



Full wwPDB EM Validation Report ⓘ

Mar 27, 2026 – 04:48 PM UTC

PDB ID : 5SVA / pdb_00005sva
EMDB ID : EMD-8305
Title : Mediator-RNA Polymerase II Pre-Initiation Complex
Authors : Robinson, P.J.; Bushnell, D.A.; Kornberg, R.D.
Deposited on : 2016-08-05
Resolution : 15.30 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

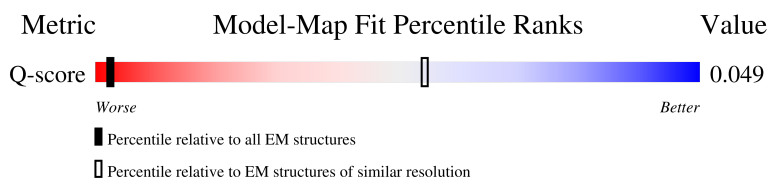
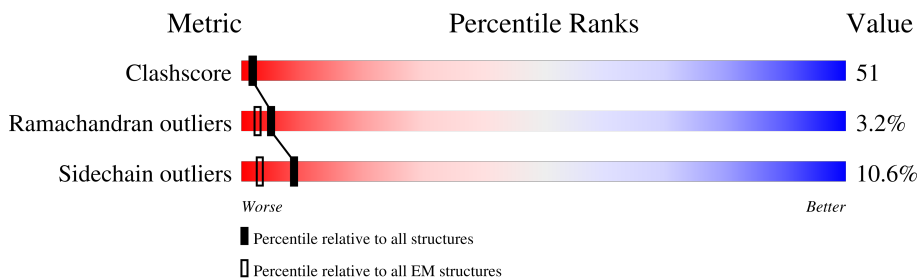
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 15.30 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.



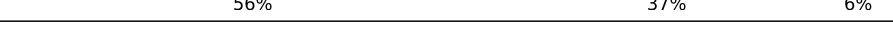
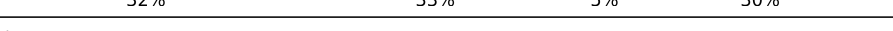
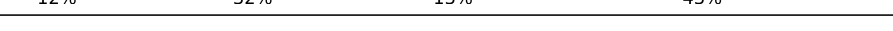
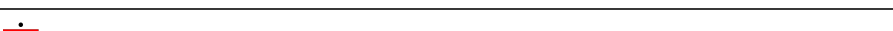
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	35 (14.90 - 15.60)

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	A	1733	
2	B	1224	
3	C	318	
4	D	221	

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Mol	Chain	Length	Quality of chain
5	E	215	
6	F	155	
7	G	171	
8	H	146	
9	I	122	
10	J	70	
11	K	120	
12	L	70	
13	M	295	
14	N	223	
15	O	115	
16	P	687	
17	Q	307	
18	R	210	
19	S	121	
20	T	284	
21	U	222	
22	V	149	
23	W	140	
24	X	127	
25	Y	778	
26	Z	843	
27	a	513	
28	b	72	
29	c	345	

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Mol	Chain	Length	Quality of chain
30	d	286	
31	e	122	
32	f	735	
33	g	400	
34	h	482	
35	i	328	
36	j	240	
37	k	25	
38	l	108	
39	m	108	
40	n	244	

2 Entry composition

There are 42 unique types of molecules in this entry. The entry contains 66759 atoms, of which 626 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 DNA-directed RNA polymerase II subunit RPB1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1422	Total	C	N	O	S	0	0
			11174	7036	1954	2122	62		

- Molecule 2 is a protein called DNA-directed RNA polymerase II subunit RPB2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1156	Total	C	N	O	S	0	0
			9140	5781	1606	1697	56		

- Molecule 3 is a protein called DNA-directed RNA polymerase II subunit RPB3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	266	Total	C	N	O	S	0	0
			2095	1317	348	417	13		

- Molecule 4 is a protein called DNA-directed RNA polymerase II subunit RPB4.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	178	Total	C	N	O	S	0	0
			1434	887	257	288	2		

- Molecule 5 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	214	Total	C	N	O	S	0	0
			1752	1111	309	321	11		

- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	84	Total	C	N	O	S	0	0
			679	434	115	127	3		

- Molecule 7 is a protein called DNA-directed RNA polymerase II subunit RPB7.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	171	Total	C	N	O	S	0	0
			1340	861	222	249	8		

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC3.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	133	Total	C	N	O	S	0	0
			1068	673	180	211	4		

- Molecule 9 is a protein called DNA-directed RNA polymerase II subunit RPB9.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	119	Total	C	N	O	S	0	0
			971	596	179	186	10		

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC5.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	65	Total	C	N	O	S	0	0
			532	339	93	94	6		

- Molecule 11 is a protein called DNA-directed RNA polymerase II subunit RPB11.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	115	Total	C	N	O	S	0	1
			920	590	157	171	2		

- Molecule 12 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC4.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	46	Total	C	N	O	S	0	0
			363	224	72	63	4		

- Molecule 13 is a protein called Mediator of RNA polymerase II transcription subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M	156	Total	C	N	O	S	0	0
			777	464	156	156	1		

- Molecule 14 is a protein called Mediator of RNA polymerase II transcription subunit 8.

