF:42:LYS:O	30:AF:42:LYS:CE	2.28	0.80
31:AH:28:LEU:HG	31:AH:32:MET:HE3	1.64	0.80
31:AH:36:LEU:O	31:AH:36:LEU:CD1	2.29	0.80
31:AH:53:VAL:HG22	31:AH:57:ARG:C	2.05	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:122:LEU:HD12	31:AH:123:THR:HG23	1.63	0.80
33:AI:128:LYS:HE2	33:AI:133:GLU:OE1	1.81	0.80
35:Ah:148:GLY:O	35:Ah:150:GLU:HG3	1.82	0.80
38:Cz:28:PHE:CB	38:Cz:29:LEU:N	2.40	0.80
38:Cz:30:GLU:CD	38:Cz:210:MET:CA	2.54	0.80
38:Cz:49:PHE:CE2	38:Cz:190:LEU:HD22	2.17	0.80
39:Cq:120:GLU:N	39:Cq:163:THR:HG22	1.97	0.80
42:CL:9:VAL:HG12	42:CL:10:LEU:N	1.94	0.80
46:CN:4:TYR:HE2	82:CG:141:ASN:ND2	1.79	0.80
46:CN:99:GLN:NE2	46:CN:130:PHE:HE1	1.79	0.80
46:CN:135:ILE:HG23	46:CN:142:ILE:CD1	2.12	0.80
46:CN:180:PHE:HB2	46:CN:184:ILE:HD11	1.61	0.80
51:CA:202:VAL:HG13	51:CA:217:GLN:HB3	1.64	0.80
53:CT:145:GLY:O	53:CT:146:LYS:CG	2.30	0.80
56:CX:80:PRO:HD2	61:Ch:33:VAL:HG22	1.64	0.80
56:CX:81:LEU:HG	56:CX:99:ILE:HG13	1.62	0.80
56:CX:120:ASP:C	56:CX:121:VAL:HG23	2.06	0.80
57:CY:3:PHE:CE1	74:CC:222:ARG:NH2	2.49	0.80
59:CZ:73:LYS:HE3	59:CZ:75:TYR:CE1	2.15	0.80
60:Cr:71:ARG:NH1	60:Cr:71:ARG:CB	2.44	0.80
63:CB:52:GLY:C	63:CB:78:ILE:HG12	2.06	0.80
63:CB:159:VAL:HG13	63:CB:184:GLN:NE2	1.97	0.80
65:Cc:37:MET:HG3	65:Cc:42:LYS:HB3	1.62	0.80
65:Cc:78:ASN:HB3	65:Cc:90:ARG:HB2	1.64	0.80
66:Cd:24:GLU:CD	66:Cd:122:VAL:CG2	2.55	0.80
67:Ce:5:ARG:NH1	67:Ce:93:LYS:HD2	1.96	0.80
69:Cg:69:LYS:C	69:Cg:72:LYS:HE3	2.07	0.80
74:CC:303:ARG:HH11	74:CC:303:ARG:HG3	1.45	0.80
78:Co:75:PRO:CD	78:Co:75:PRO:O	2.30	0.80
79:CJ:13:ARG:HB2	79:CJ:136:ARG:HD3	1.63	0.80
80:CH:1:MET:O	80:CH:2:LYS:HG2	1.80	0.80
82:CG:139:GLY:CA	85:A5:149:A:O2'	2.26	0.80
84:Cu:7:TYR:CZ	84:Cu:42:VAL:CG1	2.64	0.80
2:Ag:48:ASP:OD2	2:Ag:49:GLU:CB	2.28	0.80
3:AU:73:GLY:O	3:AU:74:SER:O	1.99	0.80
4:AK:4:PRO:HG2	4:AK:7:ASN:CB	2.11	0.80
7:AM:28:HIS:O	7:AM:29:ASP:HB2	1.82	0.80
10:AN:38:TYR:CD1	10:AN:78:LYS:CD	2.65	0.80
17:AV:17:CYS:HG	17:AV:56:CYS:HB3	0.98	0.80
17:AV:24:ILE:O	17:AV:24:ILE:CG2	2.30	0.80
18:AY:108:LYS:O	18:AY:111:LYS:HG3	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Aa:34:LYS:O	20:Aa:35:ALA:HB3	1.81	0.80
25:Af:85:TYR:O	25:Af:86:THR:CG2	2.30	0.80
28:AC:166:ARG:NH1	28:AC:255:LEU:CD1	2.25	0.80
28:AC:190:SER:O	28:AC:227:ARG:NH1	2.15	0.80
29:AG:179:LEU:HD12	29:AG:179:LEU:C	2.07	0.80
34:AQ:85:ARG:NH1	34:AQ:117:ARG:HB3	1.97	0.80
40:CK:61:LYS:CE	40:CK:72:GLU:HA	2.11	0.80
42:CL:156:PRO:O	42:CL:157:VAL:CG1	2.30	0.80
43:CV:75:LYS:CG	43:CV:75:LYS:O	2.30	0.80
44:CM:79:LYS:O	44:CM:79:LYS:CD	2.30	0.80
46:CN:116:LEU:HD22	46:CN:135:ILE:HD11	0.81	0.80
48:CD:21:ARG:CG	48:CD:24:ARG:HH12	1.95	0.80
48:CD:34:LYS:O	48:CD:38:ILE:HG12	1.80	0.80
49:CQ:76:GLU:O	49:CQ:78:LYS:CE	2.30	0.80
50:CR:179:ALA:O	50:CR:183:GLU:HG3	1.81	0.80
51:CA:21:LYS:HZ1	85:A5:2449:A:H5'	1.47	0.80
52:CS:19:THR:OG1	52:CS:20:PRO:CG	2.30	0.80
58:CW:86:SER:OG	58:CW:89:ASP:CG	2.23	0.80
60:Cr:90:LEU:HB2	60:Cr:118:LEU:CD1	2.11	0.80
64:CF:30:ILE:HG21	64:CF:34:ARG:HH21	0.98	0.80
69:Cg:78:TYR:O	69:Cg:81:SER:CB	2.30	0.80
81:CE:274:VAL:HG13	81:CE:275:PHE:N	1.96	0.80
1:Az:114:GLU:OE1	1:Az:532:PRO:HG2	1.82	0.80
1:Az:846:GLU:CA	1:Az:846:GLU:OE2	2.30	0.80
3:AU:50:VAL:HG22	3:AU:52:GLY:N	1.97	0.80
8:AS:11:HIS:CD2	8:AS:23:ARG:HH22	1.96	0.80
8:AS:39:ARG:CZ	14:AT:38:LYS:CD	2.59	0.80
8:AS:94:LYS:CD	8:AS:95:TYR:O	2.29	0.80
9:Ad:13:LYS:CE	9:Ad:14:PHE:HE2	1.86	0.80
14:AT:90:SER:C	14:AT:91:HIS:CD2	2.59	0.80
16:AA:190:SER:O	16:AA:191:ARG:CG	2.30	0.80
18:AY:99:LYS:HE3	18:AY:99:LYS:C	2.07	0.80
25:Af:102:VAL:HG12	25:Af:103:LEU:HB2	1.64	0.80
25:Af:103:LEU:O	25:Af:103:LEU:CD2	2.30	0.80
26:AJ:16:PRO:CD	26:AJ:44:TRP:CZ2	2.64	0.80
30:AF:112:LEU:HA	30:AF:177:LEU:CD1	2.11	0.80
34:AQ:9:SER:CB	34:AQ:26:LYS:CD	2.59	0.80
35:Ah:297:GLN:O	35:Ah:297:GLN:CG	2.30	0.80
40:CK:52:ASP:HB2	40:CK:53:TRP:NE1	1.96	0.80
42:CL:31:ARG:HH12	42:CL:34:ARG:HB3	1.47	0.80
42:CL:167:ARG:NE	42:CL:167:ARG:HA	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:197:THR:O	46:CN:198:LEU:CD2	2.30	0.80
47:CI:103:LEU:O	47:CI:104:SER:CB	2.30	0.80
48:CD:104:LEU:CD2	48:CD:247:ILE:CG1	2.59	0.80
56:CX:101:ASP:OD2	56:CX:103:LYS:HB2	1.83	0.80
58:CW:80:ARG:HD2	58:CW:81:ALA:N	1.96	0.80
60:Cr:16:PHE:CG	60:Cr:28:GLU:OE1	2.30	0.80
60:Cr:55:ALA:CB	60:Cr:62:VAL:HG23	2.11	0.80
60:Cr:72:LYS:O	60:Cr:72:LYS:CE	2.30	0.80
60:Cr:122:LYS:O	60:Cr:125:MET:C	2.24	0.80
61:Ch:5:LYS:C	61:Ch:56:ARG:NH2	2.37	0.80
63:CB:150:PHE:O	63:CB:153:MET:N	2.14	0.80
63:CB:235:TRP:CD1	63:CB:267:ALA:HB1	2.17	0.80
65:Cc:74:TYR:CD2	65:Cc:81:LEU:CD2	2.63	0.80
66:Cd:112:THR:OG1	66:Cd:113:THR:CA	2.30	0.80
67:Ce:21:ILE:CD1	67:Ce:21:ILE:O	2.30	0.80
68:Cf:76:ARG:HE	68:Cf:85:ARG:HD2	1.47	0.80
70:CI:11:LEU:CG	70:CI:12:ASN:OD1	2.30	0.80
74:CC:28:PHE:HZ	74:CC:131:SER:OG	1.56	0.80
74:CC:286:ASN:C	74:CC:287:THR:HG22	2.07	0.80
1:Az:226:LYS:HZ1	1:Az:356:ILE:CD1	1.94	0.79
1:Az:776:VAL:HG13	1:Az:780:PRO:HB2	1.61	0.79
9:Ad:36:LEU:HD11	23:AD:12:VAL:HG13	1.55	0.79
19:AZ:70:PRO:CD	19:AZ:71:ALA:H	1.93	0.79
20:Aa:49:ALA:HB1	20:Aa:53:ILE:HD11	1.64	0.79
21:Ab:16:LYS:CD	21:Ab:16:LYS:N	2.44	0.79
26:AJ:117:LEU:O	26:AJ:119:LEU:N	2.15	0.79
27:AE:19:MET:HE2	36:B2:846:G:C2'	2.07	0.79
28:AC:157:LEU:C	28:AC:160:LEU:HD23	2.07	0.79
29:AG:142:ARG:CD	29:AG:147:LEU:CB	2.59	0.79
29:AG:155:GLN:O	29:AG:156:TYR:HD1	1.64	0.79
30:AF:138:ALA:HB2	30:AF:200:ALA:O	1.82	0.79
39:Cq:131:GLY:CA	40:CK:35:LEU:CD2	2.61	0.79
39:Cq:215:PHE:CD1	83:Cs:14:LEU:HD21	2.16	0.79
39:Cq:259:PHE:CB	39:Cq:264:LYS:HG3	2.11	0.79
43:CV:89:ARG:HG3	43:CV:95:PHE:CD2	2.17	0.79
48:CD:107:ARG:NH2	48:CD:120:GLU:O	2.13	0.79
48:CD:164:LYS:CE	48:CD:168:ASP:OD2	2.21	0.79
51:CA:220:GLY:O	51:CA:221:LYS:HB2	1.80	0.79
52:CS:2:LYS:HE3	52:CS:39:VAL:HB	1.64	0.79
53:CT:80:VAL:N	53:CT:83:LYS:O	2.15	0.79
56:CX:99:ILE:HD11	56:CX:129:ARG:NH1	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:114:LYS:HG2	56:CX:120:ASP:OD1	1.81	0.79
60:Cr:77:TYR:CB	60:Cr:79:ARG:NE	2.39	0.79
67:Ce:6:PRO:HG2	67:Ce:93:LYS:HB2	1.64	0.79
74:CC:236:ASN:OD1	74:CC:238:LEU:N	2.13	0.79
78:Co:76:ASN:HA	78:Co:77:CYS:C	2.06	0.79
82:CG:183:ILE:CG2	82:CG:183:ILE:O	2.28	0.79
83:Cs:41:PRO:HA	83:Cs:44:PRO:CG	2.12	0.79
83:Ct:41:PRO:O	83:Ct:44:PRO:HG2	1.80	0.79
1:Az:27:HIS:CD2	1:Az:27:HIS:C	2.60	0.79
1:Az:93:LYS:O	1:Az:93:LYS:CD	2.30	0.79
1:Az:191:THR:CG2	1:Az:192:TYR:CE2	2.65	0.79
1:Az:647:ARG:HG2	1:Az:647:ARG:NH2	1.95	0.79
8:AS:34:LYS:CG	8:AS:103:LEU:HD21	2.10	0.79
13:AP:77:LYS:O	13:AP:78:THR:CG2	2.31	0.79
16:AA:76:VAL:HG21	16:AA:90:PHE:CE2	2.15	0.79
25:Af:103:LEU:C	25:Af:105:TYR:H	1.85	0.79
28:AC:169:TYR:CE1	28:AC:177:PRO:CG	2.64	0.79
29:AG:10:THR:O	58:CW:80:ARG:NE	2.15	0.79
34:AQ:105:LYS:CD	34:AQ:105:LYS:O	2.30	0.79
36:B2:127:C:OP1	36:B2:180:G:N2	2.14	0.79
38:Cz:26:ARG:HD3	38:Cz:210:MET:SD	2.22	0.79
38:Cz:58:THR:HG23	38:Cz:60:ARG:N	1.96	0.79
39:Cq:220:ARG:NH1	39:Cq:223:ALA:HB3	1.91	0.79
40:CK:60:VAL:HG12	40:CK:75:PRO:HG2	1.63	0.79
40:CK:160:VAL:N	40:CK:163:PRO:HG3	1.97	0.79
42:CL:128:PRO:HB3	61:Ch:117:ARG:NH2	1.97	0.79
44:CM:47:ARG:CZ	52:CS:73:LEU:HD13	2.13	0.79
47:CI:38:ARG:CG	47:CI:83:ASP:CB	2.59	0.79
47:CI:99:ILE:CD1	47:CI:123:GLN:CD	2.54	0.79
47:CI:112:GLN:O	47:CI:113:THR:CG2	2.30	0.79
48:CD:223:PHE:CG	48:CD:226:TYR:HE2	1.99	0.79
49:CQ:88:ASP:CG	49:CQ:108:ARG:HB3	2.07	0.79
50:CR:179:ALA:O	50:CR:183:GLU:CG	2.30	0.79
52:CS:59:GLY:O	52:CS:60:GLU:CG	2.29	0.79
57:CY:82:ILE:CG2	57:CY:83:GLU:O	2.20	0.79
60:Cr:122:LYS:N	60:Cr:123:PRO:HD3	1.96	0.79
62:Cb:75:LEU:HD13	62:Cb:75:LEU:C	2.07	0.79
64:CF:182:TYR:CD1	64:CF:200:ARG:CZ	2.65	0.79
66:Cd:54:MET:CE	66:Cd:62:VAL:HG23	2.11	0.79
67:Ce:5:ARG:NH1	67:Ce:93:LYS:CD	2.45	0.79
70:Ci:11:LEU:CA	70:Ci:12:ASN:OD1	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:22:VAL:CG1	74:CC:22:VAL:O	2.30	0.79
74:CC:40:VAL:HG22	74:CC:115:VAL:CG1	2.12	0.79
74:CC:310:HIS:HB2	74:CC:311:ARG:HG2	1.64	0.79
80:CH:56:ARG:NE	80:CH:58:ASP:OD2	2.15	0.79
81:CE:231:GLU:O	81:CE:231:GLU:HG3	1.80	0.79
81:CE:282:TYR:CD2	81:CE:282:TYR:N	2.48	0.79
82:CG:207:VAL:HG21	82:CG:215:LEU:CD1	2.11	0.79
85:A5:2473:A:C2	85:A5:2506:G:C8	2.70	0.79
1:Az:402:VAL:HG22	1:Az:403:PRO:CD	2.10	0.79
1:Az:442:LEU:HD21	1:Az:444:LEU:HD11	1.64	0.79
1:Az:607:ARG:CG	1:Az:701:ARG:HD3	2.12	0.79
1:Az:755:VAL:CG1	1:Az:808:ALA:HB2	2.12	0.79
1:Az:849:PRO:CD	1:Az:849:PRO:O	2.30	0.79
4:AK:36:ALA:O	4:AK:38:LYS:CG	2.29	0.79
7:AM:124:ILE:HA	7:AM:127:TYR:CE2	2.17	0.79
9:Ad:13:LYS:HG3	9:Ad:14:PHE:CD2	2.06	0.79
11:AL:82:MET:HE2	36:B2:373:G:H4'	1.65	0.79
13:AP:127:LYS:O	13:AP:127:LYS:CE	2.30	0.79
14:AT:11:GLN:HE21	14:AT:62:ARG:NH1	1.81	0.79
16:AA:66:VAL:HG13	16:AA:186:ARG:HD2	1.65	0.79
16:AA:149:ASN:HB2	16:AA:165:ASN:ND2	1.98	0.79
23:AD:148:LYS:NZ	35:Ah:177:ARG:HD3	1.98	0.79
26:AJ:180:LYS:CD	26:AJ:180:LYS:O	2.30	0.79
27:AE:21:ASP:CG	27:AE:24:THR:CG2	2.51	0.79
27:AE:23:LEU:C	27:AE:24:THR:HG23	2.05	0.79
28:AC:64:THR:HG23	28:AC:90:GLU:CD	2.06	0.79
30:AF:14:THR:OG1	34:AQ:56:LEU:HB3	1.72	0.79
30:AF:36:GLN:CG	30:AF:37:ASP:OD2	2.30	0.79
30:AF:44:LYS:O	30:AF:44:LYS:CE	2.30	0.79
38:Cz:30:GLU:CD	38:Cz:210:MET:N	2.40	0.79
41:CO:26:GLN:HE21	52:CS:166:ARG:HG2	1.46	0.79
45:Ca:73:VAL:HG21	45:Ca:108:TYR:CG	2.17	0.79
46:CN:17:ASP:HB3	82:CG:237:TRP:HH2	1.46	0.79
47:CI:17:TYR:CZ	47:CI:23:CYS:SG	2.73	0.79
49:CQ:154:LYS:CD	49:CQ:155:ALA:O	2.30	0.79
53:CT:142:ARG:O	53:CT:143:THR:CB	2.29	0.79
56:CX:40:ILE:HD11	82:CG:50:ASP:HA	1.64	0.79
58:CW:80:ARG:CD	58:CW:81:ALA:N	2.45	0.79
60:Cr:10:VAL:CG1	60:Cr:14:SER:HB3	2.12	0.79
60:Cr:28:GLU:OE2	60:Cr:29:PRO:CG	2.29	0.79
60:Cr:55:ALA:HB3	60:Cr:62:VAL:CG2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:3:LYS:O	61:Ch:4:ILE:CG1	2.30	0.79
64:CF:24:ASN:O	64:CF:25:PHE:C	2.24	0.79
65:Cc:58:SER:OG	69:Cg:96:LEU:HD13	1.81	0.79
69:Cg:69:LYS:HA	69:Cg:72:LYS:HE3	0.80	0.79
74:CC:29:LYS:N	74:CC:29:LYS:CD	2.42	0.79
74:CC:64:ALA:HB3	74:CC:92:PHE:CZ	2.18	0.79
74:CC:142:HIS:H	74:CC:182:LYS:HE2	1.45	0.79
81:CE:47:ASN:HD22	81:CE:48:PRO:HD3	1.47	0.79
81:CE:112:MET:N	81:CE:113:PRO:HD3	1.97	0.79
81:CE:127:SER:HA	81:CE:129:GLY:N	1.98	0.79
82:CG:28:VAL:HG13	82:CG:32:PHE:CD2	2.18	0.79
1:Az:60:ARG:CG	1:Az:60:ARG:O	2.30	0.79
1:Az:60:ARG:CD	1:Az:60:ARG:O	2.29	0.79
1:Az:259:LYS:O	1:Az:288:THR:HG21	1.83	0.79
5:AO:75:MET:SD	5:AO:118:ALA:HB2	2.22	0.79
6:AX:139:GLU:O	6:AX:141:PRO:CD	2.30	0.79
13:AP:41:GLN:HG3	13:AP:84:ILE:HG23	1.57	0.79
13:AP:49:LEU:CD1	13:AP:51:ARG:CZ	2.61	0.79
13:AP:49:LEU:CD1	13:AP:51:ARG:HH21	1.95	0.79
16:AA:4:ALA:HB1	17:AV:39:VAL:HG21	1.63	0.79
16:AA:5:LEU:HD13	16:AA:6:ASP:H	1.41	0.79
21:Ab:63:LEU:O	21:Ab:63:LEU:CG	2.29	0.79
23:AD:195:THR:O	23:AD:197:LYS:CG	2.30	0.79
29:AG:164:LYS:O	29:AG:166:GLY:N	2.16	0.79
30:AF:14:THR:HG23	34:AQ:56:LEU:HD22	1.49	0.79
31:AH:75:ILE:HG23	31:AH:76:GLN:H	1.47	0.79
34:AQ:19:ALA:HB2	34:AQ:75:GLY:CA	2.13	0.79
35:Ah:170:ARG:O	35:Ah:170:ARG:CD	2.30	0.79
38:Cz:49:PHE:HZ	38:Cz:190:LEU:HA	1.45	0.79
39:Cq:105:ASN:O	39:Cq:106:LYS:CG	2.30	0.79
39:Cq:261:LEU:HB2	84:Cv:1:MET:HG3	1.65	0.79
40:CK:86:LYS:O	40:CK:104:ILE:HG21	1.82	0.79
40:CK:94:LYS:CG	40:CK:96:LYS:CG	2.50	0.79
41:CO:181:ALA:C	44:CM:126:GLU:HG2	2.08	0.79
48:CD:146:LEU:HD11	48:CD:163:LEU:HD22	0.85	0.79
49:CQ:15:ARG:O	49:CQ:15:ARG:CD	2.30	0.79
49:CQ:33:ARG:CG	49:CQ:48:LEU:HD11	2.12	0.79
53:CT:145:GLY:O	53:CT:146:LYS:CE	2.30	0.79
57:CY:124:LYS:O	57:CY:127:GLN:CG	2.30	0.79
60:Cr:42:GLY:O	60:Cr:43:LEU:CG	2.29	0.79
63:CB:154:LYS:O	63:CB:154:LYS:CD	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:10:SER:O	65:Cc:11:LEU:CD2	2.30	0.79
66:Cd:111:VAL:CG1	66:Cd:112:THR:H	1.70	0.79
67:Ce:5:ARG:CD	67:Ce:93:LYS:HE3	2.13	0.79
67:Ce:6:PRO:HG2	67:Ce:93:LYS:CB	2.11	0.79
69:Cg:5:LEU:HD22	69:Cg:32:TYR:HD1	1.40	0.79
69:Cg:37:LYS:CD	69:Cg:60:ARG:HH12	1.96	0.79
69:Cg:37:LYS:CB	69:Cg:60:ARG:CZ	2.61	0.79
70:Ci:11:LEU:CB	70:Ci:12:ASN:OD1	2.30	0.79
79:CJ:90:ARG:CZ	79:CJ:108:GLY:N	2.46	0.79
81:CE:172:LEU:HD11	85:A5:4940:C:O2'	1.82	0.79
81:CE:181:LEU:HD12	81:CE:261:ILE:CD1	2.12	0.79
82:CG:41:ILE:O	82:CG:43:GLN:CG	2.29	0.79
1:Az:40:VAL:C	1:Az:43:ALA:HB2	2.07	0.79
1:Az:693:CYS:HA	1:Az:839:ARG:HG3	1.61	0.79
1:Az:845:LYS:HZ3	1:Az:846:GLU:CG	1.89	0.79
2:Ag:143:GLN:OE1	2:Ag:144:ASP:CB	2.29	0.79
2:Ag:143:GLN:NE2	2:Ag:144:ASP:N	2.30	0.79
5:AO:30:VAL:HG13	5:AO:47:LEU:HD23	1.63	0.79
7:AM:100:PRO:O	7:AM:101:ARG:CD	2.30	0.79
8:AS:23:ARG:HD3	19:AZ:48:VAL:HB	1.62	0.79
8:AS:47:LYS:HZ1	8:AS:78:LYS:CB	1.94	0.79
8:AS:59:LEU:CD1	8:AS:59:LEU:N	2.37	0.79
8:AS:91:LYS:HD2	13:AP:15:PHE:CZ	2.18	0.79
11:AL:76:VAL:HG12	11:AL:125:ILE:HD12	1.64	0.79
13:AP:41:GLN:NE2	13:AP:84:ILE:CG2	2.43	0.79
14:AT:99:VAL:O	14:AT:103:VAL:HG23	1.82	0.79
14:AT:124:THR:HG23	14:AT:126:GLN:H	1.47	0.79
15:AB:57:ILE:O	15:AB:57:ILE:CG2	2.29	0.79
15:AB:105:LEU:O	15:AB:106:THR:CG2	2.30	0.79
17:AV:67:ASP:O	17:AV:70:LEU:N	2.14	0.79
18:AY:9:THR:CB	18:AY:48:TYR:OH	2.29	0.79
18:AY:44:LEU:CD1	18:AY:48:TYR:CD2	2.66	0.79
19:AZ:44:LEU:CD1	19:AZ:44:LEU:O	2.30	0.79
23:AD:47:GLU:OE2	23:AD:85:GLU:OE2	1.99	0.79
23:AD:70:THR:CB	23:AD:86:LEU:HD13	2.12	0.79
23:AD:198:ILE:CG1	23:AD:198:ILE:O	2.30	0.79
32:AW:6:VAL:HG13	32:AW:29:PRO:HD2	1.63	0.79
34:AQ:38:PRO:O	34:AQ:41:MET:HG2	1.82	0.79
38:Cz:65:VAL:HG12	38:Cz:82:ILE:HD11	1.65	0.79
39:Cq:24:TYR:CB	39:Cq:25:PRO:CD	2.29	0.79
39:Cq:95:LEU:HD21	83:Cs:49:LYS:HZ2	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:9:GLU:HG3	40:CK:10:ILE:H	0.64	0.79
40:CK:123:ARG:CG	40:CK:124:GLU:N	2.43	0.79
41:CO:185:VAL:HG13	44:CM:122:ILE:HG22	1.64	0.79
48:CD:199:ILE:CG2	48:CD:200:MET:HE2	2.11	0.79
52:CS:173:ASN:ND2	52:CS:173:ASN:C	2.30	0.79
55:CU:66:SER:O	55:CU:67:LYS:CG	2.30	0.79
60:Cr:10:VAL:HG12	60:Cr:14:SER:HB3	1.64	0.79
63:CB:356:LYS:C	63:CB:358:ARG:N	2.39	0.79
67:Ce:5:ARG:CD	67:Ce:93:LYS:HG2	2.13	0.79
70:CI:43:MET:HE1	82:CG:173:LEU:CG	2.11	0.79
73:CI:26:TRP:CZ3	73:CI:27:ILE:HD13	2.18	0.79
74:CC:213:GLU:CG	74:CC:213:GLU:O	2.30	0.79
81:CE:120:ASP:O	81:CE:121:VAL:CB	2.26	0.79
81:CE:223:ARG:H	81:CE:223:ARG:HD2	0.68	0.79
81:CE:232:ILE:O	81:CE:232:ILE:CD1	2.29	0.79
1:Az:604:MET:HE1	1:Az:729:LEU:HD23	1.63	0.79
14:AT:31:PRO:HB3	14:AT:33:TRP:CD2	2.17	0.79
15:AB:52:THR:HG22	15:AB:58:ALA:CB	2.12	0.79
15:AB:113:MET:HE3	15:AB:211:PHE:CZ	2.18	0.79
16:AA:103:PHE:HZ	16:AA:136:GLU:OE1	1.60	0.79
16:AA:186:ARG:CD	16:AA:186:ARG:O	2.31	0.79
18:AY:45:ALA:HA	18:AY:55:ILE:CD1	2.12	0.79
23:AD:94:ARG:O	23:AD:101:GLN:NE2	2.16	0.79
23:AD:218:LEU:O	23:AD:218:LEU:CD2	2.30	0.79
24:Ae:39:ASN:OD1	24:Ae:43:VAL:HG21	1.82	0.79
26:AJ:37:LEU:HD11	26:AJ:42:GLU:HB3	0.81	0.79
28:AC:180:VAL:HG13	28:AC:181:PRO:CD	2.12	0.79
29:AG:33:ALA:N	29:AG:52:ILE:HG23	1.98	0.79
30:AF:49:LEU:HD12	30:AF:50:PRO:CD	2.11	0.79
32:AW:38:LEU:HA	32:AW:41:MET:CE	2.12	0.79
32:AW:128:PHE:HE1	32:AW:130:PHE:CD2	2.01	0.79
33:AI:206:LYS:HD2	33:AI:207:GLY:N	1.97	0.79
34:AQ:6:PRO:HG2	34:AQ:6:PRO:O	1.81	0.79
38:Cz:143:ASN:HA	38:Cz:146:ALA:CB	2.13	0.79
39:Cq:116:ILE:HG22	39:Cq:166:LYS:CE	2.13	0.79
39:Cq:221:ASN:OD1	84:Cu:55:ILE:CG2	2.29	0.79
41:CO:151:ALA:O	41:CO:155:THR:HG23	1.82	0.79
44:CM:14:TYR:CE1	44:CM:22:GLY:O	2.35	0.79
44:CM:52:PHE:O	44:CM:55:MET:HG2	1.83	0.79
47:CI:74:LYS:HE3	47:CI:74:LYS:HA	1.62	0.79
49:CQ:55:ARG:HD3	49:CQ:58:ARG:HH22	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:154:LYS:CB	49:CQ:155:ALA:O	2.30	0.79
50:CR:45:ILE:HA	50:CR:50:ILE:CG2	2.12	0.79
50:CR:101:ILE:HA	50:CR:104:ARG:HD3	1.64	0.79
59:CZ:5:MET:O	59:CZ:6:LYS:CB	2.29	0.79
59:CZ:92:ASP:HA	59:CZ:117:LYS:HZ1	1.44	0.79
63:CB:17:LEU:HD23	63:CB:19:ARG:HD3	1.65	0.79
63:CB:59:GLU:OE2	63:CB:70:LYS:C	2.26	0.79
63:CB:155:LYS:HA	63:CB:155:LYS:HE3	1.64	0.79
64:CF:29:LYS:CG	64:CF:30:ILE:HD12	2.11	0.79
66:Cd:25:TYR:CE1	66:Cd:56:GLU:OE2	2.35	0.79
67:Ce:12:ILE:HD13	67:Ce:12:ILE:N	1.96	0.79
74:CC:143:ARG:CZ	74:CC:182:LYS:HD2	2.12	0.79
74:CC:318:PRO:O	74:CC:319:LEU:C	2.24	0.79
77:Cp:47:MET:HE1	77:Cp:56:HIS:C	2.06	0.79
82:CG:160:ASP:CG	82:CG:187:LYS:CD	2.55	0.79
82:CG:179:VAL:O	82:CG:179:VAL:CG1	2.29	0.79
1:Az:73:THR:N	1:Az:104:ASP:CG	2.25	0.79
1:Az:411:TYR:HD1	1:Az:411:TYR:N	1.80	0.79
2:Ag:143:GLN:O	2:Ag:146:SER:HB2	1.83	0.79
3:AU:48:LEU:N	3:AU:48:LEU:CD2	2.29	0.79
3:AU:56:MET:HE1	3:AU:88:LEU:CG	2.12	0.79
8:AS:36:VAL:CG2	8:AS:36:VAL:O	2.30	0.79
10:AN:21:SER:O	10:AN:22:VAL:CG1	2.30	0.79
13:AP:12:PHE:CE2	79:CJ:88:LYS:CG	2.66	0.79
17:AV:19:ALA:O	32:AW:23:ARG:NH2	2.15	0.79
17:AV:53:TYR:OH	17:AV:76:ASP:CG	2.26	0.79
18:AY:99:LYS:O	18:AY:99:LYS:CG	2.29	0.79
23:AD:74:GLN:HE21	23:AD:75:LYS:HD3	1.45	0.79
26:AJ:170:PRO:CB	26:AJ:174:LYS:CE	2.60	0.79
28:AC:256:TRP:CG	32:AW:68:ARG:HH11	2.00	0.79
32:AW:36:ARG:O	32:AW:39:THR:OG1	1.99	0.79
33:AI:138:ASN:O	33:AI:139:LYS:O	1.99	0.79
39:Cq:149:ARG:C	39:Cq:151:THR:N	2.40	0.79
40:CK:142:ASN:OD1	40:CK:143:VAL:N	2.15	0.79
40:CK:159:ALA:O	40:CK:163:PRO:CG	2.31	0.79
42:CL:10:LEU:HD22	42:CL:10:LEU:N	1.92	0.79
44:CM:13:ALA:CB	44:CM:55:MET:HE3	2.12	0.79
44:CM:35:ARG:N	44:CM:52:PHE:CE2	2.50	0.79
44:CM:86:TRP:O	44:CM:92:ALA:CB	2.30	0.79
47:CI:28:ASP:HB3	47:CI:32:ARG:HH21	1.45	0.79
48:CD:232:THR:HB	48:CD:233:PRO:HD3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:271:MET:SD	48:CD:275:GLN:OE1	2.41	0.79
52:CS:173:ASN:HD22	52:CS:174:THR:H	1.30	0.79
54:CP:29:THR:O	54:CP:32:THR:HG23	1.82	0.79
60:Cr:20:ARG:CB	67:Ce:77:PHE:CD1	2.64	0.79
61:Ch:3:LYS:O	61:Ch:4:ILE:CD1	2.29	0.79
63:CB:140:GLU:HG2	63:CB:144:LYS:HZ2	0.67	0.79
64:CF:101:VAL:HG11	64:CF:106:ARG:HG3	1.65	0.79
66:Cd:57:MET:O	66:Cd:59:THR:N	2.15	0.79
66:Cd:85:ARG:N	66:Cd:114:PHE:HZ	1.81	0.79
69:Cg:53:LEU:HD12	69:Cg:53:LEU:N	1.97	0.79
70:Ci:11:LEU:HD13	70:Ci:11:LEU:N	1.97	0.79
74:CC:130:ALA:HB3	74:CC:246:VAL:HG13	1.63	0.79
80:CH:50:LYS:NZ	80:CH:50:LYS:H	1.80	0.79
80:CH:104:VAL:C	80:CH:105:ILE:HD13	2.06	0.79
81:CE:106:VAL:HG21	81:CE:107:VAL:HG13	1.62	0.79
81:CE:286:LEU:HB2	81:CE:287:VAL:HB	1.64	0.79
82:CG:74:LEU:O	82:CG:240:ASN:N	2.14	0.79
82:CG:117:ARG:O	82:CG:121:LYS:HB3	1.81	0.79
82:CG:121:LYS:C	82:CG:121:LYS:HD3	2.07	0.79
85:A5:5025:C:C6	85:A5:5026:U:H5'	2.17	0.79
1:Az:226:LYS:HZ2	1:Az:356:ILE:HD12	1.45	0.79
8:AS:138:THR:HA	8:AS:141:ARG:HH22	1.42	0.79
13:AP:5:GLU:N	13:AP:10:ARG:NH1	2.30	0.79
16:AA:118:GLU:HB2	28:AC:65:LYS:NZ	1.98	0.79
18:AY:36:PRO:HD2	18:AY:39:GLU:OE1	1.83	0.79
18:AY:55:ILE:CB	18:AY:75:ILE:HG12	2.12	0.79
27:AE:229:GLY:HA2	27:AE:235:TRP:CD1	2.18	0.79
29:AG:63:MET:CE	29:AG:106:LEU:HD13	2.12	0.79
29:AG:186:GLN:O	29:AG:190:ARG:HG3	1.82	0.79
33:AI:136:ILE:CG2	33:AI:139:LYS:CE	2.43	0.79
38:Cz:46:ASP:HA	38:Cz:48:ARG:NH1	1.97	0.79
39:Cq:28:PHE:HE2	39:Cq:98:ILE:HB	1.46	0.79
39:Cq:212:HIS:HE1	83:Cs:59:LEU:HD11	1.48	0.79
40:CK:140:GLY:O	40:CK:141:CYS:CB	2.30	0.79
44:CM:63:LYS:CE	44:CM:63:LYS:O	2.30	0.79
46:CN:150:TRP:CZ2	46:CN:151:ILE:HD11	2.18	0.79
49:CQ:99:LYS:HE3	49:CQ:121:LEU:HD11	1.63	0.79
51:CA:254:GLU:HB3	51:CA:255:LYS:HB3	1.62	0.79
52:CS:153:PRO:O	52:CS:153:PRO:CD	2.30	0.79
55:CU:125:GLU:O	55:CU:126:ASP:CG	2.26	0.79
56:CX:142:PRO:HD2	56:CX:143:ASP:N	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:106:GLU:CB	58:CW:110:ARG:NH1	2.45	0.79
59:CZ:68:ILE:HG22	59:CZ:119:GLU:HG3	1.64	0.79
60:Cr:28:GLU:OE2	60:Cr:29:PRO:CD	2.29	0.79
63:CB:108:GLU:HB2	63:CB:137:TRP:CE2	2.18	0.79
79:CJ:103:GLY:CA	79:CJ:157:ILE:HG22	2.09	0.79
80:CH:111:LEU:CD2	80:CH:127:ARG:HA	2.12	0.79
82:CG:146:LEU:HD12	82:CG:147:VAL:HG23	1.62	0.79
83:Cs:43:TRP:N	83:Cs:44:PRO:CD	2.45	0.79
1:Az:634:TYR:O	1:Az:638:LYS:HB2	1.83	0.79
1:Az:849:PRO:O	1:Az:849:PRO:CG	2.29	0.79
2:Ag:119:GLN:HE21	2:Ag:121:VAL:CG2	1.88	0.79
4:AK:65:ARG:HB3	4:AK:65:ARG:CZ	2.12	0.79
5:AO:20:GLN:CD	5:AO:21:VAL:O	2.26	0.79
6:AX:129:SER:OG	6:AX:132:ALA:HB3	1.83	0.79
8:AS:136:THR:OG1	36:B2:1521:C:P	2.40	0.79
14:AT:91:HIS:CD2	14:AT:91:HIS:N	2.50	0.79
16:AA:76:VAL:CG2	16:AA:90:PHE:CE2	2.66	0.79
18:AY:37:LYS:O	18:AY:40:ILE:HG23	1.82	0.79
23:AD:197:LYS:N	23:AD:199:GLY:N	2.30	0.79
23:AD:218:LEU:CD1	23:AD:220:THR:CG2	2.47	0.79
27:AE:130:PHE:CG	27:AE:138:HIS:CE1	2.70	0.79
27:AE:182:MET:HE2	27:AE:228:ILE:HG21	1.63	0.79
28:AC:184:VAL:CG2	28:AC:243:ALA:O	2.31	0.79
29:AG:130:PRO:HA	58:CW:81:ALA:HB1	1.64	0.79
33:AI:104:ILE:O	33:AI:105:ASP:CG	2.25	0.79
34:AQ:105:LYS:CD	34:AQ:105:LYS:C	2.54	0.79
39:Cq:107:VAL:O	39:Cq:107:VAL:CG1	2.30	0.79
39:Cq:248:VAL:CG1	84:Cv:4:VAL:HG12	2.03	0.79
40:CK:61:LYS:HD3	40:CK:73:VAL:O	1.83	0.79
42:CL:178:ALA:HB2	45:Ca:134:GLU:OE2	1.82	0.79
48:CD:178:LYS:HG2	48:CD:183:TYR:CE2	2.18	0.79
49:CQ:154:LYS:CA	49:CQ:155:ALA:HB3	2.11	0.79
50:CR:119:MET:HA	50:CR:119:MET:CE	2.11	0.79
52:CS:18:PRO:O	52:CS:19:THR:CG2	2.30	0.79
57:CY:90:ALA:C	57:CY:91:ASN:OD1	2.25	0.79
58:CW:63:GLN:OE1	58:CW:67:ILE:HD11	1.83	0.79
59:CZ:87:VAL:CG2	59:CZ:127:ASN:OD1	2.30	0.79
60:Cr:20:ARG:HB2	67:Ce:77:PHE:HE1	1.48	0.79
66:Cd:116:ASN:ND2	66:Cd:116:ASN:N	2.29	0.79
70:Ci:81:ILE:HG22	70:Ci:85:ARG:HH11	1.48	0.79
79:CJ:135:GLY:HA2	79:CJ:139:PHE:CE2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:109:GLY:C	80:CH:128:MET:CB	2.34	0.79
81:CE:51:VAL:HA	81:CE:54:ILE:HD12	1.63	0.79
82:CG:104:PRO:CA	82:CG:105:GLU:OE2	2.30	0.79
82:CG:160:ASP:CG	82:CG:187:LYS:CB	2.55	0.79
83:Cs:16:LEU:HD23	83:Cs:31:LEU:HD11	1.63	0.79
1:Az:73:THR:CA	1:Az:104:ASP:HB3	2.13	0.79
1:Az:150:ARG:CZ	1:Az:194:GLU:CD	2.56	0.79
1:Az:794:PHE:N	1:Az:794:PHE:HD1	1.76	0.79
2:Ag:49:GLU:O	2:Ag:50:THR:CG2	2.30	0.79
6:AX:35:ALA:HA	6:AX:39:ASN:ND2	1.98	0.79
6:AX:40:PRO:CB	6:AX:81:ILE:HD11	2.13	0.79
7:AM:33:ARG:HG3	7:AM:33:ARG:HH11	1.45	0.79
12:AR:122:PRO:CB	12:AR:123:THR:OG1	2.30	0.79
18:AY:120:THR:HB	18:AY:122:LYS:HE3	1.61	0.79
19:AZ:77:LEU:O	19:AZ:78:LYS:CG	2.30	0.79
19:AZ:92:LEU:HD21	19:AZ:109:TYR:CD1	2.18	0.79
23:AD:197:LYS:CB	23:AD:198:ILE:HG13	2.02	0.79
25:Af:103:LEU:C	25:Af:105:TYR:N	2.32	0.79
26:AJ:88:ASP:O	26:AJ:92:MET:HG3	1.80	0.79
28:AC:65:LYS:CD	28:AC:266:TYR:CD1	2.38	0.79
29:AG:137:ARG:HD2	29:AG:140:ARG:HE	1.47	0.79
29:AG:180:VAL:O	29:AG:181:THR:CG2	2.30	0.79
30:AF:127:ARG:O	30:AF:127:ARG:CD	2.31	0.79
32:AW:101:PHE:HA	32:AW:113:HIS:CE1	2.16	0.79
33:AI:136:ILE:C	33:AI:139:LYS:HG3	2.03	0.79
41:CO:9:LEU:HD11	52:CS:167:PHE:CE1	2.13	0.79
41:CO:26:GLN:NE2	52:CS:166:ARG:CG	2.46	0.79
42:CL:21:ARG:O	46:CN:197:THR:HG22	1.82	0.79
42:CL:156:PRO:C	42:CL:157:VAL:HG13	2.07	0.79
46:CN:78:GLY:O	46:CN:79:ALA:C	2.25	0.79
49:CQ:15:ARG:O	49:CQ:15:ARG:CG	2.28	0.79
52:CS:75:VAL:HG13	52:CS:76:LYS:CA	2.13	0.79
54:CP:8:PRO:HG2	54:CP:9:GLU:N	1.97	0.79
54:CP:71:ALA:CB	54:CP:74:LYS:HE3	2.12	0.79
54:CP:125:MET:HB2	54:CP:141:SER:HG	1.45	0.79
57:CY:40:GLN:CA	57:CY:43:ASN:OD1	2.31	0.79
58:CW:23:ARG:CZ	58:CW:29:PHE:HE2	1.95	0.79
66:Cd:91:LYS:O	66:Cd:103:TYR:HB2	1.83	0.79
66:Cd:112:THR:OG1	66:Cd:113:THR:CG2	2.29	0.79
68:Cf:28:LEU:CD1	68:Cf:101:ILE:HD11	2.12	0.79
71:Cj:36:LYS:HZ1	71:Cj:57:ASN:HD21	1.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:171:ASP:OD1	80:CH:173:ARG:CD	2.30	0.79
81:CE:83:LYS:HB3	81:CE:84:LYS:C	2.07	0.79
1:Az:49:ALA:CA	1:Az:55:ARG:NH2	2.46	0.78
1:Az:226:LYS:HZ1	1:Az:356:ILE:HD12	1.47	0.78
1:Az:271:GLY:O	1:Az:272:LYS:CG	2.30	0.78
1:Az:331:GLU:OE2	1:Az:335:LEU:HD23	1.80	0.78
2:Ag:274:VAL:O	2:Ag:274:VAL:CG2	2.31	0.78
7:AM:67:ALA:HB1	25:Af:108:VAL:HG21	1.64	0.78
7:AM:94:ILE:O	7:AM:101:ARG:NH1	2.16	0.78
11:AL:10:TYR:CD2	11:AL:12:LYS:CE	2.66	0.78
12:AR:91:LEU:CB	12:AR:92:ASP:CA	2.61	0.78
18:AY:37:LYS:O	18:AY:40:ILE:HG22	1.83	0.78
28:AC:66:LEU:O	28:AC:66:LEU:CD2	2.30	0.78
47:CI:9:TYR:CD1	47:CI:97:ILE:HG23	2.17	0.78
49:CQ:19:LYS:O	49:CQ:19:LYS:HD2	1.83	0.78
52:CS:138:ARG:HD3	52:CS:139:ARG:HH12	1.47	0.78
53:CT:11:THR:HB	53:CT:15:PHE:CE2	2.18	0.78
53:CT:33:ILE:H	53:CT:33:ILE:CD1	1.76	0.78
53:CT:50:LYS:O	53:CT:51:GLY:O	2.00	0.78
54:CP:24:VAL:HG13	54:CP:90:PHE:CZ	2.16	0.78
56:CX:146:ALA:CA	56:CX:149:VAL:HG12	2.13	0.78
59:CZ:4:PHE:O	59:CZ:6:LYS:HG2	1.83	0.78
59:CZ:90:PRO:HD2	59:CZ:91:LEU:H	1.47	0.78
60:Cr:71:ARG:CD	60:Cr:79:ARG:HB3	2.14	0.78
60:Cr:90:LEU:HD11	60:Cr:114:ALA:HB2	1.62	0.78
64:CF:161:LYS:CD	64:CF:209:TRP:HZ3	1.96	0.78
79:CJ:15:LEU:HD23	79:CJ:165:TRP:CD1	2.18	0.78
80:CH:50:LYS:N	80:CH:50:LYS:HE3	1.98	0.78
1:Az:751:CYS:SG	1:Az:755:VAL:HB	2.22	0.78
1:Az:845:LYS:HZ1	1:Az:845:LYS:HA	1.48	0.78
2:Ag:109:LEU:HD12	2:Ag:151:VAL:O	1.83	0.78
6:AX:54:LYS:HD2	6:AX:91:LEU:CD1	2.13	0.78
7:AM:31:LEU:HD11	7:AM:109:VAL:HB	1.63	0.78
11:AL:8:ARG:NH1	33:AI:85:ALA:CB	2.46	0.78
16:AA:28:THR:O	16:AA:47:TYR:HE2	1.66	0.78
16:AA:202:TYR:O	16:AA:203:PHE:CD1	2.37	0.78
17:AV:79:VAL:HG13	17:AV:80:SER:H	1.48	0.78
18:AY:84:LYS:O	18:AY:84:LYS:CD	2.31	0.78
20:Aa:26:CYS:HG	20:Aa:77:CYS:HG	1.25	0.78
23:AD:158:ILE:HD13	23:AD:189:MET:SD	2.24	0.78
26:AJ:170:PRO:HA	26:AJ:174:LYS:HZ1	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:207:ALA:O	28:AC:210:PRO:CD	2.31	0.78
31:AH:122:LEU:CD1	31:AH:123:THR:H	1.92	0.78
32:AW:11:LEU:C	32:AW:14:ILE:HG12	2.07	0.78
33:AI:82:VAL:HG11	33:AI:202:ILE:HD11	1.64	0.78
34:AQ:6:PRO:O	34:AQ:6:PRO:CD	2.28	0.78
34:AQ:58:LEU:HD22	34:AQ:111:ILE:HD12	1.61	0.78
38:Cz:40:ASN:OD1	38:Cz:198:TRP:HB3	1.83	0.78
39:Cq:113:ALA:HB1	39:Cq:169:ALA:HA	1.63	0.78
40:CK:1:MET:H3	40:CK:2:PRO:CB	1.94	0.78
41:CO:16:LEU:CD2	41:CO:138:LEU:HD22	2.00	0.78
41:CO:16:LEU:HD22	41:CO:41:ILE:HD13	1.58	0.78
42:CL:156:PRO:O	42:CL:157:VAL:CG2	2.30	0.78
46:CN:71:ARG:NH2	46:CN:73:ARG:HA	1.98	0.78
48:CD:57:ASN:C	48:CD:58:ARG:HG2	2.08	0.78
52:CS:152:PHE:HB2	52:CS:153:PRO:HD3	1.65	0.78
53:CT:4:THR:CG2	53:CT:9:ARG:HD2	2.12	0.78
55:CU:21:PHE:HE1	55:CU:80:LYS:CE	1.78	0.78
62:Cb:37:PRO:C	62:Cb:39:PHE:N	2.38	0.78
63:CB:298:LEU:N	63:CB:300:LYS:HE3	1.98	0.78
65:Cc:58:SER:CB	69:Cg:96:LEU:HD13	2.13	0.78
65:Cc:102:SER:CB	65:Cc:104:ILE:HD12	2.13	0.78
74:CC:147:VAL:HA	74:CC:175:LYS:CB	2.14	0.78
77:Cp:52:VAL:HG13	77:Cp:68:ALA:CB	2.12	0.78
85:A5:3972:A:H4'	85:A5:3973:G:O5'	1.83	0.78
85:A5:4936:G:C8	85:A5:4936:G:H5''	2.19	0.78
1:Az:271:GLY:O	1:Az:272:LYS:CD	2.30	0.78
1:Az:420:LEU:O	1:Az:420:LEU:CG	2.30	0.78
1:Az:648:LYS:HD3	1:Az:664:ASP:O	1.83	0.78
2:Ag:125:ARG:HD2	12:AR:33:ARG:NH1	1.96	0.78
6:AX:105:PHE:CE2	6:AX:119:ARG:C	2.61	0.78
8:AS:39:ARG:NH2	14:AT:38:LYS:CD	2.45	0.78
10:AN:55:ARG:HH21	21:Ab:51:GLN:CD	1.91	0.78
10:AN:62:GLN:CB	10:AN:65:PHE:CD2	2.64	0.78
11:AL:22:ARG:NH1	33:AI:157:LYS:CG	2.45	0.78
11:AL:78:THR:HG22	11:AL:87:VAL:O	1.82	0.78
11:AL:147:LYS:CD	11:AL:148:ALA:N	2.45	0.78
12:AR:88:VAL:CG1	12:AR:88:VAL:O	2.32	0.78
13:AP:12:PHE:CE2	79:CJ:88:LYS:HG3	2.18	0.78
13:AP:125:PRO:O	13:AP:126:VAL:CG2	2.32	0.78
14:AT:31:PRO:C	14:AT:33:TRP:N	2.37	0.78
15:AB:52:THR:HG21	82:CG:264:LYS:HZ3	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:183:LEU:HB2	16:AA:189:ILE:CD1	2.13	0.78
19:AZ:94:LYS:HD3	19:AZ:95:GLY:N	1.99	0.78
23:AD:48:ILE:HG21	23:AD:86:LEU:HG	1.63	0.78
23:AD:226:GLN:O	23:AD:227:LYS:CB	2.31	0.78
24:Ae:53:LYS:CD	24:Ae:54:GLY:N	2.44	0.78
27:AE:130:PHE:CB	27:AE:138:HIS:NE2	2.45	0.78
29:AG:50:VAL:CG1	29:AG:111:LEU:CD2	2.61	0.78
31:AH:147:LYS:CE	31:AH:153:LEU:CD1	2.61	0.78
38:Cz:41:TYR:HB3	38:Cz:163:LEU:CD2	2.07	0.78
39:Cq:246:LYS:HA	39:Cq:249:LEU:CD2	2.13	0.78
44:CM:30:VAL:HG12	52:CS:145:PHE:HE1	1.49	0.78
48:CD:146:LEU:CG	48:CD:163:LEU:HD13	2.13	0.78
48:CD:188:LYS:O	48:CD:189:GLU:CG	2.30	0.78
50:CR:15:LEU:O	50:CR:16:ARG:HB2	1.84	0.78
54:CP:30:ARG:HD2	54:CP:63:TYR:CE2	2.15	0.78
57:CY:11:ARG:HH12	74:CC:200:ARG:HH11	0.79	0.78
59:CZ:15:ALA:HA	59:CZ:19:SER:HB3	1.65	0.78
66:Cd:64:ILE:CD1	66:Cd:68:LEU:CD2	2.07	0.78
66:Cd:91:LYS:HB3	66:Cd:103:TYR:CD2	2.17	0.78
74:CC:77:PRO:HG2	74:CC:92:PHE:CD2	2.18	0.78
80:CH:19:THR:OG1	80:CH:26:ILE:HG12	1.82	0.78
80:CH:122:TYR:CE2	80:CH:124:ARG:HG3	2.17	0.78
81:CE:46:ARG:NH1	81:CE:47:ASN:H	1.80	0.78
81:CE:145:THR:CG2	81:CE:148:THR:HB	2.13	0.78
82:CG:34:LYS:CE	82:CG:34:LYS:O	2.30	0.78
82:CG:76:VAL:HB	82:CG:81:ASN:OD1	1.83	0.78
83:Ct:22:THR:H	83:Ct:27:LYS:NZ	1.81	0.78
1:Az:846:GLU:OE2	1:Az:846:GLU:HA	1.82	0.78
2:Ag:298:LEU:HD21	2:Ag:310:TRP:HB2	1.66	0.78
4:AK:4:PRO:HB2	4:AK:7:ASN:H	1.49	0.78
5:AO:47:LEU:CB	15:AB:67:PHE:CD1	2.66	0.78
6:AX:52:LEU:CD1	6:AX:53:GLU:HG2	2.14	0.78
6:AX:52:LEU:HD11	6:AX:71:ARG:HB2	1.64	0.78
7:AM:98:GLY:C	7:AM:100:PRO:HD3	2.08	0.78
8:AS:8:LYS:CA	19:AZ:49:LEU:HD23	2.13	0.78
8:AS:139:THR:O	8:AS:141:ARG:N	2.17	0.78
10:AN:125:LEU:HD11	10:AN:129:TYR:OH	1.83	0.78
12:AR:115:SER:O	12:AR:116:ASN:CG	2.27	0.78
15:AB:61:GLY:O	15:AB:65:ARG:NE	2.16	0.78
22:Ac:60:GLU:OE2	30:AF:204:ARG:NE	2.17	0.78
23:AD:158:ILE:HD12	23:AD:189:MET:CE	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:92:LEU:HG	34:AQ:96:TYR:HE2	1.46	0.78
36:B2:1214:A:H61	36:B2:1685:U:H3	1.32	0.78
38:Cz:18:LEU:CD1	38:Cz:180:VAL:HB	2.08	0.78
39:Cq:93:GLU:O	39:Cq:94:ASP:HB2	1.83	0.78
39:Cq:215:PHE:CZ	83:Cs:56:ILE:CG2	2.66	0.78
39:Cq:233:THR:C	84:Cu:1:MET:CG	2.54	0.78
41:CO:9:LEU:CD1	52:CS:167:PHE:HE1	1.97	0.78
51:CA:250:LYS:HG2	51:CA:252:VAL:CG2	2.10	0.78
52:CS:59:GLY:O	52:CS:60:GLU:HG3	1.83	0.78
53:CT:80:VAL:HG13	53:CT:81:LYS:N	1.98	0.78
53:CT:128:LEU:HD23	53:CT:128:LEU:N	1.95	0.78
59:CZ:30:ASP:OD2	59:CZ:31:ASP:CB	2.30	0.78
60:Cr:16:PHE:CD2	60:Cr:28:GLU:HG2	2.18	0.78
60:Cr:20:ARG:HG2	67:Ce:77:PHE:HE1	1.38	0.78
60:Cr:49:VAL:HA	60:Cr:64:ILE:O	1.82	0.78
65:Cc:13:SER:O	65:Cc:17:ARG:CG	2.29	0.78
67:Ce:27:ARG:HG2	67:Ce:28:TYR:CZ	2.18	0.78
70:Ci:11:LEU:C	70:Ci:12:ASN:CG	2.46	0.78
74:CC:263:LEU:O	74:CC:264:TYR:CD1	2.36	0.78
75:Cm:127:VAL:CG2	75:Cm:128:LYS:O	2.30	0.78
1:Az:113:SER:CA	1:Az:499:PHE:CB	2.42	0.78
5:AO:94:HIS:CG	5:AO:127:GLY:O	2.35	0.78
6:AX:142:ARG:HB2	6:AX:142:ARG:NH1	1.93	0.78
7:AM:44:LYS:CD	35:Ah:303:LYS:NZ	2.45	0.78
8:AS:12:ILE:O	8:AS:12:ILE:CG2	2.30	0.78
10:AN:12:SER:C	10:AN:13:GLN:HG3	2.06	0.78
10:AN:21:SER:O	10:AN:22:VAL:CG2	2.30	0.78
12:AR:100:PRO:CB	12:AR:119:VAL:CG2	2.62	0.78
15:AB:134:LEU:HD12	15:AB:219:LYS:HB2	1.65	0.78
21:Ab:26:GLN:HG3	21:Ab:27:SER:N	1.98	0.78
23:AD:117:ARG:HG3	35:Ah:186:ASP:OD1	1.84	0.78
23:AD:192:TRP:C	23:AD:196:GLY:H	1.90	0.78
23:AD:198:ILE:O	23:AD:198:ILE:CD1	2.31	0.78
23:AD:217:ILE:O	23:AD:218:LEU:HD22	1.82	0.78
26:AJ:179:LYS:CG	26:AJ:182:GLN:OE1	2.30	0.78
29:AG:142:ARG:HH21	29:AG:152:ASP:H	1.31	0.78
33:AI:140:LYS:CD	33:AI:141:ARG:H	1.96	0.78
39:Cq:221:ASN:HA	84:Cu:55:ILE:HG23	1.65	0.78
41:CO:177:LEU:HA	44:CM:130:LEU:HD21	1.65	0.78
44:CM:12:VAL:HG22	44:CM:58:THR:HG1	1.46	0.78
48:CD:273:LEU:HD13	48:CD:277:LYS:NZ	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:16:CYS:C	52:CS:59:GLY:HA2	2.09	0.78
52:CS:19:THR:OG1	52:CS:20:PRO:CB	2.30	0.78
53:CT:132:PRO:O	53:CT:134:PRO:HD3	1.83	0.78
57:CY:83:GLU:OE2	57:CY:83:GLU:CA	2.28	0.78
60:Cr:15:SER:HB3	74:CC:139:SER:O	1.84	0.78
63:CB:78:ILE:CD1	63:CB:78:ILE:O	2.29	0.78
63:CB:80:GLU:OE1	63:CB:171:LEU:CB	2.30	0.78
65:Cc:11:LEU:HB2	65:Cc:12:GLU:C	2.08	0.78
66:Cd:57:MET:HB3	66:Cd:90:ARG:HH11	1.46	0.78
67:Ce:6:PRO:CB	67:Ce:93:LYS:HE2	2.12	0.78
69:Cg:76:ARG:HH12	69:Cg:84:ALA:HB2	0.61	0.78
70:Ci:81:ILE:CG2	70:Ci:85:ARG:HH11	1.96	0.78
78:Co:75:PRO:CB	78:Co:76:ASN:OD1	2.30	0.78
83:Ct:19:ASP:CG	84:Cv:32:ILE:HD12	2.07	0.78
1:Az:829:SER:CB	1:Az:832:SER:HB3	2.12	0.78
6:AX:27:TYR:CE2	6:AX:31:HIS:CD2	2.70	0.78
6:AX:71:ARG:HE	6:AX:82:THR:HG23	1.46	0.78
7:AM:35:ILE:HB	7:AM:61:TYR:CE2	2.19	0.78
7:AM:51:VAL:HA	7:AM:77:ILE:CG2	2.13	0.78
8:AS:80:PRO:HB2	8:AS:82:TRP:CD1	2.18	0.78
21:Ab:46:VAL:CG2	21:Ab:63:LEU:HD21	2.13	0.78
23:AD:195:THR:O	23:AD:195:THR:CG2	2.30	0.78
23:AD:201:LYS:HA	23:AD:201:LYS:CE	2.14	0.78
26:AJ:138:ARG:NH1	26:AJ:156:HIS:NE2	2.31	0.78
27:AE:38:LEU:O	27:AE:38:LEU:CD1	2.30	0.78
27:AE:145:ARG:HG2	27:AE:145:ARG:NH1	1.94	0.78
27:AE:204:SER:O	27:AE:205:PHE:HB2	1.84	0.78
28:AC:108:LYS:HD3	28:AC:233:LEU:CD2	1.74	0.78
29:AG:153:VAL:O	29:AG:155:GLN:N	2.16	0.78
31:AH:149:ASP:O	31:AH:151:SER:N	2.16	0.78
32:AW:38:LEU:HD23	32:AW:41:MET:CE	2.14	0.78
33:AI:206:LYS:HG3	33:AI:207:GLY:N	1.97	0.78
40:CK:2:PRO:HD3	40:CK:6:ASP:HB2	1.66	0.78
44:CM:19:PRO:CD	44:CM:20:HIS:N	2.46	0.78
45:Ca:70:CYS:HA	45:Ca:109:TYR:CD2	2.19	0.78
48:CD:76:CYS:SG	48:CD:109:LEU:CG	2.72	0.78
48:CD:90:VAL:HG21	48:CD:226:TYR:CZ	2.18	0.78
48:CD:104:LEU:HD21	48:CD:247:ILE:CD1	2.13	0.78
58:CW:8:PHE:CZ	58:CW:49:ILE:HD12	2.18	0.78
59:CZ:5:MET:O	59:CZ:6:LYS:HG2	1.82	0.78
60:Cr:130:ARG:O	60:Cr:134:THR:CG2	2.21	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:117:ARG:NH1	63:CB:177:LYS:HE3	1.99	0.78
68:Cf:10:ILE:O	68:Cf:28:LEU:HD12	1.84	0.78
72:Ck:31:ASN:N	72:Ck:31:ASN:ND2	2.29	0.78
74:CC:122:TYR:CD1	74:CC:280:PRO:HG3	2.03	0.78
79:CJ:87:LEU:HD21	79:CJ:166:PHE:CZ	2.17	0.78
81:CE:54:ILE:HG22	81:CE:55:GLY:H	1.47	0.78
81:CE:98:GLY:HA2	81:CE:99:ASP:CB	2.10	0.78
81:CE:149:ILE:CA	81:CE:163:VAL:CG1	2.62	0.78
81:CE:274:VAL:HG12	81:CE:275:PHE:N	1.97	0.78
1:Az:3:ASN:O	1:Az:46:ILE:CG1	2.32	0.78
1:Az:616:ASP:CG	1:Az:621:GLU:CB	2.56	0.78
2:Ag:215:GLN:OE1	2:Ag:231:ASP:OD1	2.02	0.78
5:AO:143:LYS:HG2	5:AO:143:LYS:O	1.81	0.78
8:AS:120:HIS:CE1	13:AP:123:TYR:HE2	1.57	0.78
11:AL:22:ARG:HD3	33:AI:155:ASN:O	1.80	0.78
15:AB:62:LEU:HD21	15:AB:96:CYS:SG	2.23	0.78
27:AE:153:LEU:CD2	29:AG:216:ARG:NH1	2.46	0.78
39:Cq:216:LEU:CD2	83:Cs:59:LEU:O	2.31	0.78
39:Cq:251:LEU:HD13	84:Cv:8:LEU:HD21	1.64	0.78
39:Cq:269:LEU:C	39:Cq:272:PRO:CD	2.55	0.78
41:CO:55:LEU:CD2	41:CO:58:LEU:HD12	2.11	0.78
46:CN:35:ALA:N	46:CN:65:ARG:NH1	2.32	0.78
47:CI:164:LYS:NZ	47:CI:166:HIS:CE1	2.51	0.78
48:CD:47:PRO:HB3	48:CD:66:TYR:HE1	0.61	0.78
50:CR:63:CYS:SG	50:CR:64:ARG:N	2.56	0.78
53:CT:68:THR:HG1	53:CT:71:ALA:HB3	1.44	0.78
54:CP:39:MET:CE	54:CP:43:LYS:HE2	2.13	0.78
56:CX:76:ILE:CG2	56:CX:112:ALA:CB	2.61	0.78
59:CZ:7:PRO:HD2	59:CZ:8:GLY:N	1.88	0.78
60:Cr:5:LEU:O	60:Cr:9:VAL:HG23	1.82	0.78
60:Cr:90:LEU:HD22	60:Cr:118:LEU:HD11	1.18	0.78
61:Ch:8:ASP:O	61:Ch:12:LYS:HE3	1.83	0.78
61:Ch:81:LEU:HD23	61:Ch:84:ARG:HD2	1.66	0.78
63:CB:298:LEU:CA	63:CB:300:LYS:HG2	2.14	0.78
63:CB:299:ILE:O	63:CB:299:ILE:HG22	1.82	0.78
63:CB:378:ARG:HH11	63:CB:378:ARG:HG3	0.73	0.78
66:Cd:57:MET:HB3	66:Cd:90:ARG:NE	1.98	0.78
74:CC:91:ALA:CA	74:CC:92:PHE:CD2	2.66	0.78
74:CC:306:ARG:O	74:CC:307:LYS:HG2	1.84	0.78
83:Cs:22:THR:H	83:Cs:27:LYS:HZ2	1.32	0.78
1:Az:56:PHE:CE2	1:Az:455:GLY:C	2.52	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:425:LEU:HD23	1:Az:426:LYS:N	1.98	0.78
2:Ag:258:ILE:HG13	2:Ag:267:VAL:HB	1.65	0.78
7:AM:71:GLU:N	7:AM:71:GLU:CD	2.39	0.78
16:AA:198:MET:N	16:AA:198:MET:SD	2.57	0.78
18:AY:111:LYS:NZ	18:AY:115:LYS:HZ1	1.82	0.78
22:Ac:67:ARG:O	22:Ac:68:LEU:CD2	2.30	0.78
23:AD:22:ASN:OD1	23:AD:37:VAL:HG22	1.84	0.78
25:Af:135:HIS:HB3	25:Af:138:ARG:CB	2.13	0.78
35:Ah:152:SER:CB	35:Ah:154:ASP:N	2.46	0.78
39:Cq:233:THR:HA	84:Cu:1:MET:CB	2.12	0.78
39:Cq:277:ALA:C	39:Cq:280:PRO:CG	2.57	0.78
45:Ca:42:ARG:NH2	49:CQ:178:ARG:NH2	2.30	0.78
45:Ca:120:GLN:HG2	45:Ca:121:PRO:N	1.97	0.78
47:CI:69:ARG:HH11	47:CI:70:ILE:HG13	1.49	0.78
47:CI:191:ILE:CG2	47:CI:192:PRO:HD3	2.14	0.78
49:CQ:34:PHE:HD2	74:CC:293:LEU:HD22	1.01	0.78
52:CS:10:TYR:CE1	52:CS:66:GLN:HG2	2.18	0.78
57:CY:89:LYS:CD	57:CY:90:ALA:H	1.97	0.78
59:CZ:11:VAL:HG13	59:CZ:81:MET:O	1.82	0.78
63:CB:47:LEU:CD1	63:CB:344:VAL:CG1	2.59	0.78
64:CF:219:GLY:O	64:CF:220:MET:CB	2.32	0.78
65:Cc:28:VAL:HG11	65:Cc:33:GLN:CB	2.13	0.78
66:Cd:100:ASN:O	66:Cd:101:LYS:C	2.27	0.78
66:Cd:105:LEU:HD12	66:Cd:105:LEU:O	1.84	0.78
67:Ce:74:PHE:CD2	67:Ce:96:CYS:SG	2.77	0.78
69:Cg:43:LYS:O	69:Cg:43:LYS:HG2	1.82	0.78
74:CC:28:PHE:O	74:CC:129:ALA:HB1	1.82	0.78
74:CC:303:ARG:HH12	74:CC:306:ARG:H	1.30	0.78
80:CH:93:ARG:HE	80:CH:143:GLU:HG3	1.49	0.78
83:Cs:11:TYR:HB3	84:Cu:9:LEU:CG	2.13	0.78
1:Az:449:ARG:HB3	1:Az:473:VAL:CG1	2.13	0.78
1:Az:829:SER:OG	1:Az:832:SER:CA	2.32	0.78
2:Ag:298:LEU:CD1	2:Ag:310:TRP:CE3	2.63	0.78
5:AO:62:VAL:CG2	5:AO:72:TYR:OH	2.32	0.78
12:AR:40:ILE:HB	23:AD:209:SER:OG	1.83	0.78
12:AR:98:VAL:CG1	12:AR:102:THR:OG1	2.32	0.78
18:AY:114:MET:C	18:AY:124:ASN:ND2	2.41	0.78
22:Ac:49:PRO:HD3	30:AF:145:ARG:HD3	1.62	0.78
26:AJ:12:THR:O	26:AJ:48:PHE:CD2	2.37	0.78
30:AF:112:LEU:O	30:AF:116:ILE:CD1	2.31	0.78
30:AF:154:LEU:HD11	30:AF:155:CYS:SG	2.23	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:82:VAL:CG1	33:AI:202:ILE:CD1	2.62	0.78
39:Cq:91:THR:OG1	39:Cq:98:ILE:CD1	2.32	0.78
42:CL:182:LEU:HD21	45:Ca:146:LEU:HD13	1.65	0.78
44:CM:33:GLN:NE2	80:CH:61:TRP:CD1	2.51	0.78
45:Ca:3:SER:HA	45:Ca:6:ARG:CG	2.13	0.78
46:CN:35:ALA:HA	46:CN:65:ARG:CZ	2.14	0.78
46:CN:46:ASP:C	46:CN:49:ARG:O	2.26	0.78
48:CD:51:MET:SD	48:CD:173:ILE:HD11	2.23	0.78
48:CD:223:PHE:CB	48:CD:226:TYR:CD2	2.67	0.78
52:CS:72:PRO:O	52:CS:100:LEU:HD12	1.80	0.78
56:CX:66:PRO:HD2	56:CX:66:PRO:O	1.84	0.78
57:CY:49:ILE:HD11	57:CY:101:PRO:HB2	1.63	0.78
57:CY:53:ASP:OD2	57:CY:109:LEU:CD2	2.31	0.78
60:Cr:42:GLY:O	60:Cr:43:LEU:HD12	1.84	0.78
60:Cr:81:THR:C	60:Cr:82:ILE:CD1	2.56	0.78
70:Ci:53:TYR:CE2	70:Ci:54:GLU:HG3	2.19	0.78
72:Ck:25:ILE:CD1	72:Ck:34:PHE:CE2	2.66	0.78
73:Cl:26:TRP:CZ2	73:Cl:27:ILE:HD11	2.19	0.78
76:Cn:22:GLN:HB2	76:Cn:25:LYS:HE3	1.66	0.78
1:Az:402:VAL:O	1:Az:403:PRO:O	2.02	0.78
1:Az:502:SER:HB2	1:Az:504:VAL:HG13	0.81	0.78
1:Az:556:ILE:O	1:Az:560:ASP:CG	2.27	0.78
6:AX:67:ARG:HG2	6:AX:115:ILE:HG12	1.66	0.78
7:AM:13:ASP:HB2	7:AM:16:THR:HB	0.81	0.78
10:AN:131:THR:C	10:AN:132:LYS:HD2	2.08	0.78
12:AR:105:MET:O	12:AR:109:LEU:HD12	1.84	0.78
24:Ae:51:LYS:O	35:Ah:185:PHE:CE2	2.36	0.78
26:AJ:46:VAL:HG11	26:AJ:106:LEU:HD11	1.66	0.78
29:AG:184:VAL:HG12	29:AG:188:LYS:NZ	1.99	0.78
31:AH:122:LEU:CD1	31:AH:123:THR:CG2	2.62	0.78
31:AH:144:ILE:CD1	32:AW:52:ILE:HD13	2.13	0.78
35:Ah:296:ILE:HG23	35:Ah:298:ASN:HD22	1.48	0.78
39:Cq:60:MET:CE	39:Cq:88:PHE:CD2	2.66	0.78
39:Cq:113:ALA:CB	39:Cq:169:ALA:HA	2.13	0.78
39:Cq:183:PHE:O	39:Cq:184:SER:CB	2.29	0.78
40:CK:59:THR:O	40:CK:60:VAL:HG23	1.83	0.78
40:CK:160:VAL:C	40:CK:163:PRO:HG2	1.96	0.78
41:CO:19:LEU:HD23	41:CO:80:PHE:CE1	2.18	0.78
41:CO:65:ASN:ND2	41:CO:68:ARG:NE	2.31	0.78
41:CO:118:MET:HE1	52:CS:169:THR:CA	2.14	0.78
41:CO:125:LYS:HG3	41:CO:129:LEU:HD22	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:9:VAL:O	42:CL:10:LEU:HD22	1.84	0.78
42:CL:64:VAL:HG11	45:Ca:127:LYS:NZ	1.98	0.78
44:CM:14:TYR:HE1	44:CM:22:GLY:O	1.67	0.78
45:Ca:127:LYS:HG2	45:Ca:128:PHE:CD2	2.19	0.78
49:CQ:61:LEU:CD2	49:CQ:140:SER:C	2.53	0.78
52:CS:12:VAL:HB	52:CS:44:PHE:CD1	2.19	0.78
53:CT:127:GLN:HE21	53:CT:128:LEU:N	1.80	0.78
56:CX:76:ILE:HD13	56:CX:104:ALA:HB2	1.66	0.78
58:CW:110:ARG:HE	58:CW:113:LYS:NZ	1.82	0.78
59:CZ:5:MET:CG	59:CZ:25:ILE:HD13	2.13	0.78
59:CZ:88:ASP:HB3	59:CZ:121:ARG:HH22	1.48	0.78
60:Cr:16:PHE:CD2	60:Cr:28:GLU:CD	2.62	0.78
60:Cr:113:ARG:O	60:Cr:117:ILE:HG13	1.80	0.78
61:Ch:85:PRO:HA	61:Ch:86:LYS:HZ1	1.48	0.78
67:Ce:16:ARG:HG3	67:Ce:17:THR:N	1.93	0.78
69:Cg:41:ALA:HB3	69:Cg:52:ARG:HD2	0.79	0.78
70:Ci:11:LEU:N	70:Ci:12:ASN:ND2	2.29	0.78
74:CC:322:LEU:HD22	74:CC:336:ARG:CZ	2.14	0.78
80:CH:129:ARG:HB3	80:CH:130:PRO:HD3	1.62	0.78
1:Az:6:VAL:O	1:Az:8:GLN:N	2.16	0.77
1:Az:114:GLU:OE1	1:Az:114:GLU:HA	1.82	0.77
1:Az:634:TYR:CD1	1:Az:638:LYS:HG2	2.19	0.77
1:Az:684:GLN:HG3	24:Ae:7:ALA:CB	2.14	0.77
1:Az:746:LEU:CD1	1:Az:785:LYS:HG2	2.13	0.77
5:AO:64:ALA:O	5:AO:66:ARG:N	2.14	0.77
7:AM:42:LEU:HD11	7:AM:69:LEU:CD2	2.15	0.77
7:AM:60:MET:HB3	25:Af:104:LYS:CD	2.14	0.77
14:AT:39:LEU:CD1	14:AT:99:VAL:HG21	2.14	0.77
14:AT:65:TYR:HA	14:AT:123:LEU:HD13	1.64	0.77
16:AA:39:TYR:HA	16:AA:50:ASN:HD21	1.48	0.77
21:Ab:73:LEU:HD13	21:Ab:79:PHE:CD2	2.18	0.77
27:AE:139:LEU:HD11	27:AE:154:ILE:HG21	1.65	0.77
28:AC:142:LYS:HD3	28:AC:157:LEU:HD11	1.65	0.77
29:AG:32:MET:CE	29:AG:63:MET:SD	2.72	0.77
30:AF:127:ARG:O	30:AF:127:ARG:CG	2.32	0.77
35:Ah:152:SER:HA	35:Ah:154:ASP:H	1.48	0.77
39:Cq:82:ILE:O	39:Cq:83:ARG:HD3	1.84	0.77
42:CL:62:PRO:CD	42:CL:71:ARG:NH2	2.47	0.77
44:CM:7:VAL:N	52:CS:152:PHE:H	1.82	0.77
44:CM:63:LYS:HE2	44:CM:63:LYS:O	1.84	0.77
48:CD:39:GLN:OE1	48:CD:40:ASP:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:95:TYR:OH	48:CD:195:HIS:CE1	2.34	0.77
49:CQ:138:LEU:C	49:CQ:139:LEU:HG	2.07	0.77
50:CR:132:PHE:HE1	50:CR:137:ILE:HG12	1.50	0.77
51:CA:219:ILE:HD13	51:CA:223:SER:HB3	1.65	0.77
54:CP:6:LEU:HD23	54:CP:116:HIS:CG	2.14	0.77
63:CB:54:THR:HG23	63:CB:76:VAL:HG21	1.66	0.77
67:Ce:22:ARG:NH1	67:Ce:31:ILE:CG2	2.23	0.77
79:CJ:9:GLU:O	79:CJ:10:ASN:CG	2.27	0.77
80:CH:93:ARG:NE	80:CH:143:GLU:CD	2.41	0.77
80:CH:105:ILE:HG21	80:CH:112:VAL:CB	2.12	0.77
80:CH:138:GLN:O	80:CH:139:ALA:HB3	1.84	0.77
82:CG:77:PRO:HB3	82:CG:237:TRP:CZ3	2.15	0.77
83:Cs:31:LEU:CD1	84:Cu:30:VAL:HG22	2.14	0.77
85:A5:1965:G:H5'	85:A5:4695:C:O2	1.83	0.77
1:Az:753:GLU:N	1:Az:782:PHE:CD1	2.52	0.77
4:AK:4:PRO:HG3	4:AK:7:ASN:ND2	1.99	0.77
5:AO:129:ILE:HG21	20:Aa:44:ILE:HG12	1.64	0.77
12:AR:27:ASP:O	12:AR:31:ASN:ND2	2.17	0.77
13:AP:10:ARG:HE	13:AP:11:THR:N	1.81	0.77
27:AE:174:LYS:O	27:AE:179:ASN:ND2	2.18	0.77
28:AC:130:ILE:HD13	28:AC:159:LYS:HG3	1.67	0.77
28:AC:210:PRO:CD	28:AC:236:PHE:HZ	1.92	0.77
29:AG:36:VAL:HG12	29:AG:37:ALA:N	1.94	0.77
29:AG:58:LYS:O	29:AG:59:GLN:HB2	1.84	0.77
38:Cz:204:LEU:HD23	38:Cz:205:TYR:N	2.00	0.77
41:CO:81:TRP:CZ3	41:CO:85:ARG:NH2	2.53	0.77
46:CN:7:ILE:CD1	82:CG:166:LEU:HD23	2.14	0.77
46:CN:47:LYS:C	46:CN:49:ARG:O	2.28	0.77
46:CN:64:ILE:HD13	46:CN:102:ALA:HB1	1.64	0.77
49:CQ:26:ARG:NH1	60:Cr:11:ARG:HH22	1.80	0.77
52:CS:95:ARG:NH1	52:CS:97:TYR:OH	2.18	0.77
56:CX:66:PRO:O	56:CX:66:PRO:CD	2.29	0.77
57:CY:42:TYR:HD1	57:CY:119:LEU:HD21	0.67	0.77
59:CZ:29:ILE:CD1	59:CZ:40:HIS:CD2	2.68	0.77
59:CZ:29:ILE:HG22	59:CZ:31:ASP:O	1.84	0.77
59:CZ:46:ILE:CG2	59:CZ:68:ILE:HD11	2.14	0.77
60:Cr:47:LYS:O	60:Cr:48:THR:HG23	1.83	0.77
64:CF:132:MET:O	64:CF:135:ILE:HG22	1.83	0.77
65:Cc:17:ARG:HG2	65:Cc:104:ILE:CG1	2.12	0.77
66:Cd:22:THR:HG22	66:Cd:89:SER:CB	2.14	0.77
67:Ce:37:LYS:CG	67:Ce:39:ARG:HH22	1.96	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:51:TYR:HD2	68:Cf:53:ALA:HB2	1.46	0.77
69:Cg:43:LYS:CB	69:Cg:51:GLY:O	2.33	0.77
72:Ck:24:LYS:HE2	72:Ck:67:LYS:HD2	1.66	0.77
78:Co:66:ILE:CD1	78:Co:85:ILE:CA	2.38	0.77
81:CE:144:ILE:HG23	81:CE:145:THR:N	1.99	0.77
82:CG:82:GLN:HG2	82:CG:233:ILE:CG2	2.14	0.77
84:Cv:27:LEU:CD1	84:Cv:39:LEU:HD21	2.14	0.77
1:Az:516:ASP:CG	1:Az:568:ILE:HG21	2.09	0.77
1:Az:610:PRO:HB2	1:Az:613:LEU:CG	2.10	0.77
2:Ag:40:ILE:CD1	2:Ag:80:SER:HB3	2.13	0.77
12:AR:105:MET:HG3	16:AA:48:ILE:HG22	1.64	0.77
13:AP:50:ARG:N	13:AP:51:ARG:HD2	1.99	0.77
13:AP:52:LYS:O	13:AP:52:LYS:CD	2.30	0.77
19:AZ:92:LEU:HD11	19:AZ:99:LEU:HD21	1.66	0.77
21:Ab:62:VAL:HG22	21:Ab:63:LEU:H	1.49	0.77
22:Ac:60:GLU:CD	22:Ac:60:GLU:H	1.92	0.77
27:AE:120:LYS:O	27:AE:164:LEU:CB	2.31	0.77
27:AE:208:VAL:HB	27:AE:225:ILE:HD11	0.80	0.77
28:AC:173:LYS:O	28:AC:173:LYS:CE	2.30	0.77
29:AG:131:ARG:H	58:CW:81:ALA:C	1.91	0.77
29:AG:184:VAL:HG12	29:AG:188:LYS:HE2	0.78	0.77
29:AG:188:LYS:HA	29:AG:191:ARG:CD	2.12	0.77
31:AH:157:HIS:O	31:AH:158:LEU:HD23	1.84	0.77
32:AW:7:LEU:HD23	32:AW:34:ILE:CG1	2.13	0.77
32:AW:14:ILE:HG13	32:AW:15:ASN:N	1.98	0.77
35:Ah:295:ALA:C	35:Ah:296:ILE:HG13	2.08	0.77
36:B2:688:U:H1'	36:B2:742:U:C4	2.18	0.77
36:B2:1522:A:C2	36:B2:1523:C:C5	2.73	0.77
39:Cq:63:LYS:CD	39:Cq:82:ILE:HD11	2.14	0.77
40:CK:39:PRO:C	40:CK:40:LYS:HG3	2.10	0.77
44:CM:20:HIS:CG	44:CM:45:VAL:HG13	2.18	0.77
47:CI:74:LYS:HA	47:CI:74:LYS:CE	2.14	0.77
47:CI:164:LYS:HE2	47:CI:166:HIS:NE2	1.99	0.77
51:CA:158:ILE:HG22	51:CA:159:SER:N	1.99	0.77
52:CS:86:SER:HB2	52:CS:88:SER:HB3	1.67	0.77
65:Cc:27:TYR:HE1	65:Cc:29:LEU:HG	1.48	0.77
66:Cd:95:ASP:O	66:Cd:97:ASP:N	2.17	0.77
68:Cf:49:TYR:CE2	68:Cf:51:TYR:CD1	2.72	0.77
69:Cg:47:GLY:C	69:Cg:48:VAL:HG22	2.02	0.77
71:Cj:36:LYS:HZ1	71:Cj:57:ASN:ND2	1.77	0.77
74:CC:310:HIS:CB	74:CC:311:ARG:CG	2.60	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:129:ARG:HD3	80:CH:130:PRO:HD3	1.67	0.77
81:CE:181:LEU:CD2	81:CE:268:GLN:CG	2.60	0.77
82:CG:39:PHE:HE2	82:CG:47:PRO:HG3	1.46	0.77
82:CG:191:GLY:CA	82:CG:199:CYS:HG	1.78	0.77
82:CG:247:VAL:O	82:CG:250:ILE:HG22	1.84	0.77
83:Cs:21:VAL:HG13	83:Cs:27:LYS:NZ	1.98	0.77
85:A5:4981:G:H5''	85:A5:4981:G:N3	1.99	0.77
1:Az:665:ILE:HB	1:Az:704:VAL:O	1.85	0.77
4:AK:36:ALA:O	4:AK:38:LYS:HG3	1.84	0.77
4:AK:95:ARG:HE	4:AK:95:ARG:HA	1.49	0.77
5:AO:23:GLU:O	5:AO:23:GLU:CG	2.32	0.77
12:AR:122:PRO:CA	12:AR:123:THR:CB	2.58	0.77
13:AP:44:ARG:HD3	13:AP:115:TYR:HE1	1.47	0.77
16:AA:85:ARG:NH2	16:AA:201:LEU:HD12	2.00	0.77
18:AY:29:HIS:CD2	18:AY:34:THR:H	2.02	0.77
23:AD:162:ASP:CG	23:AD:166:TYR:HE2	1.92	0.77
27:AE:100:ARG:CD	27:AE:102:ILE:CD1	2.59	0.77
28:AC:259:THR:CG2	28:AC:259:THR:O	2.29	0.77
29:AG:179:LEU:HD12	29:AG:180:VAL:N	1.97	0.77
38:Cz:41:TYR:OH	38:Cz:48:ARG:HA	1.85	0.77
38:Cz:85:MET:CG	38:Cz:89:ALA:HB2	2.14	0.77
39:Cq:161:ILE:HD13	39:Cq:167:VAL:HA	1.65	0.77
40:CK:131:GLU:CG	40:CK:155:ILE:HD11	2.02	0.77
41:CO:203:VAL:HG12	41:CO:203:VAL:OXT	1.83	0.77
42:CL:157:VAL:HG23	42:CL:157:VAL:O	1.85	0.77
42:CL:191:LEU:CD2	42:CL:194:ILE:HD13	2.12	0.77
46:CN:99:GLN:NE2	46:CN:130:PHE:CE1	2.53	0.77
48:CD:79:TYR:CG	48:CD:81:HIS:CE1	2.63	0.77
48:CD:207:TYR:CE1	48:CD:211:LEU:HD11	2.20	0.77
49:CQ:64:SER:HA	49:CQ:92:VAL:HG21	1.66	0.77
51:CA:184:ARG:NH2	77:Cp:14:TYR:OH	2.12	0.77
56:CX:52:LEU:HD22	56:CX:53:ARG:H	1.49	0.77
58:CW:70:LYS:O	58:CW:71:ARG:CB	2.31	0.77
59:CZ:14:LEU:HB3	59:CZ:79:HIS:O	1.84	0.77
64:CF:105:VAL:HG22	64:CF:135:ILE:CD1	2.15	0.77
74:CC:110:ARG:HD2	74:CC:113:ARG:NH2	1.99	0.77
78:Co:31:ASP:O	78:Co:32:SER:CB	2.32	0.77
81:CE:181:LEU:CG	81:CE:268:GLN:HG3	2.14	0.77
81:CE:205:ASN:H	81:CE:205:ASN:HD22	1.32	0.77
83:Cs:7:LEU:N	83:Cs:11:TYR:CE2	2.53	0.77
85:A5:4463:U:O2'	85:A5:4464:A:H2'	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:10:ARG:O	1:Az:13:MET:HG2	1.85	0.77
1:Az:73:THR:CA	1:Az:104:ASP:CB	2.62	0.77
1:Az:154:VAL:CG1	1:Az:353:MET:HE3	2.13	0.77
1:Az:385:ILE:HD12	1:Az:417:PHE:HB3	1.66	0.77
1:Az:524:LEU:CD2	1:Az:536:CYS:SG	2.73	0.77
4:AK:39:ASN:O	4:AK:40:VAL:CB	2.32	0.77
4:AK:45:VAL:O	4:AK:49:MET:HG2	1.84	0.77
5:AO:26:ASN:HB3	5:AO:91:THR:OG1	1.84	0.77
5:AO:56:VAL:HG13	5:AO:81:VAL:CG2	2.14	0.77
7:AM:67:ALA:HB2	25:Af:108:VAL:HG21	1.67	0.77
8:AS:39:ARG:HD3	14:AT:38:LYS:NZ	1.99	0.77
10:AN:19:ARG:NH1	21:Ab:84:HIS:HB2	2.00	0.77
11:AL:97:ARG:C	11:AL:99:TYR:N	2.33	0.77
13:AP:18:ARG:HD2	13:AP:37:TYR:HB3	1.66	0.77
13:AP:128:HIS:HE1	36:B2:1521:C:C2	2.02	0.77
18:AY:118:ARG:NE	29:AG:85:ARG:CZ	2.47	0.77
23:AD:115:VAL:HB	35:Ah:178:GLY:N	1.98	0.77
24:Ae:41:ARG:C	24:Ae:45:VAL:HG21	2.09	0.77
26:AJ:37:LEU:CG	26:AJ:42:GLU:HB2	2.13	0.77
28:AC:70:VAL:HA	28:AC:97:PHE:HZ	1.48	0.77
29:AG:5:ILE:HG22	29:AG:124:LEU:HD21	1.66	0.77
29:AG:129:VAL:HB	58:CW:80:ARG:HH11	1.17	0.77
30:AF:44:LYS:C	30:AF:45:TYR:CD1	2.62	0.77
31:AH:164:ASN:OD1	31:AH:167:GLU:CD	2.26	0.77
35:Ah:299:LYS:O	35:Ah:300:ASP:CG	2.27	0.77
39:Cq:28:PHE:HE1	39:Cq:192:VAL:HG21	1.48	0.77
46:CN:29:GLN:CA	82:CG:67:ARG:HH21	1.96	0.77
47:CI:164:LYS:NZ	47:CI:166:HIS:NE2	2.32	0.77
48:CD:273:LEU:O	48:CD:277:LYS:HG3	1.84	0.77
52:CS:71:SER:HB2	52:CS:74:ARG:CB	2.13	0.77
53:CT:17:ARG:O	53:CT:22:HIS:CE1	2.37	0.77
57:CY:63:LYS:HG2	57:CY:63:LYS:O	1.84	0.77
58:CW:23:ARG:NH1	58:CW:23:ARG:CB	2.46	0.77
59:CZ:12:LEU:HD13	59:CZ:134:LEU:HD22	1.65	0.77
63:CB:150:PHE:N	63:CB:150:PHE:CD1	2.50	0.77
66:Cd:108:TYR:C	66:Cd:109:VAL:CA	2.56	0.77
67:Ce:9:LYS:HD3	67:Ce:69:MET:SD	2.25	0.77
69:Cg:11:LEU:HD22	69:Cg:18:ASN:OD1	1.85	0.77
69:Cg:53:LEU:CD2	69:Cg:80:GLY:O	2.32	0.77
69:Cg:111:ALA:O	69:Cg:115:LYS:HG3	1.85	0.77
71:Cj:64:MET:HE3	71:Cj:68:LYS:HA	1.61	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:Ck:69:LEU:HD22	72:Ck:70:LYS:N	2.00	0.77
74:CC:318:PRO:O	74:CC:320:LYS:C	2.28	0.77
81:CE:71:ARG:C	81:CE:72:LYS:CG	2.58	0.77
81:CE:83:LYS:HB3	81:CE:85:LYS:N	2.00	0.77
81:CE:162:VAL:HG13	81:CE:177:GLY:CA	2.15	0.77
81:CE:228:GLN:N	81:CE:228:GLN:NE2	2.32	0.77
83:Ct:31:LEU:HD22	84:Cv:30:VAL:HG22	1.54	0.77
85:A5:1345:A:H61	85:A5:1511:U:H3	1.31	0.77
1:Az:602:LEU:HD23	1:Az:603:TYR:N	2.00	0.77
5:AO:32:HIS:CE1	5:AO:96:LYS:HD2	2.19	0.77
6:AX:67:ARG:O	6:AX:68:LYS:CG	2.33	0.77
11:AL:7:GLU:CG	11:AL:8:ARG:HG3	2.14	0.77
11:AL:19:ASN:CG	33:Al:69:SER:HB3	2.10	0.77
12:AR:42:PRO:HD2	12:AR:43:SER:N	1.97	0.77
13:AP:52:LYS:HD3	13:AP:52:LYS:C	2.06	0.77
16:AA:37:TYR:OH	16:AA:160:ALA:HB3	1.85	0.77
17:AV:40:ASP:CB	17:AV:47:ASN:HD21	1.98	0.77
19:AZ:85:ARG:HH11	19:AZ:85:ARG:HG2	1.50	0.77
24:Ae:38:TYR:HE1	26:Aj:30:LYS:CA	1.93	0.77
25:Af:103:LEU:HD23	25:Af:103:LEU:C	2.07	0.77
28:AC:270:THR:HG23	28:AC:271:ASP:OD1	1.83	0.77
39:Cq:92:LYS:CG	39:Cq:92:LYS:O	2.29	0.77
39:Cq:135:THR:CG2	39:Cq:152:ILE:HG12	2.15	0.77
39:Cq:191:GLN:NE2	39:Cq:198:ILE:CG2	2.35	0.77
39:Cq:248:VAL:CG2	84:Cv:8:LEU:CD1	2.47	0.77
43:CV:100:ASP:C	43:CV:101:ASN:OD1	2.28	0.77
44:CM:39:ASP:CG	44:CM:47:ARG:HB2	2.09	0.77
46:CN:46:ASP:O	46:CN:50:ARG:CZ	2.33	0.77
49:CQ:76:GLU:HG3	49:CQ:77:ASN:OD1	1.85	0.77
50:CR:102:LEU:CD2	50:CR:138:LEU:HD12	2.15	0.77
51:CA:206:PRO:HD2	51:CA:207:VAL:H	1.49	0.77
56:CX:87:MET:HE1	56:CX:156:ILE:HD13	1.66	0.77
59:CZ:87:VAL:CG2	59:CZ:127:ASN:CG	2.57	0.77
59:CZ:116:VAL:O	59:CZ:120:GLU:HG3	1.85	0.77
60:Cr:9:VAL:HG11	74:CC:136:LEU:HD21	1.67	0.77
63:CB:17:LEU:CD2	63:CB:19:ARG:CG	2.60	0.77
63:CB:49:TYR:CE1	63:CB:344:VAL:HG22	2.19	0.77
63:CB:140:GLU:OE1	63:CB:144:LYS:HB2	1.84	0.77
68:Cf:106:TYR:O	68:Cf:106:TYR:CD2	2.37	0.77
68:Cf:106:TYR:HB2	68:Cf:107:PRO:HA	1.65	0.77
74:CC:22:VAL:HG21	74:CC:258:ARG:CD	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:124:ILE:HG13	74:CC:237:ILE:CG1	1.96	0.77
78:Co:65:LYS:HB3	78:Co:85:ILE:C	2.09	0.77
80:CH:19:THR:HG1	80:CH:26:ILE:HD11	1.44	0.77
81:CE:138:ARG:CZ	81:CE:169:ALA:O	2.32	0.77
81:CE:207:LYS:O	81:CE:208:ILE:HG13	1.83	0.77
82:CG:77:PRO:N	82:CG:237:TRP:CE3	2.52	0.77
82:CG:80:ILE:HG22	82:CG:81:ASN:N	1.94	0.77
83:Ct:21:VAL:HG13	83:Ct:27:LYS:CE	2.14	0.77
1:Az:394:LEU:H	1:Az:487:THR:HG22	1.49	0.77
2:Ag:143:GLN:O	2:Ag:146:SER:CB	2.33	0.77
7:AM:49:LEU:HD13	7:AM:50:CYS:N	2.00	0.77
11:AL:40:ILE:HD13	11:AL:40:ILE:O	1.84	0.77
12:AR:98:VAL:HG13	12:AR:102:THR:OG1	1.83	0.77
13:AP:52:LYS:HA	13:AP:54:HIS:HD2	1.47	0.77
13:AP:124:LYS:HG3	13:AP:124:LYS:O	1.84	0.77
16:AA:97:THR:HG23	16:AA:98:PRO:CD	2.06	0.77
18:AY:32:LYS:HG2	18:AY:33:ALA:H	1.41	0.77
20:Aa:34:LYS:O	20:Aa:35:ALA:CB	2.32	0.77
23:AD:70:THR:CA	23:AD:86:LEU:HD13	2.15	0.77
24:Ae:40:ARG:O	24:Ae:45:VAL:HG22	1.83	0.77
26:AJ:100:LEU:HD11	26:AJ:104:ASP:OD2	1.85	0.77
39:Cq:21:LEU:HB3	39:Cq:66:ARG:HG2	1.66	0.77
39:Cq:28:PHE:CE1	39:Cq:192:VAL:HG21	2.20	0.77
40:CK:1:MET:C	40:CK:2:PRO:HB3	2.08	0.77
40:CK:62:LEU:HG	40:CK:73:VAL:HB	1.65	0.77
41:CO:27:VAL:CG1	41:CO:98:ALA:O	2.33	0.77
47:CI:191:ILE:HG23	47:CI:192:PRO:CD	2.15	0.77
48:CD:58:ARG:HD3	48:CD:58:ARG:N	1.95	0.77
49:CQ:67:ILE:HD13	49:CQ:96:PRO:HD2	1.65	0.77
49:CQ:167:VAL:CG2	49:CQ:175:GLU:OE1	2.32	0.77
53:CT:142:ARG:O	53:CT:143:THR:HB	1.84	0.77
56:CX:57:GLN:HA	56:CX:58:PRO:CG	2.08	0.77
60:Cr:71:ARG:NH1	60:Cr:71:ARG:HA	1.98	0.77
60:Cr:76:SER:O	60:Cr:77:TYR:CB	2.25	0.77
61:Ch:99:GLU:HA	61:Ch:102:LEU:CD1	2.13	0.77
69:Cg:45:ALA:HB3	69:Cg:47:GLY:N	2.00	0.77
74:CC:138:MET:HE2	74:CC:145:GLU:OE2	1.83	0.77
80:CH:36:ARG:HD2	80:CH:38:PHE:CZ	2.20	0.77
80:CH:111:LEU:CD2	80:CH:127:ARG:CD	2.09	0.77
81:CE:264:ILE:HG23	81:CE:265:PRO:HD2	1.65	0.77
82:CG:184:ILE:CG2	82:CG:185:LYS:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:585:GLU:CD	1:Az:737:GLN:NE2	2.41	0.77
1:Az:592:LEU:C	1:Az:592:LEU:CD1	2.52	0.77
1:Az:662:LEU:HG	1:Az:683:PHE:CD2	2.18	0.77
1:Az:692:LEU:HD12	1:Az:824:PRO:HB3	1.62	0.77
2:Ag:57:ARG:CZ	2:Ag:94:THR:O	2.33	0.77
7:AM:85:LEU:HD22	7:AM:106:CYS:SG	2.25	0.77
8:AS:6:PRO:O	8:AS:7:GLU:HB2	1.84	0.77
11:AL:109:MET:SD	11:AL:140:PHE:CD1	2.77	0.77
13:AP:44:ARG:NE	13:AP:84:ILE:CD1	2.14	0.77
18:AY:33:ALA:HB2	36:B2:581:U:O2'	1.85	0.77
18:AY:36:PRO:HG2	18:AY:39:GLU:HB2	1.64	0.77
18:AY:55:ILE:CG1	18:AY:75:ILE:CG1	2.15	0.77
18:AY:122:LYS:H	18:AY:122:LYS:HD2	1.47	0.77
25:Af:109:ASP:O	25:Af:110:GLU:C	2.27	0.77
27:AE:153:LEU:HD23	29:AG:216:ARG:NH2	2.00	0.77
30:AF:122:ARG:HE	30:AF:193:LYS:NZ	1.75	0.77
31:AH:52:GLU:HG3	31:AH:58:LYS:HB3	1.67	0.77
36:B2:841:G:O2'	36:B2:842:C:H5'	1.84	0.77
42:CL:50:PRO:HD2	42:CL:51:ALA:CB	2.13	0.77
42:CL:62:PRO:HD3	42:CL:71:ARG:NH2	1.99	0.77
49:CQ:27:LEU:HD22	74:CC:289:LEU:CD1	2.14	0.77
49:CQ:144:LYS:HE2	49:CQ:149:TYR:CZ	2.19	0.77
49:CQ:151:HIS:ND1	49:CQ:164:LYS:CB	2.44	0.77
53:CT:13:TYR:N	53:CT:13:TYR:HD2	1.82	0.77
58:CW:80:ARG:HD2	58:CW:81:ALA:H	1.49	0.77
63:CB:10:ARG:HH11	63:CB:265:SER:HB2	1.48	0.77
63:CB:194:LEU:O	63:CB:198:ARG:CG	2.33	0.77
68:Cf:33:VAL:N	68:Cf:34:TYR:HD1	1.80	0.77
69:Cg:8:ARG:N	69:Cg:34:TYR:OH	2.00	0.77
74:CC:28:PHE:CD1	74:CC:129:ALA:HA	2.20	0.77
81:CE:78:SER:HA	81:CE:80:VAL:H	1.50	0.77
81:CE:111:LYS:HB3	81:CE:113:PRO:CG	2.13	0.77
81:CE:212:LEU:CD1	81:CE:216:TYR:HD2	1.89	0.77
82:CG:159:HIS:CG	82:CG:185:LYS:HA	2.20	0.77
1:Az:194:GLU:OE2	1:Az:195:GLY:N	2.18	0.77
1:Az:480:VAL:CG1	1:Az:529:LYS:HA	2.02	0.77
1:Az:576:VAL:O	1:Az:577:VAL:CG2	2.31	0.77
1:Az:597:ASN:O	1:Az:598:LYS:HB2	1.84	0.77
2:Ag:149:GLU:OE2	2:Ag:149:GLU:CA	2.30	0.77
5:AO:99:ALA:N	5:AO:133:THR:CG2	2.38	0.77
7:AM:12:MET:CE	7:AM:120:ALA:CB	2.61	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:34:LYS:C	8:AS:103:LEU:HD23	2.10	0.77
12:AR:99:ASP:O	12:AR:119:VAL:CG2	2.32	0.77
13:AP:41:GLN:CD	13:AP:41:GLN:C	2.52	0.77
14:AT:101:ARG:NH1	36:B2:1565:C:C5	2.53	0.77
16:AA:66:VAL:CG1	16:AA:186:ARG:CB	2.63	0.77
18:AY:20:ARG:HG3	18:AY:74:MET:HE1	1.62	0.77
24:Ae:38:TYR:HB2	26:AJ:29:LEU:CD2	2.15	0.77
26:AJ:171:GLY:C	26:AJ:173:VAL:H	1.92	0.77
29:AG:157:VAL:HG13	29:AG:158:VAL:C	2.10	0.77
31:AH:166:VAL:CG2	31:AH:173:PHE:CE2	2.67	0.77
34:AQ:127:CYS:HA	36:B2:1648:G:H2'	1.65	0.77
35:Ah:290:LEU:O	35:Ah:294:LYS:CG	2.33	0.77
41:CO:12:ARG:CB	41:CO:37:ARG:NH1	2.47	0.77
42:CL:29:PRO:HD2	42:CL:30:ALA:H	1.50	0.77
46:CN:39:ALA:HB3	46:CN:61:ILE:HG13	1.66	0.77
54:CP:91:LEU:HD12	54:CP:92:LEU:N	1.99	0.77
55:CU:60:VAL:CA	55:CU:75:GLU:HG3	2.15	0.77
57:CY:34:LEU:CD2	57:CY:38:LEU:O	2.25	0.77
58:CW:12:LYS:CE	63:CB:388:PHE:CD2	2.68	0.77
60:Cr:28:GLU:OE1	60:Cr:28:GLU:CA	2.28	0.77
60:Cr:29:PRO:O	60:Cr:30:ASN:CB	2.28	0.77
64:CF:161:LYS:CG	64:CF:209:TRP:CZ3	2.64	0.77
65:Cc:102:SER:CB	65:Cc:104:ILE:HB	2.13	0.77
66:Cd:12:LYS:HD2	66:Cd:13:GLY:N	2.00	0.77
67:Ce:72:SER:HG	67:Ce:74:PHE:HD2	1.25	0.77
69:Cg:45:ALA:CB	69:Cg:47:GLY:N	2.48	0.77
74:CC:101:MET:HE3	74:CC:104:PRO:HA	1.65	0.77
74:CC:104:PRO:HD2	74:CC:104:PRO:O	1.84	0.77
75:Cm:104:HIS:HB3	75:Cm:105:PRO:HD2	1.67	0.77
80:CH:110:SER:HG	80:CH:128:MET:H	1.30	0.77
1:Az:27:HIS:NE2	1:Az:28:VAL:CG2	2.47	0.77
1:Az:58:ASP:C	1:Az:63:GLU:HB3	2.10	0.77
1:Az:498:LYS:O	1:Az:500:SER:N	2.17	0.77
1:Az:580:ARG:HH11	1:Az:696:ASN:HB2	1.49	0.77
2:Ag:57:ARG:NH2	34:AQ:98:LYS:C	2.43	0.77
2:Ag:306:LEU:HD22	2:Ag:308:ARG:HG3	1.67	0.77
5:AO:22:ALA:C	5:AO:24:GLY:H	1.93	0.77
6:AX:29:LYS:CE	6:AX:34:THR:HG21	2.14	0.77
8:AS:33:ILE:O	8:AS:36:VAL:HG13	1.85	0.77
11:AL:5:GLN:NE2	11:AL:10:TYR:CD1	2.52	0.77
11:AL:10:TYR:CE2	11:AL:12:LYS:CE	2.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:18:LEU:HB2	14:AT:134:ILE:CD1	2.15	0.77
20:Aa:28:ARG:CG	20:Aa:29:CYS:H	1.93	0.77
24:Ae:43:VAL:C	24:Ae:45:VAL:HB	2.09	0.77
35:Ah:179:MET:SD	35:Ah:180:GLY:N	2.57	0.77
40:CK:39:PRO:O	40:CK:40:LYS:CG	2.32	0.77
45:Ca:103:VAL:CG1	45:Ca:108:TYR:HB2	2.15	0.77
45:Ca:117:LEU:HD13	45:Ca:118:PRO:HD3	1.65	0.77
46:CN:75:VAL:CB	46:CN:76:PRO:HD2	2.13	0.77
49:CQ:38:ARG:CB	74:CC:302:LEU:HD22	2.14	0.77
49:CQ:39:THR:HG22	49:CQ:41:SER:HB3	1.65	0.77
50:CR:3:MET:O	50:CR:3:MET:CG	2.30	0.77
53:CT:19:PHE:CD2	53:CT:20:ARG:HG3	2.19	0.77
56:CX:128:ILE:CG2	73:CI:10:LYS:NZ	2.47	0.77
57:CY:82:ILE:HG22	57:CY:83:GLU:C	2.10	0.77
59:CZ:33:THR:HG21	59:CZ:40:HIS:NE2	1.98	0.77
61:Ch:56:ARG:O	61:Ch:59:THR:OG1	2.03	0.77
68:Cf:46:ARG:HH21	68:Cf:71:TRP:HB3	1.50	0.77
74:CC:11:TYR:HE1	74:CC:16:GLU:O	1.68	0.77
74:CC:287:THR:O	74:CC:287:THR:HG23	1.83	0.77
79:CJ:134:LEU:C	79:CJ:157:ILE:HD11	2.09	0.77
83:Cs:32:ILE:HG22	83:Cs:37:VAL:HB	1.65	0.77
1:Az:112:SER:C	1:Az:114:GLU:N	2.35	0.76
1:Az:541:SER:C	1:Az:543:GLU:HG3	2.08	0.76
2:Ag:71:ILE:CG2	2:Ag:72:SER:N	2.48	0.76
2:Ag:194:TYR:OH	2:Ag:235:ILE:HD12	1.83	0.76
3:AU:56:MET:HE1	3:AU:88:LEU:CD2	2.14	0.76
3:AU:102:THR:O	3:AU:104:ILE:O	2.03	0.76
4:AK:43:LEU:C	4:AK:45:VAL:N	2.43	0.76
7:AM:44:LYS:HZ2	25:Af:127:GLY:HA3	1.49	0.76
12:AR:85:VAL:HG22	16:AA:201:LEU:HA	1.65	0.76
12:AR:97:GLU:HA	12:AR:116:ASN:HB2	1.67	0.76
14:AT:76:THR:OG1	14:AT:94:ARG:HB3	1.83	0.76
18:AY:52:PRO:HD2	18:AY:53:ASP:N	2.00	0.76
18:AY:102:THR:HG21	18:AY:107:ARG:CZ	2.12	0.76
23:AD:132:LYS:H	23:AD:191:PRO:CD	1.88	0.76
23:AD:200:PRO:O	23:AD:201:LYS:CG	2.32	0.76
26:AJ:39:ASN:N	26:AJ:42:GLU:HG2	2.00	0.76
27:AE:180:LEU:HD13	27:AE:228:ILE:CG1	2.15	0.76
28:AC:259:THR:CG2	28:AC:261:PHE:CD2	2.65	0.76
29:AG:181:THR:CB	29:AG:182:PRO:HD2	2.13	0.76
31:AH:169:LYS:CB	31:AH:173:PHE:CE2	2.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:25:ARG:NE	33:AI:27:TYR:HE2	1.83	0.76
33:AI:97:VAL:HG22	33:AI:100:CYS:SG	2.25	0.76
34:AQ:6:PRO:O	34:AQ:6:PRO:CG	2.29	0.76
36:B2:1195:A:H2'	36:B2:1196:A:H8	1.49	0.76
39:Cq:51:ALA:CB	39:Cq:91:THR:HG22	2.15	0.76
40:CK:103:ASN:C	40:CK:104:ILE:HG13	2.09	0.76
41:CO:82:ARG:HA	41:CO:85:ARG:HD3	1.66	0.76
48:CD:122:GLN:NE2	48:CD:125:VAL:HA	1.99	0.76
48:CD:129:GLU:OE2	48:CD:177:THR:HG22	1.85	0.76
49:CQ:5:ILE:HG22	49:CQ:7:HIS:H	1.49	0.76
55:CU:91:LEU:CD2	55:CU:96:LEU:CB	2.56	0.76
57:CY:110:LYS:CG	57:CY:115:ARG:HH12	1.96	0.76
60:Cr:136:SER:O	60:Cr:137:SER:CB	2.33	0.76
63:CB:352:LEU:HD23	63:CB:353:VAL:O	1.84	0.76
65:Cc:102:SER:HB3	65:Cc:104:ILE:HD12	1.66	0.76
66:Cd:39:LYS:NZ	66:Cd:78:ARG:NE	2.33	0.76
66:Cd:83:ARG:C	66:Cd:114:PHE:HE2	1.93	0.76
66:Cd:87:ARG:NH2	66:Cd:122:VAL:HG11	1.99	0.76
67:Ce:21:ILE:O	67:Ce:21:ILE:CG1	2.29	0.76
67:Ce:21:ILE:O	67:Ce:21:ILE:HG12	1.82	0.76
67:Ce:44:ARG:HD3	67:Ce:52:GLN:HE21	1.27	0.76
69:Cg:61:PRO:HA	69:Cg:64:LEU:CD2	2.15	0.76
72:Ck:17:ARG:O	72:Ck:18:LYS:CB	2.33	0.76
77:Cp:4:ARG:HG3	77:Cp:4:ARG:HH11	1.50	0.76
79:CJ:146:ARG:NH2	79:CJ:147:ARG:NE	2.32	0.76
79:CJ:165:TRP:CH2	79:CJ:169:LYS:HE3	2.20	0.76
80:CH:118:LEU:CD2	80:CH:177:ASP:OD2	2.32	0.76
82:CG:51:LEU:O	82:CG:53:ARG:N	2.18	0.76
1:Az:42:LYS:HG3	1:Az:79:TYR:CZ	2.20	0.76
5:AO:17:LEU:HD21	15:AB:30:TRP:HE1	1.49	0.76
11:AL:1:MET:O	11:AL:2:ALA:HB3	1.84	0.76
12:AR:1:MET:N	12:AR:1:MET:O	2.14	0.76
13:AP:5:GLU:O	13:AP:6:GLN:CB	2.33	0.76
16:AA:120:ARG:CG	28:AC:266:TYR:HE2	1.98	0.76
18:AY:62:THR:CG2	18:AY:69:THR:HG22	2.13	0.76
21:Ab:48:SER:OG	21:Ab:49:HIS:HD2	1.68	0.76
28:AC:102:LEU:HD21	28:AC:130:ILE:CG2	2.09	0.76
31:AH:8:ILE:HG23	31:AH:9:VAL:H	1.50	0.76
31:AH:10:LYS:N	31:AH:11:PRO:CD	2.47	0.76
39:Cq:199:TYR:CD1	39:Cq:204:LEU:N	2.52	0.76
39:Cq:271:ASP:N	39:Cq:272:PRO:HD2	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:10:ILE:CG1	40:CK:67:ARG:CA	2.49	0.76
40:CK:141:CYS:O	40:CK:142:ASN:CB	2.32	0.76
41:CO:18:ARG:HD2	41:CO:18:ARG:N	2.00	0.76
45:Ca:59:LYS:HA	49:CQ:172:ARG:NH2	2.00	0.76
45:Ca:119:LYS:O	45:Ca:120:GLN:O	2.03	0.76
47:CI:61:SER:HA	47:CI:126:VAL:HG22	1.66	0.76
48:CD:118:ILE:CG2	48:CD:135:ILE:CD1	2.63	0.76
51:CA:8:GLN:NE2	51:CA:231:ALA:HB1	2.00	0.76
51:CA:107:MET:HE3	51:CA:136:VAL:HG21	1.65	0.76
51:CA:139:HIS:CE1	51:CA:146:THR:CG2	2.67	0.76
52:CS:17:LEU:HD21	52:CS:58:SER:HA	1.67	0.76
56:CX:123:LYS:NZ	56:CX:139:ARG:CB	2.45	0.76
59:CZ:7:PRO:CD	59:CZ:8:GLY:H	1.94	0.76
59:CZ:13:VAL:HA	59:CZ:80:LEU:CD2	2.16	0.76
59:CZ:15:ALA:CA	59:CZ:19:SER:HB3	2.15	0.76
60:Cr:95:HIS:HA	60:Cr:98:ARG:HD2	1.67	0.76
63:CB:194:LEU:O	63:CB:198:ARG:HG3	1.86	0.76
69:Cg:3:GLN:CD	69:Cg:29:ARG:NH2	2.44	0.76
70:CI:78:GLY:C	70:CI:79:THR:CA	2.58	0.76
74:CC:290:SER:O	74:CC:294:LYS:HD2	1.84	0.76
78:Co:75:PRO:O	78:Co:75:PRO:CG	2.29	0.76
1:Az:739:ARG:HA	1:Az:824:PRO:CD	2.12	0.76
2:Ag:17:TRP:H	2:Ag:36:ARG:HG3	1.50	0.76
2:Ag:277:THR:HG22	2:Ag:278:SER:N	1.98	0.76
2:Ag:298:LEU:O	2:Ag:298:LEU:CD1	2.31	0.76
3:AU:50:VAL:CG2	3:AU:52:GLY:CA	2.58	0.76
5:AO:130:GLU:CD	15:AB:83:LYS:HZ2	1.92	0.76
16:AA:39:TYR:CA	16:AA:50:ASN:ND2	2.47	0.76
16:AA:141:ASN:HD21	17:AV:29:HIS:HB3	1.49	0.76
24:Ae:31:ARG:H	26:AJ:38:ARG:NE	1.77	0.76
25:Af:97:LYS:HB2	25:Af:97:LYS:HZ3	1.47	0.76
28:AC:65:LYS:HB2	28:AC:273:LEU:HB3	1.67	0.76
31:AH:8:ILE:HG23	31:AH:9:VAL:N	1.98	0.76
31:AH:65:PRO:CD	31:AH:68:GLN:OE1	2.28	0.76
39:Cq:45:MET:O	39:Cq:47:LEU:N	2.18	0.76
39:Cq:277:ALA:C	39:Cq:280:PRO:CD	2.59	0.76
41:CO:118:MET:HE1	52:CS:168:THR:O	1.79	0.76
45:Ca:119:LYS:CA	45:Ca:140:VAL:CG1	2.51	0.76
48:CD:51:MET:CE	48:CD:173:ILE:HG12	2.15	0.76
53:CT:2:THR:O	53:CT:2:THR:CG2	2.30	0.76
63:CB:163:ILE:CG2	63:CB:163:ILE:O	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:54:ILE:CG2	81:CE:55:GLY:H	1.98	0.76
81:CE:179:LEU:HG	81:CE:247:LYS:NZ	2.00	0.76
81:CE:282:TYR:CB	81:CE:283:PRO:HD2	2.15	0.76
84:Cu:7:TYR:HD1	84:Cu:18:PRO:CB	1.97	0.76
1:Az:73:THR:N	1:Az:104:ASP:OD2	2.18	0.76
1:Az:745:TYR:CD1	1:Az:815:ASP:CA	2.68	0.76
1:Az:829:SER:HB3	1:Az:832:SER:HB3	1.67	0.76
15:AB:59:SER:H	82:CG:264:LYS:HE2	1.50	0.76
18:AY:117:VAL:HG21	18:AY:124:ASN:OD1	1.85	0.76
22:Ac:49:PRO:CB	30:AF:144:LEU:HD23	2.16	0.76
23:AD:45:ARG:HA	23:AD:83:SER:OG	1.86	0.76
23:AD:74:GLN:NE2	23:AD:75:LYS:HE2	1.99	0.76
24:Ae:23:GLU:OE1	24:Ae:23:GLU:HA	1.83	0.76
25:Af:103:LEU:HD21	25:Af:105:TYR:HB2	1.66	0.76
34:AQ:44:PRO:HG2	34:AQ:81:ILE:CD1	2.10	0.76
34:AQ:78:VAL:CG1	34:AQ:82:TYR:CE2	2.68	0.76
35:Ah:152:SER:CB	35:Ah:155:ARG:HD2	2.15	0.76
35:Ah:172:ARG:HD2	35:Ah:173:GLY:HA3	1.65	0.76
38:Cz:204:LEU:HD22	38:Cz:216:LEU:CD2	2.15	0.76
39:Cq:242:ILE:CG1	83:Ct:63:VAL:CG2	2.58	0.76
42:CL:178:ALA:HB3	45:Ca:134:GLU:OE1	1.85	0.76
47:CI:175:LYS:HB2	47:CI:176:PHE:CZ	2.21	0.76
49:CQ:24:TYR:CB	74:CC:283:LYS:CD	2.63	0.76
49:CQ:187:LYS:HE2	49:CQ:188:ASN:HB2	1.68	0.76
50:CR:105:LEU:HD21	50:CR:109:TYR:CE1	2.20	0.76
52:CS:16:CYS:SG	52:CS:54:MET:HE3	2.25	0.76
53:CT:84:ILE:HG13	62:Cb:22:LYS:O	1.84	0.76
56:CX:120:ASP:O	56:CX:121:VAL:HG22	1.84	0.76
59:CZ:73:LYS:HG3	59:CZ:75:TYR:CD1	2.18	0.76
60:Cr:78:VAL:HG23	60:Cr:82:ILE:CG2	1.90	0.76
63:CB:142:GLY:N	63:CB:147:GLU:OE1	2.18	0.76
64:CF:137:GLU:HB2	64:CF:138:PRO:HD3	1.65	0.76
66:Cd:21:VAL:CG1	66:Cd:22:THR:N	2.46	0.76
67:Ce:6:PRO:HG3	67:Ce:93:LYS:CG	2.14	0.76
74:CC:47:ASN:HA	74:CC:112:HIS:ND1	2.01	0.76
74:CC:262:GLU:C	74:CC:264:TYR:N	2.36	0.76
75:Cm:111:ARG:HH21	75:Cm:111:ARG:CG	1.99	0.76
75:Cm:127:VAL:CB	75:Cm:128:LYS:O	2.32	0.76
81:CE:85:LYS:O	81:CE:86:GLU:HB2	1.86	0.76
82:CG:138:ALA:O	82:CG:143:VAL:HG23	1.85	0.76
83:Cs:41:PRO:CD	83:Cs:42:PHE:H	1.96	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Ct:19:ASP:HB3	84:Cv:32:ILE:CD1	2.10	0.76
1:Az:113:SER:HB2	1:Az:499:PHE:CB	2.16	0.76
1:Az:592:LEU:CD2	1:Az:603:TYR:CE1	2.67	0.76
2:Ag:170:TRP:C	2:Ag:172:LYS:H	1.93	0.76
2:Ag:281:ALA:O	2:Ag:282:GLU:CB	2.29	0.76
5:AO:125:LYS:HZ2	20:Aa:57:SER:C	1.92	0.76
6:AX:133:LEU:CD2	6:AX:139:GLU:O	2.33	0.76
16:AA:158:ASP:HB3	17:AV:65:SER:CB	2.15	0.76
19:AZ:58:LEU:HD23	19:AZ:77:LEU:HD11	1.66	0.76
23:AD:21:LEU:HD13	23:AD:48:ILE:CD1	2.16	0.76
23:AD:175:VAL:CG1	23:AD:182:LEU:HB2	2.16	0.76
28:AC:213:LEU:HD11	28:AC:241:PHE:HD1	1.50	0.76
32:AW:6:VAL:HG12	32:AW:34:ILE:HD11	1.68	0.76
33:AI:202:ILE:O	33:AI:206:LYS:HB3	1.85	0.76
34:AQ:47:LEU:HD23	34:AQ:81:ILE:HD13	1.64	0.76
34:AQ:138:ARG:CG	36:B2:1649:U:H4'	2.16	0.76
36:B2:191:A:H2'	36:B2:192:C:OP1	1.84	0.76
39:Cq:75:LEU:HD22	39:Cq:78:LEU:HD11	1.66	0.76
39:Cq:220:ARG:HH22	39:Cq:223:ALA:HB1	1.49	0.76
39:Cq:257:TYR:HH	84:Cv:46:LEU:HG	1.50	0.76
40:CK:62:LEU:CD1	40:CK:73:VAL:CB	2.56	0.76
42:CL:19:GLN:NE2	74:CC:108:TRP:HH2	1.82	0.76
54:CP:86:LYS:HD3	54:CP:90:PHE:CE2	2.20	0.76
55:CU:59:GLY:O	55:CU:61:VAL:CB	2.33	0.76
56:CX:131:ASP:C	56:CX:133:GLU:OE1	2.28	0.76
59:CZ:95:VAL:HG21	59:CZ:113:GLU:OE1	1.85	0.76
64:CF:51:TYR:CE2	81:CE:58:SER:C	2.63	0.76
69:Cg:76:ARG:HH11	69:Cg:84:ALA:CB	1.95	0.76
70:Ci:11:LEU:N	70:Ci:12:ASN:CG	2.43	0.76
73:Cl:16:LYS:HD3	73:Cl:49:LEU:HD13	1.66	0.76
74:CC:211:TYR:OH	74:CC:218:ILE:HG13	1.85	0.76
74:CC:213:GLU:N	74:CC:214:ASP:CB	2.36	0.76
80:CH:92:MET:HE1	80:CH:161:ILE:CG2	2.16	0.76
81:CE:116:TYR:N	81:CE:117:PRO:HD2	2.01	0.76
81:CE:215:ALA:O	81:CE:218:LYS:CG	2.34	0.76
2:Ag:175:LYS:NZ	2:Ag:187:ASN:OD1	2.14	0.76
2:Ag:181:ASN:OD1	2:Ag:181:ASN:O	2.03	0.76
2:Ag:286:CYS:N	2:Ag:302:TYR:CE1	2.53	0.76
8:AS:119:ALA:HA	13:AP:118:GLU:O	1.86	0.76
11:AL:22:ARG:HD3	33:AI:157:LYS:HB2	0.82	0.76
13:AP:127:LYS:NZ	13:AP:128:HIS:N	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:26:SER:O	15:AB:27:LYS:CG	2.28	0.76
15:AB:31:TYR:HD1	15:AB:94:LYS:CA	1.99	0.76
15:AB:66:VAL:HG22	15:AB:87:ILE:HG22	0.77	0.76
15:AB:81:PHE:O	15:AB:82:ARG:HB2	1.84	0.76
21:Ab:81:ARG:CB	21:Ab:82:LYS:CB	2.45	0.76
23:AD:70:THR:HG22	23:AD:86:LEU:CB	2.15	0.76
23:AD:70:THR:CG2	23:AD:86:LEU:HB2	2.16	0.76
25:Af:140:TYR:OH	25:Af:146:LEU:HB2	1.83	0.76
26:AJ:66:LYS:CA	26:AJ:71:LEU:HD11	2.15	0.76
27:AE:74:GLY:C	27:AE:75:LYS:HG2	2.10	0.76
32:AW:90:GLN:CA	32:AW:102:ILE:CD1	2.64	0.76
39:Cq:135:THR:HG22	39:Cq:152:ILE:CG1	2.16	0.76
39:Cq:259:PHE:C	39:Cq:264:LYS:CB	2.54	0.76
43:CV:88:TYR:OH	43:CV:90:ARG:HG3	1.85	0.76
48:CD:130:TYR:CE2	48:CD:131:ASN:C	2.64	0.76
49:CQ:93:GLN:C	49:CQ:94:GLU:OE2	2.29	0.76
49:CQ:95:VAL:CG2	49:CQ:116:ALA:HB3	2.16	0.76
49:CQ:172:ARG:O	49:CQ:173:LYS:CB	2.34	0.76
56:CX:41:ARG:HH11	82:CG:55:VAL:CG1	1.94	0.76
58:CW:110:ARG:N	58:CW:110:ARG:CD	2.48	0.76
59:CZ:19:SER:OG	69:Cg:76:ARG:CG	2.32	0.76
59:CZ:46:ILE:HG22	59:CZ:68:ILE:HD11	1.67	0.76
60:Cr:101:LYS:O	60:Cr:101:LYS:CG	2.30	0.76
63:CB:116:ARG:HD2	63:CB:122:TRP:CB	2.16	0.76
67:Ce:44:ARG:HG2	67:Ce:49:PHE:HB2	1.65	0.76
77:Cp:3:LYS:C	77:Cp:4:ARG:HG2	2.09	0.76
78:Co:74:GLU:OE1	78:Co:75:PRO:CD	2.30	0.76
79:CJ:9:GLU:O	79:CJ:10:ASN:CB	2.33	0.76
81:CE:71:ARG:O	81:CE:72:LYS:CG	2.33	0.76
82:CG:71:TYR:CD2	82:CG:72:LYS:N	2.54	0.76
84:Cv:23:ILE:HG21	84:Cv:39:LEU:HD22	1.66	0.76
1:Az:10:ARG:CZ	1:Az:465:PRO:CD	2.64	0.76
2:Ag:165:ILE:HG12	2:Ag:177:TRP:HB2	1.67	0.76
2:Ag:298:LEU:CG	2:Ag:310:TRP:HB2	2.16	0.76
4:AK:17:LYS:NZ	35:Ah:287:GLU:CG	2.42	0.76
6:AX:90:CYS:O	6:AX:91:LEU:C	2.24	0.76
9:Ad:7:TYR:O	9:Ad:8:TRP:CB	2.34	0.76
9:Ad:36:LEU:HD21	9:Ad:52:PHE:CE2	2.21	0.76
13:AP:127:LYS:HZ1	13:AP:127:LYS:CA	1.97	0.76
14:AT:38:LYS:HD2	14:AT:45:LEU:C	2.11	0.76
18:AY:62:THR:HA	18:AY:69:THR:HG22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:120:THR:CG2	18:AY:122:LYS:HE2	2.14	0.76
26:AJ:39:ASN:O	26:AJ:42:GLU:HB2	1.84	0.76
27:AE:49:ARG:HD3	27:AE:50:ASN:N	2.00	0.76
28:AC:71:LYS:HD2	28:AC:72:ASP:OD1	1.85	0.76
28:AC:170:TRP:CZ2	32:AW:97:ARG:HD3	2.18	0.76
32:AW:93:LEU:HD21	32:AW:128:PHE:CE2	2.20	0.76
42:CL:136:LYS:N	42:CL:137:GLY:CA	2.44	0.76
43:CV:88:TYR:CE2	43:CV:96:LEU:HD21	2.20	0.76
44:CM:65:PRO:O	44:CM:65:PRO:CG	2.30	0.76
45:Ca:94:LYS:HG2	45:Ca:94:LYS:O	1.84	0.76
45:Ca:127:LYS:HG2	45:Ca:128:PHE:CE2	2.20	0.76
46:CN:180:PHE:HB3	46:CN:184:ILE:HD12	1.60	0.76
46:CN:202:ARG:O	74:CC:112:HIS:HB2	1.86	0.76
47:CI:72:ALA:HB3	47:CI:87:MET:HE1	1.65	0.76
49:CQ:187:LYS:NZ	49:CQ:188:ASN:ND2	2.30	0.76
50:CR:133:LYS:CD	50:CR:137:ILE:CB	2.61	0.76
51:CA:242:ARG:HG2	51:CA:243:THR:H	1.50	0.76
53:CT:4:THR:HG22	53:CT:9:ARG:CD	2.14	0.76
54:CP:86:LYS:HD3	54:CP:90:PHE:HE2	1.51	0.76
58:CW:87:LEU:CA	58:CW:90:ILE:CG1	2.60	0.76
59:CZ:30:ASP:OD2	59:CZ:30:ASP:C	2.29	0.76
62:Cb:55:LYS:HG3	62:Cb:56:LYS:N	2.00	0.76
62:Cb:75:LEU:HD13	62:Cb:75:LEU:O	1.86	0.76
63:CB:116:ARG:HH11	63:CB:122:TRP:HB3	1.49	0.76
63:CB:383:GLU:C	63:CB:383:GLU:OE1	2.28	0.76
65:Cc:74:TYR:HE2	65:Cc:76:GLY:HA3	1.50	0.76
67:Ce:72:SER:HB2	67:Ce:74:PHE:CE2	2.21	0.76
68:Cf:3:GLY:HA2	81:CE:276:ALA:CB	2.14	0.76
70:Ci:13:LYS:O	70:Ci:13:LYS:HG3	1.85	0.76
73:Cl:10:LYS:HD3	73:Cl:10:LYS:O	1.86	0.76
78:Co:83:LEU:HD22	78:Co:84:ALA:N	2.01	0.76
79:CJ:17:ILE:HD13	79:CJ:83:LEU:HD11	1.65	0.76
81:CE:44:CYS:O	81:CE:45:SER:CB	2.33	0.76
1:Az:168:GLN:O	1:Az:168:GLN:CG	2.33	0.76
1:Az:649:ILE:CD1	1:Az:652:PHE:CE1	2.69	0.76
1:Az:826:ASP:OD1	1:Az:827:ASN:C	2.29	0.76
2:Ag:113:PHE:CE2	2:Ag:117:ASN:HA	2.21	0.76
3:AU:46:LYS:NZ	3:AU:97:ILE:HG12	1.99	0.76
3:AU:108:PRO:O	3:AU:108:PRO:CG	2.30	0.76
4:AK:83:LEU:O	4:AK:84:HIS:CB	2.34	0.76
5:AO:34:PHE:CZ	5:AO:100:THR:HA	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:120:HIS:CE1	8:AS:124:ARG:HH21	2.01	0.76
13:AP:4:VAL:CA	13:AP:10:ARG:CG	2.60	0.76
14:AT:77:LYS:HD2	14:AT:94:ARG:NH1	2.00	0.76
15:AB:57:ILE:O	15:AB:59:SER:N	2.18	0.76
15:AB:149:GLN:NE2	15:AB:151:ARG:HG2	2.00	0.76
23:AD:222:PRO:C	23:AD:223:ILE:HD12	2.09	0.76
27:AE:139:LEU:HG	27:AE:150:PRO:HG3	1.67	0.76
27:AE:166:THR:OG1	27:AE:168:LYS:HG3	1.86	0.76
29:AG:64:LYS:CD	29:AG:64:LYS:O	2.33	0.76
29:AG:64:LYS:C	29:AG:64:LYS:HD3	2.09	0.76
30:AF:44:LYS:HD2	30:AF:44:LYS:C	2.10	0.76
33:AI:141:ARG:HB2	33:AI:144:LYS:N	2.00	0.76
34:AQ:19:ALA:HB2	34:AQ:75:GLY:HA3	1.68	0.76
44:CM:31:ILE:CG2	44:CM:35:ARG:HD3	2.16	0.76
45:Ca:40:HIS:NE2	45:Ca:41:HIS:NE2	2.34	0.76
49:CQ:28:LEU:HD12	49:CQ:29:VAL:N	2.01	0.76
51:CA:120:PRO:HG3	51:CA:162:ASN:OD1	1.86	0.76
52:CS:90:THR:HG23	53:CT:156:TYR:CD2	2.21	0.76
52:CS:162:GLN:NE2	52:CS:162:GLN:CA	2.49	0.76
54:CP:64:ASN:OD1	54:CP:64:ASN:C	2.26	0.76
55:CU:21:PHE:CD1	55:CU:80:LYS:HG3	2.20	0.76
56:CX:114:LYS:CG	56:CX:120:ASP:OD1	2.33	0.76
58:CW:63:GLN:CG	58:CW:64:SER:H	1.91	0.76
58:CW:76:VAL:O	58:CW:77:LYS:HD3	1.85	0.76
60:Cr:14:SER:OG	60:Cr:17:LEU:HB2	1.85	0.76
60:Cr:28:GLU:O	60:Cr:30:ASN:C	2.29	0.76
62:Cb:36:ASP:OD1	62:Cb:37:PRO:CD	2.33	0.76
66:Cd:29:ILE:CG2	66:Cd:33:ILE:HD11	2.14	0.76
74:CC:85:HIS:C	74:CC:87:SER:N	2.33	0.76
81:CE:56:ARG:CG	81:CE:65:ARG:NH1	2.40	0.76
85:A5:4910:G:O2'	85:A5:4911:A:H2'	1.84	0.76
1:Az:240:GLY:HA3	1:Az:241:GLU:CB	2.06	0.76
2:Ag:144:ASP:O	2:Ag:145:GLU:CG	2.30	0.76
5:AO:113:GLN:CD	20:Aa:46:GLU:CD	2.53	0.76
6:AX:1:MET:O	6:AX:2:GLY:C	2.29	0.76
6:AX:95:GLU:CG	6:AX:140:ARG:NH2	2.48	0.76
11:AL:5:GLN:HG3	33:AI:197:PHE:HE2	1.47	0.76
13:AP:107:ILE:HB	13:AP:111:MET:SD	2.26	0.76
15:AB:123:ALA:HB2	15:AB:165:ARG:HG2	1.67	0.76
19:AZ:91:LEU:CD2	19:AZ:96:LEU:HD12	2.16	0.76
25:Af:116:ARG:HH11	25:Af:116:ARG:CG	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:46:VAL:HG11	26:AJ:102:ILE:HG23	1.68	0.76
28:AC:157:LEU:C	28:AC:160:LEU:CD2	2.59	0.76
29:AG:129:VAL:N	58:CW:80:ARG:HH11	1.84	0.76
29:AG:157:VAL:HG22	29:AG:158:VAL:H	1.50	0.76
32:AW:42:MET:HE3	32:AW:50:PHE:HD2	1.47	0.76
33:AI:112:TRP:HH2	33:AI:117:TYR:OH	1.68	0.76
33:AI:155:ASN:C	33:AI:157:LYS:H	1.93	0.76
34:AQ:32:ILE:O	34:AQ:39:LEU:HG	1.85	0.76
39:Cq:116:ILE:HG22	39:Cq:166:LYS:CD	2.16	0.76
40:CK:114:ARG:CD	40:CK:130:LYS:CA	2.63	0.76
42:CL:163:LYS:HE3	45:Ca:100:ILE:HG21	1.68	0.76
46:CN:44:ARG:CG	46:CN:119:TYR:HE1	1.97	0.76
49:CQ:150:ARG:CG	49:CQ:164:LYS:HG3	2.16	0.76
49:CQ:154:LYS:HE2	49:CQ:155:ALA:O	1.86	0.76
51:CA:4:VAL:HG13	51:CA:8:GLN:OE1	1.86	0.76
55:CU:115:PHE:O	55:CU:116:GLN:CG	2.30	0.76
69:Cg:36:LYS:HD2	69:Cg:37:LYS:N	2.00	0.76
69:Cg:38:VAL:HG12	69:Cg:40:LYS:HE2	1.68	0.76
70:Ci:11:LEU:C	70:Ci:12:ASN:OD1	2.29	0.76
74:CC:22:VAL:O	74:CC:22:VAL:HG12	1.86	0.76
74:CC:143:ARG:CZ	74:CC:182:LYS:HD3	2.16	0.76
74:CC:209:ILE:O	74:CC:229:LEU:HA	1.86	0.76
78:Co:40:ARG:HG2	78:Co:40:ARG:HH21	1.49	0.76
78:Co:75:PRO:C	78:Co:76:ASN:OD1	2.29	0.76
81:CE:106:VAL:HG23	81:CE:107:VAL:CG2	2.16	0.76
1:Az:4:PHE:HD2	1:Az:5:THR:CA	1.98	0.76
1:Az:830:ARG:CB	1:Az:831:PRO:HD3	2.16	0.76
3:AU:82:MET:HE2	9:Ad:51:GLY:HA3	1.68	0.76
10:AN:16:LEU:HD21	10:AN:62:GLN:NE2	2.01	0.76
12:AR:122:PRO:C	12:AR:123:THR:OG1	2.27	0.76
15:AB:105:LEU:CD1	15:AB:213:ARG:HB2	2.09	0.76
15:AB:137:LEU:CD2	15:AB:215:VAL:CB	2.63	0.76
16:AA:5:LEU:HB2	17:AV:41:LYS:CE	2.14	0.76
18:AY:34:THR:C	18:AY:35:VAL:CG2	2.53	0.76
21:Ab:63:LEU:O	21:Ab:63:LEU:HG	1.84	0.76
27:AE:126:VAL:CG2	27:AE:156:VAL:HA	2.16	0.76
31:AH:122:LEU:HD12	31:AH:123:THR:N	2.00	0.76
31:AH:145:ARG:CD	32:AW:51:GLU:CG	2.60	0.76
35:Ah:170:ARG:O	35:Ah:170:ARG:CG	2.29	0.76
40:CK:47:ALA:CA	40:CK:72:GLU:HG2	2.16	0.76
40:CK:97:ASN:C	40:CK:98:ILE:HG13	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:131:PRO:HG2	52:CS:156:HIS:CD2	2.17	0.76
45:Ca:93:ASN:ND2	45:Ca:94:LYS:HA	2.00	0.76
49:CQ:50:ARG:O	49:CQ:53:MET:CG	2.34	0.76
52:CS:2:LYS:HE3	52:CS:43:ARG:HG2	1.67	0.76
53:CT:11:THR:CB	53:CT:15:PHE:CD2	2.68	0.76
53:CT:33:ILE:N	53:CT:33:ILE:CD1	2.36	0.76
57:CY:42:TYR:CE1	57:CY:119:LEU:CD2	2.67	0.76
64:CF:95:ILE:CD1	64:CF:96:ARG:CG	2.64	0.76
64:CF:242:ARG:O	64:CF:246:ARG:HG3	1.86	0.76
70:CI:33:LEU:HB2	70:CI:38:LYS:HE2	1.60	0.76
80:CH:25:VAL:CG2	80:CH:80:MET:HE1	2.16	0.76
82:CG:31:LEU:HD13	82:CG:31:LEU:N	2.01	0.76
83:Ct:54:VAL:CG1	83:Ct:59:LEU:CD1	2.63	0.76
2:Ag:59:LEU:HD12	2:Ag:90:TRP:CE3	2.21	0.75
6:AX:125:VAL:C	6:AX:128:VAL:H	1.94	0.75
11:AL:5:GLN:O	11:AL:7:GLU:N	2.19	0.75
12:AR:108:LEU:HB2	16:AA:39:TYR:OH	1.84	0.75
13:AP:110:GLU:H	13:AP:110:GLU:CD	1.94	0.75
14:AT:143:LYS:CD	14:AT:144:LYS:H	1.95	0.75
15:AB:63:LYS:HD3	15:AB:63:LYS:C	2.11	0.75
16:AA:154:LEU:HD12	17:AV:63:GLY:CA	2.16	0.75
16:AA:158:ASP:HB3	17:AV:65:SER:HB2	1.68	0.75
18:AY:118:ARG:CZ	29:AG:85:ARG:HD3	2.16	0.75
19:AZ:62:VAL:CG1	19:AZ:68:ILE:CD1	2.61	0.75
19:AZ:103:HIS:NE2	19:AZ:105:ALA:HB3	2.00	0.75
21:Ab:61:THR:CG2	21:Ab:62:VAL:N	2.49	0.75
21:Ab:81:ARG:CB	21:Ab:82:LYS:CA	2.63	0.75
29:AG:181:THR:CB	29:AG:182:PRO:CD	2.63	0.75
33:AI:8:TRP:HZ3	33:AI:20:PRO:HA	1.51	0.75
35:Ah:155:ARG:O	35:Ah:159:ASP:N	2.19	0.75
40:CK:48:LYS:HG2	40:CK:52:ASP:OD1	1.86	0.75
41:CO:192:TYR:HD2	44:CM:122:ILE:CG1	2.00	0.75
44:CM:41:PRO:CD	44:CM:73:VAL:HG21	2.14	0.75
46:CN:115:VAL:HA	46:CN:134:LEU:HD22	1.62	0.75
47:CI:175:LYS:N	47:CI:176:PHE:CD2	2.53	0.75
47:CI:206:LEU:CB	47:CI:206:LEU:O	2.34	0.75
49:CQ:154:LYS:NZ	49:CQ:163:THR:HG21	2.00	0.75
49:CQ:154:LYS:HB3	49:CQ:163:THR:HG23	1.68	0.75
53:CT:7:LYS:C	53:CT:7:LYS:CD	2.59	0.75
55:CU:59:GLY:C	55:CU:61:VAL:H	1.93	0.75
56:CX:39:LYS:HD2	56:CX:40:ILE:O	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:74:LYS:CD	61:Ch:75:GLY:N	2.49	0.75
64:CF:162:ILE:HD13	64:CF:177:ARG:NH2	2.01	0.75
64:CF:182:TYR:HB3	64:CF:200:ARG:HG2	1.67	0.75
66:Cd:96:GLU:OE1	66:Cd:96:GLU:CA	2.30	0.75
74:CC:5:ARG:C	74:CC:24:LEU:HD21	2.10	0.75
74:CC:90:GLY:HA2	74:CC:96:CYS:HB3	1.68	0.75
74:CC:144:ILE:HG22	74:CC:144:ILE:O	1.84	0.75
74:CC:158:VAL:HA	74:CC:161:TYR:HD2	1.51	0.75
76:Cn:3:ALA:HA	76:Cn:6:ARG:HG3	1.68	0.75
79:CJ:128:LEU:HD11	79:CJ:130:PHE:HE2	0.87	0.75
79:CJ:128:LEU:HD12	79:CJ:130:PHE:HD2	1.49	0.75
82:CG:260:GLU:O	82:CG:263:THR:HG22	1.86	0.75
83:Ct:15:ILE:HD12	84:Cv:9:LEU:HD11	0.77	0.75
84:Cu:7:TYR:HE1	84:Cu:23:ILE:CD1	1.76	0.75
1:Az:207:PRO:HG2	1:Az:261:TRP:CE2	2.21	0.75
2:Ag:149:GLU:OE2	2:Ag:149:GLU:C	2.29	0.75
8:AS:8:LYS:C	19:AZ:49:LEU:HD23	2.12	0.75
10:AN:16:LEU:CD2	10:AN:17:PRO:HD2	2.15	0.75
10:AN:115:LEU:O	10:AN:119:GLU:HG3	1.84	0.75
11:AL:17:PHE:CD1	11:AL:18:GLN:HB2	2.21	0.75
11:AL:134:LEU:O	11:AL:134:LEU:HD23	1.87	0.75
12:AR:85:VAL:HG12	16:AA:198:MET:HB2	1.69	0.75
13:AP:10:ARG:NE	13:AP:11:THR:HB	2.01	0.75
19:AZ:92:LEU:HD11	19:AZ:109:TYR:CZ	2.20	0.75
21:Ab:33:MET:CE	21:Ab:79:PHE:HB2	1.86	0.75
22:Ac:35:MET:HE3	30:AF:33:ILE:HD13	1.68	0.75
25:Af:136:PHE:O	25:Af:138:ARG:N	2.19	0.75
26:AJ:94:LEU:HD12	26:AJ:95:ASP:N	2.00	0.75
29:AG:213:LEU:O	29:AG:217:MET:CG	2.32	0.75
35:Ah:179:MET:SD	35:Ah:179:MET:C	2.65	0.75
39:Cq:110:ALA:CB	39:Cq:182:PRO:HD2	2.08	0.75
39:Cq:200:ASN:O	39:Cq:202:GLU:N	2.19	0.75
40:CK:159:ALA:O	40:CK:163:PRO:CD	2.34	0.75
41:CO:66:PRO:HD2	41:CO:67:SER:N	1.97	0.75
44:CM:33:GLN:OE1	80:CH:61:TRP:CG	2.39	0.75
48:CD:270:LYS:O	48:CD:271:MET:CB	2.33	0.75
50:CR:133:LYS:HD2	50:CR:137:ILE:CB	2.14	0.75
50:CR:133:LYS:HD2	50:CR:137:ILE:HD12	1.69	0.75
57:CY:22:PRO:HG2	57:CY:25:ILE:HG13	1.68	0.75
57:CY:104:VAL:HG12	57:CY:105:VAL:N	1.99	0.75
58:CW:106:GLU:CB	58:CW:110:ARG:HH12	1.98	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:73:TYR:CD2	61:Ch:80:PRO:HD3	2.21	0.75
62:Cb:51:LYS:NZ	62:Cb:54:LEU:HD22	2.02	0.75
66:Cd:115:LYS:O	66:Cd:116:ASN:CG	2.29	0.75
67:Ce:6:PRO:O	67:Ce:7:LEU:C	2.30	0.75
67:Ce:22:ARG:HD3	67:Ce:31:ILE:CG2	2.16	0.75
80:CH:53:LYS:O	80:CH:54:ARG:HG3	1.86	0.75
83:Cs:11:TYR:HB3	84:Cu:9:LEU:HG	1.68	0.75
1:Az:205:ILE:O	1:Az:206:ASP:CG	2.29	0.75
1:Az:526:ARG:HG2	1:Az:526:ARG:NH1	1.97	0.75
2:Ag:54:ILE:HG23	2:Ag:55:PRO:HD2	1.68	0.75
2:Ag:284:PRO:O	2:Ag:284:PRO:CG	2.30	0.75
4:AK:84:HIS:CD2	7:AM:27:ILE:HD11	2.21	0.75
5:AO:19:PRO:CD	5:AO:27:VAL:HG21	2.12	0.75
8:AS:87:GLN:O	8:AS:88:LYS:C	2.21	0.75
10:AN:92:ILE:HG22	10:AN:150:VAL:HG21	1.69	0.75
12:AR:13:ALA:HB1	12:AR:54:VAL:HG22	1.67	0.75
12:AR:20:TYR:CE2	12:AR:38:ILE:HD13	2.22	0.75
13:AP:77:LYS:O	13:AP:78:THR:HG23	1.85	0.75
15:AB:90:ASP:CG	15:AB:91:VAL:H	1.92	0.75
15:AB:105:LEU:CD1	15:AB:110:MET:HE1	2.15	0.75
19:AZ:48:VAL:HG21	19:AZ:80:ARG:HD3	1.65	0.75
21:Ab:84:HIS:N	21:Ab:84:HIS:CD2	2.54	0.75
23:AD:188:ILE:HG22	23:AD:190:LEU:HD22	1.68	0.75
28:AC:259:THR:O	28:AC:260:VAL:C	2.28	0.75
31:AH:6:ALA:O	31:AH:10:LYS:HG3	1.86	0.75
33:AI:29:LEU:HG	33:AI:30:GLY:N	2.01	0.75
34:AQ:85:ARG:O	34:AQ:88:ILE:HG12	1.86	0.75
38:Cz:36:ILE:CD1	38:Cz:201:VAL:HG13	2.14	0.75
40:CK:53:TRP:O	40:CK:54:LYS:O	2.04	0.75
44:CM:107:PHE:HD1	81:CE:270:TYR:CD2	2.03	0.75
46:CN:65:ARG:HG2	46:CN:129:PHE:CD1	2.22	0.75
47:CI:38:ARG:HG3	47:CI:83:ASP:CB	2.15	0.75
47:CI:76:MET:HE3	47:CI:151:ALA:CB	2.16	0.75
48:CD:271:MET:HE1	48:CD:275:GLN:CD	2.11	0.75
51:CA:209:HIS:NE2	51:CA:235:VAL:HG11	1.97	0.75
52:CS:36:ASN:O	52:CS:39:VAL:HG22	1.86	0.75
60:Cr:50:GLY:N	60:Cr:64:ILE:CG2	2.49	0.75
64:CF:105:VAL:HG11	64:CF:139:TYR:CD2	2.20	0.75
65:Cc:12:GLU:CB	65:Cc:13:SER:CA	2.50	0.75
66:Cd:42:ALA:CB	66:Cd:73:TRP:CD2	2.69	0.75
67:Ce:6:PRO:CG	67:Ce:93:LYS:HD3	2.07	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:38:PRO:HB2	67:Ce:43:ASN:HD22	1.49	0.75
75:Cm:104:HIS:NE2	75:Cm:111:ARG:NH1	2.35	0.75
78:Co:85:ILE:HG22	78:Co:86:LYS:H	1.49	0.75
79:CJ:26:VAL:CG1	79:CJ:33:LEU:HD21	2.16	0.75
79:CJ:48:PRO:CB	79:CJ:72:CYS:HG	2.00	0.75
80:CH:4:ILE:HG23	80:CH:5:LEU:N	2.01	0.75
80:CH:49:GLY:CA	80:CH:50:LYS:HZ2	1.83	0.75
81:CE:44:CYS:HB2	81:CE:54:ILE:HD11	1.67	0.75
81:CE:46:ARG:CD	81:CE:47:ASN:N	2.45	0.75
82:CG:255:LYS:CE	82:CG:259:LYS:HE3	2.15	0.75
1:Az:267:ASP:C	1:Az:267:ASP:HA	2.10	0.75
1:Az:710:HIS:CD2	1:Az:715:HIS:CB	2.64	0.75
1:Az:739:ARG:CA	1:Az:824:PRO:CD	2.63	0.75
2:Ag:162:ASN:CG	2:Ag:163:PRO:HD2	2.12	0.75
10:AN:23:PRO:HD2	10:AN:26:LEU:CD2	2.16	0.75
10:AN:24:THR:OG1	21:Ab:84:HIS:CE1	2.34	0.75
13:AP:69:PRO:HD2	13:AP:70:MET:N	2.01	0.75
17:AV:53:TYR:CE2	17:AV:72:LEU:HB3	2.20	0.75
22:Ac:67:ARG:CA	22:Ac:68:LEU:HD23	2.16	0.75
23:AD:123:LEU:CD2	23:AD:154:ASP:CB	2.54	0.75
23:AD:200:PRO:O	23:AD:201:LYS:CB	2.34	0.75
24:Ae:49:PHE:C	24:Ae:51:LYS:H	1.95	0.75
27:AE:87:MET:HE1	27:AE:236:ILE:HD13	1.68	0.75
28:AC:256:TRP:CD2	32:AW:68:ARG:CD	2.69	0.75
28:AC:268:GLU:HG3	28:AC:269:PHE:CD2	2.21	0.75
39:Cq:277:ALA:HA	39:Cq:280:PRO:HG3	1.68	0.75
46:CN:136:ASP:HB2	46:CN:139:HIS:HD2	1.48	0.75
47:CI:12:CYS:SG	47:CI:57:TYR:OH	2.43	0.75
47:CI:156:LYS:HG2	47:CI:163:GLN:NE2	2.02	0.75
47:CI:175:LYS:CB	47:CI:176:PHE:CE1	2.60	0.75
51:CA:103:PRO:HG2	51:CA:106:THR:HG23	1.68	0.75
52:CS:11:LYS:O	52:CS:11:LYS:HG2	1.86	0.75
56:CX:64:SER:OG	56:CX:65:ALA:N	2.16	0.75
59:CZ:53:VAL:HG22	59:CZ:54:THR:H	1.52	0.75
63:CB:153:MET:SD	63:CB:160:ILE:HG13	2.24	0.75
67:Ce:44:ARG:HD2	67:Ce:52:GLN:HE21	1.51	0.75
69:Cg:74:VAL:HG21	69:Cg:76:ARG:HH21	1.52	0.75
69:Cg:79:GLY:O	69:Cg:81:SER:C	2.29	0.75
81:CE:153:LEU:HD12	81:CE:193:PHE:O	1.86	0.75
82:CG:163:PRO:HB2	82:CG:166:LEU:CD1	2.17	0.75
1:Az:580:ARG:NH1	1:Az:696:ASN:OD1	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:61:LEU:CD2	9:Ad:34:TYR:CE2	2.36	0.75
4:AK:43:LEU:O	4:AK:44:HIS:C	2.28	0.75
5:AO:20:GLN:CG	5:AO:21:VAL:O	2.33	0.75
6:AX:142:ARG:HH11	6:AX:142:ARG:HG3	1.49	0.75
8:AS:34:LYS:HB3	8:AS:103:LEU:CG	2.11	0.75
11:AL:17:PHE:CD1	11:AL:18:GLN:N	2.54	0.75
13:AP:70:MET:SD	79:CJ:93:GLU:CD	2.70	0.75
16:AA:11:LYS:CD	16:AA:13:GLU:CG	2.62	0.75
16:AA:147:LEU:HD22	16:AA:163:CYS:SG	2.27	0.75
16:AA:185:MET:SD	17:AV:44:GLY:HA2	2.25	0.75
17:AV:24:ILE:C	17:AV:24:ILE:HD12	2.11	0.75
24:Ae:31:ARG:HB2	26:AJ:38:ARG:HG2	0.77	0.75
26:AJ:17:ARG:HG2	26:AJ:18:ARG:HD3	0.75	0.75
28:AC:207:ALA:O	28:AC:210:PRO:HG2	1.86	0.75
30:AF:15:PRO:HD3	34:AQ:56:LEU:HB3	1.66	0.75
30:AF:79:HIS:O	30:AF:80:GLY:C	2.29	0.75
36:B2:1433:C:O2'	36:B2:1434:C:H5'	1.87	0.75
38:Cz:26:ARG:HD3	38:Cz:210:MET:CB	2.17	0.75
39:Cq:131:GLY:N	40:CK:35:LEU:CD2	2.49	0.75
39:Cq:269:LEU:C	39:Cq:272:PRO:CG	2.60	0.75
40:CK:107:ASP:OD1	40:CK:143:VAL:CB	2.34	0.75
40:CK:141:CYS:O	40:CK:147:HIS:O	2.04	0.75
41:CO:22:ILE:CG2	52:CS:166:ARG:HG3	2.15	0.75
42:CL:148:THR:C	42:CL:149:GLN:HG2	2.11	0.75
44:CM:35:ARG:HH22	52:CS:108:GLN:HE21	0.75	0.75
44:CM:80:ALA:HB3	44:CM:82:ILE:HD13	1.68	0.75
48:CD:22:ARG:CG	48:CD:28:THR:OG1	2.27	0.75
50:CR:56:THR:C	50:CR:57:VAL:HG13	2.11	0.75
54:CP:48:LEU:HD11	54:CP:91:LEU:CD1	2.16	0.75
56:CX:119:ILE:HD11	56:CX:140:LEU:HD22	0.76	0.75
61:Ch:4:ILE:CG2	61:Ch:4:ILE:O	2.29	0.75
69:Cg:84:ALA:HA	69:Cg:87:VAL:HG23	1.66	0.75
74:CC:122:TYR:CE1	74:CC:280:PRO:CG	2.69	0.75
74:CC:273:LEU:O	74:CC:273:LEU:CD1	2.30	0.75
74:CC:309:ILE:CG2	74:CC:310:HIS:N	2.34	0.75
77:Cp:3:LYS:HD2	77:Cp:4:ARG:N	2.00	0.75
79:CJ:163:MET:HB3	79:CJ:174:ILE:HD11	1.68	0.75
79:CJ:174:ILE:HG22	79:CJ:175:LEU:N	2.01	0.75
81:CE:106:VAL:CG2	81:CE:107:VAL:CG1	2.63	0.75
81:CE:212:LEU:HG	81:CE:216:TYR:CB	2.17	0.75
82:CG:24:ALA:O	82:CG:25:LYS:C	2.28	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:46:ILE:HG22	1:Az:46:ILE:O	1.85	0.75
6:AX:115:ILE:O	6:AX:115:ILE:CG2	2.29	0.75
7:AM:124:ILE:CA	7:AM:127:TYR:HD2	1.97	0.75
9:Ad:36:LEU:CG	23:AD:12:VAL:CG1	2.65	0.75
11:AL:82:MET:HE1	36:B2:373:G:H4'	1.63	0.75
12:AR:83:ASN:O	16:AA:201:LEU:HD13	1.87	0.75
13:AP:128:HIS:CE1	36:B2:1521:C:C1'	2.63	0.75
22:Ac:10:LYS:HD3	22:Ac:34:PHE:HE1	1.52	0.75
23:AD:197:LYS:H	23:AD:199:GLY:N	1.82	0.75
25:Af:111:ASN:OD1	25:Af:111:ASN:C	2.30	0.75
26:AJ:61:LEU:CD1	26:AJ:94:LEU:CD1	2.61	0.75
27:AE:31:PRO:HG2	27:AE:38:LEU:HD13	1.69	0.75
27:AE:99:PHE:CD1	27:AE:113:ARG:HG3	2.19	0.75
28:AC:192:LEU:CD2	28:AC:227:ARG:CG	2.61	0.75
30:AF:14:THR:HG23	30:AF:15:PRO:CD	2.16	0.75
31:AH:80:VAL:HA	31:AH:83:LEU:CD2	2.17	0.75
38:Cz:1:MET:H2	38:Cz:212:LYS:HA	1.52	0.75
38:Cz:67:VAL:HG21	38:Cz:77:ALA:HB1	1.68	0.75
39:Cq:116:ILE:CG2	39:Cq:166:LYS:HZ3	2.00	0.75
39:Cq:248:VAL:HG22	84:Cv:8:LEU:HD12	0.81	0.75
46:CN:65:ARG:HD3	46:CN:129:PHE:HE1	1.51	0.75
49:CQ:50:ARG:O	49:CQ:53:MET:HG3	1.87	0.75
49:CQ:67:ILE:CD1	49:CQ:96:PRO:HD2	2.15	0.75
49:CQ:81:VAL:HB	49:CQ:138:LEU:HD23	1.68	0.75
49:CQ:187:LYS:HE2	49:CQ:188:ASN:CB	2.17	0.75
50:CR:176:ARG:O	50:CR:180:LYS:HE2	1.86	0.75
52:CS:17:LEU:HD23	52:CS:58:SER:CA	2.13	0.75
57:CY:100:HIS:HD2	57:CY:102:SER:OG	1.70	0.75
59:CZ:5:MET:O	59:CZ:6:LYS:CG	2.34	0.75
59:CZ:13:VAL:HG22	59:CZ:80:LEU:HD21	1.68	0.75
59:CZ:47:ASP:OD1	59:CZ:47:ASP:C	2.30	0.75
61:Ch:85:PRO:HA	61:Ch:86:LYS:NZ	2.02	0.75
61:Ch:87:LYS:CA	71:Cj:73:ARG:NH2	2.48	0.75
63:CB:10:ARG:NE	63:CB:14:LEU:HD11	2.01	0.75
65:Cc:22:MET:HE1	65:Cc:27:TYR:CD2	2.22	0.75
72:Ck:14:THR:C	72:Ck:17:ARG:HG2	2.10	0.75
74:CC:56:GLU:O	74:CC:56:GLU:CD	2.30	0.75
74:CC:144:ILE:CG2	74:CC:147:VAL:HB	2.16	0.75
80:CH:34:LEU:HD22	80:CH:150:ASP:CG	2.10	0.75
80:CH:52:LYS:O	80:CH:53:LYS:CB	2.32	0.75
80:CH:93:ARG:HG3	80:CH:93:ARG:HH11	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:110:SER:HG	80:CH:111:LEU:HA	1.49	0.75
1:Az:411:TYR:N	1:Az:411:TYR:CD1	2.52	0.75
1:Az:571:LYS:HE2	1:Az:571:LYS:CA	2.16	0.75
1:Az:662:LEU:HD11	1:Az:683:PHE:CB	2.16	0.75
3:AU:19:ARG:O	3:AU:116:ILE:O	2.04	0.75
6:AX:52:LEU:HD11	6:AX:53:GLU:HG2	1.68	0.75
8:AS:34:LYS:CA	8:AS:103:LEU:HD21	2.15	0.75
13:AP:86:LEU:HD23	13:AP:86:LEU:N	2.01	0.75
13:AP:107:ILE:CB	13:AP:111:MET:SD	2.74	0.75
14:AT:39:LEU:HD11	14:AT:56:ARG:NH2	2.01	0.75
15:AB:72:ALA:HA	15:AB:79:VAL:HG23	1.61	0.75
26:AJ:155:LYS:HE3	26:AJ:156:HIS:CE1	2.22	0.75
27:AE:143:ASP:CG	27:AE:145:ARG:HD2	2.11	0.75
29:AG:16:ILE:HG21	29:AG:45:TRP:CZ2	2.22	0.75
29:AG:77:LEU:O	29:AG:92:ARG:HG3	1.86	0.75
29:AG:210:ALA:O	29:AG:213:LEU:CG	2.35	0.75
30:AF:187:SER:O	30:AF:190:ILE:HG22	1.85	0.75
31:AH:145:ARG:CD	32:AW:51:GLU:CD	2.59	0.75
36:B2:530:U:H2'	36:B2:531:A:H5'	1.69	0.75
36:B2:839:C:H2'	36:B2:841:G:C4'	2.17	0.75
38:Cz:177:ASP:O	38:Cz:180:VAL:HG12	1.85	0.75
39:Cq:242:ILE:CG2	83:Ct:63:VAL:HG11	2.17	0.75
43:CV:14:PHE:CE1	43:CV:91:LYS:HE3	2.21	0.75
44:CM:36:ALA:HB2	44:CM:52:PHE:CZ	2.22	0.75
48:CD:152:ARG:HH11	79:CJ:145:LYS:HZ3	1.33	0.75
49:CQ:72:LEU:CB	49:CQ:75:ARG:HE	1.98	0.75
49:CQ:154:LYS:HE3	49:CQ:163:THR:CB	2.15	0.75
49:CQ:163:THR:O	49:CQ:165:PRO:HD3	1.86	0.75
52:CS:150:ILE:HD12	52:CS:151:LYS:H	1.49	0.75
54:CP:64:ASN:OD1	54:CP:65:GLY:CA	2.34	0.75
56:CX:56:ARG:C	56:CX:58:PRO:HD2	2.10	0.75
58:CW:109:ILE:O	58:CW:113:LYS:HE3	1.85	0.75
59:CZ:46:ILE:CD1	59:CZ:49:TYR:CZ	2.43	0.75
60:Cr:43:LEU:HD23	60:Cr:43:LEU:N	2.00	0.75
60:Cr:112:ARG:HH21	60:Cr:113:ARG:HH21	1.32	0.75
63:CB:47:LEU:CD1	63:CB:344:VAL:HG13	2.16	0.75
63:CB:111:SER:O	63:CB:112:ASP:C	2.26	0.75
63:CB:397:ILE:O	63:CB:398:ALA:CB	2.35	0.75
66:Cd:27:ILE:HD11	66:Cd:52:PHE:CD2	2.21	0.75
68:Cf:18:LEU:HD12	68:Cf:18:LEU:C	1.98	0.75
77:Cp:50:ARG:NE	77:Cp:54:ILE:HD12	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:66:ILE:HD13	78:Co:66:ILE:H	1.47	0.75
78:Co:66:ILE:HB	78:Co:85:ILE:HD12	1.64	0.75
80:CH:19:THR:HG1	80:CH:26:ILE:CG1	1.98	0.75
81:CE:54:ILE:N	81:CE:63:TYR:HB2	2.02	0.75
81:CE:282:TYR:CB	81:CE:283:PRO:CD	2.63	0.75
82:CG:71:TYR:C	82:CG:73:ARG:H	1.95	0.75
82:CG:107:LYS:O	82:CG:111:LYS:HG2	1.85	0.75
1:Az:58:ASP:OD1	1:Az:69:THR:CB	2.35	0.75
1:Az:64:GLN:O	1:Az:64:GLN:CD	2.30	0.75
1:Az:191:THR:CB	1:Az:192:TYR:CE2	2.70	0.75
1:Az:590:LEU:HD23	1:Az:605:LYS:HG3	1.69	0.75
2:Ag:12:LYS:HD2	2:Ag:13:GLY:HA2	0.75	0.75
2:Ag:48:ASP:O	2:Ag:49:GLU:CD	2.29	0.75
3:AU:44:LYS:O	3:AU:47:ASN:HA	1.87	0.75
3:AU:66:ARG:NH2	3:AU:75:LYS:HA	2.02	0.75
5:AO:130:GLU:CD	15:AB:83:LYS:NZ	2.43	0.75
6:AX:142:ARG:CG	6:AX:142:ARG:NH1	2.30	0.75
7:AM:14:VAL:C	7:AM:16:THR:H	1.93	0.75
7:AM:44:LYS:CD	35:Ah:303:LYS:HZ3	1.99	0.75
9:Ad:7:TYR:O	9:Ad:8:TRP:HB2	1.85	0.75
18:AY:9:THR:CB	18:AY:48:TYR:HH	1.99	0.75
26:AJ:48:PHE:CZ	26:AJ:52:LYS:CE	2.66	0.75
26:AJ:50:LEU:HD22	26:AJ:54:ARG:HG3	1.68	0.75
30:AF:14:THR:CG2	34:AQ:56:LEU:CD1	2.56	0.75
30:AF:20:PHE:C	30:AF:22:LYS:N	2.40	0.75
33:AI:130:THR:HB	33:AI:131:PRO:HD3	1.66	0.75
34:AQ:112:LEU:CD1	34:AQ:120:LEU:HD21	2.17	0.75
39:Cq:26:LYS:NZ	39:Cq:91:THR:C	2.43	0.75
41:CO:203:VAL:O	44:CM:100:ARG:CG	2.32	0.75
45:Ca:86:THR:O	45:Ca:89:ASN:HB2	1.87	0.75
48:CD:118:ILE:HG23	48:CD:135:ILE:CD1	2.16	0.75
49:CQ:146:ARG:O	49:CQ:148:VAL:N	2.20	0.75
51:CA:189:TYR:HD1	51:CA:195:CYS:SG	2.08	0.75
53:CT:7:LYS:HE3	53:CT:54:HIS:HD2	0.92	0.75
57:CY:61:HIS:HE1	57:CY:62:TYR:CE2	1.94	0.75
58:CW:79:GLN:HB3	58:CW:94:ARG:HH22	1.50	0.75
67:Ce:54:LEU:HD23	67:Ce:60:TYR:OH	1.87	0.75
74:CC:214:ASP:O	74:CC:214:ASP:CG	2.30	0.75
75:Cm:95:ILE:HD11	75:Cm:124:LYS:HG2	1.67	0.75
80:CH:45:LEU:HD23	80:CH:57:VAL:HG12	0.76	0.75
80:CH:89:ARG:HD3	80:CH:91:LYS:CE	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:190:HIS:HB3	81:CE:193:PHE:HD1	1.51	0.75
81:CE:195:ILE:HG21	81:CE:288:PHE:CE2	2.22	0.75
82:CG:76:VAL:CG1	82:CG:81:ASN:OD1	2.35	0.75
82:CG:95:LEU:CD2	82:CG:222:ILE:HD11	2.16	0.75
82:CG:190:LEU:O	82:CG:199:CYS:SG	2.43	0.75
82:CG:229:ARG:HG2	82:CG:233:ILE:CD1	2.16	0.75
85:A5:2370:A:H8	85:A5:2370:A:H5'	1.51	0.75
1:Az:113:SER:CB	1:Az:499:PHE:CB	2.62	0.75
1:Az:675:ILE:HG22	1:Az:721:ILE:CD1	2.17	0.75
1:Az:739:ARG:NH1	1:Az:823:ASP:CB	2.41	0.75
2:Ag:48:ASP:CG	2:Ag:49:GLU:OE1	2.29	0.75
2:Ag:168:CYS:HB3	2:Ag:198:VAL:HG21	1.68	0.75
8:AS:39:ARG:NH2	14:AT:38:LYS:HG2	2.02	0.75
11:AL:147:LYS:HG3	11:AL:148:ALA:CB	2.16	0.75
12:AR:24:LEU:HD12	12:AR:58:MET:HE3	1.68	0.75
14:AT:75:MET:O	14:AT:78:ILE:HG22	1.87	0.75
15:AB:31:TYR:CD1	15:AB:94:LYS:CA	2.68	0.75
18:AY:99:LYS:O	18:AY:99:LYS:HG2	1.86	0.75
25:Af:105:TYR:O	25:Af:106:TYR:HD2	1.69	0.75
26:AJ:16:PRO:HD3	26:AJ:44:TRP:CE2	2.22	0.75
28:AC:183:LYS:HE3	32:AW:95:PRO:HA	1.68	0.75
28:AC:196:ILE:HB	28:AC:223:TYR:HB2	1.68	0.75
30:AF:14:THR:CG2	34:AQ:56:LEU:HD13	2.16	0.75
31:AH:9:VAL:HG13	31:AH:44:ASN:OD1	1.86	0.75
31:AH:135:PHE:HD2	31:AH:136:PRO:HD3	1.51	0.75
33:AI:82:VAL:HG11	33:AI:202:ILE:HD13	1.69	0.75
35:Ah:152:SER:OG	35:Ah:154:ASP:C	2.29	0.75
38:Cz:36:ILE:HD11	38:Cz:201:VAL:CG1	2.17	0.75
38:Cz:110:PHE:HE2	38:Cz:133:LYS:HD3	1.52	0.75
39:Cq:77:LYS:O	39:Cq:80:PRO:CD	2.32	0.75
40:CK:161:GLU:N	40:CK:163:PRO:HD3	2.01	0.75
42:CL:29:PRO:HD2	42:CL:30:ALA:N	2.02	0.75
45:Ca:11:LEU:O	45:Ca:14:HIS:CD2	2.39	0.75
45:Ca:92:LYS:HA	45:Ca:93:ASN:CB	2.14	0.75
49:CQ:38:ARG:CB	74:CC:302:LEU:CD2	2.64	0.75
56:CX:60:TYR:HE2	61:Ch:78:TYR:HB2	1.02	0.75
56:CX:128:ILE:CG2	73:Cl:10:LYS:HZ2	2.00	0.75
60:Cr:50:GLY:N	60:Cr:64:ILE:HG22	2.01	0.75
60:Cr:60:VAL:HG22	60:Cr:85:ASN:OD1	1.86	0.75
63:CB:219:VAL:HG13	63:CB:345:LEU:HD23	1.64	0.75
69:Cg:37:LYS:CD	69:Cg:60:ARG:NH1	2.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:Ck:23:VAL:CG2	72:Ck:64:LEU:HD11	2.14	0.75
80:CH:18:ILE:CG2	80:CH:27:VAL:HG22	2.16	0.75
82:CG:71:TYR:CD2	82:CG:71:TYR:C	2.63	0.75
82:CG:98:LEU:CD2	82:CG:215:LEU:CD2	2.64	0.75
82:CG:240:ASN:O	82:CG:241:VAL:HG12	1.87	0.75
82:CG:243:GLY:C	82:CG:244:PRO:CD	2.59	0.75
83:Ct:31:LEU:HD21	84:Cv:30:VAL:CG2	2.15	0.75
1:Az:10:ARG:HH22	1:Az:465:PRO:HD3	1.47	0.74
1:Az:42:LYS:HE2	1:Az:79:TYR:HH	1.48	0.74
1:Az:420:LEU:N	1:Az:420:LEU:HD23	1.94	0.74
1:Az:766:LYS:CG	1:Az:788:LEU:HD11	2.17	0.74
2:Ag:2:THR:HG23	2:Ag:3:GLU:CG	2.16	0.74
2:Ag:143:GLN:CG	2:Ag:144:ASP:N	2.32	0.74
2:Ag:228:TYR:OH	2:Ag:261:LEU:HD12	1.87	0.74
3:AU:19:ARG:HG3	3:AU:92:HIS:ND1	2.02	0.74
3:AU:47:ASN:CG	3:AU:47:ASN:O	2.29	0.74
3:AU:108:PRO:O	3:AU:109:GLY:C	2.30	0.74
5:AO:31:CYS:SG	5:AO:93:LEU:CB	2.75	0.74
6:AX:76:LYS:O	6:AX:77:ASN:OD1	2.04	0.74
7:AM:14:VAL:O	7:AM:15:ASN:OD1	2.04	0.74
8:AS:8:LYS:C	19:AZ:49:LEU:CD2	2.60	0.74
12:AR:16:ILE:HG22	12:AR:24:LEU:HD11	1.68	0.74
12:AR:20:TYR:CD2	12:AR:38:ILE:HD13	2.22	0.74
13:AP:74:GLU:O	13:AP:75:VAL:HB	1.86	0.74
16:AA:13:GLU:O	16:AA:17:LYS:CE	2.28	0.74
16:AA:125:THR:CG2	16:AA:175:TRP:HE1	1.99	0.74
18:AY:51:THR:HB	18:AY:52:PRO:CD	2.14	0.74
26:AJ:28:GLU:OE1	26:AJ:40:LYS:NZ	2.20	0.74
27:AE:87:MET:HE2	27:AE:182:MET:HE1	1.69	0.74
28:AC:130:ILE:HD12	28:AC:158:ALA:HB3	1.68	0.74
29:AG:162:LEU:CD2	29:AG:170:ARG:HB2	2.17	0.74
30:AF:41:VAL:CG2	30:AF:42:LYS:CD	2.64	0.74
30:AF:42:LYS:CG	30:AF:42:LYS:O	2.28	0.74
30:AF:63:LYS:CD	30:AF:71:ARG:NH2	2.35	0.74
30:AF:122:ARG:O	30:AF:141:VAL:CG1	2.21	0.74
33:AI:141:ARG:HB2	33:AI:144:LYS:CA	2.16	0.74
34:AQ:48:GLN:O	34:AQ:51:LEU:HG	1.87	0.74
34:AQ:54:PRO:HG3	34:AQ:88:ILE:HD12	1.66	0.74
38:Cz:204:LEU:HD22	38:Cz:216:LEU:HD21	1.67	0.74
39:Cq:171:GLU:O	39:Cq:174:LEU:HG	1.87	0.74
41:CO:20:ALA:CB	41:CO:87:MET:CE	2.61	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:64:SER:CB	49:CQ:92:VAL:CG2	2.64	0.74
50:CR:60:ARG:HD3	50:CR:60:ARG:N	2.02	0.74
55:CU:94:ASN:O	55:CU:95:ASN:HB2	1.87	0.74
57:CY:47:MET:CE	57:CY:48:PRO:CD	2.61	0.74
57:CY:50:ARG:CD	57:CY:115:ARG:NH2	2.44	0.74
58:CW:79:GLN:CB	58:CW:94:ARG:HH22	2.00	0.74
60:Cr:15:SER:CB	74:CC:139:SER:O	2.34	0.74
60:Cr:55:ALA:HB3	60:Cr:62:VAL:HG23	1.68	0.74
63:CB:77:THR:HA	63:CB:78:ILE:HG23	1.68	0.74
63:CB:106:PHE:CE2	63:CB:110:ILE:HD12	2.19	0.74
66:Cd:80:VAL:HG13	66:Cd:81:PRO:CD	2.11	0.74
68:Cf:32:GLY:O	81:CE:284:HIS:CG	2.39	0.74
74:CC:51:PRO:HB3	74:CC:111:TRP:NE1	2.02	0.74
74:CC:58:ALA:O	74:CC:59:GLY:C	2.30	0.74
74:CC:60:HIS:H	74:CC:60:HIS:CD2	2.05	0.74
74:CC:295:SER:HG	74:CC:298:ILE:HB	1.51	0.74
74:CC:345:ARG:HH11	74:CC:345:ARG:CG	1.95	0.74
81:CE:95:PRO:O	81:CE:96:VAL:CB	2.34	0.74
81:CE:165:LEU:CD1	81:CE:174:LEU:CD2	2.65	0.74
81:CE:181:LEU:HD21	81:CE:268:GLN:HG3	1.64	0.74
81:CE:219:LYS:HE2	85:A5:1291:G:H5"	1.67	0.74
82:CG:117:ARG:CG	82:CG:130:THR:HG23	2.10	0.74
82:CG:189:ARG:HG3	82:CG:190:LEU:HD22	1.68	0.74
83:Ct:11:TYR:HB3	84:Cv:9:LEU:CD2	2.17	0.74
1:Az:296:PRO:HA	1:Az:299:LYS:HE3	1.66	0.74
1:Az:396:MET:CE	1:Az:472:LEU:HD11	2.13	0.74
2:Ag:17:TRP:N	2:Ag:36:ARG:HG3	2.03	0.74
3:Au:109:GLY:O	3:Au:110:VAL:HG22	1.86	0.74
5:AO:19:PRO:HG3	5:AO:27:VAL:CG1	2.17	0.74
13:AP:10:ARG:HE	13:AP:11:THR:HB	1.52	0.74
16:AA:174:MET:O	16:AA:178:LEU:HG	1.86	0.74
18:AY:7:ILE:CD1	18:AY:43:LYS:HD3	2.16	0.74
23:AD:2:ALA:C	23:AD:4:GLN:H	1.94	0.74
24:Ae:28:LYS:HE3	24:Ae:32:ALA:O	1.86	0.74
29:AG:142:ARG:CG	29:AG:142:ARG:NH1	2.47	0.74
29:AG:142:ARG:NH2	29:AG:152:ASP:H	1.84	0.74
33:AI:104:ILE:HG13	33:AI:105:ASP:H	1.52	0.74
35:Ah:297:GLN:O	35:Ah:297:GLN:CD	2.30	0.74
38:Cz:46:ASP:HA	38:Cz:48:ARG:HH11	1.51	0.74
39:Cq:139:GLN:O	39:Cq:140:ALA:C	2.30	0.74
39:Cq:184:SER:O	39:Cq:185:PHE:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:260:PRO:N	39:Cq:264:LYS:CG	2.50	0.74
46:CN:116:LEU:HD13	46:CN:151:ILE:CD1	2.05	0.74
46:CN:180:PHE:C	46:CN:184:ILE:HD12	2.11	0.74
47:CI:68:ALA:CB	47:CI:159:PHE:CZ	2.70	0.74
48:CD:200:MET:HE1	48:CD:244:HIS:HE1	1.49	0.74
48:CD:271:MET:O	48:CD:272:SER:O	2.04	0.74
49:CQ:88:ASP:O	49:CQ:89:ASP:OD1	2.05	0.74
52:CS:19:THR:O	52:CS:20:PRO:C	2.29	0.74
52:CS:164:LYS:NZ	52:CS:164:LYS:HA	2.02	0.74
57:CY:45:ARG:O	57:CY:45:ARG:HD3	1.87	0.74
59:CZ:29:ILE:O	59:CZ:30:ASP:C	2.24	0.74
60:Cr:90:LEU:HD22	60:Cr:118:LEU:CG	2.17	0.74
63:CB:41:VAL:N	63:CB:187:GLY:CA	2.50	0.74
74:CC:213:GLU:O	74:CC:213:GLU:CD	2.30	0.74
77:Cp:50:ARG:O	77:Cp:50:ARG:CG	2.33	0.74
80:CH:109:GLY:CA	80:CH:110:SER:HB3	2.17	0.74
81:CE:112:MET:O	81:CE:116:TYR:N	2.19	0.74
82:CG:121:LYS:O	82:CG:125:LYS:C	2.29	0.74
82:CG:150:LYS:HG3	82:CG:177:MET:HE3	1.69	0.74
84:Cu:16:SER:OG	84:Cu:22:ASP:OD2	2.05	0.74
85:A5:1756:U:O4	85:A5:1775:A:N1	2.20	0.74
1:Az:191:THR:HG22	1:Az:192:TYR:CD1	2.22	0.74
1:Az:271:GLY:O	1:Az:272:LYS:HG2	1.87	0.74
2:Ag:191:HIS:CD2	2:Ag:195:LEU:HD11	2.21	0.74
3:AU:59:LYS:CB	3:AU:84:ILE:HG22	2.12	0.74
6:AX:14:ARG:CA	11:AL:99:TYR:HH	1.78	0.74
7:AM:33:ARG:HD2	7:AM:33:ARG:O	1.87	0.74
13:AP:10:ARG:NE	13:AP:11:THR:N	2.34	0.74
15:AB:71:LEU:CG	15:AB:84:PHE:HE2	1.99	0.74
20:Aa:28:ARG:HH12	20:Aa:30:VAL:CG2	1.77	0.74
20:Aa:108:PRO:O	22:Ac:66:ARG:HD3	1.87	0.74
21:Ab:62:VAL:HG22	21:Ab:74:THR:HG21	1.68	0.74
23:AD:216:GLU:C	23:AD:216:GLU:OE1	2.30	0.74
27:AE:43:PRO:CD	27:AE:46:ILE:HD12	2.16	0.74
27:AE:92:ILE:CB	27:AE:97:GLU:OE1	2.34	0.74
27:AE:185:GLY:N	27:AE:189:LEU:HD13	2.01	0.74
30:AF:76:MET:HE2	30:AF:169:ILE:CG2	2.17	0.74
33:AI:9:HIS:O	33:AI:10:LYS:HG2	1.86	0.74
38:Cz:65:VAL:HG21	38:Cz:147:LYS:HE3	1.69	0.74
38:Cz:93:LEU:O	38:Cz:93:LEU:HD23	1.88	0.74
40:CK:62:LEU:HD23	40:CK:75:PRO:HB3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:141:CYS:O	40:CK:142:ASN:HB3	1.87	0.74
48:CD:9:ASN:O	48:CD:13:PHE:CD2	2.40	0.74
48:CD:233:PRO:HA	48:CD:236:MET:HE3	1.67	0.74
49:CQ:53:MET:CE	49:CQ:143:ARG:HH21	2.00	0.74
52:CS:47:PHE:HE1	52:CS:125:GLN:HG2	1.50	0.74
52:CS:127:MET:O	52:CS:128:LYS:HG3	1.87	0.74
54:CP:93:HIS:O	54:CP:95:LEU:N	2.20	0.74
61:Ch:113:LEU:O	61:Ch:114:TYR:CD1	2.40	0.74
62:Cb:37:PRO:O	62:Cb:38:LYS:C	2.30	0.74
63:CB:76:VAL:C	63:CB:77:THR:HG22	2.11	0.74
67:Ce:129:LEU:HD23	67:Ce:130:ARG:H	0.60	0.74
79:CJ:135:GLY:N	79:CJ:157:ILE:HD11	2.01	0.74
80:CH:123:ILE:CG2	80:CH:125:ARG:HH21	2.00	0.74
81:CE:121:VAL:CG1	81:CE:122:PRO:CD	2.61	0.74
81:CE:222:LEU:O	81:CE:222:LEU:CD2	2.30	0.74
82:CG:42:GLY:O	82:CG:43:GLN:CD	2.30	0.74
82:CG:63:LEU:HB3	82:CG:67:ARG:HH12	1.51	0.74
82:CG:143:VAL:CG1	82:CG:146:LEU:HD11	2.16	0.74
85:A5:2324:C:H2'	85:A5:2325:C:C6	2.22	0.74
1:Az:56:PHE:CE2	1:Az:455:GLY:HA3	1.89	0.74
1:Az:509:VAL:HG21	1:Az:546:ILE:CD1	2.14	0.74
1:Az:567:CYS:O	1:Az:568:ILE:HD12	1.87	0.74
1:Az:628:LEU:HD23	1:Az:631:ARG:CZ	2.18	0.74
1:Az:662:LEU:HD11	1:Az:683:PHE:HB2	1.66	0.74
3:AU:56:MET:CE	3:AU:88:LEU:HD23	2.17	0.74
5:AO:30:VAL:HG23	5:AO:32:HIS:CD2	2.22	0.74
6:AX:60:LYS:CG	6:AX:116:PRO:CG	2.58	0.74
6:AX:105:PHE:CD2	6:AX:119:ARG:HA	2.21	0.74
8:AS:42:HIS:CB	14:AT:45:LEU:HD11	2.17	0.74
8:AS:82:TRP:HA	8:AS:87:GLN:HE22	1.52	0.74
14:AT:30:VAL:O	14:AT:31:PRO:C	2.29	0.74
15:AB:131:ASP:CG	15:AB:180:ASP:HB2	2.12	0.74
18:AY:33:ALA:C	18:AY:34:THR:OG1	2.29	0.74
30:AF:32:ASP:HB2	30:AF:117:ILE:HG21	1.67	0.74
31:AH:11:PRO:HG2	31:AH:12:ASN:N	2.02	0.74
32:AW:42:MET:HE1	32:AW:50:PHE:CD2	2.20	0.74
33:AI:36:THR:HG21	33:AI:179:PRO:HB2	1.68	0.74
33:AI:165:GLN:OE1	33:AI:172:LEU:HD23	1.87	0.74
39:Cq:264:LYS:O	39:Cq:268:PHE:CD2	2.41	0.74
41:CO:64:THR:HG21	63:CB:261:ARG:HD3	0.83	0.74
47:CI:30:LYS:HG2	47:CI:63:GLU:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:111:LEU:O	47:CI:112:GLN:C	2.30	0.74
47:CI:207:ASP:OD2	47:CI:208:LYS:HD3	1.86	0.74
49:CQ:124:ASP:CG	74:CC:284:MET:HG3	2.13	0.74
51:CA:138:SER:OG	51:CA:147:ARG:HB3	1.88	0.74
54:CP:29:THR:HA	54:CP:32:THR:HG22	1.64	0.74
61:Ch:50:VAL:O	61:Ch:53:SER:OG	2.03	0.74
61:Ch:86:LYS:O	61:Ch:92:ARG:NE	2.18	0.74
63:CB:40:PRO:O	63:CB:41:VAL:HG13	1.86	0.74
63:CB:80:GLU:CD	63:CB:171:LEU:CD2	2.61	0.74
65:Cc:37:MET:SD	65:Cc:97:ILE:HG12	2.28	0.74
65:Cc:44:LYS:CE	65:Cc:97:ILE:O	2.35	0.74
74:CC:5:ARG:HA	74:CC:24:LEU:HD11	1.66	0.74
74:CC:7:LEU:CG	74:CC:21:ASN:HB3	2.17	0.74
74:CC:133:LEU:HD23	74:CC:136:LEU:CG	2.08	0.74
77:Cp:49:ARG:HB2	77:Cp:55:TRP:CZ3	2.22	0.74
78:Co:61:LYS:HG2	78:Co:61:LYS:O	1.85	0.74
78:Co:65:LYS:HG3	78:Co:85:ILE:O	1.84	0.74
81:CE:56:ARG:HB3	81:CE:65:ARG:HG2	1.69	0.74
83:Ct:32:ILE:CD1	83:Ct:39:VAL:HG21	2.15	0.74
84:Cv:10:ALA:CA	84:Cv:15:ASN:HD22	2.00	0.74
1:Az:4:PHE:CE2	1:Az:5:THR:HB	2.21	0.74
1:Az:14:ASP:O	1:Az:16:LYS:CE	2.36	0.74
1:Az:693:CYS:HB2	1:Az:838:THR:OG1	1.88	0.74
3:AU:50:VAL:O	3:AU:51:LYS:CD	2.30	0.74
5:AO:16:SER:O	5:AO:88:LEU:O	2.06	0.74
7:AM:38:ALA:O	7:AM:42:LEU:HD23	1.87	0.74
8:AS:111:LEU:CD2	8:AS:125:HIS:CE1	2.70	0.74
17:AV:19:ALA:CB	17:AV:59:ILE:HD13	2.17	0.74
23:AD:10:LYS:CE	23:AD:14:ASP:OD2	2.35	0.74
23:AD:44:THR:O	23:AD:45:ARG:HD3	1.87	0.74
23:AD:97:CYS:C	23:AD:99:ILE:N	2.45	0.74
26:AJ:15:THR:HG22	26:AJ:44:TRP:HE3	1.48	0.74
29:AG:98:ARG:HD3	29:AG:99:GLY:H	1.50	0.74
31:AH:106:ARG:HD3	36:B2:861:A:C6	2.22	0.74
33:AI:142:SER:CB	33:AI:143:LYS:HZ2	2.00	0.74
41:CO:62:MET:SD	41:CO:68:ARG:HB2	2.27	0.74
42:CL:33:ILE:HG23	42:CL:37:LYS:HE2	1.69	0.74
42:CL:130:LYS:CB	42:CL:131:PRO:HD2	2.17	0.74
42:CL:150:LEU:O	42:CL:151:THR:HB	1.86	0.74
43:CV:106:VAL:HG12	43:CV:107:ASN:O	1.87	0.74
46:CN:71:ARG:HH12	46:CN:74:PRO:CD	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:108:ARG:O	49:CQ:111:SER:OG	2.05	0.74
49:CQ:167:VAL:HG22	49:CQ:175:GLU:OE1	1.86	0.74
50:CR:10:LEU:HD23	50:CR:41:ILE:HD12	1.68	0.74
50:CR:52:ARG:O	50:CR:53:LYS:HB3	1.86	0.74
50:CR:99:MET:HE1	50:CR:127:VAL:C	2.12	0.74
50:CR:132:PHE:HD1	50:CR:137:ILE:CG2	2.01	0.74
56:CX:87:MET:O	56:CX:90:ILE:HD12	1.87	0.74
56:CX:119:ILE:HD11	56:CX:140:LEU:HD21	1.58	0.74
57:CY:52:ASP:O	57:CY:53:ASP:O	2.06	0.74
58:CW:87:LEU:O	58:CW:91:MET:HE1	1.88	0.74
60:Cr:20:ARG:HB2	67:Ce:77:PHE:CE1	2.22	0.74
67:Ce:5:ARG:NH2	67:Ce:93:LYS:HZ2	1.86	0.74
67:Ce:92:ASN:OD1	67:Ce:119:ALA:O	2.04	0.74
67:Ce:129:LEU:O	67:Ce:130:ARG:HB2	1.86	0.74
74:CC:76:ILE:HD13	74:CC:96:CYS:SG	2.28	0.74
81:CE:117:PRO:O	81:CE:119:GLU:N	2.21	0.74
81:CE:145:THR:CG2	81:CE:200:LYS:HG2	2.16	0.74
81:CE:218:LYS:HB2	81:CE:220:LYS:CE	2.16	0.74
81:CE:223:ARG:HB3	81:CE:233:PHE:HE1	1.51	0.74
82:CG:143:VAL:CA	82:CG:146:LEU:CG	2.66	0.74
83:Cs:11:TYR:HB2	84:Cu:9:LEU:HD23	0.74	0.74
1:Az:502:SER:C	1:Az:504:VAL:N	2.41	0.74
1:Az:588:ASN:OD1	1:Az:589:VAL:HG23	1.86	0.74
1:Az:745:TYR:CG	1:Az:746:LEU:N	2.55	0.74
5:AO:97:LEU:HD11	5:AO:112:ALA:HB1	1.70	0.74
8:AS:91:LYS:CD	13:AP:15:PHE:CE1	2.70	0.74
13:AP:10:ARG:O	79:CJ:91:GLU:OE2	2.04	0.74
14:AT:87:VAL:HG21	36:B2:1665:G:C2	2.23	0.74
15:AB:57:ILE:CD1	15:AB:60:ASP:CG	2.33	0.74
16:AA:58:LEU:HD23	16:AA:178:LEU:HD21	1.57	0.74
20:Aa:66:LYS:HB2	20:Aa:68:TYR:CE2	2.22	0.74
25:Af:151:ASN:O	25:Af:151:ASN:OD1	2.04	0.74
27:AE:86:PHE:O	27:AE:87:MET:HB2	1.86	0.74
27:AE:149:TYR:HD2	29:AG:205:GLU:HB3	1.51	0.74
29:AG:71:GLY:HA2	29:AG:98:ARG:NH2	2.02	0.74
30:AF:41:VAL:HG22	30:AF:42:LYS:HD2	1.69	0.74
30:AF:116:ILE:N	30:AF:116:ILE:CD1	2.39	0.74
31:AH:106:ARG:HD3	36:B2:861:A:C5	2.22	0.74
39:Cq:36:GLY:C	39:Cq:38:LYS:N	2.43	0.74
39:Cq:63:LYS:CE	39:Cq:82:ILE:HD11	2.16	0.74
39:Cq:80:PRO:O	39:Cq:81:HIS:ND1	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:222:VAL:HG13	84:Cu:4:VAL:HG12	1.68	0.74
41:CO:16:LEU:HD21	41:CO:41:ILE:HD13	1.62	0.74
42:CL:64:VAL:CA	42:CL:67:HIS:HD2	1.89	0.74
42:CL:117:LEU:O	42:CL:121:ARG:HG2	1.87	0.74
46:CN:186:GLY:HA3	46:CN:191:ALA:N	2.03	0.74
48:CD:56:THR:C	48:CD:58:ARG:HD3	2.13	0.74
52:CS:45:TRP:CZ3	52:CS:55:LYS:O	2.39	0.74
53:CT:132:PRO:CG	64:CF:126:ASN:HD21	2.00	0.74
57:CY:110:LYS:NZ	57:CY:111:LEU:O	2.14	0.74
60:Cr:27:THR:O	60:Cr:29:PRO:N	2.20	0.74
63:CB:239:LYS:HE3	85:A5:3844:U:H5''	1.66	0.74
65:Cc:10:SER:C	65:Cc:11:LEU:HD23	2.12	0.74
69:Cg:41:ALA:HB3	69:Cg:52:ARG:NE	2.02	0.74
74:CC:271:ALA:O	74:CC:272:SER:C	2.30	0.74
79:CJ:163:MET:HE2	79:CJ:174:ILE:HD13	1.67	0.74
81:CE:203:ILE:HD11	81:CE:205:ASN:O	1.87	0.74
81:CE:242:ILE:CG1	81:CE:246:ARG:HH11	2.01	0.74
82:CG:133:PRO:O	82:CG:133:PRO:HG2	1.88	0.74
85:A5:5022:U:H4'	85:A5:5023:C:OP1	1.87	0.74
1:Az:228:PHE:CE2	1:Az:293:ILE:HG23	2.22	0.74
1:Az:749:ILE:HD12	1:Az:759:ILE:CD1	2.17	0.74
1:Az:752:PRO:O	1:Az:754:GLN:CG	2.34	0.74
2:Ag:294:ASP:C	2:Ag:296:GLN:N	2.35	0.74
4:AK:17:LYS:NZ	35:Ah:290:LEU:HD12	2.03	0.74
4:AK:60:GLU:OE1	4:AK:67:PHE:HE1	1.68	0.74
5:AO:41:PHE:CD1	5:AO:57:THR:HG22	2.23	0.74
5:AO:44:VAL:CG1	5:AO:53:ILE:HD11	2.18	0.74
13:AP:53:GLN:NE2	13:AP:80:LEU:CD1	2.43	0.74
14:AT:31:PRO:HB3	14:AT:33:TRP:CZ3	2.22	0.74
16:AA:27:GLY:O	16:AA:47:TYR:HD2	1.69	0.74
16:AA:57:LYS:NZ	17:AV:70:LEU:CG	2.50	0.74
16:AA:66:VAL:HG11	16:AA:186:ARG:CB	2.17	0.74
16:AA:94:THR:HG21	16:AA:182:VAL:CG2	2.17	0.74
16:AA:193:HIS:ND1	16:AA:194:PRO:CD	2.51	0.74
18:AY:32:LYS:HG2	18:AY:33:ALA:O	1.85	0.74
24:Ae:53:LYS:C	24:Ae:53:LYS:HD3	2.11	0.74
26:AJ:89:GLU:HB3	26:AJ:92:MET:SD	2.26	0.74
27:AE:122:LYS:HG2	27:AE:164:LEU:HD21	1.69	0.74
28:AC:65:LYS:HD2	28:AC:266:TYR:HD1	1.39	0.74
28:AC:78:LEU:HB3	28:AC:82:TYR:CZ	2.23	0.74
30:AF:86:LYS:O	30:AF:89:THR:HG22	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:146:VAL:HB	32:AW:42:MET:HE1	1.69	0.74
33:AI:76:THR:CG2	33:AI:77:ARG:N	2.51	0.74
38:Cz:98:LYS:HA	38:Cz:103:LEU:CD1	2.17	0.74
38:Cz:111:LEU:HD23	38:Cz:141:ASN:O	1.86	0.74
39:Cq:21:LEU:HD13	39:Cq:66:ARG:HB2	1.70	0.74
39:Cq:207:THR:OG1	39:Cq:210:THR:OG1	2.02	0.74
40:CK:74:VAL:O	40:CK:74:VAL:HG12	1.88	0.74
41:CO:195:VAL:HG21	44:CM:118:MET:CG	2.17	0.74
42:CL:61:CYS:O	42:CL:63:THR:N	2.21	0.74
43:CV:97:TYR:CE1	58:CW:21:TYR:HD1	2.06	0.74
45:Ca:76:ASP:HB2	45:Ca:114:LYS:HB3	1.68	0.74
47:CI:86:HIS:CD2	47:CI:139:ARG:HH12	1.88	0.74
47:CI:193:ASP:O	47:CI:194:GLY:C	2.13	0.74
48:CD:152:ARG:HG3	48:CD:152:ARG:NH1	2.03	0.74
50:CR:131:VAL:O	50:CR:131:VAL:CG1	2.36	0.74
58:CW:14:TYR:CZ	63:CB:380:GLN:HG3	2.21	0.74
63:CB:128:LYS:C	63:CB:131:THR:HG23	2.13	0.74
65:Cc:99:PRO:HD2	65:Cc:105:ILE:HG12	1.68	0.74
66:Cd:25:TYR:CE2	66:Cd:88:LEU:HD21	2.22	0.74
78:Co:65:LYS:C	78:Co:66:ILE:CD1	2.60	0.74
1:Az:3:ASN:CA	1:Az:45:ILE:O	2.28	0.74
1:Az:364:ALA:HA	1:Az:367:TYR:CE2	2.22	0.74
1:Az:693:CYS:HB3	1:Az:835:VAL:CA	2.17	0.74
2:Ag:48:ASP:O	2:Ag:49:GLU:HG3	1.86	0.74
3:AU:97:ILE:CG2	3:AU:101:ILE:HD12	2.18	0.74
5:AO:19:PRO:HG3	5:AO:27:VAL:HG21	0.75	0.74
5:AO:106:LYS:NZ	20:Aa:69:VAL:HG13	2.03	0.74
5:AO:113:GLN:OE1	20:Aa:45:VAL:O	2.05	0.74
5:AO:125:LYS:HZ1	20:Aa:58:VAL:N	1.86	0.74
6:AX:56:GLY:O	24:Ae:2:VAL:CG1	2.35	0.74
13:AP:39:ALA:HA	13:AP:42:ARG:CD	2.17	0.74
13:AP:62:LYS:CG	13:AP:65:LYS:HE2	2.18	0.74
14:AT:77:LYS:CB	14:AT:94:ARG:CD	2.48	0.74
18:AY:102:THR:HG21	18:AY:107:ARG:HE	0.92	0.74
26:AJ:178:ALA:O	26:AJ:182:GLN:CG	2.34	0.74
29:AG:63:MET:HA	29:AG:98:ARG:O	1.88	0.74
30:AF:45:TYR:C	30:AF:47:LYS:HE2	2.13	0.74
34:AQ:12:VAL:CG1	34:AQ:13:PHE:H	1.99	0.74
34:AQ:12:VAL:HG11	34:AQ:90:LYS:HB2	1.70	0.74
39:Cq:26:LYS:CE	39:Cq:94:ASP:CA	2.66	0.74
40:CK:62:LEU:O	40:CK:62:LEU:CD1	2.29	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:18:TRP:CH2	74:CC:108:TRP:CZ2	2.75	0.74
42:CL:27:ASN:C	42:CL:29:PRO:HD2	2.05	0.74
42:CL:125:ILE:HG22	42:CL:127:PHE:CD1	2.22	0.74
47:CI:169:LYS:N	47:CI:169:LYS:CD	2.47	0.74
47:CI:191:ILE:HG22	47:CI:192:PRO:CD	2.18	0.74
48:CD:197:LYS:CD	48:CD:202:GLN:HG2	2.05	0.74
51:CA:245:ARG:HD2	51:CA:245:ARG:N	2.03	0.74
54:CP:46:LYS:HD3	54:CP:46:LYS:O	1.87	0.74
55:CU:84:LYS:HE3	55:CU:102:VAL:CB	2.18	0.74
57:CY:34:LEU:HD23	57:CY:39:ARG:N	2.03	0.74
60:Cr:101:LYS:O	60:Cr:101:LYS:HE2	1.87	0.74
66:Cd:25:TYR:CE1	66:Cd:56:GLU:OE1	2.41	0.74
68:Cf:42:TYR:HH	81:CE:284:HIS:N	1.82	0.74
69:Cg:39:GLY:C	69:Cg:40:LYS:HE3	2.12	0.74
74:CC:7:LEU:CD1	74:CC:21:ASN:HB3	2.18	0.74
74:CC:17:SER:O	74:CC:18:SER:HB2	1.88	0.74
74:CC:233:SER:O	74:CC:263:LEU:CD1	2.36	0.74
75:Cm:127:VAL:HG13	75:Cm:128:LYS:CA	2.16	0.74
77:Cp:50:ARG:O	77:Cp:50:ARG:HG2	1.88	0.74
80:CH:93:ARG:CZ	80:CH:143:GLU:OE2	2.36	0.74
81:CE:51:VAL:CA	81:CE:54:ILE:HD12	2.18	0.74
84:Cu:7:TYR:HD1	84:Cu:18:PRO:HB2	1.51	0.74
1:Az:585:GLU:HB2	1:Az:737:GLN:NE2	2.03	0.74
2:Ag:40:ILE:HD11	2:Ag:80:SER:CB	2.17	0.74
2:Ag:282:GLU:OE2	2:Ag:284:PRO:HD3	1.87	0.74
7:AM:44:LYS:HD2	35:Ah:303:LYS:HZ1	1.52	0.74
11:AL:47:PRO:HG2	11:AL:116:CYS:SG	2.27	0.74
11:AL:95:TYR:HA	11:AL:102:PHE:CG	2.22	0.74
11:AL:112:HIS:HB2	11:AL:134:LEU:HD13	1.68	0.74
12:AR:84:TYR:O	12:AR:85:VAL:CG2	2.35	0.74
12:AR:121:GLN:NE2	12:AR:122:PRO:N	2.34	0.74
15:AB:72:ALA:N	15:AB:79:VAL:HG23	2.03	0.74
17:AV:40:ASP:O	17:AV:42:VAL:HG23	1.87	0.74
23:AD:53:THR:HG22	23:AD:91:VAL:HG23	1.68	0.74
25:Af:102:VAL:HG12	25:Af:103:LEU:CB	2.16	0.74
25:Af:103:LEU:O	25:Af:104:LYS:C	2.28	0.74
28:AC:277:HIS:CG	28:AC:278:THR:H	2.02	0.74
38:Cz:29:LEU:HD12	38:Cz:171:HIS:CD2	2.22	0.74
39:Cq:43:ILE:HD11	39:Cq:187:LEU:CD2	2.15	0.74
39:Cq:45:MET:CE	39:Cq:48:ARG:CG	2.66	0.74
40:CK:131:GLU:HG3	40:CK:155:ILE:CD1	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:89:ARG:HB2	43:CV:95:PHE:CZ	2.22	0.74
44:CM:25:VAL:CG1	44:CM:39:ASP:N	2.51	0.74
46:CN:56:LYS:NZ	46:CN:145:ASN:HD22	1.86	0.74
46:CN:124:ASP:O	46:CN:125:SER:C	2.30	0.74
51:CA:138:SER:OG	51:CA:147:ARG:CB	2.36	0.74
54:CP:40:HIS:CB	54:CP:43:LYS:HB2	2.17	0.74
55:CU:60:VAL:C	55:CU:75:GLU:HG2	2.11	0.74
58:CW:34:ALA:C	58:CW:37:GLU:HG3	2.13	0.74
63:CB:298:LEU:C	63:CB:300:LYS:HE3	2.12	0.74
65:Cc:44:LYS:CE	65:Cc:97:ILE:CG2	2.57	0.74
69:Cg:69:LYS:CA	69:Cg:72:LYS:NZ	2.48	0.74
74:CC:11:TYR:CE1	74:CC:16:GLU:O	2.40	0.74
74:CC:283:LYS:HB2	74:CC:283:LYS:HZ3	1.51	0.74
74:CC:341:LEU:O	74:CC:342:ARG:C	2.30	0.74
74:CC:349:LEU:O	74:CC:353:LYS:HD3	1.88	0.74
81:CE:153:LEU:C	81:CE:158:ARG:HB2	2.12	0.74
81:CE:228:GLN:N	81:CE:228:GLN:HE21	1.86	0.74
82:CG:190:LEU:HD22	82:CG:190:LEU:N	2.03	0.74
83:Cs:40:GLU:O	83:Cs:44:PRO:HG3	1.88	0.74
1:Az:37:ASP:OD2	1:Az:54:THR:CB	2.35	0.74
1:Az:321:ILE:HG23	1:Az:342:ARG:HD2	1.70	0.74
1:Az:521:VAL:O	1:Az:525:LYS:HD2	1.87	0.74
1:Az:616:ASP:OD2	1:Az:621:GLU:HB2	1.86	0.74
5:AO:100:THR:HG22	5:AO:104:ARG:HG3	1.67	0.74
8:AS:121:ARG:HG2	8:AS:131:VAL:CG1	2.17	0.74
10:AN:13:GLN:OE1	21:Ab:21:LYS:CE	2.33	0.74
10:AN:24:THR:CG2	21:Ab:84:HIS:NE2	2.50	0.74
10:AN:28:LEU:O	10:AN:29:THR:HG22	1.88	0.74
13:AP:12:PHE:CE2	79:CJ:88:LYS:CD	2.71	0.74
19:AZ:110:THR:CG2	30:AF:102:LEU:HD13	2.17	0.74
22:Ac:59:LEU:CB	30:AF:204:ARG:HH12	2.01	0.74
24:Ae:31:ARG:HG3	26:AJ:37:LEU:C	2.12	0.74
26:AJ:169:ARG:HB3	26:AJ:175:ARG:HH11	1.53	0.74
28:AC:192:LEU:CG	28:AC:227:ARG:HG3	2.18	0.74
31:AH:9:VAL:HG12	31:AH:44:ASN:CG	2.13	0.74
31:AH:146:VAL:HG23	32:AW:50:PHE:CE1	2.21	0.74
33:AI:47:ARG:HB3	33:AI:47:ARG:HH11	1.53	0.74
34:AQ:92:LEU:HG	34:AQ:96:TYR:CE2	2.23	0.74
38:Cz:26:ARG:HB3	38:Cz:28:PHE:N	2.02	0.74
40:CK:113:ALA:HA	40:CK:116:MET:SD	2.28	0.74
42:CL:70:VAL:HG11	42:CL:157:VAL:HB	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:167:ARG:NH2	42:CL:170:THR:CB	2.51	0.74
44:CM:33:GLN:CD	80:CH:61:TRP:NE1	2.45	0.74
45:Ca:119:LYS:O	45:Ca:120:GLN:C	2.21	0.74
49:CQ:97:LYS:O	49:CQ:118:GLY:HA3	1.87	0.74
51:CA:6:ARG:NH2	51:CA:198:ARG:CG	2.51	0.74
51:CA:18:ALA:HA	51:CA:193:ARG:HG2	1.69	0.74
51:CA:51:ASP:OD2	51:CA:54:ARG:CD	2.35	0.74
54:CP:18:ARG:CG	85:A5:399:G:H5''	2.16	0.74
59:CZ:14:LEU:CB	59:CZ:79:HIS:O	2.36	0.74
60:Cr:123:PRO:HA	60:Cr:126:VAL:C	2.13	0.74
63:CB:58:ARG:C	63:CB:366:LYS:HD3	2.12	0.74
63:CB:142:GLY:CA	63:CB:147:GLU:HB2	2.18	0.74
74:CC:146:GLU:O	74:CC:146:GLU:CG	2.32	0.74
74:CC:254:GLU:C	74:CC:256:ALA:H	1.95	0.74
79:CJ:128:LEU:HD13	79:CJ:130:PHE:CD2	2.09	0.74
80:CH:31:ARG:HD2	80:CH:149:ASN:OD1	1.88	0.74
82:CG:75:LYS:HD3	82:CG:240:ASN:CG	2.13	0.74
82:CG:98:LEU:CG	82:CG:215:LEU:HD21	2.18	0.74
82:CG:164:ILE:O	82:CG:168:VAL:HG23	1.87	0.74
83:Cs:7:LEU:C	84:Cv:12:LEU:HD13	2.13	0.74
83:Cs:9:CYS:SG	83:Cs:47:PHE:CE2	2.80	0.74
83:Ct:15:ILE:HG21	84:Cv:30:VAL:HG21	1.69	0.74
1:Az:640:GLU:CD	1:Az:640:GLU:O	2.31	0.73
1:Az:712:ASP:OD2	35:Ah:155:ARG:NH2	2.20	0.73
1:Az:759:ILE:HD13	1:Az:784:VAL:HG11	1.70	0.73
1:Az:791:ASN:O	1:Az:794:PHE:CZ	2.41	0.73
7:AM:12:MET:O	7:AM:13:ASP:OD1	2.05	0.73
7:AM:94:ILE:N	7:AM:101:ARG:HD3	2.03	0.73
8:AS:26:ILE:CD1	8:AS:59:LEU:HD21	2.17	0.73
8:AS:94:LYS:HD3	8:AS:95:TYR:O	1.88	0.73
8:AS:137:LYS:HG2	8:AS:138:THR:CG2	2.17	0.73
11:AL:5:GLN:O	11:AL:6:THR:C	2.31	0.73
13:AP:46:ASN:O	13:AP:49:LEU:CG	2.35	0.73
13:AP:108:LYS:O	13:AP:111:MET:CG	2.34	0.73
15:AB:113:MET:SD	15:AB:211:PHE:CZ	2.78	0.73
26:AJ:100:LEU:CG	26:AJ:101:LYS:H	2.01	0.73
27:AE:94:LYS:O	27:AE:95:THR:HG23	1.87	0.73
28:AC:256:TRP:CE2	32:AW:68:ARG:CD	2.70	0.73
29:AG:180:VAL:C	29:AG:181:THR:HG22	2.13	0.73
32:AW:93:LEU:HG	32:AW:93:LEU:O	1.88	0.73
39:Cq:28:PHE:CE1	39:Cq:192:VAL:HG22	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:93:GLU:O	39:Cq:94:ASP:CB	2.36	0.73
41:CO:12:ARG:CG	41:CO:37:ARG:NH1	2.50	0.73
41:CO:118:MET:HB3	52:CS:167:PHE:CB	2.18	0.73
41:CO:131:PRO:O	41:CO:132:THR:CB	2.35	0.73
42:CL:140:SER:O	42:CL:143:GLU:HB2	1.88	0.73
42:CL:182:LEU:HD11	45:Ca:129:PHE:CZ	2.22	0.73
46:CN:71:ARG:HH22	46:CN:73:ARG:HA	1.50	0.73
47:CI:28:ASP:HB3	47:CI:32:ARG:HH22	1.51	0.73
48:CD:207:TYR:CZ	48:CD:211:LEU:HD11	2.22	0.73
48:CD:271:MET:CE	48:CD:275:GLN:CD	2.60	0.73
50:CR:129:GLY:O	50:CR:130:ASN:CG	2.30	0.73
51:CA:255:LYS:O	51:CA:256:GLU:O	2.05	0.73
53:CT:110:LYS:O	53:CT:113:ASP:OD1	2.05	0.73
54:CP:48:LEU:HD11	54:CP:91:LEU:HD13	1.69	0.73
54:CP:64:ASN:O	54:CP:64:ASN:CG	2.28	0.73
56:CX:41:ARG:CD	82:CG:55:VAL:HG21	2.17	0.73
60:Cr:131:THR:O	60:Cr:134:THR:OG1	2.05	0.73
63:CB:77:THR:C	63:CB:78:ILE:HG23	2.10	0.73
63:CB:115:LYS:CD	63:CB:129:ALA:CB	2.61	0.73
64:CF:182:TYR:HD1	64:CF:200:ARG:CZ	2.01	0.73
74:CC:91:ALA:O	74:CC:92:PHE:C	2.29	0.73
74:CC:271:ALA:CB	74:CC:274:LYS:HB2	2.17	0.73
80:CH:81:ILE:O	80:CH:84:VAL:HG12	1.88	0.73
81:CE:47:ASN:ND2	81:CE:48:PRO:CD	2.43	0.73
81:CE:51:VAL:N	81:CE:54:ILE:HD12	2.03	0.73
81:CE:149:ILE:HD11	81:CE:161:ARG:CB	2.18	0.73
82:CG:121:LYS:CB	82:CG:126:GLY:O	2.36	0.73
83:Ct:31:LEU:HD21	84:Cv:30:VAL:HG22	1.66	0.73
1:Az:79:TYR:CG	1:Az:351:LEU:HD13	2.23	0.73
1:Az:224:THR:OG1	1:Az:227:GLN:HG3	1.88	0.73
1:Az:398:ILE:CD1	1:Az:479:LEU:HD23	2.17	0.73
2:Ag:168:CYS:HB3	2:Ag:198:VAL:CG2	2.18	0.73
8:AS:34:LYS:C	8:AS:103:LEU:CD2	2.61	0.73
11:AL:113:LEU:CD1	11:AL:120:VAL:HG21	2.13	0.73
15:AB:225:LEU:O	15:AB:229:MET:HG2	1.87	0.73
17:AV:47:ASN:O	17:AV:48:GLY:C	2.30	0.73
18:AY:18:LEU:HB2	18:AY:20:ARG:NH1	2.00	0.73
24:Ae:41:ARG:O	24:Ae:45:VAL:CG1	2.33	0.73
26:AJ:61:LEU:HD13	26:AJ:94:LEU:HD11	1.71	0.73
27:AE:229:GLY:CA	27:AE:235:TRP:CD1	2.71	0.73
28:AC:169:TYR:CZ	28:AC:177:PRO:CD	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:142:ARG:CD	29:AG:147:LEU:HB2	2.07	0.73
29:AG:164:LYS:C	29:AG:166:GLY:N	2.44	0.73
31:AH:71:SER:O	31:AH:74:LYS:HB2	1.88	0.73
31:AH:83:LEU:HD22	31:AH:92:VAL:CG1	2.05	0.73
35:Ah:152:SER:CA	35:Ah:153:VAL:HB	2.15	0.73
38:Cz:41:TYR:CE1	38:Cz:43:PRO:HA	2.23	0.73
39:Cq:245:TYR:OH	83:Ct:56:ILE:HG23	1.89	0.73
39:Cq:259:PHE:CE1	84:Cv:1:MET:N	2.55	0.73
40:CK:50:THR:HG21	40:CK:72:GLU:O	1.88	0.73
46:CN:64:ILE:CD1	46:CN:102:ALA:CB	2.66	0.73
48:CD:254:GLU:OE2	48:CD:254:GLU:CA	2.36	0.73
49:CQ:6:ARG:NE	64:CF:110:GLN:HA	2.04	0.73
49:CQ:92:VAL:HG12	49:CQ:94:GLU:O	1.88	0.73
51:CA:60:LYS:HG2	51:CA:75:LEU:HD23	1.70	0.73
51:CA:107:MET:HE3	51:CA:136:VAL:CG2	2.18	0.73
51:CA:254:GLU:HB3	51:CA:255:LYS:CB	2.18	0.73
55:CU:48:LYS:HG3	55:CU:52:LYS:CG	2.17	0.73
57:CY:52:ASP:O	57:CY:53:ASP:C	2.31	0.73
58:CW:106:GLU:HG3	58:CW:110:ARG:HH11	0.93	0.73
63:CB:92:TYR:HB3	63:CB:99:LEU:CD2	2.18	0.73
63:CB:133:TYR:O	63:CB:136:LYS:HG3	1.88	0.73
66:Cd:21:VAL:O	66:Cd:22:THR:CG2	2.37	0.73
68:Cf:22:ARG:HD2	68:Cf:22:ARG:N	2.02	0.73
72:Ck:36:VAL:O	72:Ck:42:LEU:HD12	1.88	0.73
73:Cl:2:SER:C	73:Cl:4:HIS:H	1.96	0.73
80:CH:107:GLU:HB2	80:CH:108:ASN:O	1.88	0.73
81:CE:157:HIS:O	81:CE:160:LYS:HG3	1.88	0.73
84:Cv:10:ALA:HB1	84:Cv:15:ASN:HB2	1.68	0.73
85:A5:1755:C:H3'	85:A5:1756:U:H5''	1.67	0.73
85:A5:1927:U:H3	85:A5:2056:G:H1	1.34	0.73
1:Az:60:ARG:O	1:Az:61:LYS:C	2.31	0.73
1:Az:157:MET:CE	1:Az:214:PHE:CE1	2.69	0.73
1:Az:501:VAL:O	1:Az:502:SER:C	2.30	0.73
1:Az:787:TYR:CE1	1:Az:815:ASP:OD2	2.42	0.73
2:Ag:43:TRP:CZ3	2:Ag:55:PRO:HD3	2.22	0.73
2:Ag:277:THR:HG23	2:Ag:278:SER:N	2.02	0.73
17:AV:78:ILE:C	17:AV:78:ILE:CB	2.60	0.73
23:AD:123:LEU:HD11	23:AD:154:ASP:HB2	1.68	0.73
23:AD:161:GLY:O	23:AD:164:VAL:HG12	1.88	0.73
23:AD:193:ASP:O	23:AD:194:PRO:O	2.06	0.73
26:AJ:172:ARG:NH2	36:B2:562:U:C5	2.57	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:32:MET:SD	29:AG:100:CYS:O	2.46	0.73
33:AI:141:ARG:O	33:AI:143:LYS:CB	2.36	0.73
33:AI:182:CYS:SG	36:B2:305:U:C5	2.81	0.73
34:AQ:135:PRO:HD2	34:AQ:141:TYR:CD1	2.21	0.73
35:Ah:179:MET:CG	35:Ah:181:ARG:HG2	2.16	0.73
38:Cz:65:VAL:HG11	38:Cz:147:LYS:HE3	1.69	0.73
38:Cz:67:VAL:HG21	38:Cz:82:ILE:HG21	1.69	0.73
39:Cq:69:LEU:C	39:Cq:71:ASN:N	2.45	0.73
39:Cq:96:THR:N	39:Cq:204:LEU:HD21	2.03	0.73
40:CK:10:ILE:HB	40:CK:66:ASN:CA	2.13	0.73
40:CK:55:GLY:O	40:CK:56:LEU:HD23	1.88	0.73
46:CN:184:ILE:HG22	46:CN:185:GLY:N	1.96	0.73
48:CD:19:LYS:HB3	48:CD:23:ARG:HG2	1.69	0.73
51:CA:84:THR:O	77:Cp:62:LYS:CE	2.35	0.73
52:CS:113:MET:HG3	52:CS:124:ILE:CD1	2.18	0.73
55:CU:37:ALA:CA	55:CU:65:ARG:HH12	2.02	0.73
55:CU:40:GLU:OE2	55:CU:70:ILE:HA	1.88	0.73
59:CZ:21:ARG:HD2	59:CZ:49:TYR:OH	1.87	0.73
59:CZ:33:THR:CG2	59:CZ:40:HIS:HE1	1.93	0.73
60:Cr:30:ASN:HD21	60:Cr:48:THR:HB	1.54	0.73
63:CB:112:ASP:HA	63:CB:115:LYS:HB3	1.69	0.73
66:Cd:114:PHE:C	66:Cd:115:LYS:HG3	2.12	0.73
71:Cj:54:LYS:HE3	71:Cj:58:THR:HG22	1.70	0.73
74:CC:266:THR:HG23	74:CC:268:ARG:N	2.03	0.73
74:CC:283:LYS:CB	74:CC:283:LYS:HZ3	2.01	0.73
77:Cp:36:LYS:NZ	77:Cp:46:LYS:NZ	2.35	0.73
79:CJ:84:GLU:HA	79:CJ:87:LEU:HD12	1.71	0.73
81:CE:94:LYS:N	81:CE:95:PRO:HD2	2.02	0.73
81:CE:116:TYR:N	81:CE:117:PRO:CD	2.50	0.73
82:CG:190:LEU:CD2	82:CG:190:LEU:H	2.00	0.73
83:Ct:15:ILE:CG2	84:Cv:30:VAL:HG21	2.17	0.73
1:Az:27:HIS:NE2	1:Az:28:VAL:HG22	2.03	0.73
1:Az:613:LEU:HD13	1:Az:639:TYR:HB2	1.70	0.73
2:Ag:2:THR:C	2:Ag:3:GLU:HG2	2.13	0.73
2:Ag:261:LEU:CA	2:Ag:264:LYS:HE3	2.18	0.73
2:Ag:284:PRO:O	2:Ag:284:PRO:HG2	1.88	0.73
4:AK:83:LEU:HB2	4:AK:85:LEU:CG	2.18	0.73
6:AX:89:GLY:O	6:AX:92:ASN:HB2	1.88	0.73
10:AN:25:TRP:CD1	21:Ab:83:GLN:CB	2.72	0.73
10:AN:92:ILE:O	10:AN:96:VAL:HG23	1.87	0.73
11:AL:80:MET:HG3	11:AL:86:ILE:HG22	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:151:THR:O	11:AL:153:LYS:CD	2.33	0.73
13:AP:49:LEU:CD1	13:AP:51:ARG:NH2	2.51	0.73
13:AP:49:LEU:C	13:AP:51:ARG:CD	2.62	0.73
17:AV:23:ILE:HD13	28:AC:249:SER:O	1.86	0.73
17:AV:45:ARG:O	17:AV:46:PHE:C	2.30	0.73
21:Ab:2:PRO:C	21:Ab:3:LEU:CD2	2.58	0.73
23:AD:74:GLN:HB2	23:AD:84:VAL:CG1	2.19	0.73
23:AD:115:VAL:CB	35:Ah:178:GLY:H	1.99	0.73
26:AJ:87:LEU:HD11	26:AJ:91:LYS:HB2	1.70	0.73
27:AE:98:ASN:HD21	27:AE:119:ALA:CA	2.02	0.73
31:AH:32:MET:O	31:AH:33:ASN:CG	2.30	0.73
36:B2:1601:A:H5'	36:B2:1602:U:C5	2.24	0.73
38:Cz:68:LEU:HD13	38:Cz:90:LEU:HD21	1.70	0.73
38:Cz:82:ILE:HG13	38:Cz:83:PRO:HD2	1.69	0.73
39:Cq:86:VAL:HG12	39:Cq:87:GLY:N	2.03	0.73
39:Cq:111:ALA:CB	39:Cq:183:PHE:CZ	2.72	0.73
39:Cq:245:TYR:CE2	83:Ct:14:LEU:HD21	2.22	0.73
40:CK:1:MET:N	40:CK:2:PRO:HB3	2.02	0.73
41:CO:121:PRO:CD	41:CO:122:ALA:H	2.00	0.73
42:CL:150:LEU:O	42:CL:151:THR:CB	2.36	0.73
47:CI:69:ARG:NH1	47:CI:70:ILE:CG1	2.51	0.73
49:CQ:110:ARG:HH21	49:CQ:120:ILE:HD12	1.49	0.73
49:CQ:161:SER:HG	49:CQ:162:HIS:CE1	2.05	0.73
51:CA:31:ALA:H	51:CA:123:ARG:NH2	1.86	0.73
52:CS:19:THR:O	52:CS:21:LYS:HG2	1.88	0.73
53:CT:148:PRO:O	53:CT:148:PRO:HD2	1.86	0.73
60:Cr:51:VAL:CG2	60:Cr:113:ARG:CB	2.21	0.73
62:Cb:37:PRO:C	62:Cb:39:PHE:H	1.97	0.73
63:CB:173:LEU:HD12	63:CB:342:LYS:CE	2.07	0.73
65:Cc:52:CYS:SG	65:Cc:53:PRO:HD2	2.28	0.73
68:Cf:54:LYS:CD	68:Cf:54:LYS:N	2.49	0.73
74:CC:109:ARG:NE	74:CC:111:TRP:HH2	1.87	0.73
74:CC:144:ILE:HD11	74:CC:249:PHE:CD1	2.17	0.73
77:Cp:29:ILE:O	77:Cp:33:GLN:HG2	1.89	0.73
80:CH:44:GLU:OE2	80:CH:46:SER:OG	2.06	0.73
81:CE:55:GLY:HA3	81:CE:62:MET:H	1.52	0.73
82:CG:86:ALA:HB1	82:CG:226:TYR:OH	1.88	0.73
82:CG:98:LEU:CG	82:CG:215:LEU:CD2	2.66	0.73
84:Cu:23:ILE:HG22	84:Cu:39:LEU:HD22	1.68	0.73
85:A5:1757:U:H2'	85:A5:1758:G:O4'	1.89	0.73
87:A8:94:G:H1'	87:A8:95:A:OP1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:208:VAL:HG22	1:Az:261:TRP:HB3	1.70	0.73
1:Az:562:GLU:HB3	1:Az:570:ILE:HG13	1.71	0.73
2:Ag:306:LEU:HD23	2:Ag:307:VAL:N	2.04	0.73
7:AM:35:ILE:HB	7:AM:61:TYR:HE2	1.53	0.73
12:AR:91:LEU:CB	12:AR:92:ASP:HA	2.17	0.73
13:AP:80:LEU:O	13:AP:116:LEU:HD12	1.89	0.73
18:AY:87:PRO:HG2	18:AY:90:ARG:HB2	1.67	0.73
21:Ab:25:VAL:CG2	32:AW:53:ILE:CG2	2.65	0.73
23:AD:117:ARG:HA	35:Ah:186:ASP:CG	2.13	0.73
27:AE:180:LEU:HD13	27:AE:228:ILE:HD11	1.70	0.73
29:AG:130:PRO:HB2	58:CW:83:THR:HG22	1.69	0.73
29:AG:162:LEU:HD23	29:AG:172:LYS:NZ	2.03	0.73
34:AQ:8:GLN:HG2	34:AQ:99:TYR:HD1	1.53	0.73
39:Cq:39:GLN:CD	39:Cq:107:VAL:CG2	2.54	0.73
39:Cq:43:ILE:HD12	39:Cq:187:LEU:CD2	2.16	0.73
39:Cq:212:HIS:HE1	83:Cs:54:VAL:CG1	2.02	0.73
40:CK:53:TRP:N	40:CK:53:TRP:CD1	2.51	0.73
41:CO:127:VAL:O	52:CS:158:VAL:CG2	2.30	0.73
42:CL:50:PRO:HG2	42:CL:51:ALA:CB	2.17	0.73
42:CL:116:ARG:HH11	42:CL:155:MET:HB2	1.50	0.73
47:CI:105:CYS:O	47:CI:108:ALA:HB3	1.88	0.73
49:CQ:110:ARG:CG	49:CQ:120:ILE:HD13	2.17	0.73
54:CP:107:LEU:N	54:CP:107:LEU:CD2	2.30	0.73
57:CY:44:VAL:HG21	57:CY:119:LEU:HD12	1.70	0.73
60:Cr:70:GLN:CB	60:Cr:71:ARG:NE	2.47	0.73
74:CC:84:THR:O	74:CC:85:HIS:C	2.20	0.73
74:CC:341:LEU:CD1	81:CE:52:ARG:HH21	1.80	0.73
84:Cu:23:ILE:HG22	84:Cu:39:LEU:HD21	1.69	0.73
84:Cu:30:VAL:O	84:Cu:30:VAL:HG12	1.89	0.73
1:Az:849:PRO:O	1:Az:849:PRO:HG2	1.86	0.73
2:Ag:144:ASP:O	2:Ag:144:ASP:CG	2.29	0.73
3:AU:107:GLU:OE2	23:AD:40:ARG:CZ	2.36	0.73
3:AU:109:GLY:C	3:AU:110:VAL:HG23	2.14	0.73
4:AK:71:LEU:CD2	4:AK:76:ILE:HD11	2.14	0.73
6:AX:14:ARG:HA	11:AL:99:TYR:HH	0.91	0.73
6:AX:52:LEU:HG	6:AX:71:ARG:O	1.88	0.73
15:AB:49:VAL:HG22	15:AB:65:ARG:CZ	2.18	0.73
15:AB:52:THR:HG22	15:AB:58:ALA:HB3	1.71	0.73
16:AA:169:HIS:HB3	16:AA:203:PHE:CZ	2.24	0.73
16:AA:180:ARG:NH1	16:AA:184:ARG:NH1	2.37	0.73
18:AY:9:THR:HB	18:AY:23:MET:HG3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:103:HIS:HD2	19:AZ:105:ALA:N	1.87	0.73
24:Ae:6:LEU:O	24:Ae:8:ARG:N	2.21	0.73
26:AJ:134:HIS:HE1	26:AJ:164:PRO:HD3	1.53	0.73
26:AJ:162:ARG:O	26:AJ:162:ARG:HG2	1.88	0.73
31:AH:10:LYS:CE	31:AH:16:PRO:C	2.61	0.73
31:AH:119:SER:O	31:AH:120:ARG:NE	2.22	0.73
32:AW:90:GLN:HB2	32:AW:94:LEU:HD12	1.71	0.73
38:Cz:91:LYS:HE2	38:Cz:96:ASN:HD21	1.53	0.73
38:Cz:120:ILE:HG23	38:Cz:121:PRO:CD	2.17	0.73
38:Cz:194:LEU:HG	38:Cz:200:ASN:HB2	1.70	0.73
39:Cq:116:ILE:CG2	39:Cq:166:LYS:CE	2.66	0.73
39:Cq:242:ILE:HG23	83:Ct:63:VAL:HG11	1.71	0.73
40:CK:39:PRO:C	40:CK:40:LYS:CG	2.60	0.73
40:CK:120:SER:O	40:CK:122:ALA:N	2.15	0.73
47:CI:69:ARG:NH1	47:CI:70:ILE:HG13	2.04	0.73
47:CI:106:ALA:C	47:CI:108:ALA:N	2.37	0.73
49:CQ:64:SER:HB3	49:CQ:92:VAL:CG2	2.18	0.73
53:CT:7:LYS:HE2	53:CT:54:HIS:CG	2.22	0.73
55:CU:58:GLY:O	55:CU:61:VAL:HG23	1.88	0.73
58:CW:12:LYS:CE	63:CB:388:PHE:HD2	2.02	0.73
63:CB:68:ASN:OD1	63:CB:69:LYS:HG2	1.89	0.73
63:CB:89:ILE:CG2	63:CB:197:ALA:HB1	2.17	0.73
65:Cc:17:ARG:CD	65:Cc:104:ILE:HG12	2.19	0.73
70:CI:25:ARG:CG	70:CI:28:ARG:NH2	2.40	0.73
74:CC:233:SER:O	74:CC:263:LEU:HD11	1.88	0.73
74:CC:350:ARG:HD2	74:CC:350:ARG:H	1.53	0.73
77:Cp:47:MET:SD	77:Cp:57:CYS:N	2.62	0.73
77:Cp:49:ARG:HB2	77:Cp:55:TRP:CE2	2.22	0.73
79:CJ:169:LYS:C	79:CJ:171:ASP:H	1.91	0.73
80:CH:45:LEU:HD21	80:CH:57:VAL:CG1	2.14	0.73
81:CE:51:VAL:CB	81:CE:52:ARG:CA	2.66	0.73
81:CE:72:LYS:O	81:CE:74:SER:HB2	1.89	0.73
81:CE:195:ILE:CG2	81:CE:288:PHE:HE2	2.02	0.73
1:Az:21:ASN:HD22	1:Az:469:ILE:HD11	1.53	0.73
1:Az:167:LEU:O	80:CH:100:PRO:CG	2.32	0.73
13:AP:108:LYS:HB3	13:AP:110:GLU:CD	2.13	0.73
14:AT:77:LYS:HA	14:AT:94:ARG:HA	1.71	0.73
18:AY:13:MET:HE3	18:AY:14:THR:CA	2.18	0.73
18:AY:19:GLN:HG2	18:AY:81:TYR:HD1	1.53	0.73
24:Ae:34:ARG:CG	26:AJ:32:ILE:HG21	2.19	0.73
26:AJ:72:PHE:CZ	27:AE:248:ILE:HD12	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:66:LEU:C	28:AC:66:LEU:CD2	2.61	0.73
28:AC:94:ILE:HD13	28:AC:162:ILE:HD12	0.79	0.73
30:AF:45:TYR:N	30:AF:45:TYR:HD1	1.85	0.73
38:Cz:36:ILE:HG13	38:Cz:203:ALA:O	1.88	0.73
38:Cz:49:PHE:HZ	38:Cz:190:LEU:CA	2.01	0.73
39:Cq:6:ARG:CD	39:Cq:10:LYS:CE	2.59	0.73
39:Cq:23:ASP:C	39:Cq:24:TYR:CD2	2.63	0.73
39:Cq:257:TYR:HE1	84:Cv:42:VAL:HA	0.64	0.73
42:CL:167:ARG:HH22	42:CL:170:THR:CB	2.02	0.73
49:CQ:168:ARG:O	49:CQ:168:ARG:CG	2.34	0.73
53:CT:50:LYS:O	53:CT:51:GLY:C	2.31	0.73
56:CX:52:LEU:HD22	56:CX:53:ARG:N	2.02	0.73
60:Cr:90:LEU:CD1	60:Cr:114:ALA:CB	2.31	0.73
63:CB:34:LYS:N	63:CB:34:LYS:CD	2.42	0.73
63:CB:62:ARG:H	63:CB:68:ASN:HD22	1.34	0.73
66:Cd:24:GLU:CD	66:Cd:122:VAL:HG22	2.14	0.73
67:Ce:74:PHE:CG	67:Ce:96:CYS:SG	2.82	0.73
74:CC:57:LEU:O	74:CC:58:ALA:HB3	1.88	0.73
80:CH:110:SER:CB	80:CH:128:MET:H	1.99	0.73
80:CH:118:LEU:HD11	80:CH:167:VAL:HG22	1.69	0.73
81:CE:127:SER:CA	81:CE:129:GLY:H	2.02	0.73
1:Az:63:GLU:HG3	1:Az:70:ILE:H	1.53	0.73
1:Az:369:CYS:SG	1:Az:385:ILE:HB	2.29	0.73
1:Az:539:GLU:O	1:Az:540:GLU:O	2.05	0.73
1:Az:831:PRO:O	1:Az:834:VAL:HG22	1.89	0.73
6:AX:60:LYS:CG	6:AX:116:PRO:HG3	2.19	0.73
6:AX:95:GLU:CD	6:AX:140:ARG:HH22	1.95	0.73
8:AS:136:THR:HG1	36:B2:1521:C:P	2.09	0.73
9:Ad:13:LYS:CD	9:Ad:14:PHE:CD2	2.67	0.73
10:AN:139:TRP:CE3	10:AN:140:LYS:N	2.57	0.73
16:AA:45:GLY:O	16:AA:46:ILE:CD1	2.36	0.73
16:AA:149:ASN:OD1	16:AA:150:THR:N	2.20	0.73
19:AZ:92:LEU:HD11	19:AZ:109:TYR:HE1	1.52	0.73
19:AZ:103:HIS:O	19:AZ:105:ALA:N	2.21	0.73
20:Aa:50:VAL:O	20:Aa:54:SER:N	2.22	0.73
23:AD:53:THR:CG2	23:AD:91:VAL:HB	2.19	0.73
26:AJ:180:LYS:O	26:AJ:180:LYS:HD2	1.88	0.73
27:AE:18:TRP:CE3	27:AE:46:ILE:HD11	2.24	0.73
31:AH:148:LEU:O	31:AH:148:LEU:HD23	1.89	0.73
32:AW:36:ARG:CD	32:AW:110:ILE:HD12	2.14	0.73
34:AQ:39:LEU:O	34:AQ:42:ILE:HD11	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:108:ILE:HA	34:AQ:111:ILE:HD12	1.71	0.73
39:Cq:120:GLU:CD	39:Cq:159:GLN:HE22	1.96	0.73
42:CL:179:PHE:CE2	42:CL:183:ARG:HG3	2.23	0.73
43:CV:9:SER:HG	43:CV:128:LEU:CD1	2.01	0.73
46:CN:41:ARG:C	46:CN:61:ILE:HD12	2.12	0.73
47:CI:52:MET:HB2	47:CI:152:LEU:HD22	1.68	0.73
48:CD:47:PRO:HB2	48:CD:66:TYR:HD1	1.43	0.73
48:CD:48:LYS:O	48:CD:66:TYR:HB2	1.88	0.73
48:CD:205:ALA:HB2	48:CD:236:MET:SD	2.29	0.73
50:CR:134:ASN:OD1	50:CR:134:ASN:C	2.32	0.73
54:CP:106:GLY:C	54:CP:107:LEU:HD23	2.14	0.73
56:CX:156:ILE:OXT	56:CX:156:ILE:HG23	1.88	0.73
60:Cr:16:PHE:CG	60:Cr:28:GLU:CG	2.71	0.73
60:Cr:42:GLY:CA	60:Cr:43:LEU:CD2	2.45	0.73
61:Ch:39:GLY:O	61:Ch:40:ALA:HB2	1.88	0.73
61:Ch:109:ARG:HH22	61:Ch:110:LYS:HG2	1.53	0.73
63:CB:39:LYS:HD3	63:CB:40:PRO:HD2	1.71	0.73
63:CB:90:VAL:CG2	63:CB:104:THR:HG23	2.18	0.73
63:CB:159:VAL:CG1	63:CB:184:GLN:NE2	2.52	0.73
63:CB:395:ASP:CA	63:CB:396:ARG:HB3	2.07	0.73
64:CF:28:LEU:O	64:CF:31:LYS:N	2.20	0.73
81:CE:45:SER:CB	81:CE:49:VAL:CB	2.43	0.73
81:CE:91:THR:O	81:CE:93:THR:HG23	1.89	0.73
81:CE:115:TYR:C	81:CE:117:PRO:CD	2.61	0.73
82:CG:89:ARG:H	82:CG:89:ARG:HE	1.37	0.73
82:CG:162:ASP:H	82:CG:163:PRO:CD	1.98	0.73
85:A5:4910:G:HO2'	85:A5:4911:A:H2'	1.53	0.73
1:Az:12:ILE:CG2	1:Az:99:LEU:HD22	2.19	0.73
1:Az:622:VAL:HG11	1:Az:635:LEU:HD21	1.70	0.73
2:Ag:100:ARG:HG3	2:Ag:100:ARG:NH1	1.89	0.73
6:AX:27:TYR:CE1	6:AX:31:HIS:CD2	2.70	0.73
7:AM:94:ILE:HG23	7:AM:95:ASP:H	0.67	0.73
8:AS:111:LEU:HD21	8:AS:125:HIS:CE1	2.24	0.73
14:AT:63:HIS:O	14:AT:67:ARG:NE	2.22	0.73
18:AY:92:ALA:HA	18:AY:97:TYR:CB	2.18	0.73
18:AY:102:THR:CB	18:AY:107:ARG:HE	2.02	0.73
19:AZ:73:VAL:HG12	19:AZ:79:ILE:CG2	2.18	0.73
23:AD:105:LEU:CD2	23:AD:184:ILE:CD1	2.56	0.73
26:AJ:21:GLU:O	26:AJ:22:LYS:C	2.31	0.73
26:AJ:90:GLY:C	26:AJ:91:LYS:O	2.24	0.73
26:AJ:138:ARG:O	26:AJ:138:ARG:CG	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:50:LYS:HA	34:AQ:53:GLU:OE2	1.87	0.73
39:Cq:120:GLU:CD	39:Cq:159:GLN:NE2	2.47	0.73
39:Cq:199:TYR:CD1	39:Cq:204:LEU:HB2	2.23	0.73
40:CK:22:VAL:HG22	40:CK:48:LYS:HA	1.70	0.73
40:CK:86:LYS:CA	40:CK:104:ILE:HG12	2.19	0.73
42:CL:154:VAL:HA	42:CL:155:MET:SD	2.29	0.73
49:CQ:154:LYS:HB3	49:CQ:155:ALA:CB	2.08	0.73
59:CZ:47:ASP:OD2	59:CZ:69:LYS:HG2	1.88	0.73
61:Ch:118:LYS:HD2	61:Ch:118:LYS:N	2.04	0.73
62:Cb:55:LYS:HZ1	62:Cb:59:ALA:CB	2.00	0.73
65:Cc:37:MET:HE3	65:Cc:43:ALA:CA	2.09	0.73
65:Cc:78:ASN:HD22	77:Cp:43:GLY:HA3	1.52	0.73
67:Ce:67:LYS:O	67:Ce:68:HIS:HB2	1.87	0.73
79:CJ:163:MET:HB3	79:CJ:174:ILE:CD1	2.19	0.73
81:CE:202:ASP:O	81:CE:260:LYS:CD	2.29	0.73
82:CG:161:VAL:HG13	82:CG:164:ILE:HA	1.69	0.73
1:Az:154:VAL:HG11	1:Az:358:LEU:HD11	1.70	0.73
2:Ag:143:GLN:NE2	2:Ag:144:ASP:H	1.86	0.73
3:AU:41:ARG:O	3:AU:45:GLU:CB	2.36	0.73
4:AK:36:ALA:C	4:AK:38:LYS:H	1.95	0.73
5:AO:113:GLN:CD	20:Aa:46:GLU:OE2	2.32	0.73
10:AN:125:LEU:CD1	10:AN:129:TYR:HE2	1.92	0.73
12:AR:44:LYS:CG	12:AR:47:ARG:NH2	2.51	0.73
13:AP:49:LEU:C	13:AP:51:ARG:N	2.45	0.73
27:AE:151:ASP:CB	29:AG:212:LEU:HD22	2.13	0.73
28:AC:237:ALA:O	28:AC:240:THR:HG22	1.89	0.73
32:AW:11:LEU:O	32:AW:14:ILE:HG13	1.88	0.73
34:AQ:98:LYS:HE3	34:AQ:99:TYR:CZ	2.24	0.73
41:CO:130:LYS:CE	41:CO:133:ARG:HH21	2.02	0.73
46:CN:46:ASP:HB3	46:CN:50:ARG:HH12	0.57	0.73
48:CD:79:TYR:HB3	48:CD:81:HIS:HD1	1.53	0.73
50:CR:44:LEU:HD22	50:CR:49:LEU:HB2	1.71	0.73
50:CR:94:THR:HA	50:CR:97:ARG:HD2	1.71	0.73
50:CR:178:GLN:HA	50:CR:181:LYS:HD3	1.69	0.73
51:CA:67:TYR:CD1	82:CG:46:GLN:CB	2.72	0.73
51:CA:245:ARG:HD2	51:CA:245:ARG:H	1.53	0.73
52:CS:82:LEU:HD23	52:CS:113:MET:HE2	1.71	0.73
55:CU:24:ASP:HB3	55:CU:111:GLU:CD	2.12	0.73
60:Cr:46:ARG:HG2	60:Cr:69:GLY:HA2	1.71	0.73
63:CB:397:ILE:O	63:CB:398:ALA:HB3	1.89	0.73
66:Cd:43:PRO:N	66:Cd:73:TRP:HZ2	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:14:TYR:OH	68:Cf:94:ALA:HB2	1.88	0.73
70:Ci:73:ILE:HD12	70:Ci:87:ARG:HG3	1.71	0.73
78:Co:66:ILE:HG13	78:Co:85:ILE:HD12	1.16	0.73
81:CE:224:LYS:O	81:CE:226:ARG:HA	1.89	0.73
82:CG:217:LYS:HE2	82:CG:217:LYS:N	2.04	0.73
84:Cv:27:LEU:HD12	84:Cv:39:LEU:HD21	1.71	0.73
1:Az:617:ILE:HG12	1:Az:622:VAL:HG23	1.71	0.72
2:Ag:71:ILE:HG22	2:Ag:72:SER:O	1.89	0.72
2:Ag:177:TRP:CZ3	2:Ag:184:LEU:HB3	2.24	0.72
3:AU:50:VAL:CG2	3:AU:52:GLY:N	2.52	0.72
5:AO:38:ASN:O	5:AO:68:GLU:OE1	2.07	0.72
11:AL:80:MET:CE	11:AL:120:VAL:HG12	2.18	0.72
13:AP:39:ALA:O	13:AP:42:ARG:HG3	1.89	0.72
13:AP:53:GLN:HE21	13:AP:80:LEU:CD2	2.02	0.72
14:AT:28:LEU:C	14:AT:28:LEU:CD2	2.61	0.72
14:AT:30:VAL:O	14:AT:32:GLU:N	2.22	0.72
14:AT:117:GLN:O	14:AT:118:ASP:HB2	1.88	0.72
21:Ab:73:LEU:CD1	21:Ab:79:PHE:CZ	2.71	0.72
23:AD:2:ALA:HB3	23:AD:3:VAL:C	2.04	0.72
26:AJ:82:VAL:HG11	26:AJ:92:MET:HE2	1.70	0.72
26:AJ:84:ILE:HD12	26:AJ:86:VAL:HG21	1.70	0.72
32:AW:3:ARG:CZ	32:AW:9:ASP:OD2	2.37	0.72
32:AW:11:LEU:CD1	32:AW:74:VAL:HB	2.17	0.72
32:AW:15:ASN:ND2	32:AW:19:LYS:HE3	2.03	0.72
36:B2:1741:U:O4	36:B2:1793:A:C2	2.42	0.72
41:CO:16:LEU:HD21	41:CO:138:LEU:HD21	1.66	0.72
42:CL:19:GLN:CB	42:CL:20:ARG:HH12	2.02	0.72
43:CV:85:ARG:HB2	43:CV:101:ASN:OD1	1.89	0.72
44:CM:35:ARG:H	44:CM:52:PHE:HE2	1.34	0.72
46:CN:178:HIS:C	46:CN:181:HIS:CD2	2.66	0.72
48:CD:20:PHE:HD2	48:CD:30:TYR:HE2	1.23	0.72
48:CD:66:TYR:C	48:CD:66:TYR:HD2	1.96	0.72
48:CD:146:LEU:HD11	48:CD:163:LEU:CD1	2.17	0.72
51:CA:116:LEU:CD1	51:CA:126:LEU:HB2	2.19	0.72
51:CA:179:ILE:O	51:CA:184:ARG:HD2	1.89	0.72
54:CP:116:HIS:CE1	54:CP:118:GLN:HB3	2.21	0.72
61:Ch:27:GLU:O	61:Ch:31:LEU:HG	1.89	0.72
64:CF:135:ILE:HD13	64:CF:135:ILE:O	1.89	0.72
65:Cc:37:MET:CE	65:Cc:95:ALA:HB1	2.17	0.72
66:Cd:39:LYS:CE	66:Cd:78:ARG:HH21	2.00	0.72
68:Cf:30:ILE:C	68:Cf:32:GLY:H	1.93	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:15:GLY:O	74:CC:16:GLU:HG2	1.89	0.72
78:Co:15:CYS:SG	78:Co:77:CYS:HB3	2.29	0.72
81:CE:46:ARG:O	81:CE:47:ASN:CB	2.36	0.72
82:CG:49:ARG:HG2	82:CG:50:ASP:N	2.04	0.72
1:Az:43:ALA:O	1:Az:45:ILE:HG22	1.90	0.72
1:Az:665:ILE:HG13	1:Az:703:ASP:HB3	1.69	0.72
1:Az:667:LYS:NZ	1:Az:667:LYS:CB	2.30	0.72
2:Ag:2:THR:O	2:Ag:3:GLU:CG	2.37	0.72
2:Ag:46:THR:C	2:Ag:48:ASP:N	2.42	0.72
5:AO:32:HIS:HE1	5:AO:96:LYS:HD2	1.53	0.72
5:AO:47:LEU:CB	15:AB:67:PHE:CE1	2.72	0.72
11:AL:71:ARG:HD3	11:AL:73:LEU:HD21	0.79	0.72
12:AR:88:VAL:O	12:AR:88:VAL:HG13	1.89	0.72
13:AP:53:GLN:HE21	13:AP:80:LEU:HD22	1.51	0.72
13:AP:84:ILE:HG22	13:AP:86:LEU:HD22	1.71	0.72
15:AB:139:CYS:CB	15:AB:168:MET:SD	2.77	0.72
15:AB:160:GLN:CD	15:AB:205:TYR:CD1	2.67	0.72
18:AY:54:VAL:HG13	18:AY:76:TYR:O	1.87	0.72
18:AY:78:SER:HB3	18:AY:81:TYR:HD2	0.56	0.72
23:AD:166:TYR:HD1	23:AD:200:PRO:CB	2.02	0.72
23:AD:195:THR:CG2	23:AD:197:LYS:HG2	2.19	0.72
26:AJ:72:PHE:CE2	27:AE:248:ILE:CD1	2.45	0.72
27:AE:180:LEU:HD22	27:AE:181:CYS:N	2.04	0.72
31:AH:14:GLU:CD	31:AH:16:PRO:HB2	2.13	0.72
31:AH:164:ASN:HA	31:AH:167:GLU:HG3	1.71	0.72
34:AQ:19:ALA:HB2	34:AQ:75:GLY:N	2.03	0.72
34:AQ:42:ILE:CG2	34:AQ:51:LEU:HD21	2.19	0.72
34:AQ:130:LYS:HD2	34:AQ:135:PRO:O	1.88	0.72
36:B2:931:C:O5'	36:B2:931:C:C6	2.42	0.72
36:B2:1521:C:OP2	36:B2:1521:C:H6	1.72	0.72
38:Cz:41:TYR:HE1	38:Cz:43:PRO:HA	1.54	0.72
39:Cq:106:LYS:HG3	39:Cq:108:PRO:CD	2.15	0.72
39:Cq:110:ALA:CB	39:Cq:182:PRO:CD	2.66	0.72
42:CL:126:LEU:O	42:CL:138:ASP:HB2	1.89	0.72
42:CL:129:ARG:O	42:CL:130:LYS:CB	2.37	0.72
43:CV:99:GLU:OE1	58:CW:24:THR:CG2	2.37	0.72
44:CM:33:GLN:O	44:CM:52:PHE:CD2	2.42	0.72
47:CI:205:PRO:C	47:CI:207:ASP:N	2.46	0.72
51:CA:82:ILE:CD1	51:CA:99:GLY:HA2	2.17	0.72
60:Cr:71:ARG:HD3	60:Cr:79:ARG:HD3	1.71	0.72
68:Cf:33:VAL:HG13	68:Cf:34:TYR:N	1.86	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:51:TYR:CE2	68:Cf:53:ALA:CB	2.73	0.72
74:CC:295:SER:HB2	74:CC:296:PRO:CD	2.20	0.72
82:CG:133:PRO:O	82:CG:133:PRO:CG	2.36	0.72
1:Az:58:ASP:CB	1:Az:63:GLU:CG	2.27	0.72
1:Az:149:GLU:O	1:Az:368:ARG:HD2	1.89	0.72
1:Az:207:PRO:HG2	1:Az:261:TRP:NE1	2.04	0.72
1:Az:267:ASP:N	1:Az:267:ASP:HA	1.98	0.72
1:Az:715:HIS:O	1:Az:716:ARG:HB2	1.90	0.72
1:Az:746:LEU:HD21	1:Az:785:LYS:HZ2	1.53	0.72
1:Az:752:PRO:CD	1:Az:755:VAL:HG21	2.17	0.72
2:Ag:5:MET:HE2	2:Ag:312:VAL:HG13	1.67	0.72
2:Ag:76:GLN:HA	2:Ag:76:GLN:NE2	2.03	0.72
2:Ag:116:ASP:O	2:Ag:117:ASN:HB2	1.89	0.72
2:Ag:219:TRP:CH2	2:Ag:226:HIS:HD2	2.07	0.72
2:Ag:248:LEU:C	2:Ag:259:TRP:CZ3	2.64	0.72
3:AU:82:MET:HE2	9:Ad:51:GLY:CA	2.19	0.72
5:AO:64:ALA:HB1	5:AO:66:ARG:HE	1.53	0.72
18:AY:29:HIS:HD1	18:AY:67:GLY:HA2	1.52	0.72
18:AY:37:LYS:C	18:AY:40:ILE:HG22	2.15	0.72
19:AZ:48:VAL:CG2	19:AZ:80:ARG:CD	2.54	0.72
22:Ac:50:VAL:HG22	30:AF:142:SER:CB	2.19	0.72
26:AJ:114:VAL:CG1	26:AJ:120:ALA:HB2	2.13	0.72
27:AE:100:ARG:HD3	27:AE:102:ILE:HD12	1.71	0.72
28:AC:153:GLY:C	28:AC:156:ILE:HG22	2.14	0.72
29:AG:32:MET:O	29:AG:33:ALA:HB3	1.87	0.72
35:Ah:302:ALA:O	35:Ah:303:LYS:CG	2.37	0.72
36:B2:1507:G:H1'	36:B2:1507:G:O5'	1.88	0.72
38:Cz:65:VAL:C	38:Cz:82:ILE:HD11	2.14	0.72
40:CK:41:LYS:HE2	40:CK:45:ASP:OD2	1.88	0.72
42:CL:89:LYS:CD	61:Ch:114:TYR:CD2	2.71	0.72
42:CL:126:LEU:C	42:CL:127:PHE:HD1	1.98	0.72
43:CV:9:SER:HG	43:CV:128:LEU:HG	1.52	0.72
43:CV:82:ILE:HG21	43:CV:121:VAL:CG2	2.18	0.72
46:CN:115:VAL:CA	46:CN:134:LEU:HD22	2.18	0.72
47:CI:39:LYS:HA	47:CI:86:HIS:CD2	2.23	0.72
47:CI:102:MET:O	47:CI:102:MET:SD	2.47	0.72
49:CQ:103:LEU:HD23	49:CQ:123:PHE:HD2	1.52	0.72
54:CP:93:HIS:O	54:CP:94:MET:C	2.31	0.72
57:CY:51:LYS:HG2	57:CY:70:VAL:O	1.89	0.72
57:CY:62:TYR:CE1	57:CY:85:VAL:CG1	2.72	0.72
72:Ck:60:LEU:O	72:Ck:62:PRO:CD	2.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:28:PHE:CE1	74:CC:129:ALA:O	2.41	0.72
74:CC:128:LEU:HD21	74:CC:240:LEU:HD11	1.70	0.72
77:Cp:47:MET:HA	77:Cp:56:HIS:O	1.89	0.72
79:CJ:18:ARG:HH21	79:CJ:139:PHE:HE1	1.29	0.72
81:CE:51:VAL:HB	81:CE:52:ARG:CA	2.17	0.72
81:CE:144:ILE:CD1	81:CE:196:ALA:CB	2.67	0.72
81:CE:242:ILE:HD11	81:CE:246:ARG:NH1	2.03	0.72
83:Ct:19:ASP:CB	84:Cv:32:ILE:CD1	2.67	0.72
1:Az:206:ASP:HA	1:Az:212:VAL:CG2	2.19	0.72
2:Ag:162:ASN:HD21	2:Ag:163:PRO:HD2	1.52	0.72
4:AK:96:ARG:HG3	4:AK:97:SER:N	2.00	0.72
7:AM:11:VAL:O	7:AM:12:MET:CB	2.36	0.72
7:AM:44:LYS:NZ	25:Af:127:GLY:HA3	2.03	0.72
9:Ad:22:ARG:CZ	23:AD:16:ILE:HG21	2.20	0.72
16:AA:58:LEU:HD21	16:AA:178:LEU:HD23	0.74	0.72
18:AY:102:THR:HB	18:AY:104:ARG:N	2.04	0.72
26:AJ:147:PHE:O	26:AJ:148:ILE:HB	1.87	0.72
28:AC:256:TRP:CE2	32:AW:68:ARG:HD3	2.25	0.72
30:AF:166:ILE:HD12	30:AF:166:ILE:H	1.54	0.72
32:AW:22:LYS:O	32:AW:65:LEU:HD11	1.89	0.72
32:AW:101:PHE:HB2	32:AW:129:PHE:CE1	2.25	0.72
33:AI:142:SER:HB3	33:AI:143:LYS:CG	2.20	0.72
39:Cq:35:VAL:HG22	39:Cq:36:GLY:H	1.52	0.72
39:Cq:143:ILE:HD11	39:Cq:160:LEU:CD1	2.19	0.72
39:Cq:182:PRO:CG	39:Cq:183:PHE:CD2	2.70	0.72
40:CK:22:VAL:CG2	40:CK:48:LYS:HG3	2.20	0.72
41:CO:177:LEU:HA	44:CM:130:LEU:CD2	2.18	0.72
42:CL:126:LEU:HD23	61:Ch:117:ARG:HH11	1.53	0.72
46:CN:192:TRP:O	46:CN:195:ARG:HG2	1.89	0.72
48:CD:130:TYR:CD2	48:CD:131:ASN:O	2.41	0.72
51:CA:188:LYS:HG2	51:CA:189:TYR:CD2	2.24	0.72
52:CS:22:CYS:N	52:CS:23:HIS:CD2	2.57	0.72
52:CS:153:PRO:O	52:CS:153:PRO:HD2	1.87	0.72
53:CT:145:GLY:O	53:CT:146:LYS:HG2	1.89	0.72
55:CU:84:LYS:HE3	55:CU:102:VAL:CG1	2.19	0.72
56:CX:63:LYS:HZ2	56:CX:63:LYS:HB3	1.55	0.72
61:Ch:23:ASP:OD1	61:Ch:23:ASP:C	2.32	0.72
63:CB:54:THR:C	63:CB:76:VAL:CG2	2.61	0.72
63:CB:58:ARG:CA	63:CB:366:LYS:HD3	2.19	0.72
63:CB:165:HIS:HB3	63:CB:180:LEU:HD11	1.64	0.72
64:CF:30:ILE:O	64:CF:34:ARG:CG	2.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:20:LEU:HD21	65:Cc:101:ASP:CB	2.18	0.72
65:Cc:37:MET:CE	65:Cc:43:ALA:HA	2.10	0.72
65:Cc:45:LEU:HD12	65:Cc:70:GLY:O	1.90	0.72
67:Ce:24:GLN:NE2	67:Ce:27:ARG:CD	2.39	0.72
72:Ck:2:PRO:HB2	85:A5:2692:U:C2'	2.19	0.72
72:Ck:14:THR:HA	72:Ck:17:ARG:HD3	1.70	0.72
79:CJ:90:ARG:HH12	79:CJ:107:PHE:CA	2.02	0.72
80:CH:25:VAL:CG1	80:CH:38:PHE:CE2	2.72	0.72
81:CE:155:GLY:O	81:CE:158:ARG:HB3	1.89	0.72
81:CE:195:ILE:HG21	81:CE:288:PHE:CZ	2.24	0.72
81:CE:232:ILE:O	81:CE:232:ILE:CG1	2.30	0.72
82:CG:73:ARG:NH1	82:CG:242:LEU:HA	2.03	0.72
84:Cv:23:ILE:CG2	84:Cv:39:LEU:CD2	2.67	0.72
1:Az:120:ARG:O	1:Az:368:ARG:NH2	2.20	0.72
1:Az:191:THR:CG2	1:Az:192:TYR:CE1	2.72	0.72
1:Az:590:LEU:HD23	1:Az:605:LYS:HE3	1.71	0.72
2:Ag:64:HIS:CE1	2:Ag:65:PHE:CD2	2.77	0.72
2:Ag:98:THR:O	2:Ag:99:ARG:CD	2.37	0.72
2:Ag:124:SER:HB3	2:Ag:126:ASP:OD1	1.89	0.72
4:AK:47:LYS:O	4:AK:50:GLN:HG2	1.88	0.72
6:AX:108:LYS:CB	6:AX:110:HIS:CE1	2.72	0.72
6:AX:126:ALA:C	6:AX:128:VAL:N	2.40	0.72
10:AN:5:HIS:CD2	10:AN:121:ARG:HE	2.08	0.72
10:AN:27:LYS:H	10:AN:27:LYS:CD	1.96	0.72
10:AN:53:ILE:HD13	21:Ab:52:THR:CG2	2.11	0.72
13:AP:93:MET:SD	13:AP:106:GLU:CB	2.77	0.72
14:AT:11:GLN:NE2	14:AT:62:ARG:NH1	2.36	0.72
15:AB:104:ASP:OD1	15:AB:105:LEU:N	2.21	0.72
16:AA:30:LEU:CD2	16:AA:35:GLU:CG	2.51	0.72
18:AY:56:PHE:CB	18:AY:58:PHE:HE2	2.03	0.72
18:AY:56:PHE:CD2	18:AY:86:GLU:OE2	2.43	0.72
21:Ab:36:LYS:HE3	21:Ab:43:ILE:HD11	1.70	0.72
24:Ae:28:LYS:HG3	24:Ae:33:LYS:N	2.04	0.72
24:Ae:41:ARG:N	24:Ae:45:VAL:HG21	2.02	0.72
26:AJ:100:LEU:CG	26:AJ:101:LYS:N	2.50	0.72
27:AE:125:LYS:HB3	27:AE:226:PHE:CE1	2.23	0.72
27:AE:175:PHE:CD2	27:AE:175:PHE:C	2.67	0.72
29:AG:14:LYS:HZ1	29:AG:123:GLY:HA2	1.55	0.72
35:Ah:151:PHE:H	35:Ah:153:VAL:HG11	1.53	0.72
39:Cq:257:TYR:CE1	84:Cv:42:VAL:CA	2.42	0.72
40:CK:1:MET:N	40:CK:2:PRO:CD	2.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:115:VAL:CG2	46:CN:134:LEU:CD2	2.63	0.72
47:CI:87:MET:HG2	47:CI:138:ILE:HG12	1.71	0.72
48:CD:273:LEU:CD1	48:CD:277:LYS:NZ	2.51	0.72
49:CQ:28:LEU:HD12	49:CQ:51:LEU:HD13	1.70	0.72
51:CA:209:HIS:HE1	51:CA:211:PHE:CD1	2.04	0.72
53:CT:79:GLN:O	53:CT:79:GLN:CG	2.33	0.72
54:CP:16:LYS:HG2	54:CP:149:ILE:CG1	2.18	0.72
59:CZ:118:PHE:CZ	59:CZ:130:PHE:CE2	2.78	0.72
60:Cr:46:ARG:NE	60:Cr:69:GLY:HA2	2.05	0.72
62:Cb:75:LEU:C	62:Cb:78:PRO:HD2	2.14	0.72
63:CB:51:ALA:CB	63:CB:78:ILE:CD1	2.64	0.72
63:CB:84:MET:SD	63:CB:164:ALA:HB3	2.30	0.72
63:CB:133:TYR:CD1	63:CB:136:LYS:CD	2.73	0.72
67:Ce:9:LYS:HD3	67:Ce:69:MET:CE	2.19	0.72
68:Cf:3:GLY:CA	81:CE:276:ALA:CB	2.63	0.72
74:CC:54:VAL:CG2	74:CC:101:MET:HE2	2.19	0.72
81:CE:111:LYS:CB	81:CE:113:PRO:CD	2.67	0.72
81:CE:182:ASN:HD21	81:CE:271:LEU:HB3	1.54	0.72
82:CG:128:VAL:N	82:CG:129:PRO:HD3	2.03	0.72
84:Cv:23:ILE:HG22	84:Cv:39:LEU:CD2	2.17	0.72
1:Az:113:SER:HB2	1:Az:499:PHE:CD2	2.24	0.72
1:Az:762:VAL:CG1	1:Az:796:PHE:HE1	1.99	0.72
2:Ag:65:PHE:HZ	12:AR:29:HIS:HE2	1.34	0.72
5:AO:136:PRO:C	5:AO:138:ASP:N	2.44	0.72
8:AS:106:LYS:HD2	8:AS:109:GLU:OE1	1.90	0.72
12:AR:13:ALA:CB	12:AR:54:VAL:CG2	2.68	0.72
17:AV:55:ILE:HD13	17:AV:65:SER:CA	2.13	0.72
17:AV:79:VAL:HG13	17:AV:80:SER:N	1.99	0.72
22:Ac:11:LEU:CB	22:Ac:35:MET:HE2	2.20	0.72
26:AJ:114:VAL:HG13	26:AJ:119:LEU:O	1.90	0.72
26:AJ:131:ARG:HH11	26:AJ:143:ASN:HD21	1.36	0.72
26:AJ:138:ARG:HH12	26:AJ:156:HIS:CD2	2.05	0.72
28:AC:251:LEU:HD23	28:AC:252:THR:O	1.90	0.72
30:AF:91:ARG:NE	30:AF:91:ARG:CA	2.33	0.72
32:AW:14:ILE:HG13	32:AW:15:ASN:H	1.54	0.72
33:AI:48:VAL:CG2	33:AI:52:ASN:HB3	2.19	0.72
34:AQ:85:ARG:HH12	34:AQ:117:ARG:HG2	1.18	0.72
38:Cz:49:PHE:CE1	38:Cz:193:LEU:HB2	2.24	0.72
38:Cz:66:CYS:HB3	38:Cz:110:PHE:CD1	2.25	0.72
39:Cq:12:ASN:HB3	39:Cq:16:LYS:HE3	1.71	0.72
39:Cq:122:THR:HG22	39:Cq:159:GLN:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:190:ASP:HA	41:CO:191:LYS:C	2.14	0.72
42:CL:148:THR:C	42:CL:149:GLN:CG	2.62	0.72
46:CN:44:ARG:CD	46:CN:119:TYR:CD1	2.69	0.72
50:CR:65:LYS:O	50:CR:68:LEU:CG	2.38	0.72
50:CR:68:LEU:CD1	50:CR:69:ALA:N	2.51	0.72
53:CT:68:THR:CB	53:CT:71:ALA:HB3	2.18	0.72
56:CX:38:LYS:CG	56:CX:39:LYS:N	2.52	0.72
58:CW:76:VAL:HG12	58:CW:77:LYS:H	1.54	0.72
58:CW:87:LEU:O	58:CW:91:MET:CE	2.37	0.72
60:Cr:89:THR:O	60:Cr:90:LEU:C	2.32	0.72
61:Ch:1:MET:O	61:Ch:2:ALA:O	2.08	0.72
63:CB:297:LYS:O	63:CB:297:LYS:HD2	1.90	0.72
66:Cd:23:ARG:HD2	66:Cd:88:LEU:CD1	2.11	0.72
66:Cd:25:TYR:CD2	66:Cd:88:LEU:CD2	2.72	0.72
67:Ce:69:MET:HG3	67:Ce:75:ARG:HE	1.55	0.72
80:CH:50:LYS:NZ	80:CH:50:LYS:N	2.37	0.72
80:CH:64:ARG:NH2	85:A5:4693:C:OP1	2.22	0.72
1:Az:518:PRO:CA	6:AX:50:ILE:HD11	2.19	0.72
1:Az:585:GLU:HG3	1:Az:737:GLN:NE2	2.05	0.72
2:Ag:275:ILE:CD1	2:Ag:276:SER:N	2.51	0.72
4:AK:83:LEU:CB	4:AK:85:LEU:CG	2.68	0.72
13:AP:12:PHE:CZ	79:CJ:88:LYS:HD2	2.25	0.72
13:AP:49:LEU:HA	13:AP:51:ARG:CD	2.19	0.72
23:AD:198:ILE:HG13	23:AD:198:ILE:O	1.90	0.72
26:AJ:101:LYS:HG2	26:AJ:103:GLU:OE1	1.89	0.72
26:AJ:127:ARG:NH1	26:AJ:145:PRO:HB3	2.03	0.72
27:AE:11:ARG:O	27:AE:12:VAL:CB	2.38	0.72
27:AE:36:HIS:O	27:AE:41:CYS:SG	2.47	0.72
27:AE:123:LEU:HD12	27:AE:161:GLN:HA	1.72	0.72
31:AH:143:ARG:HA	32:AW:52:ILE:O	1.89	0.72
34:AQ:85:ARG:NH1	34:AQ:117:ARG:CB	2.51	0.72
39:Cq:269:LEU:CA	39:Cq:272:PRO:CG	2.68	0.72
43:CV:82:ILE:CG2	43:CV:121:VAL:HG22	2.19	0.72
46:CN:11:TRP:CE2	46:CN:44:ARG:CZ	2.72	0.72
51:CA:39:GLY:HA3	82:CG:41:ILE:HD12	1.71	0.72
55:CU:84:LYS:CE	55:CU:102:VAL:CB	2.66	0.72
58:CW:47:ARG:HH11	58:CW:58:LYS:HD3	1.55	0.72
61:Ch:40:ALA:O	61:Ch:41:ALA:C	2.31	0.72
61:Ch:66:LYS:HE2	61:Ch:83:LEU:HD21	1.70	0.72
61:Ch:121:VAL:HG13	61:Ch:122:LYS:N	2.04	0.72
62:Cb:28:ARG:O	62:Cb:29:TYR:HB2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:189:THR:CG2	63:CB:192:GLU:CD	2.61	0.72
65:Cc:37:MET:HE2	65:Cc:95:ALA:CB	2.18	0.72
67:Ce:3:ALA:HB3	67:Ce:121:ARG:NH1	2.04	0.72
67:Ce:22:ARG:HH12	67:Ce:31:ILE:HG12	1.53	0.72
74:CC:230:LEU:CD1	74:CC:239:LYS:CD	2.66	0.72
79:CJ:96:LYS:O	79:CJ:97:ASN:O	2.07	0.72
81:CE:54:ILE:H	81:CE:63:TYR:HD2	1.36	0.72
82:CG:241:VAL:O	82:CG:242:LEU:HG	1.90	0.72
83:Cs:41:PRO:CA	83:Cs:44:PRO:CG	2.68	0.72
1:Az:27:HIS:HB3	1:Az:30:HIS:CE1	2.25	0.72
1:Az:86:LEU:O	1:Az:89:ILE:HG22	1.88	0.72
1:Az:155:LEU:HD22	1:Az:157:MET:SD	2.30	0.72
5:AO:17:LEU:HD21	15:AB:30:TRP:NE1	2.05	0.72
5:AO:72:TYR:HE1	5:AO:76:LEU:HD11	1.54	0.72
5:AO:88:LEU:HD13	15:AB:25:PHE:CE1	2.24	0.72
12:AR:85:VAL:HG11	16:AA:198:MET:HB2	1.69	0.72
16:AA:123:VAL:HG22	16:AA:145:ILE:HB	1.71	0.72
17:AV:40:ASP:O	17:AV:40:ASP:CG	2.33	0.72
26:AJ:84:ILE:HG13	26:AJ:86:VAL:HG23	1.72	0.72
27:AE:94:LYS:C	27:AE:95:THR:HG23	2.15	0.72
27:AE:229:GLY:CA	27:AE:235:TRP:HD1	2.03	0.72
28:AC:69:LEU:HD21	28:AC:269:PHE:HB3	1.71	0.72
28:AC:138:GLY:C	28:AC:241:PHE:CZ	2.67	0.72
28:AC:171:GLY:HA2	32:AW:98:GLN:NE2	2.03	0.72
29:AG:93:LYS:HD3	29:AG:95:LYS:HD2	1.70	0.72
33:AI:4:SER:O	33:AI:6:ASP:N	2.22	0.72
38:Cz:26:ARG:HD3	38:Cz:210:MET:HB2	1.72	0.72
41:CO:16:LEU:HD13	41:CO:43:ILE:HD11	1.66	0.72
44:CM:104:MET:HG2	44:CM:108:ASP:HB3	1.70	0.72
46:CN:150:TRP:CE2	46:CN:151:ILE:HG13	2.24	0.72
47:CI:82:ARG:HH11	47:CI:82:ARG:CG	2.02	0.72
50:CR:160:GLU:O	50:CR:164:SER:CB	2.38	0.72
54:CP:32:THR:OG1	54:CP:91:LEU:CD2	2.37	0.72
55:CU:60:VAL:H	55:CU:75:GLU:HG3	1.53	0.72
56:CX:76:ILE:HD12	56:CX:76:ILE:C	2.14	0.72
60:Cr:6:GLN:CD	74:CC:133:LEU:HD11	2.14	0.72
60:Cr:72:LYS:C	60:Cr:72:LYS:CD	2.58	0.72
63:CB:235:TRP:O	63:CB:236:HIS:CB	2.21	0.72
63:CB:298:LEU:CA	63:CB:300:LYS:CG	2.68	0.72
63:CB:354:GLN:OE1	63:CB:354:GLN:CA	2.30	0.72
65:Cc:22:MET:HE1	65:Cc:27:TYR:HB3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Ci:13:LYS:O	70:Ci:13:LYS:CG	2.38	0.72
74:CC:5:ARG:CA	74:CC:24:LEU:HD11	2.08	0.72
74:CC:92:PHE:O	74:CC:93:GLY:C	2.30	0.72
74:CC:213:GLU:O	74:CC:213:GLU:HG2	1.90	0.72
78:Co:93:LEU:HD23	78:Co:93:LEU:H	1.55	0.72
83:Cs:31:LEU:CG	84:Cu:30:VAL:HG22	2.19	0.72
83:Ct:15:ILE:HG13	84:Cv:5:ALA:HB1	1.72	0.72
1:Az:402:VAL:HG11	1:Az:453:MET:HE1	1.71	0.72
6:AX:54:LYS:HD2	6:AX:91:LEU:HD12	1.72	0.72
7:AM:85:LEU:CA	7:AM:88:TRP:CE3	2.67	0.72
8:AS:119:ALA:HA	13:AP:119:PHE:HA	1.71	0.72
12:AR:115:SER:O	12:AR:116:ASN:OD1	2.08	0.72
13:AP:44:ARG:HE	13:AP:84:ILE:HD12	0.56	0.72
14:AT:111:LYS:HB2	14:AT:126:GLN:NE2	2.03	0.72
16:AA:127:PRO:CG	16:AA:152:SER:HB3	2.19	0.72
16:AA:186:ARG:O	16:AA:186:ARG:CZ	2.38	0.72
19:AZ:96:LEU:O	19:AZ:112:ASN:CB	2.37	0.72
19:AZ:99:LEU:HD21	19:AZ:109:TYR:HE1	1.47	0.72
23:AD:21:LEU:HD13	23:AD:48:ILE:HD11	1.71	0.72
23:AD:59:LEU:HD12	23:AD:60:GLY:C	2.14	0.72
23:AD:162:ASP:CG	23:AD:166:TYR:CE2	2.68	0.72
26:AJ:37:LEU:HG	26:AJ:42:GLU:CB	2.20	0.72
26:AJ:180:LYS:C	26:AJ:180:LYS:HD2	2.15	0.72
31:AH:66:VAL:HG22	31:AH:96:ALA:HB1	1.71	0.72
31:AH:166:VAL:HG22	31:AH:173:PHE:HE2	1.55	0.72
33:AI:62:VAL:HG21	33:AI:75:LYS:HE2	1.70	0.72
33:AI:70:GLU:HB3	33:AI:72:CYS:SG	2.30	0.72
33:AI:148:LYS:O	33:AI:152:ARG:HG3	1.90	0.72
38:Cz:36:ILE:HD11	38:Cz:201:VAL:HG22	1.71	0.72
39:Cq:95:LEU:HD21	83:Cs:49:LYS:NZ	2.04	0.72
40:CK:105:THR:HG22	40:CK:144:ASP:H	1.55	0.72
42:CL:163:LYS:CE	45:Ca:100:ILE:HG21	2.20	0.72
43:CV:16:ILE:HD12	43:CV:57:VAL:HB	1.70	0.72
44:CM:32:ASP:HB2	44:CM:35:ARG:HG3	1.70	0.72
47:CI:101:LYS:CB	47:CI:101:LYS:HZ3	2.03	0.72
48:CD:190:PHE:HE2	48:CD:192:ALA:CB	2.03	0.72
49:CQ:88:ASP:HB2	49:CQ:108:ARG:CB	2.20	0.72
49:CQ:158:THR:N	49:CQ:159:PRO:CD	2.53	0.72
52:CS:17:LEU:HG	52:CS:58:SER:CA	2.19	0.72
52:CS:93:MET:HE1	52:CS:117:HIS:CE1	2.23	0.72
53:CT:30:TYR:OH	53:CT:94:GLU:HG2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:77:ILE:HD11	56:CX:113:VAL:HG23	1.72	0.72
57:CY:117:LYS:CE	57:CY:121:ARG:HH22	1.77	0.72
58:CW:87:LEU:HD22	58:CW:90:ILE:HD12	1.68	0.72
61:Ch:3:LYS:C	61:Ch:4:ILE:CD1	2.60	0.72
63:CB:165:HIS:HB3	63:CB:180:LEU:HD12	1.50	0.72
65:Cc:102:SER:HB2	65:Cc:104:ILE:HG13	1.70	0.72
66:Cd:122:VAL:HG13	66:Cd:123:ASP:H	1.55	0.72
67:Ce:5:ARG:CG	67:Ce:93:LYS:HB3	2.05	0.72
71:Cj:84:PRO:C	71:Cj:86:PRO:CD	2.62	0.72
74:CC:30:ALA:HB1	74:CC:31:PRO:HD3	1.71	0.72
74:CC:230:LEU:HD12	74:CC:239:LYS:HD2	1.70	0.72
80:CH:187:VAL:O	80:CH:187:VAL:HG12	1.89	0.72
81:CE:115:TYR:C	81:CE:117:PRO:HD2	2.14	0.72
81:CE:181:LEU:CD2	81:CE:268:GLN:HG3	2.18	0.72
81:CE:282:TYR:HB3	81:CE:283:PRO:CD	2.20	0.72
82:CG:150:LYS:CA	82:CG:177:MET:HE2	2.20	0.72
86:A7:49:A:HO2'	86:A7:50:A:H8	1.38	0.72
1:Az:153:PRO:O	1:Az:205:ILE:HD12	1.90	0.72
1:Az:206:ASP:O	1:Az:212:VAL:CB	2.37	0.72
1:Az:208:VAL:CG1	1:Az:258:LYS:HA	2.20	0.72
1:Az:225:LEU:HD23	1:Az:257:MET:HB2	1.70	0.72
1:Az:533:MET:HE3	1:Az:549:ALA:HB2	1.71	0.72
1:Az:574:ASP:HB3	1:Az:576:VAL:N	2.05	0.72
1:Az:819:ILE:HD12	1:Az:819:ILE:O	1.90	0.72
3:AU:51:LYS:CB	3:AU:90:ASP:HB2	2.18	0.72
5:AO:48:SER:N	15:AB:67:PHE:HE1	1.84	0.72
10:AN:54:LEU:CB	10:AN:60:VAL:HG21	2.18	0.72
11:AL:19:ASN:HD22	33:AI:69:SER:HB2	1.53	0.72
15:AB:105:LEU:C	15:AB:106:THR:HG23	2.14	0.72
17:AV:18:SER:OG	17:AV:72:LEU:HD13	1.90	0.72
24:Ae:38:TYR:HB2	26:AJ:29:LEU:HD22	1.72	0.72
24:Ae:40:ARG:HA	24:Ae:44:ASN:HB2	1.72	0.72
27:AE:165:GLU:OE2	27:AE:165:GLU:CA	2.29	0.72
31:AH:32:MET:O	31:AH:33:ASN:CB	2.38	0.72
34:AQ:8:GLN:CB	34:AQ:99:TYR:CZ	2.72	0.72
39:Cq:25:PRO:HG2	39:Cq:92:LYS:C	2.14	0.72
39:Cq:123:VAL:HG23	39:Cq:160:LEU:CD1	2.20	0.72
41:CO:131:PRO:CD	52:CS:156:HIS:CE1	2.72	0.72
42:CL:51:ALA:O	42:CL:52:SER:C	2.29	0.72
43:CV:75:LYS:O	43:CV:75:LYS:HG3	1.90	0.72
45:Ca:73:VAL:HG21	45:Ca:108:TYR:CD2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:120:TRP:CD1	46:CN:128:LYS:HZ1	2.08	0.72
46:CN:150:TRP:CD2	46:CN:151:ILE:HG13	2.25	0.72
50:CR:132:PHE:CD1	50:CR:137:ILE:CG1	2.72	0.72
52:CS:23:HIS:H	52:CS:23:HIS:HD2	1.36	0.72
52:CS:45:TRP:HE1	52:CS:61:ILE:HD11	1.55	0.72
52:CS:80:ILE:CG2	52:CS:95:ARG:CG	2.67	0.72
55:CU:24:ASP:HB3	55:CU:111:GLU:HG2	1.72	0.72
59:CZ:15:ALA:C	59:CZ:19:SER:HB3	2.15	0.72
59:CZ:95:VAL:O	59:CZ:100:VAL:CG2	2.36	0.72
60:Cr:60:VAL:HG13	60:Cr:85:ASN:OD1	1.89	0.72
61:Ch:118:LYS:HD2	61:Ch:118:LYS:H	1.52	0.72
63:CB:83:PRO:O	63:CB:167:GLN:CG	2.38	0.72
63:CB:168:MET:HE2	63:CB:171:LEU:HB2	1.72	0.72
66:Cd:39:LYS:HZ1	66:Cd:78:ARG:CZ	2.01	0.72
69:Cg:53:LEU:HD21	69:Cg:80:GLY:O	1.89	0.72
69:Cg:59:VAL:HG11	69:Cg:63:VAL:HB	1.72	0.72
71:Cj:39:TYR:CD1	71:Cj:40:PRO:HA	2.25	0.72
72:Ck:31:ASN:O	72:Ck:47:ILE:O	2.07	0.72
73:Cl:26:TRP:CH2	73:Cl:27:ILE:CD1	2.72	0.72
81:CE:223:ARG:O	81:CE:224:LYS:HG3	1.88	0.72
82:CG:22:GLN:O	82:CG:25:LYS:HB3	1.90	0.72
82:CG:117:ARG:HD2	82:CG:130:THR:HG21	1.72	0.72
1:Az:524:LEU:CD2	1:Az:536:CYS:CB	2.68	0.71
2:Ag:282:GLU:O	2:Ag:283:PRO:C	2.29	0.71
4:AK:84:HIS:CG	4:AK:84:HIS:O	2.39	0.71
11:AL:6:THR:O	11:AL:7:GLU:O	2.06	0.71
12:AR:123:THR:HG21	16:AA:44:ASP:HA	1.57	0.71
14:AT:124:THR:CG2	14:AT:127:GLY:H	2.01	0.71
18:AY:118:ARG:HE	29:AG:85:ARG:CZ	2.03	0.71
21:Ab:5:LYS:CB	21:Ab:5:LYS:NZ	2.53	0.71
21:Ab:36:LYS:HG3	21:Ab:78:SER:HG	1.55	0.71
23:AD:141:LYS:HD2	23:AD:179:GLN:CD	2.15	0.71
23:AD:192:TRP:CE3	23:AD:196:GLY:CA	2.65	0.71
26:AJ:110:LEU:HD13	26:AJ:130:ILE:CG1	2.04	0.71
28:AC:164:PRO:CG	28:AC:164:PRO:O	2.30	0.71
30:AF:66:CYS:SG	30:AF:67:PRO:HD2	2.30	0.71
30:AF:134:VAL:HG11	30:AF:136:ARG:HH21	1.52	0.71
32:AW:128:PHE:CD1	32:AW:129:PHE:N	2.58	0.71
33:AI:106:SER:OG	33:AI:171:LEU:HG	1.90	0.71
36:B2:1746:U:O2'	36:B2:1747:C:H5'	1.90	0.71
39:Cq:232:PRO:CG	84:Cu:42:VAL:HG23	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:16:LEU:HA	41:CO:41:ILE:HD11	1.71	0.71
42:CL:100:PRO:HD2	42:CL:101:ARG:N	2.03	0.71
44:CM:5:ARG:NH2	44:CM:59:ASP:OD1	2.23	0.71
45:Ca:93:ASN:ND2	45:Ca:94:LYS:CA	2.52	0.71
47:CI:106:ALA:O	47:CI:107:GLY:C	2.29	0.71
48:CD:42:ASN:OD1	53:CT:67:VAL:CB	2.37	0.71
48:CD:42:ASN:CG	53:CT:67:VAL:HG12	2.10	0.71
48:CD:61:ILE:HG12	48:CD:79:TYR:CE1	2.24	0.71
51:CA:51:ASP:OD2	51:CA:54:ARG:HD2	1.90	0.71
53:CT:11:THR:HG21	53:CT:15:PHE:HE2	1.53	0.71
55:CU:68:SER:OG	55:CU:69:LYS:NZ	2.23	0.71
59:CZ:4:PHE:O	59:CZ:9:LYS:HG3	1.90	0.71
59:CZ:36:ARG:HE	59:CZ:74:VAL:CG1	2.01	0.71
63:CB:58:ARG:HD3	63:CB:363:ILE:CG2	2.20	0.71
66:Cd:57:MET:HB3	66:Cd:90:ARG:NH1	2.05	0.71
66:Cd:93:ASN:HD21	66:Cd:98:SER:CB	1.99	0.71
66:Cd:93:ASN:HD21	66:Cd:98:SER:HB3	1.45	0.71
69:Cg:45:ALA:CB	69:Cg:48:VAL:H	2.03	0.71
70:CI:33:LEU:HD12	70:CI:33:LEU:H	1.54	0.71
74:CC:40:VAL:HG12	74:CC:44:LEU:HD11	1.72	0.71
75:Cm:95:ILE:HG13	75:Cm:124:LYS:HG3	1.70	0.71
79:CJ:128:LEU:HD12	79:CJ:130:PHE:CD2	2.19	0.71
79:CJ:174:ILE:HG22	79:CJ:175:LEU:H	1.55	0.71
82:CG:73:ARG:HB3	82:CG:74:LEU:HD12	1.70	0.71
1:Az:13:MET:HE2	1:Az:465:PRO:CD	2.18	0.71
1:Az:240:GLY:N	1:Az:241:GLU:HB2	2.05	0.71
1:Az:830:ARG:HB2	1:Az:831:PRO:HD3	1.72	0.71
3:AU:97:ILE:CG2	3:AU:101:ILE:HD11	2.17	0.71
8:AS:120:HIS:CB	13:AP:121:ILE:HG22	2.20	0.71
10:AN:6:ALA:HB1	10:AN:7:PRO:HD3	1.71	0.71
10:AN:26:LEU:HD21	10:AN:66:VAL:CG2	2.20	0.71
13:AP:48:GLY:O	13:AP:50:ARG:HD2	1.91	0.71
13:AP:125:PRO:O	13:AP:126:VAL:CB	2.38	0.71
15:AB:146:ARG:NH1	15:AB:146:ARG:N	2.38	0.71
19:AZ:102:LYS:HA	19:AZ:107:VAL:HA	1.72	0.71
23:AD:97:CYS:SG	23:AD:99:ILE:HG13	2.30	0.71
23:AD:217:ILE:O	23:AD:218:LEU:CD2	2.38	0.71
26:AJ:37:LEU:HD23	26:AJ:43:VAL:HG23	1.70	0.71
27:AE:73:ASP:OD2	27:AE:122:LYS:NZ	2.20	0.71
28:AC:125:LYS:CE	28:AC:141:VAL:HG11	2.18	0.71
28:AC:210:PRO:HG3	28:AC:236:PHE:CZ	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:17:ALA:HB2	32:AW:25:VAL:CG1	2.20	0.71
33:AI:54:LYS:HG2	33:AI:181:GLN:O	1.89	0.71
33:AI:144:LYS:C	33:AI:145:ILE:HG23	2.15	0.71
38:Cz:41:TYR:HD1	38:Cz:163:LEU:HG	1.55	0.71
39:Cq:198:ILE:H	83:Cs:42:PHE:HE1	0.90	0.71
43:CV:60:MET:HE3	43:CV:129:TRP:CZ2	2.26	0.71
44:CM:3:PHE:O	44:CM:5:ARG:N	2.23	0.71
44:CM:5:ARG:NH1	44:CM:57:LEU:O	2.22	0.71
49:CQ:53:MET:HE1	49:CQ:143:ARG:HH22	1.51	0.71
49:CQ:154:LYS:CG	49:CQ:155:ALA:O	2.38	0.71
49:CQ:158:THR:N	49:CQ:159:PRO:HD3	2.06	0.71
50:CR:134:ASN:O	50:CR:137:ILE:CG2	2.34	0.71
51:CA:254:GLU:HA	51:CA:255:LYS:HB2	1.72	0.71
52:CS:98:ARG:NH1	52:CS:145:PHE:C	2.48	0.71
55:CU:66:SER:C	55:CU:67:LYS:CG	2.62	0.71
56:CX:38:LYS:HG2	56:CX:39:LYS:CA	2.19	0.71
59:CZ:91:LEU:C	59:CZ:117:LYS:NZ	2.47	0.71
60:Cr:20:ARG:C	60:Cr:21:ASN:CG	2.58	0.71
60:Cr:50:GLY:CA	60:Cr:64:ILE:CG2	2.69	0.71
60:Cr:136:SER:O	60:Cr:137:SER:HB3	1.90	0.71
61:Ch:48:ARG:CG	61:Ch:48:ARG:HH11	2.00	0.71
63:CB:32:PHE:N	63:CB:32:PHE:HD2	1.85	0.71
66:Cd:59:THR:HG21	66:Cd:90:ARG:HG3	1.71	0.71
69:Cg:37:LYS:HG3	69:Cg:60:ARG:NH1	1.98	0.71
82:CG:27:VAL:O	82:CG:31:LEU:HD11	1.88	0.71
83:Cs:17:HIS:NE2	83:Cs:56:ILE:CD1	2.52	0.71
83:Cs:17:HIS:NE2	83:Cs:56:ILE:HD13	2.06	0.71
85:A5:1699:A:C8	85:A5:2096:G:OP2	2.43	0.71
1:Az:13:MET:SD	1:Az:465:PRO:CD	2.71	0.71
1:Az:402:VAL:HG12	1:Az:411:TYR:O	1.89	0.71
1:Az:420:LEU:HB3	1:Az:465:PRO:HA	1.72	0.71
4:AK:88:GLU:OE2	35:Ah:282:GLU:CB	2.38	0.71
5:AO:64:ALA:HB1	5:AO:66:ARG:NE	2.04	0.71
7:AM:12:MET:C	7:AM:13:ASP:OD1	2.33	0.71
8:AS:52:LEU:HD12	8:AS:53:THR:N	2.05	0.71
9:Ad:30:LEU:HD23	9:Ad:38:MET:O	1.90	0.71
14:AT:84:ARG:NH2	14:AT:84:ARG:HG3	1.98	0.71
27:AE:124:CYS:HB2	27:AE:162:ILE:HD11	1.71	0.71
27:AE:191:ARG:HD3	27:AE:245:ARG:HB2	1.71	0.71
28:AC:170:TRP:CH2	32:AW:97:ARG:CZ	2.72	0.71
30:AF:41:VAL:CG2	30:AF:42:LYS:N	2.29	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:31:GLU:OE2	31:AH:41:ARG:NE	2.22	0.71
38:Cz:18:LEU:HD13	38:Cz:176:ASP:O	1.90	0.71
41:CO:203:VAL:HG13	44:CM:101:LYS:HE3	1.72	0.71
45:Ca:47:LYS:C	49:CQ:156:PRO:CG	2.58	0.71
47:CI:103:LEU:O	47:CI:104:SER:HB3	1.89	0.71
49:CQ:61:LEU:HD21	49:CQ:141:GLY:N	2.03	0.71
49:CQ:110:ARG:NH2	74:CC:281:MET:SD	2.63	0.71
49:CQ:148:VAL:CG1	49:CQ:152:PHE:CZ	2.72	0.71
50:CR:1:MET:O	50:CR:4:LEU:HD21	1.90	0.71
51:CA:116:LEU:HG	51:CA:126:LEU:HB2	1.72	0.71
55:CU:59:GLY:O	55:CU:61:VAL:N	2.24	0.71
55:CU:106:SER:HB2	55:CU:107:LYS:HE2	1.71	0.71
60:Cr:28:GLU:O	60:Cr:29:PRO:C	2.33	0.71
67:Ce:35:TRP:HZ2	67:Ce:56:PRO:HD2	1.50	0.71
67:Ce:38:PRO:CB	67:Ce:43:ASN:ND2	2.52	0.71
78:Co:62:THR:O	78:Co:63:THR:CG2	2.38	0.71
81:CE:264:ILE:HG22	81:CE:265:PRO:N	2.05	0.71
84:Cv:7:TYR:CE1	84:Cv:42:VAL:HG12	2.22	0.71
1:Az:228:PHE:HE1	1:Az:232:TYR:OH	1.73	0.71
1:Az:753:GLU:CG	1:Az:782:PHE:CE1	2.72	0.71
1:Az:807:GLN:O	1:Az:808:ALA:O	2.09	0.71
7:AM:131:LYS:O	7:AM:132:LYS:HG3	1.90	0.71
12:AR:77:GLU:O	12:AR:81:ARG:HG3	1.90	0.71
14:AT:42:HIS:CE1	14:AT:93:SER:CA	2.73	0.71
15:AB:205:TYR:CD2	15:AB:206:PRO:CD	2.58	0.71
19:AZ:94:LYS:C	19:AZ:94:LYS:CD	2.63	0.71
24:Ae:51:LYS:O	24:Ae:52:LYS:HB2	1.90	0.71
26:AJ:37:LEU:HD21	26:AJ:43:VAL:N	2.05	0.71
26:AJ:110:LEU:HB3	26:AJ:130:ILE:HD13	1.73	0.71
26:AJ:164:PRO:HA	26:AJ:167:GLY:O	1.90	0.71
27:AE:166:THR:OG1	27:AE:168:LYS:CG	2.38	0.71
29:AG:71:GLY:HA2	29:AG:98:ARG:HH21	1.55	0.71
29:AG:131:ARG:CD	29:AG:131:ARG:HG2	2.15	0.71
33:AI:82:VAL:CG1	33:AI:202:ILE:HD13	2.21	0.71
34:AQ:58:LEU:HD21	34:AQ:111:ILE:HD12	1.70	0.71
39:Cq:80:PRO:CB	39:Cq:81:HIS:ND1	2.53	0.71
39:Cq:90:PHE:O	39:Cq:91:THR:HG22	1.88	0.71
40:CK:38:SER:OG	40:CK:39:PRO:CD	2.38	0.71
42:CL:50:PRO:HG2	42:CL:51:ALA:HB1	1.72	0.71
43:CV:62:MET:HE3	43:CV:76:VAL:CG1	2.20	0.71
51:CA:188:LYS:CD	51:CA:189:TYR:CE2	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:82:LEU:CD2	52:CS:113:MET:HE2	2.20	0.71
53:CT:81:LYS:N	62:Cb:16:TRP:CH2	2.58	0.71
57:CY:27:ARG:NH2	57:CY:28:LYS:CE	2.53	0.71
58:CW:106:GLU:CD	58:CW:110:ARG:HH12	1.96	0.71
60:Cr:70:GLN:C	60:Cr:71:ARG:CG	2.64	0.71
63:CB:81:THR:OG1	63:CB:330:PHE:HA	1.90	0.71
63:CB:140:GLU:O	63:CB:141:ASP:HB3	1.90	0.71
63:CB:168:MET:HE1	63:CB:173:LEU:HD23	1.71	0.71
68:Cf:71:TRP:CH2	85:A5:4943:A:H2'	2.25	0.71
70:Ci:73:ILE:CG2	70:Ci:83:ALA:HA	2.20	0.71
74:CC:204:ARG:HA	74:CC:204:ARG:NE	2.04	0.71
77:Cp:68:ALA:HB3	77:Cp:69:TRP:CE3	2.25	0.71
80:CH:79:ASN:HA	80:CH:82:LYS:HG3	1.71	0.71
81:CE:224:LYS:O	81:CE:226:ARG:HD3	1.90	0.71
82:CG:128:VAL:HG12	82:CG:128:VAL:O	1.90	0.71
82:CG:243:GLY:CA	82:CG:244:PRO:HD3	2.21	0.71
83:Cs:43:TRP:O	83:Cs:47:PHE:CE2	2.42	0.71
1:Az:504:VAL:HG12	1:Az:812:CYS:SG	2.31	0.71
5:AO:17:LEU:HG	5:AO:18:GLY:H	1.56	0.71
6:AX:60:LYS:CG	6:AX:116:PRO:HG2	2.11	0.71
8:AS:84:LEU:HD22	8:AS:97:GLN:HB2	1.73	0.71
14:AT:4:VAL:HG12	14:AT:8:ASP:CB	2.21	0.71
14:AT:42:HIS:CE1	14:AT:83:GLN:HB3	2.25	0.71
16:AA:39:TYR:CB	16:AA:50:ASN:HD21	2.01	0.71
16:AA:52:LYS:HB3	16:AA:52:LYS:HZ1	1.52	0.71
24:Ae:46:VAL:O	24:Ae:47:PRO:HB2	1.90	0.71
25:Af:85:TYR:O	25:Af:86:THR:HG23	1.90	0.71
28:AC:91:SER:O	28:AC:94:ILE:CG2	2.38	0.71
29:AG:24:LEU:O	29:AG:26:THR:N	2.23	0.71
32:AW:3:ARG:C	32:AW:4:MET:SD	2.74	0.71
33:AI:112:TRP:CZ3	33:AI:117:TYR:HE2	2.08	0.71
34:AQ:112:LEU:HD13	34:AQ:120:LEU:CD2	2.21	0.71
39:Cq:134:LYS:N	39:Cq:134:LYS:HD2	2.06	0.71
39:Cq:220:ARG:CZ	39:Cq:223:ALA:CB	2.63	0.71
40:CK:86:LYS:HA	40:CK:104:ILE:HG12	1.72	0.71
40:CK:102:GLY:HA3	40:CK:139:VAL:C	1.91	0.71
40:CK:105:THR:HG22	40:CK:144:ASP:CA	2.19	0.71
40:CK:160:VAL:O	40:CK:163:PRO:HG2	1.86	0.71
43:CV:39:ILE:CG2	43:CV:61:VAL:HG11	2.17	0.71
44:CM:77:TRP:CB	44:CM:82:ILE:CG1	2.69	0.71
47:CI:30:LYS:HG2	47:CI:63:GLU:HG3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:59:GLN:HB3	47:CI:126:VAL:CG1	2.18	0.71
49:CQ:28:LEU:HD13	49:CQ:51:LEU:CD2	2.20	0.71
52:CS:45:TRP:O	52:CS:48:VAL:HG12	1.89	0.71
52:CS:164:LYS:HZ2	52:CS:165:PRO:CD	2.03	0.71
57:CY:62:TYR:HE1	57:CY:85:VAL:CG1	2.03	0.71
59:CZ:17:ARG:HA	69:Cg:76:ARG:HB2	1.73	0.71
63:CB:112:ASP:C	63:CB:114:CYS:N	2.46	0.71
63:CB:141:ASP:CG	63:CB:142:GLY:H	1.97	0.71
66:Cd:80:VAL:CG1	66:Cd:81:PRO:HD3	2.16	0.71
69:Cg:37:LYS:HE2	69:Cg:60:ARG:HH12	1.54	0.71
74:CC:124:ILE:HG12	74:CC:237:ILE:HG13	0.76	0.71
74:CC:140:LYS:HD3	74:CC:245:HIS:O	1.91	0.71
74:CC:210:ILE:CD1	74:CC:252:TRP:CZ3	2.74	0.71
78:Co:13:LYS:CE	78:Co:81:ARG:HD2	2.21	0.71
79:CJ:136:ARG:NH2	79:CJ:161:GLU:OE1	2.23	0.71
81:CE:70:LYS:C	81:CE:72:LYS:HE3	2.16	0.71
82:CG:80:ILE:CG2	82:CG:81:ASN:H	2.03	0.71
83:Ct:11:TYR:CA	84:Cv:9:LEU:HD21	2.19	0.71
84:Cu:8:LEU:O	84:Cu:12:LEU:HG	1.91	0.71
86:A7:115:A:H5"	86:A7:115:A:H8	1.56	0.71
1:Az:206:ASP:HA	1:Az:212:VAL:HG21	1.73	0.71
1:Az:481:LYS:HZ1	1:Az:532:PRO:C	1.74	0.71
1:Az:516:ASP:OD2	1:Az:568:ILE:HG21	1.90	0.71
4:AK:40:VAL:CG2	4:AK:41:PRO:O	2.38	0.71
7:AM:12:MET:HE2	7:AM:17:ALA:C	1.73	0.71
8:AS:42:HIS:CD2	14:AT:45:LEU:HG	2.23	0.71
8:AS:54:LYS:C	8:AS:54:LYS:CB	2.61	0.71
13:AP:62:LYS:C	13:AP:65:LYS:HG2	2.14	0.71
13:AP:69:PRO:HD2	13:AP:70:MET:H	1.53	0.71
13:AP:100:LYS:HD2	13:AP:101:THR:HG23	1.72	0.71
15:AB:228:LEU:HD13	15:AB:232:HIS:HD2	1.55	0.71
16:AA:127:PRO:HG3	16:AA:152:SER:HB3	1.72	0.71
23:AD:176:LEU:O	23:AD:177:LEU:HD13	1.90	0.71
32:AW:42:MET:CE	32:AW:50:PHE:CE2	2.73	0.71
38:Cz:150:GLU:HA	38:Cz:154:THR:CG2	2.13	0.71
39:Cq:110:ALA:CB	39:Cq:182:PRO:N	2.53	0.71
39:Cq:212:HIS:HE1	83:Cs:54:VAL:HG13	1.55	0.71
40:CK:161:GLU:C	40:CK:163:PRO:HD3	2.14	0.71
48:CD:152:ARG:HG3	48:CD:152:ARG:HH11	1.54	0.71
49:CQ:64:SER:CB	49:CQ:92:VAL:HG21	2.21	0.71
50:CR:102:LEU:HD22	50:CR:138:LEU:CD1	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:209:HIS:CE1	51:CA:211:PHE:CB	2.72	0.71
52:CS:29:ARG:O	53:CT:150:LEU:CG	2.37	0.71
55:CU:121:GLU:O	55:CU:122:GLU:HB2	1.89	0.71
57:CY:56:GLN:NE2	57:CY:105:VAL:HG11	2.05	0.71
59:CZ:12:LEU:CD1	59:CZ:134:LEU:HD22	2.19	0.71
60:Cr:70:GLN:HA	60:Cr:70:GLN:HE21	1.53	0.71
80:CH:12:ILE:HG21	80:CH:52:LYS:HE2	1.72	0.71
82:CG:73:ARG:HH12	82:CG:243:GLY:N	1.88	0.71
83:Ct:11:TYR:CE2	84:Cv:12:LEU:HD13	2.21	0.71
83:Ct:41:PRO:C	83:Ct:44:PRO:CG	2.61	0.71
85:A5:173:C:O2	85:A5:263:G:N2	2.23	0.71
85:A5:1266:G:N2	85:A5:2111:G:N2	2.39	0.71
1:Az:495:ARG:O	1:Az:496:VAL:HG12	1.90	0.71
1:Az:543:GLU:OE2	1:Az:576:VAL:CB	2.38	0.71
1:Az:762:VAL:O	1:Az:766:LYS:HD3	1.91	0.71
1:Az:801:ARG:HD2	1:Az:802:SER:N	2.05	0.71
3:Au:69:PRO:O	3:Au:69:PRO:CG	2.29	0.71
5:AO:30:VAL:HB	5:AO:32:HIS:NE2	2.06	0.71
7:AM:59:PRO:O	7:AM:62:VAL:HG22	1.90	0.71
8:AS:120:HIS:HA	13:AP:121:ILE:HG22	1.72	0.71
11:AL:40:ILE:CG2	11:AL:44:PHE:HB2	2.21	0.71
18:AY:36:PRO:CG	18:AY:39:GLU:HG3	2.10	0.71
22:Ac:46:VAL:HG11	22:Ac:50:VAL:CG2	2.21	0.71
26:AJ:87:LEU:HD11	26:AJ:91:LYS:HB3	1.72	0.71
27:AE:23:LEU:O	27:AE:24:THR:OG1	2.08	0.71
29:AG:71:GLY:CA	29:AG:98:ARG:NH2	2.54	0.71
30:AF:167:LYS:CE	30:AF:171:GLU:HG3	2.21	0.71
32:AW:20:ARG:HH22	36:B2:1139:C:H1'	1.56	0.71
32:AW:36:ARG:HD3	32:AW:110:ILE:CD1	2.16	0.71
33:AI:191:GLU:O	33:AI:192:GLY:O	2.09	0.71
42:CL:139:SER:HG	42:CL:142:GLU:HG2	1.55	0.71
43:CV:61:VAL:HG12	43:CV:62:MET:O	1.90	0.71
43:CV:93:GLY:N	63:CB:73:VAL:HG22	2.05	0.71
47:CI:92:HIS:HD2	47:CI:94:PHE:CZ	2.05	0.71
47:CI:156:LYS:CG	47:CI:163:GLN:HG2	2.19	0.71
49:CQ:61:LEU:HD13	49:CQ:139:LEU:CB	2.20	0.71
50:CR:160:GLU:O	50:CR:164:SER:HB3	1.90	0.71
51:CA:193:ARG:HH22	85:A5:3685:C:H5''	1.55	0.71
56:CX:39:LYS:C	56:CX:39:LYS:HD3	2.13	0.71
57:CY:66:GLN:HA	57:CY:66:GLN:HE21	0.66	0.71
60:Cr:72:LYS:N	60:Cr:73:PRO:CA	2.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:25:HIS:O	63:CB:222:VAL:HG23	1.91	0.71
66:Cd:118:GLN:HE22	85:A5:5055:G:N2	1.89	0.71
71:Cj:88:ARG:CG	71:Cj:88:ARG:NH1	2.29	0.71
74:CC:40:VAL:HG12	74:CC:44:LEU:HD12	1.70	0.71
74:CC:130:ALA:HB1	74:CC:246:VAL:HG11	1.69	0.71
74:CC:144:ILE:HD11	74:CC:249:PHE:HB2	1.72	0.71
74:CC:304:ALA:HB1	74:CC:305:PRO:HD2	1.72	0.71
75:Cm:94:MET:CE	75:Cm:123:PRO:HA	2.16	0.71
75:Cm:105:PRO:O	75:Cm:107:ALA:N	2.22	0.71
77:Cp:29:ILE:HG23	77:Cp:69:TRP:CG	2.26	0.71
77:Cp:52:VAL:HG13	77:Cp:68:ALA:HB1	1.72	0.71
81:CE:75:ALA:O	85:A5:981:C:H1'	1.90	0.71
81:CE:264:ILE:HG21	81:CE:267:LEU:N	2.06	0.71
82:CG:85:GLN:O	82:CG:86:ALA:CB	2.38	0.71
85:A5:3965:A:H5'	85:A5:3965:A:C8	2.25	0.71
1:Az:126:LEU:CD1	1:Az:353:MET:HE1	2.21	0.71
1:Az:150:ARG:HA	1:Az:200:MET:HE1	1.72	0.71
2:Ag:165:ILE:CG2	2:Ag:179:LEU:HD21	2.21	0.71
6:AX:125:VAL:O	6:AX:126:ALA:HB3	1.90	0.71
10:AN:46:THR:HG1	10:AN:49:GLN:CG	2.04	0.71
13:AP:128:HIS:NE2	36:B2:1521:C:H1'	2.04	0.71
18:AY:29:HIS:HD1	18:AY:67:GLY:CA	2.02	0.71
18:AY:54:VAL:O	18:AY:75:ILE:CA	2.37	0.71
18:AY:91:LEU:C	18:AY:97:TYR:HB3	2.14	0.71
18:AY:97:TYR:HD1	18:AY:98:GLU:N	1.89	0.71
23:AD:98:ALA:H	23:AD:188:ILE:HD12	1.55	0.71
23:AD:202:LYS:HB2	23:AD:203:PRO:HD2	1.73	0.71
26:Aj:15:THR:CG2	26:Aj:44:TRP:CE3	2.56	0.71
27:AE:92:ILE:HG22	27:AE:95:THR:OG1	1.89	0.71
27:AE:112:HIS:NE2	27:AE:237:SER:HB2	2.05	0.71
27:AE:153:LEU:HD11	27:AE:172:PHE:CZ	2.20	0.71
28:AC:99:GLY:HA2	28:AC:102:LEU:CB	2.16	0.71
31:AH:117:PRO:O	31:AH:120:ARG:N	2.24	0.71
31:AH:172:THR:O	31:AH:176:VAL:HG23	1.91	0.71
38:Cz:59:PRO:HB2	38:Cz:61:PRO:HD2	1.72	0.71
38:Cz:194:LEU:HD23	38:Cz:200:ASN:OD1	1.90	0.71
39:Cq:110:ALA:CB	39:Cq:181:SER:C	2.53	0.71
39:Cq:123:VAL:CG2	39:Cq:160:LEU:CD1	2.69	0.71
39:Cq:126:GLN:HE21	39:Cq:127:ASN:ND2	1.87	0.71
40:CK:80:LEU:HA	40:CK:83:LYS:HD2	1.70	0.71
41:CO:108:ILE:HG23	41:CO:108:ILE:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:9:SER:HG	43:CV:128:LEU:CG	2.03	0.71
47:CI:206:LEU:HA	47:CI:209:TRP:CB	2.21	0.71
48:CD:19:LYS:CB	48:CD:23:ARG:HG2	2.20	0.71
49:CQ:30:LYS:CE	60:Cr:8:MET:HE3	2.21	0.71
52:CS:29:ARG:HB3	53:CT:150:LEU:HB2	1.71	0.71
56:CX:40:ILE:CG1	56:CX:41:ARG:H	2.01	0.71
56:CX:63:LYS:HB3	56:CX:63:LYS:NZ	2.05	0.71
56:CX:123:LYS:HD3	56:CX:139:ARG:HB3	1.73	0.71
64:CF:182:TYR:CD1	64:CF:200:ARG:HD2	2.26	0.71
64:CF:220:MET:HB2	64:CF:232:ASP:OD2	1.90	0.71
78:Co:73:VAL:CG1	78:Co:74:GLU:HG3	2.21	0.71
80:CH:25:VAL:HG11	80:CH:38:PHE:CE2	2.26	0.71
81:CE:224:LYS:O	81:CE:226:ARG:N	2.23	0.71
81:CE:242:ILE:CG1	81:CE:246:ARG:CD	2.61	0.71
81:CE:264:ILE:HG22	81:CE:266:GLN:N	2.05	0.71
82:CG:163:PRO:CB	82:CG:166:LEU:CD1	2.68	0.71
83:Cs:17:HIS:CD2	83:Cs:56:ILE:HD13	2.26	0.71
1:Az:634:TYR:HA	1:Az:638:LYS:HD3	1.70	0.71
2:Ag:12:LYS:HD2	2:Ag:13:GLY:N	2.03	0.71
2:Ag:143:GLN:CG	2:Ag:144:ASP:HB2	2.19	0.71
2:Ag:172:LYS:CE	2:Ag:192:THR:CB	2.67	0.71
13:AP:126:VAL:HG12	13:AP:127:LYS:H	0.60	0.71
15:AB:79:VAL:O	15:AB:79:VAL:HG23	1.90	0.71
28:AC:169:TYR:CZ	28:AC:177:PRO:HD3	2.24	0.71
34:AQ:17:LYS:HE2	36:B2:1648:G:C6	2.26	0.71
34:AQ:109:LYS:CG	34:AQ:113:ILE:CD1	2.47	0.71
36:B2:181:A:H4'	36:B2:182:C:C5'	2.19	0.71
36:B2:532:C:C2'	36:B2:533:A:H5'	2.20	0.71
38:Cz:39:LYS:HG2	38:Cz:202:ARG:HB2	1.72	0.71
38:Cz:58:THR:HA	38:Cz:153:SER:OG	1.91	0.71
39:Cq:246:LYS:HA	39:Cq:249:LEU:HD21	1.73	0.71
40:CK:22:VAL:HG23	40:CK:48:LYS:HG3	1.71	0.71
42:CL:21:ARG:HB3	46:CN:196:ASN:O	1.91	0.71
44:CM:77:TRP:CB	44:CM:82:ILE:HG13	2.21	0.71
45:Ca:147:VAL:HG12	45:Ca:148:ALA:N	2.06	0.71
46:CN:68:ARG:HH11	46:CN:125:SER:C	1.98	0.71
48:CD:61:ILE:HG12	48:CD:79:TYR:CD1	2.26	0.71
48:CD:188:LYS:O	48:CD:189:GLU:CB	2.37	0.71
49:CQ:3:VAL:HG22	64:CF:116:GLN:HE21	1.55	0.71
53:CT:45:MET:O	53:CT:95:HIS:HE1	1.73	0.71
56:CX:81:LEU:HB2	56:CX:97:VAL:HG12	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:11:VAL:HG13	59:CZ:81:MET:C	2.15	0.71
61:Ch:48:ARG:HH11	61:Ch:48:ARG:CB	2.03	0.71
63:CB:24:ARG:O	63:CB:24:ARG:CG	2.35	0.71
70:CI:62:LYS:C	70:CI:63:VAL:HG23	2.10	0.71
74:CC:40:VAL:O	74:CC:44:LEU:HG	1.89	0.71
74:CC:110:ARG:HD2	74:CC:113:ARG:HE	1.55	0.71
74:CC:209:ILE:HD13	74:CC:221:PHE:CE1	2.26	0.71
77:Cp:50:ARG:O	77:Cp:54:ILE:CG2	2.38	0.71
78:Co:2:VAL:HG22	78:Co:90:HIS:O	1.90	0.71
82:CG:121:LYS:HG3	82:CG:127:ASP:OD1	1.89	0.71
83:Cs:11:TYR:HD2	84:Cu:12:LEU:CD1	1.97	0.71
1:Az:10:ARG:CZ	1:Az:465:PRO:HD3	2.21	0.71
1:Az:775:GLN:CG	1:Az:782:PHE:CD2	2.70	0.71
2:Ag:280:LYS:O	2:Ag:281:ALA:C	2.33	0.71
6:AX:71:ARG:CG	6:AX:82:THR:HG22	2.16	0.71
14:AT:16:ARG:HH11	14:AT:16:ARG:CG	2.03	0.71
23:AD:132:LYS:HB2	23:AD:191:PRO:CD	2.20	0.71
26:AJ:87:LEU:CD1	26:AJ:91:LYS:CB	2.69	0.71
27:AE:2:ALA:O	27:AE:3:ARG:HG2	1.90	0.71
28:AC:146:GLU:O	28:AC:149:THR:HG22	1.90	0.71
29:AG:32:MET:SD	29:AG:100:CYS:C	2.74	0.71
31:AH:169:LYS:HB2	31:AH:173:PHE:HE2	1.51	0.71
33:AI:149:TYR:HD1	33:AI:152:ARG:HH12	1.34	0.71
38:Cz:98:LYS:HA	38:Cz:103:LEU:HD12	1.71	0.71
40:CK:61:LYS:HE3	40:CK:72:GLU:C	2.15	0.71
42:CL:179:PHE:O	42:CL:183:ARG:HG2	1.90	0.71
46:CN:42:PRO:N	46:CN:61:ILE:HD12	2.06	0.71
46:CN:64:ILE:HD13	46:CN:102:ALA:CB	2.20	0.71
46:CN:182:HIS:CD2	85:A5:291:U:O2'	2.44	0.71
47:CI:150:GLU:OE1	47:CI:150:GLU:HA	1.91	0.71
49:CQ:101:CYS:SG	49:CQ:121:LEU:HB2	2.31	0.71
51:CA:15:VAL:O	51:CA:15:VAL:HG12	1.90	0.71
51:CA:28:ARG:HD3	51:CA:123:ARG:HG2	1.72	0.71
53:CT:91:VAL:HG12	53:CT:92:ARG:N	2.06	0.71
55:CU:21:PHE:HE1	55:CU:80:LYS:CD	2.03	0.71
56:CX:119:ILE:CD1	56:CX:140:LEU:HD21	2.16	0.71
57:CY:89:LYS:CD	57:CY:90:ALA:N	2.42	0.71
58:CW:11:TYR:CD2	63:CB:378:ARG:NH2	2.59	0.71
59:CZ:73:LYS:HE3	59:CZ:75:TYR:CD1	2.25	0.71
63:CB:56:ILE:CD1	63:CB:368:ILE:HG12	2.20	0.71
63:CB:87:VAL:HG22	63:CB:163:ILE:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:CF:182:TYR:CD1	64:CF:200:ARG:CD	2.74	0.71
67:Ce:6:PRO:CD	67:Ce:93:LYS:CG	2.69	0.71
67:Ce:37:LYS:HD3	67:Ce:38:PRO:HD2	1.73	0.71
69:Cg:46:CYS:HB2	69:Cg:86:CYS:SG	2.31	0.71
74:CC:183:VAL:O	74:CC:184:TYR:CB	2.39	0.71
74:CC:212:ASN:O	74:CC:213:GLU:CB	2.35	0.71
74:CC:337:ARG:NH1	81:CE:62:MET:HE1	2.06	0.71
80:CH:105:ILE:HD12	80:CH:112:VAL:HG13	1.71	0.71
80:CH:134:CYS:SG	80:CH:146:LEU:HD23	2.30	0.71
81:CE:264:ILE:CG2	81:CE:266:GLN:H	2.04	0.71
85:A5:4229:U:N3	85:A5:4336:A:C2	2.59	0.71
1:Az:45:ILE:HD12	1:Az:78:PHE:CG	2.04	0.70
1:Az:162:ARG:HG3	1:Az:166:GLU:HG2	1.72	0.70
8:AS:15:VAL:HG13	8:AS:68:ILE:CD1	2.20	0.70
10:AN:53:ILE:CD1	21:Ab:52:THR:HG22	2.21	0.70
12:AR:95:ILE:HA	12:AR:114:LEU:HD13	1.73	0.70
13:AP:41:GLN:CD	13:AP:41:GLN:O	2.33	0.70
18:AY:55:ILE:HG13	18:AY:75:ILE:HG12	1.65	0.70
18:AY:93:ARG:O	18:AY:93:ARG:HD2	1.91	0.70
19:AZ:85:ARG:CB	19:AZ:85:ARG:HH11	2.03	0.70
27:AE:11:ARG:O	27:AE:12:VAL:CG2	2.39	0.70
28:AC:253:PRO:HA	28:AC:256:TRP:CD1	2.26	0.70
30:AF:122:ARG:NE	30:AF:193:LYS:HZ3	1.89	0.70
33:AI:141:ARG:HD2	33:AI:144:LYS:CB	1.99	0.70
40:CK:10:ILE:CG2	40:CK:67:ARG:N	2.53	0.70
42:CL:9:VAL:CG1	42:CL:10:LEU:H	2.04	0.70
43:CV:82:ILE:HG23	43:CV:121:VAL:HG13	0.74	0.70
46:CN:64:ILE:HD13	46:CN:102:ALA:CA	2.19	0.70
47:CI:189:CYS:O	47:CI:200:VAL:CG1	2.33	0.70
49:CQ:154:LYS:CD	49:CQ:163:THR:CG2	2.64	0.70
51:CA:32:VAL:O	51:CA:32:VAL:HG12	1.91	0.70
53:CT:17:ARG:CG	53:CT:17:ARG:NH2	2.48	0.70
56:CX:39:LYS:CD	56:CX:40:ILE:N	2.50	0.70
58:CW:27:LYS:CE	58:CW:29:PHE:CZ	2.72	0.70
58:CW:34:ALA:CA	58:CW:37:GLU:OE1	2.39	0.70
60:Cr:108:MET:HE1	81:CE:115:TYR:CG	2.26	0.70
64:CF:153:LEU:HD23	64:CF:248:ASN:ND2	2.06	0.70
68:Cf:9:ALA:HB1	68:Cf:28:LEU:CD1	2.19	0.70
68:Cf:106:TYR:HA	68:Cf:107:PRO:C	2.16	0.70
74:CC:316:LYS:CB	74:CC:324:ILE:HD12	2.21	0.70
75:Cm:94:MET:CE	75:Cm:123:PRO:CD	2.52	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:24:THR:OG1	78:Co:69:ARG:HB3	1.91	0.70
79:CJ:134:LEU:CB	79:CJ:157:ILE:HD13	2.21	0.70
82:CG:21:LYS:O	82:CG:22:GLN:C	2.33	0.70
83:Cs:40:GLU:O	83:Cs:44:PRO:HD3	1.91	0.70
1:Az:275:LYS:O	1:Az:275:LYS:CE	2.31	0.70
1:Az:563:GLU:CD	1:Az:563:GLU:O	2.34	0.70
1:Az:749:ILE:HD12	1:Az:759:ILE:HG13	1.73	0.70
2:Ag:2:THR:CG2	2:Ag:3:GLU:HG2	2.20	0.70
2:Ag:144:ASP:C	2:Ag:146:SER:N	2.39	0.70
2:Ag:184:LEU:HD12	2:Ag:184:LEU:O	1.90	0.70
4:AK:2:LEU:HD13	4:AK:3:MET:CA	2.21	0.70
4:AK:18:GLU:C	4:AK:92:ALA:CB	2.64	0.70
4:AK:62:PHE:HE1	4:AK:67:PHE:CE2	2.07	0.70
6:AX:32:LEU:O	6:AX:37:LYS:HE3	1.91	0.70
10:AN:55:ARG:HH22	21:Ab:51:GLN:NE2	1.88	0.70
14:AT:110:LEU:O	14:AT:111:LYS:HB2	1.90	0.70
16:AA:57:LYS:CE	17:AV:70:LEU:HD21	2.21	0.70
16:AA:154:LEU:HD22	16:AA:157:VAL:HG23	1.72	0.70
17:AV:80:SER:HB2	17:AV:81:LYS:HE2	1.73	0.70
18:AY:54:VAL:O	18:AY:54:VAL:HG12	1.89	0.70
21:Ab:6:ASP:O	21:Ab:8:LEU:N	2.24	0.70
27:AE:163:ASP:O	27:AE:164:LEU:HB2	1.91	0.70
29:AG:64:LYS:CE	29:AG:67:VAL:HG13	2.22	0.70
30:AF:35:LEU:HD12	30:AF:117:ILE:HG23	1.72	0.70
30:AF:53:ALA:HB1	34:AQ:125:ARG:HH21	1.56	0.70
30:AF:93:VAL:O	30:AF:97:PHE:CE1	2.43	0.70
31:AH:191:GLU:OE1	31:AH:193:GLN:OE1	2.10	0.70
33:AI:5:ARG:HG2	33:AI:5:ARG:NH1	2.06	0.70
39:Cq:221:ASN:CG	84:Cu:55:ILE:HG21	2.16	0.70
40:CK:10:ILE:CG1	40:CK:67:ARG:HA	2.18	0.70
40:CK:86:LYS:HA	40:CK:104:ILE:CG1	2.21	0.70
44:CM:35:ARG:N	44:CM:52:PHE:CD2	2.59	0.70
47:CI:181:PHE:CE1	47:CI:190:LEU:CD1	2.74	0.70
51:CA:116:LEU:HD12	51:CA:116:LEU:O	1.92	0.70
51:CA:205:ASN:HB3	51:CA:206:PRO:HD3	1.73	0.70
52:CS:71:SER:CB	52:CS:74:ARG:CB	2.68	0.70
52:CS:140:PRO:O	52:CS:143:LYS:N	2.24	0.70
63:CB:327:THR:CG2	63:CB:328:ASN:ND2	2.53	0.70
78:Co:61:LYS:HB3	78:Co:61:LYS:NZ	2.06	0.70
79:CJ:26:VAL:CG2	79:CJ:33:LEU:HD23	2.21	0.70
81:CE:54:ILE:O	81:CE:62:MET:HE2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:217:LYS:HE2	82:CG:217:LYS:HA	0.73	0.70
1:Az:206:ASP:C	1:Az:212:VAL:HG23	2.15	0.70
1:Az:571:LYS:CE	1:Az:571:LYS:HA	2.19	0.70
2:Ag:76:GLN:HA	2:Ag:76:GLN:HE21	1.56	0.70
2:Ag:87:LEU:CD1	2:Ag:101:PHE:HB3	2.11	0.70
2:Ag:201:SER:HB2	2:Ag:202:PRO:HD2	1.74	0.70
10:AN:27:LYS:H	10:AN:27:LYS:HE2	1.54	0.70
11:AL:10:TYR:CE1	33:AI:193:LYS:HG3	2.26	0.70
12:AR:37:GLU:OE1	12:AR:38:ILE:CG2	2.39	0.70
12:AR:90:ALA:CA	12:AR:91:LEU:HD12	2.21	0.70
12:AR:91:LEU:CG	12:AR:92:ASP:HA	2.21	0.70
26:AJ:109:ARG:O	26:AJ:110:LEU:C	2.34	0.70
29:AG:191:ARG:HH22	36:B2:312:G:H8	1.38	0.70
31:AH:10:LYS:HB3	31:AH:20:GLU:OE1	1.90	0.70
31:AH:65:PRO:C	31:AH:67:PRO:HD2	2.15	0.70
32:AW:128:PHE:CZ	32:AW:130:PHE:CE2	2.78	0.70
34:AQ:78:VAL:HG13	34:AQ:82:TYR:HE2	1.55	0.70
36:B2:897:U:O2'	36:B2:898:U:O4'	2.06	0.70
39:Cq:110:ALA:HB1	39:Cq:181:SER:HA	1.67	0.70
39:Cq:119:CYS:HA	39:Cq:163:THR:HG21	1.73	0.70
39:Cq:233:THR:CG2	84:Cu:4:VAL:HG21	2.21	0.70
39:Cq:236:SER:O	39:Cq:238:PRO:CG	2.40	0.70
41:CO:127:VAL:HG12	52:CS:158:VAL:CG2	2.21	0.70
46:CN:99:GLN:HG2	46:CN:130:PHE:CE1	2.26	0.70
46:CN:135:ILE:HG22	46:CN:142:ILE:HD13	1.72	0.70
49:CQ:25:LEU:HA	49:CQ:28:LEU:CD2	2.20	0.70
49:CQ:27:LEU:HD22	74:CC:289:LEU:HD21	1.72	0.70
53:CT:152:GLU:H	53:CT:152:GLU:CD	1.98	0.70
54:CP:41:ILE:HD12	54:CP:112:LEU:HB2	1.68	0.70
58:CW:11:TYR:HB3	58:CW:32:LEU:HD23	1.71	0.70
58:CW:17:HIS:O	58:CW:18:GLY:C	2.34	0.70
63:CB:108:GLU:CB	63:CB:137:TRP:CD1	2.71	0.70
70:Ci:64:SER:O	70:Ci:65:LYS:HB2	1.88	0.70
74:CC:232:VAL:C	74:CC:263:LEU:HD12	2.16	0.70
78:Co:85:ILE:CG2	78:Co:86:LYS:H	2.00	0.70
82:CG:82:GLN:OE1	82:CG:233:ILE:HG21	1.90	0.70
5:AO:52:THR:CG2	36:B2:953:C:H4'	2.22	0.70
6:AX:128:VAL:HG11	6:AX:133:LEU:HD21	1.72	0.70
7:AM:44:LYS:O	7:AM:46:GLN:N	2.25	0.70
10:AN:16:LEU:HD22	10:AN:17:PRO:CD	2.21	0.70
12:AR:19:LYS:HD2	23:AD:212:GLU:HG3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:154:LEU:HD22	16:AA:157:VAL:CG2	2.21	0.70
20:Aa:45:VAL:HG23	20:Aa:46:GLU:H	1.57	0.70
24:Ae:42:PHE:HZ	26:AJ:26:ASP:CB	2.05	0.70
26:AJ:130:ILE:HG23	26:AJ:135:ILE:CD1	2.17	0.70
27:AE:62:LYS:HD3	27:AE:80:ILE:HD11	0.79	0.70
27:AE:126:VAL:HG22	27:AE:157:ASN:H	1.56	0.70
31:AH:149:ASP:O	31:AH:149:ASP:CG	2.34	0.70
33:AI:105:ASP:O	33:AI:169:GLY:O	2.09	0.70
35:Ah:152:SER:OG	35:Ah:154:ASP:CA	2.38	0.70
38:Cz:120:ILE:HG13	38:Cz:124:LEU:CD1	2.13	0.70
45:Ca:24:LYS:CE	45:Ca:26:ARG:HH21	2.05	0.70
49:CQ:88:ASP:OD2	49:CQ:108:ARG:CG	2.40	0.70
59:CZ:12:LEU:HD13	59:CZ:134:LEU:CD2	2.20	0.70
63:CB:39:LYS:CB	63:CB:40:PRO:CD	2.67	0.70
63:CB:282:LYS:HB2	63:CB:333:LEU:HD11	1.74	0.70
63:CB:374:PHE:O	85:A5:4664:A:O3'	2.09	0.70
64:CF:30:ILE:CG2	64:CF:34:ARG:HH21	1.90	0.70
68:Cf:13:GLY:HA2	68:Cf:97:ILE:HD12	1.72	0.70
68:Cf:74:VAL:CG1	68:Cf:84:VAL:HG11	2.19	0.70
71:Cj:64:MET:CE	71:Cj:68:LYS:CA	2.60	0.70
73:Cl:26:TRP:CH2	73:Cl:27:ILE:HD11	2.26	0.70
73:Cl:42:ARG:HD2	73:Cl:49:LEU:HD21	1.71	0.70
79:CJ:56:THR:HG22	79:CJ:64:ARG:H	1.54	0.70
81:CE:46:ARG:NE	81:CE:46:ARG:C	2.49	0.70
83:Cs:31:LEU:HD21	84:Cu:30:VAL:HA	1.71	0.70
83:Cs:41:PRO:HA	83:Cs:44:PRO:HG2	1.71	0.70
84:Cu:5:ALA:O	84:Cu:9:LEU:HG	1.91	0.70
1:Az:45:ILE:HG21	1:Az:77:LEU:CA	2.21	0.70
1:Az:143:LEU:HD21	1:Az:189:ILE:CD1	2.22	0.70
1:Az:543:GLU:CD	1:Az:576:VAL:CG2	2.62	0.70
1:Az:693:CYS:HB3	1:Az:835:VAL:HA	1.73	0.70
2:Ag:172:LYS:NZ	2:Ag:192:THR:CG2	2.53	0.70
4:AK:16:PHE:CE2	4:AK:79:LEU:C	2.69	0.70
5:AO:55:ARG:C	5:AO:56:VAL:HG12	2.16	0.70
7:AM:86:GLY:CA	7:AM:106:CYS:HB2	2.20	0.70
12:AR:101:ASP:O	12:AR:105:MET:N	2.24	0.70
16:AA:76:VAL:HG13	16:AA:175:TRP:CZ3	2.25	0.70
16:AA:111:GLN:HB3	28:AC:63:VAL:HG11	1.73	0.70
16:AA:120:ARG:CG	28:AC:266:TYR:CE2	2.74	0.70
26:AJ:143:ASN:C	26:AJ:144:ILE:HG13	2.13	0.70
28:AC:75:ILE:C	28:AC:97:PHE:CE1	2.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:137:VAL:CG1	28:AC:217:ALA:HA	2.22	0.70
29:AG:78:SER:OG	29:AG:81:HIS:CD2	2.44	0.70
31:AH:190:PRO:HB2	31:AH:191:GLU:CG	2.22	0.70
32:AW:27:ILE:CG1	32:AW:61:ILE:HB	2.19	0.70
34:AQ:85:ARG:HH22	34:AQ:117:ARG:CD	2.03	0.70
36:B2:561:A:C2	36:B2:562:U:N3	2.59	0.70
39:Cq:26:LYS:CE	39:Cq:94:ASP:N	2.55	0.70
39:Cq:29:ILE:HG23	39:Cq:86:VAL:HG11	1.72	0.70
39:Cq:39:GLN:NE2	39:Cq:186:GLY:CA	2.32	0.70
40:CK:86:LYS:C	40:CK:104:ILE:HG21	2.16	0.70
42:CL:89:LYS:HD3	61:Ch:114:TYR:CD2	2.26	0.70
46:CN:32:GLN:HB2	82:CG:67:ARG:HH22	1.56	0.70
49:CQ:33:ARG:NE	49:CQ:52:PHE:HZ	1.90	0.70
50:CR:133:LYS:CG	50:CR:137:ILE:HG21	2.20	0.70
50:CR:161:ALA:O	50:CR:165:LYS:HB2	1.91	0.70
51:CA:159:SER:OG	51:CA:162:ASN:CG	2.34	0.70
55:CU:25:CYS:O	55:CU:29:VAL:CG2	2.37	0.70
55:CU:60:VAL:N	55:CU:75:GLU:CG	2.54	0.70
56:CX:81:LEU:CD1	56:CX:135:LYS:HG3	2.21	0.70
60:Cr:126:VAL:O	60:Cr:128:ARG:N	2.20	0.70
61:Ch:55:ALA:O	61:Ch:59:THR:HG23	1.92	0.70
63:CB:219:VAL:HG21	63:CB:337:VAL:HG11	1.73	0.70
63:CB:298:LEU:C	63:CB:300:LYS:CE	2.64	0.70
68:Cf:69:VAL:HG11	68:Cf:71:TRP:CZ2	2.25	0.70
69:Cg:7:TYR:CE1	69:Cg:20:THR:HG21	2.26	0.70
69:Cg:25:THR:N	69:Cg:29:ARG:O	2.19	0.70
74:CC:14:LYS:O	74:CC:15:GLY:C	2.35	0.70
74:CC:109:ARG:HB3	74:CC:109:ARG:NH1	2.06	0.70
81:CE:140:LEU:CD1	81:CE:167:GLN:OE1	2.39	0.70
82:CG:95:LEU:CD2	82:CG:218:LEU:CD2	2.31	0.70
82:CG:143:VAL:CA	82:CG:146:LEU:HG	2.20	0.70
1:Az:740:LEU:HB3	1:Az:831:PRO:HB3	0.79	0.70
1:Az:845:LYS:NZ	1:Az:845:LYS:HA	2.06	0.70
2:Ag:306:LEU:HD23	2:Ag:307:VAL:C	2.17	0.70
5:AO:16:SER:O	5:AO:17:LEU:HB3	1.90	0.70
10:AN:18:TYR:CD2	31:AH:140:VAL:O	2.43	0.70
13:AP:84:ILE:CD1	13:AP:115:TYR:CE1	2.74	0.70
17:AV:53:TYR:CZ	17:AV:72:LEU:HB3	2.26	0.70
18:AY:48:TYR:O	18:AY:50:THR:CG2	2.38	0.70
21:Ab:33:MET:CE	21:Ab:35:VAL:HG22	2.06	0.70
24:Ae:28:LYS:HG3	24:Ae:33:LYS:CB	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:31:ARG:CG	26:AJ:37:LEU:C	2.65	0.70
26:AJ:138:ARG:CB	26:AJ:156:HIS:HB3	2.21	0.70
27:AE:67:GLN:O	27:AE:68:ARG:HG3	1.91	0.70
29:AG:50:VAL:HG11	29:AG:111:LEU:HD22	1.73	0.70
32:AW:78:ARG:CD	32:AW:126:LEU:HD23	2.22	0.70
41:CO:66:PRO:CD	41:CO:67:SER:H	2.03	0.70
41:CO:120:VAL:HA	52:CS:166:ARG:O	1.91	0.70
42:CL:127:PHE:HE2	42:CL:144:LEU:CD2	2.04	0.70
42:CL:176:PHE:CD1	42:CL:176:PHE:C	2.69	0.70
47:CI:99:ILE:HD12	47:CI:123:GLN:OE1	1.91	0.70
48:CD:253:TYR:O	48:CD:254:GLU:OE2	2.09	0.70
52:CS:24:THR:CG2	52:CS:25:PRO:N	2.55	0.70
52:CS:140:PRO:HD2	52:CS:141:ALA:N	2.05	0.70
52:CS:160:ARG:HH22	85:A5:1920:C:H5'	1.57	0.70
53:CT:41:ASP:HB2	53:CT:61:THR:HG22	1.72	0.70
56:CX:117:TYR:HB3	56:CX:119:ILE:HG22	1.69	0.70
58:CW:4:GLU:CD	58:CW:5:LEU:N	2.49	0.70
58:CW:23:ARG:HH11	58:CW:23:ARG:CB	1.90	0.70
60:Cr:76:SER:O	60:Cr:79:ARG:CD	2.39	0.70
60:Cr:123:PRO:HB3	60:Cr:127:LYS:CD	2.20	0.70
64:CF:41:MET:CE	85:A5:2121:C:C5'	2.58	0.70
69:Cg:79:GLY:O	69:Cg:82:MET:N	2.24	0.70
70:Ci:58:MET:SD	70:Ci:61:LEU:HD12	2.32	0.70
74:CC:109:ARG:CG	74:CC:111:TRP:CZ3	2.73	0.70
74:CC:143:ARG:HG2	74:CC:143:ARG:NH1	2.06	0.70
78:Co:66:ILE:O	78:Co:67:VAL:C	2.29	0.70
79:CJ:90:ARG:CZ	79:CJ:108:GLY:O	2.40	0.70
80:CH:109:GLY:C	80:CH:128:MET:O	2.35	0.70
82:CG:89:ARG:H	82:CG:89:ARG:NE	1.90	0.70
82:CG:175:ARG:HD3	82:CG:175:ARG:C	2.16	0.70
85:A5:708:G:N2	85:A5:4941:G:H1	1.89	0.70
85:A5:1268:G:C4	85:A5:2111:G:N2	2.59	0.70
85:A5:2855:G:H21	85:A5:2858:A:H61	1.37	0.70
1:Az:649:ILE:HD11	1:Az:652:PHE:HE1	1.57	0.70
1:Az:746:LEU:HA	1:Az:786:ALA:O	1.91	0.70
6:AX:29:LYS:CD	6:AX:34:THR:CB	2.69	0.70
8:AS:50:ILE:CG1	8:AS:63:GLU:HG2	2.22	0.70
11:AL:99:TYR:C	11:AL:100:ASN:OD1	2.35	0.70
11:AL:147:LYS:HD2	11:AL:149:ALA:N	2.07	0.70
13:AP:49:LEU:HD13	13:AP:51:ARG:HH21	1.57	0.70
14:AT:101:ARG:HG2	14:AT:105:GLN:NE2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:11:LYS:CG	16:AA:13:GLU:HG3	2.21	0.70
18:AY:98:GLU:C	18:AY:98:GLU:OE2	2.35	0.70
21:Ab:73:LEU:CD1	21:Ab:79:PHE:CD2	2.75	0.70
23:AD:132:LYS:CG	23:AD:191:PRO:HG3	2.19	0.70
23:AD:166:TYR:HD1	23:AD:200:PRO:HB2	1.53	0.70
23:AD:226:GLN:HE21	23:AD:226:GLN:C	1.99	0.70
26:AJ:15:THR:HB	26:AJ:44:TRP:CZ3	2.27	0.70
26:AJ:46:VAL:HG12	26:AJ:102:ILE:HG23	1.72	0.70
30:AF:18:LYS:HD2	34:AQ:57:LEU:CD2	2.21	0.70
30:AF:19:LEU:HD22	30:AF:24:SER:CA	2.21	0.70
33:AI:5:ARG:HH11	33:AI:5:ARG:CG	2.04	0.70
34:AQ:53:GLU:OE1	34:AQ:85:ARG:NH2	2.24	0.70
38:Cz:29:LEU:HB3	38:Cz:60:ARG:HH22	1.57	0.70
41:CO:22:ILE:CD1	52:CS:162:GLN:OE1	2.40	0.70
42:CL:39:ARG:HH11	85:A5:1362:G:H5'	1.55	0.70
42:CL:190:ARG:HG3	42:CL:190:ARG:HH11	1.56	0.70
44:CM:32:ASP:CA	52:CS:145:PHE:HZ	1.95	0.70
47:CI:3:ARG:CG	47:CI:123:GLN:NE2	2.54	0.70
47:CI:109:ASP:HA	47:CI:112:GLN:NE2	2.06	0.70
47:CI:185:VAL:HG22	47:CI:190:LEU:HD12	0.71	0.70
56:CX:52:LEU:HD12	56:CX:54:LEU:CD2	2.21	0.70
59:CZ:105:ALA:HA	59:CZ:108:ARG:HG2	1.72	0.70
65:Cc:94:LEU:HG	65:Cc:95:ALA:N	2.05	0.70
69:Cg:47:GLY:O	69:Cg:48:VAL:CG2	2.29	0.70
82:CG:41:ILE:C	82:CG:43:GLN:HG2	2.17	0.70
82:CG:51:LEU:O	82:CG:54:PHE:N	2.23	0.70
82:CG:90:GLN:O	82:CG:91:THR:C	2.28	0.70
1:Az:61:LYS:O	1:Az:62:ASP:CB	2.40	0.70
1:Az:137:VAL:HG12	1:Az:807:GLN:OE1	1.92	0.70
1:Az:417:PHE:CD2	1:Az:494:MET:HE1	2.26	0.70
2:Ag:93:THR:CB	2:Ag:94:THR:HG23	2.21	0.70
2:Ag:172:LYS:HE3	2:Ag:192:THR:CB	2.21	0.70
3:AU:62:ARG:HH12	3:AU:64:THR:CG2	1.76	0.70
5:AO:53:ILE:HG22	15:AB:25:PHE:HE1	1.54	0.70
13:AP:15:PHE:HE2	13:AP:110:GLU:HB3	1.55	0.70
16:AA:118:GLU:CB	28:AC:65:LYS:HZ3	2.03	0.70
19:AZ:92:LEU:CD1	19:AZ:99:LEU:HD21	2.21	0.70
21:Ab:83:GLN:HE21	21:Ab:83:GLN:HA	1.56	0.70
29:AG:131:ARG:HG2	58:CW:80:ARG:C	2.17	0.70
38:Cz:67:VAL:HG22	38:Cz:111:LEU:CD1	2.21	0.70
39:Cq:25:PRO:CD	39:Cq:92:LYS:HA	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:214:ARG:CB	83:Cs:10:ILE:CD1	2.70	0.70
40:CK:123:ARG:NH1	40:CK:129:ILE:HD12	2.07	0.70
42:CL:21:ARG:HE	46:CN:196:ASN:HB3	1.56	0.70
43:CV:26:ILE:HB	43:CV:101:ASN:O	1.92	0.70
43:CV:32:THR:CG2	43:CV:113:LYS:CG	2.69	0.70
46:CN:138:PHE:HA	46:CN:143:ARG:HH21	1.54	0.70
47:CI:99:ILE:HD12	47:CI:123:GLN:HE22	1.56	0.70
48:CD:91:GLY:O	48:CD:94:ASN:ND2	2.24	0.70
48:CD:232:THR:CB	48:CD:233:PRO:HD3	2.22	0.70
58:CW:70:LYS:O	58:CW:71:ARG:CG	2.40	0.70
61:Ch:31:LEU:O	61:Ch:34:ALA:HB3	1.91	0.70
62:Cb:54:LEU:HG	62:Cb:58:GLN:OE1	1.91	0.70
63:CB:311:ASP:O	63:CB:312:LYS:CB	2.38	0.70
64:CF:140:ILE:O	64:CF:233:ALA:HA	1.92	0.70
65:Cc:26:LYS:HG3	65:Cc:97:ILE:HB	1.74	0.70
68:Cf:53:ALA:CA	68:Cf:54:LYS:CD	2.29	0.70
74:CC:5:ARG:NH1	74:CC:26:ALA:HB2	2.06	0.70
81:CE:111:LYS:O	81:CE:113:PRO:HD2	1.91	0.70
81:CE:205:ASN:ND2	81:CE:205:ASN:N	2.36	0.70
83:Ct:15:ILE:HG12	84:Cv:5:ALA:HB3	1.73	0.70
85:A5:3965:A:C8	85:A5:3965:A:C5'	2.74	0.70
1:Az:191:THR:HG21	1:Az:192:TYR:CE2	2.25	0.70
1:Az:296:PRO:HA	1:Az:299:LYS:HE2	1.74	0.70
2:Ag:46:THR:OG1	2:Ag:48:ASP:HB2	1.92	0.70
4:AK:38:LYS:O	4:AK:39:ASN:HB2	1.90	0.70
10:AN:142:GLU:CD	10:AN:144:SER:OG	2.34	0.70
12:AR:90:ALA:HA	12:AR:91:LEU:HD12	1.74	0.70
13:AP:52:LYS:CA	13:AP:54:HIS:CD2	2.74	0.70
15:AB:113:MET:HE1	15:AB:211:PHE:HE2	0.69	0.70
23:AD:193:ASP:CA	23:AD:202:LYS:O	2.37	0.70
28:AC:65:LYS:CE	28:AC:266:TYR:CE1	2.67	0.70
34:AQ:138:ARG:HG3	36:B2:1649:U:H4'	1.74	0.70
39:Cq:61:MET:SD	39:Cq:82:ILE:CD1	2.80	0.70
39:Cq:242:ILE:HG12	83:Ct:63:VAL:CG2	2.20	0.70
39:Cq:251:LEU:HD23	84:Cv:54:VAL:HG11	1.74	0.70
41:CO:190:ASP:HB3	41:CO:193:THR:OG1	1.90	0.70
44:CM:24:LEU:CD1	44:CM:86:TRP:CD1	2.70	0.70
47:CI:109:ASP:HA	47:CI:112:GLN:CG	2.21	0.70
49:CQ:28:LEU:HD13	49:CQ:51:LEU:HD13	1.72	0.70
52:CS:16:CYS:O	52:CS:17:LEU:O	2.10	0.70
52:CS:101:THR:HG23	52:CS:104:GLY:H	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:153:PRO:O	52:CS:153:PRO:CG	2.29	0.70
53:CT:30:TYR:HH	53:CT:94:GLU:CG	2.05	0.70
56:CX:119:ILE:CD1	56:CX:120:ASP:H	2.05	0.70
58:CW:14:TYR:OH	63:CB:380:GLN:CG	2.40	0.70
61:Ch:79:LYS:HB3	61:Ch:80:PRO:HD2	1.74	0.70
63:CB:170:LEU:C	63:CB:171:LEU:HD23	2.17	0.70
65:Cc:58:SER:HB2	69:Cg:96:LEU:HD13	1.73	0.70
66:Cd:116:ASN:C	66:Cd:117:LEU:HD22	2.16	0.70
67:Ce:15:LYS:O	67:Ce:16:ARG:CB	2.31	0.70
69:Cg:84:ALA:HA	69:Cg:87:VAL:CB	2.22	0.70
78:Co:73:VAL:HG12	78:Co:74:GLU:CG	2.22	0.70
80:CH:120:GLU:HG3	80:CH:124:ARG:NH2	2.07	0.70
82:CG:22:GLN:O	82:CG:25:LYS:N	2.25	0.70
82:CG:157:ILE:HD11	82:CG:170:LEU:HB3	1.74	0.70
84:Cv:17:SER:O	84:Cv:18:PRO:C	2.33	0.70
1:Az:16:LYS:HD3	1:Az:466:CYS:O	1.92	0.70
1:Az:74:ALA:O	1:Az:75:ILE:CD1	2.37	0.70
1:Az:330:LYS:HB2	1:Az:330:LYS:NZ	2.06	0.70
2:Ag:240:CYS:HG	2:Ag:291:TRP:CD1	2.09	0.70
3:AU:40:ILE:HD11	3:AU:53:PRO:HB3	1.74	0.70
3:AU:49:LYS:C	3:AU:50:VAL:HG12	2.16	0.70
4:AK:39:ASN:O	4:AK:40:VAL:HB	1.91	0.70
5:AO:51:GLU:OE2	15:AB:28:LYS:HD3	1.91	0.70
10:AN:54:LEU:HB3	10:AN:60:VAL:CG2	2.20	0.70
14:AT:21:PHE:CD1	14:AT:21:PHE:C	2.70	0.70
16:AA:180:ARG:CD	16:AA:184:ARG:NH2	2.53	0.70
18:AY:29:HIS:NE2	18:AY:69:THR:HG23	2.06	0.70
23:AD:132:LYS:HB2	23:AD:191:PRO:HG3	0.70	0.70
24:Ae:1:LYS:C	24:Ae:2:VAL:CG2	2.64	0.70
27:AE:98:ASN:HD22	27:AE:119:ALA:HB2	1.47	0.70
31:AH:16:PRO:O	31:AH:20:GLU:CD	2.35	0.70
40:CK:116:MET:CB	40:CK:117:ARG:HH21	2.02	0.70
43:CV:83:ARG:CD	43:CV:120:PRO:O	2.39	0.70
43:CV:91:LYS:HZ3	63:CB:67:VAL:HG21	1.57	0.70
47:CI:10:ARG:HH22	47:CI:56:GLU:CD	1.99	0.70
47:CI:16:PRO:CD	47:CI:128:ARG:HH12	2.05	0.70
52:CS:140:PRO:CD	52:CS:141:ALA:N	2.48	0.70
53:CT:135:PRO:CB	64:CF:86:GLU:HB2	2.22	0.70
57:CY:27:ARG:HH22	57:CY:28:LYS:NZ	1.90	0.70
58:CW:90:ILE:HB	58:CW:91:MET:HE1	1.73	0.70
59:CZ:17:ARG:HA	69:Cg:76:ARG:CA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:61:ASP:CG	63:CB:61:ASP:O	2.34	0.70
63:CB:112:ASP:O	63:CB:115:LYS:N	2.25	0.70
63:CB:234:ARG:NH1	63:CB:270:GLY:C	2.49	0.70
64:CF:51:TYR:CZ	81:CE:58:SER:OG	2.45	0.70
71:Cj:83:THR:CB	71:Cj:84:PRO:HD2	2.13	0.70
74:CC:47:ASN:O	74:CC:49:ARG:N	2.25	0.70
79:CJ:57:VAL:CG1	79:CJ:60:PHE:HD2	2.02	0.70
81:CE:281:ILE:O	81:CE:281:ILE:HG23	1.92	0.70
1:Az:497:MET:HA	1:Az:499:PHE:CE1	2.27	0.69
4:AK:16:PHE:HD2	4:AK:79:LEU:CB	1.86	0.69
4:AK:21:MET:SD	4:AK:49:MET:SD	2.90	0.69
6:AX:95:GLU:O	6:AX:98:ASP:HB2	1.92	0.69
13:AP:31:GLU:O	13:AP:35:GLN:HG3	1.92	0.69
13:AP:32:GLN:HA	13:AP:35:GLN:OE1	1.92	0.69
15:AB:93:GLY:C	15:AB:94:LYS:CD	2.65	0.69
16:AA:28:THR:HG22	16:AA:46:ILE:HD13	1.72	0.69
18:AY:52:PRO:CD	18:AY:53:ASP:H	2.05	0.69
22:Ac:59:LEU:HD11	30:AF:123:GLU:HG3	1.74	0.69
26:AJ:16:PRO:O	26:AJ:17:ARG:C	2.33	0.69
29:AG:210:ALA:C	29:AG:213:LEU:HG	2.15	0.69
31:AH:106:ARG:CD	36:B2:861:A:C5	2.75	0.69
33:AI:25:ARG:NE	33:AI:27:TYR:CE2	2.57	0.69
38:Cz:23:ARG:NH2	38:Cz:206:ILE:HG23	2.07	0.69
38:Cz:49:PHE:CE2	38:Cz:165:LEU:HD22	2.26	0.69
39:Cq:276:VAL:O	39:Cq:280:PRO:CG	2.40	0.69
46:CN:28:TRP:HZ3	82:CG:67:ARG:CZ	1.93	0.69
46:CN:38:ARG:CG	46:CN:62:TYR:CE2	2.70	0.69
48:CD:22:ARG:HH21	86:A7:6:C:H3'	1.56	0.69
48:CD:44:TYR:HE1	53:CT:34:TYR:C	1.94	0.69
48:CD:76:CYS:SG	48:CD:109:LEU:CB	2.80	0.69
49:CQ:19:LYS:O	49:CQ:20:SER:CB	2.33	0.69
49:CQ:61:LEU:CD2	49:CQ:140:SER:O	2.40	0.69
49:CQ:62:SER:CB	49:CQ:89:ASP:OD2	2.39	0.69
61:Ch:77:LYS:O	61:Ch:79:LYS:N	2.25	0.69
63:CB:126:LYS:C	63:CB:127:LYS:CG	2.64	0.69
63:CB:159:VAL:HG11	63:CB:184:GLN:CD	2.16	0.69
64:CF:88:LYS:HB3	64:CF:197:VAL:HG21	1.73	0.69
70:Ci:22:SER:C	70:Ci:23:LYS:HG3	2.17	0.69
74:CC:7:LEU:O	74:CC:8:ILE:HG12	1.92	0.69
80:CH:110:SER:HG	80:CH:128:MET:N	1.87	0.69
1:Az:72:SER:CA	1:Az:104:ASP:HB3	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:609:PHE:CZ	1:Az:661:ILE:CD1	2.68	0.69
1:Az:763:LEU:HD11	1:Az:786:ALA:HB1	1.72	0.69
1:Az:813:VAL:HG13	1:Az:814:PHE:N	2.07	0.69
2:Ag:17:TRP:CE3	2:Ag:36:ARG:NH2	2.60	0.69
2:Ag:282:GLU:CG	2:Ag:283:PRO:HD3	2.07	0.69
4:AK:40:VAL:HG23	4:AK:44:HIS:N	2.07	0.69
6:AX:2:GLY:O	6:AX:3:LYS:CB	2.35	0.69
8:AS:15:VAL:HG13	8:AS:68:ILE:HD11	1.73	0.69
12:AR:98:VAL:HG12	12:AR:100:PRO:N	2.07	0.69
13:AP:128:HIS:CD2	36:B2:1522:A:O5'	2.46	0.69
15:AB:57:ILE:C	82:CG:264:LYS:HE3	2.16	0.69
15:AB:66:VAL:HG21	15:AB:87:ILE:CG2	2.02	0.69
18:AY:114:MET:HE3	18:AY:125:VAL:N	2.06	0.69
21:Ab:12:PRO:HA	21:Ab:16:LYS:HE2	1.74	0.69
22:Ac:5:ARG:O	22:Ac:6:VAL:CG2	2.37	0.69
26:AJ:48:PHE:HZ	26:AJ:52:LYS:HZ2	1.39	0.69
26:AJ:61:LEU:CD1	26:AJ:94:LEU:HD13	2.22	0.69
26:AJ:134:HIS:C	26:AJ:135:ILE:HG23	2.17	0.69
31:AH:40:LEU:HD23	31:AH:43:LEU:CG	2.21	0.69
31:AH:135:PHE:HB3	31:AH:136:PRO:CD	2.23	0.69
32:AW:106:THR:OG1	32:AW:111:MET:HE2	1.92	0.69
33:AI:140:LYS:CG	33:AI:141:ARG:N	2.37	0.69
33:AI:144:LYS:O	33:AI:145:ILE:HG23	1.91	0.69
39:Cq:111:ALA:HB1	39:Cq:183:PHE:CG	2.27	0.69
41:CO:16:LEU:CD2	41:CO:41:ILE:HG12	2.21	0.69
42:CL:6:ASN:ND2	45:Ca:48:TYR:CE1	2.58	0.69
42:CL:127:PHE:CE2	42:CL:144:LEU:CD2	2.75	0.69
45:Ca:40:HIS:CD2	45:Ca:41:HIS:NE2	2.61	0.69
46:CN:183:THR:HG22	46:CN:188:ARG:CB	2.22	0.69
55:CU:60:VAL:HG12	55:CU:61:VAL:HG13	1.73	0.69
57:CY:3:PHE:CE1	74:CC:222:ARG:NE	2.59	0.69
60:Cr:26:SER:CB	60:Cr:34:ALA:O	2.40	0.69
63:CB:108:GLU:CG	63:CB:137:TRP:NE1	2.28	0.69
63:CB:139:ASP:O	63:CB:140:GLU:C	2.33	0.69
65:Cc:28:VAL:O	65:Cc:94:LEU:CD1	2.37	0.69
66:Cd:73:TRP:CZ3	66:Cd:77:ILE:HG12	2.27	0.69
66:Cd:89:SER:OG	66:Cd:105:LEU:HG	1.92	0.69
77:Cp:48:LYS:HD2	77:Cp:49:ARG:O	1.92	0.69
77:Cp:52:VAL:CG1	77:Cp:68:ALA:HA	2.23	0.69
81:CE:51:VAL:HG12	81:CE:52:ARG:CA	2.20	0.69
81:CE:111:LYS:CB	81:CE:113:PRO:CG	2.70	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:255:LYS:HD3	82:CG:255:LYS:O	1.92	0.69
85:A5:4127:A:H1'	85:A5:4128:A:OP1	1.92	0.69
1:Az:75:ILE:CG2	1:Az:77:LEU:HD11	1.96	0.69
1:Az:178:PHE:O	1:Az:182:VAL:HG23	1.91	0.69
1:Az:394:LEU:HD23	1:Az:485:ILE:HG22	1.73	0.69
2:Ag:88:ARG:CD	2:Ag:90:TRP:CZ2	2.75	0.69
3:AU:59:LYS:HB2	3:AU:84:ILE:HG23	1.70	0.69
4:AK:18:GLU:C	4:AK:92:ALA:HB2	2.17	0.69
5:AO:117:ARG:O	5:AO:121:ARG:HB2	1.92	0.69
5:AO:128:ARG:CA	20:Aa:62:TYR:OH	2.40	0.69
6:AX:133:LEU:HD21	6:AX:139:GLU:O	1.91	0.69
8:AS:120:HIS:HB2	13:AP:121:ILE:HG22	1.75	0.69
12:AR:67:ARG:HH11	36:B2:1375:G:H5'	1.58	0.69
13:AP:108:LYS:N	13:AP:111:MET:HE3	1.99	0.69
16:AA:57:LYS:HZ3	17:AV:70:LEU:CG	2.05	0.69
16:AA:125:THR:HG22	16:AA:175:TRP:NE1	2.05	0.69
18:AY:18:LEU:HB3	18:AY:20:ARG:CZ	2.21	0.69
24:Ae:31:ARG:CG	26:AJ:38:ARG:HA	2.22	0.69
24:Ae:45:VAL:O	24:Ae:47:PRO:HG2	1.92	0.69
26:AJ:169:ARG:CB	26:AJ:170:PRO:CD	2.44	0.69
27:AE:98:ASN:CG	27:AE:119:ALA:HB2	2.15	0.69
29:AG:57:ASP:OD2	29:AG:98:ARG:HG2	1.91	0.69
30:AF:28:VAL:HG13	30:AF:110:GLN:CG	2.22	0.69
30:AF:41:VAL:CG2	30:AF:42:LYS:HD2	2.22	0.69
30:AF:122:ARG:NH2	30:AF:193:LYS:NZ	2.39	0.69
30:AF:141:VAL:CG2	30:AF:146:ARG:HG2	2.22	0.69
31:AH:6:ALA:HB1	31:AH:10:LYS:NZ	2.07	0.69
31:AH:157:HIS:NE2	31:AH:188:GLU:OE1	2.23	0.69
39:Cq:78:LEU:HD21	39:Cq:193:PHE:HB2	1.75	0.69
39:Cq:198:ILE:N	83:Cs:42:PHE:CZ	2.59	0.69
39:Cq:269:LEU:O	39:Cq:272:PRO:CD	2.40	0.69
39:Cq:277:ALA:O	39:Cq:280:PRO:CD	2.39	0.69
41:CO:27:VAL:CG1	41:CO:98:ALA:CB	2.61	0.69
47:CI:92:HIS:HB3	47:CI:94:PHE:CZ	2.26	0.69
49:CQ:187:LYS:CG	49:CQ:188:ASN:H	2.05	0.69
54:CP:75:GLN:C	54:CP:76:TRP:HE3	2.00	0.69
59:CZ:15:ALA:CA	59:CZ:19:SER:CB	2.71	0.69
59:CZ:52:LYS:O	59:CZ:52:LYS:HG3	1.82	0.69
69:Cg:75:SER:O	69:Cg:76:ARG:O	2.10	0.69
71:Cj:88:ARG:HH11	71:Cj:88:ARG:CB	2.04	0.69
72:Ck:31:ASN:O	72:Ck:32:VAL:O	2.10	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:14:LYS:HB3	74:CC:16:GLU:OE2	1.91	0.69
80:CH:134:CYS:SG	80:CH:146:LEU:HD21	2.32	0.69
81:CE:95:PRO:C	81:CE:96:VAL:HG23	2.17	0.69
81:CE:149:ILE:HD12	81:CE:271:LEU:CD2	2.22	0.69
82:CG:35:ARG:C	82:CG:36:PRO:CA	2.64	0.69
1:Az:394:LEU:H	1:Az:487:THR:CG2	2.04	0.69
1:Az:481:LYS:HE2	1:Az:532:PRO:HB3	0.70	0.69
2:Ag:286:CYS:CB	2:Ag:302:TYR:CE2	2.70	0.69
3:Au:47:ASN:N	3:Au:47:ASN:HD22	1.88	0.69
7:AM:12:MET:CE	7:AM:17:ALA:O	2.40	0.69
11:AL:112:HIS:CD2	11:AL:134:LEU:HD11	2.27	0.69
12:AR:91:LEU:N	12:AR:92:ASP:HA	2.02	0.69
12:AR:102:THR:HA	12:AR:105:MET:HB2	1.74	0.69
17:AV:79:VAL:CG1	17:AV:80:SER:N	2.54	0.69
18:AY:64:PHE:HE2	26:AJ:140:GLN:NE2	1.91	0.69
26:AJ:179:LYS:HA	26:AJ:182:GLN:OE1	1.92	0.69
27:AE:18:TRP:CE3	27:AE:46:ILE:CD1	2.75	0.69
31:AH:145:ARG:CD	32:AW:51:GLU:OE1	2.40	0.69
32:AW:42:MET:HE3	32:AW:50:PHE:CE2	2.27	0.69
33:AI:4:SER:O	33:AI:5:ARG:C	2.32	0.69
38:Cz:100:VAL:C	38:Cz:102:LYS:N	2.51	0.69
38:Cz:110:PHE:CE2	38:Cz:128:LEU:HD22	2.27	0.69
40:CK:48:LYS:C	40:CK:52:ASP:CG	2.54	0.69
40:CK:123:ARG:HD2	40:CK:129:ILE:HD11	0.79	0.69
47:CI:109:ASP:OD2	47:CI:112:GLN:HG2	1.91	0.69
47:CI:109:ASP:N	47:CI:112:GLN:HE21	1.90	0.69
48:CD:76:CYS:SG	48:CD:109:LEU:HG	2.32	0.69
48:CD:146:LEU:CD1	48:CD:163:LEU:CD2	2.27	0.69
50:CR:96:MET:CE	85:A5:2667:C:H5'	2.21	0.69
52:CS:98:ARG:HD3	52:CS:145:PHE:CG	2.26	0.69
55:CU:60:VAL:N	55:CU:75:GLU:HG3	2.08	0.69
56:CX:40:ILE:HG13	82:CG:52:THR:HG23	1.73	0.69
58:CW:2:LYS:HZ3	58:CW:2:LYS:CB	1.94	0.69
63:CB:41:VAL:HA	63:CB:187:GLY:CA	2.18	0.69
74:CC:300:ARG:CD	74:CC:300:ARG:C	2.65	0.69
81:CE:108:LYS:HA	81:CE:108:LYS:HE3	0.76	0.69
86:A7:49:A:O2'	86:A7:50:A:H5'	1.93	0.69
1:Az:10:ARG:HH22	1:Az:465:PRO:CD	2.01	0.69
1:Az:616:ASP:HA	1:Az:621:GLU:OE1	1.92	0.69
1:Az:744:ILE:CG2	1:Az:816:HIS:NE2	2.56	0.69
1:Az:752:PRO:CD	1:Az:755:VAL:CG2	2.67	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:848:ILE:HG23	1:Az:849:PRO:N	2.06	0.69
3:AU:50:VAL:CG2	3:AU:51:LYS:O	2.38	0.69
4:AK:32:HIS:ND1	4:AK:33:PRO:HD2	2.07	0.69
5:AO:30:VAL:CG2	5:AO:32:HIS:NE2	2.55	0.69
6:AX:105:PHE:CZ	6:AX:118:VAL:O	2.46	0.69
7:AM:14:VAL:C	7:AM:16:THR:N	2.49	0.69
7:AM:18:LEU:HD22	7:AM:22:LEU:CG	2.22	0.69
7:AM:19:GLN:HG2	7:AM:88:TRP:CD1	2.27	0.69
7:AM:50:CYS:SG	7:AM:69:LEU:HD11	2.32	0.69
7:AM:67:ALA:HB1	25:Af:108:VAL:CG2	2.22	0.69
11:AL:82:MET:HB2	11:AL:85:THR:HG23	1.74	0.69
12:AR:85:VAL:HG21	16:AA:201:LEU:CG	2.16	0.69
13:AP:67:ALA:CB	13:AP:73:PRO:HB3	2.23	0.69
13:AP:98:ASN:O	13:AP:122:THR:OG1	2.10	0.69
19:AZ:48:VAL:C	19:AZ:83:LEU:HD11	2.06	0.69
23:AD:103:GLU:OE2	23:AD:103:GLU:HA	1.91	0.69
23:AD:148:LYS:NZ	35:Ah:177:ARG:HH11	1.91	0.69
23:AD:193:ASP:O	23:AD:194:PRO:C	2.28	0.69
25:Af:97:LYS:CB	25:Af:97:LYS:HZ3	2.02	0.69
27:AE:129:ILE:CB	27:AE:139:LEU:HD23	2.22	0.69
27:AE:159:THR:CG2	27:AE:227:VAL:HG22	2.04	0.69
27:AE:180:LEU:HD13	27:AE:228:ILE:HG13	1.74	0.69
29:AG:214:ALA:HA	29:AG:217:MET:HG3	1.74	0.69
34:AQ:112:LEU:O	34:AQ:116:ASP:CA	2.40	0.69
38:Cz:29:LEU:HD11	38:Cz:171:HIS:HB3	1.73	0.69
38:Cz:36:ILE:CD1	38:Cz:201:VAL:HG22	2.22	0.69
38:Cz:41:TYR:CB	38:Cz:163:LEU:HD21	2.08	0.69
38:Cz:55:LEU:HB2	38:Cz:153:SER:OG	1.92	0.69
39:Cq:271:ASP:O	39:Cq:275:PHE:CE2	2.46	0.69
41:CO:195:VAL:CG2	44:CM:118:MET:HG2	2.17	0.69
42:CL:130:LYS:HB2	42:CL:131:PRO:HD2	1.73	0.69
44:CM:63:LYS:CE	44:CM:64:PHE:N	2.48	0.69
47:CI:106:ALA:CB	47:CI:108:ALA:HB1	2.04	0.69
48:CD:64:ILE:HD11	48:CD:105:LEU:HG	1.73	0.69
48:CD:142:PHE:CD2	48:CD:171:LEU:HD22	2.27	0.69
49:CQ:38:ARG:HB3	74:CC:302:LEU:HD23	1.74	0.69
51:CA:218:HIS:O	51:CA:219:ILE:O	2.09	0.69
51:CA:242:ARG:HH12	51:CA:247:ARG:HH21	0.70	0.69
52:CS:168:THR:HG23	52:CS:170:LYS:H	1.57	0.69
53:CT:25:VAL:HG13	53:CT:26:PRO:HD3	1.73	0.69
54:CP:2:VAL:CG1	54:CP:3:ARG:N	2.30	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:14:TYR:HB3	58:CW:15:PRO:CD	2.23	0.69
59:CZ:26:VAL:HG21	59:CZ:96:VAL:HG11	1.73	0.69
60:Cr:73:PRO:HB2	60:Cr:79:ARG:HG3	1.74	0.69
63:CB:47:LEU:HD21	63:CB:179:HIS:HB2	1.75	0.69
66:Cd:16:ALA:O	66:Cd:17:ILE:CB	2.39	0.69
66:Cd:93:ASN:HB3	66:Cd:101:LYS:O	1.89	0.69
69:Cg:37:LYS:CE	69:Cg:60:ARG:HH12	2.05	0.69
74:CC:54:VAL:HG21	74:CC:101:MET:HE2	1.74	0.69
77:Cp:50:ARG:CD	77:Cp:50:ARG:O	2.40	0.69
79:CJ:12:MET:HE1	86:A7:54:A:C5	2.28	0.69
80:CH:130:PRO:HD2	80:CH:130:PRO:O	1.91	0.69
81:CE:139:LYS:HD3	81:CE:140:LEU:H	1.56	0.69
81:CE:181:LEU:CD1	81:CE:261:ILE:HD12	2.22	0.69
81:CE:195:ILE:CG2	81:CE:288:PHE:CE2	2.76	0.69
81:CE:205:ASN:HD22	81:CE:205:ASN:N	1.87	0.69
83:Cs:32:ILE:HG23	83:Cs:37:VAL:CB	2.21	0.69
83:Ct:41:PRO:HA	83:Ct:44:PRO:CG	2.22	0.69
1:Az:393:PRO:CG	1:Az:393:PRO:O	2.40	0.69
5:AO:128:ARG:C	5:AO:129:ILE:HG12	2.17	0.69
7:AM:13:ASP:O	7:AM:16:THR:CA	2.41	0.69
12:AR:21:TYR:CB	12:AR:71:ILE:HG21	2.23	0.69
12:AR:24:LEU:CD1	12:AR:58:MET:HE3	2.22	0.69
12:AR:93:GLN:HG2	12:AR:94:GLU:O	1.92	0.69
12:AR:105:MET:HE1	16:AA:50:ASN:ND2	2.07	0.69
17:AV:67:ASP:O	17:AV:68:SER:C	2.35	0.69
19:AZ:44:LEU:O	19:AZ:44:LEU:HD12	1.91	0.69
19:AZ:65:TYR:HD2	19:AZ:68:ILE:HG12	1.55	0.69
23:AD:197:LYS:CB	23:AD:198:ILE:HG12	2.11	0.69
27:AE:55:ALA:C	27:AE:56:LEU:HD23	2.17	0.69
28:AC:259:THR:HG22	28:AC:261:PHE:CG	2.26	0.69
30:AF:14:THR:HG23	30:AF:15:PRO:HD3	1.73	0.69
33:AI:141:ARG:HD3	33:AI:144:LYS:HB3	1.62	0.69
34:AQ:43:GLU:HG2	34:AQ:45:ARG:HB3	1.75	0.69
35:Ah:155:ARG:C	35:Ah:159:ASP:OD1	2.36	0.69
38:Cz:26:ARG:CD	38:Cz:210:MET:CG	2.69	0.69
38:Cz:87:ILE:CD1	38:Cz:119:GLN:HG2	2.23	0.69
39:Cq:36:GLY:O	39:Cq:39:GLN:N	2.26	0.69
39:Cq:134:LYS:C	39:Cq:136:SER:N	2.51	0.69
39:Cq:262:ALA:O	39:Cq:264:LYS:CE	2.30	0.69
48:CD:223:PHE:CD1	48:CD:226:TYR:CZ	2.69	0.69
48:CD:255:LYS:HG3	48:CD:255:LYS:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:99:MET:CE	50:CR:127:VAL:CG1	2.63	0.69
51:CA:137:ILE:O	51:CA:137:ILE:CG2	2.41	0.69
52:CS:45:TRP:CE2	52:CS:56:LYS:HA	2.26	0.69
56:CX:52:LEU:HD11	56:CX:54:LEU:CA	2.22	0.69
59:CZ:11:VAL:HG22	59:CZ:82:PRO:HA	1.74	0.69
59:CZ:76:ASN:HD21	59:CZ:78:ASN:HD22	1.41	0.69
59:CZ:92:ASP:N	59:CZ:117:LYS:HZ3	1.90	0.69
59:CZ:105:ALA:C	59:CZ:108:ARG:HG3	2.17	0.69
60:Cr:91:SER:HB3	81:CE:109:LEU:O	1.92	0.69
66:Cd:29:ILE:HG22	66:Cd:33:ILE:CD1	2.04	0.69
70:Cl:68:ARG:O	70:Cl:72:PHE:CD2	2.44	0.69
74:CC:146:GLU:CD	74:CC:175:LYS:HE3	2.17	0.69
74:CC:292:ILE:O	74:CC:298:ILE:CD1	2.33	0.69
74:CC:348:LYS:O	74:CC:349:LEU:CA	2.27	0.69
75:Cm:111:ARG:HG2	75:Cm:111:ARG:NH2	2.06	0.69
77:Cp:85:ARG:NH2	77:Cp:86:LEU:HD21	2.05	0.69
82:CG:34:LYS:O	82:CG:34:LYS:HE2	1.91	0.69
83:Ct:21:VAL:CG1	83:Ct:27:LYS:CE	2.70	0.69
85:A5:2551:A:H2'	85:A5:2552:G:H5'	1.74	0.69
1:Az:325:SER:C	1:Az:327:ASP:N	2.45	0.69
1:Az:752:PRO:HB2	1:Az:754:GLN:CD	2.17	0.69
2:Ag:149:GLU:OE2	2:Ag:149:GLU:HA	1.85	0.69
2:Ag:240:CYS:HG	2:Ag:291:TRP:HD1	1.39	0.69
6:AX:11:ARG:CZ	11:AL:103:GLU:CD	2.66	0.69
8:AS:7:GLU:CA	8:AS:7:GLU:OE2	2.39	0.69
8:AS:58:GLU:O	8:AS:59:LEU:CB	2.40	0.69
13:AP:13:ARG:C	13:AP:14:LYS:HG2	2.16	0.69
14:AT:77:LYS:HG2	14:AT:92:PHE:CZ	2.24	0.69
26:AJ:48:PHE:HZ	26:AJ:52:LYS:HZ1	1.20	0.69
27:AE:180:LEU:HD13	27:AE:228:ILE:CD1	2.22	0.69
28:AC:227:ARG:HD2	28:AC:228:GLY:CA	2.22	0.69
38:Cz:143:ASN:HD22	38:Cz:146:ALA:HB3	1.55	0.69
39:Cq:168:GLY:O	39:Cq:171:GLU:CG	2.31	0.69
39:Cq:245:TYR:CD1	83:Ct:60:ILE:CD1	2.74	0.69
43:CV:82:ILE:HD12	43:CV:104:VAL:HG13	1.74	0.69
44:CM:47:ARG:CZ	52:CS:73:LEU:CD1	2.70	0.69
46:CN:77:LYS:O	46:CN:77:LYS:CD	2.30	0.69
48:CD:268:ARG:HH11	48:CD:268:ARG:HG3	0.64	0.69
56:CX:76:ILE:O	56:CX:76:ILE:CD1	2.39	0.69
60:Cr:66:ARG:O	60:Cr:80:THR:C	2.36	0.69
63:CB:360:LEU:O	63:CB:361:GLU:C	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:83:THR:C	65:Cc:86:GLY:H	2.00	0.69
67:Ce:14:LYS:HB3	67:Ce:16:ARG:O	1.91	0.69
69:Cg:23:SER:O	69:Cg:30:ILE:HA	1.92	0.69
74:CC:39:PHE:HD1	74:CC:40:VAL:N	1.89	0.69
74:CC:147:VAL:HG11	74:CC:152:LEU:HD22	0.73	0.69
81:CE:261:ILE:HA	81:CE:267:LEU:HD23	1.73	0.69
82:CG:117:ARG:CG	82:CG:130:THR:CG2	2.67	0.69
83:Cs:17:HIS:ND1	83:Cs:56:ILE:CD1	2.55	0.69
85:A5:4881:U:H5''	85:A5:4882:U:C6	2.27	0.69
87:A8:19:C:H2'	87:A8:20:A:C8	2.28	0.69
1:Az:49:ALA:N	1:Az:55:ARG:NH2	2.40	0.69
1:Az:126:LEU:HD21	1:Az:156:MET:SD	2.32	0.69
1:Az:228:PHE:CD2	1:Az:293:ILE:HG12	2.28	0.69
1:Az:592:LEU:HB2	1:Az:603:TYR:CD1	2.28	0.69
1:Az:694:GLU:CG	1:Az:844:LEU:HD11	2.11	0.69
1:Az:804:THR:HG21	1:Az:808:ALA:CB	2.23	0.69
2:Ag:26:GLN:CB	2:Ag:74:ASP:HA	2.23	0.69
2:Ag:118:ARG:NH2	2:Ag:134:THR:CB	2.56	0.69
2:Ag:232:GLY:CA	2:Ag:257:LYS:NZ	2.56	0.69
4:AK:9:ILE:O	4:AK:13:GLU:HG2	1.93	0.69
4:AK:59:LYS:HD2	4:AK:60:GLU:H	1.58	0.69
6:AX:66:ILE:HD13	24:Ae:5:SER:O	1.92	0.69
6:AX:99:GLU:C	6:AX:100:VAL:HG13	2.18	0.69
7:AM:12:MET:HE1	7:AM:17:ALA:O	1.92	0.69
8:AS:8:LYS:HD3	8:AS:8:LYS:N	2.07	0.69
8:AS:92:ASP:HA	13:AP:19:GLY:N	2.07	0.69
9:Ad:13:LYS:CE	9:Ad:14:PHE:CD2	2.75	0.69
10:AN:114:ARG:HG2	10:AN:114:ARG:HH21	1.57	0.69
11:AL:18:GLN:HE21	11:AL:20:LYS:HD2	1.58	0.69
11:AL:97:ARG:HG2	11:AL:98:LYS:N	2.06	0.69
13:AP:124:LYS:O	13:AP:125:PRO:C	2.35	0.69
14:AT:42:HIS:CE1	14:AT:93:SER:CB	2.76	0.69
14:AT:77:LYS:CA	14:AT:94:ARG:CG	2.68	0.69
15:AB:61:GLY:O	15:AB:65:ARG:CZ	2.41	0.69
15:AB:209:ASP:O	15:AB:210:VAL:CB	2.39	0.69
16:AA:149:ASN:HB2	16:AA:165:ASN:CG	2.18	0.69
16:AA:158:ASP:HB3	17:AV:65:SER:OG	1.91	0.69
16:AA:172:GLY:HA3	16:AA:203:PHE:CD1	2.28	0.69
18:AY:21:LYS:HE2	18:AY:77:ASP:CG	2.17	0.69
19:AZ:70:PRO:CD	19:AZ:71:ALA:N	2.55	0.69
22:Ac:49:PRO:HB2	30:AF:144:LEU:CD2	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ac:68:LEU:HB2	30:AF:128:ILE:HD11	1.74	0.69
23:AD:123:LEU:HD21	23:AD:154:ASP:HB2	1.72	0.69
24:Ae:28:LYS:HG3	24:Ae:33:LYS:HB2	1.74	0.69
26:AJ:110:LEU:HD12	26:AJ:130:ILE:HG12	1.55	0.69
27:AE:139:LEU:HD11	27:AE:154:ILE:CG2	2.23	0.69
28:AC:164:PRO:O	28:AC:164:PRO:HG2	1.92	0.69
28:AC:256:TRP:CE2	32:AW:68:ARG:HD2	2.28	0.69
29:AG:63:MET:HE1	29:AG:106:LEU:HD13	1.68	0.69
29:AG:147:LEU:HD21	29:AG:156:TYR:HE2	1.57	0.69
31:AH:12:ASN:HB3	31:AH:46:THR:OG1	1.92	0.69
32:AW:7:LEU:HD23	32:AW:34:ILE:HG13	1.75	0.69
33:AI:103:LEU:CD2	33:AI:172:LEU:HD13	2.22	0.69
35:Ah:152:SER:OG	35:Ah:155:ARG:CD	2.39	0.69
35:Ah:160:ARG:N	35:Ah:161:PRO:HD3	2.07	0.69
35:Ah:180:GLY:HA2	35:Ah:183:ASP:OD1	1.93	0.69
35:Ah:291:ASP:HA	35:Ah:294:LYS:CG	2.22	0.69
35:Ah:291:ASP:HA	35:Ah:294:LYS:HD2	1.71	0.69
36:B2:191:A:C2'	36:B2:192:C:OP1	2.40	0.69
36:B2:845:G:H2'	36:B2:846:G:C8	2.26	0.69
36:B2:1518:C:OP2	36:B2:1519:U:H2'	1.92	0.69
36:B2:1597:C:C4'	36:B2:1603:G:O6	2.33	0.69
39:Cq:36:GLY:O	39:Cq:37:SER:C	2.33	0.69
39:Cq:45:MET:HE1	39:Cq:48:ARG:CG	2.22	0.69
39:Cq:125:ALA:O	39:Cq:126:GLN:HB2	1.91	0.69
39:Cq:127:ASN:HA	39:Cq:153:GLU:HG2	1.73	0.69
39:Cq:257:TYR:HA	84:Cv:45:GLU:OE1	1.91	0.69
40:CK:10:ILE:CG2	40:CK:66:ASN:C	2.54	0.69
41:CO:190:ASP:CG	41:CO:194:GLU:N	2.50	0.69
42:CL:126:LEU:CD2	61:Ch:117:ARG:NH1	2.55	0.69
42:CL:140:SER:O	42:CL:146:LEU:CD1	2.33	0.69
44:CM:90:ARG:O	44:CM:94:LYS:HG3	1.93	0.69
46:CN:71:ARG:HH12	46:CN:74:PRO:HD3	1.56	0.69
46:CN:116:LEU:HA	46:CN:159:ARG:NH2	2.08	0.69
46:CN:146:PRO:CG	61:Ch:104:THR:HG22	2.22	0.69
47:CI:72:ALA:CB	47:CI:87:MET:HE1	2.22	0.69
48:CD:119:TYR:CE1	48:CD:135:ILE:HG13	2.27	0.69
48:CD:216:GLU:CD	48:CD:216:GLU:O	2.35	0.69
48:CD:271:MET:HE1	48:CD:275:GLN:CG	2.23	0.69
49:CQ:143:ARG:O	49:CQ:145:GLY:N	2.22	0.69
50:CR:133:LYS:HG3	50:CR:137:ILE:CG2	2.19	0.69
51:CA:23:ARG:C	51:CA:24:LYS:HE3	2.12	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:189:TYR:HA	51:CA:192:LYS:HG3	1.75	0.69
52:CS:90:THR:HG22	53:CT:156:TYR:CE1	2.27	0.69
53:CT:135:PRO:HG2	53:CT:136:ARG:N	1.97	0.69
53:CT:146:LYS:HB3	53:CT:146:LYS:HZ2	1.54	0.69
53:CT:148:PRO:O	53:CT:148:PRO:HG2	1.91	0.69
55:CU:125:GLU:CA	55:CU:125:GLU:OE1	2.40	0.69
57:CY:44:VAL:HG21	57:CY:119:LEU:HD11	1.70	0.69
58:CW:77:LYS:O	58:CW:78:PHE:CD1	2.46	0.69
59:CZ:33:THR:C	59:CZ:35:ASP:H	2.00	0.69
60:Cr:50:GLY:HA3	60:Cr:64:ILE:CG2	2.22	0.69
60:Cr:77:TYR:HD2	60:Cr:79:ARG:HA	1.53	0.69
63:CB:62:ARG:O	63:CB:68:ASN:HB2	1.93	0.69
63:CB:116:ARG:HH11	63:CB:122:TRP:CB	2.00	0.69
63:CB:173:LEU:HD13	63:CB:342:LYS:CE	2.16	0.69
64:CF:160:GLY:HA3	64:CF:207:PHE:CZ	2.28	0.69
64:CF:188:GLU:OE1	74:CC:329:ASN:CG	2.36	0.69
64:CF:213:LEU:HD11	64:CF:244:ILE:HD11	1.75	0.69
67:Ce:22:ARG:CZ	67:Ce:31:ILE:HG23	2.22	0.69
70:Ci:9:VAL:HG22	70:Ci:10:GLY:H	1.57	0.69
70:Ci:25:ARG:CB	70:Ci:28:ARG:CZ	2.71	0.69
74:CC:7:LEU:HD21	74:CC:21:ASN:HB3	1.74	0.69
74:CC:31:PRO:O	74:CC:31:PRO:HD2	1.93	0.69
77:Cp:49:ARG:CB	77:Cp:55:TRP:CZ3	2.75	0.69
79:CJ:17:ILE:HD11	79:CJ:83:LEU:CD1	2.22	0.69
81:CE:51:VAL:H	81:CE:54:ILE:HD12	1.57	0.69
81:CE:95:PRO:HD3	81:CE:105:ARG:O	1.93	0.69
81:CE:182:ASN:O	81:CE:183:ARG:HB3	1.90	0.69
81:CE:207:LYS:O	81:CE:208:ILE:CG1	2.40	0.69
81:CE:222:LEU:HD23	81:CE:222:LEU:C	2.18	0.69
81:CE:264:ILE:HG23	81:CE:265:PRO:CD	2.22	0.69
82:CG:86:ALA:HB3	82:CG:183:ILE:HG21	1.75	0.69
82:CG:167:VAL:CG1	82:CG:170:LEU:HD12	2.08	0.69
85:A5:4083:U:C2	85:A5:4085:A:H4'	2.28	0.69
1:Az:475:VAL:HG12	1:Az:475:VAL:O	1.92	0.69
2:Ag:46:THR:C	2:Ag:48:ASP:H	2.00	0.69
2:Ag:83:TRP:CH2	12:AR:29:HIS:HB3	2.27	0.69
2:Ag:212:LYS:HG3	2:Ag:235:ILE:HD12	1.74	0.69
4:AK:18:GLU:O	4:AK:92:ALA:HB2	1.89	0.69
6:AX:108:LYS:HB3	6:AX:110:HIS:CE1	2.28	0.69
10:AN:46:THR:O	10:AN:50:ILE:HD12	1.93	0.69
11:AL:5:GLN:CG	33:AI:197:PHE:CE2	2.76	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AV:59:ILE:CG2	17:AV:64:GLU:HB2	2.23	0.69
18:AY:55:ILE:CD1	18:AY:75:ILE:CD1	2.70	0.69
18:AY:118:ARG:HH21	29:AG:85:ARG:HD2	1.53	0.69
22:Ac:5:ARG:N	22:Ac:5:ARG:NE	2.40	0.69
22:Ac:59:LEU:HB3	30:AF:204:ARG:NH1	2.04	0.69
23:AD:215:ASP:O	23:AD:216:GLU:HB2	1.93	0.69
27:AE:195:ILE:HG22	27:AE:196:THR:N	2.06	0.69
28:AC:127:PHE:CD2	28:AC:141:VAL:CG2	2.73	0.69
28:AC:180:VAL:HG12	28:AC:181:PRO:N	2.08	0.69
36:B2:1781:A:H2'	36:B2:1782:G:C8	2.28	0.69
38:Cz:38:LEU:HB2	38:Cz:163:LEU:HD22	1.73	0.69
39:Cq:90:PHE:C	39:Cq:91:THR:HG23	2.18	0.69
45:Ca:73:VAL:HG22	45:Ca:108:TYR:HE1	1.50	0.69
46:CN:72:LYS:HE2	46:CN:89:VAL:HG13	1.75	0.69
46:CN:75:VAL:HB	46:CN:76:PRO:CD	2.22	0.69
46:CN:84:PRO:HD2	46:CN:85:VAL:N	2.08	0.69
47:CI:48:LEU:HB2	47:CI:142:LEU:HD23	1.73	0.69
48:CD:223:PHE:CB	48:CD:226:TYR:CE2	2.75	0.69
50:CR:101:ILE:CA	50:CR:104:ARG:HD2	2.20	0.69
52:CS:98:ARG:NH1	52:CS:145:PHE:CB	2.51	0.69
54:CP:95:LEU:HD11	54:CP:148:MET:CE	2.23	0.69
56:CX:96:LEU:HB3	56:CX:98:PHE:CE2	2.28	0.69
58:CW:14:TYR:CD1	63:CB:367:PHE:CZ	2.81	0.69
58:CW:86:SER:O	58:CW:90:ILE:HG12	1.91	0.69
60:Cr:113:ARG:HA	60:Cr:113:ARG:HE	1.58	0.69
61:Ch:109:ARG:HH22	61:Ch:110:LYS:CG	2.06	0.69
63:CB:124:LYS:O	63:CB:124:LYS:HG3	1.91	0.69
68:Cf:11:PHE:CD1	68:Cf:92:LEU:HD12	2.28	0.69
70:CI:11:LEU:HD13	70:CI:12:ASN:CG	2.16	0.69
72:Ck:64:LEU:HD23	72:Ck:66:VAL:CG2	2.23	0.69
74:CC:295:SER:HB2	74:CC:296:PRO:HD3	1.75	0.69
78:Co:76:ASN:HA	78:Co:78:ARG:CB	2.22	0.69
80:CH:5:LEU:HD23	80:CH:60:TRP:CH2	2.28	0.69
80:CH:103:VAL:HG12	80:CH:105:ILE:HD11	1.75	0.69
82:CG:82:GLN:OE1	82:CG:233:ILE:CG2	2.40	0.69
83:Ct:43:TRP:N	83:Ct:44:PRO:CD	2.55	0.69
1:Az:502:SER:OG	1:Az:811:GLN:CG	2.24	0.69
2:Ag:298:LEU:HD12	2:Ag:298:LEU:C	2.17	0.69
4:AK:12:TYR:CD2	4:AK:82:TYR:HD2	2.11	0.69
8:AS:15:VAL:HG12	8:AS:16:LEU:H	1.57	0.69
12:AR:72:LYS:O	12:AR:76:GLU:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:95:ILE:H	12:AR:114:LEU:HD13	1.58	0.69
15:AB:195:LYS:HA	15:AB:195:LYS:HE2	1.73	0.69
17:AV:18:SER:HB3	17:AV:54:ALA:O	1.93	0.69
21:Ab:5:LYS:CB	21:Ab:5:LYS:HZ2	2.04	0.69
30:AF:36:GLN:CG	30:AF:37:ASP:OD1	2.30	0.69
31:AH:6:ALA:CB	31:AH:10:LYS:HD3	2.22	0.69
32:AW:30:CYS:HA	32:AW:34:ILE:HD12	1.74	0.69
33:AI:141:ARG:HG3	33:AI:144:LYS:O	1.93	0.69
41:CO:54:TYR:O	41:CO:58:LEU:HG	1.92	0.69
41:CO:60:LYS:O	41:CO:61:ARG:HG3	1.92	0.69
43:CV:32:THR:HG21	43:CV:113:LYS:CG	2.23	0.69
45:Ca:59:LYS:CA	49:CQ:172:ARG:HH22	2.05	0.69
46:CN:38:ARG:HG3	46:CN:62:TYR:CZ	2.27	0.69
48:CD:115:MET:CE	48:CD:139:PRO:HB3	2.23	0.69
49:CQ:18:PRO:O	49:CQ:19:LYS:C	2.33	0.69
51:CA:221:LYS:O	51:CA:222:PRO:C	2.36	0.69
52:CS:9:GLU:CD	52:CS:33:PHE:CE2	2.71	0.69
53:CT:118:GLU:CD	53:CT:122:LYS:HD3	2.18	0.69
54:CP:75:GLN:C	54:CP:76:TRP:CE3	2.71	0.69
57:CY:83:GLU:O	57:CY:84:ARG:CB	2.39	0.69
59:CZ:26:VAL:HG22	59:CZ:42:LEU:O	1.93	0.69
59:CZ:118:PHE:HZ	59:CZ:130:PHE:HZ	1.41	0.69
60:Cr:30:ASN:ND2	60:Cr:48:THR:HB	2.08	0.69
62:Cb:51:LYS:HZ3	62:Cb:54:LEU:HD22	1.56	0.69
62:Cb:75:LEU:CD1	62:Cb:79:LYS:CE	2.58	0.69
63:CB:109:HIS:HB2	63:CB:202:GLU:OE2	1.92	0.69
63:CB:117:ARG:HA	63:CB:177:LYS:CD	2.23	0.69
74:CC:232:VAL:C	74:CC:263:LEU:CD1	2.66	0.69
74:CC:262:GLU:O	74:CC:264:TYR:N	2.25	0.69
78:Co:25:GLN:NE2	78:Co:91:PHE:CZ	2.55	0.69
82:CG:98:LEU:HD23	82:CG:218:LEU:HD12	1.75	0.69
1:Az:116:THR:HB	1:Az:499:PHE:HB3	1.75	0.68
1:Az:191:THR:HG21	1:Az:192:TYR:CE1	2.28	0.68
1:Az:397:TYR:CE1	1:Az:496:VAL:HG12	2.17	0.68
2:Ag:24:THR:HG23	2:Ag:27:PHE:O	1.92	0.68
2:Ag:261:LEU:O	2:Ag:264:LYS:CD	2.40	0.68
3:AU:82:MET:HE2	9:Ad:51:GLY:C	2.19	0.68
3:AU:107:GLU:OE2	23:AD:40:ARG:NH1	2.26	0.68
5:AO:84:ARG:HA	5:AO:87:GLU:HB2	1.75	0.68
10:AN:92:ILE:CG2	10:AN:150:VAL:CG2	2.72	0.68
11:AL:82:MET:HB2	11:AL:85:THR:HG22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:52:LYS:N	13:AP:54:HIS:NE2	2.41	0.68
13:AP:108:LYS:H	13:AP:111:MET:CE	2.03	0.68
14:AT:29:LYS:HE3	14:AT:29:LYS:CA	2.10	0.68
15:AB:61:GLY:O	15:AB:65:ARG:NH2	2.26	0.68
16:AA:76:VAL:HG12	16:AA:87:VAL:CG1	2.23	0.68
19:AZ:99:LEU:HD23	19:AZ:109:TYR:CD1	2.27	0.68
21:Ab:61:THR:CG2	21:Ab:62:VAL:H	2.06	0.68
25:Af:98:VAL:CG1	25:Af:99:LYS:N	2.39	0.68
26:AJ:37:LEU:CD2	26:AJ:43:VAL:HG23	2.22	0.68
26:AJ:66:LYS:HA	26:AJ:71:LEU:CD1	2.19	0.68
27:AE:74:GLY:O	27:AE:75:LYS:HG2	1.93	0.68
32:AW:128:PHE:HD1	32:AW:129:PHE:N	1.91	0.68
33:AI:154:LYS:HD3	33:AI:155:ASN:CA	2.22	0.68
35:Ah:297:GLN:O	35:Ah:297:GLN:HG2	1.94	0.68
39:Cq:28:PHE:CD2	39:Cq:98:ILE:CG2	2.64	0.68
39:Cq:262:ALA:O	39:Cq:263:GLU:C	2.36	0.68
41:CO:88:LEU:CD1	41:CO:99:LEU:HD23	2.22	0.68
47:CI:112:GLN:HA	47:CI:112:GLN:OE1	1.93	0.68
50:CR:86:ASN:OD1	50:CR:86:ASN:C	2.36	0.68
50:CR:93:VAL:O	50:CR:97:ARG:CG	2.38	0.68
51:CA:97:ASN:HD21	51:CA:100:ASN:HD21	1.39	0.68
51:CA:122:ASP:O	51:CA:123:ARG:HB2	1.93	0.68
51:CA:210:PRO:HG2	51:CA:233:ARG:HA	1.75	0.68
54:CP:127:ARG:O	54:CP:139:TYR:O	2.10	0.68
57:CY:2:LYS:NZ	57:CY:7:VAL:O	2.26	0.68
59:CZ:33:THR:HG21	59:CZ:36:ARG:HG3	1.75	0.68
64:CF:87:PRO:O	64:CF:125:LEU:HD12	1.93	0.68
64:CF:148:LYS:HB3	64:CF:245:ARG:HH11	1.56	0.68
66:Cd:42:ALA:HB3	66:Cd:73:TRP:CH2	2.27	0.68
66:Cd:43:PRO:N	66:Cd:73:TRP:CZ2	2.61	0.68
69:Cg:5:LEU:CD2	69:Cg:22:LEU:HD13	2.21	0.68
69:Cg:42:PRO:O	69:Cg:53:LEU:N	2.27	0.68
77:Cp:50:ARG:NH1	77:Cp:54:ILE:CG1	2.55	0.68
79:CJ:175:LEU:C	79:CJ:176:PRO:O	2.36	0.68
80:CH:118:LEU:HD21	80:CH:177:ASP:CB	2.23	0.68
81:CE:285:LYS:O	81:CE:286:LEU:C	2.36	0.68
84:Cu:7:TYR:OH	84:Cu:42:VAL:HB	1.93	0.68
1:Az:322:LYS:HZ3	1:Az:322:LYS:CB	2.02	0.68
2:Ag:228:TYR:CE2	2:Ag:230:LEU:HD11	2.29	0.68
7:AM:28:HIS:HD2	7:AM:115:GLY:HA3	1.53	0.68
13:AP:5:GLU:H	13:AP:10:ARG:HH11	1.35	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:70:MET:O	13:AP:71:GLU:CB	2.39	0.68
14:AT:83:GLN:HE22	14:AT:85:ASN:HA	1.58	0.68
15:AB:146:ARG:NH1	15:AB:146:ARG:H	1.89	0.68
16:AA:32:PHE:CD1	16:AA:33:GLN:HG2	2.26	0.68
16:AA:84:GLN:O	16:AA:88:LEU:HD23	1.93	0.68
18:AY:54:VAL:CG2	18:AY:79:LEU:CD2	2.71	0.68
22:Ac:48:GLY:HA2	30:AF:145:ARG:CG	2.21	0.68
23:AD:43:PRO:O	23:AD:44:THR:CG2	2.38	0.68
23:AD:66:ILE:O	23:AD:70:THR:HG23	1.92	0.68
25:Af:140:TYR:CZ	25:Af:146:LEU:O	2.45	0.68
26:AJ:87:LEU:CD1	26:AJ:91:LYS:HB3	2.22	0.68
29:AG:50:VAL:CG1	29:AG:111:LEU:HD13	2.11	0.68
31:AH:40:LEU:O	31:AH:42:GLU:N	2.27	0.68
31:AH:57:ARG:CD	31:AH:89:GLY:O	2.40	0.68
38:Cz:65:VAL:HG21	38:Cz:147:LYS:CE	2.23	0.68
39:Cq:63:LYS:NZ	39:Cq:78:LEU:HB3	2.07	0.68
40:CK:50:THR:OG1	40:CK:72:GLU:HB3	1.93	0.68
40:CK:94:LYS:CA	40:CK:95:GLN:C	2.54	0.68
41:CO:22:ILE:HD12	41:CO:120:VAL:HG11	1.73	0.68
41:CO:55:LEU:HA	41:CO:58:LEU:HD12	1.75	0.68
45:Ca:37:GLY:HA2	45:Ca:45:PHE:CD2	2.28	0.68
46:CN:35:ALA:CA	46:CN:65:ARG:NH1	2.56	0.68
55:CU:108:GLU:HA	55:CU:110:TYR:CZ	2.28	0.68
56:CX:156:ILE:OXT	56:CX:156:ILE:CG2	2.41	0.68
58:CW:23:ARG:CZ	58:CW:29:PHE:CE2	2.74	0.68
64:CF:87:PRO:HG3	64:CF:144:TYR:CZ	2.27	0.68
64:CF:162:ILE:HD13	64:CF:177:ARG:HH21	1.57	0.68
64:CF:185:ILE:O	64:CF:185:ILE:HG22	1.92	0.68
65:Cc:28:VAL:CG1	65:Cc:33:GLN:CG	2.32	0.68
74:CC:22:VAL:HG11	74:CC:257:PHE:HD2	1.58	0.68
74:CC:40:VAL:CG1	74:CC:44:LEU:HD11	2.22	0.68
74:CC:175:LYS:HD2	74:CC:175:LYS:N	2.08	0.68
78:Co:83:LEU:O	78:Co:83:LEU:CD1	2.30	0.68
81:CE:274:VAL:HG12	81:CE:275:PHE:CA	2.23	0.68
82:CG:34:LYS:O	82:CG:34:LYS:CG	2.42	0.68
1:Az:137:VAL:CG1	1:Az:807:GLN:OE1	2.40	0.68
1:Az:144:ARG:O	1:Az:147:ILE:HG22	1.93	0.68
1:Az:449:ARG:HB3	1:Az:473:VAL:HG11	1.74	0.68
1:Az:502:SER:O	1:Az:504:VAL:CG2	2.36	0.68
1:Az:517:LEU:HB3	1:Az:518:PRO:HD3	1.73	0.68
2:Ag:175:LYS:HD3	2:Ag:177:TRP:CE2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:212:LYS:HA	2:Ag:235:ILE:CG1	2.23	0.68
3:AU:44:LYS:O	3:AU:47:ASN:CA	2.42	0.68
3:AU:83:ARG:CZ	9:Ad:55:LEU:HD13	2.24	0.68
3:AU:117:ALA:C	3:AU:118:ASP:O	2.28	0.68
8:AS:87:GLN:O	8:AS:88:LYS:O	2.10	0.68
12:AR:105:MET:HG2	16:AA:48:ILE:HG21	0.69	0.68
12:AR:123:THR:HG22	16:AA:44:ASP:C	2.15	0.68
15:AB:77:ASP:HA	15:AB:79:VAL:HG22	1.75	0.68
16:AA:147:LEU:CD2	16:AA:163:CYS:SG	2.82	0.68
16:AA:180:ARG:HD3	16:AA:184:ARG:HH21	1.57	0.68
18:AY:22:GLN:HB3	18:AY:74:MET:HE1	1.74	0.68
19:AZ:92:LEU:HD11	19:AZ:109:TYR:OH	1.93	0.68
22:Ac:65:ALA:C	22:Ac:66:ARG:CG	2.66	0.68
26:AJ:14:VAL:HG23	26:AJ:48:PHE:CD1	2.29	0.68
26:AJ:133:ARG:HD3	26:AJ:141:VAL:HG11	1.73	0.68
27:AE:175:PHE:O	27:AE:175:PHE:CD2	2.45	0.68
28:AC:156:ILE:HG23	28:AC:157:LEU:N	2.06	0.68
28:AC:275:LYS:HD2	28:AC:276:THR:N	2.08	0.68
30:AF:14:THR:OG1	34:AQ:56:LEU:CD1	2.42	0.68
34:AQ:50:LYS:HG3	34:AQ:85:ARG:HH21	1.56	0.68
38:Cz:47:LYS:HG3	38:Cz:195:LYS:HD3	1.73	0.68
39:Cq:21:LEU:CD1	39:Cq:66:ARG:HB2	2.21	0.68
39:Cq:28:PHE:CE2	39:Cq:98:ILE:CD1	2.76	0.68
40:CK:34:PRO:HD2	40:CK:35:LEU:N	2.08	0.68
42:CL:144:LEU:CD1	42:CL:150:LEU:HG	2.23	0.68
50:CR:11:ALA:HB2	50:CR:50:ILE:CD1	2.23	0.68
50:CR:15:LEU:HD13	50:CR:45:ILE:HD11	1.75	0.68
50:CR:31:GLU:OE2	55:CU:125:GLU:C	2.36	0.68
50:CR:96:MET:HE1	85:A5:2667:C:OP1	1.94	0.68
51:CA:180:LEU:HD23	51:CA:184:ARG:CZ	2.23	0.68
57:CY:34:LEU:HD23	57:CY:39:ARG:HA	1.73	0.68
59:CZ:57:MET:HE1	59:CZ:61:LYS:CG	2.23	0.68
61:Ch:9:LEU:HD12	61:Ch:56:ARG:HH12	1.57	0.68
63:CB:61:ASP:CG	63:CB:361:GLU:CG	2.56	0.68
63:CB:305:THR:CG2	63:CB:308:ASP:H	2.06	0.68
67:Ce:5:ARG:NH1	67:Ce:93:LYS:CE	2.57	0.68
67:Ce:9:LYS:HE2	67:Ce:73:GLY:O	1.93	0.68
77:Cp:47:MET:CE	77:Cp:56:HIS:O	2.40	0.68
78:Co:76:ASN:C	78:Co:78:ARG:N	2.50	0.68
79:CJ:155:HIS:O	79:CJ:156:ARG:HB3	1.91	0.68
80:CH:1:MET:O	80:CH:2:LYS:CG	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:34:LEU:HD21	80:CH:150:ASP:CG	2.18	0.68
80:CH:92:MET:HE2	80:CH:179:ILE:HG22	1.75	0.68
80:CH:110:SER:CB	80:CH:111:LEU:CA	2.68	0.68
81:CE:154:THR:HG21	85:A5:4942:C:OP1	1.93	0.68
81:CE:203:ILE:CD1	81:CE:205:ASN:O	2.42	0.68
1:Az:546:ILE:HG22	1:Az:554:LEU:HD11	1.75	0.68
2:Ag:298:LEU:CD2	2:Ag:310:TRP:HB2	2.22	0.68
4:AK:46:MET:HA	4:AK:69:TRP:CH2	2.28	0.68
4:AK:64:TRP:C	4:AK:65:ARG:CG	2.66	0.68
8:AS:39:ARG:NH2	14:AT:38:LYS:CG	2.57	0.68
9:Ad:10:HIS:CG	9:Ad:11:PRO:CD	2.76	0.68
10:AN:76:LYS:C	10:AN:76:LYS:HD2	2.18	0.68
10:AN:87:ASP:OD1	10:AN:88:LEU:N	2.27	0.68
10:AN:142:GLU:HG2	10:AN:144:SER:OG	1.93	0.68
11:AL:22:ARG:HD2	33:AI:155:ASN:CA	2.22	0.68
12:AR:84:TYR:C	16:AA:201:LEU:HD13	2.19	0.68
13:AP:51:ARG:O	13:AP:52:LYS:HB3	1.91	0.68
18:AY:54:VAL:HG22	18:AY:79:LEU:CD2	2.23	0.68
18:AY:101:LYS:C	18:AY:102:THR:OG1	2.29	0.68
26:AJ:72:PHE:CE1	27:AE:248:ILE:O	2.34	0.68
26:AJ:102:ILE:CG2	26:AJ:106:LEU:HD13	2.23	0.68
26:AJ:171:GLY:C	26:AJ:173:VAL:N	2.48	0.68
28:AC:84:PHE:CE1	28:AC:264:SER:HA	2.28	0.68
29:AG:151:ASP:OD1	58:CW:105:ARG:NE	2.26	0.68
29:AG:161:PRO:HD2	29:AG:161:PRO:O	1.93	0.68
33:AI:141:ARG:C	33:AI:143:LYS:HB3	2.19	0.68
36:B2:499:G:N1	36:B2:501:C:H1'	2.09	0.68
36:B2:852:G:H3'	36:B2:853:C:C5'	2.24	0.68
38:Cz:110:PHE:HD2	38:Cz:133:LYS:HB3	1.57	0.68
39:Cq:82:ILE:O	39:Cq:83:ARG:CD	2.41	0.68
39:Cq:255:THR:HG22	84:Cv:45:GLU:O	1.94	0.68
40:CK:10:ILE:CB	40:CK:66:ASN:C	2.66	0.68
41:CO:27:VAL:O	41:CO:101:ARG:NH1	2.24	0.68
41:CO:60:LYS:HE3	85:A5:2046:G:C5	2.29	0.68
41:CO:177:LEU:CA	44:CM:130:LEU:HD21	2.22	0.68
42:CL:87:HIS:O	42:CL:90:VAL:N	2.25	0.68
43:CV:9:SER:OG	43:CV:128:LEU:HD12	1.89	0.68
44:CM:77:TRP:CD1	44:CM:82:ILE:CG2	2.77	0.68
45:Ca:97:ALA:HA	45:Ca:98:ALA:HB2	1.75	0.68
47:CI:9:TYR:CZ	47:CI:97:ILE:CG2	2.75	0.68
47:CI:185:VAL:HG21	47:CI:190:LEU:CD1	2.15	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:78:PHE:CZ	52:CS:102:THR:HG22	2.28	0.68
52:CS:83:ARG:HH21	53:CT:156:TYR:HB2	1.59	0.68
52:CS:138:ARG:HD3	52:CS:139:ARG:NH1	2.09	0.68
52:CS:141:ALA:HA	52:CS:144:GLN:NE2	2.09	0.68
52:CS:154:LEU:HD13	52:CS:157:ARG:CD	2.20	0.68
54:CP:39:MET:SD	54:CP:43:LYS:HE2	2.33	0.68
55:CU:66:SER:O	55:CU:67:LYS:HG2	1.90	0.68
56:CX:56:ARG:O	56:CX:57:GLN:CD	2.36	0.68
56:CX:76:ILE:HD11	56:CX:104:ALA:HB1	1.74	0.68
58:CW:14:TYR:O	58:CW:17:HIS:HB2	1.94	0.68
58:CW:87:LEU:CA	58:CW:90:ILE:HG13	2.20	0.68
59:CZ:5:MET:O	59:CZ:6:LYS:HB2	1.93	0.68
61:Ch:76:LYS:O	61:Ch:77:LYS:CB	2.37	0.68
63:CB:82:PRO:CG	63:CB:171:LEU:HD21	2.21	0.68
66:Cd:25:TYR:CZ	66:Cd:56:GLU:OE1	2.47	0.68
69:Cg:77:ALA:O	69:Cg:79:GLY:N	2.27	0.68
69:Cg:84:ALA:HA	69:Cg:87:VAL:HB	1.74	0.68
71:Cj:81:GLY:O	71:Cj:82:THR:HG22	1.94	0.68
74:CC:24:LEU:CD2	74:CC:24:LEU:N	2.55	0.68
74:CC:28:PHE:CD1	74:CC:129:ALA:C	2.71	0.68
74:CC:263:LEU:O	74:CC:264:TYR:CG	2.46	0.68
80:CH:31:ARG:CD	80:CH:149:ASN:OD1	2.41	0.68
80:CH:103:VAL:HG12	80:CH:105:ILE:CD1	2.23	0.68
81:CE:179:LEU:HD13	81:CE:179:LEU:O	1.94	0.68
1:Az:58:ASP:CB	1:Az:63:GLU:CD	2.66	0.68
1:Az:73:THR:N	1:Az:104:ASP:HB2	1.97	0.68
1:Az:120:ARG:HH11	1:Az:496:VAL:HA	1.57	0.68
1:Az:397:TYR:HE1	1:Az:496:VAL:CG1	2.03	0.68
1:Az:432:PRO:HB3	1:Az:497:MET:CE	2.24	0.68
1:Az:829:SER:CB	1:Az:832:SER:N	2.53	0.68
2:Ag:42:MET:CB	2:Ag:92:LEU:HD11	2.23	0.68
4:AK:14:LEU:CD2	4:AK:35:LEU:CD1	2.71	0.68
7:AM:79:VAL:HG12	7:AM:80:ASP:N	2.09	0.68
8:AS:6:PRO:O	19:AZ:49:LEU:HD11	1.94	0.68
9:Ad:22:ARG:NH1	23:AD:16:ILE:HG21	2.09	0.68
11:AL:148:ALA:C	11:AL:150:GLY:N	2.50	0.68
13:AP:128:HIS:HD2	36:B2:1522:A:C5'	2.07	0.68
17:AV:80:SER:O	17:AV:81:LYS:HE3	1.90	0.68
20:Aa:84:VAL:HB	36:B2:1866:A:H62	1.57	0.68
23:AD:112:GLY:O	23:AD:113:LEU:HD12	1.86	0.68
25:Af:106:TYR:OH	25:Af:131:PHE:HE2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:15:THR:HG21	26:AJ:44:TRP:HZ3	1.58	0.68
27:AE:43:PRO:HG2	27:AE:46:ILE:HD12	1.74	0.68
27:AE:139:LEU:CD1	27:AE:154:ILE:CG2	2.69	0.68
28:AC:256:TRP:C	28:AC:257:LYS:HG3	2.17	0.68
31:AH:107:LYS:O	31:AH:109:ARG:HA	1.94	0.68
34:AQ:12:VAL:CG1	34:AQ:13:PHE:N	2.55	0.68
34:AQ:92:LEU:CG	34:AQ:96:TYR:CE2	2.69	0.68
35:Ah:291:ASP:HA	35:Ah:294:LYS:CE	2.24	0.68
39:Cq:189:ILE:HD11	39:Cq:192:VAL:HG23	1.76	0.68
40:CK:113:ALA:C	40:CK:116:MET:HG2	2.17	0.68
42:CL:58:ILE:CG2	42:CL:70:VAL:CG1	2.70	0.68
44:CM:51:PRO:HD2	44:CM:51:PRO:O	1.93	0.68
46:CN:112:ALA:O	46:CN:138:PHE:CZ	2.45	0.68
46:CN:192:TRP:CE2	46:CN:196:ASN:ND2	2.62	0.68
48:CD:130:TYR:CD2	48:CD:131:ASN:CA	2.77	0.68
49:CQ:77:ASN:C	49:CQ:78:LYS:CE	2.66	0.68
51:CA:82:ILE:HD11	51:CA:99:GLY:CA	2.19	0.68
51:CA:134:ALA:HB1	51:CA:148:VAL:CG1	2.23	0.68
53:CT:144:ASN:C	53:CT:144:ASN:ND2	2.45	0.68
54:CP:105:LYS:CD	54:CP:105:LYS:N	2.57	0.68
57:CY:51:LYS:O	57:CY:52:ASP:C	2.25	0.68
58:CW:76:VAL:CG1	58:CW:77:LYS:H	2.03	0.68
59:CZ:33:THR:HG1	59:CZ:36:ARG:N	1.91	0.68
63:CB:311:ASP:O	63:CB:312:LYS:HE2	1.93	0.68
64:CF:51:TYR:CE2	81:CE:58:SER:CB	2.53	0.68
66:Cd:39:LYS:HZ3	66:Cd:78:ARG:HH21	0.69	0.68
68:Cf:11:PHE:CE2	68:Cf:97:ILE:HD11	2.11	0.68
72:Ck:22:SER:CA	72:Ck:65:ALA:HB3	2.20	0.68
74:CC:311:ARG:O	74:CC:312:ARG:HB3	1.94	0.68
82:CG:121:LYS:CD	82:CG:122:ALA:CA	2.70	0.68
83:Ct:15:ILE:HD13	84:Cv:9:LEU:HD12	1.72	0.68
1:Az:58:ASP:CA	1:Az:63:GLU:OE1	2.40	0.68
1:Az:518:PRO:CD	6:AX:50:ILE:CD1	2.71	0.68
2:Ag:238:ALA:HB3	2:Ag:289:LEU:CD2	2.24	0.68
3:AU:25:THR:CG2	3:AU:86:LYS:HG2	2.22	0.68
7:AM:67:ALA:HB1	25:Af:114:ILE:HG22	1.74	0.68
8:AS:91:LYS:C	8:AS:92:ASP:OD2	2.37	0.68
13:AP:30:TYR:O	13:AP:34:MET:HG3	1.94	0.68
13:AP:41:GLN:CD	13:AP:84:ILE:CB	2.61	0.68
13:AP:85:ILE:C	13:AP:86:LEU:HD23	2.19	0.68
17:AV:40:ASP:CB	17:AV:47:ASN:HD22	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:48:VAL:HA	19:AZ:83:LEU:HD12	1.76	0.68
23:AD:10:LYS:HE2	23:AD:14:ASP:OD2	1.94	0.68
27:AE:152:PRO:HG3	29:AG:209:TYR:CE1	2.29	0.68
28:AC:81:ILE:HG23	28:AC:86:LEU:HB2	1.74	0.68
29:AG:195:LYS:CE	36:B2:125:C:O2'	2.32	0.68
30:AF:46:ALA:C	30:AF:47:LYS:HD3	2.18	0.68
30:AF:91:ARG:NH1	30:AF:94:LYS:CG	2.37	0.68
31:AH:65:PRO:HG2	31:AH:68:GLN:CD	2.19	0.68
32:AW:18:GLU:HG2	32:AW:65:LEU:HD13	1.76	0.68
34:AQ:57:LEU:CD1	34:AQ:115:TYR:CZ	2.60	0.68
38:Cz:204:LEU:CD2	38:Cz:216:LEU:HD21	2.24	0.68
39:Cq:133:GLU:O	39:Cq:135:THR:N	2.27	0.68
41:CO:133:ARG:HD3	41:CO:133:ARG:N	2.09	0.68
42:CL:10:LEU:CD2	42:CL:10:LEU:N	2.46	0.68
46:CN:116:LEU:CD1	46:CN:135:ILE:HD12	2.22	0.68
50:CR:99:MET:CE	50:CR:128:LYS:N	2.56	0.68
51:CA:24:LYS:HA	51:CA:24:LYS:HE2	1.76	0.68
51:CA:44:ILE:HG22	51:CA:87:PHE:CD1	2.29	0.68
52:CS:90:THR:HG21	53:CT:156:TYR:HD1	1.52	0.68
53:CT:111:GLU:OE1	53:CT:115:LYS:CE	2.42	0.68
55:CU:100:LEU:HD21	55:CU:114:TYR:HB2	1.75	0.68
56:CX:80:PRO:CD	61:Ch:33:VAL:CG2	2.71	0.68
57:CY:22:PRO:O	57:CY:23:SER:C	2.37	0.68
62:Cb:63:LYS:HD2	62:Cb:63:LYS:O	1.94	0.68
69:Cg:39:GLY:CA	69:Cg:40:LYS:HE3	2.24	0.68
69:Cg:48:VAL:C	69:Cg:49:CYS:O	2.30	0.68
80:CH:183:GLU:C	80:CH:183:GLU:OE1	2.36	0.68
81:CE:215:ALA:O	81:CE:218:LYS:HG2	1.93	0.68
82:CG:35:ARG:CA	82:CG:36:PRO:N	2.56	0.68
84:Cv:7:TYR:HE1	84:Cv:23:ILE:HD11	1.56	0.68
1:Az:745:TYR:CD2	1:Az:813:VAL:O	2.47	0.68
1:Az:849:PRO:HD2	1:Az:849:PRO:O	1.92	0.68
2:Ag:42:MET:SD	2:Ag:56:GLN:HB3	2.34	0.68
7:AM:49:LEU:HD13	7:AM:50:CYS:H	1.58	0.68
8:AS:111:LEU:HD22	8:AS:125:HIS:ND1	2.09	0.68
9:Ad:22:ARG:NH2	23:AD:16:ILE:CD1	2.42	0.68
12:AR:84:TYR:C	12:AR:85:VAL:HG23	2.18	0.68
12:AR:122:PRO:CB	12:AR:123:THR:CB	2.71	0.68
13:AP:56:LEU:HD11	13:AP:80:LEU:HD12	1.75	0.68
14:AT:124:THR:HG21	14:AT:126:GLN:HB3	1.76	0.68
15:AB:209:ASP:O	15:AB:210:VAL:CG2	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:66:VAL:CG1	16:AA:186:ARG:CD	2.71	0.68
24:Ae:46:VAL:HG13	24:Ae:47:PRO:N	2.07	0.68
26:AJ:91:LYS:O	26:AJ:93:LYS:N	2.25	0.68
31:AH:193:GLN:H	31:AH:193:GLN:CD	2.00	0.68
36:B2:742:U:C6	36:B2:743:U:C5	2.82	0.68
38:Cz:29:LEU:HD11	38:Cz:172:VAL:N	2.09	0.68
38:Cz:189:PHE:O	38:Cz:193:LEU:HD23	1.93	0.68
39:Cq:29:ILE:HG23	39:Cq:86:VAL:CG1	2.24	0.68
39:Cq:259:PHE:HB3	39:Cq:264:LYS:HG3	1.74	0.68
39:Cq:269:LEU:C	39:Cq:272:PRO:HG2	2.18	0.68
40:CK:14:TYR:CD1	40:CK:14:TYR:C	2.72	0.68
40:CK:78:SER:HA	40:CK:117:ARG:HH12	1.56	0.68
41:CO:12:ARG:HB3	41:CO:37:ARG:HD2	1.75	0.68
41:CO:26:GLN:NE2	52:CS:166:ARG:CB	2.56	0.68
41:CO:74:ARG:HG2	41:CO:145:VAL:O	1.94	0.68
43:CV:32:THR:HG22	43:CV:113:LYS:HG3	1.76	0.68
45:Ca:27:LYS:O	45:Ca:28:HIS:CD2	2.46	0.68
46:CN:35:ALA:N	46:CN:65:ARG:HH11	1.91	0.68
46:CN:156:HIS:HB3	46:CN:159:ARG:HD3	1.75	0.68
47:CI:109:ASP:O	47:CI:110:ARG:HG3	1.92	0.68
48:CD:190:PHE:CE2	48:CD:192:ALA:HB2	2.28	0.68
50:CR:15:LEU:O	50:CR:16:ARG:CB	2.42	0.68
56:CX:43:SER:CA	82:CG:51:LEU:HD12	2.23	0.68
66:Cd:57:MET:CE	66:Cd:88:LEU:CD1	2.68	0.68
70:Ci:12:ASN:O	70:Ci:13:LYS:C	2.33	0.68
74:CC:147:VAL:HG22	74:CC:175:LYS:HB2	1.71	0.68
74:CC:312:ARG:O	74:CC:313:VAL:CB	2.36	0.68
1:Az:502:SER:C	1:Az:504:VAL:H	2.00	0.68
1:Az:531:ASP:HB3	1:Az:534:VAL:HG12	1.75	0.68
1:Az:762:VAL:CG1	1:Az:766:LYS:HZ2	2.01	0.68
5:AO:41:PHE:CD1	5:AO:57:THR:CG2	2.76	0.68
6:AX:138:LYS:C	6:AX:139:GLU:OE2	2.35	0.68
7:AM:94:ILE:O	7:AM:95:ASP:HB2	1.93	0.68
11:AL:118:ARG:O	11:AL:119:ASP:HB2	1.92	0.68
13:AP:126:VAL:O	13:AP:127:LYS:HB3	1.93	0.68
14:AT:40:ALA:CB	14:AT:43:LYS:CG	2.58	0.68
14:AT:75:MET:CE	14:AT:79:TYR:CE2	2.61	0.68
17:AV:66:ASP:O	17:AV:67:ASP:C	2.30	0.68
18:AY:57:VAL:HG12	18:AY:60:PHE:HE2	1.59	0.68
19:AZ:48:VAL:O	19:AZ:48:VAL:CG1	2.40	0.68
23:AD:197:LYS:HB3	23:AD:198:ILE:HG23	0.77	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:54:ARG:NH2	28:AC:201:GLY:CA	2.54	0.68
26:AJ:158:ASP:OD1	26:AJ:159:PHE:N	2.27	0.68
26:AJ:177:ASN:HA	26:AJ:180:LYS:HB3	1.76	0.68
28:AC:84:PHE:CZ	28:AC:262:THR:OG1	1.93	0.68
28:AC:213:LEU:HD11	28:AC:241:PHE:CD1	2.28	0.68
31:AH:145:ARG:NE	32:AW:51:GLU:CD	2.52	0.68
33:AI:36:THR:O	33:AI:95:THR:HG23	1.92	0.68
38:Cz:57:SER:O	38:Cz:58:THR:HG22	1.93	0.68
38:Cz:85:MET:HB3	38:Cz:89:ALA:HB2	1.76	0.68
38:Cz:90:LEU:HD22	38:Cz:124:LEU:HD11	1.76	0.68
44:CM:91:TRP:CE3	85:A5:4871:C:OP1	2.46	0.68
47:CI:38:ARG:CD	47:CI:83:ASP:HB2	2.24	0.68
48:CD:10:LYS:HB3	48:CD:14:LYS:HE3	1.76	0.68
48:CD:21:ARG:O	48:CD:25:GLU:HG3	1.94	0.68
48:CD:190:PHE:CE2	48:CD:192:ALA:CA	2.77	0.68
63:CB:40:PRO:HB2	63:CB:42:HIS:NE2	2.03	0.68
63:CB:40:PRO:C	63:CB:187:GLY:CA	2.67	0.68
63:CB:206:PRO:HB2	63:CB:208:ASN:OD1	1.94	0.68
64:CF:41:MET:HE1	85:A5:2121:C:H5'	1.71	0.68
65:Cc:83:THR:O	65:Cc:86:GLY:N	2.27	0.68
68:Cf:104:MET:HE3	85:A5:4947:U:O4	1.93	0.68
71:Cj:64:MET:HE3	71:Cj:68:LYS:CB	2.24	0.68
80:CH:38:PHE:O	80:CH:41:ILE:HG22	1.93	0.68
81:CE:165:LEU:CB	81:CE:174:LEU:HD23	2.23	0.68
82:CG:166:LEU:C	82:CG:167:VAL:HG23	2.19	0.68
1:Az:33:SER:CB	1:Az:57:THR:HG21	2.24	0.68
1:Az:206:ASP:O	1:Az:212:VAL:HB	1.94	0.68
1:Az:322:LYS:CB	1:Az:322:LYS:NZ	2.57	0.68
2:Ag:259:TRP:HB3	2:Ag:266:ILE:HA	1.76	0.68
4:AK:83:LEU:HB2	4:AK:85:LEU:HG	1.76	0.68
5:AO:116:LEU:HD23	5:AO:119:LEU:HD21	1.76	0.68
8:AS:42:HIS:CE1	14:AT:45:LEU:CD2	2.54	0.68
14:AT:144:LYS:NZ	14:AT:144:LYS:CB	2.55	0.68
15:AB:103:MET:HE1	15:AB:212:VAL:HG23	1.76	0.68
18:AY:13:MET:CE	18:AY:14:THR:C	2.67	0.68
23:AD:43:PRO:C	23:AD:44:THR:CG2	2.60	0.68
27:AE:1:MET:CE	36:B2:432:G:C8	2.77	0.68
27:AE:129:ILE:HG13	27:AE:139:LEU:HD23	1.44	0.68
31:AH:121:THR:O	31:AH:125:VAL:HG23	1.94	0.68
32:AW:42:MET:HE2	32:AW:49:GLU:HA	1.74	0.68
36:B2:1657:G:H1	36:B2:1667:U:H3	1.39	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:6:ARG:CG	39:Cq:10:LYS:CD	2.69	0.68
41:CO:122:ALA:HB2	52:CS:161:ARG:HB2	0.76	0.68
41:CO:125:LYS:HE3	41:CO:135:PHE:CD2	2.29	0.68
41:CO:130:LYS:HE3	41:CO:133:ARG:HH21	1.58	0.68
42:CL:18:TRP:CZ3	74:CC:108:TRP:CZ2	2.81	0.68
42:CL:21:ARG:O	46:CN:197:THR:CA	2.42	0.68
43:CV:113:LYS:C	43:CV:113:LYS:CD	2.67	0.68
45:Ca:84:GLU:O	45:Ca:87:ARG:N	2.27	0.68
48:CD:69:ILE:CG2	53:CT:31:MET:CB	2.72	0.68
48:CD:223:PHE:O	48:CD:225:GLN:N	2.27	0.68
49:CQ:69:LYS:O	49:CQ:75:ARG:HG3	1.94	0.68
50:CR:7:GLN:H	50:CR:7:GLN:CD	2.01	0.68
50:CR:132:PHE:CD1	50:CR:137:ILE:CG2	2.76	0.68
52:CS:27:LEU:HD12	52:CS:27:LEU:H	1.58	0.68
52:CS:75:VAL:O	52:CS:76:LYS:HB2	1.94	0.68
52:CS:140:PRO:CG	52:CS:141:ALA:N	2.56	0.68
53:CT:7:LYS:O	53:CT:7:LYS:CD	2.30	0.68
59:CZ:46:ILE:CG2	59:CZ:118:PHE:CE2	2.77	0.68
60:Cr:81:THR:O	60:Cr:82:ILE:HG13	1.92	0.68
61:Ch:67:GLU:O	61:Ch:70:ARG:HG2	1.94	0.68
62:Cb:55:LYS:HZ1	62:Cb:59:ALA:HB2	1.54	0.68
66:Cd:42:ALA:HB1	66:Cd:73:TRP:CD1	2.28	0.68
68:Cf:105:LEU:HD13	81:CE:195:ILE:HD11	1.76	0.68
69:Cg:43:LYS:CB	69:Cg:52:ARG:HG3	2.22	0.68
70:Ci:11:LEU:H	70:Ci:11:LEU:HD13	1.58	0.68
74:CC:146:GLU:CG	74:CC:175:LYS:CE	2.72	0.68
76:Cn:3:ALA:CA	76:Cn:6:ARG:HD3	2.13	0.68
76:Cn:3:ALA:CA	76:Cn:6:ARG:HG3	2.23	0.68
81:CE:144:ILE:CD1	81:CE:196:ALA:HB2	2.15	0.68
1:Az:272:LYS:HD2	1:Az:273:PHE:CE2	2.29	0.68
1:Az:745:TYR:O	1:Az:787:TYR:HA	1.93	0.68
4:AK:96:ARG:CG	4:AK:97:SER:N	2.57	0.68
5:AO:47:LEU:C	15:AB:67:PHE:HE1	1.97	0.68
6:AX:32:LEU:O	6:AX:37:LYS:CE	2.42	0.68
15:AB:136:ARG:CG	15:AB:138:PHE:CE2	2.74	0.68
16:AA:76:VAL:CG1	16:AA:87:VAL:HG12	2.24	0.68
17:AV:59:ILE:HG23	17:AV:64:GLU:HB2	1.75	0.68
18:AY:57:VAL:C	18:AY:58:PHE:CD2	2.72	0.68
20:Aa:87:ARG:HD2	36:B2:1866:A:C6	2.29	0.68
21:Ab:81:ARG:N	21:Ab:82:LYS:HB2	2.09	0.68
23:AD:45:ARG:HG3	23:AD:83:SER:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:39:ASN:O	24:Ae:44:ASN:N	2.27	0.68
27:AE:87:MET:O	27:AE:122:LYS:HE3	1.94	0.68
28:AC:72:ASP:O	28:AC:73:MET:HB2	1.94	0.68
29:AG:10:THR:C	58:CW:80:ARG:CZ	2.66	0.68
29:AG:77:LEU:CD1	29:AG:95:LYS:HD3	2.23	0.68
30:AF:109:LEU:O	30:AF:109:LEU:HD23	1.94	0.68
30:AF:167:LYS:CD	30:AF:171:GLU:HB3	2.24	0.68
33:AI:117:TYR:N	33:AI:117:TYR:CD2	2.61	0.68
39:Cq:29:ILE:HD11	39:Cq:63:LYS:NZ	2.08	0.68
39:Cq:139:GLN:C	39:Cq:142:GLY:N	2.49	0.68
39:Cq:269:LEU:O	39:Cq:272:PRO:HD2	1.94	0.68
40:CK:34:PRO:HD2	40:CK:35:LEU:H	1.57	0.68
40:CK:102:GLY:C	40:CK:140:GLY:HA2	2.19	0.68
40:CK:131:GLU:CG	40:CK:152:ILE:CG2	2.71	0.68
41:CO:190:ASP:HA	41:CO:191:LYS:CB	2.24	0.68
42:CL:39:ARG:NH1	85:A5:1362:G:H5'	2.09	0.68
43:CV:106:VAL:HG11	43:CV:110:GLY:HA2	1.76	0.68
43:CV:107:ASN:ND2	43:CV:111:GLU:HB2	2.09	0.68
45:Ca:93:ASN:O	45:Ca:94:LYS:HD3	1.94	0.68
45:Ca:93:ASN:ND2	45:Ca:93:ASN:C	2.30	0.68
48:CD:64:ILE:HD11	48:CD:105:LEU:CG	2.24	0.68
50:CR:65:LYS:HA	50:CR:68:LEU:HD23	1.73	0.68
56:CX:120:ASP:C	56:CX:121:VAL:CG2	2.65	0.68
57:CY:27:ARG:NH2	57:CY:28:LYS:NZ	2.42	0.68
58:CW:87:LEU:HA	58:CW:90:ILE:HG13	1.76	0.68
58:CW:90:ILE:HB	58:CW:91:MET:CE	2.24	0.68
59:CZ:14:LEU:O	69:Cg:91:ILE:HD12	1.92	0.68
61:Ch:3:LYS:O	61:Ch:4:ILE:CB	2.40	0.68
63:CB:40:PRO:CA	63:CB:41:VAL:HG22	2.24	0.68
63:CB:140:GLU:HB2	63:CB:144:LYS:HB2	1.75	0.68
63:CB:142:GLY:HA3	63:CB:147:GLU:CG	2.23	0.68
63:CB:338:VAL:O	63:CB:345:LEU:HD11	1.94	0.68
81:CE:165:LEU:CD1	81:CE:174:LEU:HD21	2.24	0.68
81:CE:222:LEU:HD22	81:CE:238:GLU:CD	2.19	0.68
82:CG:49:ARG:CG	82:CG:50:ASP:N	2.57	0.68
85:A5:4751:G:N7	85:A5:4950:U:OP2	2.27	0.68
1:Az:40:VAL:CA	1:Az:43:ALA:HB2	2.24	0.67
1:Az:64:GLN:CD	1:Az:64:GLN:C	2.58	0.67
2:Ag:74:ASP:HB2	2:Ag:76:GLN:HG2	1.75	0.67
4:AK:40:VAL:CG2	4:AK:41:PRO:HD2	2.18	0.67
5:AO:53:ILE:HG13	5:AO:53:ILE:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:52:LEU:CG	6:AX:71:ARG:HB3	2.24	0.67
8:AS:6:PRO:O	8:AS:7:GLU:CB	2.42	0.67
8:AS:106:LYS:CD	8:AS:109:GLU:OE1	2.42	0.67
12:AR:90:ALA:HA	12:AR:91:LEU:CD1	2.24	0.67
13:AP:56:LEU:HD22	13:AP:78:THR:HG22	1.75	0.67
15:AB:97:LEU:HB3	15:AB:232:HIS:CD2	2.29	0.67
15:AB:113:MET:HE3	15:AB:209:ASP:CB	2.24	0.67
15:AB:146:ARG:HH11	15:AB:146:ARG:CB	2.07	0.67
21:Ab:61:THR:CG2	21:Ab:62:VAL:O	2.40	0.67
23:AD:117:ARG:CG	35:Ah:186:ASP:OD1	2.41	0.67
23:AD:157:MET:HE3	23:AD:187:LYS:CD	2.22	0.67
27:AE:102:ILE:HD13	27:AE:236:ILE:HD12	1.75	0.67
27:AE:148:ARG:NH2	36:B2:124:U:OP1	2.26	0.67
30:AF:154:LEU:CD1	30:AF:155:CYS:N	2.55	0.67
39:Cq:233:THR:O	84:Cu:1:MET:CE	2.38	0.67
41:CO:199:HIS:O	41:CO:203:VAL:HG23	1.94	0.67
46:CN:32:GLN:HB2	82:CG:67:ARG:NH2	2.08	0.67
46:CN:41:ARG:CA	46:CN:61:ILE:HD11	2.23	0.67
46:CN:186:GLY:HA3	46:CN:191:ALA:HB2	1.75	0.67
49:CQ:151:HIS:CG	49:CQ:164:LYS:O	2.46	0.67
50:CR:44:LEU:CD2	50:CR:49:LEU:HD13	2.24	0.67
51:CA:118:GLU:CG	51:CA:119:LYS:HG2	2.22	0.67
51:CA:254:GLU:HB3	51:CA:255:LYS:CA	2.24	0.67
54:CP:114:ILE:HA	54:CP:150:LEU:HD23	1.76	0.67
60:Cr:60:VAL:HG21	60:Cr:85:ASN:OD1	1.94	0.67
60:Cr:72:LYS:N	60:Cr:73:PRO:HA	2.08	0.67
63:CB:116:ARG:CD	63:CB:122:TRP:CD2	2.76	0.67
68:Cf:11:PHE:HD2	68:Cf:97:ILE:HD13	1.48	0.67
69:Cg:79:GLY:O	69:Cg:81:SER:N	2.27	0.67
70:Ci:18:THR:OG1	70:Ci:19:LYS:N	2.23	0.67
74:CC:144:ILE:HG21	74:CC:147:VAL:HG21	1.74	0.67
74:CC:144:ILE:HG12	74:CC:249:PHE:CZ	2.29	0.67
78:Co:45:GLN:O	78:Co:45:GLN:CG	2.37	0.67
78:Co:72:CYS:CA	78:Co:73:VAL:CG2	2.69	0.67
80:CH:25:VAL:HG22	80:CH:36:ARG:O	1.94	0.67
82:CG:73:ARG:C	82:CG:74:LEU:HD12	2.17	0.67
82:CG:77:PRO:N	82:CG:237:TRP:CZ3	2.62	0.67
82:CG:87:LEU:HB2	82:CG:183:ILE:HG22	1.76	0.67
83:Cs:40:GLU:O	83:Cs:44:PRO:CD	2.42	0.67
1:Az:27:HIS:CD2	1:Az:28:VAL:CA	2.70	0.67
1:Az:41:CYS:SG	1:Az:49:ALA:CB	2.82	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:585:GLU:CB	1:Az:737:GLN:NE2	2.58	0.67
1:Az:746:LEU:HD11	1:Az:785:LYS:CB	2.24	0.67
1:Az:763:LEU:CD1	1:Az:786:ALA:HB1	2.23	0.67
1:Az:777:ALA:C	1:Az:779:THR:H	2.02	0.67
2:Ag:246:TYR:HD1	2:Ag:246:TYR:N	1.91	0.67
4:AK:36:ALA:O	4:AK:38:LYS:HD2	1.94	0.67
8:AS:26:ILE:HG22	8:AS:45:LEU:CD1	2.24	0.67
8:AS:51:ASP:OD2	8:AS:53:THR:OG1	2.12	0.67
8:AS:58:GLU:O	8:AS:59:LEU:CD1	2.32	0.67
10:AN:26:LEU:HD21	10:AN:66:VAL:HG21	1.76	0.67
12:AR:21:TYR:CD2	12:AR:73:LEU:HD12	2.30	0.67
17:AV:23:ILE:HD13	28:AC:249:SER:C	2.18	0.67
22:Ac:6:VAL:HG13	22:Ac:7:GLN:N	2.09	0.67
23:AD:217:ILE:CG2	23:AD:218:LEU:N	2.57	0.67
24:Ae:31:ARG:CB	26:AJ:38:ARG:HA	2.24	0.67
27:AE:250:GLU:O	27:AE:254:LYS:HG2	1.95	0.67
30:AF:40:ALA:N	30:AF:68:ILE:HG23	2.08	0.67
33:AI:118:ALA:HB2	33:AI:149:TYR:CZ	2.29	0.67
39:Cq:26:LYS:HE2	39:Cq:94:ASP:N	2.08	0.67
39:Cq:28:PHE:CZ	39:Cq:98:ILE:HB	2.29	0.67
40:CK:64:ILE:HB	40:CK:71:ILE:HD12	1.76	0.67
41:CO:120:VAL:O	41:CO:124:LEU:CD1	2.42	0.67
47:CI:21:ARG:HD2	47:CI:22:PHE:CZ	2.28	0.67
47:CI:206:LEU:HD23	48:CD:283:LYS:HD3	1.75	0.67
51:CA:45:VAL:HG22	51:CA:61:VAL:CG2	2.22	0.67
51:CA:245:ARG:NH1	51:CA:247:ARG:HG3	2.09	0.67
52:CS:17:LEU:N	52:CS:59:GLY:CA	2.55	0.67
54:CP:30:ARG:NH2	54:CP:62:ARG:HH22	1.93	0.67
57:CY:44:VAL:CG2	57:CY:119:LEU:HD11	2.25	0.67
59:CZ:18:TYR:CD2	59:CZ:75:TYR:OH	2.47	0.67
64:CF:87:PRO:CG	64:CF:144:TYR:CZ	2.77	0.67
73:Cl:3:SER:H	73:Cl:5:LYS:CE	2.06	0.67
78:Co:75:PRO:C	78:Co:76:ASN:CG	2.59	0.67
81:CE:138:ARG:NH1	81:CE:167:GLN:HE21	1.92	0.67
1:Az:3:ASN:ND2	1:Az:3:ASN:N	2.39	0.67
1:Az:751:CYS:SG	1:Az:756:VAL:CG2	2.83	0.67
1:Az:823:ASP:OD1	1:Az:823:ASP:C	2.37	0.67
2:Ag:219:TRP:CH2	2:Ag:226:HIS:CD2	2.82	0.67
5:AO:95:ILE:HD12	5:AO:116:LEU:HD21	1.70	0.67
5:AO:119:LEU:O	5:AO:122:SER:OG	2.07	0.67
10:AN:18:TYR:CE2	31:AH:140:VAL:O	2.47	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:94:HIS:HB3	11:AL:105:ARG:HD2	1.75	0.67
12:AR:7:LYS:HB2	12:AR:11:LYS:HE3	1.77	0.67
14:AT:83:GLN:NE2	14:AT:85:ASN:HA	2.09	0.67
15:AB:31:TYR:CE1	15:AB:94:LYS:HA	2.29	0.67
18:AY:114:MET:HA	18:AY:124:ASN:CB	2.24	0.67
22:Ac:34:PHE:O	22:Ac:34:PHE:CG	2.47	0.67
24:Ae:40:ARG:HA	24:Ae:44:ASN:CB	2.23	0.67
27:AE:62:LYS:CD	27:AE:80:ILE:CD1	2.44	0.67
29:AG:159:ARG:HH21	29:AG:171:THR:HA	1.57	0.67
31:AH:12:ASN:HD22	31:AH:46:THR:CB	2.06	0.67
31:AH:52:GLU:HA	31:AH:58:LYS:HA	1.76	0.67
31:AH:135:PHE:CD2	31:AH:136:PRO:HD3	2.29	0.67
31:AH:177:TYR:HE2	31:AH:183:LYS:HB2	1.59	0.67
31:AH:182:GLY:O	36:B2:690:G:O2'	2.11	0.67
34:AQ:57:LEU:HD11	34:AQ:115:TYR:OH	1.94	0.67
34:AQ:112:LEU:CD1	34:AQ:120:LEU:CD2	2.73	0.67
38:Cz:86:ASP:HB3	38:Cz:88:GLU:OE1	1.93	0.67
39:Cq:235:ALA:HB3	39:Cq:238:PRO:HG3	1.75	0.67
40:CK:52:ASP:O	40:CK:53:TRP:C	2.35	0.67
40:CK:62:LEU:HD13	40:CK:64:ILE:HD11	1.76	0.67
40:CK:81:ILE:HD11	40:CK:113:ALA:HB1	1.75	0.67
42:CL:126:LEU:HD23	61:Ch:117:ARG:NH1	2.09	0.67
45:Ca:91:ALA:O	45:Ca:93:ASN:CA	2.42	0.67
46:CN:38:ARG:HG3	46:CN:62:TYR:OH	1.95	0.67
46:CN:136:ASP:CB	46:CN:139:HIS:CD2	2.68	0.67
47:CI:52:MET:CE	47:CI:152:LEU:O	2.42	0.67
48:CD:130:TYR:CD2	48:CD:131:ASN:N	2.50	0.67
48:CD:146:LEU:HD13	48:CD:163:LEU:HD22	1.68	0.67
49:CQ:82:VAL:HG21	49:CQ:86:ILE:HD11	1.75	0.67
51:CA:247:ARG:O	51:CA:247:ARG:CD	2.42	0.67
52:CS:20:PRO:O	52:CS:21:LYS:HG2	1.95	0.67
57:CY:34:LEU:CD2	57:CY:39:ARG:N	2.57	0.67
61:Ch:8:ASP:O	61:Ch:12:LYS:CE	2.42	0.67
74:CC:142:HIS:CE1	74:CC:248:ARG:HA	2.29	0.67
75:Cm:106:ARG:O	75:Cm:107:ALA:C	2.36	0.67
82:CG:157:ILE:HG23	82:CG:167:VAL:HG11	1.77	0.67
83:Cs:43:TRP:HB3	83:Cs:47:PHE:CE2	2.28	0.67
1:Az:10:ARG:HH22	1:Az:465:PRO:HG3	1.60	0.67
1:Az:86:LEU:HD21	1:Az:96:ALA:HA	1.76	0.67
1:Az:470:VAL:HG22	1:Az:471:GLY:H	1.59	0.67
1:Az:481:LYS:NZ	1:Az:532:PRO:HB3	1.82	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:8:ARG:HA	2:Ag:8:ARG:HE	0.62	0.67
2:Ag:57:ARG:HH21	34:AQ:98:LYS:C	2.01	0.67
6:AX:52:LEU:HD12	6:AX:53:GLU:CA	2.24	0.67
7:AM:24:THR:O	7:AM:27:ILE:HG22	1.94	0.67
8:AS:58:GLU:CA	8:AS:59:LEU:HD13	2.21	0.67
10:AN:26:LEU:HD12	10:AN:27:LYS:HE3	1.77	0.67
10:AN:50:ILE:O	10:AN:54:LEU:HG	1.94	0.67
11:AL:148:ALA:C	11:AL:150:GLY:H	2.01	0.67
17:AV:9:VAL:HG12	17:AV:10:ASP:H	1.60	0.67
18:AY:20:ARG:HH21	18:AY:74:MET:HE2	1.60	0.67
19:AZ:96:LEU:O	19:AZ:112:ASN:ND2	2.27	0.67
27:AE:9:LEU:HB2	27:AE:30:ARG:HB2	1.76	0.67
27:AE:149:TYR:CD2	29:AG:205:GLU:HB2	2.28	0.67
27:AE:167:GLY:C	27:AE:168:LYS:HG2	2.19	0.67
28:AC:176:LYS:HD2	28:AC:177:PRO:HD2	1.77	0.67
30:AF:49:LEU:CD1	30:AF:50:PRO:HD2	2.16	0.67
30:AF:67:PRO:HG2	30:AF:70:GLU:HB3	1.76	0.67
30:AF:154:LEU:HD12	30:AF:155:CYS:CA	2.25	0.67
32:AW:37:PHE:HD2	32:AW:41:MET:HE2	1.60	0.67
33:AI:112:TRP:CH2	33:AI:117:TYR:OH	2.46	0.67
35:Ah:155:ARG:O	35:Ah:156:PRO:C	2.38	0.67
38:Cz:18:LEU:HD21	38:Cz:180:VAL:CA	2.25	0.67
40:CK:22:VAL:HG21	40:CK:48:LYS:HB2	0.67	0.67
40:CK:52:ASP:O	40:CK:54:LYS:O	2.12	0.67
40:CK:78:SER:N	40:CK:117:ARG:HH12	1.91	0.67
40:CK:93:LYS:O	40:CK:94:LYS:CB	2.40	0.67
40:CK:105:THR:HG22	40:CK:144:ASP:N	2.09	0.67
41:CO:203:VAL:OXT	41:CO:203:VAL:CG1	2.41	0.67
45:Ca:80:THR:CG2	49:CQ:90:VAL:HG21	2.25	0.67
47:CI:91:LEU:HD11	47:CI:135:ILE:HA	1.73	0.67
48:CD:271:MET:HE2	48:CD:275:GLN:HB3	1.73	0.67
49:CQ:59:PRO:HG2	49:CQ:141:GLY:O	1.94	0.67
50:CR:81:ARG:HG2	50:CR:88:ARG:CZ	2.23	0.67
50:CR:94:THR:CA	50:CR:97:ARG:HD3	2.24	0.67
52:CS:169:THR:HG22	52:CS:170:LYS:NZ	2.09	0.67
53:CT:4:THR:O	53:CT:5:LYS:HB2	1.94	0.67
53:CT:7:LYS:CE	53:CT:54:HIS:CG	2.73	0.67
56:CX:153:ILE:HD11	61:Ch:33:VAL:CG1	2.23	0.67
57:CY:74:TYR:CD1	57:CY:81:TYR:HE2	2.13	0.67
60:Cr:20:ARG:CB	67:Ce:77:PHE:HE1	1.95	0.67
60:Cr:122:LYS:N	60:Cr:123:PRO:CD	2.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:290:GLY:O	63:CB:299:ILE:CD1	2.43	0.67
65:Cc:99:PRO:CD	65:Cc:105:ILE:CG1	2.72	0.67
69:Cg:76:ARG:HD2	69:Cg:77:ALA:O	1.94	0.67
80:CH:12:ILE:HD13	80:CH:13:PRO:HD2	1.73	0.67
80:CH:19:THR:OG1	80:CH:26:ILE:HG13	1.90	0.67
81:CE:165:LEU:HD12	81:CE:174:LEU:HD21	1.76	0.67
82:CG:83:PHE:HE1	82:CG:159:HIS:CA	1.84	0.67
82:CG:140:VAL:HG21	85:A5:150:U:H5'	1.76	0.67
1:Az:39:LEU:HB3	1:Az:77:LEU:HD21	1.76	0.67
1:Az:58:ASP:HB3	1:Az:63:GLU:CD	2.15	0.67
1:Az:183:GLU:O	1:Az:187:VAL:HG23	1.95	0.67
1:Az:651:CYS:SG	1:Az:662:LEU:CD1	2.73	0.67
4:AK:94:LEU:HD23	4:AK:95:ARG:H	1.58	0.67
6:AX:29:LYS:HE3	6:AX:34:THR:HG21	1.75	0.67
9:Ad:50:ILE:HG21	9:Ad:52:PHE:HE2	1.59	0.67
12:AR:38:ILE:O	23:AD:211:VAL:O	2.12	0.67
14:AT:42:HIS:HE1	14:AT:93:SER:CB	2.08	0.67
14:AT:77:LYS:CG	14:AT:92:PHE:HZ	2.03	0.67
14:AT:85:ASN:ND2	14:AT:91:HIS:CD2	2.62	0.67
15:AB:179:ASN:CB	15:AB:183:GLU:OE1	2.43	0.67
16:AA:138:SER:O	17:AV:30:ALA:HB1	1.95	0.67
19:AZ:99:LEU:HD11	19:AZ:102:LYS:CE	2.23	0.67
20:Aa:41:ILE:HG23	20:Aa:68:TYR:CD1	2.29	0.67
26:AJ:84:ILE:CD1	26:AJ:86:VAL:HG21	2.24	0.67
26:AJ:131:ARG:HH11	26:AJ:143:ASN:ND2	1.93	0.67
27:AE:159:THR:OG1	27:AE:227:VAL:HG23	1.93	0.67
30:AF:25:THR:HG21	30:AF:42:LYS:HG3	0.67	0.67
34:AQ:19:ALA:CB	34:AQ:80:GLN:HE21	2.06	0.67
38:Cz:18:LEU:HD21	38:Cz:180:VAL:HA	1.74	0.67
38:Cz:29:LEU:HD11	38:Cz:173:LYS:H	1.57	0.67
38:Cz:110:PHE:CD2	38:Cz:133:LYS:HB3	2.29	0.67
38:Cz:208:SER:C	38:Cz:209:THR:O	2.34	0.67
39:Cq:94:ASP:O	39:Cq:98:ILE:HD12	1.93	0.67
41:CO:118:MET:HE1	52:CS:169:THR:N	2.09	0.67
41:CO:185:VAL:O	41:CO:188:LYS:HB2	1.95	0.67
42:CL:79:GLU:CD	42:CL:79:GLU:N	2.52	0.67
42:CL:126:LEU:HD23	42:CL:136:LYS:HB3	1.76	0.67
42:CL:129:ARG:CZ	61:Ch:115:PRO:HG2	2.13	0.67
44:CM:6:PHE:O	44:CM:11:ARG:CZ	2.42	0.67
45:Ca:91:ALA:O	45:Ca:93:ASN:HB2	1.92	0.67
50:CR:68:LEU:HD12	50:CR:69:ALA:CA	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:184:ILE:O	50:CR:188:LEU:HD12	1.93	0.67
52:CS:29:ARG:C	53:CT:150:LEU:HG	2.19	0.67
53:CT:91:VAL:CB	53:CT:96:ILE:HD11	2.25	0.67
54:CP:30:ARG:NH2	54:CP:62:ARG:NH2	2.42	0.67
54:CP:32:THR:OG1	54:CP:91:LEU:HD23	1.94	0.67
60:Cr:20:ARG:O	60:Cr:21:ASN:OD1	2.12	0.67
60:Cr:28:GLU:OE1	60:Cr:29:PRO:CD	2.35	0.67
78:Co:93:LEU:H	78:Co:93:LEU:CD2	2.07	0.67
81:CE:54:ILE:C	81:CE:62:MET:HE2	2.19	0.67
82:CG:143:VAL:HA	82:CG:146:LEU:HD23	1.71	0.67
85:A5:2099:G:H2'	85:A5:2100:A:O4'	1.95	0.67
12:AR:99:ASP:CB	12:AR:119:VAL:HG12	2.22	0.67
14:AT:85:ASN:HB3	14:AT:88:MET:HB2	1.76	0.67
24:Ae:1:LYS:C	24:Ae:2:VAL:HG22	2.19	0.67
24:Ae:49:PHE:O	24:Ae:51:LYS:N	2.27	0.67
27:AE:194:VAL:HG22	27:AE:211:LYS:O	1.95	0.67
28:AC:173:LYS:HE2	28:AC:173:LYS:C	2.18	0.67
29:AG:131:ARG:CD	29:AG:131:ARG:HG3	2.15	0.67
30:AF:99:ILE:HD13	30:AF:171:GLU:OE1	1.93	0.67
31:AH:143:ARG:HE	32:AW:53:ILE:CG2	1.99	0.67
34:AQ:50:LYS:CE	34:AQ:117:ARG:HD2	2.25	0.67
34:AQ:78:VAL:HG12	34:AQ:82:TYR:CE2	2.29	0.67
36:B2:125:C:H5'	36:B2:125:C:H6	1.60	0.67
36:B2:532:C:H2'	36:B2:533:A:H5'	1.75	0.67
39:Cq:255:THR:HG21	84:Cv:46:LEU:HD23	1.74	0.67
41:CO:188:LYS:HZ1	41:CO:189:ILE:H	1.40	0.67
46:CN:10:LEU:CD1	70:Ci:48:CYS:SG	2.83	0.67
46:CN:172:ARG:HH21	46:CN:174:LEU:HD12	1.52	0.67
47:CI:16:PRO:CD	47:CI:128:ARG:NH1	2.57	0.67
48:CD:76:CYS:SG	48:CD:109:LEU:CD1	2.82	0.67
49:CQ:61:LEU:HD13	49:CQ:82:VAL:HG22	1.74	0.67
51:CA:28:ARG:HB3	51:CA:123:ARG:HG2	1.74	0.67
51:CA:77:ILE:HD12	51:CA:128:ARG:HH21	1.57	0.67
53:CT:125:TRP:NE1	53:CT:126:VAL:CB	2.58	0.67
59:CZ:73:LYS:CE	59:CZ:75:TYR:CD1	2.78	0.67
63:CB:40:PRO:O	63:CB:187:GLY:CA	2.42	0.67
63:CB:140:GLU:OE1	63:CB:144:LYS:CG	2.42	0.67
63:CB:257:TRP:HD1	63:CB:257:TRP:O	1.77	0.67
63:CB:311:ASP:CG	63:CB:312:LYS:N	2.51	0.67
66:Cd:27:ILE:HG23	66:Cd:32:ARG:NH1	2.09	0.67
67:Ce:129:LEU:HD23	67:Ce:130:ARG:HA	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Ci:42:ASP:OD1	70:Ci:42:ASP:C	2.38	0.67
74:CC:146:GLU:CG	74:CC:175:LYS:HE2	2.23	0.67
83:Ct:17:HIS:CE1	83:Ct:23:VAL:HG23	2.30	0.67
85:A5:2409:U:C5	85:A5:2783:A:N1	2.63	0.67
1:Az:126:LEU:HD11	1:Az:156:MET:HG3	1.77	0.67
1:Az:448:GLN:HE21	1:Az:448:GLN:C	2.03	0.67
2:Ag:88:ARG:HD3	2:Ag:97:THR:OG1	1.95	0.67
6:AX:40:PRO:HB3	6:AX:81:ILE:CD1	2.15	0.67
13:AP:49:LEU:HD13	13:AP:51:ARG:NE	1.97	0.67
14:AT:94:ARG:NH1	14:AT:94:ARG:HG3	2.10	0.67
16:AA:141:ASN:HD21	17:AV:29:HIS:CA	2.06	0.67
16:AA:186:ARG:HD3	16:AA:186:ARG:O	1.93	0.67
23:AD:18:LYS:O	23:AD:18:LYS:CD	2.41	0.67
23:AD:201:LYS:C	23:AD:203:PRO:HD2	2.12	0.67
23:AD:216:GLU:O	23:AD:217:ILE:HG13	1.94	0.67
26:AJ:35:TYR:C	26:AJ:37:LEU:N	2.42	0.67
26:AJ:50:LEU:CD1	26:AJ:102:ILE:HD13	2.22	0.67
28:AC:66:LEU:O	28:AC:70:VAL:HG23	1.94	0.67
29:AG:41:LEU:HD21	29:AG:45:TRP:HZ3	1.09	0.67
30:AF:28:VAL:CG2	30:AF:110:GLN:HG2	2.24	0.67
31:AH:60:ILE:CG2	31:AH:92:VAL:HG22	2.25	0.67
33:AI:108:PRO:O	33:AI:111:GLN:HG2	1.94	0.67
36:B2:1522:A:C2	36:B2:1523:C:C6	2.82	0.67
37:BC:37:A:H2'	37:BC:38:C:C5'	2.25	0.67
38:Cz:26:ARG:CB	38:Cz:28:PHE:H	2.08	0.67
38:Cz:150:GLU:CA	38:Cz:154:THR:HG22	2.15	0.67
39:Cq:206:ILE:O	39:Cq:206:ILE:HG23	1.94	0.67
39:Cq:251:LEU:HD23	84:Cv:54:VAL:CG1	2.25	0.67
42:CL:70:VAL:CG1	42:CL:157:VAL:HB	2.24	0.67
42:CL:105:LYS:O	70:Ci:19:LYS:HA	1.94	0.67
43:CV:36:ASN:HD22	43:CV:67:LYS:HG2	1.60	0.67
44:CM:33:GLN:OE1	80:CH:61:TRP:CD1	2.48	0.67
46:CN:22:LEU:HD21	82:CG:80:ILE:HD11	1.77	0.67
50:CR:124:TYR:OH	85:A5:2666:U:OP2	2.11	0.67
52:CS:71:SER:HB3	52:CS:73:LEU:C	2.19	0.67
53:CT:143:THR:C	53:CT:144:ASN:O	2.31	0.67
55:CU:60:VAL:CB	55:CU:76:VAL:H	2.08	0.67
56:CX:40:ILE:CD1	82:CG:50:ASP:HA	2.23	0.67
59:CZ:16:GLY:O	59:CZ:17:ARG:C	2.33	0.67
59:CZ:90:PRO:HD2	59:CZ:91:LEU:N	2.08	0.67
60:Cr:119:ARG:HG2	81:CE:112:MET:HE1	1.73	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:117:ARG:HD3	63:CB:177:LYS:HD2	1.76	0.67
65:Cc:28:VAL:HG21	65:Cc:33:GLN:HE21	1.60	0.67
69:Cg:9:ARG:HE	85:A5:2441:C:H4'	1.60	0.67
71:Cj:56:ARG:HB3	71:Cj:57:ASN:OD1	1.95	0.67
73:Cl:23:ILE:CD1	73:Cl:37:TYR:H	2.08	0.67
74:CC:211:TYR:O	74:CC:231:ASN:HA	1.95	0.67
81:CE:46:ARG:HD3	81:CE:47:ASN:N	2.10	0.67
81:CE:229:GLU:O	81:CE:231:GLU:N	2.27	0.67
82:CG:229:ARG:HG2	82:CG:233:ILE:HG13	1.76	0.67
1:Az:398:ILE:O	1:Az:398:ILE:HG13	1.94	0.67
1:Az:504:VAL:CG1	1:Az:812:CYS:SG	2.83	0.67
1:Az:616:ASP:OD2	1:Az:621:GLU:CB	2.43	0.67
1:Az:628:LEU:HD23	1:Az:631:ARG:HH22	1.05	0.67
2:Ag:298:LEU:HD11	2:Ag:310:TRP:HB2	1.75	0.67
3:AU:71:GLY:O	3:AU:72:GLU:C	2.37	0.67
7:AM:71:GLU:O	7:AM:72:HIS:C	2.38	0.67
8:AS:113:ARG:HH22	13:AP:114:HIS:CE1	2.11	0.67
10:AN:25:TRP:CD1	21:Ab:83:GLN:HB2	2.29	0.67
13:AP:98:ASN:HD21	13:AP:120:SER:HB2	1.60	0.67
14:AT:21:PHE:CD1	14:AT:22:LEU:HD23	2.30	0.67
18:AY:7:ILE:HD11	18:AY:43:LYS:HB3	1.72	0.67
23:AD:127:MET:HG2	23:AD:154:ASP:OD2	1.94	0.67
26:AJ:130:ILE:CG2	26:AJ:135:ILE:HD11	2.21	0.67
27:AE:85:GLY:N	27:AE:88:ASP:OD2	2.21	0.67
29:AG:14:LYS:HZ2	29:AG:123:GLY:HA3	0.71	0.67
29:AG:162:LEU:HG	29:AG:170:ARG:CB	2.25	0.67
30:AF:112:LEU:HD23	30:AF:116:ILE:CD1	2.22	0.67
30:AF:154:LEU:HD12	30:AF:154:LEU:C	2.19	0.67
32:AW:7:LEU:HD23	32:AW:34:ILE:HG12	1.74	0.67
35:Ah:173:GLY:O	35:Ah:174:GLY:C	2.37	0.67
38:Cz:24:LYS:HD2	38:Cz:28:PHE:O	1.95	0.67
38:Cz:160:LYS:HE2	38:Cz:161:LYS:H	1.60	0.67
39:Cq:215:PHE:HZ	83:Cs:56:ILE:CG2	2.08	0.67
39:Cq:246:LYS:HE2	83:Ct:63:VAL:CG1	2.25	0.67
41:CO:177:LEU:CA	44:CM:130:LEU:HD23	2.20	0.67
45:Ca:28:HIS:ND1	45:Ca:32:ARG:HG3	2.10	0.67
45:Ca:87:ARG:O	45:Ca:92:LYS:HD2	1.94	0.67
46:CN:49:ARG:O	46:CN:50:ARG:HB2	1.92	0.67
47:CI:106:ALA:C	47:CI:108:ALA:CB	2.65	0.67
48:CD:31:TYR:OH	48:CD:35:ARG:NH1	2.28	0.67
51:CA:122:ASP:OD2	51:CA:125:LYS:CD	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:137:ILE:O	51:CA:138:SER:HB3	1.93	0.67
51:CA:144:LYS:HE3	51:CA:160:SER:HB2	1.77	0.67
53:CT:29:THR:OG1	53:CT:30:TYR:HE2	1.72	0.67
53:CT:127:GLN:HE21	53:CT:127:GLN:HA	1.52	0.67
54:CP:8:PRO:HG2	54:CP:9:GLU:H	1.59	0.67
57:CY:91:ASN:C	57:CY:93:THR:H	2.02	0.67
62:Cb:30:GLU:N	62:Cb:30:GLU:OE1	2.27	0.67
63:CB:142:GLY:HA3	63:CB:147:GLU:HB2	1.77	0.67
66:Cd:83:ARG:O	66:Cd:114:PHE:HE2	1.75	0.67
68:Cf:3:GLY:HA3	81:CE:276:ALA:HB1	1.74	0.67
68:Cf:34:TYR:O	68:Cf:35:ALA:HB2	1.94	0.67
70:Ci:43:MET:CE	82:CG:173:LEU:HD21	1.95	0.67
71:Cj:12:ARG:HB3	71:Cj:12:ARG:NH1	2.10	0.67
74:CC:307:LYS:HB2	74:CC:310:HIS:CE1	2.29	0.67
74:CC:322:LEU:HD22	74:CC:336:ARG:NH1	2.10	0.67
79:CJ:136:ARG:NH1	79:CJ:155:HIS:HA	2.09	0.67
80:CH:1:MET:C	80:CH:2:LYS:CG	2.61	0.67
81:CE:181:LEU:CD2	81:CE:268:GLN:HG2	2.22	0.67
81:CE:224:LYS:C	81:CE:226:ARG:NH1	2.52	0.67
82:CG:163:PRO:CB	82:CG:166:LEU:HD11	2.24	0.67
83:Ct:41:PRO:HA	83:Ct:44:PRO:HG3	1.77	0.67
1:Az:154:VAL:CG1	1:Az:358:LEU:HD21	2.24	0.67
1:Az:594:LYS:HE3	1:Az:856:ASP:HB2	1.77	0.67
1:Az:825:PHE:HE2	1:Az:849:PRO:HD2	0.65	0.67
2:Ag:48:ASP:OD2	2:Ag:49:GLU:N	2.28	0.67
2:Ag:87:LEU:HB2	2:Ag:101:PHE:CD1	2.30	0.67
4:AK:84:HIS:HD2	7:AM:27:ILE:CG1	2.07	0.67
5:AO:128:ARG:HH22	15:AB:72:ALA:CB	2.08	0.67
12:AR:1:MET:C	12:AR:1:MET:H2	1.90	0.67
15:AB:19:LYS:O	15:AB:19:LYS:CG	2.42	0.67
15:AB:148:ASN:ND2	15:AB:148:ASN:H	1.93	0.67
15:AB:188:LEU:HD22	15:AB:212:VAL:HG21	1.77	0.67
17:AV:15:ARG:O	17:AV:24:ILE:HG22	1.93	0.67
23:AD:145:GLN:HG3	23:AD:146:ARG:N	2.10	0.67
25:Af:95:ARG:HD3	25:Af:96:LYS:N	2.10	0.67
27:AE:102:ILE:CD1	27:AE:236:ILE:HD12	2.24	0.67
27:AE:260:GLN:N	27:AE:260:GLN:OE1	2.28	0.67
28:AC:117:ARG:CZ	28:AC:117:ARG:CB	2.70	0.67
28:AC:192:LEU:HD21	28:AC:227:ARG:HG2	1.76	0.67
30:AF:154:LEU:CD1	30:AF:155:CYS:SG	2.83	0.67
34:AQ:50:LYS:HA	34:AQ:53:GLU:CG	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:58:THR:CA	38:Cz:153:SER:HB2	2.18	0.67
39:Cq:279:ALA:N	39:Cq:280:PRO:CD	2.57	0.67
41:CO:131:PRO:O	41:CO:132:THR:OG1	2.13	0.67
43:CV:33:GLY:HA3	43:CV:69:LYS:CD	2.25	0.67
47:CI:80:CYS:SG	47:CI:147:HIS:ND1	2.67	0.67
48:CD:69:ILE:HG22	53:CT:31:MET:CG	2.24	0.67
53:CT:146:LYS:O	53:CT:147:GLU:OE2	2.13	0.67
53:CT:156:TYR:CD2	53:CT:156:TYR:C	2.72	0.67
60:Cr:125:MET:O	60:Cr:126:VAL:HG22	1.95	0.67
63:CB:160:ILE:HD13	63:CB:190:VAL:HG13	1.75	0.67
63:CB:189:THR:CG2	63:CB:192:GLU:CG	2.73	0.67
63:CB:260:ALA:O	63:CB:261:ARG:HG2	1.94	0.67
63:CB:298:LEU:HA	63:CB:300:LYS:HG3	1.76	0.67
64:CF:226:HIS:HB3	64:CF:229:GLU:HG2	1.77	0.67
67:Ce:7:LEU:HD11	67:Ce:74:PHE:CD1	2.30	0.67
68:Cf:12:ALA:O	68:Cf:97:ILE:HG23	1.95	0.67
68:Cf:42:TYR:CE2	81:CE:284:HIS:HA	2.30	0.67
74:CC:17:SER:O	74:CC:18:SER:CB	2.43	0.67
78:Co:55:ILE:CD1	78:Co:55:ILE:C	2.64	0.67
82:CG:87:LEU:HG	82:CG:92:ALA:HB2	1.75	0.67
85:A5:741:C:H42	85:A5:923:C:N4	1.93	0.67
85:A5:2370:A:H5'	85:A5:2370:A:C8	2.30	0.67
1:Az:41:CYS:HA	1:Az:49:ALA:HB2	1.77	0.67
1:Az:154:VAL:CA	1:Az:205:ILE:CD1	2.73	0.67
1:Az:264:ARG:O	1:Az:288:THR:HG22	1.94	0.67
1:Az:283:LYS:HA	1:Az:284:LYS:NZ	2.10	0.67
1:Az:766:LYS:HG3	1:Az:792:GLU:HB3	1.75	0.67
2:Ag:145:GLU:N	2:Ag:145:GLU:OE1	2.28	0.67
5:AO:17:LEU:HD22	15:AB:30:TRP:HE1	1.59	0.67
6:AX:3:LYS:O	6:AX:4:CYS:O	2.13	0.67
7:AM:70:ALA:CB	7:AM:71:GLU:OE2	2.41	0.67
10:AN:125:LEU:CD2	10:AN:129:TYR:CZ	2.78	0.67
11:AL:118:ARG:O	11:AL:119:ASP:CB	2.43	0.67
12:AR:1:MET:HB3	12:AR:2:GLY:N	2.05	0.67
12:AR:17:ILE:HG22	12:AR:69:ILE:CD1	2.04	0.67
14:AT:31:PRO:CG	14:AT:102:ARG:CG	2.73	0.67
14:AT:85:ASN:HB2	14:AT:88:MET:O	1.95	0.67
15:AB:115:LYS:O	15:AB:118:GLN:HG3	1.95	0.67
16:AA:23:THR:O	16:AA:24:HIS:C	2.36	0.67
16:AA:185:MET:O	16:AA:187:GLY:N	2.28	0.67
18:AY:111:LYS:NZ	18:AY:115:LYS:NZ	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:216:GLU:O	23:AD:217:ILE:CG1	2.43	0.67
24:Ae:45:VAL:CA	24:Ae:47:PRO:CD	2.66	0.67
29:AG:4:ASN:HA	29:AG:15:LEU:CD2	2.24	0.67
29:AG:163:ASN:O	29:AG:164:LYS:HB3	1.94	0.67
31:AH:35:ASP:OD1	31:AH:36:LEU:N	2.27	0.67
33:AI:142:SER:CB	33:AI:143:LYS:CB	2.29	0.67
33:AI:145:ILE:HA	33:AI:148:LYS:HD3	1.77	0.67
34:AQ:98:LYS:HE3	34:AQ:99:TYR:CE2	2.30	0.67
35:Ah:150:GLU:O	35:Ah:151:PHE:CD1	2.48	0.67
36:B2:141:A:H61	36:B2:177:G:H21	1.42	0.67
38:Cz:26:ARG:CD	38:Cz:210:MET:HG3	2.25	0.67
38:Cz:147:LYS:HA	38:Cz:147:LYS:CE	2.20	0.67
39:Cq:6:ARG:CG	39:Cq:10:LYS:CG	2.68	0.67
39:Cq:103:LEU:O	39:Cq:106:LYS:HE3	1.95	0.67
39:Cq:159:GLN:HB2	39:Cq:162:LYS:HE3	1.76	0.67
40:CK:113:ALA:O	40:CK:116:MET:CG	2.32	0.67
41:CO:27:VAL:CG1	41:CO:98:ALA:C	2.67	0.67
42:CL:76:PHE:CZ	42:CL:117:LEU:HD21	2.30	0.67
42:CL:126:LEU:HD21	61:Ch:117:ARG:HH11	1.59	0.67
42:CL:167:ARG:CZ	42:CL:170:THR:OG1	2.43	0.67
44:CM:32:ASP:O	44:CM:33:GLN:C	2.36	0.67
44:CM:77:TRP:HE1	44:CM:82:ILE:HG21	1.59	0.67
47:CI:191:ILE:HG22	47:CI:192:PRO:HD2	1.77	0.67
47:CI:206:LEU:HA	47:CI:209:TRP:HB3	1.77	0.67
49:CQ:103:LEU:CG	49:CQ:123:PHE:CE2	2.53	0.67
59:CZ:134:LEU:CD1	69:Cg:98:GLU:OE2	2.43	0.67
63:CB:160:ILE:CD1	63:CB:190:VAL:HG13	2.25	0.67
63:CB:291:TYR:CD1	63:CB:292:LEU:HB3	2.30	0.67
65:Cc:21:VAL:CG1	65:Cc:99:PRO:HB3	2.23	0.67
81:CE:53:GLY:C	81:CE:63:TYR:CB	2.65	0.67
82:CG:164:ILE:HG12	82:CG:168:VAL:HG23	1.74	0.67
85:A5:3894:A:H61	85:A5:4566:U:H3	1.42	0.67
1:Az:55:ARG:HD2	1:Az:56:PHE:HB2	1.77	0.66
1:Az:325:SER:O	1:Az:326:GLU:C	2.37	0.66
1:Az:420:LEU:CD2	1:Az:420:LEU:H	2.06	0.66
1:Az:709:LEU:HD13	1:Az:716:ARG:HD2	1.76	0.66
5:AO:43:HIS:O	5:AO:43:HIS:CG	2.47	0.66
5:AO:106:LYS:HZ2	20:Aa:69:VAL:HG13	1.60	0.66
8:AS:137:LYS:HA	36:B2:1521:C:C5	2.29	0.66
9:Ad:22:ARG:HH12	23:AD:16:ILE:HG21	1.60	0.66
11:AL:7:GLU:CG	11:AL:8:ARG:N	2.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:82:MET:CE	11:AL:85:THR:HG21	2.23	0.66
13:AP:13:ARG:C	13:AP:14:LYS:CG	2.68	0.66
13:AP:109:PRO:O	13:AP:112:ILE:HG13	1.94	0.66
14:AT:90:SER:C	14:AT:91:HIS:HD2	2.03	0.66
15:AB:98:THR:O	15:AB:232:HIS:CE1	2.48	0.66
20:Aa:21:ILE:HG22	20:Aa:22:ARG:N	2.10	0.66
21:Ab:64:CYS:SG	21:Ab:73:LEU:CA	2.80	0.66
28:AC:63:VAL:HG23	28:AC:90:GLU:CG	2.24	0.66
28:AC:65:LYS:O	28:AC:273:LEU:HD22	1.94	0.66
28:AC:66:LEU:HD13	28:AC:93:ILE:CD1	2.17	0.66
28:AC:117:ARG:NH2	28:AC:117:ARG:CB	2.43	0.66
31:AH:51:ILE:CD1	31:AH:176:VAL:HA	2.26	0.66
33:AI:79:ILE:CG2	33:AI:103:LEU:HB2	2.24	0.66
33:AI:112:TRP:HH2	33:AI:117:TYR:HH	1.39	0.66
38:Cz:157:PHE:HB2	38:Cz:165:LEU:HD11	1.76	0.66
39:Cq:95:LEU:HD22	39:Cq:199:TYR:CE2	2.30	0.66
41:CO:122:ALA:CA	52:CS:161:ARG:CB	2.73	0.66
42:CL:8:MET:C	42:CL:10:LEU:CD2	2.67	0.66
43:CV:33:GLY:HA3	43:CV:69:LYS:HD2	1.76	0.66
43:CV:72:LEU:HA	43:CV:75:LYS:NZ	2.11	0.66
45:Ca:47:LYS:O	45:Ca:48:TYR:C	2.34	0.66
47:CI:71:CYS:SG	47:CI:158:LYS:CE	2.74	0.66
51:CA:31:ALA:H	51:CA:123:ARG:HH21	1.43	0.66
55:CU:27:HIS:NE2	55:CU:114:TYR:HB3	2.10	0.66
55:CU:107:LYS:HE2	55:CU:107:LYS:H	1.60	0.66
56:CX:62:ARG:HH12	87:A8:135:C:H4'	1.60	0.66
58:CW:1:MET:SD	63:CB:367:PHE:HB2	2.35	0.66
58:CW:14:TYR:HB3	58:CW:15:PRO:HD2	1.75	0.66
58:CW:99:GLU:O	58:CW:102:LYS:N	2.28	0.66
59:CZ:92:ASP:HB3	59:CZ:117:LYS:HZ3	1.60	0.66
60:Cr:119:ARG:HH12	81:CE:112:MET:HE2	1.50	0.66
63:CB:293:ILE:HG12	63:CB:297:LYS:HA	1.77	0.66
64:CF:132:MET:HE2	64:CF:132:MET:CA	2.20	0.66
67:Ce:22:ARG:HH11	67:Ce:31:ILE:HG21	1.51	0.66
68:Cf:51:TYR:CD2	68:Cf:53:ALA:CB	2.78	0.66
68:Cf:100:ARG:O	68:Cf:101:ILE:HG23	1.94	0.66
70:CI:78:GLY:CA	70:CI:79:THR:N	2.58	0.66
74:CC:7:LEU:HD21	74:CC:21:ASN:CB	2.24	0.66
74:CC:230:LEU:HD12	74:CC:239:LYS:CD	2.25	0.66
74:CC:232:VAL:HG22	74:CC:252:TRP:HZ3	1.59	0.66
85:A5:1995:G:H2'	85:A5:1996:C:C6	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:79:TYR:CD2	1:Az:351:LEU:HD12	2.19	0.66
1:Az:160:MET:HE3	1:Az:178:PHE:HZ	1.48	0.66
1:Az:189:ILE:CG2	1:Az:203:ILE:CG1	2.72	0.66
1:Az:231:MET:HE3	1:Az:232:TYR:CZ	2.30	0.66
1:Az:393:PRO:O	1:Az:393:PRO:CD	2.42	0.66
1:Az:744:ILE:O	1:Az:815:ASP:HB3	1.95	0.66
1:Az:753:GLU:CB	1:Az:782:PHE:CD1	2.62	0.66
2:Ag:194:TYR:OH	2:Ag:235:ILE:HD11	1.95	0.66
10:AN:13:GLN:CB	10:AN:14:SER:O	2.43	0.66
14:AT:11:GLN:CD	14:AT:62:ARG:NE	2.53	0.66
14:AT:77:LYS:CD	14:AT:92:PHE:CE2	2.77	0.66
14:AT:99:VAL:HG23	14:AT:100:ALA:N	2.09	0.66
15:AB:42:ARG:HH22	15:AB:232:HIS:HA	1.60	0.66
18:AY:17:LEU:HD13	27:AE:64:ILE:HG12	1.77	0.66
18:AY:54:VAL:CG1	18:AY:76:TYR:C	2.68	0.66
18:AY:55:ILE:HG12	18:AY:75:ILE:HG12	0.70	0.66
22:Ac:65:ALA:C	22:Ac:66:ARG:HG2	2.20	0.66
23:AD:163:PRO:HA	23:AD:166:TYR:HD2	1.60	0.66
27:AE:259:LYS:O	27:AE:260:GLN:CD	2.38	0.66
29:AG:195:LYS:CD	36:B2:126:G:H5'	2.19	0.66
30:AF:36:GLN:O	30:AF:37:ASP:CB	2.43	0.66
30:AF:127:ARG:O	30:AF:127:ARG:HG2	1.94	0.66
31:AH:64:VAL:HG13	31:AH:68:GLN:OE1	1.94	0.66
34:AQ:33:LYS:HG3	34:AQ:69:ARG:HG2	1.75	0.66
35:Ah:158:ILE:HA	35:Ah:161:PRO:HG3	1.76	0.66
35:Ah:291:ASP:HA	35:Ah:294:LYS:HG3	1.75	0.66
36:B2:852:G:C3'	36:B2:853:C:H5''	2.24	0.66
38:Cz:28:PHE:CD1	38:Cz:30:GLU:HG2	2.30	0.66
38:Cz:90:LEU:CD2	38:Cz:124:LEU:HD11	2.25	0.66
40:CK:40:LYS:HD2	40:CK:40:LYS:N	2.10	0.66
41:CO:14:HIS:CE1	41:CO:119:VAL:HG13	2.30	0.66
41:CO:121:PRO:CD	41:CO:122:ALA:N	2.57	0.66
42:CL:41:ALA:HA	42:CL:44:ARG:HD2	1.77	0.66
42:CL:55:ILE:HD12	42:CL:96:ILE:HG12	1.77	0.66
42:CL:115:GLN:HA	42:CL:115:GLN:NE2	2.07	0.66
45:Ca:24:LYS:HG3	45:Ca:25:HIS:H	1.58	0.66
45:Ca:48:TYR:CA	49:CQ:156:PRO:HG3	2.24	0.66
45:Ca:79:TRP:CZ2	45:Ca:118:PRO:HB2	2.28	0.66
47:CI:9:TYR:OH	47:CI:98:ARG:O	2.09	0.66
48:CD:42:ASN:ND2	53:CT:67:VAL:C	2.42	0.66
49:CQ:187:LYS:HG3	49:CQ:188:ASN:H	1.56	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:30:ARG:NH1	51:CA:33:ASP:CG	2.53	0.66
51:CA:67:TYR:HD1	82:CG:46:GLN:CB	2.08	0.66
52:CS:41:LYS:HG2	52:CS:61:ILE:HG12	1.76	0.66
54:CP:46:LYS:HD3	54:CP:46:LYS:C	2.21	0.66
54:CP:105:LYS:HB2	54:CP:107:LEU:CD2	2.24	0.66
55:CU:33:ILE:HG12	55:CU:96:LEU:CD2	2.25	0.66
56:CX:81:LEU:HD22	56:CX:129:ARG:HH11	1.58	0.66
63:CB:282:LYS:HB3	63:CB:333:LEU:HD21	1.76	0.66
64:CF:182:TYR:HB3	64:CF:200:ARG:CG	2.25	0.66
67:Ce:5:ARG:HG3	67:Ce:93:LYS:CG	2.24	0.66
67:Ce:57:ASN:OD1	67:Ce:57:ASN:C	2.34	0.66
69:Cg:25:THR:CB	69:Cg:26:PRO:HD2	2.17	0.66
74:CC:236:ASN:OD1	74:CC:236:ASN:C	2.38	0.66
81:CE:66:LYS:HG3	81:CE:67:ALA:N	2.10	0.66
1:Az:155:LEU:HD12	1:Az:185:VAL:HG21	1.77	0.66
2:Ag:88:ARG:HG2	2:Ag:97:THR:HG21	1.78	0.66
2:Ag:172:LYS:HZ3	2:Ag:192:THR:HG22	1.58	0.66
5:AO:62:VAL:HG21	5:AO:72:TYR:CZ	2.30	0.66
5:AO:133:THR:O	15:AB:107:ARG:CZ	2.43	0.66
8:AS:34:LYS:CA	8:AS:103:LEU:CD2	2.73	0.66
11:AL:58:LYS:O	11:AL:64:GLY:HA3	1.95	0.66
11:AL:71:ARG:CG	11:AL:73:LEU:HG	2.25	0.66
13:AP:53:GLN:CB	13:AP:56:LEU:HD12	2.26	0.66
15:AB:63:LYS:O	15:AB:63:LYS:HD3	1.95	0.66
16:AA:183:LEU:CB	16:AA:189:ILE:HD11	2.23	0.66
18:AY:87:PRO:HD2	18:AY:87:PRO:O	1.95	0.66
20:Aa:22:ARG:NH2	20:Aa:27:ALA:O	2.27	0.66
23:AD:74:GLN:NE2	23:AD:75:LYS:CE	2.57	0.66
24:Ae:30:GLY:H	26:AJ:38:ARG:NH2	1.88	0.66
24:Ae:31:ARG:CA	26:AJ:38:ARG:HG2	2.24	0.66
25:Af:85:TYR:O	25:Af:86:THR:HG22	1.94	0.66
28:AC:64:THR:CG2	28:AC:90:GLU:HG3	2.26	0.66
28:AC:84:PHE:CZ	28:AC:262:THR:CG2	2.79	0.66
30:AF:113:VAL:HG13	30:AF:114:ASN:N	2.08	0.66
33:AI:206:LYS:CD	33:AI:207:GLY:N	2.56	0.66
34:AQ:15:ARG:HH12	34:AQ:20:THR:HG21	1.61	0.66
34:AQ:134:GLY:HA2	34:AQ:141:TYR:CD1	2.30	0.66
36:B2:531:A:C2	36:B2:554:A:N7	2.64	0.66
39:Cq:198:ILE:O	83:Cs:42:PHE:CE1	2.47	0.66
39:Cq:271:ASP:C	39:Cq:275:PHE:CD2	2.71	0.66
45:Ca:48:TYR:CA	49:CQ:156:PRO:CG	2.72	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:93:ASN:HD22	45:Ca:94:LYS:CA	2.08	0.66
48:CD:233:PRO:O	48:CD:235:MET:N	2.28	0.66
49:CQ:61:LEU:HD11	49:CQ:139:LEU:O	1.95	0.66
49:CQ:76:GLU:O	49:CQ:77:ASN:HB2	1.94	0.66
49:CQ:187:LYS:CG	49:CQ:188:ASN:N	2.57	0.66
49:CQ:187:LYS:HZ1	49:CQ:188:ASN:HD22	1.38	0.66
50:CR:1:MET:O	50:CR:4:LEU:CD2	2.43	0.66
53:CT:134:PRO:CB	53:CT:135:PRO:HD3	2.25	0.66
55:CU:24:ASP:HB3	55:CU:111:GLU:CG	2.25	0.66
55:CU:50:ASN:O	55:CU:50:ASN:CG	2.38	0.66
55:CU:90:TYR:CZ	55:CU:94:ASN:ND2	2.64	0.66
60:Cr:3:ALA:HB2	60:Cr:44:ILE:H	1.60	0.66
60:Cr:122:LYS:O	60:Cr:126:VAL:CG2	2.43	0.66
63:CB:51:ALA:HA	63:CB:323:TYR:CD1	2.30	0.66
66:Cd:85:ARG:CA	66:Cd:114:PHE:HZ	2.09	0.66
67:Ce:5:ARG:CG	67:Ce:6:PRO:HD3	2.23	0.66
68:Cf:76:ARG:NE	68:Cf:85:ARG:HD2	2.09	0.66
74:CC:182:LYS:C	74:CC:183:VAL:O	2.33	0.66
78:Co:76:ASN:CA	78:Co:78:ARG:HB2	2.22	0.66
79:CJ:145:LYS:HE3	86:A7:44:C:C5'	2.26	0.66
81:CE:153:LEU:O	81:CE:158:ARG:CB	2.44	0.66
82:CG:21:LYS:O	82:CG:22:GLN:O	2.12	0.66
82:CG:36:PRO:O	82:CG:37:LYS:CB	2.41	0.66
83:Ct:19:ASP:OD1	84:Cv:2:ARG:HD3	1.95	0.66
1:Az:236:PHE:CZ	1:Az:273:PHE:CE2	2.84	0.66
1:Az:238:ALA:HB1	1:Az:239:LYS:HB2	1.77	0.66
5:AO:19:PRO:CG	5:AO:27:VAL:HG22	2.15	0.66
5:AO:51:GLU:OE2	15:AB:28:LYS:HE2	1.95	0.66
7:AM:89:VAL:HG12	7:AM:90:GLY:N	2.11	0.66
10:AN:129:TYR:O	10:AN:134:VAL:HG13	1.96	0.66
13:AP:77:LYS:C	13:AP:78:THR:HG23	2.20	0.66
14:AT:76:THR:C	14:AT:95:GLY:H	1.98	0.66
14:AT:95:GLY:O	14:AT:96:SER:O	2.14	0.66
15:AB:125:VAL:HG21	15:AB:169:MET:HG3	1.76	0.66
15:AB:146:ARG:N	15:AB:146:ARG:HH11	1.93	0.66
16:AA:127:PRO:CB	16:AA:153:PRO:HG2	2.22	0.66
16:AA:193:HIS:ND1	16:AA:194:PRO:HD3	2.09	0.66
21:Ab:61:THR:HG23	21:Ab:62:VAL:H	1.59	0.66
24:Ae:5:SER:OG	24:Ae:6:LEU:N	2.24	0.66
27:AE:192:ILE:CD1	27:AE:238:LEU:HD22	2.25	0.66
27:AE:258:ALA:O	27:AE:259:LYS:CB	2.33	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:70:VAL:CG1	28:AC:97:PHE:CD2	2.74	0.66
28:AC:102:LEU:HG	28:AC:131:GLY:C	2.21	0.66
28:AC:207:ALA:O	28:AC:210:PRO:CG	2.43	0.66
29:AG:38:ALA:CB	29:AG:45:TRP:O	2.42	0.66
30:AF:25:THR:HG21	30:AF:42:LYS:CB	2.19	0.66
31:AH:44:ASN:HB3	31:AH:68:GLN:HE22	1.60	0.66
36:B2:907:G:C6	36:B2:908:A:C6	2.84	0.66
38:Cz:29:LEU:HB3	38:Cz:60:ARG:NH2	2.10	0.66
39:Cq:51:ALA:HB2	39:Cq:91:THR:CG2	2.25	0.66
39:Cq:105:ASN:O	39:Cq:106:LYS:CB	2.43	0.66
39:Cq:132:PRO:O	39:Cq:133:GLU:OE2	2.13	0.66
40:CK:4:LYS:O	40:CK:5:PHE:HB2	1.95	0.66
42:CL:129:ARG:O	42:CL:130:LYS:HB3	1.95	0.66
46:CN:56:LYS:HE2	46:CN:59:TYR:CZ	2.29	0.66
48:CD:190:PHE:HE2	48:CD:192:ALA:HB2	1.60	0.66
49:CQ:97:LYS:O	49:CQ:118:GLY:CA	2.44	0.66
49:CQ:99:LYS:HZ3	49:CQ:119:LYS:HD2	1.54	0.66
52:CS:2:LYS:CE	52:CS:39:VAL:HB	2.26	0.66
57:CY:22:PRO:HD2	57:CY:25:ILE:CB	2.26	0.66
58:CW:46:PRO:HB2	58:CW:54:LEU:CD2	2.21	0.66
60:Cr:78:VAL:HG21	60:Cr:82:ILE:HA	1.75	0.66
60:Cr:119:ARG:CA	60:Cr:122:LYS:HG2	2.26	0.66
61:Ch:16:GLU:O	61:Ch:20:GLN:HG2	1.96	0.66
63:CB:133:TYR:CG	63:CB:136:LYS:HD2	2.29	0.66
63:CB:260:ALA:C	63:CB:261:ARG:HG3	2.21	0.66
63:CB:381:THR:CG2	63:CB:383:GLU:CG	2.73	0.66
67:Ce:110:ALA:O	67:Ce:113:GLU:HG2	1.96	0.66
71:Cj:76:HIS:HB3	71:Cj:79:ARG:NE	2.11	0.66
80:CH:106:GLN:HG2	80:CH:107:GLU:CA	2.18	0.66
81:CE:83:LYS:NZ	81:CE:86:GLU:CA	2.58	0.66
81:CE:281:ILE:HD12	81:CE:281:ILE:C	2.20	0.66
82:CG:41:ILE:O	82:CG:41:ILE:HG22	1.94	0.66
82:CG:104:PRO:CA	82:CG:105:GLU:HG3	2.26	0.66
82:CG:143:VAL:CB	82:CG:146:LEU:HD21	2.24	0.66
1:Az:113:SER:HB2	1:Az:499:PHE:HD2	1.60	0.66
1:Az:585:GLU:O	1:Az:736:ALA:HB1	1.96	0.66
1:Az:710:HIS:CD2	1:Az:712:ASP:H	2.14	0.66
1:Az:762:VAL:CG1	1:Az:766:LYS:HZ3	2.00	0.66
2:Ag:57:ARG:HH21	34:AQ:98:LYS:HA	1.61	0.66
2:Ag:173:LEU:HD22	2:Ag:189:ILE:HA	1.77	0.66
2:Ag:175:LYS:HD2	2:Ag:177:TRP:CZ2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:40:VAL:HG21	4:AK:45:VAL:H	1.59	0.66
5:AO:17:LEU:CD2	15:AB:30:TRP:NE1	2.56	0.66
8:AS:39:ARG:CD	14:AT:38:LYS:NZ	2.57	0.66
8:AS:94:LYS:HB3	8:AS:95:TYR:C	2.19	0.66
12:AR:77:GLU:HG3	12:AR:80:ARG:HH21	1.60	0.66
13:AP:22:LEU:HA	13:AP:25:LEU:HB2	1.76	0.66
14:AT:85:ASN:HD21	14:AT:91:HIS:CD2	2.13	0.66
16:AA:193:HIS:CB	16:AA:194:PRO:HD2	2.26	0.66
21:Ab:1:MET:H2	21:Ab:2:PRO:HD3	1.61	0.66
23:AD:2:ALA:HB1	23:AD:4:GLN:N	2.09	0.66
23:AD:74:GLN:HE21	23:AD:75:LYS:CD	2.08	0.66
23:AD:226:GLN:O	23:AD:227:LYS:HB2	1.94	0.66
26:AJ:171:GLY:O	26:AJ:174:LYS:N	2.29	0.66
28:AC:163:VAL:CB	28:AC:164:PRO:HD2	2.26	0.66
35:Ah:172:ARG:NE	35:Ah:173:GLY:HA2	2.10	0.66
38:Cz:7:ARG:CG	38:Cz:9:THR:HG22	2.24	0.66
38:Cz:114:GLU:O	38:Cz:117:ILE:HG22	1.95	0.66
39:Cq:257:TYR:CZ	84:Cv:42:VAL:HG13	2.29	0.66
39:Cq:259:PHE:CG	39:Cq:264:LYS:HD2	2.30	0.66
44:CM:77:TRP:CB	44:CM:82:ILE:CD1	2.71	0.66
52:CS:140:PRO:O	52:CS:141:ALA:C	2.37	0.66
53:CT:68:THR:HG1	53:CT:71:ALA:C	2.04	0.66
53:CT:150:LEU:O	53:CT:151:LEU:N	2.28	0.66
54:CP:27:LYS:CE	54:CP:63:TYR:CD1	2.74	0.66
54:CP:49:LYS:HE3	54:CP:92:LEU:HD21	1.76	0.66
57:CY:124:LYS:C	57:CY:127:GLN:HG2	2.21	0.66
59:CZ:39:SER:HB2	59:CZ:77:TYR:CD2	2.29	0.66
60:Cr:27:THR:C	60:Cr:31:ASN:ND2	2.53	0.66
60:Cr:28:GLU:O	60:Cr:30:ASN:N	2.28	0.66
60:Cr:47:LYS:HA	60:Cr:66:ARG:HB2	1.77	0.66
60:Cr:51:VAL:CG1	60:Cr:117:ILE:HD12	2.00	0.66
63:CB:301:ASN:HB3	63:CB:311:ASP:HA	1.77	0.66
63:CB:333:LEU:HD23	63:CB:337:VAL:CG1	2.24	0.66
67:Ce:50:LYS:CE	68:Cf:20:ASN:ND2	2.54	0.66
74:CC:110:ARG:CD	74:CC:113:ARG:HE	2.09	0.66
74:CC:143:ARG:HH11	74:CC:143:ARG:CG	2.06	0.66
74:CC:144:ILE:HG22	74:CC:147:VAL:HB	1.78	0.66
78:Co:103:VAL:HG12	78:Co:104:ILE:O	1.95	0.66
79:CJ:87:LEU:CD2	79:CJ:166:PHE:CZ	2.75	0.66
81:CE:44:CYS:O	81:CE:45:SER:HB2	1.94	0.66
81:CE:138:ARG:HH22	81:CE:169:ALA:C	2.01	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:215:LEU:O	82:CG:219:VAL:HG23	1.95	0.66
83:Cs:15:ILE:HG13	84:Cu:5:ALA:HB1	1.78	0.66
1:Az:512:LYS:HG3	1:Az:569:PRO:O	1.94	0.66
1:Az:516:ASP:OD2	1:Az:568:ILE:CG2	2.44	0.66
1:Az:543:GLU:CD	1:Az:576:VAL:HB	2.20	0.66
1:Az:740:LEU:O	1:Az:820:LEU:HB2	1.96	0.66
4:AK:33:PRO:O	4:AK:34:GLU:CB	2.42	0.66
6:AX:100:VAL:HG12	6:AX:125:VAL:CG2	2.21	0.66
6:AX:108:LYS:HB2	6:AX:110:HIS:CE1	2.31	0.66
10:AN:4:MET:HE2	10:AN:124:ARG:HH22	1.61	0.66
13:AP:75:VAL:HG12	13:AP:76:VAL:N	2.11	0.66
14:AT:112:MET:SD	14:AT:127:GLY:HA2	2.35	0.66
17:AV:31:SER:HB3	17:AV:57:GLY:N	2.11	0.66
19:AZ:103:HIS:NE2	19:AZ:105:ALA:CB	2.58	0.66
21:Ab:12:PRO:HD2	21:Ab:13:GLU:HG3	1.78	0.66
23:AD:219:PRO:O	23:AD:220:THR:O	2.13	0.66
24:Ae:44:ASN:CB	24:Ae:45:VAL:CG2	2.72	0.66
25:Af:126:CYS:O	25:Af:128:ALA:N	2.28	0.66
27:AE:71:LYS:HE3	27:AE:75:LYS:HA	1.78	0.66
29:AG:19:ASP:O	29:AG:20:ASP:CB	2.43	0.66
29:AG:30:LYS:HD2	29:AG:30:LYS:N	2.08	0.66
31:AH:75:ILE:HG23	31:AH:76:GLN:N	2.11	0.66
35:Ah:152:SER:HB3	35:Ah:155:ARG:CB	2.23	0.66
38:Cz:46:ASP:O	38:Cz:48:ARG:HD3	1.95	0.66
39:Cq:143:ILE:HD11	39:Cq:160:LEU:HD11	1.76	0.66
54:CP:108:ASP:OD1	54:CP:108:ASP:C	2.29	0.66
62:Cb:25:ARG:HB3	62:Cb:27:GLN:HE22	1.60	0.66
62:Cb:72:ILE:HG23	62:Cb:73:LYS:N	2.09	0.66
63:CB:21:ARG:CD	63:CB:274:TYR:CD2	2.79	0.66
65:Cc:12:GLU:HB2	65:Cc:13:SER:OG	1.96	0.66
69:Cg:69:LYS:N	69:Cg:72:LYS:CE	2.58	0.66
74:CC:332:ALA:O	74:CC:336:ARG:HG3	1.95	0.66
77:Cp:49:ARG:CB	77:Cp:55:TRP:CE3	2.78	0.66
78:Co:66:ILE:CD1	78:Co:85:ILE:C	2.67	0.66
79:CJ:135:GLY:HA2	79:CJ:157:ILE:HD11	1.78	0.66
80:CH:150:ASP:OD2	80:CH:150:ASP:N	2.29	0.66
82:CG:22:GLN:O	82:CG:23:GLU:O	2.14	0.66
82:CG:73:ARG:HB3	82:CG:74:LEU:CD1	2.26	0.66
85:A5:118:C:N3	85:A5:153:G:N1	2.44	0.66
1:Az:27:HIS:NE2	1:Az:28:VAL:HG23	2.10	0.66
2:Ag:150:TRP:HZ2	12:AR:33:ARG:CB	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:265:ILE:HG13	2:Ag:266:ILE:H	1.60	0.66
5:AO:63:LYS:O	5:AO:64:ALA:HB2	1.94	0.66
6:AX:52:LEU:CD1	6:AX:53:GLU:CG	2.74	0.66
8:AS:81:ASP:OD2	8:AS:95:TYR:CD2	2.48	0.66
8:AS:82:TRP:CD1	36:B2:1567:G:C4	2.83	0.66
12:AR:21:TYR:CG	12:AR:71:ILE:HD13	2.28	0.66
12:AR:119:VAL:HG23	12:AR:119:VAL:O	1.96	0.66
15:AB:31:TYR:HE1	15:AB:94:LYS:N	1.92	0.66
16:AA:75:SER:HB2	16:AA:122:LEU:HD23	1.76	0.66
18:AY:7:ILE:HD11	18:AY:43:LYS:CG	2.11	0.66
22:Ac:50:VAL:CG2	30:AF:142:SER:CB	2.73	0.66
23:AD:145:GLN:CD	35:Ah:167:GLY:H	2.03	0.66
24:Ae:46:VAL:O	24:Ae:47:PRO:CB	2.40	0.66
27:AE:259:LYS:HG2	27:AE:260:GLN:OE1	1.96	0.66
28:AC:213:LEU:HD13	28:AC:240:THR:HG23	1.77	0.66
29:AG:162:LEU:HD22	29:AG:172:LYS:HZ1	1.60	0.66
30:AF:42:LYS:CB	30:AF:46:ALA:N	2.59	0.66
31:AH:146:VAL:O	32:AW:49:GLU:HB2	1.95	0.66
32:AW:17:ALA:CB	32:AW:25:VAL:CG1	2.74	0.66
36:B2:1551:U:O4	36:B2:1579:A:C2	2.49	0.66
39:Cq:26:LYS:CE	39:Cq:94:ASP:H	2.09	0.66
39:Cq:125:ALA:HB2	39:Cq:156:SER:CA	2.26	0.66
39:Cq:137:PHE:O	39:Cq:140:ALA:N	2.28	0.66
39:Cq:242:ILE:HG23	39:Cq:246:LYS:HE3	1.77	0.66
40:CK:23:GLY:O	40:CK:24:ALA:HB2	1.96	0.66
41:CO:26:GLN:HE21	52:CS:166:ARG:CG	2.06	0.66
42:CL:37:LYS:HD3	42:CL:37:LYS:N	2.10	0.66
43:CV:73:ARG:C	43:CV:74:LYS:HG2	2.21	0.66
44:CM:89:THR:HG1	44:CM:92:ALA:HB2	1.61	0.66
49:CQ:19:LYS:O	49:CQ:19:LYS:NZ	2.29	0.66
49:CQ:24:TYR:HB3	74:CC:283:LYS:CG	2.26	0.66
52:CS:80:ILE:HG23	52:CS:95:ARG:CG	2.26	0.66
53:CT:111:GLU:CD	53:CT:115:LYS:HE3	2.20	0.66
54:CP:131:ARG:NH1	54:CP:137:ASN:ND2	2.33	0.66
55:CU:84:LYS:HE3	55:CU:102:VAL:HG12	1.78	0.66
64:CF:26:ALA:O	64:CF:30:ILE:HD13	1.95	0.66
64:CF:60:GLU:O	64:CF:64:MET:CG	2.29	0.66
66:Cd:90:ARG:HA	66:Cd:103:TYR:O	1.95	0.66
68:Cf:11:PHE:CE1	68:Cf:26:ALA:HB1	2.30	0.66
68:Cf:28:LEU:HD11	68:Cf:101:ILE:HD11	1.76	0.66
69:Cg:76:ARG:CG	69:Cg:77:ALA:N	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:Cl:2:SER:HB3	73:Cl:5:LYS:HG2	1.66	0.66
74:CC:350:ARG:HD2	74:CC:350:ARG:N	2.07	0.66
81:CE:72:LYS:O	81:CE:73:TYR:C	2.39	0.66
82:CG:143:VAL:C	82:CG:146:LEU:CG	2.55	0.66
82:CG:159:HIS:HD1	82:CG:185:LYS:N	1.94	0.66
85:A5:1446:C:H2'	85:A5:1447:C:H5'	1.78	0.66
85:A5:1753:G:H2'	85:A5:1755:C:H5''	1.77	0.66
85:A5:4881:U:H2'	85:A5:4882:U:N1	2.09	0.66
1:Az:10:ARG:HH22	1:Az:465:PRO:CG	2.08	0.66
1:Az:40:VAL:HA	1:Az:43:ALA:HB2	1.78	0.66
1:Az:308:LYS:HB3	1:Az:311:GLU:HG3	1.78	0.66
1:Az:347:GLY:O	1:Az:351:LEU:HG	1.96	0.66
1:Az:531:ASP:HB3	1:Az:534:VAL:CG1	2.26	0.66
2:Ag:12:LYS:CD	2:Ag:13:GLY:N	2.51	0.66
4:AK:16:PHE:HE2	4:AK:79:LEU:CA	2.09	0.66
4:AK:36:ALA:O	4:AK:38:LYS:N	2.28	0.66
7:AM:42:LEU:HD11	7:AM:69:LEU:HD23	1.77	0.66
10:AN:13:GLN:HB2	10:AN:14:SER:O	1.96	0.66
10:AN:76:LYS:HD2	10:AN:77:SER:N	2.11	0.66
11:AL:49:GLU:HB2	11:AL:116:CYS:SG	2.36	0.66
11:AL:137:THR:OG1	36:B2:373:G:OP1	2.11	0.66
12:AR:99:ASP:HB3	12:AR:119:VAL:CG1	2.26	0.66
13:AP:49:LEU:HD13	13:AP:51:ARG:NH2	2.11	0.66
15:AB:76:ASN:ND2	15:AB:76:ASN:O	2.29	0.66
15:AB:87:ILE:CD1	15:AB:220:LYS:HZ3	2.08	0.66
18:AY:102:THR:CG2	18:AY:107:ARG:CD	2.68	0.66
22:Ac:48:GLY:HA3	30:AF:145:ARG:CG	2.23	0.66
23:AD:48:ILE:HG23	23:AD:86:LEU:HG	1.74	0.66
23:AD:196:GLY:O	23:AD:199:GLY:CA	2.44	0.66
26:AJ:124:HIS:O	26:AJ:125:HIS:C	2.38	0.66
27:AE:258:ALA:O	27:AE:259:LYS:HB2	1.96	0.66
27:AE:259:LYS:C	27:AE:260:GLN:OE1	2.39	0.66
28:AC:260:VAL:O	28:AC:261:PHE:HB2	1.96	0.66
30:AF:79:HIS:O	30:AF:81:ARG:N	2.29	0.66
31:AH:29:GLU:CD	31:AH:86:LYS:HE3	2.20	0.66
31:AH:117:PRO:HG2	31:AH:120:ARG:NE	2.11	0.66
31:AH:122:LEU:HD11	31:AH:123:THR:CG2	2.26	0.66
31:AH:143:ARG:NE	32:AW:53:ILE:HG12	2.11	0.66
33:AI:110:ARG:NH2	33:AI:124:LYS:CD	2.58	0.66
35:Ah:152:SER:OG	35:Ah:154:ASP:N	2.29	0.66
38:Cz:210:MET:N	38:Cz:210:MET:CG	2.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:268:PHE:O	39:Cq:272:PRO:CG	2.43	0.66
41:CO:190:ASP:CG	41:CO:194:GLU:H	2.03	0.66
44:CM:38:VAL:HG21	44:CM:50:MET:HE2	1.77	0.66
48:CD:73:MET:HE1	86:A7:114:U:H4'	1.76	0.66
48:CD:113:PHE:HE1	48:CD:142:PHE:CE1	2.13	0.66
49:CQ:31:LEU:O	49:CQ:31:LEU:HD22	1.96	0.66
49:CQ:143:ARG:C	49:CQ:145:GLY:N	2.51	0.66
49:CQ:151:HIS:ND1	49:CQ:164:LYS:C	2.52	0.66
50:CR:21:LYS:O	50:CR:52:ARG:O	2.13	0.66
52:CS:7:LEU:H	52:CS:7:LEU:CD2	2.01	0.66
53:CT:125:TRP:NE1	53:CT:126:VAL:CG2	2.58	0.66
60:Cr:26:SER:C	60:Cr:31:ASN:HD22	2.04	0.66
60:Cr:41:ASN:OD1	60:Cr:42:GLY:N	2.28	0.66
60:Cr:54:ALA:HB1	60:Cr:57:GLY:HA2	1.78	0.66
63:CB:53:MET:CG	63:CB:76:VAL:O	2.44	0.66
63:CB:325:GLU:O	63:CB:326:VAL:CG1	2.36	0.66
66:Cd:18:ASN:C	66:Cd:20:VAL:N	2.54	0.66
67:Ce:5:ARG:NE	67:Ce:5:ARG:CA	2.30	0.66
67:Ce:6:PRO:O	67:Ce:7:LEU:O	2.13	0.66
67:Ce:50:LYS:HZ3	68:Cf:20:ASN:ND2	1.93	0.66
70:Ci:68:ARG:NH2	70:Ci:72:PHE:CE2	2.64	0.66
71:Cj:47:TYR:HB3	71:Cj:49:TRP:CD1	2.31	0.66
72:Ck:25:ILE:HG12	72:Ck:34:PHE:CE2	2.30	0.66
74:CC:62:THR:HG22	74:CC:64:ALA:N	2.08	0.66
74:CC:156:ASP:O	74:CC:158:VAL:N	2.28	0.66
76:Cn:22:GLN:HA	76:Cn:25:LYS:HG3	1.78	0.66
77:Cp:4:ARG:HG3	77:Cp:4:ARG:NH1	2.10	0.66
77:Cp:22:LEU:O	77:Cp:26:VAL:HG23	1.96	0.66
81:CE:287:VAL:HG23	81:CE:288:PHE:N	2.10	0.66
82:CG:159:HIS:HD1	82:CG:185:LYS:CA	2.06	0.66
84:Cv:37:ASP:O	84:Cv:41:LYS:HG3	1.96	0.66
5:AO:129:ILE:HG13	20:Aa:65:PRO:CD	2.25	0.66
6:AX:52:LEU:CD1	6:AX:53:GLU:N	2.54	0.66
6:AX:90:CYS:HA	6:AX:93:PHE:HD2	1.60	0.66
8:AS:46:ARG:NE	14:AT:50:GLU:CG	2.58	0.66
8:AS:121:ARG:CG	8:AS:131:VAL:HG13	2.25	0.66
11:AL:40:ILE:HG21	11:AL:44:PHE:HB2	1.78	0.66
14:AT:42:HIS:CE1	14:AT:93:SER:HB3	2.30	0.66
15:AB:49:VAL:CG2	15:AB:65:ARG:NH1	2.59	0.66
16:AA:89:LYS:HB3	16:AA:202:TYR:CZ	2.31	0.66
16:AA:191:ARG:CG	16:AA:193:HIS:HB2	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:112:GLY:C	23:AD:113:LEU:CG	2.65	0.66
25:Af:139:HIS:HB3	25:Af:150:PHE:O	1.96	0.66
26:AJ:134:HIS:CE1	36:B2:562:U:OP1	2.48	0.66
27:AE:86:PHE:CZ	27:AE:87:MET:HE2	2.31	0.66
27:AE:153:LEU:CD1	27:AE:172:PHE:CE2	2.77	0.66
28:AC:138:GLY:HA2	28:AC:241:PHE:CZ	2.24	0.66
32:AW:7:LEU:HD12	32:AW:78:ARG:HH21	1.60	0.66
32:AW:42:MET:HE2	32:AW:48:GLY:O	1.96	0.66
33:AI:182:CYS:SG	36:B2:305:U:C4	2.88	0.66
36:B2:1195:A:H2'	36:B2:1196:A:C8	2.31	0.66
39:Cq:57:LYS:H	39:Cq:60:MET:HG2	1.60	0.66
39:Cq:225:VAL:HG21	84:Cu:55:ILE:HG12	1.78	0.66
40:CK:15:LEU:HD11	40:CK:60:VAL:CG1	2.25	0.66
45:Ca:94:LYS:O	45:Ca:94:LYS:CG	2.43	0.66
46:CN:138:PHE:CA	46:CN:143:ARG:HH21	2.06	0.66
48:CD:254:GLU:HB3	48:CD:255:LYS:HG2	1.77	0.66
50:CR:10:LEU:HD23	50:CR:41:ILE:CD1	2.25	0.66
54:CP:93:HIS:O	54:CP:96:LYS:N	2.28	0.66
56:CX:153:ILE:HD11	61:Ch:33:VAL:HG21	1.76	0.66
58:CW:27:LYS:HE2	58:CW:29:PHE:CE1	2.29	0.66
60:Cr:97:ILE:HG21	60:Cr:110:ALA:HB1	1.77	0.66
63:CB:381:THR:HG21	63:CB:383:GLU:HG3	1.76	0.66
65:Cc:44:LYS:HE3	65:Cc:98:ASP:OD1	1.94	0.66
66:Cd:100:ASN:O	66:Cd:102:LEU:N	2.28	0.66
67:Ce:43:ASN:HD22	67:Ce:46:ARG:HB2	1.61	0.66
72:Ck:24:LYS:CE	72:Ck:67:LYS:CB	2.69	0.66
72:Ck:60:LEU:O	72:Ck:60:LEU:HD12	1.96	0.66
81:CE:140:LEU:HA	81:CE:191:GLN:NE2	2.11	0.66
82:CG:27:VAL:O	82:CG:30:PRO:HD2	1.95	0.66
83:Cs:44:PRO:CD	83:Cs:45:GLY:N	2.56	0.66
1:Az:40:VAL:HG22	1:Az:75:ILE:HG12	1.77	0.66
1:Az:60:ARG:O	1:Az:61:LYS:O	2.13	0.66
1:Az:168:GLN:O	1:Az:168:GLN:HG2	1.96	0.66
1:Az:826:ASP:OD1	1:Az:827:ASN:N	2.29	0.66
2:Ag:246:TYR:N	2:Ag:246:TYR:CD1	2.63	0.66
4:AK:71:LEU:CG	4:AK:76:ILE:HD13	2.25	0.66
4:AK:87:PRO:C	4:AK:89:ILE:H	2.03	0.66
8:AS:58:GLU:OE2	19:AZ:49:LEU:HD13	1.96	0.66
9:Ad:13:LYS:HG2	9:Ad:14:PHE:CE2	2.31	0.66
12:AR:38:ILE:CA	23:AD:211:VAL:HG23	2.21	0.66
13:AP:22:LEU:HD12	13:AP:23:ASP:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:31:PRO:CB	14:AT:33:TRP:CD2	2.77	0.66
17:AV:27:LYS:HE3	28:AC:162:ILE:O	1.96	0.66
17:AV:41:LYS:C	17:AV:43:THR:N	2.52	0.66
18:AY:21:LYS:HD3	18:AY:21:LYS:H	1.61	0.66
22:Ac:34:PHE:O	22:Ac:34:PHE:CD2	2.49	0.66
22:Ac:47:LYS:HG2	22:Ac:48:GLY:N	2.11	0.66
28:AC:138:GLY:CA	28:AC:241:PHE:CZ	2.76	0.66
29:AG:135:PRO:HG2	29:AG:144:LEU:HD23	1.76	0.66
30:AF:76:MET:CE	30:AF:169:ILE:CG2	2.60	0.66
30:AF:122:ARG:HH21	30:AF:193:LYS:HZ1	1.44	0.66
35:Ah:291:ASP:HA	35:Ah:294:LYS:HE3	1.78	0.66
39:Cq:215:PHE:HZ	83:Cs:56:ILE:HG23	1.55	0.66
40:CK:3:PRO:HD2	40:CK:6:ASP:OD2	1.96	0.66
41:CO:190:ASP:OD1	41:CO:194:GLU:CG	2.44	0.66
42:CL:19:GLN:NE2	74:CC:108:TRP:CH2	2.61	0.66
42:CL:57:PRO:HG3	42:CL:75:GLY:C	2.21	0.66
42:CL:174:LYS:NZ	45:Ca:141:GLY:HA2	2.11	0.66
44:CM:110:PHE:CE1	44:CM:114:LYS:HE2	2.30	0.66
45:Ca:119:LYS:C	45:Ca:120:GLN:O	2.30	0.66
46:CN:192:TRP:HA	46:CN:195:ARG:CG	2.25	0.66
47:CI:85:PHE:CD1	47:CI:87:MET:HG3	2.30	0.66
47:CI:105:CYS:O	47:CI:107:GLY:N	2.29	0.66
53:CT:11:THR:CB	53:CT:15:PHE:CE2	2.79	0.66
53:CT:25:VAL:CG1	53:CT:26:PRO:CD	2.74	0.66
59:CZ:105:ALA:HA	59:CZ:108:ARG:CD	2.26	0.66
63:CB:179:HIS:CG	63:CB:344:VAL:HG21	2.31	0.66
65:Cc:102:SER:HB2	65:Cc:104:ILE:CD1	2.25	0.66
67:Ce:6:PRO:CG	67:Ce:93:LYS:CG	2.74	0.66
70:Ci:11:LEU:N	70:Ci:12:ASN:OD1	2.29	0.66
74:CC:5:ARG:CG	74:CC:24:LEU:CB	2.57	0.66
74:CC:12:SER:CB	74:CC:13:GLU:HG2	2.24	0.66
74:CC:22:VAL:CG2	74:CC:258:ARG:HH21	1.95	0.66
74:CC:142:HIS:HE1	74:CC:249:PHE:N	1.68	0.66
74:CC:147:VAL:HG12	74:CC:148:PRO:CD	2.14	0.66
74:CC:232:VAL:CG1	74:CC:260:LEU:HD23	2.26	0.66
78:Co:65:LYS:HB2	78:Co:66:ILE:HD13	1.78	0.66
80:CH:12:ILE:CD1	80:CH:13:PRO:CD	2.61	0.66
81:CE:140:LEU:HD11	81:CE:167:GLN:OE1	1.96	0.66
82:CG:32:PHE:HD1	82:CG:32:PHE:N	1.94	0.66
82:CG:32:PHE:N	82:CG:32:PHE:CD1	2.62	0.66
82:CG:41:ILE:O	82:CG:43:GLN:HG2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:124:GLY:C	82:CG:125:LYS:HD2	2.21	0.66
82:CG:156:VAL:HG12	82:CG:156:VAL:O	1.95	0.66
83:Ct:41:PRO:CD	83:Ct:42:PHE:N	2.56	0.66
1:Az:111:PHE:HB3	1:Az:145:GLN:NE2	2.10	0.65
1:Az:448:GLN:NE2	1:Az:448:GLN:O	2.29	0.65
1:Az:745:TYR:CB	1:Az:815:ASP:HB2	2.26	0.65
3:Au:19:ARG:CG	3:Au:92:HIS:CE1	2.76	0.65
4:AK:3:MET:HG2	4:AK:4:PRO:O	1.97	0.65
5:AO:129:ILE:HD12	20:Aa:44:ILE:HG21	1.78	0.65
7:AM:51:VAL:HA	7:AM:77:ILE:HG22	1.76	0.65
8:AS:8:LYS:CA	19:AZ:49:LEU:CD2	2.75	0.65
15:AB:87:ILE:HG21	15:AB:101:HIS:CG	2.31	0.65
16:AA:172:GLY:HA3	16:AA:203:PHE:CE1	2.31	0.65
18:AY:35:VAL:HG12	18:AY:36:PRO:CD	2.21	0.65
23:AD:212:GLU:CD	23:AD:212:GLU:N	2.48	0.65
25:Af:103:LEU:HD22	25:Af:106:TYR:CE2	2.31	0.65
28:AC:102:LEU:HD23	28:AC:102:LEU:C	2.21	0.65
29:AG:50:VAL:HG11	29:AG:111:LEU:CD2	2.22	0.65
29:AG:131:ARG:N	58:CW:81:ALA:HB3	2.11	0.65
30:AF:91:ARG:CD	34:AQ:46:THR:HG21	2.26	0.65
31:AH:10:LYS:HE3	31:AH:16:PRO:C	2.22	0.65
31:AH:87:PHE:O	31:AH:88:SER:O	2.14	0.65
34:AQ:115:TYR:HD2	34:AQ:116:ASP:H	1.44	0.65
38:Cz:68:LEU:C	38:Cz:116:LEU:HD22	2.21	0.65
39:Cq:111:ALA:CB	39:Cq:183:PHE:CE1	2.79	0.65
39:Cq:199:TYR:CD1	39:Cq:204:LEU:HA	2.28	0.65
39:Cq:207:THR:O	39:Cq:210:THR:OG1	2.12	0.65
40:CK:20:GLY:CA	40:CK:92:ARG:NH2	2.58	0.65
41:CO:21:ALA:N	41:CO:87:MET:HE1	2.10	0.65
41:CO:81:TRP:CE3	41:CO:85:ARG:NE	2.54	0.65
42:CL:55:ILE:HD13	42:CL:120:TYR:CG	2.31	0.65
42:CL:71:ARG:HG2	42:CL:72:ALA:N	2.09	0.65
44:CM:20:HIS:ND1	44:CM:45:VAL:HG22	2.10	0.65
50:CR:63:CYS:O	50:CR:66:ASN:N	2.28	0.65
50:CR:132:PHE:HD1	50:CR:137:ILE:CG1	2.09	0.65
54:CP:29:THR:C	54:CP:32:THR:HG23	2.20	0.65
54:CP:60:PHE:CZ	54:CP:82:ARG:HB2	2.30	0.65
54:CP:95:LEU:HD11	54:CP:148:MET:HE1	1.77	0.65
56:CX:80:PRO:CG	61:Ch:33:VAL:CG2	2.68	0.65
59:CZ:100:VAL:CA	59:CZ:106:LEU:HD21	2.26	0.65
63:CB:24:ARG:O	63:CB:24:ARG:HG2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:84:MET:SD	63:CB:164:ALA:CB	2.84	0.65
66:Cd:54:MET:HE2	66:Cd:62:VAL:CG2	2.26	0.65
67:Ce:37:LYS:HG3	67:Ce:39:ARG:HH22	1.55	0.65
68:Cf:53:ALA:CB	68:Cf:54:LYS:HG2	2.25	0.65
74:CC:58:ALA:O	74:CC:60:HIS:N	2.29	0.65
74:CC:210:ILE:HA	74:CC:230:LEU:O	1.96	0.65
78:Co:38:LYS:HE3	78:Co:42:ASP:OD2	1.96	0.65
78:Co:76:ASN:CA	78:Co:77:CYS:C	2.67	0.65
79:CJ:18:ARG:NH2	79:CJ:139:PHE:HE1	1.86	0.65
79:CJ:55:TYR:CE1	79:CJ:57:VAL:CG2	2.79	0.65
79:CJ:90:ARG:NH1	79:CJ:107:PHE:CA	2.59	0.65
85:A5:1756:U:C4	85:A5:1776:A:C2	2.83	0.65
1:Az:503:PRO:CA	1:Az:549:ALA:HA	2.15	0.65
5:AO:88:LEU:HD22	15:AB:25:PHE:CG	2.30	0.65
5:AO:101:GLY:O	5:AO:104:ARG:CB	2.43	0.65
6:AX:60:LYS:HE2	6:AX:116:PRO:CB	2.26	0.65
9:Ad:5:GLN:C	9:Ad:7:TYR:N	2.48	0.65
11:AL:10:TYR:CD2	33:AI:194:GLU:HG2	2.32	0.65
11:AL:99:TYR:HD2	11:AL:99:TYR:O	1.78	0.65
11:AL:147:LYS:HD3	11:AL:147:LYS:O	1.94	0.65
12:AR:32:LYS:HE2	12:AR:33:ARG:NE	2.11	0.65
13:AP:5:GLU:O	13:AP:6:GLN:HB2	1.96	0.65
13:AP:98:ASN:OD1	13:AP:120:SER:CB	2.43	0.65
15:AB:110:MET:HE1	15:AB:213:ARG:HD2	1.78	0.65