Mol	Chain	Residues	Atoms				AltConf	Trace
14	N	168	Total	C	N	O	0	0
			891	542	172	177		

- Molecule 15 is a protein called Mediator of RNA polymerase II transcription subunit 11.

Mol	Chain	Residues	Atoms				AltConf	Trace
15	O	103	Total	C	N	O	0	0
			511	305	103	103		

- Molecule 16 is a protein called Mediator of RNA polymerase II transcription subunit 17.

Mol	Chain	Residues	Atoms				AltConf	Trace
16	P	487	Total	C	N	O	0	0
			2421	1447	487	487		

- Molecule 17 is a protein called Mediator of RNA polymerase II transcription subunit 18.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Q	253	Total	C	N	O	S	0	0
			1979	1255	330	384	10		

- Molecule 18 is a protein called Mediator of RNA polymerase II transcription subunit 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	R	209	Total	C	N	O	S	0	0
			1600	1011	269	315	5		

- Molecule 19 is a protein called Mediator of RNA polymerase II transcription subunit 22.

Mol	Chain	Residues	Atoms				AltConf	Trace
19	S	109	Total	C	N	O	0	0
			544	326	109	109		

- Molecule 20 is a protein called Mediator of RNA polymerase II transcription subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	T	91	Total	C	N	O	S	0	0
			756	475	125	154	2		

- Molecule 21 is a protein called Mediator of RNA polymerase II transcription subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	U	156	Total	C	N	O	S	0	0
			1310	847	220	238	5		

- Molecule 22 is a protein called Mediator of RNA polymerase II transcription subunit 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	V	85	Total	C	N	O	S	0	0
			720	451	133	135	1		

- Molecule 23 is a protein called Mediator of RNA polymerase II transcription subunit 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	W	119	Total	C	N	O	S	0	0
			965	608	160	193	4		

- Molecule 24 is a protein called Mediator of RNA polymerase II transcription subunit 31.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	X	92	Total	C	N	O	S	0	0
			767	506	116	141	4		

- Molecule 25 is a protein called DNA repair helicase RAD3.

Mol	Chain	Residues	Atoms						AltConf	Trace
25	Y	562	Total	C	H	N	O	S	0	0
			5175	2901	626	777	838	33		

- Molecule 26 is a protein called DNA repair helicase RAD25.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	Z	469	Total	C	N	O	S	0	0
			3769	2370	660	716	23		

- Molecule 27 is a protein called RNA polymerase II transcription factor B subunit 2.

Mol	Chain	Residues	Atoms				AltConf	Trace
27	a	62	Total	C	N	O	0	0
			518	334	83	101		

- Molecule 28 is a protein called RNA polymerase II transcription factor B subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	b	63	Total	C	N	O	S	0	0
			499	316	88	93	2		

- Molecule 29 is a protein called Transcription initiation factor IIB.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	c	189	Total	C	N	O	S	0	0
			1357	838	240	267	12		

- Molecule 30 is a protein called Transcription initiation factor IIA large subunit.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	d	116	Total	C	N	O	S	0	0
			956	599	159	195	3		

- Molecule 31 is a protein called Transcription initiation factor IIA subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	e	101	Total	C	N	O	S	0	0
			792	500	132	156	4		

- Molecule 32 is a protein called Transcription initiation factor IIF subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	f	149	Total	C	N	O	S	0	0
			1243	788	222	229	4		

- Molecule 33 is a protein called Transcription initiation factor IIF subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	g	172	Total	C	N	O	S	0	0
			1443	922	248	267	6		

- Molecule 34 is a protein called Transcription initiation factor IIE subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	h	118	Total	C	N	O	S	0	0
			960	625	158	172	5		

- Molecule 35 is a protein called Transcription initiation factor IIE subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	i	120	Total	C	N	O	S	0	0
			987	636	161	187	3		

- Molecule 36 is a protein called TATA-box-binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	j	180	Total	C	N	O	S	0	0
			1416	921	242	247	6		

- Molecule 37 is a protein called DNA-directed RNA polymerase II subunit RPB1.

Mol	Chain	Residues	Atoms				AltConf	Trace
37	k	25	Total	C	N	O	0	0
			184	116	25	43		

- Molecule 38 is a DNA chain called 108bp HIS4 Promoter Non-template Strand (-92/+16).