16:AA:109:THR:O	16:AA:110:ASN:HB2	1.95	0.65
19:AZ:85:ARG:CZ	19:AZ:85:ARG:CB	2.70	0.65
23:AD:59:LEU:CD1	23:AD:60:GLY:O	2.44	0.65
26:AJ:82:VAL:CG1	26:AJ:92:MET:HE3	2.26	0.65
27:AE:43:PRO:HD2	27:AE:43:PRO:O	1.96	0.65
27:AE:165:GLU:OE2	27:AE:165:GLU:N	2.30	0.65
27:AE:191:ARG:HD3	27:AE:245:ARG:CB	2.25	0.65
28:AC:76:LYS:HA	28:AC:97:PHE:HE1	1.61	0.65
28:AC:170:TRP:CE2	32:AW:97:ARG:CD	2.79	0.65
29:AG:32:MET:CE	29:AG:100:CYS:O	2.43	0.65
29:AG:50:VAL:CG1	29:AG:111:LEU:CB	2.74	0.65
29:AG:120:ASP:O	29:AG:121:ILE:HD13	1.96	0.65
29:AG:138:ALA:HB2	29:AG:179:LEU:HB2	1.77	0.65
32:AW:104:LEU:HD12	32:AW:106:THR:HG23	1.76	0.65
33:AI:10:LYS:HG3	33:AI:11:ARG:H	1.61	0.65
33:AI:136:ILE:HG23	33:AI:139:LYS:HE2	1.73	0.65
34:AQ:113:ILE:HG13	34:AQ:120:LEU:CD1	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:167:GLY:O	35:Ah:168:LEU:HB2	1.96	0.65
36:B2:664:A:H61	36:B2:1163:C:H42	1.44	0.65
36:B2:1659:U:H3'	36:B2:1660:C:O2	1.96	0.65
38:Cz:49:PHE:CZ	38:Cz:190:LEU:HA	2.29	0.65
42:CL:83:VAL:HG21	42:CL:110:LEU:HD11	1.78	0.65
44:CM:14:TYR:O	44:CM:56:GLN:CG	2.41	0.65
46:CN:175:GLY:O	46:CN:184:ILE:HD11	1.95	0.65
49:CQ:119:LYS:HE3	49:CQ:121:LEU:HD23	1.78	0.65
49:CQ:124:ASP:CG	74:CC:284:MET:CG	2.69	0.65
51:CA:5:ILE:HD13	51:CA:210:PRO:CD	2.24	0.65
51:CA:118:GLU:OE1	51:CA:119:LYS:HG2	1.95	0.65
52:CS:169:THR:HG22	52:CS:170:LYS:HZ1	1.61	0.65
53:CT:91:VAL:HG12	53:CT:92:ARG:H	1.61	0.65
53:CT:144:ASN:HA	53:CT:146:LYS:O	1.97	0.65
58:CW:25:ASP:OD1	58:CW:26:GLY:N	2.29	0.65
58:CW:97:LYS:HG3	58:CW:98:PRO:HD3	1.76	0.65
59:CZ:33:THR:CB	59:CZ:36:ARG:HG3	2.26	0.65
60:Cr:45:HIS:O	60:Cr:45:HIS:ND1	2.29	0.65
61:Ch:81:LEU:HD23	61:Ch:84:ARG:CD	2.25	0.65
63:CB:77:THR:CA	63:CB:78:ILE:HG23	2.26	0.65
65:Cc:59:GLU:OE1	69:Cg:92:LYS:CD	2.44	0.65
66:Cd:21:VAL:O	66:Cd:22:THR:HG23	1.95	0.65
67:Ce:22:ARG:NH1	67:Ce:31:ILE:HG12	2.11	0.65
67:Ce:37:LYS:HG2	67:Ce:39:ARG:NH2	2.10	0.65
68:Cf:6:TRP:HA	68:Cf:104:MET:SD	2.37	0.65
68:Cf:33:VAL:CG1	68:Cf:82:GLY:C	2.45	0.65
70:Ci:33:LEU:CA	70:Ci:38:LYS:HE3	2.26	0.65
70:Ci:79:THR:CB	70:Ci:82:ARG:HG3	2.26	0.65
74:CC:316:LYS:HD2	74:CC:324:ILE:HD11	1.78	0.65
78:Co:65:LYS:C	78:Co:66:ILE:HD12	2.20	0.65
81:CE:56:ARG:CB	81:CE:65:ARG:HH11	1.96	0.65
82:CG:98:LEU:HD11	82:CG:215:LEU:HD21	1.77	0.65
82:CG:190:LEU:HD22	82:CG:190:LEU:H	1.60	0.65
1:Az:748:GLU:O	1:Az:748:GLU:HG2	1.96	0.65
2:Ag:118:ARG:HA	2:Ag:118:ARG:NE	2.03	0.65
3:AU:56:MET:HE1	3:AU:88:LEU:HD23	1.77	0.65
6:AX:108:LYS:HB3	6:AX:110:HIS:HE2	1.60	0.65
8:AS:8:LYS:HB2	8:AS:9:PHE:HD1	0.65	0.65
10:AN:94:LYS:HG2	10:AN:118:ILE:HD13	1.78	0.65
11:AL:71:ARG:HG2	11:AL:73:LEU:HG	1.78	0.65
12:AR:98:VAL:HG12	12:AR:99:ASP:N	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:49:ASP:OD2	14:AT:51:ASN:HB2	1.96	0.65
15:AB:49:VAL:HG22	15:AB:65:ARG:NH1	2.11	0.65
15:AB:147:ASN:O	15:AB:149:GLN:N	2.29	0.65
18:AY:10:ARG:NE	18:AY:24:VAL:CG1	2.40	0.65
23:AD:148:LYS:H	35:Ah:177:ARG:HH22	1.41	0.65
23:AD:202:LYS:CB	23:AD:203:PRO:HD3	2.25	0.65
24:Ae:40:ARG:CA	24:Ae:44:ASN:HB2	2.27	0.65
27:AE:130:PHE:HB2	27:AE:138:HIS:CD2	2.31	0.65
27:AE:159:THR:CB	27:AE:227:VAL:HG23	2.24	0.65
30:AF:110:GLN:O	30:AF:113:VAL:CG1	2.44	0.65
30:AF:115:ALA:CB	30:AF:177:LEU:HD22	2.26	0.65
31:AH:6:ALA:CB	31:AH:10:LYS:NZ	2.59	0.65
33:AI:104:ILE:O	33:AI:105:ASP:CB	2.42	0.65
33:AI:155:ASN:O	33:AI:157:LYS:N	2.27	0.65
33:AI:155:ASN:C	33:AI:155:ASN:OD1	2.36	0.65
38:Cz:120:ILE:O	38:Cz:124:LEU:HB2	1.96	0.65
39:Cq:189:ILE:CG2	39:Cq:201:PRO:HG3	2.22	0.65
40:CK:114:ARG:CA	40:CK:133:LEU:HD12	2.24	0.65
47:CI:105:CYS:C	47:CI:107:GLY:H	2.04	0.65
49:CQ:88:ASP:OD2	49:CQ:108:ARG:HB3	1.97	0.65
49:CQ:157:GLY:C	49:CQ:159:PRO:CD	2.70	0.65
50:CR:10:LEU:CB	50:CR:41:ILE:HD13	2.16	0.65
52:CS:17:LEU:HD23	52:CS:59:GLY:N	2.10	0.65
54:CP:4:TYR:HE1	54:CP:147:GLU:HB2	1.58	0.65
54:CP:30:ARG:CD	54:CP:63:TYR:HE2	2.07	0.65
60:Cr:119:ARG:O	60:Cr:123:PRO:HD3	1.95	0.65
63:CB:314:ILE:HD11	63:CB:330:PHE:CD1	2.31	0.65
66:Cd:75:LYS:NZ	66:Cd:79:ASN:O	2.29	0.65
67:Ce:44:ARG:HD3	67:Ce:52:GLN:HE22	0.78	0.65
68:Cf:33:VAL:HG13	68:Cf:81:SER:O	1.93	0.65
69:Cg:14:ASN:O	69:Cg:14:ASN:CG	2.30	0.65
71:Cj:83:THR:CB	71:Cj:84:PRO:CD	2.62	0.65
72:Ck:25:ILE:HD11	72:Ck:34:PHE:HE2	1.60	0.65
74:CC:6:PRO:N	74:CC:24:LEU:CD2	2.60	0.65
78:Co:76:ASN:HA	78:Co:78:ARG:N	2.11	0.65
80:CH:23:ARG:NH2	80:CH:42:ASN:HA	2.11	0.65
82:CG:104:PRO:HA	82:CG:105:GLU:CD	2.20	0.65
1:Az:113:SER:CB	1:Az:499:PHE:CD2	2.79	0.65
1:Az:223:PHE:HB3	1:Az:344:LEU:HD13	1.79	0.65
3:AU:50:VAL:HG23	3:AU:89:ILE:HG23	1.79	0.65
4:AK:40:VAL:CG2	4:AK:41:PRO:HD3	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:122:VAL:HG12	6:AX:130:LEU:HD11	1.79	0.65
7:AM:67:ALA:CB	25:Af:114:ILE:HG21	2.24	0.65
10:AN:114:ARG:HG2	10:AN:114:ARG:NH2	2.11	0.65
11:AL:8:ARG:CD	33:AI:85:ALA:HB1	2.26	0.65
15:AB:49:VAL:CG2	15:AB:65:ARG:HH12	2.09	0.65
16:AA:159:ILE:HG22	16:AA:159:ILE:O	1.96	0.65
18:AY:7:ILE:HD12	18:AY:43:LYS:HB3	1.66	0.65
19:AZ:99:LEU:CD1	19:AZ:102:LYS:NZ	2.58	0.65
20:Aa:7:ASN:OD1	20:Aa:7:ASN:O	2.13	0.65
21:Ab:81:ARG:HB2	21:Ab:82:LYS:HD3	1.77	0.65
25:Af:108:VAL:HG22	25:Af:114:ILE:CB	2.26	0.65
27:AE:130:PHE:CD2	27:AE:138:HIS:CE1	2.84	0.65
27:AE:259:LYS:O	27:AE:260:GLN:CG	2.45	0.65
29:AG:3:LEU:HD11	29:AG:41:LEU:HD11	1.76	0.65
29:AG:185:LEU:N	29:AG:188:LYS:HE3	2.12	0.65
31:AH:192:PHE:O	31:AH:193:GLN:C	2.40	0.65
38:Cz:74:CYS:HA	38:Cz:84:HIS:CE1	2.31	0.65
38:Cz:174:MET:HB2	38:Cz:179:LEU:HD21	1.79	0.65
39:Cq:81:HIS:CD2	39:Cq:191:GLN:CB	2.75	0.65
39:Cq:81:HIS:HD2	39:Cq:191:GLN:HG3	0.85	0.65
39:Cq:123:VAL:HG23	39:Cq:160:LEU:HD11	1.78	0.65
39:Cq:200:ASN:O	39:Cq:201:PRO:C	2.39	0.65
39:Cq:220:ARG:CZ	39:Cq:220:ARG:HA	2.27	0.65
39:Cq:234:VAL:HG22	84:Cu:1:MET:SD	2.36	0.65
41:CO:127:VAL:O	41:CO:127:VAL:HG12	1.97	0.65
44:CM:34:ASN:O	44:CM:35:ARG:CG	2.43	0.65
48:CD:22:ARG:HG2	48:CD:28:THR:CB	2.26	0.65
48:CD:33:ARG:NH1	48:CD:50:ARG:HH12	1.94	0.65
48:CD:52:ILE:HG23	48:CD:54:ARG:NH1	2.11	0.65
49:CQ:84:GLY:HA2	49:CQ:103:LEU:HD12	1.78	0.65
51:CA:104:VAL:CB	51:CA:107:MET:HE2	2.26	0.65
51:CA:116:LEU:CG	51:CA:126:LEU:HB2	2.26	0.65
51:CA:158:ILE:CG2	51:CA:159:SER:N	2.58	0.65
53:CT:64:VAL:HG13	53:CT:72:VAL:HG13	1.76	0.65
53:CT:154:ILE:HG22	53:CT:155:PRO:HD2	1.76	0.65
54:CP:40:HIS:O	54:CP:41:ILE:C	2.36	0.65
56:CX:60:TYR:HD2	61:Ch:78:TYR:CA	2.09	0.65
57:CY:51:LYS:O	57:CY:70:VAL:O	2.15	0.65
60:Cr:16:PHE:CG	60:Cr:28:GLU:HG2	2.30	0.65
60:Cr:123:PRO:CD	60:Cr:124:VAL:N	2.52	0.65
63:CB:80:GLU:OE1	63:CB:323:TYR:OH	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:17:ARG:HB3	65:Cc:104:ILE:CG2	2.26	0.65
65:Cc:59:GLU:CD	69:Cg:92:LYS:CD	2.69	0.65
65:Cc:81:LEU:CB	65:Cc:91:VAL:CG2	2.74	0.65
69:Cg:79:GLY:C	69:Cg:81:SER:N	2.45	0.65
70:Ci:10:GLY:CA	70:Ci:11:LEU:CD1	2.75	0.65
70:Ci:11:LEU:N	70:Ci:11:LEU:HD12	2.02	0.65
72:Ck:33:LYS:HG2	72:Ck:46:VAL:CG2	2.17	0.65
74:CC:232:VAL:HG22	74:CC:252:TRP:CZ3	2.32	0.65
79:CJ:82:ILE:HG22	79:CJ:130:PHE:HE1	1.61	0.65
80:CH:26:ILE:HG22	80:CH:35:ARG:CG	2.25	0.65
80:CH:110:SER:HB2	80:CH:111:LEU:CA	2.24	0.65
80:CH:168:LYS:O	80:CH:169:ASN:HB2	1.96	0.65
81:CE:31:ASN:N	81:CE:32:LEU:HD22	2.12	0.65
1:Az:322:LYS:HB2	1:Az:322:LYS:NZ	2.08	0.65
1:Az:693:CYS:CA	1:Az:835:VAL:HG13	2.26	0.65
1:Az:813:VAL:HG22	1:Az:814:PHE:H	1.62	0.65
2:Ag:20:GLN:NE2	2:Ag:68:ASP:CG	2.27	0.65
2:Ag:144:ASP:O	2:Ag:145:GLU:HB2	1.97	0.65
3:AU:47:ASN:O	3:AU:47:ASN:ND2	2.30	0.65
10:AN:139:TRP:CZ3	10:AN:141:TYR:N	2.65	0.65
12:AR:31:ASN:ND2	12:AR:55:THR:HG22	2.11	0.65
15:AB:148:ASN:H	15:AB:148:ASN:HD22	1.42	0.65
18:AY:99:LYS:O	18:AY:99:LYS:NZ	2.29	0.65
24:Ae:12:VAL:HA	24:Ae:15:GLN:HG2	1.78	0.65
24:Ae:28:LYS:NZ	24:Ae:28:LYS:CB	2.60	0.65
26:AJ:78:LEU:HD13	26:AJ:92:MET:O	1.96	0.65
26:AJ:125:HIS:CD2	26:AJ:129:LEU:CD1	2.70	0.65
26:AJ:170:PRO:HD2	26:AJ:175:ARG:HH11	1.61	0.65
27:AE:72:ILE:CD1	27:AE:82:TYR:CD2	2.80	0.65
27:AE:259:LYS:NZ	27:AE:260:GLN:OE1	2.29	0.65
29:AG:157:VAL:HG13	29:AG:158:VAL:CA	2.25	0.65
32:AW:90:GLN:N	32:AW:102:ILE:CD1	2.60	0.65
33:AI:7:ASN:C	33:AI:9:HIS:H	2.02	0.65
33:AI:104:ILE:O	33:AI:105:ASP:OD2	2.15	0.65
34:AQ:144:SER:O	34:AQ:145:TYR:HB2	1.96	0.65
36:B2:500:A:O2'	36:B2:501:C:H5'	1.97	0.65
36:B2:698:G:H1	36:B2:732:U:H3	1.41	0.65
38:Cz:29:LEU:HD21	38:Cz:173:LYS:CB	2.27	0.65
40:CK:10:ILE:HG21	40:CK:67:ARG:N	2.10	0.65
42:CL:167:ARG:HH22	42:CL:170:THR:CG2	1.83	0.65
46:CN:65:ARG:HB3	46:CN:127:TYR:CD1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:145:ASN:O	46:CN:149:GLN:HG3	1.96	0.65
48:CD:79:TYR:CB	48:CD:81:HIS:ND1	2.49	0.65
48:CD:115:MET:HE3	48:CD:139:PRO:HB2	1.77	0.65
50:CR:75:HIS:HB3	50:CR:80:LYS:HZ3	1.61	0.65
52:CS:130:GLU:OE1	52:CS:130:GLU:HA	1.95	0.65
56:CX:60:TYR:CD2	61:Ch:84:ARG:NH2	2.63	0.65
63:CB:117:ARG:CZ	63:CB:177:LYS:HE3	2.27	0.65
64:CF:51:TYR:CD1	81:CE:58:SER:CB	2.75	0.65
67:Ce:38:PRO:HD2	67:Ce:38:PRO:O	1.96	0.65
69:Cg:66:ARG:NH1	69:Cg:66:ARG:HB3	2.11	0.65
74:CC:143:ARG:NH2	74:CC:182:LYS:CD	2.56	0.65
74:CC:349:LEU:CD1	74:CC:353:LYS:CE	2.63	0.65
77:Cp:50:ARG:O	77:Cp:51:ALA:CB	2.45	0.65
78:Co:60:ALA:O	78:Co:61:LYS:C	2.40	0.65
81:CE:46:ARG:NH2	81:CE:47:ASN:O	2.29	0.65
81:CE:152:ILE:CG2	81:CE:158:ARG:HA	2.23	0.65
82:CG:105:GLU:OE2	82:CG:105:GLU:N	2.29	0.65
1:Az:393:PRO:HD2	1:Az:418:SER:OG	1.96	0.65
1:Az:571:LYS:CE	1:Az:571:LYS:CA	2.75	0.65
1:Az:845:LYS:CE	1:Az:846:GLU:CG	2.74	0.65
2:Ag:100:ARG:CG	2:Ag:100:ARG:NH1	2.44	0.65
2:Ag:119:GLN:NE2	2:Ag:131:LEU:HG	2.12	0.65
2:Ag:176:VAL:CB	2:Ag:186:THR:HG22	2.18	0.65
2:Ag:203:ASP:OD1	2:Ag:203:ASP:N	2.28	0.65
2:Ag:273:GLU:HA	2:Ag:274:VAL:HG13	1.79	0.65
2:Ag:282:GLU:OE2	2:Ag:283:PRO:N	2.30	0.65
8:AS:7:GLU:OE2	8:AS:7:GLU:N	2.29	0.65
10:AN:13:GLN:CD	21:Ab:21:LYS:HE2	2.21	0.65
11:AL:10:TYR:CD2	11:AL:12:LYS:HE3	2.28	0.65
12:AR:100:PRO:CG	12:AR:119:VAL:CG2	2.73	0.65
13:AP:8:LYS:O	13:AP:11:THR:CG2	2.37	0.65
13:AP:100:LYS:HG2	36:B2:1240:A:H61	1.61	0.65
15:AB:32:ASP:OD1	15:AB:46:LYS:CD	2.45	0.65
16:AA:32:PHE:CD1	16:AA:33:GLN:NE2	2.64	0.65
16:AA:98:PRO:O	16:AA:99:ILE:HG13	1.97	0.65
18:AY:13:MET:HE2	18:AY:14:THR:C	2.20	0.65
18:AY:54:VAL:HG13	18:AY:76:TYR:CA	2.27	0.65
23:AD:157:MET:HE3	23:AD:187:LYS:HD2	1.78	0.65
23:AD:215:ASP:O	23:AD:216:GLU:CB	2.45	0.65
26:AJ:165:TYR:OH	36:B2:561:A:H5'	1.97	0.65
27:AE:182:MET:CE	27:AE:228:ILE:HG21	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:69:LEU:HD22	28:AC:269:PHE:HB3	1.79	0.65
28:AC:130:ILE:CD1	28:AC:159:LYS:HG3	2.27	0.65
31:AH:64:VAL:HG13	31:AH:65:PRO:HD2	1.79	0.65
31:AH:122:LEU:HD12	31:AH:123:THR:H	1.56	0.65
31:AH:163:GLN:HG2	31:AH:164:ASN:N	2.12	0.65
33:AI:154:LYS:O	33:AI:154:LYS:NZ	2.30	0.65
33:AI:191:GLU:N	33:AI:195:LEU:HB2	2.10	0.65
35:Ah:155:ARG:O	35:Ah:158:ILE:N	2.26	0.65
38:Cz:30:GLU:OE2	38:Cz:210:MET:CA	2.45	0.65
44:CM:86:TRP:O	44:CM:92:ALA:HB2	1.96	0.65
44:CM:94:LYS:HG2	85:A5:4872:G:C2	2.32	0.65
44:CM:104:MET:HG2	44:CM:108:ASP:CB	2.27	0.65
47:CI:48:LEU:C	47:CI:48:LEU:CD1	2.70	0.65
47:CI:102:MET:O	47:CI:102:MET:HG2	1.96	0.65
47:CI:105:CYS:O	47:CI:108:ALA:N	2.30	0.65
48:CD:142:PHE:CG	48:CD:171:LEU:HD22	2.31	0.65
49:CQ:99:LYS:HZ1	49:CQ:119:LYS:HD3	0.49	0.65
50:CR:170:ARG:O	50:CR:174:GLU:CB	2.44	0.65
51:CA:23:ARG:HA	51:CA:52:PRO:CD	2.26	0.65
51:CA:205:ASN:CB	51:CA:206:PRO:HD3	2.27	0.65
51:CA:245:ARG:N	51:CA:245:ARG:CD	2.59	0.65
52:CS:16:CYS:C	52:CS:59:GLY:CA	2.70	0.65
53:CT:36:LYS:CD	53:CT:37:GLY:N	2.55	0.65
53:CT:68:THR:OG1	53:CT:71:ALA:CA	2.45	0.65
55:CU:108:GLU:HA	55:CU:110:TYR:OH	1.96	0.65
55:CU:125:GLU:OE1	55:CU:125:GLU:HA	1.97	0.65
57:CY:82:ILE:CG2	57:CY:83:GLU:N	2.59	0.65
58:CW:87:LEU:C	58:CW:90:ILE:HB	2.18	0.65
60:Cr:72:LYS:O	60:Cr:72:LYS:NZ	2.29	0.65
60:Cr:112:ARG:CD	67:Ce:90:MET:HE2	2.25	0.65
60:Cr:123:PRO:C	60:Cr:126:VAL:H	2.05	0.65
63:CB:108:GLU:CB	63:CB:137:TRP:CE2	2.78	0.65
63:CB:115:LYS:O	63:CB:115:LYS:CE	2.30	0.65
63:CB:141:ASP:OD2	63:CB:142:GLY:N	2.30	0.65
65:Cc:59:GLU:OE2	69:Cg:92:LYS:HE3	1.97	0.65
67:Ce:5:ARG:C	67:Ce:93:LYS:HE2	2.21	0.65
74:CC:85:HIS:ND1	74:CC:85:HIS:O	2.29	0.65
74:CC:286:ASN:O	74:CC:287:THR:CB	2.45	0.65
77:Cp:48:LYS:HD3	77:Cp:49:ARG:H	1.61	0.65
79:CJ:17:ILE:HD13	79:CJ:83:LEU:HD12	1.70	0.65
80:CH:90:TYR:CE1	80:CH:184:LYS:HG2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:83:LYS:HZ2	81:CE:86:GLU:CA	2.09	0.65
81:CE:157:HIS:ND1	81:CE:184:VAL:HG22	2.12	0.65
85:A5:1367:C:H3'	85:A5:1367:C:C6	2.31	0.65
1:Az:183:GLU:HG3	39:Cq:139:GLN:NE2	2.09	0.65
1:Az:195:GLY:O	1:Az:196:GLU:C	2.36	0.65
1:Az:300:VAL:HG23	1:Az:301:PHE:N	2.12	0.65
1:Az:740:LEU:HD13	1:Az:741:MET:N	2.12	0.65
10:AN:60:VAL:HG23	10:AN:60:VAL:O	1.97	0.65
11:AL:113:LEU:HD11	11:AL:120:VAL:CB	2.27	0.65
12:AR:44:LYS:HE3	12:AR:47:ARG:CZ	2.23	0.65
12:AR:92:ASP:O	12:AR:93:GLN:CB	2.43	0.65
13:AP:41:GLN:NE2	13:AP:45:LEU:CG	2.40	0.65
13:AP:41:GLN:HB2	13:AP:84:ILE:HG12	1.77	0.65
15:AB:77:ASP:O	15:AB:79:VAL:HG13	1.97	0.65
22:Ac:44:ARG:CZ	22:Ac:58:LEU:HD22	2.27	0.65
22:Ac:47:LYS:NZ	30:AF:141:VAL:CG1	2.53	0.65
23:AD:53:THR:HG21	23:AD:91:VAL:HB	1.78	0.65
23:AD:179:GLN:NE2	23:AD:179:GLN:O	2.30	0.65
24:Ae:38:TYR:CB	26:AJ:29:LEU:HD22	2.27	0.65
27:AE:48:LEU:HD11	27:AE:70:ILE:CD1	2.26	0.65
29:AG:16:ILE:HG21	29:AG:45:TRP:CH2	2.30	0.65
30:AF:39:ILE:HG23	30:AF:68:ILE:HD13	1.79	0.65
31:AH:85:LYS:O	31:AH:85:LYS:CD	2.35	0.65
31:AH:190:PRO:HB2	31:AH:191:GLU:HG2	1.79	0.65
33:AI:62:VAL:CG2	33:AI:75:LYS:NZ	2.52	0.65
33:AI:144:LYS:O	33:AI:145:ILE:CB	2.45	0.65
36:B2:127:C:OP1	36:B2:180:G:C2	2.50	0.65
36:B2:742:U:C5	36:B2:743:U:C4	2.84	0.65
36:B2:839:C:H2'	36:B2:841:G:H5'	1.78	0.65
38:Cz:147:LYS:O	38:Cz:151:VAL:HG23	1.96	0.65
41:CO:27:VAL:HG11	41:CO:98:ALA:HB1	1.77	0.65
41:CO:57:PHE:O	41:CO:72:HIS:HE1	1.80	0.65
41:CO:72:HIS:HB2	41:CO:74:ARG:HH12	1.60	0.65
42:CL:16:LYS:CG	85:A5:46:U:H5''	2.24	0.65
42:CL:77:SER:OG	42:CL:80:GLU:CG	2.44	0.65
44:CM:5:ARG:O	44:CM:11:ARG:NH1	2.30	0.65
44:CM:63:LYS:O	44:CM:63:LYS:NZ	2.30	0.65
45:Ca:60:HIS:CD2	85:A5:4354:U:C5	2.85	0.65
45:Ca:73:VAL:HG23	45:Ca:108:TYR:CE1	1.72	0.65
46:CN:36:LEU:HD22	46:CN:109:HIS:CD2	2.17	0.65
46:CN:192:TRP:O	46:CN:195:ARG:CG	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:94:GLU:OE2	49:CQ:94:GLU:N	2.30	0.65
49:CQ:154:LYS:CE	49:CQ:155:ALA:O	2.44	0.65
50:CR:7:GLN:CD	50:CR:7:GLN:N	2.55	0.65
50:CR:8:LYS:HG2	50:CR:22:VAL:HG21	1.79	0.65
50:CR:24:LEU:CD2	50:CR:32:ILE:HG13	2.27	0.65
50:CR:34:ASN:OD1	50:CR:34:ASN:N	2.30	0.65
51:CA:23:ARG:O	51:CA:24:LYS:HE2	1.97	0.65
51:CA:245:ARG:HD3	51:CA:245:ARG:C	2.13	0.65
54:CP:4:TYR:OH	54:CP:18:ARG:N	2.30	0.65
55:CU:37:ALA:CA	55:CU:65:ARG:NH1	2.51	0.65
57:CY:104:VAL:CG1	57:CY:105:VAL:N	2.59	0.65
59:CZ:16:GLY:O	59:CZ:19:SER:CB	2.44	0.65
63:CB:126:LYS:C	63:CB:127:LYS:HG3	2.22	0.65
63:CB:381:THR:HG21	63:CB:383:GLU:CG	2.26	0.65
64:CF:89:LEU:HD22	64:CF:90:ALA:H	1.60	0.65
64:CF:105:VAL:HG22	64:CF:135:ILE:HD13	1.77	0.65
64:CF:132:MET:HA	64:CF:132:MET:CE	2.20	0.65
66:Cd:77:ILE:HD11	85:A5:2370:A:C4	2.30	0.65
66:Cd:101:LYS:HB2	66:Cd:102:LEU:CD1	2.17	0.65
67:Ce:7:LEU:HD13	67:Ce:73:GLY:HA3	1.78	0.65
67:Ce:24:GLN:NE2	67:Ce:27:ARG:CG	2.59	0.65
69:Cg:107:LEU:HD22	69:Cg:108:LYS:HE2	1.77	0.65
71:Cj:84:PRO:C	71:Cj:86:PRO:HD2	2.22	0.65
74:CC:116:ASN:OD1	74:CC:116:ASN:N	2.30	0.65
79:CJ:169:LYS:HD2	79:CJ:170:TYR:CD2	2.32	0.65
81:CE:115:TYR:C	81:CE:117:PRO:HD3	2.22	0.65
81:CE:159:GLY:O	81:CE:275:PHE:N	2.30	0.65
81:CE:264:ILE:HG21	81:CE:267:LEU:HB2	1.77	0.65
82:CG:76:VAL:C	82:CG:237:TRP:HE3	2.04	0.65
84:Cu:3:TYR:HB3	84:Cu:7:TYR:HE2	1.61	0.65
85:A5:4522:G:O2'	85:A5:4525:C:OP2	2.14	0.65
1:Az:110:ASP:OD2	1:Az:112:SER:CB	2.45	0.65
1:Az:112:SER:C	1:Az:114:GLU:H	1.93	0.65
1:Az:634:TYR:CE2	1:Az:639:TYR:HE2	2.14	0.65
1:Az:746:LEU:HD21	1:Az:785:LYS:CE	2.26	0.65
1:Az:751:CYS:SG	1:Az:756:VAL:N	2.70	0.65
2:Ag:173:LEU:HD21	2:Ag:189:ILE:HG23	1.78	0.65
4:AK:53:LYS:HG3	4:AK:54:SER:N	2.11	0.65
5:AO:30:VAL:CG2	5:AO:32:HIS:CD2	2.80	0.65
5:AO:88:LEU:HD13	15:AB:25:PHE:CG	2.32	0.65
11:AL:17:PHE:CD1	11:AL:18:GLN:O	2.49	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:110:GLU:OE2	13:AP:110:GLU:N	2.30	0.65
15:AB:105:LEU:HD11	15:AB:213:ARG:CG	2.27	0.65
15:AB:209:ASP:O	15:AB:210:VAL:HB	1.97	0.65
16:AA:5:LEU:CD1	16:AA:6:ASP:N	2.51	0.65
16:AA:39:TYR:N	16:AA:50:ASN:ND2	2.44	0.65
20:Aa:58:VAL:O	20:Aa:59:PHE:O	2.15	0.65
23:AD:216:GLU:O	23:AD:217:ILE:HD12	1.97	0.65
26:AJ:110:LEU:HD11	26:AJ:135:ILE:HD12	1.76	0.65
28:AC:170:TRP:CH2	32:AW:97:ARG:HD3	2.32	0.65
30:AF:42:LYS:O	30:AF:42:LYS:NZ	2.29	0.65
34:AQ:39:LEU:O	34:AQ:42:ILE:HD12	1.96	0.65
34:AQ:129:SER:O	34:AQ:131:LYS:NZ	2.28	0.65
39:Cq:139:GLN:O	39:Cq:141:LEU:N	2.30	0.65
39:Cq:141:LEU:O	39:Cq:142:GLY:O	2.15	0.65
39:Cq:199:TYR:HA	39:Cq:203:VAL:HB	1.79	0.65
39:Cq:254:GLU:OE1	84:Cv:54:VAL:CB	2.45	0.65
39:Cq:260:PRO:N	39:Cq:264:LYS:HB3	2.12	0.65
40:CK:123:ARG:HG2	40:CK:125:LEU:H	1.61	0.65
45:Ca:84:GLU:HA	45:Ca:87:ARG:CD	2.27	0.65
47:CI:89:VAL:HG22	47:CI:136:MET:SD	2.37	0.65
48:CD:115:MET:HE3	48:CD:139:PRO:CG	2.26	0.65
50:CR:44:LEU:CD2	50:CR:49:LEU:HD12	2.10	0.65
51:CA:250:LYS:C	51:CA:250:LYS:CD	2.69	0.65
53:CT:11:THR:CG2	53:CT:15:PHE:CE2	2.80	0.65
60:Cr:20:ARG:C	60:Cr:21:ASN:OD1	2.39	0.65
60:Cr:118:LEU:O	60:Cr:122:LYS:HG2	1.96	0.65
63:CB:36:ASP:CG	63:CB:36:ASP:O	2.39	0.65
63:CB:80:GLU:CG	63:CB:171:LEU:HD22	2.26	0.65
63:CB:167:GLN:HB2	63:CB:170:LEU:HD12	1.77	0.65
63:CB:360:LEU:C	63:CB:361:GLU:O	2.39	0.65
64:CF:148:LYS:HD3	64:CF:245:ARG:HH12	1.61	0.65
65:Cc:11:LEU:CD1	65:Cc:12:GLU:O	2.36	0.65
65:Cc:48:LEU:HD21	65:Cc:60:ILE:HD13	1.78	0.65
66:Cd:96:GLU:C	66:Cd:98:SER:N	2.55	0.65
67:Ce:35:TRP:CE2	67:Ce:56:PRO:HD3	2.30	0.65
67:Ce:42:ASP:N	67:Ce:42:ASP:OD2	2.30	0.65
69:Cg:45:ALA:HB3	69:Cg:47:GLY:C	2.21	0.65
74:CC:13:GLU:N	74:CC:13:GLU:OE1	2.28	0.65
75:Cm:96:CYS:HA	75:Cm:121:LEU:HD23	1.79	0.65
79:CJ:79:ALA:O	79:CJ:83:LEU:HG	1.95	0.65
80:CH:41:ILE:CG2	80:CH:42:ASN:N	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:78:GLN:HB3	80:CH:82:LYS:CE	2.26	0.65
81:CE:187:ARG:HG2	81:CE:189:THR:CG2	2.26	0.65
81:CE:245:GLN:O	81:CE:248:ILE:HG22	1.97	0.65
82:CG:76:VAL:CB	82:CG:81:ASN:OD1	2.44	0.65
83:Ct:16:LEU:CG	83:Ct:31:LEU:HD11	2.26	0.65
1:Az:60:ARG:O	1:Az:60:ARG:HG3	1.97	0.65
1:Az:562:GLU:CB	1:Az:570:ILE:CD1	2.73	0.65
1:Az:776:VAL:CG1	1:Az:780:PRO:HB2	2.27	0.65
5:AO:119:LEU:CD1	5:AO:126:ILE:HD11	2.26	0.65
6:AX:126:ALA:CB	6:AX:128:VAL:CB	2.57	0.65
7:AM:35:ILE:HD13	7:AM:61:TYR:CE2	2.32	0.65
10:AN:89:TYR:CE1	10:AN:150:VAL:HG13	2.32	0.65
13:AP:98:ASN:OD1	13:AP:120:SER:HB2	1.97	0.65
14:AT:31:PRO:CG	14:AT:33:TRP:CZ2	2.79	0.65
20:Aa:10:ARG:CG	20:Aa:33:ASP:O	2.44	0.65
20:Aa:51:ARG:HG3	20:Aa:52:ASP:N	2.12	0.65
26:AJ:10:ARG:HB3	26:AJ:10:ARG:CZ	2.24	0.65
26:AJ:28:GLU:CD	26:AJ:40:LYS:HD2	2.20	0.65
26:AJ:130:ILE:HA	26:AJ:135:ILE:CD1	2.26	0.65
26:AJ:137:VAL:HG22	26:AJ:157:ILE:HG12	1.79	0.65
27:AE:73:ASP:CG	27:AE:122:LYS:HZ2	2.04	0.65
28:AC:161:SER:O	28:AC:163:VAL:HG13	1.97	0.65
33:AI:21:TYR:CE1	36:B2:433:A:H5'	2.32	0.65
33:AI:119:LEU:O	33:AI:120:PRO:O	2.15	0.65
33:AI:157:LYS:O	33:AI:158:ILE:O	2.14	0.65
35:Ah:146:GLY:O	35:Ah:148:GLY:N	2.30	0.65
35:Ah:157:ILE:C	35:Ah:157:ILE:CB	2.66	0.65
36:B2:242:U:O2'	36:B2:243:C:H5'	1.97	0.65
36:B2:1334:G:H1	36:B2:1496:U:H3	1.43	0.65
39:Cq:107:VAL:O	39:Cq:109:ALA:N	2.30	0.65
40:CK:39:PRO:C	40:CK:40:LYS:CD	2.70	0.65
40:CK:57:ARG:NH2	40:CK:89:PRO:CA	2.59	0.65
40:CK:94:LYS:CG	40:CK:96:LYS:HE3	2.24	0.65
40:CK:105:THR:HG22	40:CK:144:ASP:HA	1.79	0.65
41:CO:22:ILE:CD1	41:CO:120:VAL:HG11	2.27	0.65
41:CO:119:VAL:HG12	41:CO:120:VAL:N	2.10	0.65
41:CO:120:VAL:O	41:CO:124:LEU:HD12	1.97	0.65
41:CO:177:LEU:C	44:CM:130:LEU:HD23	2.21	0.65
46:CN:49:ARG:O	46:CN:50:ARG:CB	2.44	0.65
47:CI:105:CYS:C	47:CI:107:GLY:N	2.54	0.65
48:CD:260:GLU:CG	48:CD:261:VAL:HG23	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:168:THR:HG21	52:CS:172:PRO:CB	2.27	0.65
52:CS:170:LYS:O	52:CS:172:PRO:CB	2.45	0.65
57:CY:54:GLU:C	57:CY:55:VAL:HG23	2.21	0.65
59:CZ:19:SER:HG	69:Cg:76:ARG:HG3	1.60	0.65
60:Cr:70:GLN:HB2	60:Cr:71:ARG:HE	1.62	0.65
60:Cr:76:SER:N	60:Cr:79:ARG:HH21	1.69	0.65
63:CB:285:TYR:CZ	63:CB:363:ILE:HD13	2.32	0.65
68:Cf:106:TYR:HB2	68:Cf:107:PRO:CA	2.26	0.65
69:Cg:20:THR:HG21	69:Cg:32:TYR:HE2	1.60	0.65
74:CC:6:PRO:HB2	74:CC:24:LEU:HD22	1.79	0.65
78:Co:72:CYS:SG	78:Co:73:VAL:HG23	2.35	0.65
79:CJ:12:MET:O	79:CJ:14:GLU:N	2.29	0.65
82:CG:24:ALA:C	82:CG:26:LYS:N	2.53	0.65
83:Cs:41:PRO:HA	83:Cs:44:PRO:HG3	1.78	0.65
84:Cv:20:ALA:N	84:Cv:43:ILE:HD11	2.11	0.65
85:A5:1820:C:N4	85:A5:1822:U:C6	2.65	0.65
85:A5:2609:G:H1	85:A5:2730:U:H3	1.45	0.65
86:A7:115:A:H5"	86:A7:115:A:C8	2.31	0.65
1:Az:72:SER:CA	1:Az:104:ASP:CG	2.69	0.65
1:Az:502:SER:O	1:Az:504:VAL:N	2.30	0.65
2:Ag:248:LEU:O	2:Ag:259:TRP:HE3	1.75	0.65
4:AK:4:PRO:CG	4:AK:7:ASN:ND2	2.60	0.65
5:AO:37:PHE:O	5:AO:38:ASN:CB	2.45	0.65
6:AX:139:GLU:CD	6:AX:139:GLU:N	2.55	0.65
10:AN:59:GLY:O	10:AN:60:VAL:CG1	2.45	0.65
12:AR:5:ARG:HB2	12:AR:10:LYS:HZ3	0.77	0.65
12:AR:88:VAL:HG21	16:AA:198:MET:CB	2.16	0.65
14:AT:87:VAL:HG21	36:B2:1665:G:N1	2.13	0.65
15:AB:93:GLY:C	15:AB:94:LYS:CG	2.69	0.65
16:AA:66:VAL:HG13	16:AA:186:ARG:CB	2.27	0.65
20:Aa:45:VAL:HG23	20:Aa:46:GLU:N	2.12	0.65
26:AJ:37:LEU:HG	26:AJ:42:GLU:HB2	1.77	0.65
27:AE:86:PHE:CZ	27:AE:182:MET:HE1	2.31	0.65
28:AC:66:LEU:HD23	28:AC:75:ILE:HD12	1.79	0.65
28:AC:73:MET:CE	28:AC:96:PHE:HZ	2.10	0.65
28:AC:192:LEU:HG	28:AC:227:ARG:HG3	1.77	0.65
29:AG:64:LYS:HE2	29:AG:67:VAL:CG1	2.26	0.65
29:AG:185:LEU:HB3	29:AG:189:ARG:NH1	2.12	0.65
31:AH:12:ASN:CG	31:AH:46:THR:OG1	2.38	0.65
33:AI:3:ILE:O	33:AI:3:ILE:HG22	1.96	0.65
33:AI:47:ARG:HB3	33:AI:47:ARG:NH1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:167:GLN:HG3	33:AI:168:GLN:N	2.12	0.65
34:AQ:116:ASP:CG	34:AQ:117:ARG:H	2.04	0.65
36:B2:845:G:H3'	36:B2:846:G:C8	2.32	0.65
38:Cz:29:LEU:HD12	38:Cz:171:HIS:HB3	1.79	0.65
38:Cz:41:TYR:CZ	38:Cz:159:MET:HG3	2.31	0.65
38:Cz:61:PRO:HG3	38:Cz:171:HIS:HE1	1.62	0.65
38:Cz:65:VAL:HG21	38:Cz:147:LYS:NZ	2.10	0.65
38:Cz:100:VAL:C	38:Cz:102:LYS:H	2.04	0.65
39:Cq:199:TYR:CG	39:Cq:204:LEU:HB2	2.32	0.65
39:Cq:245:TYR:OH	83:Ct:56:ILE:HG21	1.95	0.65
41:CO:198:THR:HG21	44:CM:115:ALA:HB2	1.78	0.65
46:CN:120:TRP:NE1	46:CN:128:LYS:NZ	2.44	0.65
46:CN:124:ASP:O	46:CN:126:THR:N	2.30	0.65
48:CD:223:PHE:O	48:CD:224:SER:OG	2.11	0.65
49:CQ:28:LEU:CD1	49:CQ:51:LEU:HD22	2.27	0.65
56:CX:41:ARG:NH1	82:CG:55:VAL:CG1	2.53	0.65
56:CX:119:ILE:HD11	56:CX:140:LEU:CD1	2.27	0.65
57:CY:34:LEU:HD23	57:CY:39:ARG:CA	2.26	0.65
60:Cr:112:ARG:HD3	67:Ce:90:MET:CE	2.25	0.65
60:Cr:132:ARG:HB3	60:Cr:132:ARG:NH2	2.10	0.65
63:CB:159:VAL:HG13	63:CB:184:GLN:CD	2.21	0.65
64:CF:224:THR:O	64:CF:225:THR:O	2.15	0.65
66:Cd:59:THR:O	66:Cd:61:ASP:N	2.30	0.65
68:Cf:7:SER:CB	81:CE:283:PRO:CG	2.70	0.65
74:CC:5:ARG:HH22	74:CC:26:ALA:CB	2.09	0.65
79:CJ:134:LEU:C	79:CJ:157:ILE:HD13	2.18	0.65
81:CE:87:LYS:O	81:CE:92:VAL:HG21	1.98	0.65
81:CE:95:PRO:O	81:CE:96:VAL:HB	1.96	0.65
82:CG:42:GLY:O	82:CG:43:GLN:NE2	2.30	0.65
82:CG:156:VAL:HG11	82:CG:190:LEU:HD11	1.78	0.65
83:Ct:7:LEU:O	83:Ct:11:TYR:HD2	1.80	0.65
84:Cu:17:SER:O	84:Cu:18:PRO:C	2.39	0.65
85:A5:708:G:O2'	85:A5:709:C:H5'	1.97	0.65
85:A5:2483:G:H1	85:A5:2495:U:H3	1.45	0.65
1:Az:191:THR:HG22	1:Az:192:TYR:CE1	2.32	0.64
3:AU:33:GLU:OE1	3:AU:55:ARG:NH2	2.29	0.64
4:AK:17:LYS:HZ3	35:Ah:290:LEU:HD12	1.62	0.64
4:AK:64:TRP:HE1	23:AD:23:GLU:HG2	1.60	0.64
6:AX:4:CYS:SG	36:B2:1161:U:OP2	2.55	0.64
8:AS:34:LYS:CB	8:AS:103:LEU:HD23	2.20	0.64
8:AS:46:ARG:NE	14:AT:50:GLU:HG2	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:47:LYS:CE	8:AS:78:LYS:HB2	2.27	0.64
11:AL:152:LYS:C	11:AL:154:GLN:H	2.04	0.64
18:AY:63:HIS:ND1	18:AY:64:PHE:CD1	2.65	0.64
23:AD:207:HIS:O	23:AD:208:VAL:HG23	1.97	0.64
27:AE:11:ARG:O	27:AE:12:VAL:HB	1.96	0.64
27:AE:117:GLU:O	27:AE:119:ALA:N	2.26	0.64
27:AE:129:ILE:CB	27:AE:139:LEU:CD2	2.73	0.64
27:AE:149:TYR:CE2	29:AG:205:GLU:HB2	2.31	0.64
36:B2:925:G:H1	36:B2:1017:U:H3	1.43	0.64
36:B2:1365:G:H2'	36:B2:1366:G:C8	2.31	0.64
36:B2:1726:G:H1	36:B2:1808:U:H3	1.43	0.64
37:BC:17:G:O6	37:BC:53:A:N1	2.29	0.64
39:Cq:182:PRO:HG3	39:Cq:183:PHE:HE2	1.60	0.64
40:CK:2:PRO:HD2	40:CK:3:PRO:CD	2.27	0.64
40:CK:61:LYS:HA	40:CK:75:PRO:HD3	1.79	0.64
42:CL:58:ILE:HD11	42:CL:157:VAL:HG12	1.75	0.64
46:CN:46:ASP:C	46:CN:50:ARG:CZ	2.70	0.64
46:CN:184:ILE:HG23	46:CN:185:GLY:N	2.13	0.64
47:CI:185:VAL:HG22	47:CI:190:LEU:CG	2.26	0.64
49:CQ:17:GLU:OE2	49:CQ:18:PRO:HD2	1.97	0.64
50:CR:32:ILE:HD11	50:CR:44:LEU:HD13	1.71	0.64
50:CR:62:ARG:NH2	85:A5:4645:C:C5	2.64	0.64
51:CA:248:GLY:C	51:CA:250:LYS:N	2.55	0.64
57:CY:61:HIS:CE1	57:CY:62:TYR:CD2	2.84	0.64
58:CW:86:SER:HG	58:CW:89:ASP:CB	1.90	0.64
59:CZ:76:ASN:CG	59:CZ:78:ASN:HB2	2.20	0.64
60:Cr:32:LEU:HB3	60:Cr:112:ARG:NH2	2.12	0.64
63:CB:40:PRO:C	63:CB:187:GLY:HA3	2.22	0.64
63:CB:62:ARG:N	63:CB:68:ASN:HD22	1.95	0.64
64:CF:160:GLY:HA3	64:CF:207:PHE:CE2	2.31	0.64
66:Cd:21:VAL:C	66:Cd:22:THR:HG23	2.22	0.64
66:Cd:112:THR:OG1	66:Cd:113:THR:CB	2.45	0.64
67:Ce:35:TRP:CE2	67:Ce:56:PRO:HD2	2.23	0.64
69:Cg:76:ARG:HG2	69:Cg:77:ALA:H	0.62	0.64
71:Cj:85:LYS:C	71:Cj:87:LYS:HB2	2.21	0.64
71:Cj:86:PRO:CA	71:Cj:87:LYS:HB2	2.27	0.64
73:Cl:44:TRP:CZ3	73:Cl:45:ARG:CG	2.79	0.64
74:CC:253:THR:OG1	74:CC:256:ALA:HB2	1.96	0.64
77:Cp:3:LYS:O	77:Cp:4:ARG:HB2	1.96	0.64
81:CE:242:ILE:HD12	85:A5:4939:C:H1'	1.80	0.64
85:A5:2005:G:O2'	85:A5:2006:U:H5'	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:470:VAL:HG22	1:Az:471:GLY:N	2.12	0.64
1:Az:503:PRO:C	1:Az:548:GLY:O	2.40	0.64
2:Ag:79:LEU:CD2	2:Ag:89:LEU:HD13	2.27	0.64
5:AO:41:PHE:CE1	5:AO:57:THR:HG21	2.31	0.64
6:AX:93:PHE:O	6:AX:140:ARG:NH1	2.30	0.64
7:AM:20:GLU:HA	7:AM:20:GLU:OE1	1.96	0.64
13:AP:10:ARG:NH2	13:AP:11:THR:HG21	2.10	0.64
15:AB:62:LEU:HD23	15:AB:91:VAL:CG2	2.28	0.64
16:AA:186:ARG:O	16:AA:186:ARG:NE	2.30	0.64
16:AA:193:HIS:HB3	16:AA:194:PRO:HD2	1.80	0.64
18:AY:92:ALA:HA	18:AY:97:TYR:CA	2.27	0.64
21:Ab:33:MET:SD	21:Ab:73:LEU:HD11	2.36	0.64
23:AD:132:LYS:HA	23:AD:191:PRO:CG	2.10	0.64
24:Ae:38:TYR:CD1	26:AJ:29:LEU:HD22	2.31	0.64
27:AE:145:ARG:HH11	27:AE:145:ARG:CG	2.10	0.64
27:AE:184:THR:C	27:AE:189:LEU:CD1	2.70	0.64
30:AF:195:GLU:O	30:AF:199:VAL:HG23	1.97	0.64
33:AI:8:TRP:CZ3	33:AI:20:PRO:HA	2.32	0.64
36:B2:1219:C:H2'	36:B2:1220:A:C8	2.33	0.64
39:Cq:55:MET:SD	39:Cq:87:GLY:CA	2.76	0.64
39:Cq:221:ASN:HB3	84:Cu:55:ILE:CG2	2.26	0.64
39:Cq:221:ASN:HB3	84:Cu:55:ILE:HG23	1.78	0.64
39:Cq:228:GLN:HB2	84:Cu:54:VAL:CG1	2.27	0.64
39:Cq:241:ILE:HD12	83:Ct:59:LEU:HD13	1.80	0.64
40:CK:71:ILE:HG22	40:CK:73:VAL:HG23	1.78	0.64
41:CO:12:ARG:HB2	41:CO:37:ARG:HD3	1.78	0.64
41:CO:169:ARG:HH12	41:CO:173:GLN:HG3	1.62	0.64
42:CL:130:LYS:CB	42:CL:131:PRO:CD	2.75	0.64
46:CN:35:ALA:HA	46:CN:65:ARG:NH1	2.12	0.64
46:CN:151:ILE:O	46:CN:151:ILE:HG22	1.98	0.64
49:CQ:66:MET:SD	49:CQ:100:VAL:HG22	2.37	0.64
51:CA:206:PRO:HD2	51:CA:207:VAL:N	2.13	0.64
52:CS:69:GLU:OE2	52:CS:69:GLU:HA	1.95	0.64
54:CP:131:ARG:HD3	54:CP:137:ASN:HD21	1.49	0.64
55:CU:100:LEU:CD2	55:CU:114:TYR:HB2	2.27	0.64
56:CX:107:HIS:HE1	85:A5:2777:G:H5''	1.61	0.64
57:CY:22:PRO:HG2	57:CY:25:ILE:CG1	2.27	0.64
58:CW:21:TYR:HE2	58:CW:23:ARG:CD	2.08	0.64
60:Cr:59:GLY:O	60:Cr:87:ARG:HB2	1.96	0.64
63:CB:12:GLY:H	85:A5:4622:A:H5''	1.61	0.64
63:CB:141:ASP:CG	63:CB:142:GLY:N	2.55	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:365:LEU:HD12	63:CB:368:ILE:HD11	1.78	0.64
70:Ci:74:LYS:HG3	70:Ci:80:HIS:HD2	1.61	0.64
71:Cj:64:MET:HE3	71:Cj:68:LYS:N	2.12	0.64
72:Ck:31:ASN:CB	72:Ck:46:VAL:HG11	2.20	0.64
74:CC:85:HIS:HA	74:CC:87:SER:N	2.06	0.64
81:CE:27:VAL:CA	81:CE:28:LYS:HG3	2.27	0.64
81:CE:54:ILE:C	81:CE:63:TYR:H	2.05	0.64
81:CE:84:LYS:O	81:CE:85:LYS:C	2.40	0.64
82:CG:146:LEU:HD11	82:CG:147:VAL:HG23	1.79	0.64
85:A5:4046:A:H2'	85:A5:4047:A:C8	2.31	0.64
1:Az:3:ASN:HB3	1:Az:47:ALA:O	1.97	0.64
1:Az:207:PRO:HB3	1:Az:261:TRP:CD2	2.32	0.64
1:Az:335:LEU:O	1:Az:339:VAL:HG23	1.98	0.64
1:Az:495:ARG:O	1:Az:496:VAL:CG1	2.45	0.64
1:Az:563:GLU:CD	1:Az:563:GLU:C	2.64	0.64
1:Az:744:ILE:HG12	1:Az:787:TYR:HB3	1.80	0.64
1:Az:845:LYS:HZ1	1:Az:845:LYS:CA	2.10	0.64
2:Ag:143:GLN:HG3	2:Ag:144:ASP:CB	2.27	0.64
7:AM:124:ILE:CA	7:AM:127:TYR:CE2	2.79	0.64
8:AS:88:LYS:H	8:AS:95:TYR:HD1	1.42	0.64
10:AN:62:GLN:HB2	10:AN:65:PHE:CE2	2.31	0.64
11:AL:112:HIS:HB2	11:AL:134:LEU:CD1	2.28	0.64
13:AP:49:LEU:CA	13:AP:51:ARG:CG	2.68	0.64
14:AT:29:LYS:C	14:AT:30:VAL:CG1	2.70	0.64
15:AB:178:THR:O	15:AB:179:ASN:HB2	1.95	0.64
16:AA:16:LEU:HB2	16:AA:17:LYS:CE	2.28	0.64
16:AA:45:GLY:C	16:AA:46:ILE:HG12	2.22	0.64
18:AY:20:ARG:C	18:AY:21:LYS:HD3	2.22	0.64
18:AY:48:TYR:C	18:AY:50:THR:HG23	2.22	0.64
18:AY:54:VAL:HG23	18:AY:79:LEU:HD21	1.78	0.64
19:AZ:103:HIS:O	19:AZ:104:ARG:C	2.35	0.64
26:AJ:12:THR:C	26:AJ:48:PHE:CE2	2.76	0.64
26:AJ:17:ARG:HB3	26:AJ:18:ARG:HG3	1.79	0.64
27:AE:98:ASN:ND2	27:AE:114:ILE:HG13	2.12	0.64
28:AC:270:THR:CG2	28:AC:271:ASP:OD1	2.45	0.64
29:AG:212:LEU:HA	29:AG:215:LYS:HE2	1.79	0.64
30:AF:42:LYS:CB	30:AF:46:ALA:H	2.09	0.64
33:AI:140:LYS:O	33:AI:144:LYS:O	2.14	0.64
36:B2:338:G:C6	36:B2:339:A:C5	2.85	0.64
39:Cq:200:ASN:O	39:Cq:202:GLU:HB2	1.97	0.64
39:Cq:262:ALA:O	39:Cq:264:LYS:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:125:ILE:CG2	42:CL:127:PHE:HE1	1.99	0.64
44:CM:12:VAL:CG1	44:CM:60:PHE:HB3	2.21	0.64
47:CI:91:LEU:HD11	47:CI:135:ILE:CG1	2.25	0.64
48:CD:113:PHE:HE1	48:CD:142:PHE:HE1	1.45	0.64
49:CQ:15:ARG:O	49:CQ:15:ARG:HD2	1.97	0.64
50:CR:18:GLY:H	50:CR:21:LYS:HD2	1.62	0.64
50:CR:132:PHE:CD1	50:CR:137:ILE:HD13	2.32	0.64
52:CS:45:TRP:NE1	52:CS:61:ILE:CD1	2.59	0.64
53:CT:146:LYS:C	53:CT:147:GLU:OE2	2.40	0.64
54:CP:115:GLU:OE1	54:CP:151:THR:HB	1.97	0.64
57:CY:86:GLN:CB	57:CY:95:VAL:C	2.70	0.64
58:CW:57:ARG:NH2	58:CW:66:GLU:OE1	2.29	0.64
59:CZ:84:ARG:HD3	69:Cg:99:GLU:CD	2.21	0.64
60:Cr:78:VAL:CB	60:Cr:81:THR:O	2.45	0.64
64:CF:42:LEU:O	64:CF:42:LEU:HD23	1.96	0.64
64:CF:89:LEU:HD22	64:CF:123:VAL:O	1.96	0.64
64:CF:176:ALA:HB2	64:CF:185:ILE:HG23	1.78	0.64
65:Cc:81:LEU:CB	65:Cc:91:VAL:HG21	2.27	0.64
69:Cg:57:ARG:CD	69:Cg:59:VAL:CB	2.72	0.64
72:Ck:24:LYS:CE	72:Ck:67:LYS:HD2	2.27	0.64
73:Cl:10:LYS:HD3	73:Cl:10:LYS:C	2.22	0.64
74:CC:57:LEU:CD1	74:CC:61:GLN:HE21	2.08	0.64
77:Cp:30:GLU:OE1	77:Cp:33:GLN:CD	2.41	0.64
78:Co:75:PRO:O	78:Co:75:PRO:HD2	1.97	0.64
78:Co:76:ASN:CA	78:Co:78:ARG:N	2.60	0.64
81:CE:149:ILE:HG22	81:CE:199:THR:HB	1.80	0.64
82:CG:36:PRO:O	82:CG:37:LYS:CG	2.45	0.64
83:Ct:17:HIS:CE1	83:Ct:56:ILE:HD11	2.32	0.64
1:Az:120:ARG:NH1	1:Az:496:VAL:HA	2.11	0.64
1:Az:516:ASP:O	1:Az:518:PRO:N	2.30	0.64
1:Az:649:ILE:CD1	1:Az:652:PHE:HE1	2.09	0.64
2:Ag:248:LEU:O	2:Ag:259:TRP:HZ3	1.70	0.64
5:AO:128:ARG:HD3	15:AB:70:SER:CB	2.27	0.64
7:AM:51:VAL:HB	7:AM:77:ILE:HG21	1.78	0.64
7:AM:85:LEU:HD13	7:AM:106:CYS:SG	2.38	0.64
8:AS:46:ARG:NH1	14:AT:50:GLU:HG2	2.12	0.64
8:AS:54:LYS:N	8:AS:54:LYS:CB	2.57	0.64
8:AS:118:ARG:NH1	13:AP:108:LYS:NZ	2.43	0.64
10:AN:139:TRP:CE3	10:AN:140:LYS:CA	2.80	0.64
14:AT:111:LYS:O	14:AT:124:THR:HG21	1.98	0.64
15:AB:71:LEU:HB2	15:AB:84:PHE:CE2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:34:MET:CE	16:AA:37:TYR:HE2	2.01	0.64
16:AA:66:VAL:HG11	17:AV:46:PHE:CB	2.28	0.64
20:Aa:10:ARG:HB3	20:Aa:34:LYS:HA	1.79	0.64
21:Ab:81:ARG:HB2	21:Ab:82:LYS:CD	2.26	0.64
23:AD:126:ILE:CD1	23:AD:134:CYS:CB	2.75	0.64
27:AE:62:LYS:HD2	27:AE:80:ILE:CG1	2.28	0.64
27:AE:74:GLY:C	27:AE:75:LYS:CG	2.69	0.64
27:AE:153:LEU:HD23	29:AG:216:ARG:HH12	1.58	0.64
28:AC:132:ASP:CG	28:AC:134:ASN:H	2.05	0.64
29:AG:162:LEU:HD22	29:AG:172:LYS:NZ	2.12	0.64
30:AF:129:GLY:O	30:AF:134:VAL:HG22	1.97	0.64
31:AH:10:LYS:CB	31:AH:20:GLU:OE1	2.46	0.64
31:AH:193:GLN:C	31:AH:194:LEU:O	2.32	0.64
34:AQ:72:VAL:HG23	34:AQ:84:ILE:HG22	1.77	0.64
36:B2:530:U:C5	36:B2:531:A:N9	2.66	0.64
36:B2:1522:A:H2	36:B2:1523:C:C5	2.16	0.64
38:Cz:144:MET:HG3	38:Cz:145:VAL:H	1.63	0.64
39:Cq:86:VAL:CG1	39:Cq:87:GLY:N	2.60	0.64
39:Cq:212:HIS:CE1	83:Cs:59:LEU:CD1	2.78	0.64
48:CD:41:LYS:CE	53:CT:93:ILE:HD13	2.09	0.64
49:CQ:34:PHE:HD2	74:CC:293:LEU:CD2	1.84	0.64
49:CQ:94:GLU:HA	49:CQ:94:GLU:OE1	1.80	0.64
52:CS:27:LEU:H	52:CS:27:LEU:CD1	2.10	0.64
57:CY:61:HIS:HE1	57:CY:62:TYR:CZ	2.15	0.64
59:CZ:134:LEU:HD12	69:Cg:98:GLU:OE2	1.97	0.64
60:Cr:77:TYR:O	60:Cr:77:TYR:HD2	1.78	0.64
61:Ch:67:GLU:C	61:Ch:70:ARG:HG2	2.21	0.64
63:CB:40:PRO:HA	63:CB:41:VAL:HG22	1.77	0.64
63:CB:140:GLU:OE1	63:CB:144:LYS:HB3	1.97	0.64
63:CB:165:HIS:HB3	63:CB:180:LEU:CG	2.27	0.64
65:Cc:29:LEU:HD11	65:Cc:87:LYS:HG3	1.79	0.64
67:Ce:35:TRP:CZ2	67:Ce:56:PRO:HD3	2.31	0.64
70:Ci:33:LEU:HD13	70:Ci:33:LEU:C	2.14	0.64
79:CJ:9:GLU:O	79:CJ:10:ASN:HB2	1.98	0.64
79:CJ:26:VAL:HG21	79:CJ:33:LEU:HD23	1.78	0.64
80:CH:53:LYS:O	80:CH:54:ARG:CG	2.45	0.64
82:CG:100:HIS:O	82:CG:100:HIS:CD2	2.49	0.64
82:CG:240:ASN:O	82:CG:241:VAL:CG1	2.46	0.64
82:CG:265:LEU:C	82:CG:266:GLY:O	2.37	0.64
85:A5:2100:A:H4'	85:A5:2100:A:OP1	1.97	0.64
86:A7:115:A:H2'	86:A7:116:G:O4'	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:284:LYS:H	1:Az:284:LYS:CE	2.11	0.64
1:Az:647:ARG:HH21	1:Az:647:ARG:CG	2.11	0.64
2:Ag:143:GLN:HG3	2:Ag:144:ASP:HB2	1.78	0.64
4:AK:38:LYS:O	4:AK:39:ASN:CB	2.45	0.64
4:AK:50:GLN:O	4:AK:53:LYS:HG2	1.98	0.64
8:AS:42:HIS:CG	14:AT:45:LEU:CD1	2.46	0.64
14:AT:124:THR:HG22	14:AT:127:GLY:H	1.61	0.64
16:AA:176:TRP:HE3	16:AA:177:MET:SD	2.16	0.64
16:AA:180:ARG:NH1	16:AA:184:ARG:HH12	1.95	0.64
18:AY:5:VAL:HG12	18:AY:6:THR:N	2.13	0.64
18:AY:18:LEU:HD12	18:AY:20:ARG:NH1	2.08	0.64
18:AY:62:THR:CB	18:AY:69:THR:HG22	2.27	0.64
18:AY:92:ALA:O	18:AY:97:TYR:O	2.15	0.64
23:AD:201:LYS:O	23:AD:202:LYS:HB2	1.96	0.64
26:AJ:114:VAL:HG12	26:AJ:119:LEU:O	1.96	0.64
29:AG:142:ARG:HH21	29:AG:152:ASP:N	1.95	0.64
29:AG:145:PHE:CB	29:AG:147:LEU:CD1	2.65	0.64
30:AF:51:HIS:ND1	34:AQ:82:TYR:OH	2.31	0.64
30:AF:112:LEU:CA	30:AF:177:LEU:HD11	2.27	0.64
32:AW:20:ARG:NH1	36:B2:1139:C:H1'	2.11	0.64
34:AQ:42:ILE:CG1	34:AQ:51:LEU:HD21	2.28	0.64
36:B2:1418:C:H42	36:B2:1421:A:N6	1.95	0.64
39:Cq:69:LEU:O	39:Cq:71:ASN:N	2.30	0.64
41:CO:202:LEU:CB	44:CM:104:MET:HE2	2.22	0.64
42:CL:182:LEU:CD2	45:Ca:146:LEU:HD13	2.26	0.64
44:CM:66:HIS:O	44:CM:66:HIS:ND1	2.30	0.64
45:Ca:117:LEU:CD1	45:Ca:118:PRO:HD2	2.08	0.64
46:CN:197:THR:O	46:CN:198:LEU:HD22	1.97	0.64
48:CD:33:ARG:NE	53:CT:27:LEU:HD11	2.13	0.64
48:CD:152:ARG:NH1	79:CJ:145:LYS:HZ1	1.94	0.64
50:CR:119:MET:HE2	50:CR:119:MET:CA	2.25	0.64
51:CA:185:ALA:HA	51:CA:188:LYS:HD2	1.80	0.64
51:CA:219:ILE:CD1	51:CA:223:SER:HB3	2.27	0.64
56:CX:65:ALA:HB1	56:CX:66:PRO:HD2	1.79	0.64
60:Cr:71:ARG:CZ	60:Cr:71:ARG:CA	2.76	0.64
61:Ch:67:GLU:HA	61:Ch:70:ARG:CD	2.27	0.64
61:Ch:89:ARG:HG3	61:Ch:93:ARG:HE	1.63	0.64
63:CB:86:VAL:HG13	63:CB:162:VAL:CG1	2.28	0.64
63:CB:138:GLN:HA	63:CB:138:GLN:OE1	1.98	0.64
63:CB:140:GLU:CD	63:CB:144:LYS:CE	2.71	0.64
63:CB:189:THR:HG21	63:CB:192:GLU:CD	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Cd:23:ARG:HD2	66:Cd:57:MET:SD	2.37	0.64
67:Ce:35:TRP:CH2	67:Ce:55:MET:HG2	2.33	0.64
70:Ci:50:PHE:HZ	70:Ci:93:VAL:CG2	2.11	0.64
72:Ck:25:ILE:CG1	72:Ck:34:PHE:CE2	2.80	0.64
77:Cp:50:ARG:CZ	77:Cp:54:ILE:HD11	2.19	0.64
81:CE:145:THR:HG21	81:CE:200:LYS:HD3	1.79	0.64
82:CG:70:LEU:C	82:CG:73:ARG:HB2	2.23	0.64
84:Cu:7:TYR:CD1	84:Cu:18:PRO:CB	2.79	0.64
84:Cv:3:TYR:OH	84:Cv:38:ARG:HD2	1.96	0.64
2:Ag:57:ARG:HD2	2:Ag:94:THR:C	2.22	0.64
4:AK:2:LEU:HD13	4:AK:3:MET:H	0.53	0.64
4:AK:3:MET:HG2	4:AK:4:PRO:N	2.13	0.64
5:AO:30:VAL:CG2	5:AO:45:THR:OG1	2.46	0.64
5:AO:51:GLU:OE2	15:AB:28:LYS:CD	2.45	0.64
6:AX:5:ARG:NH2	36:B2:1159:G:OP2	2.28	0.64
9:Ad:10:HIS:ND1	9:Ad:10:HIS:C	2.55	0.64
13:AP:10:ARG:HE	13:AP:11:THR:CB	2.11	0.64
13:AP:98:ASN:ND2	13:AP:120:SER:HB2	2.12	0.64
14:AT:84:ARG:HB2	14:AT:84:ARG:CZ	2.27	0.64
14:AT:85:ASN:O	14:AT:88:MET:CE	2.44	0.64
15:AB:57:ILE:HD12	15:AB:60:ASP:OD2	1.98	0.64
15:AB:71:LEU:HD13	15:AB:84:PHE:HE2	0.85	0.64
16:AA:176:TRP:CD1	16:AA:199:PRO:HA	2.33	0.64
18:AY:87:PRO:CB	18:AY:89:HIS:CE1	2.80	0.64
23:AD:47:GLU:HG2	23:AD:85:GLU:HG3	1.79	0.64
25:Af:147:THR:HG23	25:Af:147:THR:O	1.98	0.64
26:Aj:84:ILE:CD1	26:Aj:86:VAL:CG2	2.75	0.64
26:Aj:118:GLY:O	26:Aj:120:ALA:N	2.29	0.64
26:Aj:177:ASN:O	26:Aj:180:LYS:HB3	1.96	0.64
28:AC:251:LEU:CD2	28:AC:252:THR:O	2.45	0.64
28:AC:274:VAL:HG12	28:AC:274:VAL:O	1.97	0.64
29:AG:142:ARG:CD	29:AG:147:LEU:HB3	2.27	0.64
30:AF:44:LYS:C	30:AF:45:TYR:HD1	2.05	0.64
33:AI:145:ILE:HA	33:AI:148:LYS:CG	2.28	0.64
36:B2:499:G:C2	36:B2:501:C:HI'	2.32	0.64
38:Cz:144:MET:HG3	38:Cz:145:VAL:N	2.12	0.64
39:Cq:168:GLY:C	39:Cq:171:GLU:HG2	2.19	0.64
39:Cq:198:ILE:CA	83:Cs:42:PHE:CZ	2.81	0.64
40:CK:81:ILE:HD13	40:CK:116:MET:HE2	1.80	0.64
40:CK:102:GLY:CA	40:CK:139:VAL:HA	2.24	0.64
40:CK:131:GLU:HB3	40:CK:152:ILE:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:31:ARG:O	42:CL:35:ARG:HG3	1.97	0.64
42:CL:86:ILE:HD11	42:CL:121:ARG:NE	2.12	0.64
44:CM:89:THR:OG1	44:CM:92:ALA:N	2.30	0.64
46:CN:67:ARG:O	46:CN:68:ARG:HB3	1.98	0.64
47:CI:205:PRO:CA	47:CI:206:LEU:N	2.61	0.64
52:CS:173:ASN:HD21	52:CS:174:THR:HG22	1.63	0.64
53:CT:40:VAL:HG12	53:CT:96:ILE:HG23	1.72	0.64
54:CP:4:TYR:O	54:CP:5:SER:O	2.16	0.64
60:Cr:65:LYS:O	60:Cr:66:ARG:O	2.16	0.64
62:Cb:14:ARG:O	62:Cb:18:ARG:HD2	1.98	0.64
62:Cb:51:LYS:HA	62:Cb:51:LYS:CE	2.27	0.64
63:CB:297:LYS:C	63:CB:298:LEU:CA	2.68	0.64
64:CF:162:ILE:CD1	64:CF:174:LEU:HD11	2.27	0.64
69:Cg:43:LYS:HA	69:Cg:51:GLY:O	1.96	0.64
72:Ck:33:LYS:CD	72:Ck:46:VAL:HG22	2.27	0.64
83:Ct:44:PRO:CD	83:Ct:45:GLY:N	2.52	0.64
85:A5:1377:G:H3'	85:A5:1378:C:C5'	2.28	0.64
1:Az:126:LEU:HD11	1:Az:156:MET:SD	2.37	0.64
1:Az:191:THR:CB	1:Az:192:TYR:CD2	2.80	0.64
1:Az:420:LEU:O	1:Az:420:LEU:HG	1.95	0.64
1:Az:616:ASP:OD1	1:Az:621:GLU:CB	2.46	0.64
5:AO:20:GLN:NE2	5:AO:21:VAL:O	2.31	0.64
10:AN:6:ALA:HB1	10:AN:7:PRO:CD	2.27	0.64
11:AL:113:LEU:HD21	11:AL:117:PHE:HB2	1.78	0.64
14:AT:29:LYS:HA	14:AT:29:LYS:CE	2.20	0.64
14:AT:77:LYS:HA	14:AT:94:ARG:CG	2.26	0.64
15:AB:160:GLN:NE2	15:AB:205:TYR:CE1	2.55	0.64
22:Ac:11:LEU:HB3	22:Ac:35:MET:CE	2.26	0.64
23:AD:222:PRO:O	23:AD:223:ILE:HB	1.97	0.64
24:Ae:38:TYR:HD1	26:AJ:29:LEU:HD22	1.62	0.64
24:Ae:51:LYS:C	24:Ae:52:LYS:CD	2.54	0.64
26:AJ:34:GLU:HB2	26:AJ:35:TYR:HD2	1.61	0.64
26:AJ:72:PHE:CD1	27:AE:248:ILE:HD12	2.16	0.64
26:AJ:82:VAL:CG1	26:AJ:92:MET:CE	2.76	0.64
26:AJ:88:ASP:O	26:AJ:91:LYS:CB	2.42	0.64
27:AE:72:ILE:HD13	27:AE:82:TYR:CE2	2.32	0.64
27:AE:98:ASN:ND2	27:AE:114:ILE:CD1	2.60	0.64
28:AC:252:THR:OG1	28:AC:255:LEU:HD13	1.97	0.64
29:AG:32:MET:O	29:AG:33:ALA:CB	2.44	0.64
30:AF:176:GLU:CD	30:AF:187:SER:OG	2.40	0.64
33:AI:142:SER:HB2	33:AI:143:LYS:HZ2	1.53	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:177:ARG:O	35:Ah:178:GLY:O	2.16	0.64
39:Cq:39:GLN:NE2	39:Cq:107:VAL:CB	2.60	0.64
40:CK:10:ILE:HB	40:CK:66:ASN:C	2.22	0.64
40:CK:66:ASN:HB2	40:CK:69:ALA:HB3	1.79	0.64
42:CL:21:ARG:CB	46:CN:196:ASN:O	2.45	0.64
46:CN:115:VAL:N	46:CN:134:LEU:HD22	2.13	0.64
47:CI:92:HIS:HB2	47:CI:94:PHE:CE2	2.33	0.64
49:CQ:18:PRO:C	49:CQ:20:SER:N	2.49	0.64
50:CR:129:GLY:O	50:CR:130:ASN:ND2	2.30	0.64
50:CR:132:PHE:CD1	50:CR:137:ILE:HG23	2.32	0.64
51:CA:10:LYS:HG2	51:CA:16:PHE:CD1	2.33	0.64
51:CA:21:LYS:NZ	85:A5:2449:A:H5'	2.13	0.64
52:CS:83:ARG:HD3	53:CT:156:TYR:N	2.10	0.64
54:CP:67:VAL:HG12	54:CP:68:GLY:N	2.13	0.64
54:CP:105:LYS:N	54:CP:105:LYS:HD2	2.12	0.64
57:CY:54:GLU:OE2	57:CY:69:LYS:CB	2.46	0.64
59:CZ:91:LEU:HB3	59:CZ:117:LYS:HE2	1.79	0.64
60:Cr:28:GLU:N	60:Cr:31:ASN:HD21	1.95	0.64
60:Cr:90:LEU:HD23	60:Cr:118:LEU:HD11	1.69	0.64
61:Ch:9:LEU:HA	61:Ch:12:LYS:HE3	1.78	0.64
72:Ck:56:LEU:O	72:Ck:56:LEU:HD23	1.98	0.64
74:CC:33:ARG:HD3	74:CC:122:TYR:CZ	2.33	0.64
79:CJ:135:GLY:HA2	79:CJ:157:ILE:CD1	2.28	0.64
81:CE:83:LYS:CB	81:CE:84:LYS:CA	2.48	0.64
81:CE:212:LEU:HG	81:CE:216:TYR:HB3	1.78	0.64
82:CG:77:PRO:HB3	82:CG:237:TRP:CH2	2.32	0.64
8:AS:20:ILE:HD11	8:AS:33:ILE:HD11	1.79	0.64
10:AN:18:TYR:O	10:AN:19:ARG:C	2.39	0.64
12:AR:99:ASP:CA	12:AR:119:VAL:HG13	2.13	0.64
13:AP:13:ARG:O	13:AP:14:LYS:HG3	1.97	0.64
13:AP:44:ARG:HD2	13:AP:82:ASP:O	1.97	0.64
13:AP:98:ASN:OD1	13:AP:120:SER:OG	2.14	0.64
13:AP:100:LYS:HG2	36:B2:1240:A:N1	2.13	0.64
16:AA:7:VAL:HG22	17:AV:43:THR:HG21	1.79	0.64
16:AA:119:PRO:O	16:AA:142:LEU:CD2	2.45	0.64
17:AV:9:VAL:HG21	28:AC:176:LYS:HD3	1.80	0.64
18:AY:111:LYS:HD2	18:AY:115:LYS:HE3	1.80	0.64
27:AE:86:PHE:O	27:AE:142:HIS:HE1	1.81	0.64
28:AC:232:THR:O	28:AC:234:GLY:N	2.31	0.64
28:AC:256:TRP:CD1	32:AW:68:ARG:HD3	2.32	0.64
29:AG:64:LYS:HE2	29:AG:67:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:20:PHE:HB3	30:AF:23:TRP:HB2	1.78	0.64
30:AF:201:LYS:CD	30:AF:204:ARG:NH2	2.39	0.64
31:AH:163:GLN:O	31:AH:166:VAL:HG12	1.97	0.64
33:AI:112:TRP:CZ3	33:AI:117:TYR:CE2	2.86	0.64
36:B2:556:U:H2'	36:B2:557:U:C5'	2.28	0.64
39:Cq:237:VAL:N	39:Cq:238:PRO:HD2	2.03	0.64
40:CK:62:LEU:CD1	40:CK:73:VAL:CG2	2.72	0.64
42:CL:20:ARG:H	42:CL:20:ARG:HD3	1.61	0.64
44:CM:5:ARG:HB3	44:CM:11:ARG:HH21	1.61	0.64
46:CN:4:TYR:HA	46:CN:46:ASP:OD1	1.98	0.64
46:CN:65:ARG:CD	46:CN:129:PHE:CE1	2.75	0.64
47:CI:77:VAL:CG1	47:CI:82:ARG:HD2	2.27	0.64
48:CD:40:ASP:OD2	48:CD:43:LYS:HE3	1.98	0.64
48:CD:48:LYS:HE3	48:CD:145:TYR:CD2	2.32	0.64
51:CA:158:ILE:CG2	51:CA:159:SER:H	2.11	0.64
58:CW:74:ARG:O	58:CW:75:ALA:CB	2.45	0.64
60:Cr:119:ARG:HA	60:Cr:122:LYS:HG2	1.79	0.64
61:Ch:47:ILE:CG2	61:Ch:48:ARG:H	2.08	0.64
64:CF:24:ASN:C	64:CF:26:ALA:N	2.56	0.64
64:CF:197:VAL:CG1	64:CF:198:GLY:H	1.96	0.64
73:Cl:46:ARG:O	73:Cl:47:THR:OG1	2.16	0.64
79:CJ:95:ARG:N	79:CJ:98:ASN:ND2	2.33	0.64
80:CH:108:ASN:ND2	80:CH:132:VAL:O	2.29	0.64
81:CE:223:ARG:HB3	81:CE:233:PHE:CE1	2.32	0.64
82:CG:150:LYS:HG3	82:CG:177:MET:CE	2.26	0.64
82:CG:162:ASP:HB3	82:CG:163:PRO:HD3	1.73	0.64
82:CG:175:ARG:HD3	82:CG:176:LYS:N	2.13	0.64
82:CG:180:PRO:HA	82:CG:227:ASN:ND2	2.08	0.64
83:Cs:19:ASP:CB	84:Cu:2:ARG:HD3	2.27	0.64
1:Az:420:LEU:HD23	1:Az:420:LEU:H	1.58	0.64
1:Az:825:PHE:C	1:Az:826:ASP:O	2.32	0.64
2:Ag:261:LEU:N	2:Ag:261:LEU:HD22	2.13	0.64
4:AK:48:ALA:O	4:AK:52:LEU:HD23	1.98	0.64
5:AO:52:THR:C	5:AO:53:ILE:HG23	2.16	0.64
6:AX:74:LEU:CD1	6:AX:81:ILE:CD1	2.71	0.64
12:AR:19:LYS:NZ	23:AD:212:GLU:HG2	2.12	0.64
13:AP:44:ARG:HH22	13:AP:84:ILE:H	1.37	0.64
15:AB:26:SER:C	15:AB:27:LYS:HG3	2.22	0.64
23:AD:123:LEU:HD21	23:AD:154:ASP:OD2	1.97	0.64
28:AC:108:LYS:CD	28:AC:233:LEU:HD22	1.83	0.64
31:AH:83:LEU:HD12	31:AH:83:LEU:C	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:139:LYS:HB3	33:AI:145:ILE:HD11	1.57	0.64
34:AQ:42:ILE:CD1	34:AQ:51:LEU:HD22	2.03	0.64
34:AQ:140:ARG:HB3	36:B2:1644:C:H4'	1.78	0.64
39:Cq:168:GLY:N	39:Cq:171:GLU:CG	2.61	0.64
41:CO:9:LEU:CG	52:CS:167:PHE:CE1	2.81	0.64
45:Ca:91:ALA:O	45:Ca:93:ASN:CB	2.46	0.64
46:CN:41:ARG:C	46:CN:61:ILE:CD1	2.70	0.64
46:CN:138:PHE:HA	46:CN:143:ARG:HE	1.58	0.64
46:CN:149:GLN:HE21	46:CN:150:TRP:H	1.45	0.64
47:CI:30:LYS:CG	47:CI:63:GLU:HG2	2.28	0.64
47:CI:97:ILE:HD11	47:CI:126:VAL:CG2	2.27	0.64
47:CI:109:ASP:OD2	47:CI:112:GLN:CG	2.45	0.64
48:CD:69:ILE:HG22	53:CT:31:MET:HG3	1.80	0.64
48:CD:104:LEU:CD2	48:CD:247:ILE:HD13	2.27	0.64
48:CD:223:PHE:CG	48:CD:226:TYR:CD2	2.85	0.64
50:CR:99:MET:CE	50:CR:128:LYS:CA	2.76	0.64
51:CA:118:GLU:HG3	51:CA:119:LYS:CG	2.28	0.64
51:CA:210:PRO:CG	51:CA:233:ARG:HA	2.27	0.64
51:CA:253:GLN:CD	51:CA:255:LYS:HD2	2.22	0.64
54:CP:71:ALA:HB1	54:CP:74:LYS:HE3	1.79	0.64
56:CX:68:ARG:O	56:CX:69:ASN:O	2.14	0.64
57:CY:62:TYR:HE1	57:CY:85:VAL:HG11	1.61	0.64
59:CZ:37:PRO:HD2	59:CZ:38:TYR:CE2	2.33	0.64
60:Cr:28:GLU:OE1	60:Cr:28:GLU:N	2.29	0.64
68:Cf:70:ILE:HG22	68:Cf:88:PHE:HD2	1.63	0.64
70:CI:62:LYS:HE2	70:CI:94:LEU:HD13	1.80	0.64
72:Ck:24:LYS:HE2	72:Ck:67:LYS:CG	2.28	0.64
74:CC:101:MET:HE3	74:CC:104:PRO:CA	2.28	0.64
77:Cp:36:LYS:NZ	77:Cp:46:LYS:HZ3	1.96	0.64
78:Co:73:VAL:HG12	78:Co:74:GLU:CA	2.28	0.64
1:Az:13:MET:HE1	1:Az:464:VAL:CA	2.28	0.64
1:Az:228:PHE:CE1	1:Az:232:TYR:OH	2.49	0.64
1:Az:267:ASP:OD1	1:Az:268:PRO:N	2.30	0.64
1:Az:481:LYS:CG	1:Az:482:THR:N	2.16	0.64
1:Az:557:CYS:HA	1:Az:560:ASP:OD2	1.98	0.64
2:Ag:46:THR:CB	2:Ag:48:ASP:H	2.11	0.64
2:Ag:83:TRP:O	2:Ag:85:GLY:N	2.31	0.64
2:Ag:87:LEU:HD23	2:Ag:108:VAL:HG11	1.79	0.64
2:Ag:170:TRP:C	2:Ag:172:LYS:N	2.53	0.64
3:AU:48:LEU:HD12	3:AU:91:LEU:HD22	1.80	0.64
8:AS:92:ASP:OD2	8:AS:92:ASP:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:21:SER:O	10:AN:22:VAL:CB	2.46	0.64
14:AT:11:GLN:NE2	14:AT:62:ARG:NE	2.44	0.64
16:AA:125:THR:O	16:AA:147:LEU:HD12	1.98	0.64
16:AA:185:MET:CE	17:AV:39:VAL:CG1	2.66	0.64
17:AV:53:TYR:OH	17:AV:72:LEU:O	2.08	0.64
19:AZ:110:THR:HG22	30:AF:102:LEU:HD13	1.78	0.64
21:Ab:1:MET:HA	21:Ab:1:MET:HE3	1.79	0.64
21:Ab:8:LEU:CG	32:AW:62:VAL:HG11	2.27	0.64
23:AD:141:LYS:HD2	23:AD:179:GLN:HG2	1.78	0.64
24:Ae:41:ARG:CA	24:Ae:45:VAL:CG2	2.76	0.64
26:AJ:35:TYR:CE1	26:AJ:112:THR:HG21	2.33	0.64
26:AJ:84:ILE:HD12	26:AJ:86:VAL:CG2	2.28	0.64
27:AE:67:GLN:HG2	27:AE:69:PHE:CE2	2.33	0.64
31:AH:110:THR:O	31:AH:110:THR:CG2	2.46	0.64
33:AI:36:THR:HB	33:AI:57:ALA:O	1.97	0.64
33:AI:82:VAL:CG1	33:AI:202:ILE:HD11	2.25	0.64
33:AI:145:ILE:CA	33:AI:148:LYS:HG3	2.28	0.64
36:B2:530:U:O4	36:B2:555:A:N3	2.31	0.64
39:Cq:21:LEU:HD13	39:Cq:66:ARG:HB3	1.78	0.64
39:Cq:271:ASP:N	39:Cq:272:PRO:CD	2.61	0.64
40:CK:22:VAL:HG23	40:CK:48:LYS:CG	2.28	0.64
40:CK:91:ASP:O	40:CK:92:ARG:CB	2.46	0.64
40:CK:123:ARG:CG	40:CK:128:THR:OG1	2.46	0.64
42:CL:127:PHE:CE2	42:CL:144:LEU:HD22	2.33	0.64
43:CV:85:ARG:HG3	43:CV:99:GLU:O	1.97	0.64
45:Ca:87:ARG:C	45:Ca:91:ALA:CB	2.66	0.64
46:CN:96:ARG:HE	46:CN:100:SER:HB2	1.62	0.64
46:CN:152:THR:OG1	61:Ch:95:LEU:HD21	1.98	0.64
47:CI:21:ARG:HD3	47:CI:21:ARG:C	2.23	0.64
47:CI:92:HIS:HB3	47:CI:94:PHE:CD2	2.33	0.64
48:CD:14:LYS:O	53:CT:20:ARG:NH1	2.30	0.64
48:CD:178:LYS:HG3	48:CD:183:TYR:CZ	2.33	0.64
49:CQ:61:LEU:CD1	49:CQ:82:VAL:CG2	2.53	0.64
49:CQ:70:MET:HE2	49:CQ:98:LEU:HG	1.80	0.64
50:CR:96:MET:HE1	85:A5:2667:C:C5'	2.27	0.64
52:CS:23:HIS:CD2	52:CS:23:HIS:O	2.51	0.64
53:CT:139:HIS:O	64:CF:82:TYR:CD1	2.51	0.64
55:CU:50:ASN:O	55:CU:50:ASN:ND2	2.31	0.64
57:CY:15:ARG:NH1	57:CY:15:ARG:HG2	2.12	0.64
57:CY:118:ILE:HG22	57:CY:122:LYS:HE2	1.78	0.64
58:CW:66:GLU:O	58:CW:70:LYS:HD2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:32:GLY:C	59:CZ:33:THR:HG23	2.22	0.64
59:CZ:57:MET:O	59:CZ:57:MET:HG3	1.98	0.64
63:CB:40:PRO:O	63:CB:187:GLY:HA3	1.98	0.64
63:CB:40:PRO:HG2	63:CB:42:HIS:CD2	2.31	0.64
68:Cf:11:PHE:HD2	68:Cf:97:ILE:HA	1.62	0.64
70:Ci:24:PRO:HB3	70:Ci:29:ARG:HH12	1.62	0.64
70:Ci:64:SER:O	70:Ci:65:LYS:HD2	1.98	0.64
73:Cl:28:ARG:HA	73:Cl:33:ASN:ND2	2.13	0.64
74:CC:128:LEU:HD11	74:CC:235:LEU:CD1	2.27	0.64
74:CC:158:VAL:CA	74:CC:161:TYR:CD2	2.74	0.64
77:Cp:48:LYS:CD	77:Cp:48:LYS:C	2.69	0.64
82:CG:136:LEU:CD2	82:CG:204:PHE:CE2	2.75	0.64
1:Az:742:GLU:HB3	1:Az:820:LEU:HD21	1.78	0.63
2:Ag:285:GLN:C	2:Ag:302:TYR:CD1	2.77	0.63
3:AU:56:MET:CE	3:AU:88:LEU:CD2	2.76	0.63
6:AX:35:ALA:HA	6:AX:39:ASN:HD22	1.60	0.63
7:AM:35:ILE:HG23	7:AM:36:ARG:N	2.13	0.63
8:AS:8:LYS:HB2	8:AS:9:PHE:CE1	2.26	0.63
8:AS:89:ASP:O	8:AS:90:VAL:HB	1.98	0.63
10:AN:28:LEU:HD13	10:AN:58:HIS:CE1	2.33	0.63
11:AL:22:ARG:CZ	11:AL:22:ARG:HB3	2.27	0.63
12:AR:93:GLN:O	12:AR:94:GLU:C	2.40	0.63
13:AP:41:GLN:HA	13:AP:84:ILE:HD11	1.78	0.63
15:AB:31:TYR:CE2	15:AB:62:LEU:HD22	2.33	0.63
15:AB:225:LEU:CB	15:AB:229:MET:HE2	2.21	0.63
19:AZ:99:LEU:HD11	19:AZ:102:LYS:NZ	2.13	0.63
23:AD:53:THR:HG22	23:AD:91:VAL:CG2	2.27	0.63
23:AD:55:THR:CA	23:AD:58:VAL:HG22	2.27	0.63
23:AD:63:GLY:O	23:AD:67:ARG:NH1	2.31	0.63
27:AE:98:ASN:ND2	27:AE:114:ILE:HD11	2.13	0.63
28:AC:164:PRO:CD	28:AC:164:PRO:O	2.46	0.63
29:AG:74:ARG:HD3	29:AG:94:ARG:CD	2.22	0.63
30:AF:186:ASN:O	30:AF:191:LYS:NZ	2.31	0.63
36:B2:1417:C:H6	36:B2:1417:C:H3'	1.62	0.63
39:Cq:66:ARG:CG	39:Cq:69:LEU:HD22	2.28	0.63
40:CK:95:GLN:C	40:CK:97:ASN:H	2.05	0.63
42:CL:157:VAL:CG2	42:CL:157:VAL:O	2.46	0.63
44:CM:77:TRP:C	44:CM:82:ILE:CD1	2.65	0.63
44:CM:124:LYS:HE2	44:CM:124:LYS:HA	1.78	0.63
45:Ca:140:VAL:HG12	45:Ca:140:VAL:O	1.96	0.63
46:CN:150:TRP:CZ3	46:CN:151:ILE:HG12	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:10:ARG:NH2	47:CI:56:GLU:CD	2.52	0.63
47:CI:64:ALA:O	47:CI:159:PHE:HE1	1.80	0.63
48:CD:210:TYR:HA	48:CD:213:GLU:OE2	1.98	0.63
49:CQ:88:ASP:OD1	49:CQ:89:ASP:N	2.31	0.63
49:CQ:150:ARG:HG2	49:CQ:164:LYS:HG3	1.80	0.63
50:CR:44:LEU:HD22	50:CR:49:LEU:HB3	1.78	0.63
52:CS:15:ARG:NH1	52:CS:24:THR:CG2	2.60	0.63
52:CS:80:ILE:HG22	52:CS:95:ARG:HG3	1.76	0.63
56:CX:89:LYS:NZ	56:CX:97:VAL:HG23	2.10	0.63
57:CY:61:HIS:CE1	57:CY:62:TYR:HE2	2.11	0.63
63:CB:329:ASP:OD2	63:CB:329:ASP:N	2.31	0.63
66:Cd:108:TYR:CA	66:Cd:109:VAL:N	2.59	0.63
67:Ce:39:ARG:NH2	67:Ce:39:ARG:CG	2.47	0.63
70:CI:74:LYS:HG3	70:CI:80:HIS:CD2	2.34	0.63
74:CC:146:GLU:HG2	74:CC:175:LYS:HE3	1.79	0.63
74:CC:284:MET:HG2	74:CC:285:ILE:N	2.14	0.63
80:CH:117:PHE:O	80:CH:120:GLU:HG2	1.98	0.63
81:CE:47:ASN:HD22	81:CE:48:PRO:CD	2.09	0.63
82:CG:98:LEU:HD21	82:CG:215:LEU:HD23	1.74	0.63
82:CG:254:GLU:OE1	82:CG:254:GLU:CA	2.36	0.63
1:Az:70:ILE:O	1:Az:71:LYS:CG	2.46	0.63
1:Az:160:MET:SD	1:Az:178:PHE:HZ	2.21	0.63
1:Az:216:SER:OG	1:Az:219:HIS:HB2	1.98	0.63
1:Az:744:ILE:CD1	1:Az:787:TYR:HB3	2.28	0.63
4:AK:14:LEU:HD21	4:AK:35:LEU:CD1	2.26	0.63
7:AM:13:ASP:C	7:AM:16:THR:CB	2.49	0.63
8:AS:46:ARG:HH12	14:AT:50:GLU:HA	1.62	0.63
10:AN:5:HIS:CD2	10:AN:121:ARG:NE	2.66	0.63
12:AR:71:ILE:O	12:AR:75:GLU:HG3	1.97	0.63
13:AP:10:ARG:HH21	13:AP:11:THR:HG21	1.61	0.63
13:AP:83:MET:HB3	13:AP:116:LEU:CD1	2.28	0.63
15:AB:113:MET:HE3	15:AB:211:PHE:HZ	1.61	0.63
17:AV:56:CYS:SG	17:AV:59:ILE:HG13	2.38	0.63
19:AZ:65:TYR:HD2	19:AZ:68:ILE:CG1	2.11	0.63
23:AD:74:GLN:HB2	23:AD:84:VAL:HG12	1.80	0.63
24:Ae:31:ARG:CB	24:Ae:31:ARG:HH21	2.04	0.63
26:AJ:16:PRO:HD2	26:AJ:44:TRP:CH2	2.32	0.63
26:AJ:162:ARG:O	26:AJ:163:SER:C	2.41	0.63
27:AE:133:THR:O	27:AE:134:LYS:CB	2.46	0.63
28:AC:135:GLY:CA	28:AC:165:VAL:HG22	2.29	0.63
29:AG:62:PRO:HG2	29:AG:83:CYS:SG	2.38	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:296:ILE:CG2	35:Ah:298:ASN:ND2	2.61	0.63
38:Cz:111:LEU:CG	38:Cz:143:ASN:HB2	2.27	0.63
40:CK:94:LYS:HA	40:CK:96:LYS:HD2	1.75	0.63
41:CO:43:ILE:HG22	41:CO:44:SER:O	1.98	0.63
43:CV:65:VAL:HG23	43:CV:77:HIS:CE1	2.32	0.63
43:CV:110:GLY:HA2	43:CV:129:TRP:CZ3	2.29	0.63
45:Ca:119:LYS:HA	45:Ca:140:VAL:CG2	2.29	0.63
46:CN:46:ASP:CA	46:CN:50:ARG:NH1	2.61	0.63
47:CI:164:LYS:HE3	47:CI:166:HIS:CE1	2.32	0.63
48:CD:123:VAL:HG22	48:CD:248:ARG:NH2	2.12	0.63
49:CQ:41:SER:C	49:CQ:43:PHE:N	2.55	0.63
50:CR:106:LEU:HB3	50:CR:120:TYR:CD1	2.32	0.63
51:CA:159:SER:HG	51:CA:162:ASN:CG	2.05	0.63
55:CU:63:ILE:HD13	55:CU:72:VAL:HA	1.80	0.63
56:CX:57:GLN:O	56:CX:58:PRO:HB2	1.96	0.63
56:CX:76:ILE:CD1	56:CX:104:ALA:HB3	2.28	0.63
56:CX:87:MET:CA	56:CX:90:ILE:HD11	2.18	0.63
57:CY:35:SER:HA	57:CY:105:VAL:HG21	1.80	0.63
61:Ch:28:LEU:O	61:Ch:32:ARG:HG2	1.98	0.63
62:Cb:10:HIS:O	62:Cb:11:ASN:HB3	1.96	0.63
63:CB:282:LYS:C	63:CB:333:LEU:HD11	2.23	0.63
63:CB:301:ASN:CB	63:CB:304:SER:OG	2.45	0.63
63:CB:356:LYS:C	63:CB:359:ALA:O	2.42	0.63
66:Cd:96:GLU:O	66:Cd:97:ASP:C	2.41	0.63
68:Cf:46:ARG:NH2	68:Cf:71:TRP:HB3	2.12	0.63
73:Cl:6:THR:O	73:Cl:8:ARG:N	2.30	0.63
76:Cn:3:ALA:C	76:Cn:6:ARG:HG3	2.24	0.63
77:Cp:36:LYS:HZ1	77:Cp:46:LYS:NZ	1.96	0.63
81:CE:138:ARG:O	81:CE:139:LYS:HB2	1.98	0.63
81:CE:162:VAL:HG13	81:CE:177:GLY:N	2.12	0.63
81:CE:239:LYS:HA	85:A5:4939:C:N3	2.13	0.63
82:CG:183:ILE:HG22	82:CG:184:ILE:CA	2.07	0.63
84:Cu:7:TYR:OH	84:Cu:23:ILE:HD13	1.99	0.63
1:Az:58:ASP:CG	1:Az:69:THR:HG23	2.20	0.63
1:Az:58:ASP:C	1:Az:63:GLU:CD	2.66	0.63
1:Az:126:LEU:HD12	1:Az:353:MET:HE1	1.79	0.63
2:Ag:4:GLN:HE21	2:Ag:268:ASP:CG	2.05	0.63
2:Ag:51:ASN:HB2	2:Ag:53:GLY:O	1.97	0.63
3:AU:59:LYS:CB	3:AU:84:ILE:CG2	2.61	0.63
7:AM:115:GLY:O	7:AM:116:LYS:CB	2.44	0.63
7:AM:124:ILE:C	7:AM:127:TYR:CD2	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:54:LYS:HD3	8:AS:58:GLU:OE1	1.97	0.63
8:AS:120:HIS:NE2	13:AP:123:TYR:CZ	2.66	0.63
10:AN:12:SER:C	10:AN:13:GLN:CG	2.65	0.63
10:AN:16:LEU:CD2	10:AN:17:PRO:CD	2.74	0.63
10:AN:137:PRO:O	10:AN:138:ASN:ND2	2.31	0.63
13:AP:32:GLN:HA	13:AP:35:GLN:CD	2.23	0.63
13:AP:39:ALA:CA	13:AP:42:ARG:HE	2.09	0.63
13:AP:53:GLN:O	13:AP:56:LEU:HB2	1.97	0.63
15:AB:181:LEU:O	15:AB:185:VAL:HG23	1.97	0.63
16:AA:5:LEU:C	16:AA:5:LEU:CD2	2.61	0.63
16:AA:60:LEU:C	16:AA:60:LEU:CD1	2.71	0.63
16:AA:196:GLU:OE2	16:AA:196:GLU:HA	1.97	0.63
17:AV:3:ASN:OD1	17:AV:7:GLU:CB	2.45	0.63
18:AY:19:GLN:HG2	18:AY:81:TYR:CG	2.32	0.63
25:Af:86:THR:OG1	25:Af:87:THR:N	2.29	0.63
27:AE:191:ARG:NE	27:AE:245:ARG:HD3	2.13	0.63
29:AG:19:ASP:O	29:AG:20:ASP:CG	2.42	0.63
30:AF:134:VAL:CG1	30:AF:136:ARG:HH21	2.09	0.63
31:AH:14:GLU:CG	31:AH:16:PRO:HB2	2.29	0.63
32:AW:26:LEU:O	32:AW:26:LEU:CD1	2.39	0.63
32:AW:128:PHE:HE1	32:AW:130:PHE:CE2	2.09	0.63
33:AI:112:TRP:CH2	33:AI:117:TYR:CE2	2.86	0.63
34:AQ:34:VAL:HG21	34:AQ:39:LEU:CD2	2.22	0.63
38:Cz:59:PRO:HD2	38:Cz:153:SER:HA	1.79	0.63
38:Cz:60:ARG:HB3	38:Cz:171:HIS:ND1	2.13	0.63
39:Cq:80:PRO:CG	39:Cq:81:HIS:ND1	2.61	0.63
39:Cq:90:PHE:C	39:Cq:91:THR:CG2	2.72	0.63
41:CO:178:ARG:HA	44:CM:127:VAL:HG22	1.81	0.63
44:CM:34:ASN:C	44:CM:35:ARG:HG2	2.23	0.63
44:CM:119:ARG:CG	44:CM:120:ASN:N	2.60	0.63
45:Ca:84:GLU:CB	45:Ca:87:ARG:CD	2.75	0.63
46:CN:72:LYS:HE3	46:CN:90:ASN:HD22	0.61	0.63
46:CN:138:PHE:HB3	46:CN:143:ARG:HH22	1.61	0.63
47:CI:77:VAL:HG13	47:CI:82:ARG:HD2	1.81	0.63
48:CD:86:TYR:CE1	48:CD:247:ILE:HA	2.34	0.63
52:CS:73:LEU:C	52:CS:75:VAL:H	2.06	0.63
56:CX:76:ILE:HG23	56:CX:77:ILE:HG13	1.81	0.63
60:Cr:72:LYS:O	60:Cr:72:LYS:HG3	1.98	0.63
60:Cr:78:VAL:C	60:Cr:81:THR:H	2.04	0.63
61:Ch:86:LYS:CD	61:Ch:87:LYS:H	2.12	0.63
63:CB:24:ARG:O	63:CB:25:HIS:C	2.40	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:69:MET:HE3	67:Ce:75:ARG:HH21	1.47	0.63
68:Cf:104:MET:HB3	68:Cf:106:TYR:CE2	2.33	0.63
69:Cg:35:THR:HG23	69:Cg:36:LYS:HE3	1.81	0.63
74:CC:209:ILE:HD11	74:CC:227:ILE:HD11	1.79	0.63
79:CJ:17:ILE:HD11	79:CJ:83:LEU:HD12	1.80	0.63
79:CJ:22:LEU:HD22	79:CJ:130:PHE:CZ	2.10	0.63
79:CJ:165:TRP:CZ2	79:CJ:169:LYS:HE3	2.32	0.63
81:CE:144:ILE:HG23	81:CE:145:THR:H	1.63	0.63
82:CG:71:TYR:O	82:CG:73:ARG:N	2.31	0.63
82:CG:143:VAL:HG12	82:CG:146:LEU:HD11	1.80	0.63
83:Cs:43:TRP:C	83:Cs:47:PHE:CD2	2.72	0.63
85:A5:741:C:H42	85:A5:923:C:H42	1.43	0.63
1:Az:207:PRO:HB2	1:Az:261:TRP:CG	2.33	0.63
2:Ag:4:GLN:C	2:Ag:5:MET:HE2	2.23	0.63
2:Ag:179:LEU:HD23	2:Ag:179:LEU:N	2.13	0.63
5:AO:98:ARG:HG3	5:AO:133:THR:HA	1.81	0.63
7:AM:11:VAL:O	7:AM:12:MET:HB3	1.99	0.63
7:AM:45:ARG:NH1	35:Ah:303:LYS:HG2	2.13	0.63
7:AM:124:ILE:HG13	7:AM:125:GLU:N	2.13	0.63
11:AL:40:ILE:HG23	11:AL:41:GLY:O	1.99	0.63
12:AR:42:PRO:CD	12:AR:43:SER:H	2.07	0.63
13:AP:10:ARG:HE	13:AP:11:THR:CA	2.11	0.63
13:AP:65:LYS:HG3	13:AP:66:GLU:N	2.14	0.63
13:AP:111:MET:C	13:AP:114:HIS:HD2	2.06	0.63
16:AA:40:LYS:HD3	16:AA:41:ARG:H	1.62	0.63
16:AA:139:TYR:C	16:AA:140:VAL:HG23	2.24	0.63
16:AA:186:ARG:HH11	16:AA:186:ARG:C	1.99	0.63
16:AA:193:HIS:ND1	16:AA:194:PRO:HD2	2.12	0.63
17:AV:80:SER:CB	17:AV:81:LYS:HE2	2.27	0.63
18:AY:117:VAL:CG2	18:AY:124:ASN:OD1	2.46	0.63
26:AJ:103:GLU:O	26:AJ:107:GLU:HG3	1.98	0.63
28:AC:73:MET:CE	28:AC:96:PHE:CZ	2.81	0.63
28:AC:169:TYR:OH	28:AC:176:LYS:C	2.40	0.63
29:AG:102:VAL:HG22	29:AG:109:LEU:HD21	1.79	0.63
30:AF:42:LYS:HE3	30:AF:43:GLU:CA	2.27	0.63
34:AQ:12:VAL:HG11	34:AQ:90:LYS:CB	2.28	0.63
34:AQ:54:PRO:CG	34:AQ:88:ILE:CD1	2.70	0.63
36:B2:940:U:H3	36:B2:1002:U:H3	1.46	0.63
38:Cz:204:LEU:HD22	38:Cz:216:LEU:CG	2.28	0.63
40:CK:147:HIS:CB	40:CK:148:PRO:HD3	2.25	0.63
41:CO:177:LEU:O	44:CM:130:LEU:CD2	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:130:LYS:HG3	42:CL:131:PRO:HD2	1.81	0.63
45:Ca:120:GLN:HG2	45:Ca:121:PRO:HD3	0.69	0.63
46:CN:31:ARG:HH11	46:CN:31:ARG:HB2	1.62	0.63
46:CN:49:ARG:HH22	85:A5:151:G:H3'	1.64	0.63
48:CD:69:ILE:HG22	53:CT:31:MET:CB	2.28	0.63
49:CQ:6:ARG:HH22	64:CF:113:ARG:C	2.06	0.63
49:CQ:30:LYS:HE3	60:Cr:8:MET:CE	2.29	0.63
49:CQ:144:LYS:HE3	49:CQ:144:LYS:CA	2.28	0.63
50:CR:132:PHE:CD1	50:CR:137:ILE:CD1	2.82	0.63
50:CR:176:ARG:O	50:CR:180:LYS:CE	2.47	0.63
52:CS:2:LYS:HZ1	52:CS:43:ARG:CB	2.11	0.63
52:CS:164:LYS:CE	52:CS:165:PRO:HD2	2.11	0.63
53:CT:146:LYS:HZ3	53:CT:146:LYS:CB	1.94	0.63
56:CX:117:TYR:O	56:CX:119:ILE:CG2	2.36	0.63
58:CW:76:VAL:C	58:CW:77:LYS:HD3	2.24	0.63
60:Cr:32:LEU:HD22	60:Cr:112:ARG:HH22	1.63	0.63
60:Cr:60:VAL:HG11	60:Cr:85:ASN:OD1	1.97	0.63
63:CB:260:ALA:C	63:CB:261:ARG:CG	2.72	0.63
64:CF:29:LYS:HG3	64:CF:30:ILE:N	2.13	0.63
64:CF:162:ILE:HG22	64:CF:163:ASN:OD1	1.98	0.63
66:Cd:101:LYS:HD3	66:Cd:101:LYS:N	1.94	0.63
67:Ce:9:LYS:CD	67:Ce:69:MET:SD	2.86	0.63
69:Cg:45:ALA:HB1	69:Cg:48:VAL:H	1.64	0.63
74:CC:105:THR:C	74:CC:106:LYS:HD3	2.24	0.63
74:CC:322:LEU:HD22	74:CC:336:ARG:NH2	2.13	0.63
80:CH:19:THR:HG1	80:CH:26:ILE:HG12	1.60	0.63
80:CH:89:ARG:HH21	80:CH:91:LYS:HE3	1.58	0.63
81:CE:152:ILE:HG22	81:CE:160:LYS:O	1.97	0.63
82:CG:157:ILE:CG2	82:CG:167:VAL:HG11	2.28	0.63
83:Cs:19:ASP:OD1	83:Cs:19:ASP:O	2.16	0.63
83:Cs:41:PRO:CD	83:Cs:42:PHE:N	2.59	0.63
84:Cv:7:TYR:CZ	84:Cv:23:ILE:HD13	2.33	0.63
84:Cv:8:LEU:O	84:Cv:12:LEU:HG	1.98	0.63
1:Az:552:LEU:HA	1:Az:555:GLU:OE1	1.99	0.63
5:AO:142:ARG:HH11	20:Aa:27:ALA:CB	2.07	0.63
6:AX:52:LEU:HD21	6:AX:71:ARG:HD3	1.79	0.63
6:AX:90:CYS:HA	6:AX:93:PHE:CD2	2.34	0.63
7:AM:42:LEU:HD11	7:AM:69:LEU:HD21	1.81	0.63
7:AM:78:LYS:O	7:AM:79:VAL:CB	2.47	0.63
12:AR:100:PRO:HG2	12:AR:119:VAL:CG2	2.16	0.63
15:AB:75:GLN:NE2	15:AB:75:GLN:CA	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:Ac:15:THR:HG21	22:Ac:33:GLU:CG	2.16	0.63
26:AJ:170:PRO:HB3	26:AJ:174:LYS:CE	2.27	0.63
26:AJ:177:ASN:C	26:AJ:180:LYS:HB3	2.23	0.63
29:AG:212:LEU:O	29:AG:216:ARG:CG	2.34	0.63
30:AF:44:LYS:CA	30:AF:45:TYR:HD1	2.12	0.63
33:AI:5:ARG:HH21	36:B2:382:C:N4	1.96	0.63
35:Ah:172:ARG:HD3	35:Ah:173:GLY:HA2	0.63	0.63
39:Cq:257:TYR:CE1	84:Cv:42:VAL:HG13	2.33	0.63
40:CK:123:ARG:CD	40:CK:129:ILE:HD12	1.89	0.63
40:CK:147:HIS:HB3	40:CK:148:PRO:CD	2.27	0.63
41:CO:16:LEU:CD2	41:CO:138:LEU:HD21	2.26	0.63
43:CV:92:ASP:N	43:CV:92:ASP:OD1	2.29	0.63
44:CM:89:THR:OG1	44:CM:92:ALA:HB3	1.96	0.63
44:CM:104:MET:CE	44:CM:112:VAL:CG2	2.67	0.63
49:CQ:30:LYS:NZ	60:Cr:8:MET:CE	2.46	0.63
49:CQ:77:ASN:HB2	49:CQ:78:LYS:HE2	1.81	0.63
50:CR:154:LEU:O	50:CR:158:GLN:HG3	1.99	0.63
52:CS:43:ARG:O	52:CS:47:PHE:HD2	1.81	0.63
55:CU:105:ASN:ND2	55:CU:111:GLU:OE1	2.31	0.63
56:CX:78:LYS:HE3	56:CX:101:ASP:CA	2.27	0.63
56:CX:80:PRO:HD2	61:Ch:33:VAL:CG2	2.28	0.63
58:CW:47:ARG:NH1	58:CW:58:LYS:HD3	2.14	0.63
58:CW:91:MET:O	58:CW:95:ASN:ND2	2.31	0.63
60:Cr:10:VAL:HG12	60:Cr:10:VAL:O	1.98	0.63
60:Cr:33:LYS:HB2	60:Cr:33:LYS:NZ	2.14	0.63
60:Cr:71:ARG:CB	60:Cr:79:ARG:HD2	2.28	0.63
63:CB:365:LEU:N	63:CB:365:LEU:HD23	2.12	0.63
70:Ci:60:LEU:O	70:Ci:64:SER:OG	2.14	0.63
74:CC:6:PRO:O	74:CC:7:LEU:HB3	1.98	0.63
74:CC:128:LEU:CD2	74:CC:240:LEU:CD1	2.77	0.63
78:Co:23:VAL:C	78:Co:24:THR:CG2	2.70	0.63
78:Co:44:LYS:O	78:Co:44:LYS:HG3	1.96	0.63
85:A5:1820:C:N4	85:A5:1822:U:H1'	2.13	0.63
1:Az:638:LYS:HD2	1:Az:638:LYS:H	1.62	0.63
1:Az:753:GLU:CD	1:Az:782:PHE:CE1	2.77	0.63
1:Az:845:LYS:HE3	1:Az:846:GLU:CA	2.28	0.63
4:AK:57:TYR:CD1	4:AK:75:GLY:HA2	2.33	0.63
5:AO:72:TYR:CE1	5:AO:76:LEU:HD11	2.33	0.63
6:AX:41:PHE:HZ	6:AX:102:VAL:HG12	1.64	0.63
6:AX:52:LEU:HD11	6:AX:71:ARG:CB	2.28	0.63
8:AS:89:ASP:O	8:AS:90:VAL:CB	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:113:ARG:HH22	13:AP:114:HIS:HE1	1.47	0.63
10:AN:19:ARG:CA	31:AH:138:GLU:OE2	2.46	0.63
12:AR:98:VAL:HG22	16:AA:19:LEU:HD11	1.80	0.63
17:AV:29:HIS:HE1	28:AC:85:SER:C	2.07	0.63
18:AY:58:PHE:CE1	18:AY:72:PHE:CD2	2.86	0.63
21:Ab:8:LEU:CD2	32:AW:62:VAL:HB	2.03	0.63
23:AD:59:LEU:HD12	23:AD:60:GLY:O	1.99	0.63
25:Af:130:VAL:HG11	25:Af:143:LYS:HG2	1.80	0.63
26:AJ:48:PHE:HE1	26:AJ:52:LYS:CE	1.87	0.63
27:AE:49:ARG:NH2	27:AE:50:ASN:HD21	1.97	0.63
27:AE:75:LYS:O	27:AE:76:VAL:O	2.17	0.63
28:AC:157:LEU:O	28:AC:160:LEU:HD23	1.95	0.63
29:AG:131:ARG:H	58:CW:81:ALA:CB	2.12	0.63
31:AH:158:LEU:HD11	31:AH:187:PHE:CE1	2.33	0.63
32:AW:41:MET:HG2	32:AW:129:PHE:HD2	1.63	0.63
32:AW:65:LEU:HD12	32:AW:65:LEU:O	1.98	0.63
33:AI:155:ASN:C	33:AI:157:LYS:N	2.56	0.63
35:Ah:140:LYS:O	35:Ah:142:LEU:N	2.31	0.63
38:Cz:100:VAL:O	38:Cz:102:LYS:N	2.32	0.63
39:Cq:51:ALA:CB	39:Cq:91:THR:CG2	2.76	0.63
39:Cq:225:VAL:CG2	84:Cu:55:ILE:CG1	2.76	0.63
41:CO:184:ASN:O	41:CO:188:LYS:HD2	1.98	0.63
44:CM:20:HIS:CE1	44:CM:45:VAL:HA	2.34	0.63
48:CD:51:MET:SD	48:CD:173:ILE:CD1	2.84	0.63
48:CD:92:LEU:O	48:CD:92:LEU:CD1	2.46	0.63
49:CQ:75:ARG:HD3	49:CQ:75:ARG:N	2.13	0.63
49:CQ:83:VAL:O	49:CQ:83:VAL:HG12	1.99	0.63
50:CR:55:VAL:O	50:CR:57:VAL:HG13	1.99	0.63
50:CR:76:MET:CE	50:CR:76:MET:CA	2.62	0.63
50:CR:109:TYR:HH	50:CR:139:MET:HE2	1.62	0.63
50:CR:117:ARG:HH11	85:A5:2663:G:H4'	1.64	0.63
52:CS:4:SER:O	52:CS:35:PRO:HG3	1.99	0.63
59:CZ:76:ASN:HD22	59:CZ:78:ASN:HB2	1.56	0.63
63:CB:80:GLU:CD	63:CB:323:TYR:OH	2.42	0.63
63:CB:142:GLY:HA3	63:CB:147:GLU:CB	2.28	0.63
64:CF:118:PHE:HE2	64:CF:215:SER:OG	1.81	0.63
65:Cc:59:GLU:O	65:Cc:63:TYR:HD1	1.80	0.63
65:Cc:96:ILE:CG2	65:Cc:99:PRO:HD3	2.29	0.63
77:Cp:47:MET:SD	77:Cp:57:CYS:HA	2.38	0.63
77:Cp:48:LYS:CD	77:Cp:49:ARG:H	2.10	0.63
77:Cp:48:LYS:HD3	77:Cp:49:ARG:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:12:MET:HE1	86:A7:54:A:C4	2.32	0.63
79:CJ:32:ARG:HG3	79:CJ:35:ARG:HH22	1.62	0.63
81:CE:208:ILE:O	81:CE:209:PRO:C	2.41	0.63
81:CE:215:ALA:C	81:CE:218:LYS:HE2	2.24	0.63
82:CG:81:ASN:O	82:CG:84:THR:OG1	2.16	0.63
83:Cs:13:ALA:O	83:Cs:17:HIS:HD2	1.81	0.63
1:Az:14:ASP:O	1:Az:16:LYS:HE3	1.98	0.63
1:Az:616:ASP:OD1	1:Az:621:GLU:HB2	1.98	0.63
1:Az:801:ARG:HD2	1:Az:802:SER:HA	1.81	0.63
2:Ag:48:ASP:C	2:Ag:49:GLU:CD	2.67	0.63
5:AO:47:LEU:HB3	15:AB:67:PHE:CD1	2.34	0.63
8:AS:80:PRO:CG	8:AS:82:TRP:CE2	2.82	0.63
16:AA:205:ARG:O	16:AA:206:ASP:HB2	1.97	0.63
17:AV:12:TYR:CZ	28:AC:248:TYR:CE1	2.87	0.63
21:Ab:83:GLN:C	21:Ab:84:HIS:O	2.38	0.63
23:AD:112:GLY:H	23:AD:113:LEU:CD1	2.08	0.63
27:AE:86:PHE:CE2	27:AE:87:MET:HG2	2.34	0.63
28:AC:74:LYS:CG	28:AC:269:PHE:CE1	2.77	0.63
29:AG:25:ARG:O	29:AG:27:PHE:N	2.32	0.63
29:AG:135:PRO:CG	29:AG:144:LEU:CD2	2.76	0.63
29:AG:179:LEU:C	29:AG:180:VAL:HG23	2.24	0.63
36:B2:1472:C:N4	36:B2:1475:G:C8	2.65	0.63
39:Cq:120:GLU:N	39:Cq:163:THR:HG23	2.12	0.63
42:CL:76:PHE:CZ	42:CL:117:LEU:CD2	2.82	0.63
44:CM:34:ASN:O	44:CM:35:ARG:CB	2.47	0.63
44:CM:94:LYS:HG2	85:A5:4872:G:N1	2.14	0.63
48:CD:186:GLU:O	48:CD:186:GLU:CD	2.42	0.63
50:CR:99:MET:CE	50:CR:128:LYS:HA	2.20	0.63
51:CA:220:GLY:O	51:CA:221:LYS:CB	2.46	0.63
51:CA:232:GLY:O	51:CA:234:LYS:N	2.31	0.63
57:CY:21:ALA:HB3	57:CY:78:TYR:OH	1.98	0.63
57:CY:27:ARG:HH22	57:CY:28:LYS:HZ1	1.45	0.63
57:CY:91:ASN:OD1	57:CY:91:ASN:N	2.30	0.63
59:CZ:11:VAL:HG11	59:CZ:80:LEU:HB3	0.71	0.63
60:Cr:46:ARG:HG2	60:Cr:68:SER:CB	2.29	0.63
61:Ch:104:THR:O	61:Ch:107:GLN:HB2	1.99	0.63
63:CB:25:HIS:O	63:CB:222:VAL:CG2	2.47	0.63
63:CB:194:LEU:O	63:CB:198:ARG:HG2	1.99	0.63
65:Cc:57:LYS:O	65:Cc:61:GLU:CD	2.39	0.63
65:Cc:78:ASN:O	65:Cc:91:VAL:HG23	1.99	0.63
67:Ce:22:ARG:CD	67:Ce:31:ILE:CG2	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:18:LEU:HD21	85:A5:1915:C:C5	2.33	0.63
70:Ci:68:ARG:NH2	70:Ci:72:PHE:CZ	2.67	0.63
74:CC:6:PRO:C	74:CC:24:LEU:HD21	2.24	0.63
74:CC:22:VAL:HG22	74:CC:258:ARG:CZ	1.98	0.63
74:CC:150:LEU:HA	74:CC:151:PRO:C	2.23	0.63
78:Co:65:LYS:N	78:Co:65:LYS:CD	2.50	0.63
81:CE:149:ILE:HG23	81:CE:197:THR:CB	2.26	0.63
81:CE:165:LEU:HB2	81:CE:174:LEU:HD23	1.81	0.63
82:CG:229:ARG:HG2	82:CG:233:ILE:HD11	1.81	0.63
1:Az:42:LYS:CE	1:Az:79:TYR:HH	2.02	0.63
1:Az:73:THR:C	1:Az:104:ASP:HB2	2.24	0.63
1:Az:228:PHE:HD1	1:Az:232:TYR:CE2	2.12	0.63
1:Az:275:LYS:CE	1:Az:276:SER:HA	2.22	0.63
1:Az:700:VAL:CG1	1:Az:702:PHE:CE2	2.82	0.63
2:Ag:37:ASP:O	2:Ag:38:LYS:HB2	1.99	0.63
2:Ag:143:GLN:NE2	2:Ag:144:ASP:CA	2.56	0.63
5:AO:41:PHE:HD1	5:AO:57:THR:HG22	1.63	0.63
5:AO:131:ASP:OD2	20:Aa:67:LEU:CD2	2.45	0.63
10:AN:38:TYR:CE1	10:AN:78:LYS:CG	2.81	0.63
10:AN:93:LYS:HG3	10:AN:150:VAL:HG11	1.81	0.63
13:AP:41:GLN:HE21	13:AP:44:ARG:HH21	1.47	0.63
15:AB:150:ILE:HG23	15:AB:150:ILE:O	1.97	0.63
16:AA:120:ARG:NH2	28:AC:267:GLN:OE1	2.31	0.63
18:AY:56:PHE:HB3	18:AY:58:PHE:HE2	1.64	0.63
18:AY:119:GLY:O	18:AY:120:THR:C	2.42	0.63
21:Ab:11:SER:O	21:Ab:15:GLU:HG3	1.98	0.63
27:AE:36:HIS:C	27:AE:41:CYS:SG	2.82	0.63
27:AE:49:ARG:CB	27:AE:55:ALA:HB3	2.27	0.63
29:AG:176:ILE:CG2	29:AG:179:LEU:HD22	1.95	0.63
34:AQ:112:LEU:O	34:AQ:116:ASP:HA	1.99	0.63
34:AQ:112:LEU:HD13	34:AQ:120:LEU:HD21	1.80	0.63
42:CL:150:LEU:O	42:CL:151:THR:HG22	1.98	0.63
44:CM:63:LYS:CE	44:CM:64:PHE:CA	2.67	0.63
44:CM:77:TRP:O	44:CM:82:ILE:CD1	2.46	0.63
48:CD:190:PHE:CE2	48:CD:192:ALA:CB	2.81	0.63
48:CD:260:GLU:HG2	48:CD:261:VAL:HG23	1.80	0.63
49:CQ:16:LYS:N	49:CQ:16:LYS:CD	2.48	0.63
51:CA:247:ARG:O	51:CA:250:LYS:HB3	1.99	0.63
52:CS:26:PRO:O	52:CS:27:LEU:C	2.41	0.63
55:CU:21:PHE:HE1	55:CU:80:LYS:HE2	1.15	0.63
55:CU:120:ASP:O	55:CU:121:GLU:CG	2.44	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:69:ASN:OD1	56:CX:69:ASN:N	2.30	0.63
59:CZ:7:PRO:CD	59:CZ:8:GLY:N	2.56	0.63
60:Cr:28:GLU:N	60:Cr:31:ASN:ND2	2.46	0.63
61:Ch:21:LEU:HD12	61:Ch:54:ILE:HG23	1.81	0.63
63:CB:159:VAL:CG1	63:CB:184:GLN:HE22	2.11	0.63
63:CB:303:ALA:HB2	63:CB:314:ILE:CA	2.25	0.63
66:Cd:18:ASN:O	66:Cd:20:VAL:HB	1.98	0.63
67:Ce:69:MET:HE3	67:Ce:75:ARG:NE	2.14	0.63
68:Cf:35:ALA:N	68:Cf:38:GLU:OE1	2.32	0.63
69:Cg:11:LEU:HD23	69:Cg:13:TYR:H	1.64	0.63
70:Ci:73:ILE:HD12	70:Ci:87:ARG:CG	2.28	0.63
70:Ci:85:ARG:CD	70:Ci:85:ARG:H	2.11	0.63
74:CC:218:ILE:CA	74:CC:229:LEU:CD1	2.76	0.63
74:CC:233:SER:HA	74:CC:263:LEU:CG	2.27	0.63
80:CH:89:ARG:HG3	80:CH:147:GLU:HG2	1.80	0.63
82:CG:240:ASN:O	82:CG:241:VAL:CB	2.46	0.63
83:Cs:54:VAL:HG11	83:Cs:59:LEU:CD1	2.20	0.63
1:Az:42:LYS:CD	1:Az:79:TYR:OH	2.46	0.63
1:Az:815:ASP:CG	1:Az:816:HIS:ND1	2.56	0.63
4:AK:17:LYS:NZ	35:Ah:287:GLU:HA	2.13	0.63
4:AK:65:ARG:HH11	4:AK:65:ARG:HB2	1.63	0.63
7:AM:56:CYS:SG	7:AM:57:ASP:N	2.71	0.63
8:AS:58:GLU:HB2	8:AS:59:LEU:HD13	1.80	0.63
10:AN:25:TRP:CD1	21:Ab:83:GLN:HB3	2.33	0.63
10:AN:40:LEU:HB3	10:AN:45:LEU:HD12	1.79	0.63
15:AB:87:ILE:HD12	15:AB:220:LYS:HZ3	1.63	0.63
16:AA:120:ARG:CD	28:AC:266:TYR:CE2	2.61	0.63
16:AA:157:VAL:O	17:AV:66:ASP:CG	2.41	0.63
18:AY:114:MET:HE2	18:AY:121:ALA:O	1.99	0.63
20:Aa:45:VAL:HB	20:Aa:53:ILE:CD1	2.29	0.63
23:AD:29:LEU:CB	23:AD:34:TYR:HB2	2.28	0.63
23:AD:218:LEU:C	23:AD:220:THR:HG23	2.24	0.63
30:AF:19:LEU:CD2	30:AF:24:SER:HA	2.28	0.63
30:AF:165:ASN:OD1	30:AF:167:LYS:HB2	1.98	0.63
31:AH:51:ILE:HD11	31:AH:176:VAL:HA	1.81	0.63
31:AH:193:GLN:CD	31:AH:193:GLN:N	2.57	0.63
35:Ah:295:ALA:O	35:Ah:296:ILE:HG13	1.98	0.63
36:B2:1822:A:H2'	36:B2:1823:A:H8	1.56	0.63
40:CK:46:ILE:HG22	40:CK:72:GLU:OE2	1.98	0.63
40:CK:61:LYS:HE3	40:CK:72:GLU:HB3	0.67	0.63
41:CO:177:LEU:O	44:CM:130:LEU:HD22	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:145:ASN:O	46:CN:149:GLN:CG	2.47	0.63
48:CD:76:CYS:HB2	48:CD:109:LEU:HD12	1.80	0.63
48:CD:129:GLU:OE1	48:CD:177:THR:HG22	1.96	0.63
49:CQ:95:VAL:CG2	49:CQ:116:ALA:HB2	2.15	0.63
49:CQ:110:ARG:O	49:CQ:114:LEU:HG	1.98	0.63
49:CQ:187:LYS:C	49:CQ:188:ASN:O	2.39	0.63
55:CU:23:LEU:CD2	55:CU:110:TYR:HB2	2.29	0.63
56:CX:62:ARG:HH11	56:CX:62:ARG:CG	2.06	0.63
60:Cr:15:SER:OG	74:CC:139:SER:O	2.17	0.63
62:Cb:51:LYS:HE2	62:Cb:51:LYS:HA	1.79	0.63
63:CB:189:THR:CG2	63:CB:192:GLU:CB	2.69	0.63
63:CB:381:THR:HG23	63:CB:384:GLU:N	2.10	0.63
74:CC:132:ALA:O	74:CC:133:LEU:HB3	1.98	0.63
74:CC:140:LYS:CD	74:CC:245:HIS:O	2.47	0.63
78:Co:34:TYR:HA	78:Co:39:ARG:HG3	1.80	0.63
1:Az:120:ARG:CZ	1:Az:496:VAL:O	2.47	0.62
1:Az:448:GLN:NE2	1:Az:448:GLN:C	2.57	0.62
1:Az:751:CYS:SG	1:Az:756:VAL:HG22	2.39	0.62
1:Az:801:ARG:HD2	1:Az:802:SER:CA	2.29	0.62
1:Az:855:LEU:HD23	1:Az:856:ASP:CA	2.27	0.62
2:Ag:17:TRP:CZ3	2:Ag:36:ARG:NH2	2.67	0.62
2:Ag:32:LEU:HB2	2:Ag:71:ILE:CD1	2.16	0.62
3:Au:103:SER:C	3:Au:104:ILE:O	2.38	0.62
5:AO:47:LEU:HB3	15:AB:67:PHE:HD1	1.64	0.62
6:AX:105:PHE:CG	6:AX:112:VAL:HG21	2.32	0.62
6:AX:126:ALA:CA	6:AX:128:VAL:HB	2.28	0.62
11:AL:118:ARG:CG	11:AL:119:ASP:N	2.62	0.62
13:AP:11:THR:O	13:AP:12:PHE:CB	2.33	0.62
14:AT:44:GLU:HG3	36:B2:1538:C:H4'	1.81	0.62
15:AB:156:ALA:HB1	15:AB:160:GLN:OE1	1.98	0.62
16:AA:17:LYS:CE	16:AA:17:LYS:H	2.08	0.62
18:AY:58:PHE:CE1	18:AY:72:PHE:HD2	2.17	0.62
19:AZ:44:LEU:HD13	19:AZ:44:LEU:O	1.95	0.62
23:AD:67:ARG:CG	23:AD:67:ARG:NH1	2.56	0.62
25:Af:140:TYR:OH	25:Af:146:LEU:C	2.39	0.62
27:AE:43:PRO:HA	27:AE:82:TYR:O	2.00	0.62
27:AE:260:GLN:O	27:AE:261:SER:OG	2.13	0.62
28:AC:166:ARG:CZ	28:AC:255:LEU:HD11	2.29	0.62
31:AH:10:LYS:N	31:AH:11:PRO:HD3	2.11	0.62
35:Ah:150:GLU:CA	35:Ah:153:VAL:CG1	2.72	0.62
38:Cz:59:PRO:O	38:Cz:61:PRO:HD3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:130:LEU:HD23	39:Cq:133:GLU:OE1	1.97	0.62
39:Cq:260:PRO:N	39:Cq:264:LYS:CB	2.61	0.62
40:CK:78:SER:HA	40:CK:117:ARG:NH1	2.11	0.62
41:CO:122:ALA:CA	52:CS:161:ARG:HB2	2.26	0.62
42:CL:156:PRO:O	42:CL:157:VAL:CB	2.46	0.62
47:CI:21:ARG:HD2	47:CI:22:PHE:CD2	2.34	0.62
47:CI:86:HIS:HB3	47:CI:139:ARG:HG2	1.80	0.62
48:CD:20:PHE:CE2	48:CD:30:TYR:CE2	2.82	0.62
48:CD:112:ARG:HG2	48:CD:112:ARG:O	1.98	0.62
48:CD:261:VAL:HG11	48:CD:262:LYS:HA	1.68	0.62
49:CQ:144:LYS:CA	49:CQ:144:LYS:CE	2.76	0.62
52:CS:51:LEU:HD11	53:CT:152:GLU:O	1.98	0.62
55:CU:48:LYS:HE2	55:CU:52:LYS:CG	2.16	0.62
58:CW:24:THR:OG1	58:CW:25:ASP:N	2.29	0.62
58:CW:77:LYS:C	58:CW:78:PHE:CG	2.77	0.62
59:CZ:105:ALA:O	59:CZ:108:ARG:CG	2.42	0.62
61:Ch:48:ARG:HH11	61:Ch:48:ARG:HB2	1.63	0.62
63:CB:18:PRO:O	63:CB:20:LYS:HB3	1.99	0.62
64:CF:236:ARG:HD2	64:CF:240:ILE:HA	1.80	0.62
65:Cc:11:LEU:CB	65:Cc:12:GLU:HB2	2.29	0.62
65:Cc:96:ILE:HG22	65:Cc:99:PRO:HD3	1.79	0.62
67:Ce:91:CYS:O	67:Ce:93:LYS:N	2.32	0.62
68:Cf:53:ALA:HA	68:Cf:54:LYS:HD3	0.69	0.62
72:Ck:2:PRO:CB	85:A5:2692:U:H2'	2.27	0.62
72:Ck:25:ILE:CD1	72:Ck:34:PHE:CZ	2.82	0.62
74:CC:315:LYS:CG	74:CC:316:LYS:H	1.99	0.62
75:Cm:111:ARG:O	75:Cm:111:ARG:CG	2.40	0.62
77:Cp:47:MET:HE1	77:Cp:56:HIS:CA	2.29	0.62
80:CH:89:ARG:NH2	80:CH:91:LYS:NZ	2.47	0.62
80:CH:93:ARG:HG3	80:CH:93:ARG:NH1	2.14	0.62
82:CG:28:VAL:CA	82:CG:31:LEU:HD23	2.03	0.62
82:CG:35:ARG:HA	82:CG:36:PRO:HD3	1.81	0.62
84:Cv:20:ALA:O	84:Cv:24:LYS:HG3	1.99	0.62
85:A5:1245:C:C5	85:A5:1269:G:C6	2.86	0.62
85:A5:4349:C:H3'	85:A5:4350:C:H5'	1.81	0.62
1:Az:207:PRO:CG	1:Az:261:TRP:CE2	2.81	0.62
1:Az:325:SER:C	1:Az:327:ASP:H	2.05	0.62
1:Az:449:ARG:NE	1:Az:460:PRO:HB3	2.14	0.62
1:Az:749:ILE:HD12	1:Az:759:ILE:CG1	2.28	0.62
1:Az:775:GLN:OE1	1:Az:778:GLY:HA2	1.98	0.62
1:Az:804:THR:HG21	1:Az:808:ALA:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:69:PRO:O	3:AU:69:PRO:HD2	1.98	0.62
8:AS:108:ARG:NH1	8:AS:112:GLU:OE2	2.32	0.62
10:AN:55:ARG:HH22	21:Ab:51:GLN:CD	2.07	0.62
13:AP:15:PHE:CE2	13:AP:110:GLU:HB3	2.34	0.62
13:AP:100:LYS:HG2	36:B2:1240:A:N6	2.13	0.62
15:AB:73:ASP:OD2	20:Aa:59:PHE:CZ	2.36	0.62
18:AY:17:LEU:CD1	27:AE:64:ILE:HG12	2.29	0.62
18:AY:120:THR:CA	18:AY:122:LYS:HE2	2.29	0.62
19:AZ:99:LEU:CD1	19:AZ:102:LYS:CD	2.72	0.62
21:Ab:81:ARG:HB2	21:Ab:82:LYS:CG	2.29	0.62
22:Ac:46:VAL:HG11	22:Ac:50:VAL:HG23	1.81	0.62
23:AD:3:VAL:O	23:AD:3:VAL:CG1	2.37	0.62
26:AJ:174:LYS:HG3	36:B2:560:A:H5'	1.82	0.62
28:AC:70:VAL:HG21	28:AC:97:PHE:HE2	1.63	0.62
28:AC:130:ILE:HD13	28:AC:159:LYS:CG	2.29	0.62
33:AI:33:ALA:HA	36:B2:379:C:H5'	1.80	0.62
33:AI:67:TRP:CZ2	33:AI:158:ILE:HD11	2.24	0.62
33:AI:80:ASP:OD1	33:AI:94:LYS:HG2	1.98	0.62
34:AQ:28:GLY:HA3	34:AQ:67:ASP:CG	2.24	0.62
34:AQ:30:GLY:CA	34:AQ:66:VAL:O	2.40	0.62
36:B2:306:C:O2'	36:B2:307:G:H5'	1.99	0.62
38:Cz:26:ARG:HG2	38:Cz:210:MET:HG3	1.81	0.62
39:Cq:111:ALA:HB2	39:Cq:183:PHE:CZ	2.30	0.62
39:Cq:171:GLU:HA	39:Cq:174:LEU:CD2	2.29	0.62
39:Cq:220:ARG:HA	39:Cq:220:ARG:NE	2.13	0.62
39:Cq:236:SER:O	39:Cq:237:VAL:C	2.42	0.62
40:CK:1:MET:H2	40:CK:2:PRO:CD	2.11	0.62
40:CK:159:ALA:O	40:CK:163:PRO:HD3	1.98	0.62
44:CM:107:PHE:CD1	81:CE:270:TYR:CE1	2.87	0.62
45:Ca:82:VAL:HG12	45:Ca:86:THR:OG1	1.97	0.62
46:CN:89:VAL:CG1	46:CN:90:ASN:N	2.61	0.62
49:CQ:64:SER:CA	49:CQ:92:VAL:HG21	2.27	0.62
51:CA:61:VAL:HB	51:CA:76:PHE:CE2	2.34	0.62
52:CS:156:HIS:ND1	52:CS:156:HIS:O	2.30	0.62
53:CT:134:PRO:HB3	53:CT:135:PRO:CD	2.26	0.62
54:CP:29:THR:CA	54:CP:32:THR:HG23	2.22	0.62
54:CP:41:ILE:O	54:CP:45:THR:HG23	1.99	0.62
55:CU:24:ASP:OD1	55:CU:26:THR:CG2	2.44	0.62
56:CX:52:LEU:CD1	56:CX:53:ARG:C	2.71	0.62
56:CX:60:TYR:CD2	61:Ch:78:TYR:CB	2.80	0.62
56:CX:81:LEU:HD23	56:CX:99:ILE:CD1	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:15:ARG:HG2	57:CY:15:ARG:HH11	1.64	0.62
58:CW:63:GLN:OE1	58:CW:67:ILE:HD12	1.97	0.62
59:CZ:4:PHE:C	59:CZ:6:LYS:HD3	2.21	0.62
60:Cr:73:PRO:CD	60:Cr:74:ALA:N	2.38	0.62
62:Cb:25:ARG:HB3	62:Cb:27:GLN:NE2	2.14	0.62
63:CB:157:CYS:SG	63:CB:160:ILE:HD11	2.38	0.62
66:Cd:93:ASN:HA	66:Cd:103:TYR:CE1	2.35	0.62
67:Ce:35:TRP:HE1	67:Ce:56:PRO:CG	2.12	0.62
81:CE:212:LEU:HD21	81:CE:216:TYR:CG	2.34	0.62
1:Az:496:VAL:HG23	1:Az:497:MET:N	2.13	0.62
1:Az:518:PRO:CA	6:AX:50:ILE:CD1	2.78	0.62
1:Az:744:ILE:HG23	1:Az:816:HIS:NE2	2.14	0.62
2:Ag:46:THR:OG1	2:Ag:48:ASP:N	2.31	0.62
5:AO:77:ALA:O	5:AO:81:VAL:HG23	1.98	0.62
5:AO:125:LYS:CE	20:Aa:56:ALA:O	2.47	0.62
7:AM:13:ASP:C	7:AM:16:THR:HB	2.13	0.62
9:Ad:45:GLN:C	9:Ad:46:TYR:HD2	2.06	0.62
10:AN:62:GLN:CB	10:AN:65:PHE:CE2	2.82	0.62
14:AT:31:PRO:HB3	14:AT:33:TRP:CE3	2.34	0.62
16:AA:120:ARG:HG2	28:AC:266:TYR:CE2	2.34	0.62
16:AA:169:HIS:HD2	16:AA:203:PHE:CE2	2.17	0.62
19:AZ:48:VAL:CA	19:AZ:83:LEU:HD12	2.29	0.62
23:AD:166:TYR:CE1	23:AD:200:PRO:CB	2.83	0.62
23:AD:202:LYS:HB2	23:AD:203:PRO:HD3	1.81	0.62
24:Ae:31:ARG:HH11	24:Ae:32:ALA:HB2	1.64	0.62
24:Ae:51:LYS:O	24:Ae:52:LYS:CD	2.45	0.62
24:Ae:51:LYS:O	35:Ah:185:PHE:HE2	1.81	0.62
26:AJ:80:ARG:HA	26:AJ:83:ARG:CD	2.28	0.62
27:AE:19:MET:HE1	36:B2:846:G:C2'	2.20	0.62
29:AG:145:PHE:HB3	29:AG:147:LEU:HD13	1.77	0.62
31:AH:23:ILE:CD1	31:AH:27:LEU:HD23	2.12	0.62
31:AH:117:PRO:HD2	31:AH:120:ARG:HD2	1.80	0.62
31:AH:147:LYS:HE3	31:AH:153:LEU:HD11	1.81	0.62
36:B2:839:C:O2'	36:B2:841:G:H4'	2.00	0.62
36:B2:1501:C:H2'	36:B2:1502:C:O4'	1.99	0.62
38:Cz:76:GLU:HG2	38:Cz:144:MET:CB	2.29	0.62
39:Cq:26:LYS:HD2	39:Cq:98:ILE:HD12	1.81	0.62
42:CL:126:LEU:HG	61:Ch:117:ARG:HD3	1.81	0.62
46:CN:41:ARG:HA	46:CN:61:ILE:HD11	1.80	0.62
47:CI:92:HIS:CG	47:CI:94:PHE:CZ	2.88	0.62
51:CA:114:CYS:SG	51:CA:167:GLY:O	2.56	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:120:ARG:HB2	52:CS:122:HIS:CD2	2.34	0.62
56:CX:119:ILE:HD12	56:CX:140:LEU:HD22	1.68	0.62
59:CZ:100:VAL:O	59:CZ:106:LEU:HD23	1.99	0.62
60:Cr:90:LEU:CD2	60:Cr:118:LEU:HD12	2.16	0.62
62:Cb:23:LYS:HB3	62:Cb:24:PRO:HD2	1.81	0.62
66:Cd:68:LEU:O	66:Cd:72:VAL:HG23	1.99	0.62
68:Cf:80:ASN:O	68:Cf:82:GLY:N	2.32	0.62
69:Cg:59:VAL:CG1	69:Cg:63:VAL:HB	2.29	0.62
74:CC:6:PRO:CA	74:CC:24:LEU:HD21	2.29	0.62
74:CC:14:LYS:HE3	74:CC:15:GLY:HA3	1.80	0.62
78:Co:33:LEU:O	78:Co:34:TYR:HB2	1.97	0.62
79:CJ:57:VAL:HG11	79:CJ:60:PHE:CD2	2.33	0.62
81:CE:185:PRO:HB2	81:CE:250:GLN:NE2	2.15	0.62
81:CE:225:PRO:O	81:CE:229:GLU:HB2	1.98	0.62
81:CE:281:ILE:HD12	81:CE:282:TYR:N	2.13	0.62
82:CG:91:THR:O	82:CG:92:ALA:C	2.42	0.62
1:Az:617:ILE:CG1	1:Az:622:VAL:HG23	2.29	0.62
3:AU:106:ILE:O	3:AU:106:ILE:HG12	1.98	0.62
7:AM:71:GLU:C	7:AM:72:HIS:O	2.42	0.62
10:AN:25:TRP:HZ3	21:Ab:45:THR:HG21	1.64	0.62
15:AB:146:ARG:HH11	15:AB:146:ARG:CG	2.12	0.62
16:AA:17:LYS:HE3	16:AA:17:LYS:H	1.65	0.62
16:AA:206:ASP:O	16:AA:207:PRO:O	2.17	0.62
17:AV:4:ASP:HA	28:AC:173:LYS:HZ3	1.63	0.62
17:AV:62:MET:HG3	17:AV:62:MET:O	1.98	0.62
24:Ae:29:THR:O	24:Ae:30:GLY:C	2.42	0.62
24:Ae:46:VAL:CG2	24:Ae:47:PRO:O	2.44	0.62
26:AJ:61:LEU:HD23	26:AJ:98:LEU:HD11	1.74	0.62
26:AJ:91:LYS:CA	26:AJ:96:TYR:CG	2.80	0.62
26:AJ:177:ASN:C	26:AJ:180:LYS:HG2	2.19	0.62
28:AC:169:TYR:CZ	28:AC:177:PRO:N	2.68	0.62
29:AG:80:GLY:O	29:AG:81:HIS:CG	2.52	0.62
29:AG:220:ALA:O	29:AG:224:ARG:CG	2.48	0.62
31:AH:80:VAL:HA	31:AH:83:LEU:HD21	1.81	0.62
31:AH:170:VAL:HA	31:AH:173:PHE:HD2	1.64	0.62
34:AQ:42:ILE:HD11	34:AQ:51:LEU:CD1	2.29	0.62
36:B2:318:A:C5'	36:B2:319:C:OP2	2.41	0.62
37:BC:52:G:H21	38:Cz:44:GLN:HE22	1.47	0.62
38:Cz:95:LYS:HG2	38:Cz:98:LYS:CE	2.29	0.62
46:CN:53:TYR:HE1	46:CN:59:TYR:HB3	1.62	0.62
48:CD:104:LEU:CD2	48:CD:247:ILE:HG21	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:137:GLY:C	48:CD:138:GLN:HG2	2.15	0.62
51:CA:120:PRO:HD3	51:CA:159:SER:OG	2.00	0.62
53:CT:137:GLU:O	64:CF:85:ALA:HA	1.99	0.62
55:CU:62:THR:O	55:CU:63:ILE:HD13	2.00	0.62
57:CY:30:MET:O	57:CY:30:MET:HG2	1.99	0.62
57:CY:54:GLU:O	57:CY:55:VAL:CG2	2.48	0.62
58:CW:35:LYS:HE2	58:CW:51:TRP:CE2	2.34	0.62
59:CZ:4:PHE:C	59:CZ:6:LYS:HG2	2.24	0.62
60:Cr:73:PRO:O	60:Cr:79:ARG:HD2	1.99	0.62
60:Cr:121:GLN:C	60:Cr:123:PRO:CD	2.72	0.62
60:Cr:122:LYS:O	60:Cr:126:VAL:HG23	1.99	0.62
67:Ce:3:ALA:HB3	67:Ce:121:ARG:HH11	1.63	0.62
67:Ce:7:LEU:HD13	67:Ce:73:GLY:C	2.23	0.62
72:Ck:25:ILE:HD11	72:Ck:34:PHE:CZ	2.34	0.62
74:CC:28:PHE:C	74:CC:29:LYS:HD2	2.24	0.62
74:CC:32:ILE:HD11	74:CC:129:ALA:HB3	1.82	0.62
74:CC:148:PRO:CD	74:CC:175:LYS:HG2	2.29	0.62
80:CH:183:GLU:OE1	80:CH:184:LYS:N	2.33	0.62
80:CH:183:GLU:CD	80:CH:184:LYS:N	2.57	0.62
81:CE:117:PRO:O	81:CE:118:THR:C	2.28	0.62
81:CE:138:ARG:HH21	81:CE:171:GLY:N	1.97	0.62
83:Cs:32:ILE:CG2	83:Cs:37:VAL:CB	2.74	0.62
83:Ct:22:THR:H	83:Ct:27:LYS:HZ2	1.45	0.62
1:Az:541:SER:O	1:Az:543:GLU:N	2.31	0.62
1:Az:551:GLU:O	1:Az:555:GLU:HG3	2.00	0.62
1:Az:649:ILE:HG22	1:Az:663:THR:OG1	1.99	0.62
1:Az:742:GLU:HB2	1:Az:820:LEU:HD11	1.79	0.62
2:Ag:20:GLN:NE2	2:Ag:68:ASP:CB	2.61	0.62
2:Ag:265:ILE:HG13	2:Ag:266:ILE:N	2.14	0.62
3:AU:59:LYS:HE3	3:AU:86:LYS:HE2	1.82	0.62
5:AO:20:GLN:HG2	5:AO:21:VAL:C	2.25	0.62
5:AO:47:LEU:O	15:AB:67:PHE:CD1	2.51	0.62
8:AS:58:GLU:HB2	8:AS:59:LEU:CD1	2.30	0.62
13:AP:21:ASP:O	13:AP:25:LEU:N	2.29	0.62
15:AB:87:ILE:CG2	15:AB:101:HIS:CD2	2.77	0.62
15:AB:93:GLY:C	15:AB:94:LYS:HD3	2.23	0.62
16:AA:103:PHE:CZ	16:AA:107:THR:OG1	2.53	0.62
23:AD:31:GLU:HA	23:AD:107:TYR:OH	2.00	0.62
27:AE:176:ASP:O	27:AE:195:ILE:HD12	2.00	0.62
30:AF:42:LYS:O	30:AF:42:LYS:HG2	1.99	0.62
30:AF:103:LEU:HD22	30:AF:178:ILE:CD1	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:112:LEU:O	30:AF:116:ILE:HD11	1.97	0.62
31:AH:66:VAL:CG2	31:AH:97:GLN:O	2.47	0.62
31:AH:135:PHE:HD2	31:AH:136:PRO:CD	2.12	0.62
34:AQ:25:CYS:HG	34:AQ:91:ALA:HB1	1.62	0.62
36:B2:71:G:H3'	36:B2:72:C:H5''	1.82	0.62
36:B2:530:U:C2'	36:B2:531:A:H5'	2.29	0.62
38:Cz:39:LYS:CG	38:Cz:202:ARG:HB2	2.30	0.62
39:Cq:60:MET:HE1	39:Cq:88:PHE:CE2	2.29	0.62
41:CO:22:ILE:CG2	52:CS:166:ARG:CG	2.77	0.62
41:CO:169:ARG:O	41:CO:173:GLN:HB2	1.99	0.62
42:CL:140:SER:HA	42:CL:143:GLU:CG	2.26	0.62
42:CL:151:THR:O	42:CL:151:THR:HG23	1.98	0.62
44:CM:20:HIS:CD2	44:CM:45:VAL:HG13	2.34	0.62
46:CN:47:LYS:HZ2	46:CN:51:LEU:HD11	1.64	0.62
46:CN:56:LYS:CE	46:CN:59:TYR:CZ	2.79	0.62
46:CN:169:ARG:CB	46:CN:169:ARG:CZ	2.77	0.62
48:CD:152:ARG:HG3	79:CJ:145:LYS:HZ1	0.73	0.62
49:CQ:6:ARG:CZ	64:CF:110:GLN:HA	2.30	0.62
50:CR:184:ILE:O	50:CR:184:ILE:HG22	2.00	0.62
52:CS:113:MET:HG3	52:CS:124:ILE:HD11	1.80	0.62
54:CP:118:GLN:CG	54:CP:120:ASN:OD1	2.47	0.62
60:Cr:75:THR:CB	74:CC:148:PRO:O	2.45	0.62
60:Cr:78:VAL:HG21	60:Cr:82:ILE:HG22	1.74	0.62
61:Ch:81:LEU:HD22	87:A8:38:U:C5	2.35	0.62
63:CB:49:TYR:O	63:CB:79:VAL:HG13	1.99	0.62
64:CF:224:THR:C	64:CF:225:THR:O	2.42	0.62
69:Cg:41:ALA:CA	69:Cg:52:ARG:HD3	2.09	0.62
69:Cg:69:LYS:HG3	69:Cg:73:HIS:HE1	1.60	0.62
74:CC:76:ILE:HG22	74:CC:77:PRO:O	1.99	0.62
80:CH:171:ASP:OD2	80:CH:173:ARG:NH1	2.32	0.62
81:CE:53:GLY:HA2	81:CE:63:TYR:CB	2.28	0.62
83:Ct:13:ALA:O	83:Ct:17:HIS:HD2	1.82	0.62
85:A5:2266:C:H4'	85:A5:2267:U:C5'	2.29	0.62
1:Az:72:SER:CA	1:Az:104:ASP:CB	2.77	0.62
1:Az:155:LEU:HD23	1:Az:156:MET:C	2.24	0.62
1:Az:275:LYS:HG3	1:Az:276:SER:N	2.14	0.62
1:Az:738:PRO:HB2	1:Az:824:PRO:HG2	1.80	0.62
1:Az:739:ARG:N	1:Az:824:PRO:CD	2.62	0.62
1:Az:766:LYS:O	1:Az:767:ARG:HB2	1.99	0.62
2:Ag:74:ASP:OD2	2:Ag:74:ASP:N	2.32	0.62
2:Ag:191:HIS:O	2:Ag:192:THR:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:298:LEU:CD1	2:Ag:310:TRP:HB2	2.29	0.62
7:AM:12:MET:CE	7:AM:17:ALA:C	2.41	0.62
7:AM:18:LEU:CD2	7:AM:22:LEU:HG	2.25	0.62
8:AS:8:LYS:CD	8:AS:8:LYS:N	2.63	0.62
10:AN:25:TRP:HD1	21:Ab:83:GLN:HB3	1.63	0.62
13:AP:100:LYS:CG	36:B2:1240:A:H61	2.13	0.62
14:AT:21:PHE:CE1	14:AT:22:LEU:HD23	2.33	0.62
15:AB:76:ASN:O	15:AB:76:ASN:CG	2.39	0.62
15:AB:105:LEU:HD21	15:AB:213:ARG:CA	2.28	0.62
18:AY:22:GLN:CA	18:AY:74:MET:SD	2.88	0.62
19:AZ:44:LEU:HD21	19:AZ:46:ASN:OD1	2.00	0.62
19:AZ:65:TYR:CD2	19:AZ:68:ILE:HD11	2.35	0.62
20:Aa:85:ARG:HG2	20:Aa:85:ARG:O	1.98	0.62
22:Ac:35:MET:CE	30:AF:33:ILE:HD13	2.29	0.62
23:AD:53:THR:HG22	23:AD:91:VAL:H	1.65	0.62
23:AD:200:PRO:O	23:AD:201:LYS:HB2	1.98	0.62
26:AJ:81:LEU:CD1	26:AJ:97:ILE:HD13	2.30	0.62
26:AJ:168:GLY:O	26:AJ:169:ARG:C	2.43	0.62
29:AG:130:PRO:C	58:CW:81:ALA:HB3	2.24	0.62
30:AF:28:VAL:HA	30:AF:110:GLN:OE1	1.99	0.62
31:AH:160:LYS:HB2	31:AH:192:PHE:HZ	1.64	0.62
33:AI:76:THR:HG21	33:AI:105:ASP:HB2	1.81	0.62
34:AQ:111:ILE:C	34:AQ:114:GLN:HG2	2.25	0.62
39:Cq:28:PHE:HE2	39:Cq:98:ILE:HD12	1.64	0.62
39:Cq:135:THR:O	39:Cq:139:GLN:OE1	2.17	0.62
39:Cq:222:VAL:CG2	84:Cu:8:LEU:CD1	2.70	0.62
39:Cq:253:VAL:CG2	39:Cq:263:GLU:O	2.47	0.62
45:Ca:21:ARG:CD	67:Ce:41:ILE:HD11	2.26	0.62
46:CN:182:HIS:CD2	85:A5:291:U:HO2'	2.17	0.62
51:CA:116:LEU:HD11	51:CA:126:LEU:HB2	1.81	0.62
52:CS:2:LYS:HE2	52:CS:34:ALA:CB	2.29	0.62
52:CS:11:LYS:O	52:CS:11:LYS:CG	2.47	0.62
52:CS:16:CYS:C	52:CS:17:LEU:O	2.34	0.62
56:CX:101:ASP:CG	56:CX:103:LYS:HB2	2.25	0.62
57:CY:32:SER:OG	57:CY:106:ILE:HG13	1.98	0.62
58:CW:11:TYR:HB3	58:CW:32:LEU:CD2	2.28	0.62
59:CZ:46:ILE:HG23	59:CZ:118:PHE:CE2	2.34	0.62
61:Ch:73:TYR:CA	61:Ch:79:LYS:HE3	2.30	0.62
63:CB:59:GLU:OE1	63:CB:70:LYS:N	2.32	0.62
63:CB:292:LEU:HB2	63:CB:299:ILE:HG13	1.80	0.62
63:CB:371:THR:OG1	63:CB:377:GLY:HA3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:376:HIS:CE1	85:A5:4664:A:OP1	2.40	0.62
65:Cc:74:TYR:CZ	65:Cc:80:GLU:HB3	2.35	0.62
66:Cd:29:ILE:CD1	66:Cd:84:ILE:HD12	2.29	0.62
69:Cg:74:VAL:CG1	69:Cg:79:GLY:HA3	2.29	0.62
70:Ci:1:MET:HB3	70:Ci:4:ARG:HE	1.65	0.62
74:CC:311:ARG:O	74:CC:312:ARG:HD3	2.00	0.62
77:Cp:50:ARG:HH11	77:Cp:54:ILE:CG1	2.12	0.62
78:Co:8:ARG:HG2	78:Co:8:ARG:NH1	2.14	0.62
78:Co:66:ILE:CD1	78:Co:85:ILE:N	2.58	0.62
79:CJ:146:ARG:HH21	79:CJ:147:ARG:NE	1.95	0.62
81:CE:261:ILE:HG13	81:CE:262:LYS:N	2.13	0.62
82:CG:36:PRO:O	82:CG:37:LYS:HG3	2.00	0.62
82:CG:38:ASN:N	82:CG:38:ASN:OD1	2.29	0.62
82:CG:82:GLN:O	82:CG:83:PHE:O	2.17	0.62
83:Cs:15:ILE:CG2	84:Cu:30:VAL:HG21	2.29	0.62
85:A5:1661:C:H42	85:A5:2288:G:H1	1.47	0.62
1:Az:58:ASP:HA	1:Az:63:GLU:OE1	1.99	0.62
1:Az:615:GLU:O	1:Az:619:LYS:HB2	1.99	0.62
1:Az:636:ALA:HA	1:Az:641:TRP:O	2.00	0.62
2:Ag:119:GLN:HE22	2:Ag:121:VAL:HG22	1.64	0.62
2:Ag:187:ASN:HD22	23:AD:227:LYS:HE3	1.65	0.62
3:AU:27:ARG:CG	3:AU:83:ARG:O	2.45	0.62
6:AX:109:GLY:O	6:AX:119:ARG:CD	2.41	0.62
7:AM:51:VAL:HG13	7:AM:109:VAL:CG2	2.30	0.62
7:AM:64:LEU:HG	25:Af:104:LYS:HZ2	1.63	0.62
7:AM:91:LEU:CD2	7:AM:104:VAL:HG13	2.21	0.62
8:AS:92:ASP:HA	13:AP:19:GLY:H	1.65	0.62
11:AL:5:GLN:NE2	11:AL:10:TYR:CE1	2.59	0.62
12:AR:105:MET:HE2	16:AA:48:ILE:HG22	1.81	0.62
18:AY:34:THR:HG22	18:AY:35:VAL:CA	2.29	0.62
18:AY:57:VAL:CG1	18:AY:60:PHE:HE2	2.12	0.62
19:AZ:51:ASP:O	19:AZ:53:ALA:N	2.32	0.62
26:AJ:35:TYR:CD1	26:AJ:112:THR:HG21	2.34	0.62
27:AE:126:VAL:HG21	27:AE:129:ILE:CD1	2.27	0.62
29:AG:31:ARG:O	29:AG:34:THR:HG23	2.00	0.62
29:AG:70:HIS:CB	29:AG:103:ASP:OD2	2.42	0.62
29:AG:177:GLN:NE2	36:B2:315:C:H5'	2.14	0.62
31:AH:106:ARG:CD	36:B2:861:A:C4	2.83	0.62
32:AW:29:PRO:O	32:AW:30:CYS:HB3	1.99	0.62
36:B2:1536:G:H8	36:B2:1536:G:O5'	1.83	0.62
40:CK:94:LYS:CD	40:CK:96:LYS:HE2	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:114:ARG:HD3	40:CK:130:LYS:CA	2.14	0.62
40:CK:123:ARG:CD	40:CK:129:ILE:CG1	2.57	0.62
44:CM:30:VAL:HG12	52:CS:145:PHE:CE1	2.33	0.62
44:CM:77:TRP:CD1	44:CM:82:ILE:CB	2.81	0.62
48:CD:210:TYR:CE1	48:CD:214:GLU:OE2	2.52	0.62
48:CD:262:LYS:CE	48:CD:266:TRP:HE1	2.12	0.62
49:CQ:99:LYS:CE	49:CQ:119:LYS:HD3	2.26	0.62
49:CQ:146:ARG:HH11	49:CQ:148:VAL:HB	1.62	0.62
51:CA:143:THR:H	51:CA:144:LYS:HG2	1.65	0.62
52:CS:45:TRP:CH2	52:CS:56:LYS:HA	2.35	0.62
54:CP:105:LYS:CB	54:CP:107:LEU:HD21	2.30	0.62
55:CU:43:LEU:O	55:CU:47:ILE:HG13	1.99	0.62
57:CY:56:GLN:NE2	57:CY:105:VAL:CG1	2.62	0.62
59:CZ:100:VAL:CA	59:CZ:106:LEU:CD2	2.76	0.62
60:Cr:75:THR:C	60:Cr:79:ARG:NH2	2.54	0.62
60:Cr:90:LEU:HD11	60:Cr:114:ALA:HB1	0.67	0.62
63:CB:81:THR:HG21	63:CB:207:VAL:HG21	1.81	0.62
63:CB:203:GLN:HG3	63:CB:204:GLN:H	1.64	0.62
63:CB:208:ASN:OD1	63:CB:208:ASN:N	2.30	0.62
63:CB:218:ASP:CG	63:CB:280:ILE:HG22	2.24	0.62
63:CB:297:LYS:HD3	63:CB:300:LYS:HZ3	1.62	0.62
63:CB:304:SER:HB3	63:CB:310:SER:O	2.00	0.62
66:Cd:98:SER:OG	66:Cd:99:PRO:HD2	1.99	0.62
69:Cg:5:LEU:CD2	69:Cg:32:TYR:CE1	2.82	0.62
70:Ci:24:PRO:HB3	70:Ci:29:ARG:NH1	2.15	0.62
70:Ci:81:ILE:HG23	70:Ci:85:ARG:CZ	2.29	0.62
74:CC:148:PRO:HD3	74:CC:175:LYS:HG2	1.81	0.62
74:CC:300:ARG:C	74:CC:300:ARG:HD2	2.25	0.62
81:CE:73:TYR:O	81:CE:74:SER:CB	2.48	0.62
81:CE:108:LYS:CE	81:CE:108:LYS:CA	2.42	0.62
82:CG:74:LEU:CD1	82:CG:74:LEU:H	2.03	0.62
82:CG:117:ARG:NH1	82:CG:130:THR:OG1	2.33	0.62
82:CG:128:VAL:N	82:CG:129:PRO:CD	2.62	0.62
82:CG:159:HIS:ND1	82:CG:185:LYS:N	2.48	0.62
84:Cu:38:ARG:O	84:Cu:42:VAL:HG23	1.99	0.62
84:Cv:16:SER:O	84:Cv:18:PRO:N	2.31	0.62
1:Az:113:SER:OG	1:Az:499:PHE:CD2	2.52	0.62
1:Az:738:PRO:O	1:Az:739:ARG:NH1	2.32	0.62
2:Ag:59:LEU:HD12	2:Ag:90:TRP:CD2	2.34	0.62
2:Ag:292:SER:HB2	2:Ag:297:THR:HB	1.80	0.62
8:AS:39:ARG:HD3	14:AT:38:LYS:HZ3	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:39:ARG:HH22	14:AT:38:LYS:HG2	1.60	0.62
8:AS:46:ARG:NE	14:AT:50:GLU:CD	2.58	0.62
11:AL:86:ILE:HG21	11:AL:113:LEU:HD12	1.82	0.62
12:AR:99:ASP:HB3	12:AR:119:VAL:HG12	1.81	0.62
13:AP:8:LYS:C	13:AP:11:THR:HG22	2.24	0.62
13:AP:44:ARG:HH21	13:AP:84:ILE:N	1.96	0.62
15:AB:195:LYS:HA	15:AB:195:LYS:CE	2.29	0.62
16:AA:30:LEU:O	16:AA:31:ASP:CB	2.48	0.62
16:AA:125:THR:CA	16:AA:147:LEU:HB2	2.27	0.62
18:AY:27:VAL:HG11	18:AY:35:VAL:CG2	2.25	0.62
18:AY:54:VAL:CG2	18:AY:79:LEU:HD23	2.23	0.62
18:AY:101:LYS:C	18:AY:102:THR:HG1	2.06	0.62
19:AZ:80:ARG:CG	19:AZ:82:SER:OG	2.40	0.62
21:Ab:48:SER:OG	21:Ab:49:HIS:CD2	2.52	0.62
25:Af:146:LEU:HD12	25:Af:147:THR:CA	2.29	0.62
26:AJ:10:ARG:CB	26:AJ:10:ARG:HH11	2.06	0.62
26:AJ:110:LEU:O	26:AJ:112:THR:N	2.32	0.62
27:AE:21:ASP:OD2	27:AE:24:THR:HG23	1.94	0.62
28:AC:170:TRP:CE2	32:AW:97:ARG:HD3	2.34	0.62
29:AG:197:GLN:O	29:AG:201:LYS:HG2	1.99	0.62
30:AF:36:GLN:HG2	30:AF:37:ASP:OD2	1.99	0.62
30:AF:91:ARG:HH21	34:AQ:46:THR:CG2	2.13	0.62
30:AF:193:LYS:HE2	30:AF:197:GLU:CD	2.25	0.62
34:AQ:63:PHE:HD1	34:AQ:68:ILE:HD11	1.65	0.62
35:Ah:149:GLY:O	35:Ah:150:GLU:O	2.17	0.62
38:Cz:67:VAL:HG23	38:Cz:82:ILE:HG21	1.78	0.62
38:Cz:85:MET:CB	38:Cz:89:ALA:HB2	2.30	0.62
38:Cz:143:ASN:HA	38:Cz:147:LYS:N	2.14	0.62
39:Cq:61:MET:SD	39:Cq:82:ILE:HD12	2.40	0.62
40:CK:123:ARG:CG	40:CK:129:ILE:HG13	2.30	0.62
42:CL:129:ARG:HH22	61:Ch:115:PRO:CD	2.11	0.62
44:CM:86:TRP:O	44:CM:92:ALA:HB3	1.99	0.62
45:Ca:17:HIS:HD2	45:Ca:19:HIS:NE2	1.97	0.62
48:CD:76:CYS:CB	48:CD:109:LEU:HD12	2.30	0.62
48:CD:269:PRO:O	48:CD:269:PRO:HD2	1.98	0.62
49:CQ:38:ARG:CG	74:CC:302:LEU:HD22	2.29	0.62
49:CQ:70:MET:CE	49:CQ:98:LEU:CD2	2.77	0.62
49:CQ:156:PRO:HB2	49:CQ:157:GLY:HA2	1.82	0.62
50:CR:65:LYS:C	50:CR:68:LEU:HG	2.25	0.62
52:CS:95:ARG:HD3	52:CS:97:TYR:CE1	2.34	0.62
52:CS:141:ALA:C	52:CS:144:GLN:HE21	2.06	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:24:VAL:CG1	54:CP:90:PHE:CD2	2.39	0.62
54:CP:105:LYS:HB3	54:CP:107:LEU:HD21	1.82	0.62
57:CY:44:VAL:CG2	57:CY:119:LEU:CD1	2.73	0.62
57:CY:91:ASN:O	57:CY:93:THR:CB	2.46	0.62
59:CZ:53:VAL:HG22	59:CZ:54:THR:N	2.13	0.62
60:Cr:33:LYS:O	60:Cr:35:ARG:N	2.33	0.62
60:Cr:46:ARG:CG	60:Cr:68:SER:HB3	2.30	0.62
60:Cr:46:ARG:NH1	60:Cr:69:GLY:HA3	2.14	0.62
66:Cd:18:ASN:O	66:Cd:20:VAL:CA	2.47	0.62
69:Cg:46:CYS:SG	69:Cg:83:CYS:N	2.73	0.62
69:Cg:57:ARG:NE	69:Cg:59:VAL:CB	2.62	0.62
69:Cg:74:VAL:HG13	69:Cg:75:SER:H	1.65	0.62
71:Cj:81:GLY:O	71:Cj:82:THR:CG2	2.47	0.62
74:CC:33:ARG:HD3	74:CC:122:TYR:CE2	2.35	0.62
74:CC:253:THR:C	74:CC:256:ALA:HB3	2.24	0.62
78:Co:23:VAL:C	78:Co:24:THR:HG22	2.25	0.62
81:CE:198:SER:O	81:CE:199:THR:C	2.43	0.62
81:CE:287:VAL:CG2	81:CE:288:PHE:N	2.62	0.62
82:CG:44:ASP:O	82:CG:45:ILE:C	2.42	0.62
85:A5:4879:C:O2'	85:A5:4880:C:H5'	1.99	0.62
1:Az:562:GLU:HB3	1:Az:570:ILE:CG1	2.29	0.62
2:Ag:5:MET:CE	2:Ag:312:VAL:CG2	2.71	0.62
2:Ag:113:PHE:CD1	2:Ag:120:ILE:HG12	2.35	0.62
3:AU:103:SER:O	3:AU:106:ILE:HG21	1.97	0.62
5:AO:88:LEU:HD22	15:AB:25:PHE:HD2	1.44	0.62
10:AN:13:GLN:OE1	21:Ab:21:LYS:HG3	2.00	0.62
11:AL:94:HIS:ND1	11:AL:96:ILE:HD11	2.14	0.62
13:AP:44:ARG:HD3	13:AP:115:TYR:CE1	2.33	0.62
14:AT:40:ALA:HB3	14:AT:43:LYS:CD	2.30	0.62
14:AT:94:ARG:HG3	14:AT:94:ARG:HH11	1.64	0.62
15:AB:87:ILE:CD1	15:AB:220:LYS:NZ	2.63	0.62
15:AB:133:TYR:CD1	15:AB:217:MET:HE1	2.34	0.62
16:AA:24:HIS:HB3	16:AA:51:LEU:HD21	1.81	0.62
16:AA:149:ASN:CB	16:AA:165:ASN:HD21	2.11	0.62
18:AY:98:GLU:CD	18:AY:98:GLU:O	2.41	0.62
19:AZ:103:HIS:HD2	19:AZ:105:ALA:CA	2.13	0.62
20:Aa:94:ASP:N	20:Aa:94:ASP:OD1	2.29	0.62
21:Ab:62:VAL:CG2	21:Ab:74:THR:HG21	2.29	0.62
21:Ab:81:ARG:HB3	21:Ab:82:LYS:HA	1.80	0.62
23:AD:70:THR:HG22	23:AD:86:LEU:CG	2.29	0.62
26:AJ:16:PRO:O	26:AJ:18:ARG:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:94:LYS:O	27:AE:95:THR:CG2	2.48	0.62
27:AE:128:LYS:HG3	27:AE:130:PHE:HD1	1.65	0.62
30:AF:28:VAL:HG13	30:AF:110:GLN:OE1	1.96	0.62
30:AF:42:LYS:HB2	30:AF:46:ALA:H	1.64	0.62
30:AF:78:MET:HB2	30:AF:159:ARG:CZ	2.30	0.62
30:AF:176:GLU:CD	30:AF:187:SER:HG	2.05	0.62
31:AH:166:VAL:HG22	31:AH:173:PHE:CE2	2.30	0.62
32:AW:101:PHE:HD2	32:AW:129:PHE:HE1	1.46	0.62
35:Ah:158:ILE:HG22	35:Ah:158:ILE:O	1.99	0.62
38:Cz:65:VAL:HB	38:Cz:147:LYS:HD3	1.82	0.62
38:Cz:80:VAL:HG21	38:Cz:144:MET:HA	1.82	0.62
39:Cq:25:PRO:CD	39:Cq:26:LYS:H	2.12	0.62
39:Cq:26:LYS:O	39:Cq:27:CYS:CB	2.45	0.62
39:Cq:200:ASN:C	39:Cq:202:GLU:N	2.58	0.62
40:CK:77:ALA:HB3	40:CK:80:LEU:CG	2.29	0.62
41:CO:54:TYR:HE2	41:CO:58:LEU:HD21	1.60	0.62
42:CL:74:ARG:HD3	42:CL:74:ARG:O	1.99	0.62
45:Ca:28:HIS:CE1	45:Ca:32:ARG:NE	2.66	0.62
45:Ca:74:ASN:ND2	45:Ca:114:LYS:HB2	2.15	0.62
47:CI:54:SER:OG	47:CI:130:HIS:O	2.15	0.62
47:CI:189:CYS:O	47:CI:200:VAL:HG22	1.99	0.62
49:CQ:105:VAL:HG11	49:CQ:110:ARG:HB2	1.81	0.62
49:CQ:157:GLY:C	49:CQ:159:PRO:HD2	2.25	0.62
49:CQ:187:LYS:CE	49:CQ:188:ASN:N	2.53	0.62
51:CA:5:ILE:HG22	51:CA:6:ARG:N	2.13	0.62
51:CA:174:ARG:CA	77:Cp:69:TRP:HZ3	1.90	0.62
51:CA:245:ARG:O	51:CA:245:ARG:CD	2.34	0.62
53:CT:138:ALA:HA	53:CT:139:HIS:CG	2.34	0.62
56:CX:52:LEU:HD13	56:CX:54:LEU:N	2.11	0.62
63:CB:58:ARG:HD3	63:CB:363:ILE:HG23	1.80	0.62
63:CB:61:ASP:CG	63:CB:361:GLU:CD	2.62	0.62
63:CB:288:GLY:HA3	63:CB:330:PHE:CZ	2.35	0.62
66:Cd:33:ILE:HG22	66:Cd:41:ARG:NH2	2.15	0.62
67:Ce:72:SER:CB	67:Ce:74:PHE:HE2	2.11	0.62
81:CE:70:LYS:O	81:CE:72:LYS:HE3	2.00	0.62
82:CG:32:PHE:O	82:CG:33:GLU:CD	2.43	0.62
82:CG:157:ILE:CG2	82:CG:167:VAL:CG1	2.77	0.62
82:CG:184:ILE:HG22	82:CG:185:LYS:H	1.57	0.62
83:Ct:19:ASP:CG	84:Cv:32:ILE:HD11	2.16	0.62
84:Cu:7:TYR:CD1	84:Cu:18:PRO:HB2	2.34	0.62
85:A5:2643:G:H1	85:A5:2691:U:H3	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:70:ILE:O	1:Az:71:LYS:CB	2.44	0.62
1:Az:239:LYS:HD2	1:Az:241:GLU:HB3	1.81	0.62
1:Az:369:CYS:CB	1:Az:386:LYS:HG3	2.29	0.62
1:Az:402:VAL:C	1:Az:403:PRO:O	2.40	0.62
1:Az:427:VAL:CG1	1:Az:485:ILE:HG23	2.27	0.62
2:Ag:51:ASN:N	2:Ag:51:ASN:OD1	2.33	0.62
2:Ag:91:ASP:OD1	2:Ag:93:THR:OG1	2.12	0.62
2:Ag:153:CYS:HB3	2:Ag:168:CYS:SG	2.39	0.62
2:Ag:281:ALA:O	2:Ag:282:GLU:HB2	2.00	0.62
5:AO:88:LEU:HD21	15:AB:25:PHE:CD2	2.30	0.62
8:AS:118:ARG:HH12	13:AP:108:LYS:HZ2	1.46	0.62
10:AN:27:LYS:CD	10:AN:27:LYS:N	2.62	0.62
13:AP:128:HIS:HE1	36:B2:1521:C:C1'	2.06	0.62
16:AA:76:VAL:CG1	16:AA:175:TRP:CZ3	2.83	0.62
22:Ac:13:ARG:HG2	22:Ac:33:GLU:HB2	1.82	0.62
26:AJ:87:LEU:CD1	26:AJ:91:LYS:HB2	2.29	0.62
27:AE:48:LEU:HD11	27:AE:70:ILE:HD11	1.82	0.62
27:AE:154:ILE:HG21	27:AE:160:ILE:HD11	1.82	0.62
29:AG:155:GLN:C	29:AG:156:TYR:CD1	2.78	0.62
30:AF:42:LYS:HB2	30:AF:45:TYR:H	0.82	0.62
35:Ah:299:LYS:O	35:Ah:300:ASP:CB	2.46	0.62
38:Cz:147:LYS:HZ3	38:Cz:151:VAL:HG23	1.65	0.62
39:Cq:255:THR:HG23	84:Cv:49:LYS:HG2	1.80	0.62
40:CK:61:LYS:CD	40:CK:72:GLU:HA	2.30	0.62
41:CO:198:THR:HG21	44:CM:115:ALA:CB	2.30	0.62
44:CM:80:ALA:O	44:CM:81:ASP:HB2	1.99	0.62
46:CN:29:GLN:CG	82:CG:67:ARG:HE	2.11	0.62
47:CI:100:ASN:O	47:CI:101:LYS:O	2.18	0.62
48:CD:48:LYS:NZ	85:A5:4325:A:O2'	2.30	0.62
52:CS:154:LEU:CD1	52:CS:157:ARG:HD2	2.23	0.62
52:CS:164:LYS:CB	52:CS:165:PRO:HD2	2.30	0.62
54:CP:10:ASN:HD22	54:CP:10:ASN:C	2.06	0.62
55:CU:23:LEU:HA	55:CU:110:TYR:O	1.99	0.62
55:CU:40:GLU:HG2	55:CU:70:ILE:CG2	2.30	0.62
60:Cr:81:THR:C	60:Cr:82:ILE:CG1	2.73	0.62
61:Ch:67:GLU:HA	61:Ch:70:ARG:HG2	1.82	0.62
64:CF:119:ASN:OD1	64:CF:212:LYS:HG2	2.00	0.62
66:Cd:28:ASN:HA	66:Cd:83:ARG:HG2	1.81	0.62
66:Cd:83:ARG:C	66:Cd:114:PHE:CE2	2.76	0.62
68:Cf:36:ARG:O	68:Cf:39:THR:HG22	2.00	0.62
68:Cf:104:MET:CB	68:Cf:106:TYR:CE2	2.83	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:210:ILE:HG21	74:CC:252:TRP:CZ3	2.35	0.62
77:Cp:85:ARG:NH2	77:Cp:86:LEU:CG	2.62	0.62
79:CJ:35:ARG:HB3	79:CJ:126:TYR:OH	2.00	0.62
79:CJ:42:GLN:O	79:CJ:42:GLN:HG2	1.98	0.62
81:CE:166:LYS:HG2	81:CE:167:GLN:N	2.15	0.62
81:CE:231:GLU:O	81:CE:231:GLU:CG	2.48	0.62
82:CG:76:VAL:HG12	82:CG:81:ASN:CG	2.24	0.62
82:CG:98:LEU:HD12	82:CG:98:LEU:C	2.25	0.62
82:CG:190:LEU:CD2	82:CG:190:LEU:N	2.61	0.62
82:CG:229:ARG:HG2	82:CG:233:ILE:CG1	2.30	0.62
1:Az:206:ASP:C	1:Az:212:VAL:CG2	2.73	0.61
1:Az:333:LYS:HB2	1:Az:334:PRO:HD3	1.82	0.61
1:Az:587:SER:CB	1:Az:735:THR:HG23	2.30	0.61
1:Az:824:PRO:C	1:Az:832:SER:HB2	2.24	0.61
3:AU:82:MET:CE	9:Ad:51:GLY:C	2.73	0.61
4:AK:2:LEU:CG	4:AK:3:MET:H	2.07	0.61
11:AL:102:PHE:N	11:AL:102:PHE:HD1	1.95	0.61
11:AL:113:LEU:CD1	11:AL:120:VAL:HG11	2.29	0.61
14:AT:130:ASP:OD2	14:AT:131:LEU:CD2	2.48	0.61
18:AY:111:LYS:HZ3	18:AY:115:LYS:NZ	1.94	0.61
19:AZ:63:PRO:O	19:AZ:111:ARG:NH1	2.33	0.61
22:Ac:47:LYS:HE3	30:AF:141:VAL:CB	2.15	0.61
23:AD:74:GLN:HG3	23:AD:79:PHE:O	2.00	0.61
26:AJ:10:ARG:CZ	26:AJ:10:ARG:HB2	2.29	0.61
26:AJ:130:ILE:HA	26:AJ:135:ILE:HD13	1.80	0.61
27:AE:87:MET:O	27:AE:122:LYS:CE	2.47	0.61
28:AC:270:THR:HG23	28:AC:271:ASP:N	2.14	0.61
30:AF:36:GLN:C	30:AF:37:ASP:CG	2.63	0.61
33:AI:87:ASN:OD1	33:AI:89:GLU:HG2	2.00	0.61
34:AQ:15:ARG:NH1	34:AQ:20:THR:CG2	2.63	0.61
34:AQ:85:ARG:NH2	34:AQ:117:ARG:CG	2.47	0.61
36:B2:1284:A:OP1	36:B2:1286:G:H5'	1.99	0.61
38:Cz:68:LEU:CD1	38:Cz:90:LEU:HD21	2.30	0.61
39:Cq:253:VAL:HG22	39:Cq:263:GLU:C	2.25	0.61
40:CK:142:ASN:HB3	40:CK:147:HIS:O	1.91	0.61
41:CO:145:VAL:CG1	41:CO:145:VAL:O	2.48	0.61
44:CM:6:PHE:CD1	52:CS:152:PHE:O	2.53	0.61
44:CM:41:PRO:O	44:CM:42:CYS:C	2.36	0.61
44:CM:89:THR:HG1	44:CM:92:ALA:CB	2.12	0.61
47:CI:156:LYS:CG	47:CI:163:GLN:HE21	2.13	0.61
48:CD:56:THR:O	48:CD:58:ARG:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:16:LYS:H	49:CQ:16:LYS:CE	2.12	0.61
49:CQ:19:LYS:HE3	49:CQ:20:SER:HB2	1.81	0.61
50:CR:45:ILE:CA	50:CR:50:ILE:HG22	2.29	0.61
53:CT:118:GLU:O	53:CT:122:LYS:HB2	2.00	0.61
53:CT:127:GLN:O	53:CT:128:LEU:HD23	2.00	0.61
55:CU:27:HIS:CD2	55:CU:114:TYR:H	2.18	0.61
61:Ch:48:ARG:HG2	61:Ch:48:ARG:NH1	2.14	0.61
65:Cc:44:LYS:HG2	65:Cc:97:ILE:HA	1.82	0.61
65:Cc:74:TYR:CE2	65:Cc:76:GLY:N	2.67	0.61
66:Cd:42:ALA:N	66:Cd:43:PRO:CD	2.61	0.61
68:Cf:53:ALA:C	68:Cf:54:LYS:CD	2.68	0.61
74:CC:5:ARG:HH12	74:CC:26:ALA:CB	2.12	0.61
74:CC:8:ILE:HD11	74:CC:151:PRO:HD2	1.82	0.61
74:CC:85:HIS:H	74:CC:87:SER:CB	2.09	0.61
76:Cn:22:GLN:CB	76:Cn:25:LYS:HE3	2.29	0.61
80:CH:110:SER:OG	80:CH:111:LEU:CA	2.46	0.61
81:CE:83:LYS:HD2	81:CE:86:GLU:CA	2.30	0.61
81:CE:185:PRO:HB2	81:CE:250:GLN:HE22	1.63	0.61
82:CG:71:TYR:HE2	82:CG:76:VAL:HG21	1.64	0.61
82:CG:98:LEU:CD1	82:CG:215:LEU:HD21	2.30	0.61
83:Ct:17:HIS:CE1	83:Ct:56:ILE:HD12	2.35	0.61
83:Ct:31:LEU:CD2	84:Cv:30:VAL:HG23	2.21	0.61
85:A5:173:C:H2'	85:A5:174:C:H6	1.65	0.61
85:A5:2490:U:H2'	85:A5:2491:C:O4'	2.00	0.61
1:Az:681:ALA:HB2	24:Ae:8:ARG:HH12	1.65	0.61
2:Ag:5:MET:CE	2:Ag:312:VAL:CG1	2.54	0.61
2:Ag:100:ARG:HH22	36:B2:1399:C:H5'	1.65	0.61
3:AU:40:ILE:HD13	3:AU:53:PRO:CG	2.07	0.61
6:AX:57:VAL:O	6:AX:67:ARG:HB2	2.00	0.61
7:AM:45:ARG:H	7:AM:45:ARG:HE	1.47	0.61
8:AS:120:HIS:CA	13:AP:121:ILE:HG22	2.29	0.61
13:AP:125:PRO:O	13:AP:126:VAL:HB	2.00	0.61
15:AB:52:THR:CB	82:CG:264:LYS:HZ2	1.83	0.61
15:AB:228:LEU:CD1	15:AB:232:HIS:HD2	2.12	0.61
16:AA:14:ASP:OD2	16:AA:55:TRP:CH2	2.53	0.61
18:AY:101:LYS:O	18:AY:102:THR:CB	2.44	0.61
27:AE:70:ILE:CD1	27:AE:92:ILE:HD11	2.29	0.61
29:AG:162:LEU:CD2	29:AG:172:LYS:HZ3	2.12	0.61
30:AF:122:ARG:C	30:AF:141:VAL:HG13	2.18	0.61
31:AH:6:ALA:HA	31:AH:10:LYS:HD3	0.73	0.61
31:AH:110:THR:O	31:AH:110:THR:HG23	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:140:LYS:C	33:AI:141:ARG:CG	2.73	0.61
38:Cz:60:ARG:O	38:Cz:60:ARG:HG2	2.00	0.61
39:Cq:51:ALA:HA	39:Cq:91:THR:HG22	1.82	0.61
39:Cq:135:THR:HG22	39:Cq:152:ILE:CD1	2.31	0.61
39:Cq:253:VAL:HG21	39:Cq:263:GLU:CB	2.29	0.61
40:CK:39:PRO:HA	40:CK:40:LYS:HE2	1.83	0.61
43:CV:60:MET:HE3	43:CV:129:TRP:CH2	2.35	0.61
45:Ca:21:ARG:HD3	67:Ce:41:ILE:HD11	1.80	0.61
46:CN:71:ARG:NH1	46:CN:72:LYS:O	2.33	0.61
49:CQ:158:THR:CG2	49:CQ:187:LYS:O	2.49	0.61
53:CT:150:LEU:HD23	53:CT:151:LEU:CA	2.29	0.61
55:CU:60:VAL:HA	55:CU:75:GLU:CA	2.29	0.61
55:CU:106:SER:HG	55:CU:109:SER:HG	0.67	0.61
57:CY:77:LYS:O	57:CY:79:VAL:HG23	2.00	0.61
58:CW:109:ILE:C	58:CW:110:ARG:HD3	2.25	0.61
59:CZ:33:THR:OG1	59:CZ:36:ARG:CA	2.48	0.61
63:CB:82:PRO:HG3	63:CB:171:LEU:CD2	2.26	0.61
64:CF:126:ASN:O	64:CF:130:ILE:HG13	2.01	0.61
69:Cg:45:ALA:CB	69:Cg:48:VAL:N	2.62	0.61
69:Cg:69:LYS:HG3	69:Cg:73:HIS:ND1	2.14	0.61
72:Ck:36:VAL:CG2	72:Ck:43:TYR:HB2	2.30	0.61
74:CC:229:LEU:HD23	74:CC:229:LEU:H	1.61	0.61
79:CJ:169:LYS:CD	79:CJ:170:TYR:CD2	2.83	0.61
81:CE:27:VAL:CB	81:CE:28:LYS:HG3	2.30	0.61
81:CE:69:TYR:O	81:CE:72:LYS:HE2	2.00	0.61
81:CE:115:TYR:CA	81:CE:117:PRO:HD3	2.30	0.61
81:CE:183:ARG:HG3	81:CE:183:ARG:O	1.99	0.61
82:CG:78:PRO:HD3	82:CG:237:TRP:CD2	2.35	0.61
82:CG:207:VAL:C	82:CG:208:ASN:O	2.41	0.61
83:Cs:7:LEU:O	83:Cs:11:TYR:HD2	1.83	0.61
1:Az:200:MET:HG2	1:Az:203:ILE:HG21	1.82	0.61
1:Az:308:LYS:HB3	1:Az:311:GLU:CG	2.30	0.61
1:Az:394:LEU:N	1:Az:487:THR:HG22	2.14	0.61
3:AU:67:LYS:CE	3:AU:78:ASP:CG	2.69	0.61
6:AX:71:ARG:NE	6:AX:82:THR:CG2	2.58	0.61
9:Ad:27:ARG:HH21	36:B2:1263:U:H4'	1.64	0.61
10:AN:27:LYS:HD2	10:AN:28:LEU:H	1.63	0.61
11:AL:118:ARG:HG2	11:AL:119:ASP:N	2.14	0.61
13:AP:41:GLN:HE22	13:AP:45:LEU:CD1	2.13	0.61
15:AB:68:GLU:OE2	15:AB:83:LYS:CE	2.45	0.61
24:Ae:1:LYS:O	24:Ae:1:LYS:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Af:103:LEU:HD22	25:Af:106:TYR:HD2	1.62	0.61
26:AJ:91:LYS:C	26:AJ:93:LYS:H	2.08	0.61
26:AJ:100:LEU:CD1	26:AJ:101:LYS:H	2.14	0.61
26:AJ:125:HIS:NE2	26:AJ:129:LEU:HD11	2.15	0.61
27:AE:159:THR:HG21	27:AE:227:VAL:CG2	2.21	0.61
29:AG:62:PRO:CG	29:AG:83:CYS:SG	2.89	0.61
29:AG:226:GLU:O	29:AG:230:LYS:CG	2.48	0.61
30:AF:21:GLY:C	30:AF:22:LYS:HG3	2.25	0.61
30:AF:91:ARG:HH21	34:AQ:46:THR:HG22	1.65	0.61
31:AH:31:GLU:CD	31:AH:41:ARG:HD3	2.25	0.61
31:AH:144:ILE:HD12	32:AW:52:ILE:CD1	2.25	0.61
34:AQ:85:ARG:HH22	34:AQ:117:ARG:HD2	1.63	0.61
36:B2:464:A:H4'	36:B2:465:A:OP2	2.00	0.61
39:Cq:23:ASP:CG	39:Cq:24:TYR:CE2	2.78	0.61
40:CK:58:ILE:HG22	40:CK:59:THR:N	2.15	0.61
40:CK:123:ARG:NE	40:CK:129:ILE:HD11	2.10	0.61
41:CO:178:ARG:CG	41:CO:182:GLU:OE2	2.48	0.61
42:CL:50:PRO:CG	42:CL:51:ALA:HB1	2.20	0.61
46:CN:4:TYR:CE2	82:CG:141:ASN:ND2	2.59	0.61
46:CN:34:SER:OG	46:CN:37:HIS:HB3	2.00	0.61
46:CN:64:ILE:HD11	46:CN:102:ALA:CB	2.30	0.61
47:CI:64:ALA:O	47:CI:159:PHE:CE1	2.53	0.61
49:CQ:143:ARG:C	49:CQ:145:GLY:H	2.04	0.61
51:CA:96:LEU:HD23	51:CA:166:VAL:HG21	1.82	0.61
57:CY:86:GLN:HB3	57:CY:95:VAL:O	1.98	0.61
57:CY:86:GLN:HB3	57:CY:95:VAL:C	2.26	0.61
58:CW:79:GLN:CD	58:CW:94:ARG:NH2	2.58	0.61
59:CZ:33:THR:OG1	59:CZ:36:ARG:CB	2.48	0.61
60:Cr:122:LYS:O	60:Cr:126:VAL:CA	2.47	0.61
63:CB:81:THR:CG2	63:CB:207:VAL:HG11	2.30	0.61
63:CB:112:ASP:N	63:CB:112:ASP:OD1	2.29	0.61
69:Cg:46:CYS:SG	69:Cg:82:MET:HB3	2.41	0.61
69:Cg:53:LEU:HD12	69:Cg:53:LEU:H	1.63	0.61
78:Co:62:THR:O	78:Co:63:THR:CB	2.48	0.61
80:CH:109:GLY:HA2	80:CH:128:MET:HG3	1.78	0.61
81:CE:138:ARG:HH22	81:CE:171:GLY:N	1.98	0.61
82:CG:174:CYS:HB2	82:CG:181:TYR:CD2	2.35	0.61
83:Ct:11:TYR:O	83:Ct:15:ILE:HG13	2.00	0.61
85:A5:1303:A:H2'	85:A5:1304:C:C5'	2.30	0.61
85:A5:2464:C:H2'	85:A5:2465:C:C6	2.34	0.61
85:A5:3969:G:H1	85:A5:4052:C:H42	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:4072:C:H2'	85:A5:4073:A:H5''	1.80	0.61
1:Az:171:PRO:HB2	1:Az:290:CYS:SG	2.41	0.61
1:Az:571:LYS:CE	1:Az:572:LYS:N	2.33	0.61
1:Az:585:GLU:HG3	1:Az:737:GLN:HE22	1.60	0.61
1:Az:738:PRO:C	1:Az:824:PRO:CD	2.72	0.61
1:Az:745:TYR:CE1	1:Az:746:LEU:CB	2.83	0.61
2:Ag:65:PHE:HB2	2:Ag:83:TRP:CD1	2.34	0.61
2:Ag:194:TYR:HE1	2:Ag:196:ASN:HD21	1.46	0.61
4:AK:84:HIS:CD2	7:AM:27:ILE:CD1	2.84	0.61
6:AX:125:VAL:C	6:AX:127:ASN:N	2.54	0.61
8:AS:8:LYS:HA	19:AZ:49:LEU:CD2	2.30	0.61
8:AS:39:ARG:CD	14:AT:38:LYS:HE2	2.16	0.61
12:AR:91:LEU:HB2	12:AR:93:GLN:H	1.66	0.61
14:AT:134:ILE:HG13	14:AT:135:ALA:N	2.14	0.61
15:AB:104:ASP:CG	15:AB:105:LEU:H	2.07	0.61
26:AJ:34:GLU:HB2	26:AJ:35:TYR:CD2	2.35	0.61
26:AJ:37:LEU:HD21	26:AJ:42:GLU:CA	2.31	0.61
28:AC:192:LEU:HD12	28:AC:192:LEU:C	2.25	0.61
29:AG:129:VAL:O	58:CW:80:ARG:NH1	2.31	0.61
30:AF:36:GLN:HG2	30:AF:37:ASP:CG	2.24	0.61
33:AI:144:LYS:NZ	36:B2:192:C:C6	2.66	0.61
34:AQ:76:GLY:H	34:AQ:79:ALA:HB3	1.64	0.61
38:Cz:194:LEU:HD13	38:Cz:194:LEU:C	2.25	0.61
42:CL:129:ARG:CZ	61:Ch:115:PRO:CG	2.73	0.61
48:CD:190:PHE:HZ	48:CD:195:HIS:HB3	1.60	0.61
50:CR:10:LEU:HB3	50:CR:41:ILE:HD12	1.74	0.61
51:CA:23:ARG:HA	51:CA:52:PRO:CG	2.31	0.61
53:CT:26:PRO:O	53:CT:26:PRO:HD2	1.98	0.61
54:CP:131:ARG:CZ	54:CP:137:ASN:HD22	2.14	0.61
56:CX:73:HIS:O	56:CX:76:ILE:HG22	1.99	0.61
57:CY:42:TYR:C	57:CY:43:ASN:O	2.41	0.61
59:CZ:73:LYS:CG	59:CZ:75:TYR:CE2	2.63	0.61
63:CB:87:VAL:HG22	63:CB:163:ILE:HG23	1.75	0.61
63:CB:115:LYS:HD3	63:CB:129:ALA:HB1	1.74	0.61
81:CE:112:MET:HG2	81:CE:113:PRO:N	2.14	0.61
81:CE:258:LEU:HB2	81:CE:259:PRO:HD2	1.82	0.61
82:CG:87:LEU:O	82:CG:88:ASP:C	2.43	0.61
1:Az:58:ASP:OD2	1:Az:69:THR:N	2.27	0.61
1:Az:481:LYS:HG3	1:Az:482:THR:H	0.54	0.61
1:Az:693:CYS:O	1:Az:694:GLU:HB2	2.00	0.61
2:Ag:79:LEU:HD21	2:Ag:89:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:125:ARG:HH11	12:AR:33:ARG:NH1	1.98	0.61
4:AK:25:LYS:HD2	4:AK:62:PHE:HE1	1.65	0.61
4:AK:90:VAL:O	4:AK:90:VAL:HG13	1.99	0.61
5:AO:47:LEU:HB2	15:AB:67:PHE:CD1	2.30	0.61
8:AS:85:ASN:HD21	8:AS:98:VAL:H	1.47	0.61
10:AN:19:ARG:HB3	31:AH:138:GLU:CD	2.22	0.61
12:AR:28:PHE:HA	12:AR:55:THR:HG21	1.82	0.61
15:AB:52:THR:HG22	15:AB:58:ALA:HB2	1.82	0.61
15:AB:72:ALA:CA	15:AB:79:VAL:CG2	2.69	0.61
15:AB:161:VAL:HG12	15:AB:165:ARG:NH1	2.15	0.61
15:AB:206:PRO:O	15:AB:207:LEU:HB2	2.01	0.61
16:AA:66:VAL:O	16:AA:67:ALA:HB3	2.01	0.61
16:AA:148:CYS:O	16:AA:162:PRO:HA	2.00	0.61
16:AA:158:ASP:O	16:AA:159:ILE:HB	2.00	0.61
16:AA:177:MET:CE	16:AA:180:ARG:CZ	2.61	0.61
19:AZ:62:VAL:HG11	19:AZ:91:LEU:CD1	2.30	0.61
20:Aa:2:THR:HG22	36:B2:1199:A:H5''	1.83	0.61
20:Aa:50:VAL:HA	20:Aa:53:ILE:HB	1.83	0.61
26:AJ:12:THR:O	26:AJ:48:PHE:CE2	2.53	0.61
26:AJ:37:LEU:CD2	26:AJ:42:GLU:HB3	2.25	0.61
27:AE:260:GLN:OE1	27:AE:260:GLN:CA	2.47	0.61
28:AC:265:PRO:O	28:AC:269:PHE:HB2	2.00	0.61
31:AH:122:LEU:HD11	31:AH:123:THR:HG22	1.83	0.61
34:AQ:88:ILE:HG13	34:AQ:89:SER:N	2.15	0.61
38:Cz:14:VAL:HG21	38:Cz:184:HIS:NE2	2.16	0.61
38:Cz:30:GLU:OE1	38:Cz:208:SER:HB3	2.01	0.61
39:Cq:28:PHE:HD1	39:Cq:192:VAL:HG22	1.64	0.61
41:CO:188:LYS:NZ	41:CO:189:ILE:N	2.46	0.61
42:CL:57:PRO:HG3	42:CL:75:GLY:O	2.00	0.61
44:CM:11:ARG:HD2	44:CM:57:LEU:HD22	1.82	0.61
44:CM:104:MET:SD	44:CM:109:ARG:HA	2.39	0.61
47:CI:18:PRO:O	47:CI:23:CYS:SG	2.58	0.61
47:CI:169:LYS:HD2	47:CI:169:LYS:N	2.10	0.61
50:CR:75:HIS:HB3	50:CR:80:LYS:NZ	2.14	0.61
57:CY:100:HIS:CD2	57:CY:102:SER:OG	2.53	0.61
62:Cb:50:ASN:HB2	62:Cb:54:LEU:HB2	1.81	0.61
63:CB:52:GLY:CA	63:CB:78:ILE:HD11	2.21	0.61
63:CB:356:LYS:O	63:CB:359:ALA:O	2.18	0.61
64:CF:116:GLN:OE1	64:CF:212:LYS:HE3	2.00	0.61
66:Cd:73:TRP:HZ3	66:Cd:77:ILE:HG12	1.66	0.61
67:Ce:5:ARG:HB3	67:Ce:6:PRO:HD2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:33:VAL:HG11	68:Cf:82:GLY:O	1.96	0.61
72:Ck:23:VAL:CB	72:Ck:64:LEU:HD21	2.30	0.61
74:CC:286:ASN:O	74:CC:287:THR:HG22	2.00	0.61
80:CH:12:ILE:HG21	80:CH:52:LYS:CE	2.29	0.61
81:CE:76:ALA:O	81:CE:77:LYS:HG3	1.99	0.61
82:CG:102:TYR:HB2	82:CG:204:PHE:HE1	1.66	0.61
85:A5:3845:A:H4'	85:A5:4668:U:O2'	2.00	0.61
85:A5:3971:G:H3'	85:A5:3971:G:H8	1.64	0.61
1:Az:340:MET:HE2	1:Az:340:MET:CA	2.21	0.61
1:Az:516:ASP:OD1	1:Az:568:ILE:HG12	2.00	0.61
1:Az:524:LEU:HD13	1:Az:536:CYS:SG	2.39	0.61
1:Az:743:PRO:HG3	1:Az:817:TRP:CZ3	2.36	0.61
5:AO:17:LEU:CG	5:AO:18:GLY:H	2.12	0.61
5:AO:131:ASP:CG	20:Aa:67:LEU:CD2	2.73	0.61
6:AX:71:ARG:HE	6:AX:82:THR:HG22	1.62	0.61
6:AX:91:LEU:O	6:AX:92:ASN:C	2.43	0.61
6:AX:138:LYS:CA	6:AX:139:GLU:OE2	2.49	0.61
8:AS:27:ALA:O	8:AS:31:THR:HG23	2.01	0.61
8:AS:46:ARG:NH1	14:AT:50:GLU:HA	2.14	0.61
12:AR:100:PRO:HD2	12:AR:119:VAL:HG13	1.82	0.61
17:AV:9:VAL:CG1	17:AV:10:ASP:N	2.52	0.61
23:AD:29:LEU:HB2	23:AD:34:TYR:HB2	1.82	0.61
27:AE:87:MET:HG3	27:AE:123:LEU:O	2.00	0.61
28:AC:263:LYS:HD2	28:AC:268:GLU:HB3	1.82	0.61
32:AW:30:CYS:HA	32:AW:34:ILE:CD1	2.29	0.61
33:AI:62:VAL:HB	33:AI:75:LYS:CE	2.28	0.61
36:B2:124:U:H2'	36:B2:125:C:H5''	1.83	0.61
38:Cz:31:THR:HG21	38:Cz:168:ALA:HB1	1.83	0.61
40:CK:107:ASP:OD1	40:CK:143:VAL:HG11	1.95	0.61
44:CM:35:ARG:HH21	52:CS:108:GLN:NE2	1.96	0.61
45:Ca:80:THR:HG21	49:CQ:90:VAL:HG21	1.83	0.61
45:Ca:88:VAL:O	45:Ca:90:ALA:C	2.42	0.61
46:CN:87:HIS:CD2	46:CN:87:HIS:O	2.54	0.61
47:CI:90:ARG:O	47:CI:91:LEU:CG	2.47	0.61
50:CR:4:LEU:CD1	50:CR:33:ALA:HB2	2.17	0.61
51:CA:148:VAL:HG12	51:CA:149:LYS:N	2.16	0.61
52:CS:17:LEU:C	52:CS:18:PRO:O	2.34	0.61
54:CP:71:ALA:HB1	54:CP:74:LYS:CE	2.30	0.61
58:CW:55:TYR:CZ	58:CW:59:HIS:NE2	2.68	0.61
60:Cr:35:ARG:HG2	60:Cr:35:ARG:NH2	2.16	0.61
60:Cr:114:ALA:O	60:Cr:115:SER:C	2.39	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:112:ASP:O	63:CB:114:CYS:CA	2.48	0.61
63:CB:282:LYS:HB3	63:CB:333:LEU:CG	2.31	0.61
66:Cd:95:ASP:N	66:Cd:95:ASP:OD2	2.33	0.61
68:Cf:3:GLY:C	81:CE:276:ALA:HB1	2.24	0.61
68:Cf:70:ILE:HG22	68:Cf:88:PHE:CD2	2.35	0.61
70:Ci:73:ILE:HG21	70:Ci:83:ALA:HA	1.82	0.61
74:CC:33:ARG:CD	74:CC:122:TYR:OH	2.48	0.61
74:CC:174:LEU:C	74:CC:175:LYS:HD2	2.26	0.61
74:CC:346:ASN:O	74:CC:350:ARG:HD2	2.00	0.61
79:CJ:174:ILE:CG2	79:CJ:175:LEU:H	2.12	0.61
81:CE:46:ARG:O	81:CE:47:ASN:HB3	2.00	0.61
81:CE:111:LYS:HB3	81:CE:113:PRO:CD	2.30	0.61
82:CG:77:PRO:N	82:CG:237:TRP:HE3	1.98	0.61
82:CG:98:LEU:HD23	82:CG:218:LEU:CD1	2.31	0.61
82:CG:157:ILE:HD13	82:CG:170:LEU:HB2	1.82	0.61
1:Az:13:MET:HE1	1:Az:464:VAL:HA	1.81	0.61
1:Az:24:VAL:HG23	1:Az:32:LYS:CD	2.29	0.61
1:Az:575:PRO:O	1:Az:577:VAL:CG2	2.47	0.61
2:Ag:20:GLN:HB2	2:Ag:34:ALA:HB3	1.83	0.61
4:AK:2:LEU:O	4:AK:3:MET:CB	2.40	0.61
4:AK:12:TYR:CD2	4:AK:82:TYR:CD2	2.89	0.61
4:AK:47:LYS:HD3	4:AK:50:GLN:CD	2.26	0.61
4:AK:64:TRP:C	4:AK:65:ARG:HG2	2.24	0.61
5:AO:88:LEU:CG	15:AB:25:PHE:CD2	2.84	0.61
6:AX:5:ARG:HH21	6:AX:5:ARG:CG	2.12	0.61
10:AN:125:LEU:HD21	10:AN:129:TYR:CZ	2.35	0.61
13:AP:44:ARG:CZ	13:AP:84:ILE:HD12	2.24	0.61
18:AY:34:THR:CG2	18:AY:35:VAL:H	2.07	0.61
22:Ac:50:VAL:HG23	30:AF:142:SER:HB2	1.83	0.61
22:Ac:59:LEU:CB	30:AF:204:ARG:NH1	2.63	0.61
23:AD:166:TYR:CE1	23:AD:200:PRO:HB3	2.36	0.61
23:AD:218:LEU:HB2	23:AD:220:THR:HG22	1.78	0.61
24:Ae:38:TYR:CD1	26:AJ:29:LEU:O	2.54	0.61
24:Ae:40:ARG:HA	24:Ae:44:ASN:ND2	2.15	0.61
26:AJ:21:GLU:C	26:AJ:23:SER:N	2.58	0.61
26:AJ:135:ILE:O	26:AJ:135:ILE:HG13	1.99	0.61
27:AE:151:ASP:CG	29:AG:212:LEU:HD22	2.26	0.61
29:AG:28:TYR:OH	29:AG:104:ALA:HB2	2.01	0.61
29:AG:63:MET:CE	29:AG:106:LEU:CD2	2.78	0.61
29:AG:226:GLU:O	29:AG:230:LYS:HG3	2.00	0.61
30:AF:76:MET:HB3	30:AF:89:THR:OG1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:37:LYS:NZ	31:AH:41:ARG:HG3	2.16	0.61
33:AI:190:LEU:HB2	33:AI:195:LEU:HD13	1.83	0.61
36:B2:928:G:H1	36:B2:1013:U:H3	1.47	0.61
38:Cz:24:LYS:NZ	38:Cz:29:LEU:HD22	2.14	0.61
39:Cq:97:GLU:O	39:Cq:101:MET:HG2	2.00	0.61
39:Cq:189:ILE:HD11	39:Cq:192:VAL:HG22	1.77	0.61
40:CK:53:TRP:C	40:CK:54:LYS:O	2.43	0.61
40:CK:132:ILE:O	40:CK:135:THR:OG1	2.19	0.61
41:CO:29:LEU:O	68:Cf:10:ILE:HD13	1.99	0.61
41:CO:130:LYS:HE3	41:CO:133:ARG:NH2	2.16	0.61
42:CL:31:ARG:HH12	42:CL:34:ARG:HH11	1.48	0.61
42:CL:125:ILE:C	42:CL:138:ASP:OD2	2.42	0.61
45:Ca:65:ARG:NH2	45:Ca:65:ARG:CB	2.63	0.61
46:CN:76:PRO:O	46:CN:77:LYS:CB	2.48	0.61
46:CN:96:ARG:CZ	46:CN:104:GLU:OE2	2.48	0.61
48:CD:41:LYS:HG2	53:CT:93:ILE:CD1	2.23	0.61
49:CQ:8:ASN:N	49:CQ:8:ASN:ND2	2.30	0.61
50:CR:133:LYS:CG	50:CR:137:ILE:CD1	2.77	0.61
51:CA:225:ILE:HD13	51:CA:234:LYS:N	2.15	0.61
53:CT:68:THR:HG1	53:CT:71:ALA:CB	2.07	0.61
54:CP:10:ASN:ND2	54:CP:10:ASN:O	2.30	0.61
54:CP:114:ILE:HD11	54:CP:117:ILE:HB	1.82	0.61
54:CP:124:LYS:CE	54:CP:142:SER:OG	2.43	0.61
55:CU:33:ILE:HG12	55:CU:96:LEU:HD22	1.81	0.61
59:CZ:10:VAL:HG12	59:CZ:83:THR:HG21	1.82	0.61
62:Cb:50:ASN:C	62:Cb:54:LEU:HB3	2.25	0.61
63:CB:39:LYS:O	63:CB:40:PRO:C	2.40	0.61
63:CB:40:PRO:C	63:CB:187:GLY:HA2	2.24	0.61
63:CB:139:ASP:C	63:CB:141:ASP:N	2.58	0.61
66:Cd:109:VAL:O	66:Cd:111:VAL:CG2	2.40	0.61
69:Cg:63:VAL:HG12	69:Cg:67:LEU:HD12	1.81	0.61
72:Ck:14:THR:HA	72:Ck:17:ARG:CD	2.31	0.61
74:CC:14:LYS:O	74:CC:16:GLU:OE2	2.18	0.61
74:CC:77:PRO:HD2	74:CC:77:PRO:O	2.01	0.61
74:CC:154:VAL:CG1	74:CC:158:VAL:CG2	2.78	0.61
74:CC:303:ARG:HH12	74:CC:306:ARG:N	1.97	0.61
80:CH:110:SER:N	80:CH:128:MET:HB2	2.12	0.61
80:CH:130:PRO:CD	80:CH:130:PRO:O	2.48	0.61
81:CE:56:ARG:H	81:CE:61:ALA:H	1.46	0.61
81:CE:111:LYS:HB3	81:CE:113:PRO:HD3	1.80	0.61
81:CE:121:VAL:CG1	81:CE:122:PRO:N	2.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:526:ARG:HA	1:Az:529:LYS:HD2	1.82	0.61
2:Ag:197:THR:HG21	2:Ag:238:ALA:HA	1.83	0.61
2:Ag:200:VAL:HG12	2:Ag:201:SER:O	2.00	0.61
11:AL:8:ARG:NH1	33:AI:85:ALA:C	2.59	0.61
14:AT:85:ASN:H	14:AT:85:ASN:HD22	1.49	0.61
16:AA:180:ARG:CD	16:AA:184:ARG:CZ	2.78	0.61
20:Aa:85:ARG:H	36:B2:1866:A:H61	1.47	0.61
26:AJ:17:ARG:CG	26:AJ:17:ARG:O	2.29	0.61
31:AH:166:VAL:HG23	31:AH:173:PHE:CE2	2.35	0.61
33:AI:48:VAL:HG22	33:AI:52:ASN:C	2.25	0.61
33:AI:152:ARG:O	33:AI:153:LYS:HB3	1.99	0.61
33:AI:157:LYS:O	33:AI:158:ILE:HG22	2.00	0.61
34:AQ:126:ARG:C	36:B2:1648:G:H8	2.08	0.61
34:AQ:138:ARG:HB2	36:B2:1649:U:O3'	1.98	0.61
34:AQ:140:ARG:O	34:AQ:141:TYR:O	2.19	0.61
36:B2:193:C:O2'	36:B2:194:C:H5'	2.00	0.61
36:B2:536:A:N6	36:B2:548:C:O2	2.34	0.61
40:CK:109:ILE:O	40:CK:113:ALA:N	2.34	0.61
41:CO:124:LEU:CD2	52:CS:172:PRO:HD3	2.30	0.61
41:CO:185:VAL:CG1	44:CM:122:ILE:HG22	2.30	0.61
42:CL:164:GLU:O	42:CL:165:LYS:C	2.44	0.61
44:CM:107:PHE:HD1	81:CE:270:TYR:CE2	2.19	0.61
45:Ca:119:LYS:C	45:Ca:140:VAL:HG11	2.19	0.61
48:CD:153:THR:HG22	48:CD:179:ARG:HD2	1.82	0.61
48:CD:158:LYS:O	48:CD:161:GLY:N	2.33	0.61
50:CR:56:THR:C	50:CR:57:VAL:CG1	2.72	0.61
51:CA:30:ARG:O	51:CA:31:ALA:C	2.43	0.61
52:CS:30:MET:SD	52:CS:47:PHE:HB3	2.36	0.61
53:CT:23:GLY:C	53:CT:24:VAL:CG2	2.74	0.61
54:CP:9:GLU:O	54:CP:10:ASN:ND2	2.33	0.61
56:CX:142:PRO:CD	56:CX:143:ASP:H	2.09	0.61
60:Cr:78:VAL:O	60:Cr:81:THR:O	2.18	0.61
61:Ch:104:THR:OG1	61:Ch:107:GLN:HG2	2.00	0.61
61:Ch:106:LYS:O	61:Ch:109:ARG:NH1	2.33	0.61
62:Cb:23:LYS:HB3	62:Cb:24:PRO:CD	2.30	0.61
63:CB:365:LEU:HD23	63:CB:365:LEU:H	1.64	0.61
64:CF:162:ILE:HD12	64:CF:174:LEU:HD11	1.83	0.61
65:Cc:89:TYR:CD1	65:Cc:89:TYR:C	2.79	0.61
66:Cd:24:GLU:CD	66:Cd:122:VAL:HG21	2.23	0.61
67:Ce:66:THR:CA	67:Ce:69:MET:SD	2.87	0.61
68:Cf:42:TYR:OH	81:CE:284:HIS:HA	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:104:MET:N	68:Cf:104:MET:HE2	2.15	0.61
69:Cg:46:CYS:HA	69:Cg:82:MET:HA	1.83	0.61
69:Cg:97:ILE:HG22	69:Cg:101:LYS:HE3	1.81	0.61
69:Cg:106:VAL:O	69:Cg:110:GLN:N	2.28	0.61
74:CC:5:ARG:HH22	74:CC:26:ALA:HB2	1.66	0.61
74:CC:85:HIS:O	74:CC:85:HIS:CG	2.53	0.61
74:CC:210:ILE:O	74:CC:253:THR:HG23	2.01	0.61
74:CC:254:GLU:C	74:CC:256:ALA:N	2.56	0.61
79:CJ:22:LEU:CD2	79:CJ:130:PHE:CD1	2.81	0.61
79:CJ:145:LYS:HE3	86:A7:44:C:H5'	1.83	0.61
80:CH:86:LEU:HD23	80:CH:189:GLN:CG	2.29	0.61
80:CH:123:ILE:CG2	80:CH:125:ARG:NH2	2.64	0.61
82:CG:108:GLN:CA	82:CG:111:LYS:HE2	2.30	0.61
83:Cs:9:CYS:CB	83:Cs:47:PHE:CE1	2.84	0.61
84:Cu:16:SER:O	84:Cu:18:PRO:CD	2.49	0.61
85:A5:2385:U:H2'	85:A5:2386:U:C6	2.35	0.61
85:A5:2505:C:H4'	85:A5:2506:G:H5'	1.83	0.61
1:Az:42:LYS:CD	1:Az:79:TYR:HH	2.13	0.61
1:Az:430:MET:HE2	1:Az:486:THR:CG2	2.30	0.61
1:Az:449:ARG:HB3	1:Az:473:VAL:HG12	1.81	0.61
2:Ag:275:ILE:HD12	2:Ag:275:ILE:C	2.15	0.61
3:AU:109:GLY:C	3:AU:110:VAL:CG2	2.74	0.61
8:AS:26:ILE:O	8:AS:30:ILE:HG13	2.01	0.61
8:AS:40:TYR:CA	8:AS:83:PHE:HZ	2.14	0.61
9:Ad:36:LEU:HD21	9:Ad:52:PHE:HE2	1.64	0.61
13:AP:69:PRO:CD	13:AP:70:MET:N	2.61	0.61
16:AA:176:TRP:HZ2	16:AA:195:TRP:CE3	1.94	0.61
17:AV:9:VAL:HG12	17:AV:10:ASP:CA	2.31	0.61
18:AY:18:LEU:HD21	27:AE:64:ILE:HG13	1.81	0.61
19:AZ:65:TYR:N	19:AZ:65:TYR:CD1	2.67	0.61
21:Ab:10:PRO:HD2	21:Ab:10:PRO:O	2.01	0.61
21:Ab:12:PRO:O	21:Ab:16:LYS:CE	2.49	0.61
21:Ab:84:HIS:N	21:Ab:84:HIS:HD2	1.98	0.61
22:Ac:42:ILE:CG2	22:Ac:43:ILE:N	2.63	0.61
25:Af:109:ASP:O	25:Af:110:GLU:O	2.19	0.61
26:AJ:147:PHE:HE2	26:AJ:149:VAL:HA	1.64	0.61
28:AC:139:LEU:HD13	28:AC:140:GLY:N	2.16	0.61
28:AC:170:TRP:CH2	32:AW:97:ARG:CD	2.84	0.61
30:AF:45:TYR:O	30:AF:47:LYS:HE3	1.94	0.61
32:AW:128:PHE:CD1	32:AW:129:PHE:CA	2.84	0.61
36:B2:124:U:C2'	36:B2:125:C:H5''	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:1446:A:O2'	36:B2:1447:G:H5''	2.01	0.61
40:CK:124:GLU:HB2	40:CK:128:THR:HG21	1.79	0.61
44:CM:36:ALA:HB2	44:CM:52:PHE:CE1	2.36	0.61
45:Ca:120:GLN:HB3	45:Ca:121:PRO:HD2	1.82	0.61
47:CI:3:ARG:HG2	47:CI:4:ARG:N	2.15	0.61
48:CD:69:ILE:CG2	53:CT:31:MET:HB2	2.29	0.61
49:CQ:32:TYR:HD2	49:CQ:51:LEU:HD11	1.65	0.61
49:CQ:72:LEU:HB3	49:CQ:75:ARG:NE	2.06	0.61
49:CQ:77:ASN:CB	49:CQ:78:LYS:HE2	2.31	0.61
50:CR:129:GLY:C	50:CR:130:ASN:CG	2.66	0.61
52:CS:2:LYS:CE	52:CS:43:ARG:CG	2.62	0.61
56:CX:79:PHE:HD2	56:CX:99:ILE:HB	1.66	0.61
59:CZ:18:TYR:HD2	59:CZ:75:TYR:OH	1.84	0.61
59:CZ:30:ASP:O	59:CZ:39:SER:HA	2.00	0.61
59:CZ:33:THR:OG1	59:CZ:36:ARG:CG	2.48	0.61
59:CZ:33:THR:HG1	59:CZ:36:ARG:H	1.41	0.61
60:Cr:20:ARG:HB2	60:Cr:25:TYR:CE2	2.36	0.61
63:CB:58:ARG:HA	63:CB:366:LYS:CD	2.29	0.61
63:CB:213:GLN:NE2	63:CB:286:LYS:HA	2.16	0.61
65:Cc:22:MET:SD	65:Cc:27:TYR:CD2	2.94	0.61
65:Cc:82:GLY:O	65:Cc:87:LYS:N	2.29	0.61
67:Cc:65:LYS:O	67:Cc:65:LYS:CG	2.47	0.61
67:Cc:89:LEU:HD13	67:Cc:118:LEU:HD22	1.83	0.61
70:CI:60:LEU:CA	70:CI:64:SER:OG	2.48	0.61
74:CC:12:SER:HB2	74:CC:13:GLU:CG	2.26	0.61
74:CC:189:MET:CE	74:CC:200:ARG:NE	2.44	0.61
74:CC:304:ALA:HB1	74:CC:305:PRO:CD	2.30	0.61
79:CJ:20:LEU:CD1	79:CJ:132:VAL:HG23	2.30	0.61
80:CH:25:VAL:CG1	80:CH:38:PHE:HE2	2.10	0.61
81:CE:201:ILE:HD11	81:CE:260:LYS:HG2	1.81	0.61
82:CG:154:LEU:CD1	82:CG:204:PHE:HB2	2.31	0.61
85:A5:32:G:H21	85:A5:50:C:H5	1.49	0.61
85:A5:2005:G:N2	85:A5:2015:U:H1'	2.16	0.61
85:A5:3866:C:O5'	85:A5:3866:C:H6	1.84	0.61
85:A5:4752:U:O2	85:A5:4949:G:C8	2.54	0.61
1:Az:741:MET:HB2	1:Az:819:ILE:HA	1.81	0.61
1:Az:755:VAL:HG11	1:Az:808:ALA:HA	1.83	0.61
1:Az:758:GLY:HA3	1:Az:804:THR:HG22	1.83	0.61
8:AS:50:ILE:HG12	8:AS:63:GLU:HG2	1.83	0.61
10:AN:19:ARG:NH1	21:Ab:84:HIS:CB	2.64	0.61
12:AR:87:GLU:O	12:AR:88:VAL:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:45:LEU:HG	14:AT:46:ALA:N	2.15	0.61
15:AB:58:ALA:N	82:CG:264:LYS:CE	2.64	0.61
15:AB:87:ILE:CG2	15:AB:101:HIS:CG	2.84	0.61
17:AV:64:GLU:OE2	21:Ab:2:PRO:HA	2.00	0.61
18:AY:76:TYR:CG	18:AY:82:ALA:HB2	2.35	0.61
19:AZ:80:ARG:HB3	19:AZ:83:LEU:H	1.66	0.61
21:Ab:25:VAL:HG23	32:AW:53:ILE:HG21	1.81	0.61
24:Ae:31:ARG:NH1	24:Ae:32:ALA:N	2.49	0.61
24:Ae:44:ASN:HB2	24:Ae:45:VAL:HG23	1.81	0.61
27:AE:129:ILE:CG2	27:AE:139:LEU:CD2	2.79	0.61
27:AE:163:ASP:O	27:AE:164:LEU:CB	2.49	0.61
28:AC:84:PHE:CZ	28:AC:262:THR:CB	2.83	0.61
29:AG:184:VAL:CG1	29:AG:188:LYS:NZ	2.62	0.61
30:AF:36:GLN:HG3	30:AF:37:ASP:OD2	1.96	0.61
30:AF:44:LYS:CB	30:AF:45:TYR:CE1	2.69	0.61
31:AH:169:LYS:HD2	31:AH:173:PHE:HZ	1.66	0.61
33:AI:62:VAL:HG21	33:AI:75:LYS:HZ3	1.65	0.61
33:AI:112:TRP:CH2	33:AI:117:TYR:HE2	2.19	0.61
36:B2:532:C:O2'	36:B2:533:A:H5'	2.00	0.61
36:B2:742:U:C5	36:B2:743:U:C5	2.88	0.61
39:Cq:215:PHE:HE2	83:Cs:60:ILE:HG13	1.64	0.61
41:CO:82:ARG:CD	41:CO:85:ARG:HD3	2.31	0.61
42:CL:55:ILE:CD1	42:CL:120:TYR:CZ	2.80	0.61
42:CL:155:MET:H	42:CL:155:MET:HE3	1.65	0.61
48:CD:74:ILE:HD12	86:A7:115:A:H1'	1.83	0.61
49:CQ:6:ARG:NE	49:CQ:6:ARG:NH2	2.43	0.61
49:CQ:30:LYS:HE3	60:Cr:8:MET:HE1	1.82	0.61
49:CQ:187:LYS:CD	49:CQ:188:ASN:H	2.14	0.61
51:CA:134:ALA:HB1	51:CA:148:VAL:HG11	1.80	0.61
52:CS:30:MET:CE	52:CS:47:PHE:CG	2.69	0.61
52:CS:88:SER:OG	52:CS:89:GLY:HA3	1.99	0.61
56:CX:60:TYR:CG	61:Ch:78:TYR:O	2.46	0.61
57:CY:62:TYR:HB3	57:CY:66:GLN:HG2	1.82	0.61
57:CY:110:LYS:O	57:CY:115:ARG:HD2	2.00	0.61
59:CZ:5:MET:SD	59:CZ:25:ILE:HD13	2.41	0.61
61:Ch:3:LYS:O	61:Ch:4:ILE:HB	2.01	0.61
61:Ch:36:VAL:O	61:Ch:38:GLY:N	2.34	0.61
64:CF:172:ASN:OD1	64:CF:173:ALA:N	2.34	0.61
65:Cc:99:PRO:CD	65:Cc:105:ILE:HG12	2.30	0.61
73:Cl:23:ILE:HD11	73:Cl:37:TYR:C	2.26	0.61
74:CC:263:LEU:C	74:CC:264:TYR:CG	2.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:285:ILE:O	74:CC:286:ASN:CB	2.48	0.61
77:Cp:73:THR:O	77:Cp:77:VAL:HG23	2.00	0.61
81:CE:46:ARG:NH1	81:CE:47:ASN:N	2.45	0.61
81:CE:188:ARG:HH12	85:A5:4940:C:C1'	2.13	0.61
82:CG:121:LYS:CD	82:CG:122:ALA:HA	2.30	0.61
83:Cs:16:LEU:HG	83:Cs:31:LEU:CD1	2.31	0.61
83:Cs:17:HIS:CE1	83:Cs:23:VAL:HG23	2.34	0.61
85:A5:463:A:H61	85:A5:692:A:H61	1.47	0.61
2:Ag:83:TRP:HH2	12:AR:29:HIS:HB3	1.66	0.60
2:Ag:100:ARG:HH22	36:B2:1399:C:C5'	2.14	0.60
2:Ag:172:LYS:HE2	2:Ag:192:THR:CB	2.31	0.60
5:AO:90:ILE:HG22	5:AO:124:MET:HE2	1.82	0.60
14:AT:27:LYS:O	14:AT:27:LYS:HG3	2.00	0.60
15:AB:59:SER:H	82:CG:264:LYS:CE	2.13	0.60
16:AA:27:GLY:O	16:AA:47:TYR:CD2	2.54	0.60
16:AA:84:GLN:O	16:AA:88:LEU:CD2	2.49	0.60
19:AZ:64:ASN:O	19:AZ:111:ARG:CZ	2.48	0.60
21:Ab:5:LYS:HZ2	21:Ab:5:LYS:HB3	1.64	0.60
21:Ab:33:MET:SD	21:Ab:79:PHE:CD1	2.94	0.60
26:AJ:92:MET:O	26:AJ:93:LYS:NZ	2.34	0.60
26:AJ:124:HIS:O	26:AJ:126:ALA:N	2.33	0.60
27:AE:122:LYS:CD	27:AE:164:LEU:HD21	2.31	0.60
29:AG:177:GLN:HE22	36:B2:315:C:H5'	1.66	0.60
30:AF:195:GLU:OE1	30:AF:195:GLU:CA	2.49	0.60
33:AI:48:VAL:HG23	33:AI:52:ASN:HB3	1.81	0.60
36:B2:1286:G:N2	36:B2:1313:A:N7	2.49	0.60
38:Cz:210:MET:N	38:Cz:210:MET:HG2	2.16	0.60
39:Cq:69:LEU:C	39:Cq:71:ASN:H	2.08	0.60
40:CK:1:MET:N	40:CK:2:PRO:CB	2.61	0.60
40:CK:22:VAL:CG1	40:CK:44:ASP:O	2.49	0.60
42:CL:48:PRO:HA	42:CL:49:ARG:C	2.24	0.60
42:CL:154:VAL:O	42:CL:154:VAL:HG13	2.00	0.60
45:Ca:84:GLU:C	45:Ca:87:ARG:HG3	2.18	0.60
46:CN:112:ALA:O	46:CN:138:PHE:CE2	2.54	0.60
47:CI:38:ARG:HG3	47:CI:83:ASP:CA	2.31	0.60
49:CQ:43:PHE:CE1	49:CQ:138:LEU:HD21	2.36	0.60
49:CQ:119:LYS:HE2	49:CQ:121:LEU:HD21	1.80	0.60
51:CA:188:LYS:HG2	51:CA:189:TYR:N	2.14	0.60
52:CS:160:ARG:HB3	52:CS:163:HIS:HB2	1.83	0.60
52:CS:168:THR:HG21	52:CS:172:PRO:HB2	1.83	0.60
54:CP:39:MET:CE	54:CP:43:LYS:HB3	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:63:ILE:HD11	55:CU:72:VAL:HG22	1.75	0.60
55:CU:97:ARG:O	55:CU:98:ASP:HB2	2.01	0.60
56:CX:38:LYS:HE3	56:CX:40:ILE:HG22	1.82	0.60
57:CY:47:MET:HE3	57:CY:48:PRO:HD3	1.76	0.60
63:CB:260:ALA:O	63:CB:261:ARG:CG	2.48	0.60
64:CF:148:LYS:HD3	64:CF:245:ARG:NH1	2.15	0.60
66:Cd:57:MET:HB3	66:Cd:90:ARG:CZ	2.31	0.60
66:Cd:112:THR:OG1	66:Cd:113:THR:N	2.29	0.60
67:Ce:37:LYS:O	67:Ce:39:ARG:NH2	2.33	0.60
80:CH:63:ASN:CB	80:CH:66:GLU:OE1	2.43	0.60
81:CE:113:PRO:HB3	85:A5:458:C:O5'	2.00	0.60
82:CG:135:VAL:HG12	82:CG:136:LEU:O	2.01	0.60
82:CG:140:VAL:CG2	85:A5:150:U:H5'	2.31	0.60
83:Ct:12:SER:N	84:Cv:9:LEU:CD2	2.56	0.60
85:A5:173:C:H2'	85:A5:174:C:C6	2.35	0.60
85:A5:1268:G:C5	85:A5:2111:G:N2	2.69	0.60
1:Az:13:MET:HE3	1:Az:464:VAL:HG13	1.74	0.60
1:Az:238:ALA:HB1	1:Az:239:LYS:CB	2.31	0.60
1:Az:297:ILE:C	1:Az:300:VAL:HG22	2.25	0.60
2:Ag:163:PRO:HB2	2:Ag:179:LEU:HB2	1.83	0.60
10:AN:27:LYS:CE	10:AN:27:LYS:N	2.57	0.60
11:AL:59:LYS:HE2	11:AL:134:LEU:HD21	1.83	0.60
11:AL:96:ILE:O	11:AL:99:TYR:O	2.20	0.60
16:AA:202:TYR:O	16:AA:203:PHE:CB	2.49	0.60
17:AV:9:VAL:CG2	28:AC:176:LYS:HD3	2.31	0.60
18:AY:98:GLU:OE2	18:AY:99:LYS:HA	2.01	0.60
21:Ab:1:MET:N	21:Ab:2:PRO:HD3	2.16	0.60
21:Ab:25:VAL:CG2	32:AW:53:ILE:HG22	2.31	0.60
25:Af:103:LEU:HD23	25:Af:105:TYR:CA	2.32	0.60
26:AJ:16:PRO:CD	26:AJ:44:TRP:CE2	2.83	0.60
27:AE:115:THR:HB	27:AE:116:PRO:HD2	1.81	0.60
28:AC:108:LYS:CE	28:AC:110:MET:HG2	2.31	0.60
29:AG:177:GLN:HG2	29:AG:178:ARG:H	1.66	0.60
32:AW:20:ARG:HB3	32:AW:22:LYS:HD3	1.82	0.60
32:AW:128:PHE:CD1	32:AW:128:PHE:C	2.78	0.60
35:Ah:150:GLU:HA	35:Ah:153:VAL:HG11	1.74	0.60
36:B2:319:C:H2'	36:B2:319:C:O2	2.01	0.60
40:CK:61:LYS:HD3	40:CK:72:GLU:C	2.25	0.60
46:CN:50:ARG:HH21	46:CN:50:ARG:CG	2.07	0.60
46:CN:96:ARG:NH1	46:CN:104:GLU:CG	2.63	0.60
46:CN:99:GLN:O	46:CN:102:ALA:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:17:ARG:HA	69:Cg:76:ARG:CB	2.31	0.60
59:CZ:91:LEU:O	59:CZ:117:LYS:CE	2.49	0.60
61:Ch:36:VAL:O	61:Ch:37:THR:C	2.43	0.60
61:Ch:85:PRO:C	61:Ch:86:LYS:HD2	2.26	0.60
63:CB:58:ARG:HA	63:CB:366:LYS:HD3	1.82	0.60
63:CB:126:LYS:O	63:CB:127:LYS:CG	2.48	0.60
63:CB:150:PHE:HB3	63:CB:194:LEU:HD21	0.82	0.60
63:CB:168:MET:CE	63:CB:173:LEU:HD23	2.32	0.60
64:CF:134:ARG:HH12	86:A7:97:G:H1'	1.65	0.60
64:CF:155:TYR:HE1	64:CF:191:ILE:HD11	1.66	0.60
64:CF:241:ASN:O	64:CF:244:ILE:HG22	2.01	0.60
66:Cd:112:THR:HG21	66:Cd:113:THR:HG23	1.82	0.60
67:Ce:16:ARG:CG	67:Ce:17:THR:H	2.10	0.60
67:Ce:80:HIS:CB	67:Ce:84:GLU:CD	2.74	0.60
69:Cg:38:VAL:CG1	69:Cg:40:LYS:HE2	2.31	0.60
69:Cg:43:LYS:CA	69:Cg:51:GLY:O	2.49	0.60
70:Ci:22:SER:O	70:Ci:23:LYS:HG3	2.01	0.60
70:Ci:74:LYS:C	70:Ci:74:LYS:CD	2.73	0.60
71:Cj:2:THR:HB	71:Cj:6:SER:HB3	1.83	0.60
74:CC:7:LEU:N	74:CC:24:LEU:HD22	2.10	0.60
74:CC:104:PRO:O	74:CC:104:PRO:CD	2.48	0.60
74:CC:295:SER:OG	74:CC:298:ILE:CB	2.48	0.60
75:Cm:127:VAL:HG12	75:Cm:127:VAL:O	1.99	0.60
79:CJ:117:ILE:O	79:CJ:118:LYS:O	2.19	0.60
81:CE:149:ILE:CG2	81:CE:199:THR:HB	2.31	0.60
81:CE:149:ILE:HD12	81:CE:271:LEU:HD23	1.82	0.60
81:CE:181:LEU:HD11	81:CE:268:GLN:CB	2.31	0.60
81:CE:219:LYS:CE	85:A5:1291:G:OP1	2.50	0.60
81:CE:284:HIS:NE2	81:CE:285:LYS:HD2	2.16	0.60
1:Az:183:GLU:OE1	1:Az:183:GLU:HA	2.01	0.60
1:Az:269:ALA:O	1:Az:270:ASN:C	2.35	0.60
1:Az:692:LEU:HG	1:Az:824:PRO:CG	2.30	0.60
1:Az:827:ASN:ND2	1:Az:827:ASN:O	2.30	0.60
2:Ag:42:MET:HB2	2:Ag:92:LEU:HD11	1.84	0.60
4:AK:95:ARG:HD3	4:AK:96:ARG:O	2.00	0.60
7:AM:89:VAL:HG21	7:AM:109:VAL:CG1	2.27	0.60
7:AM:89:VAL:CG2	7:AM:109:VAL:HG11	2.26	0.60
7:AM:95:ASP:HB2	7:AM:101:ARG:NH1	2.17	0.60
8:AS:85:ASN:HD21	8:AS:98:VAL:HB	1.64	0.60
13:AP:28:MET:HB3	13:AP:32:GLN:OE1	2.01	0.60
13:AP:49:LEU:HA	13:AP:51:ARG:NE	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:225:LEU:O	15:AB:229:MET:CG	2.48	0.60
16:AA:57:LYS:HE2	17:AV:70:LEU:CD2	2.31	0.60
16:AA:119:PRO:HG2	16:AA:142:LEU:CD1	2.27	0.60
24:Ae:31:ARG:N	26:AJ:38:ARG:NE	2.41	0.60
27:AE:23:LEU:O	27:AE:24:THR:CB	2.49	0.60
27:AE:93:ASP:O	27:AE:95:THR:N	2.32	0.60
27:AE:122:LYS:HG3	27:AE:164:LEU:HD21	1.81	0.60
30:AF:103:LEU:HG	30:AF:103:LEU:O	2.01	0.60
33:AI:6:ASP:OD2	33:AI:8:TRP:CD1	2.54	0.60
36:B2:744:G:H2'	36:B2:745:C:C6	2.37	0.60
42:CL:29:PRO:CD	42:CL:30:ALA:H	2.14	0.60
45:Ca:146:LEU:O	70:Ci:6:PRO:HG3	2.01	0.60
46:CN:56:LYS:HZ1	46:CN:145:ASN:HD22	1.47	0.60
49:CQ:22:ASP:OD1	74:CC:33:ARG:HB3	2.01	0.60
49:CQ:110:ARG:NE	49:CQ:120:ILE:HD11	1.76	0.60
52:CS:169:THR:HG22	52:CS:169:THR:O	2.01	0.60
58:CW:8:PHE:HZ	58:CW:49:ILE:CD1	2.13	0.60
58:CW:33:ASN:O	58:CW:37:GLU:CD	2.43	0.60
60:Cr:78:VAL:HG21	60:Cr:82:ILE:CA	2.31	0.60
60:Cr:118:LEU:O	60:Cr:122:LYS:HD3	2.01	0.60
63:CB:133:TYR:HE1	63:CB:136:LYS:HZ2	1.47	0.60
63:CB:229:LYS:HB2	63:CB:272:LYS:HB3	1.83	0.60
65:Cc:37:MET:HG2	65:Cc:43:ALA:CA	2.31	0.60
69:Cg:11:LEU:HD23	69:Cg:13:TYR:N	2.15	0.60
69:Cg:107:LEU:O	69:Cg:107:LEU:HD23	2.01	0.60
74:CC:9:SER:CA	74:CC:21:ASN:OD1	2.49	0.60
74:CC:130:ALA:HB1	74:CC:246:VAL:HG12	1.81	0.60
78:Co:25:GLN:HE22	78:Co:91:PHE:HE2	1.45	0.60
79:CJ:134:LEU:HB2	79:CJ:157:ILE:HD13	1.83	0.60
82:CG:73:ARG:HH12	82:CG:242:LEU:CA	2.13	0.60
82:CG:104:PRO:C	82:CG:105:GLU:OE2	2.44	0.60
82:CG:240:ASN:O	82:CG:241:VAL:HB	2.00	0.60
82:CG:243:GLY:HA3	82:CG:244:PRO:HD3	1.82	0.60
83:Cs:42:PHE:C	83:Cs:44:PRO:CD	2.74	0.60
84:Cu:16:SER:O	84:Cu:18:PRO:HD3	2.02	0.60
85:A5:4755:G:N2	85:A5:4878:C:C2	2.69	0.60
1:Az:73:THR:CA	1:Az:104:ASP:HB2	2.30	0.60
1:Az:111:PHE:HB2	1:Az:501:VAL:CG2	2.29	0.60
1:Az:125:ALA:C	1:Az:154:VAL:HG12	2.27	0.60
1:Az:205:ILE:HG13	1:Az:211:THR:CB	2.30	0.60
1:Az:526:ARG:HH11	1:Az:526:ARG:CG	2.12	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:801:ARG:CD	1:Az:802:SER:N	2.64	0.60
2:Ag:119:GLN:HE22	2:Ag:131:LEU:HG	1.66	0.60
2:Ag:162:ASN:CG	2:Ag:163:PRO:CD	2.71	0.60
2:Ag:201:SER:CB	2:Ag:202:PRO:HD3	2.12	0.60
4:AK:62:PHE:HE1	4:AK:67:PHE:HE2	1.48	0.60
5:AO:17:LEU:CD2	5:AO:18:GLY:N	2.63	0.60
6:AX:1:MET:O	6:AX:3:LYS:HB2	2.02	0.60
6:AX:5:ARG:HH21	6:AX:5:ARG:HB2	1.65	0.60
8:AS:111:LEU:HD22	8:AS:125:HIS:CE1	2.37	0.60
10:AN:94:LYS:HE3	10:AN:118:ILE:HD11	1.82	0.60
12:AR:13:ALA:CA	12:AR:54:VAL:CG2	2.68	0.60
12:AR:111:PHE:HE1	16:AA:12:GLU:CA	2.12	0.60
13:AP:108:LYS:CB	13:AP:110:GLU:OE1	2.45	0.60
16:AA:149:ASN:HB2	16:AA:165:ASN:HD21	1.65	0.60
16:AA:186:ARG:H	17:AV:46:PHE:H	1.48	0.60
17:AV:4:ASP:HA	28:AC:173:LYS:NZ	2.16	0.60
18:AY:118:ARG:NH1	29:AG:85:ARG:HD3	2.16	0.60
22:Ac:47:LYS:NZ	30:AF:141:VAL:CG2	2.64	0.60
23:AD:55:THR:HA	23:AD:58:VAL:HG22	1.83	0.60
23:AD:71:ALA:O	23:AD:75:LYS:HG2	2.01	0.60
23:AD:115:VAL:CG2	35:Ah:177:ARG:HA	2.26	0.60
24:Ae:19:VAL:HG12	24:Ae:20:ALA:O	2.01	0.60
26:AJ:16:PRO:C	26:AJ:18:ARG:H	2.09	0.60
26:AJ:106:LEU:O	26:AJ:109:ARG:HG3	2.02	0.60
26:AJ:170:PRO:HG3	26:AJ:175:ARG:HG2	1.81	0.60
27:AE:180:LEU:CD1	27:AE:228:ILE:HD11	2.32	0.60
29:AG:135:PRO:HG2	29:AG:144:LEU:CD2	2.32	0.60
31:AH:166:VAL:HG23	31:AH:173:PHE:CZ	2.37	0.60
34:AQ:58:LEU:HD13	34:AQ:108:ILE:CG2	2.26	0.60
39:Cq:180:ILE:HG22	39:Cq:182:PRO:HD3	1.83	0.60
39:Cq:253:VAL:CG2	39:Cq:263:GLU:C	2.74	0.60
40:CK:111:ASN:O	40:CK:115:GLN:HG3	2.00	0.60
40:CK:121:LEU:HB2	40:CK:129:ILE:HD11	1.83	0.60
41:CO:39:GLU:OE2	41:CO:157:GLU:OE2	2.18	0.60
41:CO:192:TYR:HD1	41:CO:192:TYR:H	1.48	0.60
42:CL:160:VAL:CG2	42:CL:161:TYR:H	2.13	0.60
46:CN:3:ALA:HB2	82:CG:140:VAL:CG1	2.30	0.60
46:CN:155:VAL:HG12	46:CN:155:VAL:O	1.99	0.60
48:CD:190:PHE:HZ	48:CD:195:HIS:CG	2.19	0.60
49:CQ:4:ASP:HB2	64:CF:98:ILE:HG13	1.82	0.60
49:CQ:50:ARG:O	49:CQ:53:MET:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:53:MET:CE	49:CQ:143:ARG:NH2	2.50	0.60
49:CQ:61:LEU:CD1	49:CQ:139:LEU:HB3	2.29	0.60
50:CR:133:LYS:HD2	50:CR:137:ILE:CD1	2.31	0.60
53:CT:91:VAL:CG1	53:CT:96:ILE:HD11	2.31	0.60
53:CT:143:THR:HA	53:CT:146:LYS:CG	2.24	0.60
54:CP:124:LYS:HD2	54:CP:140:MET:CE	2.31	0.60
55:CU:24:ASP:H	55:CU:111:GLU:HG2	1.66	0.60
55:CU:125:GLU:CD	55:CU:125:GLU:C	2.67	0.60
57:CY:54:GLU:O	57:CY:55:VAL:HG23	2.01	0.60
57:CY:89:LYS:HD3	57:CY:90:ALA:CA	2.31	0.60
58:CW:87:LEU:CB	58:CW:90:ILE:HD12	2.32	0.60
59:CZ:3:LYS:C	59:CZ:6:LYS:HE3	2.19	0.60
60:Cr:25:TYR:CE2	67:Ce:77:PHE:CD1	2.89	0.60
60:Cr:44:ILE:O	60:Cr:45:HIS:CB	2.48	0.60
60:Cr:136:SER:HB3	60:Cr:137:SER:O	2.00	0.60
63:CB:19:ARG:O	63:CB:275:HIS:HE1	1.85	0.60
63:CB:92:TYR:O	63:CB:157:CYS:HA	2.01	0.60
63:CB:299:ILE:O	63:CB:299:ILE:HG23	2.00	0.60
66:Cd:59:THR:O	66:Cd:59:THR:CG2	2.40	0.60
66:Cd:85:ARG:HB2	66:Cd:114:PHE:HE1	1.64	0.60
68:Cf:106:TYR:CD2	68:Cf:106:TYR:N	2.65	0.60
74:CC:142:HIS:HE1	74:CC:248:ARG:CA	2.13	0.60
74:CC:222:ARG:HG2	74:CC:222:ARG:O	2.01	0.60
75:Cm:77:ILE:C	75:Cm:78:ILE:HG22	2.14	0.60
78:Co:73:VAL:HG12	78:Co:74:GLU:CB	2.32	0.60
79:CJ:110:GLN:C	79:CJ:111:GLU:CG	2.72	0.60
80:CH:47:LEU:HA	80:CH:55:LEU:HD23	1.82	0.60
80:CH:129:ARG:CD	80:CH:130:PRO:HD3	2.30	0.60
81:CE:239:LYS:HE2	85:A5:4939:C:C6	2.36	0.60
81:CE:258:LEU:HA	81:CE:261:ILE:HG12	1.83	0.60
82:CG:261:LEU:HG	82:CG:265:LEU:HD23	1.83	0.60
83:Cs:42:PHE:C	83:Cs:44:PRO:HD3	2.26	0.60
84:Cv:16:SER:O	84:Cv:17:SER:C	2.45	0.60
85:A5:42:A:O2'	85:A5:43:U:H5'	2.02	0.60
1:Az:167:LEU:HA	80:CH:100:PRO:CD	2.30	0.60
1:Az:571:LYS:HE3	1:Az:572:LYS:H	1.65	0.60
1:Az:579:TYR:O	1:Az:695:GLU:OE2	2.19	0.60
2:Ag:240:CYS:SG	2:Ag:291:TRP:HD1	2.25	0.60
2:Ag:255:SER:HB3	2:Ag:271:LYS:HG3	1.82	0.60
4:AK:84:HIS:CD2	7:AM:27:ILE:CG1	2.85	0.60
7:AM:86:GLY:N	7:AM:106:CYS:HB2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:33:ALA:O	18:AY:34:THR:CB	2.49	0.60
18:AY:52:PRO:CD	18:AY:53:ASP:N	2.64	0.60
19:AZ:51:ASP:O	19:AZ:52:LYS:HB2	2.02	0.60
23:AD:53:THR:O	23:AD:90:LYS:HE2	2.01	0.60
23:AD:177:LEU:HD12	23:AD:178:ARG:NH2	2.15	0.60
23:AD:196:GLY:O	23:AD:199:GLY:HA3	2.02	0.60
26:AJ:79:ARG:HD2	26:AJ:83:ARG:HD2	1.82	0.60
28:AC:164:PRO:CB	28:AC:248:TYR:CD2	2.80	0.60
28:AC:244:ILE:CG1	28:AC:245:SER:N	2.64	0.60
29:AG:131:ARG:O	58:CW:83:THR:HG23	2.01	0.60
34:AQ:8:GLN:HA	34:AQ:99:TYR:OH	2.01	0.60
35:Ah:157:ILE:O	35:Ah:157:ILE:CG2	2.49	0.60
38:Cz:34:LEU:HG	38:Cz:204:LEU:HD21	1.83	0.60
40:CK:92:ARG:O	40:CK:93:LYS:CB	2.42	0.60
43:CV:101:ASN:OD1	43:CV:101:ASN:N	2.29	0.60
44:CM:33:GLN:OE1	80:CH:61:TRP:CZ2	2.45	0.60
47:CI:76:MET:CB	47:CI:85:PHE:CZ	2.84	0.60
48:CD:10:LYS:HG2	86:A7:65:G:O3'	2.01	0.60
49:CQ:25:LEU:N	74:CC:283:LYS:HD3	2.15	0.60
49:CQ:110:ARG:CD	49:CQ:120:ILE:HD13	2.31	0.60
53:CT:146:LYS:O	53:CT:147:GLU:CD	2.44	0.60
54:CP:64:ASN:OD1	54:CP:65:GLY:N	2.34	0.60
56:CX:60:TYR:CD1	56:CX:60:TYR:O	2.54	0.60
57:CY:3:PHE:CZ	74:CC:222:ARG:CD	2.77	0.60
59:CZ:21:ARG:HG3	59:CZ:46:ILE:O	2.00	0.60
60:Cr:16:PHE:CD1	60:Cr:28:GLU:OE2	2.39	0.60
60:Cr:33:LYS:HB3	60:Cr:35:ARG:HG3	1.84	0.60
60:Cr:71:ARG:N	60:Cr:71:ARG:NE	2.48	0.60
63:CB:219:VAL:HG21	63:CB:337:VAL:CG1	2.31	0.60
63:CB:298:LEU:HA	63:CB:300:LYS:CG	2.31	0.60
64:CF:89:LEU:HD13	64:CF:89:LEU:C	2.26	0.60
66:Cd:18:ASN:O	66:Cd:20:VAL:O	2.18	0.60
66:Cd:89:SER:OG	66:Cd:105:LEU:CG	2.49	0.60
74:CC:15:GLY:H	74:CC:173:LYS:HG3	1.67	0.60
74:CC:63:SER:CB	74:CC:80:ARG:NH1	2.33	0.60
74:CC:184:TYR:CE2	74:CC:225:PRO:HG2	2.36	0.60
75:Cm:103:LEU:HD23	75:Cm:111:ARG:HH22	1.67	0.60
80:CH:105:ILE:HG23	80:CH:112:VAL:CA	2.03	0.60
81:CE:74:SER:N	81:CE:74:SER:HB2	2.14	0.60
81:CE:182:ASN:O	81:CE:183:ARG:CB	2.50	0.60
82:CG:73:ARG:NH1	82:CG:242:LEU:CA	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:139:GLY:O	82:CG:140:VAL:C	2.42	0.60
1:Az:77:LEU:HB2	1:Az:100:ILE:HB	1.82	0.60
2:Ag:70:VAL:CG1	2:Ag:79:LEU:HB2	2.32	0.60
3:AU:107:GLU:OE2	23:AD:40:ARG:HD3	2.02	0.60
4:AK:14:LEU:HD21	4:AK:35:LEU:HD13	1.81	0.60
12:AR:36:GLU:OE2	12:AR:47:ARG:HD2	2.00	0.60
13:AP:53:GLN:HE21	13:AP:80:LEU:CG	2.14	0.60
21:Ab:25:VAL:CG2	32:AW:53:ILE:HG21	2.32	0.60
22:Ac:63:ARG:O	22:Ac:64:GLU:HB3	2.02	0.60
26:AJ:136:ARG:HG3	26:AJ:160:SER:HB3	1.82	0.60
27:AE:67:GLN:O	27:AE:68:ARG:CG	2.50	0.60
29:AG:50:VAL:CG1	29:AG:111:LEU:CG	2.78	0.60
30:AF:36:GLN:O	30:AF:37:ASP:HB2	2.01	0.60
32:AW:96:SER:OG	32:AW:98:GLN:HG2	2.01	0.60
35:Ah:140:LYS:C	35:Ah:142:LEU:H	2.10	0.60
38:Cz:124:LEU:HD13	38:Cz:128:LEU:HD11	1.82	0.60
38:Cz:216:LEU:HD12	38:Cz:216:LEU:C	2.26	0.60
39:Cq:242:ILE:CD1	83:Ct:63:VAL:HG23	2.29	0.60
39:Cq:271:ASP:C	39:Cq:275:PHE:HD2	2.04	0.60
40:CK:52:ASP:O	40:CK:54:LYS:N	2.35	0.60
40:CK:140:GLY:O	40:CK:141:CYS:HB2	2.00	0.60
41:CO:12:ARG:CB	41:CO:37:ARG:HD2	2.31	0.60
48:CD:20:PHE:CE2	48:CD:30:TYR:CD2	2.89	0.60
48:CD:104:LEU:CD2	48:CD:247:ILE:CD1	2.80	0.60
48:CD:130:TYR:HD2	48:CD:131:ASN:C	2.05	0.60
50:CR:8:LYS:HG2	50:CR:22:VAL:CG2	2.32	0.60
52:CS:169:THR:O	52:CS:169:THR:CG2	2.50	0.60
53:CT:16:SER:O	53:CT:18:PRO:CD	2.44	0.60
53:CT:125:TRP:CG	53:CT:126:VAL:N	2.50	0.60
54:CP:53:LEU:O	54:CP:54:GLN:HB2	2.01	0.60
57:CY:55:VAL:HG13	57:CY:104:VAL:HG11	1.05	0.60
57:CY:83:GLU:O	57:CY:84:ARG:HB3	2.00	0.60
60:Cr:17:LEU:HD12	60:Cr:25:TYR:O	2.01	0.60
60:Cr:26:SER:H	60:Cr:34:ALA:C	2.00	0.60
60:Cr:33:LYS:HB2	60:Cr:33:LYS:HZ3	1.67	0.60
63:CB:198:ARG:O	63:CB:201:LEU:HD13	2.02	0.60
67:Ce:43:ASN:ND2	67:Ce:46:ARG:H	1.99	0.60
68:Cf:101:ILE:HD13	68:Cf:101:ILE:N	2.17	0.60
74:CC:12:SER:CA	74:CC:13:GLU:OE1	2.49	0.60
74:CC:124:ILE:CD1	74:CC:237:ILE:HD11	2.18	0.60
75:Cm:92:ASP:C	75:Cm:93:LYS:HG2	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:111:LEU:CD2	80:CH:127:ARG:CG	2.78	0.60
82:CG:183:ILE:HB	82:CG:226:TYR:CE1	2.36	0.60
1:Az:206:ASP:HB2	1:Az:207:PRO:CD	2.22	0.60
1:Az:208:VAL:HG11	1:Az:258:LYS:HA	1.82	0.60
1:Az:526:ARG:O	1:Az:529:LYS:HG3	2.01	0.60
1:Az:590:LEU:HD23	1:Az:605:LYS:CG	2.32	0.60
4:AK:1:MET:HG3	36:B2:1274:G:H5''	1.83	0.60
4:AK:71:LEU:CG	4:AK:76:ILE:CD1	2.80	0.60
5:AO:19:PRO:HG3	5:AO:27:VAL:HG11	1.81	0.60
7:AM:117:GLU:C	7:AM:118:SER:HG	2.04	0.60
15:AB:31:TYR:CE1	15:AB:94:LYS:N	2.68	0.60
17:AV:31:SER:HB3	17:AV:57:GLY:H	1.67	0.60
18:AY:110:ARG:O	18:AY:114:MET:HG3	2.01	0.60
21:Ab:12:PRO:CA	21:Ab:16:LYS:HE2	2.31	0.60
26:AJ:122:SER:OG	26:AJ:124:HIS:HB3	1.98	0.60
27:AE:62:LYS:CA	27:AE:65:CYS:SG	2.88	0.60
27:AE:104:ASP:HB2	27:AE:108:ARG:H	1.65	0.60
27:AE:124:CYS:SG	27:AE:162:ILE:CD1	2.88	0.60
28:AC:94:ILE:HD11	28:AC:162:ILE:HD11	1.83	0.60
29:AG:7:PHE:HB2	29:AG:124:LEU:HG	1.84	0.60
29:AG:176:ILE:CG2	29:AG:179:LEU:CG	2.78	0.60
31:AH:117:PRO:C	31:AH:119:SER:N	2.54	0.60
34:AQ:50:LYS:NZ	34:AQ:85:ARG:HH21	1.69	0.60
36:B2:1601:A:H5'	36:B2:1602:U:H5	1.67	0.60
38:Cz:120:ILE:HD13	38:Cz:135:PRO:HG3	1.82	0.60
38:Cz:123:ILE:HD12	38:Cz:123:ILE:N	2.17	0.60
38:Cz:184:HIS:O	38:Cz:187:VAL:HG22	2.01	0.60
39:Cq:116:ILE:HG21	39:Cq:166:LYS:HZ3	1.66	0.60
39:Cq:127:ASN:CA	39:Cq:153:GLU:HG2	2.31	0.60
39:Cq:139:GLN:O	39:Cq:142:GLY:CA	2.48	0.60
41:CO:119:VAL:HG11	41:CO:124:LEU:HD21	1.84	0.60
41:CO:127:VAL:HG12	52:CS:158:VAL:HG21	1.82	0.60
42:CL:9:VAL:CG1	42:CL:10:LEU:N	2.60	0.60
42:CL:94:ILE:HG21	42:CL:120:TYR:CE2	2.27	0.60
42:CL:182:LEU:HD12	45:Ca:129:PHE:CD2	2.33	0.60
47:CI:55:ASP:OD1	47:CI:55:ASP:O	2.18	0.60
50:CR:182:GLU:O	50:CR:186:LYS:HG2	2.01	0.60
52:CS:82:LEU:HD21	52:CS:124:ILE:CD1	2.32	0.60
55:CU:40:GLU:CG	55:CU:70:ILE:CG1	2.78	0.60
57:CY:79:VAL:HG11	57:CY:98:GLY:HA3	1.84	0.60
58:CW:21:TYR:HE2	58:CW:23:ARG:HB2	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:46:ILE:HG22	59:CZ:118:PHE:CD2	2.36	0.60
63:CB:41:VAL:CA	63:CB:187:GLY:CA	2.70	0.60
66:Cd:43:PRO:CD	66:Cd:44:ARG:H	2.03	0.60
67:Ce:5:ARG:C	67:Ce:93:LYS:CE	2.75	0.60
74:CC:57:LEU:HD12	74:CC:61:GLN:NE2	2.12	0.60
81:CE:219:LYS:CE	85:A5:1291:G:H5"	2.31	0.60
82:CG:42:GLY:CA	82:CG:43:GLN:HG2	2.28	0.60
82:CG:78:PRO:HD3	82:CG:237:TRP:CE2	2.37	0.60
1:Az:113:SER:CB	1:Az:533:MET:HE2	2.30	0.60
1:Az:588:ASN:OD1	1:Az:588:ASN:C	2.44	0.60
2:Ag:64:HIS:HE1	2:Ag:65:PHE:CE2	2.19	0.60
4:AK:90:VAL:O	4:AK:90:VAL:HG22	2.02	0.60
8:AS:88:LYS:N	8:AS:94:LYS:O	2.35	0.60
9:Ad:22:ARG:HH12	23:AD:16:ILE:CG2	2.15	0.60
10:AN:28:LEU:CD1	10:AN:58:HIS:CE1	2.85	0.60
11:AL:32:LYS:O	11:AL:33:LEU:HD23	2.01	0.60
12:AR:120:THR:O	12:AR:121:GLN:CB	2.44	0.60
15:AB:38:MET:CE	15:AB:186:ASN:ND2	2.52	0.60
15:AB:136:ARG:HD3	15:AB:138:PHE:CZ	2.37	0.60
16:AA:127:PRO:HA	16:AA:134:LEU:CD1	2.31	0.60
16:AA:140:VAL:O	16:AA:140:VAL:CG1	2.43	0.60
18:AY:62:THR:CA	18:AY:69:THR:HG22	2.32	0.60
26:AJ:77:LEU:O	26:AJ:81:LEU:HG	2.01	0.60
27:AE:56:LEU:HD23	27:AE:56:LEU:N	2.16	0.60
27:AE:130:PHE:CB	27:AE:138:HIS:CD2	2.84	0.60
28:AC:156:ILE:O	28:AC:160:LEU:HD23	2.02	0.60
32:AW:3:ARG:NE	32:AW:9:ASP:OD2	2.35	0.60
32:AW:23:ARG:HH11	32:AW:23:ARG:HG2	1.66	0.60
33:AI:140:LYS:O	33:AI:141:ARG:CG	2.48	0.60
33:AI:144:LYS:O	33:AI:145:ILE:CG2	2.49	0.60
34:AQ:54:PRO:CG	34:AQ:88:ILE:HD12	2.32	0.60
34:AQ:109:LYS:NZ	34:AQ:113:ILE:HD11	2.17	0.60
36:B2:752:G:N2	36:B2:791:C:O2	2.31	0.60
40:CK:52:ASP:HB2	40:CK:53:TRP:CD1	2.36	0.60
42:CL:29:PRO:CD	42:CL:30:ALA:N	2.64	0.60
44:CM:25:VAL:HG13	44:CM:39:ASP:CA	2.28	0.60
47:CI:9:TYR:CD1	47:CI:97:ILE:CG2	2.81	0.60
47:CI:101:LYS:HZ3	47:CI:101:LYS:HB3	1.66	0.60
48:CD:110:LEU:HD11	48:CD:115:MET:HB3	1.84	0.60
51:CA:95:GLN:OE1	51:CA:97:ASN:OD1	2.18	0.60
51:CA:103:PRO:HG2	51:CA:106:THR:CG2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:246:LEU:HB3	51:CA:250:LYS:O	2.01	0.60
52:CS:113:MET:CB	52:CS:124:ILE:HD11	2.32	0.60
53:CT:5:LYS:H	53:CT:9:ARG:CD	2.14	0.60
53:CT:64:VAL:HG13	53:CT:72:VAL:CG1	2.32	0.60
56:CX:153:ILE:CG1	56:CX:155:ILE:HG22	2.32	0.60
58:CW:19:ARG:HH22	85:A5:4630:G:H4'	1.67	0.60
58:CW:86:SER:OG	58:CW:89:ASP:OD2	2.19	0.60
61:Ch:79:LYS:CB	61:Ch:80:PRO:HD2	2.32	0.60
63:CB:352:LEU:HD23	63:CB:352:LEU:C	2.26	0.60
64:CF:200:ARG:O	64:CF:203:GLU:OE1	2.20	0.60
74:CC:28:PHE:CD1	74:CC:129:ALA:CA	2.84	0.60
74:CC:229:LEU:N	74:CC:229:LEU:CD2	2.52	0.60
74:CC:286:ASN:O	74:CC:287:THR:HB	2.01	0.60
78:Co:73:VAL:CG1	78:Co:74:GLU:N	2.30	0.60
82:CG:45:ILE:HD13	82:CG:45:ILE:O	2.02	0.60
82:CG:71:TYR:C	82:CG:73:ARG:N	2.56	0.60
83:Cs:52:ALA:O	83:Cs:53:ASN:HB2	2.01	0.60
85:A5:1756:U:O2	85:A5:1756:U:H2'	2.02	0.60
1:Az:207:PRO:CB	1:Az:261:TRP:CD2	2.85	0.60
1:Az:208:VAL:HG13	1:Az:258:LYS:HA	1.83	0.60
1:Az:738:PRO:O	1:Az:824:PRO:HD2	2.01	0.60
1:Az:745:TYR:HD1	1:Az:815:ASP:CG	2.03	0.60
1:Az:752:PRO:C	1:Az:754:GLN:N	2.59	0.60
4:AK:83:LEU:CB	4:AK:85:LEU:HG	2.30	0.60
6:AX:10:ALA:N	11:AL:101:ARG:HB2	2.16	0.60
10:AN:27:LYS:HD2	10:AN:27:LYS:C	2.25	0.60
13:AP:13:ARG:O	13:AP:14:LYS:CG	2.50	0.60
16:AA:6:ASP:O	16:AA:8:LEU:N	2.35	0.60
16:AA:14:ASP:O	16:AA:18:PHE:HD2	1.84	0.60
16:AA:143:PRO:CG	17:AV:32:ILE:HG23	2.26	0.60
16:AA:180:ARG:NH1	16:AA:184:ARG:CZ	2.65	0.60
21:Ab:50:ALA:O	21:Ab:52:THR:N	2.35	0.60
22:Ac:5:ARG:N	22:Ac:5:ARG:CD	2.63	0.60
23:AD:135:GLU:HB3	23:AD:153:VAL:HG22	1.82	0.60
26:AJ:81:LEU:HD12	26:AJ:97:ILE:HD11	1.83	0.60
27:AE:86:PHE:CE1	27:AE:182:MET:SD	2.95	0.60
28:AC:116:THR:CG2	28:AC:118:ALA:C	2.68	0.60
28:AC:169:TYR:OH	28:AC:176:LYS:N	2.34	0.60
34:AQ:116:ASP:O	34:AQ:117:ARG:CB	2.50	0.60
36:B2:1086:G:O2'	36:B2:1087:A:H5'	2.02	0.60
36:B2:1528:G:H22	36:B2:1665:G:H21	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:100:VAL:O	38:Cz:102:LYS:O	2.20	0.60
39:Cq:264:LYS:C	39:Cq:268:PHE:CD2	2.80	0.60
42:CL:150:LEU:O	42:CL:151:THR:CG2	2.49	0.60
47:CI:76:MET:CB	47:CI:85:PHE:CE2	2.85	0.60
49:CQ:95:VAL:HG23	49:CQ:116:ALA:CB	2.26	0.60
52:CS:127:MET:HG3	52:CS:128:LYS:CG	2.26	0.60
53:CT:111:GLU:CG	53:CT:115:LYS:HE3	2.31	0.60
55:CU:26:THR:HG22	55:CU:68:SER:HB2	1.84	0.60
55:CU:125:GLU:OE1	55:CU:125:GLU:C	2.45	0.60
56:CX:60:TYR:CD2	61:Ch:78:TYR:CA	2.85	0.60
58:CW:87:LEU:CG	58:CW:90:ILE:HD12	2.27	0.60
59:CZ:55:ALA:HA	82:CG:32:PHE:CE2	2.37	0.60
60:Cr:42:GLY:HA3	60:Cr:43:LEU:HD21	1.82	0.60
61:Ch:81:LEU:HA	61:Ch:84:ARG:HD2	1.83	0.60
64:CF:28:LEU:O	64:CF:29:LYS:C	2.44	0.60
65:Cc:51:ASN:O	65:Cc:52:CYS:C	2.44	0.60
67:Ce:16:ARG:HG3	67:Ce:18:LYS:H	1.67	0.60
67:Ce:43:ASN:O	67:Ce:47:ARG:HG3	2.01	0.60
67:Ce:72:SER:OG	67:Ce:74:PHE:CD2	2.50	0.60
68:Cf:80:ASN:OD1	68:Cf:80:ASN:N	2.30	0.60
71:Cj:16:HIS:CE1	71:Cj:28:HIS:HB2	2.36	0.60
74:CC:7:LEU:CD2	74:CC:21:ASN:HB3	2.30	0.60
74:CC:303:ARG:O	74:CC:304:ALA:O	2.19	0.60
74:CC:318:PRO:O	74:CC:320:LYS:CA	2.49	0.60
80:CH:108:ASN:O	80:CH:110:SER:HA	2.02	0.60
80:CH:129:ARG:HD2	80:CH:153:LEU:HD22	1.84	0.60
82:CG:71:TYR:CD1	82:CG:72:LYS:HG2	2.36	0.60
84:Cv:24:LYS:HG2	84:Cv:39:LEU:CD1	2.31	0.60
85:A5:4751:G:H1'	85:A5:4950:U:C4	2.36	0.60
1:Az:267:ASP:C	1:Az:267:ASP:OD1	2.45	0.60
1:Az:739:ARG:HH12	1:Az:823:ASP:HB2	1.59	0.60
1:Az:753:GLU:CG	1:Az:782:PHE:HE1	2.13	0.60
2:Ag:88:ARG:HD2	2:Ag:90:TRP:CE2	2.37	0.60
2:Ag:219:TRP:CD2	2:Ag:226:HIS:CD2	2.89	0.60
3:AU:62:ARG:HH11	3:AU:79:ARG:HD3	1.67	0.60
4:AK:89:ILE:O	4:AK:90:VAL:HG12	2.02	0.60
6:AX:10:ALA:HB1	11:AL:101:ARG:O	1.96	0.60
7:AM:14:VAL:O	7:AM:16:THR:N	2.35	0.60
10:AN:128:TYR:O	10:AN:132:LYS:HG2	2.02	0.60
13:AP:7:LYS:O	13:AP:9:LYS:N	2.31	0.60
13:AP:43:ARG:NH1	13:AP:46:ASN:HD22	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:49:VAL:HG12	15:AB:50:THR:N	2.16	0.60
15:AB:188:LEU:CD2	15:AB:212:VAL:HG21	2.31	0.60
17:AV:40:ASP:OD2	17:AV:45:ARG:HB2	2.02	0.60
18:AY:9:THR:HG21	18:AY:48:TYR:HE2	1.67	0.60
18:AY:12:PHE:HD1	18:AY:23:MET:HB3	1.67	0.60
18:AY:37:LYS:HA	18:AY:40:ILE:CG2	2.32	0.60
18:AY:46:LYS:O	18:AY:46:LYS:CD	2.50	0.60
18:AY:114:MET:CE	18:AY:125:VAL:CG2	2.74	0.60
19:AZ:103:HIS:HD2	19:AZ:105:ALA:CB	2.14	0.60
19:AZ:103:HIS:HD2	19:AZ:105:ALA:HB3	1.58	0.60
21:Ab:81:ARG:CA	21:Ab:82:LYS:CB	2.79	0.60
23:AD:74:GLN:HE22	23:AD:75:LYS:CE	2.10	0.60
23:AD:192:TRP:N	23:AD:192:TRP:CD1	2.67	0.60
23:AD:222:PRO:C	23:AD:223:ILE:CD1	2.74	0.60
24:Ae:44:ASN:CA	24:Ae:45:VAL:CB	2.77	0.60
26:AJ:16:PRO:C	26:AJ:18:ARG:N	2.52	0.60
26:AJ:170:PRO:HB3	26:AJ:174:LYS:HE2	1.83	0.60
28:AC:169:TYR:CD2	28:AC:173:LYS:HA	2.37	0.60
28:AC:271:ASP:OD1	28:AC:271:ASP:N	2.33	0.60
29:AG:142:ARG:HE	29:AG:147:LEU:HB3	1.67	0.60
36:B2:834:C:C2	36:B2:841:G:N2	2.69	0.60
36:B2:896:U:H2'	36:B2:897:U:H5'	1.84	0.60
39:Cq:167:VAL:CG2	39:Cq:183:PHE:HE1	2.08	0.60
39:Cq:254:GLU:OE1	84:Cv:54:VAL:HG21	2.02	0.60
41:CO:22:ILE:CD1	41:CO:120:VAL:CG1	2.80	0.60
42:CL:167:ARG:NH2	42:CL:170:THR:OG1	2.35	0.60
43:CV:91:LYS:HZ3	63:CB:67:VAL:CG2	2.15	0.60
44:CM:34:ASN:C	44:CM:35:ARG:CG	2.74	0.60
45:Ca:2:PRO:HD2	45:Ca:5:LEU:HD12	1.84	0.60
47:CI:109:ASP:H	47:CI:112:GLN:HE21	1.48	0.60
48:CD:210:TYR:CD2	48:CD:211:LEU:HD23	2.36	0.60
51:CA:67:TYR:CD1	82:CG:46:GLN:HB2	2.36	0.60
51:CA:254:GLU:HB3	51:CA:255:LYS:C	2.27	0.60
52:CS:22:CYS:H	52:CS:23:HIS:CD2	2.17	0.60
52:CS:137:CYS:SG	52:CS:143:LYS:CA	2.90	0.60
53:CT:65:TYR:O	53:CT:65:TYR:HD1	1.84	0.60
53:CT:132:PRO:CD	64:CF:126:ASN:HD21	2.15	0.60
54:CP:27:LYS:HD3	54:CP:63:TYR:HB3	1.83	0.60
57:CY:44:VAL:HG11	57:CY:122:LYS:HD2	1.84	0.60
58:CW:88:ALA:C	58:CW:90:ILE:N	2.57	0.60
58:CW:109:ILE:O	58:CW:113:LYS:CG	2.46	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:150:PHE:C	63:CB:152:SER:N	2.54	0.60
63:CB:327:THR:HG23	63:CB:328:ASN:OD1	2.01	0.60
65:Cc:11:LEU:CA	65:Cc:12:GLU:CG	2.76	0.60
67:Ce:5:ARG:NE	67:Ce:6:PRO:HD3	2.17	0.60
68:Cf:106:TYR:CD2	68:Cf:106:TYR:C	2.71	0.60
71:Cj:81:GLY:C	71:Cj:82:THR:CG2	2.75	0.60
71:Cj:86:PRO:HA	71:Cj:87:LYS:HB2	1.84	0.60
72:Ck:40:ARG:HB3	72:Ck:41:TYR:CE1	2.37	0.60
74:CC:101:MET:HE3	74:CC:105:THR:H	1.65	0.60
79:CJ:95:ARG:O	79:CJ:98:ASN:HB2	2.01	0.60
79:CJ:99:PHE:CD1	79:CJ:105:PHE:CB	2.84	0.60
81:CE:203:ILE:HG12	81:CE:205:ASN:O	2.02	0.60
82:CG:98:LEU:C	82:CG:98:LEU:CD1	2.75	0.60
82:CG:113:ARG:C	82:CG:113:ARG:CD	2.60	0.60
84:Cv:15:ASN:O	84:Cv:16:SER:C	2.45	0.60
85:A5:1303:A:H2'	85:A5:1304:C:H5'	1.83	0.60
85:A5:3767:C:O5'	85:A5:3767:C:H6	1.84	0.60
85:A5:4665:A:H5''	85:A5:4666:G:OP2	2.01	0.60
1:Az:226:LYS:HZ2	1:Az:356:ILE:CD1	2.08	0.59
2:Ag:4:GLN:HG2	2:Ag:5:MET:H	1.67	0.59
2:Ag:32:LEU:HD11	2:Ag:40:ILE:HG21	1.84	0.59
3:AU:57:PRO:HD2	3:AU:57:PRO:O	2.01	0.59
4:AK:40:VAL:HG23	4:AK:41:PRO:CD	2.29	0.59
27:AE:100:ARG:HG2	27:AE:102:ILE:HD12	1.84	0.59
28:AC:123:ARG:NH2	28:AC:143:CYS:SG	2.75	0.59
30:AF:166:ILE:HD12	30:AF:166:ILE:N	2.16	0.59
31:AH:15:LYS:CB	31:AH:16:PRO:CD	2.54	0.59
31:AH:50:GLU:OE2	31:AH:90:LYS:HE2	2.02	0.59
31:AH:64:VAL:HG22	31:AH:72:PHE:HE2	1.65	0.59
33:AI:144:LYS:NZ	36:B2:192:C:C5	2.67	0.59
34:AQ:45:ARG:NH1	36:B2:1593:C:H4'	2.16	0.59
36:B2:1291:A:H2'	36:B2:1302:G:C8	2.37	0.59
36:B2:1601:A:N6	36:B2:1636:G:C2	2.70	0.59
38:Cz:143:ASN:C	38:Cz:147:LYS:H	2.10	0.59
38:Cz:155:ILE:HD12	38:Cz:167:VAL:CG2	2.15	0.59
39:Cq:78:LEU:HD21	39:Cq:193:PHE:CB	2.32	0.59
40:CK:123:ARG:CZ	40:CK:129:ILE:CD1	2.80	0.59
41:CO:27:VAL:CG1	41:CO:98:ALA:CA	2.80	0.59
42:CL:89:LYS:HD2	61:Ch:114:TYR:CD2	2.36	0.59
44:CM:66:HIS:CD2	52:CS:148:SER:OG	2.55	0.59
44:CM:104:MET:HE2	44:CM:112:VAL:HG21	1.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:68:ALA:HB2	47:CI:159:PHE:CZ	2.36	0.59
48:CD:42:ASN:ND2	53:CT:68:THR:HA	2.17	0.59
48:CD:188:LYS:O	48:CD:189:GLU:HG3	2.01	0.59
49:CQ:187:LYS:CE	49:CQ:188:ASN:ND2	2.57	0.59
49:CQ:187:LYS:HZ1	49:CQ:188:ASN:ND2	1.97	0.59
50:CR:65:LYS:HA	50:CR:68:LEU:HD21	1.82	0.59
56:CX:81:LEU:CD2	56:CX:129:ARG:HH11	2.14	0.59
57:CY:2:LYS:HE2	57:CY:7:VAL:C	2.27	0.59
57:CY:82:ILE:O	57:CY:83:GLU:C	2.43	0.59
60:Cr:47:LYS:O	60:Cr:47:LYS:CG	2.48	0.59
60:Cr:60:VAL:N	60:Cr:121:GLN:OE1	2.29	0.59
63:CB:142:GLY:O	63:CB:147:GLU:HB2	2.01	0.59
63:CB:383:GLU:C	63:CB:383:GLU:CD	2.70	0.59
66:Cd:91:LYS:C	66:Cd:103:TYR:HB2	2.26	0.59
70:CI:55:ARG:O	70:CI:59:GLU:HG2	2.01	0.59
74:CC:47:ASN:O	74:CC:112:HIS:CE1	2.55	0.59
74:CC:303:ARG:CG	74:CC:303:ARG:NH1	2.57	0.59
80:CH:23:ARG:HH22	80:CH:42:ASN:HA	1.67	0.59
80:CH:92:MET:SD	80:CH:161:ILE:HG21	2.42	0.59
83:Cs:29:ASN:O	83:Cs:33:LYS:HG3	2.02	0.59
1:Az:401:MET:HE1	1:Az:476:ASP:HA	1.83	0.59
1:Az:512:LYS:CG	1:Az:569:PRO:HB2	2.30	0.59
1:Az:597:ASN:OD1	1:Az:720:GLN:HG3	2.02	0.59
2:Ag:298:LEU:HD21	2:Ag:310:TRP:CB	2.31	0.59
3:AU:69:PRO:O	3:AU:69:PRO:HG2	2.02	0.59
5:AO:31:CYS:HB2	5:AO:95:ILE:CG1	2.27	0.59
10:AN:76:LYS:C	10:AN:76:LYS:CD	2.75	0.59
13:AP:75:VAL:CG1	13:AP:76:VAL:N	2.64	0.59
16:AA:74:VAL:HG22	16:AA:121:LEU:HB3	1.84	0.59
16:AA:122:LEU:CD1	16:AA:137:ALA:HB2	2.32	0.59
20:Aa:31:PRO:O	20:Aa:34:LYS:O	2.19	0.59
21:Ab:12:PRO:CD	21:Ab:13:GLU:N	2.55	0.59
21:Ab:64:CYS:HG	21:Ab:73:LEU:CD2	1.89	0.59
22:Ac:59:LEU:HD11	30:AF:123:GLU:CB	2.32	0.59
23:AD:216:GLU:O	23:AD:217:ILE:CD1	2.49	0.59
25:Af:90:LYS:O	25:Af:91:ASN:O	2.19	0.59
26:AJ:46:VAL:HG12	26:AJ:102:ILE:HD12	1.82	0.59
26:AJ:79:ARG:O	26:AJ:83:ARG:CG	2.47	0.59
27:AE:108:ARG:NH2	36:B2:846:G:OP2	2.28	0.59
27:AE:256:LEU:HD12	27:AE:257:ALA:N	2.16	0.59
28:AC:127:PHE:HD2	28:AC:141:VAL:HG22	1.58	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:163:VAL:HB	28:AC:164:PRO:HD3	1.83	0.59
29:AG:131:ARG:H	58:CW:81:ALA:HB3	1.66	0.59
31:AH:23:ILE:HD13	31:AH:23:ILE:O	2.01	0.59
32:AW:90:GLN:N	32:AW:102:ILE:HD11	2.17	0.59
33:AI:105:ASP:O	33:AI:106:SER:HB2	2.02	0.59
33:AI:141:ARG:O	33:AI:142:SER:CB	2.50	0.59
36:B2:127:C:H42	36:B2:181:A:P	2.26	0.59
36:B2:1291:A:H2'	36:B2:1302:G:N7	2.17	0.59
39:Cq:6:ARG:HG2	39:Cq:10:LYS:HE3	0.62	0.59
39:Cq:123:VAL:HG12	39:Cq:154:ILE:HD13	1.84	0.59
39:Cq:242:ILE:HG21	83:Ct:63:VAL:HG21	1.82	0.59
40:CK:85:LEU:CD1	40:CK:109:ILE:HG22	2.32	0.59
40:CK:102:GLY:HA2	40:CK:140:GLY:N	2.07	0.59
40:CK:124:GLU:CB	40:CK:128:THR:CG2	2.75	0.59
42:CL:74:ARG:HD3	42:CL:74:ARG:C	2.26	0.59
43:CV:89:ARG:CB	43:CV:95:PHE:CZ	2.84	0.59
43:CV:107:ASN:HD21	43:CV:111:GLU:HB2	1.66	0.59
47:CI:38:ARG:HD2	47:CI:83:ASP:HB2	1.84	0.59
47:CI:109:ASP:O	47:CI:110:ARG:CD	2.50	0.59
49:CQ:144:LYS:CE	49:CQ:149:TYR:CZ	2.85	0.59
50:CR:142:ILE:O	50:CR:145:LEU:HG	2.00	0.59
50:CR:171:LYS:O	50:CR:175:GLU:N	2.31	0.59
51:CA:147:ARG:HG3	51:CA:157:VAL:CG2	2.31	0.59
51:CA:209:HIS:ND1	51:CA:211:PHE:CB	2.65	0.59
53:CT:23:GLY:O	53:CT:24:VAL:HG22	2.03	0.59
56:CX:142:PRO:CD	56:CX:143:ASP:N	2.65	0.59
58:CW:27:LYS:CE	58:CW:29:PHE:CE1	2.84	0.59
59:CZ:85:TYR:HE2	69:Cg:99:GLU:OE2	1.84	0.59
60:Cr:34:ALA:HB1	67:Ce:87:VAL:HG13	1.84	0.59
63:CB:198:ARG:HA	63:CB:201:LEU:CD1	2.32	0.59
63:CB:223:THR:CG2	63:CB:275:HIS:N	2.41	0.59
63:CB:235:TRP:O	63:CB:236:HIS:O	2.19	0.59
64:CF:101:VAL:HG13	64:CF:106:ARG:CD	2.28	0.59
66:Cd:25:TYR:CD1	66:Cd:56:GLU:OE1	2.55	0.59
69:Cg:45:ALA:CB	69:Cg:47:GLY:H	2.13	0.59
70:Ci:73:ILE:HG22	70:Ci:83:ALA:HA	1.84	0.59
73:Cl:43:HIS:NE2	73:Cl:45:ARG:HB2	2.16	0.59
74:CC:101:MET:CE	74:CC:105:THR:H	2.14	0.59
74:CC:171:LEU:HD21	74:CC:209:ILE:HD11	1.83	0.59
74:CC:266:THR:HA	74:CC:279:LEU:HD11	1.85	0.59
78:Co:65:LYS:CA	78:Co:66:ILE:HD12	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:27:VAL:HA	81:CE:28:LYS:HG3	1.84	0.59
82:CG:161:VAL:CG1	82:CG:164:ILE:HA	2.32	0.59
82:CG:162:ASP:HB2	82:CG:163:PRO:CD	2.06	0.59
83:C α :40:GLU:O	83:C α :44:PRO:CG	2.49	0.59
85:A5:3971:G:H3'	85:A5:3971:G:C8	2.37	0.59
1:Az:140:GLU:HG3	1:Az:188:ILE:HD13	1.84	0.59
1:Az:423:THR:HG22	1:Az:450:THR:H	1.66	0.59
1:Az:502:SER:CB	1:Az:504:VAL:CG1	2.48	0.59
1:Az:669:VAL:HG11	1:Az:707:VAL:O	2.01	0.59
1:Az:675:ILE:HG21	1:Az:709:LEU:HD11	1.83	0.59
1:Az:693:CYS:SG	1:Az:835:VAL:HG22	2.43	0.59
5:AO:46:ASP:O	5:AO:49:GLY:N	2.33	0.59
8:AS:90:VAL:HG12	8:AS:91:LYS:HG2	1.82	0.59
9:Ad:5:GLN:CB	9:Ad:7:TYR:CD2	2.61	0.59
9:Ad:5:GLN:HG2	9:Ad:7:TYR:CZ	2.35	0.59
15:AB:119:THR:HB	15:AB:143:THR:HG23	1.84	0.59
15:AB:145:LYS:HA	15:AB:149:GLN:OE1	2.02	0.59
16:AA:14:ASP:O	16:AA:18:PHE:CD2	2.55	0.59
16:AA:118:GLU:HB2	28:AC:65:LYS:HZ3	1.62	0.59
16:AA:164:ASN:C	16:AA:166:LYS:H	2.07	0.59
16:AA:180:ARG:NH1	16:AA:184:ARG:NH2	2.50	0.59
17:AV:1:MET:CE	17:AV:10:ASP:CB	2.56	0.59
17:AV:53:TYR:CG	17:AV:72:LEU:HD13	2.36	0.59
29:AG:13:GLN:O	29:AG:14:LYS:HG2	2.02	0.59
29:AG:63:MET:HE3	29:AG:106:LEU:HD22	1.84	0.59
31:AH:190:PRO:HG2	31:AH:192:PHE:CZ	2.38	0.59
34:AQ:76:GLY:O	34:AQ:80:GLN:HG2	2.00	0.59
36:B2:1822:A:H3'	36:B2:1823:A:H2'	1.84	0.59
40:CK:5:PHE:CE1	40:CK:37:LEU:HD21	2.37	0.59
40:CK:32:ILE:C	40:CK:34:PRO:CD	2.74	0.59
47:CI:10:ARG:CZ	47:CI:58:GLU:OE1	2.50	0.59
48:CD:57:ASN:N	48:CD:58:ARG:HD3	2.11	0.59
48:CD:196:ARG:NH2	48:CD:237:GLU:OE2	2.34	0.59
49:CQ:28:LEU:HD13	49:CQ:51:LEU:CD1	2.31	0.59
49:CQ:161:SER:OG	49:CQ:162:HIS:CE1	2.54	0.59
50:CR:16:ARG:HH12	85:A5:2699:C:H5''	1.65	0.59
50:CR:101:ILE:CG1	50:CR:104:ARG:HH11	2.09	0.59
52:CS:83:ARG:HG2	52:CS:92:ASN:ND2	2.09	0.59
52:CS:111:ARG:CG	52:CS:111:ARG:NH2	2.37	0.59
52:CS:141:ALA:O	52:CS:144:GLN:NE2	2.35	0.59
52:CS:161:ARG:O	52:CS:162:GLN:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:174:THR:HG23	52:CS:175:PHE:H	1.65	0.59
58:CW:8:PHE:CE1	58:CW:46:PRO:HG3	2.36	0.59
58:CW:76:VAL:O	58:CW:77:LYS:HE2	2.02	0.59
59:CZ:5:MET:SD	59:CZ:25:ILE:HD12	2.41	0.59
63:CB:143:LYS:HG2	63:CB:143:LYS:O	2.02	0.59
63:CB:197:ALA:O	63:CB:201:LEU:HD12	2.01	0.59
63:CB:203:GLN:HG3	63:CB:204:GLN:N	2.17	0.59
66:CD:21:VAL:CG1	66:CD:23:ARG:NH2	1.94	0.59
68:Cf:53:ALA:HB1	68:Cf:54:LYS:HG2	1.83	0.59
69:Cg:46:CYS:CB	69:Cg:86:CYS:SG	2.90	0.59
70:CI:10:GLY:HA3	70:CI:11:LEU:CD1	2.33	0.59
70:CI:19:LYS:O	70:CI:20:ASN:O	2.20	0.59
70:CI:33:LEU:O	70:CI:34:THR:O	2.20	0.59
70:CI:66:ASP:O	70:CI:69:ALA:N	2.33	0.59
72:Ck:69:LEU:C	72:Ck:69:LEU:CD2	2.76	0.59
74:CC:134:PRO:HD2	74:CC:135:ALA:N	2.04	0.59
74:CC:296:PRO:CD	74:CC:297:GLU:N	2.30	0.59
74:CC:341:LEU:C	74:CC:343:GLN:N	2.59	0.59
77:Cp:51:ALA:HB3	77:Cp:54:ILE:HG21	1.83	0.59
78:Co:72:CYS:HA	78:Co:73:VAL:CG2	2.11	0.59
81:CE:162:VAL:O	81:CE:163:VAL:HG13	2.02	0.59
81:CE:266:GLN:O	81:CE:268:GLN:N	2.35	0.59
82:CG:35:ARG:C	82:CG:36:PRO:CD	2.74	0.59
1:Az:12:ILE:HG21	1:Az:99:LEU:HD22	1.85	0.59
1:Az:189:ILE:HG21	1:Az:203:ILE:HG13	1.83	0.59
1:Az:462:GLU:O	1:Az:463:ASP:HB3	2.02	0.59
2:Ag:46:THR:CB	2:Ag:48:ASP:CB	2.79	0.59
4:AK:12:TYR:CZ	4:AK:52:LEU:HD21	2.37	0.59
7:AM:33:ARG:HH11	7:AM:33:ARG:CG	2.15	0.59
11:AL:80:MET:HE3	11:AL:120:VAL:HG12	1.83	0.59
11:AL:118:ARG:HG2	11:AL:119:ASP:H	1.67	0.59
13:AP:69:PRO:CD	13:AP:70:MET:H	2.12	0.59
14:AT:11:GLN:CD	14:AT:62:ARG:CZ	2.70	0.59
14:AT:38:LYS:HD2	14:AT:46:ALA:N	2.17	0.59
16:AA:119:PRO:HG3	16:AA:122:LEU:HD21	1.84	0.59
18:AY:88:LYS:HE3	18:AY:97:TYR:OH	2.03	0.59
19:AZ:52:LYS:O	19:AZ:54:THR:N	2.35	0.59
21:Ab:33:MET:HE3	21:Ab:79:PHE:CD1	2.34	0.59
23:AD:5:ILE:O	23:AD:6:SER:N	2.33	0.59
26:AJ:84:ILE:O	26:AJ:108:ARG:CD	2.50	0.59
26:AJ:131:ARG:NH1	26:AJ:143:ASN:HD21	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:152:TRP:O	30:AF:153:LEU:C	2.46	0.59
31:AH:6:ALA:CB	31:AH:10:LYS:HZ3	2.14	0.59
34:AQ:18:THR:C	34:AQ:75:GLY:CA	2.75	0.59
35:Ah:296:ILE:HA	35:Ah:298:ASN:HD21	1.68	0.59
36:B2:1411:G:H3'	36:B2:1412:C:C5'	2.32	0.59
38:Cz:111:LEU:HB2	38:Cz:143:ASN:OD1	2.02	0.59
39:Cq:51:ALA:HB2	39:Cq:91:THR:HG21	1.84	0.59
39:Cq:232:PRO:HG3	84:Cu:42:VAL:HG23	1.84	0.59
39:Cq:245:TYR:HH	83:Ct:56:ILE:HG23	1.66	0.59
40:CK:114:ARG:NH1	40:CK:130:LYS:HB3	2.17	0.59
41:CO:82:ARG:HH11	41:CO:85:ARG:NH1	2.00	0.59
52:CS:45:TRP:HE1	52:CS:61:ILE:CD1	2.14	0.59
54:CP:57:CYS:SG	54:CP:83:TRP:NE1	2.75	0.59
57:CY:79:VAL:HG12	57:CY:80:ILE:N	2.18	0.59
58:CW:80:ARG:NH2	58:CW:80:ARG:CG	2.46	0.59
58:CW:88:ALA:O	58:CW:91:MET:N	2.36	0.59
63:CB:153:MET:CE	63:CB:194:LEU:HB2	2.32	0.59
68:Cf:15:LYS:HG2	68:Cf:22:ARG:HG2	1.84	0.59
68:Cf:76:ARG:NH2	68:Cf:85:ARG:NH1	2.50	0.59
70:Ci:64:SER:C	70:Ci:65:LYS:HD2	2.27	0.59
72:Ck:31:ASN:HB3	72:Ck:46:VAL:HG12	1.71	0.59
74:CC:253:THR:O	74:CC:256:ALA:CA	2.50	0.59
74:CC:299:GLN:HA	74:CC:302:LEU:HD12	1.83	0.59
79:CJ:134:LEU:CD1	79:CJ:162:ALA:HB1	2.33	0.59
80:CH:5:LEU:HD23	80:CH:60:TRP:CZ3	2.36	0.59
80:CH:41:ILE:O	80:CH:42:ASN:OD1	2.19	0.59
81:CE:94:LYS:H	81:CE:95:PRO:CD	2.13	0.59
85:A5:1996:C:H42	85:A5:2000:G:H22	1.51	0.59
1:Az:56:PHE:HE2	1:Az:455:GLY:CA	1.83	0.59
1:Az:662:LEU:HG	1:Az:683:PHE:CE2	2.37	0.59
10:AN:84:LEU:HD11	10:AN:89:TYR:HB2	1.83	0.59
14:AT:77:LYS:HG2	14:AT:92:PHE:HZ	1.65	0.59
15:AB:129:THR:OG1	15:AB:133:TYR:HB2	2.03	0.59
16:AA:21:ALA:HB2	16:AA:173:LEU:HD11	0.61	0.59
18:AY:56:PHE:CD2	18:AY:86:GLU:CD	2.76	0.59
21:Ab:36:LYS:CG	21:Ab:78:SER:OG	2.46	0.59
23:AD:32:ASP:OD1	23:AD:57:ASN:HB2	2.03	0.59
25:Af:97:LYS:HE3	36:B2:1288:U:C4	2.37	0.59
27:AE:151:ASP:N	27:AE:151:ASP:OD2	2.29	0.59
28:AC:108:LYS:HE3	28:AC:110:MET:CB	2.30	0.59
31:AH:37:LYS:HZ3	31:AH:41:ARG:HG3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:58:LEU:HD21	34:AQ:111:ILE:HB	1.83	0.59
38:Cz:36:ILE:HD11	38:Cz:201:VAL:CG2	2.33	0.59
38:Cz:65:VAL:HG12	38:Cz:82:ILE:CD1	2.31	0.59
38:Cz:152:LYS:O	38:Cz:153:SER:HB3	2.01	0.59
39:Cq:25:PRO:CB	39:Cq:92:LYS:HG3	2.31	0.59
39:Cq:169:ALA:O	39:Cq:173:THR:HG23	2.03	0.59
39:Cq:253:VAL:HG21	39:Cq:263:GLU:HB3	1.85	0.59
41:CO:120:VAL:HG22	52:CS:166:ARG:O	2.03	0.59
41:CO:122:ALA:CB	52:CS:161:ARG:CG	2.80	0.59
47:CI:77:VAL:HG11	47:CI:82:ARG:HG3	1.84	0.59
47:CI:99:ILE:HD13	47:CI:123:GLN:NE2	2.14	0.59
47:CI:112:GLN:O	47:CI:113:THR:CB	2.49	0.59
50:CR:42:ARG:C	50:CR:45:ILE:HG22	2.27	0.59
50:CR:170:ARG:O	50:CR:174:GLU:N	2.34	0.59
51:CA:138:SER:OG	51:CA:147:ARG:HB2	2.02	0.59
51:CA:144:LYS:C	51:CA:145:LYS:HG3	2.17	0.59
52:CS:61:ILE:HG21	52:CS:64:CYS:SG	2.43	0.59
52:CS:81:TRP:O	52:CS:127:MET:HB3	2.02	0.59
52:CS:142:VAL:O	52:CS:145:PHE:HB2	2.02	0.59
54:CP:78:TRP:HA	54:CP:78:TRP:CE3	2.37	0.59
55:CU:125:GLU:OE2	55:CU:126:ASP:O	2.20	0.59
56:CX:128:ILE:HG21	73:Cl:10:LYS:HZ2	1.66	0.59
60:Cr:71:ARG:HB2	60:Cr:73:PRO:O	2.03	0.59
60:Cr:76:SER:CA	60:Cr:79:ARG:NH2	2.63	0.59
61:Ch:85:PRO:HB2	61:Ch:87:LYS:HE3	1.85	0.59
63:CB:32:PHE:HB2	63:CB:33:PRO:HD2	1.84	0.59
66:Cd:59:THR:HG21	66:Cd:90:ARG:CG	2.32	0.59
66:Cd:64:ILE:HD11	66:Cd:68:LEU:HD21	1.64	0.59
67:Ce:80:HIS:CB	67:Ce:84:GLU:OE2	2.50	0.59
74:CC:228:THR:C	74:CC:229:LEU:HD23	2.28	0.59
79:CJ:112:HIS:CE1	79:CJ:126:TYR:H	2.20	0.59
79:CJ:159:LYS:O	79:CJ:163:MET:HG2	2.03	0.59
81:CE:242:ILE:HB	85:A5:4939:C:O2	2.02	0.59
82:CG:208:ASN:ND2	82:CG:210:GLU:CD	2.60	0.59
1:Az:132:VAL:HG23	1:Az:133:SER:N	2.17	0.59
1:Az:449:ARG:CZ	1:Az:460:PRO:HB3	2.31	0.59
1:Az:675:ILE:HG22	1:Az:721:ILE:HD13	1.84	0.59
2:Ag:32:LEU:HD11	2:Ag:40:ILE:CG2	2.32	0.59
2:Ag:143:GLN:O	2:Ag:146:SER:HB3	2.02	0.59
9:Ad:5:GLN:O	9:Ad:7:TYR:O	2.21	0.59
11:AL:100:ASN:OD1	11:AL:100:ASN:N	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:111:VAL:HG23	11:AL:140:PHE:C	2.27	0.59
13:AP:74:GLU:O	13:AP:75:VAL:CB	2.50	0.59
14:AT:39:LEU:HD11	14:AT:56:ARG:HH21	1.68	0.59
15:AB:42:ARG:NH2	15:AB:232:HIS:HA	2.17	0.59
18:AY:9:THR:HG21	18:AY:48:TYR:CE2	2.38	0.59
18:AY:36:PRO:HD3	18:AY:39:GLU:OE1	1.98	0.59
18:AY:51:THR:CB	18:AY:52:PRO:HD3	2.17	0.59
20:Aa:28:ARG:NH1	20:Aa:29:CYS:O	2.35	0.59
23:AD:97:CYS:O	23:AD:100:ALA:N	2.36	0.59
27:AE:49:ARG:NH2	27:AE:50:ASN:ND2	2.51	0.59
27:AE:174:LYS:NZ	27:AE:176:ASP:OD2	2.33	0.59
28:AC:70:VAL:HA	28:AC:97:PHE:CZ	2.34	0.59
28:AC:251:LEU:HD23	28:AC:251:LEU:C	2.28	0.59
31:AH:154:ILE:CG2	31:AH:154:ILE:O	2.51	0.59
32:AW:88:LYS:HZ2	36:B2:420:G:H5'	1.68	0.59
33:AI:21:TYR:OH	36:B2:432:G:O3'	2.20	0.59
33:AI:145:ILE:HA	33:AI:148:LYS:CD	2.33	0.59
35:Ah:296:ILE:C	35:Ah:298:ASN:ND2	2.60	0.59
38:Cz:18:LEU:HD22	38:Cz:179:LEU:HB2	1.85	0.59
39:Cq:135:THR:CG2	39:Cq:152:ILE:CD1	2.81	0.59
39:Cq:199:TYR:CD1	39:Cq:204:LEU:CB	2.85	0.59
39:Cq:246:LYS:HA	39:Cq:249:LEU:HG	1.85	0.59
41:CO:177:LEU:C	44:CM:130:LEU:CD2	2.75	0.59
43:CV:9:SER:HG	43:CV:128:LEU:HD12	1.65	0.59
44:CM:5:ARG:CZ	44:CM:59:ASP:OD1	2.51	0.59
44:CM:13:ALA:HB1	44:CM:55:MET:HE3	1.83	0.59
44:CM:14:TYR:OH	44:CM:22:GLY:HA2	2.03	0.59
46:CN:6:TYR:CD1	70:CI:40:VAL:HG13	2.37	0.59
46:CN:56:LYS:CG	46:CN:59:TYR:CD2	2.85	0.59
47:CI:12:CYS:HB3	47:CI:57:TYR:CE2	2.36	0.59
47:CI:26:VAL:HG21	47:CI:96:VAL:HG21	1.85	0.59
48:CD:181:PRO:HG3	48:CD:198:HIS:CG	2.38	0.59
53:CT:144:ASN:C	53:CT:146:LYS:N	2.58	0.59
59:CZ:12:LEU:HD21	59:CZ:22:LYS:CE	2.28	0.59
60:Cr:71:ARG:HB2	60:Cr:73:PRO:CA	2.30	0.59
65:Cc:22:MET:CE	65:Cc:27:TYR:CD2	2.85	0.59
69:Cg:8:ARG:CG	69:Cg:34:TYR:CE2	2.85	0.59
69:Cg:42:PRO:HB3	69:Cg:53:LEU:HD13	1.83	0.59
69:Cg:43:LYS:HB2	69:Cg:51:GLY:C	2.27	0.59
70:CI:43:MET:HE2	82:CG:173:LEU:HD23	1.71	0.59
73:Cl:26:TRP:CE3	73:Cl:27:ILE:HD13	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:Cl:43:HIS:CD2	73:Cl:45:ARG:H	2.21	0.59
81:CE:27:VAL:HA	81:CE:28:LYS:CG	2.33	0.59
81:CE:162:VAL:HG13	81:CE:177:GLY:HA2	1.83	0.59
81:CE:179:LEU:HD13	81:CE:179:LEU:C	2.27	0.59
81:CE:181:LEU:CD1	81:CE:268:GLN:HA	2.32	0.59
82:CG:87:LEU:O	82:CG:92:ALA:HB2	2.03	0.59
82:CG:106:THR:O	82:CG:108:GLN:N	2.36	0.59
82:CG:153:GLN:O	82:CG:180:PRO:HG2	2.02	0.59
83:Cs:17:HIS:ND1	83:Cs:56:ILE:HD12	2.17	0.59
85:A5:979:C:H42	85:A5:1275:G:H1	1.50	0.59
85:A5:2253:A:H62	85:A5:2254:G:H21	1.49	0.59
85:A5:2506:G:H4'	85:A5:2507:A:OP1	2.02	0.59
85:A5:4302:U:H5	85:A5:4303:C:C5	2.20	0.59
1:Az:13:MET:HE1	1:Az:464:VAL:CB	2.32	0.59
1:Az:155:LEU:N	1:Az:205:ILE:HD11	2.17	0.59
1:Az:402:VAL:HG22	1:Az:403:PRO:N	2.16	0.59
1:Az:742:GLU:CB	1:Az:820:LEU:HD21	2.32	0.59
2:Ag:260:ASP:O	2:Ag:264:LYS:HA	2.02	0.59
2:Ag:289:LEU:N	2:Ag:289:LEU:HD23	2.17	0.59
3:AU:67:LYS:CE	3:AU:78:ASP:OD2	2.49	0.59
4:AK:65:ARG:CZ	9:Ad:25:SER:OG	2.46	0.59
8:AS:80:PRO:HG3	8:AS:82:TRP:CE2	2.38	0.59
12:AR:83:ASN:C	16:AA:201:LEU:CD1	2.68	0.59
12:AR:90:ALA:C	12:AR:91:LEU:HD12	2.26	0.59
15:AB:108:ASP:OD1	15:AB:109:LYS:N	2.36	0.59
16:AA:61:ALA:HB2	16:AA:161:ILE:HD11	1.83	0.59
18:AY:76:TYR:CB	18:AY:82:ALA:HB2	2.33	0.59
19:AZ:51:ASP:O	19:AZ:52:LYS:CB	2.49	0.59
23:AD:214:LYS:O	23:AD:215:ASP:CG	2.46	0.59
26:AJ:84:ILE:CG1	26:AJ:86:VAL:HG23	2.32	0.59
27:AE:1:MET:SD	36:B2:432:G:OP2	2.61	0.59
27:AE:86:PHE:CD2	27:AE:87:MET:HG2	2.38	0.59
27:AE:159:THR:HG21	27:AE:227:VAL:O	2.02	0.59
28:AC:277:HIS:CG	28:AC:278:THR:N	2.63	0.59
29:AG:36:VAL:CG1	29:AG:37:ALA:H	2.13	0.59
29:AG:67:VAL:O	29:AG:68:LEU:CB	2.50	0.59
30:AF:28:VAL:HG13	30:AF:110:GLN:NE2	2.16	0.59
30:AF:61:PHE:O	30:AF:63:LYS:N	2.35	0.59
30:AF:128:ILE:O	30:AF:134:VAL:HG13	2.02	0.59
38:Cz:1:MET:O	38:Cz:212:LYS:HB2	2.02	0.59
38:Cz:17:VAL:HG22	38:Cz:206:ILE:CG2	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:26:ARG:HB2	38:Cz:30:GLU:OE2	2.02	0.59
38:Cz:204:LEU:HD22	38:Cz:216:LEU:HG	1.84	0.59
44:CM:5:ARG:O	44:CM:6:PHE:CB	2.46	0.59
46:CN:44:ARG:CD	46:CN:119:TYR:HE1	1.96	0.59
47:CI:5:PRO:O	47:CI:6:ALA:C	2.44	0.59
51:CA:32:VAL:CG2	51:CA:163:ARG:CZ	2.38	0.59
51:CA:227:ARG:CG	51:CA:227:ARG:NH1	2.46	0.59
53:CT:39:ILE:CD1	53:CT:102:ARG:HD3	2.05	0.59
56:CX:76:ILE:CD1	56:CX:76:ILE:C	2.76	0.59
56:CX:133:GLU:OE1	56:CX:133:GLU:N	2.36	0.59
57:CY:67:ILE:O	57:CY:67:ILE:CG2	2.35	0.59
58:CW:14:TYR:CB	58:CW:15:PRO:CD	2.80	0.59
60:Cr:39:ARG:HA	60:Cr:44:ILE:HD11	1.84	0.59
60:Cr:56:ASP:N	60:Cr:56:ASP:OD1	2.30	0.59
61:Ch:81:LEU:HD22	87:A8:38:U:C6	2.36	0.59
63:CB:147:GLU:OE1	63:CB:147:GLU:N	2.34	0.59
63:CB:258:HIS:HA	63:CB:259:PRO:C	2.28	0.59
64:CF:185:ILE:O	64:CF:185:ILE:CG2	2.49	0.59
71:Cj:12:ARG:HB2	71:Cj:12:ARG:CZ	2.32	0.59
74:CC:259:LYS:O	74:CC:262:GLU:N	2.30	0.59
77:Cp:52:VAL:CG1	77:Cp:68:ALA:CB	2.80	0.59
81:CE:240:TYR:CE1	81:CE:243:THR:HG21	2.37	0.59
81:CE:284:HIS:CE1	81:CE:285:LYS:CD	2.84	0.59
82:CG:34:LYS:O	82:CG:34:LYS:HG2	2.02	0.59
82:CG:77:PRO:C	82:CG:81:ASN:ND2	2.61	0.59
82:CG:99:ALA:O	82:CG:136:LEU:HD11	2.02	0.59
82:CG:157:ILE:HG23	82:CG:167:VAL:CG1	2.33	0.59
84:Cu:16:SER:O	84:Cu:18:PRO:N	2.36	0.59
1:Az:340:MET:HA	1:Az:340:MET:CE	2.21	0.59
1:Az:662:LEU:CD2	1:Az:683:PHE:CG	2.84	0.59
1:Az:776:VAL:CG2	1:Az:777:ALA:H	2.02	0.59
2:Ag:34:ALA:HB1	2:Ag:66:VAL:HG12	1.85	0.59
2:Ag:125:ARG:HD2	12:AR:33:ARG:HH11	1.65	0.59
4:AK:40:VAL:CG2	4:AK:41:PRO:N	2.29	0.59
11:AL:118:ARG:CD	11:AL:119:ASP:N	2.66	0.59
14:AT:87:VAL:HG13	14:AT:88:MET:N	2.18	0.59
14:AT:94:ARG:CG	14:AT:94:ARG:HH11	2.14	0.59
15:AB:113:MET:CE	15:AB:209:ASP:CB	2.79	0.59
15:AB:144:LYS:O	15:AB:144:LYS:HG3	2.03	0.59
16:AA:111:GLN:OE1	28:AC:63:VAL:HB	2.02	0.59
18:AY:103:SER:O	18:AY:104:ARG:HB3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:170:THR:HG22	23:AD:171:ALA:N	2.18	0.59
24:Ae:12:VAL:HG12	24:Ae:16:THR:CG2	2.33	0.59
24:Ae:41:ARG:CA	24:Ae:45:VAL:HG21	2.33	0.59
28:AC:170:TRP:CE2	32:AW:97:ARG:HD2	2.37	0.59
29:AG:27:PHE:HZ	29:AG:41:LEU:HD13	1.68	0.59
29:AG:59:GLN:H	36:B2:157:U:H4'	1.67	0.59
30:AF:14:THR:HG23	30:AF:15:PRO:HD2	1.85	0.59
31:AH:83:LEU:HD13	31:AH:92:VAL:HG21	0.62	0.59
34:AQ:85:ARG:O	34:AQ:88:ILE:CG1	2.50	0.59
34:AQ:90:LYS:HD3	34:AQ:120:LEU:CA	2.33	0.59
38:Cz:24:LYS:HG3	38:Cz:30:GLU:CG	2.32	0.59
38:Cz:26:ARG:HG3	38:Cz:28:PHE:H	1.67	0.59
38:Cz:121:PRO:HD3	38:Cz:134:PHE:HE1	1.68	0.59
39:Cq:234:VAL:HG22	84:Cu:1:MET:CG	2.32	0.59
40:CK:107:ASP:CG	40:CK:143:VAL:HG11	2.27	0.59
42:CL:58:ILE:CG2	42:CL:70:VAL:HG13	2.33	0.59
42:CL:154:VAL:O	42:CL:154:VAL:HG22	2.03	0.59
46:CN:4:TYR:CG	46:CN:46:ASP:OD1	2.55	0.59
52:CS:174:THR:HG23	52:CS:176:PHE:H	1.67	0.59
53:CT:7:LYS:HZ3	53:CT:54:HIS:HA	1.67	0.59
53:CT:80:VAL:CG1	53:CT:81:LYS:N	2.66	0.59
54:CP:47:TYR:HE1	54:CP:56:GLN:OE1	1.84	0.59
54:CP:105:LYS:CD	54:CP:105:LYS:H	2.16	0.59
56:CX:131:ASP:OD1	56:CX:133:GLU:OE1	2.21	0.59
58:CW:34:ALA:CA	58:CW:37:GLU:CD	2.69	0.59
58:CW:35:LYS:HE2	58:CW:51:TRP:NE1	2.17	0.59
58:CW:94:ARG:O	58:CW:95:ASN:O	2.20	0.59
59:CZ:24:VAL:HG12	59:CZ:25:ILE:O	2.02	0.59
61:Ch:91:MET:HA	61:Ch:94:ARG:HH21	1.68	0.59
63:CB:49:TYR:C	63:CB:79:VAL:HG13	2.28	0.59
63:CB:163:ILE:HG23	63:CB:163:ILE:O	2.01	0.59
68:Cf:21:GLN:O	68:Cf:22:ARG:HD2	2.03	0.59
69:Cg:43:LYS:HB3	69:Cg:52:ARG:HG3	1.82	0.59
69:Cg:50:PRO:O	69:Cg:50:PRO:CG	2.30	0.59
72:Ck:17:ARG:CZ	72:Ck:38:CYS:SG	2.91	0.59
74:CC:212:ASN:O	74:CC:213:GLU:OE1	2.21	0.59
75:Cm:127:VAL:HG13	75:Cm:128:LYS:N	2.04	0.59
77:Cp:50:ARG:HD2	77:Cp:54:ILE:HD11	1.69	0.59
80:CH:26:ILE:HG13	80:CH:26:ILE:O	2.01	0.59
81:CE:264:ILE:HG21	81:CE:267:LEU:CB	2.32	0.59
82:CG:51:LEU:O	82:CG:52:THR:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Ct:11:TYR:CD2	84:Cv:12:LEU:HD13	2.26	0.59
85:A5:1445:U:H2'	85:A5:1446:C:H5''	1.83	0.59
1:Az:46:ILE:O	1:Az:46:ILE:CG2	2.51	0.59
1:Az:101:ASN:OD1	1:Az:469:ILE:CD1	2.51	0.59
1:Az:110:ASP:N	1:Az:110:ASP:OD1	2.35	0.59
1:Az:605:LYS:HB2	1:Az:705:HIS:HE1	1.68	0.59
1:Az:755:VAL:HG11	1:Az:808:ALA:CA	2.33	0.59
2:Ag:212:LYS:O	2:Ag:213:ASP:C	2.38	0.59
5:AO:47:LEU:CA	15:AB:67:PHE:HE1	2.16	0.59
6:AX:7:LEU:O	11:AL:101:ARG:CB	2.43	0.59
9:Ad:21:CYS:SG	9:Ad:23:VAL:HB	2.43	0.59
17:AV:20:SER:HA	32:AW:23:ARG:HH22	1.68	0.59
17:AV:40:ASP:HB2	17:AV:47:ASN:HD21	1.61	0.59
18:AY:5:VAL:O	18:AY:6:THR:OG1	2.19	0.59
22:Ac:63:ARG:NH1	30:AF:204:ARG:OXT	2.33	0.59
25:Af:144:CYS:CA	25:Af:147:THR:HG22	2.31	0.59
26:Aj:10:ARG:HH11	26:Aj:10:ARG:CG	2.15	0.59
28:AC:179:THR:HG23	28:AC:180:VAL:N	2.18	0.59
31:AH:6:ALA:HB3	31:AH:15:LYS:HE2	1.84	0.59
34:AQ:16:LYS:HE3	34:AQ:17:LYS:HD2	1.83	0.59
34:AQ:126:ARG:O	36:B2:1648:G:H5'	2.03	0.59
39:Cq:26:LYS:CE	39:Cq:94:ASP:HA	2.32	0.59
39:Cq:61:MET:HA	39:Cq:82:ILE:HD13	1.85	0.59
40:CK:81:ILE:HD11	40:CK:113:ALA:CB	2.31	0.59
40:CK:81:ILE:O	40:CK:85:LEU:HG	2.03	0.59
40:CK:97:ASN:N	40:CK:98:ILE:CG1	2.65	0.59
41:CO:120:VAL:C	41:CO:124:LEU:CD1	2.76	0.59
44:CM:5:ARG:CB	44:CM:11:ARG:NH2	2.61	0.59
44:CM:88:ALA:O	44:CM:93:LYS:HE3	2.02	0.59
44:CM:119:ARG:HG2	44:CM:120:ASN:N	2.17	0.59
46:CN:96:ARG:HG2	46:CN:100:SER:CB	2.33	0.59
47:CI:38:ARG:HH11	47:CI:83:ASP:HB3	1.68	0.59
49:CQ:39:THR:HG23	49:CQ:40:ASN:N	2.17	0.59
49:CQ:146:ARG:HH11	49:CQ:146:ARG:HG3	1.67	0.59
49:CQ:161:SER:OG	49:CQ:162:HIS:CG	2.56	0.59
51:CA:145:LYS:HB3	51:CA:157:VAL:CG1	2.33	0.59
52:CS:82:LEU:HD21	52:CS:124:ILE:HD13	1.85	0.59
53:CT:141:VAL:HG12	64:CF:81:PHE:H	1.66	0.59
53:CT:158:PHE:CG	53:CT:159:MET:N	2.70	0.59
54:CP:10:ASN:O	54:CP:12:THR:CG2	2.37	0.59
55:CU:60:VAL:O	55:CU:74:SER:HA	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:52:LEU:HD11	56:CX:53:ARG:C	2.27	0.59
59:CZ:68:ILE:CG2	59:CZ:119:GLU:HG3	2.30	0.59
60:Cr:46:ARG:HE	60:Cr:69:GLY:CA	2.13	0.59
62:Cb:25:ARG:HD2	62:Cb:25:ARG:N	2.18	0.59
63:CB:49:TYR:CD2	63:CB:171:LEU:HD12	2.38	0.59
63:CB:133:TYR:CE1	63:CB:136:LYS:CD	2.85	0.59
63:CB:234:ARG:NH1	63:CB:271:GLN:O	2.34	0.59
63:CB:305:THR:HG23	63:CB:308:ASP:H	1.67	0.59
65:Cc:21:VAL:HG11	65:Cc:96:ILE:HG23	1.85	0.59
67:Cc:30:LYS:O	67:Cc:30:LYS:CG	2.30	0.59
68:Cf:22:ARG:C	68:Cf:24:HIS:H	2.09	0.59
70:Ci:17:VAL:CG1	70:Ci:18:THR:N	2.39	0.59
74:CC:217:ILE:HG13	74:CC:221:PHE:CE1	2.37	0.59
78:Co:61:LYS:HB3	78:Co:61:LYS:HZ2	1.67	0.59
78:Co:66:ILE:CD1	78:Co:85:ILE:H	2.15	0.59
81:CE:85:LYS:CA	81:CE:92:VAL:HG13	2.32	0.59
85:A5:2287:G:H2'	85:A5:2288:G:O4'	2.03	0.59
85:A5:2464:C:H2'	85:A5:2465:C:H6	1.66	0.59
1:Az:829:SER:OG	1:Az:832:SER:N	2.36	0.59
2:Ag:83:TRP:C	2:Ag:85:GLY:N	2.60	0.59
4:AK:41:PRO:CD	4:AK:41:PRO:O	2.31	0.59
4:AK:89:ILE:O	4:AK:89:ILE:HD13	2.03	0.59
4:AK:90:VAL:CG1	35:Ah:285:PRO:HA	2.33	0.59
5:AO:34:PHE:CE1	5:AO:99:ALA:C	2.81	0.59
7:AM:45:ARG:H	7:AM:45:ARG:NE	2.00	0.59
7:AM:76:LEU:HD22	7:AM:77:ILE:H	1.67	0.59
11:AL:17:PHE:HZ	11:AL:19:ASN:OD1	1.86	0.59
13:AP:56:LEU:CD1	13:AP:80:LEU:CD1	2.79	0.59
17:AV:55:ILE:CG2	17:AV:60:ARG:HG3	2.32	0.59
17:AV:55:ILE:CG2	17:AV:60:ARG:CG	2.80	0.59
25:Af:102:VAL:O	25:Af:104:LYS:N	2.35	0.59
27:AE:98:ASN:HD21	27:AE:119:ALA:HA	1.68	0.59
28:AC:251:LEU:HD23	28:AC:252:THR:N	2.17	0.59
29:AG:177:GLN:O	29:AG:178:ARG:HB2	2.03	0.59
30:AF:110:GLN:C	30:AF:113:VAL:HG12	2.28	0.59
32:AW:41:MET:HG2	32:AW:129:PHE:CD2	2.36	0.59
34:AQ:118:THR:O	34:AQ:120:LEU:N	2.36	0.59
35:Ah:148:GLY:O	35:Ah:149:GLY:C	2.46	0.59
35:Ah:153:VAL:HG12	35:Ah:154:ASP:N	2.17	0.59
41:CO:108:ILE:HG22	41:CO:160:ARG:CD	2.31	0.59
42:CL:40:GLN:O	42:CL:44:ARG:HG3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:65:ARG:CZ	45:Ca:66:ASN:OD1	2.50	0.59
42:CL:182:LEU:CD1	45:Ca:129:PHE:CD2	2.81	0.59
43:CV:62:MET:CE	43:CV:76:VAL:HG12	2.31	0.59
44:CM:25:VAL:HG12	44:CM:26:ALA:N	2.17	0.59
44:CM:63:LYS:CE	44:CM:64:PHE:HA	2.30	0.59
45:Ca:65:ARG:O	45:Ca:66:ASN:CG	2.45	0.59
47:CI:76:MET:CE	47:CI:148:VAL:CA	2.61	0.59
48:CD:49:TYR:HA	48:CD:66:TYR:HB3	1.84	0.59
49:CQ:24:TYR:CB	74:CC:283:LYS:CG	2.81	0.59
51:CA:43:GLY:HA3	51:CA:63:PHE:CE1	2.37	0.59
51:CA:242:ARG:HH22	51:CA:247:ARG:CZ	2.09	0.59
53:CT:11:THR:HG21	53:CT:15:PHE:CE2	2.35	0.59
53:CT:25:VAL:HG12	53:CT:26:PRO:HD2	1.84	0.59
54:CP:24:VAL:HG12	54:CP:90:PHE:HE2	1.56	0.59
55:CU:54:GLY:O	55:CU:55:ASN:CB	2.48	0.59
56:CX:38:LYS:HG2	56:CX:39:LYS:O	2.02	0.59
57:CY:22:PRO:HG3	57:CY:25:ILE:HD12	1.82	0.59
57:CY:42:TYR:CE1	57:CY:119:LEU:HD22	2.36	0.59
59:CZ:16:GLY:O	59:CZ:18:TYR:N	2.35	0.59
63:CB:112:ASP:O	63:CB:114:CYS:C	2.46	0.59
65:Cc:59:GLU:CD	69:Cg:92:LYS:HD2	2.28	0.59
67:Ce:3:ALA:O	67:Ce:5:ARG:N	2.36	0.59
67:Ce:21:ILE:H	67:Ce:21:ILE:HD12	1.64	0.59
67:Ce:80:HIS:HB2	67:Ce:84:GLU:OE2	2.03	0.59
69:Cg:53:LEU:N	69:Cg:53:LEU:CD1	2.65	0.59
74:CC:341:LEU:HD11	81:CE:52:ARG:HH22	0.77	0.59
80:CH:51:LYS:O	80:CH:52:LYS:HD2	2.03	0.59
81:CE:53:GLY:HA2	81:CE:63:TYR:CD2	2.38	0.59
82:CG:146:LEU:CD1	82:CG:147:VAL:N	2.57	0.59
84:Cv:19:SER:C	84:Cv:43:ILE:HD11	2.27	0.59
85:A5:2902:G:H22	85:A5:3597:G:H1	1.51	0.59
86:A7:49:A:O2'	86:A7:50:A:H8	1.85	0.59
1:Az:372:LEU:HD13	1:Az:417:PHE:CE1	2.38	0.58
1:Az:556:ILE:O	1:Az:560:ASP:OD1	2.20	0.58
1:Az:605:LYS:HD2	1:Az:705:HIS:CE1	2.38	0.58
2:Ag:25:PRO:O	2:Ag:26:GLN:C	2.42	0.58
3:AU:67:LYS:O	3:AU:68:THR:C	2.33	0.58
3:AU:86:LYS:C	3:AU:87:ARG:HG2	2.28	0.58
7:AM:42:LEU:CD2	7:AM:110:VAL:HG21	2.32	0.58
7:AM:79:VAL:CG1	7:AM:80:ASP:N	2.66	0.58
8:AS:120:HIS:CD2	8:AS:120:HIS:C	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:22:ARG:HG3	33:AI:154:LYS:O	2.03	0.58
11:AL:86:ILE:HG13	11:AL:111:VAL:HG13	1.84	0.58
12:AR:14:ARG:O	12:AR:18:GLU:HG3	2.03	0.58
13:AP:5:GLU:HG2	13:AP:9:LYS:HE2	1.85	0.58
13:AP:49:LEU:N	13:AP:51:ARG:HG3	2.18	0.58
14:AT:40:ALA:N	14:AT:43:LYS:HG3	2.18	0.58
14:AT:87:VAL:CG2	36:B2:1665:G:C2	2.86	0.58
15:AB:133:TYR:CZ	15:AB:181:LEU:HD12	2.38	0.58
16:AA:2:SER:OG	16:AA:5:LEU:O	2.16	0.58
16:AA:143:PRO:CG	17:AV:34:MET:SD	2.91	0.58
20:Aa:107:ALA:CB	20:Aa:108:PRO:CD	2.69	0.58
21:Ab:16:LYS:HD3	21:Ab:16:LYS:H	1.64	0.58
23:AD:98:ALA:N	23:AD:188:ILE:HD12	2.17	0.58
26:AJ:50:LEU:CD1	26:AJ:102:ILE:CD1	2.72	0.58
26:AJ:164:PRO:C	26:AJ:165:TYR:HD1	2.10	0.58
27:AE:86:PHE:HE1	27:AE:182:MET:SD	2.26	0.58
28:AC:75:ILE:C	28:AC:97:PHE:HE1	2.09	0.58
28:AC:113:GLN:HB3	28:AC:122:THR:HA	1.85	0.58
29:AG:188:LYS:HA	29:AG:191:ARG:CG	2.33	0.58
30:AF:32:ASP:HB2	30:AF:117:ILE:CG2	2.33	0.58
30:AF:53:ALA:C	34:AQ:125:ARG:HH22	2.08	0.58
30:AF:56:TYR:CE1	30:AF:66:CYS:HB2	2.38	0.58
31:AH:43:LEU:HD21	31:AH:71:SER:OG	2.03	0.58
31:AH:118:ARG:C	31:AH:120:ARG:H	2.11	0.58
31:AH:143:ARG:NE	32:AW:53:ILE:CG2	2.62	0.58
33:AI:76:THR:CG2	33:AI:105:ASP:HB2	2.33	0.58
34:AQ:63:PHE:CD1	34:AQ:68:ILE:HD11	2.38	0.58
35:Ah:296:ILE:O	35:Ah:297:GLN:C	2.46	0.58
38:Cz:165:LEU:CD2	38:Cz:190:LEU:HD22	2.33	0.58
39:Cq:24:TYR:HB3	39:Cq:25:PRO:HD3	0.68	0.58
39:Cq:241:ILE:C	39:Cq:245:TYR:HD2	2.08	0.58
41:CO:16:LEU:HD11	41:CO:43:ILE:CD1	2.29	0.58
41:CO:195:VAL:HG11	44:CM:119:ARG:N	2.17	0.58
42:CL:80:GLU:HG3	42:CL:104:ASN:ND2	2.15	0.58
46:CN:65:ARG:HG2	46:CN:129:PHE:HD1	1.66	0.58
48:CD:246:ALA:CB	48:CD:249:GLU:OE2	2.51	0.58
49:CQ:151:HIS:CE1	49:CQ:164:LYS:CE	2.86	0.58
51:CA:202:VAL:CG1	51:CA:217:GLN:HB3	2.32	0.58
51:CA:222:PRO:HG2	85:A5:3705:G:H1'	1.83	0.58
53:CT:134:PRO:HB3	53:CT:135:PRO:HD3	1.83	0.58
54:CP:88:ALA:HA	54:CP:91:LEU:CD2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:86:GLN:HB2	57:CY:95:VAL:C	2.27	0.58
60:Cr:16:PHE:CE2	60:Cr:28:GLU:OE2	2.56	0.58
62:Cb:51:LYS:CA	62:Cb:51:LYS:CE	2.74	0.58
63:CB:91:GLY:HA3	63:CB:153:MET:HG3	1.84	0.58
63:CB:119:TYR:CZ	63:CB:125:SER:CB	2.86	0.58
63:CB:285:TYR:HE1	63:CB:363:ILE:HD12	1.50	0.58
72:Ck:29:LYS:HD3	72:Ck:29:LYS:O	2.02	0.58
73:Cl:2:SER:C	73:Cl:4:HIS:N	2.61	0.58
74:CC:305:PRO:HB2	74:CC:307:LYS:HA	1.85	0.58
78:Co:83:LEU:C	78:Co:83:LEU:HD22	2.28	0.58
80:CH:171:ASP:CG	80:CH:173:ARG:HD3	2.26	0.58
81:CE:153:LEU:O	81:CE:158:ARG:CD	2.51	0.58
81:CE:153:LEU:O	81:CE:158:ARG:HB2	2.01	0.58
83:Ct:16:LEU:HG	83:Ct:31:LEU:CD1	2.33	0.58
85:A5:1275:G:H2'	85:A5:1276:C:C6	2.38	0.58
85:A5:1755:C:C3'	85:A5:1756:U:H5''	2.33	0.58
2:Ag:46:THR:OG1	2:Ag:48:ASP:HB3	2.00	0.58
2:Ag:64:HIS:HB3	2:Ag:84:ASP:N	2.18	0.58
2:Ag:277:THR:HG23	2:Ag:278:SER:H	1.67	0.58
10:AN:67:THR:O	10:AN:69:ASN:N	2.36	0.58
13:AP:59:ARG:HD3	13:AP:76:VAL:CG1	2.27	0.58
13:AP:106:GLU:O	13:AP:111:MET:HE1	2.03	0.58
16:AA:118:GLU:CD	28:AC:65:LYS:NZ	2.61	0.58
24:Ae:6:LEU:O	24:Ae:7:ALA:C	2.45	0.58
28:AC:200:ARG:HA	28:AC:221:ASP:OD2	2.02	0.58
29:AG:63:MET:CE	29:AG:106:LEU:HD21	2.32	0.58
29:AG:137:ARG:HG3	29:AG:140:ARG:HB3	1.84	0.58
29:AG:227:GLN:HA	29:AG:230:LYS:CD	2.34	0.58
30:AF:44:LYS:HB3	30:AF:45:TYR:CD1	2.32	0.58
30:AF:51:HIS:CD2	30:AF:86:LYS:HD3	2.38	0.58
31:AH:80:VAL:O	31:AH:83:LEU:HG	2.03	0.58
31:AH:168:HIS:CE1	31:AH:169:LYS:HG2	2.37	0.58
31:AH:190:PRO:CB	31:AH:191:GLU:HG2	2.33	0.58
32:AW:82:GLN:O	32:AW:83:LEU:HB3	2.02	0.58
32:AW:96:SER:OG	32:AW:99:PHE:CE2	2.56	0.58
38:Cz:156:LYS:HD2	38:Cz:156:LYS:N	2.16	0.58
39:Cq:26:LYS:CA	39:Cq:194:ASP:OD1	2.51	0.58
39:Cq:26:LYS:HA	39:Cq:194:ASP:HA	1.85	0.58
39:Cq:75:LEU:HD23	39:Cq:78:LEU:HD11	1.84	0.58
39:Cq:178:LEU:O	39:Cq:179:ASN:CB	2.44	0.58
39:Cq:253:VAL:HG23	39:Cq:263:GLU:O	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:31:LYS:O	40:CK:34:PRO:HD2	1.93	0.58
41:CO:54:TYR:HE2	41:CO:145:VAL:HG11	0.81	0.58
41:CO:77:SER:HB2	41:CO:104:VAL:HG12	1.85	0.58
43:CV:61:VAL:HG12	43:CV:62:MET:N	2.17	0.58
44:CM:25:VAL:HG22	44:CM:40:GLY:HA3	1.85	0.58
44:CM:86:TRP:CE3	44:CM:89:THR:HG21	2.37	0.58
48:CD:66:TYR:OH	48:CD:68:ARG:NH2	2.35	0.58
49:CQ:70:MET:CE	49:CQ:98:LEU:HD21	2.32	0.58
49:CQ:161:SER:HB2	49:CQ:162:HIS:HB3	1.84	0.58
51:CA:114:CYS:SG	51:CA:168:VAL:HA	2.43	0.58
51:CA:180:LEU:CD1	77:Cp:18:TYR:CG	2.85	0.58
51:CA:253:GLN:OE1	51:CA:255:LYS:HB2	2.02	0.58
55:CU:21:PHE:CE1	55:CU:80:LYS:CD	2.81	0.58
61:Ch:28:LEU:O	61:Ch:32:ARG:CG	2.51	0.58
63:CB:39:LYS:O	63:CB:40:PRO:O	2.20	0.58
63:CB:81:THR:O	63:CB:81:THR:HG22	2.03	0.58
66:Cd:83:ARG:O	66:Cd:114:PHE:CD2	2.55	0.58
67:Ce:50:LYS:HZ3	68:Cf:20:ASN:CG	2.11	0.58
69:Cg:63:VAL:HG12	69:Cg:67:LEU:CD1	2.33	0.58
70:Ci:64:SER:O	70:Ci:65:LYS:CB	2.50	0.58
74:CC:39:PHE:CD1	74:CC:39:PHE:O	2.55	0.58
74:CC:109:ARG:HH11	74:CC:109:ARG:CB	2.14	0.58
78:Co:24:THR:O	78:Co:69:ARG:HB3	2.03	0.58
79:CJ:12:MET:O	79:CJ:14:GLU:HG2	2.03	0.58
80:CH:43:VAL:CG1	80:CH:73:ILE:CD1	2.81	0.58
81:CE:139:LYS:HD3	81:CE:140:LEU:N	2.18	0.58
81:CE:242:ILE:HD12	85:A5:4939:C:C1'	2.33	0.58
85:A5:2551:A:O2'	85:A5:2552:G:OP1	2.15	0.58
87:A8:108:A:C2	87:A8:112:G:C5	2.90	0.58
1:Az:120:ARG:HA	1:Az:149:GLU:OE1	2.03	0.58
1:Az:177:THR:O	1:Az:181:ILE:HG13	2.03	0.58
1:Az:401:MET:HB2	1:Az:529:LYS:O	2.03	0.58
1:Az:578:SER:O	1:Az:579:TYR:CD2	2.56	0.58
1:Az:693:CYS:N	1:Az:835:VAL:HG13	2.18	0.58
2:Ag:57:ARG:HH21	34:AQ:98:LYS:CA	2.17	0.58
6:AX:95:GLU:OE1	6:AX:140:ARG:NH2	2.35	0.58
11:AL:55:TYR:CD1	11:AL:115:PRO:HG2	2.38	0.58
13:AP:49:LEU:HD13	13:AP:51:ARG:CZ	2.32	0.58
13:AP:53:GLN:HG2	13:AP:56:LEU:HD12	1.85	0.58
14:AT:31:PRO:HG2	14:AT:102:ARG:CG	2.33	0.58
17:AV:9:VAL:HG11	28:AC:176:LYS:HD3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AV:11:LEU:HD11	17:AV:12:TYR:HE2	1.62	0.58
17:AV:53:TYR:OH	17:AV:76:ASP:OD2	2.20	0.58
18:AY:98:GLU:O	18:AY:99:LYS:HB3	2.03	0.58
21:Ab:81:ARG:CB	21:Ab:82:LYS:HA	2.32	0.58
26:Aj:120:ALA:HA	26:Aj:125:HIS:HD2	1.69	0.58
27:AE:62:LYS:CD	27:AE:80:ILE:CG1	2.81	0.58
27:AE:62:LYS:HD2	27:AE:80:ILE:HG13	1.83	0.58
27:AE:166:THR:HB	27:AE:168:LYS:NZ	2.17	0.58
29:AG:176:ILE:HG21	29:AG:179:LEU:CG	2.32	0.58
30:AF:167:LYS:CD	30:AF:171:GLU:HG2	2.20	0.58
32:AW:37:PHE:CE1	32:AW:103:VAL:HG11	2.37	0.58
35:Ah:152:SER:CB	35:Ah:155:ARG:HD3	2.33	0.58
39:Cq:130:LEU:HD21	39:Cq:133:GLU:OE1	2.00	0.58
39:Cq:214:ARG:CB	83:Cs:10:ILE:HD13	2.29	0.58
39:Cq:221:ASN:O	39:Cq:225:VAL:HG23	2.03	0.58
40:CK:88:PRO:HB2	40:CK:89:PRO:HB3	1.85	0.58
42:CL:65:ARG:NH2	45:Ca:66:ASN:CG	2.61	0.58
45:Ca:42:ARG:HH21	49:CQ:178:ARG:NH2	1.84	0.58
46:CN:185:GLY:HA3	46:CN:194:ARG:NH1	2.18	0.58
47:CI:64:ALA:C	47:CI:159:PHE:HE1	2.10	0.58
47:CI:105:CYS:C	47:CI:108:ALA:HB3	2.25	0.58
50:CR:10:LEU:CB	50:CR:41:ILE:HD11	2.31	0.58
50:CR:17:CYS:SG	50:CR:52:ARG:CZ	2.91	0.58
51:CA:52:PRO:HD2	51:CA:52:PRO:O	2.02	0.58
52:CS:170:LYS:C	52:CS:172:PRO:CA	2.56	0.58
53:CT:18:PRO:O	53:CT:21:LYS:CB	2.39	0.58
56:CX:81:LEU:CD1	56:CX:99:ILE:HG13	2.33	0.58
58:CW:74:ARG:O	58:CW:75:ALA:HB3	2.03	0.58
58:CW:106:GLU:HG3	58:CW:110:ARG:HH12	0.81	0.58
60:Cr:94:ARG:HD2	60:Cr:111:ILE:HG23	1.85	0.58
60:Cr:115:SER:OG	81:CE:116:TYR:N	2.37	0.58
63:CB:142:GLY:C	63:CB:147:GLU:HB2	2.28	0.58
65:Cc:21:VAL:HG13	65:Cc:99:PRO:CB	2.28	0.58
67:Ce:72:SER:CB	67:Ce:74:PHE:CE2	2.84	0.58
68:Cf:33:VAL:CG2	68:Cf:82:GLY:HA3	2.33	0.58
69:Cg:3:GLN:CG	69:Cg:29:ARG:NH2	2.66	0.58
69:Cg:45:ALA:HB1	69:Cg:47:GLY:H	1.67	0.58
74:CC:346:ASN:HB3	74:CC:350:ARG:HH11	1.68	0.58
80:CH:183:GLU:OE1	80:CH:184:LYS:C	2.46	0.58
81:CE:54:ILE:N	81:CE:63:TYR:HD2	2.02	0.58
82:CG:34:LYS:O	82:CG:34:LYS:CD	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:194:VAL:O	82:CG:194:VAL:HG12	2.01	0.58
83:Cs:41:PRO:CA	83:Cs:44:PRO:HG3	2.32	0.58
84:Cv:20:ALA:N	84:Cv:43:ILE:CD1	2.66	0.58
84:Cv:24:LYS:HG2	84:Cv:39:LEU:HD13	1.84	0.58
1:Az:62:ASP:HA	1:Az:65:GLU:HB3	1.85	0.58
1:Az:330:LYS:HB2	1:Az:330:LYS:HZ3	1.67	0.58
1:Az:524:LEU:CD1	1:Az:536:CYS:CB	2.75	0.58
1:Az:574:ASP:OD2	1:Az:576:VAL:HG22	2.03	0.58
1:Az:727:ARG:HG3	1:Az:727:ARG:HH11	1.69	0.58
2:Ag:105:THR:OG1	2:Ag:126:ASP:HB3	2.02	0.58
2:Ag:194:TYR:CE2	2:Ag:212:LYS:CG	2.86	0.58
4:AK:27:VAL:HG11	36:B2:1274:G:N7	2.18	0.58
4:AK:95:ARG:HG3	23:AD:67:ARG:NH1	2.17	0.58
6:AX:22:TRP:O	6:AX:23:HIS:O	2.20	0.58
6:AX:128:VAL:CG1	6:AX:133:LEU:HD21	2.32	0.58
8:AS:15:VAL:CG1	8:AS:68:ILE:HD11	2.34	0.58
14:AT:125:PRO:HB3	36:B2:1416:C:H5''	1.85	0.58
17:AV:50:PHE:HZ	28:AC:267:GLN:HE22	1.49	0.58
18:AY:56:PHE:CG	18:AY:86:GLU:OE2	2.56	0.58
21:Ab:25:VAL:HG13	32:AW:55:ASP:HA	1.83	0.58
26:AJ:65:GLU:O	26:AJ:66:LYS:CB	2.51	0.58
26:AJ:174:LYS:CG	36:B2:560:A:H5'	2.34	0.58
28:AC:180:VAL:CG1	28:AC:181:PRO:N	2.66	0.58
29:AG:25:ARG:O	29:AG:26:THR:C	2.45	0.58
29:AG:176:ILE:CG2	29:AG:179:LEU:HB2	2.32	0.58
30:AF:158:ALA:HA	30:AF:172:CYS:SG	2.43	0.58
31:AH:144:ILE:O	32:AW:51:GLU:CA	2.47	0.58
34:AQ:47:LEU:CB	34:AQ:81:ILE:HD13	2.34	0.58
34:AQ:92:LEU:O	34:AQ:96:TYR:CD2	2.56	0.58
36:B2:589:G:N3	36:B2:591:U:C5	2.71	0.58
38:Cz:143:ASN:HA	38:Cz:146:ALA:CA	2.34	0.58
40:CK:102:GLY:C	40:CK:140:GLY:CA	2.76	0.58
41:CO:54:TYR:OH	41:CO:74:ARG:HD2	2.03	0.58
42:CL:174:LYS:CE	45:Ca:141:GLY:HA2	2.33	0.58
43:CV:89:ARG:HD2	43:CV:95:PHE:CZ	2.38	0.58
44:CM:33:GLN:NE2	80:CH:61:TRP:NE1	2.51	0.58
51:CA:23:ARG:HA	51:CA:52:PRO:HD3	1.85	0.58
51:CA:126:LEU:CD1	51:CA:150:LEU:HD21	2.26	0.58
52:CS:134:ALA:C	52:CS:136:LYS:H	2.09	0.58
54:CP:4:TYR:OH	54:CP:18:ARG:HB3	2.03	0.58
56:CX:57:GLN:O	56:CX:58:PRO:CB	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:89:LYS:CE	56:CX:137:TYR:HD1	2.14	0.58
57:CY:5:PRO:HD2	57:CY:6:PHE:N	2.19	0.58
60:Cr:78:VAL:HG21	60:Cr:81:THR:O	1.99	0.58
63:CB:50:LYS:HE2	63:CB:52:GLY:N	2.19	0.58
63:CB:58:ARG:HD3	63:CB:363:ILE:HG21	1.84	0.58
63:CB:115:LYS:CE	63:CB:129:ALA:CB	2.81	0.58
66:Cd:79:ASN:HD22	85:A5:4653:C:H5''	1.67	0.58
69:Cg:53:LEU:H	69:Cg:53:LEU:CD1	2.17	0.58
78:Co:33:LEU:C	78:Co:34:TYR:CG	2.78	0.58
79:CJ:13:ARG:HD3	79:CJ:136:ARG:NH1	2.18	0.58
79:CJ:164:ARG:O	79:CJ:168:GLN:HG3	2.03	0.58
81:CE:232:ILE:O	81:CE:234:ASP:N	2.37	0.58
83:Cs:15:ILE:HG21	84:Cu:30:VAL:HG21	1.85	0.58
85:A5:1242:G:C2'	85:A5:1242:G:N9	2.61	0.58
85:A5:1756:U:O4	85:A5:1775:A:C6	2.57	0.58
1:Az:541:SER:O	1:Az:543:GLU:CB	2.49	0.58
2:Ag:70:VAL:HG12	2:Ag:79:LEU:HB2	1.85	0.58
3:AU:18:HIS:HE1	3:AU:98:VAL:HG22	1.63	0.58
3:AU:108:PRO:O	3:AU:108:PRO:HD2	2.00	0.58
5:AO:98:ARG:HG3	5:AO:133:THR:HG22	1.85	0.58
5:AO:128:ARG:NH1	15:AB:70:SER:HB3	2.19	0.58
5:AO:129:ILE:CG2	20:Aa:44:ILE:HG12	2.32	0.58
10:AN:23:PRO:O	10:AN:24:THR:HB	2.02	0.58
10:AN:46:THR:HG1	10:AN:49:GLN:HG2	1.62	0.58
10:AN:55:ARG:HH21	21:Ab:51:GLN:NE2	1.92	0.58
13:AP:39:ALA:CA	13:AP:42:ARG:NE	2.57	0.58
16:AA:125:THR:O	16:AA:147:LEU:HB2	1.99	0.58
16:AA:183:LEU:CB	16:AA:189:ILE:CD1	2.81	0.58
19:AZ:94:LYS:CE	19:AZ:95:GLY:H	2.16	0.58
23:AD:108:LYS:CA	23:AD:113:LEU:HD22	2.33	0.58
26:AJ:134:HIS:CE1	26:AJ:163:SER:HB3	2.34	0.58
27:AE:150:PRO:C	27:AE:151:ASP:OD2	2.46	0.58
30:AF:25:THR:CG2	30:AF:41:VAL:HG22	2.32	0.58
31:AH:50:GLU:CD	31:AH:58:LYS:HD3	2.29	0.58
34:AQ:42:ILE:CG1	34:AQ:51:LEU:CD2	2.79	0.58
36:B2:556:U:H2'	36:B2:557:U:H5''	1.85	0.58
38:Cz:26:ARG:HD3	38:Cz:210:MET:HG3	1.82	0.58
38:Cz:76:GLU:HG2	38:Cz:144:MET:HB2	1.86	0.58
38:Cz:217:TYR:OXT	38:Cz:217:TYR:CG	2.54	0.58
39:Cq:80:PRO:CA	39:Cq:81:HIS:ND1	2.66	0.58
40:CK:75:PRO:HD2	40:CK:75:PRO:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:118:MET:CB	52:CS:167:PHE:HB2	2.31	0.58
41:CO:188:LYS:CA	41:CO:188:LYS:CE	2.30	0.58
42:CL:26:PHE:CE1	74:CC:51:PRO:HG3	2.39	0.58
49:CQ:15:ARG:O	49:CQ:15:ARG:HG2	1.89	0.58
49:CQ:34:PHE:HB3	74:CC:293:LEU:HD21	1.86	0.58
49:CQ:179:GLY:HA2	49:CQ:186:TYR:CD1	2.38	0.58
51:CA:209:HIS:CE1	51:CA:211:PHE:CD1	2.87	0.58
52:CS:15:ARG:NH2	52:CS:25:PRO:HD2	2.18	0.58
52:CS:45:TRP:CH2	52:CS:55:LYS:O	2.57	0.58
52:CS:95:ARG:HD3	52:CS:97:TYR:HE1	1.68	0.58
54:CP:41:ILE:HD11	54:CP:150:LEU:HD22	1.85	0.58
57:CY:21:ALA:HB3	57:CY:26:ARG:HG2	1.85	0.58
58:CW:23:ARG:HH12	58:CW:29:PHE:HE2	0.69	0.58
58:CW:110:ARG:HH11	58:CW:110:ARG:HG2	1.68	0.58
59:CZ:42:LEU:HD21	59:CZ:96:VAL:HG12	1.65	0.58
59:CZ:84:ARG:HG3	65:Cc:62:TYR:HH	1.65	0.58
61:Ch:5:LYS:CA	61:Ch:56:ARG:NH2	2.65	0.58
63:CB:77:THR:OG1	63:CB:78:ILE:N	2.29	0.58
64:CF:159:TYR:CE2	64:CF:168:ALA:HB2	2.38	0.58
65:Cc:99:PRO:O	65:Cc:105:ILE:HD11	2.03	0.58
66:Cd:43:PRO:CD	66:Cd:44:ARG:N	2.64	0.58
67:Ce:4:LEU:HD12	67:Ce:4:LEU:N	2.19	0.58
72:Ck:44:THR:OG1	85:A5:2692:U:H4'	2.04	0.58
73:Cl:3:SER:H	73:Cl:5:LYS:HE3	1.67	0.58
74:CC:228:THR:CG2	74:CC:248:ARG:HH22	2.17	0.58
80:CH:90:TYR:HE1	80:CH:184:LYS:HE2	1.68	0.58
81:CE:68:MET:HA	81:CE:71:ARG:CD	2.19	0.58
81:CE:279:ASN:OD1	85:A5:4753:U:OP1	2.20	0.58
82:CG:63:LEU:HB3	82:CG:67:ARG:NH1	2.16	0.58
82:CG:230:TYR:CZ	82:CG:231:ASP:OD1	2.56	0.58
83:Cs:11:TYR:HE2	84:Cu:12:LEU:CD1	1.98	0.58
83:Cs:16:LEU:CG	83:Cs:31:LEU:CD1	2.81	0.58
85:A5:1359:G:O4'	85:A5:1359:G:N9	2.34	0.58
85:A5:1471:U:H3	85:A5:1493:G:H22	1.51	0.58
87:A8:114:G:H1	87:A8:136:U:H3	1.50	0.58
1:Az:449:ARG:NH2	1:Az:460:PRO:HB2	2.18	0.58
1:Az:672:LEU:O	1:Az:675:ILE:HG12	2.04	0.58
1:Az:829:SER:CB	1:Az:832:SER:CB	2.82	0.58
2:Ag:131:LEU:HD23	2:Ag:132:TRP:N	2.18	0.58
4:AK:5:LYS:O	4:AK:5:LYS:CG	2.31	0.58
4:AK:51:SER:HB2	36:B2:1277:C:H5'	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:95:GLU:CB	6:AX:140:ARG:HH22	2.14	0.58
9:Ad:46:TYR:HD2	9:Ad:46:TYR:N	2.01	0.58
10:AN:139:TRP:CE3	10:AN:140:LYS:C	2.81	0.58
12:AR:98:VAL:O	12:AR:100:PRO:HD2	2.04	0.58
13:AP:127:LYS:HE3	13:AP:128:HIS:CA	2.34	0.58
15:AB:160:GLN:HE22	15:AB:205:TYR:HE1	1.49	0.58
16:AA:5:LEU:HD13	16:AA:5:LEU:C	2.27	0.58
16:AA:106:GLY:HA3	16:AA:113:GLN:HE22	1.67	0.58
16:AA:127:PRO:HG2	16:AA:153:PRO:CD	2.27	0.58
16:AA:159:ILE:O	16:AA:159:ILE:HG23	2.04	0.58
18:AY:50:THR:OG1	18:AY:55:ILE:HD11	2.03	0.58
20:Aa:21:ILE:CG2	20:Aa:22:ARG:N	2.67	0.58
22:Ac:49:PRO:HD2	30:AF:145:ARG:CD	2.24	0.58
22:Ac:49:PRO:CG	30:AF:144:LEU:HD23	2.33	0.58
24:Ae:31:ARG:HB2	26:AJ:38:ARG:HG3	1.73	0.58
25:Af:87:THR:OG1	36:B2:1507:G:N2	2.37	0.58
26:AJ:110:LEU:HB3	26:AJ:130:ILE:CD1	2.33	0.58
28:AC:70:VAL:CB	28:AC:97:PHE:CZ	2.85	0.58
28:AC:108:LYS:HE3	28:AC:110:MET:HG2	1.86	0.58
28:AC:180:VAL:HG12	28:AC:181:PRO:CD	2.31	0.58
28:AC:258:GLU:O	28:AC:259:THR:CB	2.48	0.58
29:AG:1:MET:SD	29:AG:106:LEU:O	2.60	0.58
29:AG:3:LEU:CD1	29:AG:41:LEU:HD11	2.33	0.58
29:AG:64:LYS:HG3	29:AG:67:VAL:HG11	1.84	0.58
29:AG:185:LEU:HB3	29:AG:189:ARG:HH12	1.68	0.58
31:AH:15:LYS:HB3	31:AH:16:PRO:HD3	1.82	0.58
33:AI:142:SER:HB3	33:AI:143:LYS:CE	2.34	0.58
35:Ah:160:ARG:N	35:Ah:161:PRO:CD	2.66	0.58
36:B2:1462:U:H2'	36:B2:1464:C:C4	2.39	0.58
37:BC:38:C:O5'	37:BC:38:C:H6	1.87	0.58
38:Cz:65:VAL:CG1	38:Cz:147:LYS:HE3	2.34	0.58
40:CK:94:LYS:HA	40:CK:95:GLN:O	2.03	0.58
41:CO:20:ALA:C	41:CO:87:MET:CE	2.75	0.58
45:Ca:62:HIS:HB2	85:A5:315:G:C8	2.38	0.58
45:Ca:65:ARG:HH21	45:Ca:65:ARG:CG	2.16	0.58
45:Ca:79:TRP:CZ2	45:Ca:92:LYS:HG2	2.37	0.58
49:CQ:161:SER:HB2	49:CQ:162:HIS:CB	2.33	0.58
50:CR:132:PHE:HD1	50:CR:137:ILE:HD13	1.68	0.58
51:CA:209:HIS:ND1	51:CA:211:PHE:HB2	2.18	0.58
52:CS:83:ARG:HH11	52:CS:125:GLN:NE2	2.01	0.58
53:CT:29:THR:OG1	53:CT:30:TYR:CD2	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:92:LEU:HD12	54:CP:92:LEU:O	2.04	0.58
56:CX:60:TYR:CD1	56:CX:60:TYR:C	2.82	0.58
57:CY:117:LYS:HG3	57:CY:121:ARG:NH2	2.18	0.58
60:Cr:32:LEU:HB3	60:Cr:112:ARG:CZ	2.32	0.58
60:Cr:76:SER:C	60:Cr:79:ARG:CZ	2.76	0.58
63:CB:116:ARG:CD	63:CB:122:TRP:HB2	2.30	0.58
65:Cc:74:TYR:CD1	65:Cc:81:LEU:CD2	2.87	0.58
70:Ci:4:ARG:C	70:Ci:6:PRO:HD3	2.28	0.58
74:CC:158:VAL:O	74:CC:217:ILE:HG12	2.03	0.58
75:Cm:111:ARG:CG	75:Cm:111:ARG:NH2	2.61	0.58
77:Cp:36:LYS:HZ2	77:Cp:46:LYS:NZ	2.01	0.58
78:Co:72:CYS:CB	78:Co:73:VAL:HG23	2.32	0.58
80:CH:129:ARG:CG	80:CH:130:PRO:HD3	2.33	0.58
85:A5:2263:A:C8	85:A5:2265:G:C8	2.92	0.58
85:A5:5025:C:H6	85:A5:5026:U:C5'	2.12	0.58
1:Az:477:GLN:CD	1:Az:477:GLN:H	2.12	0.58
2:Ag:194:TYR:HE2	2:Ag:212:LYS:CE	2.12	0.58
4:AK:42:ASN:O	4:AK:43:LEU:HD23	2.03	0.58
5:AO:75:MET:CE	5:AO:118:ALA:HB2	2.33	0.58
6:AX:52:LEU:HD12	6:AX:53:GLU:HB3	1.86	0.58
6:AX:90:CYS:O	6:AX:91:LEU:O	2.22	0.58
6:AX:107:ARG:O	6:AX:108:LYS:HB2	2.03	0.58
10:AN:119:GLU:O	10:AN:123:HIS:CD2	2.55	0.58
16:AA:138:SER:O	17:AV:30:ALA:HB2	2.01	0.58
18:AY:120:THR:C	18:AY:122:LYS:CD	2.76	0.58
20:Aa:36:ILE:HD13	20:Aa:78:ALA:HB3	1.84	0.58
26:AJ:80:ARG:HA	26:AJ:83:ARG:HD3	1.86	0.58
31:AH:166:VAL:CG2	31:AH:173:PHE:HE2	2.13	0.58
33:AI:144:LYS:HG3	36:B2:190:G:H5'	1.86	0.58
33:AI:149:TYR:HA	33:AI:152:ARG:NH1	2.19	0.58
35:Ah:150:GLU:O	35:Ah:151:PHE:CG	2.56	0.58
36:B2:184:G:H2'	36:B2:185:G:C8	2.39	0.58
36:B2:532:C:H2'	36:B2:533:A:H8	1.68	0.58
36:B2:839:C:H2'	36:B2:841:G:C5'	2.33	0.58
38:Cz:29:LEU:HD12	38:Cz:171:HIS:HD2	1.69	0.58
39:Cq:12:ASN:CB	39:Cq:16:LYS:HE3	2.33	0.58
39:Cq:36:GLY:C	39:Cq:38:LYS:H	2.11	0.58
39:Cq:214:ARG:HB3	83:Cs:10:ILE:HD11	1.84	0.58
39:Cq:215:PHE:CE2	83:Cs:60:ILE:HG13	2.38	0.58
41:CO:190:ASP:HA	41:CO:192:TYR:N	2.19	0.58
42:CL:18:TRP:CH2	74:CC:108:TRP:HZ2	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:89:LYS:NZ	61:Ch:114:TYR:CE2	2.65	0.58
48:CD:41:LYS:HE3	53:CT:93:ILE:HD12	1.78	0.58
51:CA:118:GLU:CD	51:CA:119:LYS:HG2	2.28	0.58
53:CT:25:VAL:HG12	53:CT:26:PRO:CD	2.33	0.58
54:CP:115:GLU:OE1	54:CP:151:THR:CB	2.51	0.58
55:CU:107:LYS:HE2	55:CU:107:LYS:N	2.17	0.58
56:CX:141:ALA:HB1	56:CX:142:PRO:CD	2.33	0.58
58:CW:21:TYR:HE2	58:CW:23:ARG:CB	2.17	0.58
60:Cr:4:HIS:CD2	74:CC:288:ASP:CA	2.81	0.58
60:Cr:33:LYS:N	60:Cr:33:LYS:HZ2	2.01	0.58
60:Cr:78:VAL:CG2	60:Cr:82:ILE:CB	2.79	0.58
61:Ch:29:SER:HA	61:Ch:32:ARG:HG3	1.84	0.58
63:CB:383:GLU:CD	63:CB:384:GLU:N	2.62	0.58
66:Cd:68:LEU:HD22	66:Cd:106:VAL:HG12	1.86	0.58
66:Cd:85:ARG:CB	66:Cd:114:PHE:CZ	2.85	0.58
66:Cd:116:ASN:O	66:Cd:117:LEU:HD11	2.02	0.58
67:Ce:6:PRO:HD3	67:Ce:93:LYS:CG	2.33	0.58
68:Cf:8:LYS:HZ1	81:CE:279:ASN:C	2.10	0.58
70:Ci:11:LEU:CA	70:Ci:12:ASN:CG	2.76	0.58
71:Cj:12:ARG:NH1	71:Cj:12:ARG:CB	2.66	0.58
80:CH:7:ASN:CA	80:CH:58:ASP:OD1	2.46	0.58
81:CE:258:LEU:HB2	81:CE:259:PRO:CD	2.34	0.58
82:CG:261:LEU:HG	82:CG:265:LEU:CD2	2.33	0.58
83:Ct:42:PHE:O	83:Ct:46:LEU:HG	2.04	0.58
85:A5:463:A:C2	85:A5:692:A:C2	2.92	0.58
1:Az:6:VAL:C	1:Az:8:GLN:N	2.61	0.58
1:Az:369:CYS:HB3	1:Az:386:LYS:HG3	1.86	0.58
2:Ag:30:MET:CE	2:Ag:42:MET:HE3	2.32	0.58
2:Ag:78:ALA:O	2:Ag:89:LEU:HD12	2.04	0.58
2:Ag:191:HIS:NE2	2:Ag:195:LEU:HD21	2.11	0.58
3:AU:47:ASN:HD22	3:AU:47:ASN:H	1.50	0.58
3:AU:50:VAL:HG22	3:AU:51:LYS:N	2.19	0.58
6:AX:8:ARG:O	11:AL:102:PHE:O	2.22	0.58
7:AM:64:LEU:HD11	25:Af:104:LYS:HA	1.85	0.58
10:AN:114:ARG:HD3	10:AN:117:LEU:HD12	1.85	0.58
11:AL:71:ARG:HD2	11:AL:73:LEU:HD11	1.84	0.58
13:AP:53:GLN:NE2	13:AP:80:LEU:HD22	2.16	0.58
13:AP:107:ILE:O	13:AP:107:ILE:HG13	2.03	0.58
15:AB:137:LEU:HD23	15:AB:215:VAL:HA	1.84	0.58
16:AA:202:TYR:C	16:AA:203:PHE:CD1	2.81	0.58
17:AV:40:ASP:HB3	17:AV:47:ASN:HD21	1.60	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:32:MET:SD	29:AG:100:CYS:SG	3.01	0.58
29:AG:32:MET:HA	29:AG:52:ILE:HG23	1.86	0.58
29:AG:220:ALA:O	29:AG:224:ARG:HG2	2.04	0.58
31:AH:117:PRO:HD2	31:AH:120:ARG:HB2	1.84	0.58
32:AW:77:PRO:HD2	32:AW:79:PHE:CZ	2.39	0.58
33:AI:141:ARG:HD3	33:AI:144:LYS:CG	2.33	0.58
34:AQ:138:ARG:HH12	36:B2:1646:C:H3'	1.68	0.58
36:B2:79:A:O2'	36:B2:80:G:H8	1.85	0.58
39:Cq:51:ALA:CA	39:Cq:91:THR:HG22	2.33	0.58
39:Cq:134:LYS:N	39:Cq:134:LYS:CD	2.67	0.58
39:Cq:220:ARG:NH1	39:Cq:223:ALA:HB2	2.09	0.58
40:CK:65:GLN:O	40:CK:66:ASN:OD1	2.22	0.58
40:CK:117:ARG:N	40:CK:117:ARG:NE	2.37	0.58
40:CK:125:LEU:HD13	40:CK:163:PRO:CB	2.21	0.58
41:CO:50:ASN:HD22	41:CO:136:ALA:HB3	1.69	0.58
42:CL:24:THR:HB	42:CL:26:PHE:CE2	2.39	0.58
45:Ca:47:LYS:CA	49:CQ:156:PRO:HG2	2.34	0.58
46:CN:56:LYS:HG3	46:CN:59:TYR:CD2	2.39	0.58
47:CI:16:PRO:CG	47:CI:128:ARG:HH11	1.92	0.58
47:CI:66:GLU:OE1	47:CI:66:GLU:HA	2.03	0.58
49:CQ:38:ARG:HG3	74:CC:302:LEU:HD22	1.85	0.58
49:CQ:39:THR:HG23	49:CQ:41:SER:N	2.19	0.58
51:CA:3:ARG:HD2	51:CA:208:GLU:OE2	2.04	0.58
51:CA:155:LYS:O	51:CA:155:LYS:CD	2.50	0.58
52:CS:141:ALA:CB	80:CH:1:MET:SD	2.80	0.58
54:CP:29:THR:HG22	54:CP:87:SER:CB	2.34	0.58
57:CY:66:GLN:NE2	57:CY:66:GLN:CA	2.30	0.58
62:Cb:30:GLU:O	62:Cb:30:GLU:HG2	2.04	0.58
63:CB:179:HIS:NE2	63:CB:344:VAL:HG21	2.18	0.58
63:CB:356:LYS:O	63:CB:357:ARG:C	2.45	0.58
64:CF:64:MET:O	64:CF:67:THR:HG22	2.03	0.58
64:CF:157:ARG:O	64:CF:159:TYR:HD1	1.86	0.58
66:Cd:39:LYS:HZ1	66:Cd:78:ARG:NE	2.02	0.58
66:Cd:61:ASP:O	66:Cd:62:VAL:CG2	2.51	0.58
68:Cf:54:LYS:N	68:Cf:54:LYS:HD2	2.18	0.58
74:CC:7:LEU:HD11	74:CC:21:ASN:C	2.28	0.58
74:CC:22:VAL:HG11	74:CC:257:PHE:CD2	2.37	0.58
74:CC:146:GLU:O	74:CC:175:LYS:CE	2.51	0.58
77:Cp:47:MET:HE3	77:Cp:56:HIS:O	2.04	0.58
82:CG:58:PRO:HG2	82:CG:61:ILE:HD12	1.85	0.58
82:CG:138:ALA:O	82:CG:139:GLY:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:231:MET:HE3	1:Az:232:TYR:CE1	2.39	0.58
2:Ag:87:LEU:HB2	2:Ag:101:PHE:HB2	1.86	0.58
4:AK:95:ARG:HA	4:AK:95:ARG:NE	2.17	0.58
5:AO:51:GLU:OE2	15:AB:28:LYS:NZ	2.36	0.58
7:AM:42:LEU:CD1	7:AM:69:LEU:HD23	2.33	0.58
7:AM:61:TYR:OH	7:AM:108:CYS:SG	2.61	0.58
8:AS:40:TYR:HA	8:AS:83:PHE:HZ	1.68	0.58
10:AN:16:LEU:N	21:Ab:26:GLN:HE22	2.02	0.58
11:AL:130:GLU:HG2	11:AL:131:CYS:N	2.19	0.58
14:AT:4:VAL:HG11	14:AT:139:ALA:HB2	1.84	0.58
14:AT:91:HIS:N	14:AT:91:HIS:HD2	1.97	0.58
15:AB:90:ASP:CG	15:AB:91:VAL:N	2.62	0.58
15:AB:92:GLN:O	15:AB:95:ASN:HB2	2.02	0.58
16:AA:2:SER:OG	16:AA:3:GLY:N	2.36	0.58
19:AZ:90:GLU:O	19:AZ:93:SER:OG	2.17	0.58
20:Aa:97:PRO:HB3	36:B2:1868:U:H1'	1.86	0.58
25:Af:88:PRO:O	25:Af:90:LYS:N	2.36	0.58
27:AE:36:HIS:HB3	27:AE:41:CYS:SG	2.42	0.58
29:AG:135:PRO:CG	29:AG:144:LEU:HD23	2.33	0.58
30:AF:15:PRO:HD3	34:AQ:56:LEU:CB	2.34	0.58
30:AF:116:ILE:H	30:AF:116:ILE:CD1	2.00	0.58
31:AH:149:ASP:C	31:AH:151:SER:N	2.61	0.58
33:AI:128:LYS:O	33:AI:131:PRO:HD2	2.02	0.58
36:B2:1240:A:C2	36:B2:1268:C:H5'	2.39	0.58
38:Cz:23:ARG:HG2	38:Cz:212:LYS:HE2	1.85	0.58
38:Cz:117:ILE:HA	38:Cz:120:ILE:CG2	2.34	0.58
41:CO:188:LYS:HE2	41:CO:188:LYS:HA	0.63	0.58
41:CO:203:VAL:C	44:CM:100:ARG:HG2	2.19	0.58
42:CL:163:LYS:HG3	45:Ca:100:ILE:HB	1.85	0.58
44:CM:47:ARG:NH2	52:CS:73:LEU:HD11	2.19	0.58
44:CM:66:HIS:NE2	52:CS:148:SER:OG	2.35	0.58
46:CN:43:THR:OG1	46:CN:131:GLU:OE2	2.22	0.58
46:CN:89:VAL:HG12	46:CN:90:ASN:N	2.19	0.58
48:CD:223:PHE:CB	86:A7:49:A:OP1	2.51	0.58
48:CD:253:TYR:CD1	48:CD:254:GLU:N	2.65	0.58
49:CQ:11:ARG:HB2	49:CQ:12:LYS:O	2.03	0.58
49:CQ:110:ARG:NH2	49:CQ:120:ILE:CD1	2.55	0.58
50:CR:112:SER:O	50:CR:113:LYS:CB	2.38	0.58
52:CS:2:LYS:HZ1	52:CS:43:ARG:HG2	1.52	0.58
52:CS:17:LEU:CD2	52:CS:58:SER:C	2.70	0.58
53:CT:13:TYR:HD2	53:CT:13:TYR:H	1.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CT:122:LYS:HE3	53:CT:124:THR:OG1	2.04	0.58
55:CU:105:ASN:ND2	55:CU:111:GLU:CD	2.62	0.58
57:CY:65:GLN:C	57:CY:67:ILE:HG13	2.29	0.58
60:Cr:27:THR:CA	60:Cr:31:ASN:ND2	2.66	0.58
62:Cb:36:ASP:O	62:Cb:39:PHE:HB2	2.04	0.58
63:CB:10:ARG:HH12	63:CB:265:SER:HB2	1.68	0.58
64:CF:28:LEU:O	64:CF:30:ILE:N	2.37	0.58
64:CF:51:TYR:CE2	81:CE:58:SER:CA	2.87	0.58
64:CF:243:LEU:HD22	64:CF:247:MET:SD	2.44	0.58
66:Cd:39:LYS:HZ2	66:Cd:78:ARG:HE	1.48	0.58
69:Cg:64:LEU:N	69:Cg:64:LEU:HD22	2.18	0.58
70:Ci:12:ASN:ND2	70:Ci:13:LYS:H	2.02	0.58
72:Ck:23:VAL:HG13	72:Ck:35:LYS:O	2.04	0.58
74:CC:28:PHE:O	74:CC:129:ALA:CB	2.52	0.58
74:CC:79:VAL:C	74:CC:81:GLY:H	2.11	0.58
74:CC:144:ILE:HD11	74:CC:249:PHE:CD2	2.36	0.58
74:CC:235:LEU:HD21	74:CC:252:TRP:CH2	2.39	0.58
74:CC:325:MET:O	74:CC:328:LEU:O	2.22	0.58
74:CC:342:ARG:CZ	74:CC:346:ASN:HD21	2.17	0.58
79:CJ:136:ARG:HH11	79:CJ:155:HIS:HA	1.69	0.58
81:CE:224:LYS:C	81:CE:226:ARG:HH11	2.11	0.58
83:Ct:15:ILE:HG12	84:Cv:5:ALA:CB	2.33	0.58
1:Az:24:VAL:HG21	1:Az:32:LYS:HG3	1.84	0.58
1:Az:727:ARG:HH11	1:Az:727:ARG:CG	2.17	0.58
1:Az:742:GLU:O	1:Az:818:GLN:HB3	2.03	0.58
4:AK:13:GLU:HG3	4:AK:14:LEU:N	2.19	0.58
4:AK:53:LYS:CA	4:AK:58:VAL:HG13	2.34	0.58
6:AX:105:PHE:CD2	6:AX:119:ARG:C	2.82	0.58
7:AM:69:LEU:CD1	7:AM:76:LEU:CD2	2.79	0.58
8:AS:10:GLN:CB	8:AS:13:LEU:HD21	2.32	0.58
9:Ad:46:TYR:N	9:Ad:46:TYR:CD2	2.72	0.58
12:AR:84:TYR:C	16:AA:201:LEU:CD1	2.74	0.58
12:AR:90:ALA:C	12:AR:91:LEU:HG	2.29	0.58
14:AT:23:LYS:CD	14:AT:54:TYR:CG	2.62	0.58
14:AT:28:LEU:O	14:AT:28:LEU:CD2	2.44	0.58
14:AT:65:TYR:CE2	14:AT:128:GLN:HG3	2.39	0.58
15:AB:105:LEU:O	15:AB:106:THR:CB	2.52	0.58
18:AY:55:ILE:HA	18:AY:74:MET:O	2.04	0.58
18:AY:91:LEU:C	18:AY:97:TYR:CB	2.77	0.58
18:AY:117:VAL:HB	18:AY:124:ASN:HD21	1.69	0.58
21:Ab:81:ARG:HB2	21:Ab:82:LYS:CA	2.26	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:49:PHE:C	24:Ae:51:LYS:N	2.62	0.58
29:AG:24:LEU:O	29:AG:25:ARG:C	2.45	0.58
29:AG:76:LEU:HD21	29:AG:92:ARG:CG	2.19	0.58
29:AG:142:ARG:NE	29:AG:147:LEU:HB3	2.18	0.58
31:AH:46:THR:HG23	31:AH:47:ALA:N	2.17	0.58
31:AH:154:ILE:HG22	31:AH:185:VAL:CG2	2.34	0.58
32:AW:20:ARG:NH2	36:B2:1139:C:H1'	2.18	0.58
34:AQ:112:LEU:CD2	34:AQ:119:LEU:CD1	2.71	0.58
36:B2:79:A:HO2'	36:B2:80:G:H8	1.47	0.58
39:Cq:147:ILE:HG23	39:Cq:150:GLY:O	2.03	0.58
39:Cq:245:TYR:CE1	83:Ct:60:ILE:HD13	2.36	0.58
40:CK:161:GLU:C	40:CK:163:PRO:CD	2.76	0.58
41:CO:9:LEU:CD1	52:CS:167:PHE:CE1	2.82	0.58
41:CO:57:PHE:HZ	41:CO:82:ARG:NH2	1.96	0.58
41:CO:152:VAL:O	41:CO:155:THR:OG1	2.20	0.58
42:CL:129:ARG:O	42:CL:130:LYS:CG	2.52	0.58
42:CL:167:ARG:NH1	42:CL:170:THR:OG1	2.37	0.58
44:CM:63:LYS:C	44:CM:63:LYS:HD2	2.27	0.58
45:Ca:28:HIS:NE2	45:Ca:32:ARG:NE	2.52	0.58
45:Ca:84:GLU:CB	45:Ca:87:ARG:NE	2.66	0.58
46:CN:56:LYS:NZ	46:CN:145:ASN:ND2	2.51	0.58
47:CI:92:HIS:CG	47:CI:94:PHE:CE2	2.92	0.58
48:CD:118:ILE:CG2	48:CD:135:ILE:HD12	2.34	0.58
48:CD:261:VAL:CG2	48:CD:262:LYS:HB2	2.30	0.58
48:CD:262:LYS:O	48:CD:266:TRP:HD1	1.87	0.58
51:CA:145:LYS:HD3	51:CA:157:VAL:CG1	2.34	0.58
52:CS:120:ARG:O	52:CS:121:ALA:C	2.46	0.58
54:CP:105:LYS:HD3	54:CP:105:LYS:H	1.69	0.58
55:CU:59:GLY:O	55:CU:61:VAL:CG1	2.52	0.58
58:CW:96:GLN:O	58:CW:97:LYS:HD3	2.03	0.58
59:CZ:5:MET:SD	59:CZ:25:ILE:HD11	2.43	0.58
60:Cr:33:LYS:O	60:Cr:35:ARG:O	2.21	0.58
63:CB:58:ARG:CD	63:CB:363:ILE:HG23	2.33	0.58
63:CB:233:SER:HB2	63:CB:249:ARG:HH22	1.68	0.58
70:CI:80:HIS:O	70:CI:84:LYS:HG3	2.04	0.58
71:Cj:12:ARG:HB3	71:Cj:12:ARG:HH11	1.68	0.58
71:Cj:81:GLY:C	71:Cj:82:THR:HG23	2.28	0.58
74:CC:128:LEU:CD2	74:CC:235:LEU:CD1	2.80	0.58
74:CC:312:ARG:O	74:CC:312:ARG:HG2	2.03	0.58
80:CH:7:ASN:CB	80:CH:58:ASP:CG	2.62	0.58
80:CH:140:GLN:HB3	80:CH:143:GLU:CD	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:221:LYS:HG2	85:A5:4939:C:H41	1.68	0.58
82:CG:71:TYR:CE2	82:CG:76:VAL:HG21	2.39	0.58
82:CG:243:GLY:CA	82:CG:244:PRO:CD	2.82	0.58
85:A5:1051:G:H2'	85:A5:1052:G:H5''	1.85	0.58
85:A5:1282:G:N3	85:A5:1282:G:H2'	2.19	0.58
1:Az:267:ASP:C	1:Az:267:ASP:CB	2.75	0.57
1:Az:521:VAL:O	1:Az:525:LYS:CD	2.52	0.57
1:Az:826:ASP:OD1	1:Az:828:SER:N	2.37	0.57
5:AO:53:ILE:HG22	15:AB:25:PHE:CE1	2.37	0.57
6:AX:87:ASN:HB2	6:AX:90:CYS:SG	2.43	0.57
6:AX:126:ALA:O	6:AX:128:VAL:N	2.37	0.57
8:AS:55:ARG:CG	19:AZ:48:VAL:HG11	2.33	0.57
8:AS:73:ASN:HB3	8:AS:76:GLN:OE1	2.04	0.57
9:Ad:40:ARG:HG2	9:Ad:41:GLN:OE1	2.03	0.57
11:AL:6:THR:HG23	11:AL:7:GLU:N	2.19	0.57
16:AA:14:ASP:CG	16:AA:180:ARG:HH22	2.11	0.57
16:AA:195:TRP:CE2	16:AA:197:VAL:HB	2.39	0.57
18:AY:20:ARG:CD	18:AY:74:MET:HE3	2.24	0.57
18:AY:55:ILE:HD11	18:AY:75:ILE:HD13	1.86	0.57
20:Aa:24:THR:HG23	20:Aa:72:HIS:O	2.04	0.57
23:AD:116:ARG:O	23:AD:120:TYR:HB2	2.04	0.57
24:Ae:18:LYS:O	24:Ae:18:LYS:HG2	1.92	0.57
25:Af:108:VAL:CG1	25:Af:113:LYS:O	2.40	0.57
25:Af:114:ILE:HG13	25:Af:114:ILE:O	2.04	0.57
26:AJ:134:HIS:HE2	36:B2:562:U:P	2.27	0.57
26:AJ:170:PRO:CB	26:AJ:174:LYS:NZ	2.67	0.57
27:AE:229:GLY:HA3	27:AE:235:TRP:CD1	2.39	0.57
28:AC:176:LYS:CD	28:AC:177:PRO:HD2	2.35	0.57
30:AF:134:VAL:HG11	30:AF:136:ARG:NH2	2.12	0.57
30:AF:194:ASP:OD1	30:AF:194:ASP:O	2.21	0.57
31:AH:145:ARG:NH1	31:AH:155:LYS:HZ2	1.95	0.57
33:AI:129:LEU:O	33:AI:134:GLU:HB2	2.03	0.57
33:AI:138:ASN:O	33:AI:139:LYS:C	2.47	0.57
34:AQ:93:VAL:HG11	34:AQ:105:LYS:HE2	0.58	0.57
38:Cz:38:LEU:O	38:Cz:163:LEU:HD22	2.04	0.57
39:Cq:90:PHE:O	39:Cq:91:THR:HG23	2.03	0.57
42:CL:87:HIS:CE1	42:CL:90:VAL:HG23	2.39	0.57
42:CL:127:PHE:HE2	42:CL:144:LEU:HD23	1.68	0.57
46:CN:138:PHE:CB	46:CN:143:ARG:HH21	2.15	0.57
47:CI:57:TYR:CD2	47:CI:57:TYR:O	2.57	0.57
49:CQ:32:TYR:OH	49:CQ:47:VAL:HG21	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:77:ASN:CA	49:CQ:78:LYS:HE2	2.34	0.57
51:CA:5:ILE:HG12	51:CA:208:GLU:O	2.04	0.57
52:CS:2:LYS:NZ	52:CS:34:ALA:HB2	2.19	0.57
57:CY:65:GLN:HA	57:CY:67:ILE:HG13	1.86	0.57
61:Ch:73:TYR:HB2	61:Ch:79:LYS:HE2	1.80	0.57
62:Cb:72:ILE:CG2	62:Cb:73:LYS:N	2.67	0.57
65:Cc:48:LEU:HD23	65:Cc:93:THR:HG23	1.86	0.57
66:Cd:81:PRO:HD2	66:Cd:81:PRO:O	2.02	0.57
69:Cg:4:ARG:NH1	85:A5:2806:A:C2	2.72	0.57
69:Cg:53:LEU:HD23	69:Cg:80:GLY:O	2.04	0.57
72:Ck:17:ARG:NH1	72:Ck:38:CYS:SG	2.77	0.57
72:Ck:24:LYS:CE	72:Ck:67:LYS:CD	2.71	0.57
73:Cl:2:SER:HB3	73:Cl:5:LYS:CG	2.33	0.57
74:CC:29:LYS:O	74:CC:30:ALA:C	2.47	0.57
74:CC:124:ILE:HG23	74:CC:240:LEU:HD12	1.85	0.57
79:CJ:13:ARG:NH1	79:CJ:136:ARG:NH1	2.52	0.57
82:CG:28:VAL:O	82:CG:31:LEU:HD23	2.04	0.57
82:CG:51:LEU:CD2	82:CG:51:LEU:N	2.66	0.57
85:A5:4943:A:O5'	85:A5:4944:C:O5'	2.22	0.57
1:Az:4:PHE:CD2	1:Az:5:THR:CA	2.86	0.57
1:Az:239:LYS:HD3	1:Az:241:GLU:HG2	1.85	0.57
1:Az:393:PRO:O	1:Az:393:PRO:HG2	2.03	0.57
2:Ag:173:LEU:HD22	2:Ag:189:ILE:HG12	1.86	0.57
7:AM:13:ASP:HB2	7:AM:16:THR:OG1	2.04	0.57
8:AS:30:ILE:CD1	8:AS:45:LEU:HD21	2.29	0.57
9:Ad:11:PRO:HG2	36:B2:1618:C:C4	2.39	0.57
9:Ad:50:ILE:HG21	9:Ad:52:PHE:CE2	2.39	0.57
10:AN:142:GLU:HG2	10:AN:145:THR:HG23	1.86	0.57
11:AL:97:ARG:O	11:AL:99:TYR:C	2.47	0.57
11:AL:109:MET:SD	11:AL:140:PHE:CE1	2.97	0.57
15:AB:130:THR:CG2	15:AB:179:ASN:N	2.67	0.57
15:AB:226:GLY:O	15:AB:230:GLU:HG3	2.04	0.57
18:AY:66:GLY:HA3	36:B2:582:U:OP1	2.04	0.57
22:Ac:21:THR:CG2	22:Ac:22:GLY:N	2.50	0.57
22:Ac:65:ALA:O	22:Ac:66:ARG:HG2	2.05	0.57
23:AD:126:ILE:HD12	23:AD:134:CYS:HB2	1.87	0.57
23:AD:132:LYS:N	23:AD:191:PRO:HG2	2.17	0.57
23:AD:218:LEU:CG	23:AD:218:LEU:O	2.53	0.57
27:AE:67:GLN:HA	27:AE:67:GLN:OE1	2.02	0.57
27:AE:156:VAL:O	27:AE:157:ASN:HB2	2.03	0.57
28:AC:116:THR:HG23	28:AC:118:ALA:C	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:182:CYS:SG	28:AC:250:TYR:CZ	2.93	0.57
29:AG:174:PRO:O	29:AG:175:LYS:HB2	2.02	0.57
31:AH:15:LYS:HB3	31:AH:16:PRO:HD2	1.61	0.57
33:AI:9:HIS:O	33:AI:10:LYS:CG	2.52	0.57
33:AI:29:LEU:HD21	33:AI:31:ARG:HH12	1.69	0.57
33:AI:62:VAL:HG23	33:AI:75:LYS:CE	2.32	0.57
33:AI:142:SER:HB3	33:AI:143:LYS:CD	2.34	0.57
34:AQ:18:THR:O	34:AQ:75:GLY:HA3	2.04	0.57
36:B2:889:U:H2'	36:B2:890:U:H5''	1.86	0.57
38:Cz:30:GLU:OE2	38:Cz:210:MET:CB	2.52	0.57
39:Cq:60:MET:CE	39:Cq:88:PHE:CZ	2.84	0.57
39:Cq:264:LYS:HE3	84:Cv:1:MET:CE	2.35	0.57
40:CK:110:VAL:O	40:CK:110:VAL:HG12	2.04	0.57
40:CK:142:ASN:ND2	40:CK:151:ILE:CD1	2.67	0.57
48:CD:111:ASN:OD1	48:CD:116:ASP:OD2	2.21	0.57
49:CQ:24:TYR:C	74:CC:283:LYS:HD3	2.30	0.57
52:CS:117:HIS:O	52:CS:118:ARG:HB2	2.04	0.57
54:CP:27:LYS:HG2	54:CP:63:TYR:HB3	1.79	0.57
55:CU:80:LYS:CB	55:CU:110:TYR:HH	2.12	0.57
56:CX:76:ILE:CD1	56:CX:104:ALA:HB1	2.28	0.57
57:CY:47:MET:HE2	57:CY:118:ILE:HG21	1.85	0.57
61:Ch:9:LEU:CD1	61:Ch:56:ARG:HH12	2.17	0.57
61:Ch:84:ARG:O	61:Ch:85:PRO:C	2.48	0.57
64:CF:89:LEU:HD13	64:CF:90:ALA:N	2.19	0.57
64:CF:196:THR:O	64:CF:197:VAL:HB	2.04	0.57
66:Cd:16:ALA:O	66:Cd:17:ILE:HB	2.04	0.57
67:Ce:132:GLU:HA	67:Ce:132:GLU:OE1	2.04	0.57
70:Ci:33:LEU:CB	70:Ci:38:LYS:HE3	2.10	0.57
74:CC:23:THR:O	74:CC:24:LEU:O	2.22	0.57
74:CC:91:ALA:HB1	74:CC:92:PHE:HE2	0.83	0.57
74:CC:202:ILE:HG22	74:CC:203:GLN:N	2.18	0.57
74:CC:218:ILE:HG12	74:CC:229:LEU:HD12	0.83	0.57
78:Co:8:ARG:HG2	78:Co:8:ARG:HH11	1.69	0.57
80:CH:25:VAL:HG13	80:CH:38:PHE:CD2	2.39	0.57
80:CH:109:GLY:O	80:CH:128:MET:C	2.42	0.57
80:CH:140:GLN:CB	80:CH:143:GLU:OE1	2.52	0.57
81:CE:65:ARG:HB3	81:CE:69:TYR:HE2	1.68	0.57
81:CE:83:LYS:NZ	81:CE:87:LYS:N	2.48	0.57
81:CE:282:TYR:N	81:CE:282:TYR:HD2	2.02	0.57
1:Az:113:SER:OG	1:Az:481:LYS:NZ	2.37	0.57
1:Az:330:LYS:O	1:Az:331:GLU:CG	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:481:LYS:HZ1	1:Az:532:PRO:CA	1.89	0.57
1:Az:503:PRO:C	1:Az:505:VAL:H	2.02	0.57
1:Az:591:CYS:O	1:Az:728:CYS:SG	2.61	0.57
1:Az:727:ARG:NH2	1:Az:853:ASN:O	2.37	0.57
2:Ag:69:VAL:HG22	2:Ag:70:VAL:H	1.69	0.57
2:Ag:76:GLN:HE21	2:Ag:76:GLN:CA	2.18	0.57
2:Ag:110:SER:HB2	2:Ag:153:CYS:HA	1.85	0.57
4:AK:39:ASN:C	4:AK:40:VAL:HG12	2.28	0.57
7:AM:44:LYS:C	7:AM:46:GLN:H	2.11	0.57
8:AS:80:PRO:CG	8:AS:82:TRP:NE1	2.67	0.57
8:AS:89:ASP:HB2	8:AS:94:LYS:HB2	1.85	0.57
15:AB:47:THR:CG2	15:AB:67:PHE:CZ	2.82	0.57
19:AZ:92:LEU:CD1	19:AZ:109:TYR:CE1	2.84	0.57
23:AD:149:SER:O	23:AD:150:MET:SD	2.63	0.57
26:AJ:32:ILE:O	26:AJ:35:TYR:C	2.48	0.57
28:AC:114:LYS:HD2	28:AC:114:LYS:C	2.29	0.57
29:AG:170:ARG:HG2	36:B2:71:G:O6	2.05	0.57
30:AF:93:VAL:C	30:AF:97:PHE:CE1	2.82	0.57
30:AF:119:SER:O	30:AF:121:PRO:HD3	2.04	0.57
30:AF:136:ARG:O	30:AF:203:ASN:CB	2.45	0.57
31:AH:60:ILE:HG21	31:AH:92:VAL:HG22	1.87	0.57
31:AH:109:ARG:O	31:AH:110:THR:HB	2.04	0.57
31:AH:188:GLU:HG2	31:AH:189:PHE:H	1.69	0.57
36:B2:281:C:H5"	36:B2:281:C:H6	1.69	0.57
38:Cz:198:TRP:CG	38:Cz:199:GLN:H	2.22	0.57
39:Cq:246:LYS:HA	39:Cq:249:LEU:CG	2.34	0.57
39:Cq:277:ALA:CA	39:Cq:280:PRO:HG3	2.34	0.57
40:CK:94:LYS:H	40:CK:95:GLN:HB2	1.69	0.57
40:CK:114:ARG:HE	40:CK:130:LYS:HE2	1.69	0.57
41:CO:10:ASP:CB	41:CO:117:ARG:HG3	2.19	0.57
41:CO:185:VAL:C	41:CO:188:LYS:HB2	2.28	0.57
42:CL:143:GLU:OE1	42:CL:146:LEU:HG	2.05	0.57
43:CV:42:VAL:O	43:CV:45:ILE:HD12	2.04	0.57
43:CV:82:ILE:HG21	43:CV:121:VAL:CG1	2.33	0.57
48:CD:271:MET:C	48:CD:272:SER:O	2.46	0.57
50:CR:133:LYS:HG3	50:CR:134:ASN:H	1.70	0.57
50:CR:133:LYS:HG2	50:CR:137:ILE:HD12	1.86	0.57
51:CA:51:ASP:OD2	51:CA:54:ARG:NE	2.37	0.57
54:CP:54:GLN:O	54:CP:72:GLN:NE2	2.34	0.57
55:CU:63:ILE:HD11	55:CU:72:VAL:HG13	1.84	0.57
57:CY:34:LEU:CG	57:CY:38:LEU:HB3	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:108:MET:HE1	81:CE:115:TYR:CE1	2.38	0.57
61:Ch:67:GLU:HG3	61:Ch:71:LYS:HE3	1.87	0.57
63:CB:248:LEU:HD12	63:CB:248:LEU:C	2.28	0.57
63:CB:327:THR:CG2	63:CB:328:ASN:HD21	2.17	0.57
64:CF:153:LEU:HD23	64:CF:248:ASN:HD22	1.68	0.57
67:Ce:37:LYS:HD3	67:Ce:38:PRO:CD	2.34	0.57
71:Cj:15:THR:HG21	85:A5:1637:A:H61	1.68	0.57
73:Cl:42:ARG:HD2	73:Cl:49:LEU:CD2	2.34	0.57
74:CC:306:ARG:C	74:CC:307:LYS:HG2	2.29	0.57
81:CE:54:ILE:N	81:CE:63:TYR:CD2	2.72	0.57
81:CE:126:LEU:O	81:CE:127:SER:CB	2.46	0.57
84:Cv:5:ALA:O	84:Cv:9:LEU:HG	2.05	0.57
85:A5:1341:U:H3	85:A5:1515:A:H61	1.52	0.57
85:A5:3965:A:H61	85:A5:4045:G:H21	1.51	0.57
1:Az:190:SER:HB3	1:Az:204:MET:HE2	1.86	0.57
1:Az:254:GLU:HA	1:Az:257:MET:HE3	1.85	0.57
1:Az:258:LYS:HD2	1:Az:258:LYS:O	2.05	0.57
1:Az:541:SER:C	1:Az:543:GLU:N	2.55	0.57
1:Az:602:LEU:HD22	1:Az:728:CYS:SG	2.44	0.57
1:Az:693:CYS:CB	1:Az:835:VAL:HA	2.34	0.57
5:AO:17:LEU:CG	5:AO:18:GLY:N	2.68	0.57
5:AO:125:LYS:NZ	20:Aa:56:ALA:O	2.37	0.57
6:AX:91:LEU:O	6:AX:94:ILE:N	2.31	0.57
6:AX:126:ALA:O	6:AX:128:VAL:CG2	2.52	0.57
7:AM:13:ASP:OD1	7:AM:13:ASP:N	2.30	0.57
12:AR:123:THR:HG22	16:AA:44:ASP:HA	0.58	0.57
13:AP:127:LYS:HE3	13:AP:128:HIS:HA	1.86	0.57
14:AT:30:VAL:O	14:AT:30:VAL:CG2	2.29	0.57
14:AT:76:THR:CG2	14:AT:95:GLY:O	2.52	0.57
23:AD:123:LEU:HD11	23:AD:154:ASP:CB	2.35	0.57
23:AD:214:LYS:O	23:AD:214:LYS:HE2	2.04	0.57
26:AJ:84:ILE:O	26:AJ:108:ARG:HD3	2.03	0.57
26:AJ:179:LYS:HA	26:AJ:182:GLN:CD	2.29	0.57
28:AC:169:TYR:CZ	28:AC:176:LYS:CA	2.86	0.57
29:AG:50:VAL:HG11	29:AG:111:LEU:CB	2.35	0.57
30:AF:134:VAL:HG12	30:AF:136:ARG:NH2	2.19	0.57
31:AH:100:ILE:HG13	31:AH:125:VAL:HG21	1.87	0.57
33:AI:136:ILE:O	33:AI:139:LYS:CD	2.52	0.57
34:AQ:105:LYS:NZ	34:AQ:109:LYS:CB	2.66	0.57
36:B2:1301:A:H2'	36:B2:1302:G:H5''	1.87	0.57
40:CK:94:LYS:HA	40:CK:96:LYS:N	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:118:HIS:O	40:CK:120:SER:N	2.37	0.57
41:CO:119:VAL:O	52:CS:167:PHE:CB	2.53	0.57
42:CL:116:ARG:HH11	42:CL:155:MET:CB	2.17	0.57
45:Ca:74:ASN:OD1	45:Ca:112:LEU:HB2	2.04	0.57
46:CN:138:PHE:CA	46:CN:143:ARG:CZ	2.72	0.57
49:CQ:85:THR:CG2	49:CQ:104:ARG:HB2	2.16	0.57
49:CQ:152:PHE:O	49:CQ:154:LYS:HG2	2.05	0.57
51:CA:247:ARG:HG2	51:CA:247:ARG:HH11	1.69	0.57
52:CS:82:LEU:HD13	52:CS:124:ILE:CG2	2.26	0.57
56:CX:48:ARG:HH21	85:A5:11:G:H4'	1.69	0.57
57:CY:74:TYR:CD1	57:CY:81:TYR:CE2	2.92	0.57
57:CY:82:ILE:HD12	57:CY:99:ILE:CD1	2.34	0.57
58:CW:25:ASP:OD1	58:CW:25:ASP:N	2.28	0.57
59:CZ:55:ALA:HA	82:CG:32:PHE:HE2	1.69	0.57
60:Cr:26:SER:OG	60:Cr:34:ALA:C	2.46	0.57
64:CF:67:THR:HG1	64:CF:71:MET:CE	2.17	0.57
64:CF:95:ILE:HG13	64:CF:139:TYR:O	2.04	0.57
67:Ce:5:ARG:HG3	67:Ce:6:PRO:HD3	1.74	0.57
69:Cg:3:GLN:OE1	69:Cg:29:ARG:NH2	2.37	0.57
74:CC:133:LEU:HG	74:CC:133:LEU:O	2.04	0.57
78:Co:73:VAL:HG11	78:Co:74:GLU:HG3	1.86	0.57
79:CJ:174:ILE:CG2	79:CJ:175:LEU:N	2.66	0.57
81:CE:219:LYS:HD3	85:A5:4939:C:H6	1.68	0.57
82:CG:76:VAL:HG12	82:CG:81:ASN:OD1	2.03	0.57
82:CG:217:LYS:CA	82:CG:217:LYS:CE	2.32	0.57
1:Az:154:VAL:CG1	1:Az:358:LEU:HD11	2.35	0.57
1:Az:155:LEU:HD11	1:Az:185:VAL:HG21	1.84	0.57
1:Az:331:GLU:HA	1:Az:335:LEU:HB2	1.87	0.57
1:Az:524:LEU:CD1	1:Az:536:CYS:SG	2.92	0.57
1:Az:700:VAL:HG12	1:Az:702:PHE:CE2	2.38	0.57
1:Az:762:VAL:CG1	1:Az:796:PHE:CD1	2.83	0.57
1:Az:775:GLN:CG	1:Az:782:PHE:CE2	2.85	0.57
4:AK:84:HIS:CD2	7:AM:27:ILE:HG13	2.32	0.57
5:AO:47:LEU:CA	15:AB:67:PHE:CE1	2.87	0.57
8:AS:33:ILE:CB	8:AS:36:VAL:CG1	2.80	0.57
10:AN:58:HIS:CD2	10:AN:59:GLY:H	2.23	0.57
11:AL:46:THR:HG23	11:AL:46:THR:O	2.04	0.57
11:AL:78:THR:HG23	11:AL:79:LYS:N	2.17	0.57
13:AP:44:ARG:CD	13:AP:82:ASP:O	2.52	0.57
14:AT:64:LEU:HD23	14:AT:64:LEU:H	1.70	0.57
14:AT:111:LYS:O	14:AT:124:THR:CG2	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:10:ARG:CD	18:AY:24:VAL:HG11	2.33	0.57
19:AZ:92:LEU:CD2	19:AZ:109:TYR:CE1	2.84	0.57
26:AJ:15:THR:HB	26:AJ:44:TRP:CH2	2.39	0.57
26:AJ:72:PHE:CE1	27:AE:248:ILE:CA	2.86	0.57
28:AC:78:LEU:CD1	28:AC:82:TYR:OH	2.47	0.57
29:AG:63:MET:HE3	29:AG:106:LEU:HD21	1.86	0.57
29:AG:184:VAL:C	29:AG:188:LYS:HE3	2.29	0.57
30:AF:65:GLN:NE2	30:AF:65:GLN:HA	2.16	0.57
30:AF:104:THR:O	30:AF:104:THR:HG22	2.03	0.57
35:Ah:158:ILE:CA	35:Ah:161:PRO:CG	2.75	0.57
38:Cz:99:LEU:O	38:Cz:100:VAL:O	2.22	0.57
39:Cq:24:TYR:HB2	39:Cq:25:PRO:HD3	1.74	0.57
42:CL:46:ILE:O	42:CL:48:PRO:C	2.48	0.57
42:CL:55:ILE:CD1	42:CL:120:TYR:CD2	2.87	0.57
42:CL:127:PHE:CZ	42:CL:144:LEU:HD22	2.40	0.57
45:Ca:119:LYS:C	45:Ca:120:GLN:CG	2.57	0.57
46:CN:76:PRO:O	46:CN:77:LYS:HB3	2.04	0.57
47:CI:26:VAL:HG11	47:CI:96:VAL:HG22	1.85	0.57
49:CQ:2:GLY:HA2	49:CQ:3:VAL:HG23	1.87	0.57
51:CA:67:TYR:CD1	82:CG:46:GLN:HB3	2.39	0.57
58:CW:24:THR:OG1	58:CW:25:ASP:CA	2.52	0.57
58:CW:70:LYS:O	58:CW:71:ARG:HG2	2.05	0.57
59:CZ:3:LYS:C	59:CZ:6:LYS:CE	2.72	0.57
60:Cr:34:ALA:CB	67:Ce:87:VAL:O	2.53	0.57
60:Cr:51:VAL:CG2	60:Cr:113:ARG:CG	2.82	0.57
63:CB:108:GLU:HG3	63:CB:137:TRP:CE2	2.38	0.57
66:Cd:86:VAL:CG1	66:Cd:106:VAL:HG13	2.33	0.57
67:Ce:39:ARG:HG2	67:Ce:39:ARG:NH2	2.02	0.57
69:Cg:45:ALA:C	69:Cg:47:GLY:N	2.54	0.57
75:Cm:90:ASN:HB3	80:CH:172:ILE:HD12	1.86	0.57
79:CJ:20:LEU:CD1	79:CJ:83:LEU:HD23	2.33	0.57
80:CH:16:VAL:HG13	80:CH:28:LYS:O	2.05	0.57
85:A5:2017:A:C8	85:A5:2018:C:C5	2.93	0.57
85:A5:2553:A:H3'	85:A5:2554:U:H5'	1.87	0.57
1:Az:496:VAL:CG2	1:Az:497:MET:N	2.67	0.57
1:Az:590:LEU:HD21	1:Az:605:LYS:HE3	1.85	0.57
2:Ag:306:LEU:HD23	2:Ag:306:LEU:C	2.29	0.57
4:AK:64:TRP:O	4:AK:65:ARG:HG3	2.04	0.57
8:AS:120:HIS:CD2	8:AS:124:ARG:HG3	2.39	0.57
11:AL:97:ARG:HG2	11:AL:98:LYS:CA	2.34	0.57
15:AB:37:ALA:O	15:AB:38:MET:C	2.43	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:53:GLN:HG2	15:AB:56:LYS:HB2	1.86	0.57
17:AV:80:SER:HB2	17:AV:81:LYS:CE	2.34	0.57
18:AY:10:ARG:HG2	18:AY:24:VAL:CB	2.20	0.57
23:AD:59:LEU:CG	23:AD:60:GLY:H	2.16	0.57
23:AD:70:THR:HA	23:AD:86:LEU:HD11	1.87	0.57
28:AC:207:ALA:HB3	28:AC:210:PRO:CD	2.35	0.57
33:AI:142:SER:HB3	33:AI:143:LYS:HB2	0.62	0.57
34:AQ:18:THR:HB	34:AQ:75:GLY:H	1.70	0.57
36:B2:320:G:H2'	36:B2:321:C:O5'	2.05	0.57
36:B2:1242:U:C5	36:B2:1520:G:C8	2.92	0.57
38:Cz:28:PHE:HB2	38:Cz:29:LEU:C	2.28	0.57
39:Cq:143:ILE:HG13	39:Cq:160:LEU:CD2	2.35	0.57
39:Cq:155:LEU:CD1	39:Cq:155:LEU:O	2.53	0.57
39:Cq:236:SER:CA	39:Cq:238:PRO:HD2	2.24	0.57
40:CK:49:ALA:N	40:CK:52:ASP:OD2	2.38	0.57
40:CK:80:LEU:HD23	40:CK:83:LYS:CD	2.34	0.57
40:CK:97:ASN:N	40:CK:98:ILE:HA	2.19	0.57
40:CK:97:ASN:N	40:CK:98:ILE:HG12	2.20	0.57
41:CO:195:VAL:CG1	44:CM:115:ALA:O	2.53	0.57
44:CM:6:PHE:HA	52:CS:152:PHE:O	2.04	0.57
44:CM:32:ASP:CG	44:CM:35:ARG:HD2	2.28	0.57
47:CI:201:PRO:C	47:CI:202:SER:OG	2.44	0.57
49:CQ:5:ILE:HG21	49:CQ:7:HIS:O	2.04	0.57
49:CQ:18:PRO:O	49:CQ:20:SER:N	2.37	0.57
49:CQ:22:ASP:OD2	74:CC:33:ARG:NE	2.36	0.57
51:CA:77:ILE:HD11	51:CA:128:ARG:NH1	2.17	0.57
51:CA:118:GLU:HG3	51:CA:119:LYS:H	1.65	0.57
55:CU:48:LYS:HA	55:CU:52:LYS:C	2.28	0.57
57:CY:89:LYS:HD3	57:CY:89:LYS:C	2.27	0.57
58:CW:23:ARG:NH1	58:CW:29:PHE:CD2	2.68	0.57
59:CZ:48:ARG:NH2	85:A5:2575:U:C5	2.72	0.57
59:CZ:123:LYS:O	59:CZ:124:THR:OG1	2.19	0.57
60:Cr:76:SER:N	60:Cr:79:ARG:CZ	2.63	0.57
60:Cr:78:VAL:HG21	60:Cr:82:ILE:CB	2.32	0.57
63:CB:285:TYR:CZ	63:CB:334:LYS:HG3	2.39	0.57
69:Cg:20:THR:CG2	69:Cg:32:TYR:CE2	2.87	0.57
74:CC:85:HIS:N	74:CC:87:SER:N	2.53	0.57
77:Cp:50:ARG:CD	77:Cp:54:ILE:HD12	1.89	0.57
81:CE:45:SER:HB2	81:CE:51:VAL:O	2.04	0.57
81:CE:55:GLY:O	81:CE:65:ARG:NH1	2.38	0.57
81:CE:79:LYS:C	81:CE:80:VAL:HG23	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:83:LYS:CB	81:CE:84:LYS:HA	2.24	0.57
82:CG:30:PRO:HB2	82:CG:31:LEU:HD13	1.85	0.57
82:CG:207:VAL:CG2	82:CG:215:LEU:CD1	2.82	0.57
83:Ct:32:ILE:CD1	83:Ct:39:VAL:CG2	2.82	0.57
84:Cu:7:TYR:CD1	84:Cu:18:PRO:HB3	2.40	0.57
84:Cv:38:ARG:O	84:Cv:42:VAL:HG23	2.03	0.57
85:A5:2621:A:H61	85:A5:2635:U:H3	1.50	0.57
1:Az:3:ASN:C	1:Az:46:ILE:HA	2.29	0.57
1:Az:42:LYS:NZ	1:Az:79:TYR:OH	2.38	0.57
1:Az:739:ARG:HD2	1:Az:821:PRO:O	2.05	0.57
2:Ag:65:PHE:CZ	12:AR:29:HIS:CD2	2.91	0.57
2:Ag:119:GLN:OE1	2:Ag:179:LEU:HD13	2.04	0.57
2:Ag:258:ILE:HD11	2:Ag:267:VAL:CG1	2.35	0.57
6:AX:105:PHE:HB3	6:AX:112:VAL:HG21	1.86	0.57
8:AS:93:GLY:HA3	13:AP:18:ARG:C	2.30	0.57
13:AP:70:MET:SD	79:CJ:93:GLU:OE2	2.63	0.57
15:AB:44:ILE:HD11	15:AB:86:LEU:HD13	1.86	0.57
18:AY:20:ARG:CG	18:AY:74:MET:HE1	2.25	0.57
21:Ab:37:CYS:O	21:Ab:39:GLY:N	2.36	0.57
23:AD:74:GLN:NE2	23:AD:75:LYS:CD	2.67	0.57
23:AD:93:THR:O	23:AD:93:THR:HG23	2.05	0.57
24:Ae:46:VAL:HG22	24:Ae:47:PRO:N	2.18	0.57
26:AJ:87:LEU:HD12	26:AJ:91:LYS:HD3	1.87	0.57
29:AG:185:LEU:HA	29:AG:188:LYS:HE3	1.86	0.57
29:AG:192:ILE:HG13	29:AG:193:ALA:N	2.18	0.57
30:AF:42:LYS:HB2	30:AF:46:ALA:N	2.19	0.57
30:AF:53:ALA:C	34:AQ:125:ARG:NH2	2.61	0.57
31:AH:117:PRO:HD2	31:AH:120:ARG:CD	2.35	0.57
35:Ah:148:GLY:C	35:Ah:150:GLU:N	2.61	0.57
36:B2:64:A:H2	36:B2:66:G:C8	2.22	0.57
36:B2:910:G:OP1	50:CR:173:ARG:HB2	2.03	0.57
38:Cz:65:VAL:CB	38:Cz:147:LYS:HE3	2.35	0.57
38:Cz:186:ALA:O	38:Cz:190:LEU:HG	2.05	0.57
39:Cq:12:ASN:HB3	39:Cq:16:LYS:CE	2.35	0.57
39:Cq:25:PRO:CG	39:Cq:92:LYS:C	2.76	0.57
39:Cq:130:LEU:C	40:CK:35:LEU:HD21	2.30	0.57
39:Cq:277:ALA:O	39:Cq:280:PRO:HD2	2.02	0.57
40:CK:130:LYS:NZ	40:CK:158:GLY:HA3	2.20	0.57
41:CO:193:THR:O	41:CO:196:LEU:N	2.38	0.57
45:Ca:59:LYS:CA	49:CQ:172:ARG:NH2	2.66	0.57
47:CI:56:GLU:OE1	47:CI:161:GLY:HA3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:175:LYS:C	47:CI:176:PHE:CD1	2.76	0.57
49:CQ:58:ARG:N	49:CQ:59:PRO:CD	2.67	0.57
50:CR:94:THR:CA	50:CR:97:ARG:CD	2.77	0.57
50:CR:133:LYS:CG	50:CR:137:ILE:HD13	2.34	0.57
52:CS:32:ILE:HG21	52:CS:43:ARG:HB2	1.87	0.57
52:CS:149:LYS:O	52:CS:150:ILE:HB	2.04	0.57
55:CU:33:ILE:CG1	55:CU:96:LEU:CD2	2.83	0.57
58:CW:14:TYR:CE1	63:CB:367:PHE:CZ	2.92	0.57
60:Cr:89:THR:HB	81:CE:110:ARG:HB3	1.85	0.57
63:CB:89:ILE:HD12	63:CB:89:ILE:C	2.29	0.57
65:Cc:29:LEU:CD1	65:Cc:87:LYS:HG3	2.34	0.57
66:Cd:18:ASN:O	66:Cd:20:VAL:C	2.48	0.57
68:Cf:51:TYR:CZ	68:Cf:68:ARG:HB2	2.39	0.57
68:Cf:84:VAL:HG12	68:Cf:85:ARG:N	2.19	0.57
69:Cg:66:ARG:HE	85:A5:2539:C:H5''	1.70	0.57
73:Cl:6:THR:O	73:Cl:6:THR:HG23	2.03	0.57
74:CC:32:ILE:HD12	74:CC:130:ALA:HB2	1.86	0.57
74:CC:110:ARG:HD2	74:CC:113:ARG:NE	2.17	0.57
74:CC:231:ASN:OD1	74:CC:233:SER:OG	2.22	0.57
74:CC:307:LYS:O	74:CC:310:HIS:HE1	1.87	0.57
79:CJ:85:LYS:HD2	79:CJ:115:LEU:HD13	1.86	0.57
81:CE:65:ARG:NH1	81:CE:65:ARG:CG	2.43	0.57
82:CG:190:LEU:CB	82:CG:199:CYS:HB2	2.33	0.57
83:Ct:15:ILE:CG1	84:Cv:5:ALA:CB	2.83	0.57
85:A5:939:G:H2'	85:A5:940:C:C6	2.38	0.57
85:A5:1218:G:H3'	85:A5:1219:G:H5''	1.87	0.57
87:A8:103:A:C8	87:A8:104:A:C8	2.93	0.57
1:Az:49:ALA:N	1:Az:55:ARG:HH22	2.03	0.57
1:Az:373:TYR:CE2	1:Az:375:GLY:HA3	2.40	0.57
1:Az:587:SER:HB3	1:Az:735:THR:CG2	2.34	0.57
1:Az:597:ASN:HB3	1:Az:599:HIS:ND1	2.20	0.57
2:Ag:76:GLN:O	2:Ag:77:PHE:HD1	1.88	0.57
2:Ag:276:SER:C	2:Ag:277:THR:O	2.41	0.57
4:AK:1:MET:N	4:AK:2:LEU:O	2.33	0.57
6:AX:5:ARG:HA	11:AL:101:ARG:NH1	2.17	0.57
7:AM:45:ARG:HH11	35:Ah:303:LYS:HG2	1.70	0.57
7:AM:76:LEU:C	7:AM:128:PHE:CZ	2.83	0.57
8:AS:58:GLU:CB	8:AS:59:LEU:HD13	2.34	0.57
8:AS:85:ASN:ND2	8:AS:98:VAL:H	2.03	0.57
8:AS:120:HIS:CE1	13:AP:123:TYR:CD2	2.55	0.57
13:AP:22:LEU:HA	13:AP:25:LEU:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:49:LEU:CA	13:AP:51:ARG:CD	2.83	0.57
15:AB:58:ALA:N	82:CG:264:LYS:HE3	2.20	0.57
15:AB:120:MET:HB2	15:AB:142:PHE:HE1	1.70	0.57
16:AA:30:LEU:CD1	16:AA:38:ILE:HD12	2.24	0.57
16:AA:76:VAL:HG12	16:AA:87:VAL:HG12	1.86	0.57
17:AV:18:SER:O	17:AV:72:LEU:HD21	2.05	0.57
17:AV:49:GLN:O	17:AV:50:PHE:O	2.23	0.57
18:AY:63:HIS:CG	18:AY:64:PHE:CD1	2.88	0.57
22:Ac:60:GLU:OE2	30:AF:204:ARG:HD3	1.96	0.57
23:AD:55:THR:HA	23:AD:58:VAL:CG2	2.35	0.57
24:Ae:5:SER:C	24:Ae:6:LEU:HD23	2.30	0.57
24:Ae:51:LYS:O	24:Ae:52:LYS:CB	2.53	0.57
28:AC:108:LYS:HE2	28:AC:233:LEU:HD21	1.84	0.57
28:AC:251:LEU:CD2	28:AC:251:LEU:C	2.78	0.57
29:AG:120:ASP:N	29:AG:120:ASP:OD1	2.38	0.57
29:AG:131:ARG:HD3	58:CW:80:ARG:HB3	1.86	0.57
32:AW:128:PHE:CZ	32:AW:130:PHE:HE2	2.22	0.57
34:AQ:19:ALA:CB	34:AQ:75:GLY:HA3	2.33	0.57
34:AQ:50:LYS:CA	34:AQ:53:GLU:HG3	2.34	0.57
34:AQ:92:LEU:O	34:AQ:96:TYR:HD2	1.87	0.57
38:Cz:67:VAL:HA	38:Cz:111:LEU:HB3	1.87	0.57
38:Cz:160:LYS:HD3	38:Cz:162:VAL:HG23	1.87	0.57
38:Cz:194:LEU:HD23	38:Cz:200:ASN:CG	2.29	0.57
39:Cq:6:ARG:NE	39:Cq:10:LYS:HE3	2.18	0.57
40:CK:78:SER:O	40:CK:81:ILE:HG12	2.05	0.57
42:CL:142:GLU:O	42:CL:143:GLU:O	2.23	0.57
44:CM:25:VAL:CB	44:CM:38:VAL:CG1	2.82	0.57
45:Ca:73:VAL:HG22	45:Ca:108:TYR:CZ	2.18	0.57
45:Ca:80:THR:HG22	49:CQ:90:VAL:HG11	1.86	0.57
47:CI:38:ARG:HG2	47:CI:83:ASP:CB	2.34	0.57
47:CI:100:ASN:C	47:CI:101:LYS:O	2.46	0.57
48:CD:268:ARG:CG	48:CD:268:ARG:NH1	2.30	0.57
49:CQ:25:LEU:HD12	49:CQ:28:LEU:HD11	1.86	0.57
49:CQ:151:HIS:HB2	49:CQ:166:TYR:CE2	2.40	0.57
51:CA:112:ILE:HD12	77:Cp:79:VAL:HG13	1.86	0.57
51:CA:114:CYS:O	51:CA:115:CYS:C	2.48	0.57
54:CP:49:LYS:CE	54:CP:92:LEU:HD21	2.35	0.57
54:CP:64:ASN:O	54:CP:80:GLN:OE1	2.23	0.57
55:CU:48:LYS:CE	55:CU:52:LYS:CG	2.79	0.57
55:CU:59:GLY:O	55:CU:61:VAL:HG13	2.04	0.57
55:CU:121:GLU:O	55:CU:122:GLU:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:57:GLN:H	56:CX:58:PRO:HD2	1.60	0.57
57:CY:74:TYR:HB2	57:CY:81:TYR:CE2	2.39	0.57
57:CY:110:LYS:CG	57:CY:115:ARG:NH1	2.62	0.57
59:CZ:52:LYS:O	59:CZ:52:LYS:CG	2.47	0.57
59:CZ:84:ARG:HD3	69:Cg:99:GLU:OE2	2.05	0.57
61:Ch:78:TYR:O	61:Ch:84:ARG:NH2	2.36	0.57
62:Cb:37:PRO:O	62:Cb:39:PHE:CA	2.53	0.57
66:Cd:41:ARG:C	66:Cd:43:PRO:HD2	2.28	0.57
67:Ce:5:ARG:HG2	67:Ce:93:LYS:CA	2.05	0.57
69:Cg:69:LYS:HA	69:Cg:72:LYS:HZ2	1.64	0.57
70:Ci:9:VAL:HG22	70:Ci:10:GLY:N	2.20	0.57
74:CC:156:ASP:OD1	74:CC:255:SER:HB3	2.05	0.57
74:CC:354:ALA:O	74:CC:357:ALA:CB	2.46	0.57
75:Cm:106:ARG:CD	75:Cm:106:ARG:N	2.67	0.57
77:Cp:35:ALA:C	77:Cp:36:LYS:HG3	2.30	0.57
77:Cp:53:GLY:HA2	77:Cp:67:GLY:O	2.04	0.57
78:Co:55:ILE:HD11	78:Co:56:PHE:O	2.03	0.57
80:CH:34:LEU:CD2	80:CH:150:ASP:OD2	2.51	0.57
81:CE:54:ILE:O	81:CE:62:MET:C	2.48	0.57
81:CE:179:LEU:HG	81:CE:247:LYS:HZ1	1.68	0.57
82:CG:35:ARG:HA	82:CG:36:PRO:CD	2.35	0.57
82:CG:104:PRO:O	82:CG:105:GLU:CG	2.39	0.57
82:CG:121:LYS:HB2	82:CG:129:PRO:CG	2.35	0.57
82:CG:152:ALA:CA	82:CG:205:THR:CG2	2.79	0.57
86:A7:28:C:H1'	86:A7:54:A:H61	1.70	0.57
1:Az:154:VAL:CA	1:Az:205:ILE:HD11	2.33	0.57
1:Az:228:PHE:CE1	1:Az:231:MET:CE	2.88	0.57
1:Az:552:LEU:HD12	1:Az:555:GLU:OE1	2.04	0.57
2:Ag:55:PRO:HB2	34:AQ:102:GLU:OE1	1.97	0.57
2:Ag:282:GLU:OE2	2:Ag:282:GLU:C	2.48	0.57
5:AO:75:MET:SD	5:AO:114:SER:O	2.63	0.57
5:AO:142:ARG:HH11	20:Aa:27:ALA:HB1	1.69	0.57
7:AM:28:HIS:O	7:AM:29:ASP:CB	2.52	0.57
8:AS:47:LYS:HZ1	8:AS:78:LYS:HB3	1.70	0.57
10:AN:53:ILE:HD12	21:Ab:52:THR:CG2	2.13	0.57
10:AN:53:ILE:HD11	21:Ab:52:THR:HG22	1.86	0.57
10:AN:87:ASP:CG	10:AN:129:TYR:OH	2.45	0.57
11:AL:22:ARG:CD	33:AI:154:LYS:O	2.53	0.57
13:AP:41:GLN:NE2	13:AP:45:LEU:CD1	2.67	0.57
13:AP:56:LEU:HD22	13:AP:78:THR:CG2	2.34	0.57
13:AP:98:ASN:CG	13:AP:120:SER:HB2	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:29:LYS:C	14:AT:30:VAL:HG13	2.29	0.57
14:AT:40:ALA:O	14:AT:43:LYS:HB2	2.05	0.57
14:AT:85:ASN:CB	14:AT:88:MET:HB2	2.35	0.57
16:AA:57:LYS:HE2	17:AV:70:LEU:HD21	1.85	0.57
17:AV:55:ILE:HG22	17:AV:60:ARG:HG3	1.87	0.57
18:AY:92:ALA:C	18:AY:97:TYR:O	2.47	0.57
26:AJ:78:LEU:HD23	26:AJ:97:ILE:HD11	1.86	0.57
26:AJ:81:LEU:CD1	26:AJ:97:ILE:CD1	2.82	0.57
28:AC:241:PHE:O	28:AC:244:ILE:HG12	2.05	0.57
29:AG:35:GLU:C	29:AG:36:VAL:CG2	2.77	0.57
29:AG:159:ARG:HH22	29:AG:161:PRO:CA	2.18	0.57
30:AF:59:LYS:HD3	30:AF:62:ARG:CD	2.23	0.57
31:AH:99:ARG:O	31:AH:100:ILE:O	2.23	0.57
33:AI:48:VAL:HG11	33:AI:54:LYS:HE3	1.87	0.57
36:B2:530:U:C5	36:B2:531:A:C4	2.93	0.57
38:Cz:36:ILE:HD11	38:Cz:201:VAL:CB	2.33	0.57
38:Cz:65:VAL:HB	38:Cz:147:LYS:CD	2.35	0.57
38:Cz:80:VAL:HG11	38:Cz:147:LYS:CB	2.21	0.57
38:Cz:82:ILE:HG23	38:Cz:84:HIS:H	1.70	0.57
38:Cz:162:VAL:HB	38:Cz:164:CYS:SG	2.44	0.57
39:Cq:95:LEU:CD2	83:Cs:49:LYS:NZ	2.67	0.57
39:Cq:242:ILE:CB	83:Ct:63:VAL:HG21	2.34	0.57
39:Cq:245:TYR:CZ	83:Ct:60:ILE:CD1	2.70	0.57
40:CK:2:PRO:HD3	40:CK:6:ASP:CB	2.33	0.57
40:CK:22:VAL:HG21	40:CK:48:LYS:HE3	1.86	0.57
40:CK:39:PRO:HG2	40:CK:43:GLY:H	1.70	0.57
40:CK:62:LEU:CD1	40:CK:64:ILE:HD11	2.34	0.57
40:CK:92:ARG:CA	40:CK:95:GLN:OE1	2.32	0.57
40:CK:114:ARG:CB	40:CK:129:ILE:HG22	2.35	0.57
41:CO:122:ALA:HA	52:CS:161:ARG:CB	2.35	0.57
43:CV:96:LEU:H	43:CV:96:LEU:HD23	1.70	0.57
44:CM:120:ASN:HA	44:CM:123:ILE:CG2	2.35	0.57
45:Ca:37:GLY:CA	45:Ca:45:PHE:CE2	2.86	0.57
45:Ca:89:ASN:ND2	45:Ca:90:ALA:N	2.43	0.57
46:CN:104:GLU:CG	46:CN:161:MET:SD	2.92	0.57
47:CI:91:LEU:HD12	47:CI:135:ILE:CG2	2.33	0.57
47:CI:176:PHE:N	47:CI:176:PHE:HD1	1.95	0.57
49:CQ:26:ARG:NH1	60:Cr:11:ARG:HH21	1.88	0.57
52:CS:120:ARG:O	52:CS:122:HIS:N	2.38	0.57
53:CT:33:ILE:C	53:CT:34:TYR:HD2	2.13	0.57
53:CT:144:ASN:ND2	53:CT:144:ASN:O	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:30:ARG:NH1	54:CP:62:ARG:NH2	2.53	0.57
55:CU:34:MET:HE1	55:CU:39:PHE:CG	2.39	0.57
59:CZ:87:VAL:HG13	59:CZ:127:ASN:ND2	2.20	0.57
59:CZ:95:VAL:HG13	59:CZ:110:ALA:HA	1.86	0.57
63:CB:189:THR:HG23	63:CB:192:GLU:CG	2.34	0.57
66:Cd:33:ILE:HG22	66:Cd:33:ILE:O	2.03	0.57
69:Cg:57:ARG:NE	69:Cg:59:VAL:HB	2.19	0.57
74:CC:5:ARG:HG2	74:CC:24:LEU:HB2	1.83	0.57
77:Cp:36:LYS:NZ	77:Cp:46:LYS:HZ1	2.03	0.57
79:CJ:26:VAL:HB	79:CJ:33:LEU:HD22	1.83	0.57
79:CJ:110:GLN:O	79:CJ:111:GLU:CG	2.52	0.57
81:CE:138:ARG:HH21	81:CE:170:SER:C	2.13	0.57
82:CG:91:THR:O	82:CG:94:GLN:N	2.38	0.57
82:CG:227:ASN:O	82:CG:230:TYR:HB3	2.03	0.57
85:A5:228:C:H2'	85:A5:229:G:C8	2.40	0.57
1:Az:58:ASP:CB	1:Az:69:THR:HA	2.33	0.57
1:Az:154:VAL:HA	1:Az:205:ILE:HD11	1.86	0.57
1:Az:165:LEU:HD11	1:Az:305:MET:CE	2.15	0.57
1:Az:536:CYS:C	1:Az:537:ILE:HG23	2.30	0.57
2:Ag:96:THR:HG23	2:Ag:96:THR:O	2.05	0.57
2:Ag:172:LYS:O	2:Ag:173:LEU:HD23	2.05	0.57
2:Ag:281:ALA:O	2:Ag:282:GLU:HB3	2.03	0.57
4:AK:43:LEU:H	4:AK:46:MET:CB	2.18	0.57
4:AK:61:GLN:O	4:AK:67:PHE:HA	2.04	0.57
8:AS:42:HIS:HD2	14:AT:45:LEU:CG	1.91	0.57
8:AS:89:ASP:O	8:AS:90:VAL:HG23	2.05	0.57
11:AL:8:ARG:HD2	33:AI:85:ALA:HB1	1.85	0.57
11:AL:22:ARG:NE	33:AI:157:LYS:HB2	2.19	0.57
13:AP:67:ALA:HB2	13:AP:73:PRO:CB	2.35	0.57
14:AT:5:THR:CG2	14:AT:7:LYS:HB2	2.35	0.57
16:AA:24:HIS:HB2	16:AA:49:ILE:O	2.04	0.57
17:AV:19:ALA:CB	17:AV:59:ILE:CD1	2.76	0.57
17:AV:42:VAL:O	17:AV:43:THR:CB	2.52	0.57
19:AZ:105:ALA:O	19:AZ:106:GLN:HG3	2.05	0.57
23:AD:141:LYS:HE3	23:AD:179:GLN:NE2	2.20	0.57
26:AJ:65:GLU:HA	26:AJ:70:ARG:HD3	1.87	0.57
27:AE:159:THR:C	27:AE:160:ILE:HG13	2.30	0.57
28:AC:78:LEU:HB3	28:AC:82:TYR:CE2	2.40	0.57
30:AF:47:LYS:CB	34:AQ:117:ARG:HH22	2.16	0.57
31:AH:106:ARG:CZ	36:B2:861:A:C2	2.88	0.57
33:AI:22:HIS:CD2	33:AI:25:ARG:HH11	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:896:U:C2'	36:B2:897:U:H5'	2.34	0.57
36:B2:1412:C:C2'	36:B2:1413:G:C8	2.85	0.57
38:Cz:212:LYS:H	38:Cz:212:LYS:CD	2.05	0.57
39:Cq:25:PRO:HG3	39:Cq:92:LYS:HB2	1.75	0.57
39:Cq:66:ARG:O	39:Cq:69:LEU:HD22	2.05	0.57
39:Cq:248:VAL:HG12	84:Cv:4:VAL:HG11	1.87	0.57
40:CK:1:MET:H2	40:CK:6:ASP:HB2	1.69	0.57
42:CL:50:PRO:CD	42:CL:51:ALA:HB1	2.31	0.57
42:CL:84:ALA:HB2	42:CL:117:LEU:CD1	2.35	0.57
43:CV:83:ARG:NH2	43:CV:100:ASP:OD1	2.38	0.57
43:CV:113:LYS:HG3	43:CV:114:GLY:N	2.19	0.57
44:CM:35:ARG:C	44:CM:52:PHE:CE2	2.83	0.57
45:Ca:109:TYR:CD1	45:Ca:109:TYR:N	2.53	0.57
45:Ca:129:PHE:CE1	45:Ca:146:LEU:HD23	2.39	0.57
46:CN:58:GLY:N	46:CN:139:HIS:NE2	2.53	0.57
46:CN:66:VAL:HG12	46:CN:67:ARG:N	2.19	0.57
46:CN:79:ALA:O	46:CN:87:HIS:CD2	2.58	0.57
48:CD:253:TYR:CG	48:CD:254:GLU:N	2.72	0.57
49:CQ:34:PHE:CG	74:CC:293:LEU:CD2	2.81	0.57
49:CQ:61:LEU:HD23	49:CQ:141:GLY:CA	2.35	0.57
51:CA:254:GLU:CB	51:CA:255:LYS:HB3	2.33	0.57
52:CS:78:PHE:CZ	52:CS:102:THR:CG2	2.88	0.57
53:CT:65:TYR:HB3	53:CT:75:VAL:HG23	1.86	0.57
56:CX:67:ARG:HG2	56:CX:70:LYS:HE2	1.86	0.57
57:CY:3:PHE:CZ	74:CC:222:ARG:HD3	2.33	0.57
57:CY:22:PRO:CG	57:CY:25:ILE:CG1	2.83	0.57
57:CY:60:GLY:O	57:CY:63:LYS:HB2	2.05	0.57
57:CY:82:ILE:HG22	57:CY:83:GLU:N	2.19	0.57
58:CW:23:ARG:NH2	58:CW:29:PHE:CE2	2.72	0.57
60:Cr:54:ALA:CB	60:Cr:57:GLY:HA2	2.34	0.57
63:CB:40:PRO:O	63:CB:41:VAL:CG2	2.49	0.57
63:CB:246:ARG:NH1	85:A5:4523:A:O3'	2.38	0.57
63:CB:301:ASN:OD1	63:CB:301:ASN:O	2.22	0.57
65:Cc:14:ILE:N	65:Cc:17:ARG:HE	2.01	0.57
68:Cf:5:LEU:O	68:Cf:6:TRP:CD1	2.58	0.57
68:Cf:23:GLU:O	68:Cf:91:ASN:CG	2.48	0.57
74:CC:34:PRO:O	74:CC:35:ASP:C	2.48	0.57
74:CC:39:PHE:CE1	74:CC:115:VAL:HG13	2.39	0.57
75:Cm:105:PRO:O	75:Cm:106:ARG:C	2.43	0.57
80:CH:25:VAL:HG22	80:CH:38:PHE:CE2	2.39	0.57
82:CG:163:PRO:HB2	82:CG:166:LEU:HG	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:253:LEU:O	82:CG:253:LEU:HD23	2.04	0.57
83:Ct:7:LEU:O	83:Ct:11:TYR:CD2	2.57	0.57
83:Ct:41:PRO:CA	83:Ct:44:PRO:CG	2.82	0.57
84:Cv:20:ALA:CA	84:Cv:43:ILE:HD11	2.35	0.57
1:Az:160:MET:SD	1:Az:178:PHE:CZ	2.98	0.56
1:Az:312:THR:HG23	1:Az:313:ALA:N	2.20	0.56
1:Az:477:GLN:H	1:Az:477:GLN:NE2	2.01	0.56
1:Az:672:LEU:CD1	1:Az:675:ILE:HD11	2.29	0.56
4:AK:64:TRP:HE1	23:AD:23:GLU:CG	2.18	0.56
7:AM:44:LYS:HD3	35:Ah:303:LYS:HZ3	1.69	0.56
8:AS:22:GLY:O	8:AS:57:GLY:N	2.35	0.56
10:AN:11:LEU:HD12	10:AN:11:LEU:O	2.05	0.56
11:AL:17:PHE:CD1	11:AL:18:GLN:CB	2.87	0.56
14:AT:76:THR:CA	14:AT:95:GLY:O	2.53	0.56
16:AA:115:ALA:O	16:AA:117:ARG:HG2	2.05	0.56
18:AY:54:VAL:CG2	18:AY:79:LEU:HD21	2.35	0.56
18:AY:99:LYS:C	18:AY:99:LYS:NZ	2.63	0.56
18:AY:114:MET:C	18:AY:124:ASN:HD22	2.06	0.56
19:AZ:92:LEU:CD2	19:AZ:97:ILE:HG13	2.29	0.56
21:Ab:26:GLN:HG3	21:Ab:27:SER:CA	2.35	0.56
23:AD:47:GLU:CG	23:AD:85:GLU:CG	2.71	0.56
26:AJ:89:GLU:O	26:AJ:91:LYS:O	2.23	0.56
28:AC:65:LYS:HB2	28:AC:273:LEU:CB	2.34	0.56
29:AG:227:GLN:HA	29:AG:230:LYS:HD2	1.87	0.56
30:AF:59:LYS:CD	30:AF:62:ARG:HD3	2.23	0.56
33:AI:48:VAL:HG11	33:AI:54:LYS:HB2	1.86	0.56
33:AI:76:THR:CG2	33:AI:77:ARG:H	2.17	0.56
35:Ah:140:LYS:O	35:Ah:142:LEU:O	2.23	0.56
36:B2:68:A:H61	36:B2:81:U:H3	1.53	0.56
38:Cz:147:LYS:NZ	38:Cz:151:VAL:HG23	2.19	0.56
38:Cz:167:VAL:HG22	38:Cz:168:ALA:N	2.19	0.56
39:Cq:168:GLY:N	39:Cq:171:GLU:CD	2.57	0.56
39:Cq:254:GLU:OE1	84:Cv:54:VAL:HG22	2.00	0.56
39:Cq:269:LEU:CA	39:Cq:272:PRO:HG3	2.26	0.56
45:Ca:65:ARG:O	45:Ca:66:ASN:OD1	2.22	0.56
46:CN:119:TYR:CZ	46:CN:131:GLU:OE1	2.57	0.56
48:CD:66:TYR:HD2	48:CD:66:TYR:N	1.96	0.56
48:CD:123:VAL:HA	48:CD:248:ARG:NH1	2.20	0.56
48:CD:164:LYS:NZ	48:CD:168:ASP:OD1	2.37	0.56
49:CQ:165:PRO:O	49:CQ:167:VAL:N	2.36	0.56
50:CR:134:ASN:CG	50:CR:135:LYS:N	2.62	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:47:ASP:OD1	51:CA:60:LYS:HB2	2.03	0.56
53:CT:68:THR:HG1	53:CT:71:ALA:CA	2.17	0.56
53:CT:154:ILE:HD12	53:CT:154:ILE:H	1.69	0.56
62:Cb:77:LYS:C	62:Cb:78:PRO:CD	2.70	0.56
67:Ce:9:LYS:HB2	67:Ce:9:LYS:HZ2	1.68	0.56
68:Cf:32:GLY:CA	68:Cf:34:TYR:CE1	2.83	0.56
72:Ck:25:ILE:HG12	72:Ck:34:PHE:CD2	2.40	0.56
74:CC:260:LEU:O	74:CC:264:TYR:HB2	2.04	0.56
76:Cn:5:TRP:HE3	76:Cn:5:TRP:HA	1.70	0.56
77:Cp:50:ARG:HH11	77:Cp:54:ILE:HD12	0.74	0.56
79:CJ:32:ARG:CG	79:CJ:35:ARG:HH22	2.18	0.56
79:CJ:111:GLU:CB	79:CJ:113:ILE:HD11	2.34	0.56
82:CG:50:ASP:C	82:CG:51:LEU:HD23	2.29	0.56
85:A5:450:G:H1	85:A5:1297:U:H3	1.53	0.56
85:A5:1577:G:H3'	85:A5:1577:G:N3	2.19	0.56
1:Az:579:TYR:CD1	1:Az:740:LEU:HD11	2.39	0.56
2:Ag:284:PRO:HB2	2:Ag:304:ASP:N	2.20	0.56
5:AO:38:ASN:O	5:AO:68:GLU:HB3	2.04	0.56
5:AO:39:ASP:N	5:AO:69:SER:HB3	2.20	0.56
6:AX:67:ARG:CG	6:AX:115:ILE:HG12	2.32	0.56
10:AN:4:MET:CE	10:AN:124:ARG:NH2	2.68	0.56
10:AN:139:TRP:HZ3	10:AN:141:TYR:N	2.03	0.56
12:AR:98:VAL:HG22	16:AA:19:LEU:CD1	2.35	0.56
13:AP:49:LEU:HD12	13:AP:50:ARG:N	2.20	0.56
16:AA:133:PRO:CD	16:AA:134:LEU:N	2.51	0.56
17:AV:43:THR:O	17:AV:44:GLY:C	2.48	0.56
27:AE:72:ILE:CD1	27:AE:82:TYR:CE2	2.88	0.56
27:AE:129:ILE:CG2	27:AE:139:LEU:HD23	2.35	0.56
27:AE:204:SER:O	27:AE:205:PHE:CB	2.51	0.56
28:AC:84:PHE:CZ	28:AC:262:THR:HG21	2.40	0.56
29:AG:57:ASP:CG	29:AG:98:ARG:HG3	2.29	0.56
30:AF:44:LYS:CA	30:AF:45:TYR:CD1	2.88	0.56
31:AH:109:ARG:CZ	31:AH:111:LYS:HD2	2.35	0.56
31:AH:149:ASP:C	31:AH:151:SER:H	2.13	0.56
32:AW:15:ASN:CG	32:AW:19:LYS:HE3	2.29	0.56
33:AI:154:LYS:CE	33:AI:154:LYS:O	2.53	0.56
33:AI:165:GLN:HE21	33:AI:171:LEU:HD22	1.70	0.56
38:Cz:80:VAL:HG13	38:Cz:148:VAL:HG22	1.87	0.56
39:Cq:81:HIS:HD2	39:Cq:191:GLN:HB2	1.70	0.56
39:Cq:113:ALA:HB1	39:Cq:169:ALA:CA	2.34	0.56
41:CO:20:ALA:HB1	41:CO:87:MET:HE2	1.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:58:ILE:CG1	42:CL:157:VAL:HG12	2.35	0.56
42:CL:139:SER:OG	42:CL:142:GLU:CG	2.50	0.56
46:CN:68:ARG:HD3	46:CN:125:SER:O	2.01	0.56
46:CN:178:HIS:CA	46:CN:181:HIS:CD2	2.80	0.56
47:CI:164:LYS:HZ1	47:CI:166:HIS:CE1	2.16	0.56
49:CQ:30:LYS:CE	60:Cr:8:MET:CE	2.81	0.56
49:CQ:132:LYS:NZ	74:CC:301:ALA:HB1	2.19	0.56
49:CQ:144:LYS:CE	49:CQ:144:LYS:HA	2.35	0.56
50:CR:133:LYS:CD	50:CR:137:ILE:HD12	2.34	0.56
54:CP:131:ARG:HB2	54:CP:135:ARG:O	2.05	0.56
56:CX:71:LEU:HD12	56:CX:108:GLN:HE22	1.70	0.56
56:CX:73:HIS:O	56:CX:116:LEU:HD11	2.06	0.56
58:CW:99:GLU:O	58:CW:100:VAL:C	2.48	0.56
59:CZ:33:THR:CG2	59:CZ:36:ARG:HG3	2.35	0.56
59:CZ:51:ARG:HB3	59:CZ:65:ARG:HD2	1.86	0.56
60:Cr:111:ILE:HG21	81:CE:115:TYR:CD2	2.40	0.56
63:CB:165:HIS:CG	63:CB:180:LEU:HD11	2.39	0.56
63:CB:314:ILE:HD11	63:CB:330:PHE:CZ	2.40	0.56
65:Cc:28:VAL:HG12	65:Cc:29:LEU:N	2.20	0.56
65:Cc:69:THR:HG22	65:Cc:70:GLY:N	2.19	0.56
66:Cd:29:ILE:HG23	66:Cd:33:ILE:CD1	2.33	0.56
69:Cg:15:THR:O	69:Cg:16:ALA:C	2.44	0.56
70:CI:68:ARG:HH22	70:CI:72:PHE:HZ	1.52	0.56
72:Ck:23:VAL:HG12	72:Ck:24:LYS:N	2.19	0.56
73:Cl:16:LYS:HG2	73:Cl:49:LEU:HD11	1.87	0.56
74:CC:79:VAL:C	74:CC:81:GLY:N	2.60	0.56
74:CC:144:ILE:HG12	74:CC:249:PHE:CE1	2.40	0.56
74:CC:235:LEU:HD21	74:CC:252:TRP:HH2	1.69	0.56
80:CH:137:SER:OG	80:CH:143:GLU:HB2	2.06	0.56
84:Cu:23:ILE:CG2	84:Cu:39:LEU:HD21	2.29	0.56
85:A5:2601:A:O4'	85:A5:2601:A:N9	2.36	0.56
87:A8:102:G:C6	87:A8:104:A:C6	2.94	0.56
1:Az:60:ARG:HD2	1:Az:61:LYS:N	2.15	0.56
1:Az:290:CYS:HA	1:Az:294:LEU:HD12	1.86	0.56
1:Az:323:LEU:HD11	1:Az:335:LEU:HD11	1.86	0.56
1:Az:502:SER:OG	1:Az:811:GLN:HA	2.06	0.56
1:Az:551:GLU:HG2	1:Az:552:LEU:N	2.19	0.56
1:Az:580:ARG:NH1	1:Az:696:ASN:CB	2.67	0.56
1:Az:745:TYR:OH	1:Az:746:LEU:HB3	2.03	0.56
1:Az:759:ILE:HG23	1:Az:760:TYR:N	2.19	0.56
2:Ag:258:ILE:HD11	2:Ag:267:VAL:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ag:282:GLU:CD	2:Ag:283:PRO:N	2.63	0.56
2:Ag:285:GLN:C	2:Ag:302:TYR:CE1	2.84	0.56
3:AU:83:ARG:HB3	3:AU:85:HIS:HE1	1.68	0.56
6:AX:105:PHE:HE2	6:AX:118:VAL:O	1.77	0.56
6:AX:105:PHE:HE2	6:AX:118:VAL:C	2.13	0.56
7:AM:85:LEU:O	7:AM:89:VAL:HG23	2.05	0.56
12:AR:61:ILE:HG23	12:AR:74:GLN:NE2	2.19	0.56
12:AR:77:GLU:HG3	12:AR:80:ARG:NH2	2.20	0.56
13:AP:67:ALA:HB2	13:AP:73:PRO:HB3	1.87	0.56
13:AP:89:MET:O	13:AP:107:ILE:HD11	2.05	0.56
14:AT:16:ARG:CG	14:AT:16:ARG:NH1	2.65	0.56
15:AB:48:LEU:HD12	15:AB:48:LEU:N	1.98	0.56
15:AB:113:MET:SD	15:AB:211:PHE:HE2	2.05	0.56
16:AA:30:LEU:HD21	16:AA:35:GLU:HG2	1.77	0.56
16:AA:77:ILE:HG12	16:AA:99:ILE:HB	1.87	0.56
16:AA:189:ILE:O	16:AA:190:SER:OG	2.22	0.56
18:AY:20:ARG:HD3	18:AY:76:TYR:CE2	2.40	0.56
18:AY:23:MET:HE3	18:AY:44:LEU:HD21	1.87	0.56
19:AZ:105:ALA:C	19:AZ:106:GLN:HG3	2.30	0.56
22:Ac:47:LYS:CE	30:AF:141:VAL:CB	2.56	0.56
23:AD:48:ILE:HG23	23:AD:48:ILE:O	2.04	0.56
23:AD:168:VAL:CG1	23:AD:189:MET:SD	2.94	0.56
24:Ae:31:ARG:CZ	24:Ae:32:ALA:N	2.68	0.56
24:Ae:40:ARG:HA	24:Ae:44:ASN:CG	2.30	0.56
26:AJ:67:ASP:O	26:AJ:70:ARG:N	2.38	0.56
26:AJ:174:LYS:HG3	36:B2:560:A:C5'	2.35	0.56
27:AE:43:PRO:HG2	27:AE:46:ILE:CD1	2.34	0.56
27:AE:149:TYR:CE1	29:AG:206:ALA:HA	2.40	0.56
27:AE:230:LYS:O	27:AE:231:GLY:C	2.48	0.56
28:AC:58:LYS:O	28:AC:59:GLU:OE1	2.22	0.56
28:AC:116:THR:HG22	28:AC:118:ALA:O	1.93	0.56
29:AG:73:VAL:HG12	29:AG:74:ARG:N	2.20	0.56
31:AH:192:PHE:O	31:AH:193:GLN:O	2.23	0.56
32:AW:30:CYS:CA	32:AW:34:ILE:HD12	2.35	0.56
34:AQ:8:GLN:CG	34:AQ:99:TYR:CD1	2.47	0.56
35:Ah:291:ASP:CA	35:Ah:294:LYS:HE3	2.35	0.56
36:B2:40:A:H61	36:B2:514:U:H3	1.53	0.56
36:B2:537:C:O5'	36:B2:537:C:H6	1.88	0.56
36:B2:1131:G:H8	36:B2:1131:G:H5'	1.70	0.56
36:B2:1558:C:O2'	36:B2:1559:C:H5'	2.05	0.56
38:Cz:17:VAL:CG2	38:Cz:206:ILE:HG21	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:26:ARG:C	38:Cz:28:PHE:N	2.62	0.56
39:Cq:23:ASP:CG	39:Cq:24:TYR:HE2	2.12	0.56
39:Cq:29:ILE:HG12	39:Cq:88:PHE:CE1	2.40	0.56
40:CK:86:LYS:C	40:CK:104:ILE:HG12	2.30	0.56
41:CO:108:ILE:CG2	41:CO:160:ARG:HD3	2.31	0.56
42:CL:58:ILE:HG21	42:CL:70:VAL:CG1	2.35	0.56
42:CL:136:LYS:HD3	42:CL:138:ASP:O	2.05	0.56
43:CV:92:ASP:C	63:CB:73:VAL:HG22	2.31	0.56
43:CV:98:PHE:CZ	43:CV:122:ALA:HB2	2.40	0.56
44:CM:39:ASP:CG	44:CM:47:ARG:CB	2.77	0.56
45:Ca:89:ASN:CG	45:Ca:91:ALA:N	2.47	0.56
46:CN:56:LYS:CG	46:CN:59:TYR:CE2	2.89	0.56
46:CN:172:ARG:CZ	46:CN:174:LEU:HD11	2.24	0.56
47:CI:163:GLN:CD	47:CI:163:GLN:N	2.63	0.56
48:CD:156:GLY:N	48:CD:179:ARG:O	2.38	0.56
49:CQ:5:ILE:HG22	49:CQ:7:HIS:N	2.19	0.56
49:CQ:21:GLN:NE2	49:CQ:21:GLN:HA	2.20	0.56
49:CQ:65:ARG:O	49:CQ:69:LYS:HD3	2.06	0.56
49:CQ:75:ARG:O	49:CQ:78:LYS:CB	2.48	0.56
49:CQ:159:PRO:O	49:CQ:160:HIS:HB2	2.04	0.56
50:CR:99:MET:HE1	50:CR:127:VAL:CB	2.35	0.56
51:CA:30:ARG:HH12	51:CA:33:ASP:CG	2.13	0.56
51:CA:230:PRO:O	51:CA:231:ALA:C	2.49	0.56
54:CP:75:GLN:O	54:CP:76:TRP:HE3	1.86	0.56
55:CU:40:GLU:OE2	55:CU:70:ILE:CB	2.53	0.56
55:CU:40:GLU:HG3	55:CU:70:ILE:CD1	2.34	0.56
56:CX:79:PHE:HE2	56:CX:99:ILE:CG2	2.17	0.56
57:CY:110:LYS:O	57:CY:115:ARG:CZ	2.54	0.56
58:CW:87:LEU:C	58:CW:91:MET:CE	2.77	0.56
59:CZ:5:MET:H	59:CZ:6:LYS:HD3	1.56	0.56
59:CZ:41:ALA:N	59:CZ:77:TYR:HE1	2.03	0.56
59:CZ:76:ASN:HD21	59:CZ:78:ASN:HB2	1.62	0.56
62:Cb:10:HIS:O	62:Cb:11:ASN:CB	2.52	0.56
63:CB:11:HIS:CE1	63:CB:237:THR:HA	2.41	0.56
63:CB:257:TRP:CD1	63:CB:257:TRP:C	2.81	0.56
63:CB:305:THR:HG23	63:CB:307:TYR:N	2.21	0.56
63:CB:397:ILE:HG22	63:CB:398:ALA:O	2.05	0.56
64:CF:29:LYS:HG3	64:CF:30:ILE:CD1	2.20	0.56
64:CF:182:TYR:CG	64:CF:200:ARG:HD2	2.41	0.56
65:Cc:78:ASN:HD22	77:Cp:43:GLY:CA	2.19	0.56
65:Cc:90:ARG:NH1	77:Cp:44:LYS:HG2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:Cd:101:LYS:CB	66:Cd:102:LEU:HD12	2.20	0.56
69:Cg:57:ARG:HB2	69:Cg:71:LYS:HB3	1.87	0.56
69:Cg:59:VAL:HG13	69:Cg:60:ARG:O	2.06	0.56
70:Ci:25:ARG:HB2	70:Ci:28:ARG:NE	2.20	0.56
70:Ci:77:VAL:HG11	70:Ci:82:ARG:HB3	1.88	0.56
71:Cj:64:MET:CE	71:Cj:68:LYS:CB	2.84	0.56
71:Cj:85:LYS:O	71:Cj:85:LYS:CG	2.48	0.56
74:CC:30:ALA:HB1	74:CC:31:PRO:CD	2.36	0.56
74:CC:146:GLU:CG	74:CC:175:LYS:HE3	2.34	0.56
79:CJ:75:ARG:HH21	86:A7:40:U:H3	1.53	0.56
79:CJ:87:LEU:HD21	79:CJ:166:PHE:CE1	2.40	0.56
80:CH:49:GLY:C	80:CH:50:LYS:NZ	2.63	0.56
81:CE:83:LYS:HZ2	81:CE:86:GLU:HA	1.71	0.56
81:CE:140:LEU:HA	81:CE:191:GLN:HE22	1.71	0.56
81:CE:203:ILE:CG1	81:CE:205:ASN:O	2.53	0.56
82:CG:121:LYS:HB2	82:CG:129:PRO:HG2	1.87	0.56
82:CG:143:VAL:C	82:CG:146:LEU:HD11	2.31	0.56
82:CG:143:VAL:HG13	82:CG:146:LEU:HD11	1.84	0.56
83:Cs:12:SER:N	84:Cu:9:LEU:CD2	2.65	0.56
85:A5:4910:G:HO2'	85:A5:4911:A:H8	1.50	0.56
85:A5:4941:G:O2'	85:A5:4942:C:O4'	2.19	0.56
1:Az:207:PRO:HB2	1:Az:261:TRP:CD1	2.41	0.56
1:Az:536:CYS:O	1:Az:537:ILE:HG23	2.05	0.56
2:Ag:116:ASP:O	2:Ag:117:ASN:CB	2.53	0.56
2:Ag:147:HIS:C	2:Ag:149:GLU:H	2.12	0.56
2:Ag:173:LEU:CD2	2:Ag:189:ILE:HG12	2.35	0.56
4:AK:66:HIS:NE2	23:AD:76:ARG:CZ	2.69	0.56
5:AO:30:VAL:HG23	5:AO:32:HIS:HD2	1.68	0.56
12:AR:19:LYS:CE	23:AD:212:GLU:HG2	2.34	0.56
12:AR:42:PRO:CD	12:AR:43:SER:N	2.67	0.56
12:AR:98:VAL:CG1	12:AR:99:ASP:N	2.68	0.56
14:AT:40:ALA:CA	14:AT:43:LYS:HG2	2.35	0.56
16:AA:4:ALA:O	16:AA:8:LEU:HD22	2.05	0.56
16:AA:102:ARG:O	16:AA:104:THR:N	2.38	0.56
16:AA:106:GLY:HA3	16:AA:110:ASN:HD22	1.71	0.56
21:Ab:61:THR:HG23	21:Ab:62:VAL:C	2.31	0.56
23:AD:38:GLU:OE1	23:AD:40:ARG:NH2	2.29	0.56
23:AD:79:PHE:O	23:AD:80:PRO:C	2.48	0.56
23:AD:199:GLY:O	23:AD:201:LYS:N	2.37	0.56
25:Af:103:LEU:HD23	25:Af:105:TYR:H	1.67	0.56
26:AJ:61:LEU:CD1	26:AJ:94:LEU:HD11	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:124:HIS:HE2	36:B2:526:A:H5''	1.70	0.56
27:AE:87:MET:CE	27:AE:182:MET:HE1	2.35	0.56
28:AC:198:ALA:HB2	28:AC:223:TYR:CD2	2.40	0.56
28:AC:210:PRO:HD3	28:AC:236:PHE:CE2	2.41	0.56
29:AG:159:ARG:HA	29:AG:172:LYS:O	2.04	0.56
30:AF:15:PRO:HD3	34:AQ:56:LEU:CA	2.35	0.56
30:AF:18:LYS:NZ	30:AF:18:LYS:HB3	2.18	0.56
30:AF:122:ARG:HB2	30:AF:123:GLU:OE1	2.06	0.56
30:AF:124:ASP:CG	30:AF:125:SER:H	2.13	0.56
31:AH:50:GLU:OE2	31:AH:58:LYS:CD	2.44	0.56
31:AH:143:ARG:CD	32:AW:53:ILE:CG1	2.50	0.56
33:AI:31:ARG:HG3	33:AI:31:ARG:NH1	2.20	0.56
33:AI:140:LYS:C	33:AI:141:ARG:HG3	2.29	0.56
34:AQ:15:ARG:NH1	34:AQ:20:THR:HG21	2.19	0.56
36:B2:338:G:C5	36:B2:339:A:N7	2.73	0.56
36:B2:787:G:C3'	36:B2:788:G:H5''	2.34	0.56
36:B2:1528:G:N2	36:B2:1665:G:H21	2.03	0.56
38:Cz:101:LYS:O	38:Cz:103:LEU:HD22	2.06	0.56
39:Cq:153:GLU:OE2	40:CK:3:PRO:HA	2.05	0.56
39:Cq:228:GLN:CB	84:Cu:54:VAL:CG1	2.83	0.56
41:CO:131:PRO:HG3	52:CS:156:HIS:CE1	2.27	0.56
44:CM:12:VAL:O	44:CM:58:THR:OG1	2.17	0.56
46:CN:80:THR:OG1	46:CN:87:HIS:HA	2.06	0.56
46:CN:170:LYS:HG2	46:CN:171:SER:N	2.20	0.56
46:CN:192:TRP:C	46:CN:195:ARG:HG2	2.31	0.56
47:CI:185:VAL:C	47:CI:187:LYS:H	2.12	0.56
48:CD:163:LEU:HD12	48:CD:173:ILE:HG21	1.83	0.56
48:CD:256:LYS:O	48:CD:256:LYS:CG	2.53	0.56
49:CQ:110:ARG:HG2	49:CQ:114:LEU:CD1	2.35	0.56
53:CT:132:PRO:O	53:CT:132:PRO:CD	2.50	0.56
57:CY:52:ASP:OD1	57:CY:69:LYS:CG	2.53	0.56
60:Cr:15:SER:HG	74:CC:139:SER:C	2.13	0.56
63:CB:14:LEU:HD12	63:CB:14:LEU:N	2.19	0.56
63:CB:154:LYS:HE2	63:CB:155:LYS:HA	1.87	0.56
63:CB:306:ASP:OD1	63:CB:306:ASP:C	2.48	0.56
65:Cc:102:SER:OG	65:Cc:104:ILE:HB	2.05	0.56
66:Cd:39:LYS:HG2	85:A5:2370:A:H5''	1.86	0.56
66:Cd:114:PHE:O	66:Cd:115:LYS:HG2	2.03	0.56
67:Ce:22:ARG:CD	67:Ce:31:ILE:HG23	2.35	0.56
67:Ce:35:TRP:CE2	67:Ce:56:PRO:CG	2.87	0.56
69:Cg:61:PRO:O	69:Cg:64:LEU:HD23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Cg:64:LEU:HD22	69:Cg:64:LEU:H	1.71	0.56
74:CC:46:LYS:CB	74:CC:49:ARG:NH1	2.50	0.56
74:CC:91:ALA:CB	74:CC:92:PHE:HD2	1.98	0.56
74:CC:286:ASN:O	74:CC:287:THR:CG2	2.53	0.56
77:Cp:60:CYS:O	77:Cp:61:MET:HB2	2.05	0.56
79:CJ:22:LEU:CD2	79:CJ:130:PHE:CG	2.88	0.56
82:CG:206:GLN:O	82:CG:207:VAL:HB	2.05	0.56
83:Cs:19:ASP:CA	84:Cu:2:ARG:HD3	2.36	0.56
85:A5:4398:C:H42	85:A5:4446:U:H3	1.52	0.56
85:A5:4941:G:O2'	85:A5:4942:C:H5'	2.05	0.56
87:A8:94:G:H1'	87:A8:95:A:P	2.45	0.56
1:Az:206:ASP:CA	1:Az:212:VAL:HG23	2.35	0.56
1:Az:503:PRO:CA	1:Az:548:GLY:O	2.54	0.56
2:Ag:173:LEU:CD2	2:Ag:189:ILE:HA	2.36	0.56
3:AU:83:ARG:CZ	9:Ad:55:LEU:CD1	2.84	0.56
3:AU:101:ILE:O	3:AU:105:SER:OG	2.23	0.56
4:AK:17:LYS:HE3	35:Ah:287:GLU:OE2	2.06	0.56
11:AL:148:ALA:O	11:AL:150:GLY:O	2.23	0.56
15:AB:125:VAL:CG2	15:AB:169:MET:HG3	2.35	0.56
15:AB:179:ASN:HB3	15:AB:183:GLU:HB2	1.88	0.56
16:AA:108:PHE:CE2	16:AA:122:LEU:HD11	2.41	0.56
17:AV:9:VAL:CG1	28:AC:176:LYS:HD3	2.35	0.56
18:AY:55:ILE:CD1	18:AY:75:ILE:HD13	2.35	0.56
19:AZ:94:LYS:HE2	19:AZ:94:LYS:HA	1.88	0.56
21:Ab:49:HIS:CD2	21:Ab:49:HIS:N	2.72	0.56
26:AJ:177:ASN:CA	26:AJ:180:LYS:HB3	2.35	0.56
28:AC:64:THR:HG23	28:AC:90:GLU:CG	2.36	0.56
29:AG:35:GLU:O	29:AG:36:VAL:HG22	2.05	0.56
29:AG:135:PRO:CG	29:AG:144:LEU:HD22	2.36	0.56
31:AH:14:GLU:CD	31:AH:16:PRO:CB	2.76	0.56
34:AQ:45:ARG:HH11	36:B2:1593:C:H4'	1.71	0.56
38:Cz:91:LYS:HE2	38:Cz:96:ASN:ND2	2.20	0.56
38:Cz:120:ILE:CD1	38:Cz:124:LEU:HD12	2.35	0.56
38:Cz:192:SER:OG	38:Cz:193:LEU:HD22	2.06	0.56
40:CK:61:LYS:CD	40:CK:72:GLU:CA	2.84	0.56
40:CK:147:HIS:CB	40:CK:148:PRO:CD	2.82	0.56
41:CO:118:MET:CE	52:CS:169:THR:HA	2.33	0.56
41:CO:190:ASP:CG	41:CO:193:THR:CB	2.65	0.56
44:CM:7:VAL:H	52:CS:152:PHE:N	1.97	0.56
45:Ca:69:PHE:C	45:Ca:70:CYS:SG	2.88	0.56
46:CN:75:VAL:CB	46:CN:76:PRO:CD	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:115:VAL:CB	46:CN:134:LEU:CD2	2.84	0.56
49:CQ:32:TYR:OH	49:CQ:47:VAL:CG2	2.53	0.56
49:CQ:70:MET:HE2	49:CQ:98:LEU:CD2	2.36	0.56
49:CQ:124:ASP:OD1	49:CQ:125:GLN:N	2.38	0.56
50:CR:24:LEU:HD21	50:CR:32:ILE:HG13	1.86	0.56
56:CX:99:ILE:HD11	56:CX:129:ARG:HH12	1.67	0.56
56:CX:146:ALA:C	56:CX:149:VAL:HG12	2.30	0.56
60:Cr:91:SER:H	81:CE:110:ARG:HA	1.70	0.56
61:Ch:4:ILE:O	61:Ch:4:ILE:HG22	1.89	0.56
61:Ch:48:ARG:HH11	61:Ch:48:ARG:HG2	1.70	0.56
66:Cd:112:THR:HG1	66:Cd:113:THR:HG23	1.67	0.56
69:Cg:79:GLY:O	69:Cg:80:GLY:C	2.48	0.56
70:Ci:64:SER:O	70:Ci:65:LYS:CD	2.54	0.56
71:Cj:72:ARG:HH21	87:A8:93:C:H3'	1.71	0.56
72:Ck:31:ASN:O	72:Ck:32:VAL:CB	2.28	0.56
73:Cl:3:SER:H	73:Cl:5:LYS:HE2	1.70	0.56
74:CC:197:ARG:O	74:CC:198:ASN:HB2	2.06	0.56
81:CE:73:TYR:C	81:CE:74:SER:HB2	2.28	0.56
81:CE:160:LYS:CE	81:CE:184:VAL:HG23	2.32	0.56
82:CG:36:PRO:O	82:CG:37:LYS:HB2	2.05	0.56
82:CG:240:ASN:C	82:CG:241:VAL:HG12	2.30	0.56
85:A5:1051:G:H2'	85:A5:1052:G:C5'	2.36	0.56
85:A5:4626:A:N6	85:A5:4669:A:OP2	2.39	0.56
1:Az:432:PRO:O	1:Az:433:ASN:CG	2.48	0.56
1:Az:546:ILE:HD11	1:Az:561:LEU:HD22	1.88	0.56
1:Az:556:ILE:HA	1:Az:559:LYS:CE	2.32	0.56
1:Az:778:GLY:C	40:CK:31:LYS:CG	2.78	0.56
1:Az:791:ASN:CA	1:Az:794:PHE:HE1	2.19	0.56
4:AK:8:ARG:O	4:AK:12:TYR:HD1	1.87	0.56
6:AX:41:PHE:HZ	6:AX:102:VAL:CG1	2.19	0.56
7:AM:99:ASN:N	7:AM:100:PRO:CD	2.68	0.56
8:AS:120:HIS:CD2	8:AS:124:ARG:CD	2.89	0.56
11:AL:56:ILE:CG2	11:AL:57:ASP:N	2.68	0.56
12:AR:111:PHE:CE1	16:AA:12:GLU:CA	2.87	0.56
13:AP:41:GLN:C	13:AP:41:GLN:OE1	2.48	0.56
21:Ab:6:ASP:OD2	21:Ab:9:HIS:HB2	2.05	0.56
28:AC:112:VAL:HB	36:B2:11:A:O2'	2.06	0.56
30:AF:18:LYS:NZ	30:AF:18:LYS:CB	2.68	0.56
33:AI:5:ARG:NH1	33:AI:5:ARG:CG	2.65	0.56
34:AQ:52:LEU:C	34:AQ:54:PRO:HD2	2.29	0.56
35:Ah:152:SER:HG	35:Ah:154:ASP:HB2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:1274:G:N3	36:B2:1274:G:H5'	2.20	0.56
39:Cq:29:ILE:HD11	39:Cq:63:LYS:HZ3	1.69	0.56
40:CK:59:THR:HA	40:CK:80:LEU:HD13	1.87	0.56
40:CK:113:ALA:CA	40:CK:116:MET:SD	2.94	0.56
41:CO:66:PRO:CD	41:CO:67:SER:N	2.63	0.56
41:CO:177:LEU:HD22	44:CM:130:LEU:CD1	2.33	0.56
44:CM:60:PHE:CZ	44:CM:85:LYS:CD	2.87	0.56
45:Ca:83:SER:O	45:Ca:86:THR:OG1	2.23	0.56
46:CN:186:GLY:HA3	46:CN:191:ALA:CB	2.36	0.56
47:CI:109:ASP:O	47:CI:110:ARG:HD2	2.06	0.56
48:CD:37:VAL:HG22	48:CD:50:ARG:CZ	2.35	0.56
48:CD:51:MET:CE	48:CD:173:ILE:CG1	2.58	0.56
48:CD:211:LEU:HD23	48:CD:211:LEU:N	2.18	0.56
48:CD:271:MET:O	48:CD:272:SER:C	2.47	0.56
56:CX:120:ASP:O	56:CX:140:LEU:HD23	2.06	0.56
57:CY:32:SER:HB3	57:CY:49:ILE:CD1	2.31	0.56
59:CZ:83:THR:OG1	59:CZ:84:ARG:N	2.37	0.56
60:Cr:90:LEU:HB3	60:Cr:118:LEU:HD11	1.84	0.56
63:CB:77:THR:C	63:CB:78:ILE:CG2	2.78	0.56
63:CB:83:PRO:O	63:CB:167:GLN:HG3	2.05	0.56
69:Cg:61:PRO:CA	69:Cg:64:LEU:HD23	2.29	0.56
75:Cm:105:PRO:HG2	75:Cm:106:ARG:NE	2.19	0.56
81:CE:138:ARG:NH2	81:CE:171:GLY:CA	2.68	0.56
82:CG:98:LEU:CG	82:CG:215:LEU:HD23	2.34	0.56
82:CG:183:ILE:HB	82:CG:226:TYR:HE1	1.69	0.56
85:A5:1342:A:H61	85:A5:1514:U:H3	1.53	0.56
85:A5:4566:U:H2'	85:A5:4567:G:C8	2.41	0.56
85:A5:4896:G:H21	85:A5:4926:C:N4	2.03	0.56
1:Az:16:LYS:HE3	1:Az:16:LYS:H	1.71	0.56
1:Az:120:ARG:NH1	1:Az:496:VAL:CA	2.69	0.56
1:Az:236:PHE:HZ	1:Az:273:PHE:CZ	2.11	0.56
1:Az:316:ILE:CG2	1:Az:321:ILE:O	2.54	0.56
1:Az:393:PRO:O	1:Az:393:PRO:HD2	2.06	0.56
1:Az:591:CYS:SG	1:Az:591:CYS:O	2.64	0.56
4:AK:43:LEU:O	4:AK:45:VAL:CA	2.52	0.56
4:AK:88:GLU:HB3	35:Ah:282:GLU:C	2.31	0.56
7:AM:100:PRO:O	7:AM:101:ARG:NH1	2.39	0.56
8:AS:118:ARG:NH1	13:AP:108:LYS:HZ1	2.03	0.56
8:AS:121:ARG:CG	8:AS:131:VAL:CG1	2.83	0.56
12:AR:39:ALA:N	23:AD:211:VAL:CG2	2.69	0.56
15:AB:110:MET:CE	15:AB:213:ARG:HD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:59:LEU:HD23	16:AA:181:GLU:CG	2.33	0.56
19:AZ:48:VAL:HG22	19:AZ:80:ARG:HD2	1.79	0.56
21:Ab:63:LEU:O	21:Ab:64:CYS:SG	2.63	0.56
22:Ac:46:VAL:HG11	22:Ac:50:VAL:HG21	1.87	0.56
23:AD:153:VAL:HG12	23:AD:154:ASP:N	2.21	0.56
23:AD:162:ASP:HB3	23:AD:163:PRO:HD3	1.86	0.56
24:Ae:11:LYS:O	24:Ae:15:GLN:HG2	2.05	0.56
27:AE:38:LEU:HD12	27:AE:39:ARG:N	2.15	0.56
27:AE:181:CYS:SG	27:AE:225:ILE:HG23	2.46	0.56
29:AG:19:ASP:O	29:AG:20:ASP:HB2	2.05	0.56
30:AF:81:ARG:HE	30:AF:82:ASN:HD21	1.52	0.56
31:AH:142:LYS:C	31:AH:143:ARG:HG2	2.30	0.56
34:AQ:47:LEU:O	34:AQ:49:TYR:N	2.38	0.56
34:AQ:50:LYS:HA	34:AQ:53:GLU:HG3	1.87	0.56
38:Cz:65:VAL:CG2	38:Cz:147:LYS:HE3	2.34	0.56
39:Cq:133:GLU:C	39:Cq:135:THR:H	2.14	0.56
41:CO:119:VAL:CG1	41:CO:120:VAL:N	2.69	0.56
41:CO:119:VAL:O	52:CS:167:PHE:HB3	2.06	0.56
42:CL:182:LEU:HD21	45:Ca:146:LEU:CD1	2.34	0.56
43:CV:72:LEU:CA	43:CV:75:LYS:NZ	2.69	0.56
44:CM:23:LYS:HD2	44:CM:45:VAL:HG23	1.87	0.56
45:Ca:110:LYS:HG3	45:Ca:128:PHE:CB	2.30	0.56
46:CN:53:TYR:CE1	46:CN:59:TYR:CB	2.84	0.56
47:CI:76:MET:SD	47:CI:151:ALA:CB	2.93	0.56
48:CD:146:LEU:HD11	48:CD:163:LEU:HD13	1.86	0.56
51:CA:222:PRO:HG3	85:A5:3748:A:H2	1.71	0.56
52:CS:83:ARG:HD3	53:CT:155:PRO:C	2.30	0.56
53:CT:33:ILE:C	53:CT:34:TYR:CD2	2.84	0.56
54:CP:16:LYS:HE2	54:CP:149:ILE:CG2	2.36	0.56
57:CY:28:LYS:HD2	57:CY:28:LYS:N	2.19	0.56
57:CY:62:TYR:CZ	57:CY:85:VAL:HG13	2.39	0.56
58:CW:12:LYS:HE2	63:CB:388:PHE:HD2	1.71	0.56
61:Ch:67:GLU:CA	61:Ch:70:ARG:HG2	2.35	0.56
61:Ch:113:LEU:C	61:Ch:114:TYR:CG	2.84	0.56
63:CB:27:GLY:HA2	63:CB:276:HIS:HD2	1.71	0.56
63:CB:282:LYS:HB3	63:CB:333:LEU:CD2	2.36	0.56
64:CF:23:ARG:CB	64:CF:24:ASN:N	2.69	0.56
64:CF:101:VAL:CG1	64:CF:106:ARG:HG3	2.34	0.56
66:Cd:40:LYS:HA	66:Cd:43:PRO:HG2	1.88	0.56
67:Ce:50:LYS:NZ	68:Cf:20:ASN:CG	2.63	0.56
71:Cj:85:LYS:HZ3	87:A8:86:U:H3	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:311:ARG:NH1	74:CC:311:ARG:CB	2.57	0.56
77:Cp:27:LYS:CE	77:Cp:27:LYS:C	2.78	0.56
78:Co:15:CYS:HG	78:Co:77:CYS:HB3	1.70	0.56
81:CE:94:LYS:N	81:CE:95:PRO:CD	2.68	0.56
82:CG:117:ARG:HD2	82:CG:130:THR:CG2	2.35	0.56
84:Cv:3:TYR:O	84:Cv:6:SER:OG	2.22	0.56
84:Cv:20:ALA:HA	84:Cv:43:ILE:HD11	1.86	0.56
1:Az:108:HIS:CB	1:Az:552:LEU:HD23	2.35	0.56
1:Az:501:VAL:O	1:Az:501:VAL:HG12	2.06	0.56
1:Az:777:ALA:O	1:Az:778:GLY:C	2.45	0.56
1:Az:842:LYS:HD3	1:Az:842:LYS:N	2.21	0.56
2:Ag:36:ARG:O	2:Ag:38:LYS:N	2.38	0.56
2:Ag:64:HIS:CE1	2:Ag:65:PHE:HD2	2.24	0.56
6:AX:91:LEU:C	6:AX:93:PHE:N	2.60	0.56
7:AM:52:GLN:CG	7:AM:53:ALA:H	2.09	0.56
10:AN:131:THR:O	11:AL:153:LYS:HA	2.06	0.56
13:AP:49:LEU:C	13:AP:50:ARG:CG	2.75	0.56
16:AA:119:PRO:O	16:AA:142:LEU:HD22	2.04	0.56
16:AA:139:TYR:O	16:AA:140:VAL:CG2	2.54	0.56
18:AY:7:ILE:HD11	18:AY:43:LYS:HD3	1.78	0.56
23:AD:194:PRO:O	23:AD:197:LYS:O	2.23	0.56
28:AC:139:LEU:HD13	28:AC:139:LEU:C	2.31	0.56
28:AC:169:TYR:CZ	28:AC:176:LYS:C	2.84	0.56
28:AC:275:LYS:HD2	28:AC:276:THR:H	1.68	0.56
30:AF:175:ASP:OD1	30:AF:175:ASP:C	2.47	0.56
31:AH:145:ARG:CG	32:AW:51:GLU:HG2	2.34	0.56
33:AI:63:GLY:O	33:AI:75:LYS:HG2	2.06	0.56
33:AI:148:LYS:HE2	33:AI:152:ARG:NH2	2.20	0.56
34:AQ:34:VAL:HG21	34:AQ:39:LEU:HD23	1.76	0.56
34:AQ:45:ARG:O	34:AQ:46:THR:C	2.49	0.56
39:Cq:81:HIS:ND1	39:Cq:81:HIS:N	2.49	0.56
39:Cq:233:THR:HG22	84:Cu:4:VAL:CG2	2.28	0.56
39:Cq:270:ALA:C	39:Cq:272:PRO:HD2	2.30	0.56
40:CK:131:GLU:HB3	40:CK:152:ILE:CG2	2.36	0.56
40:CK:142:ASN:ND2	40:CK:151:ILE:HD12	2.21	0.56
41:CO:12:ARG:CB	41:CO:37:ARG:CD	2.83	0.56
41:CO:76:PRO:HB3	41:CO:138:LEU:HG	1.88	0.56
41:CO:108:ILE:HG23	41:CO:160:ARG:HD2	1.88	0.56
41:CO:122:ALA:CB	52:CS:162:GLN:OE1	2.50	0.56
41:CO:130:LYS:CE	41:CO:133:ARG:NH2	2.69	0.56
42:CL:130:LYS:CG	42:CL:131:PRO:HD2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:194:ILE:O	42:CL:198:ARG:HD3	2.05	0.56
47:CI:101:LYS:CG	47:CI:102:MET:H	2.19	0.56
48:CD:146:LEU:CD1	48:CD:163:LEU:HD13	2.36	0.56
48:CD:181:PRO:CG	48:CD:198:HIS:CD2	2.89	0.56
49:CQ:120:ILE:HG13	49:CQ:120:ILE:O	2.06	0.56
50:CR:101:ILE:CA	50:CR:104:ARG:CD	2.73	0.56
52:CS:102:THR:O	52:CS:106:VAL:HG23	2.06	0.56
56:CX:79:PHE:N	56:CX:79:PHE:CD2	2.73	0.56
57:CY:55:VAL:HG11	57:CY:104:VAL:CG1	1.85	0.56
58:CW:4:GLU:CG	58:CW:30:GLN:OE1	2.52	0.56
60:Cr:20:ARG:O	60:Cr:21:ASN:ND2	2.39	0.56
60:Cr:55:ALA:C	60:Cr:56:ASP:OD2	2.48	0.56
60:Cr:119:ARG:HG3	81:CE:112:MET:HE3	1.85	0.56
61:Ch:91:MET:C	61:Ch:94:ARG:HG2	2.27	0.56
63:CB:168:MET:HE3	63:CB:168:MET:CA	2.33	0.56
64:CF:20:LYS:HE2	64:CF:21:LYS:HD2	1.88	0.56
65:Cc:90:ARG:NH2	77:Cp:44:LYS:HD3	2.20	0.56
66:Cd:40:LYS:HA	66:Cd:43:PRO:CG	2.36	0.56
67:Ce:44:ARG:CG	67:Ce:52:GLN:NE2	2.67	0.56
69:Cg:39:GLY:O	69:Cg:40:LYS:HG3	2.04	0.56
71:Cj:47:TYR:HB3	71:Cj:49:TRP:NE1	2.20	0.56
71:Cj:64:MET:SD	71:Cj:67:LEU:HD23	2.46	0.56
74:CC:5:ARG:CG	74:CC:24:LEU:HB2	2.34	0.56
74:CC:46:LYS:CG	74:CC:49:ARG:HH11	2.19	0.56
74:CC:287:THR:O	74:CC:287:THR:CG2	2.52	0.56
74:CC:289:LEU:HD23	74:CC:289:LEU:N	2.14	0.56
75:Cm:105:PRO:CG	75:Cm:106:ARG:HD3	2.30	0.56
80:CH:138:GLN:O	80:CH:139:ALA:CB	2.51	0.56
81:CE:56:ARG:HG2	81:CE:57:TYR:N	2.21	0.56
81:CE:256:GLN:H	81:CE:256:GLN:NE2	2.04	0.56
82:CG:140:VAL:O	82:CG:144:THR:HG23	2.06	0.56
83:Cs:17:HIS:CG	83:Cs:56:ILE:HD13	2.41	0.56
85:A5:693:C:H2'	85:A5:694:C:H5'	1.88	0.56
85:A5:1828:C:H2'	85:A5:1829:G:C8	2.41	0.56
85:A5:2639:U:O2	85:A5:2694:G:C6	2.58	0.56
87:A8:65:A:N3	87:A8:95:A:C2	2.74	0.56
1:Az:27:HIS:CD2	1:Az:28:VAL:C	2.84	0.56
1:Az:150:ARG:HB2	1:Az:368:ARG:HG3	1.88	0.56
1:Az:166:GLU:OE1	80:CH:98:HIS:CE1	2.59	0.56
1:Az:316:ILE:HG22	1:Az:321:ILE:O	2.06	0.56
2:Ag:102:VAL:HG12	2:Ag:103:GLY:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AU:111:GLU:HG2	23:AD:10:LYS:NZ	2.21	0.56
4:AK:27:VAL:CB	4:AK:43:LEU:CD2	2.82	0.56
5:AO:142:ARG:NH1	20:Aa:27:ALA:HB1	2.17	0.56
6:AX:105:PHE:HB3	6:AX:112:VAL:CG2	2.36	0.56
10:AN:92:ILE:HG22	10:AN:150:VAL:HG23	1.86	0.56
11:AL:80:MET:CG	11:AL:86:ILE:HG22	2.36	0.56
11:AL:149:ALA:O	11:AL:150:GLY:O	2.24	0.56
12:AR:21:TYR:HD2	12:AR:73:LEU:HD12	1.68	0.56
13:AP:9:LYS:O	13:AP:10:ARG:CZ	2.54	0.56
14:AT:39:LEU:HD11	14:AT:56:ARG:CZ	2.36	0.56
14:AT:85:ASN:HB3	14:AT:88:MET:SD	2.46	0.56
15:AB:57:ILE:CG1	15:AB:60:ASP:OD1	2.52	0.56
16:AA:193:HIS:CB	16:AA:194:PRO:CD	2.84	0.56
18:AY:54:VAL:HG13	18:AY:76:TYR:N	2.18	0.56
23:AD:176:LEU:C	23:AD:177:LEU:HD13	2.30	0.56
25:Af:100:LEU:C	25:Af:102:VAL:H	2.14	0.56
28:AC:75:ILE:O	28:AC:97:PHE:HZ	1.86	0.56
31:AH:147:LYS:CE	31:AH:153:LEU:HD11	2.36	0.56
33:AI:55:TYR:CD2	33:AI:55:TYR:N	2.68	0.56
34:AQ:85:ARG:HD3	34:AQ:119:LEU:HD21	1.81	0.56
35:Ah:146:GLY:C	35:Ah:148:GLY:N	2.62	0.56
39:Cq:8:THR:O	39:Cq:11:SER:OG	2.19	0.56
39:Cq:245:TYR:CD1	83:Ct:60:ILE:HD13	2.41	0.56
40:CK:16:ARG:HH12	40:CK:28:LEU:C	2.13	0.56
40:CK:50:THR:OG1	40:CK:61:LYS:NZ	2.39	0.56
41:CO:124:LEU:HD23	52:CS:172:PRO:HD3	1.88	0.56
42:CL:110:LEU:O	42:CL:114:VAL:HG23	2.06	0.56
42:CL:176:PHE:HE1	42:CL:178:ALA:HA	1.70	0.56
47:CI:47:PRO:CB	47:CI:171:TRP:CZ3	2.78	0.56
47:CI:99:ILE:CD1	47:CI:123:GLN:HE22	2.16	0.56
48:CD:33:ARG:NE	53:CT:27:LEU:CD1	2.69	0.56
48:CD:178:LYS:CG	48:CD:183:TYR:CE2	2.86	0.56
49:CQ:16:LYS:O	49:CQ:52:PHE:CE2	2.58	0.56
49:CQ:17:GLU:OE2	49:CQ:18:PRO:CD	2.53	0.56
49:CQ:38:ARG:NH1	74:CC:304:ALA:O	2.39	0.56
50:CR:16:ARG:NH1	85:A5:2699:C:H5"	2.21	0.56
51:CA:196:TRP:CE3	51:CA:197:PRO:HD3	2.41	0.56
53:CT:97:LYS:HD2	53:CT:98:HIS:O	2.06	0.56
57:CY:86:GLN:HB3	57:CY:96:HIS:CA	2.33	0.56
58:CW:87:LEU:C	58:CW:91:MET:SD	2.89	0.56
63:CB:311:ASP:OD1	63:CB:311:ASP:C	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:316:PRO:HD2	63:CB:320:PHE:CE2	2.41	0.56
65:Cc:22:MET:HA	65:Cc:22:MET:HE2	1.87	0.56
72:Ck:14:THR:OG1	72:Ck:17:ARG:NH1	2.36	0.56
74:CC:210:ILE:HD12	74:CC:252:TRP:CH2	2.39	0.56
77:Cp:27:LYS:HE3	77:Cp:31:ILE:HD11	1.84	0.56
81:CE:194:VAL:HG12	81:CE:195:ILE:N	2.21	0.56
82:CG:104:PRO:C	82:CG:105:GLU:CD	2.74	0.56
82:CG:207:VAL:CG1	82:CG:215:LEU:CD1	2.81	0.56
1:Az:159:LYS:HE2	1:Az:162:ARG:HH11	1.70	0.56
1:Az:231:MET:HE1	1:Az:343:TRP:CZ2	2.41	0.56
1:Az:546:ILE:HG22	1:Az:554:LEU:CD1	2.36	0.56
1:Az:743:PRO:CG	1:Az:817:TRP:CZ3	2.89	0.56
2:Ag:36:ARG:C	2:Ag:38:LYS:H	2.14	0.56
2:Ag:57:ARG:NH1	2:Ag:94:THR:HA	2.21	0.56
5:AO:30:VAL:CB	5:AO:32:HIS:NE2	2.69	0.56
6:AX:52:LEU:HD12	6:AX:53:GLU:CG	2.35	0.56
8:AS:135:HIS:CD2	36:B2:1519:U:H1'	2.41	0.56
12:AR:62:GLN:O	12:AR:62:GLN:HG3	2.06	0.56
14:AT:124:THR:CG2	14:AT:126:GLN:HB3	2.35	0.56
15:AB:205:TYR:CG	15:AB:206:PRO:CD	2.82	0.56
16:AA:145:ILE:HG23	16:AA:159:ILE:CG2	2.36	0.56
18:AY:103:SER:O	18:AY:104:ARG:CB	2.53	0.56
19:AZ:73:VAL:CG1	19:AZ:79:ILE:HG21	2.23	0.56
20:Aa:28:ARG:CG	20:Aa:29:CYS:N	2.56	0.56
25:Af:97:LYS:HE3	36:B2:1288:U:C5	2.41	0.56
28:AC:156:ILE:CG2	28:AC:157:LEU:N	2.69	0.56
30:AF:57:ALA:O	36:B2:1679:A:N1	2.39	0.56
31:AH:114:GLN:O	31:AH:115:LYS:C	2.49	0.56
31:AH:122:LEU:CD1	31:AH:122:LEU:C	2.34	0.56
31:AH:158:LEU:HD23	31:AH:158:LEU:N	2.18	0.56
31:AH:158:LEU:HG	31:AH:187:PHE:HD1	1.71	0.56
33:AI:25:ARG:HB3	33:AI:27:TYR:CE2	2.41	0.56
33:AI:54:LYS:CG	33:AI:181:GLN:O	2.54	0.56
34:AQ:10:VAL:HG12	34:AQ:11:GLN:N	2.21	0.56
35:Ah:152:SER:HB2	35:Ah:155:ARG:HD3	1.88	0.56
35:Ah:155:ARG:HA	35:Ah:158:ILE:HB	1.88	0.56
35:Ah:302:ALA:C	35:Ah:303:LYS:HG3	2.31	0.56
36:B2:24:C:C2'	36:B2:25:A:C8	2.86	0.56
36:B2:684:G:H1	36:B2:918:U:H3	1.53	0.56
36:B2:1721:U:H3'	36:B2:1722:G:H5'	1.86	0.56
37:BC:36:A:N1	37:BC:37:A:N6	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:86:ASP:CG	38:Cz:87:ILE:H	2.14	0.56
41:CO:12:ARG:HB2	41:CO:37:ARG:CD	2.35	0.56
44:CM:7:VAL:HG12	44:CM:27:ILE:CD1	2.35	0.56
46:CN:79:ALA:C	46:CN:87:HIS:CD2	2.84	0.56
48:CD:76:CYS:SG	48:CD:109:LEU:HB2	2.45	0.56
49:CQ:73:PRO:O	49:CQ:75:ARG:CZ	2.53	0.56
50:CR:123:LEU:HD11	50:CR:138:LEU:HD21	0.78	0.56
54:CP:110:ASP:O	54:CP:111:SER:C	2.46	0.56
57:CY:50:ARG:HD2	57:CY:115:ARG:HH21	1.61	0.56
59:CZ:118:PHE:HZ	59:CZ:130:PHE:CZ	2.13	0.56
61:Ch:113:LEU:O	61:Ch:114:TYR:CG	2.59	0.56
62:Cb:75:LEU:CD1	62:Cb:75:LEU:C	2.78	0.56
63:CB:77:THR:O	63:CB:332:MET:HA	2.06	0.56
63:CB:89:ILE:HD12	63:CB:89:ILE:O	2.06	0.56
63:CB:146:LEU:O	63:CB:150:PHE:CD1	2.59	0.56
63:CB:315:ASN:HD21	63:CB:319:GLY:HA2	1.70	0.56
65:Cc:83:THR:O	65:Cc:86:GLY:HA2	2.06	0.56
74:CC:54:VAL:CG2	74:CC:101:MET:CE	2.83	0.56
74:CC:156:ASP:O	74:CC:157:LYS:C	2.46	0.56
80:CH:4:ILE:CG2	80:CH:5:LEU:H	2.07	0.56
80:CH:50:LYS:H	80:CH:50:LYS:HZ2	1.46	0.56
80:CH:86:LEU:CD2	80:CH:189:GLN:CG	2.84	0.56
80:CH:110:SER:CB	80:CH:111:LEU:HA	2.35	0.56
80:CH:163:GLN:O	80:CH:166:THR:HG23	2.06	0.56
81:CE:83:LYS:CD	81:CE:86:GLU:CA	2.84	0.56
81:CE:176:THR:HA	81:CE:186:LEU:HA	1.87	0.56
85:A5:449:C:C4	85:A5:450:G:C6	2.94	0.56
85:A5:4565:C:H2'	85:A5:4566:U:C6	2.40	0.56
1:Az:650:TRP:CE2	1:Az:664:ASP:HB2	2.40	0.55
1:Az:684:GLN:HG3	24:Ae:7:ALA:HB3	1.88	0.55
2:Ag:26:GLN:CB	2:Ag:74:ASP:O	2.48	0.55
2:Ag:276:SER:O	2:Ag:277:THR:C	2.44	0.55
4:AK:1:MET:H2	4:AK:2:LEU:C	2.12	0.55
6:AX:125:VAL:O	6:AX:128:VAL:CA	2.54	0.55
7:AM:77:ILE:HD12	7:AM:79:VAL:HG23	1.88	0.55
8:AS:55:ARG:HG3	19:AZ:48:VAL:CG1	2.34	0.55
9:Ad:50:ILE:CG2	9:Ad:52:PHE:CE2	2.89	0.55
11:AL:147:LYS:HE2	11:AL:156:GLN:HE22	1.70	0.55
13:AP:34:MET:HE1	13:AP:46:ASN:OD1	2.05	0.55
14:AT:4:VAL:CB	14:AT:8:ASP:HB2	2.36	0.55
15:AB:138:PHE:N	15:AB:138:PHE:CD2	2.74	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:57:LYS:HZ3	17:AV:70:LEU:HG	1.71	0.55
24:Ae:44:ASN:H	24:Ae:45:VAL:CB	2.09	0.55
28:AC:213:LEU:O	28:AC:213:LEU:HD23	2.06	0.55
31:AH:57:ARG:HD2	31:AH:89:GLY:C	2.29	0.55
32:AW:128:PHE:CE1	32:AW:130:PHE:HE2	2.16	0.55
34:AQ:124:PRO:CG	34:AQ:125:ARG:N	2.69	0.55
36:B2:1365:G:H2'	36:B2:1366:G:H8	1.72	0.55
36:B2:1462:U:H2'	36:B2:1464:C:C5	2.40	0.55
38:Cz:53:VAL:HG21	38:Cz:189:PHE:CD1	2.41	0.55
38:Cz:162:VAL:HG21	85:A5:3967:G:H21	1.71	0.55
38:Cz:177:ASP:O	38:Cz:181:TYR:HD2	1.88	0.55
39:Cq:148:SER:C	39:Cq:149:ARG:O	2.49	0.55
39:Cq:252:SER:C	39:Cq:268:PHE:HZ	2.14	0.55
41:CO:54:TYR:CE2	41:CO:145:VAL:HG21	2.40	0.55
41:CO:81:TRP:CH2	41:CO:85:ARG:NE	2.62	0.55
41:CO:133:ARG:N	41:CO:133:ARG:CD	2.69	0.55
47:CI:36:LEU:HD11	47:CI:69:ARG:CD	2.36	0.55
48:CD:11:ALA:O	48:CD:15:ARG:HG3	2.06	0.55
49:CQ:88:ASP:CB	49:CQ:108:ARG:CB	2.77	0.55
49:CQ:93:GLN:HE21	49:CQ:93:GLN:N	2.04	0.55
49:CQ:146:ARG:NH1	49:CQ:146:ARG:HG3	2.19	0.55
52:CS:150:ILE:HD12	52:CS:151:LYS:N	2.20	0.55
52:CS:160:ARG:HH22	85:A5:1920:C:C5'	2.19	0.55
53:CT:25:VAL:CG1	53:CT:26:PRO:HD3	2.36	0.55
53:CT:40:VAL:HG13	53:CT:97:LYS:C	2.31	0.55
60:Cr:20:ARG:HB2	60:Cr:25:TYR:HE2	1.70	0.55
60:Cr:46:ARG:CG	60:Cr:68:SER:CB	2.84	0.55
60:Cr:54:ALA:C	60:Cr:56:ASP:CA	2.63	0.55
63:CB:116:ARG:CD	63:CB:122:TRP:CB	2.82	0.55
63:CB:163:ILE:HG22	63:CB:163:ILE:O	2.06	0.55
66:Cd:100:ASN:C	66:Cd:102:LEU:N	2.59	0.55
67:Ce:89:LEU:CD1	67:Ce:118:LEU:HD22	2.36	0.55
74:CC:5:ARG:HG2	74:CC:24:LEU:HG	0.56	0.55
74:CC:173:LYS:CA	74:CC:173:LYS:CE	2.32	0.55
78:Co:8:ARG:HH11	78:Co:8:ARG:CG	2.18	0.55
81:CE:74:SER:CB	81:CE:74:SER:HA	2.19	0.55
81:CE:242:ILE:HG12	81:CE:246:ARG:HH11	1.69	0.55
82:CG:253:LEU:HD23	82:CG:253:LEU:C	2.31	0.55
85:A5:1762:C:H42	85:A5:1770:A:H61	1.53	0.55
1:Az:3:ASN:CB	1:Az:47:ALA:O	2.54	0.55
1:Az:24:VAL:CG2	1:Az:32:LYS:CE	2.67	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:157:MET:HE2	1:Az:214:PHE:CD1	2.41	0.55
2:Ag:43:TRP:HZ3	2:Ag:55:PRO:HD3	1.70	0.55
6:AX:27:TYR:CD1	6:AX:31:HIS:CD2	2.94	0.55
7:AM:15:ASN:OD1	7:AM:15:ASN:C	2.50	0.55
8:AS:18:THR:OG1	8:AS:33:ILE:HG12	2.06	0.55
9:Ad:56:ASP:OXT	9:Ad:56:ASP:OD2	2.23	0.55
11:AL:8:ARG:HH11	33:AI:85:ALA:C	2.14	0.55
11:AL:17:PHE:HE1	11:AL:18:GLN:HB2	1.68	0.55
12:AR:61:ILE:HG23	12:AR:74:GLN:HE22	1.70	0.55
14:AT:23:LYS:HE2	14:AT:54:TYR:CE2	2.41	0.55
14:AT:65:TYR:HE2	14:AT:128:GLN:HG3	1.72	0.55
18:AY:46:LYS:O	18:AY:46:LYS:CG	2.55	0.55
23:AD:35:SER:HA	23:AD:99:ILE:HD11	0.73	0.55
23:AD:77:PHE:O	23:AD:78:GLY:C	2.50	0.55
23:AD:192:TRP:HE3	23:AD:196:GLY:CA	2.15	0.55
24:Ae:41:ARG:CA	24:Ae:45:VAL:HG22	2.35	0.55
26:AJ:136:ARG:HG3	26:AJ:160:SER:CB	2.36	0.55
27:AE:136:ILE:CD1	27:AE:136:ILE:N	2.70	0.55
28:AC:180:VAL:HG12	28:AC:181:PRO:HD2	1.85	0.55
29:AG:129:VAL:CA	58:CW:80:ARG:NH1	2.52	0.55
31:AH:106:ARG:NE	36:B2:861:A:C4	2.73	0.55
31:AH:144:ILE:HG13	32:AW:52:ILE:HG23	1.83	0.55
31:AH:169:LYS:CB	31:AH:173:PHE:CZ	2.90	0.55
33:AI:157:LYS:O	33:AI:158:ILE:C	2.47	0.55
35:Ah:160:ARG:HB2	36:B2:1701:C:C2	2.40	0.55
40:CK:121:LEU:HB2	40:CK:123:ARG:HD3	1.88	0.55
42:CL:126:LEU:HD23	42:CL:136:LYS:CB	2.35	0.55
44:CM:107:PHE:CD1	81:CE:270:TYR:CE2	2.94	0.55
47:CI:77:VAL:CG1	47:CI:82:ARG:HG3	2.35	0.55
48:CD:33:ARG:NH1	48:CD:50:ARG:HH22	2.03	0.55
48:CD:293:ARG:HD3	48:CD:293:ARG:N	2.22	0.55
49:CQ:33:ARG:HG2	49:CQ:48:LEU:CD1	2.34	0.55
50:CR:10:LEU:CD2	50:CR:41:ILE:CD1	2.83	0.55
51:CA:254:GLU:CA	51:CA:255:LYS:CB	2.85	0.55
59:CZ:100:VAL:HA	59:CZ:106:LEU:CG	2.36	0.55
60:Cr:26:SER:HG	60:Cr:34:ALA:C	2.14	0.55
61:Ch:67:GLU:HA	61:Ch:70:ARG:NE	2.21	0.55
63:CB:199:GLU:O	63:CB:199:GLU:CD	2.49	0.55
66:Cd:17:ILE:O	66:Cd:17:ILE:CG2	2.40	0.55
74:CC:253:THR:O	74:CC:257:PHE:N	2.39	0.55
75:Cm:103:LEU:HD12	75:Cm:121:LEU:CD2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:106:VAL:HG23	81:CE:107:VAL:HG22	1.88	0.55
81:CE:155:GLY:N	81:CE:158:ARG:HB3	2.21	0.55
82:CG:39:PHE:CE2	82:CG:47:PRO:CG	2.67	0.55
83:Ct:42:PHE:C	83:Ct:44:PRO:HD3	2.30	0.55
84:Cv:30:VAL:O	84:Cv:30:VAL:HG12	2.07	0.55
85:A5:1359:G:O6	85:A5:1378:C:N4	2.36	0.55
85:A5:2606:G:H21	85:A5:2667:C:H42	1.54	0.55
85:A5:4463:U:HO2'	85:A5:4464:A:H2'	1.71	0.55
87:A8:110:U:C2'	87:A8:111:U:H5'	2.36	0.55
1:Az:267:ASP:C	1:Az:267:ASP:CG	2.73	0.55
2:Ag:2:THR:O	2:Ag:3:GLU:HG2	2.04	0.55
3:AU:67:LYS:CG	3:AU:78:ASP:CG	2.78	0.55
6:AX:52:LEU:CD1	6:AX:71:ARG:HB2	2.36	0.55
10:AN:124:ARG:O	10:AN:127:ARG:HG2	2.06	0.55
12:AR:20:TYR:CE2	12:AR:38:ILE:CB	2.73	0.55
13:AP:12:PHE:CZ	79:CJ:88:LYS:CG	2.89	0.55
13:AP:49:LEU:HD11	13:AP:51:ARG:HH21	1.70	0.55
15:AB:105:LEU:HG	15:AB:213:ARG:O	2.07	0.55
19:AZ:99:LEU:CD1	19:AZ:102:LYS:HD3	2.35	0.55
20:Aa:21:ILE:HD13	20:Aa:72:HIS:CE1	2.41	0.55
21:Ab:5:LYS:NZ	21:Ab:5:LYS:HB3	2.19	0.55
23:AD:141:LYS:CE	23:AD:179:GLN:NE2	2.69	0.55
24:Ae:50:GLY:C	24:Ae:51:LYS:CG	2.53	0.55
25:Af:106:TYR:HH	25:Af:131:PHE:HZ	0.57	0.55
27:AE:230:LYS:O	27:AE:233:LYS:N	2.36	0.55
28:AC:213:LEU:HD13	28:AC:240:THR:CG2	2.36	0.55
29:AG:28:TYR:C	29:AG:30:LYS:H	2.13	0.55
30:AF:143:PRO:HA	30:AF:146:ARG:HG3	1.88	0.55
31:AH:37:LYS:HZ3	31:AH:38:ALA:HA	1.69	0.55
31:AH:60:ILE:O	31:AH:60:ILE:HG23	2.06	0.55
36:B2:501:C:H2'	36:B2:501:C:O2	2.06	0.55
40:CK:15:LEU:HD11	40:CK:60:VAL:HG12	1.86	0.55
40:CK:18:THR:HA	40:CK:58:ILE:HG23	1.88	0.55
41:CO:27:VAL:HG11	41:CO:98:ALA:C	2.30	0.55
41:CO:28:LEU:HD21	41:CO:88:LEU:HD22	1.89	0.55
42:CL:140:SER:C	42:CL:146:LEU:HD12	2.24	0.55
43:CV:60:MET:CE	43:CV:129:TRP:CH2	2.89	0.55
44:CM:8:GLU:O	44:CM:9:VAL:C	2.48	0.55
44:CM:41:PRO:O	44:CM:42:CYS:O	2.24	0.55
46:CN:91:GLN:HB2	78:Co:48:TYR:OH	2.06	0.55
47:CI:68:ALA:HB3	47:CI:159:PHE:CZ	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:21:ARG:CZ	48:CD:25:GLU:OE2	2.55	0.55
48:CD:52:ILE:HD13	86:A7:6:C:H4'	1.89	0.55
48:CD:252:VAL:O	48:CD:253:TYR:C	2.34	0.55
51:CA:22:HIS:O	51:CA:52:PRO:HG3	2.07	0.55
51:CA:96:LEU:HD11	51:CA:108:PRO:HD2	1.88	0.55
51:CA:122:ASP:O	51:CA:123:ARG:CB	2.53	0.55
52:CS:9:GLU:HG2	52:CS:33:PHE:CD2	2.42	0.55
53:CT:65:TYR:CD1	53:CT:65:TYR:C	2.84	0.55
53:CT:150:LEU:O	53:CT:151:LEU:CA	2.54	0.55
58:CW:67:ILE:HG22	58:CW:67:ILE:O	2.04	0.55
59:CZ:57:MET:HE2	59:CZ:61:LYS:HB3	1.85	0.55
60:Cr:20:ARG:CG	67:Ce:77:PHE:CZ	2.71	0.55
60:Cr:71:ARG:HB3	60:Cr:79:ARG:HD2	1.88	0.55
63:CB:119:TYR:CE1	63:CB:125:SER:CB	2.88	0.55
63:CB:292:LEU:CA	63:CB:298:LEU:HB2	2.37	0.55
63:CB:314:ILE:O	63:CB:314:ILE:HG22	2.05	0.55
67:Ce:4:LEU:HD12	67:Ce:4:LEU:H	1.71	0.55
68:Cf:103:VAL:HG23	68:Cf:103:VAL:O	2.07	0.55
69:Cg:14:ASN:OD1	69:Cg:14:ASN:C	2.46	0.55
69:Cg:57:ARG:HH11	69:Cg:57:ARG:HG3	1.64	0.55
73:Cl:43:HIS:CD2	73:Cl:45:ARG:HB2	2.41	0.55
76:Cn:22:GLN:C	76:Cn:24:SER:H	2.13	0.55
80:CH:65:LYS:O	80:CH:69:THR:HG23	2.05	0.55
81:CE:212:LEU:CG	81:CE:216:TYR:CG	2.86	0.55
82:CG:70:LEU:O	82:CG:73:ARG:HB2	2.06	0.55
82:CG:175:ARG:HG3	82:CG:230:TYR:CE1	2.41	0.55
83:Ct:42:PHE:C	83:Ct:44:PRO:CD	2.80	0.55
85:A5:1377:G:H3'	85:A5:1378:C:H5'	1.88	0.55
1:Az:475:VAL:O	1:Az:475:VAL:CG1	2.54	0.55
1:Az:613:LEU:HD13	1:Az:639:TYR:CG	2.42	0.55
2:Ag:2:THR:HG23	2:Ag:3:GLU:CD	2.31	0.55
2:Ag:191:HIS:CD2	2:Ag:195:LEU:CD1	2.87	0.55
3:AU:18:HIS:CE1	3:AU:98:VAL:HG22	2.39	0.55
4:AK:1:MET:HB3	4:AK:47:LYS:HB3	1.87	0.55
4:AK:41:PRO:CD	4:AK:43:LEU:HG	2.36	0.55
4:AK:53:LYS:HA	4:AK:58:VAL:CG1	2.36	0.55
4:AK:53:LYS:HA	4:AK:58:VAL:HG13	1.88	0.55
7:AM:59:PRO:HB2	7:AM:62:VAL:HG22	1.89	0.55
7:AM:86:GLY:C	7:AM:91:LEU:HD11	2.31	0.55
7:AM:98:GLY:C	7:AM:100:PRO:CD	2.74	0.55
10:AN:2:GLY:O	10:AN:3:ARG:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:125:LEU:CD1	10:AN:129:TYR:CZ	2.89	0.55
13:AP:41:GLN:HA	13:AP:84:ILE:HD13	1.88	0.55
14:AT:23:LYS:CE	14:AT:54:TYR:CE2	2.85	0.55
16:AA:94:THR:CG2	16:AA:182:VAL:CG2	2.84	0.55
16:AA:180:ARG:O	16:AA:184:ARG:HG3	2.06	0.55
17:AV:39:VAL:O	17:AV:41:LYS:N	2.34	0.55
17:AV:41:LYS:O	17:AV:42:VAL:C	2.50	0.55
21:Ab:4:ALA:C	21:Ab:5:LYS:HG3	2.31	0.55
22:Ac:51:ARG:HG2	22:Ac:52:GLU:N	2.22	0.55
23:AD:59:LEU:HD12	23:AD:59:LEU:C	2.25	0.55
26:AJ:170:PRO:HD2	26:AJ:175:ARG:HD2	1.88	0.55
27:AE:149:TYR:OH	29:AG:206:ALA:HB2	2.07	0.55
28:AC:94:ILE:CD1	28:AC:162:ILE:HD11	2.27	0.55
28:AC:114:LYS:NZ	28:AC:115:GLN:O	2.38	0.55
29:AG:43:GLU:O	29:AG:44:GLU:C	2.46	0.55
29:AG:98:ARG:C	29:AG:98:ARG:CD	2.75	0.55
29:AG:141:ILE:HG21	29:AG:153:VAL:HG13	1.87	0.55
30:AF:138:ALA:CB	30:AF:200:ALA:O	2.55	0.55
31:AH:35:ASP:C	31:AH:37:LYS:H	2.10	0.55
34:AQ:109:LYS:NZ	34:AQ:113:ILE:CD1	2.69	0.55
35:Ah:296:ILE:O	35:Ah:298:ASN:OD1	2.24	0.55
36:B2:870:A:H1'	36:B2:916:A:C2	2.41	0.55
38:Cz:42:ASP:HB3	38:Cz:45:LYS:HB2	1.89	0.55
39:Cq:48:ARG:NE	39:Cq:48:ARG:HA	2.21	0.55
39:Cq:182:PRO:HG2	39:Cq:183:PHE:HD2	1.61	0.55
39:Cq:231:TYR:HB2	84:Cu:45:GLU:HB2	1.88	0.55
40:CK:17:CYS:C	40:CK:18:THR:HG1	2.09	0.55
40:CK:56:LEU:HB2	40:CK:91:ASP:OD2	2.04	0.55
41:CO:82:ARG:HD3	41:CO:85:ARG:NH1	2.21	0.55
41:CO:124:LEU:CD2	52:CS:172:PRO:CG	2.80	0.55
42:CL:77:SER:HG	42:CL:80:GLU:HG3	1.70	0.55
42:CL:110:LEU:HD22	70:Ci:20:ASN:HD21	1.71	0.55
45:Ca:119:LYS:HA	45:Ca:140:VAL:HG22	1.87	0.55
45:Ca:129:PHE:CD2	45:Ca:129:PHE:N	2.71	0.55
46:CN:59:TYR:CD1	46:CN:135:ILE:HG12	2.41	0.55
46:CN:115:VAL:CB	46:CN:134:LEU:HD21	2.36	0.55
48:CD:243:ALA:O	48:CD:247:ILE:HG13	2.06	0.55
49:CQ:25:LEU:O	49:CQ:28:LEU:CG	2.47	0.55
51:CA:31:ALA:N	51:CA:123:ARG:NH2	2.54	0.55
52:CS:45:TRP:CE2	52:CS:61:ILE:HD11	2.41	0.55
52:CS:59:GLY:O	52:CS:60:GLU:CB	2.51	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:97:ARG:C	55:CU:99:TRP:H	2.15	0.55
56:CX:81:LEU:CD2	56:CX:99:ILE:HD12	2.27	0.55
57:CY:74:TYR:HB2	57:CY:81:TYR:HE2	1.72	0.55
58:CW:62:GLY:O	58:CW:63:GLN:HB3	2.06	0.55
60:Cr:20:ARG:HB3	67:Ce:77:PHE:CD1	2.41	0.55
60:Cr:119:ARG:O	60:Cr:123:PRO:CD	2.54	0.55
61:Ch:10:ARG:NH1	61:Ch:10:ARG:CG	2.44	0.55
62:Cb:16:TRP:CD1	62:Cb:16:TRP:H	2.25	0.55
62:Cb:53:GLY:C	62:Cb:55:LYS:H	2.14	0.55
62:Cb:69:ALA:C	62:Cb:72:ILE:HG22	2.22	0.55
63:CB:282:LYS:HB3	63:CB:333:LEU:HD11	1.87	0.55
64:CF:200:ARG:O	64:CF:203:GLU:N	2.39	0.55
67:Ce:7:LEU:HD13	67:Ce:73:GLY:CA	2.36	0.55
69:Cg:38:VAL:CG1	69:Cg:40:LYS:CE	2.84	0.55
74:CC:128:LEU:CD2	74:CC:240:LEU:HD11	2.34	0.55
74:CC:154:VAL:CG2	74:CC:174:LEU:CD1	2.82	0.55
74:CC:204:ARG:NE	74:CC:204:ARG:CA	2.68	0.55
74:CC:266:THR:CG2	74:CC:268:ARG:N	2.69	0.55
79:CJ:55:TYR:HE1	79:CJ:57:VAL:CG2	2.19	0.55
80:CH:78:GLN:HB3	80:CH:82:LYS:HE2	1.88	0.55
80:CH:113:GLU:CG	80:CH:123:ILE:HD11	2.35	0.55
81:CE:162:VAL:HG11	81:CE:175:VAL:CG1	2.36	0.55
82:CG:82:GLN:CD	82:CG:233:ILE:HG21	2.31	0.55
83:Cs:11:TYR:O	83:Cs:15:ILE:HG13	2.06	0.55
84:Cu:17:SER:O	84:Cu:19:SER:N	2.40	0.55
85:A5:275:C:H5''	85:A5:276:C:C2	2.42	0.55
85:A5:975:C:N4	85:A5:1279:A:H2	2.04	0.55
85:A5:1440:U:H3	85:A5:2104:G:H1	1.52	0.55
85:A5:1819:G:H2'	85:A5:1820:C:C6	2.41	0.55
85:A5:4935:C:H2'	85:A5:4935:C:O2	2.06	0.55
1:Az:191:THR:HG22	1:Az:192:TYR:CG	2.41	0.55
2:Ag:64:HIS:CE1	2:Ag:65:PHE:CE2	2.94	0.55
2:Ag:87:LEU:CD2	2:Ag:108:VAL:HG11	2.36	0.55
2:Ag:149:GLU:HB2	2:Ag:171:ASP:HB3	1.87	0.55
2:Ag:188:HIS:HB3	2:Ag:219:TRP:CZ3	2.41	0.55
3:AU:69:PRO:CB	9:Ad:41:GLN:HG3	2.37	0.55
4:AK:64:TRP:HE1	23:AD:23:GLU:CB	2.20	0.55
4:AK:85:LEU:HD13	4:AK:89:ILE:CG1	2.37	0.55
5:AO:74:ALA:HB3	5:AO:114:SER:OG	2.07	0.55
8:AS:142:ARG:HA	36:B2:1523:C:OP1	2.06	0.55
11:AL:35:ARG:HH21	11:AL:63:THR:CG2	2.10	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:100:PRO:CA	12:AR:103:LYS:HB2	2.09	0.55
13:AP:100:LYS:HG2	36:B2:1240:A:C6	2.40	0.55
15:AB:153:THR:O	15:AB:154:SER:CB	2.54	0.55
19:AZ:77:LEU:O	19:AZ:78:LYS:CD	2.53	0.55
22:Ac:18:LEU:HB3	22:Ac:29:GLN:CB	2.37	0.55
22:Ac:47:LYS:NZ	30:AF:141:VAL:HG11	2.19	0.55
23:AD:53:THR:HG22	23:AD:91:VAL:CB	2.35	0.55
23:AD:148:LYS:O	35:Ah:177:ARG:NH2	2.39	0.55
24:Ae:51:LYS:O	35:Ah:185:PHE:CZ	2.59	0.55
26:AJ:50:LEU:HD12	26:AJ:102:ILE:CG1	2.35	0.55
27:AE:100:ARG:CG	27:AE:102:ILE:CD1	2.85	0.55
30:AF:130:ARG:HH11	30:AF:135:ARG:HG3	1.72	0.55
36:B2:151:C:H2'	36:B2:152:U:C6	2.42	0.55
36:B2:1500:G:H2'	36:B2:1501:C:C6	2.42	0.55
38:Cz:26:ARG:C	38:Cz:28:PHE:H	2.13	0.55
39:Cq:78:LEU:CD2	39:Cq:193:PHE:HB2	2.36	0.55
40:CK:28:LEU:HD13	40:CK:29:ALA:H	1.69	0.55
42:CL:18:TRP:HH2	74:CC:108:TRP:CZ2	2.24	0.55
44:CM:33:GLN:CD	80:CH:61:TRP:CD1	2.84	0.55
47:CI:26:VAL:HG22	47:CI:122:PRO:CG	2.36	0.55
51:CA:114:CYS:O	51:CA:116:LEU:N	2.40	0.55
53:CT:132:PRO:O	53:CT:132:PRO:HD2	2.05	0.55
60:Cr:81:THR:O	60:Cr:82:ILE:CG2	2.54	0.55
60:Cr:111:ILE:HG21	81:CE:115:TYR:CE2	2.41	0.55
61:Ch:78:TYR:C	61:Ch:84:ARG:HH21	2.14	0.55
63:CB:92:TYR:HB3	63:CB:99:LEU:HD11	1.87	0.55
63:CB:133:TYR:CD1	63:CB:136:LYS:CE	2.90	0.55
63:CB:356:LYS:C	63:CB:358:ARG:H	2.12	0.55
64:CF:223:LYS:O	64:CF:232:ASP:HB2	2.06	0.55
67:Ce:27:ARG:HB3	67:Ce:28:TYR:CD2	2.41	0.55
71:Cj:73:ARG:HD2	71:Cj:78:PHE:HA	1.89	0.55
74:CC:54:VAL:HB	74:CC:101:MET:HE2	1.88	0.55
74:CC:260:LEU:HD22	74:CC:264:TYR:CE2	2.41	0.55
80:CH:171:ASP:CG	80:CH:173:ARG:HH11	2.14	0.55
81:CE:31:ASN:H	81:CE:32:LEU:CD2	2.20	0.55
81:CE:175:VAL:O	81:CE:186:LEU:O	2.23	0.55
82:CG:75:LYS:NZ	82:CG:240:ASN:CG	2.58	0.55
82:CG:243:GLY:CA	82:CG:244:PRO:N	2.66	0.55
84:Cu:3:TYR:C	84:Cu:7:TYR:HD2	2.13	0.55
85:A5:4751:G:C8	85:A5:4950:U:C6	2.94	0.55
1:Az:241:GLU:H	1:Az:243:GLN:CD	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:449:ARG:CB	1:Az:473:VAL:CG1	2.82	0.55
1:Az:485:ILE:HD12	1:Az:485:ILE:N	2.20	0.55
1:Az:798:ALA:O	1:Az:801:ARG:HG3	2.06	0.55
2:Ag:89:LEU:HB3	2:Ag:98:THR:OG1	2.07	0.55
2:Ag:110:SER:CB	2:Ag:153:CYS:HA	2.37	0.55
4:AK:17:LYS:HZ2	35:Ah:287:GLU:HA	1.72	0.55
5:AO:44:VAL:HG22	5:AO:93:LEU:HD13	1.85	0.55
12:AR:16:ILE:O	12:AR:20:TYR:HB2	2.07	0.55
13:AP:49:LEU:HD12	13:AP:50:ARG:H	1.71	0.55
13:AP:53:GLN:CG	13:AP:56:LEU:HD12	2.37	0.55
14:AT:64:LEU:N	14:AT:64:LEU:CD2	2.63	0.55
15:AB:57:ILE:C	15:AB:59:SER:N	2.63	0.55
15:AB:113:MET:CE	15:AB:209:ASP:HB3	2.36	0.55
16:AA:186:ARG:NH1	16:AA:186:ARG:O	2.39	0.55
18:AY:37:LYS:CA	18:AY:40:ILE:HG22	2.36	0.55
23:AD:28:GLU:HA	23:AD:28:GLU:OE1	2.07	0.55
23:AD:59:LEU:CG	23:AD:60:GLY:N	2.69	0.55
24:Ae:42:PHE:HE2	26:AJ:29:LEU:HB3	1.72	0.55
28:AC:265:PRO:HA	28:AC:268:GLU:HG2	1.87	0.55
29:AG:131:ARG:O	58:CW:83:THR:N	2.40	0.55
30:AF:68:ILE:HG13	30:AF:69:VAL:N	2.21	0.55
30:AF:78:MET:HB2	30:AF:159:ARG:NH2	2.22	0.55
30:AF:182:LYS:NZ	30:AF:182:LYS:CB	2.69	0.55
40:CK:62:LEU:HD12	40:CK:73:VAL:HB	1.84	0.55
40:CK:85:LEU:HD22	40:CK:109:ILE:HG21	1.87	0.55
41:CO:19:LEU:O	41:CO:23:VAL:HG23	2.07	0.55
44:CM:47:ARG:HG2	44:CM:47:ARG:O	2.05	0.55
44:CM:47:ARG:NH1	44:CM:70:GLN:HG3	2.21	0.55
44:CM:113:MET:HE2	44:CM:113:MET:O	2.07	0.55
44:CM:120:ASN:CA	44:CM:123:ILE:HG22	2.35	0.55
46:CN:44:ARG:HG3	46:CN:119:TYR:OH	2.07	0.55
47:CI:101:LYS:HG3	47:CI:102:MET:H	1.71	0.55
47:CI:205:PRO:C	47:CI:206:LEU:CA	2.79	0.55
48:CD:213:GLU:HG2	48:CD:214:GLU:HG3	1.89	0.55
49:CQ:64:SER:CB	49:CQ:92:VAL:HG23	2.29	0.55
49:CQ:93:GLN:HE21	49:CQ:93:GLN:H	1.54	0.55
50:CR:75:HIS:O	50:CR:76:MET:CE	2.54	0.55
50:CR:142:ILE:HA	50:CR:145:LEU:HG	1.87	0.55
51:CA:141:PRO:C	51:CA:143:THR:N	2.64	0.55
51:CA:142:GLU:O	51:CA:143:THR:C	2.50	0.55
56:CX:89:LYS:CG	56:CX:95:THR:OG1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:108:GLU:CG	63:CB:137:TRP:CE2	2.90	0.55
63:CB:223:THR:CG2	63:CB:274:TYR:N	2.69	0.55
63:CB:234:ARG:HH11	63:CB:270:GLY:C	2.13	0.55
63:CB:303:ALA:C	63:CB:312:LYS:NZ	2.64	0.55
64:CF:70:ARG:HH12	64:CF:73:ARG:HD2	1.71	0.55
64:CF:95:ILE:HD11	64:CF:96:ARG:CG	2.36	0.55
64:CF:175:ILE:O	64:CF:179:LEU:HB2	2.07	0.55
66:Cd:59:THR:CG2	66:Cd:90:ARG:HG3	2.37	0.55
67:Ce:11:LYS:HA	67:Ce:12:ILE:HD13	1.87	0.55
76:Cn:13:LEU:HD11	76:Cn:17:ARG:CZ	2.37	0.55
77:Cp:32:SER:HB2	77:Cp:70:THR:CG2	2.31	0.55
78:Co:92:GLU:HG3	78:Co:94:GLY:H	1.71	0.55
79:CJ:26:VAL:CG2	79:CJ:33:LEU:CD2	2.83	0.55
79:CJ:146:ARG:NH2	79:CJ:147:ARG:CZ	2.69	0.55
81:CE:141:ARG:NH2	81:CE:191:GLN:O	2.40	0.55
81:CE:215:ALA:O	81:CE:218:LYS:HG3	2.07	0.55
81:CE:219:LYS:HE2	85:A5:1291:G:OP1	2.07	0.55
82:CG:27:VAL:O	82:CG:31:LEU:CG	2.54	0.55
83:Ct:32:ILE:HD13	83:Ct:39:VAL:CG2	2.36	0.55
85:A5:445:U:C5	85:A5:446:C:C5	2.95	0.55
1:Az:189:ILE:CG2	1:Az:203:ILE:CD1	2.84	0.55
1:Az:622:VAL:HG11	1:Az:635:LEU:CD2	2.35	0.55
1:Az:749:ILE:HB	1:Az:759:ILE:HD12	1.88	0.55
1:Az:752:PRO:HG3	1:Az:781:MET:HE2	1.89	0.55
1:Az:753:GLU:OE1	40:CK:31:LYS:NZ	2.34	0.55
1:Az:845:LYS:NZ	1:Az:845:LYS:CA	2.69	0.55
2:Ag:8:ARG:NE	2:Ag:8:ARG:CA	2.30	0.55
2:Ag:51:ASN:O	2:Ag:53:GLY:O	2.25	0.55
2:Ag:172:LYS:HE3	2:Ag:192:THR:CG2	2.34	0.55
7:AM:67:ALA:CA	25:Af:114:ILE:HG21	2.37	0.55
8:AS:26:ILE:CG1	8:AS:59:LEU:HD21	2.36	0.55
8:AS:81:ASP:OD2	8:AS:95:TYR:HD2	1.89	0.55
13:AP:84:ILE:HG22	13:AP:86:LEU:CD2	2.36	0.55
13:AP:127:LYS:O	13:AP:127:LYS:CG	2.55	0.55
14:AT:82:ARG:HH11	36:B2:1590:C:H5"	1.72	0.55
14:AT:111:LYS:CG	14:AT:126:GLN:HE22	2.20	0.55
15:AB:63:LYS:C	15:AB:63:LYS:CD	2.79	0.55
17:AV:3:ASN:HB3	17:AV:9:VAL:HG23	1.89	0.55
18:AY:54:VAL:CG1	18:AY:76:TYR:CA	2.84	0.55
23:AD:117:ARG:CB	35:Ah:186:ASP:OD1	2.55	0.55
23:AD:175:VAL:O	23:AD:175:VAL:HG13	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:28:LYS:HZ3	24:Ae:28:LYS:HB3	1.72	0.55
27:AE:46:ILE:O	27:AE:50:ASN:HB2	2.06	0.55
27:AE:143:ASP:OD2	27:AE:145:ARG:CD	2.55	0.55
28:AC:83:LEU:HD22	28:AC:262:THR:HG21	1.87	0.55
28:AC:124:PHE:CE2	35:Ah:183:ASP:OD2	2.60	0.55
28:AC:255:LEU:HD12	28:AC:255:LEU:N	2.21	0.55
29:AG:159:ARG:HH22	29:AG:161:PRO:N	2.05	0.55
33:AI:66:SER:HA	33:AI:73:THR:HA	1.89	0.55
38:Cz:18:LEU:C	38:Cz:20:GLY:H	2.13	0.55
38:Cz:56:LYS:H	38:Cz:185:LEU:HD12	1.70	0.55
39:Cq:81:HIS:O	39:Cq:83:ARG:N	2.39	0.55
39:Cq:186:GLY:O	39:Cq:187:LEU:HB3	2.07	0.55
40:CK:59:THR:O	40:CK:60:VAL:CG2	2.54	0.55
45:Ca:59:LYS:N	49:CQ:172:ARG:NH2	2.55	0.55
46:CN:138:PHE:CD1	85:A5:18:C:H4'	2.41	0.55
46:CN:180:PHE:C	46:CN:184:ILE:CD1	2.79	0.55
47:CI:57:TYR:CD1	47:CI:130:HIS:CE1	2.94	0.55
47:CI:104:SER:CB	47:CI:112:GLN:CG	2.79	0.55
48:CD:187:SER:OG	48:CD:189:GLU:OE1	2.24	0.55
52:CS:16:CYS:N	52:CS:59:GLY:HA3	2.19	0.55
52:CS:82:LEU:CD2	52:CS:124:ILE:HD13	2.36	0.55
53:CT:11:THR:CB	53:CT:15:PHE:HD2	2.06	0.55
56:CX:41:ARG:NH1	56:CX:46:PHE:HE1	2.01	0.55
57:CY:58:VAL:O	57:CY:63:LYS:HG3	2.06	0.55
60:Cr:2:SER:OG	74:CC:287:THR:C	2.50	0.55
60:Cr:60:VAL:O	60:Cr:121:GLN:OE1	2.25	0.55
63:CB:32:PHE:HD2	63:CB:32:PHE:H	1.50	0.55
63:CB:231:VAL:HG13	63:CB:232:THR:N	2.22	0.55
63:CB:301:ASN:O	63:CB:304:SER:OG	2.23	0.55
63:CB:326:VAL:O	63:CB:326:VAL:HG13	2.06	0.55
66:Cd:98:SER:O	66:Cd:99:PRO:C	2.49	0.55
68:Cf:103:VAL:C	68:Cf:104:MET:HE2	2.32	0.55
69:Cg:46:CYS:HB3	69:Cg:86:CYS:CB	2.36	0.55
70:Ci:1:MET:O	70:Ci:2:ALA:HB3	2.07	0.55
71:Cj:16:HIS:HA	71:Cj:27:TYR:O	2.07	0.55
76:Cn:5:TRP:HA	76:Cn:5:TRP:CE3	2.41	0.55
78:Co:40:ARG:HG2	78:Co:40:ARG:NH2	2.20	0.55
81:CE:224:LYS:O	81:CE:226:ARG:NH1	2.40	0.55
81:CE:224:LYS:HG2	81:CE:226:ARG:HH12	1.62	0.55
82:CG:41:ILE:C	82:CG:43:GLN:CG	2.79	0.55
83:Ct:15:ILE:CG1	84:Cv:5:ALA:HB1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:5:THR:OG1	1:Az:6:VAL:N	2.37	0.55
1:Az:46:ILE:CG2	1:Az:454:MET:SD	2.95	0.55
1:Az:189:ILE:HG23	1:Az:203:ILE:CD1	2.37	0.55
1:Az:206:ASP:HB3	1:Az:207:PRO:HD3	0.56	0.55
1:Az:265:TYR:N	1:Az:265:TYR:CD1	2.74	0.55
1:Az:296:PRO:CA	1:Az:299:LYS:HE2	2.35	0.55
1:Az:723:PRO:O	1:Az:727:ARG:HB2	2.06	0.55
2:Ag:94:THR:OG1	2:Ag:95:GLY:N	2.38	0.55
2:Ag:162:ASN:ND2	2:Ag:163:PRO:HD3	2.16	0.55
4:AK:12:TYR:OH	4:AK:52:LEU:HD21	2.06	0.55
4:AK:66:HIS:ND1	23:AD:76:ARG:CD	2.67	0.55
10:AN:16:LEU:CD1	10:AN:62:GLN:HE22	2.03	0.55
11:AL:83:GLN:HG2	11:AL:83:GLN:O	2.06	0.55
12:AR:42:PRO:HD3	12:AR:46:LEU:HD23	1.89	0.55
13:AP:39:ALA:HA	13:AP:42:ARG:CG	2.37	0.55
14:AT:14:PHE:CZ	14:AT:131:LEU:HD12	2.42	0.55
14:AT:38:LYS:HD2	14:AT:46:ALA:CA	2.37	0.55
16:AA:122:LEU:HD12	16:AA:137:ALA:HB2	1.88	0.55
18:AY:44:LEU:HG	18:AY:75:ILE:HD11	1.88	0.55
18:AY:51:THR:CB	18:AY:52:PRO:CD	2.82	0.55
18:AY:54:VAL:HG13	18:AY:76:TYR:H	1.71	0.55
26:AJ:34:GLU:CB	26:AJ:35:TYR:CD2	2.89	0.55
28:AC:57:ASP:C	28:AC:58:LYS:HD2	2.18	0.55
28:AC:178:HIS:O	28:AC:220:ASP:HB2	2.06	0.55
28:AC:227:ARG:NH1	28:AC:228:GLY:HA3	2.19	0.55
31:AH:8:ILE:CG2	31:AH:9:VAL:H	2.19	0.55
31:AH:50:GLU:OE2	31:AH:90:LYS:CE	2.55	0.55
36:B2:526:A:C2	36:B2:560:A:C2	2.95	0.55
38:Cz:87:ILE:HG23	38:Cz:88:GLU:N	2.21	0.55
39:Cq:16:LYS:HD2	39:Cq:16:LYS:H	1.72	0.55
39:Cq:27:CYS:HB3	39:Cq:193:PHE:HD2	1.71	0.55
39:Cq:127:ASN:ND2	40:CK:2:PRO:HB2	2.21	0.55
39:Cq:214:ARG:CB	83:Cs:10:ILE:HD11	2.37	0.55
39:Cq:228:GLN:CB	84:Cu:54:VAL:HG13	2.36	0.55
42:CL:128:PRO:O	42:CL:130:LYS:N	2.40	0.55
42:CL:167:ARG:HH21	42:CL:170:THR:CG2	1.90	0.55
46:CN:72:LYS:NZ	46:CN:90:ASN:ND2	2.55	0.55
47:CI:28:ASP:CB	47:CI:32:ARG:NH2	2.56	0.55
47:CI:163:GLN:CD	47:CI:163:GLN:H	2.15	0.55
48:CD:21:ARG:NH1	48:CD:25:GLU:OE2	2.39	0.55
49:CQ:154:LYS:HD3	49:CQ:155:ALA:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:10:LEU:CD2	50:CR:41:ILE:HD11	2.37	0.55
51:CA:209:HIS:CE1	51:CA:211:PHE:CE2	2.92	0.55
52:CS:22:CYS:O	52:CS:22:CYS:SG	2.65	0.55
52:CS:38:VAL:HG13	52:CS:39:VAL:N	2.21	0.55
56:CX:120:ASP:O	56:CX:140:LEU:CD2	2.55	0.55
57:CY:74:TYR:HD1	57:CY:81:TYR:CE2	2.24	0.55
57:CY:81:TYR:HD1	57:CY:96:HIS:HB2	1.72	0.55
60:Cr:9:VAL:HG11	74:CC:136:LEU:CD2	2.36	0.55
60:Cr:76:SER:C	60:Cr:79:ARG:HH21	2.14	0.55
60:Cr:106:LEU:O	60:Cr:108:MET:N	2.40	0.55
60:Cr:123:PRO:O	60:Cr:128:ARG:NH2	2.40	0.55
61:Ch:9:LEU:HD12	61:Ch:56:ARG:NH1	2.22	0.55
63:CB:11:HIS:ND1	63:CB:237:THR:HA	2.22	0.55
63:CB:108:GLU:HG3	63:CB:137:TRP:CD2	2.36	0.55
63:CB:334:LYS:HD3	63:CB:334:LYS:C	2.31	0.55
64:CF:101:VAL:CG1	64:CF:106:ARG:CD	2.80	0.55
66:Cd:25:TYR:CD1	66:Cd:56:GLU:OE2	2.59	0.55
71:Cj:65:ARG:HG3	71:Cj:65:ARG:HH11	1.71	0.55
74:CC:62:THR:HG22	74:CC:63:SER:N	2.22	0.55
74:CC:134:PRO:CD	74:CC:135:ALA:H	2.12	0.55
74:CC:143:ARG:NH1	74:CC:143:ARG:CG	2.67	0.55
74:CC:307:LYS:O	74:CC:310:HIS:CE1	2.59	0.55
74:CC:318:PRO:C	74:CC:320:LYS:N	2.63	0.55
79:CJ:37:ALA:HB2	79:CJ:50:PHE:CE1	2.42	0.55
79:CJ:113:ILE:HD12	79:CJ:125:ILE:HG12	1.88	0.55
79:CJ:146:ARG:HG2	79:CJ:147:ARG:HG3	1.87	0.55
79:CJ:174:ILE:O	79:CJ:175:LEU:HD23	2.07	0.55
80:CH:41:ILE:CG2	80:CH:42:ASN:H	1.97	0.55
80:CH:110:SER:HB3	80:CH:128:MET:HG3	1.72	0.55
81:CE:85:LYS:O	81:CE:86:GLU:CB	2.53	0.55
81:CE:93:THR:C	81:CE:94:LYS:HD2	2.32	0.55
1:Az:79:TYR:CE2	1:Az:351:LEU:HD11	2.38	0.55
2:Ag:230:LEU:HD12	2:Ag:230:LEU:N	2.22	0.55
2:Ag:284:PRO:O	2:Ag:284:PRO:CD	2.52	0.55
4:AK:83:LEU:HD12	4:AK:85:LEU:CD2	2.23	0.55
8:AS:52:LEU:HD12	8:AS:52:LEU:C	2.31	0.55
8:AS:90:VAL:HG23	13:AP:18:ARG:CZ	2.37	0.55
8:AS:139:THR:O	8:AS:140:GLY:C	2.49	0.55
9:Ad:5:GLN:CD	9:Ad:7:TYR:HE2	2.14	0.55
11:AL:40:ILE:HG13	11:AL:68:ILE:HG13	1.88	0.55
13:AP:128:HIS:HD2	36:B2:1522:A:O5'	1.90	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AT:4:VAL:CG2	14:AT:136:GLY:HA2	2.35	0.55
15:AB:31:TYR:CE1	15:AB:94:LYS:CA	2.90	0.55
16:AA:118:GLU:CD	28:AC:65:LYS:HE2	2.29	0.55
16:AA:193:HIS:CG	16:AA:194:PRO:HD2	2.42	0.55
17:AV:15:ARG:NE	28:AC:83:LEU:O	2.39	0.55
17:AV:80:SER:CB	17:AV:81:LYS:CE	2.84	0.55
20:Aa:26:CYS:SG	20:Aa:74:CYS:SG	3.05	0.55
24:Ae:29:THR:O	24:Ae:30:GLY:O	2.25	0.55
26:AJ:81:LEU:HD12	26:AJ:97:ILE:CD1	2.37	0.55
27:AE:1:MET:HE1	36:B2:432:G:H8	1.69	0.55
27:AE:71:LYS:HG2	27:AE:76:VAL:H	1.72	0.55
27:AE:129:ILE:HG23	27:AE:139:LEU:HD23	1.88	0.55
27:AE:205:PHE:CE1	27:AE:221:ARG:CZ	2.90	0.55
29:AG:148:SER:C	29:AG:150:GLU:H	2.14	0.55
29:AG:164:LYS:O	29:AG:164:LYS:HG3	2.07	0.55
30:AF:166:ILE:H	30:AF:166:ILE:CD1	2.19	0.55
31:AH:10:LYS:HZ1	31:AH:17:ASP:CA	2.18	0.55
31:AH:11:PRO:HG2	31:AH:12:ASN:H	1.71	0.55
31:AH:135:PHE:HB3	31:AH:136:PRO:HD3	1.87	0.55
32:AW:10:ALA:O	32:AW:13:SER:OG	2.22	0.55
36:B2:532:C:H2'	36:B2:533:A:C8	2.42	0.55
38:Cz:30:GLU:OE1	38:Cz:210:MET:CA	2.54	0.55
39:Cq:80:PRO:HB2	39:Cq:81:HIS:ND1	2.18	0.55
39:Cq:199:TYR:HD1	39:Cq:203:VAL:C	2.14	0.55
39:Cq:268:PHE:O	39:Cq:272:PRO:HD2	1.93	0.55
41:CO:120:VAL:C	41:CO:124:LEU:HD13	2.32	0.55
41:CO:178:ARG:HG3	41:CO:182:GLU:OE2	2.07	0.55
41:CO:181:ALA:O	41:CO:183:LYS:N	2.39	0.55
44:CM:8:GLU:OE1	44:CM:9:VAL:O	2.24	0.55
44:CM:57:LEU:HD12	52:CS:154:LEU:HB2	1.87	0.55
44:CM:106:ASP:OD2	81:CE:161:ARG:NH2	2.39	0.55
46:CN:65:ARG:CG	46:CN:129:PHE:CE1	2.90	0.55
46:CN:114:ARG:C	46:CN:134:LEU:HD22	2.31	0.55
48:CD:95:TYR:CD2	48:CD:95:TYR:C	2.84	0.55
50:CR:44:LEU:CD2	50:CR:49:LEU:HB2	2.36	0.55
51:CA:248:GLY:O	51:CA:250:LYS:CB	2.54	0.55
52:CS:12:VAL:HB	52:CS:44:PHE:HD1	1.69	0.55
52:CS:74:ARG:O	52:CS:75:VAL:HG12	2.07	0.55
52:CS:113:MET:HG3	52:CS:124:ILE:HD13	1.87	0.55
56:CX:132:GLY:C	56:CX:133:GLU:OE1	2.50	0.55
57:CY:69:LYS:O	57:CY:69:LYS:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:50:ASN:HA	58:CW:55:TYR:CG	2.42	0.55
58:CW:119:LYS:C	58:CW:122:SER:OG	2.46	0.55
59:CZ:16:GLY:O	59:CZ:19:SER:HB3	2.06	0.55
59:CZ:30:ASP:O	59:CZ:39:SER:CB	2.55	0.55
59:CZ:46:ILE:HG22	59:CZ:118:PHE:CE2	2.41	0.55
60:Cr:35:ARG:HG2	60:Cr:35:ARG:HH21	1.71	0.55
63:CB:89:ILE:HD13	63:CB:153:MET:SD	2.46	0.55
65:Cc:11:LEU:HA	65:Cc:12:GLU:CD	2.31	0.55
70:Ci:44:ILE:HD11	70:Ci:48:CYS:SG	2.47	0.55
74:CC:41:HIS:NE2	74:CC:238:LEU:CD2	2.70	0.55
77:Cp:85:ARG:HH22	77:Cp:86:LEU:HD21	1.52	0.55
79:CJ:53:ALA:CB	79:CJ:68:ILE:HD12	2.35	0.55
79:CJ:62:ILE:HD12	79:CJ:68:ILE:CD1	2.37	0.55
81:CE:78:SER:HB2	81:CE:79:LYS:HA	1.88	0.55
81:CE:197:THR:HG22	81:CE:198:SER:N	2.22	0.55
83:Ct:22:THR:N	83:Ct:27:LYS:NZ	2.53	0.55
85:A5:1358:G:H2'	85:A5:1359:G:C8	2.42	0.55
85:A5:1367:C:C6	85:A5:1367:C:C3'	2.90	0.55
85:A5:1445:U:C2'	85:A5:1446:C:H5''	2.37	0.55
1:Az:12:ILE:HG22	1:Az:99:LEU:HD22	1.87	0.55
1:Az:41:CYS:SG	1:Az:49:ALA:HB2	2.47	0.55
1:Az:41:CYS:HA	1:Az:48:SER:O	2.06	0.55
1:Az:541:SER:O	1:Az:542:GLY:C	2.50	0.55
1:Az:562:GLU:HB3	1:Az:570:ILE:CD1	2.36	0.55
2:Ag:165:ILE:HG13	2:Ag:177:TRP:HB2	1.84	0.55
2:Ag:254:PRO:O	2:Ag:255:SER:HB3	2.07	0.55
6:AX:3:LYS:O	6:AX:4:CYS:C	2.50	0.55
8:AS:53:THR:C	8:AS:54:LYS:CA	2.72	0.55
11:AL:5:GLN:OE1	11:AL:10:TYR:HA	2.06	0.55
16:AA:125:THR:C	16:AA:147:LEU:HB2	2.32	0.55
17:AV:35:ASN:OD1	17:AV:52:THR:HB	2.07	0.55
19:AZ:103:HIS:CD2	19:AZ:105:ALA:CA	2.90	0.55
24:Ae:23:GLU:OE1	24:Ae:23:GLU:C	2.50	0.55
25:Af:89:LYS:O	25:Af:89:LYS:CG	2.30	0.55
27:AE:100:ARG:CD	27:AE:102:ILE:HD12	2.30	0.55
27:AE:123:LEU:CD1	27:AE:161:GLN:HA	2.37	0.55
27:AE:205:PHE:CD1	27:AE:221:ARG:CZ	2.89	0.55
29:AG:135:PRO:CD	29:AG:144:LEU:CD2	2.85	0.55
30:AF:15:PRO:HD3	34:AQ:56:LEU:HA	1.88	0.55
31:AH:9:VAL:CA	31:AH:11:PRO:HD3	2.35	0.55
32:AW:93:LEU:O	32:AW:93:LEU:CG	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:101:PHE:CD2	32:AW:129:PHE:HE1	2.25	0.55
34:AQ:43:GLU:HG2	34:AQ:45:ARG:CB	2.37	0.55
34:AQ:53:GLU:O	34:AQ:57:LEU:HG	2.07	0.55
34:AQ:144:SER:O	34:AQ:145:TYR:CB	2.55	0.55
38:Cz:91:LYS:CE	38:Cz:96:ASN:HD21	2.19	0.55
39:Cq:24:TYR:HB2	39:Cq:25:PRO:CD	2.32	0.55
39:Cq:78:LEU:HD21	39:Cq:193:PHE:CG	2.42	0.55
41:CO:63:ASN:O	41:CO:63:ASN:CG	2.49	0.55
42:CL:48:PRO:CB	42:CL:144:LEU:HD21	2.37	0.55
42:CL:75:GLY:HA3	42:CL:99:ASP:HB2	1.88	0.55
43:CV:57:VAL:CG2	43:CV:84:GLN:HG2	2.37	0.55
44:CM:77:TRP:CA	44:CM:82:ILE:CG1	2.85	0.55
45:Ca:62:HIS:O	45:Ca:62:HIS:CG	2.59	0.55
51:CA:94:ALA:HB3	51:CA:102:LEU:HD23	1.83	0.55
54:CP:101:ASN:O	54:CP:105:LYS:CE	2.55	0.55
56:CX:43:SER:CA	82:CG:51:LEU:CD1	2.83	0.55
58:CW:110:ARG:NE	58:CW:113:LYS:NZ	2.54	0.55
60:Cr:44:ILE:HG23	60:Cr:47:LYS:HG2	1.89	0.55
60:Cr:51:VAL:HG11	60:Cr:117:ILE:HD11	1.41	0.55
60:Cr:136:SER:C	60:Cr:137:SER:O	2.35	0.55
61:Ch:15:GLU:HG3	61:Ch:16:GLU:N	2.22	0.55
63:CB:299:ILE:N	63:CB:300:LYS:HG2	2.20	0.55
64:CF:89:LEU:HD21	64:CF:122:PHE:HB3	1.88	0.55
64:CF:197:VAL:CG1	64:CF:198:GLY:N	2.56	0.55
64:CF:213:LEU:HD11	64:CF:244:ILE:CD1	2.37	0.55
66:Cd:39:LYS:HA	66:Cd:77:ILE:HG21	1.88	0.55
68:Cf:9:ALA:HA	68:Cf:31:GLU:CD	2.32	0.55
70:Ci:11:LEU:HD13	70:Ci:12:ASN:ND2	2.21	0.55
70:Ci:44:ILE:CD1	70:Ci:48:CYS:SG	2.95	0.55
74:CC:28:PHE:CE1	74:CC:129:ALA:C	2.85	0.55
74:CC:236:ASN:OD1	74:CC:237:ILE:N	2.40	0.55
75:Cm:108:VAL:HG23	75:Cm:109:ASN:ND2	2.22	0.55
77:Cp:18:TYR:H	85:A5:3635:A:H61	1.55	0.55
79:CJ:13:ARG:HD3	79:CJ:136:ARG:HH11	1.71	0.55
81:CE:151:ILE:C	81:CE:194:VAL:HG13	2.31	0.55
81:CE:162:VAL:HG12	81:CE:163:VAL:N	2.21	0.55
85:A5:1928:C:O4'	85:A5:1928:C:N1	2.37	0.55
85:A5:4421:C:H42	85:A5:4475:G:H22	1.55	0.55
85:A5:4472:G:H2'	85:A5:4473:A:H5''	1.89	0.55
85:A5:4966:A:H61	85:A5:5067:U:H3	1.54	0.55
1:Az:126:LEU:HD11	1:Az:156:MET:CG	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:253:VAL:CG1	1:Az:257:MET:HE2	2.34	0.54
1:Az:398:ILE:HD11	1:Az:479:LEU:CD2	2.38	0.54
2:Ag:286:CYS:CB	2:Ag:302:TYR:CZ	2.76	0.54
4:AK:14:LEU:CG	4:AK:35:LEU:HD21	2.36	0.54
5:AO:52:THR:CG2	36:B2:953:C:C4'	2.82	0.54
8:AS:37:GLY:H	36:B2:1630:A:H5''	1.71	0.54
9:Ad:5:GLN:CA	9:Ad:7:TYR:CE2	2.90	0.54
10:AN:4:MET:CE	10:AN:124:ARG:HH22	2.19	0.54
10:AN:19:ARG:HH12	21:Ab:84:HIS:CB	2.20	0.54
10:AN:54:LEU:C	10:AN:60:VAL:HG22	2.33	0.54
10:AN:71:ILE:O	10:AN:75:LEU:HD13	2.06	0.54
13:AP:90:VAL:HG11	13:AP:109:PRO:HG3	1.88	0.54
14:AT:33:TRP:CD1	14:AT:34:VAL:H	2.24	0.54
16:AA:71:PRO:HB2	16:AA:95:GLY:HA3	1.88	0.54
19:AZ:61:GLU:HB3	19:AZ:65:TYR:OH	2.07	0.54
26:AJ:110:LEU:HD11	26:AJ:135:ILE:CD1	2.38	0.54
27:AE:117:GLU:HG3	27:AE:118:GLU:N	2.18	0.54
28:AC:70:VAL:HG22	28:AC:97:PHE:CZ	2.42	0.54
28:AC:179:THR:HG23	28:AC:180:VAL:H	1.72	0.54
31:AH:37:LYS:O	31:AH:38:ALA:HB3	2.08	0.54
34:AQ:7:LEU:HD22	34:AQ:27:ARG:HD2	1.88	0.54
34:AQ:115:TYR:HE2	34:AQ:119:LEU:HD11	1.72	0.54
36:B2:338:G:C6	36:B2:339:A:C6	2.94	0.54
36:B2:338:G:C4	36:B2:339:A:C8	2.95	0.54
36:B2:791:C:H2'	36:B2:792:C:C6	2.42	0.54
38:Cz:30:GLU:OE2	38:Cz:210:MET:HB2	2.07	0.54
39:Cq:230:GLY:HA2	39:Cq:236:SER:CB	2.37	0.54
39:Cq:232:PRO:O	39:Cq:233:THR:OG1	2.23	0.54
41:CO:192:TYR:CB	44:CM:122:ILE:CD1	2.70	0.54
44:CM:81:ASP:HB3	44:CM:84:THR:CG2	2.36	0.54
44:CM:113:MET:HE2	44:CM:117:LYS:HG3	1.89	0.54
47:CI:69:ARG:HH11	47:CI:70:ILE:CG1	2.13	0.54
48:CD:205:ALA:CB	48:CD:236:MET:SD	2.96	0.54
48:CD:273:LEU:HD12	48:CD:274:ALA:N	2.21	0.54
49:CQ:25:LEU:C	49:CQ:28:LEU:HG	2.30	0.54
50:CR:66:ASN:O	50:CR:70:ARG:HD2	2.05	0.54
52:CS:159:LEU:HD23	52:CS:159:LEU:O	2.03	0.54
55:CU:39:PHE:CE2	55:CU:70:ILE:HD13	2.36	0.54
56:CX:89:LYS:CE	56:CX:137:TYR:CD1	2.88	0.54
58:CW:12:LYS:NZ	63:CB:388:PHE:HB2	2.20	0.54
58:CW:14:TYR:HD1	63:CB:367:PHE:CZ	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:CZ:76:ASN:HD21	59:CZ:78:ASN:CG	2.15	0.54
60:Cr:27:THR:CA	60:Cr:31:ASN:HD21	2.17	0.54
62:Cb:7:HIS:CE1	85:A5:1672:U:H5''	2.41	0.54
62:Cb:36:ASP:O	62:Cb:37:PRO:C	2.49	0.54
63:CB:305:THR:HG23	63:CB:307:TYR:H	1.73	0.54
65:Cc:74:TYR:CD2	65:Cc:76:GLY:CA	2.88	0.54
66:Cd:18:ASN:O	66:Cd:20:VAL:N	2.39	0.54
67:Ce:6:PRO:CA	67:Ce:93:LYS:HE2	2.37	0.54
77:Cp:29:ILE:HG22	77:Cp:69:TRP:HD1	1.66	0.54
77:Cp:48:LYS:HD2	77:Cp:49:ARG:C	2.32	0.54
81:CE:153:LEU:CD1	81:CE:193:PHE:O	2.55	0.54
81:CE:212:LEU:HD12	81:CE:216:TYR:CB	1.97	0.54
81:CE:255:SER:O	81:CE:259:PRO:HD2	2.08	0.54
82:CG:160:ASP:OD2	82:CG:187:LYS:HG2	2.04	0.54
84:Cv:24:LYS:CG	84:Cv:39:LEU:HD13	2.37	0.54
85:A5:3762:U:H2'	85:A5:3763:A:O4'	2.07	0.54
85:A5:4751:G:N9	85:A5:4950:U:C5	2.75	0.54
1:Az:398:ILE:HD13	1:Az:479:LEU:HD23	1.88	0.54
1:Az:500:SER:O	1:Az:533:MET:HE1	2.08	0.54
1:Az:544:HIS:NE2	6:AX:97:ASN:ND2	2.54	0.54
2:Ag:69:VAL:HG22	2:Ag:70:VAL:N	2.23	0.54
5:AO:31:CYS:SG	5:AO:95:ILE:HG12	2.47	0.54
5:AO:35:ALA:HB2	5:AO:112:ALA:CB	2.23	0.54
5:AO:125:LYS:HZ1	20:Aa:58:VAL:CA	2.20	0.54
6:AX:27:TYR:CD2	6:AX:31:HIS:CD2	2.95	0.54
6:AX:139:GLU:C	6:AX:141:PRO:CD	2.66	0.54
8:AS:16:LEU:C	8:AS:17:ASN:OD1	2.50	0.54
10:AN:64:ARG:O	10:AN:67:THR:O	2.25	0.54
12:AR:5:ARG:CB	12:AR:10:LYS:HZ1	2.04	0.54
14:AT:38:LYS:O	14:AT:39:LEU:HB3	2.08	0.54
16:AA:149:ASN:N	16:AA:165:ASN:ND2	2.56	0.54
17:AV:76:ASP:C	17:AV:77:GLY:O	2.48	0.54
18:AY:46:LYS:O	18:AY:47:MET:HG2	2.07	0.54
18:AY:84:LYS:HD2	18:AY:84:LYS:C	2.27	0.54
18:AY:92:ALA:N	18:AY:97:TYR:CB	2.52	0.54
20:Aa:49:ALA:CB	20:Aa:53:ILE:CD1	2.85	0.54
23:AD:34:TYR:OH	23:AD:37:VAL:HG13	2.07	0.54
23:AD:120:TYR:OH	28:AC:146:GLU:CG	2.51	0.54
24:Ae:44:ASN:HB2	24:Ae:45:VAL:CG2	2.35	0.54
26:AJ:37:LEU:HG	26:AJ:38:ARG:H	1.72	0.54
29:AG:64:LYS:C	29:AG:64:LYS:HD2	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:122:PRO:HD2	29:AG:123:GLY:N	2.22	0.54
30:AF:42:LYS:O	30:AF:44:LYS:C	2.50	0.54
33:AI:191:GLU:CG	33:AI:192:GLY:N	2.70	0.54
35:Ah:153:VAL:HG12	35:Ah:154:ASP:H	1.72	0.54
35:Ah:154:ASP:O	35:Ah:155:ARG:NE	2.39	0.54
36:B2:1288:U:H3	36:B2:1311:C:H42	1.55	0.54
36:B2:1823:A:C4'	36:B2:1824:A:H1'	2.37	0.54
38:Cz:28:PHE:O	38:Cz:30:GLU:HG3	2.06	0.54
40:CK:102:GLY:O	40:CK:140:GLY:CA	2.56	0.54
46:CN:44:ARG:HH11	46:CN:44:ARG:CB	2.15	0.54
46:CN:65:ARG:HG2	46:CN:129:PHE:CE1	2.42	0.54
46:CN:77:LYS:C	46:CN:77:LYS:CD	2.64	0.54
48:CD:122:GLN:NE2	48:CD:125:VAL:CA	2.68	0.54
48:CD:197:LYS:HB3	48:CD:202:GLN:HB3	1.88	0.54
48:CD:270:LYS:C	48:CD:271:MET:HG2	2.30	0.54
49:CQ:70:MET:HE1	49:CQ:98:LEU:HD21	1.89	0.54
50:CR:132:PHE:HD1	50:CR:137:ILE:CD1	2.19	0.54
50:CR:134:ASN:OD1	50:CR:135:LYS:N	2.39	0.54
51:CA:77:ILE:HD11	51:CA:128:ARG:HH22	1.66	0.54
51:CA:118:GLU:OE1	51:CA:119:LYS:CD	2.54	0.54
51:CA:120:PRO:HG3	51:CA:162:ASN:N	2.22	0.54
53:CT:91:VAL:CG1	53:CT:92:ARG:H	2.19	0.54
56:CX:107:HIS:CE1	85:A5:2777:G:H5''	2.41	0.54
59:CZ:4:PHE:C	59:CZ:6:LYS:CD	2.78	0.54
69:Cg:83:CYS:O	69:Cg:84:ALA:HB3	2.06	0.54
75:Cm:86:ALA:HB1	80:CH:176:LEU:HB3	1.90	0.54
75:Cm:95:ILE:CD1	75:Cm:124:LYS:CG	2.65	0.54
78:Co:103:VAL:CG1	79:CJ:63:ARG:HB3	2.37	0.54
79:CJ:166:PHE:CD1	79:CJ:170:TYR:CD2	2.96	0.54
80:CH:187:VAL:O	80:CH:187:VAL:CG1	2.55	0.54
81:CE:176:THR:OG1	81:CE:186:LEU:HG	2.07	0.54
85:A5:2786:C:H5''	85:A5:2787:A:OP1	2.07	0.54
1:Az:4:PHE:CG	1:Az:5:THR:HG22	2.35	0.54
1:Az:24:VAL:HG22	1:Az:32:LYS:HE3	1.85	0.54
1:Az:43:ALA:O	1:Az:44:GLY:C	2.34	0.54
1:Az:140:GLU:HG3	1:Az:188:ILE:CD1	2.36	0.54
1:Az:183:GLU:OE1	1:Az:183:GLU:CA	2.55	0.54
1:Az:241:GLU:N	1:Az:243:GLN:OE1	2.31	0.54
1:Az:496:VAL:HG23	1:Az:497:MET:SD	2.37	0.54
1:Az:500:SER:O	1:Az:501:VAL:HB	2.07	0.54
1:Az:589:VAL:HG12	1:Az:590:LEU:N	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:592:LEU:HD12	1:Az:593:SER:N	2.19	0.54
2:Ag:194:TYR:CZ	2:Ag:212:LYS:CB	2.85	0.54
6:AX:105:PHE:CE2	6:AX:118:VAL:C	2.86	0.54
7:AM:77:ILE:CG2	7:AM:78:LYS:N	2.68	0.54
10:AN:38:TYR:CE1	10:AN:78:LYS:NZ	2.76	0.54
10:AN:116:ILE:CA	10:AN:119:GLU:HG3	2.37	0.54
14:AT:77:LYS:CD	14:AT:92:PHE:HE2	2.11	0.54
15:AB:58:ALA:H	82:CG:264:LYS:NZ	2.04	0.54
15:AB:68:GLU:CD	15:AB:83:LYS:HE2	2.32	0.54
16:AA:32:PHE:HA	16:AA:35:GLU:OE1	2.08	0.54
16:AA:132:GLN:N	16:AA:133:PRO:HD3	2.22	0.54
19:AZ:99:LEU:HD21	19:AZ:102:LYS:HD3	1.79	0.54
21:Ab:8:LEU:HD13	32:AW:51:GLU:OE1	2.08	0.54
23:AD:35:SER:C	23:AD:99:ILE:HD11	2.29	0.54
23:AD:58:VAL:HG23	23:AD:59:LEU:N	2.21	0.54
23:AD:77:PHE:O	23:AD:79:PHE:N	2.40	0.54
23:AD:117:ARG:HG3	35:Ah:186:ASP:CG	2.31	0.54
24:Ae:5:SER:OG	24:Ae:7:ALA:N	2.39	0.54
27:AE:71:LYS:HG2	27:AE:76:VAL:N	2.21	0.54
29:AG:64:LYS:CD	29:AG:65:GLN:O	2.56	0.54
29:AG:210:ALA:HA	29:AG:213:LEU:HD23	1.85	0.54
33:AI:148:LYS:CE	33:AI:152:ARG:NH2	2.71	0.54
34:AQ:44:PRO:O	34:AQ:45:ARG:CG	2.55	0.54
34:AQ:138:ARG:HG2	36:B2:1649:U:H4'	1.87	0.54
35:Ah:148:GLY:C	35:Ah:150:GLU:H	2.15	0.54
36:B2:616:A:H61	36:B2:629:A:H61	1.56	0.54
36:B2:887:U:C5	36:B2:888:U:C5	2.96	0.54
36:B2:1063:C:C6	36:B2:1064:C:C5	2.95	0.54
38:Cz:85:MET:SD	38:Cz:89:ALA:HB2	2.48	0.54
40:CK:113:ALA:HA	40:CK:116:MET:CG	2.37	0.54
41:CO:195:VAL:HG11	44:CM:119:ARG:H	1.72	0.54
42:CL:148:THR:C	42:CL:149:GLN:CD	2.75	0.54
44:CM:86:TRP:O	44:CM:89:THR:OG1	2.16	0.54
46:CN:146:PRO:O	46:CN:147:ASP:C	2.49	0.54
47:CI:60:LEU:C	47:CI:126:VAL:HG13	2.33	0.54
47:CI:92:HIS:CB	47:CI:94:PHE:CZ	2.89	0.54
47:CI:206:LEU:HA	47:CI:209:TRP:HB2	1.90	0.54
48:CD:113:PHE:CE1	48:CD:142:PHE:CE1	2.94	0.54
48:CD:123:VAL:HA	48:CD:248:ARG:HH12	1.72	0.54
49:CQ:92:VAL:O	49:CQ:112:ARG:NH2	2.41	0.54
59:CZ:41:ALA:N	59:CZ:77:TYR:CE1	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:42:GLY:O	60:Cr:43:LEU:C	2.45	0.54
60:Cr:90:LEU:HD23	60:Cr:118:LEU:CD1	2.25	0.54
63:CB:311:ASP:OD1	63:CB:312:LYS:N	2.40	0.54
67:Ce:22:ARG:HG2	67:Ce:23:HIS:N	2.21	0.54
69:Cg:77:ALA:C	69:Cg:79:GLY:H	2.06	0.54
70:Ci:58:MET:HE1	70:Ci:91:SER:HA	1.90	0.54
74:CC:146:GLU:O	74:CC:175:LYS:HE2	2.07	0.54
74:CC:158:VAL:CA	74:CC:161:TYR:CE2	2.72	0.54
74:CC:232:VAL:HG12	74:CC:263:LEU:HD12	1.90	0.54
77:Cp:49:ARG:CB	77:Cp:55:TRP:CH2	2.90	0.54
81:CE:152:ILE:HG23	81:CE:152:ILE:O	2.07	0.54
81:CE:175:VAL:O	81:CE:186:LEU:CA	2.55	0.54
82:CG:106:THR:C	82:CG:107:LYS:HE2	2.32	0.54
83:Cs:9:CYS:HB2	83:Cs:47:PHE:CE1	2.41	0.54
83:Cs:15:ILE:HG12	84:Cu:5:ALA:HB3	1.89	0.54
83:Ct:21:VAL:CG1	83:Ct:27:LYS:NZ	2.56	0.54
84:Cu:3:TYR:C	84:Cu:7:TYR:CD2	2.83	0.54
1:Az:24:VAL:HG23	1:Az:24:VAL:O	2.06	0.54
1:Az:48:SER:O	1:Az:49:ALA:HB2	2.08	0.54
1:Az:51:ALA:O	1:Az:53:GLU:N	2.40	0.54
1:Az:81:LEU:HB3	1:Az:86:LEU:HD12	1.89	0.54
1:Az:121:VAL:HG23	1:Az:122:THR:N	2.23	0.54
1:Az:126:LEU:HD13	1:Az:353:MET:CE	2.38	0.54
1:Az:154:VAL:C	1:Az:205:ILE:HD11	2.32	0.54
1:Az:189:ILE:HG23	1:Az:203:ILE:HD12	1.88	0.54
1:Az:604:MET:HE2	1:Az:732:SER:OG	2.08	0.54
1:Az:650:TRP:HH2	1:Az:672:LEU:HD11	1.71	0.54
1:Az:713:ALA:HB2	1:Az:716:ARG:NH2	2.23	0.54
1:Az:801:ARG:HD2	1:Az:801:ARG:C	2.32	0.54
2:Ag:32:LEU:HD21	2:Ag:69:VAL:HG21	1.89	0.54
5:AO:28:PHE:HB3	5:AO:47:LEU:HD11	1.89	0.54
5:AO:31:CYS:SG	5:AO:95:ILE:CG1	2.95	0.54
5:AO:133:THR:O	15:AB:107:ARG:NH1	2.40	0.54
6:AX:128:VAL:O	6:AX:129:SER:OG	2.24	0.54
8:AS:34:LYS:HD3	8:AS:34:LYS:N	2.23	0.54
10:AN:22:VAL:HB	10:AN:23:PRO:C	2.32	0.54
12:AR:1:MET:O	12:AR:2:GLY:C	2.40	0.54
14:AT:9:VAL:CG1	14:AT:13:GLU:HG3	2.37	0.54
15:AB:175:GLU:HG2	15:AB:193:ILE:HD12	1.86	0.54
16:AA:125:THR:C	16:AA:147:LEU:CB	2.79	0.54
18:AY:35:VAL:CG1	18:AY:36:PRO:HD2	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:92:LEU:CD1	19:AZ:109:TYR:HE1	2.19	0.54
23:AD:18:LYS:CD	23:AD:18:LYS:C	2.78	0.54
24:Ae:42:PHE:N	24:Ae:45:VAL:HG21	2.22	0.54
27:AE:130:PHE:HB3	27:AE:138:HIS:ND1	2.23	0.54
28:AC:189:GLY:O	28:AC:190:SER:CB	2.55	0.54
29:AG:3:LEU:CD2	29:AG:109:LEU:HB2	2.38	0.54
29:AG:64:LYS:CD	29:AG:65:GLN:C	2.80	0.54
29:AG:76:LEU:HD13	29:AG:92:ARG:HD2	1.89	0.54
29:AG:170:ARG:HD2	29:AG:172:LYS:HG2	1.88	0.54
31:AH:120:ARG:HH12	36:B2:913:A:H2'	1.72	0.54
33:AI:98:LYS:HD3	33:AI:178:ARG:NE	2.21	0.54
36:B2:685:A:C2	36:B2:918:U:C2	2.96	0.54
36:B2:1748:G:H1	36:B2:1786:U:H3	1.55	0.54
39:Cq:39:GLN:NE2	39:Cq:107:VAL:HB	2.22	0.54
43:CV:43:LYS:HB2	43:CV:60:MET:O	2.07	0.54
45:Ca:62:HIS:CG	85:A5:315:G:C8	2.95	0.54
47:CI:20:SER:H	47:CI:23:CYS:HB2	1.72	0.54
48:CD:225:GLN:HE22	86:A7:49:A:H5''	1.72	0.54
49:CQ:17:GLU:HA	49:CQ:33:ARG:HH22	1.72	0.54
49:CQ:57:ASN:C	49:CQ:59:PRO:HD3	2.31	0.54
50:CR:170:ARG:HG2	50:CR:173:ARG:NH2	2.22	0.54
53:CT:122:LYS:CB	53:CT:124:THR:OG1	2.44	0.54
58:CW:87:LEU:CD2	58:CW:90:ILE:HD13	2.14	0.54
58:CW:110:ARG:NE	58:CW:113:LYS:HZ1	2.00	0.54
60:Cr:35:ARG:HH21	60:Cr:35:ARG:CG	2.20	0.54
60:Cr:71:ARG:CB	60:Cr:79:ARG:CD	2.85	0.54
60:Cr:117:ILE:C	60:Cr:120:SER:HG	2.09	0.54
61:Ch:86:LYS:CD	61:Ch:87:LYS:N	2.69	0.54
63:CB:60:VAL:HG21	63:CB:72:VAL:HG11	1.89	0.54
64:CF:216:PRO:HD3	64:CF:247:MET:HG2	1.88	0.54
68:Cf:11:PHE:HE1	68:Cf:26:ALA:CB	2.21	0.54
72:Ck:57:LYS:O	72:Ck:60:LEU:HG	2.06	0.54
74:CC:28:PHE:CZ	74:CC:128:LEU:O	2.60	0.54
74:CC:310:HIS:CG	74:CC:311:ARG:CD	2.71	0.54
74:CC:322:LEU:CD2	74:CC:336:ARG:NH2	2.70	0.54
75:Cm:105:PRO:CG	75:Cm:106:ARG:CD	2.79	0.54
77:Cp:85:ARG:NH2	77:Cp:86:LEU:HG	2.23	0.54
81:CE:31:ASN:HA	81:CE:32:LEU:CD2	2.33	0.54
81:CE:137:VAL:HG12	81:CE:138:ARG:N	2.20	0.54
82:CG:39:PHE:CE1	82:CG:47:PRO:CD	2.75	0.54
1:Az:43:ALA:O	1:Az:45:ILE:CG2	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:281:GLU:CD	1:Az:281:GLU:H	2.15	0.54
1:Az:609:PHE:HD1	1:Az:610:PRO:HD2	1.72	0.54
2:Ag:266:ILE:O	2:Ag:266:ILE:HG23	2.05	0.54
3:Au:54:VAL:O	3:Au:56:MET:SD	2.66	0.54
11:Al:96:ILE:HD13	11:Al:102:PHE:HA	1.89	0.54
12:Ar:87:GLU:O	12:Ar:88:VAL:CB	2.56	0.54
13:Ap:30:TYR:O	13:Ap:34:MET:CG	2.54	0.54
13:Ap:70:MET:HG3	13:Ap:71:GLU:OE2	2.07	0.54
14:At:18:LEU:HB2	14:At:134:ILE:HD12	1.87	0.54
14:At:31:PRO:CD	14:At:102:ARG:HG3	2.38	0.54
16:AA:14:ASP:HB3	16:AA:18:PHE:CE2	2.34	0.54
16:AA:32:PHE:CE1	16:AA:33:GLN:CD	2.85	0.54
24:Ae:39:ASN:O	24:Ae:44:ASN:CB	2.53	0.54
26:Aj:143:ASN:O	26:Aj:143:ASN:CG	2.49	0.54
26:Aj:164:PRO:HB2	26:Aj:165:TYR:CD1	2.43	0.54
27:Ae:229:GLY:HA2	27:Ae:235:TRP:HD1	1.66	0.54
30:Af:192:LYS:HD2	30:Af:192:LYS:O	2.08	0.54
33:Ai:21:TYR:O	33:Ai:22:HIS:O	2.25	0.54
34:Aq:116:ASP:CG	34:Aq:117:ARG:N	2.65	0.54
36:B2:555:A:C6	36:B2:556:U:C4	2.95	0.54
38:Cz:59:PRO:HD2	38:Cz:153:SER:CA	2.37	0.54
39:Cq:111:ALA:HB1	39:Cq:183:PHE:CE1	2.43	0.54
39:Cq:130:LEU:HD23	39:Cq:131:GLY:N	2.20	0.54
39:Cq:235:ALA:O	39:Cq:238:PRO:CD	2.55	0.54
41:Co:128:ARG:HE	52:Cs:161:ARG:NE	2.06	0.54
42:Cl:83:VAL:HG11	42:Cl:114:VAL:HG21	1.89	0.54
42:Cl:103:ARG:HD2	85:A5:75:G:O6	2.07	0.54
46:CN:104:GLU:HG2	46:CN:161:MET:SD	2.48	0.54
47:CI:23:CYS:O	47:CI:24:ARG:C	2.47	0.54
47:CI:76:MET:SD	47:CI:138:ILE:HD13	2.48	0.54
49:CQ:55:ARG:CD	49:CQ:58:ARG:HH22	2.16	0.54
49:CQ:178:ARG:CD	49:CQ:185:GLY:HA3	2.23	0.54
50:CR:47:ASP:OD2	50:CR:49:LEU:HD12	2.07	0.54
51:CA:248:GLY:O	51:CA:250:LYS:CA	2.55	0.54
53:CT:45:MET:O	53:CT:95:HIS:CE1	2.58	0.54
54:CP:71:ALA:HB2	85:A5:4982:A:OP1	2.07	0.54
58:CW:20:ARG:HH11	58:CW:28:VAL:HG11	0.72	0.54
58:CW:86:SER:O	58:CW:90:ILE:CD1	2.52	0.54
58:CW:97:LYS:HG3	58:CW:98:PRO:CD	2.37	0.54
59:CZ:53:VAL:CG2	59:CZ:54:THR:H	2.18	0.54
59:CZ:95:VAL:HG21	59:CZ:117:LYS:HZ2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:51:VAL:HG23	60:Cr:113:ARG:HG3	1.88	0.54
63:CB:239:LYS:NZ	85:A5:3844:U:H3'	2.22	0.54
63:CB:282:LYS:CG	63:CB:333:LEU:HD21	2.37	0.54
63:CB:352:LEU:HD23	63:CB:353:VAL:CA	2.38	0.54
69:Cg:3:GLN:HG3	69:Cg:29:ARG:NH2	2.22	0.54
71:Cj:12:ARG:CZ	71:Cj:12:ARG:CB	2.85	0.54
74:CC:110:ARG:CD	74:CC:113:ARG:HH21	2.12	0.54
79:CJ:90:ARG:HH22	79:CJ:108:GLY:H	0.56	0.54
80:CH:5:LEU:HD12	80:CH:5:LEU:O	2.08	0.54
81:CE:56:ARG:CG	81:CE:57:TYR:HA	2.38	0.54
82:CG:183:ILE:CG2	82:CG:184:ILE:O	2.56	0.54
83:Cs:15:ILE:CG1	84:Cu:5:ALA:HB1	2.37	0.54
85:A5:1435:G:H1	85:A5:1449:C:H42	1.56	0.54
85:A5:2666:U:C4	85:A5:2669:C:N3	2.76	0.54
1:Az:170:GLU:HG2	1:Az:171:PRO:N	2.23	0.54
1:Az:206:ASP:CA	1:Az:212:VAL:CG2	2.86	0.54
1:Az:240:GLY:C	1:Az:243:GLN:CD	2.75	0.54
1:Az:398:ILE:HD11	1:Az:479:LEU:HD23	1.88	0.54
1:Az:745:TYR:CZ	1:Az:746:LEU:CB	2.71	0.54
1:Az:753:GLU:HA	1:Az:782:PHE:CD1	2.40	0.54
1:Az:762:VAL:HG12	1:Az:796:PHE:HE1	1.73	0.54
2:Ag:100:ARG:NH1	2:Ag:100:ARG:CB	2.71	0.54
2:Ag:198:VAL:HG12	2:Ag:199:THR:N	2.22	0.54
4:AK:37:ASP:C	4:AK:38:LYS:HD3	2.33	0.54
6:AX:28:LYS:CE	6:AX:32:LEU:HD11	2.37	0.54
11:AL:8:ARG:HA	33:AI:201:LYS:NZ	2.23	0.54
11:AL:156:GLN:CD	11:AL:158:PHE:HE2	2.12	0.54
18:AY:63:HIS:HB2	18:AY:68:LYS:HD3	1.88	0.54
21:Ab:16:LYS:HG3	31:AH:194:LEU:HB2	1.89	0.54
23:AD:79:PHE:CE1	23:AD:83:SER:HB3	2.42	0.54
30:AF:76:MET:HE1	30:AF:169:ILE:CG2	2.22	0.54
35:Ah:167:GLY:O	35:Ah:168:LEU:CB	2.55	0.54
35:Ah:296:ILE:HG22	35:Ah:298:ASN:HD22	1.68	0.54
36:B2:1528:G:H22	36:B2:1665:G:N2	2.05	0.54
39:Cq:225:VAL:HG23	84:Cu:55:ILE:HG12	1.88	0.54
40:CK:58:ILE:CG2	40:CK:59:THR:N	2.70	0.54
41:CO:198:THR:CG2	44:CM:115:ALA:CB	2.86	0.54
43:CV:88:TYR:CD1	43:CV:89:ARG:N	2.76	0.54
46:CN:46:ASP:O	46:CN:50:ARG:NH2	2.40	0.54
46:CN:99:GLN:CD	46:CN:130:PHE:CE1	2.86	0.54
47:CI:12:CYS:HB3	47:CI:57:TYR:CZ	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:101:LYS:CG	47:CI:102:MET:N	2.70	0.54
49:CQ:144:LYS:NZ	49:CQ:149:TYR:CZ	2.74	0.54
51:CA:254:GLU:HB3	51:CA:256:GLU:N	2.23	0.54
54:CP:27:LYS:CD	54:CP:63:TYR:HB3	2.36	0.54
58:CW:21:TYR:CE2	58:CW:23:ARG:CB	2.91	0.54
59:CZ:136:PHE:HB2	69:Cg:90:ARG:HB3	1.90	0.54
61:Ch:50:VAL:C	61:Ch:53:SER:HG	2.11	0.54
63:CB:44:THR:HG23	63:CB:184:GLN:O	2.08	0.54
63:CB:245:HIS:CE1	85:A5:1593:A:OP1	2.61	0.54
65:Cc:42:LYS:HG2	65:Cc:97:ILE:HG12	1.89	0.54
66:Cd:105:LEU:HD12	66:Cd:105:LEU:C	2.33	0.54
67:Ce:5:ARG:CZ	67:Ce:93:LYS:CD	2.80	0.54
67:Ce:80:HIS:HB2	67:Ce:84:GLU:CD	2.32	0.54
68:Cf:8:LYS:NZ	81:CE:279:ASN:C	2.65	0.54
69:Cg:60:ARG:N	69:Cg:60:ARG:HD2	2.21	0.54
69:Cg:106:VAL:HG13	69:Cg:107:LEU:N	2.23	0.54
73:CI:2:SER:HB3	73:CI:5:LYS:CD	2.38	0.54
74:CC:156:ASP:OD1	74:CC:255:SER:CB	2.56	0.54
74:CC:335:MET:O	74:CC:338:ASN:O	2.25	0.54
80:CH:129:ARG:HD3	80:CH:130:PRO:CD	2.35	0.54
80:CH:183:GLU:OE2	80:CH:184:LYS:C	2.50	0.54
82:CG:31:LEU:H	82:CG:31:LEU:HD13	1.72	0.54
82:CG:255:LYS:CE	82:CG:259:LYS:HE2	2.37	0.54
83:Ct:13:ALA:C	83:Ct:17:HIS:CD2	2.86	0.54
85:A5:512:U:H2'	85:A5:513:U:H5'	1.89	0.54
1:Az:58:ASP:O	1:Az:64:GLN:N	2.41	0.54
1:Az:118:ALA:O	1:Az:122:THR:OG1	2.26	0.54
1:Az:482:THR:OG1	1:Az:496:VAL:HG21	2.08	0.54
2:Ag:41:ILE:HD13	2:Ag:58:ALA:HA	1.90	0.54
3:Au:73:GLY:C	3:Au:74:SER:O	2.50	0.54
4:AK:4:PRO:CG	4:AK:7:ASN:HB2	2.25	0.54
8:AS:30:ILE:HG22	8:AS:36:VAL:HG21	1.88	0.54
15:AB:98:THR:O	15:AB:232:HIS:HE1	1.91	0.54
16:AA:58:LEU:HD21	16:AA:178:LEU:CG	2.28	0.54
16:AA:169:HIS:CD2	16:AA:203:PHE:CE2	2.95	0.54
17:AV:55:ILE:HG21	17:AV:60:ARG:HG2	1.90	0.54
18:AY:17:LEU:HA	27:AE:69:PHE:CZ	2.43	0.54
18:AY:19:GLN:CD	18:AY:85:ASN:HD21	2.13	0.54
21:Ab:32:PHE:O	21:Ab:81:ARG:C	2.50	0.54
22:Ac:10:LYS:HD3	22:Ac:34:PHE:CE1	2.38	0.54
28:AC:124:PHE:HE2	35:Ah:183:ASP:OD2	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:63:MET:HE3	29:AG:106:LEU:HD13	1.83	0.54
31:AH:12:ASN:ND2	31:AH:46:THR:CB	2.67	0.54
32:AW:128:PHE:HD1	32:AW:129:PHE:CA	2.20	0.54
33:AI:7:ASN:O	33:AI:9:HIS:C	2.51	0.54
33:AI:150:ASP:OD2	33:AI:150:ASP:C	2.50	0.54
35:Ah:141:PRO:HB2	36:B2:1236:G:H4'	1.90	0.54
36:B2:1551:U:C5	36:B2:1577:G:C2	2.95	0.54
39:Cq:191:GLN:CD	39:Cq:198:ILE:CG2	2.81	0.54
39:Cq:261:LEU:O	39:Cq:262:ALA:C	2.51	0.54
40:CK:83:LYS:O	40:CK:86:LYS:HB2	2.08	0.54
40:CK:121:LEU:HB2	40:CK:129:ILE:CD1	2.37	0.54
41:CO:85:ARG:HG2	41:CO:86:GLY:N	2.22	0.54
41:CO:132:THR:OG1	41:CO:133:ARG:HD3	2.08	0.54
41:CO:184:ASN:O	41:CO:188:LYS:CB	2.55	0.54
42:CL:190:ARG:HH11	42:CL:190:ARG:CG	2.19	0.54
44:CM:39:ASP:OD2	44:CM:47:ARG:HB2	2.07	0.54
44:CM:42:CYS:C	44:CM:44:GLN:H	2.15	0.54
45:Ca:95:THR:HG22	45:Ca:96:GLY:N	2.22	0.54
45:Ca:147:VAL:HG12	45:Ca:148:ALA:H	1.72	0.54
46:CN:96:ARG:NH2	46:CN:104:GLU:OE2	2.41	0.54
46:CN:186:GLY:HA3	46:CN:191:ALA:H	1.73	0.54
47:CI:41:ALA:HB3	47:CI:139:ARG:HH22	1.67	0.54
50:CR:32:ILE:HD12	50:CR:44:LEU:HD11	1.65	0.54
50:CR:45:ILE:HG23	50:CR:46:LYS:N	2.23	0.54
51:CA:32:VAL:CG2	51:CA:121:GLY:HA2	2.38	0.54
56:CX:77:ILE:HD13	56:CX:113:VAL:HG22	1.88	0.54
57:CY:79:VAL:HG11	57:CY:98:GLY:CA	2.37	0.54
60:Cr:97:ILE:HG21	60:Cr:110:ALA:CB	2.37	0.54
61:Ch:39:GLY:O	61:Ch:40:ALA:CB	2.52	0.54
63:CB:54:THR:CG2	63:CB:76:VAL:HG21	2.36	0.54
64:CF:51:TYR:CD2	81:CE:58:SER:HB2	2.37	0.54
65:Cc:10:SER:OG	65:Cc:11:LEU:N	2.39	0.54
65:Cc:13:SER:O	65:Cc:17:ARG:NE	2.35	0.54
65:Cc:37:MET:HG2	65:Cc:42:LYS:C	2.33	0.54
66:Cd:40:LYS:C	66:Cd:43:PRO:CD	2.81	0.54
67:Ce:3:ALA:CB	67:Ce:121:ARG:HH11	2.20	0.54
67:Ce:85:LEU:HD11	67:Ce:115:ALA:HB2	1.89	0.54
68:Cf:5:LEU:CD2	85:A5:4948:C:H42	2.17	0.54
72:Ck:45:LEU:HD21	72:Ck:47:ILE:HD11	1.89	0.54
79:CJ:53:ALA:CB	79:CJ:68:ILE:CD1	2.76	0.54
83:Ct:16:LEU:CG	83:Ct:31:LEU:CD1	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:Cu:30:VAL:O	84:Cu:30:VAL:CG1	2.56	0.54
85:A5:4751:G:C4	85:A5:4950:U:H5	2.25	0.54
1:Az:130:ASP:OD2	1:Az:132:VAL:HG22	2.08	0.54
1:Az:162:ARG:O	1:Az:166:GLU:CG	2.49	0.54
1:Az:753:GLU:CD	1:Az:782:PHE:HE1	2.16	0.54
1:Az:753:GLU:OE2	1:Az:782:PHE:CE1	2.61	0.54
1:Az:759:ILE:CD1	1:Az:784:VAL:CG1	2.77	0.54
1:Az:804:THR:HG21	1:Az:808:ALA:HB2	1.90	0.54
1:Az:830:ARG:CB	1:Az:831:PRO:CD	2.84	0.54
2:Ag:64:HIS:CG	2:Ag:83:TRP:HB2	2.43	0.54
2:Ag:163:PRO:HB3	2:Ag:179:LEU:HD12	1.89	0.54
2:Ag:227:LEU:HB3	2:Ag:228:TYR:HD1	1.73	0.54
5:AO:34:PHE:HE1	5:AO:99:ALA:C	2.15	0.54
5:AO:56:VAL:HG13	5:AO:81:VAL:HG23	1.78	0.54
8:AS:11:HIS:O	8:AS:12:ILE:HB	2.08	0.54
8:AS:117:ILE:C	8:AS:118:ARG:CG	2.66	0.54
8:AS:124:ARG:HB2	8:AS:131:VAL:HG22	1.90	0.54
11:AL:59:LYS:CE	11:AL:134:LEU:HD21	2.37	0.54
13:AP:70:MET:CE	79:CJ:93:GLU:OE1	2.55	0.54
13:AP:77:LYS:O	13:AP:78:THR:HG22	2.06	0.54
14:AT:83:GLN:NE2	14:AT:85:ASN:N	2.56	0.54
16:AA:173:LEU:O	16:AA:177:MET:HG2	2.07	0.54
19:AZ:44:LEU:HD11	19:AZ:46:ASN:CG	2.32	0.54
21:Ab:1:MET:N	21:Ab:2:PRO:CD	2.71	0.54
25:Af:140:TYR:CZ	25:Af:146:LEU:CA	2.80	0.54
26:AJ:89:GLU:C	26:AJ:91:LYS:O	2.50	0.54
27:AE:49:ARG:O	27:AE:49:ARG:CD	2.42	0.54
29:AG:64:LYS:HE3	29:AG:65:GLN:O	2.08	0.54
33:AI:174:CYS:HB2	33:AI:190:LEU:HD21	1.90	0.54
36:B2:688:U:H1'	36:B2:742:U:O4	2.07	0.54
36:B2:693:A:C2	36:B2:737:G:O6	2.60	0.54
36:B2:852:G:C3'	36:B2:853:C:C5'	2.85	0.54
36:B2:852:G:C5'	36:B2:853:C:OP2	2.51	0.54
36:B2:1028:A:H5''	36:B2:1029:G:OP2	2.07	0.54
36:B2:1240:A:H2'	36:B2:1241:A:H5'	1.88	0.54
38:Cz:14:VAL:HG23	38:Cz:15:ARG:N	2.21	0.54
39:Cq:75:LEU:CD2	39:Cq:78:LEU:HD12	2.28	0.54
39:Cq:80:PRO:C	39:Cq:81:HIS:CG	2.69	0.54
39:Cq:184:SER:O	39:Cq:185:PHE:CB	2.56	0.54
40:CK:12:VAL:HG12	40:CK:65:GLN:OE1	2.05	0.54
40:CK:15:LEU:HD11	40:CK:60:VAL:HG13	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:68:ARG:HH21	85:A5:4565:C:P	2.31	0.54
41:CO:82:ARG:CA	41:CO:85:ARG:HD2	2.23	0.54
41:CO:196:LEU:HD13	44:CM:119:ARG:NH2	2.22	0.54
42:CL:21:ARG:C	46:CN:197:THR:HG22	2.32	0.54
42:CL:116:ARG:NH1	42:CL:155:MET:CB	2.67	0.54
45:Ca:82:VAL:HG11	45:Ca:86:THR:OG1	2.03	0.54
48:CD:130:TYR:CD2	48:CD:130:TYR:O	2.58	0.54
48:CD:246:ALA:O	48:CD:249:GLU:HG3	2.00	0.54
48:CD:265:ARG:HG3	48:CD:266:TRP:CD1	2.43	0.54
49:CQ:105:VAL:HG13	49:CQ:109:ALA:HB3	1.89	0.54
49:CQ:144:LYS:HE2	49:CQ:149:TYR:CE1	2.42	0.54
50:CR:103:ARG:NH1	50:CR:124:TYR:CE2	2.76	0.54
51:CA:139:HIS:CE1	51:CA:146:THR:HG21	2.41	0.54
54:CP:51:VAL:HA	54:CP:56:GLN:O	2.08	0.54
54:CP:78:TRP:HA	54:CP:78:TRP:HE3	1.72	0.54
54:CP:105:LYS:CB	54:CP:107:LEU:CD2	2.86	0.54
55:CU:23:LEU:HD22	55:CU:110:TYR:O	2.06	0.54
59:CZ:11:VAL:HA	59:CZ:83:THR:HG22	1.88	0.54
59:CZ:95:VAL:HG21	59:CZ:117:LYS:NZ	2.23	0.54
61:Ch:28:LEU:HD11	61:Ch:51:ARG:HG3	1.90	0.54
61:Ch:78:TYR:HA	61:Ch:84:ARG:HH21	1.73	0.54
63:CB:17:LEU:CD2	63:CB:19:ARG:HD3	2.37	0.54
63:CB:60:VAL:HG12	63:CB:61:ASP:N	2.23	0.54
63:CB:117:ARG:NE	63:CB:177:LYS:HG2	2.22	0.54
64:CF:193:GLU:HG2	64:CF:200:ARG:HB3	1.89	0.54
64:CF:193:GLU:OE1	64:CF:193:GLU:HA	2.08	0.54
66:Cd:96:GLU:C	66:Cd:98:SER:H	2.15	0.54
67:Ce:4:LEU:O	67:Ce:5:ARG:CB	2.56	0.54
68:Cf:53:ALA:N	68:Cf:54:LYS:HD3	2.19	0.54
68:Cf:84:VAL:HG12	68:Cf:85:ARG:O	2.08	0.54
69:Cg:3:GLN:CG	69:Cg:29:ARG:CZ	2.86	0.54
70:Ch:81:ILE:HG21	70:Ch:85:ARG:HH12	1.69	0.54
81:CE:174:LEU:CD2	81:CE:208:ILE:HD13	2.38	0.54
82:CG:103:ARG:O	82:CG:104:PRO:N	2.30	0.54
82:CG:184:ILE:O	82:CG:185:LYS:HB2	2.07	0.54
84:Cv:23:ILE:HG21	84:Cv:39:LEU:CD2	2.35	0.54
85:A5:173:C:O2'	85:A5:174:C:H5'	2.08	0.54
86:A7:40:U:C5	86:A7:42:A:N6	2.76	0.54
1:Az:753:GLU:OE2	1:Az:782:PHE:HE1	1.90	0.54
2:Ag:61:GLY:C	2:Ag:88:ARG:NH2	2.66	0.54
2:Ag:258:ILE:CG1	2:Ag:267:VAL:HB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AM:76:LEU:C	7:AM:128:PHE:HZ	2.15	0.54
11:AL:31:GLU:HG2	11:AL:32:LYS:N	2.23	0.54
13:AP:17:TYR:H	13:AP:25:LEU:HD11	1.71	0.54
13:AP:56:LEU:HD12	13:AP:80:LEU:HD12	1.88	0.54
13:AP:97:TYR:OH	13:AP:100:LYS:HA	2.08	0.54
16:AA:5:LEU:HB2	17:AV:41:LYS:NZ	2.22	0.54
16:AA:179:ALA:HA	16:AA:182:VAL:HG22	1.90	0.54
28:AC:233:LEU:HD12	28:AC:234:GLY:CA	2.36	0.54
33:AI:19:LYS:HE2	33:AI:20:PRO:HD3	1.83	0.54
33:AI:155:ASN:ND2	33:AI:156:ALA:CA	2.70	0.54
34:AQ:54:PRO:CG	34:AQ:88:ILE:HD11	2.26	0.54
34:AQ:111:ILE:HA	34:AQ:114:GLN:CD	2.33	0.54
36:B2:748:C:H5''	36:B2:749:U:C6	2.43	0.54
36:B2:834:C:C2	36:B2:841:G:C2	2.95	0.54
36:B2:1063:C:C5	36:B2:1064:C:C5	2.96	0.54
36:B2:1601:A:H5'	36:B2:1602:U:C6	2.42	0.54
36:B2:1834:A:C2	36:B2:1837:G:N1	2.76	0.54
38:Cz:49:PHE:CD2	38:Cz:165:LEU:HD22	2.42	0.54
40:CK:46:ILE:CG2	40:CK:72:GLU:OE2	2.56	0.54
40:CK:81:ILE:HG13	40:CK:82:ILE:N	2.23	0.54
40:CK:85:LEU:HD11	40:CK:109:ILE:HG22	1.90	0.54
41:CO:72:HIS:O	41:CO:74:ARG:NH1	2.41	0.54
43:CV:97:TYR:CE1	58:CW:21:TYR:CD1	2.93	0.54
45:Ca:14:HIS:CD2	45:Ca:14:HIS:N	2.75	0.54
45:Ca:63:LEU:HD22	45:Ca:64:LYS:N	2.23	0.54
45:Ca:84:GLU:HA	45:Ca:87:ARG:NE	2.23	0.54
45:Ca:97:ALA:CB	45:Ca:121:PRO:HB2	2.37	0.54
49:CQ:25:LEU:HB2	74:CC:283:LYS:HE3	1.89	0.54
49:CQ:143:ARG:C	49:CQ:144:LYS:HE3	2.32	0.54
49:CQ:154:LYS:HE3	49:CQ:163:THR:HG23	1.73	0.54
51:CA:61:VAL:HB	51:CA:76:PHE:HE2	1.73	0.54
51:CA:109:GLU:HG2	51:CA:137:ILE:HA	1.90	0.54
54:CP:15:CYS:SG	54:CP:105:LYS:HG2	2.47	0.54
55:CU:60:VAL:HG21	55:CU:76:VAL:HB	1.90	0.54
59:CZ:54:THR:OG1	59:CZ:55:ALA:N	2.30	0.54
60:Cr:33:LYS:NZ	60:Cr:33:LYS:CB	2.70	0.54
60:Cr:45:HIS:ND1	60:Cr:45:HIS:C	2.66	0.54
60:Cr:86:ALA:HB1	60:Cr:93:ILE:CG1	2.37	0.54
63:CB:107:ALA:HB1	63:CB:202:GLU:HG3	1.90	0.54
63:CB:394:LYS:HD2	63:CB:394:LYS:N	2.23	0.54
64:CF:20:LYS:HE2	64:CF:21:LYS:HE3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:83:THR:O	65:Cc:86:GLY:CA	2.56	0.54
66:Cd:88:LEU:O	66:Cd:88:LEU:CD1	2.44	0.54
67:Ce:7:LEU:HD13	67:Ce:73:GLY:O	2.07	0.54
70:Ci:60:LEU:HB3	70:Ci:64:SER:OG	2.08	0.54
71:Cj:65:ARG:HG3	71:Cj:65:ARG:NH1	2.23	0.54
73:Cl:26:TRP:CH2	73:Cl:27:ILE:HD13	2.42	0.54
73:Cl:42:ARG:HD3	73:Cl:49:LEU:HD21	1.86	0.54
74:CC:54:VAL:CB	74:CC:101:MET:HE2	2.37	0.54
74:CC:134:PRO:CD	74:CC:135:ALA:N	2.71	0.54
77:Cp:27:LYS:CE	77:Cp:28:LYS:CA	2.74	0.54
78:Co:72:CYS:SG	78:Co:73:VAL:HB	2.48	0.54
79:CJ:95:ARG:HB2	79:CJ:95:ARG:HH11	1.72	0.54
81:CE:76:ALA:O	81:CE:77:LYS:CG	2.56	0.54
81:CE:85:LYS:CB	81:CE:92:VAL:CG1	2.84	0.54
81:CE:152:ILE:CG2	81:CE:160:LYS:H	2.21	0.54
85:A5:1215:C:H2'	85:A5:1216:C:H5'	1.90	0.54
87:A8:126:C:C1'	87:A8:127:U:OP1	2.55	0.54
1:Az:356:ILE:HG23	1:Az:357:HIS:ND1	2.22	0.54
1:Az:393:PRO:CD	1:Az:418:SER:OG	2.55	0.54
1:Az:503:PRO:HA	1:Az:548:GLY:C	2.33	0.54
1:Az:746:LEU:CD2	1:Az:785:LYS:NZ	2.65	0.54
1:Az:766:LYS:CB	1:Az:788:LEU:CD1	2.86	0.54
2:Ag:125:ARG:CD	12:AR:33:ARG:HH11	2.20	0.54
5:AO:125:LYS:HZ1	20:Aa:58:VAL:HA	1.73	0.54
7:AM:64:LEU:HG	25:Af:104:LYS:NZ	2.22	0.54
15:AB:53:GLN:C	15:AB:55:THR:N	2.63	0.54
16:AA:33:GLN:OE1	21:Ab:2:PRO:HB3	2.08	0.54
16:AA:141:ASN:HD21	17:AV:29:HIS:HA	1.72	0.54
17:AV:31:SER:C	17:AV:31:SER:CB	2.76	0.54
17:AV:32:ILE:HD12	17:AV:60:ARG:HD2	1.90	0.54
18:AY:54:VAL:HG13	18:AY:76:TYR:C	2.33	0.54
25:Af:146:LEU:HD12	25:Af:147:THR:N	2.23	0.54
26:AJ:138:ARG:HD3	26:AJ:156:HIS:ND1	2.22	0.54
28:AC:57:ASP:O	28:AC:58:LYS:CD	2.29	0.54
28:AC:114:LYS:HD2	28:AC:115:GLN:H	1.72	0.54
28:AC:277:HIS:ND1	28:AC:278:THR:N	2.54	0.54
32:AW:88:LYS:NZ	36:B2:420:G:H5'	2.21	0.54
32:AW:128:PHE:CD1	32:AW:129:PHE:HA	2.43	0.54
33:AI:5:ARG:HH11	36:B2:384:U:H3	1.56	0.54
34:AQ:124:PRO:CD	34:AQ:125:ARG:H	2.21	0.54
36:B2:281:C:H5''	36:B2:281:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:116:LEU:HA	38:Cz:119:GLN:HE22	1.72	0.54
39:Cq:143:ILE:HG13	39:Cq:160:LEU:HD22	1.88	0.54
40:CK:10:ILE:CG2	40:CK:65:GLN:O	2.33	0.54
41:CO:149:TYR:CD2	63:CB:96:PRO:O	2.61	0.54
44:CM:32:ASP:HA	52:CS:145:PHE:CE2	2.37	0.54
47:CI:72:ALA:O	47:CI:76:MET:HG2	2.06	0.54
51:CA:179:ILE:HD11	51:CA:188:LYS:NZ	2.23	0.54
52:CS:9:GLU:CD	52:CS:33:PHE:CD2	2.85	0.54
59:CZ:91:LEU:O	59:CZ:117:LYS:HE2	2.07	0.54
60:Cr:81:THR:O	60:Cr:82:ILE:HG23	2.08	0.54
63:CB:43:LEU:HD12	63:CB:43:LEU:N	2.23	0.54
64:CF:42:LEU:HD23	64:CF:42:LEU:C	2.32	0.54
66:Cd:93:ASN:HA	66:Cd:103:TYR:HE1	1.73	0.54
70:Ci:11:LEU:N	70:Ci:12:ASN:HD21	1.98	0.54
70:Ci:17:VAL:HG13	70:Ci:18:THR:H	1.67	0.54
74:CC:9:SER:HB3	74:CC:21:ASN:OD1	2.08	0.54
75:Cm:108:VAL:HG23	75:Cm:109:ASN:HD22	1.73	0.54
76:Cn:3:ALA:O	76:Cn:6:ARG:HG3	2.08	0.54
77:Cp:17:ARG:O	77:Cp:18:TYR:HB2	2.08	0.54
79:CJ:32:ARG:CG	79:CJ:35:ARG:NH2	2.71	0.54
80:CH:45:LEU:HD21	80:CH:57:VAL:HG11	1.89	0.54
81:CE:83:LYS:HD2	81:CE:86:GLU:HA	1.88	0.54
81:CE:115:TYR:HB2	81:CE:117:PRO:HD3	1.90	0.54
81:CE:158:ARG:NH2	85:A5:4948:C:C2	2.74	0.54
81:CE:187:ARG:HG2	81:CE:189:THR:HG23	1.89	0.54
82:CG:63:LEU:N	82:CG:63:LEU:HD23	2.23	0.54
85:A5:2473:A:C2	85:A5:2506:G:H8	2.25	0.54
85:A5:4561:C:H2'	85:A5:4562:C:C6	2.43	0.54
85:A5:4947:U:H2'	85:A5:4948:C:H5	1.73	0.54
1:Az:58:ASP:CA	1:Az:63:GLU:CG	2.80	0.53
1:Az:72:SER:HB2	1:Az:104:ASP:C	2.32	0.53
1:Az:579:TYR:CD2	1:Az:579:TYR:N	2.75	0.53
1:Az:763:LEU:HD12	1:Az:770:VAL:HG22	1.89	0.53
1:Az:797:THR:HG23	1:Az:798:ALA:N	2.23	0.53
2:Ag:16:GLY:H	2:Ag:37:ASP:HB3	1.72	0.53
7:AM:27:ILE:HG23	7:AM:28:HIS:N	2.22	0.53
8:AS:137:LYS:O	8:AS:141:ARG:CZ	2.57	0.53
11:AL:40:ILE:HD13	11:AL:40:ILE:C	2.33	0.53
14:AT:77:LYS:O	14:AT:92:PHE:CZ	2.61	0.53
15:AB:178:THR:O	15:AB:179:ASN:CB	2.56	0.53
18:AY:99:LYS:O	18:AY:100:LYS:O	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:39:VAL:O	23:AD:39:VAL:HG13	2.07	0.53
23:AD:46:THR:CB	23:AD:79:PHE:CZ	2.89	0.53
23:AD:117:ARG:CA	35:Ah:186:ASP:CG	2.81	0.53
24:Ae:38:TYR:CD2	26:AJ:33:GLY:HA3	2.43	0.53
26:AJ:17:ARG:HG3	26:AJ:18:ARG:HG2	1.77	0.53
27:AE:206:ASP:O	27:AE:222:LEU:N	2.42	0.53
29:AG:67:VAL:CG2	29:AG:100:CYS:H	2.20	0.53
29:AG:153:VAL:HG12	29:AG:154:ARG:N	2.23	0.53
29:AG:184:VAL:HG12	29:AG:188:LYS:HE3	1.70	0.53
30:AF:32:ASP:OD2	30:AF:117:ILE:HG23	2.08	0.53
31:AH:157:HIS:O	31:AH:158:LEU:CD2	2.55	0.53
33:AI:117:TYR:HE1	33:AI:155:ASN:ND2	2.05	0.53
36:B2:1274:G:N3	36:B2:1274:G:C5'	2.70	0.53
39:Cq:241:ILE:HG22	39:Cq:245:TYR:CD2	2.43	0.53
39:Cq:257:TYR:CA	84:Cv:45:GLU:OE1	2.54	0.53
40:CK:56:LEU:HB2	40:CK:91:ASP:CG	2.31	0.53
40:CK:123:ARG:HG3	40:CK:128:THR:OG1	2.07	0.53
40:CK:162:CYS:H	40:CK:163:PRO:HD3	1.68	0.53
41:CO:26:GLN:HE21	52:CS:166:ARG:CB	2.22	0.53
41:CO:184:ASN:O	41:CO:188:LYS:CG	2.56	0.53
45:Ca:120:GLN:HB3	45:Ca:121:PRO:HD3	1.69	0.53
47:CI:76:MET:HB3	47:CI:85:PHE:CE2	2.43	0.53
47:CI:80:CYS:SG	47:CI:147:HIS:CB	2.96	0.53
47:CI:104:SER:C	47:CI:105:CYS:O	2.45	0.53
47:CI:156:LYS:HG3	47:CI:163:GLN:CG	2.34	0.53
48:CD:184:ASP:OD1	48:CD:186:GLU:CD	2.50	0.53
48:CD:273:LEU:HD12	48:CD:273:LEU:C	2.33	0.53
49:CQ:36:ALA:CB	49:CQ:45:GLN:HE21	2.13	0.53
51:CA:96:LEU:CD2	51:CA:166:VAL:HG21	2.38	0.53
52:CS:15:ARG:O	52:CS:16:CYS:CB	2.41	0.53
56:CX:40:ILE:HG12	56:CX:41:ARG:CA	2.35	0.53
57:CY:50:ARG:NE	57:CY:51:LYS:H	2.04	0.53
58:CW:76:VAL:O	58:CW:77:LYS:HB2	2.07	0.53
59:CZ:37:PRO:HD2	59:CZ:38:TYR:CD2	2.43	0.53
60:Cr:34:ALA:HB2	67:Ce:87:VAL:O	2.07	0.53
60:Cr:76:SER:C	60:Cr:79:ARG:NH2	2.66	0.53
60:Cr:82:ILE:C	60:Cr:83:ASN:CG	2.76	0.53
62:Cb:22:LYS:HG2	62:Cb:23:LYS:O	2.08	0.53
62:Cb:54:LEU:CG	62:Cb:58:GLN:OE1	2.56	0.53
63:CB:212:GLY:HA2	63:CB:287:ILE:CD1	2.38	0.53
63:CB:293:ILE:H	63:CB:298:LEU:HG	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:341:LYS:O	63:CB:342:LYS:CB	2.45	0.53
66:Cd:41:ARG:HB2	66:Cd:77:ILE:O	2.07	0.53
66:Cd:51:LYS:HG3	66:Cd:51:LYS:O	2.08	0.53
70:Ci:66:ASP:O	70:Ci:67:LYS:C	2.50	0.53
70:Ci:79:THR:HB	70:Ci:82:ARG:CG	2.35	0.53
72:Ck:27:LYS:HD2	72:Ck:28:ASN:N	2.24	0.53
74:CC:8:ILE:CD1	74:CC:151:PRO:HG2	2.38	0.53
74:CC:154:VAL:HG11	74:CC:158:VAL:CG2	2.25	0.53
74:CC:170:LEU:HD12	74:CC:170:LEU:C	2.33	0.53
74:CC:219:LYS:NZ	74:CC:222:ARG:CZ	2.44	0.53
79:CJ:155:HIS:O	79:CJ:156:ARG:CB	2.56	0.53
80:CH:120:GLU:CG	80:CH:124:ARG:HH22	2.19	0.53
81:CE:51:VAL:HA	81:CE:54:ILE:CD1	2.34	0.53
81:CE:84:LYS:O	81:CE:86:GLU:N	2.41	0.53
81:CE:106:VAL:CB	81:CE:108:LYS:N	2.45	0.53
81:CE:187:ARG:HG2	81:CE:189:THR:HG22	1.89	0.53
81:CE:188:ARG:HH12	85:A5:4940:C:H1'	1.73	0.53
82:CG:98:LEU:HG	82:CG:215:LEU:HD23	1.86	0.53
82:CG:157:ILE:CD1	82:CG:170:LEU:HB3	2.38	0.53
82:CG:217:LYS:HZ1	82:CG:220:GLU:HB2	1.73	0.53
85:A5:2465:C:N4	85:A5:2466:G:C6	2.76	0.53
85:A5:4754:G:O2'	85:A5:4755:G:H5'	2.08	0.53
1:Az:111:PHE:HB3	1:Az:145:GLN:HE22	1.72	0.53
1:Az:745:TYR:HA	1:Az:815:ASP:HB2	1.89	0.53
2:Ag:121:VAL:HG12	2:Ag:122:SER:N	2.24	0.53
6:AX:88:ASP:OD2	24:Ae:13:ARG:HB2	2.08	0.53
6:AX:95:GLU:HG3	6:AX:140:ARG:NH2	2.20	0.53
7:AM:101:ARG:O	7:AM:103:VAL:HG23	2.08	0.53
9:Ad:44:ARG:HH21	36:B2:1337:C:H5'	1.73	0.53
14:AT:39:LEU:HD21	14:AT:56:ARG:HH21	1.72	0.53
14:AT:75:MET:HA	14:AT:78:ILE:HG22	1.89	0.53
14:AT:83:GLN:NE2	14:AT:85:ASN:CA	2.72	0.53
15:AB:125:VAL:CG1	15:AB:173:THR:HG22	2.28	0.53
15:AB:131:ASP:N	15:AB:131:ASP:OD1	2.38	0.53
15:AB:232:HIS:O	15:AB:233:GLY:O	2.27	0.53
19:AZ:107:VAL:HB	19:AZ:109:TYR:CE2	2.44	0.53
21:Ab:2:PRO:O	21:Ab:4:ALA:N	2.41	0.53
23:AD:4:GLN:O	23:AD:5:ILE:HG13	2.07	0.53
23:AD:29:LEU:O	23:AD:32:ASP:HB2	2.08	0.53
23:AD:178:ARG:O	36:B2:1500:G:H4'	2.09	0.53
23:AD:219:PRO:O	23:AD:220:THR:C	2.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:147:PHE:O	26:AJ:148:ILE:CB	2.55	0.53
27:AE:97:GLU:HB2	27:AE:99:PHE:CE2	2.42	0.53
27:AE:153:LEU:CD1	27:AE:172:PHE:CE1	2.72	0.53
27:AE:166:THR:OG1	27:AE:168:LYS:HG2	2.07	0.53
29:AG:55:GLY:HA2	29:AG:110:ASN:ND2	2.23	0.53
29:AG:177:GLN:CG	29:AG:178:ARG:H	2.21	0.53
33:AI:83:TYR:HB3	33:AI:101:ILE:HB	1.89	0.53
34:AQ:51:LEU:C	34:AQ:51:LEU:HD12	2.33	0.53
34:AQ:109:LYS:HZ2	34:AQ:113:ILE:HD11	1.74	0.53
35:Ah:150:GLU:HA	35:Ah:153:VAL:HG13	1.89	0.53
38:Cz:41:TYR:OH	38:Cz:159:MET:HE3	2.07	0.53
39:Cq:259:PHE:CE2	84:Cv:4:VAL:HG23	2.42	0.53
40:CK:9:GLU:CG	40:CK:10:ILE:N	2.04	0.53
40:CK:21:GLU:OE1	40:CK:48:LYS:CG	2.55	0.53
40:CK:61:LYS:HZ1	40:CK:72:GLU:HB3	1.73	0.53
41:CO:169:ARG:HH11	41:CO:173:GLN:HG3	1.73	0.53
42:CL:42:LYS:HD3	42:CL:52:SER:O	2.08	0.53
42:CL:59:VAL:HG12	42:CL:60:ARG:N	2.23	0.53
43:CV:65:VAL:HG23	43:CV:77:HIS:NE2	2.24	0.53
44:CM:119:ARG:HG2	44:CM:120:ASN:H	1.72	0.53
46:CN:156:HIS:O	46:CN:159:ARG:HG3	2.08	0.53
47:CI:5:PRO:C	47:CI:7:ARG:H	2.13	0.53
47:CI:47:PRO:HB3	47:CI:171:TRP:CE3	2.41	0.53
47:CI:150:GLU:O	47:CI:154:ARG:HG3	2.07	0.53
48:CD:119:TYR:CE1	48:CD:135:ILE:CD1	2.92	0.53
48:CD:119:TYR:HE1	48:CD:135:ILE:HG13	1.70	0.53
51:CA:5:ILE:CG2	51:CA:6:ARG:N	2.71	0.53
51:CA:66:PRO:CB	51:CA:67:TYR:CD2	2.78	0.53
51:CA:67:TYR:HD1	82:CG:46:GLN:HB3	1.72	0.53
52:CS:23:HIS:HD2	52:CS:23:HIS:O	1.90	0.53
53:CT:7:LYS:CE	53:CT:54:HIS:HD2	1.74	0.53
53:CT:91:VAL:CG1	53:CT:92:ARG:N	2.71	0.53
53:CT:138:ALA:C	53:CT:139:HIS:CG	2.85	0.53
54:CP:4:TYR:CZ	54:CP:17:SER:O	2.61	0.53
55:CU:20:LYS:HE2	55:CU:22:THR:CG2	2.38	0.53
56:CX:89:LYS:HD2	56:CX:95:THR:CB	2.38	0.53
56:CX:89:LYS:HE3	56:CX:97:VAL:HG23	1.90	0.53
57:CY:117:LYS:CG	57:CY:121:ARG:NH2	2.71	0.53
59:CZ:47:ASP:OD2	59:CZ:69:LYS:CE	2.56	0.53
60:Cr:71:ARG:H	60:Cr:71:ARG:NH2	2.06	0.53
61:Ch:67:GLU:O	61:Ch:70:ARG:CG	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:91:MET:O	61:Ch:94:ARG:CG	2.40	0.53
63:CB:212:GLY:C	63:CB:287:ILE:HD11	2.33	0.53
70:Ci:73:ILE:CD1	70:Ci:87:ARG:HG3	2.39	0.53
72:Ck:24:LYS:NZ	72:Ck:67:LYS:HD2	2.23	0.53
74:CC:228:THR:HG21	74:CC:248:ARG:HH22	1.74	0.53
78:Co:65:LYS:CB	78:Co:66:ILE:HD12	2.19	0.53
79:CJ:90:ARG:HH12	79:CJ:107:PHE:HA	1.73	0.53
81:CE:162:VAL:HG11	81:CE:175:VAL:HG12	1.89	0.53
82:CG:180:PRO:HD2	82:CG:180:PRO:O	2.08	0.53
85:A5:1266:G:N2	85:A5:2111:G:C2	2.76	0.53
85:A5:2908:U:H3	85:A5:3586:G:H1	1.56	0.53
85:A5:3967:G:O6	85:A5:4054:C:N4	2.41	0.53
85:A5:4764:A:H61	85:A5:4870:G:H1	1.55	0.53
1:Az:398:ILE:HG23	1:Az:485:ILE:HD13	1.90	0.53
1:Az:450:THR:CG2	1:Az:470:VAL:HG21	2.39	0.53
1:Az:619:LYS:HB3	1:Az:621:GLU:OE1	2.08	0.53
1:Az:675:ILE:CG2	1:Az:721:ILE:HD13	2.38	0.53
2:Ag:71:ILE:CG2	2:Ag:72:SER:H	2.20	0.53
3:AU:53:PRO:HD2	3:AU:53:PRO:O	2.08	0.53
4:AK:14:LEU:HD22	4:AK:35:LEU:CD1	2.36	0.53
5:AO:47:LEU:C	15:AB:67:PHE:HD1	2.10	0.53
5:AO:72:TYR:CD1	5:AO:72:TYR:C	2.86	0.53
5:AO:125:LYS:HZ2	20:Aa:56:ALA:C	2.15	0.53
5:AO:131:ASP:CG	20:Aa:67:LEU:HD21	2.32	0.53
7:AM:51:VAL:CG1	7:AM:109:VAL:HG23	2.39	0.53
13:AP:53:GLN:HG3	13:AP:80:LEU:HD11	1.84	0.53
14:AT:77:LYS:O	14:AT:92:PHE:HZ	1.91	0.53
15:AB:77:ASP:O	15:AB:79:VAL:CG2	2.27	0.53
16:AA:7:VAL:HG22	16:AA:8:LEU:HD12	1.88	0.53
17:AV:24:ILE:CD1	17:AV:25:GLY:CA	2.85	0.53
18:AY:50:THR:CG2	18:AY:75:ILE:HG21	2.36	0.53
18:AY:82:ALA:O	18:AY:86:GLU:HB2	2.09	0.53
23:AD:162:ASP:OD1	23:AD:162:ASP:O	2.27	0.53
28:AC:74:LYS:HD2	28:AC:269:PHE:HE1	1.73	0.53
29:AG:64:LYS:HD2	29:AG:67:VAL:HG13	1.87	0.53
30:AF:14:THR:OG1	34:AQ:56:LEU:HD13	2.07	0.53
35:Ah:151:PHE:HB3	35:Ah:153:VAL:N	2.11	0.53
36:B2:305:U:H5''	36:B2:306:C:C6	2.43	0.53
36:B2:845:G:H3'	36:B2:846:G:H8	1.72	0.53
38:Cz:86:ASP:HB3	38:Cz:88:GLU:CD	2.33	0.53
38:Cz:111:LEU:HD11	38:Cz:142:GLU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:62:ARG:C	39:Cq:64:ALA:N	2.64	0.53
40:CK:2:PRO:CD	40:CK:6:ASP:OD2	2.56	0.53
41:CO:108:ILE:HG22	41:CO:160:ARG:HD3	1.90	0.53
42:CL:21:ARG:O	46:CN:197:THR:CG2	2.54	0.53
42:CL:163:LYS:HE3	45:Ca:100:ILE:CG2	2.25	0.53
43:CV:49:LEU:O	43:CV:50:ASN:HB2	2.07	0.53
43:CV:69:LYS:HB2	43:CV:72:LEU:HD12	1.89	0.53
43:CV:99:GLU:OE1	58:CW:24:THR:HG23	2.08	0.53
47:CI:97:ILE:CD1	47:CI:126:VAL:HG21	2.29	0.53
48:CD:40:ASP:OD1	48:CD:40:ASP:C	2.51	0.53
48:CD:66:TYR:CD2	48:CD:66:TYR:O	2.61	0.53
48:CD:197:LYS:HB3	48:CD:202:GLN:CB	2.39	0.53
49:CQ:88:ASP:OD2	49:CQ:108:ARG:CB	2.56	0.53
51:CA:133:TYR:HB3	51:CA:168:VAL:HG12	1.89	0.53
51:CA:192:LYS:O	51:CA:193:ARG:HG3	2.08	0.53
52:CS:75:VAL:O	52:CS:76:LYS:CB	2.55	0.53
55:CU:27:HIS:CD2	55:CU:114:TYR:CB	2.83	0.53
58:CW:47:ARG:HG2	58:CW:54:LEU:HD21	1.89	0.53
60:Cr:25:TYR:HB3	67:Ce:87:VAL:CG1	2.38	0.53
62:Cb:50:ASN:O	62:Cb:54:LEU:CB	2.54	0.53
62:Cb:50:ASN:O	62:Cb:54:LEU:N	2.41	0.53
63:CB:264:PHE:HD2	63:CB:265:SER:CA	2.18	0.53
67:Ce:23:HIS:CD2	67:Ce:24:GLN:HG2	2.44	0.53
68:Cf:4:ARG:HG3	68:Cf:6:TRP:HB2	1.91	0.53
69:Cg:45:ALA:HB3	69:Cg:48:VAL:N	2.22	0.53
71:Cj:3:LYS:HA	85:A5:3642:A:C2	2.43	0.53
81:CE:137:VAL:C	81:CE:138:ARG:HG3	2.33	0.53
82:CG:105:GLU:CB	82:CG:109:GLU:OE1	2.56	0.53
83:Cs:60:ILE:O	83:Cs:63:VAL:CG2	2.57	0.53
83:Cs:62:ASN:O	83:Cs:63:VAL:O	2.27	0.53
85:A5:957:G:O6	85:A5:1284:G:H3'	2.08	0.53
85:A5:1211:G:H2'	85:A5:1212:G:C8	2.43	0.53
85:A5:1266:G:N2	85:A5:2111:G:H21	2.05	0.53
86:A7:49:A:H2'	86:A7:50:A:OP2	2.08	0.53
1:Az:228:PHE:CD1	1:Az:231:MET:HE2	2.42	0.53
1:Az:694:GLU:HG2	1:Az:844:LEU:HD12	1.88	0.53
2:Ag:234:ASP:CB	2:Ag:254:PRO:HD2	2.38	0.53
3:Au:104:ILE:O	3:Au:106:ILE:HG22	2.08	0.53
4:AK:60:GLU:HG3	4:AK:69:TRP:NE1	2.24	0.53
6:AX:54:LYS:CD	6:AX:91:LEU:HD12	2.38	0.53
8:AS:90:VAL:CG1	8:AS:91:LYS:CE	2.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:17:PHE:CZ	11:AL:19:ASN:OD1	2.61	0.53
11:AL:86:ILE:CG2	11:AL:113:LEU:HD12	2.38	0.53
13:AP:8:LYS:O	13:AP:9:LYS:C	2.50	0.53
14:AT:62:ARG:HG3	14:AT:63:HIS:N	2.24	0.53
15:AB:19:LYS:O	15:AB:21:VAL:HG11	2.06	0.53
15:AB:214:LYS:HG2	15:AB:215:VAL:N	2.23	0.53
16:AA:80:ARG:NH1	16:AA:165:ASN:O	2.32	0.53
16:AA:145:ILE:HA	16:AA:159:ILE:HG21	1.78	0.53
18:AY:55:ILE:O	18:AY:55:ILE:CG2	2.51	0.53
19:AZ:103:HIS:CB	30:AF:95:HIS:NE2	2.71	0.53
24:Ae:53:LYS:HD2	24:Ae:53:LYS:N	2.19	0.53
26:AJ:17:ARG:CD	26:AJ:18:ARG:HD3	2.35	0.53
26:AJ:50:LEU:HD12	26:AJ:102:ILE:HD11	1.85	0.53
26:AJ:172:ARG:CZ	36:B2:562:U:C5	2.91	0.53
31:AH:31:GLU:O	31:AH:37:LYS:HB2	2.08	0.53
31:AH:73:GLN:NE2	31:AH:135:PHE:CE1	2.77	0.53
33:AI:7:ASN:C	33:AI:9:HIS:N	2.59	0.53
33:AI:155:ASN:CG	33:AI:156:ALA:N	2.57	0.53
34:AQ:98:LYS:CE	34:AQ:99:TYR:CE2	2.91	0.53
36:B2:1569:A:C5	36:B2:1570:G:H1'	2.43	0.53
39:Cq:126:GLN:HG3	39:Cq:127:ASN:N	2.22	0.53
39:Cq:212:HIS:CE1	83:Cs:59:LEU:HD21	2.44	0.53
39:Cq:232:PRO:HG3	84:Cu:42:VAL:CG2	2.30	0.53
41:CO:181:ALA:CA	44:CM:126:GLU:CG	2.82	0.53
41:CO:203:VAL:HG12	44:CM:97:ALA:HB1	1.89	0.53
42:CL:63:THR:O	42:CL:67:HIS:CD2	2.62	0.53
42:CL:144:LEU:HD11	42:CL:150:LEU:HG	1.89	0.53
47:CI:55:ASP:HB3	47:CI:162:ARG:O	2.09	0.53
48:CD:58:ARG:NH1	48:CD:93:THR:OG1	2.17	0.53
50:CR:64:ARG:CA	50:CR:67:THR:OG1	2.50	0.53
51:CA:6:ARG:NH2	51:CA:198:ARG:HG2	2.15	0.53
51:CA:30:ARG:NH1	51:CA:33:ASP:OD2	2.40	0.53
52:CS:2:LYS:CE	52:CS:34:ALA:HB2	2.38	0.53
52:CS:120:ARG:O	52:CS:123:SER:N	2.34	0.53
56:CX:89:LYS:HD2	56:CX:95:THR:OG1	2.08	0.53
56:CX:114:LYS:HG3	56:CX:120:ASP:HA	1.88	0.53
57:CY:50:ARG:HH11	57:CY:115:ARG:HH22	1.56	0.53
59:CZ:97:ASN:HB2	59:CZ:100:VAL:HG23	1.90	0.53
60:Cr:112:ARG:HG2	67:Ce:90:MET:HE2	1.89	0.53
61:Ch:77:LYS:C	61:Ch:79:LYS:N	2.67	0.53
63:CB:81:THR:HB	63:CB:329:ASP:C	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:95:THR:HG22	85:A5:4910:G:H4'	1.88	0.53
63:CB:109:HIS:N	63:CB:202:GLU:OE2	2.41	0.53
63:CB:348:ARG:HG2	63:CB:349:LYS:O	2.08	0.53
63:CB:381:THR:HG21	63:CB:383:GLU:OE2	2.08	0.53
64:CF:83:VAL:O	64:CF:83:VAL:HG23	2.08	0.53
66:Cd:21:VAL:C	66:Cd:22:THR:CG2	2.81	0.53
69:Cg:8:ARG:HG3	69:Cg:34:TYR:CE2	2.43	0.53
69:Cg:29:ARG:HD2	69:Cg:30:ILE:O	2.08	0.53
69:Cg:35:THR:CG2	69:Cg:36:LYS:HE3	2.39	0.53
71:Cj:15:THR:HG23	85:A5:1534:A:C8	2.44	0.53
74:CC:101:MET:HE3	74:CC:105:THR:N	2.21	0.53
74:CC:109:ARG:CG	74:CC:111:TRP:CZ2	2.75	0.53
74:CC:307:LYS:HB2	74:CC:310:HIS:HE1	1.73	0.53
77:Cp:52:VAL:CG1	77:Cp:68:ALA:HB1	2.36	0.53
78:Co:65:LYS:CA	78:Co:66:ILE:CD1	2.86	0.53
81:CE:53:GLY:CA	81:CE:63:TYR:CB	2.86	0.53
81:CE:55:GLY:HA3	81:CE:62:MET:N	2.22	0.53
81:CE:85:LYS:HA	81:CE:93:THR:OG1	2.08	0.53
81:CE:228:GLN:HE21	81:CE:228:GLN:CA	2.21	0.53
81:CE:264:ILE:CG2	81:CE:267:LEU:N	2.66	0.53
1:Az:81:LEU:HB2	1:Az:86:LEU:CD1	2.39	0.53
1:Az:271:GLY:C	1:Az:272:LYS:CG	2.74	0.53
1:Az:420:LEU:HB2	1:Az:465:PRO:CA	2.38	0.53
1:Az:634:TYR:CE2	1:Az:639:TYR:CE2	2.94	0.53
1:Az:847:GLY:HA3	1:Az:848:ILE:CG1	2.39	0.53
4:AK:3:MET:SD	4:AK:8:ARG:CZ	2.91	0.53
8:AS:36:VAL:HA	8:AS:40:TYR:CD2	2.43	0.53
8:AS:81:ASP:C	8:AS:87:GLN:HE22	2.15	0.53
8:AS:141:ARG:CD	36:B2:1523:C:C5	2.91	0.53
10:AN:4:MET:SD	10:AN:124:ARG:NH1	2.82	0.53
10:AN:17:PRO:HG2	36:B2:1016:U:C6	2.43	0.53
11:AL:147:LYS:HG3	11:AL:148:ALA:HB2	1.90	0.53
14:AT:14:PHE:HZ	14:AT:131:LEU:CD1	2.21	0.53
14:AT:123:LEU:H	14:AT:123:LEU:CD2	2.22	0.53
16:AA:105:PRO:HA	16:AA:136:GLU:OE2	2.08	0.53
16:AA:106:GLY:O	16:AA:110:ASN:HB2	2.07	0.53
16:AA:159:ILE:HD12	16:AA:160:ALA:N	2.24	0.53
18:AY:120:THR:HG22	18:AY:122:LYS:HE2	1.88	0.53
27:AE:143:ASP:OD2	27:AE:145:ARG:HD2	2.08	0.53
31:AH:12:ASN:HB3	31:AH:46:THR:HG1	1.73	0.53
33:AI:144:LYS:CD	33:AI:144:LYS:H	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:145:LYS:O	35:Ah:146:GLY:C	2.52	0.53
36:B2:305:U:H5''	36:B2:306:C:C5	2.43	0.53
36:B2:1413:G:C6	36:B2:1414:A:C5	2.96	0.53
38:Cz:29:LEU:HG	38:Cz:60:ARG:NH1	2.23	0.53
38:Cz:41:TYR:HH	38:Cz:48:ARG:HA	1.74	0.53
39:Cq:12:ASN:C	39:Cq:16:LYS:CE	2.61	0.53
40:CK:142:ASN:HD22	40:CK:151:ILE:HD12	1.74	0.53
41:CO:190:ASP:CA	41:CO:191:LYS:C	2.81	0.53
42:CL:100:PRO:CD	42:CL:101:ARG:N	2.71	0.53
46:CN:28:TRP:CZ2	82:CG:66:GLN:OE1	2.61	0.53
46:CN:150:TRP:CH2	46:CN:151:ILE:HG12	2.43	0.53
47:CI:102:MET:N	47:CI:103:LEU:HD22	2.23	0.53
48:CD:90:VAL:CG2	48:CD:226:TYR:CZ	2.90	0.53
50:CR:101:ILE:HG12	50:CR:104:ARG:HH12	1.69	0.53
52:CS:61:ILE:HD12	52:CS:61:ILE:N	2.23	0.53
52:CS:74:ARG:O	52:CS:75:VAL:C	2.52	0.53
52:CS:161:ARG:N	52:CS:163:HIS:HB3	2.23	0.53
54:CP:15:CYS:SG	54:CP:102:ALA:CA	2.86	0.53
55:CU:86:LEU:O	55:CU:89:LYS:HB3	2.08	0.53
57:CY:22:PRO:CD	57:CY:25:ILE:HB	2.35	0.53
60:Cr:26:SER:CB	60:Cr:31:ASN:ND2	2.72	0.53
60:Cr:27:THR:C	60:Cr:31:ASN:HD21	2.16	0.53
60:Cr:76:SER:N	60:Cr:79:ARG:HH22	1.96	0.53
61:Ch:73:TYR:O	61:Ch:79:LYS:HE3	2.08	0.53
62:Cb:28:ARG:O	62:Cb:29:TYR:CB	2.56	0.53
63:CB:32:PHE:CB	63:CB:33:PRO:CD	2.86	0.53
63:CB:293:ILE:O	63:CB:294:LYS:HG3	2.09	0.53
66:Cd:29:ILE:HG23	66:Cd:33:ILE:HD11	1.90	0.53
67:Ce:9:LYS:HD3	67:Ce:69:MET:HG2	1.90	0.53
69:Cg:46:CYS:HB3	69:Cg:86:CYS:HB2	1.91	0.53
71:Cj:82:THR:CG2	87:A8:95:A:H4'	2.39	0.53
74:CC:186:SER:CB	74:CC:204:ARG:HG2	2.39	0.53
79:CJ:20:LEU:HD22	79:CJ:83:LEU:HG	1.91	0.53
82:CG:41:ILE:O	82:CG:41:ILE:HG23	2.05	0.53
82:CG:46:GLN:HE21	82:CG:47:PRO:CG	2.19	0.53
82:CG:104:PRO:CA	82:CG:105:GLU:CD	2.81	0.53
85:A5:2647:A:N7	85:A5:2686:G:C8	2.75	0.53
87:A8:65:A:C4	87:A8:95:A:C2	2.97	0.53
1:Az:3:ASN:HB3	1:Az:47:ALA:H	1.74	0.53
1:Az:662:LEU:CD2	1:Az:683:PHE:CE1	2.91	0.53
1:Az:738:PRO:HB2	1:Az:824:PRO:CG	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:778:GLY:C	40:CK:31:LYS:HG2	2.34	0.53
3:Au:48:LEU:C	3:Au:49:LYS:CG	2.74	0.53
5:AO:28:PHE:CE1	5:AO:92:ALA:HB1	2.43	0.53
5:AO:48:SER:HB3	15:AB:67:PHE:CZ	2.43	0.53
6:AX:67:ARG:HE	6:AX:67:ARG:HA	1.74	0.53
7:AM:12:MET:CG	7:AM:17:ALA:N	2.71	0.53
7:AM:93:LYS:O	7:AM:95:ASP:OD1	2.27	0.53
10:AN:11:LEU:HD12	10:AN:11:LEU:C	2.33	0.53
12:AR:5:ARG:CA	12:AR:10:LYS:NZ	2.59	0.53
14:AT:16:ARG:NH1	14:AT:16:ARG:HG2	2.23	0.53
15:AB:120:MET:HB2	15:AB:142:PHE:CE1	2.44	0.53
18:AY:78:SER:O	18:AY:79:LEU:C	2.48	0.53
20:Aa:95:ARG:O	36:B2:1866:A:O2'	2.10	0.53
24:Ae:42:PHE:CZ	26:AJ:26:ASP:HB3	2.44	0.53
24:Ae:46:VAL:HG22	24:Ae:47:PRO:C	2.34	0.53
25:Af:103:LEU:CD2	25:Af:103:LEU:C	2.79	0.53
25:Af:146:LEU:HD12	25:Af:146:LEU:C	2.33	0.53
27:AE:126:VAL:CG2	27:AE:129:ILE:CD1	2.83	0.53
27:AE:154:ILE:CG2	27:AE:160:ILE:HD11	2.39	0.53
28:AC:65:LYS:HA	28:AC:68:ARG:HD2	1.91	0.53
28:AC:117:ARG:HH21	28:AC:117:ARG:CB	2.14	0.53
29:AG:176:ILE:HG21	29:AG:179:LEU:CB	2.28	0.53
30:AF:113:VAL:CG1	30:AF:114:ASN:N	2.72	0.53
31:AH:29:GLU:OE2	31:AH:86:LYS:HE2	2.07	0.53
33:AI:37:LYS:H	33:AI:59:ARG:H	1.57	0.53
33:AI:117:TYR:HD2	33:AI:117:TYR:H	1.57	0.53
34:AQ:45:ARG:CG	34:AQ:46:THR:N	2.71	0.53
34:AQ:63:PHE:CD1	34:AQ:68:ILE:CD1	2.91	0.53
35:Ah:170:ARG:O	35:Ah:170:ARG:HG2	2.06	0.53
36:B2:1542:C:N4	36:B2:1591:C:H42	2.07	0.53
36:B2:1601:A:H4'	36:B2:1602:U:C6	2.44	0.53
38:Cz:105:LYS:O	38:Cz:106:LYS:HB2	2.09	0.53
41:CO:57:PHE:O	41:CO:72:HIS:CE1	2.61	0.53
41:CO:185:VAL:HG13	44:CM:122:ILE:CG2	2.36	0.53
41:CO:192:TYR:HD2	44:CM:122:ILE:HG12	1.74	0.53
43:CV:36:ASN:ND2	43:CV:67:LYS:HG3	2.23	0.53
43:CV:82:ILE:CG2	43:CV:121:VAL:CG2	2.84	0.53
46:CN:80:THR:HG1	46:CN:87:HIS:CD2	2.20	0.53
47:CI:186:ALA:O	47:CI:187:LYS:CD	2.55	0.53
49:CQ:6:ARG:HE	64:CF:110:GLN:HA	1.74	0.53
50:CR:132:PHE:HD1	50:CR:137:ILE:HG21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:170:ARG:O	50:CR:174:GLU:HB2	2.07	0.53
53:CT:135:PRO:C	53:CT:136:ARG:CG	2.61	0.53
53:CT:147:GLU:CB	53:CT:148:PRO:HD2	2.39	0.53
54:CP:131:ARG:NE	54:CP:137:ASN:HD22	2.05	0.53
55:CU:27:HIS:HD2	55:CU:114:TYR:H	1.54	0.53
60:Cr:89:THR:O	60:Cr:91:SER:N	2.42	0.53
63:CB:50:LYS:O	63:CB:50:LYS:HG3	2.03	0.53
63:CB:181:MET:HE2	63:CB:182:GLU:O	2.08	0.53
67:Ce:50:LYS:HZ1	68:Cf:20:ASN:ND2	1.93	0.53
72:Ck:31:ASN:CB	72:Ck:46:VAL:HG13	2.23	0.53
74:CC:133:LEU:HD21	74:CC:136:LEU:HD11	1.63	0.53
74:CC:211:TYR:HH	74:CC:218:ILE:HG13	1.73	0.53
74:CC:308:LYS:O	74:CC:309:ILE:HG22	2.09	0.53
75:Cm:97:ARG:HB2	75:Cm:120:ASN:O	2.09	0.53
79:CJ:166:PHE:CE1	79:CJ:170:TYR:CD2	2.96	0.53
80:CH:109:GLY:HA2	80:CH:110:SER:CB	2.13	0.53
81:CE:212:LEU:HD21	81:CE:216:TYR:CD2	2.44	0.53
1:Az:495:ARG:C	1:Az:496:VAL:CG1	2.81	0.53
1:Az:744:ILE:CG1	1:Az:787:TYR:HB3	2.38	0.53
2:Ag:19:THR:O	2:Ag:288:SER:HB3	2.09	0.53
2:Ag:280:LYS:C	2:Ag:281:ALA:O	2.51	0.53
4:AK:85:LEU:HD13	4:AK:89:ILE:HD11	1.90	0.53
7:AM:77:ILE:HD12	7:AM:78:LYS:O	2.09	0.53
8:AS:108:ARG:NH2	79:CJ:119:TYR:CD2	2.68	0.53
8:AS:124:ARG:HG2	13:AP:123:TYR:HH	1.74	0.53
10:AN:7:PRO:HD2	10:AN:8:GLY:N	2.23	0.53
10:AN:134:VAL:HG22	10:AN:135:LEU:HG	1.91	0.53
10:AN:135:LEU:HD22	10:AN:139:TRP:CD1	2.43	0.53
11:AL:22:ARG:NE	33:AI:157:LYS:CB	2.71	0.53
13:AP:15:PHE:HD2	13:AP:110:GLU:OE2	1.91	0.53
14:AT:76:THR:OG1	14:AT:94:ARG:HD2	2.08	0.53
16:AA:125:THR:HA	16:AA:147:LEU:CB	2.35	0.53
17:AV:19:ALA:O	32:AW:23:ARG:CZ	2.57	0.53
18:AY:5:VAL:O	18:AY:6:THR:CB	2.56	0.53
19:AZ:66:LYS:O	19:AZ:110:THR:HA	2.08	0.53
19:AZ:99:LEU:CD2	19:AZ:109:TYR:CZ	2.89	0.53
22:Ac:63:ARG:NH1	30:AF:204:ARG:HG3	2.23	0.53
27:AE:108:ARG:O	27:AE:109:PHE:C	2.49	0.53
27:AE:143:ASP:O	27:AE:144:ALA:HB3	2.09	0.53
30:AF:159:ARG:NE	36:B2:1535:U:O4	2.38	0.53
31:AH:37:LYS:CE	31:AH:41:ARG:HH11	2.04	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:40:LEU:HD11	31:AH:75:ILE:HD13	1.90	0.53
31:AH:61:ILE:HG12	31:AH:95:ILE:HD12	1.91	0.53
32:AW:17:ALA:HB2	32:AW:25:VAL:HG11	1.89	0.53
32:AW:20:ARG:HH22	36:B2:1139:C:C1'	2.20	0.53
33:AI:48:VAL:CG1	33:AI:54:LYS:HE3	2.38	0.53
36:B2:127:C:C2	36:B2:180:G:H2'	2.44	0.53
38:Cz:143:ASN:HD22	38:Cz:146:ALA:CB	2.20	0.53
39:Cq:125:ALA:O	39:Cq:126:GLN:CB	2.56	0.53
40:CK:85:LEU:CD2	40:CK:109:ILE:HG21	2.38	0.53
40:CK:114:ARG:HD2	40:CK:130:LYS:CA	2.38	0.53
41:CO:37:ARG:HG3	41:CO:39:GLU:OE2	2.08	0.53
41:CO:73:PHE:HB3	41:CO:78:ARG:HB3	1.91	0.53
41:CO:114:LYS:O	85:A5:4757:C:O4'	2.26	0.53
42:CL:126:LEU:HD21	61:Ch:117:ARG:NH1	2.21	0.53
42:CL:179:PHE:C	42:CL:179:PHE:CD2	2.86	0.53
43:CV:106:VAL:HG12	43:CV:107:ASN:N	2.23	0.53
45:Ca:52:TYR:C	45:Ca:52:TYR:HD2	2.07	0.53
45:Ca:65:ARG:O	45:Ca:65:ARG:HG3	2.09	0.53
46:CN:10:LEU:HD13	70:Ci:44:ILE:CD1	2.30	0.53
50:CR:106:LEU:HB3	50:CR:120:TYR:CE1	2.44	0.53
51:CA:32:VAL:HG21	51:CA:121:GLY:HA2	1.90	0.53
51:CA:254:GLU:CB	51:CA:255:LYS:CB	2.86	0.53
52:CS:168:THR:CG2	52:CS:170:LYS:O	2.57	0.53
56:CX:52:LEU:HD13	56:CX:53:ARG:C	2.32	0.53
57:CY:38:LEU:HD11	57:CY:107:THR:C	2.33	0.53
58:CW:32:LEU:N	58:CW:36:CYS:SG	2.81	0.53
58:CW:70:LYS:O	58:CW:71:ARG:HB3	2.05	0.53
60:Cr:113:ARG:NE	60:Cr:113:ARG:CA	2.60	0.53
63:CB:80:GLU:CD	63:CB:171:LEU:CG	2.81	0.53
63:CB:80:GLU:HG2	63:CB:82:PRO:HD3	1.89	0.53
63:CB:133:TYR:CE1	63:CB:136:LYS:NZ	2.77	0.53
63:CB:179:HIS:CE1	63:CB:344:VAL:HG21	2.43	0.53
64:CF:31:LYS:HD3	85:A5:2098:G:H4'	1.90	0.53
64:CF:200:ARG:NH1	64:CF:203:GLU:OE1	2.23	0.53
68:Cf:49:TYR:CD2	68:Cf:49:TYR:O	2.62	0.53
69:Cg:42:PRO:N	69:Cg:52:ARG:CD	2.64	0.53
70:Ci:3:LEU:HD13	70:Ci:4:ARG:H	1.73	0.53
74:CC:285:ILE:O	74:CC:286:ASN:CG	2.51	0.53
80:CH:49:GLY:N	80:CH:50:LYS:HZ1	2.05	0.53
82:CG:208:ASN:HD21	82:CG:210:GLU:CB	2.20	0.53
1:Az:111:PHE:CD2	1:Az:141:THR:HG23	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:120:ARG:NH1	1:Az:496:VAL:O	2.42	0.53
1:Az:745:TYR:HA	1:Az:815:ASP:CB	2.39	0.53
1:Az:746:LEU:HD11	1:Az:785:LYS:HB3	1.90	0.53
11:AL:22:ARG:NH2	33:AI:158:ILE:C	2.66	0.53
11:AL:71:ARG:HD2	11:AL:73:LEU:HD21	1.77	0.53
13:AP:90:VAL:HA	13:AP:107:ILE:HG13	1.90	0.53
18:AY:17:LEU:HD12	18:AY:17:LEU:C	2.34	0.53
18:AY:37:LYS:HA	18:AY:40:ILE:HG22	1.90	0.53
18:AY:118:ARG:O	18:AY:119:GLY:C	2.51	0.53
18:AY:120:THR:O	18:AY:122:LYS:N	2.37	0.53
19:AZ:46:ASN:HB3	19:AZ:80:ARG:HA	1.90	0.53
23:AD:47:GLU:HG3	23:AD:85:GLU:OE2	1.99	0.53
26:AJ:83:ARG:NH2	26:AJ:150:ARG:NH2	2.57	0.53
27:AE:124:CYS:HB2	27:AE:162:ILE:CD1	2.39	0.53
27:AE:129:ILE:CD1	27:AE:139:LEU:HD22	2.32	0.53
27:AE:256:LEU:HD12	27:AE:256:LEU:C	2.34	0.53
27:AE:259:LYS:CG	27:AE:260:GLN:OE1	2.56	0.53
30:AF:167:LYS:HE3	30:AF:171:GLU:HG3	1.89	0.53
38:Cz:34:LEU:HD23	38:Cz:35:GLN:N	2.24	0.53
38:Cz:116:LEU:O	38:Cz:120:ILE:HG22	2.08	0.53
39:Cq:28:PHE:HE1	39:Cq:192:VAL:CG2	2.10	0.53
39:Cq:212:HIS:CE1	83:Cs:54:VAL:HG13	2.42	0.53
40:CK:94:LYS:HG2	40:CK:96:LYS:HG3	1.76	0.53
40:CK:123:ARG:NE	40:CK:129:ILE:CD1	2.64	0.53
46:CN:76:PRO:O	46:CN:77:LYS:HG3	2.09	0.53
46:CN:194:ARG:HG2	46:CN:194:ARG:HH21	1.73	0.53
47:CI:104:SER:O	47:CI:105:CYS:CB	2.48	0.53
47:CI:192:PRO:HD2	47:CI:192:PRO:O	2.08	0.53
48:CD:66:TYR:CD2	48:CD:66:TYR:N	2.70	0.53
48:CD:205:ALA:HA	48:CD:236:MET:SD	2.49	0.53
50:CR:63:CYS:O	50:CR:64:ARG:C	2.52	0.53
51:CA:66:PRO:HB2	51:CA:67:TYR:HD2	1.62	0.53
51:CA:144:LYS:HE3	51:CA:160:SER:CB	2.38	0.53
51:CA:188:LYS:CG	51:CA:189:TYR:CD2	2.91	0.53
51:CA:219:ILE:CG2	51:CA:220:GLY:H	1.83	0.53
52:CS:124:ILE:CG2	52:CS:125:GLN:N	2.72	0.53
53:CT:17:ARG:HH21	53:CT:17:ARG:HG3	1.70	0.53
53:CT:137:GLU:O	64:CF:85:ALA:CA	2.56	0.53
53:CT:144:ASN:CA	53:CT:146:LYS:H	2.22	0.53
56:CX:89:LYS:CE	56:CX:97:VAL:HG23	2.35	0.53
56:CX:117:TYR:CA	56:CX:119:ILE:HG22	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:9:LEU:CA	61:Ch:12:LYS:HE3	2.39	0.53
61:Ch:86:LYS:HD2	61:Ch:87:LYS:N	2.23	0.53
63:CB:119:TYR:CE1	63:CB:125:SER:HB3	2.43	0.53
63:CB:239:LYS:CE	85:A5:3844:U:H3'	2.39	0.53
63:CB:297:LYS:C	63:CB:297:LYS:HD2	2.33	0.53
63:CB:352:LEU:HD21	63:CB:353:VAL:O	2.08	0.53
68:Cf:5:LEU:O	68:Cf:104:MET:SD	2.67	0.53
68:Cf:18:LEU:HD21	85:A5:1915:C:C6	2.43	0.53
68:Cf:33:VAL:CA	68:Cf:34:TYR:CD1	2.91	0.53
68:Cf:63:LYS:H	68:Cf:64:PRO:HD2	1.74	0.53
70:Cl:76:ARG:HE	70:Cl:76:ARG:HA	1.74	0.53
73:Cl:2:SER:O	73:Cl:4:HIS:N	2.41	0.53
74:CC:31:PRO:HG3	74:CC:280:PRO:HB2	1.91	0.53
79:CJ:20:LEU:HD22	79:CJ:83:LEU:CD2	2.38	0.53
80:CH:78:GLN:HB3	80:CH:82:LYS:HE3	1.91	0.53
81:CE:55:GLY:O	81:CE:56:ARG:HB3	2.07	0.53
85:A5:2776:G:O2'	85:A5:2777:G:H5'	2.08	0.53
1:Az:82:SER:O	1:Az:86:LEU:HD12	2.05	0.53
1:Az:343:TRP:O	1:Az:343:TRP:HE3	1.90	0.53
1:Az:617:ILE:CG1	1:Az:622:VAL:CG2	2.87	0.53
1:Az:752:PRO:CD	1:Az:755:VAL:HG23	2.35	0.53
1:Az:829:SER:CB	1:Az:832:SER:CA	2.86	0.53
2:Ag:55:PRO:CD	34:AQ:102:GLU:OE1	2.54	0.53
2:Ag:261:LEU:HD22	2:Ag:261:LEU:H	1.74	0.53
3:AU:64:THR:HG22	3:AU:79:ARG:CD	2.39	0.53
7:AM:94:ILE:H	7:AM:101:ARG:HD3	1.73	0.53
11:AL:25:LEU:O	11:AL:27:GLU:HA	2.09	0.53
12:AR:19:LYS:HZ3	23:AD:212:GLU:HG2	1.73	0.53
13:AP:93:MET:SD	13:AP:106:GLU:CA	2.96	0.53
14:AT:129:ARG:HB2	36:B2:1417:C:H4'	1.91	0.53
15:AB:19:LYS:HB2	15:AB:19:LYS:HZ2	1.63	0.53
15:AB:81:PHE:O	15:AB:82:ARG:CB	2.57	0.53
16:AA:16:LEU:CB	16:AA:17:LYS:HE2	2.39	0.53
16:AA:18:PHE:CZ	16:AA:55:TRP:CZ3	2.96	0.53
18:AY:50:THR:O	18:AY:51:THR:HG23	2.09	0.53
21:Ab:83:GLN:NE2	21:Ab:83:GLN:HA	2.22	0.53
23:AD:177:LEU:HD22	23:AD:182:LEU:CD2	2.25	0.53
25:Af:82:LYS:NZ	36:B2:1509:U:C2	2.77	0.53
27:AE:100:ARG:NH2	27:AE:122:LYS:HA	2.24	0.53
28:AC:108:LYS:HE3	28:AC:110:MET:CG	2.39	0.53
28:AC:118:ALA:HB3	36:B2:1486:A:H1'	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:169:TYR:CE1	28:AC:177:PRO:CD	2.92	0.53
29:AG:32:MET:HE3	29:AG:100:CYS:O	2.08	0.53
29:AG:135:PRO:CD	29:AG:144:LEU:HD23	2.38	0.53
29:AG:143:LYS:HA	29:AG:143:LYS:CE	2.39	0.53
33:AI:6:ASP:OD2	33:AI:8:TRP:CG	2.62	0.53
34:AQ:24:HIS:NE2	34:AQ:69:ARG:CB	2.68	0.53
34:AQ:130:LYS:HE3	36:B2:1669:G:H5''	1.91	0.53
34:AQ:143:LYS:HG2	34:AQ:145:TYR:H	1.74	0.53
36:B2:465:A:H1'	36:B2:466:G:OP2	2.09	0.53
36:B2:530:U:H5	36:B2:531:A:C5	2.26	0.53
38:Cz:95:LYS:HD2	38:Cz:95:LYS:N	2.24	0.53
39:Cq:6:ARG:NE	39:Cq:10:LYS:CE	2.71	0.53
40:CK:88:PRO:HD2	40:CK:88:PRO:O	2.08	0.53
40:CK:114:ARG:HE	40:CK:130:LYS:CE	2.22	0.53
42:CL:80:GLU:CG	42:CL:104:ASN:HD21	2.17	0.53
44:CM:4:ARG:C	44:CM:5:ARG:HG2	2.34	0.53
46:CN:32:GLN:CB	82:CG:67:ARG:HH22	2.21	0.53
47:CI:39:LYS:HA	47:CI:86:HIS:NE2	2.24	0.53
48:CD:33:ARG:HE	53:CT:27:LEU:CD1	2.22	0.53
48:CD:60:ILE:HB	48:CD:80:ALA:HB2	1.91	0.53
52:CS:81:TRP:C	52:CS:127:MET:HB3	2.33	0.53
52:CS:150:ILE:CD1	52:CS:151:LYS:H	2.19	0.53
53:CT:12:ARG:C	53:CT:13:TYR:CD2	2.87	0.53
53:CT:65:TYR:CD2	53:CT:73:GLY:O	2.62	0.53
56:CX:93:ASN:O	56:CX:95:THR:HG23	2.08	0.53
58:CW:1:MET:SD	63:CB:367:PHE:CB	2.97	0.53
59:CZ:10:VAL:C	59:CZ:83:THR:HG21	2.33	0.53
59:CZ:91:LEU:C	59:CZ:117:LYS:CE	2.82	0.53
60:Cr:25:TYR:HB3	67:Ce:87:VAL:HG11	1.91	0.53
60:Cr:114:ALA:O	60:Cr:118:LEU:HG	2.09	0.53
61:Ch:62:ASN:HB3	87:A8:97:A:OP1	2.09	0.53
61:Ch:121:VAL:CG1	61:Ch:122:LYS:N	2.72	0.53
63:CB:112:ASP:C	63:CB:114:CYS:H	2.14	0.53
63:CB:195:ASP:HA	63:CB:198:ARG:CG	2.38	0.53
67:Ce:50:LYS:HE3	68:Cf:20:ASN:HD21	1.66	0.53
68:Cf:71:TRP:CZ2	85:A5:4943:A:H2'	2.44	0.53
74:CC:154:VAL:HG22	74:CC:174:LEU:CD1	2.30	0.53
75:Cm:103:LEU:HD12	75:Cm:121:LEU:HD22	1.90	0.53
82:CG:166:LEU:C	82:CG:167:VAL:CG2	2.82	0.53
83:Cs:21:VAL:CG1	83:Cs:27:LYS:HZ3	2.17	0.53
85:A5:2809:G:C6	85:A5:2810:U:C4	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:4242:U:N3	85:A5:4281:A:C2	2.76	0.53
1:Az:103:ILE:HD11	1:Az:122:THR:HG21	1.88	0.53
2:Ag:172:LYS:HG2	2:Ag:191:HIS:O	2.03	0.53
3:AU:50:VAL:CG1	3:AU:51:LYS:N	2.45	0.53
3:AU:79:ARG:HH12	36:B2:1669:G:H4'	1.73	0.53
4:AK:11:ILE:CG2	4:AK:49:MET:HE3	2.06	0.53
4:AK:59:LYS:HD2	4:AK:59:LYS:C	2.34	0.53
6:AX:62:PRO:HD2	6:AX:63:ASN:N	2.23	0.53
7:AM:102:LYS:O	7:AM:103:VAL:C	2.52	0.53
8:AS:71:MET:HG3	8:AS:99:LEU:HD13	1.91	0.53
9:Ad:30:LEU:HD23	9:Ad:38:MET:C	2.33	0.53
11:AL:134:LEU:HD23	11:AL:134:LEU:C	2.33	0.53
15:AB:140:VAL:O	15:AB:210:VAL:HA	2.08	0.53
18:AY:33:ALA:C	18:AY:34:THR:HG1	2.16	0.53
21:Ab:78:SER:O	21:Ab:79:PHE:HB3	2.08	0.53
32:AW:81:VAL:HG22	32:AW:89:TRP:NE1	2.24	0.53
36:B2:1434:C:H3'	36:B2:1435:C:O4'	2.08	0.53
36:B2:1552:G:N7	36:B2:1578:U:C4	2.77	0.53
38:Cz:12:GLU:HA	38:Cz:12:GLU:OE1	2.09	0.53
38:Cz:65:VAL:O	38:Cz:83:PRO:HD2	2.08	0.53
41:CO:182:GLU:C	41:CO:186:GLU:H	2.17	0.53
44:CM:51:PRO:CD	44:CM:51:PRO:O	2.55	0.53
46:CN:150:TRP:CZ2	46:CN:151:ILE:CD1	2.91	0.53
47:CI:80:CYS:SG	47:CI:147:HIS:CE1	3.02	0.53
48:CD:164:LYS:CE	48:CD:168:ASP:CG	2.78	0.53
48:CD:210:TYR:CD2	48:CD:211:LEU:CD2	2.92	0.53
48:CD:211:LEU:O	48:CD:212:MET:C	2.49	0.53
49:CQ:33:ARG:CG	49:CQ:48:LEU:CD1	2.86	0.53
51:CA:209:HIS:CE1	51:CA:211:PHE:HB2	2.44	0.53
52:CS:82:LEU:HG	52:CS:83:ARG:N	2.24	0.53
53:CT:135:PRO:HG3	64:CF:88:LYS:CE	2.39	0.53
54:CP:4:TYR:O	54:CP:5:SER:CB	2.55	0.53
54:CP:21:ASN:OD1	54:CP:123:PRO:HD2	2.09	0.53
55:CU:83:LEU:HD23	55:CU:110:TYR:CD2	2.43	0.53
59:CZ:105:ALA:CA	59:CZ:108:ARG:CG	2.86	0.53
61:Ch:77:LYS:HG2	61:Ch:78:TYR:H	1.74	0.53
63:CB:110:ILE:C	63:CB:111:SER:OG	2.53	0.53
63:CB:141:ASP:O	63:CB:145:GLN:N	2.42	0.53
63:CB:245:HIS:CG	63:CB:246:ARG:N	2.77	0.53
63:CB:303:ALA:HB3	63:CB:313:SER:O	2.09	0.53
68:Cf:106:TYR:CA	68:Cf:107:PRO:C	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:Ck:13:LEU:HD23	72:Ck:16:ARG:NH2	2.16	0.53
74:CC:274:LYS:O	74:CC:275:SER:C	2.50	0.53
79:CJ:13:ARG:NH1	79:CJ:136:ARG:HH12	2.07	0.53
79:CJ:48:PRO:CA	79:CJ:72:CYS:HG	2.19	0.53
80:CH:96:TYR:CE1	80:CH:100:PRO:HA	2.44	0.53
80:CH:183:GLU:CD	80:CH:184:LYS:C	2.77	0.53
81:CE:145:THR:HG22	81:CE:148:THR:CB	2.32	0.53
82:CG:41:ILE:O	82:CG:43:GLN:CD	2.52	0.53
82:CG:102:TYR:CB	82:CG:204:PHE:HE1	2.22	0.53
84:Cv:10:ALA:HB1	84:Cv:15:ASN:CB	2.39	0.53
85:A5:135:G:H2'	85:A5:136:C:C6	2.44	0.53
1:Az:364:ALA:HA	1:Az:367:TYR:CZ	2.44	0.52
2:Ag:142:VAL:HG11	2:Ag:177:TRP:CE3	2.44	0.52
2:Ag:191:HIS:NE2	2:Ag:195:LEU:CD2	2.72	0.52
5:AO:33:ILE:HG12	5:AO:42:VAL:HG22	1.91	0.52
5:AO:61:LYS:C	5:AO:62:VAL:HG23	2.27	0.52
8:AS:54:LYS:HB3	8:AS:55:ARG:H	1.73	0.52
12:AR:121:GLN:N	16:AA:44:ASP:OD2	2.42	0.52
13:AP:4:VAL:HG22	13:AP:10:ARG:HD2	1.91	0.52
13:AP:12:PHE:HZ	79:CJ:88:LYS:HE3	1.72	0.52
14:AT:102:ARG:CD	14:AT:105:GLN:OE1	2.57	0.52
15:AB:136:ARG:CD	15:AB:138:PHE:CZ	2.92	0.52
18:AY:30:PRO:O	18:AY:67:GLY:HA3	2.09	0.52
18:AY:117:VAL:HB	18:AY:124:ASN:ND2	2.24	0.52
20:Aa:45:VAL:O	20:Aa:46:GLU:HG3	2.09	0.52
21:Ab:25:VAL:HG13	32:AW:55:ASP:CB	2.40	0.52
23:AD:45:ARG:CA	23:AD:83:SER:OG	2.56	0.52
23:AD:208:VAL:O	23:AD:208:VAL:HG12	2.08	0.52
25:Af:146:LEU:HD22	36:B2:1292:C:H5'	1.90	0.52
26:AJ:21:GLU:O	26:AJ:24:ARG:N	2.42	0.52
27:AE:98:ASN:ND2	27:AE:114:ILE:CG1	2.72	0.52
29:AG:58:LYS:O	29:AG:59:GLN:CB	2.57	0.52
29:AG:127:THR:C	29:AG:128:THR:OG1	2.52	0.52
29:AG:170:ARG:HG2	36:B2:71:G:C6	2.44	0.52
30:AF:133:THR:O	30:AF:135:ARG:HG2	2.08	0.52
30:AF:138:ALA:CB	30:AF:204:ARG:HB3	2.39	0.52
31:AH:23:ILE:O	31:AH:27:LEU:HD23	2.09	0.52
33:AI:141:ARG:HB3	33:AI:144:LYS:HG2	1.90	0.52
34:AQ:111:ILE:O	34:AQ:114:GLN:CG	2.55	0.52
34:AQ:116:ASP:CG	34:AQ:118:THR:H	2.17	0.52
35:Ah:149:GLY:O	35:Ah:153:VAL:CG2	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:1757:G:H1	36:B2:1775:U:H3	1.56	0.52
38:Cz:26:ARG:NE	38:Cz:210:MET:CE	2.72	0.52
39:Cq:25:PRO:HD2	39:Cq:26:LYS:N	2.19	0.52
39:Cq:80:PRO:CB	39:Cq:81:HIS:HE1	2.11	0.52
39:Cq:136:SER:O	39:Cq:137:PHE:C	2.50	0.52
39:Cq:165:ASP:OD1	39:Cq:166:LYS:N	2.42	0.52
41:CO:58:LEU:O	41:CO:61:ARG:NE	2.42	0.52
41:CO:118:MET:CB	52:CS:167:PHE:CB	2.86	0.52
43:CV:87:SER:HA	43:CV:97:TYR:HB3	1.92	0.52
46:CN:56:LYS:HG3	46:CN:59:TYR:HD2	1.74	0.52
48:CD:33:ARG:HH11	48:CD:50:ARG:HH12	1.57	0.52
48:CD:44:TYR:OH	53:CT:34:TYR:O	2.27	0.52
48:CD:47:PRO:HG2	48:CD:49:TYR:CE2	2.44	0.52
49:CQ:27:LEU:HD22	74:CC:289:LEU:CD2	2.38	0.52
49:CQ:61:LEU:CD1	49:CQ:139:LEU:CB	2.85	0.52
49:CQ:172:ARG:HA	49:CQ:176:ARG:HD2	1.89	0.52
50:CR:84:THR:HG22	50:CR:85:ALA:N	2.23	0.52
51:CA:255:LYS:C	51:CA:256:GLU:O	2.43	0.52
54:CP:36:ILE:HG23	54:CP:44:ALA:HB1	1.90	0.52
55:CU:23:LEU:HD21	55:CU:110:TYR:HB2	1.91	0.52
56:CX:76:ILE:CG2	56:CX:112:ALA:HB1	2.37	0.52
58:CW:31:PHE:HE1	58:CW:40:PHE:CG	2.27	0.52
60:Cr:82:ILE:O	60:Cr:83:ASN:CG	2.52	0.52
63:CB:21:ARG:HG3	63:CB:22:SER:N	2.24	0.52
63:CB:87:VAL:CG2	63:CB:163:ILE:O	2.57	0.52
63:CB:311:ASP:CG	63:CB:312:LYS:H	2.17	0.52
70:Ci:25:ARG:HB2	70:Ci:28:ARG:CZ	2.39	0.52
70:Ci:43:MET:CG	70:Ci:44:ILE:N	2.71	0.52
72:Ck:24:LYS:HE3	72:Ck:67:LYS:HB3	1.88	0.52
72:Ck:60:LEU:HD12	72:Ck:60:LEU:C	2.34	0.52
73:Cl:6:THR:OG1	73:Cl:7:PHE:N	2.42	0.52
74:CC:101:MET:CE	74:CC:104:PRO:HA	2.39	0.52
74:CC:317:ASN:HD21	74:CC:319:LEU:HD12	1.74	0.52
78:Co:72:CYS:SG	78:Co:73:VAL:CB	2.96	0.52
79:CJ:83:LEU:HD22	79:CJ:132:VAL:CG2	2.18	0.52
81:CE:85:LYS:HB2	81:CE:92:VAL:HG13	1.87	0.52
81:CE:112:MET:CG	81:CE:113:PRO:N	2.72	0.52
81:CE:215:ALA:O	81:CE:218:LYS:HE2	2.09	0.52
82:CG:40:GLY:O	82:CG:43:GLN:CG	2.46	0.52
82:CG:113:ARG:CG	82:CG:113:ARG:NH2	2.37	0.52
85:A5:1444:G:H2'	85:A5:1445:U:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:2021:G:H2'	85:A5:2022:C:C6	2.44	0.52
1:Az:301:PHE:CE2	1:Az:336:LEU:HD21	2.44	0.52
2:Ag:5:MET:HE1	2:Ag:312:VAL:CG2	2.39	0.52
2:Ag:119:GLN:HG3	2:Ag:120:ILE:N	2.24	0.52
3:AU:25:THR:HG22	3:AU:86:LYS:CG	2.35	0.52
4:AK:1:MET:HE3	36:B2:1274:G:C2	2.43	0.52
5:AO:88:LEU:HD21	15:AB:25:PHE:HD2	1.66	0.52
8:AS:23:ARG:HD3	19:AZ:48:VAL:CB	2.34	0.52
10:AN:25:TRP:CH2	21:Ab:45:THR:HG21	2.44	0.52
10:AN:116:ILE:C	10:AN:119:GLU:HG3	2.34	0.52
11:AL:59:LYS:CD	11:AL:112:HIS:NE2	2.72	0.52
12:AR:82:ASP:O	16:AA:89:LYS:HE3	2.09	0.52
18:AY:13:MET:HE3	18:AY:14:THR:C	2.32	0.52
18:AY:54:VAL:CG1	18:AY:54:VAL:O	2.57	0.52
21:Ab:54:VAL:CG1	21:Ab:63:LEU:HD22	2.40	0.52
22:Ac:6:VAL:CG1	22:Ac:7:GLN:N	2.70	0.52
22:Ac:59:LEU:CD1	30:AF:123:GLU:CD	2.58	0.52
23:AD:46:THR:O	23:AD:85:GLU:N	2.39	0.52
23:AD:177:LEU:HD12	23:AD:178:ARG:HH21	1.73	0.52
24:Ae:45:VAL:N	24:Ae:47:PRO:HD2	2.23	0.52
26:AJ:82:VAL:HG13	26:AJ:92:MET:HE3	1.91	0.52
26:AJ:124:HIS:NE2	36:B2:526:A:H5''	2.23	0.52
26:AJ:147:PHE:CE2	26:AJ:149:VAL:HA	2.44	0.52
28:AC:65:LYS:HG3	28:AC:273:LEU:HD13	1.89	0.52
28:AC:104:ASP:HB3	28:AC:130:ILE:CG1	2.38	0.52
28:AC:202:THR:OG1	28:AC:221:ASP:HB3	2.09	0.52
33:AI:3:ILE:O	33:AI:3:ILE:HG23	1.98	0.52
33:AI:138:ASN:C	33:AI:139:LYS:O	2.53	0.52
36:B2:8:U:O2	36:B2:1196:A:OP2	2.26	0.52
36:B2:689:U:H2'	36:B2:690:G:O4'	2.09	0.52
36:B2:1069:U:H4'	51:CA:248:GLY:CA	2.34	0.52
39:Cq:249:LEU:HD12	39:Cq:249:LEU:C	2.34	0.52
40:CK:125:LEU:HD13	40:CK:163:PRO:N	2.21	0.52
42:CL:136:LYS:HD2	42:CL:137:GLY:C	2.34	0.52
42:CL:167:ARG:O	42:CL:170:THR:OG1	2.18	0.52
44:CM:5:ARG:C	44:CM:11:ARG:NH1	2.67	0.52
51:CA:84:THR:HG23	77:Cp:63:THR:HB	1.91	0.52
52:CS:80:ILE:HD11	52:CS:126:ILE:HD12	1.90	0.52
52:CS:159:LEU:HD23	52:CS:160:ARG:CA	2.34	0.52
53:CT:36:LYS:C	53:CT:36:LYS:HD2	2.34	0.52
54:CP:91:LEU:HD12	54:CP:91:LEU:C	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:297:LYS:C	63:CB:300:LYS:CE	2.68	0.52
64:CF:89:LEU:HD22	64:CF:90:ALA:N	2.25	0.52
66:Cd:77:ILE:HD12	85:A5:2370:A:C5	2.44	0.52
68:Cf:33:VAL:CG2	68:Cf:82:GLY:CA	2.87	0.52
68:Cf:39:THR:OG1	68:Cf:84:VAL:HG22	2.09	0.52
71:Cj:20:ARG:HD3	71:Cj:20:ARG:N	2.24	0.52
74:CC:41:HIS:NE2	74:CC:238:LEU:HD23	2.25	0.52
74:CC:190:ARG:HA	74:CC:202:ILE:HD12	1.89	0.52
77:Cp:50:ARG:HH11	77:Cp:54:ILE:HG21	1.74	0.52
80:CH:5:LEU:HD12	80:CH:5:LEU:C	2.35	0.52
81:CE:125:LEU:HB3	81:CE:126:LEU:O	2.10	0.52
82:CG:143:VAL:C	82:CG:146:LEU:CD1	2.70	0.52
85:A5:1719:A:H8	85:A5:1834:U:H3	1.57	0.52
85:A5:2551:A:OP1	85:A5:2553:A:N6	2.42	0.52
85:A5:2809:G:C5	85:A5:2810:U:C4	2.97	0.52
85:A5:4127:A:O2'	85:A5:4128:A:H5''	2.09	0.52
1:Az:543:GLU:CD	1:Az:576:VAL:CB	2.82	0.52
1:Az:591:CYS:SG	1:Az:732:SER:CA	2.97	0.52
2:Ag:218:LEU:HD23	2:Ag:230:LEU:CD1	2.39	0.52
4:AK:40:VAL:HG22	4:AK:41:PRO:C	2.30	0.52
4:AK:43:LEU:H	4:AK:46:MET:HB3	1.73	0.52
4:AK:47:LYS:CD	4:AK:50:GLN:NE2	2.72	0.52
4:AK:49:MET:HB2	4:AK:69:TRP:CZ2	2.44	0.52
4:AK:50:GLN:HG3	4:AK:51:SER:N	2.25	0.52
7:AM:95:ASP:O	7:AM:96:ARG:HG2	2.09	0.52
8:AS:88:LYS:CD	13:AP:37:TYR:HA	2.40	0.52
8:AS:103:LEU:HD12	8:AS:103:LEU:C	2.33	0.52
10:AN:19:ARG:HH12	21:Ab:84:HIS:HB2	1.74	0.52
10:AN:84:LEU:C	10:AN:84:LEU:HD12	2.34	0.52
11:AL:147:LYS:CE	11:AL:156:GLN:HE22	2.22	0.52
11:AL:149:ALA:CB	11:AL:156:GLN:CD	2.26	0.52
12:AR:91:LEU:CB	12:AR:92:ASP:C	2.66	0.52
13:AP:41:GLN:NE2	13:AP:41:GLN:O	2.42	0.52
14:AT:31:PRO:O	14:AT:32:GLU:C	2.48	0.52
14:AT:39:LEU:O	14:AT:39:LEU:HG	2.09	0.52
14:AT:46:ALA:CB	14:AT:47:PRO:CD	2.43	0.52
14:AT:72:VAL:O	14:AT:76:THR:HG23	2.09	0.52
14:AT:85:ASN:ND2	14:AT:91:HIS:HD2	2.06	0.52
14:AT:123:LEU:N	14:AT:123:LEU:HD23	2.24	0.52
17:AV:42:VAL:C	17:AV:43:THR:OG1	2.51	0.52
24:Ae:28:LYS:HG2	24:Ae:33:LYS:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Af:135:HIS:ND1	25:Af:138:ARG:HG2	2.22	0.52
25:Af:148:TYR:N	25:Af:148:TYR:CD1	2.72	0.52
27:AE:45:ILE:HG23	27:AE:46:ILE:N	2.24	0.52
27:AE:139:LEU:HD13	27:AE:154:ILE:CG2	2.33	0.52
28:AC:62:PRO:HA	28:AC:90:GLU:OE2	2.10	0.52
28:AC:170:TRP:H	28:AC:178:HIS:CE1	2.27	0.52
30:AF:93:VAL:C	30:AF:97:PHE:CD1	2.86	0.52
31:AH:158:LEU:O	31:AH:190:PRO:HD3	2.10	0.52
32:AW:104:LEU:HD12	32:AW:104:LEU:C	2.34	0.52
34:AQ:84:ILE:HG13	34:AQ:85:ARG:N	2.24	0.52
38:Cz:29:LEU:HD21	38:Cz:173:LYS:CA	2.39	0.52
38:Cz:119:GLN:O	38:Cz:123:ILE:HD13	2.10	0.52
38:Cz:202:ARG:HA	38:Cz:202:ARG:NH1	2.23	0.52
39:Cq:95:LEU:C	39:Cq:204:LEU:CD2	2.78	0.52
39:Cq:139:GLN:HA	39:Cq:142:GLY:CA	2.30	0.52
39:Cq:159:GLN:CB	39:Cq:162:LYS:HE3	2.38	0.52
41:CO:32:LYS:HG2	41:CO:101:ARG:HB3	1.92	0.52
41:CO:143:HIS:CB	41:CO:150:GLN:OE1	2.55	0.52
43:CV:83:ARG:O	43:CV:101:ASN:HA	2.08	0.52
46:CN:47:LYS:CA	46:CN:49:ARG:O	2.57	0.52
46:CN:79:ALA:O	46:CN:80:THR:HG23	2.10	0.52
47:CI:52:MET:HE1	47:CI:152:LEU:O	2.08	0.52
47:CI:97:ILE:CD1	47:CI:126:VAL:CG2	2.87	0.52
49:CQ:28:LEU:HD12	49:CQ:28:LEU:C	2.34	0.52
50:CR:95:TRP:HH2	50:CR:130:ASN:CB	2.16	0.52
51:CA:15:VAL:O	51:CA:15:VAL:CG1	2.56	0.52
52:CS:78:PHE:CD1	52:CS:130:GLU:C	2.87	0.52
53:CT:5:LYS:O	53:CT:9:ARG:HD3	2.09	0.52
53:CT:132:PRO:HD2	64:CF:126:ASN:HD21	1.74	0.52
54:CP:65:GLY:O	54:CP:67:VAL:HG23	2.09	0.52
56:CX:87:MET:SD	56:CX:155:ILE:HD11	2.49	0.52
57:CY:65:GLN:O	57:CY:66:GLN:HB2	2.09	0.52
58:CW:23:ARG:CZ	58:CW:23:ARG:CB	2.85	0.52
59:CZ:85:TYR:CE2	69:Cg:99:GLU:OE2	2.63	0.52
63:CB:92:TYR:CB	63:CB:99:LEU:HD21	2.36	0.52
63:CB:109:HIS:CB	63:CB:202:GLU:OE2	2.57	0.52
63:CB:212:GLY:CA	63:CB:287:ILE:HD11	2.39	0.52
63:CB:312:LYS:CG	63:CB:313:SER:N	2.03	0.52
64:CF:93:ILE:HD11	64:CF:244:ILE:HD13	1.91	0.52
65:Cc:13:SER:CB	65:Cc:17:ARG:NE	2.67	0.52
67:Ce:5:ARG:HB3	67:Ce:6:PRO:CD	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:35:TRP:HH2	67:Ce:55:MET:HG2	1.74	0.52
68:Cf:64:PRO:HB3	85:A5:4945:G:O6	2.09	0.52
78:Co:91:PHE:CD2	78:Co:91:PHE:O	2.62	0.52
79:CJ:146:ARG:NH2	79:CJ:147:ARG:HE	2.06	0.52
80:CH:18:ILE:CG1	80:CH:55:LEU:CD1	2.87	0.52
81:CE:248:ILE:HG23	81:CE:249:ASP:N	2.24	0.52
82:CG:27:VAL:HA	82:CG:30:PRO:HG2	1.91	0.52
82:CG:77:PRO:C	82:CG:81:ASN:HD22	2.16	0.52
82:CG:83:PHE:O	82:CG:84:THR:OG1	2.28	0.52
82:CG:208:ASN:ND2	82:CG:210:GLU:CB	2.72	0.52
83:Cs:22:THR:N	83:Cs:27:LYS:HZ2	2.05	0.52
85:A5:3974:G:H2'	85:A5:3975:C:C6	2.43	0.52
1:Az:692:LEU:N	1:Az:692:LEU:HD22	2.24	0.52
1:Az:739:ARG:C	1:Az:824:PRO:HD3	2.34	0.52
1:Az:754:GLN:OE1	1:Az:755:VAL:CG2	2.50	0.52
3:AU:88:LEU:HD12	3:AU:88:LEU:C	2.35	0.52
4:AK:14:LEU:CD1	4:AK:35:LEU:HD11	2.38	0.52
6:AX:52:LEU:HD12	6:AX:52:LEU:C	2.34	0.52
6:AX:126:ALA:O	6:AX:128:VAL:HG23	2.08	0.52
8:AS:46:ARG:NH1	14:AT:50:GLU:CB	2.71	0.52
10:AN:15:ALA:C	21:Ab:26:GLN:NE2	2.67	0.52
12:AR:13:ALA:HB1	12:AR:57:LEU:HD12	1.92	0.52
13:AP:56:LEU:HD11	13:AP:80:LEU:CD1	2.39	0.52
14:AT:23:LYS:HD3	14:AT:54:TYR:CD1	2.33	0.52
15:AB:29:ASP:OD1	15:AB:29:ASP:C	2.49	0.52
15:AB:87:ILE:HD12	15:AB:220:LYS:NZ	2.22	0.52
17:AV:29:HIS:HE1	28:AC:86:LEU:O	1.83	0.52
19:AZ:65:TYR:HD2	19:AZ:68:ILE:CD1	2.22	0.52
20:Aa:85:ARG:N	36:B2:1866:A:H61	2.07	0.52
26:AJ:72:PHE:CZ	27:AE:248:ILE:CG1	2.89	0.52
26:AJ:79:ARG:NH1	26:AJ:83:ARG:HD2	2.25	0.52
26:AJ:94:LEU:HD12	26:AJ:94:LEU:C	2.34	0.52
27:AE:11:ARG:C	27:AE:12:VAL:HG23	2.35	0.52
27:AE:165:GLU:OE2	27:AE:165:GLU:HA	2.05	0.52
28:AC:88:ILE:O	28:AC:88:ILE:HG23	2.08	0.52
29:AG:130:PRO:CB	58:CW:83:THR:HG22	2.38	0.52
29:AG:162:LEU:HD21	29:AG:170:ARG:HB2	1.87	0.52
29:AG:185:LEU:CA	29:AG:188:LYS:HE3	2.40	0.52
30:AF:134:VAL:HG12	30:AF:136:ARG:CZ	2.39	0.52
31:AH:64:VAL:CG1	31:AH:65:PRO:HD2	2.39	0.52
33:AI:182:CYS:SG	36:B2:305:U:O4	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:Ah:145:LYS:O	35:Ah:147:GLU:N	2.41	0.52
36:B2:1418:C:H42	36:B2:1421:A:H62	1.55	0.52
38:Cz:65:VAL:CG1	38:Cz:82:ILE:HD11	2.38	0.52
38:Cz:85:MET:HG2	38:Cz:89:ALA:HB2	1.90	0.52
44:CM:25:VAL:CG1	44:CM:39:ASP:CA	2.87	0.52
44:CM:77:TRP:CG	44:CM:82:ILE:HD11	2.40	0.52
44:CM:82:ILE:O	44:CM:83:ASN:CB	2.57	0.52
46:CN:42:PRO:HD3	46:CN:61:ILE:HD13	1.92	0.52
47:CI:76:MET:CE	47:CI:151:ALA:CB	2.85	0.52
47:CI:104:SER:HA	47:CI:112:GLN:CD	2.34	0.52
48:CD:57:ASN:HA	48:CD:58:ARG:NE	2.20	0.52
48:CD:111:ASN:C	48:CD:113:PHE:H	2.16	0.52
52:CS:82:LEU:HD12	52:CS:125:GLN:O	2.10	0.52
53:CT:40:VAL:CB	53:CT:96:ILE:CG2	2.84	0.52
53:CT:146:LYS:O	53:CT:147:GLU:HG3	2.10	0.52
56:CX:77:ILE:HD11	56:CX:113:VAL:CG2	2.38	0.52
57:CY:118:ILE:CG2	57:CY:122:LYS:HE2	2.39	0.52
58:CW:14:TYR:CZ	63:CB:380:GLN:HG2	2.45	0.52
58:CW:21:TYR:CE2	58:CW:23:ARG:CA	2.92	0.52
58:CW:77:LYS:C	58:CW:78:PHE:CD2	2.87	0.52
60:Cr:31:ASN:O	60:Cr:32:LEU:CB	2.57	0.52
60:Cr:50:GLY:N	60:Cr:64:ILE:HG23	2.23	0.52
60:Cr:70:GLN:NE2	60:Cr:70:GLN:CA	2.67	0.52
60:Cr:89:THR:O	60:Cr:92:SER:N	2.40	0.52
60:Cr:93:ILE:HA	60:Cr:96:MET:HG2	1.91	0.52
62:Cb:39:PHE:HZ	85:A5:1824:G:HO2'	1.54	0.52
64:CF:134:ARG:HA	64:CF:137:GLU:HG3	1.90	0.52
66:Cd:77:ILE:CD1	85:A5:2370:A:C4	2.92	0.52
66:Cd:97:ASP:OD2	66:Cd:98:SER:N	2.42	0.52
68:Cf:9:ALA:HB3	68:Cf:101:ILE:HG12	1.92	0.52
69:Cg:78:TYR:CE1	69:Cg:82:MET:HE3	2.44	0.52
74:CC:11:TYR:O	74:CC:155:GLU:HB2	2.09	0.52
74:CC:158:VAL:CA	74:CC:161:TYR:HE2	2.16	0.52
77:Cp:17:ARG:O	77:Cp:18:TYR:CB	2.57	0.52
80:CH:86:LEU:HD23	80:CH:189:GLN:CB	2.35	0.52
81:CE:228:GLN:C	81:CE:230:GLY:N	2.46	0.52
81:CE:233:PHE:CB	81:CE:235:THR:OG1	2.44	0.52
82:CG:156:VAL:HG11	82:CG:190:LEU:CD1	2.39	0.52
84:Cu:24:LYS:HG2	84:Cu:39:LEU:CD1	2.40	0.52
85:A5:52:G:H4'	85:A5:1529:G:H4'	1.92	0.52
85:A5:1246:G:C6	85:A5:1247:U:C4	2.97	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:2666:U:O4	85:A5:2669:C:C4	2.63	0.52
85:A5:3892:U:H2'	85:A5:3893:C:C6	2.45	0.52
85:A5:4083:U:O2	85:A5:4085:A:H4'	2.10	0.52
86:A7:47:G:H2'	86:A7:48:G:H5'	1.92	0.52
87:A8:128:C:C6	87:A8:129:C:C5	2.97	0.52
1:Az:64:GLN:O	1:Az:64:GLN:NE2	2.42	0.52
1:Az:154:VAL:HG11	1:Az:358:LEU:HD21	1.89	0.52
1:Az:394:LEU:CD2	1:Az:485:ILE:HG22	2.39	0.52
1:Az:403:PRO:HA	1:Az:410:PHE:CD2	2.44	0.52
1:Az:442:LEU:CD2	1:Az:444:LEU:HD11	2.36	0.52
2:Ag:4:GLN:HG2	2:Ag:5:MET:N	2.25	0.52
2:Ag:164:ILE:HG23	2:Ag:176:VAL:HG13	1.92	0.52
4:AK:27:VAL:O	4:AK:28:HIS:CG	2.63	0.52
5:AO:20:GLN:HG2	5:AO:21:VAL:CA	2.38	0.52
8:AS:88:LYS:N	8:AS:95:TYR:CD1	2.72	0.52
8:AS:141:ARG:CD	36:B2:1523:C:H5	2.23	0.52
9:Ad:28:HIS:CD2	36:B2:1326:U:O4	2.63	0.52
12:AR:17:ILE:CG2	12:AR:71:ILE:HD11	2.40	0.52
12:AR:44:LYS:CD	12:AR:47:ARG:NH2	2.70	0.52
12:AR:61:ILE:CG2	12:AR:74:GLN:NE2	2.72	0.52
13:AP:77:LYS:C	13:AP:78:THR:CG2	2.81	0.52
13:AP:127:LYS:HE3	13:AP:128:HIS:N	2.24	0.52
14:AT:5:THR:HG23	14:AT:7:LYS:HB2	1.91	0.52
14:AT:11:GLN:OE1	14:AT:62:ARG:HD3	2.09	0.52
14:AT:85:ASN:ND2	14:AT:90:SER:HA	2.24	0.52
15:AB:137:LEU:HD12	15:AB:176:VAL:HG21	1.91	0.52
18:AY:12:PHE:CD1	18:AY:23:MET:HB3	2.45	0.52
18:AY:58:PHE:HE1	18:AY:72:PHE:CE2	2.28	0.52
18:AY:114:MET:HE1	18:AY:125:VAL:HG22	1.87	0.52
20:Aa:51:ARG:O	20:Aa:55:GLU:HG3	2.10	0.52
21:Ab:6:ASP:C	21:Ab:8:LEU:N	2.67	0.52
22:Ac:55:VAL:CB	30:AF:34:SER:HB3	2.33	0.52
23:AD:197:LYS:C	23:AD:198:ILE:HG23	2.34	0.52
26:AJ:58:ARG:O	26:AJ:62:THR:HG23	2.10	0.52
28:AC:209:VAL:N	28:AC:210:PRO:HD2	2.25	0.52
28:AC:256:TRP:CG	32:AW:68:ARG:NH1	2.73	0.52
30:AF:42:LYS:CD	30:AF:42:LYS:O	2.48	0.52
36:B2:414:A:H61	36:B2:423:U:H3	1.58	0.52
36:B2:1501:C:O2'	36:B2:1502:C:H5'	2.10	0.52
36:B2:1761:U:H3	36:B2:1771:G:H1	1.57	0.52
38:Cz:39:LYS:HG2	38:Cz:202:ARG:CB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:109:ALA:O	39:Cq:184:SER:HB3	2.10	0.52
40:CK:116:MET:CB	40:CK:117:ARG:NH2	2.68	0.52
41:CO:60:LYS:HE3	85:A5:2046:G:C4	2.44	0.52
48:CD:118:ILE:CG2	48:CD:135:ILE:HD13	2.28	0.52
49:CQ:24:TYR:HB3	74:CC:283:LYS:HG3	1.90	0.52
49:CQ:53:MET:HB2	49:CQ:58:ARG:HG3	1.91	0.52
49:CQ:158:THR:HG21	49:CQ:187:LYS:O	2.09	0.52
51:CA:104:VAL:HG13	51:CA:107:MET:HE1	1.82	0.52
51:CA:109:GLU:CD	51:CA:110:GLY:N	2.68	0.52
52:CS:21:LYS:HB2	52:CS:22:CYS:C	2.34	0.52
52:CS:60:GLU:OE2	53:CT:136:ARG:CZ	2.57	0.52
52:CS:158:VAL:CG2	52:CS:161:ARG:HH12	2.22	0.52
53:CT:51:GLY:O	53:CT:52:MET:HG2	2.10	0.52
54:CP:107:LEU:HD23	54:CP:107:LEU:H	1.64	0.52
55:CU:125:GLU:O	55:CU:126:ASP:CB	2.57	0.52
57:CY:42:TYR:HB3	57:CY:119:LEU:CD1	2.30	0.52
60:Cr:30:ASN:HD21	60:Cr:48:THR:CB	2.20	0.52
60:Cr:119:ARG:HA	60:Cr:122:LYS:CG	2.40	0.52
63:CB:153:MET:O	63:CB:157:CYS:HB3	2.09	0.52
63:CB:156:TYR:O	63:CB:157:CYS:HB3	2.09	0.52
65:Cc:94:LEU:CG	65:Cc:95:ALA:N	2.71	0.52
67:Ce:3:ALA:HB2	67:Ce:121:ARG:NE	2.19	0.52
73:Cl:26:TRP:CZ3	73:Cl:27:ILE:CD1	2.91	0.52
74:CC:214:ASP:OD1	74:CC:217:ILE:HG22	2.10	0.52
78:Co:11:PHE:CZ	78:Co:16:GLY:HA2	2.44	0.52
80:CH:12:ILE:CG2	80:CH:52:LYS:HE2	2.40	0.52
80:CH:110:SER:HB2	80:CH:128:MET:HG2	1.82	0.52
80:CH:116:ASN:O	80:CH:119:GLY:N	2.39	0.52
80:CH:117:PHE:CE1	80:CH:165:THR:HB	2.45	0.52
81:CE:93:THR:O	81:CE:94:LYS:HD2	2.10	0.52
82:CG:103:ARG:CA	82:CG:104:PRO:CD	2.88	0.52
85:A5:723:A:C2	85:A5:943:A:N1	2.77	0.52
85:A5:1212:G:H2'	85:A5:1213:G:C8	2.45	0.52
85:A5:1330:A:C2	85:A5:2357:G:C5	2.97	0.52
1:Az:241:GLU:N	1:Az:243:GLN:CD	2.68	0.52
1:Az:297:ILE:O	1:Az:301:PHE:HD1	1.93	0.52
1:Az:330:LYS:NZ	1:Az:330:LYS:CB	2.69	0.52
1:Az:461:ILE:HG23	1:Az:463:ASP:H	1.74	0.52
1:Az:477:GLN:HG2	1:Az:478:PHE:CG	2.45	0.52
1:Az:800:LEU:HD23	1:Az:810:PRO:HD3	1.91	0.52
4:AK:1:MET:HB3	4:AK:47:LYS:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:5:ARG:NH2	6:AX:5:ARG:CG	2.72	0.52
8:AS:23:ARG:O	8:AS:55:ARG:HD2	2.10	0.52
8:AS:26:ILE:CD1	8:AS:59:LEU:CD2	2.81	0.52
11:AL:19:ASN:OD1	33:AI:69:SER:HB3	2.09	0.52
11:AL:117:PHE:CD2	11:AL:145:VAL:HG23	2.44	0.52
13:AP:44:ARG:HG3	36:B2:1620:A:OP1	2.10	0.52
14:AT:45:LEU:HD23	14:AT:48:TYR:HE1	1.73	0.52
14:AT:123:LEU:H	14:AT:123:LEU:HD23	1.74	0.52
16:AA:76:VAL:HG12	16:AA:87:VAL:HB	1.90	0.52
16:AA:184:ARG:N	16:AA:189:ILE:HD12	2.25	0.52
18:AY:10:ARG:CD	18:AY:24:VAL:CG1	2.87	0.52
18:AY:20:ARG:HD3	18:AY:76:TYR:CE1	2.44	0.52
23:AD:217:ILE:HG23	23:AD:218:LEU:N	2.24	0.52
27:AE:122:LYS:CG	27:AE:164:LEU:CD2	2.80	0.52
28:AC:149:THR:HG23	28:AC:150:ALA:N	2.24	0.52
28:AC:157:LEU:O	28:AC:160:LEU:HG	2.10	0.52
28:AC:192:LEU:HD23	28:AC:227:ARG:HG3	1.86	0.52
29:AG:35:GLU:C	29:AG:36:VAL:HG23	2.33	0.52
29:AG:129:VAL:C	58:CW:80:ARG:HE	2.18	0.52
30:AF:43:GLU:O	30:AF:44:LYS:HB2	2.10	0.52
30:AF:115:ALA:HB2	30:AF:177:LEU:HD22	1.92	0.52
32:AW:93:LEU:CD2	32:AW:128:PHE:HD2	2.10	0.52
36:B2:25:A:O2'	36:B2:26:U:C6	2.63	0.52
36:B2:64:A:C2	36:B2:66:G:C8	2.98	0.52
36:B2:845:G:C3'	36:B2:846:G:H8	2.23	0.52
38:Cz:120:ILE:CD1	38:Cz:135:PRO:HG3	2.40	0.52
39:Cq:191:GLN:CD	39:Cq:198:ILE:HG23	2.32	0.52
39:Cq:198:ILE:O	39:Cq:198:ILE:HG22	2.09	0.52
40:CK:50:THR:CG2	40:CK:72:GLU:O	2.57	0.52
41:CO:16:LEU:CD2	41:CO:41:ILE:HD11	2.03	0.52
42:CL:35:ARG:CD	85:A5:1361:G:H5''	2.39	0.52
43:CV:19:GLY:C	43:CV:20:LEU:HD23	2.35	0.52
43:CV:89:ARG:NH1	63:CB:73:VAL:HG23	2.24	0.52
44:CM:89:THR:CB	44:CM:92:ALA:H	2.23	0.52
46:CN:50:ARG:NH2	46:CN:50:ARG:CG	2.67	0.52
46:CN:178:HIS:CB	46:CN:181:HIS:NE2	2.71	0.52
46:CN:183:THR:O	46:CN:184:ILE:CB	2.54	0.52
47:CI:28:ASP:CB	47:CI:32:ARG:HH22	2.20	0.52
49:CQ:50:ARG:HB3	49:CQ:83:VAL:CG1	2.35	0.52
49:CQ:126:LEU:HD13	49:CQ:126:LEU:C	2.35	0.52
50:CR:24:LEU:HD22	50:CR:32:ILE:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:205:ASN:CB	51:CA:206:PRO:CD	2.87	0.52
51:CA:253:GLN:CD	51:CA:255:LYS:HZ2	2.18	0.52
54:CP:26:PHE:CB	54:CP:144:CYS:SG	2.97	0.52
55:CU:40:GLU:OE2	55:CU:70:ILE:CA	2.55	0.52
60:Cr:77:TYR:CD2	60:Cr:79:ARG:CA	2.83	0.52
63:CB:145:GLN:OE1	63:CB:145:GLN:HA	2.06	0.52
63:CB:259:PRO:HG3	85:A5:2044:U:C6	2.45	0.52
64:CF:20:LYS:HA	64:CF:21:LYS:HE3	1.91	0.52
64:CF:186:CYS:SG	64:CF:189:ASP:OD1	2.68	0.52
65:Cc:14:ILE:N	65:Cc:17:ARG:HH21	2.07	0.52
65:Cc:21:VAL:HG22	65:Cc:102:SER:OG	2.10	0.52
65:Cc:48:LEU:CD2	65:Cc:60:ILE:HD13	2.39	0.52
65:Cc:74:TYR:CE2	65:Cc:81:LEU:HD23	2.44	0.52
67:Ce:5:ARG:HA	67:Ce:5:ARG:HE	0.68	0.52
67:Ce:35:TRP:CZ2	67:Ce:55:MET:HG2	2.45	0.52
69:Cg:42:PRO:O	69:Cg:52:ARG:C	2.52	0.52
72:Ck:14:THR:O	72:Ck:17:ARG:HG3	2.05	0.52
74:CC:40:VAL:CG2	74:CC:115:VAL:HG11	2.33	0.52
74:CC:60:HIS:CD2	74:CC:60:HIS:N	2.71	0.52
74:CC:140:LYS:HD3	74:CC:245:HIS:C	2.34	0.52
74:CC:156:ASP:CG	74:CC:255:SER:HB3	2.34	0.52
74:CC:295:SER:CB	74:CC:296:PRO:CD	2.86	0.52
78:Co:39:ARG:HD2	85:A5:295:A:OP2	2.10	0.52
79:CJ:156:ARG:HG2	79:CJ:157:ILE:N	2.25	0.52
80:CH:137:SER:HB3	80:CH:145:ILE:CD1	2.39	0.52
80:CH:183:GLU:OE1	80:CH:184:LYS:CA	2.57	0.52
81:CE:280:GLY:CA	81:CE:282:TYR:HE2	2.23	0.52
83:Ct:17:HIS:CD2	83:Ct:56:ILE:HD13	2.45	0.52
85:A5:4883:C:H3'	85:A5:4884:G:H5''	1.91	0.52
1:Az:281:GLU:CD	1:Az:281:GLU:N	2.67	0.52
1:Az:448:GLN:CA	1:Az:448:GLN:NE2	2.29	0.52
1:Az:593:SER:OG	1:Az:728:CYS:HA	2.09	0.52
1:Az:801:ARG:NE	1:Az:802:SER:HB3	2.24	0.52
2:Ag:9:GLY:O	2:Ag:309:VAL:HG22	2.10	0.52
2:Ag:272:GLN:CD	2:Ag:272:GLN:H	2.17	0.52
2:Ag:273:GLU:HG2	2:Ag:274:VAL:HG22	1.90	0.52
3:AU:16:ALA:O	3:AU:94:PRO:HG3	2.10	0.52
4:AK:4:PRO:CG	4:AK:7:ASN:CG	2.83	0.52
5:AO:62:VAL:CG2	5:AO:72:TYR:CZ	2.91	0.52
6:AX:126:ALA:HB1	6:AX:128:VAL:HB	1.83	0.52
8:AS:54:LYS:HB3	8:AS:55:ARG:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:125:LEU:HD22	10:AN:129:TYR:CE2	2.45	0.52
13:AP:22:LEU:HD12	13:AP:22:LEU:C	2.35	0.52
16:AA:66:VAL:HG11	17:AV:46:PHE:HB3	1.90	0.52
16:AA:122:LEU:HD12	16:AA:137:ALA:CB	2.40	0.52
22:Ac:67:ARG:O	22:Ac:68:LEU:CB	2.58	0.52
23:AD:192:TRP:N	23:AD:192:TRP:HD1	2.07	0.52
24:Ae:45:VAL:O	24:Ae:47:PRO:CG	2.57	0.52
26:AJ:79:ARG:C	26:AJ:79:ARG:CD	2.83	0.52
26:AJ:125:HIS:NE2	26:AJ:129:LEU:HD21	2.25	0.52
27:AE:72:ILE:HD12	27:AE:82:TYR:CD2	2.45	0.52
27:AE:260:GLN:O	27:AE:261:SER:CB	2.57	0.52
28:AC:157:LEU:C	28:AC:160:LEU:HD21	2.33	0.52
29:AG:58:LYS:HG2	29:AG:105:ASN:O	2.09	0.52
33:AI:157:LYS:C	33:AI:158:ILE:O	2.51	0.52
36:B2:742:U:C6	36:B2:743:U:C6	2.98	0.52
36:B2:787:G:H3'	36:B2:788:G:H5''	1.91	0.52
36:B2:1069:U:H5''	51:CA:248:GLY:CA	2.39	0.52
36:B2:1362:U:H5''	36:B2:1363:C:H5	1.75	0.52
38:Cz:32:VAL:HB	38:Cz:169:VAL:HG23	1.92	0.52
39:Cq:246:LYS:HE2	83:Ct:63:VAL:HG12	1.92	0.52
39:Cq:281:VAL:O	39:Cq:281:VAL:HG12	2.09	0.52
40:CK:64:ILE:O	40:CK:70:GLN:HA	2.10	0.52
40:CK:104:ILE:O	40:CK:106:PHE:CD2	2.63	0.52
41:CO:16:LEU:HD21	41:CO:41:ILE:CG2	2.33	0.52
42:CL:59:VAL:HG11	85:A5:74:G:H5''	1.92	0.52
42:CL:65:ARG:CB	45:Ca:109:TYR:OH	2.58	0.52
42:CL:144:LEU:HA	42:CL:148:THR:OG1	2.10	0.52
45:Ca:146:LEU:HB2	70:Ci:6:PRO:HG3	1.92	0.52
46:CN:194:ARG:HG2	46:CN:194:ARG:NH2	2.25	0.52
47:CI:39:LYS:O	47:CI:195:CYS:SG	2.62	0.52
47:CI:41:ALA:CB	47:CI:139:ARG:NH2	2.67	0.52
47:CI:109:ASP:O	47:CI:110:ARG:CB	2.58	0.52
49:CQ:157:GLY:C	49:CQ:159:PRO:HD3	2.33	0.52
50:CR:96:MET:CE	85:A5:2667:C:OP1	2.57	0.52
52:CS:140:PRO:HG2	52:CS:141:ALA:H	1.69	0.52
54:CP:74:LYS:NZ	85:A5:4982:A:OP1	2.35	0.52
58:CW:4:GLU:HG2	58:CW:30:GLN:CD	2.33	0.52
59:CZ:26:VAL:CB	59:CZ:89:ILE:CD1	2.77	0.52
59:CZ:33:THR:OG1	59:CZ:36:ARG:HG3	2.09	0.52
59:CZ:81:MET:O	59:CZ:81:MET:HG3	2.10	0.52
63:CB:283:LYS:O	63:CB:333:LEU:HD12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:Cc:102:SER:O	65:Cc:105:ILE:HD12	2.10	0.52
70:Ci:58:MET:SD	70:Ci:61:LEU:CD1	2.98	0.52
71:Cj:82:THR:O	71:Cj:83:THR:C	2.51	0.52
72:Ck:49:ASP:HB3	72:Ck:52:LYS:HB2	1.90	0.52
74:CC:12:SER:HB2	74:CC:13:GLU:OE1	2.10	0.52
74:CC:56:GLU:CD	74:CC:56:GLU:C	2.78	0.52
74:CC:182:LYS:O	74:CC:183:VAL:C	2.53	0.52
81:CE:281:ILE:O	81:CE:281:ILE:CG2	2.58	0.52
82:CG:183:ILE:HG23	82:CG:184:ILE:O	2.08	0.52
82:CG:255:LYS:HE2	82:CG:259:LYS:HD2	1.85	0.52
85:A5:1827:C:H2'	85:A5:1827:C:O2	2.10	0.52
85:A5:3868:G:H22	85:A5:3900:G:H1'	1.74	0.52
1:Az:24:VAL:CG2	1:Az:32:LYS:HG3	2.39	0.52
1:Az:166:GLU:HG3	1:Az:167:LEU:H	1.73	0.52
1:Az:452:LEU:HD11	1:Az:461:ILE:CD1	2.39	0.52
1:Az:749:ILE:HD12	1:Az:759:ILE:HD12	1.88	0.52
2:Ag:143:GLN:OE1	2:Ag:144:ASP:CA	2.56	0.52
4:AK:2:LEU:HD23	36:B2:1315:U:H4'	1.91	0.52
5:AO:30:VAL:HG21	5:AO:32:HIS:NE2	2.23	0.52
5:AO:44:VAL:HG21	5:AO:93:LEU:HD11	1.85	0.52
6:AX:94:ILE:CD1	6:AX:125:VAL:HG21	2.40	0.52
7:AM:103:VAL:O	7:AM:103:VAL:HG12	2.09	0.52
8:AS:15:VAL:HG12	8:AS:16:LEU:N	2.20	0.52
8:AS:39:ARG:HH22	14:AT:38:LYS:CG	2.22	0.52
10:AN:22:VAL:CG2	10:AN:23:PRO:HA	2.40	0.52
10:AN:142:GLU:OE2	10:AN:144:SER:OG	2.18	0.52
11:AL:17:PHE:CD2	11:AL:18:GLN:O	2.63	0.52
11:AL:86:ILE:CG1	11:AL:111:VAL:HG13	2.39	0.52
12:AR:21:TYR:HA	12:AR:58:MET:HE1	1.92	0.52
15:AB:19:LYS:O	15:AB:19:LYS:HG3	2.09	0.52
15:AB:38:MET:HE1	15:AB:186:ASN:HD21	1.70	0.52
16:AA:24:HIS:HB3	16:AA:51:LEU:CD2	2.40	0.52
16:AA:190:SER:O	16:AA:191:ARG:CB	2.58	0.52
18:AY:50:THR:C	18:AY:51:THR:HG23	2.35	0.52
20:Aa:103:PRO:O	20:Aa:103:PRO:HD2	2.08	0.52
26:AJ:61:LEU:HD23	26:AJ:98:LEU:CD1	2.35	0.52
27:AE:100:ARG:HG2	27:AE:102:ILE:CD1	2.39	0.52
27:AE:122:LYS:HG2	27:AE:164:LEU:CD2	2.39	0.52
29:AG:155:GLN:HG2	36:B2:76:U:H4'	1.92	0.52
31:AH:99:ARG:HB2	36:B2:913:A:H8	1.75	0.52
33:AI:149:TYR:HD1	33:AI:152:ARG:NH1	2.05	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:155:ASN:CG	33:AI:156:ALA:HA	2.35	0.52
35:Ah:296:ILE:CA	35:Ah:298:ASN:ND2	2.72	0.52
38:Cz:41:TYR:OH	38:Cz:159:MET:HG3	2.09	0.52
38:Cz:98:LYS:H	38:Cz:99:LEU:HB2	1.74	0.52
39:Cq:26:LYS:HE3	39:Cq:94:ASP:HA	1.91	0.52
39:Cq:43:ILE:HA	39:Cq:46:SER:OG	2.10	0.52
39:Cq:81:HIS:NE2	39:Cq:191:GLN:CG	2.57	0.52
39:Cq:134:LYS:O	39:Cq:136:SER:N	2.42	0.52
39:Cq:174:LEU:HD12	39:Cq:174:LEU:C	2.34	0.52
39:Cq:187:LEU:HD12	39:Cq:187:LEU:C	2.35	0.52
39:Cq:199:TYR:CZ	39:Cq:204:LEU:HD13	2.45	0.52
39:Cq:246:LYS:O	39:Cq:249:LEU:HG	2.10	0.52
42:CL:86:ILE:HD11	42:CL:121:ARG:CD	2.40	0.52
42:CL:154:VAL:C	42:CL:155:MET:SD	2.92	0.52
49:CQ:93:GLN:O	49:CQ:94:GLU:CD	2.52	0.52
49:CQ:121:LEU:HD22	49:CQ:125:GLN:CD	2.31	0.52
50:CR:45:ILE:CA	50:CR:50:ILE:CG2	2.83	0.52
50:CR:102:LEU:HD13	50:CR:127:VAL:HG13	1.91	0.52
52:CS:47:PHE:CE1	52:CS:125:GLN:HG2	2.37	0.52
52:CS:113:MET:CG	52:CS:124:ILE:HD11	2.39	0.52
54:CP:124:LYS:HE2	54:CP:142:SER:CB	2.37	0.52
55:CU:60:VAL:O	55:CU:61:VAL:HG13	2.10	0.52
56:CX:87:MET:O	56:CX:91:GLU:HG2	2.09	0.52
60:Cr:90:LEU:CG	60:Cr:114:ALA:HB1	2.32	0.52
60:Cr:106:LEU:CB	60:Cr:109:ALA:HB3	2.40	0.52
61:Ch:7:ARG:HG2	61:Ch:8:ASP:H	1.74	0.52
63:CB:39:LYS:CD	63:CB:40:PRO:HD2	2.39	0.52
63:CB:40:PRO:HB3	63:CB:42:HIS:CD2	2.17	0.52
63:CB:155:LYS:HA	63:CB:155:LYS:CE	2.38	0.52
65:Cc:59:GLU:HG3	65:Cc:63:TYR:HE1	1.75	0.52
69:Cg:21:ARG:O	69:Cg:21:ARG:HG3	2.09	0.52
69:Cg:38:VAL:O	69:Cg:60:ARG:NE	2.43	0.52
73:Cl:2:SER:CB	73:Cl:5:LYS:CG	2.72	0.52
77:Cp:71:TYR:CD2	77:Cp:72:ASN:CG	2.88	0.52
79:CJ:26:VAL:CB	79:CJ:33:LEU:HD21	2.16	0.52
80:CH:26:ILE:HG22	80:CH:35:ARG:HE	1.74	0.52
81:CE:145:THR:O	81:CE:164:PHE:HD2	1.93	0.52
82:CG:70:LEU:C	82:CG:70:LEU:HD13	2.35	0.52
82:CG:98:LEU:HG	82:CG:215:LEU:HD21	1.82	0.52
82:CG:115:LEU:HD22	82:CG:119:GLU:OE1	2.10	0.52
83:Cs:42:PHE:N	83:Cs:44:PRO:HD3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Ct:40:GLU:OE1	83:Ct:43:TRP:HD1	1.84	0.52
85:A5:2325:C:H2'	85:A5:2325:C:O2	2.09	0.52
85:A5:2551:A:H61	85:A5:2766:A:H2'	1.72	0.52
85:A5:2640:G:O6	85:A5:2693:G:H2'	2.09	0.52
85:A5:4524:G:H2'	85:A5:4524:G:N3	2.25	0.52
85:A5:4950:U:H4'	85:A5:4951:G:OP2	2.09	0.52
85:A5:4981:G:N3	85:A5:4981:G:C5'	2.72	0.52
86:A7:118:C:C2	86:A7:119:U:C5	2.98	0.52
1:Az:21:ASN:HD21	1:Az:469:ILE:CD1	2.22	0.52
2:Ag:26:GLN:HB3	2:Ag:74:ASP:C	2.33	0.52
4:AK:83:LEU:HB3	4:AK:85:LEU:CG	2.31	0.52
6:AX:55:VAL:HG12	6:AX:57:VAL:HG23	1.92	0.52
10:AN:26:LEU:HD21	10:AN:66:VAL:HG22	1.91	0.52
10:AN:38:TYR:CG	10:AN:78:LYS:HD2	2.43	0.52
10:AN:141:TYR:CD2	10:AN:141:TYR:O	2.63	0.52
11:AL:157:LYS:O	11:AL:158:PHE:CG	2.61	0.52
14:AT:11:GLN:CD	36:B2:1542:C:H5''	2.35	0.52
14:AT:124:THR:HG23	14:AT:127:GLY:H	1.74	0.52
15:AB:66:VAL:CB	15:AB:87:ILE:HG22	2.25	0.52
18:AY:20:ARG:CD	18:AY:76:TYR:CZ	2.84	0.52
18:AY:88:LYS:HG3	18:AY:97:TYR:CZ	2.45	0.52
22:Ac:49:PRO:HG2	30:AF:144:LEU:HD23	1.90	0.52
26:AJ:50:LEU:HB2	26:AJ:102:ILE:CD1	2.40	0.52
30:AF:18:LYS:O	30:AF:46:ALA:HB1	2.08	0.52
30:AF:20:PHE:CD2	30:AF:23:TRP:HD1	2.27	0.52
32:AW:120:HIS:O	32:AW:120:HIS:CG	2.63	0.52
33:AI:141:ARG:HB3	33:AI:144:LYS:CG	2.40	0.52
35:Ah:296:ILE:HA	35:Ah:298:ASN:ND2	2.25	0.52
36:B2:1495:G:C2	36:B2:1496:U:H1'	2.44	0.52
38:Cz:23:ARG:HH22	38:Cz:206:ILE:HG23	1.75	0.52
39:Cq:29:ILE:CG2	39:Cq:86:VAL:HG11	2.38	0.52
39:Cq:113:ALA:HB2	39:Cq:169:ALA:HA	1.92	0.52
40:CK:117:ARG:HG2	40:CK:133:LEU:HD11	0.57	0.52
42:CL:59:VAL:HG12	42:CL:60:ARG:O	2.09	0.52
42:CL:65:ARG:NH1	45:Ca:69:PHE:CD1	2.77	0.52
43:CV:98:PHE:CE2	43:CV:122:ALA:HB2	2.44	0.52
43:CV:99:GLU:OE1	58:CW:24:THR:HG22	2.09	0.52
45:Ca:24:LYS:CE	45:Ca:26:ARG:NH2	2.73	0.52
46:CN:4:TYR:O	46:CN:46:ASP:OD2	2.27	0.52
47:CI:52:MET:HE2	47:CI:152:LEU:O	2.10	0.52
47:CI:91:LEU:CD2	47:CI:133:GLN:HE21	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:61:LEU:CD2	49:CQ:141:GLY:N	2.71	0.52
49:CQ:154:LYS:CB	49:CQ:155:ALA:C	2.55	0.52
52:CS:162:GLN:NE2	52:CS:166:ARG:HE	2.08	0.52
53:CT:7:LYS:NZ	53:CT:54:HIS:HA	2.25	0.52
56:CX:89:LYS:HG2	56:CX:95:THR:OG1	2.10	0.52
59:CZ:14:LEU:O	69:Cg:91:ILE:CD1	2.58	0.52
63:CB:246:ARG:CD	85:A5:4524:G:OP2	2.55	0.52
63:CB:297:LYS:CE	63:CB:297:LYS:H	2.23	0.52
66:Cd:21:VAL:O	66:Cd:22:THR:HG22	2.09	0.52
73:Cl:26:TRP:CZ2	73:Cl:27:ILE:CD1	2.90	0.52
74:CC:110:ARG:HD2	74:CC:113:ARG:CZ	2.39	0.52
78:Co:15:CYS:HG	78:Co:77:CYS:CB	2.23	0.52
80:CH:26:ILE:CG2	80:CH:35:ARG:HG2	2.33	0.52
81:CE:111:LYS:CB	81:CE:113:PRO:HG3	2.32	0.52
82:CG:150:LYS:HD2	82:CG:177:MET:HE1	1.91	0.52
82:CG:229:ARG:HG2	82:CG:229:ARG:O	2.10	0.52
83:Cs:31:LEU:HD11	84:Cu:30:VAL:HG22	1.91	0.52
85:A5:1273:G:H3'	85:A5:1274:A:C5'	2.40	0.52
1:Az:200:MET:HG2	1:Az:203:ILE:CG2	2.40	0.52
1:Az:228:PHE:HE2	1:Az:293:ILE:HG23	1.72	0.52
1:Az:536:CYS:O	1:Az:537:ILE:CG2	2.58	0.52
2:Ag:113:PHE:CE2	2:Ag:117:ASN:CA	2.93	0.52
4:AK:16:PHE:CE2	4:AK:80:ARG:N	2.78	0.52
4:AK:62:PHE:CD1	4:AK:67:PHE:CD2	2.96	0.52
5:AO:125:LYS:HE3	20:Aa:56:ALA:O	2.10	0.52
15:AB:55:THR:C	15:AB:56:LYS:HD2	2.31	0.52
15:AB:209:ASP:C	15:AB:210:VAL:HG23	2.34	0.52
16:AA:45:GLY:O	16:AA:46:ILE:HD13	2.10	0.52
16:AA:98:PRO:O	16:AA:98:PRO:HG2	2.10	0.52
23:AD:167:TYR:CE2	23:AD:204:LEU:CD2	2.92	0.52
23:AD:221:THR:CB	23:AD:222:PRO:CD	2.77	0.52
26:AJ:54:ARG:NH2	28:AC:200:ARG:O	2.43	0.52
27:AE:153:LEU:CD2	29:AG:216:ARG:CZ	2.81	0.52
29:AG:162:LEU:HD12	29:AG:162:LEU:C	2.34	0.52
29:AG:213:LEU:HD12	29:AG:213:LEU:C	2.34	0.52
30:AF:42:LYS:C	30:AF:45:TYR:H	2.16	0.52
31:AH:9:VAL:C	31:AH:11:PRO:HD2	2.32	0.52
31:AH:51:ILE:HD11	31:AH:176:VAL:HG22	1.91	0.52
33:AI:154:LYS:C	33:AI:154:LYS:NZ	2.68	0.52
34:AQ:137:ALA:HB3	36:B2:1649:U:H5''	1.92	0.52
36:B2:1659:U:H3	36:B2:1664:A:H2	1.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:12:ASN:CA	39:Cq:16:LYS:HE3	2.40	0.52
39:Cq:206:ILE:O	39:Cq:206:ILE:HG22	2.07	0.52
40:CK:1:MET:H3	40:CK:2:PRO:CD	2.19	0.52
40:CK:28:LEU:CD1	40:CK:29:ALA:H	2.22	0.52
40:CK:61:LYS:CD	40:CK:73:VAL:O	2.57	0.52
40:CK:102:GLY:O	40:CK:140:GLY:C	2.53	0.52
40:CK:131:GLU:O	40:CK:135:THR:CG2	2.38	0.52
41:CO:13:GLY:HA3	52:CS:171:ARG:HH21	1.74	0.52
41:CO:74:ARG:CG	41:CO:145:VAL:O	2.57	0.52
45:Ca:65:ARG:HH21	45:Ca:65:ARG:HG2	1.75	0.52
51:CA:8:GLN:HE21	51:CA:232:GLY:H	1.56	0.52
52:CS:9:GLU:CG	52:CS:33:PHE:CE2	2.93	0.52
53:CT:146:LYS:O	53:CT:147:GLU:CG	2.58	0.52
54:CP:148:MET:HE2	54:CP:150:LEU:HG	1.92	0.52
56:CX:79:PHE:CD2	56:CX:99:ILE:HB	2.45	0.52
56:CX:89:LYS:HZ2	56:CX:97:VAL:HG23	1.73	0.52
58:CW:116:LYS:O	58:CW:120:GLN:HG3	2.10	0.52
60:Cr:70:GLN:O	60:Cr:71:ARG:CG	2.43	0.52
60:Cr:71:ARG:HB3	60:Cr:79:ARG:CD	2.40	0.52
60:Cr:95:HIS:HB3	60:Cr:99:LYS:HE3	1.91	0.52
61:Ch:67:GLU:HA	61:Ch:70:ARG:CG	2.40	0.52
63:CB:83:PRO:O	63:CB:167:GLN:CD	2.52	0.52
63:CB:370:THR:O	63:CB:370:THR:HG22	2.10	0.52
64:CF:193:GLU:OE2	64:CF:200:ARG:CB	2.58	0.52
65:Cc:11:LEU:C	65:Cc:12:GLU:HG3	2.33	0.52
66:Cd:50:ARG:O	66:Cd:54:MET:HG2	2.10	0.52
67:Ce:6:PRO:CB	67:Ce:93:LYS:CE	2.82	0.52
73:Cl:23:ILE:HG13	73:Cl:38:ASN:N	2.25	0.52
81:CE:158:ARG:O	81:CE:158:ARG:HG2	2.10	0.52
83:Cs:15:ILE:HG12	84:Cu:5:ALA:CB	2.40	0.52
84:Cu:3:TYR:O	84:Cu:7:TYR:CE2	2.59	0.52
85:A5:100:C:H2'	85:A5:101:A:O4'	2.10	0.52
85:A5:1890:G:N2	85:A5:1939:A:H61	2.08	0.52
85:A5:2628:U:O5'	85:A5:2628:U:H6	1.93	0.52
85:A5:2640:G:H2'	85:A5:2641:A:C8	2.45	0.52
87:A8:127:U:O2'	87:A8:128:C:O4'	2.28	0.52
1:Az:113:SER:HB3	1:Az:533:MET:HA	1.92	0.51
1:Az:326:GLU:O	1:Az:327:ASP:C	2.51	0.51
1:Az:590:LEU:HD23	1:Az:605:LYS:CE	2.40	0.51
1:Az:779:THR:OG1	40:CK:31:LYS:HG2	2.10	0.51
5:AO:27:VAL:N	5:AO:91:THR:OG1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AO:119:LEU:HD12	5:AO:119:LEU:C	2.35	0.51
9:Ad:26:ASN:HD21	36:B2:1495:G:C2'	2.23	0.51
11:AL:1:MET:O	11:AL:2:ALA:CB	2.51	0.51
14:AT:143:LYS:CD	14:AT:143:LYS:C	2.53	0.51
16:AA:119:PRO:O	16:AA:142:LEU:HD21	2.10	0.51
18:AY:54:VAL:O	18:AY:76:TYR:N	2.42	0.51
19:AZ:44:LEU:HD13	19:AZ:45:ASN:CA	2.40	0.51
19:AZ:94:LYS:HZ3	19:AZ:95:GLY:H	1.56	0.51
21:Ab:2:PRO:O	21:Ab:3:LEU:C	2.52	0.51
21:Ab:32:PHE:C	21:Ab:81:ARG:O	2.54	0.51
27:AE:71:LYS:O	27:AE:90:ILE:HA	2.09	0.51
27:AE:127:ARG:HH22	36:B2:344:U:H5''	1.75	0.51
28:AC:83:LEU:CD2	28:AC:262:THR:HG21	2.40	0.51
28:AC:124:PHE:CD2	28:AC:147:VAL:CG2	2.93	0.51
30:AF:39:ILE:HG21	30:AF:113:VAL:HG23	1.92	0.51
30:AF:130:ARG:HB3	30:AF:135:ARG:H	1.74	0.51
31:AH:64:VAL:HG21	31:AH:72:PHE:CD2	2.45	0.51
31:AH:135:PHE:CB	31:AH:136:PRO:CD	2.88	0.51
33:AI:73:THR:O	33:AI:74:ARG:HD2	2.09	0.51
33:AI:191:GLU:CG	33:AI:192:GLY:H	2.23	0.51
34:AQ:115:TYR:CD2	34:AQ:115:TYR:C	2.88	0.51
34:AQ:130:LYS:HG2	36:B2:1669:G:H5'	1.92	0.51
36:B2:1220:A:C2	36:B2:1646:C:N4	2.77	0.51
38:Cz:111:LEU:HG	38:Cz:143:ASN:CG	2.34	0.51
38:Cz:117:ILE:HA	38:Cz:120:ILE:HG23	1.91	0.51
38:Cz:202:ARG:HA	38:Cz:202:ARG:NE	2.25	0.51
39:Cq:63:LYS:HD2	39:Cq:82:ILE:HD11	1.91	0.51
40:CK:1:MET:CA	40:CK:2:PRO:HB3	2.40	0.51
40:CK:123:ARG:NH1	40:CK:129:ILE:HD13	2.03	0.51
41:CO:192:TYR:N	41:CO:192:TYR:CD1	2.77	0.51
42:CL:136:LYS:HB3	61:Ch:117:ARG:NH1	2.25	0.51
44:CM:68:ALA:CA	44:CM:69:HIS:O	2.57	0.51
45:Ca:61:TYR:CE1	85:A5:294:G:C8	2.98	0.51
51:CA:66:PRO:C	51:CA:67:TYR:CG	2.89	0.51
51:CA:254:GLU:HA	51:CA:255:LYS:CB	2.40	0.51
53:CT:12:ARG:CG	53:CT:13:TYR:CD2	2.80	0.51
54:CP:88:ALA:HA	54:CP:91:LEU:HD21	1.91	0.51
55:CU:35:ASP:O	55:CU:35:ASP:CG	2.53	0.51
55:CU:40:GLU:HG2	55:CU:70:ILE:HG23	1.91	0.51
55:CU:60:VAL:C	55:CU:61:VAL:HG13	2.34	0.51
60:Cr:112:ARG:NH2	60:Cr:113:ARG:HD2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:4:ILE:O	61:Ch:4:ILE:HG23	2.08	0.51
62:Cb:22:LYS:H	62:Cb:22:LYS:HZ3	1.58	0.51
62:Cb:37:PRO:O	62:Cb:39:PHE:C	2.52	0.51
62:Cb:50:ASN:O	62:Cb:54:LEU:CA	2.59	0.51
65:Cc:12:GLU:CB	65:Cc:13:SER:OG	2.58	0.51
65:Cc:13:SER:CB	65:Cc:17:ARG:HH21	2.06	0.51
70:Ci:9:VAL:O	70:Ci:12:ASN:ND2	2.43	0.51
70:Ci:58:MET:SD	70:Ci:90:LEU:C	2.93	0.51
74:CC:5:ARG:HH22	74:CC:26:ALA:CA	2.23	0.51
74:CC:287:THR:C	74:CC:288:ASP:OD1	2.53	0.51
79:CJ:97:ASN:HD22	79:CJ:98:ASN:N	2.08	0.51
79:CJ:134:LEU:HD12	79:CJ:162:ALA:HB1	1.91	0.51
80:CH:41:ILE:C	80:CH:42:ASN:CG	2.78	0.51
80:CH:66:GLU:O	80:CH:69:THR:OG1	2.22	0.51
81:CE:232:ILE:C	81:CE:234:ASP:H	2.18	0.51
82:CG:62:ARG:HG2	82:CG:63:LEU:HD23	1.92	0.51
82:CG:73:ARG:HH22	82:CG:243:GLY:H	1.56	0.51
85:A5:1361:G:H2'	85:A5:1362:G:C8	2.45	0.51
85:A5:1621:A:H5'	85:A5:2450:G:H4'	1.91	0.51
87:A8:128:C:H2'	87:A8:129:C:H5'	1.92	0.51
1:Az:45:ILE:HD13	1:Az:78:PHE:CA	2.40	0.51
1:Az:72:SER:C	1:Az:104:ASP:CB	2.50	0.51
1:Az:516:ASP:O	1:Az:517:LEU:C	2.53	0.51
1:Az:700:VAL:HG12	1:Az:702:PHE:CD2	2.45	0.51
1:Az:756:VAL:O	1:Az:759:ILE:CG2	2.29	0.51
1:Az:759:ILE:HG21	1:Az:784:VAL:HG21	1.92	0.51
2:Ag:249:CYS:SG	2:Ag:256:ILE:HG23	2.51	0.51
3:AU:111:GLU:HG2	23:AD:10:LYS:HZ3	1.76	0.51
6:AX:6:GLY:O	11:AL:101:ARG:HD2	2.10	0.51
6:AX:10:ALA:CB	11:AL:101:ARG:C	2.59	0.51
6:AX:17:ARG:HH22	36:B2:659:G:H21	1.58	0.51
8:AS:123:LEU:CD1	13:AP:121:ILE:CG2	2.64	0.51
11:AL:112:HIS:CG	11:AL:134:LEU:HD11	2.45	0.51
11:AL:147:LYS:HZ3	11:AL:149:ALA:H	1.58	0.51
15:AB:36:PRO:CB	15:AB:231:LEU:CD2	2.71	0.51
16:AA:39:TYR:CD2	16:AA:40:LYS:HB2	2.46	0.51
16:AA:158:ASP:O	16:AA:158:ASP:CG	2.54	0.51
18:AY:20:ARG:C	18:AY:21:LYS:CD	2.82	0.51
18:AY:23:MET:CE	18:AY:44:LEU:HD21	2.40	0.51
18:AY:29:HIS:CE1	18:AY:68:LYS:H	1.83	0.51
18:AY:55:ILE:HG12	18:AY:75:ILE:HD11	1.81	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:87:PRO:CG	18:AY:90:ARG:HB2	2.39	0.51
20:Aa:60:ASP:O	20:Aa:61:ALA:CB	2.58	0.51
21:Ab:6:ASP:O	21:Ab:7:LEU:C	2.51	0.51
23:AD:4:GLN:C	23:AD:5:ILE:HG13	2.35	0.51
25:Af:95:ARG:CD	25:Af:96:LYS:H	2.19	0.51
27:AE:99:PHE:CZ	27:AE:113:ARG:CG	2.93	0.51
31:AH:37:LYS:NZ	31:AH:38:ALA:HA	2.24	0.51
31:AH:99:ARG:HB2	36:B2:913:A:C8	2.44	0.51
31:AH:135:PHE:CD2	31:AH:136:PRO:N	2.78	0.51
34:AQ:55:VAL:HG22	34:AQ:63:PHE:CE2	2.45	0.51
36:B2:1823:A:H1'	36:B2:1824:A:O5'	2.10	0.51
40:CK:104:ILE:HD12	40:CK:140:GLY:HA3	1.92	0.51
41:CO:41:ILE:HD13	41:CO:138:LEU:CD2	2.40	0.51
41:CO:193:THR:O	41:CO:194:GLU:C	2.53	0.51
42:CL:87:HIS:CE1	42:CL:90:VAL:CG2	2.92	0.51
45:Ca:75:LEU:HD23	45:Ca:78:LEU:HD22	1.92	0.51
46:CN:18:VAL:CG2	82:CG:79:ALA:HB3	2.41	0.51
48:CD:119:TYR:CE1	48:CD:135:ILE:CG1	2.93	0.51
48:CD:143:THR:HG22	48:CD:172:SER:HB3	1.92	0.51
49:CQ:25:LEU:O	49:CQ:29:VAL:HG23	2.09	0.51
50:CR:4:LEU:N	50:CR:4:LEU:HD23	2.25	0.51
50:CR:106:LEU:HD13	50:CR:106:LEU:N	2.25	0.51
51:CA:97:ASN:O	51:CA:98:ILE:C	2.51	0.51
52:CS:145:PHE:C	52:CS:147:ASP:N	2.39	0.51
52:CS:145:PHE:O	52:CS:147:ASP:O	2.27	0.51
53:CT:150:LEU:C	53:CT:151:LEU:HA	2.35	0.51
57:CY:62:TYR:CG	57:CY:66:GLN:HG3	2.45	0.51
57:CY:124:LYS:HA	57:CY:127:GLN:CD	2.35	0.51
59:CZ:90:PRO:CD	59:CZ:91:LEU:N	2.74	0.51
60:Cr:75:THR:OG1	74:CC:149:GLU:CA	2.57	0.51
62:Cb:39:PHE:CZ	85:A5:1824:G:O2'	2.63	0.51
63:CB:40:PRO:O	63:CB:41:VAL:CG1	2.56	0.51
63:CB:338:VAL:HG22	63:CB:339:GLY:N	2.26	0.51
64:CF:41:MET:CE	85:A5:2121:C:C4'	2.88	0.51
65:Cc:85:CYS:HB2	65:Cc:87:LYS:HB2	1.91	0.51
67:Ce:85:LEU:HD12	67:Ce:111:ILE:HG23	1.92	0.51
69:Cg:7:TYR:HE1	69:Cg:20:THR:HG22	1.71	0.51
70:Ci:40:VAL:O	70:Ci:43:MET:HG2	2.10	0.51
72:Ck:23:VAL:HB	72:Ck:64:LEU:HD21	1.91	0.51
74:CC:346:ASN:HB2	85:A5:723:A:H4'	1.93	0.51
77:Cp:34:HIS:CE1	85:A5:2737:C:OP1	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:90:TYR:CE1	80:CH:184:LYS:HE2	2.44	0.51
80:CH:106:GLN:CG	80:CH:107:GLU:CA	2.84	0.51
80:CH:118:LEU:HD21	80:CH:177:ASP:HB2	1.91	0.51
81:CE:43:HIS:C	81:CE:44:CYS:SG	2.94	0.51
81:CE:239:LYS:HG3	85:A5:4939:C:C6	2.45	0.51
82:CG:58:PRO:CG	82:CG:61:ILE:HD12	2.40	0.51
82:CG:160:ASP:O	82:CG:161:VAL:CG1	2.44	0.51
83:Ct:40:GLU:O	83:Ct:44:PRO:HD3	2.10	0.51
83:Ct:41:PRO:CA	83:Ct:44:PRO:HG3	2.40	0.51
84:Cv:7:TYR:CE1	84:Cv:42:VAL:HG11	2.29	0.51
85:A5:723:A:N1	85:A5:943:A:N1	2.59	0.51
85:A5:1290:G:N3	85:A5:4942:C:C5	2.78	0.51
1:Az:13:MET:HE1	1:Az:465:PRO:HD2	1.81	0.51
1:Az:255:ASP:OD1	1:Az:259:LYS:CE	2.46	0.51
8:AS:46:ARG:CD	14:AT:50:GLU:HG2	2.40	0.51
10:AN:84:LEU:HB2	10:AN:88:LEU:HD23	1.91	0.51
11:AL:44:PHE:CD2	11:AL:143:LEU:HD23	2.45	0.51
11:AL:156:GLN:OE1	11:AL:158:PHE:CZ	2.58	0.51
13:AP:29:SER:OG	13:AP:31:GLU:HB2	2.10	0.51
13:AP:51:ARG:O	13:AP:52:LYS:HB2	2.07	0.51
15:AB:36:PRO:HA	15:AB:231:LEU:HD23	1.92	0.51
25:Af:146:LEU:HD22	36:B2:1292:C:C5'	2.40	0.51
26:Aj:83:ARG:CZ	26:Aj:150:ARG:HH21	2.22	0.51
27:AE:148:ARG:NH2	29:AG:202:ASN:CG	2.68	0.51
28:AC:76:LYS:HA	28:AC:97:PHE:CE1	2.43	0.51
31:AH:65:PRO:HG2	31:AH:68:GLN:NE2	2.25	0.51
33:AI:62:VAL:CG2	33:AI:75:LYS:HZ1	2.22	0.51
33:AI:101:ILE:HD12	33:AI:190:LEU:HD11	1.92	0.51
36:B2:380:G:H8	36:B2:382:C:OP2	1.90	0.51
38:Cz:24:LYS:CB	38:Cz:172:VAL:HG21	2.39	0.51
38:Cz:59:PRO:CD	38:Cz:153:SER:HA	2.40	0.51
39:Cq:35:VAL:O	85:A5:1969:G:H4'	2.11	0.51
39:Cq:123:VAL:CG1	39:Cq:154:ILE:CD1	2.83	0.51
39:Cq:224:SER:O	39:Cq:228:GLN:HG3	2.10	0.51
39:Cq:228:GLN:HB2	84:Cu:54:VAL:HG11	1.92	0.51
39:Cq:245:TYR:OH	83:Ct:14:LEU:HD23	2.07	0.51
43:CV:93:GLY:HA2	63:CB:73:VAL:CG2	2.38	0.51
45:Ca:2:PRO:O	45:Ca:6:ARG:HG2	2.10	0.51
46:CN:79:ALA:C	46:CN:80:THR:OG1	2.53	0.51
46:CN:146:PRO:HA	46:CN:149:GLN:CG	2.41	0.51
47:CI:192:PRO:O	47:CI:193:ASP:OD1	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:206:LEU:HD13	47:CI:209:TRP:HE3	1.74	0.51
48:CD:64:ILE:HD11	48:CD:105:LEU:CD1	2.37	0.51
48:CD:188:LYS:O	48:CD:189:GLU:CD	2.54	0.51
48:CD:232:THR:CB	48:CD:233:PRO:CD	2.89	0.51
49:CQ:7:HIS:C	49:CQ:9:LYS:H	2.17	0.51
49:CQ:154:LYS:CA	49:CQ:155:ALA:CB	2.81	0.51
50:CR:15:LEU:HD21	50:CR:52:ARG:HD2	1.92	0.51
50:CR:52:ARG:O	50:CR:53:LYS:CB	2.54	0.51
50:CR:148:ASP:O	50:CR:152:LYS:HG2	2.10	0.51
50:CR:171:LYS:HA	50:CR:174:GLU:HB3	1.91	0.51
51:CA:118:GLU:N	51:CA:122:ASP:OD2	2.43	0.51
52:CS:15:ARG:HG3	52:CS:27:LEU:HD12	1.92	0.51
53:CT:158:PHE:CD1	53:CT:159:MET:N	2.78	0.51
57:CY:15:ARG:HH11	57:CY:15:ARG:CG	2.21	0.51
59:CZ:55:ALA:HB3	85:A5:4129:G:P	2.50	0.51
60:Cr:46:ARG:O	60:Cr:47:LYS:HB3	2.09	0.51
60:Cr:47:LYS:HA	60:Cr:66:ARG:CB	2.38	0.51
60:Cr:51:VAL:HG23	60:Cr:113:ARG:CG	2.40	0.51
60:Cr:72:LYS:H	60:Cr:73:PRO:C	2.18	0.51
61:Ch:84:ARG:O	61:Ch:86:LYS:N	2.43	0.51
63:CB:115:LYS:CE	63:CB:118:PHE:HB2	2.41	0.51
65:Cc:18:LEU:O	65:Cc:22:MET:HG2	2.10	0.51
65:Cc:58:SER:HA	65:Cc:61:GLU:CG	2.39	0.51
66:Cd:15:SER:O	66:Cd:16:ALA:HB2	2.09	0.51
69:Cg:3:GLN:NE2	69:Cg:29:ARG:CZ	2.73	0.51
70:CI:33:LEU:HD13	70:CI:34:THR:H	0.73	0.51
70:CI:68:ARG:NH2	70:CI:72:PHE:HE2	2.08	0.51
73:Cl:23:ILE:HG13	73:Cl:38:ASN:H	1.76	0.51
74:CC:232:VAL:HG11	74:CC:260:LEU:HD23	1.91	0.51
74:CC:274:LYS:O	74:CC:275:SER:O	2.28	0.51
78:Co:75:PRO:O	78:Co:75:PRO:HG2	2.10	0.51
82:CG:80:ILE:O	82:CG:81:ASN:HB2	2.09	0.51
82:CG:134:PRO:HG2	82:CG:134:PRO:O	2.09	0.51
83:Ct:22:THR:H	83:Ct:27:LYS:HZ3	1.56	0.51
84:Cv:7:TYR:HD1	84:Cv:18:PRO:HB2	1.75	0.51
85:A5:723:A:C2	85:A5:943:A:C2	2.98	0.51
85:A5:1371:A:N6	87:A8:28:C:O2'	2.43	0.51
85:A5:2670:C:O2'	85:A5:2671:C:H5'	2.11	0.51
85:A5:4548:A:OP2	85:A5:4549:G:H5''	2.10	0.51
1:Az:81:LEU:CB	1:Az:86:LEU:HD12	2.41	0.51
1:Az:322:LYS:HG3	1:Az:323:LEU:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:330:LYS:C	1:Az:331:GLU:CG	2.74	0.51
1:Az:525:LYS:O	1:Az:529:LYS:HG2	2.09	0.51
1:Az:775:GLN:CD	1:Az:782:PHE:CE2	2.89	0.51
2:Ag:49:GLU:O	2:Ag:50:THR:CB	2.57	0.51
4:AK:90:VAL:HG11	35:Ah:285:PRO:HA	1.92	0.51
5:AO:43:HIS:NE2	5:AO:45:THR:CG2	2.73	0.51
6:AX:138:LYS:N	6:AX:139:GLU:OE2	2.44	0.51
8:AS:64:VAL:HG23	8:AS:65:GLU:N	2.26	0.51
10:AN:82:PRO:O	10:AN:83:ASP:C	2.53	0.51
12:AR:95:ILE:N	12:AR:114:LEU:HD13	2.23	0.51
13:AP:12:PHE:CE1	79:CJ:88:LYS:HE2	2.46	0.51
14:AT:75:MET:O	14:AT:79:TYR:HD2	1.93	0.51
16:AA:30:LEU:O	16:AA:31:ASP:HB2	2.11	0.51
21:Ab:19:HIS:HB3	21:Ab:22:LYS:HG3	1.91	0.51
27:AE:29:PRO:O	27:AE:30:ARG:HB3	2.10	0.51
27:AE:130:PHE:O	27:AE:137:PRO:HA	2.10	0.51
27:AE:163:ASP:HB3	27:AE:167:GLY:O	2.09	0.51
27:AE:192:ILE:HD13	27:AE:238:LEU:HD22	1.91	0.51
28:AC:63:VAL:HG23	28:AC:90:GLU:OE2	2.11	0.51
29:AG:157:VAL:HG11	29:AG:159:ARG:N	2.09	0.51
30:AF:151:ILE:O	30:AF:154:LEU:HG	2.10	0.51
33:AI:79:ILE:HG23	33:AI:80:ASP:N	2.25	0.51
34:AQ:85:ARG:CD	34:AQ:119:LEU:CD2	2.72	0.51
35:Ah:291:ASP:CA	35:Ah:294:LYS:HG3	2.39	0.51
36:B2:1204:A:H61	36:B2:1694:U:H3	1.58	0.51
36:B2:1568:C:N4	36:B2:1569:A:C6	2.78	0.51
36:B2:1601:A:C5'	36:B2:1602:U:C6	2.94	0.51
39:Cq:255:THR:O	39:Cq:256:ASP:HB2	2.10	0.51
40:CK:142:ASN:CG	40:CK:143:VAL:H	2.13	0.51
41:CO:185:VAL:N	44:CM:126:GLU:OE2	2.42	0.51
42:CL:77:SER:OG	42:CL:104:ASN:ND2	2.43	0.51
45:Ca:47:LYS:HD3	45:Ca:48:TYR:CG	2.46	0.51
45:Ca:91:ALA:C	45:Ca:93:ASN:HA	2.34	0.51
48:CD:190:PHE:CE1	48:CD:195:HIS:HB2	2.44	0.51
49:CQ:33:ARG:HG3	49:CQ:48:LEU:HD11	1.90	0.51
49:CQ:77:ASN:HB2	49:CQ:78:LYS:CE	2.40	0.51
49:CQ:110:ARG:HG2	49:CQ:114:LEU:HD11	1.92	0.51
49:CQ:151:HIS:HE1	49:CQ:164:LYS:HD2	1.74	0.51
51:CA:184:ARG:HH22	77:Cp:14:TYR:HH	1.52	0.51
55:CU:49:VAL:N	55:CU:52:LYS:O	2.44	0.51
55:CU:60:VAL:C	55:CU:74:SER:HA	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:60:VAL:CG2	60:Cr:85:ASN:CG	2.84	0.51
61:Ch:92:ARG:NH1	87:A8:38:U:C5	2.79	0.51
63:CB:92:TYR:HB3	63:CB:99:LEU:CD1	2.40	0.51
63:CB:140:GLU:OE2	63:CB:144:LYS:HD2	1.96	0.51
63:CB:154:LYS:HE2	63:CB:155:LYS:HE3	1.91	0.51
64:CF:20:LYS:CE	64:CF:21:LYS:HD2	2.39	0.51
65:Cc:59:GLU:OE1	69:Cg:92:LYS:CE	2.55	0.51
66:Cd:25:TYR:CD1	66:Cd:56:GLU:CD	2.89	0.51
69:Cg:57:ARG:CZ	69:Cg:59:VAL:HG21	2.39	0.51
70:Ci:33:LEU:HD22	70:Ci:38:LYS:HG2	1.92	0.51
70:Ci:60:LEU:C	70:Ci:64:SER:OG	2.54	0.51
72:Ck:12:LEU:C	72:Ck:16:ARG:CZ	2.83	0.51
78:Co:2:VAL:HG23	78:Co:2:VAL:O	2.11	0.51
79:CJ:169:LYS:CD	79:CJ:170:TYR:CE2	2.88	0.51
80:CH:29:GLY:N	80:CH:84:VAL:HG21	2.25	0.51
81:CE:54:ILE:CG2	81:CE:55:GLY:N	2.51	0.51
81:CE:74:SER:HA	85:A5:981:C:H2'	1.91	0.51
82:CG:163:PRO:HB2	82:CG:166:LEU:CG	2.40	0.51
85:A5:4936:G:C2	85:A5:4938:A:N6	2.79	0.51
1:Az:170:GLU:CG	1:Az:171:PRO:HD2	2.40	0.51
1:Az:712:ASP:C	1:Az:713:ALA:CA	2.76	0.51
1:Az:732:SER:O	1:Az:735:THR:HG22	2.10	0.51
1:Az:745:TYR:CD1	1:Az:815:ASP:CG	2.83	0.51
2:Ag:141:THR:O	2:Ag:143:GLN:N	2.43	0.51
2:Ag:177:TRP:CE3	2:Ag:184:LEU:HA	2.46	0.51
4:AK:53:LYS:CB	4:AK:58:VAL:HG13	2.41	0.51
5:AO:63:LYS:O	5:AO:64:ALA:CB	2.57	0.51
5:AO:90:ILE:HG22	5:AO:124:MET:CE	2.41	0.51
6:AX:52:LEU:CG	6:AX:71:ARG:CB	2.88	0.51
6:AX:105:PHE:HE2	6:AX:119:ARG:N	2.06	0.51
7:AM:52:GLN:CG	7:AM:53:ALA:N	2.62	0.51
7:AM:124:ILE:O	7:AM:127:TYR:CE2	2.63	0.51
10:AN:38:TYR:CZ	10:AN:78:LYS:HG3	2.45	0.51
10:AN:141:TYR:CD2	10:AN:141:TYR:C	2.88	0.51
11:AL:40:ILE:HG23	11:AL:41:GLY:N	2.25	0.51
11:AL:152:LYS:C	11:AL:154:GLN:N	2.66	0.51
13:AP:39:ALA:O	13:AP:42:ARG:CG	2.56	0.51
14:AT:76:THR:HA	14:AT:95:GLY:O	2.10	0.51
14:AT:77:LYS:HG3	14:AT:92:PHE:HE2	0.72	0.51
15:AB:195:LYS:HE2	15:AB:195:LYS:CA	2.37	0.51
16:AA:6:ASP:O	16:AA:7:VAL:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:145:ILE:HG23	16:AA:159:ILE:HG21	1.92	0.51
16:AA:149:ASN:H	16:AA:165:ASN:HD21	1.57	0.51
17:AV:29:HIS:NE2	28:AC:87:PRO:HA	2.24	0.51
18:AY:29:HIS:CE1	18:AY:67:GLY:HA2	2.30	0.51
20:Aa:37:LYS:HG2	20:Aa:72:HIS:CE1	2.45	0.51
22:Ac:42:ILE:HG23	22:Ac:43:ILE:N	2.25	0.51
23:AD:51:LEU:HD12	23:AD:89:GLU:O	2.11	0.51
25:Af:103:LEU:HD21	25:Af:105:TYR:CB	2.39	0.51
26:AJ:72:PHE:CE1	27:AE:248:ILE:HD12	2.46	0.51
27:AE:181:CYS:SG	27:AE:225:ILE:CG2	2.99	0.51
28:AC:64:THR:HG23	28:AC:90:GLU:HG3	1.91	0.51
29:AG:211:LYS:O	29:AG:215:LYS:HG2	2.11	0.51
30:AF:79:HIS:O	30:AF:82:ASN:N	2.41	0.51
31:AH:32:MET:O	31:AH:33:ASN:HB2	2.09	0.51
31:AH:35:ASP:OD1	31:AH:35:ASP:C	2.50	0.51
33:AI:5:ARG:NH1	36:B2:384:U:H3	2.08	0.51
33:AI:140:LYS:O	33:AI:141:ARG:CB	2.56	0.51
35:Ah:290:LEU:C	35:Ah:294:LYS:HG3	2.32	0.51
36:B2:1410:C:H2'	36:B2:1411:G:C8	2.46	0.51
36:B2:1496:U:H2'	36:B2:1498:A:H8	1.74	0.51
38:Cz:65:VAL:HG21	38:Cz:147:LYS:HZ1	1.75	0.51
39:Cq:39:GLN:NE2	39:Cq:107:VAL:HG21	1.84	0.51
40:CK:111:ASN:HA	40:CK:114:ARG:CD	2.40	0.51
41:CO:177:LEU:CB	44:CM:130:LEU:HD21	2.27	0.51
42:CL:126:LEU:C	42:CL:127:PHE:CD1	2.81	0.51
42:CL:136:LYS:CD	42:CL:138:ASP:O	2.59	0.51
45:Ca:17:HIS:HD2	45:Ca:19:HIS:CD2	2.27	0.51
46:CN:53:TYR:CD1	46:CN:59:TYR:HB3	2.45	0.51
47:CI:102:MET:O	47:CI:103:LEU:O	2.29	0.51
47:CI:106:ALA:O	47:CI:108:ALA:HA	2.11	0.51
49:CQ:93:GLN:O	49:CQ:94:GLU:OE2	2.29	0.51
51:CA:32:VAL:HG21	51:CA:163:ARG:NH1	2.07	0.51
52:CS:19:THR:O	52:CS:21:LYS:CG	2.59	0.51
59:CZ:87:VAL:HG22	59:CZ:127:ASN:HD21	1.71	0.51
60:Cr:70:GLN:HB3	60:Cr:71:ARG:CZ	2.40	0.51
60:Cr:119:ARG:C	60:Cr:122:LYS:HG2	2.36	0.51
63:CB:81:THR:CB	63:CB:330:PHE:HA	2.40	0.51
67:Ce:6:PRO:HG3	67:Ce:93:LYS:HB2	1.76	0.51
70:CI:26:HIS:O	70:CI:27:SER:C	2.53	0.51
74:CC:46:LYS:CG	74:CC:49:ARG:NH1	2.74	0.51
74:CC:54:VAL:HG13	74:CC:55:SER:H	1.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:154:VAL:HG23	74:CC:251:ILE:HG23	1.92	0.51
74:CC:260:LEU:HD22	74:CC:264:TYR:CD2	2.46	0.51
77:Cp:18:TYR:O	77:Cp:22:LEU:HD12	2.10	0.51
80:CH:89:ARG:HB2	80:CH:187:VAL:HG22	1.93	0.51
81:CE:95:PRO:HB2	81:CE:104:THR:HB	1.92	0.51
81:CE:176:THR:HG21	81:CE:254:ASP:OD1	2.10	0.51
81:CE:219:LYS:HD3	81:CE:239:LYS:HE2	1.93	0.51
82:CG:31:LEU:CD2	82:CG:31:LEU:H	2.07	0.51
82:CG:80:ILE:O	82:CG:82:GLN:N	2.38	0.51
83:Ct:17:HIS:NE2	83:Ct:56:ILE:CD1	2.73	0.51
85:A5:4050:A:OP2	85:A5:4051:C:C5	2.64	0.51
1:Az:110:ASP:O	1:Az:501:VAL:HG21	2.11	0.51
1:Az:284:LYS:H	1:Az:284:LYS:HE2	1.76	0.51
1:Az:503:PRO:C	1:Az:505:VAL:N	2.56	0.51
1:Az:672:LEU:HD12	1:Az:675:ILE:CD1	2.33	0.51
1:Az:683:PHE:HE1	1:Az:702:PHE:CE2	2.29	0.51
2:Ag:15:ASN:O	2:Ag:305:ASN:ND2	2.43	0.51
2:Ag:70:VAL:HG22	2:Ag:71:ILE:N	2.25	0.51
2:Ag:184:LEU:HD12	2:Ag:184:LEU:C	2.36	0.51
5:AO:88:LEU:HD13	15:AB:25:PHE:CD1	2.45	0.51
6:AX:105:PHE:CB	6:AX:112:VAL:CG2	2.89	0.51
7:AM:52:GLN:O	7:AM:85:LEU:HD12	2.10	0.51
7:AM:72:HIS:O	7:AM:73:GLN:HB3	2.09	0.51
8:AS:40:TYR:O	8:AS:44:VAL:HG23	2.11	0.51
12:AR:31:ASN:ND2	12:AR:55:THR:CG2	2.74	0.51
12:AR:105:MET:CE	16:AA:48:ILE:HG22	2.39	0.51
16:AA:139:TYR:O	16:AA:140:VAL:HG23	2.11	0.51
17:AV:11:LEU:HD12	17:AV:12:TYR:CG	2.38	0.51
23:AD:24:PHE:HD2	23:AD:25:LEU:HD22	1.76	0.51
24:Ae:40:ARG:C	24:Ae:44:ASN:HB2	2.35	0.51
27:AE:87:MET:HE1	27:AE:236:ILE:CD1	2.40	0.51
27:AE:123:LEU:HD21	27:AE:235:TRP:HB2	1.92	0.51
27:AE:153:LEU:CD2	29:AG:216:ARG:HH12	2.20	0.51
27:AE:207:VAL:CG1	27:AE:219:ALA:HB1	2.41	0.51
28:AC:84:PHE:CE1	28:AC:264:SER:CA	2.94	0.51
28:AC:207:ALA:N	28:AC:210:PRO:HG2	2.25	0.51
28:AC:265:PRO:O	28:AC:269:PHE:HD2	1.93	0.51
29:AG:35:GLU:O	29:AG:36:VAL:CG2	2.58	0.51
29:AG:161:PRO:O	29:AG:161:PRO:CD	2.57	0.51
33:AI:148:LYS:HE2	33:AI:152:ARG:HH22	1.76	0.51
34:AQ:6:PRO:O	34:AQ:6:PRO:HD2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:124:PRO:HD2	34:AQ:125:ARG:H	1.75	0.51
36:B2:1414:A:C5	36:B2:1415:C:C5	2.99	0.51
36:B2:1462:U:H3'	36:B2:1463:U:C5'	2.39	0.51
36:B2:1473:G:H2'	36:B2:1474:A:H5''	1.93	0.51
36:B2:1593:C:H2'	36:B2:1594:A:C8	2.46	0.51
36:B2:1601:A:C5'	36:B2:1602:U:C5	2.94	0.51
38:Cz:26:ARG:CG	38:Cz:210:MET:HG3	2.41	0.51
39:Cq:235:ALA:CB	39:Cq:238:PRO:HG3	2.39	0.51
40:CK:46:ILE:CG2	40:CK:72:GLU:OE1	2.50	0.51
40:CK:103:ASN:CA	40:CK:140:GLY:HA2	2.40	0.51
41:CO:34:VAL:HG22	41:CO:103:LYS:HB2	1.92	0.51
41:CO:63:ASN:O	41:CO:63:ASN:OD1	2.29	0.51
42:CL:50:PRO:C	42:CL:151:THR:HG1	1.95	0.51
43:CV:110:GLY:HA3	43:CV:129:TRP:CE3	2.39	0.51
46:CN:155:VAL:O	46:CN:155:VAL:CG1	2.59	0.51
48:CD:19:LYS:HB2	48:CD:23:ARG:HG2	1.92	0.51
48:CD:40:ASP:OD1	48:CD:41:LYS:N	2.44	0.51
50:CR:70:ARG:HH21	50:CR:80:LYS:HZ3	1.57	0.51
52:CS:67:VAL:O	52:CS:67:VAL:HG13	2.11	0.51
52:CS:83:ARG:NH1	52:CS:125:GLN:NE2	2.58	0.51
53:CT:84:ILE:HD12	62:Cb:23:LYS:HA	1.93	0.51
54:CP:4:TYR:OH	54:CP:18:ARG:CB	2.58	0.51
54:CP:33:ALA:HB1	54:CP:117:ILE:HG12	1.92	0.51
54:CP:60:PHE:CE2	54:CP:82:ARG:CB	2.71	0.51
55:CU:40:GLU:CD	55:CU:64:GLU:O	2.53	0.51
59:CZ:100:VAL:C	59:CZ:106:LEU:HD23	2.36	0.51
61:Ch:27:GLU:HG2	61:Ch:50:VAL:HG21	1.93	0.51
61:Ch:47:ILE:CG2	61:Ch:48:ARG:N	2.66	0.51
63:CB:80:GLU:CD	63:CB:171:LEU:CD1	2.75	0.51
63:CB:114:CYS:HG	63:CB:118:PHE:HE2	1.59	0.51
64:CF:209:TRP:CD1	64:CF:210:PRO:CD	2.91	0.51
67:Ce:5:ARG:CD	67:Ce:93:LYS:CG	2.87	0.51
67:Ce:38:PRO:CB	67:Ce:43:ASN:HD21	2.24	0.51
68:Cf:42:TYR:CZ	81:CE:284:HIS:HA	2.45	0.51
72:Ck:23:VAL:HG21	72:Ck:64:LEU:CD2	2.34	0.51
72:Ck:26:LYS:HA	72:Ck:69:LEU:CD1	2.40	0.51
74:CC:7:LEU:O	74:CC:8:ILE:CG1	2.58	0.51
74:CC:253:THR:O	74:CC:256:ALA:N	2.43	0.51
74:CC:267:TRP:O	74:CC:269:LYS:N	2.44	0.51
74:CC:340:ILE:O	74:CC:343:GLN:HB2	2.10	0.51
82:CG:31:LEU:HD22	82:CG:31:LEU:N	2.15	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Cs:41:PRO:CA	83:Cs:44:PRO:HG2	2.38	0.51
85:A5:676:C:H2'	85:A5:677:G:H5'	1.92	0.51
1:Az:154:VAL:CB	1:Az:358:LEU:HD21	2.40	0.51
1:Az:207:PRO:CB	1:Az:261:TRP:CG	2.94	0.51
1:Az:231:MET:HE1	1:Az:343:TRP:CH2	2.46	0.51
1:Az:540:GLU:OE1	1:Az:540:GLU:O	2.29	0.51
1:Az:591:CYS:SG	1:Az:732:SER:CB	2.94	0.51
1:Az:693:CYS:SG	1:Az:695:GLU:HG2	2.51	0.51
2:Ag:48:ASP:OD2	2:Ag:49:GLU:OE1	2.29	0.51
2:Ag:76:GLN:O	2:Ag:77:PHE:CD1	2.64	0.51
5:AO:30:VAL:O	5:AO:44:VAL:HA	2.10	0.51
6:AX:69:CYS:HB3	6:AX:83:ALA:O	2.11	0.51
6:AX:77:ASN:O	6:AX:79:LYS:N	2.44	0.51
6:AX:122:VAL:CG1	6:AX:130:LEU:HD11	2.40	0.51
7:AM:124:ILE:HB	7:AM:127:TYR:HE2	1.75	0.51
8:AS:90:VAL:HG12	8:AS:91:LYS:N	2.25	0.51
10:AN:116:ILE:HA	10:AN:119:GLU:HG3	1.92	0.51
10:AN:132:LYS:HD2	10:AN:132:LYS:N	2.20	0.51
11:AL:1:MET:O	11:AL:2:ALA:O	2.29	0.51
11:AL:12:LYS:C	11:AL:56:ILE:HD11	2.36	0.51
11:AL:22:ARG:NH2	33:AI:158:ILE:O	2.43	0.51
11:AL:59:LYS:HB2	11:AL:112:HIS:CE1	2.46	0.51
11:AL:147:LYS:NZ	11:AL:156:GLN:NE2	2.59	0.51
12:AR:20:TYR:CE2	12:AR:38:ILE:CD1	2.92	0.51
13:AP:83:MET:HB3	13:AP:116:LEU:HD12	1.91	0.51
14:AT:87:VAL:CG1	14:AT:88:MET:HG3	2.37	0.51
15:AB:77:ASP:C	15:AB:79:VAL:HG22	2.34	0.51
17:AV:43:THR:O	17:AV:44:GLY:O	2.29	0.51
18:AY:53:ASP:O	18:AY:79:LEU:CD2	2.59	0.51
19:AZ:51:ASP:O	19:AZ:52:LYS:C	2.53	0.51
21:Ab:9:HIS:O	21:Ab:10:PRO:O	2.28	0.51
23:AD:117:ARG:HB2	35:Ah:186:ASP:OD1	2.11	0.51
26:AJ:125:HIS:HD2	26:AJ:129:LEU:HD11	1.64	0.51
26:AJ:155:LYS:HE3	26:AJ:156:HIS:NE2	2.26	0.51
27:AE:94:LYS:C	27:AE:95:THR:CG2	2.83	0.51
28:AC:70:VAL:CG1	28:AC:97:PHE:HE2	1.77	0.51
33:AI:142:SER:CA	33:AI:143:LYS:CB	2.71	0.51
35:Ah:152:SER:OG	35:Ah:154:ASP:O	2.29	0.51
40:CK:5:PHE:CZ	40:CK:37:LEU:HD21	2.45	0.51
44:CM:89:THR:O	44:CM:93:LYS:HG3	2.10	0.51
46:CN:184:ILE:N	46:CN:186:GLY:O	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:178:LYS:CG	48:CD:183:TYR:CZ	2.93	0.51
49:CQ:33:ARG:CZ	49:CQ:52:PHE:CZ	2.94	0.51
49:CQ:187:LYS:HE2	49:CQ:188:ASN:CA	2.40	0.51
50:CR:39:GLN:HG2	50:CR:40:GLN:N	2.24	0.51
51:CA:116:LEU:HD12	51:CA:116:LEU:C	2.35	0.51
51:CA:141:PRO:O	51:CA:144:LYS:HG2	2.11	0.51
51:CA:158:ILE:HG22	51:CA:159:SER:H	1.67	0.51
52:CS:71:SER:O	52:CS:76:LYS:NZ	2.37	0.51
53:CT:24:VAL:HG13	53:CT:25:VAL:H	1.58	0.51
53:CT:141:VAL:O	64:CF:80:ASN:HA	2.10	0.51
56:CX:39:LYS:CG	56:CX:40:ILE:N	2.71	0.51
56:CX:52:LEU:C	56:CX:52:LEU:HD22	2.35	0.51
56:CX:127:LEU:HD12	56:CX:127:LEU:C	2.35	0.51
57:CY:22:PRO:HD2	57:CY:25:ILE:CG1	2.41	0.51
58:CW:22:ALA:C	58:CW:23:ARG:O	2.38	0.51
58:CW:34:ALA:CA	58:CW:37:GLU:CG	2.65	0.51
58:CW:80:ARG:HD3	58:CW:81:ALA:N	2.14	0.51
59:CZ:92:ASP:N	59:CZ:117:LYS:NZ	2.54	0.51
63:CB:303:ALA:C	63:CB:312:LYS:HZ1	2.18	0.51
63:CB:331:VAL:HG23	63:CB:331:VAL:O	2.09	0.51
65:Cc:28:VAL:CG1	65:Cc:33:GLN:CB	2.84	0.51
67:Ce:96:CYS:SG	67:Ce:121:ARG:HB3	2.51	0.51
69:Cg:60:ARG:NH2	69:Cg:60:ARG:CG	2.43	0.51
74:CC:11:TYR:O	74:CC:155:GLU:CB	2.58	0.51
74:CC:22:VAL:CG1	74:CC:257:PHE:CD2	2.94	0.51
79:CJ:15:LEU:HD23	79:CJ:165:TRP:CG	2.45	0.51
79:CJ:128:LEU:HD12	79:CJ:128:LEU:C	2.36	0.51
81:CE:235:THR:HG22	81:CE:236:GLU:HG2	1.91	0.51
85:A5:2557:G:H1	85:A5:2570:U:H3	1.58	0.51
85:A5:4943:A:OP2	85:A5:4944:C:H5''	2.08	0.51
87:A8:103:A:OP2	87:A8:104:A:H2'	2.10	0.51
1:Az:137:VAL:HG23	1:Az:138:GLN:N	2.25	0.51
1:Az:189:ILE:HG22	1:Az:203:ILE:CG1	2.33	0.51
2:Ag:100:ARG:HH11	2:Ag:100:ARG:CB	2.24	0.51
2:Ag:156:PHE:CD2	2:Ag:156:PHE:C	2.88	0.51
2:Ag:234:ASP:CG	2:Ag:254:PRO:HG2	2.36	0.51
5:AO:143:LYS:CG	5:AO:144:GLY:N	2.64	0.51
16:AA:34:MET:HE1	16:AA:37:TYR:CD2	2.27	0.51
17:AV:18:SER:OG	17:AV:18:SER:O	2.29	0.51
21:Ab:64:CYS:HA	21:Ab:74:THR:HG23	1.92	0.51
25:Af:103:LEU:CD2	25:Af:105:TYR:C	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Af:105:TYR:O	25:Af:106:TYR:CG	2.60	0.51
27:AE:136:ILE:HG13	27:AE:149:TYR:CZ	2.46	0.51
29:AG:137:ARG:HG3	29:AG:140:ARG:CB	2.41	0.51
30:AF:42:LYS:HB3	30:AF:46:ALA:N	2.25	0.51
30:AF:45:TYR:O	30:AF:47:LYS:HD2	1.96	0.51
31:AH:15:LYS:O	31:AH:16:PRO:HB2	2.10	0.51
33:AI:148:LYS:HB2	33:AI:152:ARG:NH2	2.26	0.51
36:B2:71:G:H3'	36:B2:72:C:C5'	2.41	0.51
38:Cz:90:LEU:HD22	38:Cz:124:LEU:CD1	2.41	0.51
38:Cz:118:LYS:HG3	38:Cz:119:GLN:N	2.26	0.51
39:Cq:63:LYS:HG3	39:Cq:82:ILE:HD11	1.93	0.51
39:Cq:141:LEU:H	39:Cq:141:LEU:HD22	1.75	0.51
46:CN:65:ARG:HD3	46:CN:129:PHE:CE1	2.40	0.51
47:CI:26:VAL:CG1	47:CI:27:PRO:CD	2.86	0.51
47:CI:36:LEU:HD11	47:CI:69:ARG:HD2	1.92	0.51
47:CI:90:ARG:C	47:CI:91:LEU:HG	2.36	0.51
48:CD:27:LYS:CE	79:CJ:147:ARG:CZ	2.82	0.51
48:CD:41:LYS:CG	53:CT:93:ILE:CD1	2.79	0.51
48:CD:270:LYS:O	48:CD:271:MET:HB2	2.11	0.51
50:CR:101:ILE:HA	50:CR:104:ARG:HH11	1.75	0.51
52:CS:169:THR:C	52:CS:170:LYS:HG2	2.35	0.51
54:CP:30:ARG:CZ	54:CP:62:ARG:HH21	2.22	0.51
56:CX:153:ILE:HD11	61:Ch:33:VAL:CG2	2.40	0.51
57:CY:79:VAL:CG1	57:CY:80:ILE:N	2.73	0.51
60:Cr:112:ARG:HD3	67:Ce:90:MET:SD	2.51	0.51
63:CB:115:LYS:HE3	63:CB:129:ALA:HB2	1.92	0.51
64:CF:213:LEU:HB3	64:CF:247:MET:HB3	1.91	0.51
64:CF:236:ARG:O	64:CF:237:GLU:HB2	2.11	0.51
74:CC:32:ILE:CD1	74:CC:129:ALA:HB3	2.40	0.51
74:CC:156:ASP:C	74:CC:158:VAL:N	2.68	0.51
74:CC:296:PRO:CG	74:CC:297:GLU:OE1	2.57	0.51
78:Co:103:VAL:HG11	79:CJ:63:ARG:CB	2.40	0.51
80:CH:105:ILE:CG2	80:CH:112:VAL:N	2.70	0.51
81:CE:130:LYS:HD2	85:A5:1280:C:H41	1.76	0.51
81:CE:166:LYS:HG2	81:CE:167:GLN:H	1.76	0.51
82:CG:113:ARG:O	82:CG:113:ARG:CD	2.44	0.51
83:Cs:16:LEU:HD23	84:Cu:30:VAL:HG13	1.92	0.51
85:A5:1237:C:H2'	85:A5:1238:A:C8	2.46	0.51
85:A5:2471:G:C2	85:A5:2473:A:C1'	2.94	0.51
85:A5:2741:U:H4'	85:A5:2742:G:C4	2.45	0.51
85:A5:4092:G:H2'	85:A5:4093:G:H5''	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A7:38:U:C2	86:A7:40:U:OP2	2.64	0.51
1:Az:451:ILE:HD12	1:Az:458:VAL:CG1	2.40	0.51
1:Az:662:LEU:CG	1:Az:683:PHE:CD2	2.92	0.51
2:Ag:143:GLN:CG	2:Ag:144:ASP:CB	2.82	0.51
7:AM:67:ALA:C	25:Af:114:ILE:HG21	2.35	0.51
13:AP:83:MET:CE	13:AP:116:LEU:CD1	2.78	0.51
14:AT:38:LYS:O	14:AT:39:LEU:CB	2.58	0.51
15:AB:53:GLN:C	15:AB:55:THR:H	2.19	0.51
16:AA:16:LEU:CB	16:AA:17:LYS:CE	2.89	0.51
18:AY:119:GLY:CA	36:B2:85:A:H5'	2.41	0.51
19:AZ:94:LYS:CD	19:AZ:95:GLY:N	2.73	0.51
23:AD:115:VAL:HG21	35:Ah:177:ARG:CA	2.31	0.51
24:Ae:12:VAL:O	24:Ae:16:THR:CG2	2.41	0.51
26:AJ:63:LEU:O	26:AJ:70:ARG:NH1	2.44	0.51
27:AE:43:PRO:HD2	27:AE:46:ILE:HB	1.92	0.51
27:AE:146:THR:C	27:AE:147:ILE:HD13	2.35	0.51
27:AE:255:ARG:HH21	36:B2:844:U:H2'	1.75	0.51
28:AC:70:VAL:HG11	28:AC:97:PHE:CD2	2.44	0.51
28:AC:183:LYS:HE3	32:AW:95:PRO:CA	2.38	0.51
29:AG:145:PHE:C	29:AG:147:LEU:HD12	2.36	0.51
29:AG:147:LEU:HD21	29:AG:156:TYR:CD2	2.46	0.51
30:AF:44:LYS:CD	30:AF:44:LYS:C	2.79	0.51
31:AH:191:GLU:CD	31:AH:193:GLN:OE1	2.53	0.51
36:B2:1601:A:C4'	36:B2:1602:U:C5	2.94	0.51
36:B2:1747:C:H2'	36:B2:1748:G:O4'	2.11	0.51
38:Cz:143:ASN:CA	38:Cz:147:LYS:N	2.74	0.51
39:Cq:116:ILE:CG2	39:Cq:166:LYS:HD3	2.35	0.51
39:Cq:260:PRO:C	39:Cq:264:LYS:HB2	2.35	0.51
39:Cq:264:LYS:O	39:Cq:268:PHE:CE2	2.63	0.51
40:CK:2:PRO:CA	40:CK:2:PRO:HD2	2.33	0.51
41:CO:20:ALA:HB3	41:CO:87:MET:HE1	1.87	0.51
41:CO:80:PHE:O	41:CO:84:VAL:HG23	2.10	0.51
42:CL:125:ILE:O	42:CL:127:PHE:CE1	2.64	0.51
44:CM:70:GLN:CD	44:CM:70:GLN:N	2.69	0.51
44:CM:82:ILE:C	44:CM:83:ASN:CG	2.77	0.51
46:CN:149:GLN:HE21	46:CN:150:TRP:N	2.08	0.51
48:CD:41:LYS:NZ	53:CT:30:TYR:O	2.43	0.51
48:CD:111:ASN:HA	48:CD:116:ASP:HB2	1.92	0.51
49:CQ:24:TYR:OH	74:CC:32:ILE:N	2.32	0.51
52:CS:98:ARG:NE	52:CS:145:PHE:HB3	2.23	0.51
52:CS:161:ARG:N	52:CS:161:ARG:CD	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:4:TYR:CD1	54:CP:147:GLU:OE1	2.64	0.51
59:CZ:74:VAL:O	59:CZ:75:TYR:CD1	2.64	0.51
60:Cr:36:ASN:O	60:Cr:37:SER:CB	2.58	0.51
63:CB:292:LEU:HD22	63:CB:293:ILE:HG13	1.93	0.51
65:Cc:12:GLU:HB3	65:Cc:13:SER:CB	2.40	0.51
66:Cd:115:LYS:O	66:Cd:116:ASN:OD1	2.29	0.51
67:Ce:125:PRO:O	67:Ce:126:ASN:HB2	2.10	0.51
69:Cg:22:LEU:HD12	69:Cg:30:ILE:HG23	1.93	0.51
69:Cg:61:PRO:C	69:Cg:64:LEU:HD23	2.35	0.51
69:Cg:68:SER:C	69:Cg:72:LYS:HE2	2.36	0.51
70:Ci:70:LEU:HD12	70:Ci:71:LYS:CA	2.41	0.51
71:Cj:11:ARG:O	71:Cj:12:ARG:HG3	2.10	0.51
74:CC:325:MET:O	74:CC:325:MET:HE3	2.11	0.51
77:Cp:47:MET:HE3	77:Cp:56:HIS:C	2.31	0.51
78:Co:77:CYS:SG	78:Co:78:ARG:N	2.83	0.51
78:Co:103:VAL:HG11	79:CJ:63:ARG:CZ	2.40	0.51
80:CH:1:MET:O	80:CH:1:MET:HG2	2.10	0.51
80:CH:105:ILE:CG2	80:CH:111:LEU:C	2.72	0.51
81:CE:46:ARG:CZ	81:CE:47:ASN:CA	2.87	0.51
83:Ct:13:ALA:C	83:Ct:17:HIS:HD2	2.19	0.51
85:A5:656:C:H2'	85:A5:657:C:H6	1.75	0.51
85:A5:4941:G:H2'	85:A5:4942:C:O2	2.10	0.51
1:Az:146:ALA:HA	1:Az:151:ILE:HD12	1.93	0.51
1:Az:330:LYS:HB2	1:Az:330:LYS:HZ2	1.76	0.51
1:Az:558:LEU:O	1:Az:562:GLU:HG2	2.11	0.51
1:Az:579:TYR:HB2	1:Az:740:LEU:HD21	1.93	0.51
1:Az:751:CYS:SG	1:Az:756:VAL:HG23	2.50	0.51
2:Ag:284:PRO:HB2	2:Ag:303:THR:N	2.24	0.51
4:AK:41:PRO:O	4:AK:43:LEU:O	2.28	0.51
7:AM:61:TYR:HA	25:Af:104:LYS:HZ1	1.75	0.51
10:AN:22:VAL:CB	10:AN:23:PRO:CA	2.63	0.51
11:AL:17:PHE:CG	11:AL:18:GLN:N	2.79	0.51
12:AR:44:LYS:HG3	12:AR:47:ARG:NE	2.19	0.51
17:AV:11:LEU:HD12	17:AV:11:LEU:C	2.36	0.51
18:AY:36:PRO:CG	18:AY:39:GLU:HB2	2.36	0.51
21:Ab:36:LYS:CE	21:Ab:43:ILE:CD1	2.86	0.51
23:AD:113:LEU:HD12	23:AD:113:LEU:N	2.16	0.51
23:AD:123:LEU:O	23:AD:123:LEU:HD23	2.10	0.51
23:AD:212:GLU:CB	23:AD:213:PRO:CD	2.76	0.51
23:AD:214:LYS:C	23:AD:215:ASP:CG	2.79	0.51
24:Ae:52:LYS:HD2	24:Ae:52:LYS:N	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:40:LYS:O	26:AJ:41:ARG:C	2.53	0.51
26:AJ:78:LEU:HD11	26:AJ:93:LYS:HA	1.92	0.51
30:AF:38:TYR:N	30:AF:38:TYR:CD2	2.75	0.51
31:AH:50:GLU:CD	31:AH:58:LYS:HE2	2.36	0.51
31:AH:135:PHE:CD2	31:AH:136:PRO:CD	2.91	0.51
33:AI:43:ILE:HD12	36:B2:306:C:N4	2.26	0.51
33:AI:148:LYS:HE3	33:AI:152:ARG:HH21	1.76	0.51
34:AQ:12:VAL:HG21	34:AQ:91:ALA:HA	1.92	0.51
34:AQ:57:LEU:O	34:AQ:111:ILE:HG21	2.11	0.51
36:B2:304:C:H4'	36:B2:305:U:OP1	2.11	0.51
36:B2:1552:G:C6	36:B2:1578:U:C2	2.99	0.51
38:Cz:29:LEU:HD12	38:Cz:171:HIS:CB	2.41	0.51
38:Cz:102:LYS:O	38:Cz:102:LYS:HG3	2.10	0.51
42:CL:84:ALA:HB2	42:CL:117:LEU:HD13	1.93	0.51
46:CN:149:GLN:O	46:CN:151:ILE:N	2.44	0.51
46:CN:151:ILE:O	46:CN:151:ILE:CG2	2.59	0.51
46:CN:169:ARG:HB3	46:CN:169:ARG:CZ	2.40	0.51
49:CQ:69:LYS:HD2	49:CQ:69:LYS:N	2.20	0.51
49:CQ:152:PHE:O	49:CQ:153:GLY:C	2.53	0.51
50:CR:75:HIS:C	50:CR:76:MET:SD	2.94	0.51
52:CS:17:LEU:HG	52:CS:58:SER:C	2.36	0.51
52:CS:140:PRO:O	52:CS:142:VAL:N	2.44	0.51
53:CT:132:PRO:C	53:CT:134:PRO:HD3	2.36	0.51
55:CU:33:ILE:HD11	55:CU:96:LEU:CD2	2.41	0.51
56:CX:149:VAL:O	56:CX:153:ILE:HG23	2.11	0.51
63:CB:113:GLU:HG2	63:CB:176:LYS:O	2.11	0.51
63:CB:189:THR:HG21	63:CB:192:GLU:CG	2.41	0.51
64:CF:236:ARG:HB2	64:CF:239:GLN:HB2	1.93	0.51
66:Cd:77:ILE:HD11	85:A5:2370:A:N3	2.26	0.51
67:Ce:27:ARG:CG	67:Ce:28:TYR:CE2	2.91	0.51
79:CJ:57:VAL:HG12	79:CJ:60:PHE:HD2	1.76	0.51
80:CH:43:VAL:HG21	80:CH:73:ILE:HD13	1.93	0.51
81:CE:107:VAL:O	81:CE:108:LYS:NZ	2.37	0.51
84:Cu:3:TYR:CE2	84:Cu:38:ARG:HD3	2.47	0.51
1:Az:16:LYS:HA	1:Az:19:ILE:HD12	1.92	0.50
1:Az:26:ALA:HB3	1:Az:32:LYS:HB2	1.93	0.50
1:Az:160:MET:CE	1:Az:178:PHE:HZ	2.08	0.50
1:Az:264:ARG:HB3	1:Az:288:THR:HG21	1.91	0.50
1:Az:526:ARG:O	1:Az:529:LYS:CG	2.59	0.50
1:Az:580:ARG:HB2	1:Az:741:MET:SD	2.51	0.50
1:Az:739:ARG:HD3	1:Az:823:ASP:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:778:GLY:C	40:CK:31:LYS:HG3	2.35	0.50
2:Ag:30:MET:HE2	2:Ag:42:MET:CE	2.35	0.50
2:Ag:198:VAL:HG22	2:Ag:209:SER:CB	2.41	0.50
5:AO:16:SER:CA	5:AO:87:GLU:O	2.56	0.50
6:AX:134:TYR:HE1	24:Ae:13:ARG:HD3	1.75	0.50
7:AM:67:ALA:CB	25:Af:108:VAL:CG2	2.80	0.50
14:AT:4:VAL:HG21	14:AT:135:ALA:O	2.11	0.50
16:AA:52:LYS:NZ	16:AA:52:LYS:CB	2.61	0.50
16:AA:57:LYS:CE	17:AV:70:LEU:CD2	2.88	0.50
17:AV:5:ALA:O	17:AV:7:GLU:N	2.44	0.50
20:Aa:36:ILE:HD13	20:Aa:78:ALA:CB	2.41	0.50
24:Ae:21:LYS:O	24:Ae:22:GLN:N	2.37	0.50
26:AJ:42:GLU:OE1	26:AJ:42:GLU:HA	2.11	0.50
26:AJ:90:GLY:O	26:AJ:91:LYS:O	2.29	0.50
27:AE:121:TYR:HA	27:AE:163:ASP:O	2.11	0.50
27:AE:153:LEU:HD12	27:AE:172:PHE:CZ	2.36	0.50
29:AG:64:LYS:HD3	29:AG:65:GLN:O	2.10	0.50
29:AG:93:LYS:HG2	29:AG:95:LYS:HG3	1.92	0.50
29:AG:134:GLY:HA2	58:CW:82:ILE:CG2	2.41	0.50
31:AH:40:LEU:O	31:AH:41:ARG:C	2.54	0.50
34:AQ:42:ILE:HD11	34:AQ:51:LEU:HD13	1.91	0.50
36:B2:126:G:HO2'	36:B2:127:C:H5	1.57	0.50
38:Cz:29:LEU:HD21	38:Cz:173:LYS:N	2.26	0.50
39:Cq:25:PRO:HB3	39:Cq:92:LYS:HG3	1.92	0.50
39:Cq:160:LEU:HD13	39:Cq:175:LEU:HD21	1.87	0.50
40:CK:14:TYR:HE1	40:CK:16:ARG:HB3	1.75	0.50
40:CK:124:GLU:CB	40:CK:128:THR:HG21	2.41	0.50
41:CO:49:ARG:CG	41:CO:49:ARG:HH11	2.24	0.50
43:CV:109:LYS:HD3	43:CV:111:GLU:OE1	2.12	0.50
45:Ca:89:ASN:HB3	45:Ca:91:ALA:CB	2.38	0.50
45:Ca:97:ALA:HB2	45:Ca:121:PRO:HG2	1.93	0.50
46:CN:115:VAL:O	46:CN:159:ARG:CZ	2.49	0.50
47:CI:175:LYS:N	47:CI:176:PHE:CG	2.79	0.50
48:CD:167:VAL:HG22	48:CD:173:ILE:HB	1.92	0.50
49:CQ:25:LEU:HD12	49:CQ:28:LEU:CG	2.39	0.50
49:CQ:132:LYS:NZ	74:CC:301:ALA:CB	2.74	0.50
49:CQ:172:ARG:HA	49:CQ:176:ARG:CD	2.41	0.50
50:CR:106:LEU:N	50:CR:106:LEU:CD1	2.74	0.50
51:CA:245:ARG:HH12	51:CA:247:ARG:HG3	1.74	0.50
52:CS:82:LEU:HD21	52:CS:124:ILE:HG12	1.93	0.50
53:CT:34:TYR:CD2	53:CT:34:TYR:N	2.78	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CT:126:VAL:HG12	53:CT:127:GLN:N	2.19	0.50
57:CY:39:ARG:NH1	57:CY:45:ARG:NH2	2.59	0.50
59:CZ:90:PRO:CD	59:CZ:91:LEU:H	2.19	0.50
60:Cr:42:GLY:O	60:Cr:43:LEU:O	2.29	0.50
60:Cr:77:TYR:O	60:Cr:78:VAL:HG22	2.10	0.50
64:CF:137:GLU:CB	64:CF:138:PRO:HD3	2.40	0.50
65:Cc:22:MET:SD	65:Cc:27:TYR:CE2	3.03	0.50
65:Cc:26:LYS:NZ	65:Cc:42:LYS:HZ3	2.07	0.50
67:Ce:24:GLN:NE2	67:Ce:27:ARG:HG2	2.25	0.50
67:Ce:35:TRP:HE1	67:Ce:56:PRO:HG2	1.76	0.50
74:CC:38:ASN:O	74:CC:42:THR:HG23	2.11	0.50
74:CC:147:VAL:CG2	74:CC:175:LYS:CB	2.59	0.50
74:CC:231:ASN:OD1	74:CC:233:SER:N	2.41	0.50
74:CC:300:ARG:HD2	74:CC:301:ALA:N	2.25	0.50
78:Co:64:LYS:O	78:Co:65:LYS:C	2.53	0.50
79:CJ:144:LYS:O	79:CJ:148:THR:CG2	2.53	0.50
81:CE:27:VAL:HB	81:CE:28:LYS:HG3	1.92	0.50
83:Cs:7:LEU:N	84:Cu:12:LEU:CD2	2.74	0.50
83:Cs:17:HIS:NE2	83:Cs:23:VAL:CG2	2.61	0.50
85:A5:3799:A:C6	85:A5:3800:A:N1	2.79	0.50
85:A5:4751:G:C5	85:A5:4950:U:C5	2.98	0.50
1:Az:206:ASP:N	1:Az:211:THR:OG1	2.43	0.50
1:Az:228:PHE:CE1	1:Az:232:TYR:CZ	2.98	0.50
1:Az:275:LYS:HE2	1:Az:276:SER:N	2.27	0.50
1:Az:516:ASP:CG	1:Az:568:ILE:HG12	2.37	0.50
1:Az:592:LEU:HA	1:Az:602:LEU:O	2.11	0.50
1:Az:602:LEU:HD23	1:Az:602:LEU:C	2.36	0.50
1:Az:740:LEU:CB	1:Az:831:PRO:CB	2.56	0.50
2:Ag:64:HIS:O	2:Ag:65:PHE:C	2.54	0.50
2:Ag:113:PHE:HD1	2:Ag:120:ILE:HG12	1.76	0.50
4:AK:71:LEU:HG	4:AK:76:ILE:CD1	2.41	0.50
7:AM:51:VAL:HG13	7:AM:109:VAL:HG22	1.93	0.50
11:AL:12:LYS:CE	33:AI:194:GLU:CG	2.88	0.50
12:AR:13:ALA:HA	12:AR:54:VAL:HG21	1.89	0.50
16:AA:154:LEU:CD1	16:AA:154:LEU:O	2.44	0.50
16:AA:157:VAL:HG23	16:AA:157:VAL:O	2.12	0.50
17:AV:41:LYS:C	17:AV:43:THR:H	2.17	0.50
18:AY:17:LEU:HD13	27:AE:64:ILE:CG1	2.41	0.50
23:AD:3:VAL:O	23:AD:4:GLN:O	2.29	0.50
23:AD:97:CYS:C	23:AD:99:ILE:H	2.12	0.50
24:Ae:42:PHE:CZ	26:AJ:26:ASP:CB	2.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:67:ASP:O	26:AJ:68:PRO:C	2.53	0.50
26:AJ:180:LYS:CG	26:AJ:181:GLY:N	2.56	0.50
27:AE:67:GLN:O	27:AE:68:ARG:CB	2.59	0.50
29:AG:188:LYS:O	29:AG:191:ARG:HG2	2.10	0.50
30:AF:72:LEU:O	30:AF:72:LEU:HD23	2.10	0.50
31:AH:61:ILE:HD13	31:AH:176:VAL:HG11	1.92	0.50
31:AH:164:ASN:HA	31:AH:167:GLU:CG	2.39	0.50
34:AQ:17:LYS:CE	36:B2:1648:G:C6	2.93	0.50
35:Ah:162:ILE:HG22	35:Ah:168:LEU:HD23	1.93	0.50
36:B2:184:G:H2'	36:B2:185:G:O4'	2.10	0.50
36:B2:433:A:N1	36:B2:434:G:C6	2.79	0.50
39:Cq:126:GLN:HG3	39:Cq:127:ASN:H	1.76	0.50
39:Cq:197:SER:C	39:Cq:198:ILE:HG13	2.35	0.50
40:CK:34:PRO:CD	40:CK:35:LEU:N	2.74	0.50
41:CO:22:ILE:HD13	41:CO:120:VAL:CG1	2.41	0.50
41:CO:36:VAL:HG11	41:CO:108:ILE:HB	1.92	0.50
42:CL:51:ALA:C	42:CL:53:GLY:N	2.67	0.50
42:CL:55:ILE:HD11	42:CL:120:TYR:CD2	2.46	0.50
42:CL:179:PHE:CE2	42:CL:183:ARG:CG	2.94	0.50
44:CM:77:TRP:HA	44:CM:82:ILE:HD11	0.53	0.50
46:CN:91:GLN:NE2	46:CN:91:GLN:HA	2.25	0.50
47:CI:125:THR:C	47:CI:126:VAL:HG23	2.37	0.50
48:CD:44:TYR:OH	53:CT:67:VAL:CG2	2.30	0.50
48:CD:92:LEU:HD12	48:CD:92:LEU:C	2.35	0.50
50:CR:44:LEU:HD21	50:CR:49:LEU:HD13	1.93	0.50
51:CA:51:ASP:OD1	51:CA:52:PRO:HD3	2.11	0.50
51:CA:148:VAL:CG1	51:CA:149:LYS:N	2.74	0.50
51:CA:248:GLY:O	51:CA:250:LYS:HB3	2.11	0.50
53:CT:88:ARG:HD2	62:Cb:33:LYS:HD2	1.93	0.50
53:CT:152:GLU:O	53:CT:152:GLU:OE1	2.30	0.50
54:CP:27:LYS:CG	54:CP:63:TYR:CB	2.78	0.50
56:CX:69:ASN:O	56:CX:69:ASN:OD1	2.30	0.50
56:CX:76:ILE:O	56:CX:100:VAL:HG22	2.10	0.50
58:CW:21:TYR:CE2	58:CW:23:ARG:HB2	2.46	0.50
58:CW:109:ILE:CG2	58:CW:113:LYS:HE3	2.36	0.50
59:CZ:26:VAL:HG21	59:CZ:96:VAL:CG1	2.41	0.50
59:CZ:91:LEU:C	59:CZ:117:LYS:HE2	2.36	0.50
60:Cr:111:ILE:O	60:Cr:114:ALA:HB3	2.12	0.50
62:Cb:16:TRP:CD1	62:Cb:16:TRP:N	2.79	0.50
62:Cb:77:LYS:HB3	62:Cb:78:PRO:CD	2.40	0.50
63:CB:115:LYS:HE3	63:CB:129:ALA:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:153:MET:HE3	63:CB:160:ILE:HD13	1.79	0.50
63:CB:355:THR:O	63:CB:355:THR:HG22	2.10	0.50
65:Cc:48:LEU:HD21	65:Cc:60:ILE:CD1	2.42	0.50
65:Cc:59:GLU:O	65:Cc:63:TYR:CD1	2.64	0.50
66:Cd:25:TYR:CZ	66:Cd:56:GLU:CD	2.90	0.50
66:Cd:39:LYS:HE3	85:A5:2370:A:N7	2.27	0.50
68:Cf:21:GLN:N	68:Cf:21:GLN:OE1	2.44	0.50
68:Cf:33:VAL:HG21	68:Cf:82:GLY:C	2.35	0.50
69:Cg:22:LEU:HD21	69:Cg:32:TYR:CE1	2.28	0.50
73:Cl:3:SER:N	73:Cl:5:LYS:HE2	2.26	0.50
79:CJ:110:GLN:O	79:CJ:111:GLU:O	2.29	0.50
81:CE:38:LYS:HZ1	81:CE:39:LYS:HZ1	1.59	0.50
81:CE:174:LEU:HD11	81:CE:186:LEU:HD22	1.92	0.50
81:CE:208:ILE:O	81:CE:210:LYS:N	2.44	0.50
82:CG:218:LEU:O	82:CG:222:ILE:HG13	2.11	0.50
84:Cv:51:ILE:O	84:Cv:55:ILE:HG13	2.12	0.50
85:A5:463:A:H61	85:A5:692:A:N6	2.09	0.50
85:A5:2620:G:H1	85:A5:2636:U:H3	1.59	0.50
85:A5:4881:U:H3'	85:A5:4882:U:H5''	1.93	0.50
1:Az:147:ILE:HD11	1:Az:203:ILE:CD1	2.41	0.50
1:Az:193:GLY:HA3	1:Az:203:ILE:CD1	2.40	0.50
1:Az:343:TRP:CE3	1:Az:343:TRP:HA	2.46	0.50
1:Az:713:ALA:O	1:Az:716:ARG:N	2.44	0.50
2:Ag:83:TRP:C	2:Ag:85:GLY:H	2.19	0.50
2:Ag:144:ASP:O	2:Ag:144:ASP:OD2	2.29	0.50
4:AK:3:MET:SD	4:AK:8:ARG:NE	2.84	0.50
8:AS:28:PHE:CZ	36:B2:1603:G:C5	2.98	0.50
8:AS:88:LYS:O	8:AS:89:ASP:C	2.46	0.50
10:AN:19:ARG:NH2	21:Ab:84:HIS:OXT	2.44	0.50
11:AL:118:ARG:HD2	11:AL:119:ASP:N	2.20	0.50
13:AP:79:HIS:ND1	13:AP:102:PHE:CZ	2.74	0.50
15:AB:93:GLY:CA	15:AB:94:LYS:HD3	2.41	0.50
15:AB:175:GLU:HG2	15:AB:193:ILE:HD11	1.91	0.50
16:AA:70:ASN:HB2	16:AA:73:ASP:OD2	2.10	0.50
16:AA:154:LEU:CD1	17:AV:63:GLY:CA	2.85	0.50
17:AV:24:ILE:CD1	17:AV:25:GLY:C	2.84	0.50
17:AV:39:VAL:C	17:AV:41:LYS:H	2.18	0.50
18:AY:93:ARG:C	18:AY:93:ARG:CD	2.85	0.50
20:Aa:28:ARG:NH1	20:Aa:30:VAL:HG23	1.94	0.50
20:Aa:45:VAL:HB	20:Aa:53:ILE:HD12	1.93	0.50
20:Aa:88:SER:O	20:Aa:92:ARG:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:1:MET:O	23:AD:2:ALA:O	2.30	0.50
27:AE:180:LEU:CD1	27:AE:228:ILE:HG13	2.39	0.50
27:AE:212:ASP:OD2	27:AE:214:ASN:HB2	2.12	0.50
28:AC:268:GLU:HG3	28:AC:269:PHE:CE2	2.46	0.50
29:AG:176:ILE:HG21	29:AG:179:LEU:HB2	1.94	0.50
30:AF:162:ALA:CB	30:AF:169:ILE:HD13	2.40	0.50
31:AH:154:ILE:CG2	31:AH:185:VAL:CG2	2.89	0.50
33:AI:152:ARG:O	33:AI:153:LYS:CB	2.59	0.50
34:AQ:47:LEU:O	34:AQ:48:GLN:C	2.54	0.50
34:AQ:126:ARG:C	36:B2:1648:G:C8	2.89	0.50
41:CO:63:ASN:OD1	41:CO:63:ASN:C	2.54	0.50
42:CL:125:ILE:C	42:CL:127:PHE:HE1	2.19	0.50
45:Ca:97:ALA:HA	45:Ca:98:ALA:CB	2.38	0.50
46:CN:11:TRP:CZ2	46:CN:44:ARG:NH2	2.72	0.50
46:CN:36:LEU:HD23	46:CN:109:HIS:CG	2.46	0.50
46:CN:44:ARG:HG3	46:CN:119:TYR:HE1	1.52	0.50
46:CN:169:ARG:NH2	46:CN:169:ARG:CB	2.71	0.50
48:CD:58:ARG:NH1	48:CD:93:THR:CG2	2.73	0.50
48:CD:205:ALA:CA	48:CD:236:MET:SD	2.99	0.50
49:CQ:67:ILE:HG23	49:CQ:96:PRO:HD3	1.94	0.50
49:CQ:154:LYS:HB3	49:CQ:163:THR:CG2	2.40	0.50
50:CR:68:LEU:HD12	50:CR:69:ALA:H	1.66	0.50
50:CR:94:THR:CA	50:CR:97:ARG:HD2	2.41	0.50
50:CR:101:ILE:CA	50:CR:104:ARG:HD3	2.38	0.50
51:CA:22:HIS:O	51:CA:24:LYS:CE	2.59	0.50
51:CA:22:HIS:C	51:CA:52:PRO:HG3	2.35	0.50
52:CS:127:MET:O	52:CS:128:LYS:CG	2.58	0.50
54:CP:118:GLN:HG2	54:CP:147:GLU:HG2	1.92	0.50
58:CW:14:TYR:CE2	63:CB:380:GLN:NE2	2.78	0.50
59:CZ:136:PHE:CD2	59:CZ:136:PHE:N	2.78	0.50
60:Cr:7:TRP:O	60:Cr:11:ARG:HB3	2.09	0.50
60:Cr:30:ASN:ND2	60:Cr:48:THR:CB	2.73	0.50
60:Cr:60:VAL:HG22	60:Cr:85:ASN:CG	2.35	0.50
61:Ch:77:LYS:O	61:Ch:78:TYR:C	2.53	0.50
63:CB:46:PHE:CE2	63:CB:207:VAL:HG13	2.47	0.50
63:CB:141:ASP:C	63:CB:143:LYS:H	2.18	0.50
63:CB:291:TYR:HD1	63:CB:292:LEU:CA	2.25	0.50
63:CB:292:LEU:HA	63:CB:298:LEU:HB2	1.94	0.50
63:CB:361:GLU:CD	63:CB:362:LYS:H	2.10	0.50
64:CF:23:ARG:C	64:CF:23:ARG:CB	2.79	0.50
65:Cc:28:VAL:C	65:Cc:94:LEU:HD12	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:45:VAL:CG1	67:Ce:55:MET:HE2	2.33	0.50
68:Cf:22:ARG:C	68:Cf:24:HIS:N	2.69	0.50
68:Cf:24:HIS:CE1	85:A5:1902:G:H5''	2.45	0.50
69:Cg:78:TYR:O	69:Cg:81:SER:OG	2.28	0.50
73:Cl:36:ARG:O	73:Cl:37:TYR:HB2	2.12	0.50
74:CC:288:ASP:OD1	74:CC:288:ASP:N	2.43	0.50
77:Cp:14:TYR:CD1	77:Cp:18:TYR:HE2	2.30	0.50
78:Co:75:PRO:O	78:Co:76:ASN:O	2.29	0.50
79:CJ:87:LEU:HD21	79:CJ:166:PHE:HZ	1.56	0.50
79:CJ:110:GLN:O	79:CJ:111:GLU:HG2	2.10	0.50
81:CE:281:ILE:C	81:CE:281:ILE:CD1	2.84	0.50
83:Cs:7:LEU:N	84:Cu:12:LEU:HD22	2.26	0.50
85:A5:2471:G:C2	85:A5:2473:A:H1'	2.46	0.50
1:Az:154:VAL:HG22	1:Az:353:MET:SD	2.52	0.50
1:Az:430:MET:HE2	1:Az:486:THR:CB	2.41	0.50
1:Az:451:ILE:HD12	1:Az:458:VAL:HB	1.94	0.50
1:Az:563:GLU:C	1:Az:563:GLU:OE1	2.54	0.50
1:Az:693:CYS:O	1:Az:694:GLU:CB	2.59	0.50
2:Ag:140:TYR:CG	2:Ag:182:CYS:SG	2.98	0.50
5:AO:44:VAL:HG11	5:AO:93:LEU:CD2	2.41	0.50
5:AO:66:ARG:HG2	5:AO:67:ASP:N	2.27	0.50
5:AO:131:ASP:CG	20:Aa:67:LEU:HD22	2.34	0.50
6:AX:51:VAL:HG21	6:AX:94:ILE:CG2	2.41	0.50
6:AX:102:VAL:HG13	6:AX:120:PHE:HB3	1.91	0.50
7:AM:12:MET:HG3	7:AM:17:ALA:N	2.25	0.50
8:AS:88:LYS:HB3	13:AP:18:ARG:NH1	2.26	0.50
11:AL:10:TYR:HE1	33:AI:193:LYS:HG3	1.77	0.50
11:AL:152:LYS:O	11:AL:154:GLN:N	2.44	0.50
12:AR:96:ILE:HG21	16:AA:19:LEU:HD13	1.93	0.50
14:AT:84:ARG:O	14:AT:86:GLY:N	2.45	0.50
15:AB:72:ALA:N	15:AB:79:VAL:CG2	2.75	0.50
16:AA:44:ASP:OD1	16:AA:44:ASP:N	2.43	0.50
16:AA:111:GLN:NE2	16:AA:116:PHE:CZ	2.79	0.50
16:AA:149:ASN:N	16:AA:165:ASN:HD21	2.09	0.50
20:Aa:61:ALA:O	20:Aa:62:TYR:CB	2.58	0.50
23:AD:148:LYS:HZ2	35:Ah:177:ARG:CD	2.19	0.50
23:AD:162:ASP:OD1	23:AD:166:TYR:CE2	2.65	0.50
27:AE:126:VAL:HG21	27:AE:156:VAL:HA	1.91	0.50
27:AE:259:LYS:O	27:AE:260:GLN:OE1	2.30	0.50
29:AG:79:LYS:O	29:AG:81:HIS:CD2	2.64	0.50
30:AF:91:ARG:CD	34:AQ:46:THR:CG2	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:162:ALA:HB1	30:AF:169:ILE:HD13	1.92	0.50
31:AH:6:ALA:HA	31:AH:10:LYS:CG	2.34	0.50
36:B2:224:A:C2	36:B2:297:A:N6	2.79	0.50
36:B2:845:G:C2'	36:B2:846:G:C8	2.94	0.50
38:Cz:1:MET:N	38:Cz:212:LYS:HA	2.26	0.50
39:Cq:21:LEU:CB	39:Cq:66:ARG:HG2	2.39	0.50
39:Cq:93:GLU:O	39:Cq:94:ASP:OD1	2.30	0.50
40:CK:62:LEU:H	40:CK:75:PRO:HG3	1.75	0.50
42:CL:76:PHE:CE1	42:CL:117:LEU:HD21	2.46	0.50
43:CV:82:ILE:CG2	43:CV:121:VAL:CB	2.88	0.50
44:CM:86:TRP:HH2	44:CM:91:TRP:CD2	2.29	0.50
45:Ca:65:ARG:CZ	45:Ca:65:ARG:CB	2.77	0.50
45:Ca:77:LYS:O	45:Ca:78:LEU:HB3	2.10	0.50
45:Ca:116:LYS:O	45:Ca:117:LEU:O	2.29	0.50
46:CN:97:SER:O	46:CN:100:SER:OG	2.17	0.50
46:CN:180:PHE:O	46:CN:184:ILE:HD12	2.11	0.50
46:CN:192:TRP:CA	46:CN:195:ARG:HD2	2.25	0.50
47:CI:104:SER:HB2	47:CI:112:GLN:HG3	1.89	0.50
48:CD:42:ASN:O	48:CD:43:LYS:HD3	2.11	0.50
50:CR:180:LYS:HA	50:CR:183:GLU:HB2	1.93	0.50
51:CA:32:VAL:CG1	51:CA:163:ARG:HH12	2.24	0.50
51:CA:120:PRO:CG	51:CA:159:SER:OG	2.59	0.50
52:CS:146:HIS:O	52:CS:147:ASP:OD1	2.28	0.50
52:CS:159:LEU:CG	52:CS:160:ARG:N	2.74	0.50
56:CX:76:ILE:HD11	56:CX:104:ALA:HB3	1.87	0.50
58:CW:15:PRO:HG2	63:CB:367:PHE:CD2	2.47	0.50
58:CW:64:SER:O	58:CW:68:GLN:HG3	2.12	0.50
59:CZ:76:ASN:ND2	59:CZ:78:ASN:HD22	2.10	0.50
63:CB:142:GLY:CA	63:CB:147:GLU:CB	2.86	0.50
66:Cd:108:TYR:C	66:Cd:109:VAL:HA	2.35	0.50
67:Ce:3:ALA:CB	67:Ce:121:ARG:NH1	2.75	0.50
69:Cg:11:LEU:CD2	69:Cg:13:TYR:O	2.59	0.50
70:Ci:24:PRO:O	70:Ci:25:ARG:CD	2.60	0.50
74:CC:5:ARG:NH2	74:CC:26:ALA:HA	2.26	0.50
74:CC:12:SER:HA	74:CC:13:GLU:OE1	2.12	0.50
74:CC:283:LYS:HZ3	74:CC:283:LYS:HB3	1.77	0.50
77:Cp:49:ARG:HB3	77:Cp:55:TRP:CH2	2.46	0.50
78:Co:75:PRO:O	78:Co:76:ASN:CB	2.57	0.50
80:CH:106:GLN:CG	80:CH:107:GLU:N	2.73	0.50
80:CH:189:GLN:C	80:CH:191:ASP:N	2.69	0.50
81:CE:38:LYS:NZ	81:CE:39:LYS:NZ	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:111:LYS:HB2	81:CE:113:PRO:CG	2.40	0.50
81:CE:140:LEU:CD2	81:CE:167:GLN:OE1	2.59	0.50
82:CG:41:ILE:O	82:CG:43:GLN:OE1	2.29	0.50
82:CG:64:GLN:HE22	87:A8:149:G:H21	1.58	0.50
82:CG:77:PRO:CD	82:CG:237:TRP:HZ3	2.17	0.50
82:CG:157:ILE:CD1	82:CG:170:LEU:CB	2.89	0.50
85:A5:227:A:H2'	85:A5:228:C:O5'	2.11	0.50
85:A5:655:C:C3'	85:A5:656:C:H5''	2.41	0.50
85:A5:1370:G:H1'	85:A5:1372:A:H1'	1.94	0.50
85:A5:3965:A:H61	85:A5:4045:G:N2	2.10	0.50
1:Az:12:ILE:CG2	1:Az:99:LEU:HB2	2.41	0.50
1:Az:60:ARG:HG3	1:Az:70:ILE:HD12	1.93	0.50
1:Az:330:LYS:O	1:Az:335:LEU:HB2	2.11	0.50
1:Az:536:CYS:HA	1:Az:545:ILE:O	2.11	0.50
1:Az:746:LEU:CG	1:Az:785:LYS:CD	2.84	0.50
1:Az:759:ILE:HD12	1:Az:784:VAL:HB	1.88	0.50
1:Az:776:VAL:HG13	1:Az:777:ALA:N	2.26	0.50
2:Ag:83:TRP:HE3	12:AR:33:ARG:HH21	1.56	0.50
2:Ag:91:ASP:HB3	2:Ag:94:THR:OG1	2.11	0.50
2:Ag:276:SER:O	2:Ag:277:THR:O	2.30	0.50
2:Ag:280:LYS:O	2:Ag:281:ALA:O	2.30	0.50
3:AU:47:ASN:N	3:AU:47:ASN:ND2	2.59	0.50
5:AO:128:ARG:CG	20:Aa:62:TYR:OH	2.49	0.50
6:AX:11:ARG:NE	11:AL:103:GLU:OE1	2.45	0.50
6:AX:102:VAL:HG11	6:AX:120:PHE:HB3	1.91	0.50
7:AM:46:GLN:HB3	7:AM:112:LYS:HG2	1.93	0.50
11:AL:20:LYS:O	11:AL:21:LYS:CB	2.45	0.50
11:AL:92:TYR:CE2	11:AL:105:ARG:HB2	2.46	0.50
13:AP:93:MET:SD	13:AP:106:GLU:HA	2.52	0.50
17:AV:42:VAL:O	17:AV:43:THR:OG1	2.30	0.50
20:Aa:87:ARG:NH1	20:Aa:94:ASP:O	2.38	0.50
24:Ae:28:LYS:HE3	24:Ae:32:ALA:C	2.36	0.50
24:Ae:31:ARG:C	24:Ae:31:ARG:NE	2.70	0.50
25:Af:103:LEU:CD2	25:Af:105:TYR:CB	2.86	0.50
25:Af:135:HIS:C	25:Af:138:ARG:O	2.53	0.50
26:AJ:83:ARG:NH2	26:AJ:150:ARG:HH21	2.09	0.50
26:AJ:91:LYS:HA	26:AJ:96:TYR:CD2	2.45	0.50
26:AJ:122:SER:HG	26:AJ:124:HIS:HB2	1.73	0.50
27:AE:133:THR:O	27:AE:133:THR:OG1	2.30	0.50
27:AE:192:ILE:HD11	27:AE:238:LEU:HD22	1.93	0.50
32:AW:105:THR:O	32:AW:105:THR:HG23	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:76:GLU:HG2	38:Cz:144:MET:HB3	1.92	0.50
39:Cq:272:PRO:O	39:Cq:276:VAL:HG23	2.12	0.50
40:CK:58:ILE:C	40:CK:59:THR:HG23	2.36	0.50
41:CO:191:LYS:HB3	41:CO:192:TYR:HD1	1.76	0.50
44:CM:8:GLU:CD	44:CM:9:VAL:O	2.55	0.50
46:CN:66:VAL:CG1	46:CN:67:ARG:N	2.75	0.50
47:CI:106:ALA:O	47:CI:107:GLY:O	2.30	0.50
48:CD:99:TYR:CD2	48:CD:199:ILE:HG23	2.46	0.50
48:CD:119:TYR:CE1	48:CD:135:ILE:HD12	2.47	0.50
48:CD:163:LEU:O	48:CD:167:VAL:HG23	2.10	0.50
49:CQ:55:ARG:NH1	85:A5:1350:C:C5	2.80	0.50
49:CQ:76:GLU:O	49:CQ:77:ASN:CB	2.59	0.50
49:CQ:151:HIS:CE1	49:CQ:164:LYS:CD	2.94	0.50
52:CS:12:VAL:HG12	52:CS:13:VAL:N	2.26	0.50
54:CP:78:TRP:HD1	54:CP:80:GLN:O	1.94	0.50
57:CY:32:SER:OG	57:CY:106:ILE:CD1	2.60	0.50
58:CW:23:ARG:NH2	58:CW:29:PHE:HE2	2.09	0.50
58:CW:77:LYS:O	58:CW:78:PHE:CD2	2.63	0.50
58:CW:109:ILE:C	58:CW:110:ARG:CD	2.84	0.50
60:Cr:31:ASN:O	60:Cr:32:LEU:HB2	2.11	0.50
60:Cr:60:VAL:HG12	60:Cr:61:VAL:C	2.37	0.50
60:Cr:106:LEU:HD12	60:Cr:109:ALA:CB	2.42	0.50
60:Cr:121:GLN:C	60:Cr:123:PRO:HD3	2.35	0.50
61:Ch:73:TYR:C	61:Ch:79:LYS:CE	2.73	0.50
63:CB:27:GLY:HA2	63:CB:276:HIS:CD2	2.46	0.50
65:Cc:90:ARG:CZ	77:Cp:44:LYS:CG	2.90	0.50
74:CC:138:MET:CE	74:CC:145:GLU:OE2	2.55	0.50
74:CC:288:ASP:CG	74:CC:291:ARG:HB3	2.32	0.50
78:Co:75:PRO:C	78:Co:76:ASN:O	2.53	0.50
82:CG:206:GLN:O	82:CG:207:VAL:CB	2.59	0.50
85:A5:4940:C:P	85:A5:4941:G:OP1	2.70	0.50
1:Az:58:ASP:C	1:Az:63:GLU:CG	2.84	0.50
1:Az:512:LYS:CD	1:Az:569:PRO:HB3	2.14	0.50
1:Az:562:GLU:CB	1:Az:570:ILE:CG1	2.90	0.50
1:Az:568:ILE:O	1:Az:570:ILE:HD13	2.11	0.50
5:AO:92:ALA:HB2	5:AO:125:LYS:HB2	1.94	0.50
6:AX:5:ARG:HH22	36:B2:1159:G:P	2.35	0.50
7:AM:64:LEU:CG	25:Af:104:LYS:NZ	2.74	0.50
8:AS:39:ARG:HH21	14:AT:38:LYS:HZ1	0.56	0.50
8:AS:124:ARG:CD	8:AS:130:ARG:O	2.43	0.50
10:AN:18:TYR:C	10:AN:19:ARG:O	2.48	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:80:MET:HG3	11:AL:86:ILE:CG2	2.39	0.50
12:AR:122:PRO:HB3	12:AR:123:THR:HG23	1.57	0.50
14:AT:102:ARG:HH21	14:AT:105:GLN:CD	2.09	0.50
14:AT:130:ASP:OD2	14:AT:131:LEU:HD23	2.11	0.50
19:AZ:104:ARG:C	19:AZ:104:ARG:NH1	2.69	0.50
22:Ac:12:ALA:HB1	22:Ac:32:VAL:HB	1.93	0.50
23:AD:46:THR:HB	23:AD:84:VAL:HG23	1.93	0.50
28:AC:124:PHE:CD2	28:AC:147:VAL:HG22	2.47	0.50
29:AG:25:ARG:C	29:AG:27:PHE:N	2.69	0.50
29:AG:102:VAL:HG11	29:AG:109:LEU:HD11	1.94	0.50
30:AF:42:LYS:HB2	30:AF:44:LYS:C	2.20	0.50
31:AH:73:GLN:HE21	31:AH:135:PHE:HE1	1.59	0.50
32:AW:65:LEU:HD12	32:AW:65:LEU:C	2.35	0.50
39:Cq:28:PHE:CE2	39:Cq:98:ILE:HD12	2.44	0.50
39:Cq:34:ASN:OD1	39:Cq:34:ASN:O	2.30	0.50
39:Cq:135:THR:HG23	39:Cq:152:ILE:HD11	1.94	0.50
39:Cq:215:PHE:CZ	83:Cs:14:LEU:CD2	2.89	0.50
40:CK:10:ILE:HG23	40:CK:65:GLN:C	2.28	0.50
40:CK:97:ASN:OD1	40:CK:98:ILE:CG1	2.55	0.50
41:CO:158:GLU:O	41:CO:158:GLU:OE1	2.30	0.50
42:CL:66:TYR:O	42:CL:67:HIS:C	2.55	0.50
43:CV:87:SER:HB3	58:CW:19:ARG:HH11	1.76	0.50
44:CM:25:VAL:HG11	44:CM:39:ASP:N	2.27	0.50
45:Ca:84:GLU:CA	45:Ca:87:ARG:CD	2.85	0.50
46:CN:4:TYR:HA	46:CN:46:ASP:CG	2.37	0.50
46:CN:41:ARG:CA	46:CN:61:ILE:CD1	2.90	0.50
46:CN:64:ILE:HD12	46:CN:102:ALA:HA	1.79	0.50
47:CI:169:LYS:N	47:CI:169:LYS:HD3	2.25	0.50
51:CA:8:GLN:NE2	51:CA:232:GLY:H	2.10	0.50
51:CA:64:ARG:O	51:CA:66:PRO:HD3	2.11	0.50
51:CA:188:LYS:CG	51:CA:189:TYR:N	2.74	0.50
52:CS:17:LEU:CB	52:CS:18:PRO:HD2	2.41	0.50
52:CS:26:PRO:O	52:CS:27:LEU:O	2.30	0.50
52:CS:83:ARG:NH2	53:CT:156:TYR:HB2	2.27	0.50
54:CP:67:VAL:CG1	54:CP:68:GLY:N	2.73	0.50
54:CP:75:GLN:HB3	54:CP:76:TRP:CE3	2.46	0.50
58:CW:17:HIS:O	58:CW:18:GLY:O	2.30	0.50
58:CW:99:GLU:O	58:CW:101:ARG:N	2.44	0.50
58:CW:101:ARG:O	58:CW:105:ARG:HG3	2.11	0.50
60:Cr:77:TYR:O	60:Cr:78:VAL:CG2	2.59	0.50
60:Cr:86:ALA:CB	60:Cr:93:ILE:CG1	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:132:ARG:CB	60:Cr:133:PRO:HD3	2.41	0.50
63:CB:2:SER:O	63:CB:3:HIS:HB3	2.12	0.50
63:CB:115:LYS:CE	63:CB:129:ALA:HB3	2.40	0.50
66:Cd:36:VAL:HG11	66:Cd:44:ARG:HD2	1.92	0.50
68:Cf:32:GLY:CA	68:Cf:34:TYR:CD1	2.95	0.50
72:Ck:17:ARG:NH2	72:Ck:38:CYS:SG	2.85	0.50
74:CC:31:PRO:O	74:CC:31:PRO:CD	2.59	0.50
74:CC:33:ARG:NH1	74:CC:36:ILE:HD11	2.25	0.50
74:CC:43:ASN:HD21	85:A5:1508:A:H4'	1.76	0.50
74:CC:148:PRO:HG2	74:CC:149:GLU:H	1.76	0.50
74:CC:307:LYS:C	74:CC:310:HIS:HE1	2.18	0.50
74:CC:336:ARG:HA	74:CC:339:THR:OG1	2.11	0.50
75:Cm:95:ILE:HD12	75:Cm:124:LYS:HA	1.94	0.50
75:Cm:104:HIS:CE1	85:A5:4697:U:O3'	2.64	0.50
79:CJ:14:GLU:O	79:CJ:15:LEU:CB	2.58	0.50
80:CH:34:LEU:CD1	80:CH:150:ASP:CG	2.81	0.50
81:CE:53:GLY:CA	81:CE:63:TYR:CG	2.84	0.50
82:CG:174:CYS:HB3	82:CG:179:VAL:CG1	2.37	0.50
1:Az:51:ALA:C	1:Az:53:GLU:H	2.19	0.50
1:Az:516:ASP:CG	1:Az:568:ILE:CG2	2.84	0.50
1:Az:517:LEU:HD22	6:AX:50:ILE:HG21	1.94	0.50
1:Az:752:PRO:HB2	1:Az:754:GLN:OE1	2.11	0.50
2:Ag:142:VAL:CG1	2:Ag:177:TRP:CZ3	2.95	0.50
4:AK:16:PHE:HE2	4:AK:79:LEU:C	2.16	0.50
5:AO:19:PRO:HB3	15:AB:30:TRP:CE3	2.46	0.50
6:AX:52:LEU:HG	6:AX:71:ARG:C	2.37	0.50
8:AS:90:VAL:CG1	8:AS:91:LYS:HE3	2.41	0.50
8:AS:136:THR:CB	36:B2:1521:C:OP2	2.59	0.50
11:AL:2:ALA:O	11:AL:3:ASP:C	2.54	0.50
11:AL:17:PHE:CD1	11:AL:18:GLN:CA	2.94	0.50
11:AL:49:GLU:OE1	11:AL:49:GLU:HA	2.11	0.50
11:AL:59:LYS:CD	11:AL:112:HIS:CD2	2.90	0.50
12:AR:32:LYS:CE	12:AR:33:ARG:HE	2.19	0.50
12:AR:123:THR:CG2	16:AA:44:ASP:N	2.73	0.50
13:AP:14:LYS:C	13:AP:22:LEU:HD23	2.37	0.50
14:AT:84:ARG:C	14:AT:86:GLY:N	2.67	0.50
14:AT:101:ARG:CG	14:AT:105:GLN:NE2	2.75	0.50
15:AB:38:MET:HE1	15:AB:186:ASN:ND2	2.26	0.50
16:AA:98:PRO:C	16:AA:99:ILE:HG13	2.36	0.50
16:AA:179:ALA:O	16:AA:183:LEU:HG	2.12	0.50
18:AY:98:GLU:O	18:AY:98:GLU:OE1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:70:THR:N	23:AD:86:LEU:HD22	2.27	0.50
23:AD:74:GLN:NE2	23:AD:75:LYS:HD3	2.22	0.50
25:Af:108:VAL:HG22	25:Af:114:ILE:HA	1.94	0.50
26:AJ:110:LEU:CD1	26:AJ:135:ILE:HD12	2.42	0.50
27:AE:51:ARG:HG2	27:AE:111:VAL:CG2	2.42	0.50
28:AC:144:SER:HB2	28:AC:149:THR:HG23	1.92	0.50
30:AF:128:ILE:O	30:AF:129:GLY:C	2.55	0.50
31:AH:9:VAL:O	31:AH:45:ILE:HG13	2.12	0.50
31:AH:163:GLN:O	31:AH:164:ASN:C	2.54	0.50
33:AI:31:ARG:HG3	33:AI:31:ARG:HH11	1.76	0.50
36:B2:420:G:C5	36:B2:421:G:H1'	2.46	0.50
39:Cq:57:LYS:N	39:Cq:60:MET:HG2	2.26	0.50
39:Cq:81:HIS:NE2	39:Cq:191:GLN:CD	2.70	0.50
41:CO:74:ARG:O	41:CO:147:TRP:HB2	2.12	0.50
41:CO:124:LEU:CD2	52:CS:172:PRO:CD	2.90	0.50
42:CL:142:GLU:O	42:CL:143:GLU:C	2.55	0.50
45:Ca:77:LYS:O	45:Ca:79:TRP:N	2.42	0.50
47:CI:170:LYS:HD3	47:CI:170:LYS:N	2.27	0.50
47:CI:175:LYS:O	47:CI:176:PHE:O	2.29	0.50
48:CD:99:TYR:HE1	48:CD:164:LYS:HG3	1.77	0.50
49:CQ:67:ILE:CD1	49:CQ:96:PRO:CD	2.89	0.50
50:CR:81:ARG:CG	50:CR:88:ARG:CZ	2.89	0.50
50:CR:175:GLU:OE2	50:CR:179:ALA:CB	2.58	0.50
51:CA:241:ARG:HG3	51:CA:242:ARG:H	1.76	0.50
52:CS:98:ARG:HH11	52:CS:145:PHE:CB	2.13	0.50
55:CU:83:LEU:O	55:CU:87:THR:HG23	2.11	0.50
58:CW:76:VAL:O	58:CW:77:LYS:CB	2.60	0.50
58:CW:106:GLU:CG	58:CW:110:ARG:HH11	1.78	0.50
60:Cr:67:ARG:HG3	60:Cr:82:ILE:HD11	1.93	0.50
60:Cr:94:ARG:HE	60:Cr:98:ARG:HH21	1.59	0.50
61:Ch:6:ALA:H	61:Ch:56:ARG:NH2	2.05	0.50
62:Cb:57:MET:O	62:Cb:57:MET:SD	2.70	0.50
63:CB:383:GLU:OE1	63:CB:383:GLU:O	2.29	0.50
65:Cc:74:TYR:CE2	65:Cc:80:GLU:HB3	2.45	0.50
66:Cd:97:ASP:O	66:Cd:98:SER:O	2.30	0.50
67:Ce:16:ARG:CG	67:Ce:18:LYS:H	2.24	0.50
68:Cf:93:PRO:O	68:Cf:94:ALA:HB3	2.12	0.50
69:Cg:41:ALA:O	69:Cg:52:ARG:NH1	2.44	0.50
69:Cg:75:SER:C	69:Cg:76:ARG:O	2.54	0.50
69:Cg:111:ALA:HA	69:Cg:114:GLN:HB2	1.93	0.50
74:CC:158:VAL:O	74:CC:161:TYR:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:29:ILE:HG23	77:Cp:69:TRP:CB	2.42	0.50
80:CH:106:GLN:C	80:CH:107:GLU:CG	2.85	0.50
85:A5:315:G:OP2	85:A5:4355:G:P	2.69	0.50
1:Az:32:LYS:O	1:Az:36:THR:HG23	2.12	0.50
1:Az:205:ILE:O	1:Az:206:ASP:OD2	2.30	0.50
1:Az:430:MET:CE	1:Az:486:THR:OG1	2.57	0.50
1:Az:665:ILE:HG22	1:Az:665:ILE:O	2.11	0.50
1:Az:845:LYS:HE3	1:Az:846:GLU:CB	2.42	0.50
1:Az:845:LYS:CE	1:Az:846:GLU:CB	2.90	0.50
2:Ag:15:ASN:O	2:Ag:305:ASN:OD1	2.30	0.50
2:Ag:20:GLN:HE21	2:Ag:68:ASP:CA	2.24	0.50
2:Ag:36:ARG:C	2:Ag:38:LYS:N	2.69	0.50
2:Ag:251:ALA:HB1	2:Ag:286:CYS:O	2.12	0.50
4:AK:60:GLU:HG2	4:AK:69:TRP:CD1	2.46	0.50
5:AO:55:ARG:O	5:AO:81:VAL:HG22	2.12	0.50
7:AM:36:ARG:HD3	36:B2:1312:G:O6	2.12	0.50
7:AM:83:LYS:HG3	7:AM:103:VAL:HG12	1.94	0.50
11:AL:8:ARG:HA	33:AI:201:LYS:CE	2.42	0.50
11:AL:113:LEU:HD12	11:AL:120:VAL:HG11	1.93	0.50
12:AR:17:ILE:O	12:AR:71:ILE:HD11	2.11	0.50
15:AB:53:GLN:CG	15:AB:56:LYS:HB2	2.41	0.50
15:AB:99:ASN:HD22	15:AB:228:LEU:HD23	1.76	0.50
16:AA:98:PRO:O	16:AA:99:ILE:CG1	2.60	0.50
16:AA:125:THR:O	16:AA:147:LEU:CD1	2.59	0.50
17:AV:16:LYS:HZ3	28:AC:258:GLU:HA	1.76	0.50
18:AY:44:LEU:CD1	18:AY:48:TYR:HD2	2.18	0.50
18:AY:106:GLN:O	18:AY:110:ARG:HG3	2.12	0.50
18:AY:114:MET:HG2	18:AY:124:ASN:CB	2.37	0.50
20:Aa:87:ARG:HD3	36:B2:1865:C:OP1	2.12	0.50
22:Ac:18:LEU:HB3	22:Ac:29:GLN:HB2	1.93	0.50
23:AD:21:LEU:HD22	23:AD:25:LEU:CD2	2.42	0.50
23:AD:164:VAL:HG13	23:AD:165:ASN:N	2.27	0.50
23:AD:207:HIS:O	23:AD:208:VAL:CG2	2.60	0.50
24:Ae:6:LEU:N	24:Ae:6:LEU:HD23	2.27	0.50
24:Ae:50:GLY:O	24:Ae:51:LYS:CB	2.60	0.50
26:AJ:168:GLY:O	26:AJ:169:ARG:O	2.30	0.50
26:AJ:170:PRO:C	26:AJ:174:LYS:HZ3	2.19	0.50
27:AE:241:GLY:O	27:AE:244:ILE:CG1	2.58	0.50
28:AC:70:VAL:HG13	28:AC:97:PHE:CD2	2.22	0.50
28:AC:199:PRO:O	28:AC:202:THR:HG23	2.11	0.50
29:AG:142:ARG:NH2	29:AG:152:ASP:N	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:163:ASN:O	29:AG:164:LYS:CB	2.59	0.50
30:AF:53:ALA:HB1	34:AQ:125:ARG:NH2	2.25	0.50
31:AH:122:LEU:HD13	31:AH:123:THR:HA	1.87	0.50
32:AW:86:LEU:HD11	32:AW:113:HIS:HB2	1.93	0.50
34:AQ:7:LEU:CD2	34:AQ:8:GLN:H	2.17	0.50
38:Cz:26:ARG:CG	38:Cz:28:PHE:H	2.24	0.50
38:Cz:41:TYR:CD1	38:Cz:163:LEU:CD2	2.95	0.50
38:Cz:53:VAL:CG2	38:Cz:189:PHE:CD1	2.95	0.50
38:Cz:187:VAL:HG23	38:Cz:188:ASN:N	2.26	0.50
39:Cq:6:ARG:HE	39:Cq:10:LYS:CE	2.24	0.50
39:Cq:45:MET:O	39:Cq:46:SER:C	2.53	0.50
39:Cq:68:HIS:C	39:Cq:70:GLU:H	2.19	0.50
39:Cq:216:LEU:HD21	83:Cs:59:LEU:C	2.34	0.50
40:CK:14:TYR:CE2	40:CK:63:THR:CB	2.93	0.50
41:CO:4:VAL:O	41:CO:4:VAL:CG1	2.29	0.50
42:CL:62:PRO:HD2	42:CL:71:ARG:NH2	2.26	0.50
45:Ca:47:LYS:CE	45:Ca:48:TYR:CD1	2.92	0.50
48:CD:271:MET:HA	48:CD:275:GLN:OE1	2.12	0.50
49:CQ:31:LEU:HD23	74:CC:293:LEU:HD21	1.92	0.50
49:CQ:78:LYS:HB3	49:CQ:137:VAL:HG23	1.93	0.50
49:CQ:158:THR:HB	49:CQ:188:ASN:OXT	2.05	0.50
50:CR:86:ASN:OD1	50:CR:86:ASN:O	2.30	0.50
51:CA:104:VAL:HG13	51:CA:107:MET:HE3	1.84	0.50
51:CA:104:VAL:O	51:CA:107:MET:HG2	2.11	0.50
53:CT:125:TRP:C	53:CT:126:VAL:O	2.48	0.50
56:CX:114:LYS:CD	56:CX:120:ASP:OD1	2.60	0.50
57:CY:86:GLN:OE1	57:CY:86:GLN:O	2.30	0.50
58:CW:63:GLN:O	58:CW:64:SER:CB	2.59	0.50
59:CZ:25:ILE:HG21	59:CZ:28:ASN:OD1	2.12	0.50
61:Ch:86:LYS:HD2	61:Ch:86:LYS:C	2.34	0.50
63:CB:102:PHE:O	63:CB:103:LYS:HD2	2.12	0.50
63:CB:153:MET:HE1	63:CB:194:LEU:HB2	1.94	0.50
68:Cf:104:MET:HB3	68:Cf:106:TYR:CD2	2.47	0.50
70:Ci:26:HIS:O	70:Ci:29:ARG:N	2.28	0.50
70:Ci:70:LEU:HD12	70:Ci:70:LEU:C	2.34	0.50
71:Cj:36:LYS:HZ3	71:Cj:57:ASN:ND2	2.09	0.50
72:Ck:2:PRO:HG2	85:A5:2642:A:C2	2.47	0.50
73:Cl:28:ARG:HA	73:Cl:33:ASN:HD21	1.76	0.50
74:CC:109:ARG:HE	74:CC:111:TRP:HH2	1.56	0.50
74:CC:337:ARG:HE	81:CE:51:VAL:HG22	1.77	0.50
74:CC:342:ARG:NE	74:CC:346:ASN:HD21	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:3:LYS:HD2	77:Cp:4:ARG:H	1.76	0.50
77:Cp:49:ARG:HB2	77:Cp:55:TRP:CH2	2.46	0.50
80:CH:36:ARG:HD3	80:CH:38:PHE:CE1	2.47	0.50
80:CH:50:LYS:N	80:CH:50:LYS:HZ2	2.02	0.50
80:CH:111:LEU:HD23	80:CH:127:ARG:CA	2.27	0.50
85:A5:150:U:O5'	85:A5:150:U:H6	1.95	0.50
1:Az:58:ASP:C	1:Az:63:GLU:CB	2.83	0.50
1:Az:81:LEU:HB2	1:Az:86:LEU:HD11	1.93	0.50
1:Az:686:ALA:O	1:Az:689:GLU:O	2.30	0.50
1:Az:745:TYR:CD2	1:Az:746:LEU:N	2.80	0.50
4:AK:27:VAL:HA	4:AK:43:LEU:CD2	2.42	0.50
7:AM:26:LEU:HD11	7:AM:89:VAL:O	2.11	0.50
8:AS:14:ARG:NH1	8:AS:17:ASN:C	2.70	0.50
10:AN:13:GLN:C	10:AN:14:SER:O	2.47	0.50
11:AL:149:ALA:C	11:AL:150:GLY:O	2.44	0.50
13:AP:71:GLU:HB3	13:AP:72:LYS:HG3	1.93	0.50
13:AP:90:VAL:HA	13:AP:107:ILE:CD1	2.42	0.50
14:AT:11:GLN:NE2	36:B2:1542:C:H5''	2.27	0.50
15:AB:145:LYS:HG3	15:AB:149:GLN:HB3	1.92	0.50
18:AY:18:LEU:CB	18:AY:20:ARG:CZ	2.79	0.50
18:AY:22:GLN:HA	18:AY:74:MET:SD	2.52	0.50
18:AY:55:ILE:CD1	18:AY:75:ILE:HD11	2.41	0.50
18:AY:61:ARG:CG	18:AY:61:ARG:NH2	2.38	0.50
19:AZ:103:HIS:CD2	19:AZ:103:HIS:C	2.89	0.50
20:Aa:44:ILE:HB	20:Aa:65:PRO:HG2	1.93	0.50
22:Ac:20:ARG:HH12	36:B2:1679:A:H5''	1.77	0.50
23:AD:110:LEU:O	23:AD:110:LEU:HD23	2.12	0.50
24:Ae:40:ARG:O	24:Ae:44:ASN:HB3	2.12	0.50
24:Ae:42:PHE:HZ	26:AJ:26:ASP:CG	2.20	0.50
25:Af:144:CYS:SG	25:Af:147:THR:HG22	2.32	0.50
26:AJ:93:LYS:HE3	26:AJ:93:LYS:N	2.26	0.50
27:AE:43:PRO:CD	27:AE:43:PRO:O	2.60	0.50
28:AC:69:LEU:N	28:AC:273:LEU:HD22	2.27	0.50
28:AC:130:ILE:HD11	28:AC:155:ILE:CG2	2.30	0.50
28:AC:208:PRO:O	28:AC:211:LYS:HG3	2.12	0.50
29:AG:188:LYS:O	29:AG:191:ARG:CG	2.60	0.50
32:AW:90:GLN:CA	32:AW:102:ILE:HD12	2.40	0.50
34:AQ:58:LEU:CD1	34:AQ:108:ILE:CG2	2.77	0.50
34:AQ:128:GLU:HG3	36:B2:1648:G:H5'	1.93	0.50
35:Ah:148:GLY:O	35:Ah:150:GLU:CG	2.58	0.50
36:B2:373:G:O2'	36:B2:374:G:H5'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:24:LYS:HB3	38:Cz:172:VAL:HG21	1.93	0.50
38:Cz:67:VAL:CG2	38:Cz:111:LEU:HD12	2.37	0.50
38:Cz:91:LYS:HD3	38:Cz:91:LYS:C	2.36	0.50
39:Cq:75:LEU:HD23	39:Cq:78:LEU:CD1	2.42	0.50
39:Cq:125:ALA:CB	39:Cq:156:SER:HA	2.36	0.50
39:Cq:199:TYR:CD1	39:Cq:203:VAL:HG12	2.46	0.50
39:Cq:260:PRO:O	39:Cq:261:LEU:O	2.30	0.50
40:CK:1:MET:H2	40:CK:2:PRO:HD3	1.76	0.50
40:CK:14:TYR:CE1	40:CK:16:ARG:HB3	2.47	0.50
40:CK:78:SER:N	40:CK:117:ARG:NH1	2.57	0.50
40:CK:111:ASN:O	40:CK:114:ARG:HG2	2.12	0.50
40:CK:114:ARG:HB3	40:CK:129:ILE:HG22	1.93	0.50
40:CK:126:SER:HB2	40:CK:130:LYS:CE	2.42	0.50
41:CO:149:TYR:CG	63:CB:96:PRO:O	2.65	0.50
42:CL:143:GLU:OE1	42:CL:146:LEU:CD1	2.60	0.50
46:CN:8:GLN:HG2	46:CN:50:ARG:CZ	2.42	0.50
48:CD:27:LYS:HE2	79:CJ:147:ARG:NH2	2.26	0.50
48:CD:260:GLU:HG3	48:CD:261:VAL:HG23	1.94	0.50
51:CA:66:PRO:C	51:CA:67:TYR:CD2	2.90	0.50
51:CA:145:LYS:HD3	51:CA:157:VAL:HG11	1.92	0.50
52:CS:158:VAL:CG2	52:CS:159:LEU:N	2.75	0.50
53:CT:3:ASN:CG	53:CT:4:THR:H	2.19	0.50
53:CT:25:VAL:HG13	53:CT:26:PRO:CD	2.39	0.50
53:CT:72:VAL:N	53:CT:91:VAL:O	2.36	0.50
53:CT:150:LEU:O	53:CT:151:LEU:HA	2.12	0.50
55:CU:38:ASN:O	55:CU:41:GLN:HB3	2.12	0.50
55:CU:107:LYS:H	55:CU:107:LYS:CE	2.25	0.50
56:CX:77:ILE:CD1	56:CX:113:VAL:CG2	2.90	0.50
57:CY:40:GLN:C	57:CY:43:ASN:OD1	2.55	0.50
57:CY:110:LYS:HB3	57:CY:115:ARG:HH12	0.33	0.50
60:Cr:28:GLU:OE2	60:Cr:29:PRO:HG2	2.11	0.50
60:Cr:43:LEU:CD2	60:Cr:43:LEU:N	2.57	0.50
60:Cr:118:LEU:O	60:Cr:122:LYS:CD	2.60	0.50
63:CB:301:ASN:C	63:CB:304:SER:OG	2.55	0.50
64:CF:244:ILE:HG23	64:CF:245:ARG:N	2.26	0.50
66:Cd:57:MET:SD	66:Cd:88:LEU:CD1	3.00	0.50
66:Cd:88:LEU:HD12	66:Cd:88:LEU:C	2.34	0.50
70:Ci:66:ASP:O	70:Ci:69:ALA:HB3	2.12	0.50
73:Cl:3:SER:N	73:Cl:5:LYS:CE	2.75	0.50
74:CC:338:ASN:O	74:CC:339:THR:HG23	2.12	0.50
74:CC:345:ARG:CG	74:CC:345:ARG:NH1	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:20:PRO:O	78:Co:73:VAL:HG23	1.99	0.50
78:Co:74:GLU:CD	78:Co:75:PRO:HD3	2.29	0.50
81:CE:98:GLY:CA	81:CE:99:ASP:CB	2.86	0.50
81:CE:261:ILE:CA	81:CE:267:LEU:HD23	2.40	0.50
81:CE:274:VAL:HG12	81:CE:275:PHE:C	2.37	0.50
82:CG:160:ASP:OD1	82:CG:187:LYS:CE	2.59	0.50
82:CG:223:ARG:HG2	82:CG:227:ASN:HD22	1.77	0.50
84:Cv:15:ASN:O	84:Cv:16:SER:O	2.30	0.50
85:A5:667:A:C2	85:A5:668:C:C5	3.00	0.50
85:A5:957:G:C6	85:A5:1284:G:H3'	2.46	0.50
85:A5:1337:A:C2	85:A5:2349:A:C2	2.99	0.50
85:A5:4691:A:H2'	85:A5:4692:A:O4'	2.12	0.50
1:Az:154:VAL:HG22	1:Az:353:MET:CG	2.43	0.49
1:Az:341:ARG:O	1:Az:345:PRO:HG3	2.13	0.49
1:Az:562:GLU:CA	1:Az:570:ILE:CD1	2.74	0.49
1:Az:700:VAL:HG11	1:Az:702:PHE:CE2	2.47	0.49
2:Ag:5:MET:HE1	2:Ag:312:VAL:HG11	1.85	0.49
2:Ag:119:GLN:HE22	2:Ag:121:VAL:CG2	2.14	0.49
3:Au:108:PRO:O	3:Au:110:VAL:CG2	2.53	0.49
7:AM:64:LEU:CD1	25:Af:104:LYS:CE	2.90	0.49
8:AS:51:ASP:CG	8:AS:53:THR:HG1	2.20	0.49
8:AS:72:GLN:O	8:AS:72:GLN:HG2	2.11	0.49
8:AS:89:ASP:O	8:AS:90:VAL:CG2	2.61	0.49
10:AN:38:TYR:CD1	10:AN:78:LYS:CG	2.95	0.49
10:AN:38:TYR:CE2	10:AN:78:LYS:HG3	2.47	0.49
11:AL:40:ILE:CG1	11:AL:68:ILE:HG13	2.41	0.49
13:AP:4:VAL:N	13:AP:10:ARG:CD	2.51	0.49
13:AP:7:LYS:C	13:AP:9:LYS:H	2.19	0.49
13:AP:10:ARG:O	13:AP:11:THR:C	2.54	0.49
16:AA:18:PHE:CZ	16:AA:55:TRP:CE3	3.00	0.49
16:AA:149:ASN:HB2	16:AA:165:ASN:OD1	2.12	0.49
17:AV:16:LYS:NZ	28:AC:258:GLU:HA	2.27	0.49
18:AY:3:ASP:C	18:AY:4:THR:HG1	2.11	0.49
19:AZ:102:LYS:HA	19:AZ:107:VAL:CA	2.40	0.49
20:Aa:41:ILE:CG2	20:Aa:68:TYR:CE1	2.95	0.49
22:Ac:44:ARG:NH1	22:Ac:60:GLU:O	2.45	0.49
22:Ac:67:ARG:O	22:Ac:68:LEU:HB3	2.12	0.49
23:AD:21:LEU:HD22	23:AD:25:LEU:HD21	1.94	0.49
23:AD:141:LYS:HE3	23:AD:179:GLN:HE21	1.76	0.49
23:AD:145:GLN:CD	35:Ah:167:GLY:N	2.66	0.49
24:Ae:28:LYS:HZ2	24:Ae:28:LYS:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:274:VAL:O	28:AC:275:LYS:O	2.30	0.49
32:AW:17:ALA:HB2	32:AW:25:VAL:HG12	1.92	0.49
32:AW:27:ILE:HG13	32:AW:61:ILE:HB	1.93	0.49
33:AI:144:LYS:C	33:AI:145:ILE:HG12	2.24	0.49
33:AI:154:LYS:HD3	33:AI:155:ASN:HA	1.94	0.49
34:AQ:140:ARG:CB	36:B2:1644:C:H4'	2.42	0.49
36:B2:689:U:C6	36:B2:742:U:N3	2.79	0.49
36:B2:1417:C:H3'	36:B2:1417:C:C6	2.47	0.49
36:B2:1518:C:P	36:B2:1519:U:H2'	2.52	0.49
38:Cz:121:PRO:HG3	38:Cz:134:PHE:CE1	2.47	0.49
39:Cq:25:PRO:CD	39:Cq:26:LYS:N	2.75	0.49
39:Cq:63:LYS:CG	39:Cq:82:ILE:HD11	2.42	0.49
39:Cq:182:PRO:O	39:Cq:183:PHE:O	2.30	0.49
39:Cq:187:LEU:HD12	39:Cq:187:LEU:O	2.12	0.49
39:Cq:205:ASP:CA	39:Cq:206:ILE:HB	2.42	0.49
40:CK:33:GLY:N	40:CK:34:PRO:HD3	2.26	0.49
40:CK:95:GLN:C	40:CK:97:ASN:N	2.68	0.49
41:CO:66:PRO:HG2	85:A5:4587:G:H5'	1.94	0.49
42:CL:59:VAL:HG11	85:A5:74:G:C5'	2.42	0.49
42:CL:130:LYS:HB2	42:CL:131:PRO:CD	2.39	0.49
42:CL:149:GLN:C	42:CL:150:LEU:CD2	2.71	0.49
43:CV:88:TYR:O	43:CV:95:PHE:HA	2.11	0.49
46:CN:28:TRP:HZ2	82:CG:66:GLN:OE1	1.95	0.49
49:CQ:93:GLN:O	49:CQ:94:GLU:OE1	2.29	0.49
49:CQ:99:LYS:CE	49:CQ:121:LEU:HD11	2.40	0.49
49:CQ:146:ARG:NH1	49:CQ:149:TYR:CD2	2.80	0.49
49:CQ:159:PRO:O	49:CQ:160:HIS:CB	2.60	0.49
50:CR:160:GLU:O	50:CR:164:SER:OG	2.30	0.49
52:CS:164:LYS:HZ2	52:CS:164:LYS:HA	1.76	0.49
55:CU:24:ASP:CB	55:CU:111:GLU:HG2	2.41	0.49
60:Cr:50:GLY:C	60:Cr:64:ILE:HG22	2.37	0.49
60:Cr:51:VAL:CB	60:Cr:117:ILE:HD11	2.36	0.49
60:Cr:66:ARG:C	60:Cr:80:THR:C	2.79	0.49
65:Cc:28:VAL:HB	65:Cc:33:GLN:HG2	1.88	0.49
66:Cd:115:LYS:O	66:Cd:116:ASN:CB	2.55	0.49
67:Ce:47:ARG:O	67:Ce:48:ARG:CB	2.59	0.49
71:Cj:87:LYS:HD3	71:Cj:88:ARG:H	1.77	0.49
74:CC:211:TYR:HE2	74:CC:229:LEU:HB2	1.77	0.49
74:CC:296:PRO:HD3	74:CC:297:GLU:OE1	2.06	0.49
79:CJ:57:VAL:O	79:CJ:58:ARG:C	2.55	0.49
79:CJ:141:ILE:HD11	86:A7:55:A:N3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:15:ASN:HB3	80:CH:30:PRO:HD3	1.94	0.49
81:CE:127:SER:CB	81:CE:128:HIS:C	2.85	0.49
81:CE:174:LEU:HD11	81:CE:186:LEU:CD2	2.42	0.49
81:CE:219:LYS:CE	85:A5:4940:C:OP2	2.60	0.49
81:CE:264:ILE:CG2	81:CE:265:PRO:CD	2.89	0.49
82:CG:42:GLY:O	82:CG:43:GLN:HG2	1.93	0.49
82:CG:230:TYR:CG	82:CG:231:ASP:N	2.78	0.49
85:A5:1359:G:C6	85:A5:1360:G:C6	2.99	0.49
85:A5:3952:A:H61	85:A5:4060:U:H3	1.59	0.49
86:A7:62:U:O2'	86:A7:64:G:C8	2.64	0.49
1:Az:72:SER:O	1:Az:73:THR:HB	2.10	0.49
1:Az:236:PHE:CE2	1:Az:273:PHE:CE1	2.58	0.49
1:Az:449:ARG:CB	1:Az:473:VAL:HG11	2.41	0.49
1:Az:592:LEU:O	1:Az:592:LEU:CD1	2.57	0.49
4:AK:1:MET:CE	36:B2:1274:G:N2	2.70	0.49
4:AK:46:MET:HA	4:AK:69:TRP:HH2	1.74	0.49
5:AO:129:ILE:HB	20:Aa:65:PRO:CG	2.28	0.49
7:AM:51:VAL:HG13	7:AM:109:VAL:HG23	1.94	0.49
8:AS:82:TRP:HB3	36:B2:1567:G:C6	2.47	0.49
10:AN:114:ARG:CD	10:AN:117:LEU:HD12	2.42	0.49
12:AR:92:ASP:O	12:AR:93:GLN:CD	2.55	0.49
12:AR:102:THR:HG22	16:AA:48:ILE:HG12	1.93	0.49
15:AB:71:LEU:CB	15:AB:84:PHE:HE2	2.25	0.49
16:AA:29:ASN:O	16:AA:151:ASP:HB3	2.12	0.49
16:AA:39:TYR:HB2	16:AA:50:ASN:HD22	1.72	0.49
16:AA:208:GLU:HG2	16:AA:209:GLU:N	2.27	0.49
17:AV:12:TYR:CE1	17:AV:14:PRO:HG3	2.46	0.49
17:AV:64:GLU:O	17:AV:65:SER:C	2.52	0.49
18:AY:76:TYR:CD1	18:AY:82:ALA:HA	2.47	0.49
19:AZ:103:HIS:C	19:AZ:105:ALA:N	2.69	0.49
25:Af:102:VAL:CG1	25:Af:103:LEU:HB2	2.38	0.49
27:AE:11:ARG:CZ	27:AE:20:LEU:HB3	2.42	0.49
29:AG:70:HIS:HB2	29:AG:103:ASP:CG	2.34	0.49
31:AH:83:LEU:HD21	31:AH:92:VAL:CG1	2.38	0.49
33:AI:155:ASN:CG	33:AI:156:ALA:CA	2.85	0.49
35:Ah:298:ASN:O	35:Ah:299:LYS:O	2.30	0.49
36:B2:126:G:O2'	36:B2:127:C:H5	1.95	0.49
39:Cq:168:GLY:N	39:Cq:171:GLU:HG3	2.26	0.49
39:Cq:182:PRO:O	39:Cq:183:PHE:C	2.54	0.49
40:CK:39:PRO:C	40:CK:40:LYS:HD2	2.36	0.49
40:CK:50:THR:CB	40:CK:72:GLU:O	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:64:ILE:HB	40:CK:71:ILE:HB	1.94	0.49
41:CO:36:VAL:HG12	41:CO:37:ARG:N	2.25	0.49
41:CO:62:MET:H	41:CO:69:GLY:HA3	1.77	0.49
43:CV:88:TYR:CD1	43:CV:88:TYR:C	2.90	0.49
43:CV:89:ARG:CD	43:CV:95:PHE:CZ	2.94	0.49
44:CM:79:LYS:HD2	44:CM:79:LYS:C	2.33	0.49
46:CN:31:ARG:HH11	46:CN:31:ARG:CB	2.24	0.49
46:CN:182:HIS:O	46:CN:183:THR:OG1	2.30	0.49
48:CD:188:LYS:O	48:CD:189:GLU:HB2	2.09	0.49
48:CD:268:ARG:NE	48:CD:268:ARG:HA	2.14	0.49
49:CQ:85:THR:CG2	49:CQ:104:ARG:CB	2.83	0.49
49:CQ:91:ARG:O	49:CQ:93:GLN:NE2	2.46	0.49
49:CQ:97:LYS:O	49:CQ:98:LEU:O	2.30	0.49
49:CQ:146:ARG:O	49:CQ:147:GLU:C	2.55	0.49
51:CA:221:LYS:O	51:CA:222:PRO:O	2.30	0.49
52:CS:16:CYS:O	52:CS:17:LEU:C	2.51	0.49
52:CS:17:LEU:O	52:CS:18:PRO:O	2.29	0.49
52:CS:153:PRO:O	52:CS:155:PRO:CG	2.58	0.49
55:CU:34:MET:CE	55:CU:39:PHE:CD2	2.95	0.49
57:CY:86:GLN:CD	57:CY:86:GLN:N	2.69	0.49
59:CZ:4:PHE:C	59:CZ:6:LYS:CG	2.84	0.49
60:Cr:4:HIS:O	60:Cr:8:MET:HG3	2.12	0.49
60:Cr:46:ARG:HE	60:Cr:68:SER:CB	2.17	0.49
60:Cr:75:THR:OG1	74:CC:149:GLU:HA	2.11	0.49
60:Cr:78:VAL:HB	60:Cr:81:THR:O	2.11	0.49
61:Ch:66:LYS:CE	61:Ch:83:LEU:HD21	2.42	0.49
63:CB:49:TYR:CD2	63:CB:171:LEU:CD1	2.94	0.49
63:CB:165:HIS:HB3	63:CB:180:LEU:HG	1.94	0.49
64:CF:56:HIS:NE2	64:CF:60:GLU:OE2	2.44	0.49
64:CF:228:VAL:HG23	64:CF:229:GLU:N	2.27	0.49
66:Cd:111:VAL:CG1	66:Cd:112:THR:N	2.30	0.49
69:Cg:79:GLY:O	69:Cg:81:SER:CA	2.61	0.49
71:Cj:85:LYS:O	71:Cj:87:LYS:CB	2.55	0.49
72:Ck:31:ASN:OD1	72:Ck:46:VAL:HG11	2.12	0.49
73:Cl:9:ILE:O	73:Cl:13:LEU:HG	2.11	0.49
74:CC:25:PRO:O	74:CC:27:VAL:N	2.40	0.49
74:CC:29:LYS:O	74:CC:30:ALA:O	2.30	0.49
74:CC:128:LEU:CD2	74:CC:240:LEU:HD13	2.42	0.49
74:CC:147:VAL:HG12	74:CC:152:LEU:HD13	1.93	0.49
74:CC:190:ARG:HA	74:CC:202:ILE:CD1	2.42	0.49
76:Cn:2:ARG:O	76:Cn:6:ARG:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:46:ARG:NH1	81:CE:47:ASN:CA	2.75	0.49
81:CE:188:ARG:NH1	85:A5:4940:C:O2'	2.45	0.49
81:CE:245:GLN:O	81:CE:245:GLN:OE1	2.30	0.49
82:CG:47:PRO:O	82:CG:48:LYS:C	2.54	0.49
82:CG:175:ARG:HH12	82:CG:176:LYS:HA	1.64	0.49
85:A5:418:A:H4'	85:A5:2311:C:H5'	1.94	0.49
85:A5:1079:C:H42	85:A5:1221:G:H1	1.57	0.49
87:A8:110:U:O2'	87:A8:112:G:H5'	2.12	0.49
1:Az:72:SER:HA	1:Az:104:ASP:OD2	2.11	0.49
1:Az:159:LYS:CE	1:Az:162:ARG:HH11	2.25	0.49
1:Az:275:LYS:CE	1:Az:276:SER:N	2.76	0.49
1:Az:573:SER:HB2	1:Az:574:ASP:CG	2.38	0.49
1:Az:613:LEU:CD2	1:Az:639:TYR:CG	2.81	0.49
1:Az:776:VAL:HG13	1:Az:777:ALA:H	1.77	0.49
1:Az:778:GLY:HA3	40:CK:31:LYS:N	2.27	0.49
2:Ag:142:VAL:HG11	2:Ag:177:TRP:CZ3	2.46	0.49
3:AU:62:ARG:HD2	3:AU:79:ARG:HD3	1.94	0.49
7:AM:92:CYS:CB	7:AM:101:ARG:HG3	2.37	0.49
8:AS:51:ASP:CG	8:AS:53:THR:OG1	2.55	0.49
8:AS:90:VAL:HG12	8:AS:91:LYS:CE	2.42	0.49
9:Ad:20:SER:O	9:Ad:30:LEU:HD11	2.12	0.49
10:AN:26:LEU:CD2	10:AN:66:VAL:HG22	2.42	0.49
14:AT:31:PRO:HG3	14:AT:102:ARG:CG	2.41	0.49
14:AT:59:SER:O	14:AT:62:ARG:HG2	2.11	0.49
15:AB:82:ARG:NH1	15:AB:191:ASP:OD1	2.45	0.49
15:AB:119:THR:HB	15:AB:143:THR:CG2	2.42	0.49
15:AB:228:LEU:CD1	15:AB:232:HIS:CD2	2.94	0.49
20:Aa:45:VAL:CG1	20:Aa:53:ILE:CD1	2.83	0.49
29:AG:163:ASN:O	29:AG:163:ASN:OD1	2.30	0.49
30:AF:182:LYS:CB	30:AF:182:LYS:HZ3	2.24	0.49
31:AH:45:ILE:HG13	31:AH:45:ILE:O	2.11	0.49
31:AH:66:VAL:HG21	31:AH:97:GLN:O	2.12	0.49
31:AH:146:VAL:CG2	32:AW:50:PHE:CD1	2.89	0.49
32:AW:27:ILE:HD11	32:AW:61:ILE:HD12	1.93	0.49
33:AI:117:TYR:HE1	33:AI:155:ASN:HD21	1.60	0.49
36:B2:1354:G:H5''	36:B2:1354:G:H8	1.78	0.49
38:Cz:121:PRO:HG3	38:Cz:134:PHE:CZ	2.48	0.49
38:Cz:143:ASN:HA	38:Cz:146:ALA:C	2.38	0.49
38:Cz:179:LEU:O	38:Cz:183:ILE:HG13	2.12	0.49
39:Cq:57:LYS:HG3	39:Cq:59:THR:H	1.77	0.49
40:CK:53:TRP:O	40:CK:54:LYS:HB2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:143:VAL:O	40:CK:145:GLY:N	2.45	0.49
41:CO:20:ALA:CA	41:CO:87:MET:HE1	2.40	0.49
41:CO:149:TYR:CE2	63:CB:96:PRO:O	2.65	0.49
44:CM:120:ASN:HA	44:CM:123:ILE:HG22	1.93	0.49
46:CN:11:TRP:CZ3	46:CN:19:MET:HE1	2.47	0.49
47:CI:103:LEU:O	47:CI:104:SER:OG	2.29	0.49
48:CD:282:GLN:HA	48:CD:285:ALA:HB3	1.94	0.49
55:CU:33:ILE:CG1	55:CU:96:LEU:HD21	2.42	0.49
55:CU:107:LYS:O	55:CU:108:GLU:HB2	2.12	0.49
61:Ch:85:PRO:O	61:Ch:86:LYS:C	2.55	0.49
63:CB:20:LYS:HG3	63:CB:21:ARG:N	2.26	0.49
63:CB:60:VAL:HG21	63:CB:72:VAL:CG1	2.42	0.49
63:CB:247:GLY:C	85:A5:2838:G:OP1	2.56	0.49
63:CB:321:VAL:HG23	63:CB:373:LYS:HB2	1.94	0.49
65:Cc:11:LEU:HB2	65:Cc:12:GLU:HB2	1.94	0.49
67:Ce:80:HIS:O	67:Ce:81:ASN:HB3	2.12	0.49
68:Cf:53:ALA:O	68:Cf:68:ARG:NE	2.39	0.49
69:Cg:46:CYS:CA	69:Cg:82:MET:HA	2.41	0.49
70:Ci:33:LEU:CD1	70:Ci:33:LEU:H	2.24	0.49
74:CC:56:GLU:O	74:CC:56:GLU:OE1	2.30	0.49
74:CC:317:ASN:O	74:CC:318:PRO:O	2.30	0.49
81:CE:70:LYS:O	81:CE:70:LYS:CG	2.58	0.49
81:CE:223:ARG:CB	81:CE:233:PHE:HE1	2.21	0.49
82:CG:82:GLN:OE1	82:CG:233:ILE:HB	2.12	0.49
82:CG:100:HIS:HE1	82:CG:103:ARG:HD2	1.77	0.49
82:CG:117:ARG:CD	82:CG:130:THR:HG21	2.42	0.49
84:Cv:3:TYR:HB3	84:Cv:7:TYR:HE2	1.77	0.49
84:Cv:50:ASN:O	84:Cv:54:VAL:HG23	2.11	0.49
85:A5:1755:C:OP1	85:A5:1756:U:C5	2.66	0.49
85:A5:3783:A:C2	85:A5:3792:G:C4	3.00	0.49
1:Az:683:PHE:HE1	1:Az:702:PHE:CD2	2.29	0.49
1:Az:762:VAL:HG12	1:Az:796:PHE:CE1	2.43	0.49
1:Az:815:ASP:OD2	1:Az:816:HIS:HE1	1.88	0.49
2:Ag:48:ASP:O	2:Ag:49:GLU:OE2	2.29	0.49
2:Ag:64:HIS:HB3	2:Ag:84:ASP:H	1.76	0.49
7:AM:79:VAL:CG1	7:AM:80:ASP:H	2.25	0.49
7:AM:82:ASN:HD22	7:AM:107:SER:HA	1.77	0.49
8:AS:81:ASP:C	8:AS:87:GLN:NE2	2.70	0.49
8:AS:90:VAL:O	13:AP:17:TYR:C	2.55	0.49
10:AN:37:ILE:HD11	10:AN:63:VAL:HG11	1.95	0.49
10:AN:47:PRO:HG3	10:AN:75:LEU:HD22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:118:ARG:NH1	11:AL:119:ASP:OD2	2.43	0.49
15:AB:87:ILE:HG23	15:AB:101:HIS:HB2	1.94	0.49
16:AA:139:TYR:C	16:AA:140:VAL:CG2	2.85	0.49
16:AA:158:ASP:OD2	17:AV:34:MET:HG3	2.12	0.49
19:AZ:96:LEU:C	19:AZ:112:ASN:HD22	2.20	0.49
22:Ac:47:LYS:HZ1	30:AF:141:VAL:CG2	2.15	0.49
23:AD:18:LYS:HD2	23:AD:18:LYS:C	2.38	0.49
23:AD:178:ARG:HE	23:AD:178:ARG:H	1.59	0.49
27:AE:153:LEU:CD1	27:AE:172:PHE:HZ	1.94	0.49
27:AE:188:ASN:ND2	27:AE:218:PHE:CD1	2.80	0.49
29:AG:170:ARG:HD2	29:AG:171:THR:O	2.13	0.49
29:AG:221:LYS:HA	29:AG:224:ARG:HG3	1.92	0.49
33:AI:139:LYS:CD	33:AI:145:ILE:HD12	2.43	0.49
33:AI:143:LYS:O	33:AI:144:LYS:C	2.55	0.49
34:AQ:112:LEU:CB	34:AQ:120:LEU:HD21	2.42	0.49
36:B2:1334:G:C5	36:B2:1498:A:C2	2.99	0.49
36:B2:1496:U:O2'	36:B2:1498:A:O5'	2.25	0.49
38:Cz:58:THR:OG1	38:Cz:59:PRO:HD2	2.12	0.49
38:Cz:67:VAL:HG12	38:Cz:68:LEU:N	2.26	0.49
38:Cz:180:VAL:HG13	38:Cz:181:TYR:N	2.27	0.49
39:Cq:28:PHE:CE1	39:Cq:189:ILE:CD1	2.95	0.49
39:Cq:80:PRO:HD2	39:Cq:81:HIS:ND1	2.27	0.49
40:CK:103:ASN:HA	40:CK:140:GLY:HA2	1.94	0.49
40:CK:114:ARG:CZ	40:CK:130:LYS:HB3	2.43	0.49
41:CO:130:LYS:O	41:CO:133:ARG:HG2	2.12	0.49
42:CL:46:ILE:HG21	42:CL:51:ALA:HB3	1.95	0.49
42:CL:51:ALA:O	42:CL:52:SER:O	2.29	0.49
42:CL:126:LEU:CD2	42:CL:136:LYS:C	2.86	0.49
43:CV:52:LEU:O	43:CV:53:PRO:C	2.54	0.49
44:CM:25:VAL:HB	44:CM:38:VAL:CG1	2.43	0.49
47:CI:30:LYS:CA	47:CI:30:LYS:CE	2.30	0.49
47:CI:191:ILE:CG2	47:CI:192:PRO:HD2	2.38	0.49
50:CR:44:LEU:CD2	50:CR:49:LEU:CB	2.86	0.49
50:CR:105:LEU:HD21	50:CR:109:TYR:CZ	2.47	0.49
51:CA:179:ILE:HD11	51:CA:188:LYS:HZ1	1.77	0.49
51:CA:189:TYR:CE1	51:CA:195:CYS:SG	3.04	0.49
52:CS:83:ARG:CD	52:CS:92:ASN:HD21	2.22	0.49
56:CX:41:ARG:CZ	56:CX:46:PHE:CE1	2.94	0.49
57:CY:80:ILE:HG12	57:CY:99:ILE:O	2.12	0.49
58:CW:59:HIS:HB3	58:CW:61:LYS:HE2	1.95	0.49
58:CW:109:ILE:O	58:CW:113:LYS:CE	2.57	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:Cr:55:ALA:CA	60:Cr:56:ASP:CB	2.85	0.49
60:Cr:66:ARG:HH12	60:Cr:101:LYS:HA	1.77	0.49
60:Cr:77:TYR:HB3	60:Cr:79:ARG:CD	2.38	0.49
64:CF:93:ILE:HD11	64:CF:244:ILE:CD1	2.42	0.49
66:Cd:25:TYR:HE2	66:Cd:88:LEU:HD11	1.77	0.49
67:Ce:27:ARG:HB3	67:Ce:28:TYR:CE2	2.47	0.49
73:Cl:23:ILE:HD11	73:Cl:38:ASN:N	2.28	0.49
74:CC:5:ARG:NH2	74:CC:26:ALA:HB2	2.27	0.49
75:Cm:79:GLU:O	75:Cm:80:PRO:C	2.56	0.49
80:CH:71:ARG:CG	85:A5:4691:A:H4'	2.41	0.49
81:CE:55:GLY:HA2	81:CE:62:MET:CG	2.42	0.49
81:CE:55:GLY:HA2	81:CE:62:MET:SD	2.53	0.49
81:CE:106:VAL:CG2	81:CE:108:LYS:N	2.76	0.49
81:CE:219:LYS:CD	81:CE:239:LYS:HE2	2.42	0.49
83:Cs:9:CYS:CB	83:Cs:47:PHE:CZ	2.94	0.49
83:Ct:41:PRO:HA	83:Ct:44:PRO:HG2	1.94	0.49
84:Cv:7:TYR:HE1	84:Cv:23:ILE:CD1	2.11	0.49
85:A5:1359:G:O4'	85:A5:1359:G:C8	2.65	0.49
1:Az:91:GLN:OE1	1:Az:363:THR:HG21	2.12	0.49
1:Az:343:TRP:HE3	1:Az:343:TRP:HA	1.77	0.49
1:Az:427:VAL:CG2	1:Az:447:ILE:CD1	2.75	0.49
1:Az:556:ILE:O	1:Az:560:ASP:OD2	2.31	0.49
2:Ag:154:VAL:O	2:Ag:154:VAL:HG23	2.11	0.49
4:AK:16:PHE:CE2	4:AK:79:LEU:CA	2.88	0.49
8:AS:8:LYS:CA	8:AS:9:PHE:CD1	2.95	0.49
8:AS:50:ILE:O	8:AS:51:ASP:C	2.52	0.49
8:AS:124:ARG:CG	13:AP:123:TYR:OH	2.57	0.49
9:Ad:24:CYS:O	9:Ad:25:SER:HB2	2.12	0.49
10:AN:26:LEU:CD2	10:AN:66:VAL:CG2	2.89	0.49
11:AL:69:ARG:O	11:AL:130:GLU:HB3	2.13	0.49
12:AR:34:VAL:HG12	12:AR:38:ILE:HG12	1.94	0.49
12:AR:95:ILE:HA	12:AR:114:LEU:HB3	1.95	0.49
13:AP:10:ARG:O	13:AP:11:THR:O	2.30	0.49
13:AP:49:LEU:H	13:AP:51:ARG:HG3	1.76	0.49
16:AA:180:ARG:NH1	16:AA:184:ARG:HH22	2.10	0.49
17:AV:57:GLY:O	17:AV:61:ARG:HG3	2.13	0.49
18:AY:101:LYS:O	18:AY:102:THR:OG1	2.29	0.49
19:AZ:94:LYS:NZ	19:AZ:95:GLY:N	2.56	0.49
22:Ac:66:ARG:O	22:Ac:68:LEU:CD2	2.60	0.49
23:AD:135:GLU:HG2	23:AD:187:LYS:HB3	1.94	0.49
28:AC:198:ALA:HB2	28:AC:223:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:198:ALA:CB	28:AC:223:TYR:CE2	2.94	0.49
29:AG:162:LEU:O	29:AG:162:LEU:CD1	2.49	0.49
33:AI:144:LYS:H	33:AI:144:LYS:HD3	1.78	0.49
34:AQ:18:THR:C	34:AQ:75:GLY:HA3	2.37	0.49
34:AQ:112:LEU:HD12	34:AQ:120:LEU:HD21	1.94	0.49
36:B2:464:A:C4'	36:B2:465:A:OP2	2.57	0.49
36:B2:1409:A:C2	36:B2:1410:C:C4	3.00	0.49
36:B2:1746:U:O2'	36:B2:1747:C:C5'	2.58	0.49
38:Cz:9:THR:HG23	38:Cz:10:LEU:N	2.25	0.49
38:Cz:41:TYR:CZ	38:Cz:48:ARG:HA	2.47	0.49
38:Cz:175:THR:HG23	38:Cz:178:GLU:H	1.77	0.49
39:Cq:28:PHE:CE1	39:Cq:189:ILE:HD11	2.48	0.49
39:Cq:28:PHE:HE2	39:Cq:98:ILE:CG1	2.25	0.49
39:Cq:111:ALA:HB2	39:Cq:183:PHE:CD1	2.25	0.49
39:Cq:155:LEU:O	39:Cq:155:LEU:HD12	2.13	0.49
39:Cq:236:SER:O	39:Cq:239:HIS:N	2.42	0.49
41:CO:65:ASN:CG	41:CO:67:SER:HG	2.04	0.49
41:CO:68:ARG:HH22	85:A5:4564:A:H5''	1.76	0.49
41:CO:188:LYS:HE2	41:CO:188:LYS:C	2.31	0.49
45:Ca:37:GLY:HA2	45:Ca:45:PHE:HE2	1.69	0.49
45:Ca:40:HIS:NE2	45:Ca:41:HIS:CD2	2.80	0.49
46:CN:150:TRP:CZ2	46:CN:151:ILE:CG1	2.96	0.49
47:CI:109:ASP:CG	47:CI:112:GLN:HG2	2.38	0.49
47:CI:115:MET:CE	47:CI:118:ALA:CB	2.84	0.49
47:CI:184:MET:O	47:CI:189:CYS:HB2	2.13	0.49
48:CD:82:GLU:C	48:CD:84:PRO:HD2	2.37	0.49
48:CD:83:LEU:HB3	48:CD:88:VAL:HB	1.94	0.49
48:CD:186:GLU:O	48:CD:186:GLU:OE1	2.29	0.49
48:CD:261:VAL:HG12	48:CD:263:LYS:HB2	1.94	0.49
49:CQ:31:LEU:HD22	49:CQ:31:LEU:C	2.37	0.49
51:CA:230:PRO:O	51:CA:231:ALA:O	2.30	0.49
51:CA:242:ARG:HG2	51:CA:243:THR:N	2.21	0.49
52:CS:33:PHE:CE1	52:CS:126:ILE:HG21	2.48	0.49
52:CS:98:ARG:CD	52:CS:145:PHE:CD1	2.96	0.49
57:CY:39:ARG:NH1	57:CY:45:ARG:HH21	2.10	0.49
59:CZ:18:TYR:O	59:CZ:21:ARG:HB2	2.12	0.49
60:Cr:34:ALA:HB1	67:Ce:87:VAL:CG1	2.42	0.49
60:Cr:132:ARG:HB2	60:Cr:133:PRO:HD3	1.94	0.49
61:Ch:67:GLU:OE1	61:Ch:70:ARG:NE	2.46	0.49
63:CB:39:LYS:O	63:CB:187:GLY:HA2	2.12	0.49
63:CB:92:TYR:CE2	63:CB:101:THR:HB	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:113:GLU:O	63:CB:178:ALA:HB2	2.09	0.49
63:CB:115:LYS:HZ1	63:CB:119:TYR:HD2	1.61	0.49
64:CF:87:PRO:HG3	64:CF:144:TYR:CE2	2.47	0.49
64:CF:232:ASP:O	64:CF:233:ALA:HB3	2.12	0.49
65:Cc:21:VAL:HG22	65:Cc:99:PRO:HB3	1.93	0.49
66:Cd:65:ASP:O	66:Cd:67:ARG:N	2.46	0.49
67:Ce:13:VAL:HG13	67:Ce:14:LYS:N	2.26	0.49
68:Cf:9:ALA:O	68:Cf:101:ILE:HD13	2.13	0.49
69:Cg:45:ALA:HB3	69:Cg:47:GLY:HA2	1.89	0.49
70:Ci:31:GLY:HA2	85:A5:308:G:C8	2.47	0.49
70:Ci:42:ASP:OD1	70:Ci:42:ASP:O	2.30	0.49
74:CC:122:TYR:CE1	74:CC:280:PRO:HG2	2.42	0.49
74:CC:345:ARG:N	74:CC:345:ARG:HD3	2.27	0.49
78:Co:75:PRO:O	78:Co:76:ASN:OD1	2.29	0.49
79:CJ:26:VAL:HB	79:CJ:68:ILE:O	2.13	0.49
80:CH:18:ILE:CG1	80:CH:55:LEU:HD11	2.41	0.49
81:CE:98:GLY:HA2	81:CE:99:ASP:OD2	2.06	0.49
82:CG:236:HIS:CD2	82:CG:237:TRP:O	2.65	0.49
85:A5:3798:U:H2'	85:A5:3800:A:OP2	2.12	0.49
86:A7:47:G:C2'	86:A7:48:G:H5'	2.43	0.49
1:Az:21:ASN:ND2	1:Az:469:ILE:HD12	2.22	0.49
1:Az:288:THR:HG23	1:Az:289:PHE:N	2.27	0.49
1:Az:433:ASN:O	1:Az:434:TYR:O	2.30	0.49
1:Az:543:GLU:OE1	1:Az:576:VAL:HB	2.12	0.49
1:Az:766:LYS:HB3	1:Az:788:LEU:CD1	2.42	0.49
2:Ag:32:LEU:CD2	2:Ag:69:VAL:HG21	2.42	0.49
3:AU:47:ASN:C	3:AU:48:LEU:HD23	2.34	0.49
5:AO:71:PRO:HB3	5:AO:114:SER:HB3	1.94	0.49
7:AM:33:ARG:HG3	7:AM:33:ARG:NH1	2.21	0.49
7:AM:116:LYS:HD3	35:Ah:293:TRP:HZ3	1.77	0.49
8:AS:141:ARG:HB3	36:B2:1523:C:OP2	2.13	0.49
9:Ad:36:LEU:HD11	23:AD:12:VAL:HG11	0.50	0.49
12:AR:98:VAL:HG11	12:AR:103:LYS:N	2.27	0.49
13:AP:10:ARG:O	79:CJ:91:GLU:CG	2.61	0.49
15:AB:146:ARG:NH1	15:AB:146:ARG:CG	2.72	0.49
20:Aa:17:HIS:O	20:Aa:18:VAL:HG13	2.12	0.49
22:Ac:46:VAL:HG11	30:AF:142:SER:HB2	1.94	0.49
23:AD:220:THR:O	23:AD:221:THR:O	2.30	0.49
24:Ae:1:LYS:HD3	36:B2:1823:A:N6	2.27	0.49
27:AE:129:ILE:HG23	27:AE:139:LEU:CD2	2.43	0.49
29:AG:154:ARG:HG2	29:AG:155:GLN:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:149:ASP:O	31:AH:149:ASP:OD1	2.31	0.49
32:AW:101:PHE:HD2	32:AW:129:PHE:CE1	2.28	0.49
33:AI:25:ARG:CZ	36:B2:433:A:OP1	2.57	0.49
33:AI:140:LYS:CD	33:AI:141:ARG:N	2.72	0.49
33:AI:144:LYS:N	33:AI:144:LYS:CD	2.75	0.49
35:Ah:146:GLY:C	35:Ah:148:GLY:H	2.19	0.49
35:Ah:152:SER:HB2	35:Ah:155:ARG:CD	2.38	0.49
36:B2:1231:C:H2'	36:B2:1232:U:C6	2.47	0.49
36:B2:1852:C:C5	76:Cn:5:TRP:CD1	3.01	0.49
38:Cz:3:SER:HB2	38:Cz:212:LYS:HD2	1.94	0.49
39:Cq:134:LYS:C	39:Cq:136:SER:H	2.21	0.49
39:Cq:261:LEU:O	39:Cq:262:ALA:O	2.30	0.49
39:Cq:264:LYS:C	39:Cq:268:PHE:HD2	2.20	0.49
42:CL:8:MET:SD	49:CQ:168:ARG:HB2	2.52	0.49
42:CL:140:SER:CA	42:CL:143:GLU:HG3	2.31	0.49
43:CV:61:VAL:CG1	43:CV:62:MET:N	2.75	0.49
44:CM:66:HIS:CD2	52:CS:148:SER:HG	2.30	0.49
44:CM:73:VAL:HG13	44:CM:74:ARG:N	2.27	0.49
45:Ca:15:VAL:HB	45:Ca:21:ARG:NH1	2.27	0.49
45:Ca:47:LYS:HD3	45:Ca:48:TYR:CD1	2.47	0.49
47:CI:112:GLN:O	47:CI:113:THR:OG1	2.30	0.49
48:CD:131:ASN:O	48:CD:133:GLU:OE2	2.31	0.49
52:CS:132:ILE:CG2	52:CS:136:LYS:HB2	2.43	0.49
55:CU:115:PHE:C	55:CU:116:GLN:HG3	2.29	0.49
56:CX:52:LEU:HD13	56:CX:53:ARG:CA	2.42	0.49
56:CX:81:LEU:HB2	56:CX:97:VAL:CG1	2.42	0.49
57:CY:45:ARG:HD3	57:CY:45:ARG:C	2.38	0.49
58:CW:119:LYS:C	58:CW:122:SER:HG	2.08	0.49
63:CB:159:VAL:HG11	63:CB:184:GLN:NE2	2.26	0.49
65:Cc:48:LEU:CD2	65:Cc:60:ILE:CD1	2.90	0.49
66:Cd:64:ILE:HD11	66:Cd:68:LEU:HD23	0.50	0.49
67:Ce:12:ILE:N	67:Ce:12:ILE:HD12	2.15	0.49
68:Cf:34:TYR:C	68:Cf:38:GLU:OE1	2.55	0.49
68:Cf:42:TYR:HE2	81:CE:284:HIS:HA	1.73	0.49
74:CC:5:ARG:CA	74:CC:24:LEU:CD1	2.79	0.49
74:CC:32:ILE:HD11	74:CC:129:ALA:CB	2.43	0.49
74:CC:128:LEU:HD23	74:CC:240:LEU:CD2	2.42	0.49
74:CC:218:ILE:O	74:CC:229:LEU:HD11	2.12	0.49
74:CC:349:LEU:HD11	74:CC:353:LYS:HZ1	1.72	0.49
79:CJ:64:ARG:O	79:CJ:65:ASN:HB2	2.13	0.49
82:CG:157:ILE:HD13	82:CG:170:LEU:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:Cs:43:TRP:H	83:Cs:44:PRO:HD3	1.73	0.49
84:Cu:7:TYR:CD2	84:Cu:42:VAL:HG11	2.45	0.49
85:A5:2347:A:C2	85:A5:2348:G:N2	2.80	0.49
85:A5:2849:A:H61	85:A5:2857:A:H61	1.61	0.49
85:A5:4942:C:H5''	85:A5:4943:A:P	2.52	0.49
87:A8:19:C:H2'	87:A8:20:A:O4'	2.13	0.49
1:Az:82:SER:C	1:Az:86:LEU:HD13	2.34	0.49
1:Az:154:VAL:HG13	1:Az:353:MET:CE	2.34	0.49
1:Az:183:GLU:O	1:Az:183:GLU:OE1	2.30	0.49
1:Az:591:CYS:SG	1:Az:732:SER:N	2.85	0.49
2:Ag:236:ILE:HG12	2:Ag:252:THR:HG22	1.93	0.49
5:AO:72:TYR:HB3	30:AF:135:ARG:NH2	2.04	0.49
6:AX:5:ARG:O	32:AW:77:PRO:CD	2.54	0.49
6:AX:52:LEU:CD1	6:AX:53:GLU:CB	2.88	0.49
6:AX:70:VAL:HG12	6:AX:71:ARG:N	2.27	0.49
6:AX:96:GLU:O	6:AX:97:ASN:HB2	2.12	0.49
7:AM:93:LYS:N	7:AM:101:ARG:HD3	2.28	0.49
8:AS:80:PRO:CB	8:AS:82:TRP:NE1	2.75	0.49
9:Ad:36:LEU:CG	23:AD:16:ILE:HD11	2.38	0.49
11:AL:82:MET:HE2	11:AL:85:THR:CG2	2.35	0.49
12:AR:22:THR:CG2	12:AR:73:LEU:CD1	2.72	0.49
13:AP:14:LYS:HB2	13:AP:15:PHE:H	1.33	0.49
17:AV:9:VAL:HG12	17:AV:10:ASP:HA	1.95	0.49
18:AY:120:THR:C	18:AY:122:LYS:H	2.19	0.49
22:Ac:11:LEU:CG	22:Ac:35:MET:HE2	2.42	0.49
26:AJ:84:ILE:HG13	26:AJ:86:VAL:CG2	2.41	0.49
26:AJ:87:LEU:HD12	26:AJ:88:ASP:H	1.77	0.49
27:AE:45:ILE:HG13	27:AE:61:VAL:HG21	1.94	0.49
27:AE:118:GLU:C	27:AE:120:LYS:N	2.70	0.49
28:AC:69:LEU:CD2	28:AC:269:PHE:CB	2.88	0.49
28:AC:211:LYS:HG3	28:AC:212:LYS:N	2.28	0.49
29:AG:162:LEU:CD2	29:AG:170:ARG:HG3	2.43	0.49
31:AH:122:LEU:CD1	31:AH:123:THR:CA	2.71	0.49
31:AH:126:HIS:NE2	31:AH:181:THR:HG22	2.28	0.49
31:AH:190:PRO:HG2	31:AH:192:PHE:CE1	2.47	0.49
34:AQ:50:LYS:CE	34:AQ:85:ARG:NH2	2.72	0.49
34:AQ:124:PRO:HG2	34:AQ:125:ARG:N	2.28	0.49
36:B2:1602:U:O2'	36:B2:1603:G:H5'	2.13	0.49
38:Cz:87:ILE:HD12	38:Cz:119:GLN:HG2	1.92	0.49
39:Cq:77:LYS:HG3	39:Cq:198:ILE:HB	1.94	0.49
40:CK:89:PRO:C	40:CK:90:ARG:O	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:103:ASN:N	40:CK:140:GLY:HA2	2.28	0.49
41:CO:37:ARG:HA	41:CO:39:GLU:OE1	2.13	0.49
42:CL:64:VAL:C	42:CL:67:HIS:CD2	2.90	0.49
43:CV:94:VAL:O	43:CV:94:VAL:HG22	2.11	0.49
44:CM:31:ILE:HG22	44:CM:35:ARG:CD	2.37	0.49
45:Ca:40:HIS:CD2	45:Ca:41:HIS:CD2	3.01	0.49
46:CN:76:PRO:O	46:CN:77:LYS:CG	2.61	0.49
46:CN:116:LEU:HA	46:CN:159:ARG:HH22	1.76	0.49
47:CI:44:ASP:HA	47:CI:171:TRP:HZ2	1.78	0.49
47:CI:109:ASP:C	47:CI:110:ARG:HG3	2.38	0.49
48:CD:47:PRO:CB	48:CD:66:TYR:HD1	2.09	0.49
49:CQ:17:GLU:OE2	49:CQ:18:PRO:O	2.31	0.49
49:CQ:22:ASP:OD1	74:CC:33:ARG:CZ	2.51	0.49
49:CQ:158:THR:CB	49:CQ:188:ASN:C	2.71	0.49
50:CR:134:ASN:HD22	85:A5:2896:G:H5"	1.76	0.49
52:CS:82:LEU:HD21	52:CS:124:ILE:CG1	2.43	0.49
54:CP:124:LYS:HD2	54:CP:140:MET:HE2	1.94	0.49
55:CU:28:PRO:HB3	55:CU:100:LEU:HD21	1.94	0.49
55:CU:34:MET:CE	55:CU:39:PHE:CG	2.96	0.49
55:CU:94:ASN:O	55:CU:95:ASN:CB	2.59	0.49
56:CX:100:VAL:HG13	56:CX:101:ASP:N	2.28	0.49
58:CW:87:LEU:HA	58:CW:90:ILE:HD12	0.93	0.49
59:CZ:26:VAL:HG12	59:CZ:89:ILE:CD1	2.43	0.49
60:Cr:54:ALA:CB	60:Cr:57:GLY:CA	2.91	0.49
63:CB:17:LEU:HD22	63:CB:19:ARG:HG2	1.90	0.49
66:Cd:113:THR:O	66:Cd:113:THR:OG1	2.28	0.49
67:Ce:106:LYS:HG2	67:Ce:107:ASN:N	2.26	0.49
68:Cf:39:THR:HG21	68:Cf:77:ALA:HB2	1.93	0.49
68:Cf:48:ALA:HB2	68:Cf:71:TRP:CZ3	2.48	0.49
70:Ci:70:LEU:CD1	70:Ci:71:LYS:N	2.65	0.49
71:Cj:82:THR:O	71:Cj:83:THR:O	2.30	0.49
74:CC:40:VAL:O	74:CC:44:LEU:CG	2.59	0.49
74:CC:54:VAL:HG21	74:CC:101:MET:CE	2.42	0.49
74:CC:217:ILE:CD1	74:CC:221:PHE:CE1	2.95	0.49
75:Cm:77:ILE:HG12	80:CH:97:ALA:O	2.13	0.49
79:CJ:53:ALA:CB	79:CJ:68:ILE:HD11	2.33	0.49
79:CJ:105:PHE:HE2	79:CJ:134:LEU:HD11	1.78	0.49
82:CG:103:ARG:C	82:CG:104:PRO:HD3	2.31	0.49
82:CG:165:GLU:C	82:CG:167:VAL:H	2.20	0.49
83:Ct:31:LEU:CD2	84:Cv:30:VAL:CA	2.85	0.49
83:Ct:37:VAL:HG12	83:Ct:38:ASN:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:417:G:N2	87:A8:16:G:C5	2.81	0.49
85:A5:3798:U:C2	85:A5:3801:U:C5	3.01	0.49
85:A5:5056:A:H2'	85:A5:5057:C:C6	2.47	0.49
1:Az:70:ILE:O	1:Az:71:LYS:HG3	2.12	0.49
1:Az:154:VAL:CB	1:Az:353:MET:HE3	2.41	0.49
1:Az:192:TYR:CD2	1:Az:192:TYR:N	2.80	0.49
1:Az:241:GLU:N	1:Az:243:GLN:HB2	2.28	0.49
1:Az:613:LEU:HD12	1:Az:641:TRP:CD1	2.48	0.49
1:Az:741:MET:CB	1:Az:819:ILE:HA	2.43	0.49
1:Az:751:CYS:C	1:Az:781:MET:HB3	2.36	0.49
1:Az:847:GLY:HA3	1:Az:848:ILE:HG13	1.95	0.49
7:AM:31:LEU:HD11	7:AM:109:VAL:CB	2.38	0.49
7:AM:58:GLU:O	7:AM:58:GLU:HG3	2.12	0.49
7:AM:93:LYS:H	7:AM:101:ARG:CD	2.26	0.49
8:AS:88:LYS:N	8:AS:95:TYR:HD1	2.10	0.49
10:AN:125:LEU:HD11	10:AN:129:TYR:CZ	2.48	0.49
11:AL:17:PHE:CE1	11:AL:18:GLN:C	2.89	0.49
14:AT:14:PHE:HZ	14:AT:131:LEU:HD12	1.75	0.49
14:AT:45:LEU:HG	14:AT:46:ALA:H	1.76	0.49
15:AB:48:LEU:N	15:AB:48:LEU:CD1	2.71	0.49
18:AY:97:TYR:HD1	18:AY:98:GLU:H	1.58	0.49
22:Ac:67:ARG:HA	22:Ac:68:LEU:HD23	1.91	0.49
23:AD:79:PHE:HE1	23:AD:83:SER:HB3	1.78	0.49
23:AD:123:LEU:CG	23:AD:154:ASP:HB3	2.42	0.49
23:AD:168:VAL:HG13	23:AD:189:MET:SD	2.53	0.49
24:Ae:31:ARG:NH1	24:Ae:32:ALA:H	2.10	0.49
26:AJ:118:GLY:C	26:AJ:120:ALA:H	2.20	0.49
26:AJ:136:ARG:HG2	26:AJ:141:VAL:HA	1.94	0.49
26:AJ:164:PRO:HB3	26:AJ:170:PRO:O	2.12	0.49
28:AC:74:LYS:HD3	28:AC:74:LYS:HA	1.39	0.49
28:AC:213:LEU:HD23	28:AC:213:LEU:C	2.38	0.49
29:AG:33:ALA:N	29:AG:52:ILE:CG2	2.74	0.49
29:AG:147:LEU:CD2	29:AG:156:TYR:HE2	2.24	0.49
30:AF:184:SER:O	30:AF:185:SER:HB2	2.13	0.49
31:AH:28:LEU:O	31:AH:31:GLU:HB2	2.13	0.49
31:AH:79:LEU:O	31:AH:79:LEU:HD23	2.12	0.49
31:AH:100:ILE:HG12	31:AH:125:VAL:CG2	2.37	0.49
33:AI:141:ARG:CB	33:AI:144:LYS:CG	2.87	0.49
35:Ah:284:GLY:O	35:Ah:285:PRO:O	2.30	0.49
36:B2:322:C:H2'	36:B2:323:C:C6	2.47	0.49
39:Cq:127:ASN:CG	40:CK:2:PRO:CB	2.84	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:205:ASP:HA	39:Cq:206:ILE:HB	1.93	0.49
39:Cq:215:PHE:O	39:Cq:219:VAL:HG23	2.13	0.49
40:CK:116:MET:C	40:CK:118:HIS:N	2.65	0.49
40:CK:123:ARG:CD	40:CK:129:ILE:HG13	2.37	0.49
41:CO:62:MET:HE3	41:CO:68:ARG:O	2.13	0.49
42:CL:35:ARG:HD3	85:A5:1361:G:H5''	1.93	0.49
42:CL:64:VAL:C	42:CL:67:HIS:HD2	2.21	0.49
43:CV:26:ILE:HG22	43:CV:101:ASN:HB2	1.95	0.49
43:CV:84:GLN:NE2	43:CV:86:LYS:O	2.45	0.49
50:CR:76:MET:O	50:CR:81:ARG:NH1	2.45	0.49
50:CR:142:ILE:C	50:CR:145:LEU:HG	2.37	0.49
50:CR:161:ALA:HA	50:CR:164:SER:OG	2.12	0.49
51:CA:30:ARG:O	51:CA:31:ALA:O	2.30	0.49
51:CA:226:ARG:H	51:CA:226:ARG:HG3	1.43	0.49
53:CT:108:ARG:NH1	53:CT:112:ASN:HD21	2.11	0.49
55:CU:42:PHE:O	55:CU:46:ARG:HB2	2.13	0.49
55:CU:60:VAL:CG2	55:CU:76:VAL:HB	2.43	0.49
57:CY:50:ARG:HG3	57:CY:115:ARG:HH21	1.78	0.49
60:Cr:28:GLU:O	60:Cr:30:ASN:O	2.30	0.49
63:CB:352:LEU:CD2	63:CB:353:VAL:N	2.66	0.49
64:CF:20:LYS:HA	64:CF:21:LYS:CE	2.43	0.49
64:CF:240:ILE:HG23	64:CF:241:ASN:N	2.26	0.49
65:Cc:82:GLY:H	65:Cc:91:VAL:CG2	2.23	0.49
66:Cd:12:LYS:CE	66:Cd:13:GLY:HA3	2.40	0.49
68:Cf:10:ILE:N	68:Cf:101:ILE:HD11	2.27	0.49
70:Ci:12:ASN:HD22	70:Ci:13:LYS:N	2.11	0.49
70:Ci:53:TYR:CZ	70:Ci:54:GLU:HG3	2.47	0.49
71:Cj:86:PRO:HA	71:Cj:87:LYS:CB	2.43	0.49
74:CC:80:ARG:O	74:CC:80:ARG:HG3	2.13	0.49
74:CC:336:ARG:O	74:CC:340:ILE:HB	2.13	0.49
79:CJ:57:VAL:HG11	79:CJ:60:PHE:HD2	1.67	0.49
80:CH:5:LEU:CD2	80:CH:60:TRP:CH2	2.96	0.49
83:Ct:40:GLU:CB	83:Ct:43:TRP:HD1	2.26	0.49
87:A8:127:U:H2'	87:A8:128:C:O4'	2.13	0.49
1:Az:4:PHE:HD2	1:Az:5:THR:N	2.10	0.49
1:Az:710:HIS:NE2	1:Az:715:HIS:CD2	2.81	0.49
2:Ag:48:ASP:OD1	2:Ag:49:GLU:OE1	2.30	0.49
2:Ag:190:GLY:C	2:Ag:217:MET:HE1	2.38	0.49
3:AU:68:THR:CG2	3:AU:70:CYS:O	2.61	0.49
3:AU:87:ARG:NH1	36:B2:1447:G:OP1	2.37	0.49
5:AO:128:ARG:HH11	15:AB:70:SER:HB3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AM:26:LEU:CD1	7:AM:89:VAL:C	2.81	0.49
7:AM:50:CYS:N	7:AM:75:ASN:HD22	2.10	0.49
7:AM:85:LEU:HA	7:AM:88:TRP:CZ3	2.39	0.49
10:AN:73:ARG:NH1	36:B2:916:A:C4	2.81	0.49
10:AN:142:GLU:HG3	10:AN:144:SER:OG	2.07	0.49
14:AT:77:LYS:HE3	14:AT:92:PHE:CE2	2.48	0.49
14:AT:99:VAL:CG2	14:AT:100:ALA:N	2.76	0.49
16:AA:39:TYR:HB3	16:AA:48:ILE:O	2.12	0.49
16:AA:66:VAL:O	16:AA:67:ALA:CB	2.60	0.49
16:AA:161:ILE:CG2	16:AA:174:MET:CE	2.91	0.49
20:Aa:10:ARG:HD3	36:B2:1866:A:OP1	2.12	0.49
23:AD:85:GLU:C	23:AD:86:LEU:HD12	2.37	0.49
23:AD:123:LEU:CD2	23:AD:154:ASP:OD2	2.61	0.49
24:Ae:31:ARG:NH1	24:Ae:32:ALA:HB2	2.26	0.49
24:Ae:42:PHE:HZ	26:AJ:26:ASP:HB3	1.77	0.49
26:AJ:37:LEU:HG	26:AJ:38:ARG:N	2.28	0.49
26:AJ:127:ARG:HH11	26:AJ:145:PRO:HB3	1.76	0.49
27:AE:100:ARG:CG	27:AE:102:ILE:HD12	2.42	0.49
28:AC:184:VAL:HG11	28:AC:247:THR:HG22	1.94	0.49
29:AG:162:LEU:CD2	29:AG:172:LYS:HE2	2.32	0.49
30:AF:71:ARG:NH2	30:AF:71:ARG:CG	2.48	0.49
31:AH:158:LEU:HG	31:AH:187:PHE:CD1	2.46	0.49
31:AH:169:LYS:O	31:AH:172:THR:HG22	2.12	0.49
33:AI:31:ARG:HH11	33:AI:31:ARG:CG	2.26	0.49
34:AQ:50:LYS:HZ1	34:AQ:117:ARG:HH11	1.60	0.49
34:AQ:51:LEU:HD12	34:AQ:52:LEU:N	2.26	0.49
34:AQ:78:VAL:HG13	34:AQ:82:TYR:CE2	2.43	0.49
38:Cz:30:GLU:OE1	38:Cz:210:MET:N	2.45	0.49
38:Cz:156:LYS:H	38:Cz:156:LYS:CD	2.19	0.49
38:Cz:194:LEU:HD22	38:Cz:195:LYS:N	2.27	0.49
39:Cq:29:ILE:HD11	39:Cq:63:LYS:HZ1	1.77	0.49
39:Cq:93:GLU:O	39:Cq:94:ASP:CG	2.55	0.49
39:Cq:111:ALA:HB3	39:Cq:183:PHE:CE2	2.45	0.49
41:CO:23:VAL:O	41:CO:27:VAL:HG23	2.13	0.49
42:CL:76:PHE:CE2	42:CL:96:ILE:HG23	2.48	0.49
42:CL:94:ILE:HG22	42:CL:120:TYR:CE2	2.44	0.49
43:CV:85:ARG:CG	43:CV:99:GLU:O	2.60	0.49
44:CM:6:PHE:O	44:CM:11:ARG:NH1	2.46	0.49
46:CN:150:TRP:CH2	46:CN:151:ILE:CG1	2.96	0.49
46:CN:160:GLU:OE1	46:CN:160:GLU:N	2.36	0.49
48:CD:43:LYS:HD2	85:A5:1817:U:H4'	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:113:PHE:HZ	85:A5:1819:G:C4	2.30	0.49
48:CD:271:MET:CE	48:CD:275:GLN:CG	2.85	0.49
49:CQ:25:LEU:HA	49:CQ:28:LEU:HD21	1.94	0.49
50:CR:74:ARG:O	50:CR:75:HIS:HB2	2.13	0.49
59:CZ:84:ARG:CD	69:Cg:99:GLU:CD	2.86	0.49
59:CZ:95:VAL:CG2	59:CZ:117:LYS:NZ	2.75	0.49
63:CB:108:GLU:CG	63:CB:137:TRP:CD2	2.92	0.49
63:CB:290:GLY:HA3	63:CB:328:ASN:HA	1.95	0.49
64:CF:142:TRP:CZ2	64:CF:235:ASN:HB2	2.48	0.49
66:Cd:42:ALA:HB1	66:Cd:73:TRP:CG	2.48	0.49
67:Ce:5:ARG:HH21	67:Ce:93:LYS:HZ1	1.59	0.49
74:CC:214:ASP:O	74:CC:214:ASP:OD2	2.30	0.49
74:CC:306:ARG:C	74:CC:307:LYS:CG	2.84	0.49
81:CE:188:ARG:NH1	85:A5:4940:C:H4'	2.27	0.49
82:CG:108:GLN:HA	82:CG:111:LYS:HE3	1.93	0.49
82:CG:174:CYS:CB	82:CG:179:VAL:HG12	2.39	0.49
82:CG:208:ASN:HD21	82:CG:210:GLU:CD	2.21	0.49
82:CG:263:THR:HG23	82:CG:264:LYS:N	2.28	0.49
84:Cu:15:ASN:O	84:Cu:16:SER:O	2.30	0.49
84:Cu:27:LEU:CD1	84:Cu:39:LEU:HD21	2.42	0.49
85:A5:1078:A:C2	85:A5:1233:G:O6	2.66	0.49
85:A5:1641:G:O4'	85:A5:1641:G:N9	2.38	0.49
85:A5:2574:G:N2	85:A5:2764:A:H61	2.10	0.49
1:Az:4:PHE:CD2	1:Az:5:THR:N	2.81	0.49
1:Az:72:SER:HB2	1:Az:105:SER:HA	1.94	0.49
1:Az:228:PHE:HE1	1:Az:232:TYR:HH	1.44	0.49
1:Az:650:TRP:NE1	1:Az:664:ASP:HB2	2.26	0.49
8:AS:80:PRO:HG3	8:AS:82:TRP:NE1	2.28	0.49
8:AS:139:THR:HB	8:AS:140:GLY:H	1.23	0.49
9:Ad:30:LEU:CD2	9:Ad:38:MET:O	2.59	0.49
11:AL:72:ILE:HD12	11:AL:72:ILE:N	2.26	0.49
12:AR:17:ILE:HD11	12:AR:54:VAL:HG13	1.93	0.49
12:AR:21:TYR:CE2	12:AR:73:LEU:HD12	2.48	0.49
15:AB:72:ALA:O	15:AB:76:ASN:HA	2.13	0.49
16:AA:30:LEU:HD13	16:AA:38:ILE:HD11	0.49	0.49
16:AA:52:LYS:HB3	16:AA:52:LYS:HZ2	1.76	0.49
20:Aa:45:VAL:O	20:Aa:46:GLU:CB	2.61	0.49
25:Af:136:PHE:C	25:Af:138:ARG:N	2.71	0.49
27:AE:178:GLY:H	27:AE:195:ILE:HB	1.78	0.49
28:AC:157:LEU:O	28:AC:160:LEU:CG	2.61	0.49
31:AH:154:ILE:HG22	31:AH:185:VAL:HG23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AW:107:SER:HB3	36:B2:860:G:H21	1.78	0.49
35:Ah:157:ILE:CA	35:Ah:157:ILE:O	2.39	0.49
38:Cz:47:LYS:HG3	38:Cz:195:LYS:CD	2.42	0.49
38:Cz:56:LYS:H	38:Cz:185:LEU:CD1	2.26	0.49
39:Cq:78:LEU:C	39:Cq:80:PRO:HD3	2.38	0.49
39:Cq:171:GLU:HA	39:Cq:174:LEU:HD21	1.95	0.49
40:CK:102:GLY:HA3	40:CK:139:VAL:HA	1.91	0.49
41:CO:191:LYS:HB3	41:CO:192:TYR:H	1.48	0.49
42:CL:50:PRO:HD2	42:CL:51:ALA:HB1	1.90	0.49
48:CD:76:CYS:SG	48:CD:109:LEU:HA	2.52	0.49
50:CR:142:ILE:HA	50:CR:145:LEU:CD2	2.43	0.49
51:CA:133:TYR:HE1	51:CA:135:THR:CG2	2.26	0.49
53:CT:81:LYS:C	62:Cb:16:TRP:CZ2	2.91	0.49
54:CP:20:SER:HA	54:CP:145:HIS:ND1	2.27	0.49
59:CZ:3:LYS:C	59:CZ:6:LYS:HE2	2.37	0.49
59:CZ:22:LYS:CD	59:CZ:129:TRP:CH2	2.88	0.49
60:Cr:10:VAL:CG1	60:Cr:10:VAL:O	2.60	0.49
60:Cr:41:ASN:O	60:Cr:42:GLY:C	2.53	0.49
60:Cr:64:ILE:O	60:Cr:64:ILE:HG23	2.12	0.49
61:Ch:9:LEU:N	61:Ch:12:LYS:HE3	2.28	0.49
61:Ch:78:TYR:O	61:Ch:79:LYS:O	2.31	0.49
62:Cb:25:ARG:CB	62:Cb:27:GLN:HE22	2.24	0.49
64:CF:50:ILE:HD11	64:CF:172:ASN:HD22	1.77	0.49
66:Cd:50:ARG:NH2	66:Cd:62:VAL:O	2.46	0.49
66:Cd:75:LYS:CG	66:Cd:79:ASN:O	2.39	0.49
73:Cl:10:LYS:C	73:Cl:10:LYS:CD	2.85	0.49
74:CC:28:PHE:HE1	74:CC:131:SER:N	2.11	0.49
74:CC:128:LEU:HD23	74:CC:240:LEU:HD22	1.94	0.49
74:CC:171:LEU:HD21	74:CC:209:ILE:CD1	2.42	0.49
74:CC:202:ILE:CG2	74:CC:203:GLN:N	2.75	0.49
74:CC:210:ILE:HD13	74:CC:235:LEU:HD21	1.95	0.49
74:CC:311:ARG:O	74:CC:312:ARG:CB	2.61	0.49
75:Cm:103:LEU:CD2	75:Cm:111:ARG:HH22	2.26	0.49
80:CH:123:ILE:HG23	80:CH:123:ILE:O	2.13	0.49
81:CE:44:CYS:C	81:CE:51:VAL:O	2.56	0.49
81:CE:232:ILE:C	81:CE:234:ASP:N	2.67	0.49
82:CG:29:ASN:N	82:CG:30:PRO:CD	2.76	0.49
82:CG:77:PRO:O	82:CG:81:ASN:ND2	2.45	0.49
82:CG:100:HIS:O	82:CG:100:HIS:ND1	2.45	0.49
84:Cv:27:LEU:HD13	84:Cv:34:ALA:CB	2.43	0.49
85:A5:463:A:N1	85:A5:692:A:C2	2.81	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:2369:U:C5	85:A5:4656:A:C2	3.01	0.49
85:A5:3946:G:H1	85:A5:4067:U:H3	1.61	0.49
87:A8:141:C:H2'	87:A8:142:U:C6	2.48	0.49
1:Az:191:THR:CG2	1:Az:192:TYR:CD2	2.95	0.48
1:Az:395:MET:SD	1:Az:486:THR:HG22	2.53	0.48
1:Az:417:PHE:CE2	1:Az:494:MET:HE1	2.48	0.48
2:Ag:26:GLN:HB2	2:Ag:74:ASP:CA	2.35	0.48
2:Ag:38:LYS:HA	2:Ag:66:VAL:HG23	1.94	0.48
2:Ag:64:HIS:O	2:Ag:82:SER:OG	2.29	0.48
3:AU:57:PRO:HA	36:B2:1446:A:H5''	1.95	0.48
6:AX:27:TYR:CD2	6:AX:31:HIS:HD2	2.31	0.48
7:AM:19:GLN:NE2	7:AM:88:TRP:CD1	2.81	0.48
7:AM:76:LEU:CA	7:AM:128:PHE:HZ	2.25	0.48
7:AM:111:VAL:HG11	7:AM:114:TYR:HB3	1.94	0.48
11:AL:5:GLN:NE2	11:AL:10:TYR:HD1	2.09	0.48
11:AL:5:GLN:CD	33:AI:197:PHE:CD2	2.91	0.48
12:AR:105:MET:HE3	16:AA:50:ASN:HA	1.95	0.48
14:AT:11:GLN:O	14:AT:15:VAL:HG13	2.12	0.48
15:AB:137:LEU:HD23	15:AB:215:VAL:CB	2.39	0.48
15:AB:175:GLU:CG	15:AB:193:ILE:CD1	2.84	0.48
16:AA:140:VAL:HG13	28:AC:87:PRO:HG3	1.94	0.48
18:AY:63:HIS:C	18:AY:64:PHE:CD1	2.89	0.48
26:AJ:12:THR:C	26:AJ:48:PHE:CD2	2.90	0.48
27:AE:136:ILE:N	27:AE:136:ILE:HD12	2.26	0.48
30:AF:136:ARG:HD2	30:AF:136:ARG:N	2.28	0.48
31:AH:170:VAL:HA	31:AH:173:PHE:CD2	2.48	0.48
33:AI:6:ASP:OD2	33:AI:8:TRP:N	2.46	0.48
33:AI:29:LEU:CG	33:AI:30:GLY:H	2.22	0.48
33:AI:113:TYR:O	33:AI:117:TYR:HD2	1.96	0.48
34:AQ:16:LYS:HD2	34:AQ:17:LYS:H	1.74	0.48
34:AQ:50:LYS:HG3	34:AQ:85:ARG:NH2	2.26	0.48
36:B2:878:G:H1	36:B2:908:A:H2	1.61	0.48
36:B2:1463:U:H5'	36:B2:1464:C:C6	2.48	0.48
36:B2:1551:U:C4	36:B2:1552:G:O6	2.66	0.48
36:B2:1646:C:C2	36:B2:1678:A:C6	3.01	0.48
38:Cz:52:THR:HG22	38:Cz:156:LYS:HA	1.93	0.48
38:Cz:60:ARG:HB2	38:Cz:174:MET:HE2	1.95	0.48
39:Cq:222:VAL:HA	84:Cu:8:LEU:HD11	1.95	0.48
39:Cq:257:TYR:CZ	84:Cv:45:GLU:HB2	2.48	0.48
40:CK:34:PRO:CD	40:CK:35:LEU:H	2.26	0.48
40:CK:85:LEU:CB	40:CK:106:PHE:CD2	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CK:117:ARG:HG3	40:CK:133:LEU:HD21	1.94	0.48
42:CL:58:ILE:HG21	42:CL:70:VAL:HG11	1.94	0.48
42:CL:191:LEU:HA	42:CL:194:ILE:HD12	1.95	0.48
45:Ca:27:LYS:O	45:Ca:28:HIS:CG	2.65	0.48
47:CI:106:ALA:C	47:CI:108:ALA:HA	2.33	0.48
48:CD:271:MET:CE	48:CD:275:GLN:HB2	2.04	0.48
50:CR:106:LEU:CD2	50:CR:127:VAL:HG21	2.38	0.48
52:CS:45:TRP:NE1	52:CS:56:LYS:HG3	2.28	0.48
52:CS:75:VAL:C	52:CS:99:ASP:O	2.54	0.48
52:CS:84:TYR:CE2	52:CS:85:ASP:C	2.90	0.48
52:CS:132:ILE:HG23	52:CS:136:LYS:HB2	1.94	0.48
52:CS:174:THR:HG23	52:CS:176:PHE:N	2.28	0.48
53:CT:54:HIS:CD2	85:A5:4301:U:H5'	2.48	0.48
56:CX:117:TYR:CB	56:CX:119:ILE:HG21	2.20	0.48
56:CX:132:GLY:C	56:CX:133:GLU:CD	2.80	0.48
57:CY:54:GLU:C	57:CY:55:VAL:CG2	2.83	0.48
57:CY:62:TYR:HB3	57:CY:66:GLN:CG	2.42	0.48
60:Cr:32:LEU:HB3	60:Cr:112:ARG:HH22	1.75	0.48
61:Ch:86:LYS:O	61:Ch:87:LYS:HB2	2.13	0.48
63:CB:173:LEU:H	63:CB:173:LEU:HD22	1.77	0.48
66:Cd:85:ARG:CA	66:Cd:114:PHE:CZ	2.92	0.48
67:Ce:9:LYS:HD3	67:Ce:69:MET:CG	2.42	0.48
70:CI:65:LYS:O	70:CI:66:ASP:C	2.47	0.48
73:Cl:2:SER:CA	73:Cl:5:LYS:HE2	2.43	0.48
74:CC:5:ARG:HA	74:CC:24:LEU:CD1	2.35	0.48
74:CC:142:HIS:HE1	74:CC:248:ARG:C	2.20	0.48
74:CC:294:LYS:O	74:CC:299:GLN:HG3	2.13	0.48
79:CJ:90:ARG:HH11	79:CJ:107:PHE:CB	1.89	0.48
80:CH:29:GLY:HA3	80:CH:84:VAL:HG22	1.95	0.48
80:CH:162:GLN:OE1	80:CH:179:ILE:C	2.53	0.48
81:CE:266:GLN:O	81:CE:267:LEU:C	2.56	0.48
82:CG:60:TYR:CE2	82:CG:61:ILE:HG13	2.48	0.48
83:Cs:31:LEU:HD23	84:Cu:29:SER:OG	2.13	0.48
85:A5:975:C:H42	85:A5:1279:A:H2	1.59	0.48
85:A5:1820:C:H6	85:A5:1820:C:O5'	1.96	0.48
85:A5:2345:G:O2'	85:A5:2346:C:H5'	2.13	0.48
85:A5:4072:C:H2'	85:A5:4073:A:C5'	2.43	0.48
85:A5:4950:U:H3'	85:A5:4951:G:H5''	1.94	0.48
1:Az:4:PHE:HE2	1:Az:5:THR:HB	1.76	0.48
1:Az:72:SER:CB	1:Az:104:ASP:HB3	2.42	0.48
1:Az:75:ILE:CG2	1:Az:76:SER:N	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:272:LYS:HD2	1:Az:273:PHE:HE2	1.75	0.48
1:Az:396:MET:HG3	1:Az:415:ARG:O	2.13	0.48
1:Az:727:ARG:CG	1:Az:727:ARG:NH1	2.75	0.48
1:Az:755:VAL:HG12	1:Az:808:ALA:HB2	1.93	0.48
1:Az:778:GLY:HA3	40:CK:31:LYS:H	1.77	0.48
2:Ag:20:GLN:HG3	2:Ag:68:ASP:HA	0.79	0.48
2:Ag:55:PRO:HG2	34:AQ:102:GLU:CG	2.43	0.48
6:AX:91:LEU:C	6:AX:93:PHE:H	2.19	0.48
7:AM:50:CYS:HB3	7:AM:69:LEU:HD11	1.95	0.48
12:AR:16:ILE:O	12:AR:20:TYR:N	2.46	0.48
13:AP:21:ASP:O	13:AP:25:LEU:HG	2.12	0.48
14:AT:31:PRO:O	14:AT:33:TRP:CA	2.54	0.48
14:AT:31:PRO:HB2	14:AT:33:TRP:NE1	2.28	0.48
14:AT:33:TRP:CD1	14:AT:37:VAL:HG21	2.48	0.48
14:AT:33:TRP:C	14:AT:35:ASP:H	2.21	0.48
14:AT:42:HIS:NE2	14:AT:83:GLN:HB3	2.28	0.48
16:AA:158:ASP:CB	17:AV:65:SER:OG	2.58	0.48
18:AY:55:ILE:CG1	18:AY:75:ILE:HD13	2.41	0.48
19:AZ:71:ALA:O	19:AZ:74:SER:OG	2.24	0.48
23:AD:157:MET:SD	23:AD:187:LYS:HD3	2.50	0.48
24:Ae:40:ARG:HG3	24:Ae:41:ARG:N	2.27	0.48
26:AJ:124:HIS:C	26:AJ:126:ALA:N	2.66	0.48
26:AJ:143:ASN:C	26:AJ:145:PRO:HD3	2.27	0.48
28:AC:144:SER:CB	28:AC:149:THR:HG23	2.43	0.48
29:AG:67:VAL:CG2	29:AG:99:GLY:HA2	2.32	0.48
31:AH:10:LYS:HZ1	31:AH:16:PRO:C	2.20	0.48
31:AH:14:GLU:HG3	31:AH:15:LYS:C	2.38	0.48
31:AH:116:ARG:HA	31:AH:117:PRO:HD3	1.50	0.48
33:AI:38:ILE:HD11	33:AI:96:LEU:HD21	1.95	0.48
33:AI:41:ARG:NH2	36:B2:305:U:OP2	2.46	0.48
34:AQ:37:ARG:HB2	34:AQ:38:PRO:HD2	1.95	0.48
34:AQ:42:ILE:CG2	34:AQ:51:LEU:HD23	2.30	0.48
36:B2:1518:C:H5"	36:B2:1519:U:H5"	1.96	0.48
38:Cz:32:VAL:O	38:Cz:169:VAL:HG22	2.13	0.48
38:Cz:87:ILE:HD11	38:Cz:119:GLN:HG2	1.95	0.48
39:Cq:78:LEU:HD21	39:Cq:193:PHE:CD1	2.48	0.48
39:Cq:81:HIS:HE2	39:Cq:191:GLN:CD	2.21	0.48
39:Cq:137:PHE:O	39:Cq:138:PHE:C	2.56	0.48
40:CK:71:ILE:CG2	40:CK:73:VAL:HG23	2.44	0.48
42:CL:83:VAL:HG21	42:CL:110:LEU:HD21	1.96	0.48
43:CV:106:VAL:CG1	43:CV:110:GLY:C	2.86	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:47:LYS:HA	46:CN:50:ARG:HB3	1.95	0.48
47:CI:60:LEU:O	47:CI:126:VAL:HG13	2.13	0.48
49:CQ:187:LYS:HE2	49:CQ:188:ASN:HD22	1.67	0.48
51:CA:104:VAL:CG1	51:CA:107:MET:HE3	2.40	0.48
51:CA:113:VAL:HB	51:CA:164:ALA:HB1	1.95	0.48
51:CA:139:HIS:ND1	51:CA:146:THR:CG2	2.72	0.48
56:CX:107:HIS:CE1	85:A5:2777:G:OP1	2.66	0.48
57:CY:110:LYS:HD3	57:CY:115:ARG:NH1	2.27	0.48
60:Cr:65:LYS:O	60:Cr:66:ARG:C	2.49	0.48
60:Cr:71:ARG:CD	60:Cr:79:ARG:HD3	2.42	0.48
60:Cr:78:VAL:HG22	60:Cr:82:ILE:CG2	2.06	0.48
61:Ch:3:LYS:HD3	61:Ch:5:LYS:HD3	1.95	0.48
62:Cb:16:TRP:HD1	62:Cb:16:TRP:H	1.62	0.48
63:CB:46:PHE:CD2	63:CB:207:VAL:CG1	2.96	0.48
63:CB:84:MET:HG2	63:CB:164:ALA:HB1	1.95	0.48
63:CB:101:THR:O	63:CB:101:THR:HG23	2.11	0.48
63:CB:315:ASN:OD1	63:CB:319:GLY:HA2	2.13	0.48
64:CF:67:THR:HG23	64:CF:68:GLU:N	2.26	0.48
64:CF:102:SER:O	64:CF:106:ARG:HB2	2.12	0.48
65:Cc:44:LYS:CD	65:Cc:97:ILE:O	2.59	0.48
65:Cc:82:GLY:N	65:Cc:91:VAL:HG22	2.26	0.48
67:Ce:6:PRO:HB3	81:CE:120:ASP:HB2	1.95	0.48
72:Ck:14:THR:CA	72:Ck:17:ARG:HG2	2.42	0.48
78:Co:56:PHE:CZ	78:Co:58:LYS:C	2.91	0.48
79:CJ:95:ARG:HH11	79:CJ:97:ASN:CG	2.21	0.48
80:CH:96:TYR:CZ	80:CH:100:PRO:HA	2.48	0.48
81:CE:129:GLY:C	85:A5:1282:G:H22	2.20	0.48
81:CE:137:VAL:O	81:CE:138:ARG:O	2.30	0.48
82:CG:94:GLN:O	82:CG:94:GLN:OE1	2.31	0.48
82:CG:230:TYR:CD2	82:CG:231:ASP:N	2.81	0.48
85:A5:1378:C:H3'	85:A5:1379:C:H5'	1.96	0.48
85:A5:4300:U:C2	85:A5:4311:A:C2	3.01	0.48
1:Az:112:SER:C	1:Az:115:VAL:H	2.20	0.48
1:Az:181:ILE:O	1:Az:185:VAL:HG23	2.14	0.48
1:Az:420:LEU:HB2	1:Az:464:VAL:O	2.13	0.48
1:Az:744:ILE:HG23	1:Az:816:HIS:CE1	2.48	0.48
1:Az:766:LYS:CB	1:Az:788:LEU:HD11	2.43	0.48
1:Az:829:SER:HG	1:Az:833:GLN:N	2.08	0.48
2:Ag:49:GLU:O	2:Ag:50:THR:OG1	2.30	0.48
2:Ag:87:LEU:CB	2:Ag:101:PHE:HB2	2.43	0.48
4:AK:27:VAL:HG11	4:AK:43:LEU:HD22	1.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AO:126:ILE:O	20:Aa:57:SER:HA	2.12	0.48
10:AN:132:LYS:HE3	10:AN:132:LYS:C	2.36	0.48
12:AR:17:ILE:HG22	12:AR:71:ILE:HD11	1.94	0.48
12:AR:91:LEU:HD13	12:AR:92:ASP:CB	2.43	0.48
14:AT:14:PHE:CZ	14:AT:131:LEU:CD1	2.95	0.48
14:AT:65:TYR:CD1	14:AT:65:TYR:C	2.91	0.48
14:AT:76:THR:HG22	14:AT:95:GLY:O	2.13	0.48
15:AB:87:ILE:CD1	15:AB:101:HIS:CD2	2.62	0.48
16:AA:180:ARG:HH11	16:AA:184:ARG:NH2	2.09	0.48
18:AY:54:VAL:HG13	18:AY:76:TYR:HB2	1.95	0.48
18:AY:68:LYS:O	18:AY:69:THR:CG2	2.61	0.48
19:AZ:58:LEU:CD2	19:AZ:77:LEU:CD1	2.91	0.48
21:Ab:25:VAL:CG1	32:AW:55:ASP:HA	2.43	0.48
22:Ac:68:LEU:CB	30:AF:128:ILE:HD11	2.40	0.48
23:AD:22:ASN:OD1	23:AD:34:TYR:OH	2.30	0.48
24:Ae:28:LYS:HD3	24:Ae:36:MET:HB3	1.96	0.48
28:AC:139:LEU:N	28:AC:241:PHE:CZ	2.81	0.48
32:AW:102:ILE:N	32:AW:113:HIS:ND1	2.57	0.48
32:AW:115:GLU:HG2	32:AW:119:LYS:HE3	1.95	0.48
34:AQ:112:LEU:HD12	34:AQ:120:LEU:CD2	2.43	0.48
36:B2:825:A:H2'	36:B2:826:A:C8	2.48	0.48
36:B2:1472:C:H2'	36:B2:1473:G:O4'	2.13	0.48
36:B2:1601:A:H1'	36:B2:1604:G:C6	2.47	0.48
38:Cz:49:PHE:CE2	38:Cz:157:PHE:CE1	3.01	0.48
38:Cz:111:LEU:HG	38:Cz:143:ASN:CB	2.43	0.48
38:Cz:198:TRP:CG	38:Cz:199:GLN:N	2.81	0.48
39:Cq:210:THR:O	39:Cq:214:ARG:HG3	2.13	0.48
40:CK:104:ILE:HD12	40:CK:140:GLY:CA	2.44	0.48
40:CK:123:ARG:CB	40:CK:129:ILE:HG13	2.43	0.48
41:CO:130:LYS:HE3	41:CO:133:ARG:HE	1.79	0.48
47:CI:3:ARG:HG3	47:CI:123:GLN:CD	2.37	0.48
50:CR:142:ILE:HA	50:CR:145:LEU:HD21	1.96	0.48
51:CA:15:VAL:HG13	85:A5:1539:G:H1'	1.95	0.48
52:CS:2:LYS:HZ1	52:CS:43:ARG:HB2	1.77	0.48
52:CS:133:ALA:O	52:CS:134:ALA:HB2	2.13	0.48
53:CT:80:VAL:H	53:CT:83:LYS:H	1.60	0.48
54:CP:27:LYS:CG	54:CP:63:TYR:HB3	2.42	0.48
56:CX:78:LYS:CE	56:CX:101:ASP:HA	2.37	0.48
57:CY:22:PRO:O	57:CY:25:ILE:N	2.46	0.48
57:CY:110:LYS:CD	57:CY:115:ARG:NH1	2.76	0.48
60:Cr:91:SER:O	60:Cr:92:SER:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:21:LEU:HD11	61:Ch:54:ILE:HG23	1.92	0.48
63:CB:40:PRO:O	63:CB:41:VAL:CB	2.60	0.48
63:CB:312:LYS:HG2	63:CB:313:SER:H	0.43	0.48
65:Cc:21:VAL:HG11	65:Cc:96:ILE:CG2	2.43	0.48
66:Cd:18:ASN:O	66:Cd:20:VAL:CB	2.61	0.48
66:Cd:22:THR:CG2	66:Cd:89:SER:HB2	2.34	0.48
66:Cd:59:THR:HG23	66:Cd:102:LEU:HB3	1.95	0.48
67:Ce:122:VAL:O	67:Ce:125:PRO:HD3	2.13	0.48
70:Ci:1:MET:HE2	70:Ci:1:MET:H1	1.77	0.48
70:Ci:43:MET:HE3	82:CG:173:LEU:CD2	2.29	0.48
72:Ck:13:LEU:HA	72:Ck:16:ARG:HH21	1.77	0.48
74:CC:158:VAL:CA	74:CC:161:TYR:HD2	2.18	0.48
74:CC:176:ALA:O	74:CC:177:TRP:C	2.56	0.48
74:CC:345:ARG:HG2	74:CC:345:ARG:NH1	2.05	0.48
77:Cp:49:ARG:HG2	77:Cp:54:ILE:O	2.13	0.48
78:Co:104:ILE:O	79:CJ:63:ARG:NE	2.46	0.48
79:CJ:166:PHE:CD1	79:CJ:170:TYR:HD2	2.30	0.48
82:CG:152:ALA:CA	82:CG:205:THR:HG23	2.23	0.48
83:Cs:7:LEU:O	83:Cs:11:TYR:CD2	2.65	0.48
85:A5:4884:G:N2	85:A5:4935:C:C2	2.81	0.48
1:Az:154:VAL:C	1:Az:205:ILE:CD1	2.87	0.48
1:Az:381:ALA:O	1:Az:385:ILE:HG12	2.13	0.48
1:Az:480:VAL:O	1:Az:481:LYS:CB	2.35	0.48
1:Az:590:LEU:CD2	1:Az:605:LYS:HG3	2.43	0.48
2:Ag:306:LEU:HD23	2:Ag:307:VAL:O	2.13	0.48
4:AK:27:VAL:HA	4:AK:43:LEU:HD23	1.96	0.48
6:AX:14:ARG:CG	11:AL:99:TYR:OH	2.61	0.48
7:AM:64:LEU:HD11	25:Af:104:LYS:CE	2.43	0.48
8:AS:7:GLU:O	19:AZ:50:PHE:O	2.31	0.48
8:AS:26:ILE:HD11	8:AS:59:LEU:CG	2.42	0.48
8:AS:136:THR:OG1	36:B2:1520:G:H5''	2.13	0.48
11:AL:1:MET:C	11:AL:2:ALA:O	2.54	0.48
12:AR:101:ASP:HA	12:AR:104:GLU:HB2	1.95	0.48
12:AR:102:THR:N	16:AA:48:ILE:HD13	2.28	0.48
13:AP:79:HIS:CD2	36:B2:1298:G:H1'	2.48	0.48
15:AB:19:LYS:HZ3	15:AB:19:LYS:CB	2.06	0.48
15:AB:33:VAL:HG12	15:AB:44:ILE:CD1	2.36	0.48
15:AB:49:VAL:HG22	15:AB:65:ARG:HH12	1.71	0.48
15:AB:183:GLU:O	15:AB:187:LYS:HB2	2.14	0.48
15:AB:208:HIS:CD2	15:AB:208:HIS:C	2.88	0.48
16:AA:91:ALA:HA	16:AA:96:ALA:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AV:24:ILE:HD12	17:AV:25:GLY:N	2.20	0.48
17:AV:53:TYR:CD2	17:AV:72:LEU:HB3	2.48	0.48
22:Ac:17:VAL:O	22:Ac:17:VAL:HG13	2.13	0.48
23:AD:197:LYS:N	23:AD:198:ILE:HG13	2.27	0.48
23:AD:202:LYS:HB3	23:AD:203:PRO:HD3	1.95	0.48
24:Ae:12:VAL:C	24:Ae:16:THR:HG23	2.32	0.48
27:AE:21:ASP:OD1	27:AE:24:THR:CG2	2.53	0.48
27:AE:129:ILE:CG2	27:AE:139:LEU:HD21	2.42	0.48
27:AE:180:LEU:CD1	27:AE:228:ILE:CD1	2.91	0.48
28:AC:69:LEU:HD22	28:AC:269:PHE:CB	2.44	0.48
28:AC:169:TYR:OH	28:AC:177:PRO:N	2.45	0.48
32:AW:89:TRP:C	32:AW:102:ILE:HD11	2.38	0.48
36:B2:835:C:C4	36:B2:837:A:OP2	2.67	0.48
38:Cz:49:PHE:HE2	38:Cz:190:LEU:CD2	2.19	0.48
38:Cz:143:ASN:CA	38:Cz:147:LYS:H	2.26	0.48
39:Cq:26:LYS:C	39:Cq:193:PHE:O	2.56	0.48
39:Cq:188:VAL:HG12	39:Cq:189:ILE:N	2.29	0.48
40:CK:86:LYS:HA	40:CK:104:ILE:CD1	2.43	0.48
41:CO:16:LEU:HD21	41:CO:41:ILE:CG1	2.40	0.48
42:CL:86:ILE:HD11	42:CL:121:ARG:HD3	1.95	0.48
42:CL:141:ALA:O	42:CL:147:ALA:CB	2.61	0.48
43:CV:16:ILE:CD1	43:CV:57:VAL:HB	2.42	0.48
47:CI:38:ARG:CG	47:CI:83:ASP:CA	2.92	0.48
47:CI:52:MET:HE3	47:CI:152:LEU:HB3	1.94	0.48
47:CI:86:HIS:HB3	47:CI:139:ARG:CG	2.43	0.48
48:CD:37:VAL:CG2	48:CD:50:ARG:CZ	2.90	0.48
50:CR:99:MET:O	50:CR:103:ARG:HB2	2.13	0.48
50:CR:184:ILE:O	50:CR:184:ILE:CG2	2.62	0.48
52:CS:160:ARG:C	52:CS:163:HIS:HB3	2.37	0.48
55:CU:18:VAL:HG12	55:CU:19:LEU:N	2.27	0.48
56:CX:100:VAL:HG11	56:CX:109:ILE:HG12	1.95	0.48
58:CW:97:LYS:CG	58:CW:98:PRO:HD3	2.44	0.48
61:Ch:14:LYS:O	61:Ch:15:GLU:C	2.55	0.48
63:CB:12:GLY:N	85:A5:4622:A:H5''	2.28	0.48
65:Cc:59:GLU:HG3	65:Cc:63:TYR:CE1	2.49	0.48
70:Ci:9:VAL:HG13	70:Ci:10:GLY:N	2.28	0.48
71:Cj:68:LYS:HG2	71:Cj:69:ILE:HG23	1.95	0.48
74:CC:210:ILE:HD12	74:CC:252:TRP:CZ2	2.48	0.48
74:CC:233:SER:O	74:CC:263:LEU:HD13	2.11	0.48
74:CC:266:THR:CA	74:CC:279:LEU:HD11	2.43	0.48
74:CC:348:LYS:N	74:CC:349:LEU:N	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:Cn:2:ARG:O	76:Cn:6:ARG:CG	2.61	0.48
77:Cp:8:VAL:HB	77:Cp:11:VAL:HG23	1.96	0.48
78:Co:15:CYS:SG	78:Co:77:CYS:SG	3.11	0.48
78:Co:24:THR:HG23	78:Co:69:ARG:O	2.13	0.48
78:Co:68:LEU:CG	78:Co:83:LEU:HD12	2.43	0.48
79:CJ:109:ILE:HD12	79:CJ:111:GLU:O	2.13	0.48
79:CJ:145:LYS:HE3	86:A7:44:C:H5''	1.96	0.48
82:CG:86:ALA:CB	82:CG:183:ILE:HD13	2.43	0.48
83:Cs:32:ILE:CG2	83:Cs:37:VAL:CG1	2.92	0.48
83:Ct:11:TYR:HB3	84:Cv:9:LEU:HG	1.94	0.48
85:A5:975:C:N4	85:A5:1279:A:C2	2.82	0.48
85:A5:2638:G:N2	85:A5:2697:A:H62	2.11	0.48
85:A5:4770:U:H2'	85:A5:4771:C:C5	2.48	0.48
1:Az:154:VAL:HA	1:Az:205:ILE:CD1	2.44	0.48
2:Ag:172:LYS:HG3	2:Ag:192:THR:HA	1.94	0.48
3:AU:43:ALA:O	3:AU:48:LEU:HG	2.14	0.48
4:AK:47:LYS:HD2	4:AK:50:GLN:NE2	2.29	0.48
4:AK:66:HIS:ND1	23:AD:76:ARG:CG	2.77	0.48
6:AX:8:ARG:O	6:AX:10:ALA:N	2.42	0.48
6:AX:126:ALA:O	6:AX:127:ASN:C	2.54	0.48
8:AS:28:PHE:CZ	36:B2:1603:G:C4	3.01	0.48
8:AS:73:ASN:C	8:AS:76:GLN:OE1	2.56	0.48
8:AS:111:LEU:HD22	8:AS:125:HIS:CG	2.48	0.48
13:AP:75:VAL:HG21	13:AP:104:GLN:NE2	2.27	0.48
14:AT:84:ARG:C	14:AT:86:GLY:H	2.22	0.48
14:AT:102:ARG:HD2	14:AT:102:ARG:HA	1.70	0.48
15:AB:93:GLY:C	15:AB:94:LYS:HG2	2.38	0.48
15:AB:105:LEU:HD11	15:AB:213:ARG:HG3	1.93	0.48
18:AY:33:ALA:O	18:AY:34:THR:OG1	2.29	0.48
21:Ab:81:ARG:CB	21:Ab:82:LYS:HD3	2.42	0.48
23:AD:108:LYS:CA	23:AD:113:LEU:CD2	2.91	0.48
23:AD:117:ARG:CB	35:Ah:186:ASP:CG	2.87	0.48
24:Ae:42:PHE:N	24:Ae:45:VAL:CG2	2.73	0.48
26:AJ:121:LYS:O	26:AJ:122:SER:HB2	2.14	0.48
26:AJ:125:HIS:CE1	26:AJ:129:LEU:HD21	2.48	0.48
27:AE:47:PHE:CE2	27:AE:52:LEU:HD12	2.42	0.48
27:AE:70:ILE:HG13	27:AE:92:ILE:HD12	1.86	0.48
27:AE:149:TYR:HD2	29:AG:205:GLU:OE1	1.97	0.48
27:AE:151:ASP:HB3	27:AE:152:PRO:CD	2.43	0.48
27:AE:171:ASP:CG	27:AE:172:PHE:HD2	2.20	0.48
29:AG:41:LEU:HD21	29:AG:45:TRP:CH2	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:121:ILE:CG2	29:AG:122:PRO:HD2	2.26	0.48
31:AH:121:THR:HG22	31:AH:124:ALA:CB	2.43	0.48
33:AI:8:TRP:O	33:AI:8:TRP:CE3	2.66	0.48
34:AQ:45:ARG:HG2	34:AQ:46:THR:H	1.78	0.48
34:AQ:145:TYR:HB3	34:AQ:146:ARG:H	1.53	0.48
35:Ah:145:LYS:C	35:Ah:147:GLU:N	2.69	0.48
36:B2:1407:U:H2'	36:B2:1408:U:C6	2.48	0.48
38:Cz:29:LEU:CD1	38:Cz:172:VAL:H	2.27	0.48
38:Cz:160:LYS:HE2	38:Cz:161:LYS:N	2.27	0.48
38:Cz:199:GLN:HB2	38:Cz:202:ARG:HH12	1.77	0.48
39:Cq:45:MET:C	39:Cq:47:LEU:N	2.70	0.48
39:Cq:77:LYS:HD2	39:Cq:198:ILE:HG21	1.94	0.48
39:Cq:232:PRO:HG2	84:Cu:42:VAL:HG22	0.57	0.48
40:CK:21:GLU:OE1	40:CK:48:LYS:HG3	2.13	0.48
40:CK:108:GLU:O	40:CK:111:ASN:HB2	2.13	0.48
41:CO:130:LYS:HE2	41:CO:133:ARG:HH21	1.75	0.48
41:CO:184:ASN:O	41:CO:188:LYS:CD	2.61	0.48
42:CL:100:PRO:CD	42:CL:101:ARG:H	2.18	0.48
46:CN:28:TRP:CE3	82:CG:67:ARG:CD	2.93	0.48
47:CI:186:ALA:O	47:CI:187:LYS:HE2	2.13	0.48
48:CD:69:ILE:HG22	53:CT:31:MET:HB2	1.94	0.48
48:CD:122:GLN:NE2	48:CD:126:THR:H	2.11	0.48
48:CD:223:PHE:CA	86:A7:49:A:OP1	2.62	0.48
49:CQ:25:LEU:HD12	49:CQ:28:LEU:CD1	2.44	0.48
52:CS:71:SER:C	52:CS:73:LEU:N	2.64	0.48
53:CT:30:TYR:CE1	53:CT:94:GLU:OE2	2.67	0.48
53:CT:125:TRP:CD1	53:CT:126:VAL:CA	2.96	0.48
54:CP:10:ASN:ND2	54:CP:10:ASN:C	2.72	0.48
54:CP:29:THR:HG22	54:CP:87:SER:OG	2.13	0.48
56:CX:38:LYS:CG	56:CX:39:LYS:C	2.81	0.48
57:CY:32:SER:OG	57:CY:106:ILE:HD11	2.13	0.48
58:CW:14:TYR:HB2	58:CW:17:HIS:CD2	2.49	0.48
58:CW:95:ASN:O	58:CW:96:GLN:HB2	2.14	0.48
59:CZ:16:GLY:N	59:CZ:19:SER:HB3	2.27	0.48
61:Ch:111:GLU:O	61:Ch:115:PRO:HB3	2.13	0.48
63:CB:24:ARG:C	63:CB:26:ARG:N	2.72	0.48
63:CB:247:GLY:HA2	85:A5:2838:G:H5'	1.94	0.48
65:Cc:87:LYS:CD	65:Cc:89:TYR:CE2	2.90	0.48
66:Cd:85:ARG:HD3	66:Cd:114:PHE:HE1	1.79	0.48
70:Ci:58:MET:O	70:Ci:61:LEU:HB2	2.13	0.48
74:CC:324:ILE:CG1	85:A5:1282:G:H5''	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:Cp:30:GLU:HA	77:Cp:33:GLN:NE2	2.28	0.48
79:CJ:173:ILE:HG23	79:CJ:174:ILE:O	2.11	0.48
80:CH:86:LEU:CD2	80:CH:189:GLN:OE1	2.62	0.48
80:CH:126:VAL:HG21	80:CH:161:ILE:HA	1.96	0.48
81:CE:181:LEU:HD11	81:CE:268:GLN:HA	1.95	0.48
81:CE:264:ILE:HB	81:CE:267:LEU:HB3	1.96	0.48
82:CG:73:ARG:HH22	82:CG:243:GLY:N	2.12	0.48
82:CG:89:ARG:H	82:CG:89:ARG:CD	2.25	0.48
82:CG:208:ASN:HD21	82:CG:210:GLU:HB2	1.77	0.48
84:Cv:27:LEU:HD13	84:Cv:34:ALA:HB2	1.96	0.48
85:A5:723:A:H2	85:A5:943:A:C2	2.32	0.48
1:Az:196:GLU:OE1	1:Az:196:GLU:HA	2.05	0.48
1:Az:401:MET:CE	1:Az:476:ASP:HA	2.44	0.48
1:Az:593:SER:OG	1:Az:728:CYS:CA	2.62	0.48
1:Az:643:VAL:HG13	1:Az:644:ALA:N	2.27	0.48
1:Az:745:TYR:CB	1:Az:815:ASP:N	2.70	0.48
2:Ag:282:GLU:O	2:Ag:283:PRO:O	2.30	0.48
4:AK:40:VAL:CG2	4:AK:44:HIS:N	2.77	0.48
10:AN:139:TRP:CE3	10:AN:139:TRP:C	2.91	0.48
11:AL:59:LYS:HD2	11:AL:112:HIS:NE2	2.29	0.48
12:AR:122:PRO:CA	12:AR:123:THR:OG1	2.61	0.48
13:AP:65:LYS:HG3	13:AP:66:GLU:H	1.79	0.48
13:AP:127:LYS:O	13:AP:127:LYS:CD	2.61	0.48
14:AT:4:VAL:HB	14:AT:8:ASP:HB2	1.94	0.48
14:AT:40:ALA:O	14:AT:43:LYS:CB	2.62	0.48
14:AT:77:LYS:HD2	14:AT:94:ARG:HH11	1.78	0.48
14:AT:83:GLN:C	14:AT:83:GLN:CD	2.81	0.48
14:AT:85:ASN:HD21	14:AT:91:HIS:HD2	1.56	0.48
15:AB:71:LEU:HD13	15:AB:84:PHE:CZ	2.26	0.48
15:AB:87:ILE:HG23	15:AB:101:HIS:CB	2.43	0.48
16:AA:55:TRP:NE1	16:AA:59:LEU:HD11	2.29	0.48
16:AA:76:VAL:HG13	16:AA:175:TRP:CZ2	2.37	0.48
16:AA:97:THR:HG22	16:AA:98:PRO:N	2.27	0.48
20:Aa:61:ALA:O	20:Aa:62:TYR:HB3	2.13	0.48
22:Ac:10:LYS:CD	22:Ac:61:SER:HB3	2.37	0.48
23:AD:123:LEU:HD23	23:AD:123:LEU:C	2.39	0.48
23:AD:140:GLY:HA2	36:B2:1334:G:H5'	1.96	0.48
23:AD:196:GLY:O	23:AD:199:GLY:HA2	2.12	0.48
29:AG:11:GLY:CA	58:CW:80:ARG:CZ	2.75	0.48
29:AG:80:GLY:O	29:AG:81:HIS:ND1	2.47	0.48
33:AI:110:ARG:NH2	33:AI:124:LYS:NZ	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:118:ALA:CB	33:AI:149:TYR:CE1	2.94	0.48
34:AQ:72:VAL:HG12	34:AQ:80:GLN:NE2	2.29	0.48
36:B2:536:A:H2'	36:B2:537:C:H5'	1.96	0.48
36:B2:990:A:C2	36:B2:992:A:C6	3.01	0.48
39:Cq:26:LYS:CG	39:Cq:194:ASP:OD1	2.58	0.48
39:Cq:26:LYS:HD2	39:Cq:98:ILE:CD1	2.44	0.48
40:CK:22:VAL:CG1	40:CK:44:ASP:C	2.87	0.48
40:CK:107:ASP:OD2	40:CK:143:VAL:CG1	2.60	0.48
41:CO:36:VAL:HG11	41:CO:108:ILE:CB	2.43	0.48
41:CO:47:PHE:CZ	41:CO:141:LEU:HA	2.48	0.48
41:CO:122:ALA:CB	52:CS:161:ARG:HG3	2.42	0.48
42:CL:186:ARG:HA	70:CI:9:VAL:HG11	1.94	0.48
44:CM:5:ARG:CB	44:CM:11:ARG:CZ	2.92	0.48
44:CM:123:ILE:HG23	44:CM:124:LYS:N	2.28	0.48
48:CD:223:PHE:HA	86:A7:49:A:OP1	2.14	0.48
49:CQ:31:LEU:O	49:CQ:31:LEU:CD2	2.61	0.48
49:CQ:53:MET:CE	49:CQ:57:ASN:O	2.62	0.48
50:CR:32:ILE:HD11	50:CR:44:LEU:HD22	1.95	0.48
50:CR:39:GLN:HG2	50:CR:40:GLN:H	1.78	0.48
51:CA:39:GLY:CA	82:CG:41:ILE:HD11	2.39	0.48
51:CA:222:PRO:HG3	85:A5:3748:A:C2	2.48	0.48
52:CS:170:LYS:O	52:CS:172:PRO:HB3	2.13	0.48
53:CT:144:ASN:C	53:CT:146:LYS:H	2.15	0.48
54:CP:40:HIS:CG	54:CP:43:LYS:HD3	2.48	0.48
54:CP:101:ASN:O	54:CP:105:LYS:HE3	2.14	0.48
56:CX:40:ILE:O	56:CX:40:ILE:HG23	2.13	0.48
56:CX:100:VAL:CG1	56:CX:101:ASP:N	2.74	0.48
57:CY:30:MET:SD	57:CY:80:ILE:CG2	3.02	0.48
57:CY:44:VAL:CG1	57:CY:122:LYS:CD	2.79	0.48
58:CW:73:ARG:O	58:CW:74:ARG:HB2	2.13	0.48
59:CZ:118:PHE:CE1	59:CZ:130:PHE:CE2	3.02	0.48
63:CB:90:VAL:HG22	63:CB:101:THR:OG1	2.13	0.48
63:CB:315:ASN:ND2	63:CB:319:GLY:HA2	2.28	0.48
63:CB:357:ARG:CA	63:CB:359:ALA:O	2.62	0.48
64:CF:118:PHE:CE2	64:CF:215:SER:OG	2.61	0.48
64:CF:200:ARG:O	64:CF:202:LYS:N	2.47	0.48
66:Cd:54:MET:SD	66:Cd:62:VAL:HG23	2.53	0.48
67:Ce:50:LYS:NZ	68:Cf:20:ASN:OD1	2.46	0.48
68:Cf:34:TYR:HB2	68:Cf:38:GLU:OE1	2.14	0.48
69:Cg:3:GLN:HG3	69:Cg:29:ARG:HH21	1.77	0.48
71:Cj:87:LYS:HD3	71:Cj:88:ARG:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:111:GLU:HB2	79:CJ:113:ILE:HD11	1.95	0.48
81:CE:55:GLY:HA2	81:CE:62:MET:HG3	1.96	0.48
81:CE:115:TYR:HB2	81:CE:117:PRO:HG3	1.96	0.48
81:CE:143:SER:C	81:CE:144:ILE:O	2.52	0.48
81:CE:258:LEU:O	81:CE:261:ILE:HG12	2.13	0.48
84:Cu:44:SER:O	84:Cu:45:GLU:C	2.47	0.48
85:A5:3778:U:O4	85:A5:3816:A:C8	2.66	0.48
1:Az:154:VAL:HG11	1:Az:358:LEU:CD1	2.39	0.48
1:Az:308:LYS:CB	1:Az:311:GLU:HG3	2.44	0.48
1:Az:579:TYR:CE1	1:Az:742:GLU:HG3	2.49	0.48
2:Ag:47:ARG:O	2:Ag:48:ASP:C	2.57	0.48
5:AO:62:VAL:HG12	5:AO:63:LYS:N	2.28	0.48
5:AO:121:ARG:HG2	20:Aa:52:ASP:OD2	2.13	0.48
10:AN:52:VAL:HG13	21:Ab:51:GLN:OE1	2.13	0.48
11:AL:71:ARG:CD	11:AL:73:LEU:CG	2.91	0.48
11:AL:113:LEU:HD11	11:AL:120:VAL:HG11	1.94	0.48
12:AR:85:VAL:HG21	16:AA:201:LEU:CD2	2.44	0.48
13:AP:127:LYS:O	13:AP:127:LYS:HG3	2.12	0.48
14:AT:4:VAL:CA	14:AT:8:ASP:OD2	2.54	0.48
14:AT:78:ILE:HG23	14:AT:79:TYR:N	2.27	0.48
15:AB:49:VAL:HG23	15:AB:65:ARG:HH12	1.76	0.48
15:AB:132:GLY:O	15:AB:133:TYR:C	2.56	0.48
15:AB:146:ARG:HH21	36:B2:1123:C:H5'	1.78	0.48
15:AB:172:MET:HE2	15:AB:172:MET:HB3	1.66	0.48
16:AA:14:ASP:OD2	16:AA:55:TRP:HH2	1.96	0.48
16:AA:85:ARG:NE	16:AA:201:LEU:O	2.47	0.48
16:AA:127:PRO:HG2	16:AA:152:SER:HB3	1.94	0.48
17:AV:53:TYR:HB3	17:AV:72:LEU:HD13	1.95	0.48
18:AY:98:GLU:OE2	18:AY:99:LYS:CA	2.61	0.48
19:AZ:103:HIS:HB3	30:AF:95:HIS:NE2	2.28	0.48
20:Aa:21:ILE:CG2	20:Aa:22:ARG:H	2.27	0.48
20:Aa:95:ARG:H	20:Aa:95:ARG:HG2	1.41	0.48
26:AJ:28:GLU:OE1	26:AJ:40:LYS:CE	2.61	0.48
26:AJ:164:PRO:HB2	26:AJ:165:TYR:CE1	2.48	0.48
28:AC:259:THR:CG2	28:AC:261:PHE:CG	2.94	0.48
29:AG:80:GLY:C	29:AG:81:HIS:CG	2.92	0.48
29:AG:157:VAL:HG11	29:AG:159:ARG:CA	2.43	0.48
29:AG:212:LEU:HA	29:AG:215:LYS:CE	2.44	0.48
30:AF:61:PHE:O	30:AF:62:ARG:C	2.57	0.48
30:AF:63:LYS:CE	30:AF:71:ARG:HH12	2.26	0.48
30:AF:185:SER:HA	30:AF:190:ILE:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:192:LYS:O	30:AF:192:LYS:CD	2.61	0.48
31:AH:29:GLU:HA	31:AH:32:MET:SD	2.54	0.48
34:AQ:50:LYS:NZ	34:AQ:117:ARG:CD	2.48	0.48
36:B2:86:C:H1'	36:B2:170:A:N1	2.29	0.48
36:B2:1159:G:H2'	36:B2:1160:U:O4'	2.13	0.48
36:B2:1859:A:O2'	36:B2:1860:A:H5'	2.13	0.48
38:Cz:82:ILE:HG23	38:Cz:84:HIS:HB2	1.94	0.48
38:Cz:93:LEU:HD23	38:Cz:93:LEU:C	2.38	0.48
39:Cq:18:ILE:HG13	39:Cq:66:ARG:HD3	1.96	0.48
39:Cq:86:VAL:CG1	39:Cq:87:GLY:H	2.26	0.48
39:Cq:130:LEU:O	40:CK:35:LEU:HD21	2.14	0.48
40:CK:50:THR:OG1	40:CK:72:GLU:CB	2.61	0.48
40:CK:123:ARG:HG2	40:CK:125:LEU:N	2.27	0.48
40:CK:163:PRO:HD2	40:CK:163:PRO:O	2.14	0.48
43:CV:25:VAL:O	43:CV:25:VAL:HG23	2.14	0.48
44:CM:57:LEU:CD1	52:CS:154:LEU:CB	2.86	0.48
44:CM:82:ILE:O	44:CM:83:ASN:CG	2.56	0.48
45:Ca:63:LEU:HD22	45:Ca:64:LYS:H	1.79	0.48
46:CN:21:PHE:CZ	82:CG:80:ILE:HD13	2.41	0.48
46:CN:87:HIS:CE1	85:A5:3927:U:H1'	2.49	0.48
48:CD:33:ARG:HE	53:CT:27:LEU:HD11	1.79	0.48
51:CA:54:ARG:HH22	85:A5:3680:U:H5''	1.78	0.48
52:CS:45:TRP:CZ3	52:CS:55:LYS:C	2.91	0.48
54:CP:91:LEU:HD12	54:CP:92:LEU:CA	2.43	0.48
55:CU:90:TYR:CD2	55:CU:94:ASN:ND2	2.81	0.48
59:CZ:73:LYS:HG3	59:CZ:74:VAL:O	2.13	0.48
59:CZ:95:VAL:CG2	59:CZ:117:LYS:HZ2	2.27	0.48
60:Cr:20:ARG:HA	60:Cr:20:ARG:HD3	1.47	0.48
60:Cr:78:VAL:O	60:Cr:81:THR:CA	2.62	0.48
60:Cr:108:MET:O	60:Cr:112:ARG:HB2	2.13	0.48
63:CB:111:SER:O	63:CB:112:ASP:O	2.32	0.48
63:CB:199:GLU:O	63:CB:199:GLU:OE1	2.32	0.48
63:CB:264:PHE:CD2	63:CB:265:SER:CA	2.96	0.48
64:CF:94:ARG:HH12	64:CF:98:ILE:HB	1.78	0.48
65:Cc:11:LEU:HA	65:Cc:12:GLU:OE1	2.12	0.48
66:Cd:38:PHE:HB3	66:Cd:78:ARG:HG2	1.95	0.48
66:Cd:89:SER:HG	66:Cd:105:LEU:HG	1.77	0.48
66:Cd:100:ASN:C	66:Cd:102:LEU:H	2.21	0.48
69:Cg:64:LEU:CD2	69:Cg:64:LEU:H	2.26	0.48
69:Cg:85:LYS:O	69:Cg:88:ARG:HG2	2.12	0.48
72:Ck:12:LEU:O	72:Ck:16:ARG:CD	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:5:ARG:CB	74:CC:24:LEU:CG	2.62	0.48
75:Cm:78:ILE:O	75:Cm:78:ILE:HG23	2.12	0.48
76:Cn:21:ARG:HA	76:Cn:21:ARG:HD2	1.62	0.48
77:Cp:27:LYS:HD3	77:Cp:28:LYS:H	1.64	0.48
78:Co:40:ARG:HG3	78:Co:41:TYR:N	2.28	0.48
80:CH:1:MET:O	80:CH:1:MET:CG	2.61	0.48
81:CE:129:GLY:O	85:A5:1282:G:N2	2.47	0.48
81:CE:283:PRO:CA	81:CE:286:LEU:CD1	2.75	0.48
82:CG:46:GLN:CG	82:CG:47:PRO:HD2	2.42	0.48
82:CG:120:LYS:O	82:CG:121:LYS:C	2.56	0.48
82:CG:166:LEU:O	82:CG:167:VAL:HG22	2.12	0.48
85:A5:1300:G:H3'	85:A5:1301:C:C5'	2.44	0.48
87:A8:111:U:O2'	87:A8:112:G:OP2	2.30	0.48
1:Az:24:VAL:HG21	1:Az:32:LYS:CG	2.44	0.48
1:Az:517:LEU:C	1:Az:517:LEU:HD23	2.38	0.48
1:Az:563:GLU:O	1:Az:563:GLU:OE1	2.30	0.48
1:Az:722:ILE:CB	1:Az:723:PRO:HD3	2.36	0.48
2:Ag:48:ASP:C	2:Ag:49:GLU:CG	2.86	0.48
3:AU:68:THR:HB	3:AU:70:CYS:O	2.14	0.48
6:AX:51:VAL:HG22	6:AX:70:VAL:HG11	1.95	0.48
7:AM:50:CYS:CB	7:AM:69:LEU:HD11	2.44	0.48
8:AS:88:LYS:HD3	13:AP:37:TYR:CA	2.44	0.48
10:AN:16:LEU:N	21:Ab:26:GLN:NE2	2.62	0.48
11:AL:12:LYS:CE	33:AI:194:GLU:CD	2.86	0.48
15:AB:25:PHE:HA	15:AB:28:LYS:HD2	1.96	0.48
15:AB:137:LEU:HD21	15:AB:215:VAL:HG11	1.78	0.48
16:AA:89:LYS:HB3	16:AA:202:TYR:CE2	2.48	0.48
16:AA:124:VAL:HG21	16:AA:134:LEU:CD2	2.44	0.48
18:AY:58:PHE:CD1	18:AY:72:PHE:HD2	2.31	0.48
19:AZ:54:THR:O	19:AZ:58:LEU:HG	2.14	0.48
19:AZ:62:VAL:HG13	19:AZ:68:ILE:HD11	1.83	0.48
19:AZ:65:TYR:CD2	19:AZ:68:ILE:CD1	2.96	0.48
20:Aa:77:CYS:O	20:Aa:80:HIS:HB3	2.13	0.48
21:Ab:62:VAL:HG22	21:Ab:63:LEU:N	2.23	0.48
24:Ae:28:LYS:CB	24:Ae:28:LYS:HZ3	2.25	0.48
26:AJ:102:ILE:HG22	26:AJ:106:LEU:CD1	2.35	0.48
27:AE:72:ILE:HD13	27:AE:82:TYR:CD2	2.49	0.48
28:AC:127:PHE:CE2	28:AC:141:VAL:CG2	2.96	0.48
30:AF:36:GLN:O	30:AF:36:GLN:HG2	2.14	0.48
30:AF:151:ILE:O	30:AF:152:TRP:C	2.53	0.48
32:AW:2:VAL:HG23	32:AW:3:ARG:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:9:HIS:O	33:AI:10:LYS:CB	2.61	0.48
33:AI:21:TYR:CZ	36:B2:433:A:H5'	2.49	0.48
33:AI:70:GLU:O	33:AI:71:CYS:HB3	2.14	0.48
33:AI:144:LYS:HG3	36:B2:190:G:C5'	2.43	0.48
36:B2:327:G:H2'	58:CW:117:LYS:HE3	1.95	0.48
38:Cz:49:PHE:CE2	38:Cz:190:LEU:CD2	2.95	0.48
38:Cz:143:ASN:N	38:Cz:143:ASN:HD22	2.11	0.48
39:Cq:246:LYS:NZ	83:Ct:63:VAL:CG1	2.76	0.48
39:Cq:257:TYR:CE1	84:Cv:42:VAL:CB	2.96	0.48
42:CL:62:PRO:CD	42:CL:71:ARG:HH22	2.26	0.48
42:CL:76:PHE:CE2	42:CL:117:LEU:HD21	2.49	0.48
43:CV:93:GLY:HA2	63:CB:73:VAL:HG21	1.89	0.48
43:CV:113:LYS:CG	43:CV:114:GLY:N	2.75	0.48
43:CV:127:ASP:OD2	63:CB:66:LYS:CE	2.62	0.48
45:Ca:125:LYS:HG2	45:Ca:147:VAL:HG23	1.96	0.48
46:CN:85:VAL:HG21	85:A5:44:A:OP2	2.14	0.48
46:CN:140:LYS:HA	46:CN:140:LYS:HD3	1.55	0.48
47:CI:5:PRO:C	47:CI:7:ARG:N	2.54	0.48
49:CQ:151:HIS:CE1	49:CQ:164:LYS:CB	2.69	0.48
50:CR:100:ARG:C	50:CR:104:ARG:HD2	2.38	0.48
51:CA:6:ARG:NH2	51:CA:198:ARG:HG3	2.29	0.48
52:CS:141:ALA:HB2	80:CH:1:MET:CE	2.43	0.48
52:CS:146:HIS:ND1	52:CS:146:HIS:C	2.71	0.48
54:CP:26:PHE:N	54:CP:144:CYS:SG	2.87	0.48
56:CX:46:PHE:CD2	82:CG:58:PRO:CG	2.97	0.48
56:CX:68:ARG:C	56:CX:69:ASN:OD1	2.57	0.48
57:CY:59:ARG:HG3	57:CY:103:LYS:HD2	1.95	0.48
58:CW:90:ILE:O	58:CW:94:ARG:HG3	2.14	0.48
59:CZ:101:PHE:HA	59:CZ:107:LYS:CE	2.44	0.48
63:CB:67:VAL:O	63:CB:70:LYS:HB2	2.13	0.48
63:CB:85:VAL:HG13	63:CB:165:HIS:CD2	2.49	0.48
63:CB:88:GLY:H	63:CB:163:ILE:HG22	1.76	0.48
65:Cc:97:ILE:HG22	65:Cc:98:ASP:CG	2.39	0.48
66:Cd:91:LYS:HD2	66:Cd:92:ARG:H	1.70	0.48
67:Ce:72:SER:OG	67:Ce:74:PHE:HD2	1.87	0.48
68:Cf:51:TYR:OH	68:Cf:68:ARG:HD2	2.14	0.48
74:CC:15:GLY:O	74:CC:16:GLU:CG	2.61	0.48
74:CC:31:PRO:HG2	74:CC:122:TYR:CE1	2.47	0.48
78:Co:103:VAL:HG13	79:CJ:63:ARG:HB3	1.95	0.48
81:CE:172:LEU:CD1	85:A5:4940:C:HO2'	2.24	0.48
81:CE:236:GLU:CD	81:CE:239:LYS:HD3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:96:LEU:HD11	82:CG:189:ARG:HH21	1.58	0.48
82:CG:99:ALA:CA	82:CG:204:PHE:CZ	2.79	0.48
82:CG:174:CYS:HB3	82:CG:179:VAL:O	2.14	0.48
85:A5:432:U:C5	85:A5:3887:C:N3	2.82	0.48
85:A5:457:G:C6	85:A5:700:G:C6	3.02	0.48
85:A5:4051:C:H2'	85:A5:4052:C:C5	2.49	0.48
1:Az:13:MET:CE	1:Az:464:VAL:CG1	2.55	0.48
1:Az:120:ARG:NH1	1:Az:496:VAL:C	2.71	0.48
1:Az:604:MET:HE1	1:Az:702:PHE:CD1	2.48	0.48
1:Az:617:ILE:HG13	1:Az:622:VAL:CG2	2.44	0.48
1:Az:771:PHE:HB3	1:Az:785:LYS:O	2.14	0.48
1:Az:833:GLN:O	1:Az:837:GLU:HG2	2.12	0.48
4:AK:2:LEU:CD1	4:AK:3:MET:N	2.21	0.48
6:AX:58:GLU:CG	6:AX:58:GLU:O	2.62	0.48
8:AS:81:ASP:HA	8:AS:84:LEU:HD12	1.95	0.48
8:AS:85:ASN:HD21	8:AS:98:VAL:N	2.09	0.48
8:AS:126:PHE:HD2	8:AS:127:TRP:CD1	2.32	0.48
10:AN:25:TRP:HB3	21:Ab:83:GLN:HG2	0.75	0.48
10:AN:125:LEU:HD22	10:AN:129:TYR:CZ	2.49	0.48
11:AL:130:GLU:HG2	11:AL:131:CYS:H	1.78	0.48
12:AR:99:ASP:C	12:AR:119:VAL:HG13	2.19	0.48
14:AT:42:HIS:CD2	14:AT:81:GLY:O	2.67	0.48
14:AT:65:TYR:CD2	14:AT:123:LEU:CD1	2.96	0.48
15:AB:53:GLN:O	15:AB:55:THR:N	2.47	0.48
15:AB:147:ASN:C	15:AB:149:GLN:H	2.22	0.48
16:AA:14:ASP:C	16:AA:18:PHE:HD2	2.22	0.48
16:AA:45:GLY:C	16:AA:46:ILE:CG1	2.86	0.48
16:AA:76:VAL:HG12	16:AA:87:VAL:CB	2.44	0.48
16:AA:127:PRO:CG	16:AA:153:PRO:HD2	2.30	0.48
16:AA:184:ARG:HD3	16:AA:192:GLU:HG2	1.96	0.48
19:AZ:99:LEU:HD13	19:AZ:102:LYS:HE2	0.55	0.48
20:Aa:5:ARG:NH2	36:B2:1864:U:C5	2.82	0.48
22:Ac:20:ARG:HH12	36:B2:1679:A:C5'	2.26	0.48
23:AD:29:LEU:HB3	23:AD:34:TYR:HB2	1.94	0.48
26:AJ:98:LEU:O	28:AC:200:ARG:HB3	2.14	0.48
27:AE:125:LYS:CB	27:AE:226:PHE:CE1	2.96	0.48
28:AC:63:VAL:CG2	28:AC:90:GLU:OE2	2.61	0.48
28:AC:70:VAL:CA	28:AC:97:PHE:CZ	2.96	0.48
28:AC:109:ILE:O	28:AC:109:ILE:HG22	2.13	0.48
28:AC:125:LYS:CE	28:AC:141:VAL:CG1	2.82	0.48
28:AC:270:THR:CG2	28:AC:271:ASP:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:68:LEU:C	29:AG:69:THR:HG1	2.13	0.48
29:AG:122:PRO:HD2	29:AG:123:GLY:H	1.78	0.48
29:AG:187:HIS:O	29:AG:191:ARG:HG2	2.14	0.48
29:AG:226:GLU:O	29:AG:230:LYS:HG2	2.14	0.48
33:AI:123:ARG:HD3	33:AI:123:ARG:O	2.14	0.48
35:Ah:143:GLU:OE1	37:BC:28:G:H4'	2.14	0.48
36:B2:338:G:C5	36:B2:339:A:C5	3.02	0.48
36:B2:839:C:H2'	36:B2:841:G:O4'	2.13	0.48
38:Cz:111:LEU:HG	38:Cz:143:ASN:HB2	1.96	0.48
39:Cq:20:LEU:CD1	39:Cq:54:LEU:CD2	2.71	0.48
39:Cq:34:ASN:OD1	39:Cq:34:ASN:C	2.57	0.48
39:Cq:242:ILE:HG22	39:Cq:246:LYS:HE3	1.92	0.48
42:CL:141:ALA:O	42:CL:147:ALA:HB2	2.13	0.48
43:CV:16:ILE:HD11	43:CV:57:VAL:H	1.78	0.48
43:CV:106:VAL:HG13	43:CV:111:GLU:C	2.39	0.48
46:CN:56:LYS:HG2	46:CN:59:TYR:CD2	2.49	0.48
47:CI:199:TYR:C	47:CI:201:PRO:N	2.70	0.48
48:CD:118:ILE:HG22	48:CD:135:ILE:HD12	1.95	0.48
49:CQ:64:SER:HB2	49:CQ:92:VAL:CG2	2.44	0.48
52:CS:2:LYS:C	52:CS:4:SER:H	2.22	0.48
52:CS:3:ALA:O	85:A5:2062:C:H5''	2.14	0.48
54:CP:115:GLU:CD	54:CP:151:THR:HB	2.39	0.48
55:CU:48:LYS:HG2	55:CU:52:LYS:N	2.27	0.48
56:CX:42:THR:HA	82:CG:51:LEU:CG	2.28	0.48
56:CX:52:LEU:HD11	56:CX:54:LEU:HD23	1.87	0.48
58:CW:87:LEU:N	58:CW:90:ILE:HG13	2.29	0.48
60:Cr:20:ARG:CB	60:Cr:25:TYR:HE2	2.27	0.48
60:Cr:43:LEU:CG	60:Cr:43:LEU:O	2.53	0.48
63:CB:133:TYR:CE1	63:CB:136:LYS:HD2	2.46	0.48
63:CB:203:GLN:NE2	63:CB:203:GLN:HA	2.29	0.48
66:Cd:25:TYR:CE2	66:Cd:56:GLU:OE1	2.67	0.48
66:Cd:33:ILE:HG22	66:Cd:41:ARG:CZ	2.44	0.48
67:Ce:3:ALA:O	67:Ce:4:LEU:C	2.55	0.48
68:Cf:102:ARG:HB3	68:Cf:104:MET:HE1	1.94	0.48
69:Cg:5:LEU:HD12	69:Cg:5:LEU:H	1.79	0.48
74:CC:109:ARG:HG3	74:CC:111:TRP:CZ3	2.49	0.48
74:CC:311:ARG:O	74:CC:312:ARG:CD	2.62	0.48
77:Cp:29:ILE:HG21	77:Cp:69:TRP:NE1	2.27	0.48
79:CJ:128:LEU:HD12	79:CJ:128:LEU:O	2.13	0.48
80:CH:161:ILE:HG23	80:CH:162:GLN:N	2.29	0.48
80:CH:183:GLU:C	80:CH:183:GLU:CD	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:183:GLU:OE2	80:CH:184:LYS:O	2.31	0.48
81:CE:172:LEU:HD22	85:A5:4941:G:C8	2.49	0.48
82:CG:35:ARG:CA	82:CG:36:PRO:CD	2.92	0.48
82:CG:191:GLY:N	82:CG:199:CYS:CB	2.76	0.48
85:A5:2273:G:H2'	85:A5:2274:C:C6	2.49	0.48
85:A5:4744:A:C2	85:A5:4956:A:N1	2.82	0.48
1:Az:165:LEU:N	1:Az:165:LEU:HD22	2.29	0.48
1:Az:205:ILE:C	1:Az:206:ASP:CG	2.81	0.48
1:Az:444:LEU:HD12	1:Az:444:LEU:N	2.29	0.48
1:Az:568:ILE:CG2	1:Az:569:PRO:N	2.77	0.48
1:Az:825:PHE:N	1:Az:825:PHE:HD1	2.10	0.48
2:Ag:4:GLN:CG	2:Ag:268:ASP:OD2	2.62	0.48
2:Ag:273:GLU:CA	2:Ag:274:VAL:HG13	2.43	0.48
5:AO:44:VAL:HG13	5:AO:93:LEU:HD22	1.96	0.48
5:AO:136:PRO:HB3	36:B2:944:A:H1'	1.95	0.48
7:AM:44:LYS:C	7:AM:46:GLN:N	2.69	0.48
7:AM:104:VAL:HG22	7:AM:105:GLY:N	2.28	0.48
7:AM:124:ILE:CB	7:AM:127:TYR:HE2	2.26	0.48
8:AS:88:LYS:HD3	13:AP:37:TYR:CB	2.44	0.48
10:AN:116:ILE:O	10:AN:119:GLU:HG3	2.12	0.48
12:AR:1:MET:HA	12:AR:1:MET:CG	2.38	0.48
12:AR:21:TYR:HB2	12:AR:71:ILE:HD13	0.64	0.48
13:AP:33:LEU:HD21	13:AP:87:PRO:CD	1.90	0.48
13:AP:62:LYS:HA	13:AP:65:LYS:HE2	1.96	0.48
13:AP:68:PRO:HB2	13:AP:69:PRO:HD3	1.70	0.48
14:AT:33:TRP:CD1	14:AT:34:VAL:N	2.82	0.48
15:AB:49:VAL:CG1	15:AB:50:THR:N	2.77	0.48
16:AA:58:LEU:HD23	16:AA:58:LEU:O	2.13	0.48
23:AD:196:GLY:C	23:AD:199:GLY:CA	2.87	0.48
25:Af:108:VAL:HG21	25:Af:114:ILE:CG2	2.29	0.48
26:AJ:78:LEU:HD13	26:AJ:92:MET:C	2.38	0.48
27:AE:19:MET:HE3	36:B2:846:G:H2'	1.78	0.48
27:AE:185:GLY:CA	27:AE:189:LEU:HD13	2.43	0.48
29:AG:16:ILE:HD12	29:AG:45:TRP:CZ2	2.42	0.48
31:AH:37:LYS:O	31:AH:38:ALA:CB	2.61	0.48
34:AQ:130:LYS:HA	34:AQ:137:ALA:HA	1.95	0.48
38:Cz:29:LEU:HD12	38:Cz:171:HIS:CG	2.49	0.48
38:Cz:48:ARG:HG3	38:Cz:159:MET:HE3	1.95	0.48
39:Cq:136:SER:O	39:Cq:137:PHE:O	2.31	0.48
39:Cq:221:ASN:CB	84:Cu:55:ILE:HG21	2.42	0.48
40:CK:39:PRO:HA	40:CK:40:LYS:CE	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:48:TYR:N	49:CQ:156:PRO:HG3	2.16	0.48
46:CN:198:LEU:HD22	46:CN:198:LEU:HA	1.48	0.48
47:CI:91:LEU:CD1	47:CI:135:ILE:CG1	2.83	0.48
48:CD:61:ILE:HG12	48:CD:79:TYR:HE1	1.77	0.48
49:CQ:67:ILE:HD12	49:CQ:96:PRO:CD	2.43	0.48
50:CR:75:HIS:CG	50:CR:80:LYS:HZ2	2.31	0.48
50:CR:116:ASP:O	50:CR:117:ARG:C	2.56	0.48
52:CS:98:ARG:CD	52:CS:145:PHE:CB	2.60	0.48
54:CP:71:ALA:HB1	54:CP:74:LYS:NZ	2.29	0.48
56:CX:129:ARG:O	73:CI:10:LYS:NZ	2.46	0.48
57:CY:32:SER:OG	57:CY:106:ILE:CG1	2.60	0.48
57:CY:63:LYS:O	57:CY:63:LYS:CG	2.53	0.48
59:CZ:6:LYS:CB	59:CZ:7:PRO:CD	2.92	0.48
59:CZ:88:ASP:OD2	59:CZ:90:PRO:HG3	2.13	0.48
60:Cr:32:LEU:HB3	60:Cr:112:ARG:NH1	2.28	0.48
60:Cr:59:GLY:O	60:Cr:87:ARG:CB	2.61	0.48
60:Cr:68:SER:O	85:A5:480:C:H5''	2.14	0.48
60:Cr:77:TYR:HD2	60:Cr:79:ARG:CA	2.25	0.48
61:Ch:7:ARG:CG	61:Ch:8:ASP:N	2.77	0.48
62:Cb:25:ARG:C	62:Cb:26:SER:OG	2.57	0.48
63:CB:77:THR:CG2	63:CB:335:GLY:O	2.62	0.48
63:CB:397:ILE:CG2	63:CB:398:ALA:H	2.06	0.48
69:Cg:57:ARG:CZ	69:Cg:59:VAL:CG2	2.89	0.48
70:CI:11:LEU:HD13	70:CI:12:ASN:HD21	1.79	0.48
70:CI:45:ARG:HD3	70:CI:45:ARG:O	2.14	0.48
74:CC:47:ASN:O	74:CC:112:HIS:HE1	1.96	0.48
79:CJ:35:ARG:CD	79:CJ:123:ILE:O	2.54	0.48
80:CH:59:LYS:HD2	80:CH:62:GLY:HA3	1.96	0.48
80:CH:129:ARG:CD	80:CH:153:LEU:HD22	2.44	0.48
81:CE:100:LYS:O	81:CE:101:ASN:CB	2.60	0.48
81:CE:109:LEU:C	81:CE:110:ARG:HG3	2.39	0.48
81:CE:153:LEU:O	81:CE:158:ARG:HD2	2.13	0.48
82:CG:146:LEU:HD12	82:CG:147:VAL:CG2	2.41	0.48
83:Cs:17:HIS:HE2	83:Cs:23:VAL:HG21	1.71	0.48
85:A5:4767:C:H2'	85:A5:4768:G:C8	2.49	0.48
1:Az:126:LEU:CD1	1:Az:353:MET:CE	2.90	0.47
1:Az:198:GLY:N	1:Az:201:GLY:HA2	2.21	0.47
2:Ag:38:LYS:HB2	2:Ag:38:LYS:HE2	1.47	0.47
2:Ag:280:LYS:HZ2	2:Ag:280:LYS:HG3	1.53	0.47
2:Ag:298:LEU:CD1	2:Ag:298:LEU:C	2.86	0.47
3:AU:107:GLU:OE2	23:AD:40:ARG:CD	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:17:LYS:HZ3	35:Ah:290:LEU:CD1	2.27	0.47
5:AO:17:LEU:CD2	5:AO:18:GLY:H	2.27	0.47
5:AO:41:PHE:CD1	5:AO:57:THR:HG21	2.46	0.47
6:AX:3:LYS:C	6:AX:4:CYS:O	2.57	0.47
8:AS:141:ARG:HD2	36:B2:1523:C:C5	2.49	0.47
9:Ad:36:LEU:HG	23:AD:12:VAL:CG1	2.44	0.47
13:AP:44:ARG:CZ	13:AP:82:ASP:O	2.62	0.47
16:AA:12:GLU:O	16:AA:16:LEU:HG	2.14	0.47
16:AA:43:SER:C	16:AA:44:ASP:CG	2.77	0.47
16:AA:106:GLY:HA3	16:AA:113:GLN:NE2	2.29	0.47
17:AV:11:LEU:HD12	17:AV:12:TYR:N	2.29	0.47
17:AV:68:SER:O	17:AV:72:LEU:HG	2.13	0.47
22:Ac:38:THR:C	22:Ac:40:ARG:H	2.22	0.47
25:Af:103:LEU:HD22	25:Af:105:TYR:O	2.08	0.47
25:Af:148:TYR:N	25:Af:148:TYR:HD1	2.05	0.47
28:AC:163:VAL:CB	28:AC:164:PRO:HD3	2.43	0.47
31:AH:65:PRO:C	31:AH:67:PRO:CD	2.86	0.47
33:AI:191:GLU:O	33:AI:195:LEU:CB	2.62	0.47
34:AQ:16:LYS:CE	36:B2:1648:G:O6	2.62	0.47
35:Ah:146:GLY:O	35:Ah:147:GLU:C	2.57	0.47
35:Ah:158:ILE:CG2	35:Ah:158:ILE:O	2.62	0.47
36:B2:1650:A:C2	36:B2:1651:A:H1'	2.49	0.47
38:Cz:124:LEU:HD13	38:Cz:128:LEU:CD1	2.44	0.47
39:Cq:168:GLY:H	39:Cq:171:GLU:CG	2.26	0.47
39:Cq:194:ASP:O	39:Cq:197:SER:OG	2.31	0.47
39:Cq:233:THR:HA	84:Cu:1:MET:HB2	1.95	0.47
39:Cq:277:ALA:CA	39:Cq:280:PRO:CG	2.91	0.47
40:CK:80:LEU:HD23	40:CK:83:LYS:NZ	2.29	0.47
40:CK:92:ARG:CA	40:CK:95:GLN:CD	2.83	0.47
40:CK:116:MET:HG3	40:CK:117:ARG:NH2	2.29	0.47
41:CO:12:ARG:HB3	41:CO:37:ARG:CD	2.44	0.47
41:CO:195:VAL:HG13	44:CM:115:ALA:O	2.14	0.47
42:CL:17:ASP:O	42:CL:21:ARG:NH2	2.47	0.47
44:CM:31:ILE:C	52:CS:145:PHE:CE1	2.92	0.47
46:CN:19:MET:O	46:CN:23:LEU:HG	2.14	0.47
47:CI:175:LYS:CA	47:CI:176:PHE:CG	2.96	0.47
48:CD:197:LYS:O	48:CD:202:GLN:HB2	2.14	0.47
49:CQ:27:LEU:HD22	74:CC:289:LEU:CG	2.43	0.47
50:CR:68:LEU:HD12	50:CR:68:LEU:C	2.34	0.47
50:CR:75:HIS:CG	50:CR:80:LYS:NZ	2.82	0.47
50:CR:123:LEU:CD1	50:CR:138:LEU:CD2	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:118:GLU:OE1	51:CA:119:LYS:HG3	2.12	0.47
52:CS:84:TYR:CD2	52:CS:85:ASP:N	2.82	0.47
53:CT:15:PHE:CD1	53:CT:52:MET:HE1	2.49	0.47
53:CT:126:VAL:HG12	53:CT:128:LEU:CD2	2.44	0.47
56:CX:76:ILE:O	56:CX:100:VAL:HG13	2.14	0.47
57:CY:81:TYR:CD1	57:CY:96:HIS:HB2	2.49	0.47
60:Cr:25:TYR:CE2	67:Ce:77:PHE:CE1	3.01	0.47
63:CB:17:LEU:HB3	63:CB:18:PRO:CA	2.39	0.47
63:CB:116:ARG:HD3	63:CB:122:TRP:CD2	2.48	0.47
64:CF:93:ILE:HD13	64:CF:247:MET:SD	2.54	0.47
65:Cc:35:LEU:HD11	65:Cc:63:TYR:CD2	2.49	0.47
66:Cd:91:LYS:CD	66:Cd:92:ARG:N	2.49	0.47
68:Cf:57:THR:HB	68:Cf:58:VAL:HA	1.96	0.47
69:Cg:69:LYS:CG	69:Cg:73:HIS:CE1	2.82	0.47
72:Ck:38:CYS:HG	72:Ck:43:TYR:HE2	1.53	0.47
73:Cl:23:ILE:CD1	73:Cl:38:ASN:N	2.77	0.47
75:Cm:114:LYS:HG2	75:Cm:115:CYS:N	2.29	0.47
77:Cp:27:LYS:HD3	77:Cp:28:LYS:CA	2.40	0.47
78:Co:14:LYS:HB3	78:Co:77:CYS:CB	2.44	0.47
80:CH:28:LYS:HA	80:CH:33:THR:HG22	1.95	0.47
82:CG:121:LYS:O	82:CG:121:LYS:HD3	2.13	0.47
82:CG:138:ALA:O	82:CG:143:VAL:CG2	2.58	0.47
83:Cs:43:TRP:C	83:Cs:47:PHE:HD2	2.07	0.47
85:A5:1071:C:H4'	85:A5:1072:C:OP2	2.14	0.47
85:A5:1794:A:H5''	85:A5:4214:A:H61	1.79	0.47
85:A5:4467:A:H61	85:A5:4490:C:H42	1.62	0.47
1:Az:402:VAL:HG22	1:Az:403:PRO:CG	2.43	0.47
1:Az:477:GLN:HG2	1:Az:478:PHE:CD2	2.50	0.47
1:Az:669:VAL:O	1:Az:671:TYR:N	2.46	0.47
2:Ag:45:LEU:HD22	2:Ag:52:TYR:CD2	2.49	0.47
2:Ag:200:VAL:CG1	2:Ag:204:GLY:HA2	2.44	0.47
2:Ag:298:LEU:HG	2:Ag:310:TRP:HB2	1.92	0.47
5:AO:44:VAL:HG11	5:AO:93:LEU:HD21	1.94	0.47
6:AX:10:ALA:HB2	11:AL:101:ARG:HB2	1.95	0.47
6:AX:41:PHE:CZ	6:AX:120:PHE:CD1	3.02	0.47
6:AX:129:SER:HG	6:AX:132:ALA:HB3	1.79	0.47
8:AS:52:LEU:O	8:AS:54:LYS:N	2.46	0.47
10:AN:84:LEU:HD12	10:AN:84:LEU:O	2.14	0.47
12:AR:5:ARG:HB2	12:AR:10:LYS:CE	2.35	0.47
17:AV:12:TYR:HE1	17:AV:14:PRO:HG3	1.79	0.47
18:AY:44:LEU:HD12	18:AY:48:TYR:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:104:ARG:HA	18:AY:107:ARG:NH2	2.29	0.47
19:AZ:44:LEU:HD11	19:AZ:46:ASN:ND2	2.29	0.47
22:Ac:60:GLU:CD	22:Ac:60:GLU:N	2.64	0.47
23:AD:58:VAL:HG21	23:AD:88:ALA:CB	2.44	0.47
23:AD:137:VAL:HG22	23:AD:151:LYS:HG3	1.95	0.47
26:AJ:110:LEU:CB	26:AJ:130:ILE:HD13	2.43	0.47
26:AJ:151:LEU:C	26:AJ:153:SER:H	2.20	0.47
27:AE:124:CYS:HB3	27:AE:141:THR:CB	2.36	0.47
27:AE:212:ASP:C	27:AE:214:ASN:H	2.22	0.47
28:AC:69:LEU:N	28:AC:273:LEU:CD2	2.77	0.47
28:AC:98:LEU:C	28:AC:100:ALA:H	2.22	0.47
28:AC:236:PHE:CD2	28:AC:236:PHE:C	2.90	0.47
28:AC:259:THR:HG22	28:AC:261:PHE:CB	2.45	0.47
31:AH:34:SER:O	31:AH:35:ASP:OD1	2.32	0.47
34:AQ:42:ILE:CB	34:AQ:51:LEU:HD21	2.44	0.47
36:B2:1351:G:H2'	36:B2:1352:G:H8	1.79	0.47
38:Cz:34:LEU:HD23	38:Cz:34:LEU:C	2.38	0.47
38:Cz:54:ARG:HA	38:Cz:154:THR:HA	1.95	0.47
38:Cz:111:LEU:CD2	38:Cz:112:ALA:N	2.77	0.47
38:Cz:121:PRO:CD	38:Cz:134:PHE:HE1	2.27	0.47
39:Cq:45:MET:C	39:Cq:47:LEU:H	2.22	0.47
39:Cq:80:PRO:CD	39:Cq:81:HIS:ND1	2.77	0.47
41:CO:38:CYS:O	41:CO:41:ILE:CG2	2.55	0.47
42:CL:178:ALA:HB1	45:Ca:129:PHE:CZ	2.49	0.47
45:Ca:12:ARG:HH22	85:A5:1338:G:P	2.37	0.47
45:Ca:24:LYS:CG	45:Ca:25:HIS:N	2.69	0.47
46:CN:187:SER:O	46:CN:188:ARG:CB	2.55	0.47
48:CD:58:ARG:HH11	48:CD:93:THR:HB	1.75	0.47
49:CQ:58:ARG:N	49:CQ:59:PRO:HD3	2.30	0.47
50:CR:130:ASN:HD22	50:CR:131:VAL:H	1.62	0.47
51:CA:30:ARG:NH2	51:CA:41:ILE:HG21	2.29	0.47
51:CA:80:GLU:OE2	77:Cp:73:THR:HB	2.13	0.47
54:CP:10:ASN:HA	54:CP:11:PRO:HD2	1.56	0.47
54:CP:16:LYS:HE2	54:CP:149:ILE:HG23	1.95	0.47
55:CU:48:LYS:HE2	55:CU:51:GLY:O	2.13	0.47
56:CX:39:LYS:CD	56:CX:40:ILE:O	2.59	0.47
59:CZ:113:GLU:O	59:CZ:117:LYS:HG3	2.14	0.47
60:Cr:27:THR:O	60:Cr:29:PRO:CD	2.62	0.47
60:Cr:41:ASN:O	60:Cr:42:GLY:O	2.32	0.47
60:Cr:77:TYR:CE2	60:Cr:79:ARG:HA	2.49	0.47
60:Cr:78:VAL:HG23	60:Cr:82:ILE:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:Ch:9:LEU:CD1	61:Ch:56:ARG:NH1	2.76	0.47
63:CB:3:HIS:O	63:CB:4:ARG:C	2.57	0.47
63:CB:141:ASP:C	63:CB:143:LYS:N	2.71	0.47
63:CB:298:LEU:O	63:CB:300:LYS:HE2	2.14	0.47
63:CB:305:THR:HG22	63:CB:308:ASP:H	1.78	0.47
67:Ce:47:ARG:O	67:Ce:48:ARG:HB2	2.14	0.47
74:CC:6:PRO:CA	74:CC:24:LEU:CD2	2.92	0.47
81:CE:222:LEU:CD2	81:CE:238:GLU:OE1	2.47	0.47
82:CG:21:LYS:C	82:CG:24:ALA:HB3	2.24	0.47
82:CG:229:ARG:O	82:CG:229:ARG:CG	2.62	0.47
83:Cs:61:CYS:C	83:Cs:63:VAL:HG23	2.39	0.47
83:Ct:15:ILE:HG22	84:Cv:30:VAL:HG21	1.96	0.47
85:A5:126:C:N4	85:A5:127:G:C6	2.82	0.47
85:A5:1719:A:H2'	85:A5:1720:C:H5''	1.96	0.47
85:A5:1921:C:H4'	85:A5:1922:G:OP2	2.14	0.47
86:A7:120:U:H3'	86:A7:121:U:H5'	1.96	0.47
1:Az:396:MET:HE1	1:Az:472:LEU:HD12	1.85	0.47
1:Az:430:MET:HE2	1:Az:486:THR:HG23	1.86	0.47
1:Az:531:ASP:O	1:Az:534:VAL:HG12	2.13	0.47
1:Az:643:VAL:HG22	1:Az:647:ARG:HD2	1.95	0.47
1:Az:777:ALA:H	1:Az:780:PRO:HB2	1.79	0.47
1:Az:791:ASN:HA	1:Az:794:PHE:CE1	2.49	0.47
3:Au:44:LYS:HA	3:Au:47:ASN:HA	1.95	0.47
11:AL:22:ARG:CG	33:AI:154:LYS:O	2.61	0.47
11:AL:112:HIS:CB	11:AL:134:LEU:CD1	2.92	0.47
13:AP:75:VAL:HG22	13:AP:93:MET:HB3	1.97	0.47
15:AB:36:PRO:HA	15:AB:231:LEU:CD2	2.43	0.47
15:AB:54:GLY:C	15:AB:56:LYS:H	2.22	0.47
16:AA:75:SER:HA	16:AA:97:THR:O	2.14	0.47
17:AV:57:GLY:O	17:AV:61:ARG:CG	2.61	0.47
22:Ac:32:VAL:HG22	22:Ac:42:ILE:O	2.14	0.47
23:AD:207:HIS:C	23:AD:208:VAL:HG23	2.39	0.47
23:AD:214:LYS:HG3	23:AD:214:LYS:O	2.07	0.47
24:Ae:19:VAL:O	24:Ae:20:ALA:C	2.55	0.47
24:Ae:38:TYR:CD1	26:AJ:29:LEU:C	2.92	0.47
25:Af:144:CYS:O	25:Af:146:LEU:N	2.47	0.47
26:AJ:180:LYS:O	26:AJ:180:LYS:HD3	2.12	0.47
27:AE:48:LEU:CD2	27:AE:70:ILE:CD1	2.81	0.47
27:AE:195:ILE:O	27:AE:196:THR:CB	2.62	0.47
28:AC:256:TRP:HH2	32:AW:44:HIS:O	1.98	0.47
29:AG:44:GLU:H	29:AG:44:GLU:HG3	1.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:59:LYS:HD2	30:AF:62:ARG:HH21	0.66	0.47
31:AH:64:VAL:CG2	31:AH:72:PHE:CE2	2.97	0.47
31:AH:169:LYS:HD2	31:AH:173:PHE:CZ	2.47	0.47
34:AQ:85:ARG:C	34:AQ:88:ILE:HG12	2.39	0.47
34:AQ:113:ILE:CG1	34:AQ:120:LEU:CD1	2.92	0.47
35:Ah:296:ILE:HG23	35:Ah:298:ASN:ND2	2.22	0.47
36:B2:556:U:C4	36:B2:557:U:C5	3.02	0.47
36:B2:1008:A:O2'	36:B2:1009:A:H5'	2.14	0.47
36:B2:1195:A:O2'	36:B2:1196:A:H5'	2.14	0.47
36:B2:1351:G:H2'	36:B2:1352:G:C8	2.49	0.47
36:B2:1617:G:N1	36:B2:1620:A:OP2	2.48	0.47
36:B2:1721:U:C3'	36:B2:1722:G:H5'	2.44	0.47
39:Cq:138:PHE:CE1	39:Cq:178:LEU:HD21	2.49	0.47
39:Cq:180:ILE:C	39:Cq:182:PRO:HD3	2.39	0.47
39:Cq:255:THR:HG21	84:Cv:46:LEU:HA	1.95	0.47
40:CK:104:ILE:O	40:CK:105:THR:C	2.55	0.47
42:CL:89:LYS:HD2	61:Ch:114:TYR:CG	2.49	0.47
45:Ca:128:PHE:CZ	70:Ci:8:ALA:HB1	2.49	0.47
48:CD:252:VAL:HG12	48:CD:254:GLU:OE1	2.13	0.47
49:CQ:89:ASP:O	49:CQ:90:VAL:C	2.54	0.47
49:CQ:93:GLN:H	49:CQ:93:GLN:NE2	2.12	0.47
50:CR:103:ARG:HD2	50:CR:124:TYR:CZ	2.48	0.47
51:CA:18:ALA:HA	51:CA:193:ARG:CG	2.40	0.47
51:CA:116:LEU:HD11	51:CA:126:LEU:CG	2.44	0.47
51:CA:144:LYS:CE	51:CA:160:SER:HB2	2.44	0.47
53:CT:125:TRP:CD1	53:CT:126:VAL:HB	2.36	0.47
55:CU:113:ARG:HG3	55:CU:113:ARG:O	2.14	0.47
56:CX:52:LEU:CD1	56:CX:53:ARG:N	2.71	0.47
56:CX:52:LEU:HD12	56:CX:54:LEU:H	1.69	0.47
56:CX:155:ILE:HD12	56:CX:156:ILE:N	2.28	0.47
57:CY:22:PRO:HG3	57:CY:25:ILE:CD1	2.38	0.47
60:Cr:33:LYS:C	60:Cr:35:ARG:N	2.72	0.47
60:Cr:51:VAL:HG13	60:Cr:117:ILE:HG13	1.83	0.47
61:Ch:121:VAL:HG13	61:Ch:122:LYS:H	1.78	0.47
63:CB:32:PHE:CB	63:CB:33:PRO:HD2	2.45	0.47
63:CB:153:MET:HE2	63:CB:194:LEU:HB2	1.96	0.47
64:CF:98:ILE:O	64:CF:98:ILE:HG12	2.14	0.47
64:CF:101:VAL:CG1	64:CF:106:ARG:CG	2.91	0.47
65:Cc:74:TYR:CE2	65:Cc:81:LEU:CD2	2.97	0.47
67:Ce:22:ARG:NH1	67:Ce:31:ILE:CG1	2.76	0.47
67:Ce:47:ARG:C	67:Ce:48:ARG:HG3	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:18:LEU:HA	68:Cf:18:LEU:HD13	1.30	0.47
68:Cf:23:GLU:O	68:Cf:91:ASN:ND2	2.47	0.47
68:Cf:23:GLU:HB2	68:Cf:91:ASN:HD22	1.78	0.47
69:Cg:26:PRO:C	69:Cg:28:ASN:H	2.20	0.47
72:Ck:3:ARG:HD2	72:Ck:43:TYR:CE1	2.49	0.47
74:CC:5:ARG:HH22	74:CC:26:ALA:HA	1.79	0.47
74:CC:159:GLU:HB3	74:CC:214:ASP:HA	1.95	0.47
74:CC:345:ARG:N	74:CC:345:ARG:CD	2.77	0.47
75:Cm:90:ASN:ND2	80:CH:176:LEU:CD2	2.67	0.47
77:Cp:56:HIS:CE1	77:Cp:63:THR:OG1	2.67	0.47
80:CH:26:ILE:CG2	80:CH:35:ARG:HE	2.27	0.47
80:CH:36:ARG:CD	80:CH:38:PHE:CZ	2.94	0.47
81:CE:35:LYS:O	81:CE:37:PRO:C	2.57	0.47
83:Ct:12:SER:H	84:Cv:9:LEU:HD21	1.74	0.47
84:Cv:3:TYR:CE2	84:Cv:38:ARG:HD3	2.49	0.47
85:A5:2464:C:O2'	85:A5:2465:C:H5'	2.13	0.47
85:A5:4350:C:C6	85:A5:4350:C:OP2	2.67	0.47
1:Az:21:ASN:HD21	1:Az:469:ILE:HD12	1.79	0.47
1:Az:76:SER:C	1:Az:77:LEU:HD12	2.40	0.47
1:Az:120:ARG:HH12	1:Az:495:ARG:HB3	1.78	0.47
1:Az:438:LYS:HB3	1:Az:440:GLU:HG2	1.96	0.47
1:Az:449:ARG:CZ	1:Az:460:PRO:CB	2.93	0.47
1:Az:477:GLN:HG3	1:Az:478:PHE:CZ	2.50	0.47
1:Az:503:PRO:CA	1:Az:548:GLY:C	2.87	0.47
1:Az:538:ILE:HG23	1:Az:538:ILE:O	2.13	0.47
1:Az:546:ILE:CD1	1:Az:561:LEU:HD22	2.44	0.47
1:Az:580:ARG:NH1	1:Az:696:ASN:CG	2.72	0.47
1:Az:594:LYS:HA	1:Az:600:ASN:O	2.14	0.47
1:Az:667:LYS:HB2	1:Az:667:LYS:HZ2	1.71	0.47
1:Az:669:VAL:O	1:Az:672:LEU:N	2.46	0.47
1:Az:749:ILE:CD1	1:Az:759:ILE:HG13	2.42	0.47
1:Az:848:ILE:HG22	1:Az:849:PRO:N	2.15	0.47
2:Ag:150:TRP:HH2	12:AR:33:ARG:CB	1.94	0.47
2:Ag:168:CYS:HB3	2:Ag:198:VAL:HG23	1.93	0.47
5:AO:130:GLU:OE2	15:AB:83:LYS:NZ	2.46	0.47
7:AM:46:GLN:HB3	7:AM:112:LYS:CD	2.44	0.47
11:AL:14:PRO:HB2	11:AL:15:THR:HG23	1.97	0.47
11:AL:78:THR:CG2	11:AL:79:LYS:N	2.77	0.47
11:AL:99:TYR:N	11:AL:99:TYR:CD2	2.80	0.47
12:AR:15:VAL:CG1	23:AD:210:ILE:HD11	2.29	0.47
12:AR:19:LYS:CG	23:AD:212:GLU:HB3	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:17:TYR:CE1	13:AP:18:ARG:HB2	2.49	0.47
13:AP:126:VAL:HG12	13:AP:127:LYS:CA	2.32	0.47
15:AB:53:GLN:O	15:AB:54:GLY:C	2.55	0.47
15:AB:182:LYS:HA	15:AB:182:LYS:HD3	1.62	0.47
16:AA:18:PHE:CE2	16:AA:55:TRP:CZ3	3.02	0.47
16:AA:26:GLY:N	16:AA:47:TYR:O	2.46	0.47
16:AA:59:LEU:CD2	16:AA:181:GLU:CG	2.93	0.47
16:AA:177:MET:CE	16:AA:180:ARG:HH21	1.95	0.47
18:AY:18:LEU:HD21	27:AE:64:ILE:CG1	2.44	0.47
20:Aa:84:VAL:HG12	36:B2:1867:U:C5	2.49	0.47
20:Aa:85:ARG:O	20:Aa:86:ASN:C	2.56	0.47
22:Ac:15:THR:HG21	22:Ac:33:GLU:OE2	2.15	0.47
23:AD:188:ILE:HG22	23:AD:190:LEU:CD2	2.42	0.47
26:AJ:180:LYS:HG3	26:AJ:181:GLY:H	1.78	0.47
27:AE:132:GLY:N	27:AE:136:ILE:O	2.47	0.47
27:AE:164:LEU:HA	27:AE:164:LEU:HD22	1.76	0.47
28:AC:74:LYS:HD2	28:AC:269:PHE:CE1	2.48	0.47
28:AC:190:SER:O	28:AC:228:GLY:HA3	2.14	0.47
29:AG:64:LYS:HD2	29:AG:100:CYS:SG	2.53	0.47
29:AG:77:LEU:HD13	29:AG:84:TYR:HB2	1.96	0.47
31:AH:23:ILE:HD13	31:AH:23:ILE:C	2.40	0.47
31:AH:44:ASN:HB3	31:AH:68:GLN:NE2	2.29	0.47
31:AH:87:PHE:CE2	31:AH:90:LYS:NZ	2.73	0.47
31:AH:190:PRO:HB2	31:AH:191:GLU:HG3	1.96	0.47
32:AW:23:ARG:HG2	32:AW:23:ARG:NH1	2.29	0.47
38:Cz:66:CYS:N	38:Cz:82:ILE:HD11	2.29	0.47
39:Cq:134:LYS:O	39:Cq:135:THR:C	2.55	0.47
39:Cq:141:LEU:N	39:Cq:141:LEU:HD13	2.28	0.47
40:CK:31:LYS:O	40:CK:34:PRO:HG2	2.10	0.47
41:CO:16:LEU:HG	41:CO:42:ASN:O	2.14	0.47
41:CO:77:SER:HB3	41:CO:106:ASP:OD1	2.14	0.47
42:CL:190:ARG:O	42:CL:190:ARG:HD3	2.15	0.47
45:Ca:79:TRP:CH2	45:Ca:92:LYS:HG3	2.49	0.47
48:CD:20:PHE:CE2	48:CD:30:TYR:CZ	2.98	0.47
48:CD:155:THR:HA	48:CD:179:ARG:HD3	1.95	0.47
50:CR:101:ILE:O	50:CR:104:ARG:HD3	2.14	0.47
52:CS:34:ALA:HB1	52:CS:39:VAL:HG21	1.85	0.47
52:CS:160:ARG:NH2	85:A5:1920:C:H5'	2.27	0.47
53:CT:6:GLY:O	53:CT:9:ARG:HB3	2.14	0.47
56:CX:65:ALA:HB1	56:CX:66:PRO:CD	2.44	0.47
57:CY:89:LYS:HE2	57:CY:90:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:4:GLU:HA	58:CW:4:GLU:OE2	2.12	0.47
58:CW:43:LYS:HE3	58:CW:43:LYS:HB2	1.63	0.47
59:CZ:73:LYS:HG2	59:CZ:75:TYR:CD2	2.44	0.47
60:Cr:33:LYS:O	60:Cr:34:ALA:C	2.55	0.47
60:Cr:46:ARG:CG	60:Cr:69:GLY:HA2	2.40	0.47
60:Cr:75:THR:HA	60:Cr:76:SER:CB	2.42	0.47
63:CB:224:LYS:HB2	63:CB:224:LYS:HE2	1.62	0.47
64:CF:150:VAL:O	64:CF:154:ILE:HG12	2.14	0.47
65:Cc:87:LYS:NZ	65:Cc:89:TYR:HE2	2.12	0.47
66:Cd:101:LYS:CD	66:Cd:101:LYS:N	2.46	0.47
74:CC:123:ALA:O	74:CC:126:SER:OG	2.23	0.47
74:CC:162:LYS:HB3	74:CC:162:LYS:HE2	1.76	0.47
74:CC:174:LEU:O	74:CC:175:LYS:CG	2.62	0.47
74:CC:193:LYS:HG3	74:CC:196:MET:CE	2.22	0.47
74:CC:209:ILE:HG21	74:CC:221:PHE:CZ	2.49	0.47
74:CC:286:ASN:C	74:CC:287:THR:CG2	2.75	0.47
78:Co:12:CYS:SG	78:Co:13:LYS:N	2.86	0.47
79:CJ:22:LEU:HD23	79:CJ:130:PHE:CD2	2.48	0.47
80:CH:93:ARG:CD	80:CH:143:GLU:CD	2.86	0.47
80:CH:183:GLU:OE1	80:CH:185:GLY:N	2.47	0.47
81:CE:30:GLY:O	81:CE:31:ASN:CG	2.57	0.47
81:CE:109:LEU:HD12	81:CE:110:ARG:H	1.79	0.47
81:CE:181:LEU:CD2	81:CE:272:ARG:NH2	2.77	0.47
82:CG:250:ILE:HG23	82:CG:251:ALA:N	2.28	0.47
84:Cu:24:LYS:HG3	84:Cu:39:LEU:HD13	1.96	0.47
84:Cv:18:PRO:O	84:Cv:43:ILE:HG12	2.14	0.47
85:A5:1186:U:H2'	85:A5:1187:G:C8	2.50	0.47
85:A5:1719:A:H2'	85:A5:1720:C:C5'	2.43	0.47
85:A5:4072:C:C2'	85:A5:4073:A:H5''	2.42	0.47
1:Az:146:ALA:CA	1:Az:151:ILE:HD12	2.45	0.47
1:Az:170:GLU:HG3	1:Az:171:PRO:HD2	1.96	0.47
1:Az:219:HIS:HB3	1:Az:221:TRP:HD1	1.79	0.47
1:Az:502:SER:O	1:Az:503:PRO:C	2.55	0.47
1:Az:507:VAL:HG22	1:Az:554:LEU:HD21	1.96	0.47
1:Az:625:ARG:HA	1:Az:625:ARG:HD3	1.44	0.47
1:Az:710:HIS:HB3	1:Az:715:HIS:O	2.13	0.47
2:Ag:215:GLN:CD	2:Ag:231:ASP:OD1	2.57	0.47
4:AK:40:VAL:HG21	4:AK:45:VAL:HG23	1.95	0.47
6:AX:28:LYS:HE3	6:AX:32:LEU:HD11	1.96	0.47
10:AN:137:PRO:C	10:AN:138:ASN:CG	2.80	0.47
11:AL:80:MET:HE3	11:AL:120:VAL:CB	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:5:ARG:C	12:AR:10:LYS:CE	2.76	0.47
15:AB:83:LYS:O	15:AB:103:MET:HA	2.14	0.47
15:AB:137:LEU:HD23	15:AB:215:VAL:CA	2.44	0.47
18:AY:93:ARG:HD2	18:AY:93:ARG:C	2.38	0.47
19:AZ:91:LEU:HB3	19:AZ:97:ILE:HG12	1.95	0.47
24:Ae:42:PHE:CE2	26:AJ:29:LEU:HB3	2.48	0.47
28:AC:57:ASP:OD1	28:AC:58:LYS:N	2.46	0.47
30:AF:47:LYS:HD3	30:AF:47:LYS:N	2.30	0.47
31:AH:43:LEU:HD13	31:AH:72:PHE:HE1	1.72	0.47
34:AQ:10:VAL:HG11	34:AQ:94:ALA:HB1	1.96	0.47
34:AQ:41:MET:O	34:AQ:43:GLU:HG3	2.13	0.47
36:B2:1131:G:H5'	36:B2:1131:G:C8	2.48	0.47
38:Cz:24:LYS:HG2	38:Cz:26:ARG:HB2	1.95	0.47
38:Cz:57:SER:HB2	38:Cz:178:GLU:OE1	2.14	0.47
38:Cz:70:ASP:HB2	38:Cz:116:LEU:HD11	1.96	0.47
39:Cq:157:ASP:O	39:Cq:158:VAL:CG2	2.62	0.47
39:Cq:157:ASP:O	39:Cq:158:VAL:HG23	2.14	0.47
39:Cq:257:TYR:HA	84:Cv:45:GLU:CD	2.39	0.47
40:CK:81:ILE:CD1	40:CK:113:ALA:CB	2.93	0.47
41:CO:16:LEU:HD21	41:CO:41:ILE:CD1	2.26	0.47
41:CO:27:VAL:HG12	41:CO:98:ALA:CA	2.42	0.47
41:CO:54:TYR:CE2	41:CO:145:VAL:CB	2.96	0.47
42:CL:163:LYS:HG3	45:Ca:100:ILE:CG2	2.44	0.47
42:CL:167:ARG:CZ	45:Ca:97:ALA:HB3	2.45	0.47
43:CV:58:GLY:CA	43:CV:125:CYS:SG	3.03	0.47
45:Ca:17:HIS:O	45:Ca:17:HIS:CG	2.66	0.47
47:CI:205:PRO:N	47:CI:206:LEU:N	2.62	0.47
48:CD:207:TYR:OH	48:CD:211:LEU:HD11	2.14	0.47
50:CR:93:VAL:O	50:CR:97:ARG:CD	2.62	0.47
50:CR:95:TRP:O	50:CR:96:MET:C	2.57	0.47
52:CS:161:ARG:O	52:CS:162:GLN:C	2.37	0.47
56:CX:89:LYS:O	56:CX:93:ASN:HB2	2.13	0.47
57:CY:30:MET:SD	57:CY:80:ILE:HG22	2.54	0.47
61:Ch:73:TYR:O	61:Ch:74:LYS:C	2.56	0.47
62:Cb:7:HIS:O	62:Cb:8:THR:HB	2.14	0.47
63:CB:231:VAL:HG23	63:CB:267:ALA:HB1	1.95	0.47
63:CB:241:PRO:O	63:CB:244:THR:HG23	2.14	0.47
63:CB:254:ILE:CD1	85:A5:3897:G:H4'	2.43	0.47
63:CB:291:TYR:CD1	63:CB:292:LEU:O	2.66	0.47
65:Cc:37:MET:HB3	65:Cc:43:ALA:HB2	1.96	0.47
66:Cd:111:VAL:HG12	66:Cd:112:THR:OG1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:55:MET:HB3	67:Ce:56:PRO:HD2	1.96	0.47
70:Ci:24:PRO:O	70:Ci:25:ARG:HD2	2.15	0.47
72:Ck:31:ASN:HA	72:Ck:48:THR:HA	1.96	0.47
74:CC:170:LEU:CD1	74:CC:171:LEU:N	2.71	0.47
74:CC:253:THR:C	74:CC:256:ALA:H	2.23	0.47
74:CC:285:ILE:O	74:CC:286:ASN:HB2	2.15	0.47
77:Cp:49:ARG:HB2	77:Cp:55:TRP:CZ2	2.49	0.47
77:Cp:49:ARG:HB3	77:Cp:55:TRP:CZ3	2.49	0.47
79:CJ:146:ARG:HH22	79:CJ:147:ARG:NE	2.12	0.47
81:CE:106:VAL:HG21	81:CE:107:VAL:CG1	2.33	0.47
81:CE:219:LYS:CD	85:A5:4939:C:H6	2.27	0.47
81:CE:285:LYS:O	81:CE:287:VAL:N	2.47	0.47
82:CG:56:LYS:O	82:CG:58:PRO:HD3	2.14	0.47
82:CG:174:CYS:CB	82:CG:181:TYR:CD2	2.97	0.47
82:CG:207:VAL:CG1	82:CG:215:LEU:HD11	2.45	0.47
83:Cs:23:VAL:HG13	83:Cs:28:ILE:HD11	1.96	0.47
85:A5:942:G:H2'	85:A5:943:A:O4'	2.15	0.47
85:A5:958:G:O4'	85:A5:958:G:N9	2.42	0.47
85:A5:1429:C:H6	85:A5:1429:C:H5''	1.78	0.47
85:A5:2465:C:C4	85:A5:2466:G:C6	3.02	0.47
85:A5:4340:U:C5	85:A5:4341:C:C5	3.02	0.47
85:A5:4462:C:H2'	85:A5:4463:U:C6	2.50	0.47
87:A8:128:C:C5	87:A8:129:C:C4	3.03	0.47
1:Az:33:SER:HB3	1:Az:57:THR:HG21	1.95	0.47
1:Az:41:CYS:SG	1:Az:49:ALA:HB1	2.54	0.47
1:Az:172:GLU:O	1:Az:176:GLN:HG2	2.13	0.47
1:Az:231:MET:SD	1:Az:343:TRP:CH2	2.91	0.47
1:Az:385:ILE:CD1	1:Az:417:PHE:HB3	2.42	0.47
1:Az:616:ASP:OD2	1:Az:622:VAL:HG13	2.15	0.47
1:Az:779:THR:N	40:CK:31:LYS:HG2	2.28	0.47
1:Az:787:TYR:CE1	1:Az:816:HIS:HE1	2.32	0.47
2:Ag:258:ILE:HG13	2:Ag:258:ILE:O	2.13	0.47
2:Ag:284:PRO:CB	2:Ag:304:ASP:N	2.78	0.47
2:Ag:293:ALA:HB3	2:Ag:294:ASP:OD1	2.15	0.47
4:AK:30:PRO:C	4:AK:31:LYS:CG	2.55	0.47
4:AK:84:HIS:CE1	4:AK:85:LEU:CA	2.85	0.47
5:AO:52:THR:HG21	36:B2:953:C:O4'	2.15	0.47
7:AM:35:ILE:CG1	7:AM:61:TYR:CE2	2.98	0.47
8:AS:80:PRO:HG2	8:AS:82:TRP:CE2	2.48	0.47
10:AN:16:LEU:HD23	10:AN:17:PRO:CD	2.45	0.47
10:AN:91:LEU:HD21	36:B2:925:G:C5'	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:14:PRO:C	11:AL:15:THR:HG23	2.40	0.47
11:AL:31:GLU:OE1	11:AL:31:GLU:N	2.41	0.47
12:AR:91:LEU:H	12:AR:92:ASP:CA	2.15	0.47
13:AP:18:ARG:HD2	13:AP:37:TYR:CB	2.41	0.47
14:AT:5:THR:HG22	14:AT:8:ASP:CG	2.39	0.47
14:AT:33:TRP:O	14:AT:34:VAL:HB	2.14	0.47
14:AT:40:ALA:O	14:AT:43:LYS:CG	2.62	0.47
15:AB:149:GLN:HE21	15:AB:151:ARG:CG	2.19	0.47
18:AY:55:ILE:CA	18:AY:75:ILE:HG12	2.44	0.47
18:AY:56:PHE:HB3	18:AY:58:PHE:CE2	2.48	0.47
20:Aa:28:ARG:HD3	20:Aa:74:CYS:CB	2.45	0.47
22:Ac:60:GLU:CG	30:AF:204:ARG:HD2	2.44	0.47
23:AD:48:ILE:CG2	23:AD:86:LEU:CG	2.82	0.47
25:Af:139:HIS:CB	25:Af:150:PHE:O	2.63	0.47
26:AJ:93:LYS:HE3	26:AJ:93:LYS:CA	2.45	0.47
26:AJ:165:TYR:CE1	36:B2:561:A:H5'	2.50	0.47
27:AE:48:LEU:HD11	27:AE:70:ILE:HD13	1.94	0.47
28:AC:174:ILE:O	28:AC:174:ILE:HG23	2.15	0.47
28:AC:259:THR:O	28:AC:261:PHE:N	2.47	0.47
29:AG:215:LYS:HA	29:AG:218:LYS:HG3	1.97	0.47
31:AH:9:VAL:O	31:AH:45:ILE:O	2.33	0.47
31:AH:37:LYS:HD2	31:AH:41:ARG:HD3	1.97	0.47
31:AH:117:PRO:C	31:AH:119:SER:H	2.20	0.47
31:AH:120:ARG:NH1	36:B2:913:A:C8	2.82	0.47
31:AH:126:HIS:HA	31:AH:129:ILE:HD12	1.96	0.47
34:AQ:88:ILE:HG13	34:AQ:89:SER:H	1.78	0.47
34:AQ:127:CYS:HA	36:B2:1648:G:C2'	2.40	0.47
36:B2:217:A:H61	36:B2:304:C:H42	1.60	0.47
36:B2:1287:A:C8	36:B2:1288:U:C6	3.03	0.47
38:Cz:185:LEU:O	38:Cz:189:PHE:HD1	1.97	0.47
39:Cq:57:LYS:C	39:Cq:59:THR:N	2.71	0.47
39:Cq:78:LEU:C	39:Cq:80:PRO:CD	2.88	0.47
39:Cq:84:GLY:O	39:Cq:86:VAL:HG23	2.14	0.47
39:Cq:228:GLN:OE1	84:Cu:54:VAL:C	2.48	0.47
41:CO:26:GLN:HE22	52:CS:166:ARG:HB3	1.79	0.47
46:CN:42:PRO:N	46:CN:61:ILE:CD1	2.76	0.47
48:CD:142:PHE:HB3	48:CD:171:LEU:HD23	1.84	0.47
49:CQ:150:ARG:C	49:CQ:164:LYS:HB2	2.40	0.47
50:CR:4:LEU:CD1	50:CR:33:ALA:N	2.77	0.47
50:CR:37:SER:OG	50:CR:40:GLN:HB2	2.15	0.47
54:CP:82:ARG:O	54:CP:84:PRO:HD3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:119:GLN:O	55:CU:120:ASP:HB2	2.15	0.47
56:CX:52:LEU:CD1	56:CX:52:LEU:C	2.71	0.47
56:CX:89:LYS:CD	56:CX:95:THR:OG1	2.63	0.47
57:CY:106:ILE:HG21	57:CY:109:LEU:HG	1.97	0.47
58:CW:57:ARG:NH1	58:CW:57:ARG:CG	2.64	0.47
60:Cr:6:GLN:NE2	74:CC:133:LEU:HD21	2.24	0.47
63:CB:57:VAL:HG12	63:CB:366:LYS:CE	2.12	0.47
63:CB:100:ARG:HH12	63:CB:102:PHE:HD1	1.59	0.47
63:CB:290:GLY:O	63:CB:299:ILE:HD11	2.13	0.47
64:CF:86:GLU:HA	64:CF:86:GLU:OE1	2.13	0.47
64:CF:200:ARG:O	64:CF:201:PHE:C	2.58	0.47
65:Cc:82:GLY:CA	65:Cc:91:VAL:HG22	2.45	0.47
66:Cd:116:ASN:C	66:Cd:117:LEU:CD2	2.84	0.47
68:Cf:8:LYS:NZ	81:CE:279:ASN:O	2.46	0.47
68:Cf:33:VAL:CG1	68:Cf:81:SER:C	2.83	0.47
68:Cf:102:ARG:CB	68:Cf:104:MET:HE1	2.44	0.47
70:Ci:1:MET:O	70:Ci:2:ALA:CB	2.61	0.47
72:Ck:26:LYS:HZ2	72:Ck:28:ASN:CG	2.19	0.47
73:Cl:30:LYS:HA	87:A8:75:G:OP1	2.14	0.47
74:CC:28:PHE:CA	74:CC:129:ALA:HA	2.38	0.47
78:Co:62:THR:O	78:Co:63:THR:HB	2.14	0.47
78:Co:69:ARG:HH21	78:Co:80:LYS:NZ	2.11	0.47
79:CJ:50:PHE:CD1	79:CJ:70:VAL:HB	2.49	0.47
80:CH:110:SER:O	80:CH:111:LEU:HG	2.14	0.47
81:CE:143:SER:O	81:CE:144:ILE:C	2.50	0.47
81:CE:145:THR:HB	81:CE:200:LYS:HE2	1.97	0.47
81:CE:148:THR:C	81:CE:163:VAL:HG11	2.34	0.47
81:CE:265:PRO:O	81:CE:266:GLN:HG2	2.14	0.47
82:CG:99:ALA:CB	82:CG:204:PHE:CZ	2.98	0.47
83:Ct:40:GLU:HB2	83:Ct:43:TRP:HD1	1.78	0.47
84:Cv:3:TYR:O	84:Cv:7:TYR:CE2	2.66	0.47
85:A5:417:G:H1'	87:A8:16:G:N2	2.29	0.47
85:A5:2308:A:H4'	85:A5:2334:C:H4'	1.96	0.47
85:A5:3971:G:C8	85:A5:3971:G:C3'	2.95	0.47
85:A5:4299:U:H3	85:A5:4311:A:H61	1.63	0.47
85:A5:4769:G:H1	85:A5:4865:C:H42	1.61	0.47
1:Az:70:ILE:O	1:Az:71:LYS:HB2	2.14	0.47
1:Az:244:LEU:H	1:Az:244:LEU:CD2	2.27	0.47
1:Az:300:VAL:CG2	1:Az:301:PHE:N	2.77	0.47
1:Az:408:GLY:HA2	36:B2:479:C:H5''	1.96	0.47
1:Az:503:PRO:HA	1:Az:549:ALA:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:774:SER:OG	40:CK:25:THR:O	2.30	0.47
1:Az:813:VAL:HG13	1:Az:814:PHE:H	1.80	0.47
2:Ag:163:PRO:HB2	2:Ag:179:LEU:HG	1.97	0.47
2:Ag:197:THR:HG21	2:Ag:238:ALA:CA	2.44	0.47
3:AU:16:ALA:O	3:AU:17:ILE:HG13	2.14	0.47
3:AU:108:PRO:HG2	3:AU:110:VAL:HG23	1.96	0.47
4:AK:64:TRP:HE1	23:AD:23:GLU:HB3	1.79	0.47
5:AO:72:TYR:CE1	5:AO:76:LEU:CD1	2.98	0.47
7:AM:113:ASP:C	7:AM:115:GLY:H	2.23	0.47
8:AS:30:ILE:O	8:AS:32:ALA:N	2.47	0.47
8:AS:55:ARG:HH12	19:AZ:82:SER:CB	2.27	0.47
8:AS:80:PRO:HG3	8:AS:82:TRP:CZ2	2.50	0.47
9:Ad:5:GLN:O	9:Ad:6:LEU:C	2.56	0.47
9:Ad:18:SER:C	9:Ad:19:ARG:HG2	2.39	0.47
9:Ad:44:ARG:NH2	36:B2:1337:C:H5'	2.29	0.47
11:AL:22:ARG:HD2	33:AI:154:LYS:O	2.14	0.47
11:AL:96:ILE:HD12	11:AL:96:ILE:N	2.30	0.47
12:AR:95:ILE:CG2	12:AR:115:SER:O	2.62	0.47
12:AR:105:MET:C	12:AR:109:LEU:HD12	2.40	0.47
13:AP:49:LEU:C	13:AP:51:ARG:CA	2.82	0.47
13:AP:107:ILE:CA	13:AP:111:MET:CE	2.72	0.47
14:AT:36:THR:HG23	14:AT:37:VAL:N	2.29	0.47
14:AT:111:LYS:HB3	14:AT:126:GLN:HE21	1.69	0.47
15:AB:137:LEU:HD23	15:AB:215:VAL:CG1	2.18	0.47
15:AB:189:ILE:HB	15:AB:190:PRO:HD3	1.97	0.47
16:AA:4:ALA:CB	17:AV:39:VAL:HG21	2.39	0.47
16:AA:14:ASP:OD1	16:AA:180:ARG:NH2	2.48	0.47
16:AA:33:GLN:HE22	21:Ab:2:PRO:HB3	1.78	0.47
16:AA:132:GLN:N	16:AA:133:PRO:CD	2.78	0.47
16:AA:138:SER:O	17:AV:30:ALA:HA	2.15	0.47
17:AV:55:ILE:HG22	17:AV:60:ARG:CG	2.44	0.47
17:AV:69:ILE:O	17:AV:73:ALA:N	2.45	0.47
18:AY:32:LYS:HG2	18:AY:33:ALA:C	2.40	0.47
18:AY:47:MET:HE3	36:B2:837:A:C5	2.49	0.47
18:AY:87:PRO:O	18:AY:87:PRO:CD	2.60	0.47
18:AY:111:LYS:HG3	18:AY:112:ASN:N	2.29	0.47
18:AY:119:GLY:HA2	36:B2:85:A:C5'	2.45	0.47
21:Ab:25:VAL:HG22	32:AW:53:ILE:HG22	1.96	0.47
23:AD:132:LYS:HB3	23:AD:189:MET:HG3	1.96	0.47
23:AD:214:LYS:HG3	23:AD:215:ASP:CG	2.33	0.47
23:AD:223:ILE:HG22	23:AD:224:SER:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:12:VAL:HG21	36:B2:616:A:N3	2.30	0.47
27:AE:2:ALA:O	27:AE:3:ARG:CG	2.62	0.47
29:AG:71:GLY:O	29:AG:98:ARG:NE	2.48	0.47
30:AF:62:ARG:O	30:AF:63:LYS:C	2.58	0.47
30:AF:149:GLN:O	30:AF:153:LEU:HG	2.14	0.47
31:AH:144:ILE:N	32:AW:52:ILE:O	2.48	0.47
33:AI:142:SER:CB	33:AI:143:LYS:CE	2.92	0.47
34:AQ:34:VAL:HG22	34:AQ:39:LEU:HD21	1.93	0.47
35:Ah:142:LEU:O	35:Ah:144:GLU:N	2.48	0.47
36:B2:162:C:H2'	36:B2:163:U:O4'	2.13	0.47
36:B2:353:C:H2'	36:B2:354:U:C6	2.49	0.47
36:B2:529:A:N1	36:B2:555:A:N1	2.63	0.47
36:B2:530:U:O4	36:B2:555:A:C2	2.68	0.47
36:B2:1202:U:H3	36:B2:1697:A:H61	1.62	0.47
38:Cz:24:LYS:HD2	38:Cz:30:GLU:H	1.80	0.47
38:Cz:29:LEU:CB	38:Cz:60:ARG:HH22	2.26	0.47
38:Cz:32:VAL:HG12	38:Cz:169:VAL:CG2	2.44	0.47
39:Cq:134:LYS:O	39:Cq:137:PHE:CB	2.55	0.47
39:Cq:221:ASN:HA	84:Cu:55:ILE:CG2	2.42	0.47
39:Cq:253:VAL:HG22	39:Cq:263:GLU:O	2.15	0.47
40:CK:110:VAL:HG12	40:CK:114:ARG:NH1	2.29	0.47
42:CL:136:LYS:HD2	42:CL:137:GLY:HA2	1.97	0.47
44:CM:6:PHE:HB3	52:CS:151:LYS:HB3	1.96	0.47
44:CM:32:ASP:CB	44:CM:35:ARG:CG	2.82	0.47
44:CM:77:TRP:CD1	44:CM:82:ILE:CD1	2.91	0.47
44:CM:82:ILE:HG22	44:CM:83:ASN:OD1	2.15	0.47
46:CN:29:GLN:HE21	82:CG:67:ARG:HG3	1.79	0.47
46:CN:76:PRO:HG2	46:CN:78:GLY:H	1.80	0.47
46:CN:178:HIS:C	46:CN:181:HIS:NE2	2.62	0.47
46:CN:195:ARG:HE	46:CN:195:ARG:HB3	1.50	0.47
47:CI:85:PHE:CB	47:CI:140:THR:HG22	2.44	0.47
48:CD:104:LEU:HG	48:CD:247:ILE:HD13	1.97	0.47
48:CD:118:ILE:O	48:CD:119:TYR:HB2	2.13	0.47
49:CQ:30:LYS:HZ2	60:Cr:8:MET:CE	2.16	0.47
49:CQ:152:PHE:O	49:CQ:154:LYS:N	2.47	0.47
50:CR:102:LEU:CD1	50:CR:127:VAL:HG13	2.45	0.47
51:CA:5:ILE:CG2	51:CA:6:ARG:H	2.27	0.47
51:CA:28:ARG:CD	51:CA:123:ARG:HG2	2.41	0.47
51:CA:193:ARG:HH22	85:A5:3685:C:C5'	2.27	0.47
51:CA:199:VAL:HG21	85:A5:1631:A:C8	2.49	0.47
52:CS:2:LYS:HZ3	52:CS:34:ALA:HB2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:84:TYR:CD2	52:CS:85:ASP:O	2.68	0.47
53:CT:23:GLY:C	53:CT:24:VAL:HG23	2.40	0.47
53:CT:40:VAL:HG12	53:CT:41:ASP:N	2.29	0.47
55:CU:84:LYS:NZ	55:CU:102:VAL:O	2.39	0.47
58:CW:12:LYS:C	58:CW:32:LEU:CD2	2.84	0.47
59:CZ:95:VAL:CG1	59:CZ:110:ALA:HA	2.44	0.47
60:Cr:31:ASN:O	60:Cr:32:LEU:HG	2.15	0.47
60:Cr:32:LEU:CD2	60:Cr:112:ARG:HH22	2.26	0.47
60:Cr:68:SER:OG	60:Cr:103:ARG:HD2	2.15	0.47
60:Cr:112:ARG:CG	67:Ce:90:MET:HE2	2.43	0.47
63:CB:21:ARG:HH12	85:A5:4978:G:H5'	1.80	0.47
63:CB:36:ASP:O	63:CB:36:ASP:OD1	2.32	0.47
63:CB:40:PRO:O	63:CB:187:GLY:HA2	2.13	0.47
63:CB:235:TRP:O	63:CB:236:HIS:C	2.52	0.47
63:CB:282:LYS:HB3	63:CB:333:LEU:CD1	2.45	0.47
63:CB:338:VAL:O	63:CB:345:LEU:CD1	2.62	0.47
63:CB:355:THR:O	63:CB:356:LYS:NZ	2.46	0.47
64:CF:133:LEU:O	64:CF:136:VAL:HG22	2.14	0.47
64:CF:209:TRP:CG	64:CF:210:PRO:HD2	2.49	0.47
64:CF:226:HIS:CB	64:CF:229:GLU:HG2	2.44	0.47
65:Cc:14:ILE:HG13	65:Cc:17:ARG:NH2	2.30	0.47
65:Cc:67:ALA:O	65:Cc:68:LYS:HB3	2.14	0.47
65:Cc:87:LYS:HD2	65:Cc:89:TYR:HE2	1.75	0.47
67:Ce:14:LYS:CB	67:Ce:16:ARG:O	2.61	0.47
67:Ce:108:ARG:O	67:Ce:112:VAL:HG23	2.15	0.47
68:Cf:29:LYS:O	68:Cf:31:GLU:OE1	2.33	0.47
68:Cf:32:GLY:O	81:CE:284:HIS:CE1	2.66	0.47
68:Cf:36:ARG:HG3	68:Cf:79:GLY:O	2.14	0.47
69:Cg:108:LYS:HA	69:Cg:108:LYS:HD3	1.48	0.47
70:Ci:60:LEU:CB	70:Ci:64:SER:OG	2.62	0.47
70:Ci:78:GLY:N	70:Ci:79:THR:N	2.63	0.47
71:Cj:76:HIS:HB3	71:Cj:79:ARG:HE	1.78	0.47
72:Ck:6:GLU:O	72:Ck:45:LEU:CD1	2.63	0.47
74:CC:8:ILE:HD11	74:CC:151:PRO:CD	2.45	0.47
74:CC:12:SER:C	74:CC:13:GLU:OE1	2.57	0.47
74:CC:283:LYS:NZ	74:CC:283:LYS:HB3	2.27	0.47
74:CC:310:HIS:C	74:CC:311:ARG:HG2	2.38	0.47
75:Cm:94:MET:CE	75:Cm:123:PRO:CG	2.85	0.47
77:Cp:29:ILE:HG23	77:Cp:69:TRP:HB3	1.96	0.47
77:Cp:30:GLU:OE1	77:Cp:30:GLU:HA	2.15	0.47
78:Co:8:ARG:NH1	78:Co:8:ARG:CG	2.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:57:VAL:CG1	79:CJ:60:PHE:CD2	2.88	0.47
79:CJ:154:LYS:O	79:CJ:155:HIS:CB	2.62	0.47
81:CE:115:TYR:HA	81:CE:117:PRO:HD3	1.95	0.47
81:CE:138:ARG:NH2	81:CE:168:LEU:O	2.32	0.47
81:CE:219:LYS:CG	85:A5:4939:C:H2'	2.44	0.47
81:CE:222:LEU:HD13	81:CE:238:GLU:OE2	2.15	0.47
81:CE:239:LYS:O	81:CE:242:ILE:HG22	2.14	0.47
82:CG:27:VAL:O	82:CG:31:LEU:HD13	2.11	0.47
82:CG:76:VAL:HA	82:CG:77:PRO:HD3	1.79	0.47
82:CG:128:VAL:H	82:CG:129:PRO:HD3	1.77	0.47
82:CG:152:ALA:N	82:CG:205:THR:CG2	2.78	0.47
83:Cs:16:LEU:CG	83:Cs:31:LEU:HD11	2.37	0.47
85:A5:15:A:H2'	85:A5:16:G:O4'	2.14	0.47
85:A5:65:A:N6	85:A5:75:G:H1'	2.30	0.47
85:A5:363:A:H61	85:A5:376:A:H5''	1.80	0.47
85:A5:1266:G:H8	85:A5:1266:G:OP2	1.98	0.47
85:A5:1918:U:H3	85:A5:2064:G:H1	1.63	0.47
85:A5:2551:A:C2'	85:A5:2552:G:H5'	2.44	0.47
85:A5:2771:G:H2'	85:A5:2772:C:H5'	1.96	0.47
85:A5:4991:U:H2'	85:A5:4992:G:C8	2.49	0.47
86:A7:1:G:H2'	86:A7:2:U:C6	2.49	0.47
1:Az:206:ASP:HB2	1:Az:207:PRO:HD2	1.92	0.47
1:Az:228:PHE:CE1	1:Az:232:TYR:CE2	3.02	0.47
1:Az:592:LEU:CB	1:Az:603:TYR:CD1	2.98	0.47
1:Az:778:GLY:O	40:CK:31:LYS:HE3	2.15	0.47
2:Ag:5:MET:HE1	2:Ag:312:VAL:CB	2.43	0.47
2:Ag:294:ASP:OD1	2:Ag:294:ASP:N	2.43	0.47
3:AU:82:MET:HE1	9:Ad:50:ILE:HG22	1.95	0.47
5:AO:43:HIS:O	5:AO:43:HIS:CD2	2.68	0.47
5:AO:44:VAL:CG1	5:AO:93:LEU:HD22	2.44	0.47
5:AO:119:LEU:HD11	5:AO:126:ILE:HD11	1.97	0.47
10:AN:19:ARG:CZ	21:Ab:84:HIS:OXT	2.61	0.47
11:AL:57:ASP:OD1	11:AL:59:LYS:HB2	2.14	0.47
12:AR:84:TYR:C	12:AR:85:VAL:CG2	2.87	0.47
12:AR:87:GLU:O	12:AR:88:VAL:CG1	2.62	0.47
12:AR:95:ILE:CA	12:AR:114:LEU:HD13	2.42	0.47
15:AB:131:ASP:OD1	15:AB:180:ASP:HA	2.15	0.47
15:AB:136:ARG:CG	15:AB:138:PHE:CZ	2.98	0.47
15:AB:210:VAL:C	15:AB:211:PHE:CG	2.93	0.47
16:AA:30:LEU:HD13	16:AA:38:ILE:HD13	1.68	0.47
16:AA:149:ASN:H	16:AA:165:ASN:ND2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AY:66:GLY:CA	36:B2:582:U:OP1	2.62	0.47
18:AY:118:ARG:CZ	29:AG:85:ARG:CZ	2.92	0.47
22:Ac:7:GLN:O	22:Ac:7:GLN:OE1	2.32	0.47
22:Ac:11:LEU:HB3	22:Ac:35:MET:SD	2.54	0.47
22:Ac:49:PRO:HD3	30:AF:145:ARG:NH1	2.20	0.47
27:AE:117:GLU:C	27:AE:119:ALA:N	2.73	0.47
27:AE:149:TYR:HD2	29:AG:205:GLU:CB	2.11	0.47
27:AE:191:ARG:NE	27:AE:245:ARG:CD	2.76	0.47
27:AE:259:LYS:O	27:AE:260:GLN:HG2	2.14	0.47
28:AC:256:TRP:CZ2	32:AW:68:ARG:HD2	2.49	0.47
29:AG:6:SER:OG	29:AG:112:VAL:HG22	2.15	0.47
29:AG:64:LYS:HD2	29:AG:65:GLN:C	2.40	0.47
30:AF:42:LYS:CB	30:AF:45:TYR:CA	2.81	0.47
30:AF:138:ALA:HB3	30:AF:204:ARG:HB3	1.96	0.47
30:AF:141:VAL:HG22	30:AF:146:ARG:HD3	1.97	0.47
34:AQ:19:ALA:HB1	34:AQ:74:GLY:O	2.12	0.47
34:AQ:114:GLN:CG	34:AQ:115:TYR:N	2.60	0.47
36:B2:529:A:N1	36:B2:555:A:C2	2.83	0.47
38:Cz:24:LYS:CG	38:Cz:26:ARG:HB2	2.44	0.47
39:Cq:131:GLY:O	39:Cq:133:GLU:CD	2.58	0.47
39:Cq:168:GLY:CA	39:Cq:171:GLU:CG	2.92	0.47
39:Cq:261:LEU:C	39:Cq:264:LYS:HG2	2.39	0.47
41:CO:73:PHE:CD1	41:CO:78:ARG:HG2	2.50	0.47
41:CO:127:VAL:O	41:CO:127:VAL:CG1	2.61	0.47
41:CO:185:VAL:HA	41:CO:188:LYS:HB2	1.97	0.47
41:CO:187:LYS:O	41:CO:188:LYS:C	2.58	0.47
42:CL:24:THR:HB	42:CL:26:PHE:HE2	1.80	0.47
42:CL:161:TYR:C	42:CL:162:LYS:HG3	2.39	0.47
42:CL:169:ILE:HG13	42:CL:170:THR:N	2.29	0.47
46:CN:4:TYR:HD1	46:CN:46:ASP:HA	1.80	0.47
46:CN:192:TRP:O	46:CN:195:ARG:HG3	2.15	0.47
47:CI:102:MET:CA	47:CI:103:LEU:HD22	2.45	0.47
48:CD:155:THR:O	48:CD:155:THR:HG23	2.14	0.47
51:CA:120:PRO:CD	51:CA:159:SER:OG	2.62	0.47
51:CA:231:ALA:O	51:CA:232:GLY:C	2.57	0.47
52:CS:2:LYS:HE2	52:CS:34:ALA:HB2	1.95	0.47
52:CS:48:VAL:HG13	52:CS:49:SER:N	2.30	0.47
52:CS:78:PHE:CE1	52:CS:130:GLU:C	2.93	0.47
54:CP:41:ILE:CD1	54:CP:150:LEU:HD13	2.35	0.47
54:CP:76:TRP:CE3	54:CP:76:TRP:HA	2.50	0.47
54:CP:76:TRP:CE3	54:CP:76:TRP:N	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:40:GLU:CG	55:CU:70:ILE:CD1	2.92	0.47
55:CU:91:LEU:CD2	55:CU:96:LEU:HB3	2.44	0.47
57:CY:74:TYR:CB	57:CY:81:TYR:HE2	2.27	0.47
58:CW:27:LYS:CG	58:CW:28:VAL:H	1.90	0.47
60:Cr:48:THR:H	60:Cr:66:ARG:HB3	1.80	0.47
60:Cr:106:LEU:HB3	60:Cr:109:ALA:HB3	1.96	0.47
60:Cr:115:SER:HB2	81:CE:116:TYR:HB2	1.97	0.47
63:CB:198:ARG:HA	63:CB:201:LEU:HD13	1.97	0.47
63:CB:257:TRP:HD1	63:CB:257:TRP:C	2.22	0.47
63:CB:359:ALA:O	63:CB:360:LEU:HB2	2.15	0.47
66:Cd:75:LYS:O	66:Cd:79:ASN:HB2	2.14	0.47
66:Cd:77:ILE:HD12	85:A5:2370:A:C6	2.49	0.47
66:Cd:112:THR:OG1	66:Cd:113:THR:O	2.33	0.47
68:Cf:33:VAL:CG2	68:Cf:82:GLY:O	2.49	0.47
68:Cf:63:LYS:H	68:Cf:64:PRO:CD	2.27	0.47
70:Ci:20:ASN:HB3	70:Ci:21:VAL:H	1.49	0.47
70:Ci:33:LEU:HD12	70:Ci:33:LEU:N	2.27	0.47
76:Cn:13:LEU:O	76:Cn:13:LEU:HD22	2.15	0.47
78:Co:36:GLN:HA	78:Co:36:GLN:NE2	2.29	0.47
78:Co:75:PRO:O	78:Co:76:ASN:C	2.53	0.47
81:CE:85:LYS:CB	81:CE:92:VAL:HG13	2.45	0.47
81:CE:274:VAL:CG1	81:CE:275:PHE:C	2.88	0.47
82:CG:82:GLN:CG	82:CG:233:ILE:CG2	2.89	0.47
82:CG:183:ILE:CG2	82:CG:184:ILE:C	2.73	0.47
85:A5:2021:G:H2'	85:A5:2022:C:H6	1.79	0.47
1:Az:27:HIS:NE2	1:Az:28:VAL:O	2.48	0.47
1:Az:42:LYS:HA	1:Az:42:LYS:HD2	1.79	0.47
1:Az:113:SER:CB	1:Az:533:MET:HA	2.45	0.47
1:Az:202:ASN:OD1	1:Az:204:MET:HG3	2.15	0.47
1:Az:267:ASP:N	1:Az:267:ASP:CB	2.67	0.47
1:Az:755:VAL:CG1	1:Az:808:ALA:CB	2.90	0.47
2:Ag:14:HIS:CE1	2:Ag:41:ILE:HG12	2.50	0.47
2:Ag:49:GLU:C	2:Ag:50:THR:OG1	2.57	0.47
2:Ag:189:ILE:HG22	2:Ag:190:GLY:N	2.30	0.47
4:AK:4:PRO:HG2	4:AK:7:ASN:CG	2.39	0.47
4:AK:25:LYS:HD2	4:AK:62:PHE:CE1	2.45	0.47
4:AK:43:LEU:N	4:AK:46:MET:H	2.13	0.47
6:AX:134:TYR:CE1	24:Ae:13:ARG:HD3	2.50	0.47
11:AL:76:VAL:O	11:AL:76:VAL:HG23	2.15	0.47
15:AB:144:LYS:HB3	15:AB:208:HIS:HB3	1.97	0.47
15:AB:146:ARG:NH1	15:AB:146:ARG:HG2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:30:LEU:CD2	16:AA:35:GLU:HG2	2.41	0.47
18:AY:88:LYS:HE2	18:AY:99:LYS:HG3	1.97	0.47
19:AZ:99:LEU:CG	19:AZ:102:LYS:HD3	2.42	0.47
23:AD:10:LYS:HE3	23:AD:14:ASP:OD2	2.14	0.47
23:AD:157:MET:HE1	23:AD:187:LYS:CG	2.38	0.47
24:Ae:22:GLN:HB3	24:Ae:23:GLU:H	1.34	0.47
25:Af:83:LYS:O	25:Af:84:SER:O	2.32	0.47
25:Af:127:GLY:O	25:Af:129:GLY:N	2.48	0.47
27:AE:166:THR:C	27:AE:168:LYS:HG2	2.40	0.47
27:AE:200:ARG:HG2	27:AE:206:ASP:OD2	2.14	0.47
28:AC:233:LEU:HD12	28:AC:233:LEU:C	2.39	0.47
29:AG:51:ARG:HG2	29:AG:51:ARG:HH11	1.79	0.47
31:AH:29:GLU:OE1	31:AH:86:LYS:HE3	2.15	0.47
31:AH:40:LEU:HD23	31:AH:43:LEU:HG	1.96	0.47
31:AH:139:ILE:HD12	31:AH:139:ILE:N	2.30	0.47
31:AH:154:ILE:CG2	31:AH:185:VAL:HG23	2.45	0.47
31:AH:169:LYS:HB2	31:AH:173:PHE:CZ	2.47	0.47
35:Ah:175:ARG:O	35:Ah:176:GLY:C	2.58	0.47
36:B2:845:G:C3'	36:B2:846:G:C8	2.98	0.47
38:Cz:47:LYS:CB	38:Cz:195:LYS:HD2	2.44	0.47
39:Cq:63:LYS:HD2	39:Cq:82:ILE:CD1	2.45	0.47
39:Cq:168:GLY:H	39:Cq:171:GLU:HG3	1.80	0.47
39:Cq:243:ASN:O	39:Cq:247:ARG:HG3	2.15	0.47
40:CK:7:PRO:CG	40:CK:8:ASN:N	2.78	0.47
40:CK:117:ARG:HE	40:CK:117:ARG:HA	1.45	0.47
40:CK:130:LYS:HZ2	40:CK:158:GLY:HA3	1.80	0.47
42:CL:133:ALA:HA	42:CL:134:PRO:HD3	1.55	0.47
42:CL:200:LYS:HD3	42:CL:200:LYS:HA	1.45	0.47
44:CM:96:GLU:CD	44:CM:96:GLU:O	2.58	0.47
46:CN:4:TYR:CB	46:CN:46:ASP:OD1	2.63	0.47
47:CI:30:LYS:HB2	47:CI:62:SER:OG	2.15	0.47
47:CI:48:LEU:HD13	47:CI:49:GLY:CA	2.44	0.47
47:CI:125:THR:O	47:CI:126:VAL:HG23	2.15	0.47
47:CI:206:LEU:O	47:CI:207:ASP:O	2.32	0.47
48:CD:99:TYR:CE1	48:CD:164:LYS:HG3	2.50	0.47
49:CQ:178:ARG:HD3	49:CQ:185:GLY:CA	2.24	0.47
51:CA:196:TRP:CE2	51:CA:197:PRO:HG3	2.50	0.47
52:CS:29:ARG:CB	53:CT:150:LEU:HB2	2.43	0.47
52:CS:78:PHE:CE2	52:CS:102:THR:HG22	2.50	0.47
52:CS:154:LEU:HD12	52:CS:157:ARG:NH1	2.26	0.47
53:CT:17:ARG:NE	53:CT:47:THR:OG1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:117:ILE:O	54:CP:117:ILE:HG23	2.15	0.47
58:CW:123:LYS:C	58:CW:124:LYS:O	2.48	0.47
60:Cr:25:TYR:CB	67:Ce:87:VAL:HG11	2.45	0.47
60:Cr:28:GLU:O	60:Cr:30:ASN:CA	2.63	0.47
60:Cr:60:VAL:CB	60:Cr:85:ASN:OD1	2.62	0.47
60:Cr:121:GLN:C	60:Cr:123:PRO:HD2	2.39	0.47
61:Ch:85:PRO:CA	61:Ch:86:LYS:NZ	2.77	0.47
63:CB:116:ARG:HD3	63:CB:122:TRP:CE3	2.50	0.47
63:CB:150:PHE:N	63:CB:150:PHE:HD1	2.05	0.47
64:CF:101:VAL:HG13	64:CF:101:VAL:O	2.14	0.47
69:Cg:9:ARG:HB2	69:Cg:34:TYR:CE1	2.49	0.47
77:Cp:4:ARG:CG	77:Cp:4:ARG:HH11	2.25	0.47
81:CE:34:ALA:O	81:CE:36:LYS:CD	2.63	0.47
81:CE:76:ALA:C	81:CE:77:LYS:HG3	2.39	0.47
81:CE:157:HIS:HB3	81:CE:160:LYS:HD3	1.96	0.47
82:CG:255:LYS:HD3	82:CG:255:LYS:C	2.40	0.47
83:Ct:32:ILE:HD13	83:Ct:39:VAL:CG1	2.45	0.47
85:A5:306:A:H61	85:A5:328:A:H61	1.63	0.47
85:A5:1363:C:O4'	85:A5:1363:C:C6	2.67	0.47
85:A5:2636:U:H2'	85:A5:2637:U:O4'	2.14	0.47
85:A5:3770:U:H2'	85:A5:3771:C:C6	2.50	0.47
85:A5:4748:U:H3	85:A5:4952:G:H1	1.63	0.47
1:Az:435:THR:OG1	1:Az:438:LYS:HB2	2.15	0.47
1:Az:592:LEU:HB2	1:Az:603:TYR:CE1	2.50	0.47
1:Az:745:TYR:HE2	1:Az:746:LEU:O	1.89	0.47
2:Ag:42:MET:HB2	2:Ag:92:LEU:CD1	2.45	0.47
2:Ag:147:HIS:C	2:Ag:149:GLU:N	2.71	0.47
2:Ag:257:LYS:HG3	2:Ag:266:ILE:HD11	1.97	0.47
5:AO:82:ALA:O	5:AO:86:LYS:HG2	2.16	0.47
5:AO:142:ARG:HH12	20:Aa:27:ALA:CB	2.03	0.47
6:AX:58:GLU:O	6:AX:59:ALA:C	2.58	0.47
9:Ad:12:ARG:HA	9:Ad:12:ARG:HD3	1.75	0.47
12:AR:101:ASP:C	16:AA:48:ILE:HD13	2.40	0.47
13:AP:10:ARG:CD	13:AP:11:THR:H	2.24	0.47
13:AP:94:VAL:HG12	13:AP:96:VAL:HG23	1.97	0.47
14:AT:28:LEU:HD23	14:AT:28:LEU:HA	1.58	0.47
15:AB:24:PRO:O	15:AB:28:LYS:HG3	2.15	0.47
18:AY:79:LEU:O	18:AY:83:LYS:HG3	2.15	0.47
20:Aa:28:ARG:HD3	20:Aa:74:CYS:HB2	1.95	0.47
23:AD:68:GLU:O	23:AD:72:VAL:HG23	2.14	0.47
23:AD:178:ARG:H	23:AD:178:ARG:NE	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AD:222:PRO:O	23:AD:223:ILE:CD1	2.63	0.47
24:Ae:8:ARG:O	24:Ae:11:LYS:HB2	2.15	0.47
25:Af:103:LEU:CD2	25:Af:105:TYR:CA	2.93	0.47
26:AJ:179:LYS:CA	26:AJ:182:GLN:OE1	2.61	0.47
27:AE:167:GLY:C	27:AE:168:LYS:CG	2.88	0.47
27:AE:213:ALA:O	27:AE:214:ASN:OD1	2.33	0.47
28:AC:69:LEU:H	28:AC:273:LEU:HD22	1.79	0.47
29:AG:33:ALA:H	29:AG:52:ILE:CG2	2.14	0.47
29:AG:73:VAL:CG1	29:AG:74:ARG:N	2.77	0.47
29:AG:79:LYS:HD2	29:AG:80:GLY:N	2.30	0.47
29:AG:142:ARG:NH1	29:AG:142:ARG:HG2	2.30	0.47
29:AG:143:LYS:HA	29:AG:143:LYS:HE3	1.97	0.47
29:AG:154:ARG:HH21	36:B2:77:A:N6	2.13	0.47
30:AF:45:TYR:CA	30:AF:47:LYS:HE2	2.44	0.47
31:AH:50:GLU:OE1	31:AH:58:LYS:HE2	2.15	0.47
36:B2:1670:C:H2'	36:B2:1671:G:C8	2.50	0.47
39:Cq:35:VAL:HG13	39:Cq:36:GLY:N	2.30	0.47
39:Cq:131:GLY:C	39:Cq:133:GLU:OE2	2.58	0.47
40:CK:56:LEU:HB2	40:CK:91:ASP:OD1	2.06	0.47
40:CK:123:ARG:CG	40:CK:125:LEU:N	2.78	0.47
42:CL:66:TYR:O	42:CL:68:THR:N	2.48	0.47
42:CL:94:ILE:HG22	42:CL:120:TYR:OH	2.15	0.47
42:CL:190:ARG:CG	42:CL:190:ARG:NH1	2.77	0.47
44:CM:107:PHE:CD1	81:CE:270:TYR:CZ	3.03	0.47
45:Ca:40:HIS:CD2	45:Ca:41:HIS:CE1	3.02	0.47
46:CN:46:ASP:HB3	46:CN:50:ARG:CZ	2.33	0.47
46:CN:84:PRO:CD	46:CN:85:VAL:N	2.77	0.47
46:CN:112:ALA:HB1	46:CN:138:PHE:CE2	2.50	0.47
47:CI:16:PRO:HD3	47:CI:128:ARG:NH1	2.14	0.47
47:CI:48:LEU:HD23	47:CI:142:LEU:CD2	2.45	0.47
47:CI:177:ASN:HB3	47:CI:180:GLU:CD	2.34	0.47
47:CI:181:PHE:O	47:CI:185:VAL:HG23	2.15	0.47
48:CD:45:ASN:OD1	53:CT:33:ILE:HG21	2.14	0.47
49:CQ:6:ARG:NH2	64:CF:113:ARG:CA	2.63	0.47
49:CQ:67:ILE:HD12	49:CQ:96:PRO:HD2	1.96	0.47
49:CQ:133:GLY:O	49:CQ:136:THR:HG23	2.15	0.47
49:CQ:154:LYS:HD2	49:CQ:163:THR:HG21	1.88	0.47
50:CR:72:LYS:O	50:CR:74:ARG:NH1	2.39	0.47
51:CA:254:GLU:CA	51:CA:255:LYS:HB2	2.40	0.47
52:CS:169:THR:CG2	52:CS:170:LYS:HZ1	2.28	0.47
54:CP:36:ILE:HG22	54:CP:114:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CP:41:ILE:CD1	54:CP:150:LEU:HB3	2.40	0.47
54:CP:76:TRP:CE3	54:CP:76:TRP:CA	2.97	0.47
56:CX:119:ILE:HD13	56:CX:120:ASP:H	1.78	0.47
57:CY:64:GLY:C	57:CY:65:GLN:CG	2.88	0.47
58:CW:76:VAL:HG12	58:CW:77:LYS:CA	2.43	0.47
58:CW:109:ILE:O	58:CW:113:LYS:CD	2.63	0.47
59:CZ:92:ASP:CB	59:CZ:117:LYS:NZ	2.67	0.47
59:CZ:100:VAL:HA	59:CZ:106:LEU:HG	1.97	0.47
60:Cr:117:ILE:C	60:Cr:120:SER:OG	2.56	0.47
61:Ch:28:LEU:HD13	61:Ch:32:ARG:HH21	1.80	0.47
63:CB:81:THR:CG2	63:CB:207:VAL:CG1	2.93	0.47
63:CB:108:GLU:HA	63:CB:137:TRP:CD1	2.50	0.47
63:CB:239:LYS:NZ	85:A5:3844:U:C6	2.78	0.47
65:Cc:29:LEU:CD1	65:Cc:89:TYR:CZ	2.94	0.47
65:Cc:29:LEU:HA	65:Cc:94:LEU:HD12	1.96	0.47
66:Cd:118:GLN:NE2	85:A5:4996:C:O2	2.48	0.47
67:Ce:4:LEU:N	67:Ce:4:LEU:CD1	2.78	0.47
67:Ce:22:ARG:HD3	67:Ce:31:ILE:HG21	1.92	0.47
68:Cf:106:TYR:CB	68:Cf:107:PRO:CA	2.87	0.47
69:Cg:99:GLU:OE1	69:Cg:99:GLU:HA	2.15	0.47
74:CC:164:THR:HA	74:CC:220:ALA:O	2.15	0.47
75:Cm:109:ASN:OD1	75:Cm:119:ASN:HB3	2.15	0.47
81:CE:70:LYS:O	81:CE:70:LYS:HD3	2.15	0.47
81:CE:247:LYS:HD2	81:CE:247:LYS:HA	1.61	0.47
82:CG:157:ILE:HG21	82:CG:167:VAL:CG1	2.44	0.47
83:Cs:31:LEU:HD21	84:Cu:30:VAL:N	2.30	0.47
85:A5:750:U:H3	85:A5:912:G:H1	1.60	0.47
85:A5:1360:G:C6	85:A5:1361:G:C6	3.02	0.47
85:A5:3639:U:H3	85:A5:3649:A:H61	1.63	0.47
1:Az:19:ILE:HD13	1:Az:468:ASN:OD1	2.15	0.46
2:Ag:176:VAL:HB	2:Ag:186:THR:CG2	2.26	0.46
2:Ag:181:ASN:OD1	2:Ag:181:ASN:C	2.54	0.46
2:Ag:194:TYR:O	2:Ag:211:GLY:HA3	2.15	0.46
3:Au:40:ILE:CD1	3:Au:53:PRO:CD	2.88	0.46
5:AO:37:PHE:CE1	5:AO:110:PRO:HD3	2.50	0.46
13:AP:5:GLU:O	13:AP:6:GLN:HG2	2.14	0.46
13:AP:15:PHE:CD2	13:AP:110:GLU:OE2	2.69	0.46
13:AP:65:LYS:HG3	13:AP:66:GLU:HG3	1.96	0.46
23:AD:197:LYS:CA	23:AD:198:ILE:HG23	2.41	0.46
23:AD:218:LEU:CA	23:AD:220:THR:HG23	2.45	0.46
24:Ae:34:ARG:HG2	26:AJ:32:ILE:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:22:LYS:HB2	27:AE:22:LYS:HE3	1.66	0.46
30:AF:14:THR:OG1	34:AQ:56:LEU:CG	2.56	0.46
30:AF:88:MET:O	30:AF:92:ILE:HG13	2.16	0.46
30:AF:201:LYS:O	30:AF:202:SER:O	2.32	0.46
31:AH:160:LYS:CB	31:AH:192:PHE:HZ	2.27	0.46
33:AI:114:GLU:O	33:AI:118:ALA:HA	2.15	0.46
34:AQ:10:VAL:CG1	34:AQ:11:GLN:N	2.78	0.46
34:AQ:32:ILE:C	34:AQ:39:LEU:HG	2.40	0.46
34:AQ:128:GLU:HG3	36:B2:1648:G:C5'	2.45	0.46
35:Ah:157:ILE:N	35:Ah:158:ILE:N	2.63	0.46
36:B2:1085:C:N3	36:B2:1861:G:O6	2.48	0.46
36:B2:1236:G:H2'	36:B2:1237:C:C6	2.50	0.46
40:CK:85:LEU:HB2	40:CK:106:PHE:CD2	2.50	0.46
40:CK:95:GLN:O	40:CK:97:ASN:N	2.48	0.46
40:CK:111:ASN:C	40:CK:114:ARG:HG2	2.40	0.46
41:CO:60:LYS:O	41:CO:61:ARG:CG	2.63	0.46
42:CL:33:ILE:O	42:CL:37:LYS:HG2	2.15	0.46
42:CL:87:HIS:O	42:CL:89:LYS:N	2.48	0.46
44:CM:13:ALA:HB2	44:CM:55:MET:HE3	1.93	0.46
44:CM:25:VAL:CG1	44:CM:26:ALA:N	2.78	0.46
46:CN:120:TRP:CZ2	46:CN:122:GLY:HA2	2.49	0.46
48:CD:10:LYS:O	48:CD:14:LYS:HG3	2.15	0.46
49:CQ:70:MET:HE2	49:CQ:98:LEU:CG	2.44	0.46
50:CR:3:MET:O	50:CR:3:MET:HG3	2.10	0.46
50:CR:103:ARG:NH1	50:CR:124:TYR:CZ	2.83	0.46
51:CA:101:VAL:HB	51:CA:165:VAL:HG12	1.97	0.46
51:CA:234:LYS:C	51:CA:238:ILE:HD11	2.40	0.46
52:CS:80:ILE:HG21	52:CS:95:ARG:HG3	1.90	0.46
54:CP:71:ALA:HB2	85:A5:4981:G:O3'	2.15	0.46
54:CP:93:HIS:C	54:CP:95:LEU:N	2.73	0.46
54:CP:119:VAL:CG2	54:CP:146:ILE:HG12	2.35	0.46
55:CU:33:ILE:HG12	55:CU:96:LEU:HD21	1.94	0.46
56:CX:41:ARG:HG3	82:CG:52:THR:HG22	1.97	0.46
58:CW:91:MET:O	58:CW:95:ASN:CG	2.58	0.46
59:CZ:73:LYS:HE3	59:CZ:74:VAL:O	2.15	0.46
63:CB:394:LYS:HB3	63:CB:396:ARG:HH11	1.80	0.46
64:CF:200:ARG:HH11	64:CF:203:GLU:CG	2.17	0.46
66:Cd:84:ILE:C	66:Cd:114:PHE:CZ	2.93	0.46
68:Cf:32:GLY:HA2	68:Cf:34:TYR:CD1	2.49	0.46
69:Cg:46:CYS:HA	69:Cg:82:MET:CA	2.45	0.46
71:Cj:81:GLY:O	87:A8:95:A:H5'	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:72:ALA:C	74:CC:73:VAL:HG23	2.39	0.46
75:Cm:92:ASP:O	75:Cm:93:LYS:HG2	2.15	0.46
77:Cp:47:MET:CE	77:Cp:56:HIS:CA	2.91	0.46
79:CJ:10:ASN:H	79:CJ:11:PRO:HD3	1.80	0.46
81:CE:162:VAL:CG1	81:CE:175:VAL:CG1	2.92	0.46
81:CE:186:LEU:HB3	81:CE:187:ARG:H	1.56	0.46
82:CG:189:ARG:CG	82:CG:190:LEU:N	2.78	0.46
83:Cs:15:ILE:CG1	84:Cu:5:ALA:CB	2.94	0.46
85:A5:1242:G:C2'	85:A5:1242:G:C8	2.98	0.46
85:A5:1757:U:H2'	85:A5:1758:G:C1'	2.45	0.46
85:A5:4886:C:H42	85:A5:4933:C:N4	2.13	0.46
1:Az:101:ASN:CG	1:Az:469:ILE:CD1	2.77	0.46
1:Az:168:GLN:O	1:Az:168:GLN:HG3	2.12	0.46
1:Az:193:GLY:HA3	1:Az:203:ILE:HD11	1.97	0.46
1:Az:434:TYR:HB3	1:Az:493:ASN:ND2	2.30	0.46
1:Az:592:LEU:CD2	1:Az:603:TYR:HE1	2.24	0.46
1:Az:746:LEU:CG	1:Az:785:LYS:HG2	2.45	0.46
2:Ag:61:GLY:O	2:Ag:88:ARG:NH2	2.48	0.46
2:Ag:212:LYS:CA	2:Ag:235:ILE:HG13	2.31	0.46
3:AU:61:LEU:HD13	9:Ad:34:TYR:CD2	2.51	0.46
4:AK:53:LYS:CA	4:AK:58:VAL:CG1	2.94	0.46
4:AK:64:TRP:O	4:AK:65:ARG:C	2.58	0.46
6:AX:51:VAL:CG1	6:AX:70:VAL:HG13	2.31	0.46
7:AM:50:CYS:HB3	7:AM:69:LEU:CD1	2.45	0.46
8:AS:8:LYS:CE	8:AS:9:PHE:HE1	2.06	0.46
11:AL:12:LYS:O	11:AL:56:ILE:HD11	2.15	0.46
11:AL:149:ALA:CA	11:AL:156:GLN:NE2	2.58	0.46
12:AR:5:ARG:O	12:AR:10:LYS:NZ	2.46	0.46
12:AR:5:ARG:H	12:AR:10:LYS:HZ1	1.60	0.46
12:AR:22:THR:HG22	12:AR:73:LEU:HD12	1.93	0.46
12:AR:88:VAL:HG22	16:AA:200:ASP:OD2	2.15	0.46
12:AR:102:THR:N	16:AA:48:ILE:CD1	2.78	0.46
13:AP:94:VAL:HG12	13:AP:96:VAL:CG2	2.44	0.46
13:AP:108:LYS:N	13:AP:111:MET:CE	2.73	0.46
14:AT:66:LEU:HB2	14:AT:67:ARG:HE	1.79	0.46
15:AB:228:LEU:CD2	15:AB:232:HIS:CD2	2.98	0.46
20:Aa:45:VAL:CG2	20:Aa:46:GLU:H	2.27	0.46
20:Aa:102:ARG:O	20:Aa:103:PRO:C	2.58	0.46
21:Ab:54:VAL:HB	21:Ab:63:LEU:CD2	2.45	0.46
23:AD:38:GLU:CG	23:AD:49:ILE:HB	2.45	0.46
23:AD:142:LEU:C	23:AD:144:GLY:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Ae:30:GLY:CA	26:AJ:38:ARG:NE	2.71	0.46
24:Ae:45:VAL:C	24:Ae:47:PRO:CG	2.88	0.46
26:AJ:87:LEU:HD11	26:AJ:92:MET:H	1.81	0.46
27:AE:49:ARG:HD2	27:AE:50:ASN:CG	2.40	0.46
27:AE:57:THR:HB	27:AE:59:ASP:H	1.80	0.46
28:AC:78:LEU:CB	28:AC:82:TYR:CE2	2.98	0.46
29:AG:139:SER:O	29:AG:143:LYS:HD2	2.14	0.46
29:AG:162:LEU:HD21	29:AG:170:ARG:HG3	1.97	0.46
29:AG:191:ARG:NH2	36:B2:312:G:C8	2.81	0.46
29:AG:196:LYS:O	29:AG:199:THR:OG1	2.18	0.46
30:AF:112:LEU:HD23	30:AF:112:LEU:C	2.39	0.46
32:AW:15:ASN:ND2	32:AW:19:LYS:CE	2.77	0.46
32:AW:20:ARG:NH2	36:B2:1139:C:C6	2.82	0.46
33:AI:141:ARG:C	33:AI:143:LYS:CB	2.85	0.46
36:B2:141:A:N6	36:B2:177:G:H21	2.10	0.46
36:B2:852:G:H3'	36:B2:853:C:O4'	2.15	0.46
36:B2:1038:U:H2'	36:B2:1039:C:H5'	1.97	0.46
36:B2:1405:A:H61	36:B2:1441:U:H3	1.62	0.46
36:B2:1463:U:H4'	36:B2:1464:C:O5'	2.15	0.46
36:B2:1567:G:C6	36:B2:1568:C:C4	3.03	0.46
38:Cz:29:LEU:HD22	38:Cz:172:VAL:CG1	2.45	0.46
39:Cq:28:PHE:CE2	39:Cq:98:ILE:HD13	2.49	0.46
39:Cq:77:LYS:HG3	39:Cq:198:ILE:CB	2.45	0.46
39:Cq:155:LEU:O	39:Cq:156:SER:HB3	2.15	0.46
40:CK:111:ASN:CA	40:CK:114:ARG:HG2	2.45	0.46
41:CO:202:LEU:HB2	44:CM:112:VAL:HG22	1.98	0.46
43:CV:42:VAL:HG21	43:CV:54:ALA:C	2.41	0.46
45:Ca:11:LEU:HD13	45:Ca:17:HIS:C	2.39	0.46
46:CN:185:GLY:HA3	46:CN:194:ARG:HH12	1.79	0.46
47:CI:69:ARG:NH1	47:CI:70:ILE:HG12	2.28	0.46
48:CD:111:ASN:O	48:CD:113:PHE:N	2.48	0.46
48:CD:273:LEU:CD1	48:CD:277:LYS:HZ1	2.28	0.46
49:CQ:94:GLU:C	49:CQ:95:VAL:HG13	2.39	0.46
51:CA:211:PHE:CE2	51:CA:235:VAL:HG12	2.50	0.46
52:CS:75:VAL:C	52:CS:76:LYS:HE2	2.35	0.46
52:CS:141:ALA:CA	52:CS:144:GLN:HE21	2.29	0.46
53:CT:118:GLU:OE2	53:CT:122:LYS:HD3	2.15	0.46
54:CP:39:MET:SD	54:CP:43:LYS:CE	3.03	0.46
54:CP:62:ARG:HG2	54:CP:63:TYR:CD2	2.50	0.46
55:CU:48:LYS:CD	55:CU:51:GLY:O	2.63	0.46
57:CY:35:SER:HA	57:CY:105:VAL:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:74:TYR:CD2	57:CY:77:LYS:HB2	2.49	0.46
59:CZ:89:ILE:O	59:CZ:89:ILE:HG12	2.15	0.46
59:CZ:101:PHE:HA	59:CZ:107:LYS:HE2	1.98	0.46
60:Cr:45:HIS:O	60:Cr:46:ARG:HB2	2.13	0.46
60:Cr:78:VAL:HG23	60:Cr:78:VAL:O	2.16	0.46
61:Ch:7:ARG:HG2	61:Ch:8:ASP:N	2.30	0.46
62:Cb:9:THR:HA	62:Cb:12:GLN:HG2	1.97	0.46
62:Cb:36:ASP:O	62:Cb:39:PHE:CB	2.63	0.46
63:CB:133:TYR:O	63:CB:136:LYS:CG	2.59	0.46
63:CB:168:MET:HE1	63:CB:171:LEU:HD12	1.97	0.46
63:CB:322:HIS:HE1	85:A5:5049:G:H1'	1.80	0.46
64:CF:225:THR:HG23	64:CF:226:HIS:O	2.15	0.46
67:Ce:29:VAL:O	67:Ce:31:ILE:N	2.44	0.46
68:Cf:39:THR:HG21	68:Cf:77:ALA:CB	2.45	0.46
69:Cg:20:THR:CB	69:Cg:32:TYR:CE2	2.98	0.46
74:CC:234:LYS:O	74:CC:235:LEU:CB	2.51	0.46
74:CC:275:SER:HB3	74:CC:276:ASN:H	1.54	0.46
78:Co:25:GLN:CD	78:Co:91:PHE:HE2	2.04	0.46
79:CJ:22:LEU:HD22	79:CJ:128:LEU:HD13	1.97	0.46
80:CH:77:VAL:HA	80:CH:80:MET:HE2	1.96	0.46
80:CH:86:LEU:HD22	80:CH:189:GLN:H	1.80	0.46
80:CH:111:LEU:CD2	80:CH:127:ARG:CA	2.88	0.46
80:CH:140:GLN:HB3	80:CH:143:GLU:OE1	2.15	0.46
81:CE:41:LYS:HB2	81:CE:42:PRO:HD2	1.96	0.46
81:CE:144:ILE:CD1	81:CE:196:ALA:HB1	2.45	0.46
81:CE:219:LYS:HG2	85:A5:4939:C:H2'	1.97	0.46
81:CE:242:ILE:CD1	85:A5:4939:C:O4'	2.62	0.46
82:CG:31:LEU:CD1	82:CG:31:LEU:N	2.71	0.46
85:A5:2402:G:H5''	85:A5:2786:C:H42	1.80	0.46
1:Az:343:TRP:CE3	1:Az:343:TRP:CA	2.98	0.46
1:Az:503:PRO:HA	1:Az:548:GLY:O	2.15	0.46
3:AU:59:LYS:HD2	3:AU:84:ILE:HG21	1.97	0.46
4:AK:16:PHE:HE2	4:AK:79:LEU:HB2	0.74	0.46
4:AK:64:TRP:NE1	23:AD:23:GLU:HG2	2.28	0.46
4:AK:83:LEU:O	4:AK:84:HIS:HB3	2.14	0.46
5:AO:31:CYS:SG	5:AO:95:ILE:HG13	2.55	0.46
5:AO:98:ARG:HD2	5:AO:132:VAL:HG23	1.97	0.46
8:AS:118:ARG:NH2	13:AP:106:GLU:O	2.49	0.46
9:Ad:33:LYS:HG3	36:B2:1658:G:H5''	1.98	0.46
11:AL:22:ARG:HD2	33:AI:155:ASN:HA	1.97	0.46
13:AP:5:GLU:O	13:AP:6:GLN:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:41:GLN:CA	13:AP:84:ILE:HG12	2.43	0.46
13:AP:88:GLU:HG3	13:AP:89:MET:N	2.27	0.46
14:AT:21:PHE:HD1	14:AT:22:LEU:HD23	1.78	0.46
14:AT:45:LEU:HD23	14:AT:48:TYR:CE1	2.49	0.46
14:AT:55:THR:HG23	14:AT:56:ARG:N	2.30	0.46
15:AB:71:LEU:C	15:AB:79:VAL:HG21	2.40	0.46
16:AA:161:ILE:HG22	16:AA:174:MET:HE2	1.98	0.46
18:AY:54:VAL:HG13	18:AY:76:TYR:CB	2.45	0.46
19:AZ:107:VAL:HG23	19:AZ:108:ILE:H	1.80	0.46
20:Aa:41:ILE:CG2	20:Aa:68:TYR:CD1	2.99	0.46
23:AD:142:LEU:O	23:AD:144:GLY:N	2.48	0.46
23:AD:182:LEU:N	23:AD:182:LEU:HD22	2.30	0.46
24:Ae:21:LYS:HA	24:Ae:21:LYS:HD2	1.46	0.46
24:Ae:28:LYS:NZ	24:Ae:28:LYS:HB2	2.28	0.46
25:Af:94:LYS:HA	25:Af:94:LYS:HD3	1.40	0.46
26:AJ:41:ARG:HA	26:AJ:44:TRP:HB2	1.98	0.46
27:AE:153:LEU:H	27:AE:153:LEU:HG	1.42	0.46
29:AG:13:GLN:O	29:AG:14:LYS:CG	2.63	0.46
29:AG:68:LEU:N	29:AG:68:LEU:HD22	2.31	0.46
30:AF:91:ARG:HD2	34:AQ:46:THR:CG2	2.40	0.46
31:AH:73:GLN:NE2	31:AH:135:PHE:HE1	2.14	0.46
31:AH:118:ARG:O	31:AH:121:THR:HG22	2.15	0.46
31:AH:146:VAL:HG11	32:AW:50:PHE:CE2	2.50	0.46
31:AH:148:LEU:HD23	31:AH:148:LEU:C	2.39	0.46
31:AH:160:LYS:HB2	31:AH:192:PHE:CZ	2.47	0.46
33:AI:130:THR:N	33:AI:131:PRO:CD	2.78	0.46
34:AQ:49:TYR:C	34:AQ:53:GLU:HG3	2.39	0.46
36:B2:494:C:N4	36:B2:509:G:H21	2.14	0.46
36:B2:579:C:H2'	36:B2:580:U:O4'	2.16	0.46
36:B2:1552:G:C8	36:B2:1578:U:C4	3.03	0.46
38:Cz:41:TYR:CD1	38:Cz:41:TYR:C	2.93	0.46
38:Cz:117:ILE:O	38:Cz:121:PRO:HG2	2.16	0.46
38:Cz:180:VAL:HG22	38:Cz:184:HIS:HD2	1.81	0.46
38:Cz:198:TRP:HZ3	38:Cz:202:ARG:HD2	1.80	0.46
39:Cq:120:GLU:HG3	39:Cq:163:THR:HG23	1.97	0.46
39:Cq:191:GLN:OE1	39:Cq:198:ILE:CG2	2.63	0.46
41:CO:80:PHE:O	41:CO:83:THR:OG1	2.32	0.46
42:CL:39:ARG:NH2	85:A5:1361:G:H4'	2.30	0.46
42:CL:59:VAL:CG1	42:CL:60:ARG:N	2.79	0.46
42:CL:79:GLU:CD	42:CL:79:GLU:H	2.24	0.46
43:CV:70:PRO:C	43:CV:72:LEU:H	2.22	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:79:TRP:HZ2	45:Ca:118:PRO:HB2	1.77	0.46
48:CD:122:GLN:HE21	48:CD:125:VAL:H	1.63	0.46
49:CQ:156:PRO:CB	49:CQ:157:GLY:HA2	2.42	0.46
51:CA:159:SER:OG	51:CA:162:ASN:ND2	2.48	0.46
53:CT:26:PRO:CD	53:CT:26:PRO:O	2.63	0.46
53:CT:138:ALA:O	64:CF:83:VAL:O	2.34	0.46
54:CP:64:ASN:OD1	54:CP:64:ASN:O	2.30	0.46
55:CU:118:ASN:O	55:CU:119:GLN:C	2.57	0.46
56:CX:58:PRO:HA	85:A5:16:G:OP1	2.15	0.46
57:CY:65:GLN:CA	57:CY:67:ILE:HG13	2.45	0.46
59:CZ:48:ARG:HB3	59:CZ:69:LYS:HB3	1.97	0.46
59:CZ:73:LYS:HG3	59:CZ:75:TYR:CG	2.50	0.46
59:CZ:76:ASN:HD21	59:CZ:78:ASN:CB	2.19	0.46
60:Cr:26:SER:HB2	60:Cr:31:ASN:ND2	2.29	0.46
60:Cr:78:VAL:O	60:Cr:81:THR:C	2.58	0.46
63:CB:59:GLU:OE1	63:CB:69:LYS:CA	2.64	0.46
63:CB:108:GLU:CD	63:CB:137:TRP:CD2	2.93	0.46
66:Cd:23:ARG:CD	66:Cd:57:MET:SD	3.04	0.46
67:Ce:5:ARG:CD	67:Ce:6:PRO:HD3	2.46	0.46
74:CC:110:ARG:O	74:CC:110:ARG:CG	2.63	0.46
74:CC:211:TYR:CG	74:CC:214:ASP:OD1	2.64	0.46
77:Cp:29:ILE:HG21	77:Cp:69:TRP:CG	2.38	0.46
82:CG:217:LYS:HZ1	82:CG:220:GLU:CB	2.28	0.46
82:CG:240:ASN:O	82:CG:240:ASN:CG	2.59	0.46
83:Ct:16:LEU:HD23	84:Cv:30:VAL:HG13	1.97	0.46
85:A5:712:C:N4	85:A5:956:A:C6	2.83	0.46
86:A7:62:U:O2'	86:A7:64:G:H8	1.98	0.46
1:Az:5:THR:O	1:Az:9:ILE:HG13	2.16	0.46
1:Az:166:GLU:O	80:CH:100:PRO:HD2	2.14	0.46
1:Az:264:ARG:O	1:Az:288:THR:CG2	2.61	0.46
1:Az:559:LYS:HE3	1:Az:559:LYS:HB2	1.46	0.46
2:Ag:4:GLN:CG	2:Ag:5:MET:H	2.28	0.46
2:Ag:174:VAL:HB	2:Ag:188:HIS:HB2	1.96	0.46
3:AU:83:ARG:NH2	9:Ad:55:LEU:HD13	2.31	0.46
5:AO:105:THR:O	5:AO:106:LYS:CB	2.64	0.46
7:AM:33:ARG:CG	7:AM:33:ARG:NH1	2.74	0.46
8:AS:90:VAL:HG12	8:AS:91:LYS:CG	2.43	0.46
8:AS:103:LEU:CD1	8:AS:104:ASP:N	2.72	0.46
10:AN:94:LYS:CG	10:AN:118:ILE:HD13	2.43	0.46
10:AN:131:THR:O	10:AN:132:LYS:HD2	2.16	0.46
10:AN:134:VAL:HG22	10:AN:135:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:40:ILE:CD1	11:AL:68:ILE:HB	2.21	0.46
13:AP:49:LEU:HD12	13:AP:51:ARG:CD	2.38	0.46
14:AT:38:LYS:HD2	14:AT:46:ALA:HA	1.97	0.46
15:AB:71:LEU:CB	15:AB:84:PHE:CE2	2.98	0.46
15:AB:105:LEU:O	15:AB:106:THR:OG1	2.30	0.46
16:AA:7:VAL:CG2	17:AV:43:THR:HG21	2.44	0.46
19:AZ:77:LEU:C	19:AZ:78:LYS:HG2	2.38	0.46
19:AZ:104:ARG:C	19:AZ:104:ARG:HH11	2.23	0.46
23:AD:21:LEU:HD23	23:AD:21:LEU:HA	1.77	0.46
23:AD:217:ILE:HG22	23:AD:218:LEU:N	2.30	0.46
25:Af:108:VAL:HG22	25:Af:114:ILE:CA	2.45	0.46
26:AJ:124:HIS:CD2	36:B2:526:A:H5''	2.51	0.46
26:AJ:139:LYS:HD2	26:AJ:139:LYS:HA	1.52	0.46
26:AJ:179:LYS:HA	26:AJ:182:GLN:CG	2.46	0.46
28:AC:211:LYS:CD	28:AC:211:LYS:C	2.88	0.46
28:AC:242:ASP:O	28:AC:246:LYS:HG3	2.15	0.46
29:AG:84:TYR:CE2	29:AG:86:PRO:CG	2.88	0.46
29:AG:132:ARG:HA	58:CW:83:THR:HG23	1.97	0.46
30:AF:20:PHE:HZ	30:AF:50:PRO:HG3	1.80	0.46
31:AH:50:GLU:CD	31:AH:58:LYS:CE	2.88	0.46
33:AI:76:THR:HG22	33:AI:77:ARG:O	2.15	0.46
35:Ah:142:LEU:O	35:Ah:143:GLU:C	2.58	0.46
36:B2:96:C:H2'	36:B2:97:U:C6	2.50	0.46
36:B2:183:G:H2'	36:B2:184:G:C8	2.50	0.46
36:B2:1750:C:H2'	36:B2:1751:C:H5'	1.97	0.46
38:Cz:30:GLU:HG2	38:Cz:210:MET:H	1.80	0.46
38:Cz:80:VAL:CG1	38:Cz:148:VAL:HG23	2.33	0.46
39:Cq:26:LYS:CE	39:Cq:94:ASP:C	2.60	0.46
39:Cq:26:LYS:HZ1	39:Cq:94:ASP:H	1.64	0.46
39:Cq:116:ILE:O	39:Cq:116:ILE:HG13	2.15	0.46
39:Cq:168:GLY:H	39:Cq:171:GLU:CD	2.16	0.46
39:Cq:182:PRO:CB	39:Cq:183:PHE:CD2	2.99	0.46
40:CK:94:LYS:HE2	40:CK:96:LYS:HG3	1.97	0.46
40:CK:114:ARG:NE	40:CK:130:LYS:CE	2.78	0.46
41:CO:7:LEU:HD13	52:CS:167:PHE:CZ	2.28	0.46
42:CL:58:ILE:HG23	42:CL:70:VAL:CG1	2.43	0.46
42:CL:91:ALA:HA	42:CL:94:ILE:HD12	1.98	0.46
44:CM:32:ASP:CB	44:CM:35:ARG:HG3	2.40	0.46
44:CM:57:LEU:HD12	52:CS:154:LEU:CB	2.43	0.46
44:CM:86:TRP:CZ3	44:CM:89:THR:HG21	2.51	0.46
44:CM:116:LYS:O	44:CM:120:ASN:OD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:71:ARG:CZ	46:CN:73:ARG:HA	2.45	0.46
47:CI:212:LEU:O	47:CI:214:SER:N	2.48	0.46
48:CD:15:ARG:NH1	53:CT:19:PHE:HE1	2.14	0.46
48:CD:86:TYR:OH	48:CD:252:VAL:HG22	2.15	0.46
49:CQ:19:LYS:O	49:CQ:19:LYS:HE3	2.13	0.46
49:CQ:71:LYS:HA	49:CQ:71:LYS:HD3	1.50	0.46
49:CQ:105:VAL:CG1	49:CQ:110:ARG:N	2.78	0.46
51:CA:207:VAL:HG23	51:CA:208:GLU:HG2	1.98	0.46
52:CS:36:ASN:O	52:CS:37:HIS:C	2.56	0.46
53:CT:147:GLU:CD	53:CT:147:GLU:N	2.72	0.46
56:CX:79:PHE:CE2	56:CX:99:ILE:CG2	2.96	0.46
58:CW:9:SER:HB2	58:CW:51:TRP:CZ3	2.51	0.46
58:CW:88:ALA:O	58:CW:89:ASP:C	2.59	0.46
59:CZ:5:MET:O	59:CZ:9:LYS:HB2	2.16	0.46
59:CZ:99:ASP:O	59:CZ:106:LEU:CD2	2.64	0.46
60:Cr:77:TYR:O	60:Cr:77:TYR:CG	2.67	0.46
62:Cb:36:ASP:O	62:Cb:37:PRO:O	2.34	0.46
63:CB:118:PHE:CZ	63:CB:130:PHE:HE2	2.33	0.46
65:Cc:82:GLY:CA	65:Cc:91:VAL:CG2	2.93	0.46
67:Ce:118:LEU:O	67:Ce:119:ALA:HB3	2.14	0.46
71:Cj:13:ASN:O	85:A5:1534:A:C4	2.68	0.46
74:CC:5:ARG:HB3	74:CC:24:LEU:HG	1.87	0.46
74:CC:31:PRO:HG2	74:CC:122:TYR:CZ	2.50	0.46
74:CC:205:ARG:HD3	74:CC:205:ARG:HA	1.57	0.46
78:Co:24:THR:OG1	78:Co:24:THR:O	2.33	0.46
80:CH:36:ARG:CD	80:CH:38:PHE:CE1	2.99	0.46
80:CH:106:GLN:N	80:CH:107:GLU:OE1	2.47	0.46
81:CE:138:ARG:O	81:CE:139:LYS:CB	2.62	0.46
82:CG:82:GLN:OE1	82:CG:233:ILE:CB	2.62	0.46
84:Cu:51:ILE:CG2	84:Cu:55:ILE:HD11	2.45	0.46
85:A5:307:A:H2'	85:A5:308:G:N3	2.31	0.46
85:A5:962:C:N3	85:A5:2264:C:C5	2.83	0.46
85:A5:1345:A:N6	85:A5:1511:U:H3	2.06	0.46
85:A5:4937:C:H4'	85:A5:4938:A:OP2	2.15	0.46
1:Az:39:LEU:O	1:Az:43:ALA:N	2.47	0.46
1:Az:81:LEU:CB	1:Az:86:LEU:CD1	2.93	0.46
1:Az:352:GLN:O	1:Az:356:ILE:HG22	2.16	0.46
1:Az:691:ALA:HB3	1:Az:734:LEU:HD21	1.97	0.46
2:Ag:21:ILE:HG22	2:Ag:22:ALA:N	2.29	0.46
2:Ag:187:ASN:HD22	23:AD:227:LYS:CE	2.28	0.46
3:AU:27:ARG:CZ	3:AU:82:MET:CG	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:30:PRO:HA	4:AK:41:PRO:HB3	1.97	0.46
5:AO:37:PHE:CD1	5:AO:110:PRO:HD3	2.50	0.46
6:AX:94:ILE:CD1	6:AX:122:VAL:HG11	2.37	0.46
6:AX:125:VAL:O	6:AX:128:VAL:CB	2.64	0.46
7:AM:13:ASP:O	7:AM:14:VAL:C	2.58	0.46
8:AS:55:ARG:HB2	8:AS:58:GLU:HG3	1.96	0.46
8:AS:138:THR:CA	8:AS:141:ARG:CZ	2.65	0.46
10:AN:5:HIS:HD2	10:AN:121:ARG:NE	2.09	0.46
11:AL:5:GLN:CG	33:AI:197:PHE:CD2	2.98	0.46
13:AP:43:ARG:HD3	13:AP:43:ARG:HA	1.38	0.46
13:AP:56:LEU:CD2	13:AP:78:THR:HG22	2.44	0.46
14:AT:31:PRO:HG3	14:AT:102:ARG:HG3	1.91	0.46
16:AA:8:LEU:HD12	16:AA:192:GLU:OE1	2.15	0.46
16:AA:158:ASP:CB	17:AV:65:SER:HB2	2.43	0.46
18:AY:12:PHE:CZ	18:AY:21:LYS:HB2	2.44	0.46
18:AY:19:GLN:CB	18:AY:81:TYR:HB3	2.46	0.46
22:Ac:48:GLY:CA	30:AF:145:ARG:CG	2.63	0.46
22:Ac:63:ARG:HH11	30:AF:204:ARG:HG3	1.79	0.46
22:Ac:66:ARG:O	22:Ac:68:LEU:HD23	2.15	0.46
23:AD:146:ARG:HD3	23:AD:146:ARG:HA	1.63	0.46
23:AD:217:ILE:HG22	23:AD:218:LEU:HB3	1.98	0.46
24:Ae:29:THR:HG21	36:B2:524:U:H3'	1.98	0.46
24:Ae:31:ARG:HG2	26:AJ:38:ARG:HA	1.93	0.46
26:AJ:66:LYS:C	26:AJ:71:LEU:CD1	2.89	0.46
26:AJ:87:LEU:HG	26:AJ:88:ASP:N	2.30	0.46
26:AJ:101:LYS:N	26:AJ:101:LYS:HD2	2.31	0.46
26:AJ:110:LEU:HB3	26:AJ:111:GLN:H	1.48	0.46
26:AJ:114:VAL:C	26:AJ:120:ALA:HB3	2.41	0.46
26:AJ:165:TYR:CZ	36:B2:561:A:H5'	2.51	0.46
28:AC:182:CYS:SG	28:AC:250:TYR:CE1	3.04	0.46
29:AG:28:TYR:C	29:AG:30:LYS:N	2.74	0.46
29:AG:143:LYS:HE3	29:AG:143:LYS:N	2.30	0.46
29:AG:168:LYS:HD2	36:B2:72:C:C5	2.50	0.46
30:AF:91:ARG:NH1	30:AF:94:LYS:HG3	2.10	0.46
30:AF:163:PHE:CD2	30:AF:164:ARG:HG2	2.50	0.46
31:AH:107:LYS:C	31:AH:109:ARG:CA	2.82	0.46
31:AH:153:LEU:CD2	31:AH:184:ASP:HB2	2.46	0.46
34:AQ:41:MET:O	34:AQ:43:GLU:N	2.48	0.46
36:B2:572:U:H6	36:B2:572:U:O5'	1.98	0.46
38:Cz:110:PHE:CE2	38:Cz:133:LYS:HD3	2.42	0.46
38:Cz:123:ILE:HD12	38:Cz:123:ILE:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:Cq:28:PHE:CD1	39:Cq:189:ILE:CD1	2.99	0.46
39:Cq:40:MET:HE3	39:Cq:44:ARG:CZ	2.46	0.46
39:Cq:143:ILE:CD1	39:Cq:160:LEU:HD21	2.45	0.46
43:CV:32:THR:HG22	43:CV:113:LYS:CG	2.41	0.46
43:CV:83:ARG:HH11	43:CV:120:PRO:HD2	1.79	0.46
45:Ca:89:ASN:OD1	45:Ca:90:ALA:HB3	2.15	0.46
46:CN:44:ARG:HH11	46:CN:47:LYS:HB2	1.80	0.46
46:CN:149:GLN:C	46:CN:151:ILE:N	2.71	0.46
48:CD:68:ARG:HB2	48:CD:71:GLY:O	2.16	0.46
48:CD:137:GLY:C	48:CD:138:GLN:CG	2.83	0.46
50:CR:66:ASN:O	50:CR:70:ARG:CD	2.64	0.46
51:CA:44:ILE:HG22	51:CA:87:PHE:HD1	1.76	0.46
51:CA:179:ILE:O	51:CA:180:LEU:HB3	2.15	0.46
51:CA:234:LYS:HG2	51:CA:238:ILE:HD12	1.98	0.46
52:CS:164:LYS:CD	52:CS:165:PRO:HD2	2.45	0.46
52:CS:173:ASN:ND2	52:CS:174:THR:HG22	2.29	0.46
53:CT:79:GLN:O	53:CT:80:VAL:HG23	2.15	0.46
56:CX:153:ILE:HG12	56:CX:155:ILE:HG22	1.97	0.46
57:CY:61:HIS:N	57:CY:61:HIS:ND1	2.61	0.46
59:CZ:16:GLY:O	59:CZ:19:SER:CA	2.60	0.46
59:CZ:17:ARG:CA	69:Cg:76:ARG:HB2	2.45	0.46
62:Cb:50:ASN:C	62:Cb:51:LYS:HE2	2.37	0.46
63:CB:199:GLU:HA	63:CB:199:GLU:OE2	2.16	0.46
66:Cd:26:THR:HG23	66:Cd:26:THR:O	2.14	0.46
66:Cd:33:ILE:O	66:Cd:33:ILE:CG2	2.63	0.46
66:Cd:61:ASP:O	66:Cd:62:VAL:HG22	2.16	0.46
68:Cf:42:TYR:OH	81:CE:283:PRO:HB2	2.16	0.46
69:Cg:41:ALA:C	69:Cg:52:ARG:CG	2.81	0.46
74:CC:66:SER:HA	74:CC:77:PRO:HA	1.97	0.46
75:Cm:84:GLN:HA	75:Cm:87:GLN:CG	2.36	0.46
78:Co:68:LEU:CG	78:Co:83:LEU:CD1	2.94	0.46
79:CJ:113:ILE:H	79:CJ:113:ILE:CD1	2.09	0.46
81:CE:224:LYS:HG2	81:CE:226:ARG:NH1	2.24	0.46
81:CE:246:ARG:O	81:CE:250:GLN:HG3	2.15	0.46
83:Ct:17:HIS:NE2	83:Ct:23:VAL:CG2	2.53	0.46
84:Cu:20:ALA:O	84:Cu:24:LYS:HG3	2.15	0.46
86:A7:38:U:C2	86:A7:40:U:H5''	2.49	0.46
86:A7:48:G:HO2'	86:A7:49:A:C1'	2.15	0.46
1:Az:409:ARG:C	1:Az:410:PHE:CD1	2.94	0.46
1:Az:432:PRO:CB	1:Az:497:MET:HE1	2.33	0.46
1:Az:481:LYS:HE3	1:Az:532:PRO:CB	1.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:751:CYS:SG	1:Az:756:VAL:CA	3.04	0.46
2:Ag:164:ILE:CG2	2:Ag:176:VAL:HG13	2.46	0.46
2:Ag:172:LYS:O	2:Ag:172:LYS:HD3	2.16	0.46
3:AU:26:SER:OG	3:AU:27:ARG:N	2.49	0.46
3:AU:107:GLU:OE2	23:AD:40:ARG:NE	2.49	0.46
4:AK:11:ILE:CD1	4:AK:45:VAL:HG22	2.45	0.46
4:AK:64:TRP:O	4:AK:65:ARG:CG	2.63	0.46
7:AM:34:GLY:HA3	36:B2:1286:G:O6	2.15	0.46
8:AS:88:LYS:N	8:AS:95:TYR:CE1	2.77	0.46
11:AL:42:LEU:HB2	11:AL:44:PHE:CE2	2.50	0.46
11:AL:95:TYR:C	11:AL:96:ILE:HD12	2.40	0.46
12:AR:87:GLU:O	12:AR:88:VAL:HB	2.15	0.46
13:AP:9:LYS:O	13:AP:10:ARG:NE	2.49	0.46
13:AP:12:PHE:HE2	79:CJ:88:LYS:HD2	1.72	0.46
13:AP:17:TYR:CE2	13:AP:25:LEU:CD2	2.98	0.46
14:AT:42:HIS:HE1	14:AT:93:SER:HB3	1.73	0.46
15:AB:93:GLY:O	15:AB:94:LYS:HG2	2.15	0.46
15:AB:175:GLU:OE1	15:AB:187:LYS:NZ	2.47	0.46
16:AA:58:LEU:HA	16:AA:161:ILE:HG12	1.98	0.46
16:AA:70:ASN:O	16:AA:73:ASP:OD1	2.33	0.46
16:AA:118:GLU:CD	28:AC:65:LYS:HZ3	2.18	0.46
18:AY:68:LYS:C	18:AY:69:THR:HG23	2.41	0.46
21:Ab:6:ASP:C	21:Ab:8:LEU:H	2.23	0.46
23:AD:145:GLN:CG	23:AD:146:ARG:N	2.77	0.46
24:Ae:6:LEU:C	24:Ae:8:ARG:N	2.73	0.46
26:AJ:124:HIS:O	26:AJ:127:ARG:N	2.49	0.46
28:AC:133:TYR:O	28:AC:218:GLY:HA3	2.15	0.46
29:AG:188:LYS:C	29:AG:191:ARG:HG2	2.41	0.46
30:AF:98:GLU:O	30:AF:102:LEU:HG	2.15	0.46
30:AF:112:LEU:HA	30:AF:177:LEU:HD13	1.96	0.46
31:AH:14:GLU:CG	31:AH:15:LYS:O	2.64	0.46
34:AQ:45:ARG:O	34:AQ:48:GLN:HB3	2.15	0.46
34:AQ:50:LYS:NZ	34:AQ:117:ARG:HH11	2.14	0.46
36:B2:163:U:O2'	36:B2:164:A:H5'	2.15	0.46
38:Cz:61:PRO:HG3	38:Cz:171:HIS:CE1	2.48	0.46
38:Cz:97:LYS:HE2	38:Cz:102:LYS:HE3	1.98	0.46
38:Cz:147:LYS:HE2	38:Cz:147:LYS:CA	2.25	0.46
39:Cq:221:ASN:HB3	84:Cu:55:ILE:HG21	1.97	0.46
41:CO:12:ARG:HG2	52:CS:171:ARG:NH2	2.30	0.46
42:CL:83:VAL:CG2	42:CL:110:LEU:HD11	2.46	0.46
44:CM:13:ALA:HB2	44:CM:55:MET:CE	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:11:TRP:CD1	46:CN:44:ARG:HH12	2.33	0.46
46:CN:34:SER:C	46:CN:65:ARG:HH11	2.24	0.46
47:CI:187:LYS:HD3	47:CI:187:LYS:HA	1.58	0.46
48:CD:142:PHE:CD2	48:CD:171:LEU:CD2	2.99	0.46
49:CQ:31:LEU:HD23	74:CC:293:LEU:CD2	2.45	0.46
49:CQ:34:PHE:O	49:CQ:38:ARG:HG2	2.16	0.46
51:CA:145:LYS:HD3	51:CA:157:VAL:HG12	1.97	0.46
51:CA:219:ILE:CG2	51:CA:220:GLY:N	2.52	0.46
52:CS:19:THR:O	52:CS:21:LYS:N	2.48	0.46
57:CY:5:PRO:HD2	57:CY:6:PHE:H	1.81	0.46
57:CY:51:LYS:HG3	57:CY:71:VAL:O	2.16	0.46
58:CW:2:LYS:CB	58:CW:2:LYS:HZ2	2.23	0.46
58:CW:88:ALA:N	58:CW:91:MET:SD	2.88	0.46
59:CZ:73:LYS:CG	59:CZ:75:TYR:CG	2.99	0.46
60:Cr:123:PRO:HB3	60:Cr:127:LYS:CG	2.46	0.46
63:CB:107:ALA:HA	63:CB:201:LEU:CD2	2.25	0.46
63:CB:116:ARG:HD2	63:CB:122:TRP:CG	2.40	0.46
63:CB:159:VAL:HG13	63:CB:184:GLN:HE22	1.72	0.46
63:CB:235:TRP:CG	63:CB:267:ALA:HB1	2.49	0.46
64:CF:87:PRO:HG2	64:CF:144:TYR:CZ	2.50	0.46
64:CF:183:GLY:O	64:CF:184:ILE:C	2.57	0.46
66:Cd:91:LYS:N	66:Cd:103:TYR:O	2.45	0.46
66:Cd:94:GLU:HB3	66:Cd:95:ASP:OD2	2.16	0.46
67:Ce:5:ARG:HH11	67:Ce:93:LYS:HG2	1.81	0.46
67:Ce:70:LEU:O	67:Ce:71:PRO:C	2.57	0.46
70:CI:62:LYS:C	70:CI:63:VAL:CG2	2.81	0.46
72:Ck:23:VAL:CG1	72:Ck:24:LYS:N	2.79	0.46
74:CC:72:ALA:O	74:CC:73:VAL:HG23	2.16	0.46
79:CJ:13:ARG:O	79:CJ:13:ARG:HD2	2.16	0.46
80:CH:25:VAL:HG23	80:CH:36:ARG:H	1.80	0.46
80:CH:188:GLN:O	80:CH:191:ASP:O	2.33	0.46
81:CE:190:HIS:HB2	85:A5:4941:G:H1'	1.98	0.46
81:CE:208:ILE:HG22	81:CE:209:PRO:N	2.30	0.46
81:CE:287:VAL:HG23	81:CE:288:PHE:H	1.80	0.46
82:CG:75:LYS:HZ3	82:CG:240:ASN:CG	2.01	0.46
83:Ct:23:VAL:O	83:Ct:24:THR:CG2	2.63	0.46
85:A5:2672:C:H2'	85:A5:2673:G:H21	1.80	0.46
1:Az:113:SER:HB2	1:Az:499:PHE:CG	2.51	0.46
1:Az:714:ILE:HD12	35:Ah:163:ARG:HA	1.97	0.46
2:Ag:297:THR:HG22	2:Ag:298:LEU:N	2.30	0.46
3:AU:69:PRO:HB3	9:Ad:41:GLN:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:40:VAL:HA	4:AK:41:PRO:HD3	1.65	0.46
4:AK:94:LEU:O	4:AK:95:ARG:HB2	2.15	0.46
8:AS:50:ILE:O	8:AS:52:LEU:N	2.49	0.46
8:AS:90:VAL:HG12	8:AS:91:LYS:CD	2.44	0.46
11:AL:59:LYS:HD3	11:AL:134:LEU:HD21	1.97	0.46
11:AL:125:ILE:HB	11:AL:146:THR:HG22	1.92	0.46
12:AR:19:LYS:NZ	23:AD:212:GLU:CG	2.78	0.46
12:AR:40:ILE:N	23:AD:209:SER:O	2.45	0.46
14:AT:83:GLN:HE22	14:AT:85:ASN:CA	2.26	0.46
16:AA:66:VAL:HA	16:AA:186:ARG:HD2	1.98	0.46
16:AA:76:VAL:CG1	16:AA:87:VAL:CG1	2.88	0.46
16:AA:191:ARG:CD	16:AA:193:HIS:HB2	2.45	0.46
17:AV:38:GLU:OE1	17:AV:49:GLN:HB3	2.15	0.46
21:Ab:26:GLN:HG3	21:Ab:27:SER:HA	1.97	0.46
24:Ae:40:ARG:O	24:Ae:44:ASN:CB	2.64	0.46
26:AJ:113:GLN:OE1	26:AJ:116:LYS:HD3	2.15	0.46
27:AE:46:ILE:HA	27:AE:50:ASN:HB2	1.97	0.46
27:AE:89:VAL:O	27:AE:90:ILE:HB	2.16	0.46
28:AC:206:SER:OG	28:AC:224:THR:HG21	2.15	0.46
28:AC:259:THR:C	28:AC:261:PHE:N	2.68	0.46
29:AG:65:GLN:C	29:AG:100:CYS:SG	2.99	0.46
29:AG:129:VAL:C	58:CW:80:ARG:NH1	2.74	0.46
30:AF:28:VAL:HG22	30:AF:110:GLN:CG	2.38	0.46
30:AF:46:ALA:O	30:AF:47:LYS:CD	2.39	0.46
31:AH:10:LYS:NZ	31:AH:16:PRO:C	2.74	0.46
31:AH:84:GLU:O	31:AH:88:SER:HA	2.16	0.46
31:AH:188:GLU:HG2	31:AH:189:PHE:N	2.30	0.46
34:AQ:19:ALA:CA	34:AQ:74:GLY:C	2.89	0.46
34:AQ:50:LYS:HZ1	34:AQ:117:ARG:NH1	2.13	0.46
34:AQ:51:LEU:O	34:AQ:54:PRO:HD2	2.16	0.46
36:B2:1443:C:C5	36:B2:1444:U:C5	3.04	0.46
38:Cz:70:ASP:O	38:Cz:71:GLN:HB2	2.16	0.46
38:Cz:152:LYS:O	38:Cz:152:LYS:HG2	2.15	0.46
39:Cq:143:ILE:HD11	39:Cq:160:LEU:HD13	1.98	0.46
39:Cq:179:ASN:O	39:Cq:180:ILE:C	2.58	0.46
40:CK:36:GLY:O	40:CK:37:LEU:HB2	2.15	0.46
42:CL:58:ILE:HG12	42:CL:157:VAL:CG1	2.45	0.46
45:Ca:11:LEU:HD12	45:Ca:17:HIS:CE1	2.50	0.46
45:Ca:79:TRP:CH2	45:Ca:92:LYS:CG	2.98	0.46
45:Ca:112:LEU:HD23	45:Ca:130:SER:HB3	1.98	0.46
45:Ca:146:LEU:O	70:Ci:6:PRO:CG	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:6:TYR:CZ	70:CI:40:VAL:CG2	2.83	0.46
47:CI:144:ASN:O	47:CI:145:GLU:C	2.59	0.46
48:CD:107:ARG:HH22	48:CD:120:GLU:C	2.16	0.46
49:CQ:160:HIS:O	49:CQ:161:SER:OG	2.33	0.46
51:CA:137:ILE:CD1	51:CA:149:LYS:HE2	2.45	0.46
52:CS:13:VAL:HB	52:CS:29:ARG:HG2	1.96	0.46
52:CS:19:THR:O	52:CS:21:LYS:CB	2.64	0.46
55:CU:24:ASP:HB3	55:CU:111:GLU:OE2	2.15	0.46
56:CX:153:ILE:CD1	61:Ch:33:VAL:HG11	2.34	0.46
57:CY:79:VAL:HG13	57:CY:99:ILE:O	2.16	0.46
59:CZ:109:LYS:HE3	59:CZ:109:LYS:HB2	1.55	0.46
60:Cr:77:TYR:C	60:Cr:78:VAL:HG22	2.41	0.46
63:CB:11:HIS:HD1	63:CB:236:HIS:C	2.13	0.46
63:CB:229:LYS:HA	63:CB:229:LYS:HD2	1.34	0.46
63:CB:257:TRP:O	63:CB:257:TRP:CD1	2.63	0.46
67:Ce:41:ILE:HG22	67:Ce:42:ASP:OD2	2.16	0.46
67:Ce:57:ASN:OD1	67:Ce:57:ASN:O	2.33	0.46
69:Cg:23:SER:O	69:Cg:31:VAL:N	2.43	0.46
69:Cg:46:CYS:HB2	69:Cg:86:CYS:HG	1.77	0.46
71:Cj:17:THR:HG23	71:Cj:18:LEU:O	2.16	0.46
71:Cj:59:THR:HG22	87:A8:41:A:O2'	2.15	0.46
74:CC:31:PRO:CG	74:CC:280:PRO:HB2	2.46	0.46
74:CC:90:GLY:CA	74:CC:96:CYS:HB3	2.42	0.46
75:Cm:94:MET:SD	75:Cm:123:PRO:CB	3.04	0.46
81:CE:38:LYS:HZ1	81:CE:39:LYS:NZ	2.14	0.46
82:CG:102:TYR:OH	82:CG:207:VAL:HG13	2.16	0.46
83:Cs:22:THR:H	83:Cs:27:LYS:HZ3	1.57	0.46
83:Ct:31:LEU:CD2	84:Cv:30:VAL:N	2.79	0.46
85:A5:173:C:O5'	85:A5:173:C:H6	1.99	0.46
85:A5:1831:G:H2'	85:A5:1832:C:C6	2.51	0.46
1:Az:33:SER:HA	1:Az:57:THR:HG21	1.98	0.46
1:Az:713:ALA:HA	1:Az:716:ARG:CZ	2.46	0.46
1:Az:745:TYR:CA	1:Az:815:ASP:HB2	2.46	0.46
2:Ag:64:HIS:ND1	2:Ag:65:PHE:CD2	2.84	0.46
4:AK:17:LYS:HZ1	35:Ah:287:GLU:CG	2.14	0.46
4:AK:85:LEU:HD13	4:AK:89:ILE:HG13	1.98	0.46
5:AO:30:VAL:HG23	5:AO:45:THR:OG1	2.16	0.46
5:AO:106:LYS:HZ3	20:Aa:69:VAL:HG13	1.77	0.46
6:AX:21:LYS:HD2	6:AX:27:TYR:CG	2.51	0.46
6:AX:105:PHE:CB	6:AX:112:VAL:HG21	2.46	0.46
7:AM:12:MET:CG	7:AM:16:THR:HG22	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AS:39:ARG:NE	14:AT:38:LYS:HE2	2.17	0.46
8:AS:40:TYR:CD1	8:AS:44:VAL:CG2	2.99	0.46
8:AS:85:ASN:HD21	8:AS:98:VAL:CB	2.29	0.46
10:AN:27:LYS:CD	10:AN:28:LEU:H	2.28	0.46
12:AR:100:PRO:CB	12:AR:119:VAL:HG22	2.37	0.46
13:AP:4:VAL:O	13:AP:4:VAL:CG1	2.49	0.46
13:AP:127:LYS:CE	13:AP:128:HIS:N	2.73	0.46
18:AY:19:GLN:CG	18:AY:81:TYR:CD1	2.71	0.46
18:AY:29:HIS:CD2	18:AY:34:THR:N	2.78	0.46
18:AY:44:LEU:HD12	18:AY:48:TYR:HD2	1.81	0.46
23:AD:108:LYS:HA	23:AD:113:LEU:HD21	1.97	0.46
23:AD:117:ARG:HG3	35:Ah:186:ASP:HA	1.98	0.46
24:Ae:49:PHE:O	24:Ae:49:PHE:HD2	1.99	0.46
25:Af:85:TYR:C	25:Af:86:THR:CG2	2.89	0.46
26:AJ:144:ILE:C	26:AJ:146:SER:N	2.72	0.46
26:AJ:169:ARG:HB3	26:AJ:175:ARG:NH1	2.26	0.46
27:AE:128:LYS:HB3	27:AE:128:LYS:HE2	1.65	0.46
28:AC:176:LYS:HA	28:AC:177:PRO:HD3	1.56	0.46
30:AF:15:PRO:CD	34:AQ:56:LEU:HB3	2.41	0.46
30:AF:55:ARG:O	30:AF:55:ARG:HG3	2.15	0.46
30:AF:103:LEU:O	30:AF:103:LEU:CG	2.64	0.46
33:AI:119:LEU:N	33:AI:120:PRO:CD	2.78	0.46
34:AQ:81:ILE:O	34:AQ:84:ILE:HG12	2.15	0.46
34:AQ:117:ARG:C	34:AQ:118:THR:HG1	2.07	0.46
36:B2:1069:U:H2'	36:B2:1070:A:C8	2.51	0.46
36:B2:1085:C:C2	36:B2:1087:A:O4'	2.69	0.46
36:B2:1220:A:H2	36:B2:1646:C:H42	1.62	0.46
36:B2:1408:U:H2'	36:B2:1409:A:O4'	2.16	0.46
38:Cz:147:LYS:NZ	38:Cz:150:GLU:HB2	2.30	0.46
39:Cq:131:GLY:N	40:CK:35:LEU:HD21	2.29	0.46
40:CK:80:LEU:CA	40:CK:83:LYS:HD2	2.41	0.46
40:CK:86:LYS:HA	40:CK:104:ILE:HD13	1.98	0.46
40:CK:116:MET:CG	40:CK:117:ARG:NH2	2.79	0.46
41:CO:16:LEU:HD23	41:CO:41:ILE:HG12	1.81	0.46
41:CO:178:ARG:HG2	41:CO:182:GLU:OE2	2.14	0.46
41:CO:185:VAL:CA	41:CO:188:LYS:HB2	2.46	0.46
42:CL:18:TRP:CE3	42:CL:22:VAL:CG2	2.99	0.46
42:CL:159:ASN:O	42:CL:160:VAL:O	2.34	0.46
43:CV:16:ILE:HD11	43:CV:57:VAL:N	2.31	0.46
45:Ca:14:HIS:CD2	45:Ca:14:HIS:H	2.34	0.46
45:Ca:140:VAL:CG1	45:Ca:140:VAL:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:169:ARG:HB3	46:CN:169:ARG:HH21	1.77	0.46
47:CI:98:ARG:HH11	85:A5:1865:G:P	2.39	0.46
48:CD:64:ILE:HD13	48:CD:109:LEU:HD13	1.97	0.46
48:CD:273:LEU:HD11	48:CD:277:LYS:NZ	2.31	0.46
49:CQ:31:LEU:C	49:CQ:31:LEU:CD2	2.89	0.46
49:CQ:41:SER:C	49:CQ:43:PHE:H	2.23	0.46
49:CQ:66:MET:O	49:CQ:70:MET:HG2	2.15	0.46
50:CR:76:MET:O	50:CR:81:ARG:HD2	2.15	0.46
51:CA:118:GLU:CG	51:CA:119:LYS:N	2.67	0.46
51:CA:242:ARG:CG	51:CA:243:THR:H	2.24	0.46
53:CT:18:PRO:O	53:CT:19:PHE:C	2.58	0.46
53:CT:107:LYS:HD2	53:CT:107:LYS:HA	1.32	0.46
54:CP:109:VAL:HG12	54:CP:110:ASP:CA	2.45	0.46
55:CU:23:LEU:CD2	55:CU:110:TYR:C	2.88	0.46
55:CU:40:GLU:OE1	55:CU:65:ARG:CG	2.64	0.46
56:CX:153:ILE:HG12	56:CX:155:ILE:CG2	2.45	0.46
57:CY:89:LYS:CE	57:CY:90:ALA:HB3	2.45	0.46
58:CW:34:ALA:CB	58:CW:37:GLU:OE1	2.63	0.46
62:Cb:31:SER:C	62:Cb:33:LYS:H	2.24	0.46
63:CB:394:LYS:O	63:CB:396:ARG:HD3	2.16	0.46
66:Cd:41:ARG:N	66:Cd:43:PRO:HD3	2.31	0.46
68:Cf:11:PHE:CE1	68:Cf:92:LEU:HD12	2.50	0.46
68:Cf:36:ARG:HG2	68:Cf:77:ALA:HB1	1.97	0.46
69:Cg:5:LEU:HD21	69:Cg:22:LEU:HD21	1.98	0.46
70:Ci:12:ASN:ND2	70:Ci:13:LYS:N	2.63	0.46
70:Ci:25:ARG:O	70:Ci:26:HIS:C	2.58	0.46
71:Cj:16:HIS:O	71:Cj:25:LYS:HD3	2.16	0.46
72:Ck:21:LYS:O	72:Ck:65:ALA:HB2	2.15	0.46
72:Ck:51:GLU:C	72:Ck:51:GLU:CD	2.84	0.46
74:CC:22:VAL:CG1	74:CC:257:PHE:CE2	2.99	0.46
74:CC:94:ASN:HD21	85:A5:1520:C:H4'	1.80	0.46
74:CC:322:LEU:O	74:CC:323:ARG:C	2.58	0.46
79:CJ:90:ARG:NE	79:CJ:108:GLY:O	2.49	0.46
80:CH:189:GLN:O	80:CH:191:ASP:N	2.48	0.46
81:CE:109:LEU:CD1	81:CE:110:ARG:H	2.29	0.46
81:CE:126:LEU:HG	81:CE:133:PHE:CE2	2.50	0.46
81:CE:239:LYS:HA	85:A5:4939:C:C4	2.51	0.46
82:CG:57:TRP:CD2	82:CG:65:ARG:NH1	2.84	0.46
82:CG:81:ASN:CG	82:CG:238:GLY:H	2.21	0.46
83:Cs:18:ASP:HB2	84:Cu:2:ARG:HG2	1.98	0.46
83:Cs:60:ILE:O	83:Cs:63:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:1494:U:O2	85:A5:1494:U:H2'	2.14	0.46
85:A5:1861:U:H3	85:A5:1873:A:H61	1.62	0.46
85:A5:4229:U:C2	85:A5:4336:A:C2	3.04	0.46
85:A5:4321:U:H3	85:A5:4326:G:H1	1.64	0.46
1:Az:111:PHE:CG	1:Az:141:THR:HG23	2.51	0.46
1:Az:633:ARG:NH1	36:B2:1319:U:H5''	2.31	0.46
1:Az:746:LEU:CD2	1:Az:785:LYS:HZ2	2.25	0.46
3:AU:44:LYS:O	3:AU:45:GLU:C	2.58	0.46
3:AU:77:TRP:CZ2	36:B2:1668:U:H5'	2.50	0.46
4:AK:80:ARG:HA	4:AK:85:LEU:HD11	1.98	0.46
5:AO:137:SER:CB	36:B2:942:G:H21	2.28	0.46
7:AM:85:LEU:O	7:AM:85:LEU:HD23	2.15	0.46
8:AS:23:ARG:HD3	19:AZ:48:VAL:CG2	2.46	0.46
8:AS:73:ASN:O	8:AS:76:GLN:OE1	2.34	0.46
12:AR:6:THR:O	12:AR:10:LYS:HG2	2.15	0.46
12:AR:92:ASP:OD2	16:AA:20:ALA:HB1	2.16	0.46
13:AP:4:VAL:C	13:AP:10:ARG:HH11	2.19	0.46
15:AB:19:LYS:HE2	15:AB:19:LYS:HB3	1.46	0.46
15:AB:53:GLN:O	15:AB:56:LYS:N	2.49	0.46
15:AB:228:LEU:HD21	15:AB:232:HIS:NE2	2.31	0.46
21:Ab:64:CYS:SG	21:Ab:73:LEU:CG	2.97	0.46
22:Ac:59:LEU:CD1	30:AF:123:GLU:HB3	2.46	0.46
23:AD:132:LYS:HB3	23:AD:189:MET:O	2.15	0.46
23:AD:158:ILE:O	23:AD:158:ILE:HG12	2.15	0.46
26:AJ:32:ILE:C	26:AJ:35:TYR:O	2.59	0.46
26:AJ:100:LEU:HD12	26:AJ:101:LYS:H	1.80	0.46
26:AJ:114:VAL:O	26:AJ:120:ALA:HB3	2.15	0.46
26:AJ:169:ARG:HG2	26:AJ:175:ARG:NH1	2.31	0.46
28:AC:209:VAL:N	28:AC:210:PRO:CD	2.79	0.46
33:AI:129:LEU:O	33:AI:134:GLU:CB	2.64	0.46
35:Ah:153:VAL:O	35:Ah:156:PRO:CD	2.63	0.46
36:B2:218:U:O2'	36:B2:305:U:N3	2.49	0.46
36:B2:327:G:H1'	36:B2:328:U:C6	2.51	0.46
39:Cq:45:MET:O	39:Cq:48:ARG:N	2.33	0.46
40:CK:12:VAL:HG11	40:CK:65:GLN:OE1	2.10	0.46
40:CK:39:PRO:CA	40:CK:40:LYS:HE2	2.46	0.46
40:CK:52:ASP:CB	40:CK:53:TRP:CD1	2.98	0.46
40:CK:142:ASN:ND2	40:CK:151:ILE:HD13	2.31	0.46
41:CO:190:ASP:CA	41:CO:191:LYS:CB	2.94	0.46
42:CL:84:ALA:HB2	42:CL:117:LEU:HD12	1.98	0.46
42:CL:152:GLY:O	42:CL:153:PRO:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CV:43:LYS:HD3	43:CV:43:LYS:HA	1.48	0.46
43:CV:89:ARG:CD	43:CV:95:PHE:CE2	2.99	0.46
44:CM:6:PHE:HA	52:CS:152:PHE:C	2.40	0.46
46:CN:4:TYR:HA	46:CN:46:ASP:OD2	2.16	0.46
48:CD:33:ARG:HH12	48:CD:50:ARG:HH22	1.62	0.46
48:CD:52:ILE:O	48:CD:62:CYS:HA	2.16	0.46
48:CD:186:GLU:H	48:CD:186:GLU:HG3	1.38	0.46
48:CD:209:ARG:O	48:CD:213:GLU:OE1	2.32	0.46
49:CQ:41:SER:OG	49:CQ:44:ASN:HB2	2.16	0.46
49:CQ:57:ASN:C	49:CQ:59:PRO:CD	2.88	0.46
49:CQ:67:ILE:CG1	49:CQ:92:VAL:HG11	2.32	0.46
49:CQ:78:LYS:CE	49:CQ:78:LYS:N	2.79	0.46
49:CQ:151:HIS:CE1	49:CQ:164:LYS:HD2	2.49	0.46
50:CR:6:LEU:HD23	50:CR:6:LEU:HA	1.79	0.46
51:CA:173:GLY:O	77:Cp:69:TRP:CE3	2.56	0.46
54:CP:124:LYS:HD2	54:CP:140:MET:HE3	1.96	0.46
58:CW:27:LYS:HE2	58:CW:29:PHE:CE2	2.46	0.46
59:CZ:16:GLY:C	59:CZ:18:TYR:N	2.71	0.46
60:Cr:91:SER:O	60:Cr:95:HIS:CD2	2.68	0.46
60:Cr:118:LEU:O	60:Cr:122:LYS:CG	2.64	0.46
63:CB:4:ARG:O	63:CB:5:LYS:CB	2.63	0.46
63:CB:84:MET:SD	63:CB:164:ALA:HB1	2.54	0.46
63:CB:349:LYS:HB3	63:CB:349:LYS:HE3	1.36	0.46
65:Cc:74:TYR:CZ	65:Cc:81:LEU:HD23	2.51	0.46
67:Ce:31:ILE:HD11	85:A5:2347:A:C4	2.51	0.46
67:Ce:85:LEU:CD1	67:Ce:111:ILE:HG23	2.46	0.46
71:Cj:3:LYS:O	71:Cj:7:SER:OG	2.32	0.46
74:CC:12:SER:OG	74:CC:16:GLU:HG3	2.15	0.46
74:CC:57:LEU:O	74:CC:58:ALA:CB	2.58	0.46
74:CC:267:TRP:C	74:CC:269:LYS:N	2.74	0.46
74:CC:340:ILE:HD13	74:CC:340:ILE:HA	1.72	0.46
79:CJ:135:GLY:C	79:CJ:139:PHE:HE2	2.22	0.46
81:CE:168:LEU:CD1	81:CE:188:ARG:HH21	2.29	0.46
81:CE:172:LEU:HD21	85:A5:4941:G:N7	2.30	0.46
82:CG:24:ALA:C	82:CG:26:LYS:H	2.23	0.46
82:CG:105:GLU:HB2	82:CG:109:GLU:OE1	2.16	0.46
83:Cs:31:LEU:CD2	84:Cu:30:VAL:N	2.79	0.46
83:Cs:40:GLU:C	83:Cs:44:PRO:HG3	2.40	0.46
85:A5:1437:C:H42	85:A5:1447:C:N4	2.14	0.46
85:A5:4900:C:H4'	85:A5:4901:G:OP2	2.16	0.46
85:A5:5028:G:H2'	85:A5:5029:C:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:60:ARG:H	1:Az:63:GLU:CB	2.28	0.46
1:Az:165:LEU:HD13	1:Az:305:MET:HE2	1.79	0.46
1:Az:585:GLU:OE1	1:Az:737:GLN:NE2	2.49	0.46
1:Az:616:ASP:OD1	1:Az:621:GLU:CG	2.63	0.46
2:Ag:175:LYS:CE	2:Ag:184:LEU:HB2	2.46	0.46
3:AU:104:ILE:C	3:AU:105:SER:OG	2.56	0.46
6:AX:77:ASN:C	6:AX:79:LYS:N	2.73	0.46
7:AM:67:ALA:O	25:Af:114:ILE:HG21	2.16	0.46
7:AM:69:LEU:O	7:AM:74:ILE:HD12	2.16	0.46
8:AS:7:GLU:C	8:AS:8:LYS:CD	2.89	0.46
10:AN:38:TYR:CE1	10:AN:78:LYS:HG3	2.50	0.46
12:AR:5:ARG:C	12:AR:10:LYS:HZ1	2.24	0.46
14:AT:16:ARG:HH11	14:AT:16:ARG:HG3	1.77	0.46
14:AT:21:PHE:HD1	14:AT:22:LEU:N	2.14	0.46
15:AB:23:ASP:HA	15:AB:24:PRO:HD3	1.44	0.46
15:AB:44:ILE:HG23	15:AB:69:VAL:HG21	1.97	0.46
15:AB:103:MET:O	15:AB:214:LYS:HA	2.15	0.46
16:AA:120:ARG:HG2	16:AA:120:ARG:HH11	1.80	0.46
16:AA:149:ASN:CB	16:AA:165:ASN:ND2	2.69	0.46
17:AV:40:ASP:O	17:AV:40:ASP:OD1	2.34	0.46
18:AY:29:HIS:CE1	18:AY:67:GLY:N	2.82	0.46
18:AY:29:HIS:HE1	18:AY:67:GLY:CA	2.06	0.46
27:AE:126:VAL:HG13	27:AE:158:ASP:C	2.29	0.46
28:AC:84:PHE:CE1	28:AC:262:THR:CG2	2.99	0.46
30:AF:42:LYS:C	30:AF:42:LYS:HD3	2.09	0.46
31:AH:103:LYS:CD	36:B2:688:U:H2'	2.46	0.46
31:AH:119:SER:O	31:AH:120:ARG:CZ	2.64	0.46
32:AW:15:ASN:HD21	32:AW:19:LYS:HE3	1.77	0.46
32:AW:30:CYS:SG	32:AW:31:SER:N	2.89	0.46
32:AW:104:LEU:HD13	32:AW:106:THR:CG2	2.42	0.46
33:AI:97:VAL:O	33:AI:100:CYS:HB2	2.15	0.46
33:AI:191:GLU:O	33:AI:195:LEU:N	2.42	0.46
38:Cz:29:LEU:CD2	38:Cz:172:VAL:CG1	2.94	0.46
38:Cz:42:ASP:CB	38:Cz:45:LYS:HD2	2.45	0.46
38:Cz:100:VAL:HG23	38:Cz:102:LYS:HG2	1.97	0.46
39:Cq:17:ILE:O	39:Cq:21:LEU:HG	2.16	0.46
40:CK:131:GLU:CB	40:CK:152:ILE:CG2	2.94	0.46
40:CK:142:ASN:HD21	40:CK:151:ILE:HG21	1.81	0.46
41:CO:54:TYR:CD2	41:CO:145:VAL:CG2	2.85	0.46
41:CO:118:MET:HB3	52:CS:167:PHE:HB3	1.95	0.46
42:CL:37:LYS:N	42:CL:37:LYS:CD	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:135:LYS:HG3	42:CL:136:LYS:N	2.31	0.46
42:CL:207:VAL:HG12	42:CL:211:LYS:HE3	1.96	0.46
45:Ca:55:LYS:HD2	85:A5:92:C:O2	2.16	0.46
45:Ca:62:HIS:HB2	85:A5:315:G:H8	1.80	0.46
46:CN:64:ILE:CD1	46:CN:102:ALA:C	2.89	0.46
47:CI:203:HIS:CE1	86:A7:106:G:OP2	2.68	0.46
48:CD:24:ARG:NH1	86:A7:13:A:O2'	2.48	0.46
48:CD:219:TYR:O	48:CD:221:LYS:N	2.48	0.46
48:CD:232:THR:HB	48:CD:233:PRO:CD	2.42	0.46
49:CQ:92:VAL:O	49:CQ:112:ARG:NH1	2.47	0.46
49:CQ:144:LYS:HE2	49:CQ:144:LYS:HA	1.96	0.46
50:CR:45:ILE:HA	50:CR:50:ILE:HG23	1.94	0.46
50:CR:122:SER:O	50:CR:126:LYS:HG3	2.16	0.46
50:CR:178:GLN:CA	50:CR:181:LYS:HD3	2.40	0.46
51:CA:8:GLN:NE2	51:CA:231:ALA:CB	2.77	0.46
52:CS:21:LYS:HD3	52:CS:21:LYS:HA	1.76	0.46
52:CS:82:LEU:CD1	52:CS:124:ILE:HG21	2.33	0.46
52:CS:153:PRO:HG2	52:CS:155:PRO:HG3	1.98	0.46
52:CS:173:ASN:O	52:CS:174:THR:O	2.34	0.46
53:CT:157:GLU:O	53:CT:158:PHE:HB2	2.14	0.46
55:CU:23:LEU:HD23	55:CU:110:TYR:C	2.37	0.46
55:CU:125:GLU:HG3	55:CU:126:ASP:H	1.75	0.46
63:CB:33:PRO:HG3	63:CB:351:LEU:HA	1.98	0.46
63:CB:285:TYR:CD1	63:CB:363:ILE:HD12	2.49	0.46
63:CB:300:LYS:C	63:CB:301:ASN:CG	2.83	0.46
63:CB:333:LEU:HD23	63:CB:337:VAL:HG11	1.98	0.46
67:Ce:80:HIS:HB3	67:Ce:84:GLU:OE2	2.15	0.46
68:Cf:95:LYS:HB3	68:Cf:95:LYS:HE2	1.29	0.46
69:Cg:107:LEU:HD23	69:Cg:107:LEU:C	2.41	0.46
71:Cj:36:LYS:HB3	71:Cj:36:LYS:HE2	1.62	0.46
72:Ck:33:LYS:NZ	85:A5:2693:G:OP2	2.46	0.46
74:CC:40:VAL:HA	74:CC:115:VAL:HG11	1.97	0.46
74:CC:292:ILE:O	74:CC:295:SER:HB3	2.16	0.46
74:CC:348:LYS:C	74:CC:349:LEU:C	2.80	0.46
81:CE:93:THR:O	81:CE:94:LYS:HG3	2.16	0.46
81:CE:165:LEU:HD13	81:CE:174:LEU:HD21	1.95	0.46
81:CE:237:LYS:O	81:CE:240:TYR:HB3	2.15	0.46
81:CE:253:VAL:HA	81:CE:256:GLN:OE1	2.16	0.46
82:CG:120:LYS:HD3	82:CG:120:LYS:C	2.38	0.46
82:CG:187:LYS:HE3	82:CG:187:LYS:HB2	1.61	0.46
83:Ct:32:ILE:HD12	83:Ct:39:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
84:Cu:42:VAL:O	84:Cu:46:LEU:HG	2.15	0.46
84:Cv:35:ASP:HB2	84:Cv:38:ARG:HD2	1.98	0.46
85:A5:4082:G:H4'	85:A5:4083:U:OP1	2.16	0.46
85:A5:4940:C:OP1	85:A5:4941:G:OP1	2.34	0.46
1:Az:61:LYS:HA	1:Az:61:LYS:HD3	1.76	0.45
1:Az:452:LEU:HD11	1:Az:461:ILE:HD13	1.98	0.45
1:Az:587:SER:HB3	1:Az:735:THR:HG21	1.98	0.45
1:Az:846:GLU:N	1:Az:846:GLU:CD	2.66	0.45
2:Ag:4:GLN:NE2	2:Ag:268:ASP:CG	2.69	0.45
2:Ag:33:SER:O	2:Ag:40:ILE:HG23	2.16	0.45
2:Ag:298:LEU:HD11	2:Ag:310:TRP:CD2	2.44	0.45
3:AU:116:ILE:O	3:AU:117:ALA:HB2	2.16	0.45
5:AO:59:GLY:O	5:AO:60:MET:C	2.58	0.45
6:AX:105:PHE:CD2	6:AX:112:VAL:HG23	2.51	0.45
6:AX:124:LYS:HB3	6:AX:124:LYS:HE2	1.65	0.45
7:AM:51:VAL:CG1	7:AM:109:VAL:CG2	2.94	0.45
10:AN:38:TYR:CZ	10:AN:74:ILE:HG23	2.51	0.45
10:AN:50:ILE:HG23	10:AN:54:LEU:HD11	1.99	0.45
10:AN:56:ASP:OD1	21:Ab:52:THR:OG1	2.32	0.45
10:AN:93:LYS:CG	10:AN:150:VAL:HG11	2.46	0.45
11:AL:147:LYS:NZ	11:AL:156:GLN:HE22	2.14	0.45
12:AR:86:PRO:HB2	12:AR:87:GLU:H	1.63	0.45
13:AP:17:TYR:CD2	13:AP:25:LEU:HD21	2.51	0.45
15:AB:228:LEU:HD22	15:AB:232:HIS:CD2	2.51	0.45
18:AY:13:MET:HE3	18:AY:13:MET:C	2.31	0.45
21:Ab:2:PRO:C	21:Ab:3:LEU:CG	2.89	0.45
21:Ab:62:VAL:O	21:Ab:63:LEU:CB	2.63	0.45
23:AD:138:VAL:O	23:AD:149:SER:HA	2.16	0.45
24:Ae:23:GLU:O	24:Ae:24:LYS:HB2	2.16	0.45
25:Af:117:LEU:O	25:Af:118:ARG:HB2	2.16	0.45
26:AJ:86:VAL:HG11	26:AJ:105:PHE:CE1	2.51	0.45
27:AE:149:TYR:CG	29:AG:205:GLU:HB3	2.46	0.45
29:AG:168:LYS:HD2	36:B2:72:C:C4	2.51	0.45
30:AF:18:LYS:HB3	30:AF:18:LYS:HZ3	1.80	0.45
30:AF:32:ASP:OD2	30:AF:35:LEU:HD12	2.16	0.45
31:AH:168:HIS:CE1	31:AH:169:LYS:HE2	2.52	0.45
34:AQ:8:GLN:HB3	34:AQ:99:TYR:CD1	2.48	0.45
34:AQ:16:LYS:CD	34:AQ:17:LYS:N	2.68	0.45
34:AQ:63:PHE:HD1	34:AQ:68:ILE:CD1	2.27	0.45
36:B2:796:G:C3'	36:B2:797:C:H5'	2.47	0.45
38:Cz:18:LEU:HD13	38:Cz:176:ASP:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:65:VAL:CG1	38:Cz:82:ILE:CD1	2.93	0.45
38:Cz:82:ILE:HG13	38:Cz:83:PRO:CD	2.43	0.45
38:Cz:121:PRO:CG	38:Cz:134:PHE:HE1	2.28	0.45
41:CO:129:LEU:HD12	41:CO:129:LEU:HA	1.81	0.45
42:CL:55:ILE:CD1	42:CL:120:TYR:CE2	2.99	0.45
51:CA:42:LYS:HE3	51:CA:87:PHE:CD1	2.50	0.45
51:CA:51:ASP:CG	51:CA:54:ARG:HD2	2.41	0.45
52:CS:107:THR:O	52:CS:111:ARG:HD3	2.17	0.45
54:CP:147:GLU:O	54:CP:147:GLU:HG3	2.16	0.45
55:CU:37:ALA:HA	55:CU:65:ARG:HH11	1.69	0.45
55:CU:80:LYS:CG	55:CU:110:TYR:HH	1.92	0.45
55:CU:80:LYS:HD2	85:A5:2620:G:OP1	2.16	0.45
57:CY:62:TYR:O	57:CY:63:LYS:C	2.59	0.45
58:CW:90:ILE:CG2	58:CW:94:ARG:CZ	2.94	0.45
59:CZ:40:HIS:C	59:CZ:77:TYR:CE1	2.94	0.45
63:CB:32:PHE:HB2	63:CB:33:PRO:CD	2.46	0.45
63:CB:115:LYS:HD2	63:CB:115:LYS:HA	1.50	0.45
63:CB:365:LEU:H	63:CB:365:LEU:CD2	2.25	0.45
63:CB:381:THR:HG23	63:CB:383:GLU:CG	2.38	0.45
65:Cc:88:TYR:HD2	65:Cc:88:TYR:HA	1.26	0.45
66:Cd:41:ARG:O	66:Cd:43:PRO:HD2	2.16	0.45
66:Cd:112:THR:OG1	66:Cd:113:THR:C	2.58	0.45
67:Ce:7:LEU:CD1	67:Ce:73:GLY:C	2.88	0.45
69:Cg:81:SER:HG	69:Cg:82:MET:HG2	1.81	0.45
70:Ci:58:MET:HG2	70:Ci:90:LEU:HD22	1.98	0.45
72:Ck:64:LEU:HD23	72:Ck:66:VAL:HG23	1.98	0.45
74:CC:11:TYR:OH	74:CC:148:PRO:HB3	2.16	0.45
81:CE:56:ARG:CB	81:CE:65:ARG:HG2	2.41	0.45
81:CE:172:LEU:HD11	85:A5:4940:C:HO2'	1.80	0.45
81:CE:205:ASN:H	81:CE:205:ASN:ND2	2.00	0.45
82:CG:83:PHE:CZ	82:CG:159:HIS:CA	2.80	0.45
83:Cs:11:TYR:CE1	84:Cu:8:LEU:HB3	2.51	0.45
84:Cu:2:ARG:NE	84:Cu:32:ILE:HD13	2.31	0.45
85:A5:119:G:C4	85:A5:119:G:OP2	2.69	0.45
85:A5:980:U:C4	85:A5:981:C:C4	3.04	0.45
85:A5:982:U:C2	85:A5:983:C:C5	3.04	0.45
85:A5:2670:C:H2'	85:A5:2671:C:C6	2.52	0.45
85:A5:4883:C:H3'	85:A5:4884:G:C5'	2.47	0.45
1:Az:301:PHE:O	1:Az:305:MET:HG2	2.16	0.45
1:Az:448:GLN:O	1:Az:448:GLN:CD	2.59	0.45
1:Az:498:LYS:O	1:Az:498:LYS:CG	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:746:LEU:HG	1:Az:785:LYS:HG2	1.97	0.45
1:Az:830:ARG:HB2	1:Az:831:PRO:CD	2.43	0.45
2:Ag:31:ILE:O	2:Ag:31:ILE:HG23	2.15	0.45
2:Ag:54:ILE:CG2	2:Ag:55:PRO:HD2	2.41	0.45
2:Ag:200:VAL:HG12	2:Ag:201:SER:N	2.30	0.45
2:Ag:306:LEU:HD22	2:Ag:308:ARG:CG	2.43	0.45
4:AK:41:PRO:HD2	4:AK:43:LEU:HG	1.97	0.45
6:AX:27:TYR:CZ	6:AX:31:HIS:CE1	2.99	0.45
6:AX:60:LYS:CD	6:AX:116:PRO:HG3	2.44	0.45
6:AX:67:ARG:NH2	6:AX:114:ASP:OD2	2.49	0.45
7:AM:44:LYS:HA	7:AM:45:ARG:HH21	1.80	0.45
8:AS:82:TRP:CD1	36:B2:1567:G:C5	3.04	0.45
10:AN:24:THR:CB	21:Ab:84:HIS:NE2	2.59	0.45
14:AT:141:ALA:O	14:AT:142:ASN:HB3	2.15	0.45
15:AB:36:PRO:CA	15:AB:231:LEU:CD2	2.93	0.45
17:AV:3:ASN:O	17:AV:4:ASP:C	2.58	0.45
19:AZ:77:LEU:O	19:AZ:78:LYS:HD3	2.16	0.45
21:Ab:10:PRO:CD	21:Ab:10:PRO:O	2.64	0.45
21:Ab:25:VAL:HG13	32:AW:55:ASP:HB3	1.97	0.45
21:Ab:56:CYS:SG	21:Ab:57:VAL:N	2.89	0.45
25:Af:147:THR:CG2	25:Af:147:THR:O	2.65	0.45
26:AJ:169:ARG:HB3	26:AJ:170:PRO:HD3	1.85	0.45
27:AE:98:ASN:HD22	27:AE:114:ILE:HG13	1.79	0.45
28:AC:136:HIS:O	28:AC:137:VAL:HG13	2.16	0.45
29:AG:62:PRO:HB2	29:AG:83:CYS:SG	2.56	0.45
32:AW:20:ARG:HH12	36:B2:1139:C:C1'	2.23	0.45
32:AW:25:VAL:O	32:AW:62:VAL:HA	2.17	0.45
33:AI:47:ARG:NH2	33:AI:51:GLY:HA2	2.32	0.45
33:AI:55:TYR:OH	36:B2:305:U:H1'	2.16	0.45
33:AI:141:ARG:O	33:AI:143:LYS:NZ	2.49	0.45
36:B2:375:U:H3	36:B2:389:A:H61	1.64	0.45
36:B2:1363:C:O5'	36:B2:1363:C:H6	1.99	0.45
38:Cz:122:ARG:HB3	38:Cz:123:ILE:HD12	1.99	0.45
38:Cz:143:ASN:H	38:Cz:146:ALA:CB	2.15	0.45
38:Cz:174:MET:HB2	38:Cz:179:LEU:CD2	2.45	0.45
38:Cz:212:LYS:HD3	38:Cz:212:LYS:N	2.09	0.45
39:Cq:72:ASN:HA	39:Cq:73:PRO:HD3	1.63	0.45
39:Cq:259:PHE:C	39:Cq:264:LYS:CG	2.86	0.45
40:CK:8:ASN:O	40:CK:9:GLU:HB3	2.15	0.45
40:CK:56:LEU:C	40:CK:57:ARG:HG3	2.41	0.45
41:CO:22:ILE:HD12	41:CO:120:VAL:CG1	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:20:HIS:HB3	44:CM:45:VAL:CG2	2.46	0.45
45:Ca:51:GLY:CA	49:CQ:180:ARG:HG2	2.46	0.45
46:CN:47:LYS:NZ	46:CN:51:LEU:HD21	2.31	0.45
47:CI:85:PHE:CE1	47:CI:87:MET:HG3	2.51	0.45
49:CQ:93:GLN:H	49:CQ:93:GLN:HG2	1.34	0.45
49:CQ:144:LYS:HE2	49:CQ:149:TYR:CE2	2.51	0.45
50:CR:50:ILE:HG23	50:CR:50:ILE:O	2.15	0.45
51:CA:47:ASP:OD1	51:CA:47:ASP:N	2.48	0.45
52:CS:2:LYS:HD2	52:CS:43:ARG:CG	2.46	0.45
53:CT:23:GLY:O	53:CT:24:VAL:CG2	2.64	0.45
53:CT:34:TYR:HD2	53:CT:34:TYR:N	2.15	0.45
55:CU:120:ASP:C	55:CU:121:GLU:HG3	2.38	0.45
57:CY:74:TYR:HD2	57:CY:77:LYS:H	1.65	0.45
57:CY:83:GLU:C	57:CY:85:VAL:H	2.25	0.45
59:CZ:11:VAL:HA	59:CZ:83:THR:CG2	2.46	0.45
59:CZ:13:VAL:HG22	59:CZ:80:LEU:CD2	2.43	0.45
60:Cr:44:ILE:O	60:Cr:45:HIS:HB3	2.14	0.45
60:Cr:91:SER:OG	81:CE:110:ARG:HG2	2.15	0.45
61:Ch:3:LYS:O	61:Ch:4:ILE:HG12	2.16	0.45
63:CB:80:GLU:HG2	63:CB:171:LEU:CD2	2.47	0.45
63:CB:112:ASP:HA	63:CB:115:LYS:CB	2.42	0.45
66:Cd:86:VAL:HG12	66:Cd:87:ARG:N	2.31	0.45
69:Cg:2:VAL:HG12	69:Cg:3:GLN:N	2.31	0.45
69:Cg:37:LYS:HB3	69:Cg:60:ARG:CZ	2.44	0.45
74:CC:84:THR:O	74:CC:86:ARG:N	2.48	0.45
74:CC:128:LEU:CD1	74:CC:235:LEU:CD1	2.94	0.45
74:CC:144:ILE:CG2	74:CC:144:ILE:O	2.56	0.45
74:CC:147:VAL:CA	74:CC:175:LYS:CB	2.92	0.45
78:Co:40:ARG:O	78:Co:43:ARG:HG2	2.17	0.45
78:Co:43:ARG:HE	78:Co:43:ARG:HB2	1.61	0.45
80:CH:20:LEU:CD2	80:CH:45:LEU:HD13	2.26	0.45
80:CH:40:HIS:CE1	85:A5:4702:G:H4'	2.51	0.45
80:CH:123:ILE:HG21	80:CH:125:ARG:NH2	2.31	0.45
81:CE:44:CYS:CB	81:CE:54:ILE:HD11	2.43	0.45
81:CE:229:GLU:C	81:CE:231:GLU:H	2.22	0.45
82:CG:108:GLN:HA	82:CG:111:LYS:CG	2.46	0.45
83:Cs:19:ASP:O	83:Cs:20:GLU:HB2	2.15	0.45
85:A5:2389:A:H2'	85:A5:2390:G:C8	2.51	0.45
85:A5:4302:U:C5	85:A5:4303:C:C4	3.04	0.45
85:A5:4559:A:O2'	85:A5:4560:C:H2'	2.17	0.45
87:A8:32:C:H2'	87:A8:33:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
87:A8:59:A:C2	87:A8:61:A:C2	3.04	0.45
1:Az:410:PHE:CD1	1:Az:529:LYS:HD3	2.51	0.45
1:Az:517:LEU:HD23	1:Az:517:LEU:O	2.16	0.45
1:Az:819:ILE:HD12	1:Az:819:ILE:C	2.41	0.45
5:AO:83:GLN:NE2	5:AO:87:GLU:OE2	2.50	0.45
5:AO:98:ARG:HG2	5:AO:98:ARG:NH1	2.31	0.45
6:AX:51:VAL:CG2	6:AX:70:VAL:HG11	2.46	0.45
7:AM:31:LEU:HD13	7:AM:31:LEU:C	2.42	0.45
8:AS:81:ASP:HA	8:AS:84:LEU:CD1	2.47	0.45
9:Ad:27:ARG:NH1	9:Ad:27:ARG:HB3	2.26	0.45
10:AN:91:LEU:HD21	36:B2:925:G:H5''	1.97	0.45
12:AR:17:ILE:CG1	12:AR:54:VAL:HG13	2.46	0.45
12:AR:101:ASP:HB3	16:AA:48:ILE:CD1	2.47	0.45
14:AT:38:LYS:HE2	14:AT:45:LEU:HA	1.99	0.45
14:AT:117:GLN:O	14:AT:118:ASP:CB	2.57	0.45
15:AB:151:ARG:HD2	15:AB:154:SER:H	1.82	0.45
16:AA:18:PHE:CZ	16:AA:55:TRP:HZ3	2.34	0.45
18:AY:56:PHE:CE1	18:AY:94:HIS:HE1	2.34	0.45
18:AY:122:LYS:CD	18:AY:123:ALA:N	2.62	0.45
21:Ab:31:TYR:CZ	21:Ab:81:ARG:NH1	2.85	0.45
24:Ae:33:LYS:O	24:Ae:37:GLN:HG3	2.17	0.45
26:AJ:91:LYS:CA	26:AJ:96:TYR:CD2	2.99	0.45
27:AE:255:ARG:HH21	36:B2:844:U:C2'	2.29	0.45
28:AC:88:ILE:HD11	28:AC:93:ILE:CB	2.37	0.45
28:AC:108:LYS:CE	28:AC:233:LEU:HD23	2.44	0.45
28:AC:157:LEU:O	28:AC:160:LEU:HD21	2.11	0.45
31:AH:16:PRO:O	31:AH:20:GLU:OE1	2.34	0.45
31:AH:158:LEU:HD21	31:AH:187:PHE:CD1	2.47	0.45
31:AH:163:GLN:O	31:AH:165:ASN:N	2.49	0.45
39:Cq:69:LEU:O	39:Cq:70:GLU:C	2.60	0.45
39:Cq:253:VAL:CG2	39:Cq:263:GLU:CA	2.93	0.45
42:CL:24:THR:HB	42:CL:26:PHE:CD2	2.51	0.45
42:CL:107:THR:O	42:CL:111:GLN:HG2	2.17	0.45
42:CL:155:MET:HA	42:CL:156:PRO:HD3	1.74	0.45
43:CV:99:GLU:CB	58:CW:24:THR:HG22	2.46	0.45
45:Ca:93:ASN:HD21	45:Ca:94:LYS:HA	1.77	0.45
47:CI:38:ARG:HG3	47:CI:83:ASP:O	2.16	0.45
48:CD:63:GLN:HE22	86:A7:5:A:H1'	1.80	0.45
49:CQ:105:VAL:HG11	49:CQ:110:ARG:N	2.31	0.45
49:CQ:154:LYS:CG	49:CQ:163:THR:CG2	2.94	0.45
51:CA:144:LYS:C	51:CA:145:LYS:CG	2.86	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:80:ILE:HG23	52:CS:95:ARG:HG2	1.96	0.45
52:CS:113:MET:HB3	52:CS:124:ILE:HD11	1.98	0.45
52:CS:160:ARG:HB3	52:CS:163:HIS:CB	2.46	0.45
55:CU:24:ASP:CB	55:CU:111:GLU:OE2	2.64	0.45
57:CY:44:VAL:HG13	57:CY:122:LYS:HB3	1.99	0.45
60:Cr:75:THR:HA	60:Cr:76:SER:HA	1.68	0.45
60:Cr:96:MET:HE3	60:Cr:96:MET:HA	1.98	0.45
61:Ch:15:GLU:CG	61:Ch:16:GLU:N	2.79	0.45
61:Ch:73:TYR:CD1	61:Ch:79:LYS:HG3	2.49	0.45
62:Cb:20:GLY:O	62:Cb:21:ILE:HB	2.16	0.45
63:CB:67:VAL:O	63:CB:67:VAL:HG12	2.15	0.45
63:CB:110:ILE:HG23	63:CB:110:ILE:O	2.16	0.45
63:CB:285:TYR:HB3	63:CB:332:MET:CE	2.46	0.45
63:CB:291:TYR:HD1	63:CB:292:LEU:N	2.15	0.45
63:CB:293:ILE:CG2	63:CB:294:LYS:N	2.80	0.45
63:CB:363:ILE:HG22	63:CB:364:ASP:N	2.30	0.45
67:Ce:74:PHE:CD2	67:Ce:74:PHE:N	2.84	0.45
69:Cg:46:CYS:SG	69:Cg:86:CYS:HB2	2.57	0.45
72:Ck:26:LYS:HA	72:Ck:69:LEU:HD12	1.98	0.45
72:Ck:27:LYS:HD2	72:Ck:27:LYS:C	2.41	0.45
74:CC:22:VAL:HG21	74:CC:258:ARG:HE	1.28	0.45
74:CC:130:ALA:HB3	74:CC:246:VAL:CG1	2.17	0.45
78:Co:55:ILE:HD12	78:Co:56:PHE:H	0.63	0.45
78:Co:83:LEU:C	78:Co:83:LEU:CD1	2.65	0.45
79:CJ:22:LEU:HD23	79:CJ:130:PHE:CG	2.51	0.45
79:CJ:99:PHE:HD1	79:CJ:105:PHE:HB3	1.76	0.45
81:CE:45:SER:CA	81:CE:49:VAL:HB	2.45	0.45
81:CE:155:GLY:C	81:CE:158:ARG:H	2.24	0.45
81:CE:216:TYR:CD1	81:CE:216:TYR:C	2.95	0.45
85:A5:2807:A:H61	85:A5:2819:U:H3	1.64	0.45
1:Az:19:ILE:HG22	1:Az:20:ARG:N	2.31	0.45
1:Az:109:VAL:CG2	1:Az:138:GLN:HE21	2.29	0.45
1:Az:154:VAL:HG11	1:Az:358:LEU:CG	2.47	0.45
1:Az:512:LYS:HD3	1:Az:569:PRO:CB	2.26	0.45
1:Az:587:SER:CB	1:Az:735:THR:CG2	2.95	0.45
1:Az:667:LYS:CB	1:Az:667:LYS:HZ2	2.27	0.45
1:Az:851:LEU:H	1:Az:851:LEU:HD23	1.80	0.45
2:Ag:175:LYS:HE2	2:Ag:184:LEU:HB2	1.98	0.45
2:Ag:270:LEU:HD13	2:Ag:310:TRP:CD2	2.51	0.45
2:Ag:284:PRO:HB2	2:Ag:304:ASP:H	1.80	0.45
3:AU:47:ASN:ND2	3:AU:47:ASN:H	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:40:VAL:HG23	4:AK:41:PRO:HD3	1.94	0.45
4:AK:55:ARG:NH1	36:B2:1277:C:H5"	2.31	0.45
4:AK:60:GLU:CG	4:AK:69:TRP:NE1	2.79	0.45
5:AO:16:SER:O	5:AO:17:LEU:CB	2.61	0.45
6:AX:45:SER:OG	6:AX:46:HIS:HD2	2.00	0.45
7:AM:99:ASN:N	7:AM:100:PRO:HD3	2.29	0.45
7:AM:102:LYS:HG3	7:AM:103:VAL:H	1.81	0.45
8:AS:12:ILE:HD12	8:AS:12:ILE:HA	1.78	0.45
8:AS:24:ARG:C	8:AS:55:ARG:HD2	2.42	0.45
8:AS:141:ARG:HD3	36:B2:1523:C:H5	1.82	0.45
11:AL:55:TYR:CD1	11:AL:55:TYR:C	2.94	0.45
11:AL:125:ILE:C	11:AL:146:THR:HG22	2.40	0.45
11:AL:126:VAL:CG2	11:AL:142:VAL:HG13	2.46	0.45
12:AR:103:LYS:HG3	12:AR:107:LYS:HE3	1.97	0.45
15:AB:36:PRO:CA	15:AB:231:LEU:HD21	2.42	0.45
15:AB:116:LYS:O	15:AB:117:TRP:HB2	2.16	0.45
16:AA:36:GLN:NE2	16:AA:53:ARG:HH12	2.15	0.45
18:AY:78:SER:HB2	18:AY:81:TYR:HE2	1.75	0.45
20:Aa:75:VAL:HG12	20:Aa:79:ILE:HD12	1.99	0.45
23:AD:86:LEU:HD12	23:AD:86:LEU:N	2.32	0.45
23:AD:217:ILE:O	23:AD:218:LEU:HB3	2.15	0.45
26:AJ:84:ILE:O	26:AJ:108:ARG:HD2	2.16	0.45
27:AE:153:LEU:HD23	29:AG:216:ARG:HH22	1.79	0.45
28:AC:66:LEU:HD23	28:AC:75:ILE:CD1	2.46	0.45
29:AG:185:LEU:O	29:AG:189:ARG:HG3	2.16	0.45
32:AW:7:LEU:HD21	32:AW:33:VAL:HG12	1.99	0.45
35:Ah:155:ARG:O	35:Ah:159:ASP:OD1	2.33	0.45
36:B2:752:G:N2	36:B2:753:C:H41	2.14	0.45
38:Cz:24:LYS:CE	38:Cz:172:VAL:HG11	2.45	0.45
38:Cz:53:VAL:HG23	38:Cz:189:PHE:CE1	2.51	0.45
38:Cz:82:ILE:CG2	38:Cz:84:HIS:HB2	2.47	0.45
38:Cz:116:LEU:CA	38:Cz:119:GLN:HE22	2.29	0.45
39:Cq:251:LEU:O	39:Cq:255:THR:OG1	2.35	0.45
39:Cq:253:VAL:N	39:Cq:268:PHE:CZ	2.84	0.45
42:CL:84:ALA:CB	42:CL:117:LEU:HD13	2.46	0.45
45:Ca:65:ARG:NH2	45:Ca:65:ARG:CG	2.74	0.45
45:Ca:89:ASN:OD1	45:Ca:91:ALA:N	2.45	0.45
47:CI:87:MET:HG2	47:CI:138:ILE:CG1	2.44	0.45
49:CQ:33:ARG:NE	49:CQ:52:PHE:CZ	2.79	0.45
51:CA:95:GLN:O	51:CA:102:LEU:HD11	2.17	0.45
52:CS:25:PRO:HA	52:CS:26:PRO:HD3	1.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CS:60:GLU:O	52:CS:61:ILE:C	2.58	0.45
56:CX:87:MET:CE	56:CX:156:ILE:CD1	2.72	0.45
58:CW:61:LYS:HD3	58:CW:61:LYS:N	2.32	0.45
58:CW:99:GLU:CD	58:CW:99:GLU:H	2.23	0.45
60:Cr:126:VAL:C	60:Cr:128:ARG:N	2.74	0.45
63:CB:52:GLY:C	63:CB:78:ILE:CG1	2.73	0.45
63:CB:93:VAL:HG22	63:CB:94:GLU:N	2.31	0.45
63:CB:115:LYS:HE2	63:CB:115:LYS:C	2.31	0.45
63:CB:137:TRP:CE3	63:CB:146:LEU:CD1	3.00	0.45
64:CF:105:VAL:HG22	64:CF:135:ILE:HD12	1.97	0.45
66:Cd:93:ASN:HD21	66:Cd:98:SER:HB2	1.80	0.45
67:Ce:100:ALA:HB1	67:Ce:102:ASN:OD1	2.15	0.45
68:Cf:49:TYR:CE2	68:Cf:51:TYR:CE1	3.04	0.45
69:Cg:20:THR:HG21	69:Cg:32:TYR:CD2	2.48	0.45
70:Ci:102:ALA:C	70:Ci:103:LYS:O	2.56	0.45
71:Cj:68:LYS:HG2	71:Cj:69:ILE:N	2.31	0.45
74:CC:156:ASP:OD2	74:CC:255:SER:HB3	2.16	0.45
80:CH:26:ILE:HG22	80:CH:35:ARG:NE	2.32	0.45
81:CE:44:CYS:O	81:CE:45:SER:OG	2.34	0.45
81:CE:46:ARG:HH21	81:CE:50:LEU:N	2.14	0.45
81:CE:87:LYS:O	81:CE:92:VAL:CG2	2.64	0.45
81:CE:137:VAL:C	81:CE:138:ARG:CG	2.90	0.45
81:CE:149:ILE:N	81:CE:163:VAL:CG1	2.76	0.45
81:CE:154:THR:HG23	81:CE:155:GLY:N	2.31	0.45
81:CE:194:VAL:CG1	81:CE:195:ILE:N	2.80	0.45
82:CG:106:THR:CA	82:CG:107:LYS:HE2	2.46	0.45
85:A5:1380:G:C2	85:A5:1382:G:C4	3.05	0.45
1:Az:106:PRO:HD2	1:Az:115:VAL:CG2	2.13	0.45
1:Az:619:LYS:HD2	1:Az:619:LYS:HA	1.63	0.45
2:Ag:172:LYS:HE2	2:Ag:192:THR:CA	2.45	0.45
3:AU:44:LYS:C	3:AU:47:ASN:HA	2.41	0.45
5:AO:129:ILE:HG21	20:Aa:44:ILE:CG2	2.38	0.45
6:AX:75:ILE:HA	6:AX:75:ILE:HD13	1.73	0.45
6:AX:107:ARG:HB3	6:AX:110:HIS:O	2.17	0.45
7:AM:102:LYS:HG3	7:AM:103:VAL:N	2.32	0.45
8:AS:88:LYS:O	8:AS:89:ASP:O	2.35	0.45
13:AP:17:TYR:CD2	13:AP:25:LEU:CD2	2.99	0.45
13:AP:34:MET:HE2	13:AP:34:MET:HB2	1.75	0.45
15:AB:148:ASN:ND2	15:AB:148:ASN:N	2.61	0.45
16:AA:57:LYS:HZ3	17:AV:70:LEU:CD2	2.29	0.45
16:AA:123:VAL:CG1	16:AA:175:TRP:CH2	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AV:55:ILE:CD1	17:AV:65:SER:O	2.65	0.45
18:AY:101:LYS:HB3	18:AY:102:THR:H	1.66	0.45
19:AZ:62:VAL:HA	19:AZ:65:TYR:CD2	2.52	0.45
23:AD:37:VAL:HG12	23:AD:50:ILE:HD13	1.98	0.45
23:AD:151:LYS:HE2	23:AD:151:LYS:HB2	1.60	0.45
25:Af:103:LEU:CD2	25:Af:106:TYR:CD2	2.95	0.45
27:AE:128:LYS:CD	27:AE:130:PHE:HD1	2.26	0.45
27:AE:128:LYS:CG	27:AE:130:PHE:HD1	2.27	0.45
28:AC:98:LEU:C	28:AC:100:ALA:N	2.74	0.45
28:AC:160:LEU:HG	28:AC:161:SER:N	2.31	0.45
28:AC:257:LYS:HE2	28:AC:257:LYS:HB2	1.72	0.45
29:AG:134:GLY:HA2	58:CW:82:ILE:HG23	1.98	0.45
31:AH:46:THR:CG2	31:AH:63:PHE:CB	2.95	0.45
31:AH:64:VAL:CG2	31:AH:72:PHE:HE2	2.30	0.45
31:AH:154:ILE:HG22	31:AH:185:VAL:HG22	1.98	0.45
32:AW:49:GLU:CD	32:AW:64:ASN:HD22	2.24	0.45
32:AW:49:GLU:OE1	32:AW:64:ASN:ND2	2.50	0.45
33:AI:21:TYR:CZ	33:AI:22:HIS:HD2	2.32	0.45
33:AI:38:ILE:HD11	33:AI:81:VAL:HG23	1.97	0.45
33:AI:67:TRP:CD2	33:AI:70:GLU:HG2	2.52	0.45
34:AQ:138:ARG:O	36:B2:1645:C:H4'	2.16	0.45
36:B2:1415:C:C3'	36:B2:1416:C:H5'	2.46	0.45
38:Cz:41:TYR:CE2	38:Cz:48:ARG:HA	2.52	0.45
38:Cz:67:VAL:CG2	38:Cz:111:LEU:CD1	2.93	0.45
38:Cz:82:ILE:CG1	38:Cz:83:PRO:N	2.79	0.45
39:Cq:133:GLU:C	39:Cq:135:THR:N	2.73	0.45
39:Cq:255:THR:CG2	84:Cv:49:LYS:HG2	2.44	0.45
39:Cq:259:PHE:CD2	39:Cq:264:LYS:HD2	2.51	0.45
40:CK:1:MET:H3	40:CK:2:PRO:CG	2.28	0.45
42:CL:21:ARG:HB2	42:CL:21:ARG:CZ	2.46	0.45
44:CM:7:VAL:HG11	44:CM:57:LEU:HD21	1.99	0.45
44:CM:113:MET:CE	44:CM:117:LYS:HG3	2.46	0.45
46:CN:17:ASP:HB3	82:CG:237:TRP:CH2	2.38	0.45
46:CN:41:ARG:HA	46:CN:61:ILE:CD1	2.46	0.45
46:CN:42:PRO:HD3	46:CN:61:ILE:CD1	2.47	0.45
48:CD:42:ASN:HD21	53:CT:68:THR:HA	1.77	0.45
48:CD:48:LYS:O	48:CD:66:TYR:CB	2.63	0.45
48:CD:104:LEU:CD2	48:CD:247:ILE:CB	2.95	0.45
48:CD:160:PHE:HD2	48:CD:179:ARG:C	2.24	0.45
48:CD:262:LYS:N	48:CD:263:LYS:HB2	2.32	0.45
50:CR:93:VAL:C	50:CR:97:ARG:HD2	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:184:ILE:O	50:CR:188:LEU:CD1	2.62	0.45
51:CA:113:VAL:HG12	51:CA:166:VAL:HA	1.98	0.45
52:CS:17:LEU:CG	52:CS:58:SER:C	2.89	0.45
52:CS:24:THR:HG23	52:CS:25:PRO:CD	2.47	0.45
55:CU:40:GLU:HG3	55:CU:70:ILE:HG12	1.94	0.45
58:CW:47:ARG:HG2	58:CW:54:LEU:CD2	2.46	0.45
58:CW:63:GLN:CD	58:CW:67:ILE:HD11	2.40	0.45
59:CZ:83:THR:OG1	59:CZ:85:TYR:N	2.49	0.45
59:CZ:114:ALA:HA	59:CZ:117:LYS:HD2	1.97	0.45
60:Cr:41:ASN:OD1	60:Cr:41:ASN:C	2.58	0.45
61:Ch:35:LYS:HE2	61:Ch:35:LYS:HB2	1.71	0.45
63:CB:89:ILE:CG2	63:CB:197:ALA:CB	2.93	0.45
64:CF:213:LEU:CD1	64:CF:244:ILE:CD1	2.94	0.45
67:Ce:5:ARG:CG	67:Ce:93:LYS:CG	2.91	0.45
67:Ce:41:ILE:O	67:Ce:41:ILE:CG2	2.62	0.45
70:Ci:4:ARG:HD2	70:Ci:5:TYR:H	1.80	0.45
72:Ck:8:ILE:HG23	72:Ck:9:LYS:N	2.30	0.45
74:CC:40:VAL:CG1	74:CC:44:LEU:CD1	2.79	0.45
74:CC:167:ALA:HA	74:CC:170:LEU:CD2	2.46	0.45
74:CC:174:LEU:C	74:CC:175:LYS:CD	2.90	0.45
74:CC:213:GLU:O	74:CC:213:GLU:OE1	2.34	0.45
74:CC:277:TYR:CD1	74:CC:277:TYR:C	2.95	0.45
79:CJ:164:ARG:HG2	79:CJ:168:GLN:CD	2.41	0.45
80:CH:105:ILE:N	80:CH:105:ILE:CD1	2.65	0.45
81:CE:195:ILE:HG21	81:CE:288:PHE:HZ	1.77	0.45
82:CG:98:LEU:CD1	82:CG:102:TYR:HE2	2.29	0.45
82:CG:99:ALA:CB	82:CG:204:PHE:HZ	2.28	0.45
82:CG:125:LYS:HB3	82:CG:126:GLY:H	1.52	0.45
82:CG:243:GLY:HA3	82:CG:244:PRO:CD	2.46	0.45
82:CG:254:GLU:OE1	82:CG:257:LYS:HD3	2.17	0.45
1:Az:12:ILE:HD12	1:Az:12:ILE:HA	1.66	0.45
1:Az:125:ALA:O	1:Az:154:VAL:HB	2.15	0.45
1:Az:744:ILE:CG2	1:Az:816:HIS:HE2	2.26	0.45
2:Ag:143:GLN:HE21	2:Ag:144:ASP:H	1.60	0.45
6:AX:67:ARG:HA	6:AX:67:ARG:NE	2.30	0.45
8:AS:40:TYR:CD1	8:AS:97:GLN:NE2	2.84	0.45
8:AS:40:TYR:CE1	8:AS:44:VAL:HG21	2.50	0.45
9:Ad:5:GLN:HA	9:Ad:7:TYR:CZ	2.51	0.45
9:Ad:34:TYR:HB2	9:Ad:36:LEU:HD13	1.99	0.45
10:AN:26:LEU:HA	10:AN:27:LYS:HE3	1.99	0.45
10:AN:125:LEU:CD2	10:AN:129:TYR:CE2	3.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AN:137:PRO:O	10:AN:138:ASN:CB	2.65	0.45
14:AT:21:PHE:CD1	14:AT:22:LEU:N	2.85	0.45
15:AB:91:VAL:HG22	15:AB:96:CYS:SG	2.57	0.45
15:AB:136:ARG:HG2	15:AB:138:PHE:CZ	2.48	0.45
16:AA:28:THR:CG2	16:AA:46:ILE:HD13	2.45	0.45
16:AA:81:ASN:HA	16:AA:84:GLN:OE1	2.15	0.45
17:AV:58:ALA:HA	17:AV:61:ARG:CD	2.47	0.45
19:AZ:48:VAL:HG22	19:AZ:80:ARG:HB2	1.99	0.45
23:AD:110:LEU:HD23	23:AD:110:LEU:C	2.41	0.45
25:Af:105:TYR:C	25:Af:106:TYR:CD2	2.87	0.45
26:AJ:18:ARG:HA	26:AJ:19:PRO:HD3	1.48	0.45
26:AJ:67:ASP:O	26:AJ:69:ARG:N	2.50	0.45
26:AJ:148:ILE:O	26:AJ:148:ILE:HG22	2.17	0.45
27:AE:21:ASP:OD2	27:AE:24:THR:HG22	2.01	0.45
28:AC:80:GLU:O	28:AC:84:PHE:HD2	1.99	0.45
28:AC:125:LYS:HA	28:AC:143:CYS:HA	1.98	0.45
31:AH:59:ALA:HB2	31:AH:172:THR:OG1	2.17	0.45
33:AI:123:ARG:O	33:AI:124:LYS:O	2.35	0.45
34:AQ:8:GLN:CA	34:AQ:99:TYR:CZ	2.99	0.45
34:AQ:28:GLY:H	34:AQ:66:VAL:HA	1.82	0.45
36:B2:126:G:N2	36:B2:181:A:OP1	2.48	0.45
36:B2:846:G:C8	36:B2:846:G:O5'	2.70	0.45
38:Cz:65:VAL:HB	38:Cz:82:ILE:CD1	2.47	0.45
39:Cq:26:LYS:CD	39:Cq:98:ILE:HD12	2.47	0.45
39:Cq:105:ASN:O	39:Cq:106:LYS:HB3	2.16	0.45
39:Cq:276:VAL:C	39:Cq:280:PRO:CD	2.74	0.45
40:CK:21:GLU:HG3	40:CK:48:LYS:HE2	1.97	0.45
40:CK:22:VAL:HG11	40:CK:45:ASP:CA	2.46	0.45
40:CK:84:ALA:C	40:CK:86:LYS:H	2.19	0.45
42:CL:129:ARG:CZ	61:Ch:115:PRO:HG3	2.46	0.45
44:CM:77:TRP:NE1	44:CM:82:ILE:CG2	2.67	0.45
46:CN:139:HIS:O	46:CN:140:LYS:C	2.59	0.45
47:CI:85:PHE:HD1	47:CI:87:MET:HG3	1.78	0.45
48:CD:58:ARG:NH1	48:CD:93:THR:HG21	2.32	0.45
48:CD:107:ARG:NH2	48:CD:120:GLU:HA	2.32	0.45
48:CD:269:PRO:O	48:CD:269:PRO:CD	2.64	0.45
51:CA:83:HIS:NE2	51:CA:86:GLN:OE1	2.50	0.45
51:CA:174:ARG:N	77:Cp:69:TRP:CZ3	2.52	0.45
52:CS:95:ARG:HB3	52:CS:95:ARG:CZ	2.45	0.45
53:CT:137:GLU:O	64:CF:85:ALA:HB2	2.16	0.45
54:CP:118:GLN:CD	54:CP:147:GLU:OE2	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:80:LYS:HG3	55:CU:110:TYR:OH	2.01	0.45
56:CX:119:ILE:CD1	56:CX:140:LEU:CD1	2.93	0.45
57:CY:32:SER:HG	57:CY:106:ILE:HG13	1.80	0.45
57:CY:53:ASP:OD1	57:CY:110:LYS:CB	2.64	0.45
59:CZ:30:ASP:O	59:CZ:39:SER:HB2	2.16	0.45
60:Cr:10:VAL:O	60:Cr:11:ARG:C	2.59	0.45
61:Ch:35:LYS:C	61:Ch:38:GLY:HA2	2.36	0.45
64:CF:116:GLN:OE1	64:CF:212:LYS:CE	2.63	0.45
66:Cd:53:ALA:O	66:Cd:56:GLU:O	2.35	0.45
66:Cd:57:MET:CB	66:Cd:90:ARG:NH1	2.57	0.45
68:Cf:69:VAL:HG11	68:Cf:71:TRP:CH2	2.51	0.45
69:Cg:63:VAL:CG1	69:Cg:67:LEU:HD12	2.45	0.45
70:Ci:33:LEU:CD1	70:Ci:33:LEU:N	2.80	0.45
70:Ci:41:ARG:O	70:Ci:44:ILE:HG22	2.15	0.45
74:CC:133:LEU:HD23	74:CC:136:LEU:HD12	0.47	0.45
74:CC:171:LEU:CD2	74:CC:209:ILE:HD11	2.47	0.45
80:CH:63:ASN:HB2	80:CH:66:GLU:CD	2.37	0.45
80:CH:92:MET:CE	80:CH:161:ILE:CG2	2.93	0.45
81:CE:31:ASN:N	81:CE:32:LEU:CD2	2.77	0.45
81:CE:57:TYR:C	81:CE:60:SER:HB3	2.41	0.45
81:CE:137:VAL:HG11	85:A5:711:A:H4'	1.98	0.45
81:CE:149:ILE:CD1	81:CE:271:LEU:HD23	2.46	0.45
81:CE:166:LYS:CG	81:CE:167:GLN:N	2.79	0.45
81:CE:181:LEU:HD11	81:CE:268:GLN:CA	2.46	0.45
81:CE:223:ARG:O	81:CE:224:LYS:CB	2.65	0.45
82:CG:42:GLY:N	82:CG:43:GLN:HG2	2.32	0.45
83:Ct:17:HIS:ND1	83:Ct:56:ILE:HD12	2.31	0.45
85:A5:150:U:O5'	85:A5:150:U:C6	2.69	0.45
1:Az:73:THR:HA	1:Az:104:ASP:HB3	1.96	0.45
1:Az:434:TYR:C	1:Az:434:TYR:CD1	2.95	0.45
2:Ag:71:ILE:HG21	2:Ag:75:GLY:HA2	1.97	0.45
2:Ag:131:LEU:HD23	2:Ag:132:TRP:H	1.81	0.45
2:Ag:236:ILE:HG21	2:Ag:239:LEU:HD21	1.98	0.45
4:AK:1:MET:HE2	4:AK:2:LEU:HB3	1.98	0.45
4:AK:2:LEU:HA	4:AK:2:LEU:HD22	1.20	0.45
5:AO:20:GLN:HE21	5:AO:22:ALA:HB2	1.82	0.45
5:AO:116:LEU:HD23	5:AO:116:LEU:HA	1.77	0.45
8:AS:88:LYS:HD2	13:AP:37:TYR:HA	1.99	0.45
8:AS:91:LYS:HD3	13:AP:15:PHE:CE1	2.49	0.45
8:AS:117:ILE:O	8:AS:117:ILE:HG22	2.15	0.45
10:AN:132:LYS:HB3	10:AN:132:LYS:HE2	1.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:101:ASP:C	16:AA:48:ILE:CD1	2.90	0.45
13:AP:59:ARG:NE	13:AP:76:VAL:HG13	2.29	0.45
14:AT:15:VAL:HG23	14:AT:16:ARG:N	2.32	0.45
14:AT:40:ALA:C	14:AT:43:LYS:HG2	2.41	0.45
17:AV:56:CYS:SG	17:AV:59:ILE:CG1	3.04	0.45
18:AY:43:LYS:O	18:AY:46:LYS:HG3	2.16	0.45
18:AY:120:THR:HB	18:AY:122:LYS:CD	2.42	0.45
19:AZ:74:SER:CA	19:AZ:79:ILE:HG22	2.33	0.45
22:Ac:14:VAL:HG13	22:Ac:30:VAL:HG13	1.98	0.45
23:AD:132:LYS:HD3	23:AD:191:PRO:CG	2.46	0.45
25:Af:82:LYS:NZ	36:B2:1509:U:C6	2.83	0.45
27:AE:188:ASN:HD21	27:AE:218:PHE:HB2	1.82	0.45
28:AC:137:VAL:CG1	28:AC:217:ALA:CA	2.93	0.45
30:AF:38:TYR:N	30:AF:38:TYR:HD2	2.14	0.45
30:AF:69:VAL:O	30:AF:73:THR:HG23	2.16	0.45
31:AH:8:ILE:O	31:AH:11:PRO:HD3	2.16	0.45
31:AH:79:LEU:HD22	31:AH:83:LEU:HD23	1.99	0.45
34:AQ:9:SER:OG	34:AQ:26:LYS:HE3	2.13	0.45
35:Ah:296:ILE:HG22	35:Ah:298:ASN:ND2	2.30	0.45
36:B2:1144:A:C2	36:B2:1199:A:H4'	2.51	0.45
38:Cz:24:LYS:HZ3	38:Cz:29:LEU:HA	1.82	0.45
38:Cz:42:ASP:HB3	38:Cz:45:LYS:HD2	1.99	0.45
38:Cz:134:PHE:HA	38:Cz:135:PRO:HD2	1.83	0.45
39:Cq:47:LEU:HB3	39:Cq:51:ALA:HB3	1.98	0.45
39:Cq:61:MET:CA	39:Cq:82:ILE:HG21	2.47	0.45
40:CK:85:LEU:HB3	40:CK:106:PHE:CD2	2.52	0.45
41:CO:82:ARG:HD3	41:CO:85:ARG:HD3	1.98	0.45
41:CO:177:LEU:CG	44:CM:130:LEU:HD21	2.37	0.45
42:CL:99:ASP:OD1	42:CL:100:PRO:CD	2.65	0.45
42:CL:121:ARG:HH12	42:CL:124:LEU:CD2	2.29	0.45
42:CL:125:ILE:HG23	42:CL:138:ASP:OD2	2.16	0.45
42:CL:164:GLU:O	42:CL:165:LYS:O	2.35	0.45
44:CM:38:VAL:CG2	44:CM:50:MET:HE2	2.46	0.45
45:Ca:77:LYS:HB2	45:Ca:78:LEU:H	1.60	0.45
47:CI:76:MET:HE3	47:CI:151:ALA:HB3	1.97	0.45
47:CI:85:PHE:HA	47:CI:140:THR:HG22	1.98	0.45
47:CI:91:LEU:HD12	47:CI:135:ILE:HA	1.94	0.45
48:CD:48:LYS:CE	48:CD:145:TYR:CD2	3.00	0.45
48:CD:152:ARG:HH11	48:CD:152:ARG:HG2	1.77	0.45
49:CQ:4:ASP:CB	64:CF:98:ILE:HG13	2.46	0.45
49:CQ:59:PRO:CG	49:CQ:141:GLY:O	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:CR:10:LEU:O	50:CR:14:VAL:HG23	2.16	0.45
51:CA:83:HIS:CE1	51:CA:86:GLN:CB	2.95	0.45
51:CA:135:THR:O	51:CA:148:VAL:HG13	2.17	0.45
52:CS:33:PHE:HE1	52:CS:126:ILE:HG21	1.81	0.45
52:CS:74:ARG:C	52:CS:75:VAL:HG12	2.41	0.45
52:CS:83:ARG:HH21	53:CT:156:TYR:CB	2.27	0.45
52:CS:98:ARG:HH12	52:CS:145:PHE:C	2.21	0.45
53:CT:113:ASP:OD1	53:CT:113:ASP:C	2.56	0.45
56:CX:46:PHE:HB2	82:CG:56:LYS:O	2.17	0.45
56:CX:90:ILE:H	56:CX:90:ILE:HG13	1.48	0.45
58:CW:110:ARG:HA	58:CW:113:LYS:HD2	1.97	0.45
59:CZ:73:LYS:CB	59:CZ:75:TYR:CZ	2.92	0.45
60:Cr:44:ILE:O	60:Cr:45:HIS:ND1	2.50	0.45
63:CB:17:LEU:HD21	63:CB:235:TRP:CH2	2.51	0.45
63:CB:33:PRO:HD3	63:CB:351:LEU:CD2	2.47	0.45
64:CF:89:LEU:HD11	64:CF:122:PHE:HD1	1.82	0.45
65:Cc:20:LEU:CD2	65:Cc:101:ASP:HB3	2.40	0.45
66:Cd:81:PRO:CD	66:Cd:81:PRO:O	2.64	0.45
66:Cd:110:PRO:HD2	66:Cd:110:PRO:O	2.16	0.45
67:Ce:128:ARG:O	67:Ce:129:LEU:C	2.49	0.45
70:Ci:71:LYS:HB3	70:Ci:71:LYS:HE2	1.60	0.45
72:Ck:38:CYS:SG	72:Ck:43:TYR:HE2	2.40	0.45
74:CC:14:LYS:HD3	74:CC:173:LYS:CG	2.47	0.45
74:CC:24:LEU:HA	74:CC:25:PRO:HD3	1.28	0.45
74:CC:128:LEU:CD1	74:CC:235:LEU:HD12	2.36	0.45
74:CC:310:HIS:CB	74:CC:311:ARG:HG2	2.33	0.45
75:Cm:128:LYS:HD3	75:Cm:128:LYS:HA	1.62	0.45
82:CG:48:LYS:HD3	82:CG:48:LYS:HA	1.29	0.45
82:CG:117:ARG:CD	82:CG:130:THR:CG2	2.94	0.45
82:CG:124:GLY:O	82:CG:125:LYS:HD2	2.16	0.45
82:CG:154:LEU:HD12	82:CG:204:PHE:HB2	1.98	0.45
85:A5:656:C:H2'	85:A5:657:C:C6	2.51	0.45
85:A5:1240:G:C1'	85:A5:1240:G:O2'	2.53	0.45
85:A5:4730:C:H1'	85:A5:4731:G:H2'	1.98	0.45
1:Az:207:PRO:CB	1:Az:261:TRP:CE2	3.00	0.45
1:Az:239:LYS:CD	1:Az:241:GLU:HG2	2.46	0.45
1:Az:322:LYS:CG	1:Az:323:LEU:N	2.80	0.45
1:Az:330:LYS:HZ3	1:Az:330:LYS:CB	2.28	0.45
1:Az:702:PHE:CE1	1:Az:733:VAL:HG23	2.51	0.45
2:Ag:87:LEU:O	2:Ag:101:PHE:HD1	2.00	0.45
2:Ag:118:ARG:NE	2:Ag:118:ARG:CA	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AX:52:LEU:HD12	6:AX:53:GLU:H	1.70	0.45
6:AX:52:LEU:CD1	6:AX:71:ARG:CB	2.95	0.45
7:AM:13:ASP:CB	7:AM:16:THR:OG1	2.64	0.45
8:AS:92:ASP:C	8:AS:94:LYS:H	2.23	0.45
8:AS:111:LEU:CD2	8:AS:125:HIS:ND1	2.75	0.45
12:AR:112:GLY:O	12:AR:113:SER:OG	2.32	0.45
13:AP:127:LYS:NZ	13:AP:127:LYS:CA	2.63	0.45
15:AB:144:LYS:CG	15:AB:206:PRO:HB3	2.47	0.45
16:AA:89:LYS:HD2	16:AA:89:LYS:HA	1.66	0.45
16:AA:204:TYR:CD2	16:AA:204:TYR:C	2.95	0.45
18:AY:17:LEU:CD1	27:AE:64:ILE:CD1	2.95	0.45
19:AZ:92:LEU:HD21	19:AZ:109:TYR:HE1	1.69	0.45
24:Ae:40:ARG:C	24:Ae:40:ARG:CD	2.90	0.45
28:AC:165:VAL:O	28:AC:165:VAL:HG23	2.16	0.45
29:AG:133:LEU:HD12	29:AG:133:LEU:HA	1.80	0.45
29:AG:145:PHE:O	29:AG:147:LEU:HD12	2.16	0.45
30:AF:32:ASP:CB	30:AF:117:ILE:CG2	2.95	0.45
30:AF:71:ARG:HH21	30:AF:71:ARG:HG3	1.72	0.45
30:AF:110:GLN:HE21	30:AF:110:GLN:CA	2.29	0.45
30:AF:112:LEU:O	30:AF:116:ILE:HG12	2.16	0.45
30:AF:141:VAL:HG22	30:AF:146:ARG:HG2	1.99	0.45
31:AH:36:LEU:HD23	31:AH:78:ARG:HH11	1.82	0.45
31:AH:75:ILE:CG2	31:AH:76:GLN:H	2.25	0.45
31:AH:106:ARG:NE	36:B2:861:A:N3	2.65	0.45
33:AI:37:LYS:NZ	33:AI:93:THR:HB	2.31	0.45
33:AI:191:GLU:HG2	33:AI:192:GLY:H	1.82	0.45
36:B2:1240:A:C2	36:B2:1268:C:C5'	3.00	0.45
36:B2:1408:U:H2'	36:B2:1409:A:C8	2.52	0.45
38:Cz:29:LEU:HD11	38:Cz:172:VAL:HG12	1.95	0.45
39:Cq:157:ASP:C	39:Cq:158:VAL:HG23	2.42	0.45
39:Cq:251:LEU:CD1	84:Cv:51:ILE:HG23	2.47	0.45
39:Cq:259:PHE:C	39:Cq:264:LYS:HG3	2.38	0.45
40:CK:28:LEU:HD13	40:CK:29:ALA:N	2.32	0.45
40:CK:58:ILE:C	40:CK:59:THR:CG2	2.90	0.45
40:CK:108:GLU:O	40:CK:111:ASN:CB	2.65	0.45
40:CK:131:GLU:CD	40:CK:152:ILE:CG2	2.90	0.45
41:CO:41:ILE:O	41:CO:138:LEU:N	2.46	0.45
42:CL:34:ARG:HB3	42:CL:34:ARG:HH11	1.80	0.45
42:CL:48:PRO:CA	42:CL:49:ARG:O	2.65	0.45
42:CL:176:PHE:CD1	42:CL:177:LYS:N	2.85	0.45
45:Ca:47:LYS:HG2	49:CQ:156:PRO:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:32:ARG:O	47:CI:34:PHE:CE2	2.70	0.45
48:CD:41:LYS:HA	48:CD:41:LYS:HD3	1.30	0.45
49:CQ:61:LEU:CD2	49:CQ:141:GLY:CA	2.95	0.45
49:CQ:91:ARG:NH1	85:A5:1502:G:C4	2.85	0.45
50:CR:142:ILE:CA	50:CR:145:LEU:HG	2.47	0.45
51:CA:48:ILE:C	51:CA:49:ILE:HG13	2.42	0.45
52:CS:84:TYR:OH	52:CS:86:SER:HA	2.17	0.45
53:CT:146:LYS:C	53:CT:147:GLU:CG	2.89	0.45
54:CP:29:THR:C	54:CP:32:THR:CG2	2.87	0.45
55:CU:27:HIS:HD2	55:CU:114:TYR:N	2.13	0.45
56:CX:89:LYS:HE3	56:CX:97:VAL:CG2	2.40	0.45
57:CY:47:MET:CE	57:CY:48:PRO:HD3	2.40	0.45
60:Cr:11:ARG:CG	60:Cr:12:ASN:N	2.80	0.45
60:Cr:54:ALA:O	60:Cr:60:VAL:CG1	2.64	0.45
63:CB:51:ALA:CA	63:CB:78:ILE:CD1	2.94	0.45
63:CB:239:LYS:HE2	85:A5:3845:A:OP2	2.17	0.45
66:Cd:24:GLU:OE2	66:Cd:122:VAL:CG2	2.64	0.45
67:Ce:15:LYS:O	67:Ce:16:ARG:CD	2.65	0.45
67:Ce:91:CYS:O	67:Ce:92:ASN:C	2.59	0.45
69:Cg:107:LEU:HD22	69:Cg:108:LYS:CE	2.45	0.45
74:CC:122:TYR:HE1	74:CC:280:PRO:HB2	1.71	0.45
74:CC:209:ILE:CD1	74:CC:221:PHE:CE1	2.99	0.45
77:Cp:28:LYS:HD2	77:Cp:28:LYS:O	2.17	0.45
78:Co:33:LEU:CD1	78:Co:38:LYS:HE2	2.47	0.45
80:CH:36:ARG:NH2	80:CH:76:HIS:CE1	2.85	0.45
81:CE:31:ASN:HB2	81:CE:32:LEU:HD22	1.99	0.45
82:CG:143:VAL:HG13	82:CG:146:LEU:HD21	1.98	0.45
83:Ct:32:ILE:CD1	83:Ct:39:VAL:HG11	2.46	0.45
85:A5:2017:A:C4	85:A5:2018:C:C6	3.04	0.45
85:A5:3910:C:H2'	85:A5:3911:C:C6	2.52	0.45
1:Az:194:GLU:CD	1:Az:195:GLY:N	2.74	0.45
1:Az:813:VAL:HG22	1:Az:814:PHE:N	2.31	0.45
2:Ag:176:VAL:CG2	2:Ag:186:THR:CG2	2.95	0.45
5:AO:147:ARG:HH22	36:B2:1854:U:P	2.40	0.45
6:AX:41:PHE:CE1	6:AX:47:ALA:HB3	2.51	0.45
6:AX:95:GLU:N	6:AX:98:ASP:OD1	2.39	0.45
7:AM:31:LEU:CD1	7:AM:33:ARG:HB3	2.42	0.45
8:AS:15:VAL:HG11	8:AS:68:ILE:HG12	1.99	0.45
8:AS:88:LYS:CD	13:AP:37:TYR:CA	2.95	0.45
14:AT:12:GLN:O	14:AT:16:ARG:HB2	2.16	0.45
15:AB:144:LYS:HG2	15:AB:206:PRO:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:151:ARG:HG3	15:AB:153:THR:H	1.82	0.45
16:AA:158:ASP:O	16:AA:159:ILE:CB	2.65	0.45
18:AY:29:HIS:O	18:AY:31:GLY:N	2.50	0.45
20:Aa:41:ILE:HG21	20:Aa:68:TYR:CE1	2.52	0.45
20:Aa:45:VAL:O	20:Aa:46:GLU:HB2	2.17	0.45
22:Ac:15:THR:HG23	22:Ac:33:GLU:H	1.82	0.45
23:AD:51:LEU:HD12	23:AD:51:LEU:HA	1.78	0.45
23:AD:153:VAL:CG1	23:AD:154:ASP:N	2.80	0.45
27:AE:146:THR:O	27:AE:146:THR:HG23	2.17	0.45
28:AC:104:ASP:HB3	28:AC:130:ILE:HG12	1.99	0.45
28:AC:165:VAL:C	28:AC:248:TYR:CE2	2.94	0.45
29:AG:2:LYS:HG3	29:AG:17:GLU:HG2	1.99	0.45
31:AH:46:THR:CG2	31:AH:63:PHE:HB3	2.47	0.45
32:AW:111:MET:HE1	32:AW:121:THR:OG1	2.16	0.45
36:B2:125:C:H5'	36:B2:125:C:C6	2.47	0.45
36:B2:1145:A:C5	36:B2:1146:C:H1'	2.51	0.45
36:B2:1624:U:H3'	36:B2:1625:U:H6	1.82	0.45
38:Cz:87:ILE:HG22	38:Cz:88:GLU:OE2	2.17	0.45
38:Cz:104:ALA:O	38:Cz:105:LYS:HG3	2.16	0.45
38:Cz:117:ILE:HG23	38:Cz:118:LYS:N	2.31	0.45
38:Cz:215:ARG:HG2	38:Cz:216:LEU:N	2.31	0.45
40:CK:14:TYR:CD1	40:CK:15:LEU:N	2.85	0.45
41:CO:16:LEU:CG	41:CO:43:ILE:HG13	2.47	0.45
42:CL:61:CYS:HB3	42:CL:66:TYR:HB3	1.89	0.45
42:CL:129:ARG:HH22	61:Ch:115:PRO:HG2	0.64	0.45
42:CL:210:LYS:C	42:CL:211:LYS:O	2.57	0.45
43:CV:48:ARG:HG3	43:CV:49:LEU:N	2.32	0.45
43:CV:61:VAL:HG12	43:CV:62:MET:C	2.42	0.45
46:CN:72:LYS:HA	46:CN:72:LYS:HD3	1.41	0.45
46:CN:180:PHE:O	46:CN:184:ILE:CD1	2.65	0.45
47:CI:109:ASP:HB3	47:CI:110:ARG:H	1.57	0.45
48:CD:197:LYS:HD3	48:CD:197:LYS:HA	1.78	0.45
48:CD:255:LYS:HB3	48:CD:255:LYS:HE2	1.57	0.45
49:CQ:151:HIS:CE1	49:CQ:164:LYS:HE3	2.52	0.45
50:CR:1:MET:HB3	50:CR:2:SER:H	1.61	0.45
50:CR:105:LEU:CD2	50:CR:109:TYR:CE1	2.96	0.45
50:CR:188:LEU:O	50:CR:189:SER:O	2.35	0.45
51:CA:253:GLN:HB3	51:CA:254:GLU:HG2	1.98	0.45
52:CS:43:ARG:HD2	52:CS:43:ARG:HA	1.52	0.45
54:CP:57:CYS:SG	54:CP:72:GLN:HB2	2.57	0.45
55:CU:107:LYS:H	55:CU:107:LYS:CD	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:50:ARG:CD	57:CY:115:ARG:HH21	2.25	0.45
58:CW:14:TYR:H	58:CW:17:HIS:CD2	2.35	0.45
63:CB:108:GLU:CD	63:CB:137:TRP:CB	2.89	0.45
63:CB:167:GLN:HB2	63:CB:170:LEU:CD1	2.47	0.45
64:CF:55:LYS:O	64:CF:58:HIS:HB3	2.17	0.45
66:Cd:77:ILE:CD1	85:A5:2370:A:C5	3.00	0.45
72:Ck:7:GLU:HB3	72:Ck:10:ASP:CG	2.42	0.45
72:Ck:14:THR:HA	72:Ck:17:ARG:CG	2.47	0.45
74:CC:7:LEU:CG	74:CC:8:ILE:H	1.95	0.45
74:CC:57:LEU:HA	74:CC:57:LEU:HD22	1.86	0.45
74:CC:146:GLU:CD	74:CC:175:LYS:CE	2.87	0.45
76:Cn:22:GLN:C	76:Cn:24:SER:N	2.75	0.45
77:Cp:12:GLY:O	77:Cp:13:LYS:C	2.59	0.45
78:Co:43:ARG:NH2	85:A5:294:G:C5'	2.71	0.45
79:CJ:146:ARG:HH22	79:CJ:147:ARG:NH2	2.15	0.45
81:CE:208:ILE:O	81:CE:211:HIS:N	2.49	0.45
81:CE:256:GLN:HG2	81:CE:257:ILE:N	2.31	0.45
84:Cv:51:ILE:HG22	84:Cv:55:ILE:CD1	2.47	0.45
85:A5:917:A:C2	85:A5:919:C:C6	3.05	0.45
85:A5:1437:C:H2'	85:A5:1438:U:H5'	1.99	0.45
85:A5:1755:C:OP1	85:A5:1756:U:H5	2.00	0.45
85:A5:4748:U:H2'	85:A5:4749:C:H5'	1.99	0.45
1:Az:113:SER:CB	1:Az:499:PHE:HD2	2.23	0.45
1:Az:662:LEU:HD11	1:Az:683:PHE:CG	2.51	0.45
1:Az:776:VAL:CG2	1:Az:777:ALA:N	2.56	0.45
2:Ag:98:THR:C	2:Ag:99:ARG:HD2	2.38	0.45
2:Ag:238:ALA:CB	2:Ag:289:LEU:CD2	2.95	0.45
4:AK:62:PHE:CZ	4:AK:65:ARG:HA	2.51	0.45
5:AO:125:LYS:HE3	5:AO:125:LYS:HB3	1.37	0.45
5:AO:139:SER:OG	5:AO:140:THR:N	2.50	0.45
5:AO:147:ARG:HH21	5:AO:150:ARG:NH2	2.15	0.45
6:AX:52:LEU:O	6:AX:96:GLU:CD	2.60	0.45
9:Ad:44:ARG:HG2	9:Ad:44:ARG:NH1	2.31	0.45
10:AN:36:GLN:HG3	10:AN:54:LEU:HD21	1.99	0.45
10:AN:55:ARG:HH21	21:Ab:51:GLN:HE22	1.54	0.45
11:AL:60:CYS:HB3	11:AL:63:THR:OG1	2.17	0.45
13:AP:44:ARG:HH21	13:AP:84:ILE:CA	2.28	0.45
13:AP:100:LYS:CD	13:AP:101:THR:HG23	2.46	0.45
13:AP:127:LYS:CE	13:AP:128:HIS:CA	2.95	0.45
15:AB:29:ASP:OD1	15:AB:29:ASP:O	2.34	0.45
15:AB:189:ILE:HB	15:AB:190:PRO:CD	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:158:ASP:CB	17:AV:65:SER:CB	2.92	0.45
16:AA:205:ARG:O	16:AA:206:ASP:CB	2.61	0.45
17:AV:55:ILE:HD11	17:AV:68:SER:HG	1.66	0.45
18:AY:44:LEU:O	18:AY:45:ALA:C	2.60	0.45
18:AY:50:THR:O	18:AY:51:THR:CB	2.63	0.45
19:AZ:99:LEU:HD21	19:AZ:109:TYR:CZ	2.49	0.45
21:Ab:7:LEU:HG	32:AW:24:GLN:HG3	1.98	0.45
23:AD:34:TYR:O	23:AD:99:ILE:HD12	2.17	0.45
23:AD:222:PRO:O	23:AD:223:ILE:CB	2.65	0.45
26:AJ:80:ARG:HH21	36:B2:818:A:H3'	1.82	0.45
26:AJ:160:SER:O	26:AJ:162:ARG:N	2.50	0.45
26:AJ:171:GLY:O	26:AJ:172:ARG:C	2.55	0.45
26:AJ:179:LYS:HA	26:AJ:182:GLN:HB2	1.98	0.45
27:AE:67:GLN:C	27:AE:68:ARG:CG	2.88	0.45
27:AE:151:ASP:O	27:AE:153:LEU:N	2.50	0.45
29:AG:67:VAL:HG22	29:AG:100:CYS:SG	2.57	0.45
31:AH:117:PRO:O	31:AH:119:SER:N	2.50	0.45
31:AH:154:ILE:CG2	31:AH:185:VAL:HG22	2.48	0.45
31:AH:158:LEU:CG	31:AH:187:PHE:CD1	3.00	0.45
31:AH:172:THR:HG23	31:AH:173:PHE:N	2.32	0.45
34:AQ:47:LEU:HD23	34:AQ:81:ILE:HD12	1.62	0.45
39:Cq:110:ALA:HB2	39:Cq:181:SER:HB2	1.93	0.45
39:Cq:249:LEU:HD12	39:Cq:250:ALA:CA	2.46	0.45
39:Cq:253:VAL:N	39:Cq:268:PHE:HZ	2.15	0.45
40:CK:38:SER:OG	40:CK:39:PRO:N	2.50	0.45
41:CO:47:PHE:HE1	41:CO:141:LEU:N	2.15	0.45
41:CO:149:TYR:CD1	63:CB:96:PRO:O	2.70	0.45
43:CV:9:SER:CB	43:CV:128:LEU:HG	2.40	0.45
44:CM:90:ARG:O	44:CM:94:LYS:CG	2.64	0.45
45:Ca:26:ARG:HB2	45:Ca:29:PRO:HG3	1.99	0.45
47:CI:54:SER:HB3	47:CI:135:ILE:HD11	1.99	0.45
48:CD:57:ASN:CA	48:CD:58:ARG:CG	2.87	0.45
48:CD:107:ARG:HG3	48:CD:248:ARG:HA	1.99	0.45
49:CQ:19:LYS:HE3	49:CQ:20:SER:CB	2.46	0.45
51:CA:232:GLY:O	51:CA:234:LYS:CB	2.64	0.45
52:CS:98:ARG:HD3	52:CS:145:PHE:CD1	2.52	0.45
57:CY:117:LYS:HE3	57:CY:121:ARG:NH2	1.89	0.45
59:CZ:29:ILE:HD12	59:CZ:40:HIS:O	2.16	0.45
60:Cr:89:THR:CB	81:CE:110:ARG:HB3	2.46	0.45
60:Cr:90:LEU:HD22	60:Cr:118:LEU:HG	1.97	0.45
60:Cr:91:SER:HB3	81:CE:109:LEU:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:89:ILE:HG21	63:CB:197:ALA:HB1	1.99	0.45
63:CB:213:GLN:O	63:CB:214:ASP:HB2	2.17	0.45
63:CB:245:HIS:CG	63:CB:246:ARG:H	2.34	0.45
63:CB:254:ILE:CG2	63:CB:262:VAL:HG23	2.47	0.45
64:CF:244:ILE:CG2	64:CF:245:ARG:N	2.80	0.45
67:Ce:38:PRO:O	67:Ce:38:PRO:CD	2.63	0.45
67:Ce:92:ASN:CG	67:Ce:119:ALA:O	2.60	0.45
68:Cf:22:ARG:N	68:Cf:22:ARG:CD	2.70	0.45
70:Ci:62:LYS:O	70:Ci:63:VAL:CB	2.59	0.45
74:CC:46:LYS:HZ2	74:CC:113:ARG:NH1	2.14	0.45
74:CC:335:MET:O	74:CC:339:THR:HG23	2.17	0.45
81:CE:212:LEU:CD2	81:CE:216:TYR:CG	2.99	0.45
81:CE:239:LYS:CD	85:A5:4939:C:C6	3.00	0.45
82:CG:51:LEU:C	82:CG:53:ARG:N	2.74	0.45
82:CG:95:LEU:HD23	82:CG:218:LEU:HD22	0.56	0.45
82:CG:106:THR:C	82:CG:108:GLN:N	2.75	0.45
83:Ct:19:ASP:OD1	84:Cv:2:ARG:CD	2.61	0.45
85:A5:239:C:H2'	85:A5:240:G:C8	2.52	0.45
85:A5:1624:G:C2	85:A5:1643:A:C8	3.05	0.45
85:A5:1699:A:N7	85:A5:2096:G:OP2	2.49	0.45
85:A5:3880:G:C6	85:A5:3881:G:C6	3.04	0.45
86:A7:27:G:H21	86:A7:55:A:N6	2.15	0.45
1:Az:9:ILE:HG21	1:Az:452:LEU:HD13	1.99	0.44
1:Az:64:GLN:NE2	1:Az:64:GLN:CA	2.78	0.44
1:Az:198:GLY:HA3	1:Az:199:PRO:HD3	1.79	0.44
1:Az:323:LEU:CD1	1:Az:335:LEU:HD11	2.47	0.44
1:Az:693:CYS:HB3	1:Az:835:VAL:CB	2.47	0.44
1:Az:766:LYS:HB3	1:Az:788:LEU:HD12	1.99	0.44
1:Az:834:VAL:O	1:Az:838:THR:HG23	2.18	0.44
2:Ag:34:ALA:HB1	2:Ag:66:VAL:CG1	2.47	0.44
2:Ag:45:LEU:HD13	2:Ag:52:TYR:HE2	1.83	0.44
2:Ag:175:LYS:HE2	2:Ag:184:LEU:CB	2.46	0.44
2:Ag:273:GLU:C	2:Ag:274:VAL:HG13	2.41	0.44
6:AX:3:LYS:HB3	6:AX:3:LYS:HE2	1.59	0.44
6:AX:41:PHE:CZ	6:AX:102:VAL:HG12	2.48	0.44
7:AM:127:TYR:CD1	7:AM:127:TYR:C	2.93	0.44
8:AS:33:ILE:HB	8:AS:36:VAL:HG13	1.90	0.44
8:AS:72:GLN:O	8:AS:73:ASN:OD1	2.35	0.44
11:AL:18:GLN:NE2	11:AL:20:LYS:HD2	2.27	0.44
11:AL:59:LYS:CD	11:AL:134:LEU:HD21	2.47	0.44
15:AB:90:ASP:OD2	15:AB:91:VAL:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:146:ARG:HH11	15:AB:146:ARG:HB3	1.83	0.44
15:AB:181:LEU:HD23	15:AB:181:LEU:HA	1.83	0.44
16:AA:130:ASP:HB3	16:AA:133:PRO:HG2	1.98	0.44
16:AA:207:PRO:HB2	16:AA:208:GLU:H	1.33	0.44
18:AY:56:PHE:C	18:AY:58:PHE:CE2	2.95	0.44
20:Aa:85:ARG:O	20:Aa:85:ARG:CG	2.64	0.44
21:Ab:6:ASP:OD1	21:Ab:6:ASP:N	2.50	0.44
23:AD:166:TYR:CE1	23:AD:200:PRO:HB2	2.41	0.44
23:AD:225:GLU:HG3	23:AD:227:LYS:HE2	1.98	0.44
24:Ae:33:LYS:HG3	24:Ae:36:MET:HE2	2.00	0.44
26:AJ:91:LYS:CA	26:AJ:96:TYR:CB	2.71	0.44
27:AE:90:ILE:HD11	27:AE:101:LEU:HD11	2.00	0.44
28:AC:195:LEU:O	28:AC:196:ILE:HD13	2.18	0.44
29:AG:13:GLN:HA	29:AG:124:LEU:HD11	1.98	0.44
29:AG:27:PHE:HE2	29:AG:41:LEU:CD1	2.12	0.44
31:AH:109:ARG:HB3	31:AH:110:THR:H	1.14	0.44
33:AI:81:VAL:HG11	33:AI:91:VAL:HA	1.99	0.44
33:AI:97:VAL:HG22	33:AI:100:CYS:HG	1.82	0.44
33:AI:191:GLU:O	33:AI:195:LEU:HB3	2.16	0.44
34:AQ:9:SER:HB2	34:AQ:26:LYS:CD	2.37	0.44
36:B2:530:U:C5	36:B2:531:A:C5	3.05	0.44
36:B2:833:C:H2'	36:B2:834:C:H6	1.82	0.44
36:B2:1417:C:C6	36:B2:1417:C:C3'	2.99	0.44
38:Cz:23:ARG:CZ	38:Cz:206:ILE:HG23	2.46	0.44
38:Cz:150:GLU:HG2	38:Cz:154:THR:CG2	2.47	0.44
39:Cq:143:ILE:CG1	39:Cq:160:LEU:HD22	2.39	0.44
39:Cq:245:TYR:OH	83:Ct:14:LEU:HD21	2.07	0.44
40:CK:61:LYS:HG2	40:CK:73:VAL:O	2.16	0.44
40:CK:146:ARG:HB3	40:CK:151:ILE:HD13	1.99	0.44
41:CO:189:ILE:O	41:CO:191:LYS:HB3	2.18	0.44
42:CL:80:GLU:CD	42:CL:113:ASN:CB	2.90	0.44
43:CV:109:LYS:H	43:CV:109:LYS:HG3	1.62	0.44
46:CN:202:ARG:O	74:CC:112:HIS:CB	2.61	0.44
47:CI:2:GLY:O	47:CI:3:ARG:O	2.35	0.44
47:CI:21:ARG:NH1	47:CI:22:PHE:CZ	2.84	0.44
48:CD:22:ARG:NH2	86:A7:6:C:H3'	2.29	0.44
48:CD:265:ARG:HG3	48:CD:266:TRP:N	2.31	0.44
48:CD:265:ARG:HD2	48:CD:266:TRP:CE2	2.52	0.44
49:CQ:93:GLN:C	49:CQ:94:GLU:CD	2.85	0.44
50:CR:105:LEU:HD12	50:CR:135:LYS:HD2	1.98	0.44
50:CR:121:HIS:CD2	85:A5:2663:G:H3'	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:159:SER:OG	51:CA:162:ASN:OD1	2.35	0.44
52:CS:147:ASP:HB3	52:CS:148:SER:C	2.43	0.44
53:CT:40:VAL:HG13	53:CT:97:LYS:O	2.18	0.44
53:CT:126:VAL:CG1	53:CT:128:LEU:HD21	2.46	0.44
53:CT:139:HIS:C	64:CF:83:VAL:HG22	2.42	0.44
54:CP:66:GLY:HA2	85:A5:3893:C:H5''	1.99	0.44
55:CU:80:LYS:HD2	55:CU:80:LYS:N	2.20	0.44
56:CX:60:TYR:O	56:CX:60:TYR:HD1	2.00	0.44
56:CX:82:THR:CG2	56:CX:155:ILE:HD13	2.47	0.44
58:CW:74:ARG:CD	58:CW:75:ALA:H	2.30	0.44
60:Cr:72:LYS:C	60:Cr:74:ALA:N	2.66	0.44
60:Cr:119:ARG:O	60:Cr:123:PRO:HG3	2.16	0.44
60:Cr:126:VAL:O	60:Cr:128:ARG:HD3	2.17	0.44
61:Ch:4:ILE:O	61:Ch:5:LYS:CB	2.61	0.44
62:Cb:24:PRO:C	62:Cb:25:ARG:HD2	2.41	0.44
62:Cb:75:LEU:CA	62:Cb:78:PRO:HD2	2.47	0.44
63:CB:43:LEU:HD12	63:CB:43:LEU:H	1.80	0.44
63:CB:81:THR:CB	63:CB:329:ASP:O	2.58	0.44
63:CB:112:ASP:H	63:CB:115:LYS:HB2	1.81	0.44
63:CB:293:ILE:HG12	63:CB:297:LYS:CA	2.46	0.44
63:CB:293:ILE:C	63:CB:294:LYS:HG3	2.42	0.44
64:CF:20:LYS:HE2	64:CF:21:LYS:CE	2.48	0.44
66:Cd:65:ASP:O	66:Cd:66:THR:C	2.60	0.44
67:Ce:44:ARG:NH2	85:A5:1313:C:C6	2.85	0.44
68:Cf:64:PRO:HB3	85:A5:4945:G:C6	2.52	0.44
70:Ci:77:VAL:O	70:Ci:77:VAL:HG12	2.17	0.44
71:Cj:47:TYR:CB	71:Cj:49:TRP:NE1	2.80	0.44
72:Ck:36:VAL:HG23	72:Ck:43:TYR:HB2	1.99	0.44
74:CC:338:ASN:HA	74:CC:341:LEU:HB2	1.99	0.44
77:Cp:85:ARG:CZ	77:Cp:85:ARG:HB3	2.41	0.44
80:CH:51:LYS:O	80:CH:52:LYS:CD	2.65	0.44
81:CE:57:TYR:CA	81:CE:60:SER:HB3	2.46	0.44
85:A5:1723:A:N6	85:A5:1838:A:H61	2.16	0.44
85:A5:1890:G:H22	85:A5:1939:A:H61	1.64	0.44
85:A5:2101:C:O4'	85:A5:2101:C:C6	2.70	0.44
85:A5:2110:C:OP1	85:A5:2110:C:C6	2.70	0.44
85:A5:4881:U:H3'	85:A5:4882:U:C5'	2.46	0.44
85:A5:4885:U:O2	85:A5:4934:A:C2	2.70	0.44
1:Az:228:PHE:CD1	1:Az:232:TYR:HE2	2.28	0.44
1:Az:579:TYR:O	1:Az:695:GLU:HB3	2.17	0.44
1:Az:683:PHE:CE1	1:Az:702:PHE:CD2	3.04	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:713:ALA:HB2	1:Az:716:ARG:HH21	1.81	0.44
1:Az:744:ILE:HG13	1:Az:788:LEU:C	2.41	0.44
1:Az:847:GLY:HA3	1:Az:848:ILE:CB	2.48	0.44
2:Ag:32:LEU:CD1	2:Ag:40:ILE:CG2	2.95	0.44
3:AU:46:LYS:HG2	3:AU:46:LYS:O	2.18	0.44
5:AO:92:ALA:CB	5:AO:125:LYS:HB2	2.47	0.44
5:AO:147:ARG:O	5:AO:147:ARG:HG2	2.17	0.44
7:AM:58:GLU:C	7:AM:60:MET:H	2.26	0.44
10:AN:17:PRO:HG3	21:Ab:28:PRO:HG3	1.99	0.44
10:AN:19:ARG:HH11	21:Ab:84:HIS:HB2	1.75	0.44
11:AL:10:TYR:HD2	11:AL:12:LYS:CE	2.14	0.44
11:AL:94:HIS:CB	11:AL:105:ARG:CD	2.75	0.44
11:AL:113:LEU:HD23	11:AL:113:LEU:C	2.42	0.44
13:AP:111:MET:O	13:AP:112:ILE:C	2.61	0.44
14:AT:4:VAL:CG1	14:AT:139:ALA:HB2	2.46	0.44
15:AB:71:LEU:HA	15:AB:74:LEU:HB2	1.97	0.44
15:AB:123:ALA:HB3	15:AB:168:MET:SD	2.57	0.44
16:AA:88:LEU:HD13	16:AA:88:LEU:HA	1.79	0.44
16:AA:145:ILE:HD12	16:AA:159:ILE:CG2	2.27	0.44
18:AY:18:LEU:HD11	27:AE:64:ILE:HD11	1.99	0.44
18:AY:55:ILE:CG1	18:AY:75:ILE:HD11	2.43	0.44
18:AY:84:LYS:CD	18:AY:84:LYS:C	2.89	0.44
20:Aa:44:ILE:HD13	20:Aa:65:PRO:HG2	2.00	0.44
20:Aa:49:ALA:CB	20:Aa:53:ILE:HD12	2.48	0.44
21:Ab:19:HIS:CE1	21:Ab:20:LYS:HG2	2.53	0.44
21:Ab:54:VAL:HB	21:Ab:63:LEU:HD22	1.99	0.44
22:Ac:18:LEU:HB3	22:Ac:29:GLN:HB3	2.00	0.44
22:Ac:47:LYS:NZ	30:AF:141:VAL:HG21	2.31	0.44
26:AJ:131:ARG:HA	26:AJ:143:ASN:OD1	2.18	0.44
27:AE:192:ILE:HG22	27:AE:193:GLY:N	2.32	0.44
29:AG:63:MET:HE2	29:AG:106:LEU:HD21	1.99	0.44
29:AG:131:ARG:O	58:CW:82:ILE:C	2.61	0.44
30:AF:145:ARG:HA	30:AF:145:ARG:HD2	1.40	0.44
30:AF:151:ILE:HA	30:AF:154:LEU:CD2	2.48	0.44
30:AF:174:ALA:O	30:AF:178:ILE:HG13	2.16	0.44
30:AF:175:ASP:OD1	30:AF:175:ASP:O	2.35	0.44
31:AH:83:LEU:CD1	31:AH:92:VAL:CG1	2.94	0.44
31:AH:117:PRO:O	31:AH:119:SER:C	2.59	0.44
31:AH:154:ILE:O	31:AH:154:ILE:HG22	2.17	0.44
31:AH:160:LYS:CB	31:AH:192:PHE:CZ	3.00	0.44
33:AI:21:TYR:OH	36:B2:433:A:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:36:THR:HG23	33:AI:96:LEU:HB2	1.99	0.44
33:AI:54:LYS:HD3	33:AI:181:GLN:OE1	2.17	0.44
34:AQ:145:TYR:HD1	34:AQ:145:TYR:HA	1.42	0.44
36:B2:107:A:H61	36:B2:354:U:H3	1.63	0.44
36:B2:561:A:C6	36:B2:562:U:O4	2.70	0.44
36:B2:845:G:H2'	36:B2:846:G:H8	1.79	0.44
36:B2:1203:G:H2'	36:B2:1204:A:C8	2.52	0.44
36:B2:1412:C:O2'	36:B2:1413:G:O4'	2.27	0.44
36:B2:1495:G:O2'	36:B2:1496:U:H5'	2.17	0.44
36:B2:1551:U:C5	36:B2:1577:G:C6	3.06	0.44
36:B2:1620:A:H4'	36:B2:1621:U:C6	2.52	0.44
39:Cq:242:ILE:HG21	83:Ct:63:VAL:CG2	2.46	0.44
40:CK:22:VAL:HG11	40:CK:45:ASP:HA	1.99	0.44
41:CO:19:LEU:CD2	41:CO:80:PHE:CE1	2.94	0.44
41:CO:188:LYS:CE	41:CO:189:ILE:H	2.29	0.44
41:CO:202:LEU:C	41:CO:203:VAL:CA	2.82	0.44
42:CL:50:PRO:HD3	61:Ch:119:TYR:CE1	2.53	0.44
43:CV:82:ILE:HD12	43:CV:104:VAL:CG1	2.45	0.44
48:CD:39:GLN:O	48:CD:40:ASP:C	2.60	0.44
49:CQ:6:ARG:NH2	64:CF:113:ARG:C	2.74	0.44
50:CR:28:GLU:OE1	55:CU:124:GLU:CD	2.59	0.44
50:CR:105:LEU:HD12	50:CR:135:LYS:CD	2.47	0.44
51:CA:45:VAL:CG2	51:CA:61:VAL:HG22	2.30	0.44
54:CP:71:ALA:O	54:CP:74:LYS:HD2	2.18	0.44
55:CU:37:ALA:O	55:CU:38:ASN:C	2.61	0.44
55:CU:38:ASN:OD1	55:CU:41:GLN:HG2	2.16	0.44
55:CU:48:LYS:C	55:CU:52:LYS:O	2.60	0.44
56:CX:151:ASN:HB3	56:CX:156:ILE:HG12	1.98	0.44
56:CX:153:ILE:HD11	56:CX:155:ILE:HG22	1.99	0.44
58:CW:110:ARG:HD2	58:CW:113:LYS:CE	2.47	0.44
59:CZ:64:LYS:HB2	59:CZ:64:LYS:HE2	1.69	0.44
61:Ch:94:ARG:HG3	61:Ch:94:ARG:NH2	2.32	0.44
62:Cb:63:LYS:HD2	62:Cb:63:LYS:C	2.41	0.44
63:CB:28:LYS:HZ1	85:A5:4581:G:H5''	1.83	0.44
63:CB:32:PHE:HA	63:CB:33:PRO:HD3	1.78	0.44
63:CB:92:TYR:CE2	63:CB:99:LEU:CD1	2.88	0.44
63:CB:234:ARG:HD2	63:CB:271:GLN:O	2.17	0.44
63:CB:292:LEU:CG	63:CB:293:ILE:HG13	2.47	0.44
63:CB:377:GLY:O	63:CB:378:ARG:HD3	2.17	0.44
65:Cc:31:TYR:CD1	65:Cc:31:TYR:C	2.95	0.44
71:Cj:16:HIS:HE1	71:Cj:28:HIS:HB2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:18:SER:OG	74:CC:19:GLY:N	2.49	0.44
81:CE:98:GLY:CA	81:CE:99:ASP:CG	2.64	0.44
81:CE:279:ASN:HD21	85:A5:4753:U:P	2.41	0.44
82:CG:142:THR:HG23	85:A5:151:G:O6	2.17	0.44
82:CG:174:CYS:SG	82:CG:179:VAL:HG11	2.57	0.44
83:Cs:22:THR:OG1	83:Cs:27:LYS:NZ	2.46	0.44
84:Cv:3:TYR:C	84:Cv:7:TYR:CD2	2.92	0.44
85:A5:2082:G:N2	85:A5:2275:G:C4	2.85	0.44
85:A5:2473:A:N1	85:A5:2506:G:C8	2.85	0.44
85:A5:2544:G:C6	87:A8:126:C:C5	3.05	0.44
85:A5:2823:G:H2'	85:A5:2824:C:H5''	2.00	0.44
85:A5:4690:G:O6	85:A5:4697:U:H3'	2.17	0.44
85:A5:4751:G:H2'	85:A5:4752:U:H5'	1.99	0.44
85:A5:4883:C:C3'	85:A5:4884:G:H5''	2.47	0.44
85:A5:5001:U:C3'	85:A5:5002:U:H5''	2.48	0.44
87:A8:110:U:C3'	87:A8:111:U:H5'	2.48	0.44
1:Az:742:GLU:OE2	1:Az:791:ASN:ND2	2.51	0.44
1:Az:800:LEU:O	1:Az:804:THR:HG23	2.17	0.44
1:Az:806:GLY:C	1:Az:807:GLN:O	2.59	0.44
1:Az:807:GLN:OE1	1:Az:807:GLN:HA	2.18	0.44
2:Ag:83:TRP:O	2:Ag:84:ASP:C	2.59	0.44
2:Ag:113:PHE:CE1	2:Ag:120:ILE:HG12	2.52	0.44
2:Ag:156:PHE:CD2	2:Ag:156:PHE:O	2.70	0.44
4:AK:17:LYS:HZ1	35:Ah:287:GLU:HA	1.82	0.44
4:AK:85:LEU:CB	4:AK:86:PRO:HD2	2.47	0.44
6:AX:28:LYS:HE2	6:AX:32:LEU:CD1	2.47	0.44
6:AX:71:ARG:NE	6:AX:82:THR:HG23	2.23	0.44
7:AM:67:ALA:CB	25:Af:114:ILE:CG2	2.81	0.44
7:AM:77:ILE:O	7:AM:78:LYS:HB2	2.17	0.44
8:AS:80:PRO:HB2	8:AS:82:TRP:NE1	2.31	0.44
10:AN:38:TYR:HE1	10:AN:78:LYS:HZ3	1.62	0.44
14:AT:9:VAL:HG12	14:AT:10:ASN:N	2.32	0.44
15:AB:89:GLU:O	15:AB:90:ASP:HB2	2.17	0.44
18:AY:47:MET:O	36:B2:837:A:C2	2.70	0.44
19:AZ:105:ALA:O	19:AZ:106:GLN:CG	2.65	0.44
20:Aa:24:THR:HG21	20:Aa:72:HIS:H	1.83	0.44
26:AJ:100:LEU:HD11	26:AJ:104:ASP:CG	2.42	0.44
28:AC:135:GLY:C	28:AC:165:VAL:HG22	2.42	0.44
29:AG:131:ARG:CG	58:CW:80:ARG:HB3	2.48	0.44
33:AI:205:ARG:O	33:AI:206:LYS:O	2.35	0.44
34:AQ:40:GLU:OE1	34:AQ:40:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:93:VAL:HG13	34:AQ:105:LYS:CG	2.42	0.44
35:Ah:151:PHE:CB	35:Ah:152:SER:CA	2.71	0.44
36:B2:1851:A:H3'	36:B2:1852:C:C5'	2.47	0.44
38:Cz:28:PHE:CG	38:Cz:30:GLU:HA	2.53	0.44
38:Cz:65:VAL:HG12	38:Cz:66:CYS:N	2.31	0.44
38:Cz:65:VAL:HB	38:Cz:82:ILE:HD12	1.99	0.44
38:Cz:100:VAL:HG23	38:Cz:102:LYS:HE2	2.00	0.44
39:Cq:68:HIS:O	39:Cq:70:GLU:N	2.41	0.44
39:Cq:173:THR:O	39:Cq:177:MET:HG2	2.17	0.44
39:Cq:228:GLN:CD	84:Cu:54:VAL:O	2.61	0.44
40:CK:55:GLY:O	40:CK:56:LEU:CD2	2.62	0.44
40:CK:81:ILE:HG13	40:CK:82:ILE:HG13	2.00	0.44
40:CK:114:ARG:O	40:CK:117:ARG:HB2	2.17	0.44
41:CO:203:VAL:CG1	44:CM:97:ALA:HB1	2.47	0.44
42:CL:89:LYS:CD	61:Ch:114:TYR:CG	3.01	0.44
42:CL:169:ILE:O	42:CL:172:GLU:HB2	2.18	0.44
43:CV:88:TYR:HH	43:CV:90:ARG:HG3	1.81	0.44
44:CM:20:HIS:CG	44:CM:45:VAL:HG22	2.52	0.44
44:CM:42:CYS:O	44:CM:44:GLN:HG3	2.17	0.44
46:CN:4:TYR:OH	46:CN:49:ARG:NH1	2.50	0.44
46:CN:6:TYR:OH	70:Ci:40:VAL:HG22	2.14	0.44
46:CN:124:ASP:O	46:CN:127:TYR:N	2.47	0.44
46:CN:149:GLN:O	46:CN:150:TRP:C	2.61	0.44
46:CN:169:ARG:CZ	46:CN:169:ARG:HB2	2.47	0.44
46:CN:186:GLY:HA3	46:CN:191:ALA:CA	2.47	0.44
48:CD:193:GLU:O	48:CD:197:LYS:HG2	2.17	0.44
50:CR:133:LYS:CG	50:CR:137:ILE:HD12	2.45	0.44
51:CA:247:ARG:O	51:CA:250:LYS:CB	2.64	0.44
52:CS:71:SER:C	52:CS:73:LEU:H	2.25	0.44
53:CT:18:PRO:O	53:CT:21:LYS:N	2.50	0.44
56:CX:68:ARG:HE	56:CX:68:ARG:HB2	1.33	0.44
56:CX:73:HIS:C	56:CX:76:ILE:HG22	2.41	0.44
58:CW:12:LYS:HE3	63:CB:388:PHE:CG	2.52	0.44
62:Cb:28:ARG:HA	62:Cb:28:ARG:HD3	1.67	0.44
63:CB:115:LYS:HA	63:CB:118:PHE:HD2	1.81	0.44
63:CB:378:ARG:CG	63:CB:378:ARG:NH1	2.39	0.44
72:Ck:14:THR:HG23	72:Ck:15:ALA:N	2.32	0.44
74:CC:63:SER:CB	74:CC:80:ARG:HD2	2.38	0.44
74:CC:288:ASP:O	74:CC:291:ARG:N	2.51	0.44
78:Co:75:PRO:CA	78:Co:76:ASN:OD1	2.64	0.44
79:CJ:62:ILE:HD12	79:CJ:68:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:CJ:109:ILE:O	79:CJ:109:ILE:HG13	2.17	0.44
80:CH:78:GLN:O	80:CH:82:LYS:CG	2.66	0.44
81:CE:113:PRO:CD	81:CE:114:ARG:N	2.61	0.44
82:CG:194:VAL:O	82:CG:194:VAL:CG1	2.66	0.44
83:Ct:11:TYR:HB3	84:Cv:9:LEU:CG	2.46	0.44
84:Cu:37:ASP:O	84:Cu:41:LYS:HG3	2.18	0.44
1:Az:21:ASN:HD22	1:Az:469:ILE:CD1	2.19	0.44
1:Az:27:HIS:HB3	1:Az:30:HIS:NE2	2.32	0.44
1:Az:154:VAL:HG21	1:Az:358:LEU:CD2	2.48	0.44
1:Az:410:PHE:C	1:Az:411:TYR:HD1	2.25	0.44
1:Az:512:LYS:HG3	1:Az:569:PRO:C	2.42	0.44
1:Az:604:MET:CE	1:Az:702:PHE:CD1	3.00	0.44
1:Az:739:ARG:HH11	1:Az:823:ASP:CB	2.13	0.44
1:Az:745:TYR:CD1	1:Az:815:ASP:N	2.85	0.44
1:Az:778:GLY:O	40:CK:31:LYS:CE	2.65	0.44
2:Ag:32:LEU:CD2	2:Ag:69:VAL:CG2	2.95	0.44
2:Ag:62:HIS:ND1	2:Ag:84:ASP:OD2	2.44	0.44
2:Ag:194:TYR:CE1	2:Ag:196:ASN:ND2	2.83	0.44
7:AM:69:LEU:HD12	7:AM:76:LEU:CD2	2.47	0.44
11:AL:113:LEU:HD11	11:AL:120:VAL:CG1	2.47	0.44
11:AL:114:SER:OG	11:AL:115:PRO:HD2	2.16	0.44
11:AL:149:ALA:HB2	11:AL:156:GLN:CB	2.16	0.44
13:AP:97:TYR:CD1	13:AP:102:PHE:CE2	3.04	0.44
15:AB:55:THR:O	15:AB:56:LYS:CB	2.66	0.44
20:Aa:60:ASP:O	20:Aa:61:ALA:HB3	2.18	0.44
23:AD:192:TRP:O	23:AD:196:GLY:N	2.36	0.44
23:AD:193:ASP:HB3	23:AD:194:PRO:HD3	1.98	0.44
27:AE:7:LYS:HA	27:AE:7:LYS:HD2	1.38	0.44
28:AC:84:PHE:CZ	28:AC:264:SER:CA	2.94	0.44
28:AC:104:ASP:HB3	28:AC:130:ILE:HG13	2.00	0.44
28:AC:182:CYS:SG	28:AC:183:LYS:N	2.90	0.44
29:AG:13:GLN:C	29:AG:14:LYS:HG2	2.43	0.44
29:AG:32:MET:HE2	29:AG:63:MET:HB3	2.00	0.44
29:AG:143:LYS:HE3	29:AG:143:LYS:CA	2.48	0.44
29:AG:162:LEU:CD2	29:AG:172:LYS:CE	2.82	0.44
30:AF:39:ILE:HG23	30:AF:68:ILE:CG2	2.15	0.44
30:AF:44:LYS:CB	30:AF:45:TYR:CD1	3.00	0.44
30:AF:185:SER:OG	30:AF:190:ILE:HD12	2.17	0.44
33:AI:73:THR:O	33:AI:74:ARG:CD	2.65	0.44
33:AI:104:ILE:HG13	33:AI:105:ASP:N	2.26	0.44
38:Cz:23:ARG:HA	38:Cz:212:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:31:THR:HG23	38:Cz:170:GLY:O	2.17	0.44
38:Cz:163:LEU:HD22	38:Cz:163:LEU:O	2.17	0.44
38:Cz:165:LEU:CD2	38:Cz:190:LEU:CD2	2.95	0.44
39:Cq:44:ARG:HH21	39:Cq:53:VAL:HG12	1.82	0.44
39:Cq:182:PRO:HB2	39:Cq:183:PHE:CD2	2.52	0.44
39:Cq:220:ARG:HD3	83:Cs:63:VAL:HG13	2.00	0.44
39:Cq:264:LYS:HD3	39:Cq:264:LYS:HA	1.57	0.44
41:CO:120:VAL:O	41:CO:124:LEU:HD13	2.15	0.44
44:CM:42:CYS:O	44:CM:44:GLN:N	2.50	0.44
44:CM:43:THR:O	44:CM:44:GLN:C	2.60	0.44
44:CM:107:PHE:O	44:CM:110:PHE:HB3	2.16	0.44
45:Ca:24:LYS:HE2	45:Ca:26:ARG:NH2	2.32	0.44
46:CN:28:TRP:CZ3	82:CG:67:ARG:NH1	2.85	0.44
47:CI:197:VAL:HG22	47:CI:198:LYS:N	2.33	0.44
49:CQ:18:PRO:HG3	49:CQ:29:VAL:HG21	1.99	0.44
54:CP:131:ARG:HD2	54:CP:137:ASN:HD22	0.80	0.44
56:CX:156:ILE:H	61:Ch:37:THR:HG22	1.83	0.44
57:CY:20:ASN:O	57:CY:21:ALA:C	2.60	0.44
57:CY:39:ARG:O	57:CY:43:ASN:CG	2.59	0.44
58:CW:50:ASN:HA	58:CW:55:TYR:CD2	2.51	0.44
59:CZ:4:PHE:HA	59:CZ:6:LYS:HE3	1.99	0.44
59:CZ:105:ALA:C	59:CZ:108:ARG:CG	2.88	0.44
60:Cr:72:LYS:O	60:Cr:72:LYS:HE2	2.15	0.44
63:CB:60:VAL:CG2	63:CB:72:VAL:CG1	2.95	0.44
64:CF:67:THR:O	64:CF:71:MET:CG	2.53	0.44
65:Cc:90:ARG:CZ	77:Cp:44:LYS:HG2	2.47	0.44
66:Cd:20:VAL:O	66:Cd:20:VAL:HG12	2.16	0.44
67:Ce:88:LEU:HD22	67:Ce:95:TYR:HB2	1.98	0.44
67:Ce:126:ASN:O	67:Ce:127:ALA:O	2.34	0.44
70:Ci:73:ILE:HA	70:Ci:76:ARG:HB3	1.99	0.44
72:Ck:27:LYS:C	72:Ck:27:LYS:CD	2.90	0.44
74:CC:25:PRO:O	74:CC:26:ALA:HB3	2.16	0.44
74:CC:43:ASN:HB3	74:CC:115:VAL:CG2	2.48	0.44
74:CC:86:ARG:O	74:CC:86:ARG:CD	2.65	0.44
78:Co:21:HIS:HA	78:Co:71:GLU:O	2.16	0.44
80:CH:69:THR:C	80:CH:72:THR:HG22	2.41	0.44
81:CE:83:LYS:HZ2	81:CE:87:LYS:N	2.11	0.44
81:CE:89:LEU:HD12	81:CE:89:LEU:O	2.16	0.44
81:CE:137:VAL:O	81:CE:138:ARG:HG3	2.17	0.44
81:CE:242:ILE:HD12	85:A5:4939:C:O4'	2.17	0.44
81:CE:266:GLN:HE22	85:A5:4929:C:H5''	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:280:GLY:C	81:CE:282:TYR:CD2	2.91	0.44
82:CG:25:LYS:HG2	82:CG:26:LYS:N	2.32	0.44
82:CG:32:PHE:O	82:CG:33:GLU:OE2	2.36	0.44
82:CG:105:GLU:HB3	82:CG:109:GLU:OE1	2.17	0.44
82:CG:206:GLN:C	82:CG:207:VAL:HG23	2.42	0.44
84:Cu:15:ASN:O	84:Cu:16:SER:C	2.60	0.44
84:Cv:10:ALA:CB	84:Cv:15:ASN:HB2	2.43	0.44
85:A5:116:G:HO2'	85:A5:117:C:H6	1.56	0.44
85:A5:4993:G:N1	85:A5:5058:A:C2	2.84	0.44
1:Az:150:ARG:O	1:Az:200:MET:HE1	2.18	0.44
1:Az:745:TYR:CB	1:Az:815:ASP:CB	2.92	0.44
1:Az:751:CYS:SG	1:Az:756:VAL:HA	2.58	0.44
2:Ag:18:VAL:O	2:Ag:287:THR:HG23	2.17	0.44
2:Ag:143:GLN:O	2:Ag:144:ASP:HB3	2.16	0.44
2:Ag:191:HIS:CE1	2:Ag:195:LEU:HD21	2.52	0.44
3:AU:46:LYS:HZ1	3:AU:97:ILE:CG1	2.21	0.44
5:AO:71:PRO:O	5:AO:74:ALA:HB3	2.17	0.44
7:AM:12:MET:HG2	7:AM:16:THR:HG22	1.98	0.44
7:AM:77:ILE:CD1	7:AM:78:LYS:N	2.80	0.44
8:AS:42:HIS:CB	14:AT:45:LEU:CD1	2.88	0.44
8:AS:83:PHE:O	8:AS:83:PHE:CG	2.70	0.44
11:AL:128:VAL:HG12	11:AL:142:VAL:HA	1.98	0.44
12:AR:124:VAL:CG1	12:AR:125:GLY:N	2.79	0.44
14:AT:23:LYS:HD2	14:AT:54:TYR:CE2	2.45	0.44
14:AT:56:ARG:CD	14:AT:103:VAL:HG21	2.48	0.44
14:AT:65:TYR:CD2	14:AT:123:LEU:HD12	2.51	0.44
14:AT:87:VAL:CG1	14:AT:88:MET:N	2.80	0.44
15:AB:31:TYR:CD2	15:AB:62:LEU:HD22	2.53	0.44
15:AB:56:LYS:CE	15:AB:56:LYS:HA	2.48	0.44
15:AB:72:ALA:CB	15:AB:79:VAL:HG23	2.46	0.44
16:AA:102:ARG:HH21	16:AA:105:PRO:HD2	1.82	0.44
16:AA:167:GLY:O	16:AA:170:SER:OG	2.30	0.44
16:AA:204:TYR:HD2	16:AA:204:TYR:O	2.00	0.44
20:Aa:85:ARG:O	20:Aa:87:ARG:HG3	2.17	0.44
22:Ac:14:VAL:HG23	22:Ac:54:ASP:O	2.18	0.44
23:AD:59:LEU:HD13	23:AD:60:GLY:O	2.17	0.44
23:AD:84:VAL:HG22	23:AD:85:GLU:N	2.33	0.44
26:AJ:117:LEU:O	26:AJ:119:LEU:CD2	2.49	0.44
27:AE:151:ASP:CB	27:AE:152:PRO:CD	2.94	0.44
28:AC:172:ASN:O	28:AC:174:ILE:N	2.50	0.44
29:AG:25:ARG:O	29:AG:28:TYR:N	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:161:PRO:HA	29:AG:170:ARG:O	2.17	0.44
30:AF:121:PRO:CA	30:AF:193:LYS:HE3	2.39	0.44
31:AH:65:PRO:HB2	31:AH:67:PRO:HD2	2.00	0.44
31:AH:116:ARG:HG2	31:AH:117:PRO:N	2.32	0.44
32:AW:7:LEU:CD2	32:AW:34:ILE:HG13	2.46	0.44
32:AW:20:ARG:CZ	36:B2:1139:C:H1'	2.47	0.44
32:AW:29:PRO:O	32:AW:30:CYS:CB	2.66	0.44
33:AI:5:ARG:NH1	36:B2:384:U:N3	2.66	0.44
36:B2:102:A:H5'	36:B2:104:A:C4	2.53	0.44
38:Cz:29:LEU:HD13	38:Cz:29:LEU:C	2.42	0.44
39:Cq:26:LYS:NZ	39:Cq:94:ASP:H	2.15	0.44
39:Cq:26:LYS:NZ	39:Cq:98:ILE:HD11	2.33	0.44
39:Cq:110:ALA:CB	39:Cq:181:SER:CB	2.79	0.44
39:Cq:141:LEU:O	39:Cq:142:GLY:C	2.60	0.44
41:CO:81:TRP:CH2	41:CO:85:ARG:NH2	2.85	0.44
41:CO:82:ARG:HD3	41:CO:85:ARG:HH11	1.82	0.44
41:CO:181:ALA:HB1	44:CM:126:GLU:CB	2.47	0.44
44:CM:5:ARG:C	44:CM:11:ARG:CZ	2.91	0.44
45:Ca:60:HIS:NE2	85:A5:4354:U:C6	2.86	0.44
46:CN:29:GLN:HG2	82:CG:67:ARG:CD	2.46	0.44
46:CN:115:VAL:C	46:CN:159:ARG:NH2	2.60	0.44
46:CN:146:PRO:O	46:CN:149:GLN:HG3	2.18	0.44
47:CI:142:LEU:C	47:CI:144:ASN:H	2.25	0.44
47:CI:174:THR:C	47:CI:175:LYS:O	2.56	0.44
48:CD:33:ARG:NH1	48:CD:50:ARG:NH1	2.63	0.44
49:CQ:31:LEU:O	49:CQ:35:LEU:HG	2.17	0.44
49:CQ:76:GLU:C	49:CQ:78:LYS:HE3	2.43	0.44
49:CQ:170:LYS:HB2	49:CQ:170:LYS:HE3	1.27	0.44
54:CP:10:ASN:HD22	54:CP:12:THR:N	2.15	0.44
54:CP:15:CYS:HG	54:CP:105:LYS:HG2	1.83	0.44
54:CP:41:ILE:HD12	54:CP:112:LEU:C	2.43	0.44
58:CW:67:ILE:O	58:CW:67:ILE:CG2	2.65	0.44
59:CZ:35:ASP:O	59:CZ:37:PRO:CD	2.66	0.44
59:CZ:54:THR:H	59:CZ:54:THR:HG23	1.35	0.44
59:CZ:81:MET:HE3	69:Cg:95:PHE:HD2	1.78	0.44
60:Cr:16:PHE:CB	60:Cr:28:GLU:HG2	2.47	0.44
63:CB:133:TYR:CD1	63:CB:136:LYS:HE3	2.52	0.44
64:CF:94:ARG:NH1	64:CF:98:ILE:HB	2.32	0.44
64:CF:224:THR:O	64:CF:225:THR:C	2.56	0.44
68:Cf:10:ILE:CA	68:Cf:101:ILE:CD1	2.95	0.44
68:Cf:47:CYS:SG	68:Cf:72:GLY:C	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Ci:38:LYS:HA	70:Ci:38:LYS:HD3	1.69	0.44
72:Ck:14:THR:HA	72:Ck:17:ARG:HG2	1.99	0.44
74:CC:6:PRO:CB	74:CC:24:LEU:HD22	2.48	0.44
74:CC:51:PRO:HB3	74:CC:111:TRP:HE1	1.78	0.44
74:CC:77:PRO:CD	74:CC:77:PRO:O	2.65	0.44
78:Co:65:LYS:C	78:Co:66:ILE:HD13	2.31	0.44
81:CE:129:GLY:C	85:A5:1282:G:N2	2.76	0.44
81:CE:174:LEU:C	81:CE:175:VAL:HG23	2.43	0.44
83:Cs:22:THR:N	83:Cs:27:LYS:NZ	2.55	0.44
83:Ct:11:TYR:HE2	84:Cv:12:LEU:CD1	2.09	0.44
83:Ct:16:LEU:CD2	83:Ct:31:LEU:CD1	2.69	0.44
83:Ct:40:GLU:O	83:Ct:44:PRO:HG3	2.17	0.44
83:Ct:47:PHE:O	83:Ct:51:LEU:HG	2.16	0.44
85:A5:1997:U:H3'	85:A5:1998:A:H5''	2.00	0.44
87:A8:90:C:H2'	87:A8:91:A:C8	2.53	0.44
1:Az:33:SER:CA	1:Az:57:THR:HG21	2.47	0.44
1:Az:425:LEU:HD23	1:Az:426:LYS:H	1.78	0.44
2:Ag:144:ASP:O	2:Ag:145:GLU:C	2.58	0.44
3:AU:106:ILE:O	3:AU:107:GLU:CB	2.65	0.44
4:AK:14:LEU:HD11	4:AK:35:LEU:HD11	1.99	0.44
4:AK:27:VAL:HG13	4:AK:43:LEU:HD22	0.45	0.44
4:AK:52:LEU:O	4:AK:55:ARG:HG3	2.18	0.44
5:AO:47:LEU:O	15:AB:67:PHE:HD1	1.95	0.44
7:AM:35:ILE:HG22	36:B2:1286:G:N7	2.32	0.44
7:AM:35:ILE:CB	7:AM:61:TYR:CE2	2.95	0.44
8:AS:55:ARG:NH1	19:AZ:80:ARG:HE	2.03	0.44
10:AN:54:LEU:O	10:AN:60:VAL:HG22	2.18	0.44
12:AR:41:ILE:HG23	12:AR:42:PRO:HD3	2.00	0.44
13:AP:44:ARG:CD	36:B2:1620:A:OP1	2.66	0.44
13:AP:128:HIS:HB3	36:B2:1522:A:C4	2.52	0.44
14:AT:31:PRO:O	14:AT:33:TRP:CG	2.70	0.44
14:AT:76:THR:C	14:AT:95:GLY:N	2.64	0.44
16:AA:141:ASN:ND2	17:AV:29:HIS:CA	2.78	0.44
18:AY:86:GLU:O	18:AY:87:PRO:O	2.35	0.44
19:AZ:74:SER:HA	19:AZ:79:ILE:CG2	2.34	0.44
20:Aa:11:ALA:O	20:Aa:33:ASP:HB2	2.17	0.44
21:Ab:81:ARG:H	21:Ab:82:LYS:HB2	1.83	0.44
25:Af:140:TYR:HE1	25:Af:146:LEU:O	1.90	0.44
25:Af:143:LYS:HB2	36:B2:1310:U:H4'	2.00	0.44
28:AC:64:THR:HG21	28:AC:90:GLU:HG3	1.98	0.44
28:AC:159:LYS:O	28:AC:162:ILE:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:244:ILE:HG13	28:AC:245:SER:H	1.77	0.44
29:AG:130:PRO:CG	58:CW:83:THR:HG22	2.48	0.44
29:AG:168:LYS:HE3	36:B2:71:G:C8	2.52	0.44
29:AG:173:ALA:HB3	36:B2:77:A:H4'	1.99	0.44
30:AF:127:ARG:O	30:AF:127:ARG:HD2	2.16	0.44
32:AW:24:GLN:HA	32:AW:63:VAL:O	2.18	0.44
34:AQ:117:ARG:C	34:AQ:118:THR:HG23	2.43	0.44
34:AQ:135:PRO:CG	34:AQ:141:TYR:CE1	2.71	0.44
35:Ah:157:ILE:C	35:Ah:157:ILE:CG2	2.91	0.44
36:B2:338:G:O6	36:B2:339:A:C6	2.70	0.44
36:B2:557:U:C4	36:B2:558:G:C5	3.05	0.44
36:B2:839:C:C2'	36:B2:841:G:C4'	2.92	0.44
36:B2:1049:A:C2	36:B2:1070:A:C4	3.05	0.44
36:B2:1497:G:H4'	36:B2:1498:A:H5'	1.98	0.44
36:B2:1845:A:H2'	36:B2:1846:G:C8	2.52	0.44
38:Cz:162:VAL:O	38:Cz:162:VAL:HG12	2.16	0.44
40:CK:110:VAL:O	40:CK:114:ARG:CD	2.66	0.44
41:CO:36:VAL:CG1	41:CO:37:ARG:N	2.80	0.44
42:CL:21:ARG:HE	46:CN:196:ASN:CB	2.28	0.44
44:CM:47:ARG:HH12	44:CM:70:GLN:HG3	1.82	0.44
45:Ca:28:HIS:NE2	45:Ca:32:ARG:NH2	2.66	0.44
46:CN:163:GLY:O	46:CN:172:ARG:HD3	2.18	0.44
47:CI:181:PHE:CZ	47:CI:185:VAL:HG21	2.53	0.44
48:CD:167:VAL:HG11	48:CD:175:HIS:HE1	1.83	0.44
49:CQ:17:GLU:OE2	49:CQ:18:PRO:N	2.50	0.44
50:CR:46:LYS:HE2	50:CR:46:LYS:HB2	1.26	0.44
51:CA:29:LEU:O	51:CA:123:ARG:NE	2.47	0.44
52:CS:17:LEU:CG	52:CS:58:SER:CA	2.81	0.44
52:CS:111:ARG:HH21	52:CS:111:ARG:HG3	1.69	0.44
55:CU:35:ASP:OD2	55:CU:37:ALA:HB3	2.17	0.44
57:CY:90:ALA:O	57:CY:91:ASN:OD1	2.36	0.44
59:CZ:30:ASP:O	59:CZ:39:SER:CA	2.66	0.44
59:CZ:87:VAL:CG2	59:CZ:127:ASN:ND2	2.70	0.44
60:Cr:90:LEU:CB	60:Cr:118:LEU:HD21	2.36	0.44
60:Cr:109:ALA:O	60:Cr:113:ARG:HG2	2.18	0.44
63:CB:36:ASP:OD1	63:CB:36:ASP:C	2.60	0.44
63:CB:49:TYR:CE1	63:CB:344:VAL:CG2	2.95	0.44
63:CB:80:GLU:CG	63:CB:171:LEU:CD2	2.93	0.44
63:CB:82:PRO:HB2	63:CB:170:LEU:HD12	2.00	0.44
63:CB:360:LEU:O	63:CB:361:GLU:O	2.35	0.44
63:CB:381:THR:HG21	63:CB:383:GLU:CD	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:CF:213:LEU:HB2	64:CF:247:MET:HE2	2.00	0.44
68:Cf:6:TRP:O	68:Cf:103:VAL:N	2.51	0.44
69:Cg:9:ARG:HH11	69:Cg:9:ARG:CG	2.31	0.44
72:Ck:48:THR:O	72:Ck:48:THR:OG1	2.30	0.44
74:CC:58:ALA:C	74:CC:60:HIS:N	2.74	0.44
75:Cm:86:ALA:CB	80:CH:176:LEU:HB3	2.47	0.44
77:Cp:36:LYS:HZ1	77:Cp:46:LYS:HZ1	1.63	0.44
77:Cp:80:LYS:HB2	77:Cp:80:LYS:HE3	1.68	0.44
81:CE:93:THR:O	81:CE:94:LYS:CD	2.66	0.44
82:CG:86:ALA:HB3	82:CG:183:ILE:HD13	1.99	0.44
83:Cs:60:ILE:O	83:Cs:63:VAL:HG23	2.18	0.44
84:Cu:49:LYS:HA	84:Cu:49:LYS:CE	2.36	0.44
85:A5:707:C:H4'	85:A5:4944:C:H41	1.81	0.44
85:A5:971:U:C5	85:A5:973:G:O4'	2.71	0.44
85:A5:1214:C:H3'	85:A5:1215:C:H5'	1.99	0.44
85:A5:3968:U:H2'	85:A5:3969:G:C8	2.52	0.44
1:Az:27:HIS:HB3	1:Az:30:HIS:CD2	2.52	0.44
1:Az:58:ASP:O	1:Az:63:GLU:C	2.61	0.44
1:Az:165:LEU:CD1	1:Az:305:MET:HE1	2.22	0.44
1:Az:578:SER:C	1:Az:579:TYR:HD2	2.22	0.44
1:Az:779:THR:O	1:Az:780:PRO:C	2.59	0.44
4:AK:43:LEU:O	4:AK:46:MET:N	2.50	0.44
6:AX:107:ARG:O	6:AX:108:LYS:CB	2.66	0.44
6:AX:129:SER:OG	6:AX:132:ALA:CB	2.60	0.44
8:AS:71:MET:HE3	8:AS:99:LEU:HD13	2.00	0.44
9:Ad:42:CYS:O	9:Ad:45:GLN:N	2.49	0.44
10:AN:67:THR:C	10:AN:69:ASN:H	2.24	0.44
11:AL:55:TYR:CG	11:AL:115:PRO:HG2	2.53	0.44
12:AR:19:LYS:HD3	23:AD:212:GLU:HB2	1.96	0.44
18:AY:59:GLY:O	36:B2:572:U:H5''	2.18	0.44
18:AY:102:THR:HB	18:AY:104:ARG:H	1.78	0.44
19:AZ:51:ASP:HB2	19:AZ:54:THR:HG23	1.98	0.44
19:AZ:101:SER:O	19:AZ:107:VAL:C	2.60	0.44
19:AZ:104:ARG:CZ	36:B2:1595:U:C5	3.01	0.44
22:Ac:44:ARG:NE	22:Ac:58:LEU:HD22	2.31	0.44
23:AD:124:ARG:NH1	23:AD:128:GLU:OE1	2.51	0.44
23:AD:197:LYS:H	23:AD:198:ILE:HG13	1.81	0.44
26:AJ:132:GLN:O	26:AJ:133:ARG:HB2	2.16	0.44
27:AE:9:LEU:HD12	27:AE:30:ARG:HA	1.99	0.44
27:AE:106:LYS:HA	27:AE:106:LYS:HD2	1.55	0.44
27:AE:197:ASN:O	27:AE:209:HIS:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:AE:258:ALA:HA	27:AE:262:SER:OG	2.18	0.44
28:AC:147:VAL:HG23	35:Ah:183:ASP:OD2	2.18	0.44
28:AC:195:LEU:HB3	28:AC:222:CYS:SG	2.58	0.44
29:AG:131:ARG:N	58:CW:81:ALA:C	2.70	0.44
29:AG:217:MET:HE3	29:AG:217:MET:HB3	1.75	0.44
31:AH:87:PHE:O	31:AH:88:SER:C	2.61	0.44
31:AH:106:ARG:CZ	36:B2:861:A:N3	2.81	0.44
32:AW:37:PHE:CZ	32:AW:103:VAL:HG11	2.53	0.44
33:AI:98:LYS:O	33:AI:99:ASN:CB	2.66	0.44
33:AI:118:ALA:CB	33:AI:149:TYR:CD1	3.01	0.44
34:AQ:74:GLY:HA2	36:B2:1545:A:H4'	1.99	0.44
35:Ah:152:SER:CB	35:Ah:154:ASP:C	2.91	0.44
38:Cz:19:HIS:NE2	38:Cz:22:GLN:CG	2.81	0.44
38:Cz:209:THR:O	38:Cz:210:MET:CA	2.27	0.44
39:Cq:135:THR:HG23	39:Cq:152:ILE:CD1	2.47	0.44
39:Cq:174:LEU:HD12	39:Cq:175:LEU:CA	2.48	0.44
40:CK:2:PRO:HD2	40:CK:6:ASP:OD2	2.18	0.44
40:CK:22:VAL:CG2	40:CK:48:LYS:HE3	2.48	0.44
40:CK:46:ILE:HG22	40:CK:46:ILE:O	2.17	0.44
45:Ca:47:LYS:HG2	45:Ca:48:TYR:H	1.83	0.44
46:CN:43:THR:CB	46:CN:131:GLU:OE2	2.64	0.44
48:CD:77:ALA:O	48:CD:108:ARG:NH2	2.45	0.44
48:CD:118:ILE:HG22	48:CD:135:ILE:CD1	2.45	0.44
49:CQ:28:LEU:HA	74:CC:284:MET:CE	2.48	0.44
49:CQ:84:GLY:CA	49:CQ:103:LEU:HD12	2.47	0.44
49:CQ:146:ARG:HH22	49:CQ:152:PHE:HE2	1.66	0.44
50:CR:89:MET:HA	50:CR:90:PRO:HD3	1.70	0.44
50:CR:133:LYS:CG	50:CR:137:ILE:CG2	2.90	0.44
52:CS:71:SER:HB2	52:CS:74:ARG:HB3	1.99	0.44
52:CS:110:TYR:OH	52:CS:126:ILE:HG12	2.17	0.44
53:CT:143:THR:O	53:CT:146:LYS:CG	2.66	0.44
56:CX:53:ARG:O	56:CX:54:LEU:O	2.36	0.44
56:CX:55:ARG:HD2	56:CX:55:ARG:N	2.33	0.44
57:CY:104:VAL:HG12	57:CY:105:VAL:C	2.43	0.44
58:CW:11:TYR:CG	63:CB:378:ARG:NH2	2.85	0.44
58:CW:19:ARG:NH2	85:A5:4630:G:H4'	2.32	0.44
58:CW:99:GLU:CD	58:CW:99:GLU:N	2.76	0.44
60:Cr:46:ARG:HB3	60:Cr:68:SER:CB	2.07	0.44
60:Cr:89:THR:HB	81:CE:110:ARG:CB	2.47	0.44
61:Ch:28:LEU:HD23	61:Ch:28:LEU:HA	1.87	0.44
61:Ch:59:THR:O	61:Ch:63:GLN:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:Cb:54:LEU:O	62:Cb:54:LEU:HD23	2.16	0.44
64:CF:46:ARG:HH12	85:A5:1700:G:H1	1.65	0.44
65:Cc:17:ARG:HB3	65:Cc:104:ILE:HG21	1.98	0.44
66:Cd:27:ILE:CD1	66:Cd:52:PHE:CD2	2.96	0.44
67:Ce:78:LEU:HD23	67:Ce:78:LEU:HA	1.82	0.44
68:Cf:6:TRP:O	68:Cf:7:SER:O	2.36	0.44
68:Cf:51:TYR:CZ	68:Cf:68:ARG:HD2	2.53	0.44
69:Cg:63:VAL:CG1	69:Cg:67:LEU:CD1	2.96	0.44
72:Ck:44:THR:HG21	85:A5:2692:U:O3'	2.18	0.44
74:CC:27:VAL:HG21	74:CC:264:TYR:CG	2.53	0.44
74:CC:39:PHE:HE1	74:CC:115:VAL:HG22	1.83	0.44
74:CC:161:TYR:CE2	74:CC:170:LEU:HD22	2.53	0.44
74:CC:351:VAL:O	74:CC:352:ASP:C	2.61	0.44
76:Cn:7:LYS:O	76:Cn:11:ARG:HG3	2.17	0.44
81:CE:53:GLY:CA	81:CE:63:TYR:CD2	3.00	0.44
81:CE:237:LYS:HB2	81:CE:237:LYS:HE3	1.77	0.44
82:CG:95:LEU:HA	82:CG:218:LEU:HD22	1.98	0.44
85:A5:116:G:C4	85:A5:117:C:C5	3.05	0.44
85:A5:2325:C:O2	85:A5:2325:C:C2'	2.64	0.44
1:Az:36:THR:O	1:Az:40:VAL:HG23	2.17	0.44
1:Az:319:LEU:O	1:Az:320:ASP:HB2	2.18	0.44
1:Az:713:ALA:O	1:Az:716:ARG:C	2.61	0.44
2:Ag:2:THR:O	2:Ag:2:THR:OG1	2.30	0.44
2:Ag:95:GLY:O	2:Ag:96:THR:HG22	2.18	0.44
2:Ag:249:CYS:SG	2:Ag:256:ILE:CG2	3.06	0.44
3:AU:19:ARG:HD2	3:AU:19:ARG:N	2.32	0.44
3:AU:57:PRO:O	3:AU:57:PRO:CD	2.66	0.44
3:AU:103:SER:O	3:AU:106:ILE:HG22	2.10	0.44
3:AU:104:ILE:HG21	3:AU:104:ILE:HD13	1.71	0.44
4:AK:18:GLU:O	4:AK:92:ALA:HB1	2.04	0.44
4:AK:87:PRO:C	4:AK:89:ILE:N	2.75	0.44
4:AK:88:GLU:HB3	35:Ah:282:GLU:CA	2.47	0.44
4:AK:90:VAL:HA	4:AK:91:PRO:HD2	1.81	0.44
6:AX:126:ALA:CB	6:AX:128:VAL:CG1	2.88	0.44
7:AM:51:VAL:CB	7:AM:77:ILE:HG21	2.46	0.44
8:AS:82:TRP:HA	8:AS:87:GLN:NE2	2.28	0.44
10:AN:54:LEU:C	10:AN:60:VAL:CG2	2.90	0.44
10:AN:82:PRO:O	10:AN:84:LEU:N	2.51	0.44
11:AL:136:LYS:HG2	11:AL:137:THR:N	2.27	0.44
13:AP:86:LEU:HG	13:AP:89:MET:HE3	1.99	0.44
13:AP:126:VAL:HG13	36:B2:1520:G:H21	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:99:ASN:ND2	15:AB:228:LEU:HD23	2.32	0.44
15:AB:116:LYS:O	15:AB:117:TRP:CB	2.65	0.44
15:AB:146:ARG:O	15:AB:148:ASN:N	2.51	0.44
15:AB:175:GLU:CG	15:AB:193:ILE:HD11	2.46	0.44
16:AA:127:PRO:HD3	16:AA:147:LEU:O	2.18	0.44
16:AA:161:ILE:HG21	16:AA:174:MET:CE	2.48	0.44
18:AY:118:ARG:HH21	29:AG:85:ARG:NH1	2.15	0.44
23:AD:82:GLY:O	23:AD:83:SER:C	2.45	0.44
23:AD:141:LYS:CD	23:AD:179:GLN:CG	2.87	0.44
23:AD:172:VAL:HG11	36:B2:1335:G:H4'	2.00	0.44
23:AD:216:GLU:OE1	23:AD:217:ILE:N	2.51	0.44
23:AD:223:ILE:HD12	23:AD:223:ILE:N	2.31	0.44
25:Af:136:PHE:O	25:Af:138:ARG:CB	2.66	0.44
26:AJ:136:ARG:NE	26:AJ:160:SER:HB2	2.33	0.44
27:AE:18:TRP:CD2	27:AE:46:ILE:CD1	3.01	0.44
27:AE:34:GLY:HA3	27:AE:83:PRO:HG2	2.00	0.44
28:AC:108:LYS:HG2	28:AC:110:MET:H	1.83	0.44
28:AC:173:LYS:H	28:AC:173:LYS:HG3	1.45	0.44
30:AF:133:THR:HG21	30:AF:135:ARG:NH1	2.33	0.44
30:AF:154:LEU:CD1	30:AF:154:LEU:C	2.88	0.44
31:AH:18:GLU:O	31:AH:21:SER:HB2	2.18	0.44
31:AH:117:PRO:HG2	31:AH:120:ARG:HE	1.81	0.44
32:AW:89:TRP:HB3	32:AW:102:ILE:HD13	1.99	0.44
33:AI:81:VAL:CG1	33:AI:91:VAL:HA	2.48	0.44
33:AI:140:LYS:N	33:AI:145:ILE:HD11	2.32	0.44
34:AQ:38:PRO:C	34:AQ:40:GLU:H	2.26	0.44
34:AQ:124:PRO:CD	34:AQ:125:ARG:N	2.81	0.44
34:AQ:141:TYR:HB3	34:AQ:142:GLN:H	1.61	0.44
35:Ah:158:ILE:CA	35:Ah:161:PRO:HG2	2.48	0.44
36:B2:907:G:O6	36:B2:908:A:C6	2.71	0.44
36:B2:991:G:C6	36:B2:1134:G:H4'	2.53	0.44
36:B2:1411:G:C6	36:B2:1412:C:C2	3.06	0.44
36:B2:1451:G:O2'	36:B2:1474:A:N6	2.50	0.44
38:Cz:59:PRO:HD3	38:Cz:153:SER:OG	2.17	0.44
39:Cq:191:GLN:HE22	39:Cq:198:ILE:HG22	1.72	0.44
39:Cq:242:ILE:O	39:Cq:246:LYS:HG3	2.18	0.44
39:Cq:264:LYS:C	39:Cq:268:PHE:CE2	2.96	0.44
41:CO:26:GLN:NE2	52:CS:166:ARG:HB3	2.29	0.44
42:CL:55:ILE:HD12	42:CL:96:ILE:CG1	2.45	0.44
43:CV:73:ARG:C	43:CV:74:LYS:CG	2.90	0.44
43:CV:85:ARG:HG3	43:CV:99:GLU:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:CM:4:ARG:HH22	85:A5:4763:U:H5'	1.81	0.44
44:CM:46:ARG:CG	44:CM:47:ARG:N	2.80	0.44
46:CN:30:TYR:OH	46:CN:43:THR:HG21	2.16	0.44
46:CN:116:LEU:CD2	46:CN:135:ILE:HD12	2.26	0.44
47:CI:10:ARG:O	47:CI:10:ARG:HG3	2.13	0.44
47:CI:26:VAL:HG11	47:CI:96:VAL:CG2	2.48	0.44
47:CI:76:MET:CE	47:CI:151:ALA:HB3	2.48	0.44
47:CI:104:SER:HB2	47:CI:112:GLN:CG	2.45	0.44
48:CD:260:GLU:HG3	48:CD:261:VAL:H	1.82	0.44
49:CQ:33:ARG:CZ	49:CQ:52:PHE:HZ	2.31	0.44
50:CR:84:THR:HG22	50:CR:85:ALA:H	1.82	0.44
50:CR:170:ARG:O	50:CR:174:GLU:HB3	2.18	0.44
51:CA:96:LEU:CD1	51:CA:108:PRO:HD2	2.48	0.44
51:CA:101:VAL:HG23	51:CA:164:ALA:O	2.18	0.44
54:CP:27:LYS:CD	54:CP:63:TYR:CD1	3.00	0.44
54:CP:76:TRP:HE3	54:CP:76:TRP:HA	1.83	0.44
56:CX:39:LYS:HE3	56:CX:40:ILE:O	2.18	0.44
57:CY:2:LYS:O	57:CY:2:LYS:HG2	2.17	0.44
58:CW:31:PHE:CE1	58:CW:40:PHE:CG	3.06	0.44
59:CZ:10:VAL:CG1	59:CZ:83:THR:HG21	2.48	0.44
61:Ch:20:GLN:O	61:Ch:24:LEU:HG	2.18	0.44
61:Ch:109:ARG:HH22	61:Ch:110:LYS:HG3	1.82	0.44
63:CB:52:GLY:O	63:CB:78:ILE:CD1	2.62	0.44
63:CB:53:MET:HG2	63:CB:77:THR:HG22	1.99	0.44
63:CB:196:TRP:O	63:CB:200:ARG:HG2	2.17	0.44
63:CB:328:ASN:O	63:CB:329:ASP:C	2.61	0.44
64:CF:155:TYR:HE2	74:CC:325:MET:HE1	1.83	0.44
65:Cc:99:PRO:CA	65:Cc:105:ILE:HD11	2.48	0.44
67:Ce:129:LEU:HG	67:Ce:130:ARG:H	1.79	0.44
69:Cg:29:ARG:CD	69:Cg:29:ARG:C	2.77	0.44
69:Cg:68:SER:C	69:Cg:70:THR:N	2.74	0.44
70:Ci:77:VAL:HG11	70:Ci:82:ARG:CB	2.47	0.44
71:Cj:73:ARG:HG2	87:A8:94:G:H5'	1.99	0.44
73:Cl:30:LYS:HB2	73:Cl:30:LYS:HE2	1.72	0.44
74:CC:16:GLU:HB2	74:CC:17:SER:H	1.57	0.44
74:CC:71:ARG:O	74:CC:72:ALA:C	2.60	0.44
74:CC:337:ARG:CZ	81:CE:62:MET:HE1	2.47	0.44
74:CC:370:ALA:C	74:CC:371:VAL:O	2.57	0.44
78:Co:65:LYS:HG3	78:Co:86:LYS:CA	2.48	0.44
80:CH:29:GLY:CA	80:CH:84:VAL:HG22	2.47	0.44
80:CH:98:HIS:O	80:CH:100:PRO:HD3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:129:ARG:HH11	80:CH:153:LEU:CD2	2.30	0.44
81:CE:56:ARG:N	81:CE:61:ALA:H	2.13	0.44
81:CE:78:SER:HB2	81:CE:79:LYS:CA	2.46	0.44
81:CE:127:SER:CB	81:CE:129:GLY:N	2.81	0.44
83:Cs:7:LEU:C	84:Cu:12:LEU:CD1	2.88	0.44
85:A5:663:G:H3'	85:A5:664:G:H5''	2.00	0.44
85:A5:1271:G:H3'	85:A5:1272:C:C5'	2.48	0.44
85:A5:2597:G:H2'	85:A5:2598:A:C8	2.53	0.44
85:A5:4326:G:H2'	85:A5:4327:C:C6	2.53	0.44
1:Az:113:SER:CB	1:Az:499:PHE:CG	3.01	0.44
1:Az:402:VAL:O	1:Az:403:PRO:C	2.60	0.44
1:Az:617:ILE:HG12	1:Az:622:VAL:CG2	2.43	0.44
2:Ag:150:TRP:HB2	2:Ag:170:TRP:HD1	1.73	0.44
2:Ag:282:GLU:OE2	2:Ag:284:PRO:CD	2.61	0.44
2:Ag:286:CYS:N	2:Ag:302:TYR:CD1	2.86	0.44
4:AK:47:LYS:HA	4:AK:50:GLN:HG2	2.00	0.44
4:AK:88:GLU:O	4:AK:89:ILE:C	2.58	0.44
8:AS:50:ILE:HG13	8:AS:63:GLU:HG2	1.99	0.44
10:AN:38:TYR:CD2	10:AN:78:LYS:HG3	2.53	0.44
11:AL:97:ARG:HG2	11:AL:98:LYS:HA	2.00	0.44
11:AL:150:GLY:C	11:AL:151:THR:OG1	2.61	0.44
12:AR:17:ILE:O	12:AR:71:ILE:CD1	2.66	0.44
14:AT:111:LYS:HB2	14:AT:126:GLN:CD	2.43	0.44
15:AB:57:ILE:HA	82:CG:264:LYS:HE3	2.00	0.44
16:AA:6:ASP:C	16:AA:8:LEU:N	2.73	0.44
16:AA:77:ILE:HD11	16:AA:122:LEU:HD22	1.99	0.44
20:Aa:10:ARG:HH22	36:B2:1867:U:P	2.40	0.44
20:Aa:108:PRO:O	22:Ac:66:ARG:CD	2.62	0.44
25:Af:104:LYS:HA	25:Af:104:LYS:HD3	1.40	0.44
27:AE:126:VAL:HG22	27:AE:157:ASN:N	2.29	0.44
27:AE:212:ASP:OD2	27:AE:214:ASN:N	2.51	0.44
28:AC:178:HIS:CD2	28:AC:178:HIS:H	2.36	0.44
29:AG:188:LYS:HA	29:AG:191:ARG:HG2	1.99	0.44
30:AF:112:LEU:HD23	30:AF:112:LEU:O	2.18	0.44
30:AF:190:ILE:HG23	30:AF:191:LYS:N	2.33	0.44
32:AW:18:GLU:HG2	32:AW:65:LEU:CD1	2.47	0.44
32:AW:96:SER:OG	32:AW:99:PHE:CD2	2.69	0.44
32:AW:105:THR:O	32:AW:105:THR:CG2	2.66	0.44
35:Ah:149:GLY:O	35:Ah:153:VAL:HG21	2.17	0.44
36:B2:72:C:N3	36:B2:73:C:C6	2.86	0.44
36:B2:210:U:C2'	36:B2:211:G:O5'	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:988:C:O4'	36:B2:988:C:C6	2.70	0.44
36:B2:1620:A:H1'	36:B2:1624:U:OP2	2.17	0.44
38:Cz:12:GLU:HG3	38:Cz:214:GLN:HG2	1.99	0.44
38:Cz:17:VAL:CG2	38:Cz:206:ILE:CG2	2.93	0.44
38:Cz:201:VAL:O	38:Cz:201:VAL:HG12	2.18	0.44
39:Cq:95:LEU:CD2	83:Cs:49:LYS:HZ3	2.30	0.44
39:Cq:95:LEU:CD1	39:Cq:96:THR:N	2.73	0.44
39:Cq:129:GLY:CA	40:CK:1:MET:HB2	2.47	0.44
39:Cq:155:LEU:O	39:Cq:156:SER:CB	2.66	0.44
40:CK:28:LEU:CD2	40:CK:44:ASP:HA	2.48	0.44
41:CO:127:VAL:CG1	52:CS:158:VAL:HG21	2.39	0.44
42:CL:64:VAL:O	42:CL:67:HIS:HD2	2.01	0.44
43:CV:82:ILE:HG22	43:CV:121:VAL:HA	1.99	0.44
44:CM:31:ILE:O	52:CS:145:PHE:CZ	2.71	0.44
46:CN:67:ARG:O	46:CN:68:ARG:CB	2.65	0.44
47:CI:16:PRO:C	47:CI:18:PRO:HD3	2.43	0.44
48:CD:20:PHE:CD2	48:CD:30:TYR:HE2	2.07	0.44
48:CD:113:PHE:CZ	85:A5:1819:G:C4	3.05	0.44
49:CQ:95:VAL:HG23	49:CQ:116:ALA:HB3	1.94	0.44
49:CQ:105:VAL:HG11	49:CQ:110:ARG:CA	2.48	0.44
50:CR:183:GLU:O	50:CR:187:THR:OG1	2.27	0.44
51:CA:44:ILE:HG22	51:CA:87:PHE:CE1	2.53	0.44
53:CT:84:ILE:HG21	62:Cb:24:PRO:HD3	2.00	0.44
53:CT:125:TRP:HE1	53:CT:126:VAL:HB	1.79	0.44
58:CW:13:ILE:HD11	58:CW:32:LEU:CA	2.48	0.44
58:CW:33:ASN:C	58:CW:37:GLU:CD	2.86	0.44
58:CW:110:ARG:NH1	58:CW:110:ARG:HG2	2.31	0.44
60:Cr:126:VAL:HG12	60:Cr:127:LYS:CA	2.36	0.44
61:Ch:78:TYR:HA	61:Ch:84:ARG:NH2	2.32	0.44
63:CB:82:PRO:CD	63:CB:171:LEU:HD21	2.48	0.44
63:CB:92:TYR:CD2	63:CB:99:LEU:HD12	2.35	0.44
64:CF:87:PRO:CG	64:CF:144:TYR:CE1	3.01	0.44
67:Ce:43:ASN:HB3	67:Ce:46:ARG:HB3	1.99	0.44
68:Cf:3:GLY:HA3	81:CE:276:ALA:CB	2.42	0.44
68:Cf:13:GLY:HA2	68:Cf:97:ILE:CD1	2.44	0.44
68:Cf:104:MET:HB2	68:Cf:106:TYR:CE2	2.52	0.44
69:Cg:63:VAL:HG12	69:Cg:63:VAL:O	2.18	0.44
69:Cg:69:LYS:O	69:Cg:73:HIS:ND1	2.51	0.44
74:CC:314:LEU:CD2	74:CC:314:LEU:N	2.34	0.44
74:CC:338:ASN:C	74:CC:339:THR:HG23	2.43	0.44
78:Co:50:GLY:O	78:Co:52:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:CH:110:SER:CA	80:CH:128:MET:HB2	2.48	0.44
81:CE:143:SER:OG	81:CE:144:ILE:HD13	2.18	0.44
82:CG:28:VAL:HG13	82:CG:32:PHE:CE2	2.53	0.44
82:CG:104:PRO:CA	82:CG:105:GLU:CG	2.92	0.44
82:CG:106:THR:HA	82:CG:107:LYS:HE2	2.00	0.44
82:CG:150:LYS:HB2	82:CG:177:MET:HE1	1.86	0.44
85:A5:513:U:H3'	85:A5:514:U:C5'	2.48	0.44
85:A5:2485:U:H3	85:A5:2493:G:H1	1.65	0.44
85:A5:3779:A:C2	85:A5:3816:A:C4	3.06	0.44
1:Az:45:ILE:HG21	1:Az:77:LEU:HA	2.00	0.43
1:Az:56:PHE:CE1	1:Az:455:GLY:HA3	2.27	0.43
1:Az:402:VAL:HG22	1:Az:403:PRO:HG2	1.99	0.43
1:Az:580:ARG:HB2	1:Az:741:MET:HE3	2.00	0.43
1:Az:662:LEU:CG	1:Az:683:PHE:CG	3.01	0.43
1:Az:758:GLY:HA3	1:Az:804:THR:CG2	2.48	0.43
1:Az:766:LYS:CG	1:Az:792:GLU:HB3	2.44	0.43
2:Ag:239:LEU:CD2	2:Ag:250:ALA:HB2	2.48	0.43
4:AK:94:LEU:CD2	4:AK:95:ARG:H	2.30	0.43
5:AO:64:ALA:C	5:AO:66:ARG:N	2.76	0.43
7:AM:49:LEU:HA	7:AM:75:ASN:HB2	1.99	0.43
8:AS:15:VAL:CG1	8:AS:68:ILE:CD1	2.91	0.43
8:AS:48:ALA:HB2	8:AS:70:ILE:HD12	1.98	0.43
8:AS:120:HIS:NE2	13:AP:123:TYR:OH	2.51	0.43
10:AN:7:PRO:CD	10:AN:8:GLY:N	2.78	0.43
10:AN:116:ILE:HA	10:AN:119:GLU:CD	2.43	0.43
13:AP:44:ARG:NE	13:AP:82:ASP:O	2.51	0.43
14:AT:75:MET:C	14:AT:78:ILE:HG22	2.43	0.43
15:AB:87:ILE:HG23	15:AB:101:HIS:CG	2.52	0.43
15:AB:151:ARG:HG3	15:AB:153:THR:N	2.33	0.43
16:AA:57:LYS:HZ3	17:AV:70:LEU:HD21	1.83	0.43
16:AA:58:LEU:CD2	16:AA:58:LEU:O	2.66	0.43
16:AA:138:SER:O	17:AV:30:ALA:CA	2.66	0.43
18:AY:14:THR:HG23	36:B2:841:G:OP2	2.18	0.43
26:AJ:66:LYS:C	26:AJ:71:LEU:HD11	2.43	0.43
27:AE:98:ASN:HD21	27:AE:114:ILE:HD11	1.81	0.43
29:AG:32:MET:HE3	29:AG:100:CYS:C	2.34	0.43
30:AF:103:LEU:HD23	30:AF:178:ILE:HD13	0.53	0.43
30:AF:122:ARG:CB	30:AF:123:GLU:OE1	2.66	0.43
32:AW:90:GLN:HB3	32:AW:102:ILE:HD12	2.00	0.43
33:AI:103:LEU:CD2	33:AI:172:LEU:CD1	2.94	0.43
33:AI:108:PRO:HA	33:AI:111:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:138:ARG:NH1	36:B2:1646:C:H5''	2.22	0.43
36:B2:559:G:C5	36:B2:560:A:C8	3.06	0.43
36:B2:1164:G:H3'	36:B2:1165:G:H21	1.83	0.43
39:Cq:47:LEU:O	39:Cq:48:ARG:C	2.60	0.43
39:Cq:96:THR:HG22	39:Cq:97:GLU:N	2.32	0.43
39:Cq:263:GLU:O	39:Cq:268:PHE:CE2	2.71	0.43
40:CK:40:LYS:N	40:CK:40:LYS:CD	2.74	0.43
41:CO:169:ARG:HH12	41:CO:173:GLN:NE2	2.15	0.43
42:CL:65:ARG:HD3	45:Ca:69:PHE:CG	2.52	0.43
45:Ca:147:VAL:CG1	45:Ca:148:ALA:N	2.80	0.43
46:CN:48:ALA:HA	46:CN:133:ILE:HD11	1.99	0.43
46:CN:160:GLU:HG2	46:CN:161:MET:N	2.33	0.43
48:CD:220:LYS:O	48:CD:224:SER:HB3	2.18	0.43
49:CQ:16:LYS:O	49:CQ:52:PHE:CD2	2.71	0.43
49:CQ:78:LYS:HA	49:CQ:78:LYS:HD3	1.63	0.43
50:CR:71:ARG:HH11	50:CR:71:ARG:CG	2.23	0.43
50:CR:173:ARG:HG3	50:CR:174:GLU:N	2.34	0.43
51:CA:98:ILE:CD1	77:Cp:80:LYS:HE2	2.48	0.43
51:CA:104:VAL:HG23	51:CA:162:ASN:O	2.18	0.43
51:CA:253:GLN:CD	51:CA:255:LYS:NZ	2.76	0.43
52:CS:73:LEU:O	52:CS:75:VAL:N	2.50	0.43
52:CS:75:VAL:O	52:CS:76:LYS:CE	2.42	0.43
53:CT:144:ASN:ND2	53:CT:144:ASN:N	2.61	0.43
53:CT:144:ASN:HA	53:CT:146:LYS:H	1.83	0.43
55:CU:96:LEU:O	55:CU:100:LEU:HB2	2.18	0.43
56:CX:39:LYS:CG	56:CX:40:ILE:H	2.30	0.43
57:CY:111:LEU:CA	57:CY:115:ARG:HD2	2.42	0.43
58:CW:14:TYR:CD2	63:CB:380:GLN:NE2	2.85	0.43
60:Cr:33:LYS:HE3	60:Cr:112:ARG:NE	2.32	0.43
60:Cr:75:THR:HA	60:Cr:76:SER:HB3	1.98	0.43
62:Cb:50:ASN:HB2	62:Cb:54:LEU:CB	2.48	0.43
63:CB:39:LYS:CG	63:CB:40:PRO:HD2	2.47	0.43
63:CB:60:VAL:CG1	63:CB:61:ASP:N	2.80	0.43
63:CB:79:VAL:HG12	63:CB:80:GLU:O	2.17	0.43
63:CB:115:LYS:HE3	63:CB:118:PHE:HB2	1.99	0.43
63:CB:142:GLY:CA	63:CB:147:GLU:CD	2.41	0.43
63:CB:201:LEU:C	63:CB:203:GLN:H	2.25	0.43
63:CB:212:GLY:CA	63:CB:287:ILE:CD1	2.95	0.43
64:CF:226:HIS:HB3	64:CF:229:GLU:CG	2.46	0.43
64:CF:247:MET:C	64:CF:248:ASN:O	2.55	0.43
67:Ce:15:LYS:O	67:Ce:16:ARG:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:Ce:102:ASN:OD1	67:Ce:102:ASN:N	2.43	0.43
74:CC:183:VAL:HG12	74:CC:184:TYR:N	2.33	0.43
74:CC:209:ILE:HD12	74:CC:227:ILE:CD1	2.33	0.43
77:Cp:28:LYS:O	77:Cp:28:LYS:CD	2.65	0.43
79:CJ:95:ARG:O	79:CJ:96:LYS:C	2.60	0.43
79:CJ:95:ARG:HH11	79:CJ:95:ARG:CB	2.31	0.43
80:CH:109:GLY:CA	80:CH:128:MET:CG	2.68	0.43
81:CE:157:HIS:CG	81:CE:184:VAL:HG22	2.53	0.43
85:A5:147:A:H2'	85:A5:148:C:C6	2.52	0.43
85:A5:1245:C:C5	85:A5:1269:G:O6	2.71	0.43
85:A5:1343:A:H61	85:A5:1513:U:H3	1.66	0.43
85:A5:2390:G:O6	85:A5:2825:A:C2	2.71	0.43
85:A5:2574:G:N2	85:A5:2764:A:N6	2.65	0.43
85:A5:2765:A:H3'	85:A5:2766:A:H5''	1.98	0.43
85:A5:4655:A:N6	85:A5:4658:G:C5	2.86	0.43
85:A5:4991:U:H2'	85:A5:4992:G:H8	1.83	0.43
85:A5:5001:U:H2'	85:A5:5002:U:H5''	2.00	0.43
1:Az:10:ARG:HD2	1:Az:10:ARG:HA	1.78	0.43
1:Az:12:ILE:HG21	1:Az:99:LEU:HB2	1.99	0.43
1:Az:60:ARG:N	1:Az:63:GLU:CB	2.82	0.43
1:Az:161:ASP:O	1:Az:165:LEU:HD23	2.18	0.43
1:Az:447:ILE:HG21	1:Az:472:LEU:HD22	2.00	0.43
1:Az:503:PRO:HB3	1:Az:533:MET:SD	2.58	0.43
1:Az:661:ILE:CG2	1:Az:662:LEU:N	2.81	0.43
2:Ag:121:VAL:CG1	2:Ag:122:SER:N	2.80	0.43
2:Ag:212:LYS:CG	2:Ag:235:ILE:HD12	2.44	0.43
2:Ag:293:ALA:HB3	2:Ag:294:ASP:CG	2.43	0.43
4:AK:55:ARG:H	4:AK:55:ARG:HG2	1.52	0.43
6:AX:28:LYS:HG2	6:AX:32:LEU:HD12	2.00	0.43
8:AS:23:ARG:O	8:AS:55:ARG:CD	2.66	0.43
8:AS:39:ARG:O	8:AS:43:VAL:HG23	2.18	0.43
8:AS:93:GLY:HA3	13:AP:18:ARG:HB3	2.00	0.43
11:AL:117:PHE:HD2	11:AL:145:VAL:HG23	1.84	0.43
13:AP:59:ARG:HG2	13:AP:76:VAL:HG22	2.00	0.43
13:AP:75:VAL:CG1	13:AP:76:VAL:H	2.31	0.43
14:AT:97:LYS:HZ3	36:B2:1569:A:P	2.41	0.43
15:AB:131:ASP:CG	15:AB:180:ASP:CB	2.88	0.43
15:AB:156:ALA:CB	15:AB:160:GLN:OE1	2.65	0.43
16:AA:57:LYS:HD3	16:AA:159:ILE:HD11	1.99	0.43
17:AV:55:ILE:CD1	17:AV:65:SER:CA	2.86	0.43
18:AY:10:ARG:CG	18:AY:24:VAL:CB	2.85	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Aa:45:VAL:O	20:Aa:46:GLU:CG	2.66	0.43
21:Ab:36:LYS:HE3	21:Ab:43:ILE:CD1	2.45	0.43
23:AD:1:MET:O	23:AD:2:ALA:C	2.62	0.43
23:AD:134:CYS:O	23:AD:153:VAL:HG13	2.18	0.43
23:AD:162:ASP:OD2	23:AD:166:TYR:CE2	2.72	0.43
24:Ae:40:ARG:C	24:Ae:45:VAL:HG23	2.17	0.43
28:AC:207:ALA:C	28:AC:210:PRO:CD	2.80	0.43
29:AG:59:GLN:N	36:B2:157:U:H4'	2.32	0.43
29:AG:77:LEU:HD11	29:AG:95:LYS:CB	2.35	0.43
29:AG:147:LEU:O	29:AG:151:ASP:CG	2.59	0.43
31:AH:64:VAL:CG1	31:AH:68:GLN:HB2	2.48	0.43
31:AH:107:LYS:HD2	36:B2:798:G:C2	2.54	0.43
31:AH:109:ARG:NH2	31:AH:111:LYS:HD2	2.33	0.43
31:AH:194:LEU:HD12	31:AH:194:LEU:H	1.84	0.43
34:AQ:124:PRO:HG2	34:AQ:125:ARG:HG3	2.00	0.43
35:Ah:160:ARG:H	35:Ah:161:PRO:HD3	1.79	0.43
36:B2:1413:G:H2'	36:B2:1414:A:O4'	2.17	0.43
36:B2:1714:U:H2'	36:B2:1715:A:C8	2.53	0.43
38:Cz:31:THR:HG22	38:Cz:32:VAL:N	2.34	0.43
38:Cz:193:LEU:HD22	38:Cz:193:LEU:N	2.33	0.43
39:Cq:36:GLY:O	39:Cq:38:LYS:CA	2.61	0.43
39:Cq:63:LYS:HD3	39:Cq:78:LEU:HD13	1.99	0.43
40:CK:9:GLU:O	40:CK:10:ILE:HG12	2.17	0.43
40:CK:111:ASN:CG	40:CK:130:LYS:HE2	2.43	0.43
40:CK:134:GLY:O	40:CK:137:GLN:HG3	2.17	0.43
41:CO:21:ALA:HA	41:CO:87:MET:SD	2.58	0.43
41:CO:130:LYS:HE3	41:CO:133:ARG:NE	2.33	0.43
41:CO:177:LEU:CG	44:CM:130:LEU:CD2	2.96	0.43
42:CL:110:LEU:HD22	70:Ci:20:ASN:ND2	2.33	0.43
44:CM:77:TRP:O	44:CM:82:ILE:HD13	2.17	0.43
44:CM:81:ASP:HB3	44:CM:84:THR:HG23	1.99	0.43
46:CN:17:ASP:CB	82:CG:237:TRP:HH2	2.25	0.43
46:CN:47:LYS:NZ	46:CN:51:LEU:HD11	2.31	0.43
48:CD:113:PHE:CZ	85:A5:1819:G:N3	2.86	0.43
51:CA:84:THR:CG2	77:Cp:63:THR:HB	2.48	0.43
51:CA:118:GLU:HG2	51:CA:125:LYS:CE	2.45	0.43
52:CS:9:GLU:O	52:CS:66:GLN:HA	2.18	0.43
52:CS:71:SER:HB3	52:CS:74:ARG:N	2.33	0.43
52:CS:85:ASP:OD1	52:CS:89:GLY:O	2.36	0.43
52:CS:153:PRO:O	52:CS:155:PRO:HG3	2.18	0.43
53:CT:30:TYR:OH	53:CT:94:GLU:CD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:CT:81:LYS:C	62:Cb:16:TRP:CH2	2.91	0.43
56:CX:117:TYR:C	56:CX:119:ILE:N	2.73	0.43
60:Cr:79:ARG:HG2	60:Cr:79:ARG:H	1.44	0.43
60:Cr:86:ALA:HB3	60:Cr:93:ILE:HD13	1.91	0.43
63:CB:86:VAL:HG13	63:CB:162:VAL:HG11	1.99	0.43
63:CB:117:ARG:HA	63:CB:177:LYS:CG	2.48	0.43
63:CB:161:ARG:HG2	63:CB:184:GLN:HA	2.00	0.43
63:CB:213:GLN:HE21	63:CB:286:LYS:HA	1.83	0.43
63:CB:316:PRO:HD3	63:CB:320:PHE:CZ	2.52	0.43
65:Cc:58:SER:CA	65:Cc:61:GLU:HG3	2.48	0.43
66:Cd:80:VAL:HG12	66:Cd:81:PRO:O	2.18	0.43
67:Ce:28:TYR:CD2	67:Ce:28:TYR:N	2.86	0.43
69:Cg:43:LYS:CA	69:Cg:52:ARG:HA	2.33	0.43
70:Ci:60:LEU:HA	70:Ci:64:SER:OG	2.17	0.43
74:CC:128:LEU:HD23	74:CC:240:LEU:CD1	2.47	0.43
74:CC:133:LEU:HA	74:CC:134:PRO:HD3	1.59	0.43
78:Co:14:LYS:HB3	78:Co:77:CYS:HB2	2.01	0.43
78:Co:68:LEU:HG	78:Co:83:LEU:CD1	2.48	0.43
79:CJ:71:HIS:O	79:CJ:72:CYS:SG	2.72	0.43
79:CJ:139:PHE:O	79:CJ:140:SER:C	2.60	0.43
80:CH:29:GLY:N	80:CH:84:VAL:CG2	2.81	0.43
81:CE:126:LEU:O	81:CE:127:SER:HB2	2.19	0.43
82:CG:36:PRO:HB2	82:CG:37:LYS:H	1.64	0.43
82:CG:86:ALA:CB	82:CG:183:ILE:HG21	2.45	0.43
83:Cs:22:THR:O	83:Cs:27:LYS:CD	2.56	0.43
83:Cs:43:TRP:C	83:Cs:47:PHE:CE2	2.96	0.43
85:A5:4767:C:H4'	85:A5:4873:G:O6	2.18	0.43
87:A8:111:U:H4'	87:A8:112:G:H5'	2.00	0.43
1:Az:25:ILE:CG2	1:Az:142:VAL:HB	2.48	0.43
1:Az:108:HIS:CB	1:Az:552:LEU:CD2	2.96	0.43
1:Az:158:ASN:CG	1:Az:159:LYS:N	2.77	0.43
1:Az:516:ASP:OD2	1:Az:568:ILE:HG23	2.17	0.43
2:Ag:258:ILE:CD1	2:Ag:267:VAL:CG1	2.95	0.43
3:AU:50:VAL:CG2	3:AU:51:LYS:N	2.79	0.43
5:AO:31:CYS:CB	5:AO:95:ILE:CG1	2.80	0.43
5:AO:129:ILE:N	20:Aa:62:TYR:OH	2.50	0.43
6:AX:67:ARG:O	6:AX:84:PHE:HE1	2.02	0.43
7:AM:19:GLN:CG	7:AM:88:TRP:CD1	2.97	0.43
10:AN:14:SER:O	10:AN:14:SER:OG	2.31	0.43
10:AN:21:SER:OG	10:AN:22:VAL:N	2.50	0.43
12:AR:88:VAL:HG21	16:AA:199:PRO:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AR:101:ASP:HB3	16:AA:48:ILE:HD12	2.00	0.43
12:AR:105:MET:HA	16:AA:39:TYR:CE2	2.53	0.43
14:AT:9:VAL:HG13	14:AT:13:GLU:OE2	2.18	0.43
14:AT:74:SER:OG	36:B2:1587:G:N2	2.50	0.43
16:AA:103:PHE:O	16:AA:104:THR:HB	2.18	0.43
17:AV:39:VAL:C	17:AV:41:LYS:N	2.76	0.43
18:AY:38:THR:O	18:AY:42:GLU:HG3	2.18	0.43
20:Aa:49:ALA:O	20:Aa:50:VAL:C	2.61	0.43
20:Aa:96:THR:HA	20:Aa:97:PRO:HD2	1.85	0.43
23:AD:43:PRO:O	23:AD:44:THR:CB	2.65	0.43
23:AD:74:GLN:HB2	23:AD:84:VAL:HG11	1.98	0.43
23:AD:98:ALA:CA	23:AD:188:ILE:HD12	2.48	0.43
23:AD:117:ARG:HA	35:Ah:186:ASP:OD2	2.18	0.43
27:AE:171:ASP:CG	27:AE:172:PHE:CD2	2.96	0.43
29:AG:131:ARG:HD2	36:B2:168:C:H4'	2.01	0.43
29:AG:145:PHE:O	29:AG:146:ASN:O	2.36	0.43
31:AH:121:THR:CG2	31:AH:124:ALA:CB	2.95	0.43
31:AH:126:HIS:CE1	31:AH:181:THR:HG22	2.53	0.43
32:AW:27:ILE:HG12	32:AW:61:ILE:HB	1.96	0.43
33:AI:112:TRP:CH2	33:AI:117:TYR:CZ	3.05	0.43
34:AQ:58:LEU:HD21	34:AQ:111:ILE:CD1	2.28	0.43
36:B2:181:A:C4'	36:B2:182:C:H5'	2.40	0.43
36:B2:532:C:H4'	36:B2:533:A:OP1	2.18	0.43
36:B2:1050:A:C5	36:B2:1069:U:C2	3.06	0.43
36:B2:1213:C:C2'	36:B2:1214:A:H5'	2.48	0.43
36:B2:1415:C:H2'	36:B2:1416:C:H5'	1.99	0.43
36:B2:1602:U:C2'	36:B2:1603:G:H5'	2.48	0.43
38:Cz:36:ILE:HD11	38:Cz:201:VAL:HA	2.01	0.43
38:Cz:41:TYR:CD1	38:Cz:163:LEU:HD23	2.53	0.43
40:CK:102:GLY:HA3	40:CK:139:VAL:CA	2.30	0.43
41:CO:182:GLU:HG2	44:CM:123:ILE:CD1	2.49	0.43
41:CO:201:LEU:HD13	41:CO:201:LEU:HA	1.80	0.43
44:CM:7:VAL:HG12	44:CM:27:ILE:HD12	1.99	0.43
44:CM:34:ASN:O	44:CM:35:ARG:HB3	2.18	0.43
44:CM:82:ILE:O	44:CM:83:ASN:ND2	2.52	0.43
47:CI:125:THR:O	47:CI:126:VAL:CG2	2.67	0.43
48:CD:252:VAL:CG1	48:CD:254:GLU:OE1	2.66	0.43
49:CQ:4:ASP:HB2	64:CF:98:ILE:HG21	2.00	0.43
51:CA:43:GLY:CA	51:CA:63:PHE:CE1	3.01	0.43
51:CA:174:ARG:O	77:Cp:69:TRP:CH2	2.54	0.43
52:CS:11:LYS:HG3	52:CS:29:ARG:CD	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:79:PHE:HE2	56:CX:99:ILE:HG22	1.82	0.43
58:CW:6:CYS:SG	58:CW:13:ILE:HG13	2.57	0.43
59:CZ:11:VAL:HG12	59:CZ:12:LEU:N	2.34	0.43
59:CZ:14:LEU:HB2	59:CZ:79:HIS:O	2.16	0.43
59:CZ:76:ASN:C	59:CZ:78:ASN:N	2.73	0.43
60:Cr:76:SER:OG	60:Cr:77:TYR:N	2.52	0.43
60:Cr:108:MET:HE1	81:CE:115:TYR:CD2	2.53	0.43
66:Cd:98:SER:O	66:Cd:100:ASN:N	2.51	0.43
74:CC:239:LYS:HB3	74:CC:248:ARG:NH1	2.33	0.43
75:Cm:104:HIS:CB	75:Cm:105:PRO:HD2	2.42	0.43
81:CE:111:LYS:HB2	81:CE:113:PRO:CD	2.46	0.43
81:CE:220:LYS:O	85:A5:4939:C:C4	2.72	0.43
82:CG:97:LYS:HA	82:CG:97:LYS:HD2	1.50	0.43
82:CG:265:LEU:CD2	82:CG:265:LEU:N	2.81	0.43
83:Cs:21:VAL:CG1	83:Cs:27:LYS:NZ	2.77	0.43
83:Ct:17:HIS:HE2	83:Ct:23:VAL:HG21	1.70	0.43
83:Ct:19:ASP:O	83:Ct:20:GLU:HB2	2.17	0.43
85:A5:451:C:C5	85:A5:1294:A:C2	3.05	0.43
85:A5:2098:G:N3	85:A5:2098:G:H2'	2.32	0.43
87:A8:127:U:C2'	87:A8:128:C:O4'	2.66	0.43
1:Az:16:LYS:HG2	1:Az:467:GLY:HA3	2.00	0.43
1:Az:19:ILE:CG2	1:Az:20:ARG:N	2.81	0.43
1:Az:228:PHE:CG	1:Az:293:ILE:HG12	2.53	0.43
1:Az:379:ASP:OD2	1:Az:381:ALA:HB3	2.17	0.43
1:Az:518:PRO:HG2	6:AX:75:ILE:HD11	2.00	0.43
1:Az:742:GLU:N	1:Az:820:LEU:HG	2.33	0.43
2:Ag:5:MET:CE	2:Ag:312:VAL:CB	2.96	0.43
5:AO:138:ASP:OD1	5:AO:138:ASP:O	2.36	0.43
6:AX:40:PRO:CB	6:AX:81:ILE:CD1	2.87	0.43
7:AM:71:GLU:N	7:AM:71:GLU:OE1	2.52	0.43
9:Ad:30:LEU:HD22	9:Ad:31:ILE:N	2.33	0.43
10:AN:23:PRO:O	10:AN:24:THR:CB	2.66	0.43
10:AN:38:TYR:CE1	10:AN:78:LYS:CD	3.01	0.43
10:AN:140:LYS:HG2	10:AN:141:TYR:N	2.32	0.43
12:AR:104:GLU:OE2	12:AR:107:LYS:HD2	2.18	0.43
14:AT:85:ASN:OD1	14:AT:91:HIS:NE2	2.51	0.43
16:AA:9:GLN:CB	16:AA:10:MET:SD	2.91	0.43
18:AY:114:MET:CE	18:AY:121:ALA:O	2.65	0.43
23:AD:8:LYS:O	23:AD:12:VAL:HG23	2.18	0.43
23:AD:137:VAL:HB	23:AD:185:LYS:HB2	1.99	0.43
23:AD:141:LYS:NZ	23:AD:179:GLN:NE2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:177:ASN:HA	26:AJ:180:LYS:CB	2.44	0.43
28:AC:204:ILE:HG21	28:AC:211:LYS:HA	1.99	0.43
29:AG:147:LEU:O	29:AG:148:SER:CB	2.66	0.43
29:AG:192:ILE:HG13	29:AG:193:ALA:H	1.82	0.43
31:AH:38:ALA:H	31:AH:41:ARG:HG2	1.82	0.43
34:AQ:106:LYS:HD3	34:AQ:106:LYS:HA	1.90	0.43
38:Cz:39:LYS:HA	38:Cz:39:LYS:HD3	1.76	0.43
38:Cz:47:LYS:HB3	38:Cz:195:LYS:HD2	2.00	0.43
38:Cz:144:MET:CG	38:Cz:145:VAL:H	2.30	0.43
38:Cz:181:TYR:O	38:Cz:185:LEU:HG	2.19	0.43
39:Cq:129:GLY:HA3	40:CK:1:MET:HB2	2.00	0.43
39:Cq:138:PHE:HE1	39:Cq:178:LEU:HD21	1.84	0.43
39:Cq:248:VAL:CA	84:Cv:8:LEU:HD11	2.39	0.43
42:CL:21:ARG:HG2	46:CN:196:ASN:C	2.36	0.43
42:CL:129:ARG:NH1	61:Ch:115:PRO:HG3	2.34	0.43
42:CL:161:TYR:O	42:CL:162:LYS:HG3	2.17	0.43
43:CV:29:ALA:O	43:CV:118:THR:HG23	2.18	0.43
43:CV:85:ARG:NE	43:CV:99:GLU:O	2.48	0.43
44:CM:17:PHE:CE2	85:A5:1921:C:H3'	2.53	0.43
44:CM:117:LYS:HE3	85:A5:4928:C:H5'	1.99	0.43
46:CN:7:ILE:CG2	46:CN:46:ASP:OD2	2.62	0.43
47:CI:91:LEU:HD11	47:CI:135:ILE:CA	2.47	0.43
47:CI:156:LYS:CG	47:CI:163:GLN:CG	2.95	0.43
48:CD:51:MET:HE2	48:CD:144:CYS:SG	2.59	0.43
49:CQ:138:LEU:C	49:CQ:139:LEU:CG	2.85	0.43
52:CS:78:PHE:CE1	52:CS:131:GLU:N	2.86	0.43
53:CT:4:THR:HB	53:CT:5:LYS:H	1.20	0.43
54:CP:26:PHE:CZ	54:CP:63:TYR:CE1	3.06	0.43
58:CW:35:LYS:HE2	58:CW:51:TRP:CZ2	2.53	0.43
58:CW:105:ARG:O	58:CW:106:GLU:C	2.60	0.43
63:CB:220:ILE:HG12	63:CB:278:THR:HG23	2.00	0.43
66:Cd:89:SER:OG	66:Cd:105:LEU:HD11	2.19	0.43
68:Cf:4:ARG:HB3	81:CE:277:LEU:HB2	1.99	0.43
68:Cf:10:ILE:CA	68:Cf:101:ILE:HD11	2.49	0.43
68:Cf:76:ARG:HH21	68:Cf:85:ARG:NH1	2.17	0.43
69:Cg:81:SER:OG	69:Cg:82:MET:N	2.50	0.43
70:Ci:9:VAL:HG13	70:Ci:10:GLY:H	1.82	0.43
70:Ci:89:GLU:O	70:Ci:92:ASN:HB2	2.18	0.43
70:Ci:94:LEU:HD11	70:Ci:98:ARG:HH21	1.83	0.43
74:CC:33:ARG:O	74:CC:34:PRO:C	2.59	0.43
74:CC:41:HIS:CD2	74:CC:238:LEU:HD23	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:46:LYS:O	74:CC:47:ASN:C	2.49	0.43
74:CC:72:ALA:O	74:CC:73:VAL:CG2	2.67	0.43
74:CC:217:ILE:HG13	74:CC:221:PHE:CZ	2.53	0.43
81:CE:201:ILE:HG23	81:CE:201:ILE:O	2.17	0.43
81:CE:207:LYS:H	81:CE:207:LYS:HG2	1.63	0.43
81:CE:281:ILE:C	81:CE:282:TYR:HD2	2.27	0.43
82:CG:55:VAL:O	82:CG:57:TRP:CD2	2.72	0.43
85:A5:17:A:H61	87:A8:140:C:H42	1.66	0.43
85:A5:1752:G:C6	85:A5:1753:G:C5	3.06	0.43
85:A5:2415:U:H2'	85:A5:2416:G:C8	2.53	0.43
85:A5:4053:A:H2'	85:A5:4054:C:C6	2.53	0.43
85:A5:4942:C:H5''	85:A5:4943:A:OP1	2.18	0.43
1:Az:283:LYS:HA	1:Az:284:LYS:HZ3	1.81	0.43
1:Az:343:TRP:O	1:Az:344:LEU:HD23	2.17	0.43
1:Az:389:ASP:HA	1:Az:390:PRO:HD2	1.87	0.43
1:Az:741:MET:HE2	1:Az:819:ILE:HG22	2.00	0.43
2:Ag:87:LEU:CG	2:Ag:101:PHE:HB2	2.48	0.43
4:AK:1:MET:HG2	4:AK:2:LEU:HB3	2.01	0.43
7:AM:31:LEU:HG	7:AM:89:VAL:HG13	2.00	0.43
7:AM:89:VAL:CG1	7:AM:90:GLY:N	2.80	0.43
8:AS:85:ASN:OD1	8:AS:86:ARG:N	2.51	0.43
10:AN:125:LEU:HD22	10:AN:125:LEU:O	2.19	0.43
11:AL:82:MET:SD	11:AL:85:THR:HG23	2.59	0.43
12:AR:100:PRO:C	12:AR:103:LYS:N	2.60	0.43
12:AR:104:GLU:CD	12:AR:107:LYS:HD2	2.44	0.43
13:AP:44:ARG:HD3	36:B2:1620:A:OP1	2.18	0.43
16:AA:90:PHE:HD1	16:AA:179:ALA:HB2	1.83	0.43
18:AY:97:TYR:CD1	18:AY:98:GLU:N	2.79	0.43
19:AZ:53:ALA:O	19:AZ:57:LYS:HG3	2.18	0.43
19:AZ:67:LEU:HD23	30:AF:171:GLU:OE2	2.19	0.43
23:AD:53:THR:CG2	23:AD:91:VAL:CG2	2.95	0.43
23:AD:99:ILE:HG13	23:AD:100:ALA:N	2.33	0.43
24:Ae:41:ARG:O	24:Ae:45:VAL:HG22	2.14	0.43
26:AJ:136:ARG:HH12	26:AJ:161:LEU:HD12	1.82	0.43
27:AE:98:ASN:CG	27:AE:119:ALA:CB	2.85	0.43
29:AG:157:VAL:CG1	29:AG:159:ARG:HG3	2.35	0.43
29:AG:227:GLN:O	29:AG:230:LYS:HG3	2.18	0.43
31:AH:37:LYS:HZ3	31:AH:41:ARG:CG	2.30	0.43
31:AH:172:THR:CG2	31:AH:173:PHE:N	2.81	0.43
32:AW:80:ASP:OD2	36:B2:803:C:H4'	2.18	0.43
34:AQ:9:SER:HB2	34:AQ:26:LYS:CG	2.10	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:AQ:43:GLU:HA	34:AQ:44:PRO:C	2.41	0.43
34:AQ:57:LEU:HD13	34:AQ:115:TYR:CD2	2.50	0.43
34:AQ:76:GLY:C	34:AQ:80:GLN:HG3	2.35	0.43
34:AQ:93:VAL:CG1	34:AQ:105:LYS:CD	2.52	0.43
34:AQ:130:LYS:HG2	36:B2:1669:G:C5'	2.48	0.43
36:B2:795:A:H2'	36:B2:796:G:C8	2.54	0.43
38:Cz:29:LEU:CD2	38:Cz:172:VAL:HG12	2.48	0.43
39:Cq:233:THR:O	84:Cu:1:MET:SD	2.77	0.43
40:CK:86:LYS:C	40:CK:104:ILE:CG2	2.90	0.43
40:CK:123:ARG:CZ	40:CK:129:ILE:HD12	2.46	0.43
41:CO:41:ILE:HG23	41:CO:138:LEU:HB2	1.22	0.43
41:CO:121:PRO:N	41:CO:124:LEU:HD13	2.31	0.43
41:CO:122:ALA:HA	52:CS:161:ARG:HG3	2.00	0.43
41:CO:131:PRO:C	41:CO:132:THR:CG2	2.65	0.43
42:CL:160:VAL:CG2	42:CL:161:TYR:N	2.80	0.43
44:CM:13:ALA:CB	44:CM:55:MET:CE	2.92	0.43
46:CN:83:LYS:HB3	46:CN:84:PRO:CD	2.48	0.43
47:CI:76:MET:HB2	47:CI:85:PHE:CE2	2.44	0.43
47:CI:185:VAL:HG22	47:CI:190:LEU:CB	2.48	0.43
48:CD:32:ALA:O	48:CD:36:LEU:HG	2.18	0.43
48:CD:273:LEU:HD13	48:CD:277:LYS:HZ1	1.79	0.43
49:CQ:6:ARG:NH2	64:CF:110:GLN:HA	2.33	0.43
49:CQ:6:ARG:NH2	64:CF:114:LEU:N	2.65	0.43
49:CQ:94:GLU:OE2	49:CQ:94:GLU:CA	2.54	0.43
49:CQ:187:LYS:HZ3	49:CQ:188:ASN:HD22	1.55	0.43
51:CA:143:THR:OG1	51:CA:144:LYS:HG3	2.18	0.43
51:CA:250:LYS:HD3	51:CA:251:THR:N	2.31	0.43
54:CP:71:ALA:HB2	85:A5:4982:A:P	2.58	0.43
55:CU:52:LYS:HB3	55:CU:53:ALA:H	1.45	0.43
56:CX:81:LEU:HD11	56:CX:99:ILE:HG13	1.99	0.43
60:Cr:84:LYS:HA	60:Cr:84:LYS:HD3	1.56	0.43
61:Ch:73:TYR:CZ	61:Ch:80:PRO:HD3	2.49	0.43
63:CB:246:ARG:NH2	85:A5:4525:C:OP1	2.52	0.43
63:CB:288:GLY:HA3	63:CB:330:PHE:CD1	2.51	0.43
63:CB:298:LEU:C	63:CB:300:LYS:CG	2.78	0.43
64:CF:24:ASN:C	64:CF:26:ALA:H	2.26	0.43
65:Cc:37:MET:HE1	65:Cc:97:ILE:HG13	1.97	0.43
66:Cd:14:ARG:O	66:Cd:15:SER:HB2	2.19	0.43
67:Ce:35:TRP:NE1	67:Ce:56:PRO:CD	2.69	0.43
74:CC:5:ARG:NH2	74:CC:26:ALA:CA	2.82	0.43
74:CC:285:ILE:O	74:CC:286:ASN:ND2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:76:ASN:CA	78:Co:78:ARG:CB	2.93	0.43
79:CJ:90:ARG:HH22	79:CJ:108:GLY:CA	2.02	0.43
81:CE:102:GLY:C	81:CE:103:GLY:O	2.62	0.43
82:CG:71:TYR:CZ	82:CG:72:LYS:HG2	2.53	0.43
82:CG:143:VAL:CG1	82:CG:146:LEU:HD21	2.48	0.43
82:CG:211:ASP:O	82:CG:214:ALA:N	2.51	0.43
85:A5:980:U:H2'	85:A5:981:C:O4'	2.18	0.43
85:A5:4602:A:C8	85:A5:4603:C:C5	3.06	0.43
85:A5:4881:U:H3'	85:A5:4882:U:O4'	2.18	0.43
87:A8:128:C:H2'	87:A8:129:C:C5'	2.49	0.43
1:Az:22:MET:O	1:Az:103:ILE:HG13	2.18	0.43
1:Az:223:PHE:CD1	1:Az:223:PHE:C	2.97	0.43
1:Az:243:GLN:O	1:Az:249:ARG:CZ	2.66	0.43
1:Az:388:CYS:O	1:Az:390:PRO:HD3	2.18	0.43
1:Az:484:THR:C	1:Az:485:ILE:HD12	2.44	0.43
4:AK:89:ILE:CG2	4:AK:90:VAL:H	2.30	0.43
5:AO:97:LEU:CD1	5:AO:112:ALA:HB1	2.45	0.43
5:AO:147:ARG:HH21	5:AO:150:ARG:HH21	1.65	0.43
7:AM:26:LEU:HD11	7:AM:90:GLY:N	2.33	0.43
7:AM:27:ILE:CG2	7:AM:28:HIS:N	2.81	0.43
8:AS:41:ALA:O	8:AS:45:LEU:HG	2.19	0.43
8:AS:58:GLU:O	8:AS:59:LEU:HB2	2.15	0.43
10:AN:50:ILE:O	10:AN:54:LEU:CG	2.64	0.43
12:AR:67:ARG:NH2	36:B2:1464:C:H1'	2.33	0.43
12:AR:85:VAL:HG21	16:AA:201:LEU:HD22	1.99	0.43
13:AP:62:LYS:CA	13:AP:65:LYS:HE2	2.48	0.43
13:AP:65:LYS:CG	13:AP:66:GLU:N	2.79	0.43
14:AT:28:LEU:C	14:AT:29:LYS:HG2	2.44	0.43
15:AB:48:LEU:O	15:AB:48:LEU:HD13	2.18	0.43
16:AA:49:ILE:CG2	16:AA:50:ASN:N	2.81	0.43
23:AD:223:ILE:CG2	23:AD:224:SER:N	2.80	0.43
26:AJ:35:TYR:CD2	26:AJ:35:TYR:N	2.85	0.43
29:AG:11:GLY:C	58:CW:80:ARG:HH12	2.27	0.43
29:AG:64:LYS:HD3	29:AG:65:GLN:N	2.32	0.43
30:AF:112:LEU:O	30:AF:116:ILE:CG1	2.67	0.43
30:AF:124:ASP:O	30:AF:200:ALA:CB	2.67	0.43
30:AF:192:LYS:CD	30:AF:192:LYS:C	2.90	0.43
31:AH:118:ARG:C	31:AH:120:ARG:N	2.75	0.43
34:AQ:126:ARG:CG	34:AQ:127:CYS:N	2.81	0.43
36:B2:148:U:C5	36:B2:169:U:C4	3.06	0.43
36:B2:1822:A:C2	36:B2:1823:A:C6	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:24:LYS:HG2	38:Cz:24:LYS:O	2.16	0.43
38:Cz:95:LYS:CG	38:Cz:98:LYS:CE	2.96	0.43
39:Cq:27:CYS:CB	39:Cq:193:PHE:HD2	2.31	0.43
39:Cq:77:LYS:HA	39:Cq:77:LYS:HD3	1.59	0.43
39:Cq:91:THR:C	39:Cq:93:GLU:H	2.25	0.43
39:Cq:264:LYS:CA	39:Cq:268:PHE:HE2	2.32	0.43
40:CK:48:LYS:C	40:CK:52:ASP:OD2	2.61	0.43
40:CK:65:GLN:HA	40:CK:69:ALA:O	2.19	0.43
45:Ca:62:HIS:ND1	85:A5:315:G:N7	2.66	0.43
45:Ca:84:GLU:HB2	45:Ca:87:ARG:NE	2.31	0.43
46:CN:11:TRP:CD1	46:CN:44:ARG:HH22	2.25	0.43
47:CI:57:TYR:HD1	47:CI:130:HIS:CE1	2.37	0.43
48:CD:22:ARG:HG3	48:CD:22:ARG:HH11	1.84	0.43
48:CD:94:ASN:OD1	48:CD:97:ALA:N	2.48	0.43
48:CD:99:TYR:CG	48:CD:199:ILE:HG23	2.54	0.43
49:CQ:167:VAL:HG22	49:CQ:175:GLU:CD	2.43	0.43
51:CA:51:ASP:HB3	51:CA:54:ARG:HD2	1.99	0.43
51:CA:229:ALA:HA	51:CA:230:PRO:HD3	1.49	0.43
59:CZ:23:ALA:HB1	59:CZ:43:VAL:HB	2.00	0.43
60:Cr:16:PHE:HB3	60:Cr:27:THR:OG1	2.18	0.43
60:Cr:46:ARG:CD	60:Cr:69:GLY:HA2	2.48	0.43
60:Cr:50:GLY:HA3	60:Cr:64:ILE:HG22	1.83	0.43
62:Cb:51:LYS:HA	62:Cb:51:LYS:HD3	1.79	0.43
63:CB:110:ILE:HD11	63:CB:114:CYS:SG	2.59	0.43
63:CB:179:HIS:CE1	63:CB:344:VAL:CG2	3.01	0.43
64:CF:27:GLU:O	64:CF:28:LEU:C	2.56	0.43
65:Cc:21:VAL:HG22	65:Cc:99:PRO:CB	2.49	0.43
65:Cc:48:LEU:HD22	65:Cc:60:ILE:HD12	2.00	0.43
66:Cd:45:ALA:O	66:Cd:49:ILE:HG13	2.18	0.43
71:Cj:21:ARG:HD2	71:Cj:37:CYS:SG	2.58	0.43
71:Cj:64:MET:HE3	71:Cj:64:MET:HB3	1.74	0.43
71:Cj:68:LYS:HB3	71:Cj:68:LYS:HE2	1.74	0.43
71:Cj:87:LYS:C	71:Cj:87:LYS:CD	2.83	0.43
74:CC:103:ALA:CB	85:A5:1339:U:H1'	2.49	0.43
74:CC:105:THR:C	74:CC:106:LYS:CD	2.90	0.43
74:CC:285:ILE:O	74:CC:285:ILE:HG23	2.19	0.43
75:Cm:90:ASN:HD22	80:CH:176:LEU:HD22	1.79	0.43
77:Cp:27:LYS:CE	77:Cp:28:LYS:N	2.79	0.43
79:CJ:163:MET:CE	79:CJ:174:ILE:HD11	2.18	0.43
80:CH:25:VAL:CG2	80:CH:36:ARG:HB3	2.49	0.43
81:CE:223:ARG:CD	81:CE:223:ARG:N	2.29	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:27:VAL:CG1	82:CG:31:LEU:HD11	2.49	0.43
82:CG:70:LEU:O	82:CG:70:LEU:HD13	2.18	0.43
82:CG:80:ILE:CG2	82:CG:81:ASN:N	2.65	0.43
82:CG:128:VAL:O	82:CG:128:VAL:CG1	2.63	0.43
82:CG:234:ARG:O	82:CG:234:ARG:HG3	2.18	0.43
85:A5:415:G:OP1	85:A5:417:G:O6	2.36	0.43
85:A5:1956:A:C2	85:A5:2028:C:C2	3.07	0.43
85:A5:1964:A:H1'	85:A5:4694:G:OP1	2.19	0.43
85:A5:2485:U:H2'	85:A5:2486:G:C8	2.53	0.43
86:A7:44:C:H2'	86:A7:45:U:H5'	2.00	0.43
1:Az:60:ARG:N	1:Az:63:GLU:HB3	2.33	0.43
1:Az:147:ILE:CD1	1:Az:193:GLY:N	2.81	0.43
1:Az:325:SER:O	1:Az:327:ASP:CA	2.61	0.43
1:Az:540:GLU:OE1	1:Az:540:GLU:C	2.62	0.43
1:Az:602:LEU:HD23	1:Az:603:TYR:C	2.43	0.43
1:Az:645:GLU:OE1	1:Az:665:ILE:CD1	2.67	0.43
1:Az:756:VAL:HG13	1:Az:784:VAL:CG2	2.39	0.43
3:AU:49:LYS:HB2	3:AU:49:LYS:HE2	1.57	0.43
3:AU:82:MET:CE	9:Ad:51:GLY:CA	2.95	0.43
4:AK:21:MET:SD	4:AK:49:MET:CE	3.06	0.43
4:AK:47:LYS:HD3	4:AK:47:LYS:HA	1.92	0.43
5:AO:34:PHE:CD2	5:AO:98:ARG:NH1	2.87	0.43
5:AO:38:ASN:O	5:AO:39:ASP:HB2	2.19	0.43
8:AS:136:THR:OG1	36:B2:1520:G:C5'	2.67	0.43
10:AN:92:ILE:CG2	10:AN:150:VAL:HG23	2.46	0.43
11:AL:12:LYS:HE3	11:AL:12:LYS:HB3	1.80	0.43
11:AL:23:VAL:HG22	11:AL:24:LEU:H	1.84	0.43
11:AL:71:ARG:NH1	36:B2:353:C:C4'	2.82	0.43
12:AR:20:TYR:HE1	12:AR:38:ILE:HG21	1.57	0.43
13:AP:22:LEU:HA	13:AP:25:LEU:CB	2.47	0.43
14:AT:124:THR:OG1	14:AT:125:PRO:HD2	2.19	0.43
16:AA:7:VAL:HG22	16:AA:8:LEU:N	2.32	0.43
16:AA:169:HIS:ND1	16:AA:169:HIS:N	2.66	0.43
18:AY:33:ALA:O	18:AY:34:THR:HB	2.19	0.43
18:AY:100:LYS:O	18:AY:100:LYS:CG	2.55	0.43
27:AE:102:ILE:HG23	27:AE:182:MET:SD	2.58	0.43
29:AG:27:PHE:C	29:AG:30:LYS:HG2	2.43	0.43
29:AG:46:LYS:HG2	29:AG:118:GLU:OE1	2.19	0.43
29:AG:151:ASP:O	29:AG:152:ASP:HB3	2.18	0.43
30:AF:47:LYS:CD	30:AF:47:LYS:N	2.78	0.43
30:AF:127:ARG:O	30:AF:127:ARG:HD3	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:169:LYS:HB3	31:AH:173:PHE:CZ	2.54	0.43
33:AI:42:ARG:HB3	33:AI:58:LEU:O	2.19	0.43
33:AI:140:LYS:HD3	33:AI:141:ARG:N	2.33	0.43
33:AI:145:ILE:C	33:AI:148:LYS:HG3	2.43	0.43
34:AQ:42:ILE:HD12	34:AQ:51:LEU:HD11	1.95	0.43
34:AQ:80:GLN:O	34:AQ:81:ILE:C	2.62	0.43
35:Ah:151:PHE:CB	35:Ah:153:VAL:N	2.75	0.43
36:B2:841:G:H2'	36:B2:842:C:C5'	2.41	0.43
36:B2:1196:A:C2	36:B2:1197:G:H1'	2.53	0.43
36:B2:1644:C:H2'	36:B2:1645:C:C6	2.54	0.43
38:Cz:53:VAL:HG22	38:Cz:54:ARG:N	2.34	0.43
38:Cz:82:ILE:HB	38:Cz:147:LYS:HG2	2.00	0.43
41:CO:190:ASP:CB	41:CO:194:GLU:H	2.31	0.43
42:CL:62:PRO:CD	42:CL:71:ARG:HH21	2.28	0.43
42:CL:140:SER:O	42:CL:143:GLU:CB	2.64	0.43
42:CL:182:LEU:CG	45:Ca:129:PHE:HE2	2.18	0.43
44:CM:120:ASN:O	44:CM:123:ILE:HG23	2.11	0.43
45:Ca:17:HIS:CD2	45:Ca:19:HIS:NE2	2.83	0.43
45:Ca:34:ASN:HB2	85:A5:94:A:H5''	2.00	0.43
46:CN:120:TRP:CZ2	46:CN:122:GLY:CA	3.01	0.43
46:CN:136:ASP:O	46:CN:142:ILE:HD12	2.18	0.43
47:CI:142:LEU:O	47:CI:145:GLU:HG3	2.18	0.43
49:CQ:139:LEU:HA	49:CQ:139:LEU:HD23	1.49	0.43
50:CR:3:MET:SD	50:CR:5:ARG:HD2	2.58	0.43
50:CR:133:LYS:HD2	50:CR:137:ILE:CG1	2.48	0.43
51:CA:202:VAL:HG13	51:CA:202:VAL:O	2.18	0.43
52:CS:2:LYS:C	52:CS:4:SER:N	2.75	0.43
52:CS:73:LEU:O	52:CS:76:LYS:NZ	2.49	0.43
53:CT:81:LYS:CA	62:Cb:16:TRP:HH2	2.00	0.43
54:CP:42:ARG:O	54:CP:45:THR:OG1	2.37	0.43
54:CP:115:GLU:OE1	54:CP:151:THR:HG21	2.19	0.43
55:CU:60:VAL:HG22	55:CU:75:GLU:HB2	2.00	0.43
60:Cr:50:GLY:HA3	60:Cr:64:ILE:HG21	1.98	0.43
62:Cb:5:LYS:HA	62:Cb:5:LYS:HD2	1.48	0.43
62:Cb:39:PHE:HZ	85:A5:1824:G:O2'	2.00	0.43
63:CB:30:LYS:HD3	63:CB:30:LYS:HA	1.28	0.43
63:CB:78:ILE:HD12	63:CB:78:ILE:C	2.35	0.43
64:CF:117:ILE:HG12	64:CF:118:PHE:CD1	2.54	0.43
66:Cd:25:TYR:CE2	66:Cd:88:LEU:HD11	2.54	0.43
66:Cd:89:SER:OG	66:Cd:105:LEU:CD1	2.67	0.43
67:Ce:29:VAL:C	67:Ce:31:ILE:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:Cf:10:ILE:C	68:Cf:101:ILE:HD11	2.43	0.43
68:Cf:106:TYR:OH	85:A5:4947:U:N3	2.52	0.43
70:Ci:86:LYS:HA	70:Ci:86:LYS:HD2	1.64	0.43
71:Cj:16:HIS:ND1	71:Cj:28:HIS:HA	2.33	0.43
71:Cj:83:THR:HG23	87:A8:94:G:H1	1.84	0.43
74:CC:7:LEU:CD1	74:CC:21:ASN:C	2.92	0.43
74:CC:60:HIS:C	74:CC:62:THR:N	2.73	0.43
74:CC:323:ARG:HD3	74:CC:327:LYS:HB2	1.99	0.43
77:Cp:92:GLN:OXT	77:Cp:92:GLN:HG2	2.09	0.43
79:CJ:85:LYS:O	79:CJ:88:LYS:HB3	2.19	0.43
79:CJ:112:HIS:CE1	79:CJ:126:TYR:N	2.87	0.43
81:CE:120:ASP:OD1	81:CE:120:ASP:C	2.62	0.43
81:CE:197:THR:CG2	81:CE:198:SER:N	2.82	0.43
81:CE:224:LYS:N	81:CE:225:PRO:HD3	2.33	0.43
81:CE:236:GLU:OE1	81:CE:239:LYS:HD3	2.18	0.43
82:CG:22:GLN:HB3	82:CG:23:GLU:H	1.51	0.43
82:CG:49:ARG:C	82:CG:51:LEU:HD23	2.39	0.43
82:CG:175:ARG:HG3	82:CG:230:TYR:CD1	2.54	0.43
85:A5:975:C:O4'	85:A5:975:C:C6	2.71	0.43
85:A5:2589:C:H5'	85:A5:2590:G:OP2	2.18	0.43
87:A8:94:G:C1'	87:A8:95:A:P	3.06	0.43
1:Az:147:ILE:HD11	1:Az:193:GLY:CA	2.49	0.43
1:Az:306:ASN:O	1:Az:307:PHE:HB2	2.19	0.43
1:Az:634:TYR:CZ	1:Az:639:TYR:HE2	2.37	0.43
3:AU:33:GLU:CD	3:AU:55:ARG:HH21	2.24	0.43
3:AU:67:LYS:CD	3:AU:78:ASP:OD2	2.66	0.43
5:AO:26:ASN:CB	5:AO:91:THR:OG1	2.63	0.43
5:AO:131:ASP:OD1	5:AO:133:THR:HG23	2.18	0.43
6:AX:27:TYR:CG	6:AX:31:HIS:CD2	3.07	0.43
10:AN:56:ASP:HB2	21:Ab:52:THR:OG1	2.19	0.43
11:AL:80:MET:HE3	11:AL:120:VAL:CG1	2.47	0.43
12:AR:121:GLN:NE2	12:AR:121:GLN:CA	2.76	0.43
16:AA:124:VAL:HG21	16:AA:134:LEU:HD21	2.00	0.43
16:AA:186:ARG:HG3	17:AV:46:PHE:CZ	2.48	0.43
18:AY:47:MET:CE	36:B2:837:A:C5	3.02	0.43
18:AY:102:THR:HB	18:AY:103:SER:C	2.43	0.43
18:AY:119:GLY:HA2	36:B2:85:A:H5'	1.99	0.43
19:AZ:52:LYS:HB3	19:AZ:53:ALA:H	1.49	0.43
19:AZ:90:GLU:O	19:AZ:93:SER:N	2.43	0.43
23:AD:101:GLN:O	23:AD:104:SER:HB2	2.19	0.43
24:Ae:35:ARG:HH11	26:AJ:36:GLY:HA2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:34:GLU:O	26:AJ:123:ILE:HD12	2.19	0.43
26:AJ:50:LEU:CB	26:AJ:102:ILE:CD1	2.97	0.43
26:AJ:50:LEU:CG	26:AJ:102:ILE:HD13	2.49	0.43
26:AJ:101:LYS:CG	26:AJ:103:GLU:OE1	2.61	0.43
27:AE:59:ASP:OD1	27:AE:63:LYS:HE3	2.18	0.43
27:AE:71:LYS:HE2	27:AE:74:GLY:HA2	1.97	0.43
28:AC:259:THR:O	28:AC:261:PHE:HD2	2.02	0.43
29:AG:11:GLY:N	58:CW:80:ARG:NH2	2.64	0.43
29:AG:70:HIS:HA	29:AG:98:ARG:HH12	1.83	0.43
29:AG:79:LYS:HA	29:AG:86:PRO:HG2	2.01	0.43
29:AG:214:ALA:O	29:AG:218:LYS:HG3	2.18	0.43
30:AF:49:LEU:HA	30:AF:50:PRO:HD3	1.88	0.43
30:AF:190:ILE:CG2	30:AF:191:LYS:N	2.82	0.43
31:AH:110:THR:HG23	36:B2:799:U:H5'	2.00	0.43
32:AW:30:CYS:C	32:AW:34:ILE:HD12	2.44	0.43
32:AW:107:SER:HA	36:B2:862:A:C5	2.54	0.43
33:AI:58:LEU:O	33:AI:59:ARG:HB2	2.19	0.43
34:AQ:16:LYS:O	34:AQ:17:LYS:C	2.61	0.43
36:B2:371:A:N6	36:B2:392:A:H61	2.16	0.43
36:B2:887:U:C6	36:B2:888:U:C6	3.06	0.43
38:Cz:85:MET:SD	38:Cz:89:ALA:CB	3.07	0.43
38:Cz:187:VAL:O	38:Cz:191:VAL:HG23	2.19	0.43
38:Cz:198:TRP:CZ3	38:Cz:202:ARG:NH1	2.87	0.43
39:Cq:271:ASP:C	39:Cq:275:PHE:CE2	2.97	0.43
40:CK:88:PRO:HB2	40:CK:89:PRO:CB	2.48	0.43
41:CO:191:LYS:HB3	41:CO:192:TYR:CD1	2.53	0.43
42:CL:127:PHE:CZ	42:CL:144:LEU:CD2	3.01	0.43
42:CL:190:ARG:HD3	42:CL:190:ARG:C	2.43	0.43
45:Ca:36:GLY:HA3	45:Ca:41:HIS:HD2	1.83	0.43
45:Ca:75:LEU:CD2	45:Ca:78:LEU:HD22	2.49	0.43
47:CI:15:LYS:O	47:CI:16:PRO:C	2.61	0.43
47:CI:30:LYS:HE3	47:CI:30:LYS:HA	0.53	0.43
47:CI:76:MET:HG2	47:CI:151:ALA:CB	2.48	0.43
53:CT:120:LYS:C	53:CT:122:LYS:H	2.27	0.43
54:CP:29:THR:CA	54:CP:32:THR:HG22	2.39	0.43
54:CP:39:MET:O	54:CP:40:HIS:C	2.62	0.43
57:CY:50:ARG:CG	57:CY:115:ARG:HH21	2.31	0.43
58:CW:4:GLU:OE1	58:CW:5:LEU:O	2.37	0.43
59:CZ:14:LEU:HD11	69:Cg:88:ARG:CB	2.29	0.43
59:CZ:73:LYS:CG	59:CZ:75:TYR:CD2	3.02	0.43
63:CB:297:LYS:CD	63:CB:297:LYS:H	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:315:ASN:HD21	63:CB:320:PHE:H	1.66	0.43
64:CF:193:GLU:CG	64:CF:200:ARG:HB3	2.48	0.43
67:Ce:4:LEU:O	67:Ce:5:ARG:HB2	2.19	0.43
69:Cg:5:LEU:HD23	69:Cg:22:LEU:HD13	1.90	0.43
69:Cg:59:VAL:CG1	69:Cg:60:ARG:O	2.66	0.43
71:Cj:31:LYS:O	71:Cj:33:THR:HG23	2.19	0.43
74:CC:130:ALA:HB1	74:CC:136:LEU:HD13	2.00	0.43
76:Cn:10:MET:HE1	76:Cn:13:LEU:HD12	2.00	0.43
79:CJ:22:LEU:HD13	79:CJ:43:LEU:HD21	2.00	0.43
79:CJ:85:LYS:HD2	79:CJ:115:LEU:HB2	2.00	0.43
81:CE:31:ASN:CB	81:CE:32:LEU:HD22	2.48	0.43
81:CE:181:LEU:CD1	81:CE:268:GLN:CG	2.64	0.43
81:CE:212:LEU:HD13	81:CE:216:TYR:HD2	1.78	0.43
81:CE:258:LEU:CA	81:CE:261:ILE:HG12	2.47	0.43
81:CE:267:LEU:O	81:CE:271:LEU:HG	2.18	0.43
82:CG:77:PRO:CD	82:CG:237:TRP:CZ3	2.99	0.43
83:Cs:17:HIS:ND1	83:Cs:56:ILE:HD13	2.29	0.43
83:Ct:7:LEU:C	84:Cv:12:LEU:HD13	2.44	0.43
83:Ct:31:LEU:HD21	84:Cv:30:VAL:CB	2.49	0.43
85:A5:1342:A:N6	85:A5:1514:U:H3	2.15	0.43
85:A5:2505:C:H1'	85:A5:2506:G:C8	2.54	0.43
85:A5:2552:G:H2'	85:A5:2553:A:O5'	2.18	0.43
85:A5:4749:C:N4	85:A5:4951:G:N2	2.67	0.43
87:A8:102:G:C6	87:A8:104:A:N6	2.87	0.43
1:Az:504:VAL:HB	1:Az:812:CYS:SG	2.59	0.43
2:Ag:76:GLN:C	2:Ag:77:PHE:CD1	2.96	0.43
2:Ag:142:VAL:C	2:Ag:143:GLN:O	2.59	0.43
3:AU:32:LEU:HD22	3:AU:85:HIS:HB2	2.00	0.43
3:AU:68:THR:HG22	3:AU:69:PRO:HD2	2.01	0.43
5:AO:39:ASP:CG	5:AO:40:THR:N	2.76	0.43
6:AX:71:ARG:NE	6:AX:82:THR:HG22	2.27	0.43
8:AS:25:LYS:HG3	8:AS:54:LYS:O	2.19	0.43
8:AS:30:ILE:C	8:AS:32:ALA:H	2.27	0.43
8:AS:88:LYS:HD3	13:AP:37:TYR:HA	2.01	0.43
11:AL:113:LEU:HD23	11:AL:114:SER:O	2.18	0.43
11:AL:148:ALA:O	11:AL:150:GLY:N	2.51	0.43
12:AR:93:GLN:C	12:AR:94:GLU:O	2.56	0.43
15:AB:206:PRO:O	15:AB:207:LEU:CB	2.67	0.43
16:AA:58:LEU:CD2	16:AA:58:LEU:C	2.92	0.43
16:AA:66:VAL:CG1	16:AA:186:ARG:HD3	2.47	0.43
18:AY:46:LYS:O	18:AY:47:MET:CG	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:Ab:36:LYS:NZ	21:Ab:43:ILE:HD11	2.34	0.43
25:Af:85:TYR:C	25:Af:86:THR:HG23	2.43	0.43
27:AE:92:ILE:CG2	27:AE:97:GLU:OE1	2.67	0.43
28:AC:65:LYS:C	28:AC:273:LEU:HD13	2.44	0.43
29:AG:5:ILE:HG22	29:AG:124:LEU:CD2	2.43	0.43
29:AG:176:ILE:HG22	29:AG:179:LEU:CD2	2.32	0.43
30:AF:63:LYS:HE2	36:B2:1677:U:OP2	2.19	0.43
31:AH:69:LEU:O	31:AH:73:GLN:CG	2.66	0.43
31:AH:80:VAL:HA	31:AH:83:LEU:HG	2.00	0.43
31:AH:145:ARG:HE	31:AH:145:ARG:HB3	1.76	0.43
33:AI:124:LYS:HB3	33:AI:125:LYS:H	1.48	0.43
34:AQ:62:ARG:HD3	34:AQ:62:ARG:HA	1.47	0.43
36:B2:126:G:N2	36:B2:180:G:O3'	2.49	0.43
36:B2:433:A:C2	36:B2:434:G:C5	3.07	0.43
36:B2:589:G:H2'	36:B2:590:A:OP2	2.19	0.43
36:B2:1375:G:H8	36:B2:1375:G:O5'	2.02	0.43
36:B2:1512:C:H2'	36:B2:1513:C:C6	2.53	0.43
36:B2:1834:A:H3'	36:B2:1835:A:H5''	2.00	0.43
38:Cz:33:GLU:H	38:Cz:207:LYS:HB2	1.82	0.43
38:Cz:59:PRO:HD2	38:Cz:153:SER:CB	2.48	0.43
39:Cq:69:LEU:HD12	39:Cq:69:LEU:HA	1.76	0.43
39:Cq:259:PHE:CB	39:Cq:260:PRO:CD	2.80	0.43
40:CK:120:SER:OG	40:CK:121:LEU:N	2.49	0.43
41:CO:170:LYS:HE2	41:CO:170:LYS:HB3	1.60	0.43
41:CO:196:LEU:HD13	44:CM:119:ARG:HH21	1.83	0.43
42:CL:58:ILE:HD13	42:CL:157:VAL:CG1	2.26	0.43
42:CL:125:ILE:HD13	42:CL:142:GLU:O	2.19	0.43
42:CL:148:THR:O	42:CL:149:GLN:O	2.36	0.43
43:CV:99:GLU:HB3	58:CW:24:THR:HG22	2.00	0.43
44:CM:120:ASN:HA	44:CM:123:ILE:HG21	2.01	0.43
46:CN:83:LYS:HE3	85:A5:45:U:O4	2.18	0.43
48:CD:111:ASN:C	48:CD:113:PHE:N	2.76	0.43
48:CD:234:ASP:OD1	48:CD:235:MET:N	2.52	0.43
50:CR:81:ARG:HG2	50:CR:88:ARG:NH1	2.33	0.43
51:CA:174:ARG:O	51:CA:174:ARG:HG2	2.18	0.43
53:CT:30:TYR:O	53:CT:31:MET:C	2.62	0.43
53:CT:97:LYS:O	53:CT:98:HIS:C	2.62	0.43
53:CT:135:PRO:CG	53:CT:136:ARG:N	2.60	0.43
54:CP:10:ASN:CG	54:CP:12:THR:OG1	2.58	0.43
54:CP:104:LEU:HD23	54:CP:104:LEU:HA	1.77	0.43
56:CX:38:LYS:CG	56:CX:39:LYS:O	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:CW:4:GLU:OE1	58:CW:5:LEU:N	2.47	0.43
59:CZ:68:ILE:HD13	59:CZ:118:PHE:HB3	2.01	0.43
60:Cr:60:VAL:HA	60:Cr:86:ALA:O	2.18	0.43
63:CB:249:ARG:C	63:CB:250:LYS:HG3	2.44	0.43
63:CB:333:LEU:CD2	63:CB:337:VAL:CG1	2.95	0.43
64:CF:22:ARG:O	64:CF:24:ASN:HB2	2.19	0.43
64:CF:105:VAL:HG21	64:CF:139:TYR:HE2	1.83	0.43
64:CF:182:TYR:CE1	64:CF:200:ARG:CZ	3.01	0.43
64:CF:209:TRP:CG	64:CF:210:PRO:CD	3.01	0.43
65:Cc:68:LYS:HA	65:Cc:68:LYS:HD3	1.67	0.43
66:Cd:24:GLU:OE2	66:Cd:122:VAL:HG21	2.19	0.43
67:Ce:124:ASN:C	67:Ce:125:PRO:O	2.59	0.43
68:Cf:9:ALA:CA	68:Cf:31:GLU:OE1	2.55	0.43
68:Cf:30:ILE:C	68:Cf:32:GLY:N	2.57	0.43
68:Cf:63:LYS:N	68:Cf:64:PRO:HD2	2.33	0.43
74:CC:32:ILE:HD13	74:CC:126:SER:O	2.19	0.43
74:CC:95:MET:HE3	74:CC:95:MET:HB2	1.94	0.43
74:CC:210:ILE:HD12	74:CC:252:TRP:CZ3	2.52	0.43
74:CC:266:THR:O	74:CC:269:LYS:O	2.35	0.43
78:Co:76:ASN:C	78:Co:78:ARG:H	2.24	0.43
79:CJ:26:VAL:HG21	79:CJ:33:LEU:CD2	2.43	0.43
80:CH:52:LYS:HD2	80:CH:52:LYS:HA	1.43	0.43
80:CH:93:ARG:HE	80:CH:143:GLU:CD	2.11	0.43
81:CE:115:TYR:CB	81:CE:117:PRO:HD3	2.49	0.43
81:CE:219:LYS:HA	85:A5:4939:C:H2'	2.00	0.43
81:CE:225:PRO:HG2	81:CE:231:GLU:OE2	2.19	0.43
82:CG:138:ALA:HA	82:CG:143:VAL:CG2	2.49	0.43
83:Ct:37:VAL:CG1	83:Ct:38:ASN:N	2.81	0.43
84:Cu:2:ARG:NE	84:Cu:32:ILE:CD1	2.82	0.43
84:Cv:19:SER:O	84:Cv:23:ILE:HG13	2.19	0.43
85:A5:1102:U:N3	85:A5:1103:C:C5	2.87	0.43
85:A5:1276:C:O4'	85:A5:1276:C:C6	2.72	0.43
85:A5:1371:A:H3'	85:A5:1371:A:C8	2.54	0.43
85:A5:1431:C:H2'	85:A5:1432:G:H5'	2.01	0.43
85:A5:1965:G:H2'	85:A5:1966:C:C6	2.53	0.43
85:A5:3801:U:H5'	85:A5:4496:A:N3	2.33	0.43
85:A5:3937:C:H2'	85:A5:3938:G:C2	2.54	0.43
1:Az:91:GLN:O	1:Az:92:SER:C	2.61	0.43
2:Ag:218:LEU:HD23	2:Ag:230:LEU:HD13	2.00	0.43
4:AK:1:MET:HG3	36:B2:1274:G:C5'	2.47	0.43
4:AK:10:ALA:HA	4:AK:13:GLU:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AO:30:VAL:HG13	5:AO:47:LEU:HA	2.00	0.43
5:AO:64:ALA:CB	5:AO:66:ARG:HE	2.28	0.43
6:AX:1:MET:O	6:AX:3:LYS:N	2.51	0.43
6:AX:67:ARG:O	6:AX:68:LYS:CB	2.66	0.43
6:AX:70:VAL:CG1	6:AX:71:ARG:N	2.82	0.43
8:AS:15:VAL:CG1	8:AS:16:LEU:N	2.82	0.43
8:AS:33:ILE:CG2	8:AS:36:VAL:CG1	2.97	0.43
8:AS:46:ARG:HD2	14:AT:50:GLU:HG2	2.00	0.43
8:AS:54:LYS:HD3	8:AS:58:GLU:CD	2.43	0.43
10:AN:2:GLY:O	10:AN:3:ARG:HB2	2.19	0.43
12:AR:88:VAL:O	12:AR:88:VAL:HG12	2.15	0.43
14:AT:7:LYS:HE3	36:B2:1430:C:O2'	2.19	0.43
14:AT:75:MET:CA	14:AT:78:ILE:HG22	2.49	0.43
15:AB:37:ALA:HA	15:AB:42:ARG:HE	1.83	0.43
17:AV:18:SER:HG	17:AV:72:LEU:HD13	1.83	0.43
23:AD:58:VAL:O	23:AD:65:ARG:HB2	2.19	0.43
23:AD:108:LYS:HA	23:AD:113:LEU:CD2	2.48	0.43
23:AD:141:LYS:HZ3	36:B2:1332:A:C2'	2.31	0.43
26:AJ:130:ILE:CG1	26:AJ:135:ILE:CD1	2.81	0.43
27:AE:2:ALA:C	27:AE:3:ARG:CG	2.92	0.43
27:AE:45:ILE:HD12	27:AE:80:ILE:CG2	2.49	0.43
27:AE:181:CYS:O	27:AE:192:ILE:HG23	2.18	0.43
29:AG:58:LYS:HG2	29:AG:58:LYS:H	1.51	0.43
31:AH:14:GLU:HG2	31:AH:15:LYS:O	2.18	0.43
31:AH:126:HIS:O	31:AH:130:LEU:HD22	2.19	0.43
33:AI:105:ASP:O	33:AI:106:SER:CB	2.64	0.43
34:AQ:56:LEU:H	34:AQ:56:LEU:HG	1.66	0.43
35:Ah:150:GLU:O	35:Ah:151:PHE:HD1	2.01	0.43
36:B2:845:G:C2'	36:B2:846:G:H8	2.32	0.43
36:B2:1551:U:H2'	36:B2:1552:G:C8	2.52	0.43
38:Cz:216:LEU:HD12	38:Cz:216:LEU:O	2.19	0.43
39:Cq:28:PHE:CD1	39:Cq:189:ILE:HD11	2.54	0.43
39:Cq:203:VAL:HG13	83:Cs:46:LEU:HD11	1.99	0.43
40:CK:39:PRO:C	40:CK:40:LYS:HE2	2.44	0.43
42:CL:18:TRP:HE3	42:CL:22:VAL:CG2	2.32	0.43
42:CL:125:ILE:C	42:CL:127:PHE:CE1	2.95	0.43
42:CL:163:LYS:HD2	42:CL:163:LYS:HA	1.50	0.43
43:CV:100:ASP:C	43:CV:100:ASP:OD1	2.61	0.43
45:Ca:53:PHE:O	49:CQ:178:ARG:HB2	2.19	0.43
45:Ca:65:ARG:O	45:Ca:65:ARG:CG	2.65	0.43
45:Ca:84:GLU:HG3	45:Ca:85:GLN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:CI:104:SER:CA	47:CI:112:GLN:CG	2.64	0.43
48:CD:64:ILE:HD13	48:CD:109:LEU:CD1	2.49	0.43
48:CD:119:TYR:CD1	48:CD:135:ILE:CD1	3.02	0.43
49:CQ:61:LEU:O	49:CQ:86:ILE:HA	2.18	0.43
49:CQ:82:VAL:CG2	49:CQ:86:ILE:HD11	2.47	0.43
49:CQ:94:GLU:O	49:CQ:95:VAL:CG1	2.67	0.43
49:CQ:94:GLU:C	49:CQ:95:VAL:CG1	2.92	0.43
49:CQ:154:LYS:HE3	49:CQ:163:THR:OG1	2.19	0.43
50:CR:31:GLU:CD	55:CU:125:GLU:C	2.86	0.43
50:CR:81:ARG:CG	50:CR:88:ARG:NH1	2.82	0.43
51:CA:116:LEU:HD11	51:CA:126:LEU:CB	2.45	0.43
52:CS:13:VAL:HG22	52:CS:62:VAL:HB	1.99	0.43
54:CP:107:LEU:HA	54:CP:152:GLU:OE2	2.19	0.43
55:CU:66:SER:O	55:CU:67:LYS:CB	2.65	0.43
57:CY:104:VAL:CG1	57:CY:105:VAL:H	2.32	0.43
60:Cr:9:VAL:CG1	74:CC:136:LEU:HD21	2.43	0.43
61:Ch:9:LEU:HA	61:Ch:12:LYS:HD2	1.99	0.43
61:Ch:92:ARG:NH1	87:A8:38:U:C4	2.87	0.43
63:CB:85:VAL:CG1	63:CB:165:HIS:NE2	2.82	0.43
63:CB:393:LYS:HD2	63:CB:393:LYS:HA	1.70	0.43
64:CF:156:LYS:HD3	64:CF:248:ASN:OD1	2.19	0.43
65:Cc:44:LYS:HE3	65:Cc:97:ILE:CG2	2.46	0.43
66:Cd:38:PHE:O	66:Cd:77:ILE:HG22	2.19	0.43
66:Cd:42:ALA:C	66:Cd:73:TRP:CZ2	2.97	0.43
67:Ce:72:SER:OG	67:Ce:74:PHE:CE2	2.72	0.43
69:Cg:24:ARG:HA	69:Cg:29:ARG:O	2.19	0.43
70:Ci:60:LEU:C	70:Ci:64:SER:HG	2.21	0.43
70:Ci:88:GLU:O	70:Ci:89:GLU:C	2.61	0.43
74:CC:11:TYR:OH	74:CC:148:PRO:CB	2.67	0.43
74:CC:163:LYS:HB2	74:CC:166:GLU:OE1	2.19	0.43
77:Cp:36:LYS:HZ2	77:Cp:46:LYS:HZ3	1.61	0.43
79:CJ:86:GLY:O	79:CJ:87:LEU:C	2.62	0.43
81:CE:84:LYS:C	81:CE:85:LYS:C	2.86	0.43
81:CE:172:LEU:CD2	85:A5:4941:G:C8	3.02	0.43
82:CG:63:LEU:CB	82:CG:67:ARG:HH12	2.26	0.43
82:CG:70:LEU:O	82:CG:70:LEU:HD22	2.18	0.43
85:A5:1358:G:H3'	85:A5:1359:G:C8	2.54	0.43
85:A5:1391:A:H2'	85:A5:1392:A:C8	2.54	0.43
85:A5:2022:C:H3'	85:A5:2023:C:H6	1.84	0.43
85:A5:2503:G:C4	85:A5:4084:G:H8	2.36	0.43
85:A5:4881:U:O2'	85:A5:4882:U:OP1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:41:CYS:CA	1:Az:49:ALA:HB2	2.48	0.42
1:Az:55:ARG:O	1:Az:57:THR:N	2.52	0.42
1:Az:155:LEU:H	1:Az:205:ILE:HD11	1.84	0.42
1:Az:267:ASP:CA	1:Az:267:ASP:O	2.55	0.42
1:Az:390:PRO:N	1:Az:466:CYS:SG	2.92	0.42
1:Az:589:VAL:CG1	1:Az:590:LEU:N	2.82	0.42
1:Az:693:CYS:HB3	1:Az:835:VAL:O	2.18	0.42
1:Az:794:PHE:C	1:Az:796:PHE:H	2.26	0.42
1:Az:807:GLN:C	1:Az:808:ALA:O	2.61	0.42
2:Ag:21:ILE:CG2	2:Ag:22:ALA:N	2.82	0.42
2:Ag:198:VAL:CG1	2:Ag:199:THR:N	2.82	0.42
2:Ag:261:LEU:O	2:Ag:264:LYS:HD2	2.18	0.42
4:AK:1:MET:HG2	4:AK:2:LEU:CB	2.49	0.42
4:AK:8:ARG:HG2	4:AK:12:TYR:CE1	2.53	0.42
4:AK:14:LEU:CB	4:AK:35:LEU:HD21	2.49	0.42
4:AK:89:ILE:HG23	4:AK:90:VAL:H	1.83	0.42
4:AK:95:ARG:HD2	23:AD:67:ARG:CZ	2.48	0.42
7:AM:61:TYR:HH	7:AM:108:CYS:CB	2.32	0.42
8:AS:40:TYR:CE1	8:AS:44:VAL:CG2	3.01	0.42
8:AS:71:MET:HG3	8:AS:99:LEU:CD1	2.48	0.42
11:AL:10:TYR:CE2	11:AL:12:LYS:HB3	2.53	0.42
11:AL:71:ARG:CG	11:AL:73:LEU:CG	2.94	0.42
13:AP:17:TYR:CE2	13:AP:25:LEU:HD21	2.54	0.42
13:AP:41:GLN:NE2	13:AP:84:ILE:HD13	2.34	0.42
13:AP:84:ILE:C	13:AP:86:LEU:HD23	2.39	0.42
14:AT:39:LEU:HD11	14:AT:99:VAL:HG21	2.00	0.42
14:AT:65:TYR:CA	14:AT:123:LEU:HD13	2.43	0.42
15:AB:148:ASN:HD22	15:AB:148:ASN:N	2.14	0.42
19:AZ:58:LEU:CD2	19:AZ:77:LEU:HD11	2.38	0.42
19:AZ:104:ARG:HD3	36:B2:1594:A:C8	2.54	0.42
23:AD:126:ILE:HD12	23:AD:134:CYS:HB3	1.93	0.42
23:AD:226:GLN:C	23:AD:227:LYS:HG3	2.38	0.42
26:AJ:110:LEU:CD1	26:AJ:135:ILE:CD1	2.96	0.42
26:AJ:134:HIS:HE1	36:B2:562:U:OP1	2.01	0.42
28:AC:207:ALA:HB3	28:AC:210:PRO:CG	2.49	0.42
28:AC:260:VAL:O	28:AC:261:PHE:CB	2.65	0.42
29:AG:180:VAL:C	29:AG:181:THR:CG2	2.85	0.42
30:AF:115:ALA:HB3	30:AF:177:LEU:CD2	2.49	0.42
31:AH:145:ARG:NH1	31:AH:155:LYS:NZ	2.57	0.42
32:AW:26:LEU:HD12	32:AW:26:LEU:C	2.33	0.42
33:AI:19:LYS:HD2	33:AI:19:LYS:HA	1.10	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:AI:163:GLU:O	33:AI:166:PHE:HB2	2.19	0.42
34:AQ:138:ARG:HH12	36:B2:1646:C:C3'	2.31	0.42
36:B2:454:U:H2'	36:B2:455:A:C8	2.54	0.42
36:B2:547:G:H2'	36:B2:548:C:C6	2.54	0.42
36:B2:678:U:C2	36:B2:1028:A:C6	3.07	0.42
38:Cz:40:ASN:CG	38:Cz:198:TRP:HB3	2.42	0.42
38:Cz:84:HIS:CG	38:Cz:85:MET:N	2.87	0.42
38:Cz:204:LEU:HD23	38:Cz:205:TYR:H	1.80	0.42
39:Cq:242:ILE:HG23	83:Ct:63:VAL:HG21	1.94	0.42
40:CK:8:ASN:C	40:CK:9:GLU:CG	2.64	0.42
41:CO:68:ARG:CG	41:CO:68:ARG:HH11	2.32	0.42
41:CO:111:PRO:O	41:CO:113:ASP:N	2.52	0.42
42:CL:148:THR:C	42:CL:150:LEU:CD2	2.92	0.42
43:CV:83:ARG:NH1	43:CV:120:PRO:HD2	2.34	0.42
45:Ca:84:GLU:CA	45:Ca:87:ARG:NE	2.81	0.42
45:Ca:97:ALA:HB2	45:Ca:121:PRO:HB2	2.00	0.42
46:CN:68:ARG:CB	46:CN:126:THR:O	2.45	0.42
48:CD:185:SER:OG	48:CD:186:GLU:N	2.51	0.42
48:CD:200:MET:HE1	48:CD:244:HIS:CE1	2.40	0.42
49:CQ:31:LEU:HD11	74:CC:292:ILE:HG21	2.00	0.42
49:CQ:110:ARG:HH21	49:CQ:120:ILE:CD1	2.22	0.42
50:CR:71:ARG:NH1	50:CR:71:ARG:CG	2.80	0.42
51:CA:14:SER:OG	51:CA:15:VAL:N	2.51	0.42
53:CT:144:ASN:CA	53:CT:146:LYS:O	2.64	0.42
54:CP:18:ARG:CG	85:A5:399:G:C5'	2.86	0.42
55:CU:24:ASP:N	55:CU:111:GLU:HG2	2.33	0.42
56:CX:76:ILE:HG23	56:CX:77:ILE:N	2.33	0.42
56:CX:107:HIS:HE1	85:A5:2777:G:C5'	2.31	0.42
57:CY:52:ASP:OD1	57:CY:69:LYS:HG3	2.19	0.42
57:CY:56:GLN:HE21	57:CY:56:GLN:HB3	1.59	0.42
57:CY:124:LYS:CA	57:CY:127:GLN:HG2	2.48	0.42
58:CW:55:TYR:CE2	58:CW:59:HIS:CD2	3.07	0.42
59:CZ:103:ASP:HA	59:CZ:104:PRO:HD3	1.94	0.42
63:CB:113:GLU:CG	63:CB:176:LYS:O	2.67	0.42
64:CF:142:TRP:CH2	64:CF:235:ASN:ND2	2.86	0.42
64:CF:242:ARG:HH22	85:A5:941:C:H5''	1.83	0.42
66:Cd:29:ILE:CD1	66:Cd:84:ILE:CD1	2.97	0.42
66:Cd:91:LYS:HB3	66:Cd:103:TYR:CG	2.52	0.42
67:Ce:43:ASN:O	67:Ce:47:ARG:CG	2.67	0.42
69:Cg:46:CYS:CB	69:Cg:86:CYS:HB2	2.49	0.42
70:Ci:75:LYS:O	70:Ci:75:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:Ci:76:ARG:HE	70:Ci:76:ARG:CA	2.30	0.42
74:CC:158:VAL:C	74:CC:161:TYR:HD2	2.27	0.42
74:CC:238:LEU:HD23	74:CC:238:LEU:HA	1.84	0.42
79:CJ:169:LYS:HG3	79:CJ:170:TYR:N	2.34	0.42
81:CE:127:SER:HA	81:CE:128:HIS:C	2.27	0.42
81:CE:149:ILE:HG23	81:CE:149:ILE:O	2.19	0.42
81:CE:165:LEU:HD13	81:CE:208:ILE:HD11	2.01	0.42
81:CE:188:ARG:NH1	85:A5:4940:C:C4'	2.82	0.42
81:CE:232:ILE:O	81:CE:233:PHE:C	2.63	0.42
82:CG:141:ASN:O	82:CG:144:THR:OG1	2.35	0.42
82:CG:150:LYS:CD	82:CG:177:MET:CE	2.96	0.42
85:A5:1379:C:H4'	85:A5:1380:G:C8	2.53	0.42
85:A5:2256:C:H5''	85:A5:2258:C:H41	1.83	0.42
85:A5:2395:A:C4	85:A5:2807:A:C8	3.07	0.42
85:A5:4523:A:C2	85:A5:4559:A:C4	3.06	0.42
85:A5:4659:G:C6	85:A5:4660:G:C6	3.07	0.42
1:Az:580:ARG:H	1:Az:741:MET:HG2	1.84	0.42
1:Az:755:VAL:HG11	1:Az:808:ALA:CB	2.49	0.42
2:Ag:48:ASP:OD2	2:Ag:49:GLU:CA	2.67	0.42
4:AK:85:LEU:HD13	4:AK:89:ILE:CD1	2.48	0.42
5:AO:31:CYS:SG	5:AO:93:LEU:HB2	2.58	0.42
5:AO:91:THR:C	5:AO:124:MET:CE	2.92	0.42
5:AO:92:ALA:C	5:AO:93:LEU:HG	2.44	0.42
5:AO:147:ARG:HH21	5:AO:150:ARG:CD	2.31	0.42
6:AX:52:LEU:HD12	6:AX:53:GLU:HG2	1.91	0.42
8:AS:120:HIS:CD2	8:AS:124:ARG:CG	3.01	0.42
12:AR:50:ILE:O	12:AR:51:ALA:C	2.62	0.42
12:AR:104:GLU:HA	12:AR:107:LYS:HB2	2.00	0.42
13:AP:17:TYR:CD1	13:AP:18:ARG:HG3	2.54	0.42
13:AP:89:MET:HB3	13:AP:107:ILE:HD13	1.97	0.42
13:AP:100:LYS:HD2	13:AP:101:THR:N	2.35	0.42
13:AP:128:HIS:CD2	36:B2:1522:A:O4'	2.71	0.42
14:AT:55:THR:CG2	14:AT:56:ARG:N	2.82	0.42
15:AB:147:ASN:HD22	15:AB:147:ASN:HA	1.58	0.42
16:AA:159:ILE:HD12	16:AA:160:ALA:H	1.83	0.42
20:Aa:2:THR:CG2	36:B2:1199:A:H5''	2.48	0.42
23:AD:193:ASP:OD1	23:AD:203:PRO:C	2.62	0.42
24:Ae:6:LEU:C	24:Ae:8:ARG:H	2.27	0.42
25:Af:117:LEU:O	25:Af:118:ARG:CB	2.67	0.42
26:AJ:100:LEU:HD11	26:AJ:104:ASP:CB	2.49	0.42
28:AC:66:LEU:CD2	28:AC:75:ILE:HD12	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AG:229:ALA:HA	29:AG:232:ARG:HE	1.84	0.42
30:AF:18:LYS:HD2	34:AQ:57:LEU:HD23	2.01	0.42
30:AF:184:SER:C	30:AF:186:ASN:H	2.26	0.42
33:AI:172:LEU:N	33:AI:172:LEU:HD22	2.34	0.42
34:AQ:58:LEU:CD2	34:AQ:111:ILE:HB	2.48	0.42
36:B2:530:U:C4	36:B2:555:A:C2	3.07	0.42
36:B2:547:G:H2'	36:B2:548:C:C5	2.54	0.42
36:B2:796:G:H3'	36:B2:797:C:H5'	2.01	0.42
36:B2:1069:U:H5''	51:CA:248:GLY:HA2	2.01	0.42
36:B2:1518:C:OP1	36:B2:1519:U:H3'	2.19	0.42
36:B2:1790:A:C2	36:B2:1791:A:C4	3.07	0.42
38:Cz:58:THR:CB	38:Cz:153:SER:HB2	2.48	0.42
39:Cq:84:GLY:O	39:Cq:85:ASN:C	2.62	0.42
39:Cq:212:HIS:HE1	83:Cs:54:VAL:HG11	1.80	0.42
39:Cq:245:TYR:CD2	83:Ct:60:ILE:HG12	2.54	0.42
39:Cq:257:TYR:CE1	84:Cv:42:VAL:CG1	3.00	0.42
41:CO:190:ASP:HB2	41:CO:194:GLU:H	1.84	0.42
42:CL:125:ILE:CB	42:CL:127:PHE:HE1	2.33	0.42
42:CL:174:LYS:HE3	45:Ca:141:GLY:HA2	2.01	0.42
42:CL:191:LEU:O	42:CL:192:PHE:C	2.61	0.42
42:CL:207:VAL:CG1	42:CL:211:LYS:HE3	2.50	0.42
44:CM:68:ALA:C	44:CM:69:HIS:O	2.59	0.42
45:Ca:47:LYS:CG	49:CQ:156:PRO:O	2.67	0.42
45:Ca:97:ALA:HB1	45:Ca:121:PRO:HB2	2.00	0.42
46:CN:116:LEU:CG	46:CN:135:ILE:HD12	2.49	0.42
47:CI:205:PRO:O	47:CI:207:ASP:CB	2.67	0.42
48:CD:75:VAL:HG12	48:CD:76:CYS:SG	2.58	0.42
50:CR:34:ASN:HD22	55:CU:126:ASP:HA	1.84	0.42
50:CR:51:ILE:CG2	50:CR:52:ARG:N	2.82	0.42
51:CA:120:PRO:HG3	51:CA:159:SER:OG	2.19	0.42
51:CA:241:ARG:HG3	51:CA:242:ARG:N	2.35	0.42
52:CS:134:ALA:O	52:CS:136:LYS:HE2	2.08	0.42
53:CT:142:ARG:C	53:CT:143:THR:CG2	2.68	0.42
56:CX:81:LEU:HD11	56:CX:99:ILE:CG1	2.49	0.42
59:CZ:30:ASP:OD2	59:CZ:31:ASP:N	2.51	0.42
60:Cr:66:ARG:O	60:Cr:81:THR:N	2.52	0.42
60:Cr:109:ALA:HA	60:Cr:112:ARG:NH1	2.35	0.42
60:Cr:118:LEU:O	60:Cr:119:ARG:C	2.62	0.42
61:Ch:87:LYS:HB3	61:Ch:88:THR:H	1.58	0.42
61:Ch:94:ARG:HH21	61:Ch:94:ARG:HG3	1.84	0.42
62:Cb:30:GLU:N	62:Cb:30:GLU:CD	2.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:357:ARG:N	63:CB:359:ALA:O	2.51	0.42
63:CB:363:ILE:CG2	63:CB:364:ASP:N	2.82	0.42
65:Cc:11:LEU:CB	65:Cc:12:GLU:C	2.85	0.42
65:Cc:20:LEU:CD2	65:Cc:101:ASP:CB	2.93	0.42
69:Cg:3:GLN:HG2	69:Cg:29:ARG:NE	2.34	0.42
70:Ci:58:MET:CE	70:Ci:90:LEU:O	2.68	0.42
72:Ck:26:LYS:NZ	72:Ck:28:ASN:CG	2.69	0.42
74:CC:294:LYS:O	74:CC:295:SER:C	2.62	0.42
78:Co:70:LEU:HD12	78:Co:70:LEU:N	2.35	0.42
80:CH:169:ASN:O	80:CH:170:LYS:HE3	2.18	0.42
81:CE:201:ILE:CD1	81:CE:260:LYS:HG2	2.49	0.42
82:CG:28:VAL:C	82:CG:31:LEU:HD23	2.28	0.42
82:CG:82:GLN:C	82:CG:83:PHE:O	2.60	0.42
82:CG:189:ARG:NH1	87:A8:154:G:H4'	2.35	0.42
84:Cu:10:ALA:HB1	84:Cu:15:ASN:HB2	2.00	0.42
85:A5:173:C:O2	85:A5:263:G:C2	2.72	0.42
85:A5:1265:G:C6	85:A5:1266:G:C6	3.07	0.42
85:A5:1428:U:H2'	85:A5:1429:C:C5	2.54	0.42
85:A5:2263:A:C8	85:A5:2265:G:H8	2.35	0.42
85:A5:2520:C:H2'	85:A5:2521:G:C8	2.54	0.42
85:A5:2553:A:N3	85:A5:2553:A:H5''	2.34	0.42
85:A5:4127:A:HO2'	85:A5:4128:A:H5''	1.84	0.42
1:Az:10:ARG:CZ	1:Az:465:PRO:HD2	2.40	0.42
1:Az:24:VAL:CG2	1:Az:32:LYS:CG	2.97	0.42
1:Az:554:LEU:O	1:Az:558:LEU:HG	2.19	0.42
1:Az:613:LEU:HD21	1:Az:639:TYR:CD1	2.10	0.42
1:Az:641:TRP:CH2	1:Az:701:ARG:NH1	2.87	0.42
1:Az:745:TYR:HB2	1:Az:815:ASP:CB	2.50	0.42
1:Az:797:THR:CG2	1:Az:798:ALA:N	2.82	0.42
1:Az:845:LYS:HZ1	1:Az:846:GLU:CG	2.17	0.42
2:Ag:299:PHE:CD1	2:Ag:309:VAL:HG12	2.54	0.42
3:AU:44:LYS:C	3:AU:46:LYS:N	2.74	0.42
5:AO:92:ALA:O	5:AO:93:LEU:HD23	2.19	0.42
5:AO:106:LYS:HG3	20:Aa:69:VAL:HG11	2.01	0.42
5:AO:126:ILE:H	20:Aa:57:SER:HA	1.84	0.42
5:AO:128:ARG:NH2	15:AB:72:ALA:CB	2.72	0.42
8:AS:82:TRP:CG	36:B2:1567:G:C5	3.07	0.42
9:Ad:22:ARG:HH22	23:AD:16:ILE:CD1	2.20	0.42
11:AL:126:VAL:HG23	11:AL:145:VAL:HA	2.02	0.42
14:AT:47:PRO:HG2	14:AT:52:TRP:CD1	2.54	0.42
15:AB:55:THR:O	15:AB:56:LYS:CG	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:97:LEU:HD22	15:AB:232:HIS:CG	2.54	0.42
15:AB:105:LEU:CD2	15:AB:213:ARG:O	2.66	0.42
16:AA:16:LEU:HB2	16:AA:17:LYS:NZ	2.35	0.42
19:AZ:94:LYS:CE	19:AZ:95:GLY:N	2.81	0.42
20:Aa:45:VAL:HG11	20:Aa:53:ILE:HD13	1.92	0.42
22:Ac:34:PHE:O	22:Ac:36:ASP:N	2.47	0.42
23:AD:112:GLY:N	23:AD:113:LEU:HD11	2.28	0.42
23:AD:123:LEU:HA	23:AD:126:ILE:HG12	2.01	0.42
26:AJ:102:ILE:CG2	26:AJ:106:LEU:CD1	2.93	0.42
26:AJ:128:VAL:O	26:AJ:132:GLN:HG3	2.19	0.42
27:AE:99:PHE:HE1	27:AE:113:ARG:CG	2.03	0.42
27:AE:123:LEU:HD22	27:AE:236:ILE:HG23	2.02	0.42
28:AC:124:PHE:CD2	28:AC:147:VAL:HG23	2.54	0.42
28:AC:210:PRO:HG3	28:AC:236:PHE:CE1	2.55	0.42
29:AG:185:LEU:CB	29:AG:189:ARG:HH12	2.32	0.42
30:AF:94:LYS:HD2	30:AF:94:LYS:O	2.19	0.42
30:AF:112:LEU:HD23	30:AF:116:ILE:CG1	2.49	0.42
31:AH:14:GLU:HG3	31:AH:15:LYS:N	2.32	0.42
31:AH:169:LYS:O	31:AH:170:VAL:C	2.61	0.42
33:AI:29:LEU:HD21	33:AI:31:ARG:NH1	2.34	0.42
33:AI:62:VAL:HG23	33:AI:75:LYS:HE3	2.02	0.42
36:B2:1123:C:H2'	36:B2:1123:C:O2	2.19	0.42
36:B2:1242:U:H4'	36:B2:1243:U:H5''	2.01	0.42
36:B2:1536:G:H2'	36:B2:1537:A:H8	1.85	0.42
36:B2:1551:U:C5	36:B2:1577:G:N1	2.87	0.42
38:Cz:31:THR:CG2	38:Cz:168:ALA:HB1	2.49	0.42
38:Cz:59:PRO:C	38:Cz:61:PRO:HD3	2.44	0.42
38:Cz:180:VAL:CG1	38:Cz:181:TYR:N	2.83	0.42
39:Cq:105:ASN:HB3	39:Cq:106:LYS:H	1.69	0.42
39:Cq:108:PRO:O	39:Cq:184:SER:CB	2.60	0.42
39:Cq:260:PRO:CD	39:Cq:264:LYS:HG3	2.45	0.42
40:CK:104:ILE:HD13	40:CK:106:PHE:HE2	1.84	0.42
40:CK:136:ALA:HA	85:A5:2002:A:N6	2.34	0.42
40:CK:163:PRO:CD	40:CK:163:PRO:O	2.64	0.42
41:CO:49:ARG:NH1	41:CO:49:ARG:HG2	2.34	0.42
41:CO:73:PHE:HB3	41:CO:78:ARG:CB	2.49	0.42
42:CL:163:LYS:HE2	45:Ca:100:ILE:HG21	1.99	0.42
43:CV:83:ARG:NH1	43:CV:119:GLY:HA3	2.34	0.42
43:CV:106:VAL:CG1	43:CV:107:ASN:N	2.82	0.42
45:Ca:11:LEU:C	45:Ca:14:HIS:HD2	2.26	0.42
45:Ca:146:LEU:HB2	70:Ci:6:PRO:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:6:TYR:CE1	70:CI:40:VAL:HG13	2.54	0.42
46:CN:149:GLN:O	46:CN:152:THR:HG23	2.19	0.42
48:CD:130:TYR:HH	48:CD:132:VAL:HG22	1.80	0.42
48:CD:184:ASP:OD1	48:CD:186:GLU:OE2	2.37	0.42
50:CR:39:GLN:HE21	50:CR:39:GLN:HB3	1.58	0.42
51:CA:234:LYS:CG	51:CA:238:ILE:HD12	2.49	0.42
52:CS:4:SER:O	52:CS:35:PRO:CG	2.66	0.42
52:CS:82:LEU:HD23	52:CS:113:MET:CE	2.45	0.42
52:CS:106:VAL:CG1	52:CS:110:TYR:CE2	3.02	0.42
52:CS:157:ARG:HE	52:CS:157:ARG:HB2	1.49	0.42
53:CT:68:THR:O	53:CT:70:HIS:N	2.51	0.42
53:CT:111:GLU:HG3	53:CT:115:LYS:HE3	2.02	0.42
54:CP:60:PHE:O	54:CP:78:TRP:NE1	2.47	0.42
54:CP:115:GLU:OE1	54:CP:151:THR:CG2	2.67	0.42
55:CU:18:VAL:CG1	55:CU:19:LEU:N	2.82	0.42
57:CY:133:GLY:C	57:CY:134:LYS:O	2.57	0.42
59:CZ:5:MET:HB3	59:CZ:6:LYS:H	1.67	0.42
59:CZ:124:THR:O	59:CZ:126:LYS:N	2.52	0.42
60:CR:76:SER:CA	60:CR:79:ARG:CZ	2.97	0.42
60:CR:115:SER:HB3	81:CE:112:MET:HA	2.01	0.42
63:CB:76:VAL:C	63:CB:77:THR:CG2	2.76	0.42
64:CF:105:VAL:HG11	64:CF:139:TYR:CE2	2.54	0.42
66:CD:72:VAL:HG12	66:CD:73:TRP:CD1	2.53	0.42
68:CF:69:VAL:CG1	68:CF:71:TRP:CZ2	2.99	0.42
69:CG:19:LYS:HA	69:CG:19:LYS:HD3	1.27	0.42
69:CG:77:ALA:C	69:CG:79:GLY:N	2.68	0.42
69:CG:81:SER:OG	69:CG:82:MET:HG2	2.19	0.42
70:CI:4:ARG:HB2	70:CI:6:PRO:HD3	2.00	0.42
70:CI:62:LYS:HD3	70:CI:94:LEU:HD13	2.00	0.42
72:CK:14:THR:CG2	72:CK:15:ALA:N	2.83	0.42
74:CC:355:ALA:O	74:CC:358:ALA:N	2.53	0.42
76:CN:23:ARG:HE	76:CN:23:ARG:HB3	1.59	0.42
78:CO:13:LYS:CE	78:CO:81:ARG:HH11	2.32	0.42
78:CO:33:LEU:HA	78:CO:38:LYS:HG2	2.00	0.42
79:CJ:35:ARG:HD3	79:CJ:122:SER:O	2.20	0.42
81:CE:114:ARG:HH11	81:CE:114:ARG:HG3	1.83	0.42
81:CE:274:VAL:CG1	81:CE:275:PHE:CA	2.92	0.42
82:CG:120:LYS:HD3	82:CG:120:LYS:HA	1.75	0.42
82:CG:211:ASP:OD2	82:CG:214:ALA:HB3	2.16	0.42
83:CS:16:LEU:CG	83:CS:31:LEU:HD12	2.49	0.42
84:CU:3:TYR:OH	84:CU:38:ARG:HD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:509:A:H3'	85:A5:510:U:C5'	2.49	0.42
85:A5:2047:A:H61	85:A5:3885:G:H1'	1.84	0.42
85:A5:2549:G:C6	85:A5:2769:U:O4	2.72	0.42
86:A7:40:U:H5'	86:A7:41:G:OP2	2.19	0.42
86:A7:65:G:H8	86:A7:65:G:O5'	2.02	0.42
1:Az:35:LEU:HD13	1:Az:156:MET:CE	2.50	0.42
1:Az:56:PHE:CE2	1:Az:456:ARG:N	2.69	0.42
1:Az:153:PRO:C	1:Az:205:ILE:HD12	2.45	0.42
1:Az:154:VAL:CG2	1:Az:358:LEU:HD21	2.48	0.42
1:Az:616:ASP:O	1:Az:621:GLU:OE1	2.38	0.42
1:Az:749:ILE:O	1:Az:783:VAL:HA	2.20	0.42
2:Ag:37:ASP:O	2:Ag:38:LYS:CB	2.65	0.42
3:AU:48:LEU:O	3:AU:49:LYS:CG	2.66	0.42
4:AK:36:ALA:O	4:AK:38:LYS:CA	2.66	0.42
4:AK:90:VAL:HG13	35:Ah:285:PRO:HA	2.01	0.42
5:AO:146:ARG:HG3	5:AO:146:ARG:NH1	2.34	0.42
6:AX:58:GLU:O	6:AX:59:ALA:O	2.38	0.42
6:AX:128:VAL:HG12	6:AX:133:LEU:HD11	2.00	0.42
7:AM:18:LEU:HD21	7:AM:22:LEU:HD21	2.02	0.42
7:AM:40:LYS:NZ	25:Af:129:GLY:C	2.77	0.42
7:AM:113:ASP:O	7:AM:114:TYR:CG	2.72	0.42
10:AN:15:ALA:HB1	21:Ab:26:GLN:NE2	2.34	0.42
12:AR:110:ASP:O	12:AR:111:PHE:CD2	2.54	0.42
13:AP:40:ARG:O	13:AP:40:ARG:HD2	2.19	0.42
13:AP:67:ALA:HB1	13:AP:73:PRO:HB3	1.98	0.42
14:AT:66:LEU:HD23	14:AT:66:LEU:HA	1.85	0.42
16:AA:5:LEU:HD13	16:AA:6:ASP:CB	2.48	0.42
16:AA:157:VAL:O	17:AV:66:ASP:OD2	2.38	0.42
18:AY:52:PRO:C	18:AY:54:VAL:H	2.26	0.42
21:Ab:25:VAL:HG13	32:AW:55:ASP:CA	2.46	0.42
22:Ac:59:LEU:O	22:Ac:60:GLU:C	2.61	0.42
23:AD:94:ARG:HE	23:AD:94:ARG:HB3	1.40	0.42
23:AD:217:ILE:O	23:AD:218:LEU:CB	2.67	0.42
25:Af:95:ARG:NE	25:Af:95:ARG:HA	2.34	0.42
25:Af:146:LEU:CD2	36:B2:1292:C:H5'	2.49	0.42
27:AE:11:ARG:NH1	27:AE:21:ASP:OD1	2.51	0.42
27:AE:59:ASP:O	27:AE:63:LYS:HG3	2.20	0.42
27:AE:195:ILE:O	27:AE:196:THR:OG1	2.36	0.42
27:AE:259:LYS:CG	27:AE:260:GLN:N	2.79	0.42
28:AC:69:LEU:HD12	28:AC:273:LEU:HD11	1.84	0.42
28:AC:94:ILE:CD1	28:AC:162:ILE:HD13	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AC:102:LEU:CD2	28:AC:102:LEU:C	2.91	0.42
28:AC:164:PRO:HD2	28:AC:164:PRO:O	2.20	0.42
28:AC:189:GLY:O	28:AC:190:SER:OG	2.37	0.42
28:AC:263:LYS:O	28:AC:264:SER:OG	2.33	0.42
29:AG:142:ARG:HG3	29:AG:142:ARG:NH1	2.08	0.42
29:AG:181:THR:HA	29:AG:182:PRO:HD3	1.23	0.42
30:AF:20:PHE:CD2	30:AF:23:TRP:CD1	3.07	0.42
30:AF:38:TYR:HD1	30:AF:144:LEU:HD13	1.84	0.42
30:AF:49:LEU:HD21	34:AQ:46:THR:O	2.19	0.42
31:AH:87:PHE:CD2	31:AH:90:LYS:HD2	2.54	0.42
31:AH:117:PRO:CD	31:AH:120:ARG:HD2	2.49	0.42
33:AI:143:LYS:HE2	33:AI:143:LYS:HB3	1.82	0.42
33:AI:144:LYS:N	33:AI:144:LYS:HD2	2.33	0.42
34:AQ:84:ILE:O	34:AQ:88:ILE:HG23	2.18	0.42
36:B2:731:G:H2'	36:B2:732:U:H5'	2.01	0.42
36:B2:1213:C:H2'	36:B2:1214:A:H5'	2.01	0.42
38:Cz:19:HIS:CD2	38:Cz:22:GLN:HG2	2.55	0.42
38:Cz:41:TYR:CE2	38:Cz:47:LYS:O	2.72	0.42
39:Cq:30:VAL:O	39:Cq:30:VAL:HG23	2.18	0.42
39:Cq:63:LYS:CD	39:Cq:78:LEU:HB3	2.50	0.42
39:Cq:63:LYS:HD3	39:Cq:78:LEU:HB3	2.01	0.42
40:CK:85:LEU:CD1	40:CK:109:ILE:CG2	2.96	0.42
40:CK:161:GLU:CA	40:CK:163:PRO:HD3	2.49	0.42
41:CO:134:LYS:HD3	41:CO:134:LYS:HA	1.81	0.42
43:CV:80:VAL:HG11	43:CV:132:ILE:CD1	2.49	0.42
45:Ca:86:THR:O	45:Ca:89:ASN:CB	2.62	0.42
47:CI:190:LEU:O	47:CI:191:ILE:HG13	2.20	0.42
48:CD:42:ASN:CG	53:CT:67:VAL:C	2.87	0.42
48:CD:58:ARG:HD2	48:CD:58:ARG:HA	1.37	0.42
48:CD:138:GLN:HB3	48:CD:139:PRO:HD2	2.00	0.42
48:CD:207:TYR:CZ	48:CD:211:LEU:CD1	2.99	0.42
50:CR:106:LEU:HG	50:CR:123:LEU:HD23	2.00	0.42
50:CR:144:LYS:HB2	50:CR:144:LYS:HE2	1.69	0.42
52:CS:153:PRO:O	52:CS:153:PRO:HG2	2.14	0.42
54:CP:4:TYR:CZ	54:CP:18:ARG:HB3	2.54	0.42
54:CP:30:ARG:NH1	54:CP:62:ARG:HB3	2.34	0.42
55:CU:48:LYS:HD3	55:CU:51:GLY:O	2.20	0.42
55:CU:57:GLY:O	55:CU:59:GLY:HA3	2.19	0.42
55:CU:101:ARG:O	55:CU:113:ARG:HG2	2.19	0.42
55:CU:105:ASN:HD22	55:CU:111:GLU:CD	2.25	0.42
56:CX:114:LYS:HA	56:CX:119:ILE:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:146:ALA:O	56:CX:149:VAL:HG12	2.19	0.42
58:CW:14:TYR:CD1	63:CB:367:PHE:HZ	2.31	0.42
58:CW:74:ARG:HD3	58:CW:75:ALA:H	1.84	0.42
58:CW:89:ASP:O	58:CW:93:LYS:HG3	2.18	0.42
59:CZ:73:LYS:CB	59:CZ:75:TYR:CE2	3.01	0.42
62:Cb:28:ARG:HD3	62:Cb:29:TYR:N	2.34	0.42
62:Cb:36:ASP:CG	62:Cb:37:PRO:HD2	2.37	0.42
62:Cb:54:LEU:HD23	62:Cb:58:GLN:HG2	2.00	0.42
63:CB:10:ARG:CZ	63:CB:14:LEU:HD11	2.49	0.42
63:CB:25:HIS:NE2	85:A5:4984:C:H5''	2.34	0.42
63:CB:32:PHE:HD2	63:CB:32:PHE:O	2.02	0.42
63:CB:133:TYR:CE1	63:CB:136:LYS:CE	3.02	0.42
63:CB:234:ARG:NH1	63:CB:270:GLY:CA	2.82	0.42
64:CF:67:THR:CG2	64:CF:68:GLU:N	2.82	0.42
64:CF:92:VAL:HG12	64:CF:114:LEU:HD11	2.00	0.42
64:CF:155:TYR:CE1	64:CF:191:ILE:HD11	2.50	0.42
64:CF:156:LYS:HA	74:CC:317:ASN:OD1	2.19	0.42
67:Ce:14:LYS:HB2	67:Ce:17:THR:HG22	2.01	0.42
68:Cf:38:GLU:H	68:Cf:38:GLU:HG3	1.68	0.42
68:Cf:94:ALA:C	68:Cf:96:ALA:H	2.25	0.42
68:Cf:99:HIS:C	68:Cf:100:ARG:O	2.59	0.42
70:Ci:26:HIS:O	70:Ci:28:ARG:N	2.52	0.42
74:CC:9:SER:CB	74:CC:21:ASN:OD1	2.67	0.42
74:CC:28:PHE:CZ	74:CC:131:SER:C	2.98	0.42
74:CC:296:PRO:CG	74:CC:297:GLU:H	2.29	0.42
75:Cm:103:LEU:CD1	75:Cm:121:LEU:HD21	2.49	0.42
76:Cn:5:TRP:CE3	76:Cn:5:TRP:CA	3.01	0.42
80:CH:88:PHE:CE2	80:CH:151:ILE:HB	2.54	0.42
80:CH:128:MET:HE1	80:CH:146:LEU:CD2	2.49	0.42
82:CG:28:VAL:HG13	82:CG:32:PHE:CG	2.53	0.42
82:CG:103:ARG:HE	82:CG:193:LEU:HA	1.84	0.42
85:A5:2256:C:O2'	85:A5:2257:C:C5	2.58	0.42
85:A5:3842:C:H2'	85:A5:3843:C:C5	2.54	0.42
85:A5:5015:G:H1'	85:A5:5034:A:N6	2.34	0.42
86:A7:64:G:C6	86:A7:65:G:C6	3.07	0.42
1:Az:72:SER:CB	1:Az:104:ASP:CB	2.95	0.42
1:Az:129:VAL:HG11	1:Az:181:ILE:HG23	2.00	0.42
1:Az:160:MET:HE2	1:Az:174:LEU:HD21	2.01	0.42
1:Az:517:LEU:O	1:Az:521:VAL:HG23	2.19	0.42
1:Az:766:LYS:HD2	1:Az:766:LYS:N	2.34	0.42
4:AK:40:VAL:HG23	4:AK:44:HIS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AK:49:MET:CB	4:AK:69:TRP:CE2	3.02	0.42
4:AK:52:LEU:HA	4:AK:55:ARG:HD3	2.01	0.42
5:AO:98:ARG:HE	5:AO:134:PRO:HD3	1.84	0.42
6:AX:23:HIS:O	6:AX:24:ASP:C	2.61	0.42
6:AX:62:PRO:HD2	6:AX:63:ASN:H	1.83	0.42
7:AM:35:ILE:HG23	7:AM:36:ARG:H	1.83	0.42
7:AM:76:LEU:N	7:AM:128:PHE:CZ	2.88	0.42
7:AM:104:VAL:CG2	7:AM:105:GLY:N	2.82	0.42
8:AS:129:LEU:HD22	36:B2:1521:C:C5'	2.36	0.42
10:AN:130:LYS:HD3	10:AN:139:TRP:HB3	2.01	0.42
11:AL:8:ARG:O	33:AI:197:PHE:HE1	2.03	0.42
13:AP:10:ARG:O	79:CJ:91:GLU:HG2	2.19	0.42
15:AB:126:ASP:OD1	15:AB:136:ARG:NE	2.52	0.42
23:AD:123:LEU:CD2	23:AD:123:LEU:C	2.93	0.42
23:AD:192:TRP:C	23:AD:194:PRO:N	2.61	0.42
25:Af:97:LYS:HZ3	25:Af:97:LYS:HB3	1.83	0.42
25:Af:110:GLU:HB3	25:Af:111:ASN:H	1.48	0.42
25:Af:136:PHE:O	25:Af:137:ASP:HB2	2.19	0.42
26:AJ:90:GLY:O	26:AJ:96:TYR:HD2	1.77	0.42
26:AJ:91:LYS:O	26:AJ:92:MET:C	2.55	0.42
27:AE:201:HIS:HB2	27:AE:205:PHE:O	2.19	0.42
27:AE:211:LYS:HE3	27:AE:217:SER:OG	2.20	0.42
27:AE:212:ASP:OD1	27:AE:216:ASN:CB	2.35	0.42
29:AG:122:PRO:O	29:AG:126:ASP:HB3	2.19	0.42
30:AF:91:ARG:HD3	34:AQ:46:THR:CG2	2.49	0.42
30:AF:115:ALA:CB	30:AF:177:LEU:CD2	2.96	0.42
32:AW:11:LEU:HA	32:AW:14:ILE:CD1	2.50	0.42
33:AI:140:LYS:HD3	33:AI:141:ARG:H	1.81	0.42
34:AQ:117:ARG:HB2	34:AQ:117:ARG:HE	1.60	0.42
36:B2:352:U:H2'	36:B2:353:C:O4'	2.20	0.42
36:B2:846:G:H8	36:B2:846:G:O5'	2.02	0.42
36:B2:1397:U:H4'	36:B2:1398:G:C5'	2.50	0.42
38:Cz:28:PHE:O	38:Cz:30:GLU:N	2.53	0.42
38:Cz:82:ILE:HG12	38:Cz:83:PRO:N	2.34	0.42
38:Cz:95:LYS:CE	38:Cz:127:GLY:HA3	2.49	0.42
39:Cq:61:MET:HG3	39:Cq:83:ARG:NH1	2.34	0.42
41:CO:149:TYR:CZ	63:CB:96:PRO:O	2.72	0.42
42:CL:164:GLU:H	42:CL:164:GLU:HG2	1.69	0.42
43:CV:30:ASP:HA	43:CV:116:ALA:O	2.18	0.42
43:CV:56:GLY:O	43:CV:57:VAL:C	2.62	0.42
44:CM:20:HIS:HB3	44:CM:45:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:23:GLY:O	45:Ca:24:LYS:HB3	2.18	0.42
47:Cl:185:VAL:HG22	47:Cl:190:LEU:HB2	2.00	0.42
48:CD:114:GLY:C	48:CD:116:ASP:H	2.28	0.42
48:CD:181:PRO:HG3	48:CD:198:HIS:CD2	2.55	0.42
48:CD:223:PHE:C	48:CD:224:SER:HG	2.16	0.42
49:CQ:124:ASP:CB	74:CC:284:MET:HG3	2.49	0.42
49:CQ:187:LYS:HE2	49:CQ:188:ASN:ND2	2.31	0.42
50:CR:56:THR:C	50:CR:57:VAL:HG22	2.38	0.42
50:CR:133:LYS:HE2	50:CR:133:LYS:HB2	1.74	0.42
51:CA:57:PRO:HD2	51:CA:170:ALA:HB3	2.01	0.42
52:CS:141:ALA:CA	52:CS:144:GLN:NE2	2.79	0.42
53:CT:36:LYS:HD3	53:CT:37:GLY:H	1.71	0.42
53:CT:55:LYS:O	53:CT:56:CYS:C	2.61	0.42
53:CT:135:PRO:HB2	64:CF:86:GLU:CB	2.39	0.42
56:CX:57:GLN:HE21	56:CX:57:GLN:HB3	1.42	0.42
57:CY:5:PRO:CD	57:CY:6:PHE:N	2.75	0.42
57:CY:111:LEU:HA	57:CY:115:ARG:CD	2.41	0.42
57:CY:124:LYS:HA	57:CY:127:GLN:HG2	2.00	0.42
61:Ch:4:ILE:HD12	61:Ch:4:ILE:HA	1.77	0.42
61:Ch:77:LYS:C	61:Ch:79:LYS:H	2.27	0.42
62:Cb:6:ASN:ND2	85:A5:4220:A:H5'	2.35	0.42
62:Cb:9:THR:O	62:Cb:12:GLN:HB2	2.19	0.42
63:CB:43:LEU:H	63:CB:43:LEU:CD1	2.33	0.42
63:CB:116:ARG:HD3	63:CB:116:ARG:HA	1.74	0.42
66:Cd:38:PHE:C	66:Cd:40:LYS:H	2.27	0.42
67:Ce:37:LYS:HG3	67:Ce:39:ARG:HH21	1.78	0.42
67:Ce:37:LYS:HG3	67:Ce:37:LYS:O	2.13	0.42
67:Ce:49:PHE:O	67:Ce:50:LYS:C	2.61	0.42
68:Cf:11:PHE:HE1	68:Cf:26:ALA:HB1	1.75	0.42
68:Cf:84:VAL:CG1	68:Cf:85:ARG:N	2.81	0.42
70:Ci:50:PHE:HD1	70:Ci:54:GLU:OE1	2.03	0.42
71:Cj:13:ASN:HD21	85:A5:1618:G:H5''	1.84	0.42
74:CC:140:LYS:HG3	74:CC:245:HIS:HB3	2.02	0.42
74:CC:144:ILE:HG12	74:CC:249:PHE:CE2	2.53	0.42
74:CC:154:VAL:HG12	74:CC:158:VAL:CG2	2.50	0.42
74:CC:337:ARG:HB2	81:CE:50:LEU:HD23	2.01	0.42
77:Cp:35:ALA:C	77:Cp:36:LYS:CG	2.93	0.42
77:Cp:56:HIS:CE1	77:Cp:63:THR:HG1	2.37	0.42
78:Co:13:LYS:HE3	78:Co:81:ARG:HH11	1.84	0.42
81:CE:176:THR:HG23	81:CE:185:PRO:O	2.20	0.42
82:CG:143:VAL:HA	82:CG:146:LEU:HG	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:1824:G:H2'	85:A5:1825:A:C8	2.55	0.42
85:A5:3965:A:N1	85:A5:4047:A:C5	2.88	0.42
85:A5:4271:A:N6	85:A5:4336:A:H61	2.18	0.42
87:A8:122:G:H21	87:A8:128:C:H5	1.66	0.42
1:Az:166:GLU:HG3	1:Az:167:LEU:N	2.35	0.42
1:Az:766:LYS:HG2	1:Az:788:LEU:CD1	2.33	0.42
1:Az:825:PHE:CZ	1:Az:849:PRO:CG	2.96	0.42
2:Ag:171:ASP:O	2:Ag:172:LYS:HB3	2.19	0.42
2:Ag:208:ALA:HA	2:Ag:217:MET:O	2.20	0.42
2:Ag:241:PHE:O	2:Ag:291:TRP:CD1	2.73	0.42
2:Ag:293:ALA:C	2:Ag:294:ASP:CG	2.81	0.42
3:AU:66:ARG:CZ	3:AU:75:LYS:HA	2.49	0.42
5:AO:31:CYS:HB3	5:AO:95:ILE:HG12	1.92	0.42
6:AX:60:LYS:HE2	6:AX:116:PRO:HB3	2.01	0.42
6:AX:129:SER:O	6:AX:133:LEU:HG	2.20	0.42
8:AS:36:VAL:HA	8:AS:40:TYR:HD2	1.84	0.42
8:AS:111:LEU:HD13	8:AS:125:HIS:NE2	2.34	0.42
9:Ad:11:PRO:HG2	36:B2:1618:C:N4	2.34	0.42
10:AN:94:LYS:HE3	10:AN:118:ILE:CD1	2.47	0.42
10:AN:131:THR:O	11:AL:153:LYS:CB	2.66	0.42
13:AP:49:LEU:O	13:AP:50:ARG:CB	2.54	0.42
13:AP:92:SER:OG	13:AP:93:MET:N	2.52	0.42
14:AT:24:LYS:HA	14:AT:24:LYS:HD2	1.70	0.42
14:AT:77:LYS:CE	14:AT:92:PHE:CE2	3.03	0.42
16:AA:106:GLY:O	16:AA:109:THR:O	2.38	0.42
18:AY:56:PHE:HB2	18:AY:58:PHE:HE2	1.81	0.42
18:AY:99:LYS:CE	18:AY:99:LYS:H	2.26	0.42
19:AZ:57:LYS:O	19:AZ:61:GLU:HG3	2.19	0.42
19:AZ:111:ARG:HH11	19:AZ:114:LYS:NZ	2.18	0.42
22:Ac:42:ILE:HG23	22:Ac:43:ILE:H	1.83	0.42
23:AD:6:SER:N	36:B2:1578:U:C5	2.87	0.42
25:Af:146:LEU:HD22	36:B2:1292:C:C4'	2.50	0.42
27:AE:43:PRO:HD3	27:AE:46:ILE:HD12	1.99	0.42
28:AC:73:MET:N	28:AC:73:MET:SD	2.92	0.42
28:AC:192:LEU:C	28:AC:192:LEU:CD1	2.93	0.42
28:AC:255:LEU:CD1	28:AC:255:LEU:N	2.83	0.42
29:AG:143:LYS:CE	29:AG:143:LYS:CA	2.96	0.42
30:AF:112:LEU:CA	30:AF:177:LEU:CD1	2.91	0.42
30:AF:115:ALA:HB3	30:AF:177:LEU:HD22	1.99	0.42
31:AH:51:ILE:HD12	31:AH:176:VAL:HA	2.00	0.42
31:AH:65:PRO:CG	31:AH:68:GLN:CD	2.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:83:LEU:CD1	31:AH:83:LEU:C	2.92	0.42
31:AH:140:VAL:HG21	31:AH:159:ASP:HA	2.01	0.42
31:AH:144:ILE:O	32:AW:52:ILE:N	2.51	0.42
33:AI:110:ARG:HE	33:AI:128:LYS:NZ	2.17	0.42
33:AI:148:LYS:CE	33:AI:152:ARG:HH21	2.32	0.42
34:AQ:21:ALA:HB2	34:AQ:72:VAL:CG2	2.32	0.42
36:B2:24:C:C2'	36:B2:25:A:H5'	2.49	0.42
36:B2:36:U:C2	36:B2:520:A:C2	3.07	0.42
36:B2:378:U:C4	36:B2:379:C:C4	3.08	0.42
36:B2:531:A:C2	36:B2:553:U:O2	2.72	0.42
38:Cz:24:LYS:CD	38:Cz:30:GLU:H	2.33	0.42
38:Cz:41:TYR:HE1	38:Cz:43:PRO:CA	2.28	0.42
39:Cq:55:MET:HE1	39:Cq:86:VAL:C	2.45	0.42
39:Cq:235:ALA:O	39:Cq:238:PRO:HD3	2.20	0.42
39:Cq:256:ASP:O	39:Cq:257:TYR:O	2.37	0.42
39:Cq:260:PRO:C	39:Cq:264:LYS:CG	2.93	0.42
41:CO:88:LEU:HD13	41:CO:99:LEU:CD2	2.45	0.42
41:CO:119:VAL:HG11	41:CO:124:LEU:CD1	2.33	0.42
41:CO:184:ASN:O	41:CO:188:LYS:N	2.53	0.42
42:CL:135:LYS:HG3	42:CL:136:LYS:H	1.84	0.42
45:Ca:36:GLY:HA3	45:Ca:40:HIS:CE1	2.54	0.42
46:CN:10:LEU:O	46:CN:11:TRP:C	2.61	0.42
47:CI:3:ARG:HG2	47:CI:123:GLN:NE2	2.34	0.42
47:CI:48:LEU:O	47:CI:139:ARG:HA	2.20	0.42
48:CD:114:GLY:C	48:CD:116:ASP:N	2.78	0.42
48:CD:258:LYS:HE2	48:CD:258:LYS:HB2	1.66	0.42
49:CQ:15:ARG:HH12	49:CQ:19:LYS:CA	2.33	0.42
49:CQ:149:TYR:O	49:CQ:150:ARG:C	2.62	0.42
50:CR:142:ILE:CA	50:CR:145:LEU:HD21	2.43	0.42
52:CS:43:ARG:O	52:CS:47:PHE:CD2	2.66	0.42
52:CS:95:ARG:CG	52:CS:97:TYR:HE1	2.33	0.42
54:CP:83:TRP:N	54:CP:84:PRO:HD3	2.31	0.42
55:CU:93:LYS:HD2	55:CU:93:LYS:HA	1.76	0.42
58:CW:13:ILE:HD11	58:CW:32:LEU:HA	2.01	0.42
59:CZ:22:LYS:HE3	59:CZ:134:LEU:HB2	2.00	0.42
59:CZ:29:ILE:C	59:CZ:31:ASP:N	2.71	0.42
60:Cr:20:ARG:HB3	67:Ce:77:PHE:HD1	1.81	0.42
60:Cr:70:GLN:HB3	60:Cr:71:ARG:NH2	2.34	0.42
60:Cr:87:ARG:O	60:Cr:88:ALA:C	2.62	0.42
60:Cr:112:ARG:NH2	60:Cr:113:ARG:CD	2.82	0.42
60:Cr:119:ARG:CG	81:CE:112:MET:CE	2.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:21:ARG:HD3	63:CB:274:TYR:CD2	2.53	0.42
63:CB:59:GLU:OE2	63:CB:71:GLU:CA	2.67	0.42
63:CB:80:GLU:CD	63:CB:323:TYR:HH	2.17	0.42
63:CB:276:HIS:O	63:CB:277:ARG:HD3	2.19	0.42
64:CF:243:LEU:CD2	64:CF:243:LEU:C	2.93	0.42
65:Cc:52:CYS:CB	65:Cc:92:CYS:HG	2.29	0.42
66:Cd:36:VAL:CG1	66:Cd:44:ARG:HD2	2.50	0.42
66:Cd:40:LYS:CA	66:Cd:43:PRO:HG2	2.49	0.42
74:CC:218:ILE:CA	74:CC:229:LEU:HD12	2.48	0.42
79:CJ:136:ARG:N	79:CJ:139:PHE:CE2	2.88	0.42
81:CE:106:VAL:CG2	81:CE:108:LYS:H	2.28	0.42
81:CE:286:LEU:HB3	81:CE:287:VAL:CA	2.15	0.42
82:CG:167:VAL:O	82:CG:167:VAL:HG12	2.18	0.42
83:Cs:23:VAL:CG1	83:Cs:28:ILE:HD11	2.48	0.42
84:Cu:3:TYR:CE2	84:Cu:38:ARG:CD	3.02	0.42
84:Cv:19:SER:O	84:Cv:23:ILE:HD12	2.20	0.42
85:A5:1358:G:C6	85:A5:1359:G:C2	3.08	0.42
85:A5:2438:A:C2	85:A5:2441:C:C6	3.08	0.42
85:A5:2468:U:O2	85:A5:2473:A:N1	2.53	0.42
85:A5:2553:A:H5'	85:A5:2554:U:O4'	2.20	0.42
85:A5:2580:U:C4	85:A5:2581:A:C2	3.07	0.42
85:A5:4524:G:H2'	85:A5:4525:C:H6	1.84	0.42
85:A5:4886:C:H42	85:A5:4933:C:H42	1.66	0.42
1:Az:123:ASP:OD2	1:Az:361:PRO:HA	2.20	0.42
1:Az:421:VAL:O	1:Az:421:VAL:HG13	2.20	0.42
1:Az:769:HIS:O	1:Az:786:ALA:HB1	2.18	0.42
2:Ag:42:MET:SD	2:Ag:56:GLN:CB	3.04	0.42
3:AU:77:TRP:CD1	34:AQ:132:PHE:HB2	2.54	0.42
4:AK:31:LYS:HA	4:AK:40:VAL:O	2.20	0.42
4:AK:51:SER:O	4:AK:55:ARG:HG2	2.19	0.42
4:AK:66:HIS:O	4:AK:67:PHE:HB2	2.18	0.42
4:AK:84:HIS:NE2	7:AM:27:ILE:HD11	2.34	0.42
8:AS:77:TYR:O	8:AS:78:LYS:HB2	2.19	0.42
10:AN:24:THR:C	10:AN:26:LEU:N	2.78	0.42
10:AN:53:ILE:O	10:AN:57:SER:OG	2.32	0.42
10:AN:99:ARG:O	10:AN:103:GLU:HG2	2.20	0.42
11:AL:100:ASN:C	11:AL:101:ARG:HG2	2.44	0.42
11:AL:147:LYS:HZ3	11:AL:156:GLN:NE2	2.16	0.42
13:AP:41:GLN:NE2	13:AP:84:ILE:CG1	2.79	0.42
14:AT:44:GLU:H	14:AT:44:GLU:HG2	1.51	0.42
14:AT:78:ILE:CG2	14:AT:79:TYR:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AA:5:LEU:CD1	16:AA:6:ASP:CB	2.97	0.42
16:AA:19:LEU:HD23	16:AA:19:LEU:HA	1.79	0.42
18:AY:55:ILE:HA	18:AY:75:ILE:HG12	2.02	0.42
18:AY:58:PHE:HE1	18:AY:72:PHE:CD2	2.32	0.42
19:AZ:91:LEU:HD21	19:AZ:96:LEU:HD12	1.98	0.42
21:Ab:81:ARG:HB3	21:Ab:82:LYS:CA	2.41	0.42
22:Ac:62:GLU:HB3	22:Ac:63:ARG:H	1.45	0.42
23:AD:25:LEU:HD22	23:AD:25:LEU:N	2.34	0.42
24:Ae:45:VAL:HA	24:Ae:47:PRO:CD	2.49	0.42
25:Af:87:THR:HB	36:B2:1507:G:H22	1.80	0.42
27:AE:53:LYS:HA	27:AE:53:LYS:HD3	1.80	0.42
27:AE:205:PHE:CZ	27:AE:221:ARG:NH1	2.85	0.42
29:AG:25:ARG:HG3	29:AG:28:TYR:CE2	2.47	0.42
30:AF:42:LYS:O	30:AF:45:TYR:N	2.53	0.42
30:AF:45:TYR:O	30:AF:46:ALA:C	2.63	0.42
31:AH:31:GLU:O	31:AH:37:LYS:CB	2.67	0.42
31:AH:146:VAL:HG23	32:AW:50:PHE:CD1	2.52	0.42
32:AW:15:ASN:O	32:AW:19:LYS:HG3	2.20	0.42
32:AW:94:LEU:HA	32:AW:95:PRO:HD3	1.81	0.42
34:AQ:17:LYS:HB3	34:AQ:18:THR:H	1.70	0.42
35:Ah:183:ASP:O	35:Ah:184:GLY:C	2.63	0.42
36:B2:23:G:H1	36:B2:651:U:H3	1.67	0.42
36:B2:1237:C:O4'	36:B2:1237:C:C6	2.72	0.42
36:B2:1451:G:H1'	36:B2:1474:A:N6	2.35	0.42
38:Cz:114:GLU:OE2	38:Cz:137:LEU:HD21	2.19	0.42
39:Cq:40:MET:O	39:Cq:44:ARG:HG2	2.20	0.42
39:Cq:127:ASN:CB	39:Cq:153:GLU:HG2	2.49	0.42
39:Cq:131:GLY:N	40:CK:35:LEU:HD23	2.32	0.42
39:Cq:141:LEU:N	39:Cq:141:LEU:HD22	2.35	0.42
39:Cq:200:ASN:HA	39:Cq:201:PRO:HD2	1.77	0.42
39:Cq:219:VAL:HG21	83:Cs:60:ILE:HG12	2.01	0.42
39:Cq:237:VAL:N	39:Cq:238:PRO:CD	2.65	0.42
40:CK:102:GLY:C	40:CK:140:GLY:N	2.76	0.42
41:CO:37:ARG:CG	41:CO:39:GLU:OE2	2.68	0.42
45:Ca:58:MET:HG2	45:Ca:59:LYS:O	2.19	0.42
45:Ca:125:LYS:HG2	45:Ca:147:VAL:CG2	2.50	0.42
46:CN:58:GLY:O	46:CN:142:ILE:HD11	2.20	0.42
48:CD:42:ASN:OD1	53:CT:67:VAL:HB	2.17	0.42
48:CD:210:TYR:HE1	48:CD:214:GLU:OE2	2.01	0.42
49:CQ:10:ASP:HB2	49:CQ:11:ARG:HG2	2.01	0.42
51:CA:80:GLU:CD	77:Cp:76:ALA:HB2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:105:GLY:HA3	51:CA:160:SER:HB3	2.01	0.42
52:CS:38:VAL:CG1	52:CS:39:VAL:N	2.83	0.42
52:CS:91:HIS:CD2	52:CS:91:HIS:N	2.88	0.42
53:CT:147:GLU:HB2	53:CT:148:PRO:HD2	2.02	0.42
56:CX:81:LEU:CD2	56:CX:129:ARG:NH1	2.81	0.42
58:CW:22:ALA:O	58:CW:23:ARG:C	2.50	0.42
58:CW:119:LYS:HA	58:CW:122:SER:OG	2.20	0.42
59:CZ:48:ARG:NH2	85:A5:2575:U:C4	2.87	0.42
60:Cr:40:TYR:CE1	60:Cr:109:ALA:HB2	2.54	0.42
60:Cr:120:SER:HA	60:Cr:123:PRO:CG	2.50	0.42
62:Cb:50:ASN:C	62:Cb:54:LEU:H	2.28	0.42
63:CB:112:ASP:N	63:CB:115:LYS:H	2.16	0.42
63:CB:203:GLN:HA	63:CB:203:GLN:HE21	1.83	0.42
64:CF:135:ILE:CG2	64:CF:136:VAL:N	2.83	0.42
66:Cd:21:VAL:CB	66:Cd:23:ARG:NH2	2.77	0.42
67:Ce:9:LYS:CD	67:Ce:69:MET:HG2	2.48	0.42
68:Cf:51:TYR:HE2	68:Cf:53:ALA:CB	2.27	0.42
68:Cf:65:ASN:C	68:Cf:67:THR:H	2.28	0.42
69:Cg:50:PRO:HG3	77:Cp:61:MET:HE3	2.01	0.42
70:Ci:1:MET:CB	70:Ci:4:ARG:HE	2.31	0.42
72:Ck:7:GLU:O	72:Ck:8:ILE:C	2.63	0.42
74:CC:63:SER:O	74:CC:80:ARG:NH1	2.53	0.42
74:CC:321:ASN:HD22	74:CC:322:LEU:H	1.67	0.42
74:CC:346:ASN:O	74:CC:347:HIS:C	2.60	0.42
75:Cm:99:CYS:HB2	75:Cm:114:LYS:HD3	2.01	0.42
78:Co:40:ARG:NH2	78:Co:40:ARG:CG	2.80	0.42
79:CJ:146:ARG:HH22	79:CJ:147:ARG:CZ	2.31	0.42
80:CH:15:ASN:CB	80:CH:30:PRO:HD3	2.46	0.42
80:CH:56:ARG:CD	80:CH:58:ASP:OD2	2.67	0.42
80:CH:86:LEU:HD21	80:CH:189:GLN:OE1	2.19	0.42
80:CH:94:SER:OG	80:CH:142:ASP:CG	2.62	0.42
80:CH:137:SER:HB3	80:CH:145:ILE:HD12	2.01	0.42
80:CH:156:ASN:O	80:CH:160:LEU:HG	2.19	0.42
81:CE:212:LEU:CD2	81:CE:216:TYR:CD2	3.02	0.42
81:CE:242:ILE:HG13	81:CE:246:ARG:HD2	1.96	0.42
82:CG:71:TYR:CD1	82:CG:72:LYS:CG	3.03	0.42
83:Ct:40:GLU:O	83:Ct:44:PRO:CD	2.67	0.42
85:A5:1269:G:C8	85:A5:2111:G:N1	2.80	0.42
85:A5:1431:C:H2'	85:A5:1432:G:C5'	2.49	0.42
85:A5:1964:A:O2'	85:A5:4695:C:C2	2.61	0.42
85:A5:2253:A:C8	85:A5:2254:G:H1'	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
87:A8:108:A:H2'	87:A8:109:C:O4'	2.20	0.42
2:Ag:31:ILE:HG23	2:Ag:43:TRP:CD1	2.54	0.42
2:Ag:258:ILE:CD1	2:Ag:267:VAL:HB	2.50	0.42
2:Ag:262:GLU:HA	2:Ag:263:GLY:HA2	1.91	0.42
3:AU:61:LEU:O	3:AU:81:GLN:HA	2.19	0.42
4:AK:37:ASP:CA	4:AK:38:LYS:HD3	2.50	0.42
4:AK:64:TRP:CE3	23:AD:20:GLU:HG2	2.55	0.42
5:AO:28:PHE:CE1	5:AO:92:ALA:CB	3.02	0.42
5:AO:136:PRO:O	5:AO:138:ASP:CA	2.63	0.42
8:AS:46:ARG:NH1	14:AT:50:GLU:CA	2.82	0.42
10:AN:15:ALA:C	21:Ab:26:GLN:HE22	2.28	0.42
10:AN:16:LEU:HD23	10:AN:16:LEU:HA	1.79	0.42
10:AN:38:TYR:CZ	10:AN:78:LYS:CG	3.02	0.42
10:AN:56:ASP:OD1	21:Ab:52:THR:CG2	2.67	0.42
11:AL:22:ARG:CD	33:AI:155:ASN:C	2.62	0.42
11:AL:22:ARG:HG3	33:AI:154:LYS:HZ3	1.85	0.42
11:AL:82:MET:SD	11:AL:85:THR:CG2	3.08	0.42
11:AL:146:THR:CG2	11:AL:147:LYS:N	2.80	0.42
11:AL:151:THR:O	11:AL:152:LYS:C	2.63	0.42
14:AT:5:THR:HG21	14:AT:7:LYS:HB2	2.00	0.42
14:AT:47:PRO:CG	14:AT:52:TRP:CD1	3.02	0.42
15:AB:57:ILE:CA	82:CG:264:LYS:HE3	2.49	0.42
16:AA:57:LYS:NZ	17:AV:70:LEU:HD21	2.35	0.42
16:AA:118:GLU:CD	28:AC:65:LYS:CE	2.86	0.42
16:AA:152:SER:HB3	16:AA:153:PRO:HD2	2.01	0.42
17:AV:29:HIS:HE1	28:AC:86:LEU:C	2.19	0.42
17:AV:64:GLU:O	17:AV:67:ASP:N	2.53	0.42
18:AY:18:LEU:HB3	18:AY:20:ARG:NE	2.33	0.42
18:AY:93:ARG:O	18:AY:93:ARG:CD	2.65	0.42
25:Af:146:LEU:HD22	36:B2:1292:C:H4'	2.02	0.42
27:AE:118:GLU:HA	27:AE:121:TYR:CE2	2.54	0.42
28:AC:63:VAL:HG23	28:AC:90:GLU:HG2	2.01	0.42
28:AC:142:LYS:CD	28:AC:157:LEU:HD11	2.42	0.42
29:AG:177:GLN:O	29:AG:178:ARG:CB	2.68	0.42
29:AG:183:ARG:O	29:AG:187:HIS:CD2	2.73	0.42
32:AW:24:GLN:N	32:AW:24:GLN:OE1	2.53	0.42
32:AW:78:ARG:NE	32:AW:126:LEU:HD23	2.35	0.42
33:AI:33:ALA:HB2	36:B2:378:U:O2'	2.19	0.42
33:AI:93:THR:O	33:AI:94:LYS:HB2	2.20	0.42
33:AI:139:LYS:CD	33:AI:145:ILE:CD1	2.98	0.42
34:AQ:109:LYS:HZ1	34:AQ:113:ILE:CD1	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:1301:A:C2'	36:B2:1302:G:H5''	2.50	0.42
36:B2:1659:U:O2	36:B2:1664:A:N1	2.53	0.42
38:Cz:180:VAL:HG22	38:Cz:184:HIS:CD2	2.54	0.42
39:Cq:260:PRO:C	39:Cq:264:LYS:CB	2.93	0.42
40:CK:39:PRO:CG	40:CK:42:VAL:HB	2.49	0.42
40:CK:88:PRO:CB	40:CK:89:PRO:HB3	2.50	0.42
40:CK:131:GLU:HG2	40:CK:152:ILE:CG2	2.24	0.42
43:CV:106:VAL:HG11	43:CV:110:GLY:CA	2.45	0.42
44:CM:23:LYS:HD3	44:CM:43:THR:HB	2.01	0.42
45:Ca:120:GLN:C	45:Ca:140:VAL:HG12	2.40	0.42
46:CN:159:ARG:HA	46:CN:162:ARG:HH21	1.85	0.42
47:CI:205:PRO:CD	47:CI:206:LEU:N	2.82	0.42
48:CD:258:LYS:HG3	48:CD:259:LYS:N	2.35	0.42
49:CQ:19:LYS:CE	49:CQ:20:SER:HB2	2.49	0.42
49:CQ:23:ILE:HG13	49:CQ:24:TYR:N	2.33	0.42
49:CQ:146:ARG:C	49:CQ:148:VAL:N	2.78	0.42
49:CQ:151:HIS:HE1	49:CQ:164:LYS:CD	2.32	0.42
50:CR:28:GLU:CG	50:CR:49:LEU:HD22	2.32	0.42
50:CR:51:ILE:HG22	50:CR:52:ARG:N	2.35	0.42
51:CA:101:VAL:O	51:CA:101:VAL:HG13	2.19	0.42
52:CS:84:TYR:CZ	52:CS:86:SER:HA	2.54	0.42
52:CS:88:SER:CB	52:CS:89:GLY:CA	2.97	0.42
52:CS:168:THR:HG23	52:CS:170:LYS:N	2.31	0.42
55:CU:60:VAL:O	55:CU:61:VAL:CG1	2.68	0.42
56:CX:119:ILE:CD1	56:CX:140:LEU:HD13	2.50	0.42
59:CZ:11:VAL:CG1	59:CZ:80:LEU:CB	2.53	0.42
60:Cr:49:VAL:HG21	60:Cr:110:ALA:HB2	2.01	0.42
60:Cr:50:GLY:H	60:Cr:64:ILE:HG22	1.81	0.42
60:Cr:72:LYS:N	60:Cr:73:PRO:C	2.77	0.42
60:Cr:78:VAL:CG2	60:Cr:82:ILE:HA	2.46	0.42
62:Cb:23:LYS:CB	62:Cb:24:PRO:CD	2.96	0.42
63:CB:47:LEU:CG	63:CB:166:THR:HG21	2.48	0.42
63:CB:117:ARG:HA	63:CB:117:ARG:HD3	1.80	0.42
63:CB:231:VAL:CG1	63:CB:232:THR:N	2.83	0.42
64:CF:29:LYS:HE2	64:CF:30:ILE:HD12	2.01	0.42
64:CF:95:ILE:HG13	64:CF:139:TYR:C	2.44	0.42
65:Cc:20:LEU:HD21	65:Cc:101:ASP:HB2	1.99	0.42
65:Cc:22:MET:HE1	65:Cc:27:TYR:HD2	1.81	0.42
66:Cd:59:THR:CG2	66:Cd:90:ARG:CG	2.96	0.42
67:Ce:19:LYS:O	67:Ce:20:PHE:HB2	2.19	0.42
68:Cf:25:THR:HG22	68:Cf:26:ALA:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:75:ARG:O	74:CC:76:ILE:C	2.61	0.42
75:Cm:112:LYS:HA	75:Cm:112:LYS:HD2	1.45	0.42
77:Cp:27:LYS:CE	77:Cp:27:LYS:O	2.68	0.42
77:Cp:28:LYS:CD	77:Cp:28:LYS:C	2.92	0.42
77:Cp:85:ARG:HH12	77:Cp:89:LEU:HD13	1.84	0.42
78:Co:74:GLU:HB2	78:Co:75:PRO:CD	2.40	0.42
79:CJ:135:GLY:CA	79:CJ:157:ILE:CD1	2.84	0.42
79:CJ:139:PHE:HA	79:CJ:151:ILE:HD11	2.00	0.42
80:CH:79:ASN:CA	80:CH:82:LYS:HG3	2.42	0.42
81:CE:103:GLY:HA2	85:A5:688:U:C5'	2.50	0.42
81:CE:248:ILE:CG2	81:CE:249:ASP:N	2.82	0.42
82:CG:82:GLN:CG	82:CG:233:ILE:HG22	2.38	0.42
82:CG:143:VAL:HG22	82:CG:146:LEU:HD21	2.02	0.42
82:CG:250:ILE:CG2	82:CG:251:ALA:N	2.82	0.42
82:CG:259:LYS:HA	82:CG:259:LYS:HZ3	1.85	0.42
82:CG:259:LYS:HZ2	82:CG:259:LYS:HG3	1.57	0.42
84:Cu:55:ILE:HG22	84:Cu:55:ILE:O	2.19	0.42
85:A5:78:U:C2	85:A5:336:A:C2	3.07	0.42
85:A5:2256:C:HO2'	85:A5:2257:C:H5	1.51	0.42
85:A5:4320:G:H2'	85:A5:4321:U:C6	2.55	0.42
85:A5:4748:U:H2'	85:A5:4749:C:C5'	2.50	0.42
86:A7:15:C:H2'	86:A7:16:A:C8	2.54	0.42
86:A7:38:U:N3	86:A7:40:U:H5''	2.35	0.42
1:Az:32:LYS:NZ	1:Az:105:SER:O	2.48	0.42
1:Az:568:ILE:HG22	1:Az:569:PRO:N	2.34	0.42
4:AK:4:PRO:HD2	4:AK:44:HIS:CE1	2.55	0.42
4:AK:14:LEU:HB2	4:AK:35:LEU:HD21	2.02	0.42
5:AO:143:LYS:HG3	5:AO:144:GLY:N	2.34	0.42
8:AS:7:GLU:OE2	8:AS:7:GLU:HA	2.16	0.42
8:AS:10:GLN:NE2	8:AS:57:GLY:O	2.44	0.42
10:AN:114:ARG:HD3	10:AN:114:ARG:HA	1.45	0.42
11:AL:52:GLU:CD	11:AL:52:GLU:C	2.88	0.42
13:AP:41:GLN:HE21	13:AP:84:ILE:CG1	2.22	0.42
15:AB:71:LEU:C	15:AB:79:VAL:CG2	2.93	0.42
15:AB:188:LEU:HD22	15:AB:212:VAL:CG2	2.49	0.42
16:AA:124:VAL:CG1	16:AA:130:ASP:HB2	2.50	0.42
17:AV:16:LYS:O	17:AV:17:CYS:C	2.63	0.42
17:AV:40:ASP:O	17:AV:42:VAL:CG2	2.63	0.42
18:AY:18:LEU:C	18:AY:19:GLN:OE1	2.63	0.42
18:AY:32:LYS:CG	18:AY:33:ALA:O	2.62	0.42
18:AY:87:PRO:HB2	18:AY:89:HIS:ND1	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:62:VAL:HA	19:AZ:65:TYR:CZ	2.54	0.42
20:Aa:75:VAL:HG12	20:Aa:79:ILE:CD1	2.50	0.42
21:Ab:82:LYS:C	21:Ab:83:GLN:NE2	2.72	0.42
23:AD:6:SER:OG	23:AD:8:LYS:HG3	2.19	0.42
23:AD:79:PHE:CG	23:AD:84:VAL:HB	2.55	0.42
23:AD:132:LYS:CB	23:AD:191:PRO:CD	2.90	0.42
24:Ae:31:ARG:O	24:Ae:35:ARG:HG2	2.19	0.42
24:Ae:45:VAL:O	24:Ae:45:VAL:HG12	2.19	0.42
25:Af:107:LYS:HE2	25:Af:107:LYS:HB2	1.83	0.42
25:Af:136:PHE:HD1	25:Af:137:ASP:H	1.67	0.42
26:AJ:37:LEU:CD2	26:AJ:43:VAL:N	2.79	0.42
26:AJ:83:ARG:HG3	26:AJ:83:ARG:H	1.58	0.42
26:AJ:127:ARG:CG	26:AJ:127:ARG:NH1	2.38	0.42
27:AE:231:GLY:C	27:AE:233:LYS:H	2.28	0.42
28:AC:110:MET:HA	28:AC:111:PRO:HD3	1.82	0.42
28:AC:185:THR:O	28:AC:246:LYS:HD3	2.19	0.42
29:AG:26:THR:HG21	29:AG:40:ALA:HB1	2.02	0.42
29:AG:70:HIS:CD2	29:AG:103:ASP:OD2	2.73	0.42
29:AG:131:ARG:HG2	58:CW:80:ARG:HB3	2.02	0.42
31:AH:103:LYS:O	31:AH:103:LYS:HG3	2.18	0.42
32:AW:42:MET:CE	32:AW:50:PHE:HD2	2.10	0.42
34:AQ:8:GLN:CB	34:AQ:99:TYR:CD1	2.95	0.42
35:Ah:183:ASP:O	35:Ah:186:ASP:HB2	2.19	0.42
36:B2:99:A:H61	36:B2:433:A:H1'	1.85	0.42
36:B2:183:G:C6	36:B2:184:G:C6	3.07	0.42
36:B2:338:G:H2'	36:B2:339:A:C8	2.55	0.42
36:B2:1129:G:C6	36:B2:1130:G:C6	3.08	0.42
38:Cz:19:HIS:NE2	38:Cz:22:GLN:HG3	2.35	0.42
38:Cz:68:LEU:HB3	38:Cz:116:LEU:CD2	2.50	0.42
38:Cz:82:ILE:CG1	38:Cz:83:PRO:HD2	2.45	0.42
38:Cz:123:ILE:N	38:Cz:123:ILE:CD1	2.83	0.42
38:Cz:144:MET:CG	38:Cz:145:VAL:N	2.82	0.42
38:Cz:160:LYS:HE2	38:Cz:160:LYS:CA	2.49	0.42
39:Cq:66:ARG:CG	39:Cq:69:LEU:CD2	2.82	0.42
39:Cq:81:HIS:CD2	39:Cq:191:GLN:HB2	2.50	0.42
39:Cq:95:LEU:HD12	39:Cq:96:THR:CA	2.50	0.42
40:CK:80:LEU:HD23	40:CK:83:LYS:HD2	2.02	0.42
40:CK:110:VAL:O	40:CK:110:VAL:CG1	2.67	0.42
41:CO:16:LEU:HD11	41:CO:43:ILE:HD11	1.78	0.42
41:CO:119:VAL:CG1	41:CO:120:VAL:H	2.32	0.42
41:CO:188:LYS:HZ3	41:CO:189:ILE:N	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:43:THR:OG1	46:CN:131:GLU:CD	2.63	0.42
47:CI:199:TYR:HA	47:CI:200:VAL:HG23	2.00	0.42
48:CD:12:TYR:O	48:CD:13:PHE:C	2.61	0.42
48:CD:152:ARG:CB	79:CJ:145:LYS:NZ	2.77	0.42
50:CR:24:LEU:HD23	50:CR:24:LEU:HA	1.77	0.42
52:CS:9:GLU:HB3	52:CS:67:VAL:HG12	2.01	0.42
52:CS:17:LEU:HB2	52:CS:18:PRO:HD2	2.01	0.42
54:CP:71:ALA:CB	54:CP:74:LYS:CE	2.87	0.42
55:CU:27:HIS:HB3	55:CU:28:PRO:HD3	2.01	0.42
56:CX:57:GLN:O	56:CX:58:PRO:C	2.59	0.42
56:CX:62:ARG:NH1	87:A8:135:C:H4'	2.30	0.42
57:CY:66:GLN:N	57:CY:67:ILE:HG13	2.34	0.42
57:CY:86:GLN:OE1	57:CY:86:GLN:C	2.62	0.42
59:CZ:33:THR:CB	59:CZ:36:ARG:H	2.24	0.42
59:CZ:68:ILE:HG22	59:CZ:119:GLU:HG2	1.96	0.42
61:Ch:74:LYS:HD2	61:Ch:75:GLY:CA	2.49	0.42
61:Ch:109:ARG:HH12	61:Ch:110:LYS:HG3	1.85	0.42
62:Cb:47:LYS:HE2	62:Cb:47:LYS:HB3	1.65	0.42
63:CB:81:THR:HG21	63:CB:207:VAL:HG11	2.01	0.42
63:CB:89:ILE:HG21	63:CB:197:ALA:CB	2.50	0.42
63:CB:282:LYS:O	63:CB:333:LEU:HD11	2.20	0.42
64:CF:199:LYS:H	64:CF:199:LYS:HG2	1.49	0.42
66:Cd:59:THR:OG1	66:Cd:90:ARG:HG3	2.20	0.42
68:Cf:65:ASN:C	68:Cf:67:THR:N	2.76	0.42
68:Cf:106:TYR:CB	68:Cf:107:PRO:HA	2.35	0.42
69:Cg:42:PRO:O	69:Cg:53:LEU:HD12	2.20	0.42
74:CC:46:LYS:HZ2	74:CC:113:ARG:HH11	1.68	0.42
74:CC:147:VAL:CA	74:CC:175:LYS:HG3	2.34	0.42
74:CC:232:VAL:O	74:CC:263:LEU:HD13	2.14	0.42
81:CE:45:SER:O	81:CE:50:LEU:C	2.63	0.42
81:CE:138:ARG:NH2	81:CE:171:GLY:HA2	2.35	0.42
81:CE:152:ILE:HG22	81:CE:160:LYS:H	1.83	0.42
82:CG:62:ARG:CG	82:CG:63:LEU:HD23	2.50	0.42
82:CG:263:THR:CG2	82:CG:264:LYS:N	2.83	0.42
84:Cu:24:LYS:CG	84:Cu:39:LEU:HD13	2.50	0.42
85:A5:973:G:N2	85:A5:1282:G:C8	2.88	0.42
85:A5:1215:C:C5	85:A5:1216:C:C5	3.08	0.42
85:A5:1906:U:C2'	85:A5:1907:A:H5''	2.49	0.42
85:A5:4543:G:C6	85:A5:4544:A:C6	3.08	0.42
85:A5:4751:G:C2'	85:A5:4752:U:H5'	2.50	0.42
86:A7:1:G:H2'	86:A7:2:U:H6	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:125:ALA:O	1:Az:154:VAL:CG1	2.50	0.42
1:Az:390:PRO:HD3	1:Az:466:CYS:SG	2.60	0.42
1:Az:845:LYS:HZ1	1:Az:845:LYS:C	2.26	0.42
2:Ag:55:PRO:N	34:AQ:102:GLU:OE1	2.30	0.42
2:Ag:88:ARG:HG2	2:Ag:97:THR:CG2	2.49	0.42
2:Ag:131:LEU:CD2	2:Ag:132:TRP:N	2.83	0.42
4:AK:16:PHE:CZ	4:AK:76:ILE:O	2.73	0.42
5:AO:129:ILE:HG13	20:Aa:65:PRO:HD3	1.99	0.42
6:AX:32:LEU:O	6:AX:37:LYS:NZ	2.52	0.42
10:AN:64:ARG:HH22	36:B2:918:U:H5'	1.84	0.42
14:AT:11:GLN:CD	14:AT:62:ARG:CD	2.93	0.42
14:AT:37:VAL:HG12	14:AT:39:LEU:N	2.35	0.42
16:AA:18:PHE:HZ	16:AA:55:TRP:CZ3	2.37	0.42
17:AV:15:ARG:NH2	28:AC:83:LEU:O	2.52	0.42
18:AY:7:ILE:HD11	18:AY:43:LYS:HD2	1.97	0.42
18:AY:21:LYS:CE	18:AY:77:ASP:OD1	2.48	0.42
18:AY:54:VAL:HG23	18:AY:79:LEU:CD2	2.43	0.42
19:AZ:103:HIS:HB2	30:AF:95:HIS:NE2	2.35	0.42
26:AJ:79:ARG:CD	26:AJ:83:ARG:HD2	2.49	0.42
27:AE:48:LEU:HA	27:AE:48:LEU:HD12	1.82	0.42
27:AE:123:LEU:HD12	27:AE:123:LEU:HA	1.77	0.42
27:AE:166:THR:HB	27:AE:168:LYS:HZ3	1.82	0.42
29:AG:78:SER:OG	29:AG:81:HIS:NE2	2.52	0.42
29:AG:170:ARG:CD	29:AG:171:THR:O	2.67	0.42
30:AF:44:LYS:HA	30:AF:44:LYS:HD2	1.56	0.42
31:AH:115:LYS:O	31:AH:116:ARG:CB	2.50	0.42
32:AW:11:LEU:CA	32:AW:14:ILE:HG12	2.49	0.42
33:AI:55:TYR:CE2	36:B2:305:U:O2	2.73	0.42
33:AI:108:PRO:C	33:AI:111:GLN:HG2	2.44	0.42
34:AQ:7:LEU:O	34:AQ:8:GLN:C	2.60	0.42
34:AQ:42:ILE:O	34:AQ:43:GLU:C	2.63	0.42
36:B2:488:U:H5'	36:B2:489:A:H5'	2.01	0.42
36:B2:1542:C:C5	36:B2:1543:U:C5	3.08	0.42
38:Cz:34:LEU:C	38:Cz:34:LEU:CD2	2.93	0.42
39:Cq:61:MET:SD	39:Cq:82:ILE:CG1	3.06	0.42
39:Cq:66:ARG:O	39:Cq:69:LEU:CB	2.54	0.42
39:Cq:95:LEU:HB2	39:Cq:204:LEU:HD22	1.89	0.42
40:CK:29:ALA:N	40:CK:30:PRO:HD2	2.35	0.42
40:CK:39:PRO:CB	40:CK:42:VAL:HB	2.50	0.42
40:CK:58:ILE:O	40:CK:59:THR:CG2	2.68	0.42
41:CO:122:ALA:HA	52:CS:161:ARG:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CL:31:ARG:CA	42:CL:31:ARG:NE	2.83	0.42
42:CL:191:LEU:O	42:CL:194:ILE:HB	2.19	0.42
43:CV:51:ARG:HG3	43:CV:51:ARG:HH21	1.85	0.42
43:CV:91:LYS:NZ	63:CB:67:VAL:HG21	2.31	0.42
44:CM:23:LYS:CD	44:CM:43:THR:HB	2.49	0.42
46:CN:45:PRO:HG2	82:CG:166:LEU:CD2	2.42	0.42
48:CD:41:LYS:HG3	53:CT:93:ILE:HD11	1.92	0.42
48:CD:83:LEU:HD23	48:CD:104:LEU:HD11	2.02	0.42
48:CD:91:GLY:O	48:CD:94:ASN:CG	2.63	0.42
48:CD:253:TYR:C	48:CD:254:GLU:OE2	2.63	0.42
50:CR:106:LEU:HD11	50:CR:138:LEU:HD13	2.02	0.42
51:CA:80:GLU:OE2	77:Cp:73:THR:CB	2.67	0.42
52:CS:12:VAL:CG1	52:CS:44:PHE:CD1	3.03	0.42
52:CS:17:LEU:CB	52:CS:18:PRO:CD	2.96	0.42
52:CS:74:ARG:CB	52:CS:76:LYS:NZ	2.62	0.42
52:CS:164:LYS:CE	52:CS:164:LYS:HA	2.40	0.42
54:CP:53:LEU:HA	54:CP:53:LEU:HD22	1.79	0.42
56:CX:43:SER:C	82:CG:51:LEU:HD12	2.45	0.42
57:CY:69:LYS:HE2	57:CY:69:LYS:HB3	1.67	0.42
57:CY:85:VAL:HG11	57:CY:99:ILE:HD11	2.02	0.42
60:Cr:71:ARG:HB2	60:Cr:73:PRO:C	2.45	0.42
63:CB:80:GLU:CG	63:CB:171:LEU:HD13	2.49	0.42
63:CB:115:LYS:NZ	63:CB:122:TRP:HZ3	1.97	0.42
63:CB:139:ASP:O	63:CB:141:ASP:HB2	2.20	0.42
63:CB:167:GLN:HE22	63:CB:204:GLN:HG2	1.84	0.42
63:CB:282:LYS:CB	63:CB:333:LEU:CD1	2.90	0.42
64:CF:213:LEU:CD1	64:CF:244:ILE:HD12	2.50	0.42
64:CF:243:LEU:CD2	64:CF:247:MET:SD	3.07	0.42
65:Cc:22:MET:HE1	65:Cc:27:TYR:CG	2.54	0.42
65:Cc:58:SER:CA	65:Cc:61:GLU:CD	2.73	0.42
68:Cf:9:ALA:O	68:Cf:100:ARG:HG2	2.20	0.42
68:Cf:50:VAL:HG21	68:Cf:102:ARG:CZ	2.50	0.42
73:Cl:45:ARG:HA	73:Cl:45:ARG:HD2	1.77	0.42
73:Cl:48:LYS:HA	73:Cl:48:LYS:HD2	1.68	0.42
74:CC:100:ARG:HD2	74:CC:101:MET:O	2.20	0.42
74:CC:323:ARG:HG3	74:CC:327:LYS:HB2	2.01	0.42
81:CE:208:ILE:C	81:CE:210:LYS:N	2.78	0.42
81:CE:239:LYS:HD2	85:A5:4939:C:H5	1.68	0.42
81:CE:256:GLN:HE21	81:CE:256:GLN:HB3	1.47	0.42
81:CE:287:VAL:C	81:CE:288:PHE:O	2.58	0.42
82:CG:34:LYS:O	82:CG:34:LYS:NZ	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:290:U:O2'	85:A5:291:U:H5'	2.20	0.42
85:A5:425:U:H3	87:A8:9:A:H61	1.67	0.42
85:A5:481:G:C6	85:A5:482:G:C5	3.07	0.42
85:A5:1290:G:H1'	85:A5:4942:C:C4	2.55	0.42
87:A8:89:U:H2'	87:A8:90:C:C6	2.55	0.42
1:Az:226:LYS:CE	1:Az:356:ILE:CD1	2.97	0.41
1:Az:267:ASP:OD1	1:Az:268:PRO:CD	2.68	0.41
2:Ag:32:LEU:HD23	2:Ag:69:VAL:CG2	2.50	0.41
4:AK:9:ILE:CG2	4:AK:10:ALA:N	2.82	0.41
4:AK:49:MET:HB3	4:AK:69:TRP:CE2	2.55	0.41
6:AX:1:MET:SD	6:AX:1:MET:N	2.80	0.41
6:AX:5:ARG:HH21	6:AX:5:ARG:HB3	1.77	0.41
6:AX:20:GLN:O	6:AX:21:LYS:C	2.62	0.41
10:AN:27:LYS:H	10:AN:27:LYS:HE3	1.71	0.41
10:AN:36:GLN:O	10:AN:40:LEU:HG	2.19	0.41
10:AN:139:TRP:C	10:AN:139:TRP:HE3	2.27	0.41
11:AL:134:LEU:C	11:AL:134:LEU:CD2	2.93	0.41
12:AR:21:TYR:CG	12:AR:71:ILE:CD1	2.98	0.41
14:AT:40:ALA:O	14:AT:43:LYS:HG2	2.20	0.41
16:AA:49:ILE:HG22	16:AA:50:ASN:N	2.35	0.41
16:AA:102:ARG:O	16:AA:103:PHE:C	2.63	0.41
18:AY:78:SER:C	18:AY:80:ASP:N	2.75	0.41
18:AY:120:THR:HG22	36:B2:151:C:OP1	2.20	0.41
21:Ab:25:VAL:HG21	32:AW:53:ILE:CG2	2.48	0.41
23:AD:164:VAL:CG1	23:AD:165:ASN:N	2.83	0.41
27:AE:174:LYS:HB2	27:AE:174:LYS:HE3	1.87	0.41
28:AC:253:PRO:HA	28:AC:256:TRP:NE1	2.35	0.41
29:AG:210:ALA:O	29:AG:213:LEU:CD1	2.68	0.41
30:AF:154:LEU:HD12	30:AF:155:CYS:SG	2.58	0.41
33:AI:42:ARG:C	33:AI:43:ILE:HG13	2.44	0.41
34:AQ:9:SER:HA	34:AQ:26:LYS:HG3	1.98	0.41
36:B2:210:U:H2'	36:B2:211:G:O5'	2.19	0.41
36:B2:747:U:H3	36:B2:794:A:H61	1.68	0.41
36:B2:1462:U:H3'	36:B2:1463:U:H5'	2.02	0.41
36:B2:1586:U:H3'	36:B2:1587:G:C5'	2.49	0.41
38:Cz:32:VAL:CG1	38:Cz:169:VAL:CG2	2.98	0.41
38:Cz:167:VAL:CG2	38:Cz:168:ALA:N	2.83	0.41
39:Cq:55:MET:HE1	39:Cq:86:VAL:O	2.20	0.41
41:CO:2:ALA:N	68:Cf:100:ARG:HH21	2.18	0.41
41:CO:4:VAL:HG11	41:CO:7:LEU:HD23	2.02	0.41
41:CO:27:VAL:HG11	41:CO:98:ALA:O	2.15	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CO:125:LYS:NZ	41:CO:135:PHE:CZ	2.83	0.41
41:CO:172:LYS:HB3	41:CO:172:LYS:HE2	1.94	0.41
42:CL:36:ARG:HH22	85:A5:1363:C:H41	1.66	0.41
42:CL:48:PRO:HB3	42:CL:144:LEU:HD21	2.02	0.41
42:CL:88:LYS:H	42:CL:88:LYS:HG2	1.67	0.41
43:CV:82:ILE:O	43:CV:83:ARG:HG3	2.19	0.41
44:CM:70:GLN:O	44:CM:72:TYR:N	2.53	0.41
46:CN:149:GLN:O	46:CN:152:THR:N	2.43	0.41
47:CI:175:LYS:CA	47:CI:176:PHE:CD1	3.03	0.41
52:CS:35:PRO:HB2	52:CS:36:ASN:CG	2.44	0.41
52:CS:70:LYS:HB2	52:CS:70:LYS:HE3	1.81	0.41
52:CS:124:ILE:HG22	52:CS:125:GLN:N	2.35	0.41
53:CT:91:VAL:HG12	53:CT:96:ILE:HD11	2.02	0.41
55:CU:60:VAL:O	55:CU:74:SER:CA	2.67	0.41
56:CX:77:ILE:HA	56:CX:100:VAL:CG2	2.35	0.41
57:CY:34:LEU:HD12	57:CY:106:ILE:O	2.20	0.41
59:CZ:64:LYS:O	59:CZ:67:LYS:HG2	2.20	0.41
60:Cr:32:LEU:HD22	60:Cr:113:ARG:HD3	2.01	0.41
60:Cr:54:ALA:HB1	60:Cr:57:GLY:CA	2.50	0.41
60:Cr:78:VAL:HB	60:Cr:81:THR:CA	2.48	0.41
63:CB:37:PRO:O	63:CB:38:SER:HB3	2.19	0.41
63:CB:56:ILE:HD12	63:CB:368:ILE:HA	2.02	0.41
63:CB:85:VAL:CG1	63:CB:165:HIS:CE1	3.03	0.41
63:CB:168:MET:HE1	63:CB:171:LEU:HB2	1.94	0.41
63:CB:226:LYS:HB2	63:CB:272:LYS:O	2.20	0.41
64:CF:20:LYS:HE2	64:CF:21:LYS:CD	2.49	0.41
64:CF:47:ARG:NH2	74:CC:327:LYS:O	2.53	0.41
64:CF:161:LYS:HB3	64:CF:161:LYS:HE2	1.88	0.41
68:Cf:22:ARG:HG3	68:Cf:22:ARG:NH1	2.33	0.41
68:Cf:39:THR:CG2	68:Cf:77:ALA:HB2	2.49	0.41
68:Cf:51:TYR:CE2	68:Cf:68:ARG:HD2	2.54	0.41
69:Cg:37:LYS:HB2	69:Cg:60:ARG:NH2	2.31	0.41
69:Cg:106:VAL:CG1	69:Cg:107:LEU:N	2.83	0.41
70:Ci:25:ARG:O	70:Ci:28:ARG:HG3	2.16	0.41
72:Ck:6:GLU:O	72:Ck:45:LEU:HD13	2.20	0.41
72:Ck:12:LEU:HB3	72:Ck:16:ARG:NH1	2.35	0.41
74:CC:47:ASN:CA	74:CC:112:HIS:ND1	2.77	0.41
74:CC:223:ASN:HD21	85:A5:225:G:H3'	1.84	0.41
77:Cp:71:TYR:CE2	77:Cp:72:ASN:ND2	2.88	0.41
79:CJ:32:ARG:HG3	79:CJ:35:ARG:NH2	2.31	0.41
80:CH:9:THR:HG21	80:CH:54:ARG:NH1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:CE:70:LYS:CA	81:CE:72:LYS:HE3	2.49	0.41
81:CE:126:LEU:CD1	81:CE:127:SER:N	2.83	0.41
81:CE:192:LYS:HD2	81:CE:192:LYS:HA	1.83	0.41
82:CG:253:LEU:C	82:CG:253:LEU:CD2	2.93	0.41
83:Ct:39:VAL:HG12	83:Ct:40:GLU:N	2.35	0.41
85:A5:1303:A:H2'	85:A5:1304:C:H5''	2.01	0.41
85:A5:1398:A:C2	85:A5:1399:G:H1'	2.55	0.41
85:A5:2670:C:H2'	85:A5:2671:C:H6	1.85	0.41
85:A5:4754:G:H2'	85:A5:4755:G:O4'	2.20	0.41
85:A5:4941:G:O2'	85:A5:4942:C:C5'	2.67	0.41
1:Az:132:VAL:CG2	1:Az:133:SER:N	2.83	0.41
1:Az:650:TRP:CH2	1:Az:672:LEU:HD11	2.52	0.41
1:Az:700:VAL:HG11	1:Az:702:PHE:CZ	2.55	0.41
1:Az:740:LEU:HD13	1:Az:740:LEU:C	2.44	0.41
2:Ag:83:TRP:CZ3	12:AR:33:ARG:NH2	2.86	0.41
3:AU:19:ARG:CG	3:AU:92:HIS:HE1	2.30	0.41
3:AU:37:ALA:O	3:AU:41:ARG:HG3	2.20	0.41
3:AU:48:LEU:O	3:AU:49:LYS:CB	2.66	0.41
3:AU:68:THR:HB	3:AU:70:CYS:C	2.45	0.41
4:AK:14:LEU:CD2	4:AK:35:LEU:HD11	2.49	0.41
5:AO:17:LEU:HD21	15:AB:30:TRP:CD1	2.55	0.41
5:AO:137:SER:HB2	36:B2:942:G:H21	1.85	0.41
7:AM:43:ASP:O	7:AM:44:LYS:HG3	2.20	0.41
7:AM:84:LYS:HB3	7:AM:88:TRP:CZ2	2.55	0.41
7:AM:116:LYS:CD	35:Ah:293:TRP:HZ3	2.33	0.41
10:AN:60:VAL:CG2	10:AN:60:VAL:O	2.66	0.41
11:AL:22:ARG:NH1	33:AI:157:LYS:HG2	2.34	0.41
11:AL:40:ILE:CG2	11:AL:41:GLY:N	2.83	0.41
11:AL:42:LEU:HB2	11:AL:44:PHE:CD2	2.54	0.41
13:AP:67:ALA:HB2	13:AP:73:PRO:CG	2.50	0.41
14:AT:40:ALA:CA	14:AT:43:LYS:CG	2.97	0.41
20:Aa:37:LYS:HG2	20:Aa:72:HIS:ND1	2.35	0.41
20:Aa:98:PRO:HA	20:Aa:99:PRO:HD3	1.65	0.41
21:Ab:32:PHE:CE1	21:Ab:47:PHE:CD1	3.09	0.41
26:AJ:50:LEU:HD12	26:AJ:102:ILE:HG12	2.02	0.41
26:AJ:54:ARG:HH22	28:AC:201:GLY:CA	2.33	0.41
28:AC:69:LEU:HB3	28:AC:75:ILE:HG13	2.02	0.41
28:AC:147:VAL:CG2	35:Ah:183:ASP:OD2	2.68	0.41
32:AW:17:ALA:CB	32:AW:25:VAL:HG11	2.45	0.41
33:AI:191:GLU:CA	33:AI:195:LEU:HB2	2.50	0.41
34:AQ:13:PHE:CE2	36:B2:1397:U:N3	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:185:G:C6	36:B2:186:C:C4	3.08	0.41
36:B2:319:C:H2'	36:B2:320:G:C8	2.55	0.41
36:B2:1411:G:O6	36:B2:1412:C:C4	2.73	0.41
36:B2:1473:G:H21	36:B2:1475:G:H2'	1.85	0.41
36:B2:1823:A:H4'	36:B2:1824:A:H1'	2.02	0.41
38:Cz:26:ARG:HA	38:Cz:26:ARG:HD2	1.52	0.41
39:Cq:133:GLU:C	39:Cq:134:LYS:HD2	2.45	0.41
39:Cq:226:CYS:SG	84:Cu:4:VAL:HG11	2.61	0.41
39:Cq:248:VAL:HA	84:Cv:8:LEU:CD1	2.40	0.41
40:CK:73:VAL:HG12	40:CK:74:VAL:N	2.34	0.41
40:CK:102:GLY:C	40:CK:139:VAL:HG12	2.45	0.41
41:CO:26:GLN:HB3	41:CO:31:ARG:HB3	2.01	0.41
41:CO:125:LYS:CE	41:CO:135:PHE:CE2	2.93	0.41
41:CO:177:LEU:HD22	44:CM:130:LEU:HD11	2.01	0.41
45:Ca:84:GLU:CB	45:Ca:87:ARG:CG	2.94	0.41
46:CN:64:ILE:CD1	46:CN:102:ALA:HB1	2.35	0.41
46:CN:188:ARG:HG3	46:CN:189:ARG:N	2.30	0.41
47:CI:206:LEU:HG	48:CD:287:PHE:HE2	1.85	0.41
48:CD:22:ARG:NH2	86:A7:6:C:C6	2.87	0.41
48:CD:130:TYR:CZ	48:CD:132:VAL:HG22	2.54	0.41
49:CQ:25:LEU:CD1	49:CQ:28:LEU:HD11	2.50	0.41
49:CQ:32:TYR:HE1	49:CQ:47:VAL:HB	1.54	0.41
50:CR:42:ARG:O	50:CR:45:ILE:HG22	2.19	0.41
51:CA:6:ARG:CZ	51:CA:198:ARG:HG3	2.50	0.41
52:CS:19:THR:OG1	52:CS:20:PRO:HG2	2.15	0.41
52:CS:48:VAL:CG1	52:CS:49:SER:N	2.83	0.41
52:CS:106:VAL:HG12	52:CS:110:TYR:CE2	2.55	0.41
53:CT:137:GLU:O	64:CF:85:ALA:CB	2.68	0.41
53:CT:139:HIS:O	64:CF:83:VAL:N	2.36	0.41
55:CU:63:ILE:CD1	55:CU:72:VAL:HG13	2.50	0.41
57:CY:58:VAL:O	57:CY:63:LYS:CG	2.69	0.41
58:CW:19:ARG:HH21	85:A5:4630:G:H5'	1.85	0.41
60:Cr:16:PHE:CE2	60:Cr:28:GLU:CD	2.98	0.41
60:Cr:50:GLY:O	60:Cr:64:ILE:HG22	2.19	0.41
60:Cr:56:ASP:HB2	60:Cr:57:GLY:H	1.47	0.41
60:Cr:78:VAL:O	60:Cr:79:ARG:C	2.61	0.41
61:Ch:9:LEU:HA	61:Ch:12:LYS:CE	2.48	0.41
63:CB:108:GLU:OE2	63:CB:137:TRP:HB3	2.20	0.41
63:CB:316:PRO:CD	63:CB:320:PHE:CZ	3.03	0.41
67:Ce:28:TYR:O	67:Ce:29:VAL:C	2.61	0.41
68:Cf:14:TYR:CD1	68:Cf:23:GLU:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:Cg:45:ALA:O	69:Cg:46:CYS:C	2.55	0.41
69:Cg:68:SER:C	69:Cg:72:LYS:CE	2.93	0.41
69:Cg:107:LEU:C	69:Cg:107:LEU:CD2	2.93	0.41
74:CC:54:VAL:O	74:CC:55:SER:C	2.61	0.41
74:CC:128:LEU:HD23	74:CC:240:LEU:HD13	2.00	0.41
74:CC:143:ARG:HH22	74:CC:182:LYS:HD2	1.79	0.41
74:CC:210:ILE:CD1	74:CC:252:TRP:CZ2	3.00	0.41
75:Cm:88:LYS:HE3	75:Cm:88:LYS:HB3	1.86	0.41
79:CJ:119:TYR:O	79:CJ:120:ASP:C	2.62	0.41
81:CE:65:ARG:HD3	81:CE:65:ARG:N	2.36	0.41
81:CE:113:PRO:HB3	85:A5:458:C:P	2.60	0.41
82:CG:61:ILE:O	82:CG:64:GLN:HG2	2.20	0.41
82:CG:68:ALA:O	82:CG:71:TYR:HB3	2.20	0.41
85:A5:1238:A:O2'	85:A5:1239:C:C6	2.68	0.41
85:A5:2097:U:O2'	85:A5:2097:U:C6	2.73	0.41
87:A8:108:A:C2	87:A8:112:G:C4	3.08	0.41
1:Az:13:MET:HE2	1:Az:468:ASN:ND2	2.35	0.41
1:Az:150:ARG:HA	1:Az:200:MET:CE	2.47	0.41
1:Az:431:GLY:H	1:Az:441:ASP:HB3	1.86	0.41
1:Az:451:ILE:HG22	1:Az:460:PRO:HA	2.00	0.41
1:Az:485:ILE:N	1:Az:485:ILE:CD1	2.83	0.41
1:Az:652:PHE:O	1:Az:656:GLY:C	2.63	0.41
1:Az:693:CYS:HB3	1:Az:835:VAL:C	2.44	0.41
2:Ag:46:THR:HB	2:Ag:48:ASP:CB	2.39	0.41
2:Ag:298:LEU:HD11	2:Ag:310:TRP:CB	2.48	0.41
3:AU:26:SER:HB2	3:AU:110:VAL:HA	2.03	0.41
4:AK:80:ARG:HA	4:AK:85:LEU:CD1	2.51	0.41
4:AK:94:LEU:CG	4:AK:95:ARG:N	2.82	0.41
5:AO:32:HIS:O	5:AO:43:HIS:HB3	2.20	0.41
8:AS:89:ASP:HB3	8:AS:90:VAL:H	1.47	0.41
10:AN:129:TYR:HB2	10:AN:135:LEU:HD12	2.02	0.41
11:AL:45:LYS:O	11:AL:47:PRO:HD3	2.20	0.41
13:AP:17:TYR:CE1	13:AP:18:ARG:HG3	2.55	0.41
13:AP:28:MET:SD	13:AP:32:GLN:OE1	2.78	0.41
13:AP:60:LEU:HD13	13:AP:89:MET:HG3	2.02	0.41
14:AT:40:ALA:HB3	14:AT:43:LYS:HE3	2.02	0.41
15:AB:93:GLY:HA2	15:AB:94:LYS:HD3	2.01	0.41
15:AB:145:LYS:CA	15:AB:149:GLN:OE1	2.68	0.41
15:AB:208:HIS:NE2	15:AB:209:ASP:OD2	2.53	0.41
17:AV:66:ASP:O	17:AV:67:ASP:O	2.39	0.41
18:AY:62:THR:OG1	36:B2:581:U:C4'	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AZ:84:ALA:O	19:AZ:85:ARG:C	2.62	0.41
21:Ab:62:VAL:O	21:Ab:63:LEU:HB2	2.20	0.41
24:Ae:46:VAL:H	24:Ae:46:VAL:HG12	1.38	0.41
25:Af:99:LYS:O	25:Af:100:LEU:HB2	2.21	0.41
27:AE:86:PHE:CZ	27:AE:182:MET:SD	3.13	0.41
27:AE:122:LYS:HD2	27:AE:164:LEU:HD21	2.01	0.41
28:AC:113:GLN:NE2	36:B2:11:A:H5'	2.36	0.41
29:AG:153:VAL:O	29:AG:154:ARG:C	2.62	0.41
30:AF:167:LYS:CG	30:AF:171:GLU:HG2	2.50	0.41
31:AH:16:PRO:O	31:AH:20:GLU:OE2	2.37	0.41
31:AH:39:GLN:CG	31:AH:40:LEU:N	2.83	0.41
31:AH:84:GLU:C	31:AH:84:GLU:CD	2.88	0.41
31:AH:106:ARG:HD2	36:B2:861:A:C5	2.54	0.41
33:AI:141:ARG:O	33:AI:142:SER:HB3	2.19	0.41
34:AQ:44:PRO:CB	34:AQ:81:ILE:HD11	2.50	0.41
34:AQ:90:LYS:HD3	34:AQ:120:LEU:C	2.46	0.41
34:AQ:128:GLU:HG3	36:B2:1648:G:H3'	2.03	0.41
35:Ah:158:ILE:HA	35:Ah:161:PRO:HG2	1.99	0.41
36:B2:1083:A:C2	36:B2:1861:G:C4	3.08	0.41
36:B2:1119:A:H3'	36:B2:1120:U:H5''	2.02	0.41
36:B2:1305:C:H2'	36:B2:1306:U:C6	2.55	0.41
38:Cz:121:PRO:CG	38:Cz:134:PHE:CE1	3.03	0.41
40:CK:2:PRO:CA	40:CK:3:PRO:CD	2.98	0.41
40:CK:102:GLY:O	40:CK:140:GLY:HA2	2.17	0.41
42:CL:55:ILE:HD11	42:CL:120:TYR:CE2	2.50	0.41
42:CL:81:LEU:HB3	42:CL:86:ILE:O	2.20	0.41
46:CN:71:ARG:HE	46:CN:71:ARG:HB3	1.65	0.41
46:CN:99:GLN:HG3	46:CN:130:PHE:CE2	2.38	0.41
47:CI:76:MET:HG2	47:CI:151:ALA:HB1	2.02	0.41
48:CD:138:GLN:HB3	48:CD:139:PRO:CD	2.51	0.41
48:CD:207:TYR:CE1	48:CD:211:LEU:CD1	2.99	0.41
48:CD:214:GLU:O	48:CD:215:ASP:HB2	2.20	0.41
48:CD:223:PHE:CB	48:CD:226:TYR:HE2	2.25	0.41
50:CR:64:ARG:C	50:CR:67:THR:HG1	2.26	0.41
50:CR:178:GLN:HA	50:CR:181:LYS:HB2	2.03	0.41
50:CR:183:GLU:O	50:CR:187:THR:HG23	2.20	0.41
51:CA:8:GLN:NE2	51:CA:232:GLY:N	2.69	0.41
51:CA:30:ARG:NH1	51:CA:36:GLU:HG3	2.35	0.41
51:CA:52:PRO:CD	51:CA:52:PRO:O	2.68	0.41
53:CT:29:THR:CB	53:CT:30:TYR:CE2	3.04	0.41
55:CU:33:ILE:CD1	55:CU:96:LEU:CD2	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:76:VAL:HG13	55:CU:77:PRO:HD2	2.01	0.41
57:CY:42:TYR:CB	57:CY:44:VAL:HG23	2.50	0.41
58:CW:33:ASN:C	58:CW:37:GLU:CG	2.87	0.41
58:CW:109:ILE:HG22	58:CW:113:LYS:CE	2.41	0.41
60:Cr:7:TRP:CH2	60:Cr:37:SER:OG	2.65	0.41
63:CB:81:THR:HG21	63:CB:207:VAL:CG2	2.50	0.41
63:CB:223:THR:O	63:CB:274:TYR:HA	2.19	0.41
63:CB:381:THR:CG2	63:CB:383:GLU:CD	2.93	0.41
63:CB:385:LYS:HE2	63:CB:389:MET:HE2	2.01	0.41
65:Cc:10:SER:O	65:Cc:11:LEU:CG	2.68	0.41
65:Cc:22:MET:CE	65:Cc:27:TYR:HD2	2.32	0.41
69:Cg:46:CYS:CB	69:Cg:86:CYS:CB	2.98	0.41
70:Ci:45:ARG:HD3	70:Ci:45:ARG:C	2.46	0.41
71:Cj:84:PRO:CA	71:Cj:86:PRO:HD2	2.50	0.41
74:CC:5:ARG:CZ	74:CC:26:ALA:HB2	2.50	0.41
74:CC:28:PHE:CE1	74:CC:131:SER:N	2.89	0.41
74:CC:90:GLY:HA3	74:CC:97:ARG:O	2.20	0.41
74:CC:187:GLN:O	74:CC:187:GLN:HG3	2.14	0.41
75:Cm:94:MET:HE1	75:Cm:123:PRO:HG3	1.95	0.41
75:Cm:122:ARG:CZ	85:A5:4424:A:H5'	2.50	0.41
78:Co:68:LEU:CB	78:Co:83:LEU:CD1	2.87	0.41
79:CJ:56:THR:CG2	79:CJ:64:ARG:H	2.26	0.41
79:CJ:96:LYS:O	79:CJ:97:ASN:C	2.64	0.41
79:CJ:144:LYS:HE3	79:CJ:146:ARG:O	2.20	0.41
80:CH:103:VAL:HG22	80:CH:114:ILE:HG12	2.01	0.41
80:CH:110:SER:HB2	80:CH:111:LEU:C	2.45	0.41
81:CE:56:ARG:HG3	81:CE:57:TYR:HA	2.02	0.41
81:CE:147:GLY:O	81:CE:201:ILE:CG2	2.46	0.41
81:CE:188:ARG:HH11	85:A5:4940:C:H4'	1.84	0.41
82:CG:32:PHE:O	82:CG:33:GLU:CB	2.55	0.41
82:CG:115:LEU:CD2	82:CG:119:GLU:OE1	2.67	0.41
82:CG:160:ASP:C	82:CG:161:VAL:O	2.63	0.41
82:CG:217:LYS:NZ	82:CG:220:GLU:CB	2.83	0.41
83:Cs:9:CYS:HB3	83:Cs:47:PHE:CD1	2.55	0.41
83:Cs:13:ALA:C	83:Cs:17:HIS:HD2	2.28	0.41
84:Cv:19:SER:C	84:Cv:43:ILE:CD1	2.92	0.41
85:A5:1245:C:C6	85:A5:1269:G:C6	3.07	0.41
85:A5:1367:C:O2	85:A5:1369:C:C2	2.73	0.41
85:A5:4415:A:C2	85:A5:4416:G:H1'	2.54	0.41
1:Az:6:VAL:H	1:Az:6:VAL:HG22	1.34	0.41
1:Az:46:ILE:HG23	1:Az:454:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:300:VAL:HG23	1:Az:301:PHE:CD1	2.55	0.41
1:Az:326:GLU:C	1:Az:328:LYS:N	2.77	0.41
1:Az:510:GLU:HG2	1:Az:511:ALA:N	2.35	0.41
1:Az:516:ASP:CB	1:Az:568:ILE:HG21	2.49	0.41
1:Az:753:GLU:CD	1:Az:782:PHE:CZ	2.98	0.41
1:Az:778:GLY:H	40:CK:30:PRO:HB3	1.85	0.41
1:Az:825:PHE:N	1:Az:825:PHE:CD1	2.84	0.41
1:Az:830:ARG:HE	1:Az:830:ARG:N	2.18	0.41
2:Ag:163:PRO:HB2	2:Ag:179:LEU:CG	2.50	0.41
4:AK:12:TYR:CD2	4:AK:79:LEU:HD22	2.56	0.41
6:AX:140:ARG:C	6:AX:141:PRO:O	2.59	0.41
7:AM:22:LEU:HD12	7:AM:88:TRP:HB3	2.02	0.41
7:AM:101:ARG:NE	7:AM:101:ARG:HA	2.36	0.41
8:AS:28:PHE:CE1	36:B2:1603:G:C8	3.08	0.41
12:AR:24:LEU:HB2	12:AR:58:MET:HE3	2.03	0.41
15:AB:60:ASP:C	15:AB:62:LEU:H	2.27	0.41
16:AA:11:LYS:HG3	16:AA:13:GLU:CG	2.40	0.41
16:AA:125:THR:HG22	16:AA:175:TRP:CE2	2.56	0.41
16:AA:204:TYR:C	16:AA:204:TYR:HD2	2.29	0.41
18:AY:99:LYS:O	18:AY:99:LYS:HD2	2.15	0.41
19:AZ:96:LEU:O	19:AZ:112:ASN:CG	2.63	0.41
20:Aa:30:VAL:HG12	20:Aa:31:PRO:O	2.21	0.41
21:Ab:31:TYR:CE1	21:Ab:81:ARG:NH1	2.87	0.41
23:AD:41:VAL:O	23:AD:41:VAL:HG13	2.19	0.41
23:AD:59:LEU:CD1	23:AD:60:GLY:C	2.86	0.41
26:AJ:53:ILE:HD13	26:AJ:105:PHE:CZ	2.55	0.41
27:AE:51:ARG:HG2	27:AE:111:VAL:HG23	2.02	0.41
30:AF:34:SER:C	30:AF:36:GLN:N	2.79	0.41
30:AF:36:GLN:O	30:AF:37:ASP:CG	2.61	0.41
30:AF:37:ASP:OD1	30:AF:37:ASP:N	2.53	0.41
30:AF:86:LYS:O	30:AF:90:VAL:HG23	2.19	0.41
30:AF:124:ASP:CA	30:AF:200:ALA:HB2	2.51	0.41
30:AF:134:VAL:HB	30:AF:136:ARG:NH2	2.34	0.41
31:AH:65:PRO:O	31:AH:66:VAL:HB	2.20	0.41
31:AH:80:VAL:HA	31:AH:83:LEU:CG	2.50	0.41
31:AH:117:PRO:O	31:AH:118:ARG:C	2.60	0.41
34:AQ:49:TYR:O	34:AQ:53:GLU:N	2.50	0.41
35:Ah:164:GLY:O	35:Ah:165:ARG:C	2.64	0.41
35:Ah:172:ARG:CB	35:Ah:173:GLY:CA	2.95	0.41
38:Cz:29:LEU:CD1	38:Cz:29:LEU:C	2.93	0.41
38:Cz:47:LYS:HD2	38:Cz:47:LYS:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:74:CYS:SG	38:Cz:84:HIS:CD2	3.14	0.41
38:Cz:97:LYS:CD	38:Cz:102:LYS:HE3	2.50	0.41
38:Cz:119:GLN:HE21	38:Cz:119:GLN:HB2	1.73	0.41
40:CK:50:THR:CG2	40:CK:72:GLU:HB2	2.50	0.41
40:CK:117:ARG:CG	40:CK:133:LEU:HD21	2.51	0.41
40:CK:134:GLY:O	40:CK:136:ALA:N	2.53	0.41
41:CO:7:LEU:CD1	52:CS:167:PHE:CZ	2.96	0.41
41:CO:55:LEU:HA	41:CO:58:LEU:CD1	2.48	0.41
41:CO:122:ALA:HB1	52:CS:161:ARG:HG3	2.03	0.41
42:CL:35:ARG:HD2	85:A5:1361:G:H5''	2.02	0.41
46:CN:18:VAL:HG22	82:CG:79:ALA:HB3	2.02	0.41
46:CN:47:LYS:N	46:CN:50:ARG:NH1	2.66	0.41
47:CI:38:ARG:HH11	47:CI:83:ASP:CB	2.31	0.41
49:CQ:7:HIS:C	49:CQ:9:LYS:N	2.77	0.41
49:CQ:61:LEU:HD23	49:CQ:141:GLY:HA2	2.01	0.41
49:CQ:63:LEU:HD11	49:CQ:113:ILE:HG13	2.01	0.41
49:CQ:146:ARG:HH11	49:CQ:146:ARG:CG	2.33	0.41
49:CQ:156:PRO:HB2	49:CQ:157:GLY:CA	2.50	0.41
50:CR:96:MET:CE	85:A5:2667:C:C5'	2.94	0.41
50:CR:133:LYS:CD	50:CR:137:ILE:CD1	2.95	0.41
51:CA:6:ARG:HH22	51:CA:198:ARG:CD	2.34	0.41
51:CA:120:PRO:CA	51:CA:162:ASN:OD1	2.68	0.41
51:CA:185:ALA:O	51:CA:188:LYS:HG2	2.20	0.41
52:CS:98:ARG:CD	52:CS:145:PHE:CD2	3.00	0.41
52:CS:114:GLY:O	52:CS:118:ARG:HA	2.21	0.41
54:CP:41:ILE:HD12	54:CP:112:LEU:CA	2.40	0.41
55:CU:58:GLY:O	55:CU:61:VAL:CG2	2.64	0.41
56:CX:119:ILE:HG12	56:CX:140:LEU:CD1	2.50	0.41
58:CW:88:ALA:O	58:CW:90:ILE:N	2.54	0.41
60:Cr:71:ARG:CB	60:Cr:73:PRO:HA	2.44	0.41
62:Cb:50:ASN:OD1	62:Cb:54:LEU:HD13	2.21	0.41
63:CB:51:ALA:CB	63:CB:78:ILE:HD12	2.41	0.41
63:CB:57:VAL:HG22	63:CB:73:VAL:HG12	2.02	0.41
63:CB:229:LYS:HB2	63:CB:272:LYS:CB	2.50	0.41
64:CF:226:HIS:H	64:CF:229:GLU:HB2	1.85	0.41
66:Cd:58:GLY:O	66:Cd:60:PRO:CG	2.62	0.41
68:Cf:9:ALA:C	68:Cf:101:ILE:CD1	2.94	0.41
68:Cf:9:ALA:C	68:Cf:101:ILE:HD13	2.45	0.41
74:CC:12:SER:CB	74:CC:13:GLU:OE1	2.69	0.41
74:CC:170:LEU:HD12	74:CC:171:LEU:CA	2.48	0.41
74:CC:179:ASP:O	74:CC:182:LYS:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:187:GLN:HE21	74:CC:187:GLN:HB2	1.55	0.41
74:CC:189:MET:HE1	74:CC:200:ARG:CZ	2.42	0.41
75:Cm:86:ALA:HB3	80:CH:176:LEU:HD13	2.02	0.41
80:CH:89:ARG:CD	80:CH:91:LYS:HE3	2.25	0.41
80:CH:98:HIS:CD2	85:A5:4602:A:H4'	2.55	0.41
81:CE:63:TYR:O	81:CE:66:LYS:CG	2.68	0.41
85:A5:2471:G:C2	85:A5:2473:A:O4'	2.73	0.41
85:A5:2639:U:C2	85:A5:2694:G:C6	3.07	0.41
1:Az:105:SER:HA	1:Az:106:PRO:HD3	1.83	0.41
1:Az:448:GLN:HG3	1:Az:449:ARG:HB2	2.02	0.41
1:Az:745:TYR:HD2	1:Az:813:VAL:O	2.02	0.41
1:Az:823:ASP:OD2	1:Az:826:ASP:N	2.46	0.41
2:Ag:102:VAL:O	2:Ag:132:TRP:HH2	2.03	0.41
3:AU:44:LYS:HB2	3:AU:49:LYS:HA	2.02	0.41
3:AU:97:ILE:O	3:AU:101:ILE:HD12	2.20	0.41
4:AK:57:TYR:O	4:AK:71:LEU:HD12	2.21	0.41
6:AX:14:ARG:CA	11:AL:99:TYR:CZ	2.71	0.41
7:AM:71:GLU:OE1	7:AM:71:GLU:CA	2.68	0.41
8:AS:40:TYR:OH	8:AS:99:LEU:HD21	2.21	0.41
10:AN:116:ILE:HA	10:AN:119:GLU:OE1	2.20	0.41
11:AL:4:ILE:HB	11:AL:5:GLN:H	1.56	0.41
11:AL:70:GLY:O	11:AL:72:ILE:HD12	2.20	0.41
11:AL:149:ALA:O	11:AL:150:GLY:C	2.62	0.41
15:AB:24:PRO:O	15:AB:27:LYS:HB2	2.20	0.41
15:AB:110:MET:HE1	15:AB:213:ARG:CD	2.47	0.41
15:AB:147:ASN:C	15:AB:149:GLN:N	2.79	0.41
16:AA:75:SER:HB2	16:AA:122:LEU:CD2	2.46	0.41
16:AA:159:ILE:HD12	16:AA:159:ILE:HA	1.28	0.41
18:AY:102:THR:CG2	18:AY:107:ARG:HD3	2.50	0.41
21:Ab:83:GLN:NE2	21:Ab:83:GLN:CA	2.83	0.41
22:Ac:44:ARG:NH1	22:Ac:58:LEU:HD22	2.34	0.41
23:AD:5:ILE:C	36:B2:1578:U:C5	2.98	0.41
23:AD:166:TYR:HD1	23:AD:200:PRO:CG	2.33	0.41
26:AJ:84:ILE:CD1	26:AJ:86:VAL:HG23	2.49	0.41
26:AJ:180:LYS:HD2	26:AJ:181:GLY:N	2.35	0.41
28:AC:58:LYS:CE	28:AC:58:LYS:HA	2.22	0.41
28:AC:78:LEU:HD12	28:AC:98:LEU:HD22	2.01	0.41
28:AC:128:VAL:HG12	28:AC:129:ALA:N	2.34	0.41
28:AC:169:TYR:CG	28:AC:173:LYS:HB3	2.56	0.41
28:AC:202:THR:HG1	28:AC:221:ASP:HB3	1.85	0.41
29:AG:177:GLN:NE2	36:B2:315:C:C5'	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:89:THR:HG23	30:AF:90:VAL:N	2.35	0.41
30:AF:115:ALA:HB3	30:AF:116:ILE:HD13	2.02	0.41
31:AH:133:LEU:HD13	31:AH:173:PHE:HA	2.02	0.41
31:AH:152:ARG:O	31:AH:153:LEU:HD23	2.21	0.41
33:AI:73:THR:O	33:AI:73:THR:HG23	2.21	0.41
33:AI:144:LYS:HG2	36:B2:191:A:OP2	2.21	0.41
33:AI:191:GLU:HG2	33:AI:192:GLY:N	2.34	0.41
34:AQ:15:ARG:NH1	34:AQ:20:THR:HG22	2.36	0.41
34:AQ:41:MET:HG2	34:AQ:41:MET:H	1.57	0.41
35:Ah:151:PHE:H	35:Ah:153:VAL:CG1	2.19	0.41
36:B2:742:U:H6	36:B2:743:U:C6	2.39	0.41
36:B2:909:G:OP1	50:CR:172:ARG:HD3	2.21	0.41
36:B2:1204:A:N6	36:B2:1694:U:H3	2.18	0.41
36:B2:1287:A:N3	36:B2:1315:U:C5	2.88	0.41
36:B2:1541:G:C2'	36:B2:1542:C:H5'	2.51	0.41
38:Cz:49:PHE:CE1	38:Cz:190:LEU:O	2.74	0.41
38:Cz:84:HIS:CD2	38:Cz:85:MET:N	2.89	0.41
38:Cz:210:MET:CG	38:Cz:210:MET:H	2.31	0.41
42:CL:39:ARG:HH22	85:A5:1361:G:H4'	1.85	0.41
42:CL:76:PHE:CZ	42:CL:117:LEU:HD23	2.56	0.41
42:CL:163:LYS:HG3	45:Ca:100:ILE:CB	2.48	0.41
47:CI:7:ARG:HG3	47:CI:8:CYS:N	2.35	0.41
48:CD:42:ASN:OD1	53:CT:67:VAL:C	2.63	0.41
50:CR:69:ALA:O	50:CR:74:ARG:N	2.44	0.41
52:CS:2:LYS:CD	52:CS:43:ARG:CG	2.98	0.41
53:CT:80:VAL:CA	53:CT:83:LYS:H	2.33	0.41
53:CT:138:ALA:CA	53:CT:139:HIS:CG	3.02	0.41
53:CT:141:VAL:O	64:CF:80:ASN:CA	2.69	0.41
54:CP:95:LEU:CG	54:CP:148:MET:HE1	2.50	0.41
58:CW:73:ARG:HG2	58:CW:74:ARG:O	2.21	0.41
60:Cr:3:ALA:HB2	60:Cr:44:ILE:N	2.30	0.41
60:Cr:44:ILE:O	60:Cr:45:HIS:CG	2.73	0.41
60:Cr:46:ARG:HE	60:Cr:69:GLY:HA2	1.79	0.41
60:Cr:71:ARG:CZ	60:Cr:71:ARG:CB	2.99	0.41
60:Cr:91:SER:HB3	81:CE:110:ARG:HG3	2.03	0.41
62:Cb:53:GLY:C	62:Cb:55:LYS:N	2.79	0.41
64:CF:105:VAL:HG13	64:CF:136:VAL:HG12	2.03	0.41
65:Cc:49:ALA:HB2	65:Cc:81:LEU:CD1	2.50	0.41
67:Ce:57:ASN:O	67:Ce:59:GLY:N	2.54	0.41
68:Cf:8:LYS:HZ1	81:CE:279:ASN:CA	2.33	0.41
68:Cf:49:TYR:HE2	68:Cf:51:TYR:CE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:Cl:4:HIS:C	73:Cl:5:LYS:HG3	2.45	0.41
74:CC:4:ALA:O	74:CC:5:ARG:C	2.59	0.41
74:CC:6:PRO:O	74:CC:7:LEU:CB	2.66	0.41
74:CC:7:LEU:HD21	74:CC:21:ASN:ND2	2.36	0.41
74:CC:105:THR:O	74:CC:106:LYS:CD	2.69	0.41
74:CC:324:ILE:HG13	85:A5:1282:G:H5''	2.02	0.41
77:Cp:62:LYS:HD3	77:Cp:62:LYS:HA	1.67	0.41
79:CJ:32:ARG:HA	79:CJ:35:ARG:NH2	2.36	0.41
80:CH:18:ILE:HG22	80:CH:27:VAL:CG2	2.43	0.41
81:CE:80:VAL:HB	81:CE:81:GLU:HB3	2.01	0.41
81:CE:138:ARG:HH22	81:CE:171:GLY:H	1.65	0.41
81:CE:165:LEU:HB3	81:CE:174:LEU:HD23	1.98	0.41
81:CE:222:LEU:CD2	81:CE:222:LEU:H	2.34	0.41
82:CG:110:LYS:HA	82:CG:110:LYS:HD3	1.33	0.41
85:A5:355:A:C5	85:A5:356:G:C8	3.08	0.41
85:A5:3635:A:N7	85:A5:3692:A:H1'	2.36	0.41
85:A5:4465:U:C6	85:A5:4488:A:N6	2.88	0.41
1:Az:297:ILE:HG23	1:Az:301:PHE:HE1	1.85	0.41
1:Az:563:GLU:OE1	1:Az:564:ASP:OD1	2.38	0.41
1:Az:602:LEU:C	1:Az:602:LEU:CD2	2.93	0.41
1:Az:605:LYS:HD2	1:Az:705:HIS:NE2	2.35	0.41
1:Az:762:VAL:HG21	1:Az:800:LEU:HD13	2.03	0.41
2:Ag:142:VAL:HG11	2:Ag:177:TRP:CD2	2.56	0.41
2:Ag:142:VAL:CG1	2:Ag:177:TRP:CH2	3.04	0.41
3:AU:72:GLU:OE2	36:B2:1246:A:H1'	2.21	0.41
4:AK:58:VAL:HG23	4:AK:70:TYR:O	2.20	0.41
4:AK:62:PHE:CE1	4:AK:67:PHE:HE2	2.17	0.41
6:AX:8:ARG:C	6:AX:10:ALA:H	2.28	0.41
6:AX:138:LYS:CA	6:AX:139:GLU:CD	2.94	0.41
8:AS:59:LEU:N	8:AS:59:LEU:HD12	2.31	0.41
9:Ad:50:ILE:HG22	9:Ad:52:PHE:CE2	2.54	0.41
10:AN:16:LEU:HA	10:AN:17:PRO:HD3	1.87	0.41
14:AT:49:ASP:O	14:AT:52:TRP:HD1	2.03	0.41
15:AB:151:ARG:HD2	15:AB:153:THR:OG1	2.21	0.41
15:AB:161:VAL:HG12	15:AB:165:ARG:CZ	2.49	0.41
16:AA:57:LYS:NZ	17:AV:70:LEU:HG	2.31	0.41
16:AA:143:PRO:CG	17:AV:32:ILE:CG2	2.86	0.41
18:AY:104:ARG:HA	18:AY:107:ARG:CZ	2.51	0.41
21:Ab:8:LEU:HD13	32:AW:51:GLU:CD	2.45	0.41
23:AD:145:GLN:HG3	23:AD:146:ARG:H	1.84	0.41
25:Af:87:THR:CA	36:B2:1507:G:H22	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Af:108:VAL:HG13	25:Af:113:LYS:C	2.37	0.41
26:Aj:34:GLU:C	26:Aj:35:TYR:CD2	2.98	0.41
27:AE:45:ILE:HA	27:AE:61:VAL:HG11	2.02	0.41
27:AE:151:ASP:HA	27:AE:152:PRO:HD3	1.45	0.41
28:AC:117:ARG:CG	28:AC:118:ALA:N	2.56	0.41
28:AC:213:LEU:C	28:AC:213:LEU:CD2	2.93	0.41
28:AC:240:THR:HG23	28:AC:241:PHE:N	2.35	0.41
29:AG:64:LYS:HB3	29:AG:97:VAL:HG11	2.03	0.41
30:AF:112:LEU:C	30:AF:112:LEU:CD2	2.94	0.41
31:AH:6:ALA:HB2	31:AH:10:LYS:HZ2	1.85	0.41
31:AH:69:LEU:HD23	31:AH:69:LEU:HA	1.88	0.41
31:AH:121:THR:CG2	31:AH:124:ALA:HB2	2.50	0.41
33:AI:145:ILE:O	33:AI:149:TYR:CD2	2.73	0.41
36:B2:689:U:C5	36:B2:742:U:N3	2.88	0.41
36:B2:1415:C:C5	36:B2:1416:C:N1	2.89	0.41
36:B2:1705:C:H2'	36:B2:1706:G:C8	2.56	0.41
36:B2:1823:A:C4'	36:B2:1824:A:O4'	2.69	0.41
36:B2:1862:G:H1'	36:B2:1863:A:H2'	2.03	0.41
38:Cz:87:ILE:CG2	38:Cz:88:GLU:N	2.83	0.41
38:Cz:204:LEU:HD23	38:Cz:204:LEU:C	2.46	0.41
41:CO:64:THR:CG2	63:CB:261:ARG:CD	2.64	0.41
41:CO:168:TYR:HB2	85:A5:4758:U:H1'	2.03	0.41
42:CL:18:TRP:CZ3	42:CL:22:VAL:HG21	2.56	0.41
42:CL:150:LEU:C	42:CL:151:THR:HG22	2.46	0.41
44:CM:14:TYR:CZ	44:CM:22:GLY:HA2	2.55	0.41
44:CM:86:TRP:CE3	44:CM:86:TRP:HA	2.55	0.41
45:Ca:48:TYR:C	49:CQ:156:PRO:HG3	2.45	0.41
46:CN:4:TYR:CA	46:CN:46:ASP:OD1	2.66	0.41
46:CN:42:PRO:HG3	46:CN:61:ILE:HG21	2.02	0.41
46:CN:67:ARG:HA	46:CN:67:ARG:HD2	1.37	0.41
47:CI:164:LYS:HE2	47:CI:164:LYS:HB3	1.64	0.41
48:CD:296:GLU:C	48:CD:297:SER:O	2.60	0.41
49:CQ:124:ASP:HB3	74:CC:284:MET:HG3	2.02	0.41
50:CR:53:LYS:HA	50:CR:54:PRO:HD2	1.70	0.41
51:CA:104:VAL:CG2	51:CA:162:ASN:O	2.69	0.41
51:CA:180:LEU:HD23	51:CA:184:ARG:NH1	2.34	0.41
52:CS:9:GLU:CG	52:CS:33:PHE:CD2	3.03	0.41
52:CS:27:LEU:HD12	52:CS:27:LEU:N	2.26	0.41
52:CS:134:ALA:O	52:CS:135:SER:HB3	2.20	0.41
54:CP:26:PHE:HB2	54:CP:144:CYS:SG	2.60	0.41
54:CP:88:ALA:C	54:CP:91:LEU:HG	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CU:91:LEU:HD23	55:CU:91:LEU:HA	1.75	0.41
56:CX:61:PRO:O	56:CX:62:ARG:HD3	2.20	0.41
56:CX:101:ASP:OD1	56:CX:102:VAL:N	2.53	0.41
58:CW:87:LEU:O	58:CW:90:ILE:CG1	2.61	0.41
58:CW:90:ILE:HG23	58:CW:94:ARG:NE	2.35	0.41
60:Cr:71:ARG:CG	60:Cr:79:ARG:HD3	2.50	0.41
60:Cr:71:ARG:HB2	60:Cr:79:ARG:HD2	2.02	0.41
60:Cr:77:TYR:O	60:Cr:78:VAL:C	2.63	0.41
60:Cr:132:ARG:N	60:Cr:133:PRO:CD	2.83	0.41
63:CB:84:MET:HG3	63:CB:165:HIS:C	2.46	0.41
63:CB:123:HIS:CG	63:CB:124:LYS:N	2.88	0.41
63:CB:240:LEU:H	63:CB:240:LEU:HD22	1.85	0.41
64:CF:30:ILE:O	64:CF:34:ARG:HG2	2.19	0.41
65:Cc:27:TYR:CE1	65:Cc:29:LEU:CG	2.96	0.41
65:Cc:69:THR:CG2	65:Cc:70:GLY:N	2.84	0.41
66:Cd:53:ALA:HB1	66:Cd:104:THR:HG21	2.02	0.41
67:Ce:67:LYS:O	67:Ce:68:HIS:CB	2.62	0.41
67:Ce:85:LEU:HD12	67:Ce:111:ILE:CG2	2.50	0.41
70:Ci:28:ARG:HG2	70:Ci:28:ARG:H	1.45	0.41
70:Ci:76:ARG:HD3	85:A5:305:A:H5'	2.01	0.41
73:Cl:4:HIS:N	73:Cl:5:LYS:HG3	2.35	0.41
74:CC:210:ILE:HG21	74:CC:252:TRP:HZ3	1.83	0.41
74:CC:341:LEU:HD13	74:CC:341:LEU:HA	1.77	0.41
75:Cm:99:CYS:O	75:Cm:100:TYR:HB2	2.20	0.41
77:Cp:27:LYS:CD	77:Cp:28:LYS:CA	2.99	0.41
78:Co:77:CYS:C	78:Co:79:SER:N	2.78	0.41
79:CJ:48:PRO:HB2	79:CJ:70:VAL:CG2	2.50	0.41
80:CH:106:GLN:C	80:CH:107:GLU:CD	2.87	0.41
81:CE:162:VAL:CG1	81:CE:177:GLY:N	2.81	0.41
81:CE:240:TYR:O	81:CE:241:GLU:C	2.61	0.41
82:CG:31:LEU:CD1	82:CG:31:LEU:H	2.31	0.41
82:CG:73:ARG:HD3	82:CG:73:ARG:HA	1.62	0.41
85:A5:1268:G:H21	85:A5:1269:G:H2'	1.84	0.41
85:A5:1908:A:H8	85:A5:1908:A:O5'	2.03	0.41
85:A5:2693:G:C6	85:A5:2694:G:C6	3.09	0.41
85:A5:4459:U:H2'	85:A5:4460:U:C6	2.55	0.41
85:A5:4910:G:O2'	85:A5:4911:A:H8	2.02	0.41
86:A7:54:A:H2'	86:A7:55:A:O4'	2.20	0.41
1:Az:433:ASN:O	1:Az:435:THR:HG23	2.20	0.41
1:Az:517:LEU:HD11	6:AX:97:ASN:OD1	2.19	0.41
1:Az:588:ASN:OD1	1:Az:589:VAL:CG2	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Az:739:ARG:HD2	1:Az:821:PRO:C	2.45	0.41
1:Az:752:PRO:HA	1:Az:781:MET:HG2	2.03	0.41
2:Ag:42:MET:HG3	2:Ag:92:LEU:CG	2.49	0.41
4:AK:84:HIS:HD2	7:AM:27:ILE:CD1	2.31	0.41
8:AS:120:HIS:HB2	13:AP:121:ILE:HA	2.03	0.41
10:AN:38:TYR:HE1	10:AN:78:LYS:NZ	2.18	0.41
10:AN:94:LYS:CE	36:B2:1010:G:OP1	2.68	0.41
11:AL:50:ALA:N	11:AL:116:CYS:SG	2.94	0.41
11:AL:71:ARG:HE	11:AL:71:ARG:HB2	1.52	0.41
12:AR:85:VAL:CG1	16:AA:198:MET:CB	2.65	0.41
13:AP:84:ILE:HD11	13:AP:115:TYR:CZ	2.52	0.41
13:AP:89:MET:HB3	13:AP:107:ILE:HD11	1.95	0.41
13:AP:97:TYR:CZ	13:AP:99:GLY:C	2.98	0.41
14:AT:33:TRP:HB2	14:AT:36:THR:HG22	2.02	0.41
14:AT:60:THR:HG23	14:AT:64:LEU:HD21	2.03	0.41
14:AT:129:ARG:CB	36:B2:1417:C:H4'	2.49	0.41
15:AB:182:LYS:O	15:AB:185:VAL:HB	2.21	0.41
15:AB:232:HIS:C	15:AB:233:GLY:O	2.59	0.41
16:AA:123:VAL:HG12	16:AA:175:TRP:CH2	2.55	0.41
18:AY:29:HIS:O	18:AY:30:PRO:C	2.63	0.41
19:AZ:84:ALA:O	19:AZ:87:ALA:N	2.54	0.41
21:Ab:63:LEU:O	21:Ab:64:CYS:CB	2.69	0.41
23:AD:29:LEU:CD2	23:AD:65:ARG:NH2	2.84	0.41
23:AD:73:VAL:O	23:AD:77:PHE:HD2	2.04	0.41
23:AD:213:PRO:O	23:AD:214:LYS:CB	2.37	0.41
26:AJ:131:ARG:HH11	26:AJ:143:ASN:CG	2.29	0.41
27:AE:20:LEU:HD21	27:AE:50:ASN:ND2	2.35	0.41
27:AE:21:ASP:CG	27:AE:24:THR:HG23	2.39	0.41
29:AG:32:MET:HA	29:AG:52:ILE:CG2	2.51	0.41
29:AG:49:VAL:CG2	29:AG:115:LYS:HE2	2.51	0.41
29:AG:131:ARG:N	58:CW:81:ALA:CB	2.77	0.41
30:AF:20:PHE:HB3	30:AF:23:TRP:CB	2.46	0.41
30:AF:111:VAL:HG13	30:AF:181:ALA:HB2	2.03	0.41
31:AH:23:ILE:HG23	31:AH:24:SER:N	2.35	0.41
33:AI:55:TYR:CZ	36:B2:305:U:H1'	2.56	0.41
33:AI:134:GLU:O	33:AI:135:GLU:C	2.64	0.41
33:AI:139:LYS:HD2	33:AI:145:ILE:HD12	2.01	0.41
34:AQ:9:SER:N	34:AQ:99:TYR:OH	2.48	0.41
36:B2:1601:A:C5'	36:B2:1602:U:H6	2.33	0.41
36:B2:1745:A:C2	36:B2:1746:U:C5	3.08	0.41
36:B2:1844:U:P	76:Cn:11:ARG:HH22	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B2:1851:A:C5'	76:Cn:1:MET:HE3	2.51	0.41
38:Cz:90:LEU:HD22	38:Cz:124:LEU:CG	2.51	0.41
38:Cz:216:LEU:CD1	38:Cz:216:LEU:C	2.94	0.41
39:Cq:39:GLN:CD	39:Cq:186:GLY:HA2	2.35	0.41
39:Cq:57:LYS:HG3	39:Cq:59:THR:HG23	2.03	0.41
39:Cq:57:LYS:CG	39:Cq:59:THR:HG23	2.51	0.41
39:Cq:135:THR:CG2	39:Cq:152:ILE:CG1	2.85	0.41
39:Cq:188:VAL:CG1	39:Cq:189:ILE:N	2.83	0.41
39:Cq:246:LYS:CA	39:Cq:249:LEU:HG	2.49	0.41
40:CK:52:ASP:CB	40:CK:53:TRP:NE1	2.76	0.41
40:CK:92:ARG:CG	40:CK:95:GLN:OE1	2.68	0.41
42:CL:18:TRP:HZ3	74:CC:108:TRP:CZ2	2.37	0.41
42:CL:62:PRO:HD2	42:CL:71:ARG:HH21	1.86	0.41
42:CL:156:PRO:C	42:CL:157:VAL:CG1	2.77	0.41
45:Ca:11:LEU:C	45:Ca:14:HIS:CD2	2.97	0.41
46:CN:11:TRP:CZ3	46:CN:44:ARG:NH2	2.84	0.41
48:CD:64:ILE:HD13	48:CD:76:CYS:HB2	2.01	0.41
48:CD:74:ILE:CD1	86:A7:115:A:H1'	2.49	0.41
48:CD:190:PHE:CZ	48:CD:195:HIS:CG	3.03	0.41
49:CQ:69:LYS:N	49:CQ:69:LYS:CD	2.83	0.41
49:CQ:97:LYS:O	49:CQ:118:GLY:HA2	2.20	0.41
49:CQ:163:THR:O	49:CQ:165:PRO:CD	2.64	0.41
50:CR:128:LYS:C	50:CR:130:ASN:H	2.28	0.41
52:CS:152:PHE:HB2	52:CS:153:PRO:CD	2.45	0.41
53:CT:30:TYR:HH	53:CT:94:GLU:CD	2.28	0.41
56:CX:40:ILE:HG13	82:CG:52:THR:CG2	2.47	0.41
60:Cr:71:ARG:HG3	60:Cr:79:ARG:HB2	1.89	0.41
60:Cr:71:ARG:CG	60:Cr:79:ARG:CD	2.99	0.41
63:CB:292:LEU:CD2	63:CB:293:ILE:HG13	2.50	0.41
64:CF:30:ILE:HD12	64:CF:30:ILE:N	2.36	0.41
69:Cg:7:TYR:HE1	69:Cg:20:THR:HG23	1.76	0.41
69:Cg:41:ALA:C	69:Cg:52:ARG:HD2	1.97	0.41
74:CC:7:LEU:HD11	74:CC:21:ASN:HB2	1.93	0.41
74:CC:36:ILE:HD12	74:CC:122:TYR:CD2	2.56	0.41
77:Cp:56:HIS:ND1	77:Cp:63:THR:OG1	2.48	0.41
80:CH:31:ARG:CG	80:CH:149:ASN:OD1	2.68	0.41
81:CE:115:TYR:HB2	81:CE:117:PRO:CD	2.51	0.41
81:CE:140:LEU:HD21	81:CE:167:GLN:OE1	2.19	0.41
85:A5:469:C:C5	85:A5:684:G:N2	2.88	0.41
85:A5:2079:G:C6	85:A5:2080:U:C4	3.09	0.41
85:A5:2770:C:C4	85:A5:2771:G:N7	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:2835:A:H2'	85:A5:2836:A:C8	2.56	0.41
85:A5:2836:A:H2'	85:A5:2837:U:H5'	2.02	0.41
85:A5:4947:U:H2'	85:A5:4948:C:C5	2.53	0.41
87:A8:96:C:H2'	87:A8:97:A:C8	2.56	0.41
1:Az:259:LYS:HG3	1:Az:264:ARG:HD3	2.03	0.41
1:Az:477:GLN:HE21	1:Az:477:GLN:HB3	1.57	0.41
1:Az:607:ARG:HH21	1:Az:701:ARG:NH1	2.19	0.41
2:Ag:131:LEU:CD2	2:Ag:131:LEU:C	2.94	0.41
2:Ag:176:VAL:HG21	2:Ag:221:LEU:CD1	2.50	0.41
3:AU:63:ILE:HG21	9:Ad:43:PHE:CE2	2.56	0.41
5:AO:83:GLN:O	5:AO:87:GLU:HB2	2.21	0.41
6:AX:21:LYS:HB3	6:AX:27:TYR:CE2	2.55	0.41
7:AM:35:ILE:CG2	7:AM:36:ARG:N	2.81	0.41
7:AM:64:LEU:HD23	7:AM:64:LEU:HA	1.91	0.41
8:AS:82:TRP:CG	8:AS:83:PHE:N	2.89	0.41
10:AN:4:MET:HE1	10:AN:124:ARG:NH2	2.36	0.41
13:AP:78:THR:O	13:AP:102:PHE:HE1	2.03	0.41
13:AP:97:TYR:HA	13:AP:101:THR:O	2.21	0.41
15:AB:119:THR:O	15:AB:142:PHE:HA	2.21	0.41
16:AA:106:GLY:CA	16:AA:110:ASN:HD22	2.33	0.41
16:AA:205:ARG:HG3	16:AA:206:ASP:N	2.28	0.41
17:AV:46:PHE:O	17:AV:46:PHE:CG	2.71	0.41
18:AY:35:VAL:HG12	18:AY:39:GLU:OE1	2.20	0.41
19:AZ:92:LEU:HD13	19:AZ:99:LEU:HD21	2.02	0.41
20:Aa:49:ALA:CB	20:Aa:53:ILE:HD11	2.42	0.41
20:Aa:95:ARG:CZ	36:B2:991:G:C6	3.03	0.41
21:Ab:23:ARG:O	21:Ab:24:LEU:C	2.64	0.41
23:AD:53:THR:CG2	23:AD:91:VAL:CB	2.89	0.41
27:AE:49:ARG:CD	27:AE:50:ASN:N	2.72	0.41
28:AC:68:ARG:NH1	28:AC:273:LEU:O	2.52	0.41
28:AC:74:LYS:CD	28:AC:269:PHE:CE1	3.04	0.41
28:AC:149:THR:CG2	28:AC:150:ALA:N	2.82	0.41
28:AC:261:PHE:HB3	28:AC:262:THR:H	1.63	0.41
33:AI:97:VAL:CG2	33:AI:100:CYS:SG	3.05	0.41
33:AI:154:LYS:C	33:AI:154:LYS:HZ3	2.24	0.41
34:AQ:37:ARG:HB2	34:AQ:41:MET:HG3	2.03	0.41
34:AQ:85:ARG:CZ	34:AQ:117:ARG:CG	2.72	0.41
36:B2:168:C:C5	36:B2:169:U:C4	3.09	0.41
36:B2:558:G:C6	36:B2:559:G:C6	3.09	0.41
38:Cz:9:THR:CG2	38:Cz:10:LEU:N	2.84	0.41
38:Cz:33:GLU:HB2	38:Cz:207:LYS:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:Cz:61:PRO:CG	38:Cz:171:HIS:HE1	2.33	0.41
38:Cz:159:MET:N	38:Cz:159:MET:SD	2.94	0.41
39:Cq:79:LEU:O	39:Cq:81:HIS:N	2.54	0.41
39:Cq:130:LEU:C	40:CK:35:LEU:CD2	2.92	0.41
39:Cq:191:GLN:HG2	39:Cq:200:ASN:OD1	2.21	0.41
39:Cq:242:ILE:CG2	83:Ct:63:VAL:CG2	2.89	0.41
41:CO:54:TYR:CE2	41:CO:145:VAL:CG2	3.03	0.41
41:CO:149:TYR:CE1	63:CB:96:PRO:O	2.74	0.41
41:CO:202:LEU:O	41:CO:203:VAL:N	2.42	0.41
42:CL:31:ARG:NE	42:CL:31:ARG:HA	2.36	0.41
43:CV:105:ILE:HG22	43:CV:113:LYS:HB3	2.02	0.41
45:Ca:51:GLY:N	49:CQ:178:ARG:O	2.52	0.41
45:Ca:103:VAL:HG12	45:Ca:103:VAL:O	2.20	0.41
45:Ca:130:SER:O	45:Ca:131:ARG:C	2.63	0.41
46:CN:138:PHE:CE1	85:A5:18:C:H4'	2.56	0.41
48:CD:181:PRO:CG	48:CD:198:HIS:CG	3.03	0.41
49:CQ:33:ARG:HG3	49:CQ:48:LEU:CD1	2.48	0.41
50:CR:46:LYS:O	50:CR:46:LYS:HG3	2.20	0.41
50:CR:170:ARG:O	50:CR:173:ARG:HG2	2.21	0.41
51:CA:80:GLU:CD	77:Cp:76:ALA:CB	2.93	0.41
53:CT:126:VAL:O	53:CT:127:GLN:CB	2.69	0.41
56:CX:65:ALA:C	56:CX:66:PRO:O	2.56	0.41
56:CX:68:ARG:O	56:CX:70:LYS:N	2.51	0.41
57:CY:86:GLN:HG2	57:CY:94:THR:HB	2.03	0.41
59:CZ:32:GLY:O	59:CZ:40:HIS:HE1	2.04	0.41
60:Cr:106:LEU:HD12	60:Cr:109:ALA:HB3	2.03	0.41
63:CB:8:ALA:HA	63:CB:9:PRO:HD3	1.79	0.41
63:CB:10:ARG:CD	63:CB:14:LEU:HD11	2.50	0.41
63:CB:61:ASP:OD2	63:CB:361:GLU:HG3	2.17	0.41
63:CB:82:PRO:HD3	63:CB:171:LEU:HD21	2.02	0.41
63:CB:173:LEU:CD1	63:CB:342:LYS:CG	2.92	0.41
63:CB:239:LYS:O	63:CB:240:LEU:C	2.62	0.41
64:CF:51:TYR:CD2	81:CE:58:SER:CA	3.04	0.41
64:CF:240:ILE:CG2	64:CF:241:ASN:N	2.83	0.41
65:Cc:28:VAL:CG1	65:Cc:29:LEU:N	2.82	0.41
71:Cj:87:LYS:CD	71:Cj:88:ARG:N	2.84	0.41
74:CC:12:SER:HB2	74:CC:13:GLU:CD	2.46	0.41
74:CC:22:VAL:O	74:CC:22:VAL:HG13	2.10	0.41
74:CC:40:VAL:O	74:CC:44:LEU:N	2.54	0.41
74:CC:109:ARG:HD2	74:CC:111:TRP:HZ3	1.73	0.41
74:CC:210:ILE:CA	74:CC:230:LEU:O	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:CC:230:LEU:HD12	74:CC:239:LYS:HD3	2.02	0.41
79:CJ:156:ARG:HG2	79:CJ:157:ILE:H	1.85	0.41
80:CH:128:MET:HE1	80:CH:146:LEU:HD22	2.02	0.41
81:CE:33:LYS:HD2	81:CE:35:LYS:H	1.85	0.41
81:CE:131:LYS:HB2	81:CE:132:PRO:C	2.46	0.41
82:CG:28:VAL:O	82:CG:32:PHE:N	2.50	0.41
82:CG:57:TRP:HA	82:CG:57:TRP:CE3	2.55	0.41
82:CG:115:LEU:HA	82:CG:115:LEU:HD23	1.81	0.41
85:A5:183:C:H2'	85:A5:184:U:H5'	2.02	0.41
85:A5:450:G:H2'	85:A5:451:C:C6	2.55	0.41
85:A5:1354:A:C8	85:A5:1503:A:C6	3.09	0.41
85:A5:1367:C:H1'	85:A5:1370:G:C5	2.55	0.41
85:A5:4281:A:C2	85:A5:4283:G:C6	3.08	0.41
1:Az:16:LYS:O	1:Az:17:ALA:C	2.64	0.41
1:Az:27:HIS:HB3	1:Az:30:HIS:CG	2.56	0.41
1:Az:275:LYS:CE	1:Az:276:SER:CA	2.89	0.41
1:Az:343:TRP:CE3	1:Az:343:TRP:C	2.96	0.41
1:Az:371:LEU:O	1:Az:495:ARG:HD3	2.21	0.41
1:Az:740:LEU:CD1	1:Az:820:LEU:HD12	2.41	0.41
1:Az:750:GLN:HA	1:Az:782:PHE:O	2.21	0.41
1:Az:762:VAL:HG21	1:Az:800:LEU:CD1	2.51	0.41
2:Ag:17:TRP:CD1	2:Ag:303:THR:O	2.74	0.41
2:Ag:30:MET:HG2	2:Ag:31:ILE:N	2.35	0.41
2:Ag:32:LEU:HD23	2:Ag:69:VAL:HG22	2.02	0.41
2:Ag:106:LYS:HB3	2:Ag:107:ASP:H	1.64	0.41
2:Ag:119:GLN:OE1	2:Ag:179:LEU:CD1	2.68	0.41
2:Ag:232:GLY:C	2:Ag:257:LYS:HZ1	2.29	0.41
2:Ag:234:ASP:OD2	2:Ag:254:PRO:HG2	2.21	0.41
2:Ag:234:ASP:HB2	2:Ag:254:PRO:HD2	2.02	0.41
4:AK:14:LEU:HD23	4:AK:35:LEU:HD22	1.87	0.41
7:AM:124:ILE:O	7:AM:128:PHE:HB2	2.21	0.41
8:AS:14:ARG:HH11	8:AS:17:ASN:HA	1.63	0.41
8:AS:30:ILE:C	8:AS:32:ALA:N	2.79	0.41
8:AS:108:ARG:NH2	79:CJ:119:TYR:HE2	1.92	0.41
8:AS:120:HIS:HA	13:AP:121:ILE:CG2	2.44	0.41
8:AS:131:VAL:O	8:AS:131:VAL:HG12	2.21	0.41
8:AS:137:LYS:HE3	36:B2:1236:G:O6	2.21	0.41
9:Ad:30:LEU:CD2	9:Ad:31:ILE:N	2.84	0.41
11:AL:151:THR:C	11:AL:153:LYS:N	2.78	0.41
12:AR:24:LEU:HD12	12:AR:58:MET:CE	2.43	0.41
12:AR:98:VAL:O	12:AR:100:PRO:CD	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AP:36:LEU:HA	13:AP:37:TYR:CG	2.56	0.41
13:AP:41:GLN:OE1	13:AP:45:LEU:HD12	2.21	0.41
14:AT:63:HIS:CE1	36:B2:1587:G:N2	2.88	0.41
14:AT:64:LEU:HD12	14:AT:113:VAL:HG11	2.03	0.41
15:AB:66:VAL:HG22	15:AB:87:ILE:CA	2.51	0.41
15:AB:87:ILE:O	15:AB:87:ILE:HG13	2.20	0.41
15:AB:120:MET:CB	15:AB:142:PHE:CE1	3.04	0.41
16:AA:17:LYS:N	16:AA:17:LYS:CD	2.82	0.41
16:AA:36:GLN:O	16:AA:53:ARG:CZ	2.69	0.41
16:AA:57:LYS:HD2	16:AA:160:ALA:O	2.20	0.41
16:AA:111:GLN:HB3	28:AC:63:VAL:CG1	2.46	0.41
16:AA:161:ILE:CG2	16:AA:174:MET:HE2	2.51	0.41
17:AV:1:MET:SD	28:AC:166:ARG:NH2	2.94	0.41
17:AV:27:LYS:NZ	28:AC:82:TYR:CD1	2.81	0.41
17:AV:41:LYS:O	17:AV:43:THR:CA	2.67	0.41
17:AV:46:PHE:C	17:AV:46:PHE:CD1	2.99	0.41
18:AY:36:PRO:HG3	18:AY:39:GLU:OE2	2.19	0.41
18:AY:98:GLU:O	18:AY:99:LYS:CB	2.67	0.41
18:AY:108:LYS:O	18:AY:111:LYS:CG	2.61	0.41
23:AD:4:GLN:O	23:AD:5:ILE:CG1	2.69	0.41
23:AD:77:PHE:C	23:AD:79:PHE:N	2.78	0.41
23:AD:195:THR:HA	23:AD:197:LYS:C	2.36	0.41
23:AD:197:LYS:N	23:AD:199:GLY:CA	2.84	0.41
23:AD:218:LEU:HG	23:AD:218:LEU:O	2.21	0.41
24:Ae:2:VAL:O	24:Ae:3:HIS:C	2.62	0.41
26:AJ:34:GLU:HB3	26:AJ:35:TYR:CE2	2.56	0.41
26:AJ:50:LEU:CD2	26:AJ:54:ARG:HG3	2.45	0.41
27:AE:169:ILE:O	27:AE:169:ILE:HG13	2.21	0.41
27:AE:229:GLY:HA2	27:AE:235:TRP:NE1	2.36	0.41
28:AC:84:PHE:CE1	28:AC:262:THR:HG23	2.55	0.41
28:AC:142:LYS:HE3	28:AC:143:CYS:H	1.85	0.41
28:AC:166:ARG:HH12	28:AC:255:LEU:HD13	1.67	0.41
28:AC:183:LYS:HG3	32:AW:95:PRO:HA	2.03	0.41
28:AC:240:THR:CG2	28:AC:241:PHE:N	2.84	0.41
28:AC:246:LYS:HB3	28:AC:246:LYS:HE3	1.46	0.41
28:AC:259:THR:CG2	28:AC:261:PHE:CB	2.98	0.41
28:AC:265:PRO:O	28:AC:269:PHE:CD2	2.74	0.41
29:AG:25:ARG:CD	29:AG:28:TYR:CD2	3.04	0.41
29:AG:109:LEU:HD23	29:AG:109:LEU:HA	1.91	0.41
29:AG:121:ILE:CG1	29:AG:122:PRO:HD3	2.51	0.41
29:AG:173:ALA:CB	36:B2:77:A:H4'	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AF:18:LYS:HD2	34:AQ:57:LEU:HD21	2.03	0.41
30:AF:29:GLN:CD	30:AF:29:GLN:N	2.78	0.41
31:AH:6:ALA:HB2	31:AH:10:LYS:NZ	2.35	0.41
31:AH:10:LYS:HE2	31:AH:10:LYS:HB2	1.71	0.41
31:AH:58:LYS:O	31:AH:90:LYS:HA	2.21	0.41
31:AH:148:LEU:C	31:AH:148:LEU:CD2	2.94	0.41
31:AH:149:ASP:O	31:AH:150:GLY:C	2.59	0.41
32:AW:30:CYS:SG	32:AW:61:ILE:CD1	2.97	0.41
32:AW:36:ARG:HE	32:AW:110:ILE:HB	1.85	0.41
32:AW:96:SER:OG	32:AW:98:GLN:CG	2.67	0.41
32:AW:102:ILE:N	32:AW:113:HIS:CE1	2.78	0.41
33:AI:25:ARG:HD2	33:AI:27:TYR:HE2	0.78	0.41
33:AI:65:PHE:HA	33:AI:187:GLY:O	2.21	0.41
33:AI:157:LYS:O	33:AI:158:ILE:CG2	2.69	0.41
34:AQ:42:ILE:CG1	34:AQ:51:LEU:HD22	2.47	0.41
34:AQ:100:VAL:CG1	34:AQ:101:ASP:N	2.44	0.41
36:B2:224:A:C2	36:B2:298:G:C6	3.09	0.41
36:B2:287:U:C6	36:B2:287:U:H5''	2.55	0.41
36:B2:732:U:H2'	36:B2:733:C:C6	2.56	0.41
36:B2:850:C:C5	36:B2:851:C:C5	3.09	0.41
36:B2:1432:U:C4	36:B2:1433:C:C4	3.09	0.41
36:B2:1433:C:C2'	36:B2:1434:C:O5'	2.69	0.41
38:Cz:3:SER:HB2	38:Cz:212:LYS:CD	2.51	0.41
38:Cz:24:LYS:HB2	38:Cz:172:VAL:HG21	2.03	0.41
38:Cz:30:GLU:CG	38:Cz:210:MET:N	2.83	0.41
38:Cz:36:ILE:O	38:Cz:36:ILE:HG23	2.20	0.41
38:Cz:46:ASP:C	38:Cz:48:ARG:HD3	2.44	0.41
38:Cz:94:ASN:C	38:Cz:96:ASN:H	2.29	0.41
38:Cz:198:TRP:CZ3	38:Cz:202:ARG:HD2	2.56	0.41
38:Cz:198:TRP:CH2	38:Cz:202:ARG:NH1	2.89	0.41
39:Cq:80:PRO:CD	39:Cq:81:HIS:CE1	3.00	0.41
39:Cq:191:GLN:OE1	39:Cq:198:ILE:HG22	2.21	0.41
40:CK:125:LEU:O	40:CK:126:SER:C	2.62	0.41
40:CK:142:ASN:HD22	40:CK:147:HIS:C	2.29	0.41
41:CO:147:TRP:CH2	41:CO:150:GLN:HA	2.55	0.41
42:CL:91:ALA:O	42:CL:94:ILE:HB	2.20	0.41
43:CV:128:LEU:HB3	43:CV:129:TRP:CD1	2.56	0.41
44:CM:6:PHE:CG	52:CS:152:PHE:O	2.74	0.41
44:CM:89:THR:OG1	44:CM:92:ALA:CA	2.68	0.41
45:Ca:27:LYS:C	45:Ca:28:HIS:CD2	2.99	0.41
45:Ca:74:ASN:HB3	45:Ca:114:LYS:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:Ca:116:LYS:HD3	85:A5:1398:A:H62	1.85	0.41
45:Ca:117:LEU:HG	45:Ca:140:VAL:HG21	2.02	0.41
46:CN:10:LEU:HD12	70:CI:48:CYS:SG	2.60	0.41
46:CN:50:ARG:NH2	46:CN:50:ARG:HG3	2.17	0.41
46:CN:65:ARG:HD2	46:CN:129:PHE:HE1	1.78	0.41
47:CI:109:ASP:CA	47:CI:112:GLN:NE2	2.65	0.41
47:CI:112:GLN:C	47:CI:113:THR:OG1	2.64	0.41
48:CD:24:ARG:NH2	86:A7:13:A:O2'	2.54	0.41
48:CD:208:MET:SD	48:CD:223:PHE:CE1	3.14	0.41
48:CD:208:MET:HE2	48:CD:233:PRO:HA	1.98	0.41
48:CD:257:PRO:O	48:CD:258:LYS:HB2	2.21	0.41
50:CR:11:ALA:HB2	50:CR:50:ILE:HD12	2.01	0.41
50:CR:68:LEU:O	50:CR:72:LYS:HG3	2.21	0.41
50:CR:130:ASN:HD21	85:A5:1570:G:H21	1.67	0.41
51:CA:137:ILE:O	51:CA:138:SER:CB	2.62	0.41
51:CA:193:ARG:NH2	85:A5:3685:C:H5''	2.31	0.41
51:CA:210:PRO:HG3	51:CA:233:ARG:HA	2.00	0.41
52:CS:6:THR:C	52:CS:7:LEU:HD13	2.45	0.41
52:CS:47:PHE:O	52:CS:50:GLN:HB2	2.20	0.41
52:CS:88:SER:OG	52:CS:89:GLY:HA2	2.16	0.41
52:CS:136:LYS:CD	52:CS:136:LYS:N	2.84	0.41
53:CT:4:THR:HB	53:CT:9:ARG:CD	2.50	0.41
54:CP:109:VAL:HG12	54:CP:110:ASP:H	1.72	0.41
55:CU:38:ASN:O	55:CU:42:PHE:N	2.53	0.41
55:CU:60:VAL:C	55:CU:75:GLU:N	2.68	0.41
56:CX:68:ARG:NH2	56:CX:69:ASN:OD1	2.54	0.41
56:CX:82:THR:HG23	61:Ch:36:VAL:HG11	1.41	0.41
58:CW:55:TYR:CE1	58:CW:59:HIS:NE2	2.89	0.41
59:CZ:17:ARG:H	59:CZ:17:ARG:HG2	1.67	0.41
59:CZ:26:VAL:HG12	59:CZ:89:ILE:HG13	2.03	0.41
59:CZ:38:TYR:N	59:CZ:38:TYR:CD2	2.88	0.41
60:Cr:44:ILE:HG23	60:Cr:45:HIS:N	2.30	0.41
60:Cr:81:THR:HG22	60:Cr:82:ILE:HA	2.03	0.41
61:Ch:67:GLU:O	61:Ch:71:LYS:HG3	2.20	0.41
62:Cb:22:LYS:HZ2	62:Cb:22:LYS:CB	1.98	0.41
62:Cb:54:LEU:C	62:Cb:58:GLN:CB	2.94	0.41
62:Cb:61:ASN:O	62:Cb:65:MET:SD	2.79	0.41
63:CB:115:LYS:NZ	63:CB:119:TYR:HD2	2.18	0.41
63:CB:173:LEU:HD13	63:CB:342:LYS:HE3	1.99	0.41
63:CB:248:LEU:CA	85:A5:2838:G:OP1	2.69	0.41
63:CB:262:VAL:HG13	85:A5:4565:C:H5'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:297:LYS:H	63:CB:297:LYS:HE3	1.85	0.41
63:CB:317:LEU:HD12	63:CB:379:PHE:O	2.21	0.41
63:CB:381:THR:HG22	63:CB:384:GLU:HB2	2.02	0.41
63:CB:383:GLU:OE1	63:CB:384:GLU:N	2.54	0.41
64:CF:135:ILE:HG23	64:CF:136:VAL:N	2.36	0.41
64:CF:142:TRP:CZ3	64:CF:235:ASN:ND2	2.89	0.41
64:CF:193:GLU:OE2	64:CF:200:ARG:HB2	2.19	0.41
65:Cc:10:SER:O	65:Cc:11:LEU:O	2.38	0.41
65:Cc:28:VAL:CG2	65:Cc:33:GLN:HG2	2.51	0.41
65:Cc:102:SER:CB	65:Cc:104:ILE:CD1	2.84	0.41
66:Cd:27:ILE:CG2	66:Cd:32:ARG:NH1	2.81	0.41
66:Cd:56:GLU:OE1	66:Cd:88:LEU:HD21	2.20	0.41
66:Cd:58:GLY:C	66:Cd:60:PRO:CD	2.61	0.41
66:Cd:77:ILE:HD11	85:A5:2370:A:C2	2.56	0.41
66:Cd:86:VAL:CG1	66:Cd:87:ARG:N	2.84	0.41
67:Ce:6:PRO:HB2	81:CE:120:ASP:HA	2.02	0.41
67:Ce:29:VAL:HB	85:A5:1332:C:H5''	2.02	0.41
68:Cf:34:TYR:O	68:Cf:35:ALA:CB	2.56	0.41
70:Ci:26:HIS:CD2	85:A5:160:G:C8	3.09	0.41
71:Cj:53:ALA:HA	71:Cj:56:ARG:HH21	1.86	0.41
71:Cj:67:LEU:O	71:Cj:68:LYS:C	2.63	0.41
71:Cj:86:PRO:CA	71:Cj:87:LYS:CB	2.96	0.41
71:Cj:87:LYS:HD3	71:Cj:87:LYS:HA	1.02	0.41
72:Ck:26:LYS:HA	72:Ck:69:LEU:HD13	2.03	0.41
73:Cl:43:HIS:CE1	73:Cl:44:TRP:NE1	2.89	0.41
74:CC:102:PHE:O	74:CC:103:ALA:C	2.64	0.41
74:CC:105:THR:CB	74:CC:109:ARG:HH22	2.10	0.41
74:CC:230:LEU:HG	74:CC:239:LYS:NZ	2.36	0.41
74:CC:287:THR:O	74:CC:288:ASP:CB	2.68	0.41
75:Cm:118:THR:HG22	75:Cm:119:ASN:N	2.36	0.41
77:Cp:30:GLU:HA	77:Cp:33:GLN:CD	2.46	0.41
78:Co:70:LEU:HD11	78:Co:83:LEU:HB3	2.03	0.41
79:CJ:57:VAL:HG12	79:CJ:57:VAL:O	2.19	0.41
79:CJ:120:ASP:HB2	79:CJ:123:ILE:HD12	2.03	0.41
80:CH:111:LEU:HD21	80:CH:127:ARG:HD2	0.44	0.41
81:CE:40:GLY:O	81:CE:41:LYS:HG3	2.21	0.41
81:CE:56:ARG:HG2	81:CE:57:TYR:CA	2.51	0.41
81:CE:58:SER:O	81:CE:59:ARG:C	2.60	0.41
81:CE:106:VAL:CG1	81:CE:108:LYS:H	2.33	0.41
81:CE:185:PRO:CB	81:CE:250:GLN:HE22	2.30	0.41
81:CE:219:LYS:HE2	85:A5:1291:G:C5'	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
82:CG:23:GLU:O	82:CG:25:LYS:N	2.54	0.41
82:CG:164:ILE:HG12	82:CG:168:VAL:HG22	1.94	0.41
82:CG:221:ALA:C	82:CG:224:THR:HG1	2.14	0.41
82:CG:229:ARG:O	82:CG:233:ILE:HG13	2.20	0.41
82:CG:239:GLY:O	82:CG:240:ASN:O	2.38	0.41
82:CG:261:LEU:O	82:CG:264:LYS:N	2.53	0.41
83:Cs:15:ILE:HG22	84:Cu:30:VAL:HG21	2.01	0.41
83:Cs:32:ILE:HG23	83:Cs:37:VAL:CG1	2.51	0.41
83:Cs:54:VAL:CG1	83:Cs:59:LEU:HD12	2.47	0.41
83:Ct:16:LEU:HG	83:Ct:31:LEU:HD11	1.95	0.41
84:Cu:3:TYR:O	84:Cu:6:SER:OG	2.34	0.41
84:Cv:26:ILE:O	84:Cv:30:VAL:HG23	2.19	0.41
84:Cv:27:LEU:HD11	84:Cv:39:LEU:HD21	2.00	0.41
85:A5:291:U:O2	85:A5:297:U:C2	2.74	0.41
85:A5:1271:G:H3'	85:A5:1272:C:H5'	2.02	0.41
85:A5:1316:G:H4'	85:A5:2348:G:C6	2.56	0.41
85:A5:1433:A:H2'	85:A5:1434:G:H5'	2.03	0.41
85:A5:1437:C:N4	85:A5:1447:C:H42	2.18	0.41
85:A5:1979:A:H3'	85:A5:1980:U:H5'	2.02	0.41
85:A5:2360:A:C8	85:A5:2362:U:C2	3.09	0.41
85:A5:2636:U:O2'	85:A5:2637:U:H5'	2.20	0.41
85:A5:2647:A:H62	85:A5:2686:G:C2'	2.33	0.41
85:A5:3861:A:C2	85:A5:3862:A:C4	3.09	0.41
85:A5:4624:A:H61	85:A5:4672:A:N6	2.19	0.41
85:A5:4714:C:C5	85:A5:4715:C:C5	3.09	0.41
86:A7:33:U:O2	86:A7:33:U:H2'	2.21	0.41
1:Az:114:GLU:OE1	1:Az:114:GLU:CA	2.61	0.41
1:Az:420:LEU:HB2	1:Az:464:VAL:C	2.46	0.41
1:Az:645:GLU:OE1	1:Az:665:ILE:HD13	2.20	0.41
1:Az:698:ARG:HB3	1:Az:741:MET:HE1	2.03	0.41
1:Az:823:ASP:O	1:Az:824:PRO:C	2.63	0.41
1:Az:823:ASP:CG	1:Az:826:ASP:H	2.28	0.41
4:AK:4:PRO:HG2	4:AK:7:ASN:ND2	2.35	0.41
6:AX:45:SER:C	6:AX:46:HIS:CD2	2.99	0.41
7:AM:117:GLU:O	7:AM:118:SER:CB	2.69	0.41
10:AN:3:ARG:H	36:B2:923:G:H5''	1.86	0.41
10:AN:59:GLY:C	10:AN:60:VAL:HG13	2.44	0.41
10:AN:84:LEU:HD11	10:AN:89:TYR:CA	2.51	0.41
10:AN:107:LYS:HD2	10:AN:107:LYS:HA	1.69	0.41
11:AL:77:VAL:CG1	11:AL:80:MET:SD	2.96	0.41
11:AL:133:PRO:O	36:B2:384:U:H5'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:58:ALA:N	82:CG:264:LYS:NZ	2.69	0.41
16:AA:126:ASP:O	16:AA:130:ASP:HB2	2.21	0.41
17:AV:50:PHE:HZ	28:AC:267:GLN:NE2	2.18	0.41
18:AY:29:HIS:HA	18:AY:30:PRO:HD2	1.97	0.41
18:AY:58:PHE:CD2	18:AY:58:PHE:N	2.89	0.41
23:AD:76:ARG:HD2	23:AD:76:ARG:O	2.21	0.41
24:Ae:28:LYS:HG2	24:Ae:33:LYS:HG3	2.03	0.41
26:AJ:82:VAL:HG21	26:AJ:92:MET:HG2	2.03	0.41
26:AJ:136:ARG:NH1	26:AJ:161:LEU:HB2	2.35	0.41
26:AJ:170:PRO:CD	26:AJ:175:ARG:CG	2.94	0.41
26:AJ:171:GLY:O	26:AJ:175:ARG:N	2.50	0.41
27:AE:166:THR:O	27:AE:168:LYS:CD	2.52	0.41
27:AE:185:GLY:HA2	27:AE:189:LEU:HD13	2.03	0.41
27:AE:260:GLN:OE1	27:AE:260:GLN:HA	2.20	0.41
30:AF:112:LEU:CB	30:AF:177:LEU:HD11	2.50	0.41
31:AH:107:LYS:HD3	31:AH:107:LYS:HA	1.86	0.41
31:AH:159:ASP:O	31:AH:190:PRO:HG3	2.21	0.41
32:AW:55:ASP:C	32:AW:57:ARG:H	2.29	0.41
33:AI:62:VAL:HG21	33:AI:75:LYS:HZ1	1.75	0.41
33:AI:73:THR:HG21	36:B2:302:A:H1'	2.02	0.41
33:AI:144:LYS:HD2	33:AI:144:LYS:HA	1.86	0.41
36:B2:193:C:O2'	36:B2:194:C:C5'	2.69	0.41
36:B2:688:U:C6	36:B2:742:U:C5	3.09	0.41
36:B2:928:G:H2'	36:B2:929:G:C8	2.56	0.41
38:Cz:93:LEU:C	38:Cz:93:LEU:CD2	2.94	0.41
39:Cq:168:GLY:C	39:Cq:171:GLU:CD	2.88	0.41
40:CK:59:THR:C	40:CK:60:VAL:HG23	2.46	0.41
40:CK:131:GLU:CB	40:CK:152:ILE:HG23	2.50	0.41
41:CO:108:ILE:CG2	41:CO:108:ILE:O	2.61	0.41
41:CO:126:VAL:HG13	41:CO:127:VAL:HG23	2.03	0.41
42:CL:198:ARG:N	42:CL:198:ARG:HD2	2.36	0.41
44:CM:63:LYS:CD	44:CM:64:PHE:N	2.82	0.41
46:CN:42:PRO:CD	46:CN:61:ILE:CD1	2.99	0.41
46:CN:149:GLN:HG3	46:CN:149:GLN:H	1.48	0.41
47:CI:9:TYR:CZ	47:CI:97:ILE:HG21	2.54	0.41
47:CI:210:ARG:HB2	48:CD:287:PHE:CE2	2.55	0.41
48:CD:122:GLN:HE21	48:CD:125:VAL:N	2.18	0.41
48:CD:258:LYS:C	48:CD:259:LYS:HG3	2.45	0.41
48:CD:263:LYS:HB3	48:CD:264:LYS:H	1.40	0.41
49:CQ:110:ARG:HG2	49:CQ:114:LEU:HD12	2.03	0.41
50:CR:130:ASN:C	50:CR:132:PHE:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:32:VAL:CG1	51:CA:163:ARG:NH1	2.83	0.41
51:CA:242:ARG:NH2	51:CA:247:ARG:CZ	2.74	0.41
52:CS:127:MET:HE3	53:CT:153:PRO:O	2.21	0.41
55:CU:20:LYS:HE2	55:CU:22:THR:HG23	2.02	0.41
57:CY:82:ILE:HD12	57:CY:99:ILE:HD13	2.02	0.41
59:CZ:97:ASN:CB	59:CZ:100:VAL:HG23	2.51	0.41
60:Cr:43:LEU:HA	60:Cr:45:HIS:N	2.35	0.41
60:Cr:96:MET:HE3	60:Cr:96:MET:CA	2.46	0.41
62:Cb:54:LEU:C	62:Cb:58:GLN:HB3	2.46	0.41
62:Cb:72:ILE:CG2	62:Cb:73:LYS:H	2.34	0.41
63:CB:32:PHE:CD2	63:CB:32:PHE:C	2.96	0.41
63:CB:235:TRP:CD1	63:CB:267:ALA:CB	2.95	0.41
64:CF:42:LEU:C	64:CF:42:LEU:CD2	2.93	0.41
64:CF:89:LEU:HD11	64:CF:122:PHE:CD1	2.55	0.41
64:CF:135:ILE:CG2	64:CF:136:VAL:HG13	2.51	0.41
64:CF:143:GLY:HA3	64:CF:240:ILE:HB	2.03	0.41
67:Ce:14:LYS:HD2	67:Ce:14:LYS:HA	1.81	0.41
67:Ce:66:THR:C	67:Ce:69:MET:SD	3.04	0.41
67:Ce:108:ARG:HG2	67:Ce:127:ALA:CB	2.51	0.41
69:Cg:57:ARG:HE	69:Cg:59:VAL:CB	2.29	0.41
70:Ci:67:LYS:HG3	70:Ci:68:ARG:N	2.36	0.41
71:Cj:85:LYS:HZ2	71:Cj:87:LYS:HG2	1.86	0.41
74:CC:108:TRP:O	74:CC:109:ARG:C	2.52	0.41
78:Co:15:CYS:HG	78:Co:77:CYS:HG	1.68	0.41
78:Co:41:TYR:CE1	78:Co:53:LYS:HG3	2.56	0.41
79:CJ:104:ASN:OD1	79:CJ:133:VAL:HG13	2.21	0.41
81:CE:112:MET:N	81:CE:113:PRO:CD	2.63	0.41
82:CG:181:TYR:CD2	82:CG:227:ASN:OD1	2.71	0.41
85:A5:227:A:C2'	85:A5:228:C:O5'	2.69	0.41
85:A5:511:C:C2	85:A5:649:A:C2	3.08	0.41
85:A5:1078:A:H2	85:A5:1233:G:O6	2.04	0.41
85:A5:1267:C:H1'	85:A5:1268:G:C8	2.56	0.41
85:A5:4936:G:C2	85:A5:4938:A:C6	3.09	0.41
1:Az:499:PHE:O	1:Az:500:SER:O	2.38	0.40
1:Az:578:SER:O	1:Az:579:TYR:CG	2.74	0.40
1:Az:755:VAL:HG12	1:Az:755:VAL:O	2.20	0.40
8:AS:12:ILE:C	8:AS:13:LEU:HD23	2.46	0.40
9:Ad:27:ARG:NH2	36:B2:1263:U:H4'	2.31	0.40
11:AL:73:LEU:HD22	11:AL:90:ARG:NH2	2.37	0.40
12:AR:111:PHE:CD1	16:AA:15:VAL:HG21	2.56	0.40
14:AT:4:VAL:O	14:AT:5:THR:C	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AB:127:VAL:HG11	15:AB:176:VAL:HB	2.02	0.40
16:AA:33:GLN:NE2	21:Ab:2:PRO:HB3	2.36	0.40
16:AA:111:GLN:HE22	16:AA:116:PHE:HZ	1.67	0.40
17:AV:24:ILE:HD13	17:AV:25:GLY:CA	2.38	0.40
17:AV:41:LYS:HB3	17:AV:42:VAL:H	1.55	0.40
19:AZ:104:ARG:HB3	19:AZ:105:ALA:H	1.63	0.40
20:Aa:87:ARG:O	20:Aa:92:ARG:HG2	2.21	0.40
21:Ab:12:PRO:O	21:Ab:16:LYS:HE2	2.21	0.40
23:AD:29:LEU:CD1	23:AD:50:ILE:HG21	2.51	0.40
24:Ae:12:VAL:CG1	24:Ae:16:THR:CG2	3.00	0.40
26:AJ:136:ARG:HG2	26:AJ:141:VAL:CA	2.51	0.40
27:AE:86:PHE:CZ	27:AE:182:MET:HE3	2.37	0.40
28:AC:60:TRP:CD1	28:AC:61:MET:N	2.89	0.40
28:AC:135:GLY:O	28:AC:165:VAL:HG22	2.22	0.40
28:AC:137:VAL:HG11	28:AC:217:ALA:CA	2.52	0.40
29:AG:64:LYS:CE	29:AG:65:GLN:O	2.69	0.40
29:AG:145:PHE:CB	29:AG:147:LEU:HD13	2.47	0.40
30:AF:145:ARG:O	30:AF:149:GLN:HG2	2.21	0.40
31:AH:46:THR:CG2	31:AH:47:ALA:N	2.84	0.40
31:AH:121:THR:HG22	31:AH:124:ALA:HB2	2.02	0.40
32:AW:37:PHE:CE1	32:AW:103:VAL:CG1	3.03	0.40
34:AQ:135:PRO:HD2	34:AQ:141:TYR:HD1	1.80	0.40
35:Ah:155:ARG:CA	35:Ah:159:ASP:OD1	2.68	0.40
36:B2:394:G:H5''	36:B2:394:G:C8	2.56	0.40
36:B2:887:U:C6	36:B2:888:U:C5	3.09	0.40
36:B2:1620:A:H4'	36:B2:1621:U:H6	1.86	0.40
38:Cz:88:GLU:CD	38:Cz:88:GLU:H	2.27	0.40
38:Cz:175:THR:HG22	38:Cz:178:GLU:CG	2.51	0.40
39:Cq:57:LYS:HB2	39:Cq:58:ASN:H	1.22	0.40
40:CK:59:THR:O	40:CK:80:LEU:HD11	2.21	0.40
40:CK:105:THR:O	40:CK:106:PHE:CD1	2.73	0.40
40:CK:110:VAL:O	40:CK:114:ARG:NE	2.54	0.40
41:CO:49:ARG:CG	41:CO:49:ARG:NH1	2.80	0.40
41:CO:50:ASN:HD22	41:CO:136:ALA:CB	2.31	0.40
42:CL:75:GLY:HA3	42:CL:99:ASP:CB	2.51	0.40
42:CL:176:PHE:HD1	42:CL:177:LYS:N	2.19	0.40
44:CM:35:ARG:HA	44:CM:50:MET:O	2.21	0.40
44:CM:96:GLU:CD	44:CM:96:GLU:C	2.89	0.40
46:CN:36:LEU:CD2	46:CN:109:HIS:CG	3.02	0.40
47:CI:68:ALA:HB3	47:CI:159:PHE:HZ	1.85	0.40
47:CI:74:LYS:HE3	47:CI:74:LYS:HB2	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CD:130:TYR:CE2	48:CD:132:VAL:N	2.89	0.40
48:CD:246:ALA:CA	48:CD:249:GLU:HG2	2.48	0.40
49:CQ:19:LYS:HG2	85:A5:1349:G:H5''	2.01	0.40
49:CQ:50:ARG:HD2	49:CQ:53:MET:SD	2.61	0.40
49:CQ:72:LEU:CA	49:CQ:75:ARG:HG2	2.50	0.40
49:CQ:101:CYS:SG	49:CQ:121:LEU:CB	3.06	0.40
49:CQ:150:ARG:CB	49:CQ:164:LYS:HB2	2.26	0.40
50:CR:82:LYS:HG3	85:A5:2811:G:H4'	2.03	0.40
50:CR:102:LEU:O	50:CR:106:LEU:HD13	2.21	0.40
51:CA:17:ARG:HG2	51:CA:18:ALA:H	1.85	0.40
51:CA:207:VAL:HG11	85:A5:1633:G:N1	2.37	0.40
52:CS:13:VAL:HB	52:CS:28:TYR:O	2.21	0.40
53:CT:85:LEU:HD23	53:CT:85:LEU:HA	1.77	0.40
54:CP:39:MET:C	54:CP:113:VAL:HG13	2.46	0.40
54:CP:97:ASN:HD21	85:A5:399:G:H1'	1.86	0.40
54:CP:110:ASP:O	54:CP:112:LEU:N	2.54	0.40
55:CU:27:HIS:CD2	55:CU:114:TYR:N	2.88	0.40
55:CU:60:VAL:CA	55:CU:76:VAL:H	2.34	0.40
56:CX:146:ALA:O	56:CX:150:ALA:N	2.52	0.40
57:CY:35:SER:CA	57:CY:105:VAL:CG2	3.00	0.40
59:CZ:11:VAL:HG12	59:CZ:12:LEU:O	2.21	0.40
60:Cr:51:VAL:HA	60:Cr:62:VAL:O	2.20	0.40
60:Cr:71:ARG:HD2	60:Cr:79:ARG:HB3	2.01	0.40
60:Cr:81:THR:HG22	60:Cr:82:ILE:N	2.36	0.40
60:Cr:120:SER:HA	60:Cr:123:PRO:HG3	2.03	0.40
61:Ch:59:THR:HG22	87:A8:60:G:C2	2.56	0.40
62:Cb:54:LEU:CD2	62:Cb:58:GLN:OE1	2.69	0.40
63:CB:298:LEU:O	63:CB:300:LYS:CE	2.69	0.40
65:Cc:11:LEU:CA	65:Cc:12:GLU:HG3	2.50	0.40
65:Cc:27:TYR:CD1	65:Cc:27:TYR:C	2.95	0.40
68:Cf:71:TRP:CD1	68:Cf:71:TRP:N	2.86	0.40
69:Cg:26:PRO:C	69:Cg:28:ASN:N	2.78	0.40
70:Ci:26:HIS:C	70:Ci:28:ARG:N	2.79	0.40
71:Cj:49:TRP:CZ3	85:A5:1646:A:H1'	2.57	0.40
72:Ck:11:PHE:CD1	72:Ck:11:PHE:C	2.99	0.40
74:CC:5:ARG:CB	74:CC:24:LEU:CD1	2.95	0.40
74:CC:64:ALA:HB1	74:CC:78:ARG:O	2.20	0.40
74:CC:133:LEU:CG	74:CC:136:LEU:HG	2.49	0.40
74:CC:156:ASP:C	74:CC:158:VAL:H	2.29	0.40
74:CC:259:LYS:O	74:CC:262:GLU:CA	2.69	0.40
77:Cp:48:LYS:HD2	77:Cp:49:ARG:CA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:Co:14:LYS:HA	78:Co:14:LYS:HD2	1.71	0.40
80:CH:86:LEU:HD23	80:CH:189:GLN:CD	2.46	0.40
81:CE:181:LEU:HD13	81:CE:268:GLN:HA	2.01	0.40
82:CG:31:LEU:HB2	82:CG:32:PHE:HD1	1.86	0.40
83:Ct:23:VAL:C	83:Ct:24:THR:HG23	2.47	0.40
83:Ct:52:ALA:O	83:Ct:53:ASN:HB2	2.20	0.40
84:Cv:30:VAL:O	84:Cv:30:VAL:CG1	2.68	0.40
85:A5:1198:G:H2'	85:A5:1199:G:C8	2.56	0.40
85:A5:1218:G:C3'	85:A5:1219:G:H5''	2.50	0.40
85:A5:1271:G:H5''	85:A5:1272:C:C6	2.56	0.40
85:A5:1371:A:C8	85:A5:1371:A:C3'	3.04	0.40
85:A5:2259:G:H3'	85:A5:2260:C:C5'	2.51	0.40
1:Az:570:ILE:H	1:Az:570:ILE:HG12	1.74	0.40
1:Az:578:SER:C	1:Az:579:TYR:CG	2.96	0.40
1:Az:677:ASP:OD1	1:Az:677:ASP:O	2.39	0.40
1:Az:791:ASN:CA	1:Az:794:PHE:CE1	3.00	0.40
2:Ag:218:LEU:HD23	2:Ag:230:LEU:HD11	2.02	0.40
2:Ag:240:CYS:SG	2:Ag:291:TRP:CD1	3.07	0.40
2:Ag:289:LEU:CD2	2:Ag:289:LEU:N	2.82	0.40
3:AU:16:ALA:C	3:AU:17:ILE:HG13	2.46	0.40
4:AK:4:PRO:CG	4:AK:7:ASN:CB	2.92	0.40
4:AK:42:ASN:O	4:AK:43:LEU:CG	2.70	0.40
4:AK:42:ASN:CG	4:AK:46:MET:HB2	2.46	0.40
5:AO:62:VAL:CG1	5:AO:63:LYS:N	2.84	0.40
7:AM:35:ILE:HB	7:AM:61:TYR:CZ	2.56	0.40
7:AM:78:LYS:HD2	7:AM:79:VAL:H	1.87	0.40
7:AM:93:LYS:O	7:AM:94:ILE:C	2.61	0.40
8:AS:85:ASN:CG	8:AS:98:VAL:H	2.29	0.40
10:AN:37:ILE:HD11	10:AN:63:VAL:CG1	2.51	0.40
10:AN:94:LYS:HE2	36:B2:1010:G:OP1	2.21	0.40
11:AL:139:ARG:HG2	36:B2:352:U:C5'	2.51	0.40
12:AR:7:LYS:O	12:AR:11:LYS:HG3	2.21	0.40
16:AA:14:ASP:C	16:AA:18:PHE:CD2	2.99	0.40
16:AA:202:TYR:O	16:AA:203:PHE:HB2	2.21	0.40
18:AY:54:VAL:HG12	18:AY:75:ILE:HG23	2.02	0.40
18:AY:62:THR:OG1	36:B2:581:U:H4'	2.21	0.40
22:Ac:51:ARG:CB	30:AF:61:PHE:CE1	2.59	0.40
22:Ac:67:ARG:C	22:Ac:68:LEU:CG	2.89	0.40
23:AD:76:ARG:HD2	23:AD:76:ARG:C	2.46	0.40
23:AD:158:ILE:HD12	23:AD:189:MET:HE2	1.84	0.40
24:Ae:49:PHE:C	24:Ae:49:PHE:CD2	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:54:ARG:NH2	28:AC:201:GLY:C	2.78	0.40
26:AJ:132:GLN:O	36:B2:562:U:H4'	2.21	0.40
28:AC:65:LYS:HG2	28:AC:66:LEU:N	2.36	0.40
29:AG:28:TYR:O	29:AG:29:GLU:HB3	2.21	0.40
29:AG:64:LYS:HG2	29:AG:67:VAL:CG1	2.49	0.40
29:AG:171:THR:HB	36:B2:75:G:N2	2.36	0.40
29:AG:227:GLN:C	29:AG:230:LYS:HG3	2.47	0.40
30:AF:36:GLN:C	30:AF:37:ASP:OD1	2.64	0.40
31:AH:101:LEU:CG	31:AH:120:ARG:HG2	2.38	0.40
32:AW:78:ARG:HD3	32:AW:126:LEU:HD23	2.00	0.40
34:AQ:61:GLU:O	34:AQ:62:ARG:C	2.63	0.40
34:AQ:131:LYS:O	34:AQ:132:PHE:C	2.63	0.40
36:B2:1649:U:O2	36:B2:1675:A:C2	2.74	0.40
36:B2:1823:A:H4'	36:B2:1824:A:C4'	2.51	0.40
37:BC:55:C:C6	85:A5:4046:A:H1'	2.56	0.40
38:Cz:14:VAL:CG2	38:Cz:15:ARG:N	2.83	0.40
38:Cz:47:LYS:H	38:Cz:47:LYS:CD	2.34	0.40
38:Cz:110:PHE:CE2	38:Cz:128:LEU:CD2	3.00	0.40
38:Cz:134:PHE:CE2	38:Cz:135:PRO:O	2.74	0.40
39:Cq:11:SER:HA	39:Cq:14:PHE:CD2	2.56	0.40
39:Cq:26:LYS:HE2	39:Cq:94:ASP:H	1.72	0.40
39:Cq:127:ASN:HB3	39:Cq:153:GLU:HG2	2.02	0.40
39:Cq:161:ILE:CD1	39:Cq:167:VAL:HG13	2.52	0.40
39:Cq:171:GLU:O	39:Cq:175:LEU:HG	2.22	0.40
39:Cq:261:LEU:O	39:Cq:264:LYS:HG2	2.21	0.40
40:CK:50:THR:HG21	40:CK:72:GLU:HB2	2.01	0.40
40:CK:97:ASN:N	40:CK:98:ILE:CA	2.84	0.40
41:CO:185:VAL:HG22	44:CM:126:GLU:HB2	1.68	0.40
42:CL:63:THR:HG1	42:CL:66:TYR:HD2	0.61	0.40
44:CM:63:LYS:HD2	44:CM:64:PHE:N	2.36	0.40
44:CM:77:TRP:HD1	44:CM:82:ILE:CG1	1.94	0.40
45:Ca:61:TYR:CD1	85:A5:294:G:N7	2.89	0.40
46:CN:150:TRP:CE2	46:CN:151:ILE:CG1	3.00	0.40
47:CI:4:ARG:HG2	47:CI:5:PRO:HD3	2.03	0.40
47:CI:32:ARG:HA	47:CI:32:ARG:HD3	1.83	0.40
47:CI:46:PHE:HB3	47:CI:140:THR:CA	2.51	0.40
47:CI:106:ALA:HB3	47:CI:108:ALA:CA	2.41	0.40
48:CD:120:GLU:H	48:CD:120:GLU:HG2	1.73	0.40
49:CQ:105:VAL:CG1	49:CQ:110:ARG:HB2	2.49	0.40
49:CQ:157:GLY:H	49:CQ:159:PRO:HD3	1.85	0.40
51:CA:70:LYS:HG2	51:CA:72:ARG:HE	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:CA:98:ILE:HD13	77:Cp:80:LYS:HE2	2.02	0.40
52:CS:120:ARG:C	52:CS:122:HIS:N	2.78	0.40
53:CT:31:MET:HE2	53:CT:31:MET:HB3	1.86	0.40
53:CT:80:VAL:N	53:CT:83:LYS:H	2.18	0.40
53:CT:81:LYS:N	62:Cb:16:TRP:HH2	2.15	0.40
54:CP:107:LEU:HA	54:CP:107:LEU:HD22	1.63	0.40
55:CU:37:ALA:CB	55:CU:65:ARG:HH12	2.32	0.40
57:CY:49:ILE:HD12	57:CY:101:PRO:HB2	1.74	0.40
57:CY:69:LYS:H	57:CY:83:GLU:HB2	1.85	0.40
57:CY:126:ARG:CZ	57:CY:130:LYS:HD3	2.49	0.40
58:CW:88:ALA:C	58:CW:90:ILE:H	2.29	0.40
59:CZ:14:LEU:O	59:CZ:14:LEU:HD12	2.20	0.40
59:CZ:21:ARG:HD2	59:CZ:49:TYR:CZ	2.56	0.40
59:CZ:109:LYS:HG3	59:CZ:110:ALA:N	2.31	0.40
60:Cr:16:PHE:HB3	60:Cr:28:GLU:OE1	2.21	0.40
60:Cr:136:SER:CB	60:Cr:137:SER:O	2.68	0.40
61:Ch:4:ILE:CA	61:Ch:5:LYS:HG2	2.52	0.40
63:CB:60:VAL:CG2	63:CB:72:VAL:HG13	2.51	0.40
63:CB:141:ASP:OD2	63:CB:141:ASP:C	2.62	0.40
63:CB:175:GLN:O	63:CB:176:LYS:HB2	2.22	0.40
64:CF:160:GLY:CA	64:CF:207:PHE:CE2	3.02	0.40
66:Cd:77:ILE:O	66:Cd:77:ILE:HG22	2.21	0.40
67:Ce:16:ARG:CZ	67:Ce:17:THR:OG1	2.70	0.40
68:Cf:6:TRP:C	68:Cf:103:VAL:O	2.65	0.40
70:Ci:24:PRO:C	70:Ci:25:ARG:HG2	2.46	0.40
70:Ci:31:GLY:CA	85:A5:308:G:C8	3.04	0.40
74:CC:39:PHE:CD1	74:CC:40:VAL:N	2.74	0.40
74:CC:44:LEU:C	74:CC:46:LYS:N	2.54	0.40
74:CC:122:TYR:CE1	74:CC:280:PRO:HB2	2.49	0.40
74:CC:149:GLU:O	74:CC:152:LEU:HD13	2.21	0.40
74:CC:232:VAL:HG13	74:CC:260:LEU:HD23	2.00	0.40
79:CJ:31:ASP:O	79:CJ:35:ARG:HB2	2.20	0.40
81:CE:280:GLY:HA2	81:CE:282:TYR:HE2	1.84	0.40
82:CG:88:ASP:OD1	82:CG:89:ARG:NH1	2.52	0.40
83:Ct:15:ILE:HD11	84:Cv:9:LEU:CG	2.44	0.40
85:A5:149:A:H5''	85:A5:151:G:O4'	2.21	0.40
85:A5:1688:G:H2'	85:A5:1689:G:C8	2.57	0.40
85:A5:2022:C:H3'	85:A5:2023:C:C6	2.56	0.40
85:A5:3795:A:C5	85:A5:3796:U:C4	3.10	0.40
85:A5:3965:A:C2	85:A5:4047:A:C6	3.09	0.40
85:A5:4948:C:C4	85:A5:4949:G:O6	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
86:A7:118:C:N3	86:A7:119:U:C5	2.89	0.40
1:Az:60:ARG:HB3	1:Az:63:GLU:HB2	2.02	0.40
1:Az:71:LYS:HB3	1:Az:71:LYS:HE3	1.75	0.40
1:Az:71:LYS:HB3	1:Az:72:SER:H	1.80	0.40
1:Az:481:LYS:HE3	1:Az:481:LYS:HB2	1.84	0.40
1:Az:793:SER:O	1:Az:794:PHE:C	2.58	0.40
2:Ag:4:GLN:CG	2:Ag:5:MET:N	2.83	0.40
2:Ag:102:VAL:CG1	2:Ag:103:GLY:N	2.83	0.40
2:Ag:218:LEU:HD13	2:Ag:218:LEU:HA	1.93	0.40
4:AK:53:LYS:HB3	4:AK:58:VAL:HG13	2.03	0.40
5:AO:42:VAL:HG12	5:AO:43:HIS:N	2.35	0.40
7:AM:35:ILE:CD1	7:AM:61:TYR:CE2	3.02	0.40
8:AS:28:PHE:O	8:AS:31:THR:OG1	2.29	0.40
9:Ad:36:LEU:HA	23:AD:16:ILE:CD1	2.52	0.40
11:AL:21:LYS:HD3	11:AL:21:LYS:HA	1.73	0.40
11:AL:122:ILE:O	11:AL:122:ILE:HG13	2.21	0.40
13:AP:30:TYR:OH	13:AP:51:ARG:NH1	2.54	0.40
13:AP:82:ASP:CG	36:B2:1619:A:O2'	2.58	0.40
15:AB:49:VAL:CG2	15:AB:65:ARG:CZ	2.95	0.40
15:AB:140:VAL:CG1	15:AB:211:PHE:HD2	2.33	0.40
16:AA:7:VAL:HG13	17:AV:43:THR:CG2	2.51	0.40
16:AA:36:GLN:O	16:AA:53:ARG:NH1	2.55	0.40
16:AA:85:ARG:HD3	16:AA:203:PHE:O	2.21	0.40
16:AA:97:THR:HA	16:AA:98:PRO:HD3	1.77	0.40
16:AA:191:ARG:HD3	16:AA:193:HIS:CD2	2.56	0.40
17:AV:12:TYR:CE2	28:AC:248:TYR:CZ	3.09	0.40
19:AZ:52:LYS:C	19:AZ:54:THR:N	2.77	0.40
20:Aa:45:VAL:C	20:Aa:46:GLU:HG3	2.46	0.40
22:Ac:10:LYS:HB2	22:Ac:58:LEU:HB2	2.03	0.40
22:Ac:15:THR:HG21	22:Ac:33:GLU:CD	2.45	0.40
22:Ac:59:LEU:HB2	30:AF:204:ARG:NH1	2.36	0.40
23:AD:98:ALA:HA	23:AD:188:ILE:CD1	2.50	0.40
23:AD:170:THR:CG2	23:AD:171:ALA:N	2.84	0.40
23:AD:177:LEU:HD12	23:AD:177:LEU:HA	1.93	0.40
24:Ae:28:LYS:HD3	24:Ae:36:MET:HE2	2.03	0.40
28:AC:63:VAL:CG2	28:AC:90:GLU:HG2	2.52	0.40
28:AC:157:LEU:HA	28:AC:160:LEU:HD22	1.80	0.40
28:AC:191:VAL:HG11	28:AC:236:PHE:HA	2.03	0.40
29:AG:217:MET:HG2	29:AG:217:MET:H	1.62	0.40
30:AF:86:LYS:HA	30:AF:89:THR:HG22	2.04	0.40
31:AH:83:LEU:HD12	31:AH:84:GLU:CA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:AH:145:ARG:HD3	31:AH:155:LYS:NZ	2.36	0.40
32:AW:49:GLU:H	32:AW:64:ASN:HD22	1.69	0.40
32:AW:107:SER:HA	36:B2:862:A:C4	2.56	0.40
33:AI:25:ARG:NE	33:AI:27:TYR:OH	2.54	0.40
33:AI:66:SER:HB3	33:AI:73:THR:HB	2.04	0.40
33:AI:139:LYS:HD2	33:AI:149:TYR:OH	2.21	0.40
34:AQ:78:VAL:O	34:AQ:82:TYR:HD2	2.05	0.40
35:Ah:175:ARG:O	35:Ah:176:GLY:O	2.39	0.40
36:B2:1045:U:C5	36:B2:1046:U:C5	3.09	0.40
36:B2:1866:A:H2'	36:B2:1867:U:C6	2.56	0.40
38:Cz:111:LEU:HD23	38:Cz:112:ALA:N	2.37	0.40
39:Cq:6:ARG:CD	39:Cq:10:LYS:HE2	2.46	0.40
40:CK:56:LEU:O	40:CK:91:ASP:OD1	2.39	0.40
41:CO:182:GLU:O	41:CO:186:GLU:CB	2.70	0.40
42:CL:52:SER:OG	42:CL:153:PRO:HD3	2.21	0.40
42:CL:61:CYS:HA	42:CL:62:PRO:HD3	1.92	0.40
42:CL:67:HIS:CG	85:A5:72:C:C5	3.09	0.40
42:CL:144:LEU:HD12	42:CL:150:LEU:HG	2.02	0.40
44:CM:77:TRP:O	44:CM:81:ASP:N	2.53	0.40
45:Ca:3:SER:CA	45:Ca:6:ARG:HG3	2.36	0.40
45:Ca:76:ASP:HB3	45:Ca:77:LYS:HD3	2.03	0.40
46:CN:56:LYS:HZ1	46:CN:145:ASN:ND2	2.14	0.40
46:CN:68:ARG:HA	46:CN:98:LEU:HD11	2.02	0.40
46:CN:73:ARG:HB3	46:CN:75:VAL:HG22	2.03	0.40
46:CN:192:TRP:CA	46:CN:195:ARG:HG2	2.52	0.40
48:CD:104:LEU:CG	48:CD:247:ILE:HD13	2.51	0.40
48:CD:107:ARG:NH1	48:CD:107:ARG:HG2	2.37	0.40
48:CD:115:MET:HE3	48:CD:139:PRO:HG2	2.01	0.40
50:CR:133:LYS:HG3	50:CR:134:ASN:N	2.35	0.40
51:CA:61:VAL:HB	51:CA:76:PHE:CD2	2.56	0.40
52:CS:12:VAL:CB	52:CS:44:PHE:CD1	2.97	0.40
52:CS:78:PHE:HD1	52:CS:130:GLU:O	2.05	0.40
52:CS:137:CYS:SG	52:CS:143:LYS:HB3	2.53	0.40
53:CT:35:LYS:O	53:CT:38:ASP:CG	2.64	0.40
56:CX:79:PHE:HD1	61:Ch:32:ARG:HD3	1.87	0.40
57:CY:60:GLY:O	57:CY:61:HIS:C	2.63	0.40
58:CW:16:GLY:O	58:CW:17:HIS:CG	2.75	0.40
60:Cr:54:ALA:HB3	60:Cr:57:GLY:N	2.37	0.40
60:Cr:90:LEU:CD2	60:Cr:114:ALA:HB1	2.51	0.40
60:Cr:97:ILE:CG2	60:Cr:110:ALA:HB1	2.48	0.40
61:Ch:46:LYS:O	61:Ch:50:VAL:HG23	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:CB:201:LEU:HD12	63:CB:201:LEU:N	2.37	0.40
63:CB:217:ILE:HD12	63:CB:347:LEU:HD12	2.04	0.40
64:CF:135:ILE:HG23	64:CF:136:VAL:HG13	2.03	0.40
64:CF:179:LEU:HB3	64:CF:184:ILE:HB	2.04	0.40
66:Cd:29:ILE:HG21	66:Cd:33:ILE:CD1	2.45	0.40
66:Cd:108:TYR:CG	66:Cd:109:VAL:N	2.89	0.40
68:Cf:4:ARG:CB	81:CE:277:LEU:O	2.68	0.40
68:Cf:53:ALA:O	68:Cf:54:LYS:O	2.40	0.40
68:Cf:92:LEU:HA	68:Cf:93:PRO:HD3	1.75	0.40
72:Ck:21:LYS:O	72:Ck:65:ALA:CB	2.70	0.40
74:CC:47:ASN:OD1	74:CC:112:HIS:HA	2.22	0.40
74:CC:140:LYS:HD3	74:CC:246:VAL:O	2.21	0.40
74:CC:144:ILE:CD1	74:CC:249:PHE:HB2	2.46	0.40
78:Co:91:PHE:CD2	78:Co:91:PHE:C	2.95	0.40
79:CJ:87:LEU:O	79:CJ:88:LYS:C	2.64	0.40
80:CH:117:PHE:CE2	80:CH:118:LEU:HD12	2.56	0.40
81:CE:31:ASN:CA	81:CE:32:LEU:CD2	2.93	0.40
82:CG:32:PHE:C	82:CG:33:GLU:CG	2.59	0.40
84:Cu:17:SER:HA	84:Cu:18:PRO:HD2	1.74	0.40
84:Cu:27:LEU:HD12	84:Cu:39:LEU:HD21	2.02	0.40
85:A5:505:G:H2'	85:A5:506:C:C6	2.57	0.40
85:A5:1546:C:N3	85:A5:1612:G:O6	2.54	0.40
85:A5:1646:A:H2'	85:A5:1647:U:C6	2.56	0.40
85:A5:2266:C:O2'	85:A5:2267:U:P	2.79	0.40
85:A5:2766:A:H3'	85:A5:2767:U:C6	2.56	0.40
85:A5:2771:G:C2'	85:A5:2772:C:H5'	2.51	0.40
1:Az:70:ILE:O	1:Az:71:LYS:CD	2.70	0.40
1:Az:103:ILE:O	1:Az:103:ILE:HD12	2.22	0.40
1:Az:160:MET:HE1	1:Az:178:PHE:HE2	1.78	0.40
2:Ag:20:GLN:CG	2:Ag:67:SER:O	2.70	0.40
2:Ag:232:GLY:CA	2:Ag:257:LYS:HZ1	2.34	0.40
2:Ag:258:ILE:HG13	2:Ag:268:ASP:H	1.86	0.40
3:AU:67:LYS:HG3	3:AU:78:ASP:CG	2.47	0.40
3:AU:68:THR:CB	3:AU:70:CYS:O	2.69	0.40
3:AU:75:LYS:H	3:AU:75:LYS:HG3	1.25	0.40
3:AU:79:ARG:NH2	36:B2:1668:U:O3'	2.54	0.40
4:AK:9:ILE:HG23	4:AK:10:ALA:N	2.35	0.40
5:AO:84:ARG:HA	5:AO:87:GLU:CB	2.47	0.40
5:AO:103:ASN:O	5:AO:104:ARG:O	2.38	0.40
8:AS:61:GLU:CA	8:AS:64:VAL:HG22	2.51	0.40
8:AS:139:THR:C	8:AS:141:ARG:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:71:ARG:CG	11:AL:73:LEU:CD2	2.97	0.40
11:AL:107:LYS:CD	36:B2:354:U:OP2	2.69	0.40
14:AT:102:ARG:HD3	14:AT:105:GLN:OE1	2.21	0.40
16:AA:134:LEU:CD2	16:AA:144:THR:HG21	2.52	0.40
16:AA:186:ARG:HH11	16:AA:186:ARG:CA	2.33	0.40
16:AA:186:ARG:NH1	16:AA:187:GLY:N	2.67	0.40
17:AV:41:LYS:HA	17:AV:41:LYS:HD2	1.39	0.40
19:AZ:104:ARG:HD2	19:AZ:104:ARG:HA	1.37	0.40
20:Aa:66:LYS:HB2	20:Aa:68:TYR:CZ	2.54	0.40
23:AD:69:LEU:HB2	23:AD:86:LEU:HD22	2.04	0.40
23:AD:97:CYS:O	23:AD:99:ILE:CA	2.60	0.40
24:Ae:3:HIS:O	24:Ae:4:GLY:O	2.39	0.40
27:AE:31:PRO:CG	27:AE:38:LEU:HD13	2.45	0.40
27:AE:34:GLY:HA3	27:AE:83:PRO:CG	2.51	0.40
27:AE:118:GLU:C	27:AE:120:LYS:H	2.28	0.40
27:AE:201:HIS:NE2	36:B2:857:U:H5''	2.37	0.40
28:AC:170:TRP:HB2	28:AC:178:HIS:HE1	1.86	0.40
29:AG:122:PRO:CD	29:AG:123:GLY:N	2.83	0.40
29:AG:144:LEU:O	29:AG:144:LEU:HG	2.21	0.40
30:AF:20:PHE:CZ	30:AF:50:PRO:HG3	2.56	0.40
31:AH:79:LEU:C	31:AH:79:LEU:CD2	2.94	0.40
31:AH:92:VAL:O	31:AH:93:VAL:HB	2.22	0.40
34:AQ:88:ILE:O	34:AQ:91:ALA:HB3	2.21	0.40
34:AQ:107:GLU:O	34:AQ:111:ILE:HG13	2.22	0.40
36:B2:1396:A:H5''	36:B2:1396:A:N3	2.37	0.40
36:B2:1434:C:C3'	36:B2:1435:C:O4'	2.69	0.40
36:B2:1595:U:C5	36:B2:1596:U:C5	3.08	0.40
38:Cz:41:TYR:CE1	38:Cz:43:PRO:CA	2.99	0.40
39:Cq:63:LYS:HD3	39:Cq:78:LEU:CB	2.51	0.40
40:CK:61:LYS:CD	40:CK:72:GLU:C	2.94	0.40
41:CO:3:GLU:H	41:CO:3:GLU:HG2	1.32	0.40
41:CO:181:ALA:HB1	44:CM:126:GLU:C	2.46	0.40
41:CO:190:ASP:HA	41:CO:191:LYS:HB3	1.99	0.40
41:CO:199:HIS:CD2	41:CO:200:GLY:N	2.89	0.40
42:CL:29:PRO:CG	42:CL:30:ALA:H	2.34	0.40
44:CM:41:PRO:CG	44:CM:73:VAL:CG2	2.54	0.40
45:Ca:48:TYR:HA	49:CQ:156:PRO:CG	2.51	0.40
47:CI:174:THR:CB	47:CI:176:PHE:CD2	2.79	0.40
48:CD:90:VAL:CG2	48:CD:226:TYR:OH	2.69	0.40
48:CD:262:LYS:CA	48:CD:263:LYS:HB2	2.51	0.40
49:CQ:34:PHE:CE2	74:CC:293:LEU:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:CQ:90:VAL:O	49:CQ:91:ARG:C	2.58	0.40
50:CR:4:LEU:HD12	50:CR:32:ILE:HG22	2.04	0.40
51:CA:115:CYS:O	51:CA:115:CYS:SG	2.79	0.40
52:CS:85:ASP:OD1	52:CS:90:THR:HB	2.21	0.40
54:CP:18:ARG:HG2	85:A5:399:G:H4'	2.03	0.40
55:CU:66:SER:O	55:CU:67:LYS:HG3	2.18	0.40
56:CX:60:TYR:CE2	61:Ch:78:TYR:O	2.55	0.40
56:CX:110:LYS:HG2	56:CX:114:LYS:HE2	2.04	0.40
58:CW:14:TYR:OH	63:CB:380:GLN:HG2	2.19	0.40
58:CW:31:PHE:CZ	58:CW:40:PHE:CD2	3.09	0.40
58:CW:110:ARG:HD2	58:CW:113:LYS:HD2	2.02	0.40
59:CZ:91:LEU:CB	59:CZ:117:LYS:HE2	2.50	0.40
59:CZ:92:ASP:HB3	59:CZ:117:LYS:NZ	2.31	0.40
61:Ch:79:LYS:CB	61:Ch:80:PRO:CD	2.99	0.40
63:CB:57:VAL:HB	63:CB:367:PHE:HB3	2.04	0.40
63:CB:90:VAL:HG12	63:CB:161:ARG:HB2	2.02	0.40
64:CF:105:VAL:HA	64:CF:135:ILE:HD12	2.04	0.40
66:Cd:59:THR:OG1	66:Cd:90:ARG:NE	2.54	0.40
67:Ce:16:ARG:HG3	67:Ce:18:LYS:N	2.34	0.40
68:Cf:4:ARG:HB3	81:CE:277:LEU:O	2.20	0.40
69:Cg:9:ARG:NH1	69:Cg:9:ARG:HG2	2.35	0.40
69:Cg:98:GLU:O	69:Cg:102:ILE:HD12	2.22	0.40
72:Ck:7:GLU:HB3	72:Ck:10:ASP:H	1.86	0.40
74:CC:109:ARG:HA	85:A5:1341:U:H5'	2.02	0.40
74:CC:137:VAL:HG13	74:CC:142:HIS:ND1	2.37	0.40
74:CC:260:LEU:O	74:CC:264:TYR:HD2	2.04	0.40
76:Cn:22:GLN:HA	76:Cn:25:LYS:HE3	2.04	0.40
78:Co:11:PHE:CE1	78:Co:12:CYS:O	2.75	0.40
79:CJ:118:LYS:HB3	79:CJ:119:TYR:H	1.57	0.40
80:CH:45:LEU:HD22	80:CH:57:VAL:CG1	2.37	0.40
80:CH:78:GLN:O	80:CH:82:LYS:HG3	2.21	0.40
81:CE:85:LYS:CB	81:CE:92:VAL:HG12	2.38	0.40
81:CE:207:LYS:O	81:CE:208:ILE:CD1	2.69	0.40
82:CG:121:LYS:C	82:CG:125:LYS:O	2.58	0.40
82:CG:138:ALA:C	82:CG:143:VAL:HG23	2.46	0.40
83:Ct:43:TRP:HB3	83:Ct:47:PHE:HE2	1.85	0.40
84:Cv:7:TYR:CE2	84:Cv:42:VAL:HG21	2.56	0.40
85:A5:973:G:O2'	85:A5:974:C:H5'	2.21	0.40
85:A5:1445:U:H3	85:A5:2099:G:H1	1.69	0.40
85:A5:1446:C:C2'	85:A5:1447:C:H5'	2.47	0.40
85:A5:1964:A:C8	85:A5:1964:A:H5''	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
85:A5:2701:U:H3	85:A5:2715:G:H1	1.68	0.40
85:A5:4293:U:H3	85:A5:4317:A:H61	1.69	0.40
86:A7:16:A:H61	86:A7:62:U:H3	1.70	0.40
1:Az:4:PHE:O	1:Az:46:ILE:HG12	2.18	0.40
1:Az:56:PHE:HZ	1:Az:456:ARG:H	0.85	0.40
1:Az:137:VAL:HG12	1:Az:807:GLN:CD	2.47	0.40
1:Az:160:MET:CG	1:Az:178:PHE:HZ	2.35	0.40
1:Az:261:TRP:CG	1:Az:262:GLY:N	2.89	0.40
1:Az:265:TYR:N	1:Az:265:TYR:HD1	2.17	0.40
1:Az:398:ILE:HG23	1:Az:485:ILE:CD1	2.51	0.40
2:Ag:26:GLN:CB	2:Ag:74:ASP:CA	2.97	0.40
2:Ag:225:LYS:HA	2:Ag:225:LYS:HD2	1.44	0.40
3:AU:30:LYS:O	3:AU:34:LYS:HG2	2.22	0.40
4:AK:16:PHE:CD2	4:AK:79:LEU:CD1	3.05	0.40
5:AO:90:ILE:O	5:AO:124:MET:HE1	2.21	0.40
5:AO:98:ARG:NE	5:AO:134:PRO:HD3	2.37	0.40
5:AO:128:ARG:NE	20:Aa:62:TYR:HE1	2.20	0.40
6:AX:76:LYS:HD3	36:B2:483:C:OP1	2.21	0.40
7:AM:18:LEU:CD2	7:AM:18:LEU:C	2.94	0.40
7:AM:113:ASP:O	7:AM:114:TYR:CD2	2.74	0.40
8:AS:52:LEU:HD12	8:AS:53:THR:CA	2.51	0.40
8:AS:82:TRP:CZ2	36:B2:1567:G:H1'	2.57	0.40
8:AS:93:GLY:HA2	13:AP:18:ARG:HG2	2.04	0.40
8:AS:118:ARG:HH12	13:AP:108:LYS:CE	2.34	0.40
10:AN:19:ARG:NH1	21:Ab:84:HIS:C	2.57	0.40
10:AN:21:SER:C	10:AN:22:VAL:CG1	2.76	0.40
10:AN:38:TYR:CD1	10:AN:78:LYS:HG3	2.56	0.40
10:AN:71:ILE:HD12	36:B2:1018:U:H5''	2.03	0.40
11:AL:56:ILE:HG22	11:AL:57:ASP:N	2.36	0.40
11:AL:93:LEU:HB3	11:AL:102:PHE:HD2	1.87	0.40
11:AL:141:ASN:O	11:AL:143:LEU:CD1	2.70	0.40
13:AP:81:ARG:HB3	36:B2:1621:U:O2	2.21	0.40
14:AT:18:LEU:HD13	14:AT:134:ILE:CD1	2.16	0.40
15:AB:72:ALA:CB	15:AB:79:VAL:O	2.57	0.40
15:AB:229:MET:HG2	15:AB:229:MET:H	1.63	0.40
20:Aa:84:VAL:HB	36:B2:1866:A:C6	2.51	0.40
21:Ab:47:PHE:CD2	21:Ab:49:HIS:O	2.74	0.40
23:AD:58:VAL:CG2	23:AD:59:LEU:N	2.83	0.40
23:AD:151:LYS:NZ	36:B2:1486:A:OP2	2.55	0.40
23:AD:167:TYR:HB3	23:AD:189:MET:SD	2.62	0.40
23:AD:192:TRP:O	23:AD:193:ASP:C	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AJ:37:LEU:HD23	26:AJ:39:ASN:O	2.22	0.40
26:AJ:39:ASN:CG	26:AJ:42:GLU:CD	2.64	0.40
27:AE:122:LYS:HG3	27:AE:164:LEU:CD2	2.50	0.40
27:AE:127:ARG:HH22	36:B2:344:U:C5'	2.34	0.40
29:AG:1:MET:HE2	29:AG:1:MET:HB3	1.86	0.40
29:AG:129:VAL:HG13	29:AG:130:PRO:HD2	2.04	0.40
29:AG:163:ASN:OD1	29:AG:163:ASN:C	2.65	0.40
32:AW:20:ARG:HA	32:AW:20:ARG:HD3	1.38	0.40
33:AI:8:TRP:CD1	33:AI:22:HIS:HE1	2.40	0.40
34:AQ:113:ILE:CG1	34:AQ:120:LEU:HD12	2.51	0.40
36:B2:109:U:O5'	36:B2:109:U:H6	2.03	0.40
36:B2:118:C:C5	36:B2:119:U:C5	3.10	0.40
36:B2:1096:G:H1	36:B2:1136:U:H3	1.69	0.40
38:Cz:23:ARG:HH22	38:Cz:206:ILE:CG2	2.35	0.40
38:Cz:152:LYS:O	38:Cz:153:SER:CB	2.69	0.40
39:Cq:65:ILE:HA	39:Cq:68:HIS:CD2	2.55	0.40
39:Cq:168:GLY:C	39:Cq:171:GLU:CG	2.87	0.40
39:Cq:222:VAL:CG1	84:Cu:4:VAL:HG11	2.37	0.40
39:Cq:241:ILE:HD12	83:Ct:59:LEU:CD1	2.50	0.40
39:Cq:281:VAL:O	39:Cq:281:VAL:CG1	2.68	0.40
40:CK:126:SER:C	40:CK:130:LYS:HG2	2.47	0.40
45:Ca:128:PHE:CE1	70:Ci:8:ALA:CB	3.04	0.40
46:CN:10:LEU:HD13	70:Ci:48:CYS:SG	2.59	0.40
46:CN:47:LYS:O	46:CN:47:LYS:HD3	2.21	0.40
49:CQ:6:ARG:HD2	64:CF:110:GLN:HB2	2.03	0.40
49:CQ:34:PHE:HB3	74:CC:293:LEU:CD2	2.51	0.40
49:CQ:34:PHE:CB	74:CC:293:LEU:HD21	2.49	0.40
50:CR:68:LEU:HA	50:CR:71:ARG:CD	2.41	0.40
50:CR:137:ILE:HG23	50:CR:138:LEU:N	2.35	0.40
50:CR:142:ILE:CA	50:CR:145:LEU:CG	2.92	0.40
51:CA:206:PRO:CD	51:CA:207:VAL:N	2.82	0.40
51:CA:221:LYS:HD2	51:CA:221:LYS:HA	1.67	0.40
53:CT:25:VAL:CG1	53:CT:26:PRO:HD2	2.47	0.40
53:CT:82:GLY:N	62:Cb:16:TRP:CE3	2.86	0.40
53:CT:135:PRO:HG3	64:CF:88:LYS:HE3	2.03	0.40
54:CP:18:ARG:O	54:CP:94:MET:HE2	2.21	0.40
54:CP:106:GLY:C	54:CP:107:LEU:O	2.58	0.40
55:CU:40:GLU:HG2	55:CU:70:ILE:HG21	2.03	0.40
56:CX:36:LYS:HD3	56:CX:36:LYS:HA	1.88	0.40
56:CX:39:LYS:HD2	56:CX:40:ILE:C	2.44	0.40
56:CX:63:LYS:NZ	56:CX:63:LYS:CB	2.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:CX:77:ILE:CD1	56:CX:113:VAL:HG22	2.50	0.40
57:CY:46:SER:O	57:CY:47:MET:SD	2.80	0.40
57:CY:83:GLU:O	57:CY:85:VAL:N	2.49	0.40
57:CY:84:ARG:HG2	57:CY:84:ARG:HH11	1.86	0.40
58:CW:63:GLN:CD	58:CW:67:ILE:CD1	2.93	0.40
58:CW:98:PRO:HB2	58:CW:99:GLU:H	1.65	0.40
59:CZ:17:ARG:C	59:CZ:19:SER:H	2.28	0.40
61:Ch:28:LEU:O	61:Ch:32:ARG:HG3	2.20	0.40
63:CB:240:LEU:HD11	63:CB:252:ALA:HB2	2.02	0.40
63:CB:282:LYS:HB3	63:CB:333:LEU:HG	2.02	0.40
65:Cc:82:GLY:O	65:Cc:86:GLY:N	2.55	0.40
65:Cc:108:MET:HA	65:Cc:109:PRO:HD3	1.72	0.40
66:Cd:23:ARG:CG	66:Cd:88:LEU:HD11	2.52	0.40
66:Cd:86:VAL:HG13	66:Cd:106:VAL:HG13	2.02	0.40
68:Cf:43:LEU:HD22	68:Cf:76:ARG:HA	2.03	0.40
69:Cg:4:ARG:HD2	85:A5:2399:G:H21	1.87	0.40
69:Cg:69:LYS:N	69:Cg:72:LYS:NZ	2.69	0.40
70:Ci:25:ARG:CG	70:Ci:28:ARG:HH12	2.18	0.40
72:Ck:13:LEU:HD23	72:Ck:13:LEU:HA	1.81	0.40
72:Ck:51:GLU:OE1	72:Ck:52:LYS:N	2.54	0.40
74:CC:80:ARG:O	74:CC:80:ARG:CG	2.69	0.40
74:CC:351:VAL:O	74:CC:354:ALA:N	2.54	0.40
75:Cm:99:CYS:HB3	75:Cm:115:CYS:HB3	2.02	0.40
77:Cp:27:LYS:O	77:Cp:31:ILE:HG13	2.21	0.40
79:CJ:20:LEU:HD22	79:CJ:83:LEU:CG	2.52	0.40
81:CE:63:TYR:O	81:CE:66:LYS:HG3	2.21	0.40
81:CE:127:SER:CA	81:CE:129:GLY:N	2.71	0.40
81:CE:240:TYR:O	81:CE:243:THR:HB	2.21	0.40
82:CG:23:GLU:HB3	82:CG:24:ALA:H	1.66	0.40
82:CG:82:GLN:CD	82:CG:233:ILE:CG2	2.94	0.40
82:CG:99:ALA:HB1	82:CG:136:LEU:HD11	2.04	0.40
82:CG:221:ALA:C	82:CG:224:THR:OG1	2.61	0.40
83:Cs:7:LEU:N	84:Cu:12:LEU:CG	2.80	0.40
83:Ct:22:THR:N	83:Ct:27:LYS:HZ3	2.16	0.40
85:A5:246:G:H4'	85:A5:246:G:OP1	2.21	0.40
85:A5:1426:G:H1'	85:A5:1459:A:N6	2.37	0.40
85:A5:3682:A:C8	85:A5:3684:G:C2	3.09	0.40
85:A5:4561:C:H2'	85:A5:4562:C:H6	1.84	0.40
87:A8:102:G:P	87:A8:104:A:O2'	2.80	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Az	854/858 (100%)	766 (90%)	51 (6%)	37 (4%)	2	17
2	Ag	311/317 (98%)	271 (87%)	23 (7%)	17 (6%)	1	14
3	AU	102/119 (86%)	77 (76%)	9 (9%)	16 (16%)	0	3
4	AK	96/165 (58%)	67 (70%)	11 (12%)	18 (19%)	0	2
5	AO	134/151 (89%)	101 (75%)	14 (10%)	19 (14%)	0	3
6	AX	140/143 (98%)	121 (86%)	11 (8%)	8 (6%)	1	13
7	AM	122/132 (92%)	85 (70%)	16 (13%)	21 (17%)	0	2
8	AS	135/152 (89%)	106 (78%)	20 (15%)	9 (7%)	1	11
9	Ad	51/56 (91%)	46 (90%)	3 (6%)	2 (4%)	2	18
10	AN	148/151 (98%)	124 (84%)	18 (12%)	6 (4%)	2	17
11	AL	156/158 (99%)	132 (85%)	10 (6%)	14 (9%)	0	8
12	AR	124/135 (92%)	96 (77%)	13 (10%)	15 (12%)	0	4
13	AP	125/145 (86%)	92 (74%)	16 (13%)	17 (14%)	0	3
14	AT	139/145 (96%)	121 (87%)	8 (6%)	10 (7%)	1	10
15	AB	213/264 (81%)	174 (82%)	24 (11%)	15 (7%)	1	10
16	AA	206/295 (70%)	156 (76%)	23 (11%)	27 (13%)	0	3
17	AV	80/83 (96%)	59 (74%)	10 (12%)	11 (14%)	0	3
18	AY	124/133 (93%)	91 (73%)	15 (12%)	18 (14%)	0	3
19	AZ	73/125 (58%)	52 (71%)	12 (16%)	9 (12%)	0	4
20	Aa	105/115 (91%)	74 (70%)	13 (12%)	18 (17%)	0	2
21	Ab	82/84 (98%)	57 (70%)	14 (17%)	11 (13%)	0	3
22	Ac	62/69 (90%)	44 (71%)	13 (21%)	5 (8%)	1	9
23	AD	225/243 (93%)	180 (80%)	24 (11%)	21 (9%)	0	8
24	Ae	57/59 (97%)	39 (68%)	5 (9%)	13 (23%)	0	1
25	Af	69/80 (86%)	38 (55%)	13 (19%)	18 (26%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	AJ	180/194 (93%)	138 (77%)	18 (10%)	24 (13%)	0	3
27	AE	261/263 (99%)	210 (80%)	29 (11%)	22 (8%)	0	8
28	AC	224/293 (76%)	203 (91%)	10 (4%)	11 (5%)	1	15
29	AG	235/249 (94%)	202 (86%)	18 (8%)	15 (6%)	1	12
30	AF	189/204 (93%)	162 (86%)	15 (8%)	12 (6%)	1	12
31	AH	188/194 (97%)	146 (78%)	11 (6%)	31 (16%)	0	3
32	AW	127/130 (98%)	111 (87%)	14 (11%)	2 (2%)	7	36
33	AI	204/208 (98%)	169 (83%)	13 (6%)	22 (11%)	0	6
34	AQ	139/146 (95%)	110 (79%)	19 (14%)	10 (7%)	1	10
35	Ah	69/408 (17%)	31 (45%)	15 (22%)	23 (33%)	0	0
38	Cz	213/217 (98%)	189 (89%)	16 (8%)	8 (4%)	2	18
39	Cq	278/317 (88%)	197 (71%)	31 (11%)	50 (18%)	0	2
40	CK	161/165 (98%)	77 (48%)	35 (22%)	49 (30%)	0	0
41	CO	200/203 (98%)	183 (92%)	12 (6%)	5 (2%)	4	25
42	CL	208/211 (99%)	165 (79%)	18 (9%)	25 (12%)	0	4
43	CV	131/140 (94%)	116 (88%)	11 (8%)	4 (3%)	3	21
44	CM	137/215 (64%)	112 (82%)	16 (12%)	9 (7%)	1	11
45	Ca	145/148 (98%)	120 (83%)	14 (10%)	11 (8%)	1	9
46	CN	201/204 (98%)	179 (89%)	9 (4%)	13 (6%)	1	12
47	CI	211/214 (99%)	165 (78%)	27 (13%)	19 (9%)	0	8
48	CD	287/297 (97%)	237 (83%)	24 (8%)	26 (9%)	0	8
49	CQ	186/188 (99%)	152 (82%)	18 (10%)	16 (9%)	0	8
50	CR	187/196 (95%)	165 (88%)	15 (8%)	7 (4%)	2	19
51	CA	253/257 (98%)	210 (83%)	23 (9%)	20 (8%)	1	9
52	CS	173/176 (98%)	137 (79%)	15 (9%)	21 (12%)	0	4
53	CT	157/160 (98%)	131 (83%)	11 (7%)	15 (10%)	0	7
54	CP	150/184 (82%)	134 (89%)	9 (6%)	7 (5%)	2	16
55	CU	110/128 (86%)	90 (82%)	13 (12%)	7 (6%)	1	12
56	CX	119/156 (76%)	98 (82%)	14 (12%)	7 (6%)	1	13
57	CY	131/145 (90%)	116 (88%)	11 (8%)	4 (3%)	3	21
58	CW	122/157 (78%)	94 (77%)	13 (11%)	15 (12%)	0	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
59	CZ	133/136 (98%)	109 (82%)	14 (10%)	10 (8%)	1	9
60	Cr	135/137 (98%)	86 (64%)	22 (16%)	27 (20%)	0	1
61	Ch	121/123 (98%)	93 (77%)	14 (12%)	14 (12%)	0	5
62	Cb	76/159 (48%)	58 (76%)	9 (12%)	9 (12%)	0	5
63	CB	395/403 (98%)	322 (82%)	34 (9%)	39 (10%)	0	7
64	CF	227/248 (92%)	209 (92%)	6 (3%)	12 (5%)	1	14
65	Cc	98/115 (85%)	90 (92%)	5 (5%)	3 (3%)	3	21
66	Cd	111/125 (89%)	75 (68%)	20 (18%)	16 (14%)	0	3
67	Ce	131/135 (97%)	102 (78%)	14 (11%)	15 (12%)	0	5
68	Cf	107/110 (97%)	82 (77%)	12 (11%)	13 (12%)	0	4
69	Cg	112/117 (96%)	91 (81%)	7 (6%)	14 (12%)	0	4
70	Ci	101/105 (96%)	78 (77%)	7 (7%)	16 (16%)	0	3
71	Cj	88/97 (91%)	74 (84%)	7 (8%)	7 (8%)	1	9
72	Ck	67/70 (96%)	59 (88%)	5 (8%)	3 (4%)	2	16
73	Cl	48/51 (94%)	37 (77%)	8 (17%)	3 (6%)	1	12
74	CC	366/427 (86%)	259 (71%)	41 (11%)	66 (18%)	0	2
75	Cm	50/52 (96%)	44 (88%)	3 (6%)	3 (6%)	1	12
76	Cn	23/25 (92%)	21 (91%)	2 (9%)	0	100	100
77	Cp	88/92 (96%)	75 (85%)	9 (10%)	4 (4%)	2	16
78	Co	103/106 (97%)	74 (72%)	14 (14%)	15 (15%)	0	3
79	CJ	166/178 (93%)	132 (80%)	20 (12%)	14 (8%)	0	8
80	CH	189/192 (98%)	163 (86%)	18 (10%)	8 (4%)	2	17
81	CE	260/288 (90%)	164 (63%)	39 (15%)	57 (22%)	0	1
82	CG	244/266 (92%)	165 (68%)	31 (13%)	48 (20%)	0	2
83	Cs	55/114 (48%)	53 (96%)	2 (4%)	0	100	100
83	Ct	55/114 (48%)	55 (100%)	0	0	100	100
84	Cu	54/115 (47%)	49 (91%)	1 (2%)	4 (7%)	1	10
84	Cv	54/115 (47%)	51 (94%)	0	3 (6%)	1	14
All	All	13166/14959 (88%)	10588 (80%)	1270 (10%)	1308 (10%)	1	7

All (1308) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	Az	4	PHE
1	Az	43	ALA
1	Az	44	GLY
1	Az	45	ILE
1	Az	47	ALA
1	Az	61	LYS
1	Az	71	LYS
1	Az	206	ASP
1	Az	207	PRO
1	Az	240	GLY
1	Az	241	GLU
1	Az	481	LYS
1	Az	498	LYS
1	Az	499	PHE
1	Az	500	SER
1	Az	504	VAL
1	Az	577	VAL
1	Az	716	ARG
1	Az	753	GLU
1	Az	776	VAL
1	Az	778	GLY
1	Az	808	ALA
1	Az	849	PRO
2	Ag	3	GLU
2	Ag	48	ASP
2	Ag	52	TYR
2	Ag	96	THR
2	Ag	282	GLU
2	Ag	283	PRO
3	AU	51	LYS
3	AU	94	PRO
3	AU	95	SER
3	AU	107	GLU
3	AU	118	ASP
4	AK	2	LEU
4	AK	3	MET
4	AK	30	PRO
4	AK	35	LEU
4	AK	39	ASN
4	AK	40	VAL
4	AK	41	PRO
4	AK	44	HIS
4	AK	63	ALA

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Mol	Chain	Res	Type
4	AK	88	GLU
4	AK	89	ILE
5	AO	23	GLU
5	AO	52	THR
5	AO	53	ILE
5	AO	64	ALA
5	AO	104	ARG
5	AO	137	SER
5	AO	138	ASP
5	AO	139	SER
5	AO	140	THR
6	AX	3	LYS
6	AX	4	CYS
7	AM	12	MET
7	AM	15	ASN
7	AM	44	LYS
7	AM	72	HIS
7	AM	77	ILE
7	AM	78	LYS
7	AM	79	VAL
7	AM	81	ASP
7	AM	89	VAL
7	AM	96	ARG
7	AM	100	PRO
7	AM	116	LYS
7	AM	117	GLU
8	AS	11	HIS
8	AS	53	THR
8	AS	59	LEU
8	AS	90	VAL
9	Ad	8	TRP
10	AN	22	VAL
11	AL	5	GLN
11	AL	6	THR
11	AL	7	GLU
11	AL	20	LYS
11	AL	23	VAL
11	AL	147	LYS
11	AL	152	LYS
11	AL	153	LYS
12	AR	88	VAL
12	AR	89	SER

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Mol	Chain	Res	Type
12	AR	100	PRO
12	AR	101	ASP
12	AR	121	GLN
12	AR	123	THR
13	AP	6	GLN
13	AP	11	THR
13	AP	12	PHE
13	AP	37	TYR
13	AP	38	SER
13	AP	68	PRO
13	AP	69	PRO
13	AP	71	GLU
13	AP	73	PRO
13	AP	75	VAL
13	AP	125	PRO
13	AP	126	VAL
13	AP	127	LYS
14	AT	5	THR
14	AT	31	PRO
14	AT	32	GLU
14	AT	33	TRP
14	AT	34	VAL
14	AT	96	SER
14	AT	143	LYS
15	AB	27	LYS
15	AB	77	ASP
15	AB	78	GLU
15	AB	106	THR
15	AB	154	SER
15	AB	179	ASN
15	AB	206	PRO
15	AB	210	VAL
16	AA	9	GLN
16	AA	31	ASP
16	AA	45	GLY
16	AA	103	PHE
16	AA	164	ASN
16	AA	165	ASN
16	AA	188	THR
16	AA	192	GLU
16	AA	203	PHE
16	AA	207	PRO

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Mol	Chain	Res	Type
17	AV	4	ASP
17	AV	10	ASP
17	AV	42	VAL
17	AV	43	THR
17	AV	44	GLY
17	AV	50	PHE
17	AV	65	SER
18	AY	6	THR
18	AY	30	PRO
18	AY	34	THR
18	AY	86	GLU
18	AY	87	PRO
18	AY	100	LYS
18	AY	104	ARG
18	AY	120	THR
19	AZ	93	SER
19	AZ	104	ARG
19	AZ	108	ILE
19	AZ	113	THR
20	Aa	28	ARG
20	Aa	46	GLU
20	Aa	47	ALA
20	Aa	58	VAL
20	Aa	59	PHE
20	Aa	61	ALA
20	Aa	63	VAL
20	Aa	64	LEU
20	Aa	98	PRO
20	Aa	99	PRO
20	Aa	107	ALA
21	Ab	62	VAL
21	Ab	63	LEU
21	Ab	64	CYS
22	Ac	8	PRO
22	Ac	67	ARG
23	AD	2	ALA
23	AD	4	GLN
23	AD	93	THR
23	AD	98	ALA
23	AD	202	LYS
23	AD	205	PRO
23	AD	213	PRO

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Mol	Chain	Res	Type
23	AD	214	LYS
23	AD	216	GLU
23	AD	220	THR
23	AD	221	THR
23	AD	222	PRO
23	AD	223	ILE
23	AD	226	GLN
24	Ae	2	VAL
24	Ae	4	GLY
24	Ae	7	ALA
24	Ae	24	LYS
24	Ae	45	VAL
24	Ae	47	PRO
24	Ae	52	LYS
25	Af	84	SER
25	Af	85	TYR
25	Af	86	THR
25	Af	91	ASN
25	Af	102	VAL
25	Af	106	TYR
25	Af	110	GLU
25	Af	128	ALA
26	AJ	19	PRO
26	AJ	22	LYS
26	AJ	36	GLY
26	AJ	110	LEU
26	AJ	111	GLN
26	AJ	118	GLY
26	AJ	119	LEU
26	AJ	122	SER
26	AJ	138	ARG
26	AJ	161	LEU
26	AJ	163	SER
26	AJ	169	ARG
26	AJ	170	PRO
26	AJ	172	ARG
27	AE	12	VAL
27	AE	24	THR
27	AE	76	VAL
27	AE	95	THR
27	AE	163	ASP
27	AE	196	THR

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Mol	Chain	Res	Type
27	AE	260	GLN
27	AE	261	SER
28	AC	117	ARG
28	AC	119	GLY
28	AC	132	ASP
28	AC	233	LEU
28	AC	275	LYS
29	AG	20	ASP
29	AG	154	ARG
29	AG	164	LYS
29	AG	174	PRO
29	AG	175	LYS
29	AG	180	VAL
29	AG	181	THR
30	AF	43	GLU
30	AF	44	LYS
30	AF	202	SER
30	AF	203	ASN
31	AH	15	LYS
31	AH	16	PRO
31	AH	33	ASN
31	AH	35	ASP
31	AH	66	VAL
31	AH	88	SER
31	AH	108	SER
31	AH	109	ARG
31	AH	110	THR
31	AH	116	ARG
31	AH	135	PHE
31	AH	137	SER
31	AH	138	GLU
31	AH	160	LYS
31	AH	190	PRO
33	AI	8	TRP
33	AI	120	PRO
33	AI	124	LYS
33	AI	131	PRO
33	AI	133	GLU
33	AI	139	LYS
33	AI	140	LYS
33	AI	142	SER
33	AI	143	LYS

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Mol	Chain	Res	Type
33	AI	145	ILE
33	AI	153	LYS
33	AI	154	LYS
33	AI	158	ILE
33	AI	206	LYS
34	AQ	19	ALA
34	AQ	61	GLU
34	AQ	62	ARG
34	AQ	117	ARG
34	AQ	119	LEU
34	AQ	141	TYR
35	Ah	143	GLU
35	Ah	149	GLY
35	Ah	150	GLU
35	Ah	151	PHE
35	Ah	154	ASP
35	Ah	155	ARG
35	Ah	176	GLY
35	Ah	178	GLY
35	Ah	299	LYS
35	Ah	300	ASP
38	Cz	60	ARG
38	Cz	81	ASP
38	Cz	84	HIS
38	Cz	209	THR
38	Cz	210	MET
39	Cq	25	PRO
39	Cq	27	CYS
39	Cq	37	SER
39	Cq	69	LEU
39	Cq	70	GLU
39	Cq	73	PRO
39	Cq	74	ALA
39	Cq	108	PRO
39	Cq	109	ALA
39	Cq	126	GLN
39	Cq	135	THR
39	Cq	140	ALA
39	Cq	149	ARG
39	Cq	150	GLY
39	Cq	182	PRO
39	Cq	183	PHE

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Mol	Chain	Res	Type
39	Cq	184	SER
39	Cq	185	PHE
39	Cq	201	PRO
39	Cq	232	PRO
39	Cq	237	VAL
39	Cq	257	TYR
39	Cq	260	PRO
39	Cq	261	LEU
39	Cq	263	GLU
40	CK	2	PRO
40	CK	5	PHE
40	CK	7	PRO
40	CK	8	ASN
40	CK	9	GLU
40	CK	28	LEU
40	CK	30	PRO
40	CK	38	SER
40	CK	39	PRO
40	CK	54	LYS
40	CK	58	ILE
40	CK	86	LYS
40	CK	89	PRO
40	CK	92	ARG
40	CK	98	ILE
40	CK	105	THR
40	CK	117	ARG
40	CK	118	HIS
40	CK	119	ARG
40	CK	121	LEU
40	CK	126	SER
40	CK	135	THR
40	CK	141	CYS
40	CK	142	ASN
40	CK	144	ASP
40	CK	147	HIS
40	CK	148	PRO
40	CK	149	HIS
40	CK	159	ALA
41	CO	110	PRO
41	CO	111	PRO
41	CO	182	GLU
42	CL	3	PRO

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Mol	Chain	Res	Type
42	CL	14	PHE
42	CL	47	ALA
42	CL	49	ARG
42	CL	50	PRO
42	CL	51	ALA
42	CL	52	SER
42	CL	54	PRO
42	CL	129	ARG
42	CL	130	LYS
42	CL	131	PRO
42	CL	134	PRO
42	CL	143	GLU
42	CL	151	THR
42	CL	153	PRO
42	CL	155	MET
42	CL	160	VAL
42	CL	165	LYS
42	CL	166	ALA
44	CM	3	PHE
44	CM	4	ARG
44	CM	35	ARG
44	CM	43	THR
44	CM	65	PRO
44	CM	71	LYS
45	Ca	48	TYR
45	Ca	76	ASP
45	Ca	94	LYS
45	Ca	97	ALA
45	Ca	98	ALA
45	Ca	118	PRO
45	Ca	119	LYS
46	CN	79	ALA
46	CN	80	THR
46	CN	81	TYR
46	CN	125	SER
46	CN	146	PRO
46	CN	147	ASP
46	CN	184	ILE
47	CI	3	ARG
47	CI	6	ALA
47	CI	104	SER
47	CI	106	ALA

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Mol	Chain	Res	Type
47	CI	110	ARG
47	CI	112	GLN
47	CI	113	THR
47	CI	200	VAL
47	CI	201	PRO
47	CI	205	PRO
47	CI	206	LEU
47	CI	207	ASP
48	CD	20	PHE
48	CD	44	TYR
48	CD	58	ARG
48	CD	187	SER
48	CD	189	GLU
48	CD	219	TYR
48	CD	220	LYS
48	CD	233	PRO
48	CD	234	ASP
48	CD	253	TYR
48	CD	259	LYS
48	CD	261	VAL
48	CD	271	MET
48	CD	272	SER
48	CD	285	ALA
49	CQ	11	ARG
49	CQ	98	LEU
49	CQ	147	GLU
49	CQ	153	GLY
49	CQ	160	HIS
50	CR	16	ARG
51	CA	115	CYS
51	CA	142	GLU
51	CA	219	ILE
51	CA	221	LYS
51	CA	222	PRO
51	CA	230	PRO
51	CA	231	ALA
51	CA	233	ARG
51	CA	234	LYS
51	CA	249	THR
51	CA	251	THR
51	CA	255	LYS
52	CS	16	CYS

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Mol	Chain	Res	Type
52	CS	20	PRO
52	CS	24	THR
52	CS	76	LYS
52	CS	149	LYS
52	CS	152	PHE
52	CS	153	PRO
52	CS	155	PRO
52	CS	171	ARG
52	CS	174	THR
53	CT	5	LYS
53	CT	81	LYS
53	CT	127	GLN
53	CT	134	PRO
53	CT	135	PRO
53	CT	138	ALA
53	CT	158	PHE
54	CP	6	LEU
54	CP	7	ASP
54	CP	8	PRO
54	CP	11	PRO
54	CP	66	GLY
55	CU	17	GLN
56	CX	40	ILE
56	CX	54	LEU
56	CX	58	PRO
56	CX	61	PRO
57	CY	92	GLY
58	CW	73	ARG
58	CW	74	ARG
58	CW	75	ALA
58	CW	77	LYS
58	CW	89	ASP
58	CW	95	ASN
58	CW	98	PRO
58	CW	99	GLU
59	CZ	36	ARG
59	CZ	56	ALA
59	CZ	125	GLY
60	Cr	2	SER
60	Cr	3	ALA
60	Cr	22	LYS
60	Cr	28	GLU

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Mol	Chain	Res	Type
60	Cr	29	PRO
60	Cr	30	ASN
60	Cr	32	LEU
60	Cr	41	ASN
60	Cr	42	GLY
60	Cr	43	LEU
60	Cr	66	ARG
60	Cr	67	ARG
60	Cr	83	ASN
60	Cr	90	LEU
60	Cr	107	ARG
60	Cr	126	VAL
60	Cr	127	LYS
61	Ch	2	ALA
61	Ch	4	ILE
61	Ch	37	THR
61	Ch	77	LYS
61	Ch	78	TYR
61	Ch	85	PRO
61	Ch	86	LYS
61	Ch	115	PRO
61	Ch	120	ALA
61	Ch	122	LYS
62	Cb	25	ARG
62	Cb	37	PRO
62	Cb	38	LYS
63	CB	3	HIS
63	CB	5	LYS
63	CB	19	ARG
63	CB	25	HIS
63	CB	34	LYS
63	CB	40	PRO
63	CB	41	VAL
63	CB	112	ASP
63	CB	113	GLU
63	CB	139	ASP
63	CB	140	GLU
63	CB	144	LYS
63	CB	189	THR
63	CB	293	ILE
63	CB	312	LYS
63	CB	357	ARG

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Mol	Chain	Res	Type
63	CB	393	LYS
64	CF	22	ARG
64	CF	23	ARG
64	CF	25	PHE
64	CF	218	GLY
64	CF	220	MET
64	CF	225	THR
66	Cd	16	ALA
66	Cd	17	ILE
66	Cd	20	VAL
66	Cd	58	GLY
66	Cd	59	THR
66	Cd	60	PRO
66	Cd	96	GLU
66	Cd	97	ASP
66	Cd	113	THR
67	Ce	2	ALA
67	Ce	5	ARG
67	Ce	6	PRO
67	Ce	7	LEU
67	Ce	12	ILE
67	Ce	92	ASN
67	Ce	127	ALA
67	Ce	130	ARG
67	Ce	131	SER
68	Cf	7	SER
68	Cf	31	GLU
68	Cf	34	TYR
68	Cf	57	THR
68	Cf	58	VAL
68	Cf	64	PRO
68	Cf	65	ASN
69	Cg	48	VAL
69	Cg	50	PRO
69	Cg	58	ALA
69	Cg	75	SER
69	Cg	76	ARG
69	Cg	81	SER
70	Ci	2	ALA
70	Ci	4	ARG
70	Ci	5	TYR
70	Ci	6	PRO

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Mol	Chain	Res	Type
70	Ci	9	VAL
70	Ci	12	ASN
70	Ci	20	ASN
70	Ci	23	LYS
70	Ci	24	PRO
70	Ci	34	THR
70	Ci	63	VAL
70	Ci	64	SER
71	Cj	83	THR
71	Cj	86	PRO
71	Cj	87	LYS
71	Cj	90	ALA
73	Cl	37	TYR
74	CC	8	ILE
74	CC	17	SER
74	CC	18	SER
74	CC	23	THR
74	CC	24	LEU
74	CC	25	PRO
74	CC	45	ARG
74	CC	60	HIS
74	CC	61	GLN
74	CC	92	PHE
74	CC	156	ASP
74	CC	175	LYS
74	CC	213	GLU
74	CC	263	LEU
74	CC	267	TRP
74	CC	268	ARG
74	CC	273	LEU
74	CC	274	LYS
74	CC	275	SER
74	CC	276	ASN
74	CC	286	ASN
74	CC	287	THR
74	CC	288	ASP
74	CC	289	LEU
74	CC	295	SER
74	CC	296	PRO
74	CC	304	ALA
74	CC	307	LYS
74	CC	310	HIS

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Mol	Chain	Res	Type
74	CC	311	ARG
74	CC	312	ARG
74	CC	313	VAL
74	CC	318	PRO
74	CC	319	LEU
74	CC	342	ARG
75	Cm	104	HIS
77	Cp	4	ARG
78	Co	14	LYS
78	Co	31	ASP
78	Co	32	SER
78	Co	63	THR
78	Co	65	LYS
78	Co	66	ILE
78	Co	73	VAL
78	Co	74	GLU
78	Co	77	CYS
78	Co	100	LYS
79	CJ	10	ASN
79	CJ	11	PRO
79	CJ	13	ARG
79	CJ	15	LEU
79	CJ	97	ASN
79	CJ	98	ASN
79	CJ	111	GLU
79	CJ	118	LYS
79	CJ	170	TYR
80	CH	42	ASN
80	CH	53	LYS
80	CH	107	GLU
80	CH	110	SER
81	CE	37	PRO
81	CE	41	LYS
81	CE	42	PRO
81	CE	44	CYS
81	CE	45	SER
81	CE	47	ASN
81	CE	51	VAL
81	CE	58	SER
81	CE	60	SER
81	CE	75	ALA
81	CE	76	ALA

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Mol	Chain	Res	Type
81	CE	86	GLU
81	CE	94	LYS
81	CE	96	VAL
81	CE	101	ASN
81	CE	106	VAL
81	CE	115	TYR
81	CE	116	TYR
81	CE	118	THR
81	CE	119	GLU
81	CE	121	VAL
81	CE	128	HIS
81	CE	130	LYS
81	CE	131	LYS
81	CE	138	ARG
81	CE	187	ARG
81	CE	208	ILE
81	CE	214	ASP
81	CE	224	LYS
81	CE	227	HIS
81	CE	230	GLY
81	CE	234	ASP
81	CE	267	LEU
81	CE	278	THR
81	CE	283	PRO
81	CE	284	HIS
82	CG	22	GLN
82	CG	23	GLU
82	CG	24	ALA
82	CG	25	LYS
82	CG	32	PHE
82	CG	36	PRO
82	CG	37	LYS
82	CG	41	ILE
82	CG	44	ASP
82	CG	45	ILE
82	CG	52	THR
82	CG	71	TYR
82	CG	83	PHE
82	CG	86	ALA
82	CG	88	ASP
82	CG	107	LYS
82	CG	120	LYS

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Mol	Chain	Res	Type
82	CG	125	LYS
82	CG	133	PRO
82	CG	161	VAL
82	CG	163	PRO
82	CG	185	LYS
82	CG	212	LYS
82	CG	240	ASN
82	CG	241	VAL
82	CG	242	LEU
82	CG	244	PRO
84	Cu	16	SER
84	Cu	17	SER
84	Cu	18	PRO
84	Cv	18	PRO
1	Az	48	SER
1	Az	53	GLU
1	Az	54	THR
1	Az	62	ASP
2	Ag	49	GLU
2	Ag	60	ARG
2	Ag	144	ASP
2	Ag	159	ASN
2	Ag	171	ASP
2	Ag	281	ALA
2	Ag	295	GLY
3	AU	74	SER
3	AU	98	VAL
4	AK	34	GLU
4	AK	91	PRO
5	AO	54	CYS
5	AO	56	VAL
6	AX	59	ALA
7	AM	45	ARG
8	AS	17	ASN
8	AS	31	THR
8	AS	140	GLY
10	AN	68	GLY
11	AL	4	ILE
11	AL	21	LYS
11	AL	22	ARG
11	AL	57	ASP
12	AR	93	GLN

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Mol	Chain	Res	Type
12	AR	112	GLY
12	AR	125	GLY
13	AP	54	HIS
14	AT	142	ASN
15	AB	93	GLY
15	AB	209	ASP
16	AA	7	VAL
16	AA	96	ALA
16	AA	112	ILE
16	AA	140	VAL
16	AA	159	ILE
16	AA	186	ARG
16	AA	190	SER
16	AA	191	ARG
17	AV	6	GLY
17	AV	48	GLY
17	AV	77	GLY
18	AY	95	GLY
18	AY	99	LYS
18	AY	119	GLY
19	AZ	53	ALA
20	Aa	35	ALA
21	Ab	2	PRO
21	Ab	38	PRO
21	Ab	81	ARG
23	AD	78	GLY
23	AD	194	PRO
23	AD	201	LYS
23	AD	208	VAL
24	Ae	3	HIS
24	Ae	30	GLY
24	Ae	50	GLY
25	Af	98	VAL
25	Af	127	GLY
25	Af	148	TYR
26	AJ	106	LEU
26	AJ	120	ALA
26	AJ	124	HIS
26	AJ	135	ILE
26	AJ	148	ILE
27	AE	104	ASP
27	AE	164	LEU

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Mol	Chain	Res	Type
28	AC	261	PHE
29	AG	26	THR
29	AG	146	ASN
29	AG	153	VAL
30	AF	21	GLY
30	AF	32	ASP
30	AF	41	VAL
30	AF	54	GLY
30	AF	79	HIS
31	AH	11	PRO
31	AH	17	ASP
31	AH	38	ALA
31	AH	41	ARG
31	AH	76	GLN
31	AH	100	ILE
31	AH	112	ASN
31	AH	120	ARG
31	AH	159	ASP
31	AH	193	GLN
32	AW	66	THR
33	AI	22	HIS
33	AI	192	GLY
34	AQ	32	ILE
34	AQ	100	VAL
35	Ah	146	GLY
35	Ah	147	GLU
35	Ah	156	PRO
35	Ah	168	LEU
35	Ah	174	GLY
35	Ah	283	GLU
35	Ah	285	PRO
35	Ah	296	ILE
39	Cq	33	ASP
39	Cq	46	SER
39	Cq	49	GLY
39	Cq	58	ASN
39	Cq	94	ASP
39	Cq	105	ASN
39	Cq	106	LYS
39	Cq	142	GLY
39	Cq	156	SER
39	Cq	179	ASN

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Mol	Chain	Res	Type
39	Cq	180	ILE
39	Cq	259	PHE
40	CK	10	ILE
40	CK	24	ALA
40	CK	34	PRO
40	CK	40	LYS
40	CK	53	TRP
40	CK	60	VAL
40	CK	94	LYS
40	CK	99	LYS
40	CK	120	SER
40	CK	140	GLY
41	CO	132	THR
42	CL	157	VAL
43	CV	44	GLY
43	CV	45	ILE
44	CM	5	ARG
45	Ca	47	LYS
45	Ca	66	ASN
46	CN	188	ARG
47	CI	4	ARG
47	CI	109	ASP
47	CI	175	LYS
47	CI	202	SER
48	CD	59	ASP
48	CD	137	GLY
48	CD	171	LEU
48	CD	215	ASP
49	CQ	20	SER
49	CQ	169	SER
50	CR	47	ASP
50	CR	113	LYS
50	CR	131	VAL
50	CR	133	LYS
51	CA	13	GLY
51	CA	31	ALA
51	CA	143	THR
52	CS	27	LEU
52	CS	134	ALA
53	CT	3	ASN
53	CT	136	ARG
53	CT	143	THR

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Mol	Chain	Res	Type
53	CT	146	LYS
54	CP	3	ARG
55	CU	55	ASN
55	CU	60	VAL
57	CY	43	ASN
57	CY	53	ASP
58	CW	18	GLY
58	CW	26	GLY
58	CW	71	ARG
59	CZ	5	MET
59	CZ	32	GLY
59	CZ	102	ARG
60	Cr	44	ILE
60	Cr	47	LYS
60	Cr	53	PRO
60	Cr	55	ALA
60	Cr	56	ASP
60	Cr	104	PRO
61	Ch	39	GLY
61	Ch	40	ALA
62	Cb	23	LYS
62	Cb	54	LEU
63	CB	38	SER
63	CB	138	GLN
63	CB	141	ASP
63	CB	145	GLN
63	CB	151	SER
63	CB	292	LEU
63	CB	294	LYS
63	CB	361	GLU
63	CB	397	ILE
64	CF	24	ASN
64	CF	237	GLU
65	Cc	11	LEU
65	Cc	12	GLU
65	Cc	92	CYS
66	Cd	13	GLY
66	Cd	98	SER
66	Cd	116	ASN
67	Ce	4	LEU
67	Ce	30	LYS
67	Ce	48	ARG

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Mol	Chain	Res	Type
68	Cf	55	ASN
68	Cf	66	LYS
68	Cf	81	SER
69	Cg	49	CYS
69	Cg	78	TYR
69	Cg	79	GLY
69	Cg	80	GLY
70	Ci	13	LYS
71	Cj	88	ARG
72	Ck	66	VAL
73	Cl	50	GLY
74	CC	7	LEU
74	CC	15	GLY
74	CC	35	ASP
74	CC	59	GLY
74	CC	108	TRP
74	CC	116	ASN
74	CC	157	LYS
74	CC	214	ASP
74	CC	272	SER
74	CC	305	PRO
74	CC	306	ARG
74	CC	309	ILE
74	CC	321	ASN
74	CC	339	THR
74	CC	341	LEU
78	Co	34	TYR
80	CH	4	ILE
81	CE	29	LYS
81	CE	61	ALA
81	CE	73	TYR
81	CE	87	LYS
81	CE	90	ALA
81	CE	139	LYS
81	CE	229	GLU
81	CE	286	LEU
82	CG	46	GLN
82	CG	58	PRO
82	CG	59	ARG
82	CG	72	LYS
82	CG	140	VAL
82	CG	160	ASP

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Mol	Chain	Res	Type
82	CG	167	VAL
82	CG	184	ILE
82	CG	200	THR
82	CG	207	VAL
84	Cv	16	SER
1	Az	269	ALA
1	Az	434	TYR
2	Ag	84	ASP
2	Ag	255	SER
2	Ag	285	GLN
3	AU	70	CYS
3	AU	93	SER
3	AU	110	VAL
4	AK	28	HIS
4	AK	87	PRO
5	AO	32	HIS
6	AX	92	ASN
7	AM	91	LEU
10	AN	28	LEU
12	AR	86	PRO
12	AR	122	PRO
13	AP	17	TYR
13	AP	39	ALA
14	AT	29	LYS
15	AB	56	LYS
15	AB	82	ARG
16	AA	11	LYS
16	AA	30	LEU
16	AA	194	PRO
16	AA	205	ARG
18	AY	53	ASP
18	AY	60	PHE
18	AY	63	HIS
20	Aa	13	LYS
20	Aa	97	PRO
20	Aa	102	ARG
20	Aa	103	PRO
21	Ab	7	LEU
22	Ac	65	ALA
23	AD	218	LEU
24	Ae	53	LYS
24	Ae	55	PRO

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Mol	Chain	Res	Type
25	Af	137	ASP
25	Af	138	ARG
26	AJ	91	LYS
27	AE	168	LYS
27	AE	194	VAL
27	AE	205	PHE
29	AG	69	THR
31	AH	18	GLU
31	AH	117	PRO
31	AH	150	GLY
33	AI	105	ASP
33	AI	106	SER
33	AI	144	LYS
35	Ah	161	PRO
38	Cz	105	LYS
39	Cq	137	PHE
39	Cq	256	ASP
39	Cq	262	ALA
40	CK	3	PRO
40	CK	56	LEU
40	CK	67	ARG
40	CK	90	ARG
40	CK	125	LEU
40	CK	139	VAL
42	CL	62	PRO
42	CL	149	GLN
44	CM	6	PHE
44	CM	67	SER
46	CN	50	ARG
47	CI	5	PRO
48	CD	112	ARG
48	CD	138	GLN
48	CD	251	PRO
48	CD	257	PRO
49	CQ	159	PRO
49	CQ	186	TYR
52	CS	162	GLN
53	CT	4	THR
53	CT	98	HIS
54	CP	40	HIS
55	CU	52	LYS
55	CU	122	GLU

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Mol	Chain	Res	Type
56	CX	69	ASN
60	Cr	34	ALA
62	Cb	29	TYR
63	CB	4	ARG
63	CB	261	ARG
63	CB	326	VAL
63	CB	396	ARG
64	CF	184	ILE
64	CF	197	VAL
66	Cd	101	LYS
67	Ce	94	SER
70	Ci	65	LYS
71	Cj	84	PRO
72	Ck	18	LYS
74	CC	13	GLU
74	CC	86	ARG
74	CC	183	VAL
74	CC	184	TYR
74	CC	249	PHE
74	CC	255	SER
75	Cm	105	PRO
77	Cp	18	TYR
78	Co	15	CYS
78	Co	61	LYS
78	Co	96	ASP
81	CE	30	GLY
81	CE	39	LYS
81	CE	85	LYS
82	CG	33	GLU
82	CG	84	THR
82	CG	134	PRO
82	CG	139	GLY
1	Az	502	SER
2	Ag	37	ASP
3	AU	50	VAL
4	AK	67	PHE
4	AK	95	ARG
5	AO	17	LEU
5	AO	83	GLN
6	AX	9	THR
6	AX	129	SER
7	AM	29	ASP

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Mol	Chain	Res	Type
7	AM	113	ASP
8	AS	12	ILE
11	AL	119	ASP
12	AR	95	ILE
13	AP	50	ARG
14	AT	46	ALA
15	AB	224	GLU
16	AA	104	THR
18	AY	5	VAL
18	AY	102	THR
19	AZ	111	ARG
19	AZ	114	LYS
20	Aa	62	TYR
21	Ab	10	PRO
21	Ab	24	LEU
22	Ac	63	ARG
25	Af	145	CYS
26	AJ	151	LEU
26	AJ	162	ARG
27	AE	30	ARG
27	AE	119	ALA
27	AE	189	LEU
28	AC	259	THR
28	AC	264	SER
29	AG	33	ALA
29	AG	122	PRO
30	AF	37	ASP
35	Ah	153	VAL
35	Ah	167	GLY
38	Cz	197	ASN
39	Cq	24	TYR
39	Cq	61	MET
39	Cq	191	GLN
39	Cq	199	TYR
41	CO	181	ALA
42	CL	161	TYR
46	CN	68	ARG
46	CN	77	LYS
46	CN	183	THR
47	CI	213	HIS
48	CD	21	ARG
48	CD	260	GLU

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Mol	Chain	Res	Type
50	CR	53	LYS
51	CA	138	SER
51	CA	220	GLY
52	CS	26	PRO
52	CS	75	VAL
52	CS	146	HIS
52	CS	150	ILE
52	CS	172	PRO
55	CU	56	LEU
56	CX	43	SER
56	CX	57	GLN
58	CW	78	PHE
58	CW	83	THR
59	CZ	129	TRP
60	Cr	82	ILE
62	Cb	32	LEU
63	CB	78	ILE
63	CB	309	LEU
63	CB	311	ASP
63	CB	342	LYS
63	CB	360	LEU
66	Cd	112	THR
68	Cf	63	LYS
69	Cg	47	GLY
70	Ci	27	SER
70	Ci	67	LYS
74	CC	148	PRO
74	CC	177	TRP
74	CC	262	GLU
79	CJ	58	ARG
79	CJ	114	ASP
79	CJ	175	LEU
81	CE	83	LYS
81	CE	134	SER
81	CE	282	TYR
82	CG	162	ASP
82	CG	166	LEU
84	Cv	17	SER
1	Az	246	PRO
1	Az	574	ASP
3	AU	26	SER
3	AU	116	ILE

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Mol	Chain	Res	Type
3	AU	117	ALA
4	AK	38	LYS
5	AO	22	ALA
5	AO	38	ASN
6	AX	99	GLU
7	AM	59	PRO
7	AM	94	ILE
7	AM	95	ASP
8	AS	7	GLU
10	AN	3	ARG
10	AN	138	ASN
11	AL	2	ALA
12	AR	99	ASP
18	AY	51	THR
18	AY	121	ALA
19	AZ	62	VAL
19	AZ	78	LYS
22	Ac	39	SER
23	AD	80	PRO
24	Ae	23	GLU
25	Af	93	HIS
25	Af	94	LYS
25	Af	147	THR
26	AJ	116	LYS
27	AE	90	ILE
27	AE	134	LYS
27	AE	213	ALA
28	AC	179	THR
32	AW	67	GLY
33	AI	52	ASN
33	AI	59	ARG
34	AQ	43	GLU
35	Ah	141	PRO
35	Ah	173	GLY
39	Cq	133	GLU
40	CK	36	GLY
40	CK	96	LYS
40	CK	124	GLU
42	CL	138	ASP
42	CL	146	LEU
46	CN	45	PRO
47	CI	25	GLY

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Mol	Chain	Res	Type
48	CD	125	VAL
49	CQ	42	THR
49	CQ	142	PRO
49	CQ	157	GLY
49	CQ	173	LYS
50	CR	55	VAL
51	CA	35	ALA
51	CA	123	ARG
51	CA	145	LYS
52	CS	4	SER
52	CS	74	ARG
60	Cr	37	SER
61	Ch	5	LYS
63	CB	378	ARG
64	CF	232	ASP
67	Ce	9	LYS
68	Cf	32	GLY
69	Cg	57	ARG
69	Cg	69	LYS
72	Ck	32	VAL
74	CC	30	ALA
74	CC	74	ALA
74	CC	234	LYS
75	Cm	78	ILE
77	Cp	51	ALA
80	CH	13	PRO
80	CH	188	GLN
81	CE	77	LYS
81	CE	80	VAL
82	CG	43	GLN
82	CG	74	LEU
82	CG	129	PRO
1	Az	7	ASP
1	Az	503	PRO
5	AO	24	GLY
5	AO	136	PRO
6	AX	78	GLY
10	AN	60	VAL
12	AR	116	ASN
16	AA	23	THR
16	AA	110	ASN
17	AV	9	VAL

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Mol	Chain	Res	Type
25	Af	87	THR
26	AJ	68	PRO
28	AC	181	PRO
29	AG	68	LEU
29	AG	165	GLU
30	AF	46	ALA
30	AF	183	GLY
31	AH	170	VAL
38	Cz	19	HIS
40	CK	138	SER
45	Ca	117	LEU
49	CQ	164	LYS
55	CU	125	GLU
57	CY	84	ARG
58	CW	63	GLN
58	CW	103	ALA
59	CZ	6	LYS
60	Cr	45	HIS
62	Cb	21	ILE
62	Cb	56	LYS
64	CF	222	LYS
67	Ce	15	LYS
71	Cj	85	LYS
73	Cl	3	SER
74	CC	54	VAL
74	CC	88	GLY
74	CC	329	ASN
77	Cp	52	VAL
78	Co	75	PRO
79	CJ	117	ILE
80	CH	41	ILE
81	CE	232	ILE
82	CG	80	ILE
84	Cu	46	LEU
1	Az	517	LEU
3	AU	104	ILE
23	AD	63	GLY
33	AI	119	LEU
39	Cq	198	ILE
53	CT	126	VAL
61	Ch	79	LYS
63	CB	36	ASP

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Mol	Chain	Res	Type
66	Cd	99	PRO
69	Cg	38	VAL
81	CE	117	PRO
81	CE	264	ILE
1	Az	109	VAL
27	AE	152	PRO
31	AH	10	LYS
39	Cq	80	PRO
43	CV	139	ILE
49	CQ	58	ARG
52	CS	17	LEU
68	Cf	60	PRO
81	CE	209	PRO
5	AO	62	VAL
15	AB	24	PRO
16	AA	95	GLY
16	AA	98	PRO
20	Aa	96	THR
21	Ab	37	CYS
27	AE	195	ILE
27	AE	231	GLY
28	AC	176	LYS
34	AQ	42	ILE
39	Cq	206	ILE
43	CV	57	VAL
49	CQ	155	ALA
63	CB	81	THR
66	Cd	111	VAL
74	CC	115	VAL
79	CJ	121	PRO
81	CE	185	PRO
3	AU	29	VAL
7	AM	30	GLY
9	Ad	11	PRO
21	Ab	9	HIS
31	AH	93	VAL
39	Cq	107	VAL
45	Ca	70	CYS
59	CZ	37	PRO
59	CZ	89	ILE
82	CG	103	ARG
1	Az	575	PRO

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Mol	Chain	Res	Type
12	AR	15	VAL
15	AB	21	VAL
39	Cq	82	ILE
53	CT	51	GLY
63	CB	18	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Az	728/730 (100%)	584 (80%)	144 (20%)	1	8
2	Ag	272/275 (99%)	219 (80%)	53 (20%)	1	8
3	AU	94/107 (88%)	72 (77%)	22 (23%)	1	5
4	AK	89/136 (65%)	63 (71%)	26 (29%)	0	3
5	AO	106/119 (89%)	88 (83%)	18 (17%)	2	11
6	AX	114/115 (99%)	90 (79%)	24 (21%)	1	6
7	AM	104/108 (96%)	81 (78%)	23 (22%)	1	6
8	AS	119/132 (90%)	95 (80%)	24 (20%)	1	7
9	Ad	47/49 (96%)	35 (74%)	12 (26%)	0	4
10	AN	130/131 (99%)	100 (77%)	30 (23%)	1	5
11	AL	142/142 (100%)	106 (75%)	36 (25%)	0	4
12	AR	114/122 (93%)	87 (76%)	27 (24%)	1	5
13	AP	116/130 (89%)	86 (74%)	30 (26%)	0	4
14	AT	112/115 (97%)	82 (73%)	30 (27%)	0	3
15	AB	196/231 (85%)	152 (78%)	44 (22%)	1	6
16	AA	174/243 (72%)	141 (81%)	33 (19%)	1	8
17	AV	66/67 (98%)	44 (67%)	22 (33%)	0	2
18	AY	108/115 (94%)	85 (79%)	23 (21%)	1	6
19	AZ	66/103 (64%)	53 (80%)	13 (20%)	1	8
20	Aa	90/98 (92%)	75 (83%)	15 (17%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	Ab	76/76 (100%)	64 (84%)	12 (16%)	2	12
22	Ac	57/62 (92%)	43 (75%)	14 (25%)	1	4
23	AD	190/202 (94%)	144 (76%)	46 (24%)	1	4
24	Ae	48/48 (100%)	25 (52%)	23 (48%)	0	0
25	Af	64/72 (89%)	42 (66%)	22 (34%)	0	2
26	AJ	157/168 (94%)	128 (82%)	29 (18%)	1	9
27	AE	225/225 (100%)	169 (75%)	56 (25%)	0	4
28	AC	190/225 (84%)	140 (74%)	50 (26%)	0	3
29	AG	207/218 (95%)	157 (76%)	50 (24%)	1	4
30	AF	161/170 (95%)	114 (71%)	47 (29%)	0	3
31	AH	170/174 (98%)	124 (73%)	46 (27%)	0	3
32	AW	112/113 (99%)	97 (87%)	15 (13%)	4	15
33	AI	178/180 (99%)	137 (77%)	41 (23%)	1	5
34	AQ	117/121 (97%)	83 (71%)	34 (29%)	0	3
35	Ah	55/328 (17%)	41 (74%)	14 (26%)	0	4
38	Cz	195/196 (100%)	174 (89%)	21 (11%)	6	21
39	Cq	232/258 (90%)	190 (82%)	42 (18%)	2	10
40	CK	136/137 (99%)	112 (82%)	24 (18%)	2	10
41	CO	173/174 (99%)	132 (76%)	41 (24%)	1	5
42	CL	176/177 (99%)	133 (76%)	43 (24%)	1	4
43	CV	102/107 (95%)	82 (80%)	20 (20%)	1	8
44	CM	118/161 (73%)	85 (72%)	33 (28%)	0	3
45	Ca	120/121 (99%)	100 (83%)	20 (17%)	2	11
46	CN	171/172 (99%)	128 (75%)	43 (25%)	0	4
47	CI	180/181 (99%)	149 (83%)	31 (17%)	2	11
48	CD	243/250 (97%)	211 (87%)	32 (13%)	4	16
49	CQ	165/165 (100%)	118 (72%)	47 (28%)	0	3
50	CR	168/175 (96%)	122 (73%)	46 (27%)	0	3
51	CA	197/199 (99%)	164 (83%)	33 (17%)	2	11
52	CS	156/157 (99%)	99 (64%)	57 (36%)	0	1
53	CT	139/140 (99%)	94 (68%)	45 (32%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
54	CP	133/163 (82%)	93 (70%)	40 (30%)	0	2
55	CU	102/115 (89%)	78 (76%)	24 (24%)	1	5
56	CX	109/133 (82%)	79 (72%)	30 (28%)	0	3
57	CY	123/135 (91%)	96 (78%)	27 (22%)	1	6
58	CW	103/126 (82%)	73 (71%)	30 (29%)	0	3
59	CZ	117/118 (99%)	84 (72%)	33 (28%)	0	3
60	Cr	121/121 (100%)	92 (76%)	29 (24%)	1	5
61	Ch	110/110 (100%)	83 (76%)	27 (24%)	1	4
62	Cb	66/126 (52%)	39 (59%)	27 (41%)	0	0
63	CB	345/349 (99%)	262 (76%)	83 (24%)	1	4
64	CF	198/215 (92%)	170 (86%)	28 (14%)	3	14
65	Cc	85/97 (88%)	73 (86%)	12 (14%)	3	14
66	Cd	102/110 (93%)	82 (80%)	20 (20%)	1	8
67	Ce	119/121 (98%)	87 (73%)	32 (27%)	0	3
68	Cf	88/89 (99%)	60 (68%)	28 (32%)	0	2
69	Cg	98/100 (98%)	61 (62%)	37 (38%)	0	1
70	Ci	87/89 (98%)	52 (60%)	35 (40%)	0	1
71	Cj	75/80 (94%)	54 (72%)	21 (28%)	0	3
72	Ck	64/65 (98%)	47 (73%)	17 (27%)	0	3
73	Cl	47/48 (98%)	34 (72%)	13 (28%)	0	3
74	CC	305/348 (88%)	213 (70%)	92 (30%)	0	2
75	Cm	48/48 (100%)	31 (65%)	17 (35%)	0	1
76	Cn	24/24 (100%)	13 (54%)	11 (46%)	0	0
77	Cp	74/75 (99%)	52 (70%)	22 (30%)	0	2
78	Co	93/94 (99%)	59 (63%)	34 (37%)	0	1
79	CJ	142/149 (95%)	127 (89%)	15 (11%)	6	22
80	CH	170/171 (99%)	146 (86%)	24 (14%)	3	14
81	CE	232/252 (92%)	153 (66%)	79 (34%)	0	2
82	CG	209/223 (94%)	142 (68%)	67 (32%)	0	2
83	Cs	46/81 (57%)	46 (100%)	0	100	100
83	Ct	46/81 (57%)	46 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
84	Cu	46/83 (55%)	45 (98%)	1 (2%)	45 64
84	Cv	46/83 (55%)	45 (98%)	1 (2%)	45 64
All	All	11438/12642 (90%)	8756 (77%)	2682 (23%)	2 5

All (2682) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Az	3	ASN
1	Az	5	THR
1	Az	6	VAL
1	Az	12	ILE
1	Az	15	LYS
1	Az	16	LYS
1	Az	27	HIS
1	Az	45	ILE
1	Az	46	ILE
1	Az	48	SER
1	Az	50	ARG
1	Az	53	GLU
1	Az	60	ARG
1	Az	61	LYS
1	Az	64	GLN
1	Az	71	LYS
1	Az	73	THR
1	Az	75	ILE
1	Az	79	TYR
1	Az	91	GLN
1	Az	92	SER
1	Az	93	LYS
1	Az	109	VAL
1	Az	110	ASP
1	Az	111	PHE
1	Az	113	SER
1	Az	114	GLU
1	Az	122	THR
1	Az	141	THR
1	Az	144	ARG
1	Az	159	LYS
1	Az	162	ARG
1	Az	166	GLU
1	Az	167	LEU

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Mol	Chain	Res	Type
1	Az	168	GLN
1	Az	169	LEU
1	Az	183	GLU
1	Az	194	GLU
1	Az	196	GLU
1	Az	200	MET
1	Az	209	LEU
1	Az	216	SER
1	Az	225	LEU
1	Az	226	LYS
1	Az	228	PHE
1	Az	236	PHE
1	Az	239	LYS
1	Az	244	LEU
1	Az	248	GLU
1	Az	251	LYS
1	Az	252	LYS
1	Az	256	MET
1	Az	264	ARG
1	Az	265	TYR
1	Az	267	ASP
1	Az	272	LYS
1	Az	275	LYS
1	Az	281	GLU
1	Az	284	LYS
1	Az	311	GLU
1	Az	314	LYS
1	Az	317	GLU
1	Az	322	LYS
1	Az	326	GLU
1	Az	330	LYS
1	Az	331	GLU
1	Az	333	LYS
1	Az	343	TRP
1	Az	359	PRO
1	Az	366	LYS
1	Az	368	ARG
1	Az	370	GLU
1	Az	371	LEU
1	Az	393	PRO
1	Az	400	LYS
1	Az	409	ARG

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Mol	Chain	Res	Type
1	Az	411	TYR
1	Az	420	LEU
1	Az	430	MET
1	Az	438	LYS
1	Az	439	LYS
1	Az	448	GLN
1	Az	461	ILE
1	Az	462	GLU
1	Az	477	GLN
1	Az	481	LYS
1	Az	488	PHE
1	Az	489	GLU
1	Az	492	HIS
1	Az	493	ASN
1	Az	495	ARG
1	Az	497	MET
1	Az	498	LYS
1	Az	499	PHE
1	Az	502	SER
1	Az	519	LYS
1	Az	524	LEU
1	Az	525	LYS
1	Az	526	ARG
1	Az	540	GLU
1	Az	541	SER
1	Az	559	LYS
1	Az	560	ASP
1	Az	563	GLU
1	Az	570	ILE
1	Az	571	LYS
1	Az	572	LYS
1	Az	577	VAL
1	Az	579	TYR
1	Az	592	LEU
1	Az	607	ARG
1	Az	609	PHE
1	Az	613	LEU
1	Az	615	GLU
1	Az	619	LYS
1	Az	625	ARG
1	Az	630	GLN
1	Az	641	TRP

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Mol	Chain	Res	Type
1	Az	647	ARG
1	Az	667	LYS
1	Az	669	VAL
1	Az	673	ASN
1	Az	689	GLU
1	Az	726	ARG
1	Az	727	ARG
1	Az	747	VAL
1	Az	748	GLU
1	Az	754	GLN
1	Az	775	GLN
1	Az	785	LYS
1	Az	794	PHE
1	Az	801	ARG
1	Az	807	GLN
1	Az	811	GLN
1	Az	823	ASP
1	Az	827	ASN
1	Az	830	ARG
1	Az	842	LYS
1	Az	845	LYS
1	Az	848	ILE
1	Az	849	PRO
1	Az	854	PHE
1	Az	855	LEU
1	Az	858	LEU
2	Ag	5	MET
2	Ag	8	ARG
2	Ag	12	LYS
2	Ag	24	THR
2	Ag	25	PRO
2	Ag	36	ARG
2	Ag	38	LYS
2	Ag	44	LYS
2	Ag	47	ARG
2	Ag	50	THR
2	Ag	51	ASN
2	Ag	57	ARG
2	Ag	60	ARG
2	Ag	64	HIS
2	Ag	68	ASP
2	Ag	74	ASP

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Mol	Chain	Res	Type
2	Ag	76	GLN
2	Ag	87	LEU
2	Ag	88	ARG
2	Ag	93	THR
2	Ag	100	ARG
2	Ag	118	ARG
2	Ag	119	GLN
2	Ag	131	LEU
2	Ag	135	LEU
2	Ag	139	LYS
2	Ag	140	TYR
2	Ag	143	GLN
2	Ag	145	GLU
2	Ag	146	SER
2	Ag	149	GLU
2	Ag	156	PHE
2	Ag	161	SER
2	Ag	175	LYS
2	Ag	179	LEU
2	Ag	183	LYS
2	Ag	185	LYS
2	Ag	192	THR
2	Ag	203	ASP
2	Ag	212	LYS
2	Ag	218	LEU
2	Ag	225	LYS
2	Ag	246	TYR
2	Ag	259	TRP
2	Ag	264	LYS
2	Ag	271	LYS
2	Ag	275	ILE
2	Ag	276	SER
2	Ag	277	THR
2	Ag	279	SER
2	Ag	280	LYS
2	Ag	289	LEU
2	Ag	294	ASP
3	AU	19	ARG
3	AU	20	ILE
3	AU	21	ARG
3	AU	24	LEU
3	AU	33	GLU

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Mol	Chain	Res	Type
3	AU	44	LYS
3	AU	47	ASN
3	AU	48	LEU
3	AU	49	LYS
3	AU	51	LYS
3	AU	62	ARG
3	AU	68	THR
3	AU	72	GLU
3	AU	75	LYS
3	AU	85	HIS
3	AU	87	ARG
3	AU	104	ILE
3	AU	105	SER
3	AU	106	ILE
3	AU	107	GLU
3	AU	108	PRO
3	AU	111	GLU
4	AK	1	MET
4	AK	2	LEU
4	AK	3	MET
4	AK	5	LYS
4	AK	13	GLU
4	AK	17	LYS
4	AK	18	GLU
4	AK	20	VAL
4	AK	31	LYS
4	AK	34	GLU
4	AK	35	LEU
4	AK	37	ASP
4	AK	38	LYS
4	AK	43	LEU
4	AK	53	LYS
4	AK	55	ARG
4	AK	65	ARG
4	AK	74	GLU
4	AK	84	HIS
4	AK	85	LEU
4	AK	89	ILE
4	AK	93	THR
4	AK	94	LEU
4	AK	95	ARG
4	AK	96	ARG

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Mol	Chain	Res	Type
4	AK	98	ARG
5	AO	23	GLU
5	AO	25	GLU
5	AO	28	PHE
5	AO	65	ASP
5	AO	66	ARG
5	AO	72	TYR
5	AO	90	ILE
5	AO	104	ARG
5	AO	116	LEU
5	AO	117	ARG
5	AO	121	ARG
5	AO	125	LYS
5	AO	128	ARG
5	AO	129	ILE
5	AO	138	ASP
5	AO	141	ARG
5	AO	146	ARG
5	AO	150	ARG
6	AX	1	MET
6	AX	3	LYS
6	AX	5	ARG
6	AX	7	LEU
6	AX	12	LYS
6	AX	21	LYS
6	AX	29	LYS
6	AX	37	LYS
6	AX	67	ARG
6	AX	68	LYS
6	AX	71	ARG
6	AX	75	ILE
6	AX	80	LYS
6	AX	91	LEU
6	AX	101	LEU
6	AX	107	ARG
6	AX	108	LYS
6	AX	110	HIS
6	AX	115	ILE
6	AX	128	VAL
6	AX	135	LYS
6	AX	139	GLU
6	AX	141	PRO

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Mol	Chain	Res	Type
6	AX	142	ARG
7	AM	12	MET
7	AM	13	ASP
7	AM	18	LEU
7	AM	20	GLU
7	AM	23	LYS
7	AM	26	LEU
7	AM	28	HIS
7	AM	33	ARG
7	AM	36	ARG
7	AM	40	LYS
7	AM	43	ASP
7	AM	45	ARG
7	AM	71	GLU
7	AM	76	LEU
7	AM	77	ILE
7	AM	78	LYS
7	AM	83	LYS
7	AM	85	LEU
7	AM	91	LEU
7	AM	94	ILE
7	AM	101	ARG
7	AM	102	LYS
7	AM	117	GLU
8	AS	7	GLU
8	AS	8	LYS
8	AS	9	PHE
8	AS	11	HIS
8	AS	12	ILE
8	AS	17	ASN
8	AS	24	ARG
8	AS	34	LYS
8	AS	36	VAL
8	AS	39	ARG
8	AS	50	ILE
8	AS	59	LEU
8	AS	63	GLU
8	AS	71	MET
8	AS	78	LYS
8	AS	87	GLN
8	AS	90	VAL
8	AS	92	ASP

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Mol	Chain	Res	Type
8	AS	94	LYS
8	AS	118	ARG
8	AS	130	ARG
8	AS	134	GLN
8	AS	137	LYS
8	AS	142	ARG
9	Ad	7	TYR
9	Ad	10	HIS
9	Ad	13	LYS
9	Ad	16	GLN
9	Ad	19	ARG
9	Ad	27	ARG
9	Ad	30	LEU
9	Ad	33	LYS
9	Ad	44	ARG
9	Ad	46	TYR
9	Ad	53	ILE
9	Ad	56	ASP
10	AN	3	ARG
10	AN	9	LYS
10	AN	16	LEU
10	AN	21	SER
10	AN	27	LYS
10	AN	49	GLN
10	AN	50	ILE
10	AN	53	ILE
10	AN	56	ASP
10	AN	64	ARG
10	AN	70	LYS
10	AN	73	ARG
10	AN	76	LYS
10	AN	78	LYS
10	AN	80	LEU
10	AN	93	LYS
10	AN	94	LYS
10	AN	104	ARG
10	AN	107	LYS
10	AN	112	LYS
10	AN	114	ARG
10	AN	119	GLU
10	AN	121	ARG
10	AN	125	LEU

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Mol	Chain	Res	Type
10	AN	130	LYS
10	AN	133	ARG
10	AN	134	VAL
10	AN	140	LYS
10	AN	141	TYR
10	AN	142	GLU
11	AL	1	MET
11	AL	4	ILE
11	AL	7	GLU
11	AL	8	ARG
11	AL	15	THR
11	AL	18	GLN
11	AL	20	LYS
11	AL	22	ARG
11	AL	25	LEU
11	AL	30	LYS
11	AL	40	ILE
11	AL	49	GLU
11	AL	56	ILE
11	AL	69	ARG
11	AL	71	ARG
11	AL	79	LYS
11	AL	80	MET
11	AL	82	MET
11	AL	83	GLN
11	AL	89	ARG
11	AL	97	ARG
11	AL	99	TYR
11	AL	100	ASN
11	AL	101	ARG
11	AL	102	PHE
11	AL	111	VAL
11	AL	118	ARG
11	AL	121	GLN
11	AL	136	LYS
11	AL	147	LYS
11	AL	151	THR
11	AL	153	LYS
11	AL	155	PHE
11	AL	156	GLN
11	AL	157	LYS
11	AL	158	PHE

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Mol	Chain	Res	Type
12	AR	1	MET
12	AR	8	THR
12	AR	10	LYS
12	AR	32	LYS
12	AR	38	ILE
12	AR	47	ARG
12	AR	59	LYS
12	AR	63	ARG
12	AR	69	ILE
12	AR	72	LYS
12	AR	78	ARG
12	AR	83	ASN
12	AR	87	GLU
12	AR	88	VAL
12	AR	89	SER
12	AR	91	LEU
12	AR	93	GLN
12	AR	94	GLU
12	AR	95	ILE
12	AR	103	LYS
12	AR	105	MET
12	AR	111	PHE
12	AR	117	LEU
12	AR	118	GLN
12	AR	120	THR
12	AR	121	GLN
12	AR	123	THR
13	AP	5	GLU
13	AP	6	GLN
13	AP	7	LYS
13	AP	9	LYS
13	AP	10	ARG
13	AP	13	ARG
13	AP	14	LYS
13	AP	15	PHE
13	AP	17	TYR
13	AP	34	MET
13	AP	40	ARG
13	AP	41	GLN
13	AP	43	ARG
13	AP	50	ARG
13	AP	52	LYS

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Mol	Chain	Res	Type
13	AP	61	ARG
13	AP	64	LYS
13	AP	71	GLU
13	AP	72	LYS
13	AP	84	ILE
13	AP	86	LEU
13	AP	88	GLU
13	AP	89	MET
13	AP	100	LYS
13	AP	104	GLN
13	AP	110	GLU
13	AP	111	MET
13	AP	122	THR
13	AP	124	LYS
13	AP	127	LYS
14	AT	11	GLN
14	AT	16	ARG
14	AT	21	PHE
14	AT	23	LYS
14	AT	28	LEU
14	AT	29	LYS
14	AT	30	VAL
14	AT	31	PRO
14	AT	38	LYS
14	AT	44	GLU
14	AT	62	ARG
14	AT	64	LEU
14	AT	66	LEU
14	AT	72	VAL
14	AT	82	ARG
14	AT	83	GLN
14	AT	84	ARG
14	AT	88	MET
14	AT	91	HIS
14	AT	93	SER
14	AT	94	ARG
14	AT	97	LYS
14	AT	102	ARG
14	AT	111	LYS
14	AT	117	GLN
14	AT	121	ARG
14	AT	130	ASP

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Mol	Chain	Res	Type
14	AT	133	ARG
14	AT	143	LYS
14	AT	144	LYS
15	AB	19	LYS
15	AB	20	LYS
15	AB	21	VAL
15	AB	22	VAL
15	AB	34	LYS
15	AB	41	ILE
15	AB	46	LYS
15	AB	48	LEU
15	AB	52	THR
15	AB	55	THR
15	AB	56	LYS
15	AB	57	ILE
15	AB	75	GLN
15	AB	78	GLU
15	AB	82	ARG
15	AB	83	LYS
15	AB	89	GLU
15	AB	94	LYS
15	AB	115	LYS
15	AB	116	LYS
15	AB	131	ASP
15	AB	138	PHE
15	AB	144	LYS
15	AB	145	LYS
15	AB	146	ARG
15	AB	148	ASN
15	AB	150	ILE
15	AB	151	ARG
15	AB	158	HIS
15	AB	162	ARG
15	AB	165	ARG
15	AB	166	LYS
15	AB	172	MET
15	AB	181	LEU
15	AB	182	LYS
15	AB	195	LYS
15	AB	208	HIS
15	AB	211	PHE
15	AB	213	ARG

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Mol	Chain	Res	Type
15	AB	214	LYS
15	AB	219	LYS
15	AB	222	LYS
15	AB	227	LYS
15	AB	229	MET
16	AA	5	LEU
16	AA	7	VAL
16	AA	10	MET
16	AA	12	GLU
16	AA	13	GLU
16	AA	17	LYS
16	AA	19	LEU
16	AA	25	LEU
16	AA	36	GLN
16	AA	40	LYS
16	AA	42	LYS
16	AA	44	ASP
16	AA	52	LYS
16	AA	54	THR
16	AA	58	LEU
16	AA	60	LEU
16	AA	63	ARG
16	AA	74	VAL
16	AA	88	LEU
16	AA	89	LYS
16	AA	128	ARG
16	AA	139	TYR
16	AA	147	LEU
16	AA	155	ARG
16	AA	159	ILE
16	AA	169	HIS
16	AA	181	GLU
16	AA	186	ARG
16	AA	188	THR
16	AA	196	GLU
16	AA	198	MET
16	AA	204	TYR
16	AA	207	PRO
17	AV	1	MET
17	AV	3	ASN
17	AV	7	GLU
17	AV	16	LYS

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Mol	Chain	Res	Type
17	AV	22	ARG
17	AV	24	ILE
17	AV	31	SER
17	AV	40	ASP
17	AV	41	LYS
17	AV	42	VAL
17	AV	43	THR
17	AV	45	ARG
17	AV	49	GLN
17	AV	51	LYS
17	AV	52	THR
17	AV	55	ILE
17	AV	61	ARG
17	AV	64	GLU
17	AV	74	LYS
17	AV	78	ILE
17	AV	79	VAL
17	AV	81	LYS
18	AY	16	ARG
18	AY	20	ARG
18	AY	21	LYS
18	AY	23	MET
18	AY	29	HIS
18	AY	32	LYS
18	AY	35	VAL
18	AY	44	LEU
18	AY	46	LYS
18	AY	58	PHE
18	AY	61	ARG
18	AY	64	PHE
18	AY	68	LYS
18	AY	93	ARG
18	AY	96	LEU
18	AY	98	GLU
18	AY	99	LYS
18	AY	100	LYS
18	AY	101	LYS
18	AY	102	THR
18	AY	111	LYS
18	AY	118	ARG
18	AY	122	LYS
19	AZ	44	LEU

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Mol	Chain	Res	Type
19	AZ	50	PHE
19	AZ	52	LYS
19	AZ	65	TYR
19	AZ	85	ARG
19	AZ	91	LEU
19	AZ	94	LYS
19	AZ	102	LYS
19	AZ	103	HIS
19	AZ	104	ARG
19	AZ	107	VAL
19	AZ	112	ASN
19	AZ	114	LYS
20	Aa	12	LYS
20	Aa	15	ARG
20	Aa	26	CYS
20	Aa	38	LYS
20	Aa	41	ILE
20	Aa	44	ILE
20	Aa	50	VAL
20	Aa	51	ARG
20	Aa	60	ASP
20	Aa	63	VAL
20	Aa	70	LYS
20	Aa	82	LYS
20	Aa	85	ARG
20	Aa	94	ASP
20	Aa	95	ARG
21	Ab	3	LEU
21	Ab	5	LYS
21	Ab	16	LYS
21	Ab	20	LYS
21	Ab	26	GLN
21	Ab	41	TYR
21	Ab	42	LYS
21	Ab	49	HIS
21	Ab	51	GLN
21	Ab	53	VAL
21	Ab	83	GLN
21	Ab	84	HIS
22	Ac	5	ARG
22	Ac	6	VAL
22	Ac	7	GLN

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Mol	Chain	Res	Type
22	Ac	13	ARG
22	Ac	35	MET
22	Ac	42	ILE
22	Ac	44	ARG
22	Ac	47	LYS
22	Ac	51	ARG
22	Ac	62	GLU
22	Ac	63	ARG
22	Ac	64	GLU
22	Ac	67	ARG
22	Ac	68	LEU
23	AD	8	LYS
23	AD	10	LYS
23	AD	18	LYS
23	AD	21	LEU
23	AD	31	GLU
23	AD	35	SER
23	AD	44	THR
23	AD	56	GLN
23	AD	64	ARG
23	AD	67	ARG
23	AD	74	GLN
23	AD	76	ARG
23	AD	79	PHE
23	AD	89	GLU
23	AD	90	LYS
23	AD	94	ARG
23	AD	103	GLU
23	AD	113	LEU
23	AD	120	TYR
23	AD	127	MET
23	AD	129	SER
23	AD	146	ARG
23	AD	151	LYS
23	AD	156	LEU
23	AD	157	MET
23	AD	158	ILE
23	AD	176	LEU
23	AD	177	LEU
23	AD	178	ARG
23	AD	182	LEU
23	AD	187	LYS

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Mol	Chain	Res	Type
23	AD	190	LEU
23	AD	192	TRP
23	AD	197	LYS
23	AD	198	ILE
23	AD	202	LYS
23	AD	207	HIS
23	AD	211	VAL
23	AD	212	GLU
23	AD	214	LYS
23	AD	215	ASP
23	AD	216	GLU
23	AD	217	ILE
23	AD	218	LEU
23	AD	220	THR
23	AD	226	GLN
24	Ae	2	VAL
24	Ae	6	LEU
24	Ae	11	LYS
24	Ae	18	LYS
24	Ae	21	LYS
24	Ae	23	GLU
24	Ae	24	LYS
24	Ae	26	LYS
24	Ae	27	LYS
24	Ae	28	LYS
24	Ae	29	THR
24	Ae	31	ARG
24	Ae	34	ARG
24	Ae	36	MET
24	Ae	40	ARG
24	Ae	41	ARG
24	Ae	43	VAL
24	Ae	46	VAL
24	Ae	48	THR
24	Ae	49	PHE
24	Ae	51	LYS
24	Ae	52	LYS
24	Ae	53	LYS
25	Af	86	THR
25	Af	88	PRO
25	Af	89	LYS
25	Af	90	LYS

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Mol	Chain	Res	Type
25	Af	94	LYS
25	Af	95	ARG
25	Af	96	LYS
25	Af	97	LYS
25	Af	104	LYS
25	Af	107	LYS
25	Af	109	ASP
25	Af	110	GLU
25	Af	111	ASN
25	Af	113	LYS
25	Af	116	ARG
25	Af	118	ARG
25	Af	121	CYS
25	Af	130	VAL
25	Af	135	HIS
25	Af	136	PHE
25	Af	139	HIS
25	Af	150	PHE
26	AJ	8	VAL
26	AJ	10	ARG
26	AJ	17	ARG
26	AJ	18	ARG
26	AJ	21	GLU
26	AJ	29	LEU
26	AJ	38	ARG
26	AJ	42	GLU
26	AJ	50	LEU
26	AJ	58	ARG
26	AJ	66	LYS
26	AJ	69	ARG
26	AJ	79	ARG
26	AJ	89	GLU
26	AJ	93	LYS
26	AJ	101	LYS
26	AJ	109	ARG
26	AJ	110	LEU
26	AJ	119	LEU
26	AJ	121	LYS
26	AJ	127	ARG
26	AJ	139	LYS
26	AJ	143	ASN
26	AJ	162	ARG

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Mol	Chain	Res	Type
26	AJ	165	TYR
26	AJ	172	ARG
26	AJ	174	LYS
26	AJ	176	LYS
26	AJ	180	LYS
27	AE	1	MET
27	AE	3	ARG
27	AE	6	LYS
27	AE	7	LYS
27	AE	9	LEU
27	AE	10	LYS
27	AE	38	LEU
27	AE	39	ARG
27	AE	48	LEU
27	AE	49	ARG
27	AE	51	ARG
27	AE	56	LEU
27	AE	65	CYS
27	AE	67	GLN
27	AE	68	ARG
27	AE	77	ARG
27	AE	94	LYS
27	AE	97	GLU
27	AE	106	LYS
27	AE	118	GLU
27	AE	120	LYS
27	AE	122	LYS
27	AE	123	LEU
27	AE	125	LYS
27	AE	126	VAL
27	AE	128	LYS
27	AE	130	PHE
27	AE	133	THR
27	AE	136	ILE
27	AE	145	ARG
27	AE	147	ILE
27	AE	148	ARG
27	AE	151	ASP
27	AE	153	LEU
27	AE	164	LEU
27	AE	165	GLU
27	AE	168	LYS

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Mol	Chain	Res	Type
27	AE	174	LYS
27	AE	175	PHE
27	AE	180	LEU
27	AE	181	CYS
27	AE	191	ARG
27	AE	198	ARG
27	AE	200	ARG
27	AE	202	PRO
27	AE	211	LYS
27	AE	212	ASP
27	AE	221	ARG
27	AE	222	LEU
27	AE	237	SER
27	AE	240	ARG
27	AE	242	LYS
27	AE	245	ARG
27	AE	246	LEU
27	AE	259	LYS
27	AE	260	GLN
28	AC	54	LYS
28	AC	58	LYS
28	AC	61	MET
28	AC	63	VAL
28	AC	64	THR
28	AC	65	LYS
28	AC	66	LEU
28	AC	71	LYS
28	AC	73	MET
28	AC	74	LYS
28	AC	76	LYS
28	AC	94	ILE
28	AC	102	LEU
28	AC	104	ASP
28	AC	110	MET
28	AC	113	GLN
28	AC	114	LYS
28	AC	115	GLN
28	AC	116	THR
28	AC	117	ARG
28	AC	120	GLN
28	AC	134	ASN
28	AC	142	LYS

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Mol	Chain	Res	Type
28	AC	146	GLU
28	AC	160	LEU
28	AC	166	ARG
28	AC	167	ARG
28	AC	172	ASN
28	AC	173	LYS
28	AC	176	LYS
28	AC	183	LYS
28	AC	184	VAL
28	AC	211	LYS
28	AC	212	LYS
28	AC	215	MET
28	AC	216	MET
28	AC	227	ARG
28	AC	236	PHE
28	AC	238	LYS
28	AC	246	LYS
28	AC	250	TYR
28	AC	251	LEU
28	AC	257	LYS
28	AC	259	THR
28	AC	261	PHE
28	AC	262	THR
28	AC	263	LYS
28	AC	267	GLN
28	AC	271	ASP
28	AC	275	LYS
29	AG	1	MET
29	AG	2	LYS
29	AG	13	GLN
29	AG	17	GLU
29	AG	19	ASP
29	AG	25	ARG
29	AG	29	GLU
29	AG	30	LYS
29	AG	31	ARG
29	AG	32	MET
29	AG	44	GLU
29	AG	58	LYS
29	AG	64	LYS
29	AG	74	ARG
29	AG	76	LEU

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Mol	Chain	Res	Type
29	AG	77	LEU
29	AG	79	LYS
29	AG	98	ARG
29	AG	115	LYS
29	AG	116	LYS
29	AG	120	ASP
29	AG	121	ILE
29	AG	124	LEU
29	AG	126	ASP
29	AG	127	THR
29	AG	128	THR
29	AG	131	ARG
29	AG	133	LEU
29	AG	137	ARG
29	AG	142	ARG
29	AG	143	LYS
29	AG	145	PHE
29	AG	150	GLU
29	AG	158	VAL
29	AG	164	LYS
29	AG	168	LYS
29	AG	170	ARG
29	AG	172	LYS
29	AG	178	ARG
29	AG	179	LEU
29	AG	180	VAL
29	AG	196	LYS
29	AG	198	ARG
29	AG	200	LYS
29	AG	203	LYS
29	AG	217	MET
29	AG	218	LYS
29	AG	224	ARG
29	AG	230	LYS
29	AG	233	ARG
30	AF	18	LYS
30	AF	29	GLN
30	AF	36	GLN
30	AF	37	ASP
30	AF	38	TYR
30	AF	41	VAL
30	AF	42	LYS

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Mol	Chain	Res	Type
30	AF	43	GLU
30	AF	44	LYS
30	AF	47	LYS
30	AF	49	LEU
30	AF	60	ARG
30	AF	62	ARG
30	AF	63	LYS
30	AF	65	GLN
30	AF	71	ARG
30	AF	72	LEU
30	AF	76	MET
30	AF	78	MET
30	AF	85	LYS
30	AF	88	MET
30	AF	91	ARG
30	AF	94	LYS
30	AF	95	HIS
30	AF	98	GLU
30	AF	110	GLN
30	AF	116	ILE
30	AF	122	ARG
30	AF	123	GLU
30	AF	125	SER
30	AF	127	ARG
30	AF	128	ILE
30	AF	130	ARG
30	AF	136	ARG
30	AF	141	VAL
30	AF	145	ARG
30	AF	164	ARG
30	AF	167	LYS
30	AF	173	LEU
30	AF	175	ASP
30	AF	177	LEU
30	AF	182	LYS
30	AF	190	ILE
30	AF	192	LYS
30	AF	195	GLU
30	AF	202	SER
30	AF	204	ARG
31	AH	9	VAL
31	AH	10	LYS

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Mol	Chain	Res	Type
31	AH	11	PRO
31	AH	14	GLU
31	AH	15	LYS
31	AH	16	PRO
31	AH	23	ILE
31	AH	32	MET
31	AH	34	SER
31	AH	36	LEU
31	AH	37	LYS
31	AH	40	LEU
31	AH	57	ARG
31	AH	58	LYS
31	AH	61	ILE
31	AH	69	LEU
31	AH	70	LYS
31	AH	72	PHE
31	AH	74	LYS
31	AH	81	ARG
31	AH	82	GLU
31	AH	85	LYS
31	AH	93	VAL
31	AH	99	ARG
31	AH	105	THR
31	AH	107	LYS
31	AH	109	ARG
31	AH	111	LYS
31	AH	112	ASN
31	AH	113	LYS
31	AH	116	ARG
31	AH	118	ARG
31	AH	120	ARG
31	AH	122	LEU
31	AH	131	GLU
31	AH	133	LEU
31	AH	143	ARG
31	AH	145	ARG
31	AH	154	ILE
31	AH	157	HIS
31	AH	158	LEU
31	AH	160	LYS
31	AH	163	GLN
31	AH	185	VAL

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Mol	Chain	Res	Type
31	AH	193	GLN
31	AH	194	LEU
32	AW	3	ARG
32	AW	4	MET
32	AW	18	GLU
32	AW	20	ARG
32	AW	23	ARG
32	AW	52	ILE
32	AW	64	ASN
32	AW	75	ILE
32	AW	84	LYS
32	AW	98	GLN
32	AW	103	VAL
32	AW	114	GLU
32	AW	124	LYS
32	AW	128	PHE
32	AW	129	PHE
33	AI	3	ILE
33	AI	5	ARG
33	AI	6	ASP
33	AI	13	LYS
33	AI	18	ARG
33	AI	19	LYS
33	AI	23	LYS
33	AI	25	ARG
33	AI	31	ARG
33	AI	37	LYS
33	AI	41	ARG
33	AI	47	ARG
33	AI	49	ARG
33	AI	56	ARG
33	AI	70	GLU
33	AI	74	ARG
33	AI	75	LYS
33	AI	92	ARG
33	AI	100	CYS
33	AI	110	ARG
33	AI	117	TYR
33	AI	119	LEU
33	AI	124	LYS
33	AI	129	LEU
33	AI	140	LYS

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Mol	Chain	Res	Type
33	AI	141	ARG
33	AI	143	LYS
33	AI	144	LYS
33	AI	148	LYS
33	AI	150	ASP
33	AI	154	LYS
33	AI	155	ASN
33	AI	157	LYS
33	AI	158	ILE
33	AI	161	LEU
33	AI	167	GLN
33	AI	178	ARG
33	AI	202	ILE
33	AI	203	LYS
33	AI	205	ARG
33	AI	206	LYS
34	AQ	6	PRO
34	AQ	7	LEU
34	AQ	13	PHE
34	AQ	17	LYS
34	AQ	20	THR
34	AQ	24	HIS
34	AQ	26	LYS
34	AQ	29	ASN
34	AQ	33	LYS
34	AQ	37	ARG
34	AQ	40	GLU
34	AQ	41	MET
34	AQ	56	LEU
34	AQ	62	ARG
34	AQ	73	LYS
34	AQ	80	GLN
34	AQ	85	ARG
34	AQ	101	ASP
34	AQ	102	GLU
34	AQ	105	LYS
34	AQ	107	GLU
34	AQ	109	LYS
34	AQ	111	ILE
34	AQ	115	TYR
34	AQ	117	ARG
34	AQ	120	LEU

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Mol	Chain	Res	Type
34	AQ	126	ARG
34	AQ	130	LYS
34	AQ	131	LYS
34	AQ	135	PRO
34	AQ	140	ARG
34	AQ	142	GLN
34	AQ	145	TYR
34	AQ	146	ARG
35	Ah	140	LYS
35	Ah	142	LEU
35	Ah	145	LYS
35	Ah	151	PHE
35	Ah	155	ARG
35	Ah	160	ARG
35	Ah	165	ARG
35	Ah	170	ARG
35	Ah	172	ARG
35	Ah	179	MET
35	Ah	181	ARG
35	Ah	185	PHE
35	Ah	286	LYS
35	Ah	297	GLN
38	Cz	17	VAL
38	Cz	29	LEU
38	Cz	34	LEU
38	Cz	35	GLN
38	Cz	58	THR
38	Cz	91	LYS
38	Cz	99	LEU
38	Cz	100	VAL
38	Cz	101	LYS
38	Cz	111	LEU
38	Cz	119	GLN
38	Cz	130	LYS
38	Cz	147	LYS
38	Cz	156	LYS
38	Cz	159	MET
38	Cz	160	LYS
38	Cz	163	LEU
38	Cz	194	LEU
38	Cz	207	LYS
38	Cz	210	MET

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Mol	Chain	Res	Type
38	Cz	212	LYS
39	Cq	5	ASP
39	Cq	6	ARG
39	Cq	14	PHE
39	Cq	16	LYS
39	Cq	18	ILE
39	Cq	24	TYR
39	Cq	26	LYS
39	Cq	34	ASN
39	Cq	42	GLN
39	Cq	44	ARG
39	Cq	45	MET
39	Cq	48	ARG
39	Cq	50	LYS
39	Cq	62	ARG
39	Cq	69	LEU
39	Cq	77	LYS
39	Cq	81	HIS
39	Cq	92	LYS
39	Cq	93	GLU
39	Cq	94	ASP
39	Cq	96	THR
39	Cq	97	GLU
39	Cq	105	ASN
39	Cq	108	PRO
39	Cq	130	LEU
39	Cq	133	GLU
39	Cq	134	LYS
39	Cq	137	PHE
39	Cq	141	LEU
39	Cq	149	ARG
39	Cq	155	LEU
39	Cq	162	LYS
39	Cq	183	PHE
39	Cq	185	PHE
39	Cq	191	GLN
39	Cq	206	ILE
39	Cq	212	HIS
39	Cq	231	TYR
39	Cq	234	VAL
39	Cq	239	HIS
39	Cq	255	THR

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Mol	Chain	Res	Type
39	Cq	264	LYS
40	CK	1	MET
40	CK	2	PRO
40	CK	14	TYR
40	CK	16	ARG
40	CK	21	GLU
40	CK	30	PRO
40	CK	40	LYS
40	CK	41	LYS
40	CK	44	ASP
40	CK	53	TRP
40	CK	56	LEU
40	CK	61	LYS
40	CK	90	ARG
40	CK	91	ASP
40	CK	92	ARG
40	CK	96	LYS
40	CK	99	LYS
40	CK	104	ILE
40	CK	108	GLU
40	CK	114	ARG
40	CK	116	MET
40	CK	117	ARG
40	CK	123	ARG
40	CK	130	LYS
41	CO	3	GLU
41	CO	5	GLN
41	CO	12	ARG
41	CO	18	ARG
41	CO	25	LYS
41	CO	49	ARG
41	CO	53	LYS
41	CO	61	ARG
41	CO	68	ARG
41	CO	78	ARG
41	CO	82	ARG
41	CO	93	LYS
41	CO	94	ARG
41	CO	96	GLN
41	CO	103	LYS
41	CO	106	ASP
41	CO	110	PRO

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Mol	Chain	Res	Type
41	CO	115	LYS
41	CO	117	ARG
41	CO	125	LYS
41	CO	128	ARG
41	CO	129	LEU
41	CO	133	ARG
41	CO	138	LEU
41	CO	148	LYS
41	CO	158	GLU
41	CO	159	LYS
41	CO	172	LYS
41	CO	173	GLN
41	CO	175	MET
41	CO	183	LYS
41	CO	187	LYS
41	CO	188	LYS
41	CO	189	ILE
41	CO	190	ASP
41	CO	191	LYS
41	CO	192	TYR
41	CO	197	LYS
41	CO	198	THR
41	CO	199	HIS
41	CO	201	LEU
42	CL	12	PRO
42	CL	19	GLN
42	CL	20	ARG
42	CL	21	ARG
42	CL	28	GLN
42	CL	31	ARG
42	CL	32	LYS
42	CL	33	ILE
42	CL	34	ARG
42	CL	44	ARG
42	CL	46	ILE
42	CL	49	ARG
42	CL	61	CYS
42	CL	69	LYS
42	CL	74	ARG
42	CL	79	GLU
42	CL	82	ARG
42	CL	88	LYS

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Mol	Chain	Res	Type
42	CL	92	ARG
42	CL	101	ARG
42	CL	103	ARG
42	CL	108	GLU
42	CL	116	ARG
42	CL	126	LEU
42	CL	127	PHE
42	CL	129	ARG
42	CL	135	LYS
42	CL	136	LYS
42	CL	149	GLN
42	CL	150	LEU
42	CL	155	MET
42	CL	158	ARG
42	CL	159	ASN
42	CL	160	VAL
42	CL	163	LYS
42	CL	164	GLU
42	CL	165	LYS
42	CL	173	GLU
42	CL	176	PHE
42	CL	190	ARG
42	CL	200	LYS
42	CL	201	GLU
42	CL	205	GLN
43	CV	10	SER
43	CV	16	ILE
43	CV	43	LYS
43	CV	48	ARG
43	CV	51	ARG
43	CV	52	LEU
43	CV	66	LYS
43	CV	67	LYS
43	CV	74	LYS
43	CV	75	LYS
43	CV	83	ARG
43	CV	85	ARG
43	CV	88	TYR
43	CV	91	LYS
43	CV	92	ASP
43	CV	94	VAL
43	CV	101	ASN

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Mol	Chain	Res	Type
43	CV	109	LYS
43	CV	113	LYS
43	CV	118	THR
44	CM	2	VAL
44	CM	7	VAL
44	CM	11	ARG
44	CM	12	VAL
44	CM	32	ASP
44	CM	34	ASN
44	CM	37	LEU
44	CM	42	CYS
44	CM	43	THR
44	CM	47	ARG
44	CM	48	GLN
44	CM	59	ASP
44	CM	60	PHE
44	CM	61	ILE
44	CM	62	LEU
44	CM	63	LYS
44	CM	65	PRO
44	CM	67	SER
44	CM	69	HIS
44	CM	74	ARG
44	CM	79	LYS
44	CM	85	LYS
44	CM	90	ARG
44	CM	99	GLU
44	CM	100	ARG
44	CM	104	MET
44	CM	107	PHE
44	CM	113	MET
44	CM	114	LYS
44	CM	116	LYS
44	CM	118	MET
44	CM	119	ARG
44	CM	124	LYS
45	Ca	4	ARG
45	Ca	7	LYS
45	Ca	10	LYS
45	Ca	12	ARG
45	Ca	14	HIS
45	Ca	27	LYS

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Mol	Chain	Res	Type
45	Ca	56	VAL
45	Ca	58	MET
45	Ca	59	LYS
45	Ca	63	LEU
45	Ca	64	LYS
45	Ca	65	ARG
45	Ca	77	LYS
45	Ca	85	GLN
45	Ca	92	LYS
45	Ca	93	ASN
45	Ca	94	LYS
45	Ca	117	LEU
45	Ca	119	LYS
45	Ca	129	PHE
46	CN	21	PHE
46	CN	24	ARG
46	CN	31	ARG
46	CN	32	GLN
46	CN	41	ARG
46	CN	44	ARG
46	CN	47	LYS
46	CN	49	ARG
46	CN	50	ARG
46	CN	54	LYS
46	CN	61	ILE
46	CN	64	ILE
46	CN	67	ARG
46	CN	68	ARG
46	CN	71	ARG
46	CN	72	LYS
46	CN	75	VAL
46	CN	77	LYS
46	CN	80	THR
46	CN	89	VAL
46	CN	91	GLN
46	CN	94	PHE
46	CN	108	ARG
46	CN	114	ARG
46	CN	128	LYS
46	CN	138	PHE
46	CN	139	HIS
46	CN	140	LYS

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Mol	Chain	Res	Type
46	CN	149	GLN
46	CN	161	MET
46	CN	162	ARG
46	CN	169	ARG
46	CN	170	LYS
46	CN	172	ARG
46	CN	176	LYS
46	CN	184	ILE
46	CN	188	ARG
46	CN	189	ARG
46	CN	194	ARG
46	CN	195	ARG
46	CN	197	THR
46	CN	198	LEU
46	CN	199	GLN
47	CI	7	ARG
47	CI	21	ARG
47	CI	24	ARG
47	CI	30	LYS
47	CI	39	LYS
47	CI	40	LYS
47	CI	48	LEU
47	CI	69	ARG
47	CI	74	LYS
47	CI	76	MET
47	CI	82	ARG
47	CI	88	ARG
47	CI	101	LYS
47	CI	102	MET
47	CI	103	LEU
47	CI	109	ASP
47	CI	112	GLN
47	CI	116	ARG
47	CI	146	GLU
47	CI	153	ARG
47	CI	154	ARG
47	CI	164	LYS
47	CI	169	LYS
47	CI	175	LYS
47	CI	184	MET
47	CI	187	LYS
47	CI	198	LYS

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Mol	Chain	Res	Type
47	CI	200	VAL
47	CI	202	SER
47	CI	212	LEU
47	CI	213	HIS
48	CD	22	ARG
48	CD	23	ARG
48	CD	35	ARG
48	CD	41	LYS
48	CD	50	ARG
48	CD	51	MET
48	CD	58	ARG
48	CD	63	GLN
48	CD	66	TYR
48	CD	93	THR
48	CD	107	ARG
48	CD	113	PHE
48	CD	124	GLU
48	CD	130	TYR
48	CD	152	ARG
48	CD	188	LYS
48	CD	193	GLU
48	CD	202	GLN
48	CD	223	PHE
48	CD	252	VAL
48	CD	254	GLU
48	CD	255	LYS
48	CD	256	LYS
48	CD	258	LYS
48	CD	259	LYS
48	CD	260	GLU
48	CD	262	LYS
48	CD	263	LYS
48	CD	265	ARG
48	CD	268	ARG
48	CD	270	LYS
48	CD	293	ARG
49	CQ	6	ARG
49	CQ	7	HIS
49	CQ	8	ASN
49	CQ	9	LYS
49	CQ	11	ARG
49	CQ	13	VAL

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Mol	Chain	Res	Type
49	CQ	14	ARG
49	CQ	15	ARG
49	CQ	16	LYS
49	CQ	17	GLU
49	CQ	19	LYS
49	CQ	20	SER
49	CQ	21	GLN
49	CQ	22	ASP
49	CQ	31	LEU
49	CQ	49	LYS
49	CQ	50	ARG
49	CQ	53	MET
49	CQ	69	LYS
49	CQ	71	LYS
49	CQ	78	LYS
49	CQ	91	ARG
49	CQ	93	GLN
49	CQ	94	GLU
49	CQ	97	LYS
49	CQ	98	LEU
49	CQ	104	ARG
49	CQ	108	ARG
49	CQ	112	ARG
49	CQ	115	ARG
49	CQ	125	GLN
49	CQ	140	SER
49	CQ	144	LYS
49	CQ	146	ARG
49	CQ	151	HIS
49	CQ	154	LYS
49	CQ	160	HIS
49	CQ	162	HIS
49	CQ	163	THR
49	CQ	164	LYS
49	CQ	170	LYS
49	CQ	172	ARG
49	CQ	173	LYS
49	CQ	178	ARG
49	CQ	180	ARG
49	CQ	181	ARG
49	CQ	187	LYS
50	CR	3	MET

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Mol	Chain	Res	Type
50	CR	4	LEU
50	CR	5	ARG
50	CR	6	LEU
50	CR	17	CYS
50	CR	20	LYS
50	CR	21	LYS
50	CR	24	LEU
50	CR	25	ASP
50	CR	29	THR
50	CR	32	ILE
50	CR	34	ASN
50	CR	39	GLN
50	CR	40	GLN
50	CR	46	LYS
50	CR	57	VAL
50	CR	60	ARG
50	CR	62	ARG
50	CR	63	CYS
50	CR	71	ARG
50	CR	74	ARG
50	CR	76	MET
50	CR	81	ARG
50	CR	92	LYS
50	CR	96	MET
50	CR	97	ARG
50	CR	98	ARG
50	CR	104	ARG
50	CR	106	LEU
50	CR	113	LYS
50	CR	116	ASP
50	CR	117	ARG
50	CR	119	MET
50	CR	128	LYS
50	CR	130	ASN
50	CR	133	LYS
50	CR	134	ASN
50	CR	138	LEU
50	CR	140	GLU
50	CR	141	HIS
50	CR	144	LYS
50	CR	145	LEU
50	CR	153	LYS

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Mol	Chain	Res	Type
50	CR	160	GLU
50	CR	162	ARG
50	CR	165	LYS
51	CA	21	LYS
51	CA	24	LYS
51	CA	30	ARG
51	CA	38	HIS
51	CA	64	ARG
51	CA	67	TYR
51	CA	92	LYS
51	CA	93	LYS
51	CA	95	GLN
51	CA	97	ASN
51	CA	104	VAL
51	CA	118	GLU
51	CA	123	ARG
51	CA	125	LYS
51	CA	143	THR
51	CA	144	LYS
51	CA	155	LYS
51	CA	156	LYS
51	CA	181	LYS
51	CA	188	LYS
51	CA	190	LYS
51	CA	192	LYS
51	CA	202	VAL
51	CA	205	ASN
51	CA	219	ILE
51	CA	221	LYS
51	CA	226	ARG
51	CA	227	ARG
51	CA	245	ARG
51	CA	247	ARG
51	CA	250	LYS
51	CA	255	LYS
51	CA	256	GLU
52	CS	7	LEU
52	CS	8	ARG
52	CS	9	GLU
52	CS	13	VAL
52	CS	16	CYS
52	CS	17	LEU

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Mol	Chain	Res	Type
52	CS	19	THR
52	CS	20	PRO
52	CS	23	HIS
52	CS	24	THR
52	CS	29	ARG
52	CS	36	ASN
52	CS	41	LYS
52	CS	43	ARG
52	CS	53	LYS
52	CS	54	MET
52	CS	55	LYS
52	CS	60	GLU
52	CS	66	GLN
52	CS	68	PHE
52	CS	69	GLU
52	CS	70	LYS
52	CS	74	ARG
52	CS	81	TRP
52	CS	83	ARG
52	CS	84	TYR
52	CS	87	ARG
52	CS	88	SER
52	CS	91	HIS
52	CS	94	TYR
52	CS	108	GLN
52	CS	111	ARG
52	CS	118	ARG
52	CS	120	ARG
52	CS	125	GLN
52	CS	127	MET
52	CS	128	LYS
52	CS	131	GLU
52	CS	136	LYS
52	CS	138	ARG
52	CS	139	ARG
52	CS	143	LYS
52	CS	149	LYS
52	CS	152	PHE
52	CS	154	LEU
52	CS	157	ARG
52	CS	158	VAL
52	CS	159	LEU

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Mol	Chain	Res	Type
52	CS	161	ARG
52	CS	162	GLN
52	CS	164	LYS
52	CS	166	ARG
52	CS	167	PHE
52	CS	170	LYS
52	CS	173	ASN
52	CS	175	PHE
52	CS	176	PHE
53	CT	2	THR
53	CT	4	THR
53	CT	5	LYS
53	CT	7	LYS
53	CT	17	ARG
53	CT	18	PRO
53	CT	21	LYS
53	CT	24	VAL
53	CT	30	TYR
53	CT	31	MET
53	CT	33	ILE
53	CT	36	LYS
53	CT	41	ASP
53	CT	45	MET
53	CT	52	MET
53	CT	60	LYS
53	CT	63	ARG
53	CT	65	TYR
53	CT	70	HIS
53	CT	78	LYS
53	CT	80	VAL
53	CT	84	ILE
53	CT	85	LEU
53	CT	88	ARG
53	CT	89	ILE
53	CT	107	LYS
53	CT	114	GLN
53	CT	116	LYS
53	CT	120	LYS
53	CT	122	LYS
53	CT	124	THR
53	CT	127	GLN
53	CT	128	LEU

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Mol	Chain	Res	Type
53	CT	129	LYS
53	CT	140	PHE
53	CT	142	ARG
53	CT	144	ASN
53	CT	146	LYS
53	CT	148	PRO
53	CT	149	GLU
53	CT	150	LEU
53	CT	152	GLU
53	CT	154	ILE
53	CT	156	TYR
53	CT	157	GLU
54	CP	4	TYR
54	CP	5	SER
54	CP	6	LEU
54	CP	7	ASP
54	CP	8	PRO
54	CP	10	ASN
54	CP	16	LYS
54	CP	18	ARG
54	CP	23	ARG
54	CP	26	PHE
54	CP	32	THR
54	CP	39	MET
54	CP	40	HIS
54	CP	42	ARG
54	CP	46	LYS
54	CP	49	LYS
54	CP	53	LEU
54	CP	64	ASN
54	CP	69	ARG
54	CP	76	TRP
54	CP	78	TRP
54	CP	86	LYS
54	CP	92	LEU
54	CP	94	MET
54	CP	95	LEU
54	CP	99	GLU
54	CP	103	GLU
54	CP	104	LEU
54	CP	105	LYS
54	CP	107	LEU

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Mol	Chain	Res	Type
54	CP	109	VAL
54	CP	114	ILE
54	CP	115	GLU
54	CP	118	GLN
54	CP	120	ASN
54	CP	126	ARG
54	CP	128	ARG
54	CP	140	MET
54	CP	145	HIS
54	CP	153	LYS
55	CU	35	ASP
55	CU	41	GLN
55	CU	46	ARG
55	CU	52	LYS
55	CU	56	LEU
55	CU	60	VAL
55	CU	65	ARG
55	CU	66	SER
55	CU	67	LYS
55	CU	69	LYS
55	CU	75	GLU
55	CU	76	VAL
55	CU	78	PHE
55	CU	80	LYS
55	CU	84	LYS
55	CU	89	LYS
55	CU	91	LEU
55	CU	93	LYS
55	CU	101	ARG
55	CU	107	LYS
55	CU	110	TYR
55	CU	113	ARG
55	CU	115	PHE
55	CU	125	GLU
56	CX	36	LYS
56	CX	39	LYS
56	CX	40	ILE
56	CX	41	ARG
56	CX	46	PHE
56	CX	48	ARG
56	CX	50	LYS
56	CX	55	ARG

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Mol	Chain	Res	Type
56	CX	57	GLN
56	CX	62	ARG
56	CX	63	LYS
56	CX	67	ARG
56	CX	68	ARG
56	CX	69	ASN
56	CX	76	ILE
56	CX	79	PHE
56	CX	89	LYS
56	CX	90	ILE
56	CX	91	GLU
56	CX	100	VAL
56	CX	110	LYS
56	CX	111	GLN
56	CX	114	LYS
56	CX	119	ILE
56	CX	123	LYS
56	CX	129	ARG
56	CX	139	ARG
56	CX	153	ILE
56	CX	155	ILE
56	CX	156	ILE
57	CY	2	LYS
57	CY	15	ARG
57	CY	24	HIS
57	CY	28	LYS
57	CY	36	LYS
57	CY	47	MET
57	CY	50	ARG
57	CY	52	ASP
57	CY	54	GLU
57	CY	56	GLN
57	CY	61	HIS
57	CY	62	TYR
57	CY	65	GLN
57	CY	66	GLN
57	CY	69	LYS
57	CY	72	GLN
57	CY	76	LYS
57	CY	83	GLU
57	CY	86	GLN
57	CY	109	LEU

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Mol	Chain	Res	Type
57	CY	110	LYS
57	CY	113	LYS
57	CY	116	LYS
57	CY	117	LYS
57	CY	130	LYS
57	CY	131	GLU
57	CY	132	LYS
58	CW	2	LYS
58	CW	3	VAL
58	CW	7	SER
58	CW	12	LYS
58	CW	13	ILE
58	CW	17	HIS
58	CW	19	ARG
58	CW	20	ARG
58	CW	23	ARG
58	CW	25	ASP
58	CW	27	LYS
58	CW	28	VAL
58	CW	30	GLN
58	CW	37	GLU
58	CW	43	LYS
58	CW	44	ARG
58	CW	57	ARG
58	CW	61	LYS
58	CW	65	GLU
58	CW	69	LYS
58	CW	73	ARG
58	CW	74	ARG
58	CW	77	LYS
58	CW	80	ARG
58	CW	83	THR
58	CW	91	MET
58	CW	96	GLN
58	CW	97	LYS
58	CW	99	GLU
58	CW	110	ARG
59	CZ	5	MET
59	CZ	6	LYS
59	CZ	17	ARG
59	CZ	21	ARG
59	CZ	28	ASN

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Mol	Chain	Res	Type
59	CZ	29	ILE
59	CZ	30	ASP
59	CZ	31	ASP
59	CZ	34	SER
59	CZ	36	ARG
59	CZ	38	TYR
59	CZ	42	LEU
59	CZ	47	ASP
59	CZ	48	ARG
59	CZ	54	THR
59	CZ	57	MET
59	CZ	64	LYS
59	CZ	79	HIS
59	CZ	81	MET
59	CZ	83	THR
59	CZ	93	LYS
59	CZ	99	ASP
59	CZ	102	ARG
59	CZ	108	ARG
59	CZ	109	LYS
59	CZ	118	PHE
59	CZ	123	LYS
59	CZ	126	LYS
59	CZ	127	ASN
59	CZ	128	LYS
59	CZ	133	LYS
59	CZ	135	ARG
59	CZ	136	PHE
60	Cr	11	ARG
60	Cr	18	ILE
60	Cr	20	ARG
60	Cr	23	GLN
60	Cr	28	GLU
60	Cr	33	LYS
60	Cr	35	ARG
60	Cr	43	LEU
60	Cr	44	ILE
60	Cr	45	HIS
60	Cr	47	LYS
60	Cr	48	THR
60	Cr	56	ASP
60	Cr	67	ARG

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Mol	Chain	Res	Type
60	Cr	71	ARG
60	Cr	72	LYS
60	Cr	77	TYR
60	Cr	79	ARG
60	Cr	82	ILE
60	Cr	84	LYS
60	Cr	87	ARG
60	Cr	99	LYS
60	Cr	101	LYS
60	Cr	106	LEU
60	Cr	107	ARG
60	Cr	108	MET
60	Cr	112	ARG
60	Cr	128	ARG
60	Cr	132	ARG
61	Ch	4	ILE
61	Ch	8	ASP
61	Ch	10	ARG
61	Ch	12	LYS
61	Ch	14	LYS
61	Ch	23	ASP
61	Ch	32	ARG
61	Ch	35	LYS
61	Ch	48	ARG
61	Ch	51	ARG
61	Ch	56	ARG
61	Ch	74	LYS
61	Ch	76	LYS
61	Ch	78	TYR
61	Ch	86	LYS
61	Ch	91	MET
61	Ch	92	ARG
61	Ch	94	ARG
61	Ch	97	LYS
61	Ch	98	HIS
61	Ch	103	LYS
61	Ch	106	LYS
61	Ch	109	ARG
61	Ch	114	TYR
61	Ch	118	LYS
61	Ch	121	VAL
61	Ch	122	LYS

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Mol	Chain	Res	Type
62	Cb	5	LYS
62	Cb	7	HIS
62	Cb	12	GLN
62	Cb	14	ARG
62	Cb	15	LYS
62	Cb	18	ARG
62	Cb	22	LYS
62	Cb	25	ARG
62	Cb	26	SER
62	Cb	28	ARG
62	Cb	33	LYS
62	Cb	38	LYS
62	Cb	39	PHE
62	Cb	41	ARG
62	Cb	47	LYS
62	Cb	48	LYS
62	Cb	51	LYS
62	Cb	52	LYS
62	Cb	54	LEU
62	Cb	55	LYS
62	Cb	56	LYS
62	Cb	57	MET
62	Cb	58	GLN
62	Cb	60	ASN
62	Cb	63	LYS
62	Cb	65	MET
62	Cb	73	LYS
63	CB	2	SER
63	CB	10	ARG
63	CB	20	LYS
63	CB	24	ARG
63	CB	25	HIS
63	CB	26	ARG
63	CB	28	LYS
63	CB	30	LYS
63	CB	32	PHE
63	CB	34	LYS
63	CB	36	ASP
63	CB	41	VAL
63	CB	50	LYS
63	CB	59	GLU
63	CB	76	VAL

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Mol	Chain	Res	Type
63	CB	77	THR
63	CB	99	LEU
63	CB	103	LYS
63	CB	104	THR
63	CB	112	ASP
63	CB	115	LYS
63	CB	120	LYS
63	CB	124	LYS
63	CB	127	LYS
63	CB	134	CYS
63	CB	136	LYS
63	CB	138	GLN
63	CB	139	ASP
63	CB	144	LYS
63	CB	145	GLN
63	CB	148	LYS
63	CB	150	PHE
63	CB	154	LYS
63	CB	155	LYS
63	CB	158	GLN
63	CB	160	ILE
63	CB	163	ILE
63	CB	167	GLN
63	CB	169	ARG
63	CB	174	ARG
63	CB	198	ARG
63	CB	199	GLU
63	CB	200	ARG
63	CB	204	GLN
63	CB	208	ASN
63	CB	224	LYS
63	CB	226	LYS
63	CB	229	LYS
63	CB	242	ARG
63	CB	243	LYS
63	CB	261	ARG
63	CB	264	PHE
63	CB	272	LYS
63	CB	282	LYS
63	CB	291	TYR
63	CB	293	ILE
63	CB	295	ASP

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Mol	Chain	Res	Type
63	CB	297	LYS
63	CB	299	ILE
63	CB	300	LYS
63	CB	304	SER
63	CB	306	ASP
63	CB	309	LEU
63	CB	311	ASP
63	CB	312	LYS
63	CB	322	HIS
63	CB	325	GLU
63	CB	329	ASP
63	CB	345	LEU
63	CB	349	LYS
63	CB	354	GLN
63	CB	356	LYS
63	CB	357	ARG
63	CB	358	ARG
63	CB	361	GLU
63	CB	362	LYS
63	CB	365	LEU
63	CB	366	LYS
63	CB	374	PHE
63	CB	378	ARG
63	CB	393	LYS
63	CB	394	LYS
63	CB	397	ILE
64	CF	21	LYS
64	CF	29	LYS
64	CF	47	ARG
64	CF	52	GLU
64	CF	66	ARG
64	CF	74	MET
64	CF	88	LYS
64	CF	94	ARG
64	CF	98	ILE
64	CF	107	LYS
64	CF	134	ARG
64	CF	135	ILE
64	CF	146	ASN
64	CF	157	ARG
64	CF	161	LYS
64	CF	170	THR

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Mol	Chain	Res	Type
64	CF	171	ASP
64	CF	181	LYS
64	CF	190	LEU
64	CF	199	LYS
64	CF	200	ARG
64	CF	212	LYS
64	CF	217	ARG
64	CF	220	MET
64	CF	221	LYS
64	CF	222	LYS
64	CF	224	THR
64	CF	243	LEU
65	Cc	10	SER
65	Cc	11	LEU
65	Cc	39	ARG
65	Cc	40	GLN
65	Cc	59	GLU
65	Cc	61	GLU
65	Cc	65	MET
65	Cc	68	LYS
65	Cc	80	GLU
65	Cc	87	LYS
65	Cc	90	ARG
65	Cc	91	VAL
66	Cd	12	LYS
66	Cd	17	ILE
66	Cd	18	ASN
66	Cd	23	ARG
66	Cd	39	LYS
66	Cd	41	ARG
66	Cd	44	ARG
66	Cd	48	GLU
66	Cd	55	LYS
66	Cd	57	MET
66	Cd	60	PRO
66	Cd	63	ARG
66	Cd	67	ARG
66	Cd	75	LYS
66	Cd	91	LYS
66	Cd	101	LYS
66	Cd	113	THR
66	Cd	114	PHE

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Mol	Chain	Res	Type
66	Cd	116	ASN
66	Cd	117	LEU
67	Ce	5	ARG
67	Ce	9	LYS
67	Ce	11	LYS
67	Ce	12	ILE
67	Ce	13	VAL
67	Ce	17	THR
67	Ce	19	LYS
67	Ce	21	ILE
67	Ce	22	ARG
67	Ce	27	ARG
67	Ce	28	TYR
67	Ce	30	LYS
67	Ce	33	ARG
67	Ce	36	ARG
67	Ce	37	LYS
67	Ce	39	ARG
67	Ce	42	ASP
67	Ce	64	LYS
67	Ce	65	LYS
67	Ce	69	MET
67	Ce	74	PHE
67	Ce	76	LYS
67	Ce	78	LEU
67	Ce	80	HIS
67	Ce	83	LYS
67	Ce	90	MET
67	Ce	106	LYS
67	Ce	108	ARG
67	Ce	109	LYS
67	Ce	128	ARG
67	Ce	129	LEU
67	Ce	130	ARG
68	Cf	4	ARG
68	Cf	5	LEU
68	Cf	15	LYS
68	Cf	16	ARG
68	Cf	18	LEU
68	Cf	19	ARG
68	Cf	22	ARG
68	Cf	23	GLU

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Mol	Chain	Res	Type
68	Cf	24	HIS
68	Cf	29	LYS
68	Cf	31	GLU
68	Cf	33	VAL
68	Cf	38	GLU
68	Cf	52	LYS
68	Cf	54	LYS
68	Cf	55	ASN
68	Cf	66	LYS
68	Cf	70	ILE
68	Cf	73	LYS
68	Cf	80	ASN
68	Cf	87	LYS
68	Cf	89	ARG
68	Cf	95	LYS
68	Cf	100	ARG
68	Cf	101	ILE
68	Cf	102	ARG
68	Cf	106	TYR
68	Cf	109	ARG
69	Cg	3	GLN
69	Cg	5	LEU
69	Cg	8	ARG
69	Cg	9	ARG
69	Cg	14	ASN
69	Cg	18	ASN
69	Cg	19	LYS
69	Cg	21	ARG
69	Cg	22	LEU
69	Cg	29	ARG
69	Cg	30	ILE
69	Cg	32	TYR
69	Cg	36	LYS
69	Cg	38	VAL
69	Cg	40	LYS
69	Cg	42	PRO
69	Cg	43	LYS
69	Cg	48	VAL
69	Cg	50	PRO
69	Cg	53	LEU
69	Cg	54	ARG
69	Cg	57	ARG

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Mol	Chain	Res	Type
69	Cg	59	VAL
69	Cg	60	ARG
69	Cg	65	MET
69	Cg	66	ARG
69	Cg	67	LEU
69	Cg	72	LYS
69	Cg	74	VAL
69	Cg	76	ARG
69	Cg	78	TYR
69	Cg	81	SER
69	Cg	83	CYS
69	Cg	85	LYS
69	Cg	88	ARG
69	Cg	97	ILE
69	Cg	108	LYS
70	Ci	3	LEU
70	Ci	4	ARG
70	Ci	6	PRO
70	Ci	7	MET
70	Ci	11	LEU
70	Ci	12	ASN
70	Ci	13	LYS
70	Ci	18	THR
70	Ci	21	VAL
70	Ci	22	SER
70	Ci	23	LYS
70	Ci	25	ARG
70	Ci	28	ARG
70	Ci	29	ARG
70	Ci	32	ARG
70	Ci	33	LEU
70	Ci	35	LYS
70	Ci	38	LYS
70	Ci	42	ASP
70	Ci	43	MET
70	Ci	45	ARG
70	Ci	60	LEU
70	Ci	62	LYS
70	Ci	65	LYS
70	Ci	71	LYS
70	Ci	74	LYS
70	Ci	75	LYS

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Mol	Chain	Res	Type
70	Ci	76	ARG
70	Ci	80	HIS
70	Ci	85	ARG
70	Ci	86	LYS
70	Ci	88	GLU
70	Ci	91	SER
70	Ci	98	ARG
70	Ci	99	LYS
71	Cj	25	LYS
71	Cj	36	LYS
71	Cj	42	LYS
71	Cj	46	LYS
71	Cj	52	LYS
71	Cj	54	LYS
71	Cj	55	ARG
71	Cj	57	ASN
71	Cj	64	MET
71	Cj	65	ARG
71	Cj	68	LYS
71	Cj	71	TYR
71	Cj	72	ARG
71	Cj	73	ARG
71	Cj	75	ARG
71	Cj	79	ARG
71	Cj	80	GLU
71	Cj	83	THR
71	Cj	87	LYS
71	Cj	88	ARG
71	Cj	91	VAL
72	Ck	4	LYS
72	Ck	6	GLU
72	Ck	7	GLU
72	Ck	9	LYS
72	Ck	16	ARG
72	Ck	24	LYS
72	Ck	27	LYS
72	Ck	29	LYS
72	Ck	31	ASN
72	Ck	37	ARG
72	Ck	48	THR
72	Ck	52	LYS
72	Ck	54	GLU

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Mol	Chain	Res	Type
72	Ck	55	LYS
72	Ck	57	LYS
72	Ck	67	LYS
72	Ck	69	LEU
73	Cl	5	LYS
73	Cl	8	ARG
73	Cl	11	ARG
73	Cl	12	PHE
73	Cl	16	LYS
73	Cl	17	GLN
73	Cl	25	GLN
73	Cl	28	ARG
73	Cl	29	MET
73	Cl	30	LYS
73	Cl	40	LYS
73	Cl	48	LYS
73	Cl	51	LEU
74	CC	5	ARG
74	CC	8	ILE
74	CC	9	SER
74	CC	13	GLU
74	CC	14	LYS
74	CC	16	GLU
74	CC	17	SER
74	CC	20	LYS
74	CC	22	VAL
74	CC	24	LEU
74	CC	27	VAL
74	CC	28	PHE
74	CC	29	LYS
74	CC	33	ARG
74	CC	39	PHE
74	CC	48	ASN
74	CC	56	GLU
74	CC	57	LEU
74	CC	60	HIS
74	CC	65	GLU
74	CC	86	ARG
74	CC	87	SER
74	CC	92	PHE
74	CC	100	ARG
74	CC	106	LYS

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Mol	Chain	Res	Type
74	CC	109	ARG
74	CC	110	ARG
74	CC	113	ARG
74	CC	116	ASN
74	CC	140	LYS
74	CC	143	ARG
74	CC	157	LYS
74	CC	162	LYS
74	CC	165	LYS
74	CC	166	GLU
74	CC	173	LYS
74	CC	175	LYS
74	CC	179	ASP
74	CC	184	TYR
74	CC	187	GLN
74	CC	193	LYS
74	CC	199	ARG
74	CC	201	ARG
74	CC	205	ARG
74	CC	213	GLU
74	CC	214	ASP
74	CC	217	ILE
74	CC	218	ILE
74	CC	222	ARG
74	CC	229	LEU
74	CC	230	LEU
74	CC	234	LYS
74	CC	235	LEU
74	CC	237	ILE
74	CC	248	ARG
74	CC	254	GLU
74	CC	258	ARG
74	CC	260	LEU
74	CC	261	ASP
74	CC	272	SER
74	CC	273	LEU
74	CC	274	LYS
74	CC	275	SER
74	CC	278	ASN
74	CC	279	LEU
74	CC	283	LYS
74	CC	286	ASN

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Mol	Chain	Res	Type
74	CC	289	LEU
74	CC	294	LYS
74	CC	300	ARG
74	CC	303	ARG
74	CC	307	LYS
74	CC	308	LYS
74	CC	311	ARG
74	CC	312	ARG
74	CC	313	VAL
74	CC	314	LEU
74	CC	320	LYS
74	CC	321	ASN
74	CC	323	ARG
74	CC	325	MET
74	CC	328	LEU
74	CC	333	LYS
74	CC	340	ILE
74	CC	341	LEU
74	CC	343	GLN
74	CC	345	ARG
74	CC	347	HIS
74	CC	350	ARG
74	CC	351	VAL
74	CC	353	LYS
74	CC	364	LYS
75	Cm	79	GLU
75	Cm	83	ARG
75	Cm	85	LEU
75	Cm	87	GLN
75	Cm	88	LYS
75	Cm	91	CYS
75	Cm	93	LYS
75	Cm	97	ARG
75	Cm	98	LYS
75	Cm	106	ARG
75	Cm	111	ARG
75	Cm	112	LYS
75	Cm	113	LYS
75	Cm	114	LYS
75	Cm	125	LYS
75	Cm	127	VAL
75	Cm	128	LYS

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Mol	Chain	Res	Type
76	Cn	5	TRP
76	Cn	6	ARG
76	Cn	7	LYS
76	Cn	8	LYS
76	Cn	9	ARG
76	Cn	10	MET
76	Cn	13	LEU
76	Cn	15	ARG
76	Cn	18	ARG
76	Cn	21	ARG
76	Cn	23	ARG
77	Cp	3	LYS
77	Cp	6	LYS
77	Cp	7	LYS
77	Cp	17	ARG
77	Cp	24	LYS
77	Cp	25	MET
77	Cp	27	LYS
77	Cp	28	LYS
77	Cp	30	GLU
77	Cp	42	CYS
77	Cp	46	LYS
77	Cp	48	LYS
77	Cp	49	ARG
77	Cp	50	ARG
77	Cp	54	ILE
77	Cp	62	LYS
77	Cp	75	SER
77	Cp	84	ARG
77	Cp	85	ARG
77	Cp	87	LYS
77	Cp	90	LYS
77	Cp	92	GLN
78	Co	6	LYS
78	Co	8	ARG
78	Co	13	LYS
78	Co	14	LYS
78	Co	24	THR
78	Co	27	LYS
78	Co	28	LYS
78	Co	40	ARG
78	Co	43	ARG

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Mol	Chain	Res	Type
78	Co	44	LYS
78	Co	45	GLN
78	Co	53	LYS
78	Co	55	ILE
78	Co	58	LYS
78	Co	59	LYS
78	Co	61	LYS
78	Co	64	LYS
78	Co	65	LYS
78	Co	66	ILE
78	Co	71	GLU
78	Co	73	VAL
78	Co	76	ASN
78	Co	78	ARG
78	Co	81	ARG
78	Co	82	MET
78	Co	83	LEU
78	Co	87	ARG
78	Co	89	LYS
78	Co	91	PHE
78	Co	93	LEU
78	Co	97	LYS
78	Co	99	ARG
78	Co	104	ILE
78	Co	105	GLN
79	CJ	9	GLU
79	CJ	16	ARG
79	CJ	19	LYS
79	CJ	32	ARG
79	CJ	38	LYS
79	CJ	88	LYS
79	CJ	95	ARG
79	CJ	96	LYS
79	CJ	97	ASN
79	CJ	109	ILE
79	CJ	111	GLU
79	CJ	113	ILE
79	CJ	131	TYR
79	CJ	146	ARG
79	CJ	169	LYS
80	CH	1	MET
80	CH	2	LYS

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Mol	Chain	Res	Type
80	CH	4	ILE
80	CH	12	ILE
80	CH	20	LEU
80	CH	23	ARG
80	CH	28	LYS
80	CH	37	ASP
80	CH	41	ILE
80	CH	50	LYS
80	CH	52	LYS
80	CH	53	LYS
80	CH	59	LYS
80	CH	89	ARG
80	CH	92	MET
80	CH	105	ILE
80	CH	107	GLU
80	CH	108	ASN
80	CH	121	LYS
80	CH	124	ARG
80	CH	150	ASP
80	CH	168	LYS
80	CH	173	ARG
80	CH	188	GLN
81	CE	27	VAL
81	CE	32	LEU
81	CE	35	LYS
81	CE	38	LYS
81	CE	42	PRO
81	CE	46	ARG
81	CE	51	VAL
81	CE	56	ARG
81	CE	57	TYR
81	CE	60	SER
81	CE	62	MET
81	CE	65	ARG
81	CE	66	LYS
81	CE	68	MET
81	CE	72	LYS
81	CE	74	SER
81	CE	80	VAL
81	CE	81	GLU
81	CE	82	LYS
81	CE	84	LYS

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Mol	Chain	Res	Type
81	CE	85	LYS
81	CE	87	LYS
81	CE	94	LYS
81	CE	99	ASP
81	CE	105	ARG
81	CE	108	LYS
81	CE	109	LEU
81	CE	111	LYS
81	CE	114	ARG
81	CE	115	TYR
81	CE	120	ASP
81	CE	121	VAL
81	CE	123	ARG
81	CE	126	LEU
81	CE	127	SER
81	CE	130	LYS
81	CE	133	PHE
81	CE	134	SER
81	CE	136	HIS
81	CE	138	ARG
81	CE	139	LYS
81	CE	144	ILE
81	CE	158	ARG
81	CE	163	VAL
81	CE	167	GLN
81	CE	183	ARG
81	CE	186	LEU
81	CE	192	LYS
81	CE	198	SER
81	CE	204	SER
81	CE	205	ASN
81	CE	207	LYS
81	CE	208	ILE
81	CE	210	LYS
81	CE	212	LEU
81	CE	213	THR
81	CE	218	LYS
81	CE	219	LYS
81	CE	220	LYS
81	CE	222	LEU
81	CE	223	ARG
81	CE	224	LYS

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Mol	Chain	Res	Type
81	CE	228	GLN
81	CE	229	GLU
81	CE	232	ILE
81	CE	235	THR
81	CE	239	LYS
81	CE	243	THR
81	CE	245	GLN
81	CE	247	LYS
81	CE	256	GLN
81	CE	260	LYS
81	CE	264	ILE
81	CE	274	VAL
81	CE	281	ILE
81	CE	282	TYR
81	CE	285	LYS
81	CE	286	LEU
81	CE	287	VAL
82	CG	22	GLN
82	CG	25	LYS
82	CG	31	LEU
82	CG	32	PHE
82	CG	33	GLU
82	CG	34	LYS
82	CG	38	ASN
82	CG	39	PHE
82	CG	41	ILE
82	CG	43	GLN
82	CG	44	ASP
82	CG	45	ILE
82	CG	48	LYS
82	CG	51	LEU
82	CG	56	LYS
82	CG	58	PRO
82	CG	62	ARG
82	CG	71	TYR
82	CG	73	ARG
82	CG	82	GLN
82	CG	83	PHE
82	CG	85	GLN
82	CG	88	ASP
82	CG	89	ARG
82	CG	91	THR

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Mol	Chain	Res	Type
82	CG	94	GLN
82	CG	97	LYS
82	CG	98	LEU
82	CG	101	LYS
82	CG	105	GLU
82	CG	106	THR
82	CG	107	LYS
82	CG	110	LYS
82	CG	113	ARG
82	CG	117	ARG
82	CG	120	LYS
82	CG	121	LYS
82	CG	125	LYS
82	CG	133	PRO
82	CG	148	GLU
82	CG	154	LEU
82	CG	156	VAL
82	CG	166	LEU
82	CG	173	LEU
82	CG	175	ARG
82	CG	176	LYS
82	CG	179	VAL
82	CG	183	ILE
82	CG	184	ILE
82	CG	185	LYS
82	CG	187	LYS
82	CG	189	ARG
82	CG	190	LEU
82	CG	192	ARG
82	CG	197	LYS
82	CG	200	THR
82	CG	205	THR
82	CG	217	LYS
82	CG	230	TYR
82	CG	234	ARG
82	CG	236	HIS
82	CG	240	ASN
82	CG	254	GLU
82	CG	255	LYS
82	CG	259	LYS
82	CG	264	LYS
82	CG	265	LEU

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Mol	Chain	Res	Type
84	Cu	49	LYS
84	Cv	2	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (322) such sidechains are listed below:

Mol	Chain	Res	Type
1	Az	3	ASN
1	Az	21	ASN
1	Az	27	HIS
1	Az	64	GLN
1	Az	158	ASN
1	Az	168	GLN
1	Az	176	GLN
1	Az	448	GLN
1	Az	477	GLN
1	Az	490	HIS
1	Az	493	ASN
1	Az	705	HIS
1	Az	710	HIS
1	Az	715	HIS
1	Az	737	GLN
1	Az	803	ASN
1	Az	827	ASN
2	Ag	20	GLN
2	Ag	64	HIS
2	Ag	76	GLN
2	Ag	119	GLN
2	Ag	143	GLN
2	Ag	162	ASN
2	Ag	196	ASN
2	Ag	226	HIS
2	Ag	237	ASN
3	AU	47	ASN
4	AK	28	HIS
4	AK	39	ASN
4	AK	50	GLN
5	AO	20	GLN
6	AX	46	HIS
7	AM	19	GLN
7	AM	28	HIS
7	AM	75	ASN
7	AM	82	ASN

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Mol	Chain	Res	Type
8	AS	11	HIS
8	AS	42	HIS
8	AS	87	GLN
9	Ad	26	ASN
9	Ad	28	HIS
10	AN	5	HIS
10	AN	62	GLN
10	AN	105	ASN
10	AN	123	HIS
11	AL	18	GLN
11	AL	19	ASN
11	AL	121	GLN
11	AL	156	GLN
12	AR	74	GLN
12	AR	121	GLN
13	AP	41	GLN
13	AP	53	GLN
13	AP	79	HIS
13	AP	103	ASN
13	AP	114	HIS
13	AP	128	HIS
14	AT	11	GLN
14	AT	12	GLN
14	AT	42	HIS
14	AT	63	HIS
14	AT	83	GLN
14	AT	85	ASN
14	AT	126	GLN
14	AT	128	GLN
15	AB	53	GLN
15	AB	75	GLN
15	AB	101	HIS
15	AB	147	ASN
15	AB	148	ASN
15	AB	179	ASN
15	AB	202	GLN
15	AB	232	HIS
16	AA	50	ASN
16	AA	110	ASN
16	AA	141	ASN
17	AV	47	ASN
18	AY	29	HIS

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Mol	Chain	Res	Type
19	AZ	103	HIS
21	Ab	49	HIS
21	Ab	83	GLN
21	Ab	84	HIS
23	AD	74	GLN
23	AD	174	HIS
23	AD	179	GLN
23	AD	226	GLN
25	Af	151	ASN
26	AJ	124	HIS
26	AJ	125	HIS
27	AE	8	HIS
27	AE	17	HIS
27	AE	50	ASN
27	AE	98	ASN
27	AE	142	HIS
27	AE	188	ASN
27	AE	209	HIS
28	AC	115	GLN
28	AC	172	ASN
29	AG	56	ASN
29	AG	81	HIS
29	AG	177	GLN
29	AG	187	HIS
30	AF	29	GLN
30	AF	65	GLN
30	AF	83	ASN
30	AF	137	GLN
30	AF	186	ASN
31	AH	12	ASN
31	AH	73	GLN
31	AH	163	GLN
31	AH	168	HIS
32	AW	5	ASN
32	AW	15	ASN
32	AW	44	HIS
32	AW	64	ASN
32	AW	98	GLN
33	AI	9	HIS
33	AI	22	HIS
33	AI	84	ASN
33	AI	99	ASN

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Mol	Chain	Res	Type
33	AI	165	GLN
34	AQ	80	GLN
35	Ah	298	ASN
38	Cz	21	ASN
38	Cz	44	GLN
38	Cz	72	GLN
38	Cz	96	ASN
38	Cz	119	GLN
38	Cz	143	ASN
38	Cz	188	ASN
39	Cq	39	GLN
39	Cq	126	GLN
39	Cq	139	GLN
39	Cq	212	HIS
41	CO	26	GLN
41	CO	50	ASN
41	CO	72	HIS
41	CO	199	HIS
42	CL	15	HIS
42	CL	19	GLN
42	CL	67	HIS
42	CL	87	HIS
42	CL	104	ASN
42	CL	115	GLN
42	CL	149	GLN
43	CV	36	ASN
43	CV	84	GLN
45	Ca	14	HIS
45	Ca	17	HIS
45	Ca	85	GLN
45	Ca	93	ASN
46	CN	8	GLN
46	CN	15	GLN
46	CN	29	GLN
46	CN	87	HIS
46	CN	90	ASN
46	CN	109	HIS
46	CN	139	HIS
46	CN	149	GLN
46	CN	156	HIS
46	CN	199	GLN
47	CI	51	HIS

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Mol	Chain	Res	Type
47	CI	73	ASN
47	CI	86	HIS
47	CI	92	HIS
47	CI	112	GLN
47	CI	123	GLN
47	CI	130	HIS
47	CI	133	GLN
47	CI	147	HIS
47	CI	163	GLN
47	CI	203	HIS
47	CI	213	HIS
48	CD	63	GLN
48	CD	81	HIS
48	CD	122	GLN
48	CD	138	GLN
48	CD	195	HIS
48	CD	244	HIS
49	CQ	8	ASN
49	CQ	21	GLN
49	CQ	45	GLN
49	CQ	93	GLN
49	CQ	188	ASN
50	CR	39	GLN
50	CR	40	GLN
50	CR	121	HIS
50	CR	130	ASN
50	CR	158	GLN
51	CA	8	GLN
51	CA	50	HIS
51	CA	97	ASN
51	CA	209	HIS
52	CS	23	HIS
52	CS	36	ASN
52	CS	92	ASN
52	CS	108	GLN
52	CS	117	HIS
52	CS	125	GLN
52	CS	144	GLN
52	CS	173	ASN
53	CT	22	HIS
53	CT	54	HIS
53	CT	70	HIS

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Mol	Chain	Res	Type
53	CT	112	ASN
53	CT	127	GLN
53	CT	131	GLN
53	CT	144	ASN
54	CP	10	ASN
54	CP	93	HIS
54	CP	97	ASN
54	CP	118	GLN
54	CP	137	ASN
54	CP	145	HIS
55	CU	27	HIS
55	CU	50	ASN
56	CX	107	HIS
57	CY	56	GLN
57	CY	61	HIS
57	CY	66	GLN
57	CY	72	GLN
57	CY	100	HIS
58	CW	17	HIS
59	CZ	76	ASN
59	CZ	127	ASN
60	Cr	6	GLN
60	Cr	31	ASN
60	Cr	70	GLN
61	Ch	65	GLN
62	Cb	6	ASN
62	Cb	7	HIS
62	Cb	10	HIS
62	Cb	42	ASN
63	CB	42	HIS
63	CB	55	HIS
63	CB	68	ASN
63	CB	109	HIS
63	CB	175	GLN
63	CB	203	GLN
63	CB	204	GLN
63	CB	245	HIS
63	CB	258	HIS
63	CB	376	HIS
64	CF	24	ASN
64	CF	39	GLN
64	CF	58	HIS

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Mol	Chain	Res	Type
64	CF	63	GLN
64	CF	99	ASN
64	CF	126	ASN
64	CF	192	HIS
64	CF	239	GLN
64	CF	248	ASN
65	Cc	19	GLN
65	Cc	33	GLN
65	Cc	78	ASN
66	Cd	18	ASN
66	Cd	79	ASN
66	Cd	93	ASN
66	Cd	100	ASN
66	Cd	116	ASN
66	Cd	118	GLN
67	Ce	24	GLN
67	Ce	43	ASN
67	Ce	68	HIS
67	Ce	101	HIS
68	Cf	20	ASN
68	Cf	91	ASN
69	Cg	112	GLN
70	Ci	15	HIS
70	Ci	26	HIS
70	Ci	80	HIS
71	Cj	57	ASN
71	Cj	66	HIS
72	Ck	31	ASN
73	Cl	4	HIS
73	Cl	43	HIS
74	CC	50	GLN
74	CC	61	GLN
74	CC	142	HIS
74	CC	187	GLN
74	CC	223	ASN
74	CC	278	ASN
74	CC	317	ASN
74	CC	321	ASN
74	CC	329	ASN
74	CC	346	ASN
75	Cm	87	GLN
75	Cm	90	ASN

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Mol	Chain	Res	Type
75	Cm	109	ASN
75	Cm	117	HIS
77	Cp	33	GLN
77	Cp	72	ASN
77	Cp	92	GLN
78	Co	36	GLN
78	Co	105	GLN
79	CJ	98	ASN
80	CH	42	ASN
80	CH	76	HIS
80	CH	98	HIS
81	CE	47	ASN
81	CE	136	HIS
81	CE	182	ASN
81	CE	205	ASN
81	CE	228	GLN
81	CE	250	GLN
81	CE	256	GLN
81	CE	266	GLN
81	CE	279	ASN
82	CG	22	GLN
82	CG	43	GLN
82	CG	46	GLN
82	CG	64	GLN
82	CG	85	GLN
82	CG	100	HIS
82	CG	159	HIS
82	CG	208	ASN
82	CG	227	ASN
82	CG	236	HIS
82	CG	240	ASN
83	Cs	17	HIS
83	Ct	17	HIS
84	Cv	15	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
36	B2	1756/1869 (93%)	504 (28%)	128 (7%)
37	BC	74/75 (98%)	14 (18%)	3 (4%)
85	A5	3750/5070 (73%)	1047 (27%)	337 (8%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
86	A7	120/121 (99%)	24 (20%)	2 (1%)
87	A8	156/157 (99%)	38 (24%)	12 (7%)
All	All	5856/7292 (80%)	1627 (27%)	482 (8%)

All (1627) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
36	B2	2	A
36	B2	3	C
36	B2	4	C
36	B2	8	U
36	B2	16	G
36	B2	25	A
36	B2	26	U
36	B2	32	U
36	B2	33	G
36	B2	41	G
36	B2	44	U
36	B2	45	A
36	B2	46	A
36	B2	50	A
36	B2	56	G
36	B2	59	U
36	B2	66	G
36	B2	67	C
36	B2	68	A
36	B2	70	G
36	B2	72	C
36	B2	73	C
36	B2	74	G
36	B2	75	G
36	B2	76	U
36	B2	77	A
36	B2	78	C
36	B2	79	A
36	B2	80	G
36	B2	99	A
36	B2	102	A
36	B2	103	A
36	B2	113	G
36	B2	126	G
36	B2	140	C

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Mol	Chain	Res	Type
36	B2	141	A
36	B2	142	C
36	B2	143	U
36	B2	147	A
36	B2	148	U
36	B2	155	G
36	B2	160	U
36	B2	161	U
36	B2	162	C
36	B2	170	A
36	B2	176	U
36	B2	182	C
36	B2	183	G
36	B2	184	G
36	B2	188	C
36	B2	189	U
36	B2	190	G
36	B2	191	A
36	B2	192	C
36	B2	206	G
36	B2	208	G
36	B2	209	A
36	B2	215	G
36	B2	216	C
36	B2	226	A
36	B2	227	U
36	B2	228	C
36	B2	229	A
36	B2	232	A
36	B2	233	C
36	B2	235	A
36	B2	236	A
36	B2	237	C
36	B2	238	C
36	B2	241	G
36	B2	282	G
36	B2	284	C
36	B2	285	U
36	B2	286	U
36	B2	287	U
36	B2	288	G
36	B2	295	C

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Mol	Chain	Res	Type
36	B2	296	U
36	B2	307	G
36	B2	308	G
36	B2	309	G
36	B2	312	G
36	B2	313	A
36	B2	316	G
36	B2	318	A
36	B2	319	C
36	B2	321	C
36	B2	323	C
36	B2	324	C
36	B2	325	C
36	B2	326	C
36	B2	327	G
36	B2	328	U
36	B2	330	G
36	B2	332	G
36	B2	336	A
36	B2	342	C
36	B2	347	G
36	B2	349	A
36	B2	356	C
36	B2	362	C
36	B2	364	A
36	B2	367	U
36	B2	369	C
36	B2	385	G
36	B2	386	C
36	B2	389	A
36	B2	392	A
36	B2	400	C
36	B2	407	G
36	B2	408	A
36	B2	409	C
36	B2	426	A
36	B2	448	A
36	B2	450	C
36	B2	452	G
36	B2	459	C
36	B2	464	A
36	B2	466	G

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Mol	Chain	Res	Type
36	B2	470	G
36	B2	471	G
36	B2	472	C
36	B2	473	A
36	B2	474	G
36	B2	476	A
36	B2	482	G
36	B2	487	U
36	B2	492	C
36	B2	494	C
36	B2	496	C
36	B2	525	A
36	B2	531	A
36	B2	532	C
36	B2	533	A
36	B2	535	G
36	B2	547	G
36	B2	549	C
36	B2	551	U
36	B2	552	G
36	B2	553	U
36	B2	556	U
36	B2	557	U
36	B2	559	G
36	B2	560	A
36	B2	564	A
36	B2	565	G
36	B2	576	A
36	B2	584	A
36	B2	586	G
36	B2	588	G
36	B2	590	A
36	B2	591	U
36	B2	592	C
36	B2	593	C
36	B2	596	U
36	B2	600	G
36	B2	605	A
36	B2	606	G
36	B2	607	U
36	B2	608	C
36	B2	610	G

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Mol	Chain	Res	Type
36	B2	614	C
36	B2	619	A
36	B2	620	G
36	B2	628	A
36	B2	629	A
36	B2	634	A
36	B2	641	A
36	B2	642	U
36	B2	643	A
36	B2	644	G
36	B2	655	A
36	B2	656	G
36	B2	663	C
36	B2	668	A
36	B2	669	A
36	B2	670	A
36	B2	671	A
36	B2	672	A
36	B2	679	A
36	B2	688	U
36	B2	689	U
36	B2	691	G
36	B2	693	A
36	B2	694	G
36	B2	695	C
36	B2	696	G
36	B2	697	G
36	B2	699	C
36	B2	701	G
36	B2	731	G
36	B2	732	U
36	B2	733	C
36	B2	734	C
36	B2	735	C
36	B2	738	C
36	B2	739	C
36	B2	740	C
36	B2	741	C
36	B2	742	U
36	B2	743	U
36	B2	744	G
36	B2	746	C

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Mol	Chain	Res	Type
36	B2	747	U
36	B2	748	C
36	B2	749	U
36	B2	751	G
36	B2	752	G
36	B2	753	C
36	B2	754	G
36	B2	755	C
36	B2	788	G
36	B2	791	C
36	B2	797	C
36	B2	798	G
36	B2	799	U
36	B2	810	A
36	B2	811	A
36	B2	812	A
36	B2	818	A
36	B2	821	G
36	B2	822	U
36	B2	830	A
36	B2	831	G
36	B2	834	C
36	B2	835	C
36	B2	836	G
36	B2	837	A
36	B2	838	G
36	B2	839	C
36	B2	840	C
36	B2	842	C
36	B2	843	C
36	B2	845	G
36	B2	847	A
36	B2	853	C
36	B2	864	A
36	B2	868	G
36	B2	869	A
36	B2	870	A
36	B2	871	U
36	B2	873	G
36	B2	874	G
36	B2	875	A
36	B2	876	C

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Mol	Chain	Res	Type
36	B2	877	C
36	B2	878	G
36	B2	881	G
36	B2	886	A
36	B2	887	U
36	B2	888	U
36	B2	889	U
36	B2	890	U
36	B2	894	G
36	B2	895	G
36	B2	897	U
36	B2	903	A
36	B2	904	A
36	B2	911	C
36	B2	913	A
36	B2	914	U
36	B2	920	A
36	B2	921	G
36	B2	933	G
36	B2	951	C
36	B2	955	A
36	B2	966	U
36	B2	969	U
36	B2	970	G
36	B2	971	G
36	B2	976	G
36	B2	978	G
36	B2	990	A
36	B2	992	A
36	B2	999	G
36	B2	1001	A
36	B2	1008	A
36	B2	1017	U
36	B2	1023	A
36	B2	1025	U
36	B2	1031	A
36	B2	1039	C
36	B2	1045	U
36	B2	1049	A
36	B2	1050	A
36	B2	1051	G
36	B2	1052	A

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Mol	Chain	Res	Type
36	B2	1054	G
36	B2	1060	A
36	B2	1061	U
36	B2	1062	A
36	B2	1072	U
36	B2	1073	U
36	B2	1077	A
36	B2	1078	C
36	B2	1083	A
36	B2	1096	G
36	B2	1097	G
36	B2	1109	C
36	B2	1110	G
36	B2	1111	U
36	B2	1115	U
36	B2	1116	C
36	B2	1117	C
36	B2	1118	C
36	B2	1120	U
36	B2	1123	C
36	B2	1131	G
36	B2	1136	U
36	B2	1138	C
36	B2	1140	G
36	B2	1141	G
36	B2	1143	A
36	B2	1148	A
36	B2	1149	A
36	B2	1150	A
36	B2	1153	C
36	B2	1154	U
36	B2	1155	U
36	B2	1157	G
36	B2	1158	G
36	B2	1161	U
36	B2	1166	G
36	B2	1168	G
36	B2	1203	G
36	B2	1206	G
36	B2	1208	A
36	B2	1209	A
36	B2	1212	G

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Mol	Chain	Res	Type
36	B2	1214	A
36	B2	1215	C
36	B2	1216	C
36	B2	1217	A
36	B2	1221	G
36	B2	1224	G
36	B2	1236	G
36	B2	1237	C
36	B2	1242	U
36	B2	1245	G
36	B2	1251	A
36	B2	1253	A
36	B2	1254	C
36	B2	1256	G
36	B2	1257	G
36	B2	1259	A
36	B2	1260	A
36	B2	1263	U
36	B2	1264	C
36	B2	1274	G
36	B2	1275	G
36	B2	1276	A
36	B2	1278	A
36	B2	1283	C
36	B2	1284	A
36	B2	1285	G
36	B2	1300	U
36	B2	1301	A
36	B2	1303	C
36	B2	1307	U
36	B2	1308	U
36	B2	1314	U
36	B2	1315	U
36	B2	1316	C
36	B2	1317	C
36	B2	1324	G
36	B2	1329	U
36	B2	1342	U
36	B2	1343	U
36	B2	1348	G
36	B2	1358	U
36	B2	1371	U

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Mol	Chain	Res	Type
36	B2	1372	U
36	B2	1373	C
36	B2	1378	A
36	B2	1394	G
36	B2	1395	C
36	B2	1396	A
36	B2	1397	U
36	B2	1398	G
36	B2	1401	A
36	B2	1402	A
36	B2	1404	U
36	B2	1406	G
36	B2	1407	U
36	B2	1409	A
36	B2	1410	C
36	B2	1412	C
36	B2	1417	C
36	B2	1418	C
36	B2	1419	C
36	B2	1426	U
36	B2	1430	C
36	B2	1435	C
36	B2	1437	C
36	B2	1449	G
36	B2	1452	A
36	B2	1454	A
36	B2	1456	G
36	B2	1459	G
36	B2	1462	U
36	B2	1465	A
36	B2	1474	A
36	B2	1475	G
36	B2	1476	A
36	B2	1477	U
36	B2	1478	U
36	B2	1489	A
36	B2	1490	G
36	B2	1493	C
36	B2	1494	U
36	B2	1495	G
36	B2	1508	A
36	B2	1516	G

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Mol	Chain	Res	Type
36	B2	1519	U
36	B2	1520	G
36	B2	1521	C
36	B2	1524	G
36	B2	1533	A
36	B2	1535	U
36	B2	1537	A
36	B2	1540	G
36	B2	1544	C
36	B2	1545	A
36	B2	1550	G
36	B2	1551	U
36	B2	1552	G
36	B2	1553	C
36	B2	1554	C
36	B2	1556	A
36	B2	1557	C
36	B2	1558	C
36	B2	1563	G
36	B2	1564	C
36	B2	1570	G
36	B2	1578	U
36	B2	1580	A
36	B2	1582	C
36	B2	1585	U
36	B2	1587	G
36	B2	1588	A
36	B2	1598	G
36	B2	1599	U
36	B2	1600	G
36	B2	1602	U
36	B2	1604	G
36	B2	1621	U
36	B2	1622	U
36	B2	1623	A
36	B2	1632	G
36	B2	1633	A
36	B2	1637	A
36	B2	1638	G
36	B2	1639	G
36	B2	1648	G
36	B2	1654	G

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Mol	Chain	Res	Type
36	B2	1657	G
36	B2	1665	G
36	B2	1680	G
36	B2	1688	C
36	B2	1695	A
36	B2	1699	A
36	B2	1701	C
36	B2	1702	G
36	B2	1721	U
36	B2	1722	G
36	B2	1727	G
36	B2	1729	U
36	B2	1745	A
36	B2	1746	U
36	B2	1748	G
36	B2	1752	C
36	B2	1757	G
36	B2	1761	U
36	B2	1780	G
36	B2	1781	A
36	B2	1782	G
36	B2	1783	C
36	B2	1784	G
36	B2	1785	C
36	B2	1786	U
36	B2	1796	G
36	B2	1798	C
36	B2	1805	G
36	B2	1824	A
36	B2	1825	A
36	B2	1826	G
36	B2	1828	C
36	B2	1829	G
36	B2	1831	A
36	B2	1832	A
36	B2	1835	A
36	B2	1838	U
36	B2	1839	U
36	B2	1849	G
36	B2	1851	A
36	B2	1852	C
36	B2	1858	G

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Mol	Chain	Res	Type
36	B2	1861	G
36	B2	1862	G
36	B2	1863	A
36	B2	1864	U
36	B2	1865	C
36	B2	1867	U
36	B2	1869	A
37	BC	8	U
37	BC	9	G
37	BC	13	C
37	BC	16	C
37	BC	18	G
37	BC	20	A
37	BC	21	G
37	BC	36	A
37	BC	46	U
37	BC	47	C
37	BC	48	G
37	BC	57	A
37	BC	58	A
37	BC	75	A
85	A5	2	G
85	A5	12	A
85	A5	13	U
85	A5	15	A
85	A5	19	G
85	A5	25	A
85	A5	39	A
85	A5	42	A
85	A5	48	G
85	A5	49	U
85	A5	58	G
85	A5	59	A
85	A5	64	A
85	A5	65	A
85	A5	73	A
85	A5	75	G
85	A5	82	U
85	A5	91	G
85	A5	95	G
85	A5	98	A
85	A5	108	A

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Mol	Chain	Res	Type
85	A5	109	G
85	A5	112	C
85	A5	115	C
85	A5	116	G
85	A5	120	A
85	A5	126	C
85	A5	133	C
85	A5	136	C
85	A5	142	G
85	A5	143	C
85	A5	144	G
85	A5	149	A
85	A5	157	U
85	A5	159	C
85	A5	160	G
85	A5	164	G
85	A5	170	C
85	A5	172	C
85	A5	174	C
85	A5	178	C
85	A5	184	U
85	A5	185	C
85	A5	187	U
85	A5	188	G
85	A5	189	G
85	A5	190	G
85	A5	191	G
85	A5	200	U
85	A5	201	C
85	A5	202	C
85	A5	207	G
85	A5	210	C
85	A5	216	C
85	A5	217	C
85	A5	219	G
85	A5	220	C
85	A5	221	C
85	A5	224	U
85	A5	225	G
85	A5	226	G
85	A5	228	C
85	A5	232	G

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Mol	Chain	Res	Type
85	A5	233	U
85	A5	238	C
85	A5	245	C
85	A5	246	G
85	A5	251	C
85	A5	265	C
85	A5	266	C
85	A5	276	C
85	A5	277	G
85	A5	280	G
85	A5	281	U
85	A5	286	U
85	A5	293	G
85	A5	294	G
85	A5	297	U
85	A5	305	A
85	A5	306	A
85	A5	310	G
85	A5	316	U
85	A5	318	A
85	A5	334	A
85	A5	340	C
85	A5	349	A
85	A5	350	C
85	A5	357	U
85	A5	360	A
85	A5	361	C
85	A5	362	A
85	A5	381	U
85	A5	386	A
85	A5	387	G
85	A5	398	A
85	A5	405	U
85	A5	406	C
85	A5	407	A
85	A5	408	A
85	A5	409	G
85	A5	410	A
85	A5	412	G
85	A5	413	G
85	A5	414	C
85	A5	418	A

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Mol	Chain	Res	Type
85	A5	431	G
85	A5	432	U
85	A5	433	A
85	A5	435	A
85	A5	436	C
85	A5	445	U
85	A5	446	C
85	A5	449	C
85	A5	451	C
85	A5	452	A
85	A5	453	G
85	A5	454	U
85	A5	455	C
85	A5	460	C
85	A5	464	G
85	A5	465	G
85	A5	466	A
85	A5	468	U
85	A5	469	C
85	A5	470	A
85	A5	480	C
85	A5	485	C
85	A5	486	C
85	A5	487	G
85	A5	489	C
85	A5	490	C
85	A5	497	G
85	A5	498	C
85	A5	500	G
85	A5	502	C
85	A5	503	C
85	A5	504	G
85	A5	505	G
85	A5	506	C
85	A5	509	A
85	A5	510	U
85	A5	513	U
85	A5	514	U
85	A5	639	U
85	A5	640	C
85	A5	641	G
85	A5	649	A

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Mol	Chain	Res	Type
85	A5	650	C
85	A5	656	C
85	A5	662	C
85	A5	664	G
85	A5	665	C
85	A5	666	G
85	A5	667	A
85	A5	668	C
85	A5	669	C
85	A5	670	G
85	A5	681	G
85	A5	683	C
85	A5	685	C
85	A5	686	A
85	A5	687	U
85	A5	688	U
85	A5	690	C
85	A5	694	C
85	A5	696	C
85	A5	697	G
85	A5	704	C
85	A5	705	G
85	A5	712	C
85	A5	717	U
85	A5	720	G
85	A5	725	G
85	A5	726	G
85	A5	728	U
85	A5	729	G
85	A5	730	G
85	A5	732	A
85	A5	737	C
85	A5	741	C
85	A5	746	A
85	A5	747	A
85	A5	748	G
85	A5	749	G
85	A5	912	G
85	A5	918	G
85	A5	923	C
85	A5	927	G
85	A5	928	C

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Mol	Chain	Res	Type
85	A5	929	A
85	A5	931	C
85	A5	932	A
85	A5	933	G
85	A5	934	C
85	A5	935	A
85	A5	936	C
85	A5	937	U
85	A5	938	C
85	A5	939	G
85	A5	943	A
85	A5	944	A
85	A5	945	U
85	A5	946	C
85	A5	947	C
85	A5	949	G
85	A5	951	G
85	A5	952	G
85	A5	956	A
85	A5	957	G
85	A5	958	G
85	A5	959	G
85	A5	960	A
85	A5	961	G
85	A5	962	C
85	A5	963	G
85	A5	964	A
85	A5	965	G
85	A5	966	A
85	A5	967	C
85	A5	968	C
85	A5	969	C
85	A5	970	G
85	A5	971	U
85	A5	972	C
85	A5	975	C
85	A5	982	U
85	A5	983	C
85	A5	1052	G
85	A5	1072	C
85	A5	1073	G
85	A5	1076	C

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Mol	Chain	Res	Type
85	A5	1080	C
85	A5	1087	A
85	A5	1098	G
85	A5	1101	C
85	A5	1102	U
85	A5	1103	C
85	A5	1164	G
85	A5	1166	G
85	A5	1167	C
85	A5	1168	G
85	A5	1198	G
85	A5	1199	G
85	A5	1210	C
85	A5	1211	G
85	A5	1212	G
85	A5	1214	C
85	A5	1215	C
85	A5	1216	C
85	A5	1218	G
85	A5	1219	G
85	A5	1222	A
85	A5	1233	G
85	A5	1238	A
85	A5	1239	C
85	A5	1240	G
85	A5	1242	G
85	A5	1243	C
85	A5	1244	G
85	A5	1245	C
85	A5	1246	G
85	A5	1255	A
85	A5	1266	G
85	A5	1267	C
85	A5	1268	G
85	A5	1269	G
85	A5	1270	A
85	A5	1271	G
85	A5	1272	C
85	A5	1273	G
85	A5	1274	A
85	A5	1275	G
85	A5	1276	C

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Mol	Chain	Res	Type
85	A5	1277	G
85	A5	1279	A
85	A5	1281	G
85	A5	1282	G
85	A5	1283	G
85	A5	1285	U
85	A5	1286	C
85	A5	1287	G
85	A5	1288	G
85	A5	1289	C
85	A5	1293	G
85	A5	1294	A
85	A5	1295	C
85	A5	1296	G
85	A5	1297	U
85	A5	1301	C
85	A5	1302	U
85	A5	1303	A
85	A5	1304	C
85	A5	1313	C
85	A5	1325	C
85	A5	1326	A
85	A5	1333	A
85	A5	1335	G
85	A5	1337	A
85	A5	1345	A
85	A5	1354	A
85	A5	1357	C
85	A5	1358	G
85	A5	1359	G
85	A5	1360	G
85	A5	1361	G
85	A5	1365	C
85	A5	1366	G
85	A5	1367	C
85	A5	1368	A
85	A5	1369	C
85	A5	1370	G
85	A5	1371	A
85	A5	1372	A
85	A5	1377	G
85	A5	1378	C

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Mol	Chain	Res	Type
85	A5	1379	C
85	A5	1380	G
85	A5	1381	U
85	A5	1382	G
85	A5	1387	A
85	A5	1390	G
85	A5	1394	G
85	A5	1398	A
85	A5	1399	G
85	A5	1407	C
85	A5	1408	G
85	A5	1409	C
85	A5	1410	U
85	A5	1411	C
85	A5	1420	A
85	A5	1425	G
85	A5	1426	G
85	A5	1427	A
85	A5	1428	U
85	A5	1429	C
85	A5	1432	G
85	A5	1439	C
85	A5	1440	U
85	A5	1441	C
85	A5	1442	C
85	A5	1443	A
85	A5	1444	G
85	A5	1445	U
85	A5	1446	C
85	A5	1447	C
85	A5	1455	G
85	A5	1456	C
85	A5	1475	G
85	A5	1478	C
85	A5	1480	C
85	A5	1481	C
85	A5	1482	G
85	A5	1483	C
85	A5	1485	C
85	A5	1486	C
85	A5	1487	G
85	A5	1497	A

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Mol	Chain	Res	Type
85	A5	1498	G
85	A5	1501	C
85	A5	1518	A
85	A5	1523	A
85	A5	1534	A
85	A5	1547	A
85	A5	1554	A
85	A5	1566	C
85	A5	1568	C
85	A5	1579	C
85	A5	1587	G
85	A5	1591	U
85	A5	1596	U
85	A5	1600	A
85	A5	1608	G
85	A5	1612	G
85	A5	1613	A
85	A5	1614	C
85	A5	1624	G
85	A5	1625	G
85	A5	1631	A
85	A5	1633	G
85	A5	1634	A
85	A5	1640	C
85	A5	1642	A
85	A5	1650	A
85	A5	1651	G
85	A5	1654	G
85	A5	1661	C
85	A5	1664	U
85	A5	1676	C
85	A5	1677	U
85	A5	1680	G
85	A5	1691	G
85	A5	1693	U
85	A5	1697	G
85	A5	1698	C
85	A5	1699	A
85	A5	1700	G
85	A5	1721	G
85	A5	1723	A
85	A5	1724	G

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Mol	Chain	Res	Type
85	A5	1725	U
85	A5	1734	G
85	A5	1741	G
85	A5	1742	A
85	A5	1746	A
85	A5	1750	G
85	A5	1755	C
85	A5	1756	U
85	A5	1758	G
85	A5	1760	G
85	A5	1761	G
85	A5	1764	G
85	A5	1766	A
85	A5	1769	G
85	A5	1770	A
85	A5	1775	A
85	A5	1776	A
85	A5	1777	C
85	A5	1787	A
85	A5	1789	C
85	A5	1790	U
85	A5	1792	U
85	A5	1797	G
85	A5	1803	G
85	A5	1804	A
85	A5	1805	A
85	A5	1806	G
85	A5	1812	C
85	A5	1821	G
85	A5	1822	U
85	A5	1823	G
85	A5	1833	G
85	A5	1834	U
85	A5	1835	G
85	A5	1836	G
85	A5	1841	C
85	A5	1842	G
85	A5	1854	G
85	A5	1855	G
85	A5	1869	G
85	A5	1871	A
85	A5	1890	G

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Mol	Chain	Res	Type
85	A5	1891	A
85	A5	1897	A
85	A5	1902	G
85	A5	1907	A
85	A5	1908	A
85	A5	1918	U
85	A5	1920	C
85	A5	1921	C
85	A5	1922	G
85	A5	1930	U
85	A5	1931	C
85	A5	1932	A
85	A5	1940	G
85	A5	1947	U
85	A5	1948	G
85	A5	1951	G
85	A5	1952	G
85	A5	1961	G
85	A5	1962	A
85	A5	1971	C
85	A5	1972	G
85	A5	1973	G
85	A5	1976	G
85	A5	1978	C
85	A5	1979	A
85	A5	1982	G
85	A5	1983	A
85	A5	1984	A
85	A5	1985	G
85	A5	1987	C
85	A5	1988	G
85	A5	1997	U
85	A5	1998	A
85	A5	1999	A
85	A5	2001	G
85	A5	2002	A
85	A5	2003	G
85	A5	2004	U
85	A5	2008	U
85	A5	2009	A
85	A5	2010	A
85	A5	2016	C

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Mol	Chain	Res	Type
85	A5	2020	U
85	A5	2024	G
85	A5	2025	A
85	A5	2026	A
85	A5	2044	U
85	A5	2047	A
85	A5	2048	U
85	A5	2052	G
85	A5	2066	C
85	A5	2069	A
85	A5	2084	C
85	A5	2085	G
85	A5	2087	C
85	A5	2089	G
85	A5	2090	U
85	A5	2091	C
85	A5	2092	G
85	A5	2094	G
85	A5	2097	U
85	A5	2098	G
85	A5	2100	A
85	A5	2103	G
85	A5	2105	A
85	A5	2106	G
85	A5	2107	C
85	A5	2108	G
85	A5	2109	G
85	A5	2110	C
85	A5	2111	G
85	A5	2112	G
85	A5	2113	G
85	A5	2114	G
85	A5	2115	G
85	A5	2116	C
85	A5	2117	G
85	A5	2118	G
85	A5	2119	C
85	A5	2120	G
85	A5	2123	C
85	A5	2124	G
85	A5	2125	C
85	A5	2126	G

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Mol	Chain	Res	Type
85	A5	2127	C
85	A5	2128	G
85	A5	2131	C
85	A5	2247	C
85	A5	2248	C
85	A5	2250	C
85	A5	2251	G
85	A5	2252	G
85	A5	2254	G
85	A5	2255	C
85	A5	2256	C
85	A5	2257	C
85	A5	2258	C
85	A5	2259	G
85	A5	2260	C
85	A5	2261	G
85	A5	2263	A
85	A5	2264	C
85	A5	2265	G
85	A5	2267	U
85	A5	2268	A
85	A5	2269	C
85	A5	2273	G
85	A5	2289	C
85	A5	2290	C
85	A5	2291	G
85	A5	2301	G
85	A5	2313	A
85	A5	2314	G
85	A5	2315	G
85	A5	2317	C
85	A5	2333	G
85	A5	2336	G
85	A5	2348	G
85	A5	2351	C
85	A5	2354	G
85	A5	2359	U
85	A5	2360	A
85	A5	2363	A
85	A5	2364	G
85	A5	2366	A
85	A5	2395	A

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Mol	Chain	Res	Type
85	A5	2396	A
85	A5	2398	U
85	A5	2399	G
85	A5	2407	G
85	A5	2409	U
85	A5	2410	C
85	A5	2421	G
85	A5	2422	C
85	A5	2426	U
85	A5	2437	C
85	A5	2440	U
85	A5	2441	C
85	A5	2442	G
85	A5	2443	G
85	A5	2447	U
85	A5	2450	G
85	A5	2459	G
85	A5	2470	C
85	A5	2471	G
85	A5	2472	A
85	A5	2475	G
85	A5	2476	G
85	A5	2487	G
85	A5	2488	C
85	A5	2489	C
85	A5	2491	C
85	A5	2495	U
85	A5	2503	G
85	A5	2504	C
85	A5	2505	C
85	A5	2506	G
85	A5	2507	A
85	A5	2513	A
85	A5	2517	A
85	A5	2531	C
85	A5	2532	C
85	A5	2544	G
85	A5	2546	G
85	A5	2547	G
85	A5	2550	G
85	A5	2552	G
85	A5	2554	U

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Mol	Chain	Res	Type
85	A5	2575	U
85	A5	2580	U
85	A5	2583	C
85	A5	2589	C
85	A5	2599	G
85	A5	2601	A
85	A5	2602	G
85	A5	2627	C
85	A5	2631	U
85	A5	2639	U
85	A5	2647	A
85	A5	2648	G
85	A5	2650	G
85	A5	2652	G
85	A5	2661	U
85	A5	2662	G
85	A5	2669	C
85	A5	2670	C
85	A5	2671	C
85	A5	2673	G
85	A5	2674	A
85	A5	2675	G
85	A5	2676	A
85	A5	2681	G
85	A5	2686	G
85	A5	2687	U
85	A5	2688	G
85	A5	2691	U
85	A5	2694	G
85	A5	2695	A
85	A5	2696	A
85	A5	2711	G
85	A5	2713	C
85	A5	2716	C
85	A5	2725	A
85	A5	2726	G
85	A5	2743	A
85	A5	2752	G
85	A5	2753	G
85	A5	2755	A
85	A5	2756	G
85	A5	2761	U

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Mol	Chain	Res	Type
85	A5	2762	G
85	A5	2765	A
85	A5	2766	A
85	A5	2767	U
85	A5	2768	C
85	A5	2769	U
85	A5	2770	C
85	A5	2782	U
85	A5	2787	A
85	A5	2788	U
85	A5	2789	A
85	A5	2790	U
85	A5	2794	C
85	A5	2796	G
85	A5	2798	A
85	A5	2803	U
85	A5	2814	C
85	A5	2824	C
85	A5	2825	A
85	A5	2826	U
85	A5	2827	G
85	A5	2828	U
85	A5	2829	U
85	A5	2833	A
85	A5	2854	G
85	A5	2855	G
85	A5	2884	G
85	A5	2900	U
85	A5	2904	U
85	A5	2905	C
85	A5	3594	C
85	A5	3596	A
85	A5	3597	G
85	A5	3602	C
85	A5	3605	C
85	A5	3606	U
85	A5	3615	G
85	A5	3616	U
85	A5	3617	G
85	A5	3618	C
85	A5	3620	G
85	A5	3625	G

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Mol	Chain	Res	Type
85	A5	3626	G
85	A5	3634	G
85	A5	3635	A
85	A5	3662	A
85	A5	3663	A
85	A5	3664	G
85	A5	3673	C
85	A5	3674	G
85	A5	3682	A
85	A5	3691	G
85	A5	3692	A
85	A5	3697	U
85	A5	3698	G
85	A5	3702	A
85	A5	3709	U
85	A5	3710	G
85	A5	3711	A
85	A5	3713	U
85	A5	3714	G
85	A5	3717	A
85	A5	3727	A
85	A5	3729	U
85	A5	3732	A
85	A5	3748	A
85	A5	3752	C
85	A5	3753	G
85	A5	3754	G
85	A5	3756	A
85	A5	3757	G
85	A5	3759	A
85	A5	3776	G
85	A5	3777	G
85	A5	3778	U
85	A5	3784	A
85	A5	3785	A
85	A5	3786	U
85	A5	3792	G
85	A5	3795	A
85	A5	3802	U
85	A5	3810	C
85	A5	3811	G
85	A5	3812	C

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Mol	Chain	Res	Type
85	A5	3814	U
85	A5	3817	A
85	A5	3818	U
85	A5	3819	G
85	A5	3830	A
85	A5	3833	C
85	A5	3834	C
85	A5	3838	U
85	A5	3840	U
85	A5	3875	G
85	A5	3877	A
85	A5	3878	C
85	A5	3879	G
85	A5	3888	G
85	A5	3889	G
85	A5	3897	G
85	A5	3901	A
85	A5	3906	A
85	A5	3907	G
85	A5	3908	A
85	A5	3910	C
85	A5	3915	U
85	A5	3923	A
85	A5	3937	C
85	A5	3939	G
85	A5	3941	G
85	A5	3947	A
85	A5	3949	A
85	A5	3951	G
85	A5	3955	G
85	A5	3959	U
85	A5	3960	A
85	A5	3962	A
85	A5	3963	A
85	A5	3964	U
85	A5	3965	A
85	A5	3966	A
85	A5	3969	G
85	A5	3970	G
85	A5	3973	G
85	A5	4037	C
85	A5	4038	C

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Mol	Chain	Res	Type
85	A5	4039	G
85	A5	4041	C
85	A5	4042	G
85	A5	4043	G
85	A5	4045	G
85	A5	4047	A
85	A5	4048	A
85	A5	4049	U
85	A5	4053	A
85	A5	4059	C
85	A5	4061	G
85	A5	4062	A
85	A5	4069	U
85	A5	4073	A
85	A5	4076	G
85	A5	4077	A
85	A5	4083	U
85	A5	4086	G
85	A5	4088	C
85	A5	4091	G
85	A5	4093	G
85	A5	4094	G
85	A5	4114	C
85	A5	4115	G
85	A5	4116	C
85	A5	4117	U
85	A5	4119	C
85	A5	4120	U
85	A5	4121	G
85	A5	4122	G
85	A5	4125	C
85	A5	4126	C
85	A5	4127	A
85	A5	4128	A
85	A5	4131	G
85	A5	4133	C
85	A5	4136	G
85	A5	4141	G
85	A5	4143	G
85	A5	4144	C
85	A5	4145	C
85	A5	4153	C

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Mol	Chain	Res	Type
85	A5	4158	C
85	A5	4159	C
85	A5	4161	G
85	A5	4162	C
85	A5	4163	U
85	A5	4164	C
85	A5	4165	C
85	A5	4170	A
85	A5	4171	C
85	A5	4175	G
85	A5	4183	G
85	A5	4184	G
85	A5	4191	G
85	A5	4201	G
85	A5	4212	A
85	A5	4214	A
85	A5	4229	U
85	A5	4232	U
85	A5	4233	A
85	A5	4238	G
85	A5	4249	G
85	A5	4251	A
85	A5	4253	A
85	A5	4254	G
85	A5	4258	C
85	A5	4266	G
85	A5	4267	G
85	A5	4268	A
85	A5	4270	C
85	A5	4271	A
85	A5	4273	A
85	A5	4276	G
85	A5	4280	A
85	A5	4285	U
85	A5	4291	G
85	A5	4296	U
85	A5	4297	G
85	A5	4304	A
85	A5	4306	U
85	A5	4328	G
85	A5	4329	G
85	A5	4330	G

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Mol	Chain	Res	Type
85	A5	4331	G
85	A5	4332	C
85	A5	4347	G
85	A5	4348	A
85	A5	4349	C
85	A5	4350	C
85	A5	4354	U
85	A5	4355	G
85	A5	4356	G
85	A5	4373	G
85	A5	4376	A
85	A5	4377	G
85	A5	4378	A
85	A5	4383	U
85	A5	4387	C
85	A5	4394	A
85	A5	4395	U
85	A5	4396	A
85	A5	4406	U
85	A5	4419	U
85	A5	4422	A
85	A5	4426	C
85	A5	4438	U
85	A5	4444	C
85	A5	4448	G
85	A5	4449	A
85	A5	4450	U
85	A5	4452	U
85	A5	4453	C
85	A5	4455	G
85	A5	4456	C
85	A5	4464	A
85	A5	4473	A
85	A5	4474	A
85	A5	4475	G
85	A5	4476	C
85	A5	4477	A
85	A5	4500	U
85	A5	4504	C
85	A5	4512	U
85	A5	4513	A
85	A5	4518	A

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Mol	Chain	Res	Type
85	A5	4519	C
85	A5	4522	G
85	A5	4528	G
85	A5	4532	U
85	A5	4534	G
85	A5	4550	G
85	A5	4567	G
85	A5	4569	U
85	A5	4570	G
85	A5	4574	U
85	A5	4575	G
85	A5	4590	A
85	A5	4599	A
85	A5	4601	U
85	A5	4626	A
85	A5	4636	U
85	A5	4637	G
85	A5	4639	G
85	A5	4640	C
85	A5	4656	A
85	A5	4657	U
85	A5	4658	G
85	A5	4661	G
85	A5	4664	A
85	A5	4670	C
85	A5	4671	C
85	A5	4672	A
85	A5	4675	U
85	A5	4677	U
85	A5	4678	G
85	A5	4691	A
85	A5	4694	G
85	A5	4695	C
85	A5	4697	U
85	A5	4706	G
85	A5	4708	A
85	A5	4709	U
85	A5	4712	C
85	A5	4714	C
85	A5	4717	A
85	A5	4720	C
85	A5	4728	U

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Mol	Chain	Res	Type
85	A5	4729	A
85	A5	4730	C
85	A5	4731	G
85	A5	4734	A
85	A5	4735	G
85	A5	4736	C
85	A5	4739	C
85	A5	4745	G
85	A5	4748	U
85	A5	4749	C
85	A5	4750	G
85	A5	4751	G
85	A5	4752	U
85	A5	4753	U
85	A5	4756	C
85	A5	4758	U
85	A5	4762	A
85	A5	4764	A
85	A5	4771	C
85	A5	4867	G
85	A5	4870	G
85	A5	4871	C
85	A5	4872	G
85	A5	4874	A
85	A5	4875	G
85	A5	4876	U
85	A5	4877	G
85	A5	4882	U
85	A5	4883	C
85	A5	4884	G
85	A5	4885	U
85	A5	4886	C
85	A5	4888	U
85	A5	4889	G
85	A5	4890	G
85	A5	4895	C
85	A5	4896	G
85	A5	4898	G
85	A5	4899	G
85	A5	4900	C
85	A5	4901	G
85	A5	4904	G

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Mol	Chain	Res	Type
85	A5	4906	C
85	A5	4908	G
85	A5	4910	G
85	A5	4912	G
85	A5	4913	G
85	A5	4914	C
85	A5	4915	G
85	A5	4925	U
85	A5	4932	U
85	A5	4933	C
85	A5	4934	A
85	A5	4935	C
85	A5	4937	C
85	A5	4938	A
85	A5	4943	A
85	A5	4944	C
85	A5	4945	G
85	A5	4949	G
85	A5	4951	G
85	A5	4952	G
85	A5	4956	A
85	A5	4965	U
85	A5	4966	A
85	A5	4967	A
85	A5	4975	G
85	A5	4976	U
85	A5	4979	A
85	A5	4985	U
85	A5	4988	U
85	A5	4989	U
85	A5	4991	U
85	A5	4992	G
85	A5	4998	G
85	A5	5002	U
85	A5	5003	U
85	A5	5004	C
85	A5	5006	U
85	A5	5007	A
85	A5	5008	C
85	A5	5013	C
85	A5	5014	A
85	A5	5017	G

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Mol	Chain	Res	Type
85	A5	5019	A
85	A5	5020	G
85	A5	5021	C
85	A5	5022	U
85	A5	5023	C
85	A5	5027	C
85	A5	5028	G
85	A5	5041	G
85	A5	5042	A
85	A5	5047	C
85	A5	5050	C
85	A5	5054	C
85	A5	5059	C
85	A5	5060	A
85	A5	5061	A
85	A5	5062	G
85	A5	5063	G
85	A5	5067	U
86	A7	7	G
86	A7	11	A
86	A7	13	A
86	A7	15	C
86	A7	21	G
86	A7	22	A
86	A7	26	C
86	A7	33	U
86	A7	41	G
86	A7	42	A
86	A7	45	U
86	A7	50	A
86	A7	52	C
86	A7	53	U
86	A7	63	C
86	A7	64	G
86	A7	73	U
86	A7	74	A
86	A7	93	G
86	A7	100	A
86	A7	110	G
86	A7	112	U
86	A7	113	G
86	A7	121	U

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Mol	Chain	Res	Type
87	A8	16	G
87	A8	23	C
87	A8	30	U
87	A8	34	U
87	A8	35	C
87	A8	38	U
87	A8	51	U
87	A8	59	A
87	A8	62	A
87	A8	63	U
87	A8	76	C
87	A8	81	C
87	A8	82	A
87	A8	83	C
87	A8	84	A
87	A8	85	U
87	A8	86	U
87	A8	87	G
87	A8	90	C
87	A8	92	U
87	A8	94	G
87	A8	95	A
87	A8	97	A
87	A8	103	A
87	A8	104	A
87	A8	105	C
87	A8	112	G
87	A8	122	G
87	A8	125	C
87	A8	126	C
87	A8	127	U
87	A8	132	G
87	A8	137	A
87	A8	142	U
87	A8	150	C
87	A8	154	G
87	A8	156	U
87	A8	157	U

All (482) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type

Mol	Chain	Res	Type
36	B2	2	A
36	B2	24	C
36	B2	31	U
36	B2	44	U
36	B2	65	C
36	B2	66	G
36	B2	72	C
36	B2	74	G
36	B2	77	A
36	B2	78	C
36	B2	102	A
36	B2	127	C
36	B2	139	C
36	B2	140	C
36	B2	141	A
36	B2	160	U
36	B2	181	A
36	B2	183	G
36	B2	190	G
36	B2	214	U
36	B2	225	G
36	B2	228	C
36	B2	285	U
36	B2	287	U
36	B2	308	G
36	B2	325	C
36	B2	327	G
36	B2	335	G
36	B2	368	U
36	B2	406	U
36	B2	465	A
36	B2	516	A
36	B2	531	A
36	B2	532	C
36	B2	534	G
36	B2	548	C
36	B2	552	G
36	B2	592	C
36	B2	604	A
36	B2	606	G
36	B2	655	A

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Mol	Chain	Res	Type
36	B2	687	C
36	B2	688	U
36	B2	690	G
36	B2	695	C
36	B2	698	G
36	B2	732	U
36	B2	734	C
36	B2	740	C
36	B2	746	C
36	B2	747	U
36	B2	750	C
36	B2	751	G
36	B2	752	G
36	B2	753	C
36	B2	754	G
36	B2	796	G
36	B2	797	C
36	B2	798	G
36	B2	811	A
36	B2	821	G
36	B2	833	C
36	B2	839	C
36	B2	869	A
36	B2	873	G
36	B2	875	A
36	B2	880	G
36	B2	886	A
36	B2	919	A
36	B2	970	G
36	B2	998	A
36	B2	1016	U
36	B2	1108	G
36	B2	1115	U
36	B2	1137	U
36	B2	1155	U
36	B2	1157	G
36	B2	1165	G
36	B2	1214	A
36	B2	1215	C
36	B2	1253	A
36	B2	1265	A
36	B2	1276	A

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Mol	Chain	Res	Type
36	B2	1283	C
36	B2	1307	U
36	B2	1394	G
36	B2	1395	C
36	B2	1396	A
36	B2	1401	A
36	B2	1411	G
36	B2	1416	C
36	B2	1417	C
36	B2	1418	C
36	B2	1429	G
36	B2	1434	C
36	B2	1436	C
36	B2	1474	A
36	B2	1475	G
36	B2	1476	A
36	B2	1477	U
36	B2	1494	U
36	B2	1519	U
36	B2	1520	G
36	B2	1538	C
36	B2	1543	U
36	B2	1549	U
36	B2	1553	C
36	B2	1556	A
36	B2	1557	C
36	B2	1578	U
36	B2	1598	G
36	B2	1601	A
36	B2	1632	G
36	B2	1637	A
36	B2	1664	A
36	B2	1679	A
36	B2	1701	C
36	B2	1720	U
36	B2	1721	U
36	B2	1756	C
36	B2	1779	G
36	B2	1780	G
36	B2	1783	C
36	B2	1823	A
36	B2	1825	A

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Mol	Chain	Res	Type
36	B2	1830	U
36	B2	1851	A
36	B2	1868	U
37	BC	17	G
37	BC	45	G
37	BC	57	A
85	A5	12	A
85	A5	64	A
85	A5	119	G
85	A5	125	C
85	A5	141	C
85	A5	142	G
85	A5	143	C
85	A5	177	G
85	A5	183	C
85	A5	184	U
85	A5	186	G
85	A5	187	U
85	A5	215	C
85	A5	218	A
85	A5	219	G
85	A5	220	C
85	A5	224	U
85	A5	237	G
85	A5	245	C
85	A5	293	G
85	A5	309	C
85	A5	315	G
85	A5	316	U
85	A5	333	U
85	A5	406	C
85	A5	408	A
85	A5	431	G
85	A5	444	G
85	A5	445	U
85	A5	451	C
85	A5	452	A
85	A5	453	G
85	A5	484	U
85	A5	486	C
85	A5	497	G
85	A5	499	G

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Mol	Chain	Res	Type
85	A5	503	C
85	A5	505	G
85	A5	638	G
85	A5	639	U
85	A5	648	G
85	A5	655	C
85	A5	661	C
85	A5	664	G
85	A5	666	G
85	A5	668	C
85	A5	669	C
85	A5	685	C
85	A5	686	A
85	A5	693	C
85	A5	703	G
85	A5	727	C
85	A5	740	G
85	A5	745	G
85	A5	746	A
85	A5	911	U
85	A5	917	A
85	A5	926	G
85	A5	927	G
85	A5	930	G
85	A5	931	C
85	A5	934	C
85	A5	936	C
85	A5	943	A
85	A5	945	U
85	A5	955	G
85	A5	956	A
85	A5	957	G
85	A5	958	G
85	A5	959	G
85	A5	963	G
85	A5	965	G
85	A5	967	C
85	A5	969	C
85	A5	970	G
85	A5	971	U
85	A5	974	C
85	A5	982	U

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Mol	Chain	Res	Type
85	A5	1052	G
85	A5	1071	C
85	A5	1072	C
85	A5	1163	G
85	A5	1166	G
85	A5	1167	C
85	A5	1197	C
85	A5	1210	C
85	A5	1211	G
85	A5	1214	C
85	A5	1218	G
85	A5	1221	G
85	A5	1222	A
85	A5	1232	G
85	A5	1238	A
85	A5	1239	C
85	A5	1240	G
85	A5	1241	C
85	A5	1242	G
85	A5	1243	C
85	A5	1245	C
85	A5	1266	G
85	A5	1267	C
85	A5	1268	G
85	A5	1269	G
85	A5	1270	A
85	A5	1272	C
85	A5	1274	A
85	A5	1280	C
85	A5	1281	G
85	A5	1284	G
85	A5	1285	U
85	A5	1287	G
85	A5	1288	G
85	A5	1293	G
85	A5	1294	A
85	A5	1296	G
85	A5	1302	U
85	A5	1324	A
85	A5	1325	C
85	A5	1356	U
85	A5	1358	G

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Mol	Chain	Res	Type
85	A5	1360	G
85	A5	1365	C
85	A5	1366	G
85	A5	1369	C
85	A5	1371	A
85	A5	1378	C
85	A5	1379	C
85	A5	1380	G
85	A5	1387	A
85	A5	1398	A
85	A5	1407	C
85	A5	1410	U
85	A5	1419	G
85	A5	1420	A
85	A5	1426	G
85	A5	1428	U
85	A5	1439	C
85	A5	1440	U
85	A5	1442	C
85	A5	1444	G
85	A5	1445	U
85	A5	1446	C
85	A5	1455	G
85	A5	1474	C
85	A5	1481	C
85	A5	1482	G
85	A5	1484	G
85	A5	1485	C
85	A5	1500	A
85	A5	1533	A
85	A5	1590	C
85	A5	1613	A
85	A5	1633	G
85	A5	1650	A
85	A5	1696	C
85	A5	1698	C
85	A5	1700	G
85	A5	1774	C
85	A5	1804	A
85	A5	1805	A
85	A5	1832	C
85	A5	1833	G

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Mol	Chain	Res	Type
85	A5	1835	G
85	A5	1841	C
85	A5	1853	G
85	A5	1919	G
85	A5	1920	C
85	A5	1921	C
85	A5	1931	C
85	A5	1947	U
85	A5	1975	G
85	A5	2009	A
85	A5	2025	A
85	A5	2046	G
85	A5	2068	C
85	A5	2083	C
85	A5	2088	A
85	A5	2089	G
85	A5	2091	C
85	A5	2094	G
85	A5	2097	U
85	A5	2105	A
85	A5	2107	C
85	A5	2116	C
85	A5	2119	C
85	A5	2122	G
85	A5	2123	C
85	A5	2124	G
85	A5	2127	C
85	A5	2246	C
85	A5	2247	C
85	A5	2250	C
85	A5	2251	G
85	A5	2255	C
85	A5	2256	C
85	A5	2257	C
85	A5	2258	C
85	A5	2259	G
85	A5	2260	C
85	A5	2263	A
85	A5	2264	C
85	A5	2266	C
85	A5	2267	U
85	A5	2268	A

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Mol	Chain	Res	Type
85	A5	2272	C
85	A5	2290	C
85	A5	2313	A
85	A5	2395	A
85	A5	2398	U
85	A5	2421	G
85	A5	2487	G
85	A5	2490	U
85	A5	2505	C
85	A5	2506	G
85	A5	2529	A
85	A5	2531	C
85	A5	2546	G
85	A5	2549	G
85	A5	2551	A
85	A5	2574	G
85	A5	2587	A
85	A5	2626	U
85	A5	2638	G
85	A5	2649	G
85	A5	2651	C
85	A5	2661	U
85	A5	2669	C
85	A5	2670	C
85	A5	2673	G
85	A5	2675	G
85	A5	2695	A
85	A5	2724	G
85	A5	2740	U
85	A5	2760	G
85	A5	2761	U
85	A5	2766	A
85	A5	2769	U
85	A5	2825	A
85	A5	2827	G
85	A5	2875	C
85	A5	2882	A
85	A5	3593	C
85	A5	3605	C
85	A5	3616	U
85	A5	3662	A
85	A5	3663	A

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Mol	Chain	Res	Type
85	A5	3672	G
85	A5	3697	U
85	A5	3731	C
85	A5	3753	G
85	A5	3777	G
85	A5	3784	A
85	A5	3786	U
85	A5	3876	A
85	A5	3887	C
85	A5	3888	G
85	A5	3907	G
85	A5	3946	G
85	A5	3959	U
85	A5	3963	A
85	A5	3965	A
85	A5	3968	U
85	A5	3972	A
85	A5	3977	C
85	A5	4036	G
85	A5	4041	C
85	A5	4061	G
85	A5	4072	C
85	A5	4075	U
85	A5	4082	G
85	A5	4085	A
85	A5	4087	G
85	A5	4093	G
85	A5	4115	G
85	A5	4119	C
85	A5	4121	G
85	A5	4127	A
85	A5	4130	C
85	A5	4135	G
85	A5	4143	G
85	A5	4144	C
85	A5	4163	U
85	A5	4164	C
85	A5	4170	A
85	A5	4232	U
85	A5	4233	A
85	A5	4237	C
85	A5	4305	G

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Mol	Chain	Res	Type
85	A5	4329	G
85	A5	4335	C
85	A5	4348	A
85	A5	4354	U
85	A5	4395	U
85	A5	4448	G
85	A5	4449	A
85	A5	4452	U
85	A5	4527	G
85	A5	4635	A
85	A5	4639	G
85	A5	4656	A
85	A5	4671	C
85	A5	4694	G
85	A5	4713	G
85	A5	4719	G
85	A5	4720	C
85	A5	4730	C
85	A5	4735	G
85	A5	4738	C
85	A5	4747	C
85	A5	4748	U
85	A5	4749	C
85	A5	4752	U
85	A5	4869	U
85	A5	4871	C
85	A5	4874	A
85	A5	4876	U
85	A5	4882	U
85	A5	4885	U
85	A5	4887	C
85	A5	4888	U
85	A5	4889	G
85	A5	4900	C
85	A5	4907	G
85	A5	4924	C
85	A5	4936	G
85	A5	4937	C
85	A5	4942	C
85	A5	4943	A
85	A5	4951	G
85	A5	4991	U

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Mol	Chain	Res	Type
85	A5	4997	G
85	A5	5006	U
85	A5	5022	U
85	A5	5027	C
85	A5	5059	C
85	A5	5060	A
85	A5	5061	A
86	A7	72	U
86	A7	73	U
87	A8	34	U
87	A8	38	U
87	A8	40	A
87	A8	48	A
87	A8	83	C
87	A8	85	U
87	A8	94	G
87	A8	96	C
87	A8	108	A
87	A8	111	U
87	A8	124	U
87	A8	126	C

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
74	CC	5
63	CB	4
82	CG	3
26	AJ	3
81	CE	3
47	CI	2
1	Az	2
66	Cd	2
8	AS	2
29	AG	2
58	CW	2
64	CF	2
38	Cz	1
23	AD	1
41	CO	1
70	Ci	1
53	CT	1
24	Ae	1
33	AI	1
61	Ch	1
3	AU	1
56	CX	1
73	Cl	1
69	Cg	1
28	AC	1
12	AR	1
35	Ah	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Cz	100:VAL	C	101:LYS	N	2.08
1	AD	5:ILE	C	6:SER	N	1.82
1	CI	205:PRO	C	206:LEU	N	1.82
1	CO	202:LEU	C	203:VAL	N	1.80
1	Ci	78:GLY	C	79:THR	N	1.80
1	CG	243:GLY	C	244:PRO	N	1.80
1	Az	712:ASP	C	713:ALA	N	1.79
1	CT	150:LEU	C	151:LEU	N	1.78
1	Ae	21:LYS	C	22:GLN	N	1.76

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	Cd	108:TYR	C	109:VAL	N	1.75
1	CG	35:ARG	C	36:PRO	N	1.75
1	AJ	118:GLY	C	119:LEU	N	1.73
1	CB	297:LYS	C	298:LEU	N	1.69
1	AI	43:ILE	C	44:HIS	N	1.67
1	CG	103:ARG	C	104:PRO	N	1.67
1	Ch	114:TYR	C	115:PRO	N	1.64
1	AU	93:SER	C	94:PRO	N	1.61
1	AJ	146:SER	C	147:PHE	N	1.61
1	CX	53:ARG	C	54:LEU	N	1.61
1	Cl	5:LYS	C	6:THR	N	1.61
1	CE	36:LYS	C	37:PRO	N	1.61
1	CE	115:TYR	C	116:TYR	N	1.61
1	Az	269:ALA	C	270:ASN	N	1.60
1	AS	141:ARG	C	142:ARG	N	1.60
1	Cg	45:ALA	C	46:CYS	N	1.19
1	CI	193:ASP	C	194:GLY	N	1.18
1	CE	125:LEU	C	126:LEU	N	1.18
1	AC	108:LYS	C	109:ILE	N	1.17
1	CC	304:ALA	C	305:PRO	N	1.17
1	AG	130:PRO	C	131:ARG	N	1.16
1	Cd	105:LEU	C	106:VAL	N	1.16
1	CC	54:VAL	C	55:SER	N	1.16
1	CB	16:PHE	C	17:LEU	N	1.14
1	AR	1:MET	C	2:GLY	N	1.13
1	CW	32:LEU	C	33:ASN	N	1.13
1	CB	15:GLY	C	16:PHE	N	1.12
1	CW	31:PHE	C	32:LEU	N	1.11
1	CC	226:GLY	C	227:ILE	N	1.11
1	AS	40:TYR	C	41:ALA	N	1.09
1	AG	219:GLU	C	220:ALA	N	1.09
1	CB	298:LEU	C	299:ILE	N	1.09
1	CF	183:GLY	C	184:ILE	N	1.08
1	CC	150:LEU	C	151:PRO	N	1.08
1	Ah	294:LYS	C	295:ALA	N	1.04
1	CF	23:ARG	C	24:ASN	N	1.00
1	AJ	85:GLY	C	86:VAL	N	0.95
1	CC	348:LYS	C	349:LEU	N	0.73

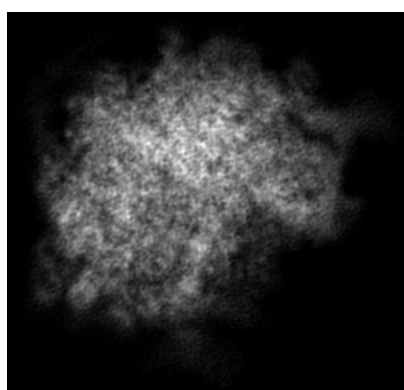
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5592. These allow visual inspection of the internal detail of the map and identification of artifacts.

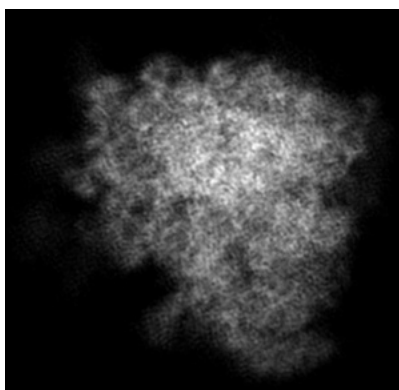
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

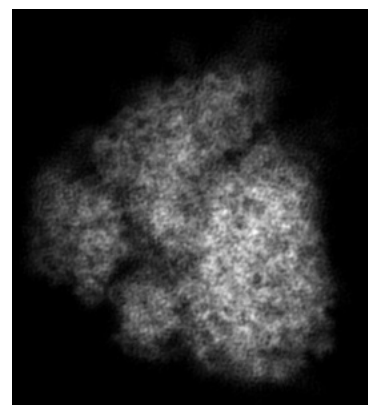
6.1.1 Primary map



X



Y

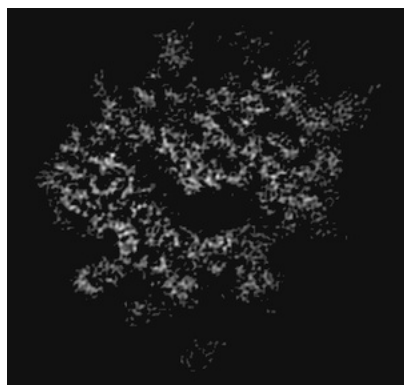


Z

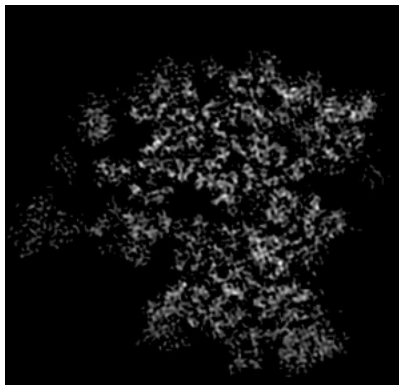
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

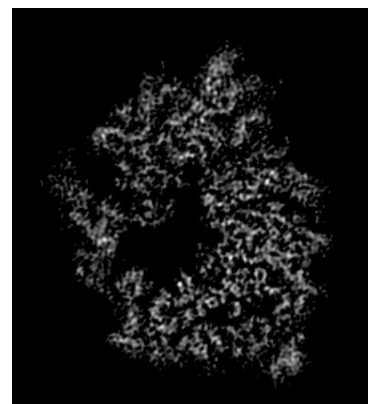
6.2.1 Primary map



X Index: 125



Y Index: 137

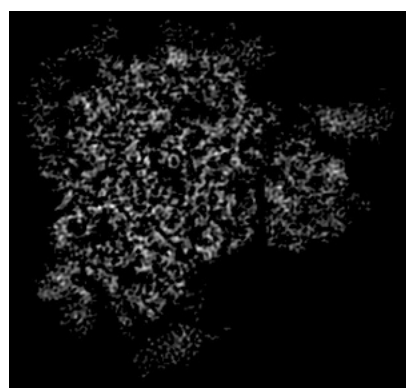


Z Index: 130

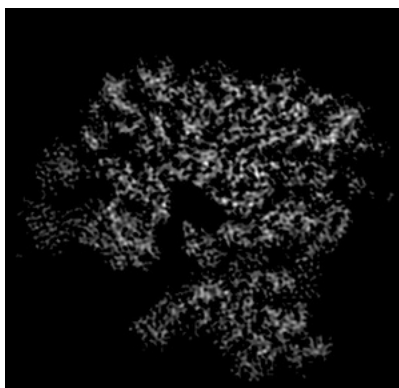
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

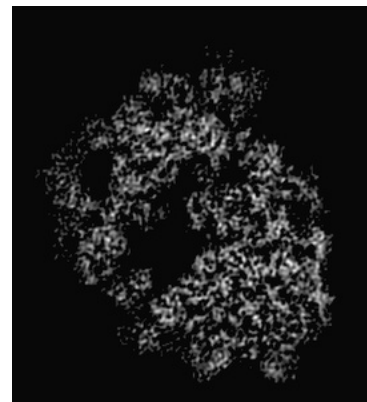
6.3.1 Primary map



X Index: 156



Y Index: 127

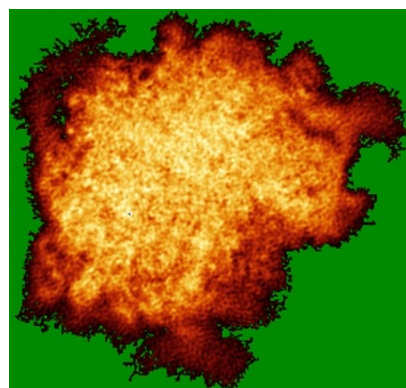


Z Index: 137

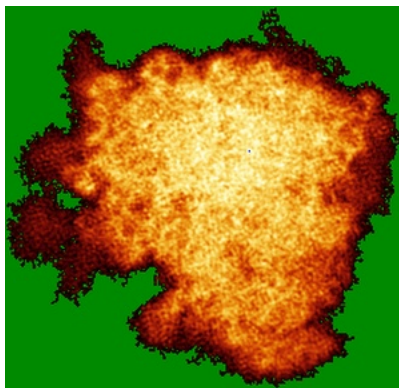
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

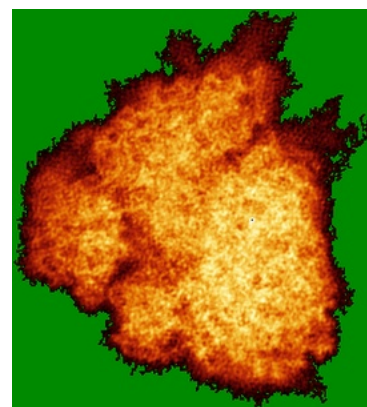
6.4.1 Primary map



X



Y

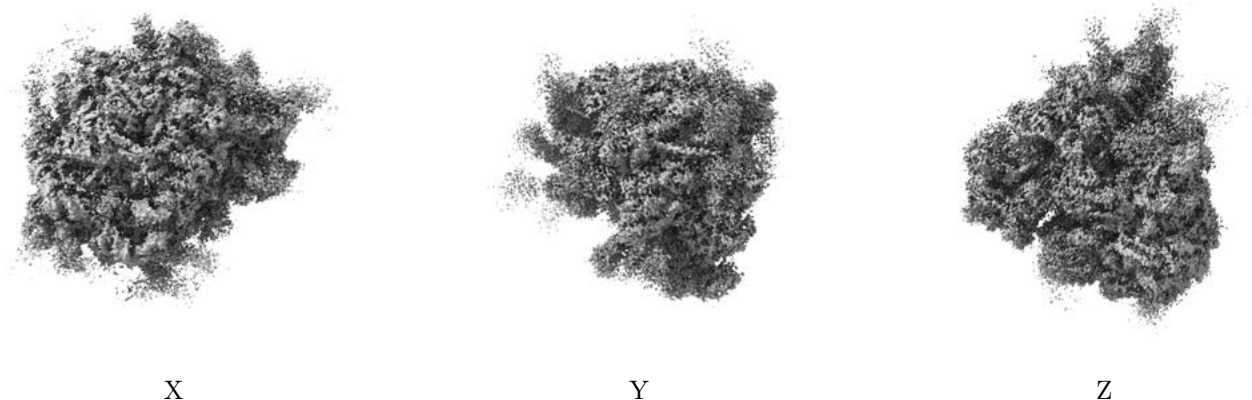


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

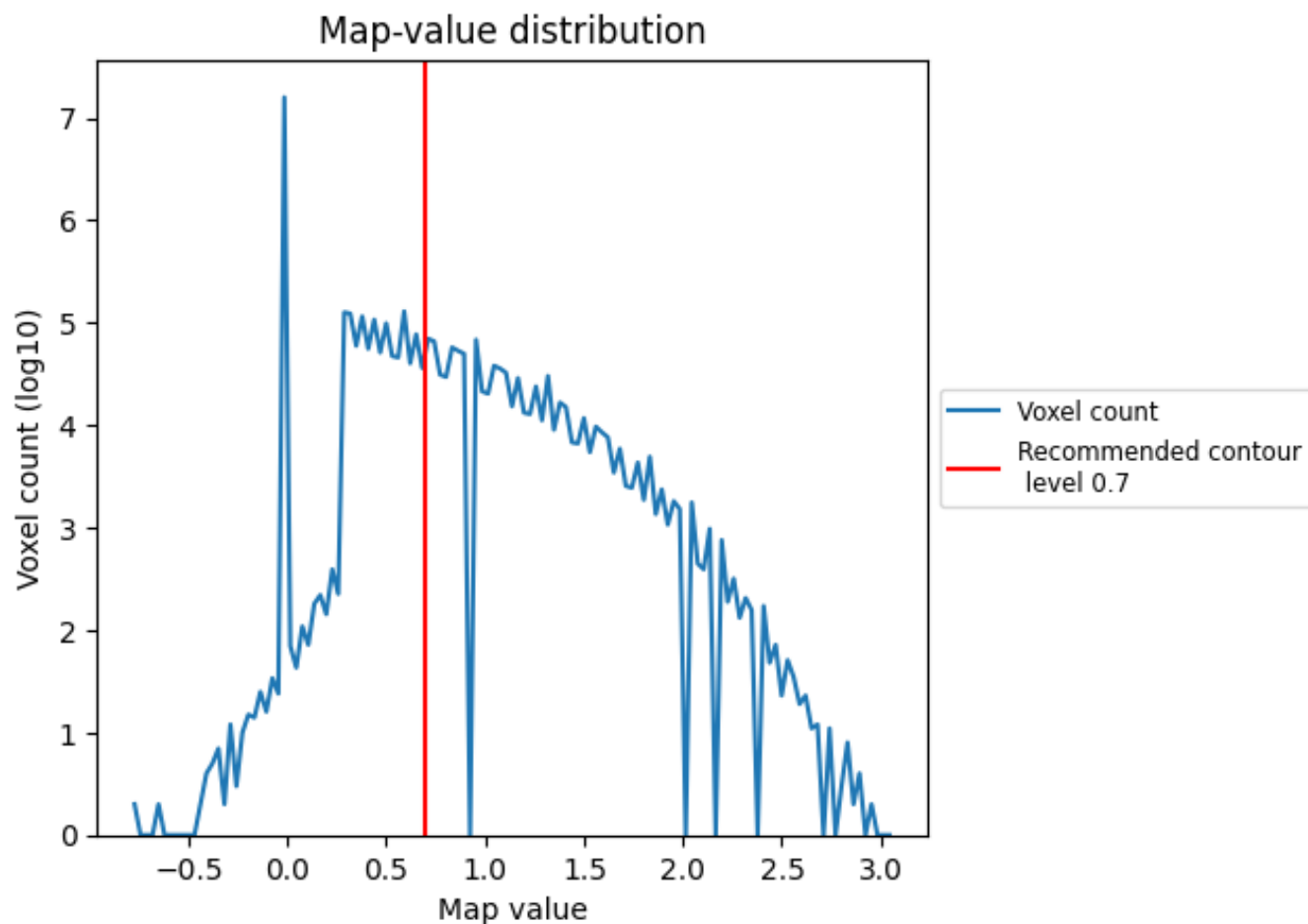
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

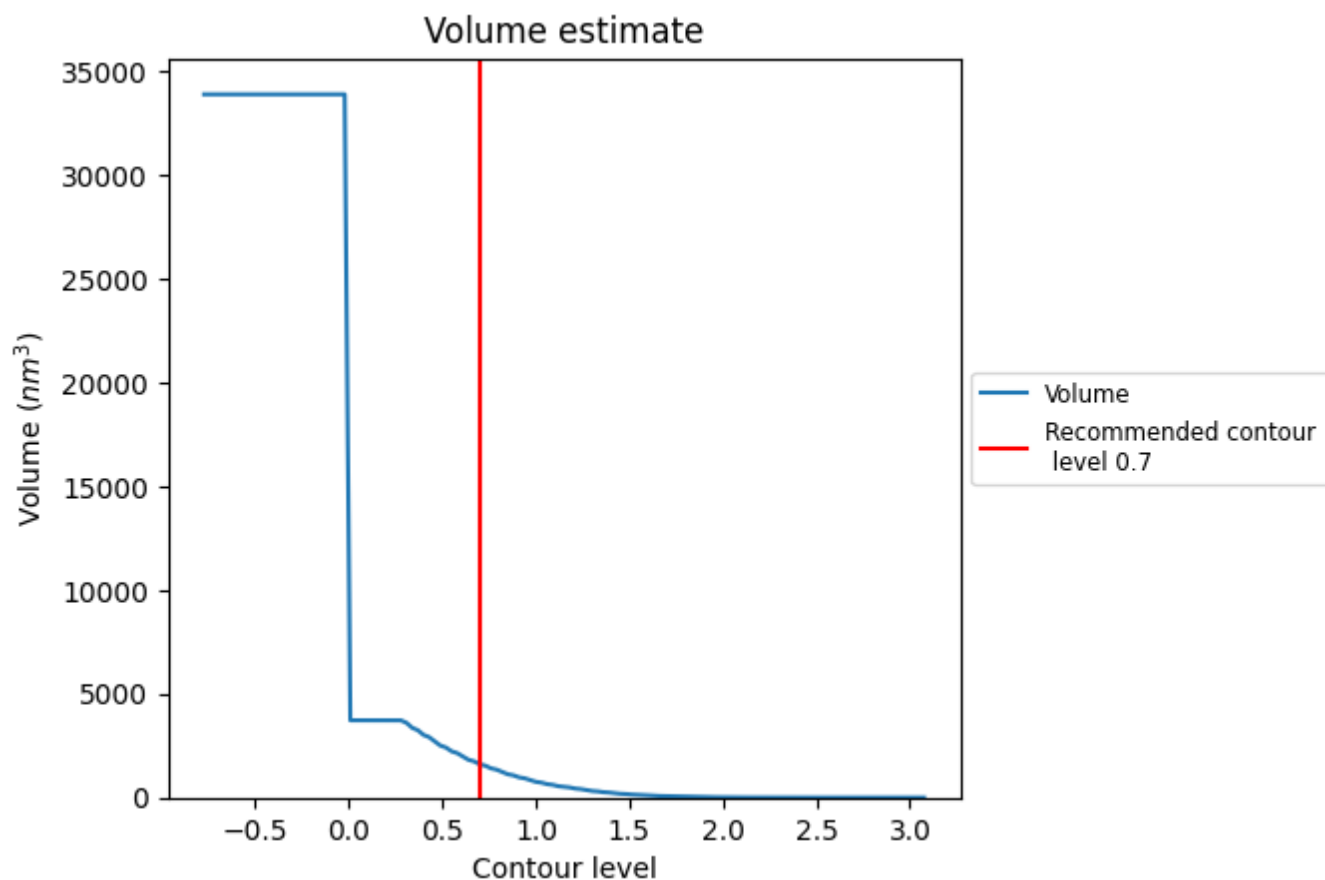
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1606 nm³; this corresponds to an approximate mass of 1451 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

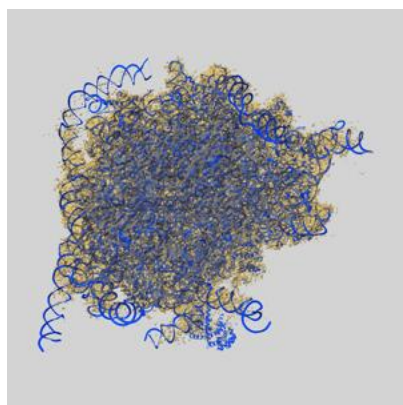
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

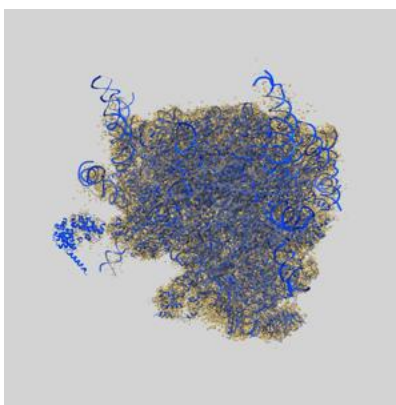
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-5592 and PDB model 4V6X. Per-residue inclusion information can be found in [section 3](#) on [page 20](#).

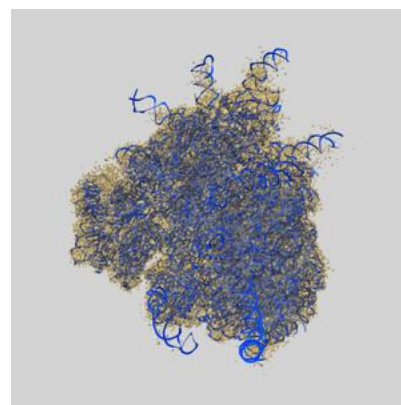
9.1 Map-model overlay [i](#)



X



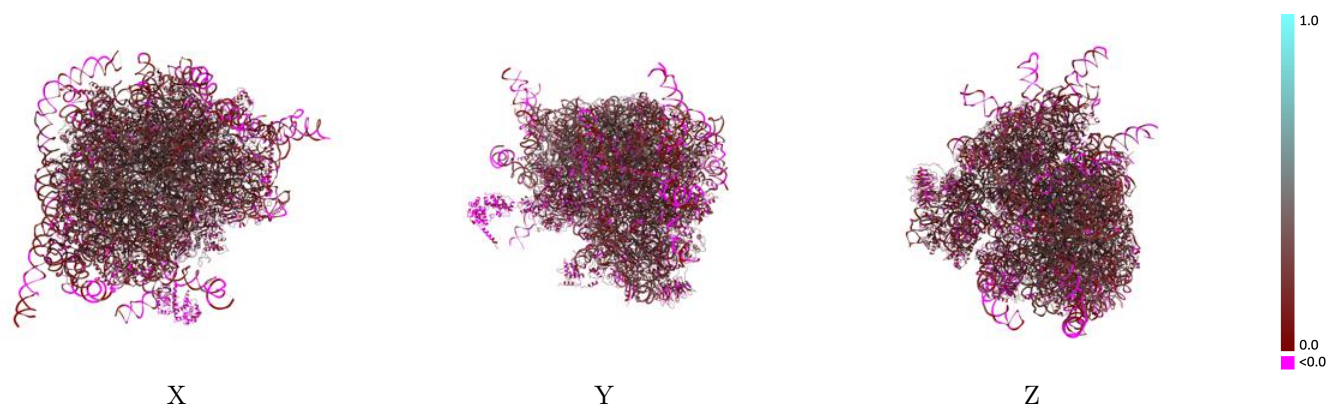
Y



Z

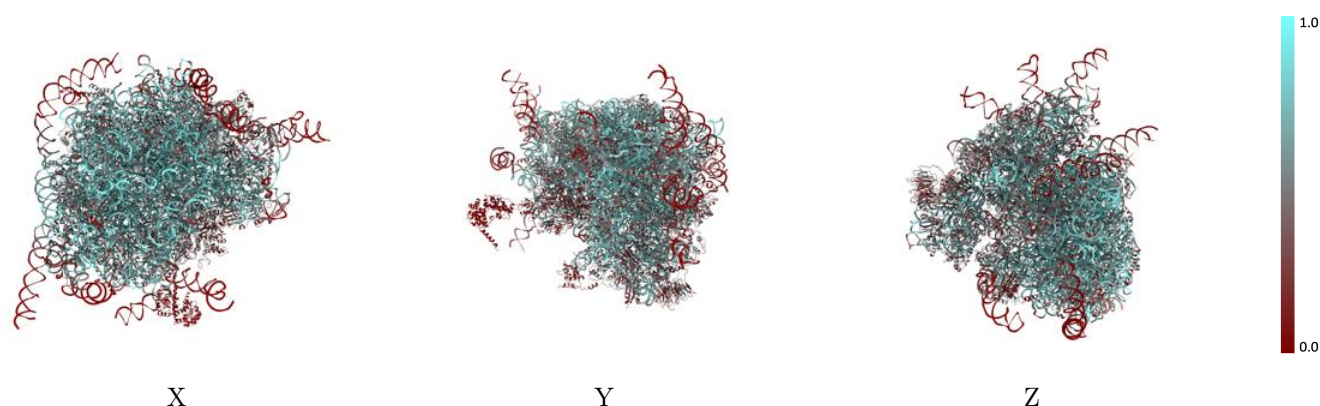
The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



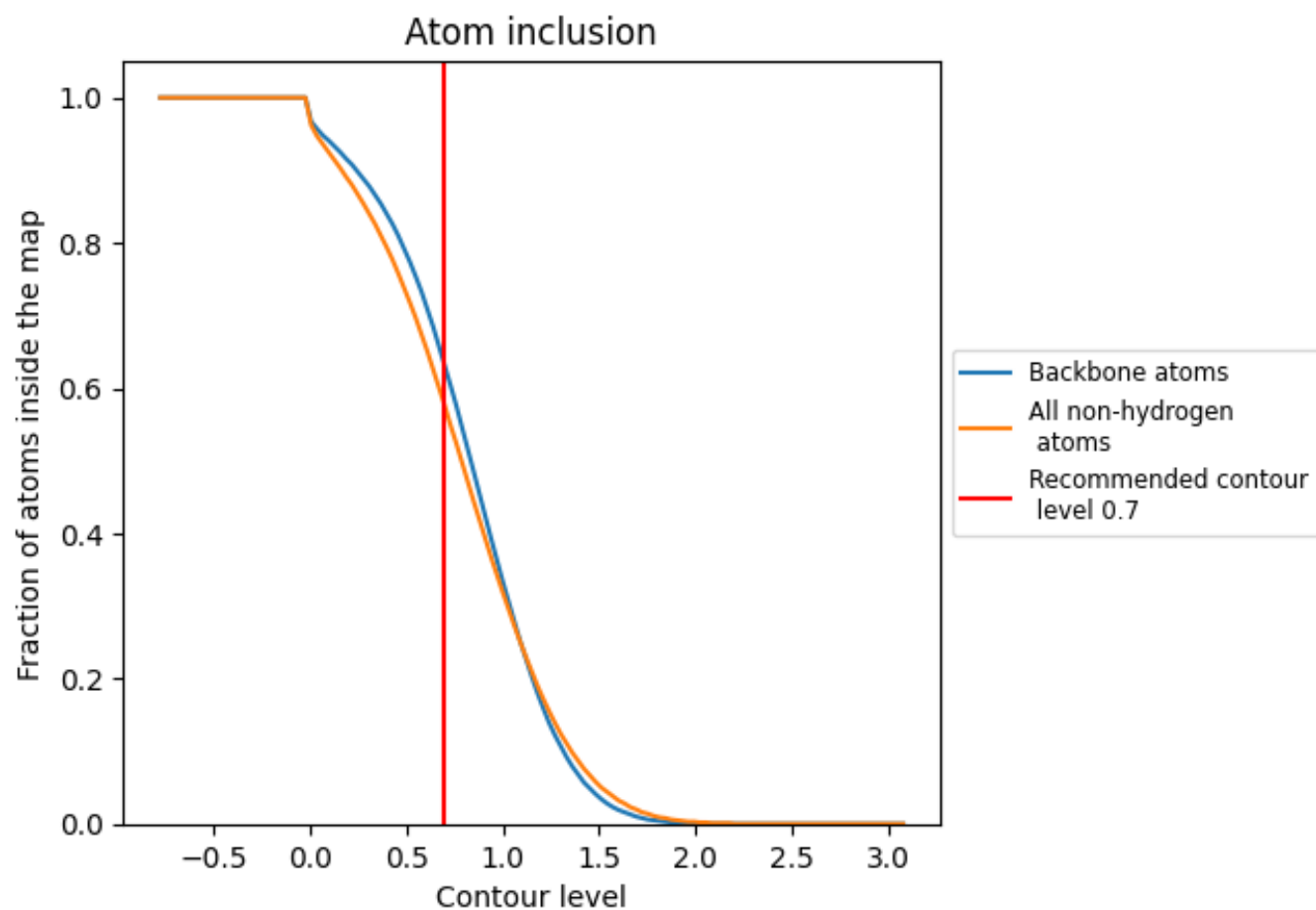
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.7).

9.4 Atom inclusion [i](#)



At the recommended contour level, 63% of all backbone atoms, 58% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5760	 0.2200
A5	 0.6920	 0.2410
A7	 0.7990	 0.2610
A8	 0.7520	 0.2580
AA	 0.4180	 0.1840
AB	 0.4440	 0.2060
AC	 0.4350	 0.2170
AD	 0.3450	 0.1920
AE	 0.4430	 0.1820
AF	 0.4090	 0.1580
AG	 0.3780	 0.1510
AH	 0.4060	 0.2060
AI	 0.4370	 0.1800
AJ	 0.5080	 0.1950
AK	 0.4700	 0.2000
AL	 0.4140	 0.2350
AM	 0.2370	 0.0930
AN	 0.4490	 0.1920
AO	 0.4170	 0.1860
AP	 0.3780	 0.1600
AQ	 0.4120	 0.1930
AR	 0.3380	 0.1640
AS	 0.4510	 0.1900
AT	 0.4860	 0.2080
AU	 0.3690	 0.2080
AV	 0.4250	 0.2210
AW	 0.4640	 0.2290
AX	 0.4390	 0.2380
AY	 0.4910	 0.2130
AZ	 0.3910	 0.1750
Aa	 0.4420	 0.2090
Ab	 0.4110	 0.2280
Ac	 0.3350	 0.1740
Ad	 0.5290	 0.2270
Ae	 0.4550	 0.2860



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Chain	Atom inclusion	Q-score
Af	 0.3750	 0.1780
Ag	 0.3390	 0.1580
Ah	 0.1660	 0.1290
Az	 0.3150	 0.1840
B2	 0.6850	 0.2240
BC	 0.4030	 0.1640
CA	 0.4630	 0.2400
CB	 0.5040	 0.2580
CC	 0.5290	 0.2470
CD	 0.5290	 0.1920
CE	 0.4160	 0.1750
CF	 0.5220	 0.2430
CG	 0.4950	 0.2200
CH	 0.4260	 0.1790
CI	 0.4830	 0.2490
CJ	 0.4360	 0.1350
CK	 0.2570	 0.1450
CL	 0.4850	 0.2420
CM	 0.5490	 0.2360
CN	 0.5410	 0.2460
CO	 0.4950	 0.2180
CP	 0.5620	 0.2760
CQ	 0.4810	 0.2220
CR	 0.5040	 0.2240
CS	 0.5680	 0.2640
CT	 0.5480	 0.3120
CU	 0.4420	 0.1920
CV	 0.4210	 0.2490
CW	 0.3080	 0.1930
CX	 0.5120	 0.2550
CY	 0.5490	 0.2140
CZ	 0.5430	 0.2490
Ca	 0.5340	 0.2650
Cb	 0.4460	 0.2260
Cc	 0.4780	 0.2200
Cd	 0.5580	 0.2800
Ce	 0.4790	 0.2510
Cf	 0.5040	 0.2510
Cg	 0.5350	 0.2690
Ch	 0.5470	 0.2380
Ci	 0.5000	 0.2400
Cj	 0.5670	 0.2740

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Chain	Atom inclusion	Q-score
Ck	 0.4220	 0.1630
Cl	 0.5320	 0.2540
Cm	 0.5230	 0.2620
Cn	 0.4430	 0.2520
Co	 0.5460	 0.2610
Cp	 0.5090	 0.2620
Cq	 0.2270	 0.0780
Cr	 0.4860	 0.2410
Cs	 0.0190	 -0.0450
Ct	 0.0000	 -0.0960
Cu	 0.0270	 -0.0610
Cv	 0.0020	 -0.0450
Cz	 0.0940	 -0.0200