Mol	Chain	Residues	Atoms					AltConf	Trace
38	l	62	Total	C	N	O	P	0	0
			1271	609	222	378	62		

- Molecule 39 is a DNA chain called 108bp HIS4 Promoter Template Strand (+16/-92).

Mol	Chain	Residues	Atoms					AltConf	Trace
39	m	62	Total	C	N	O	P	0	0
			1271	607	236	366	62		

- Molecule 40 is a protein called Transcription initiation factor TFIID subunit 14.

Mol	Chain	Residues	Atoms		AltConf	Trace
40	n	200	Total	C	0	200
			200	200		

- Molecule 41 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
41	A	2	Total	Zn	0
			2	2	
41	B	1	Total	Zn	0
			1	1	
41	C	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
41	I	2	Total 2	Zn 2	0
41	J	1	Total 1	Zn 1	0
41	L	1	Total 1	Zn 1	0

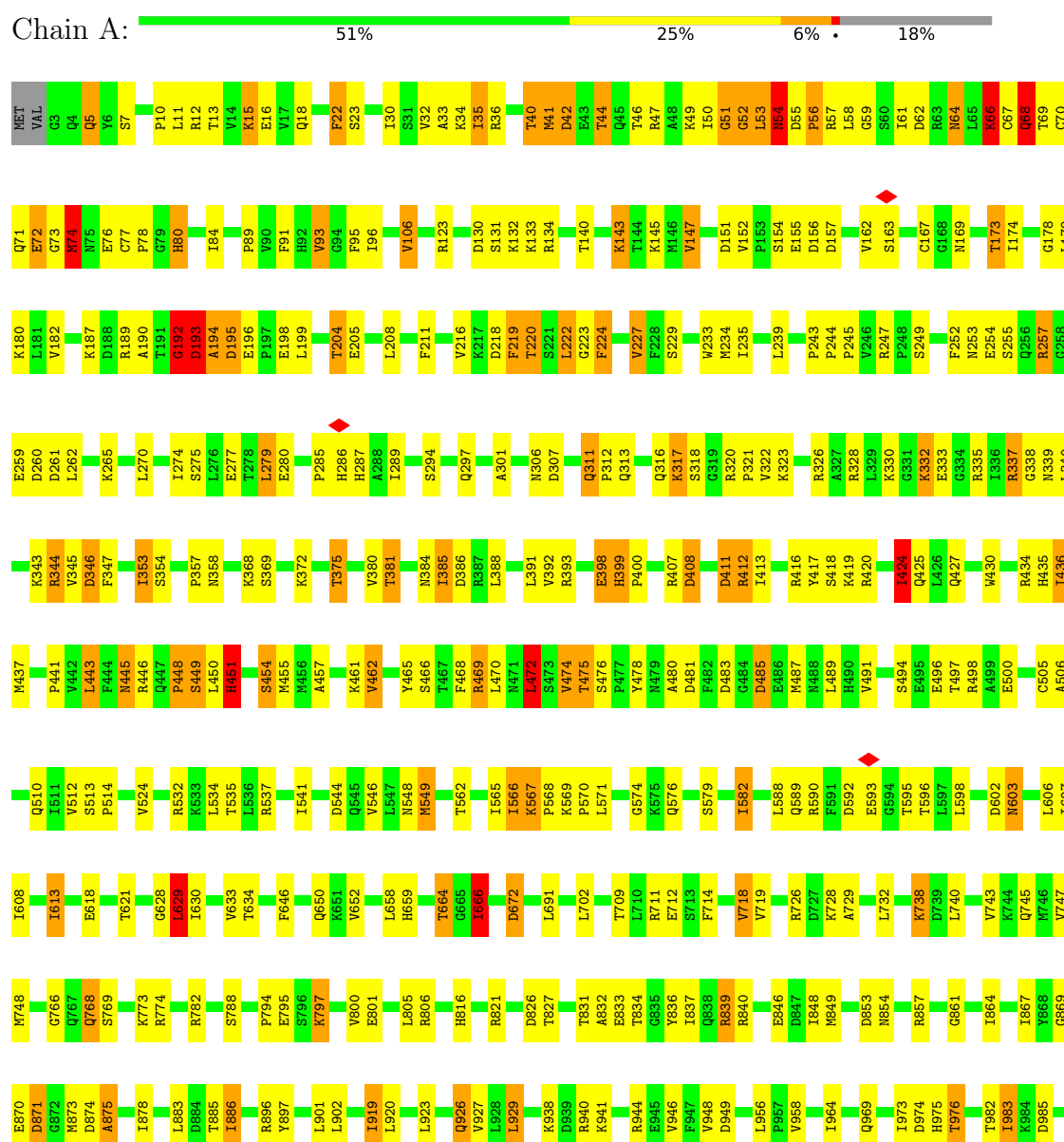
- Molecule 42 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
42	A	1	Total 1	Mg 1	0

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: DNA-directed RNA polymerase II subunit RPB1

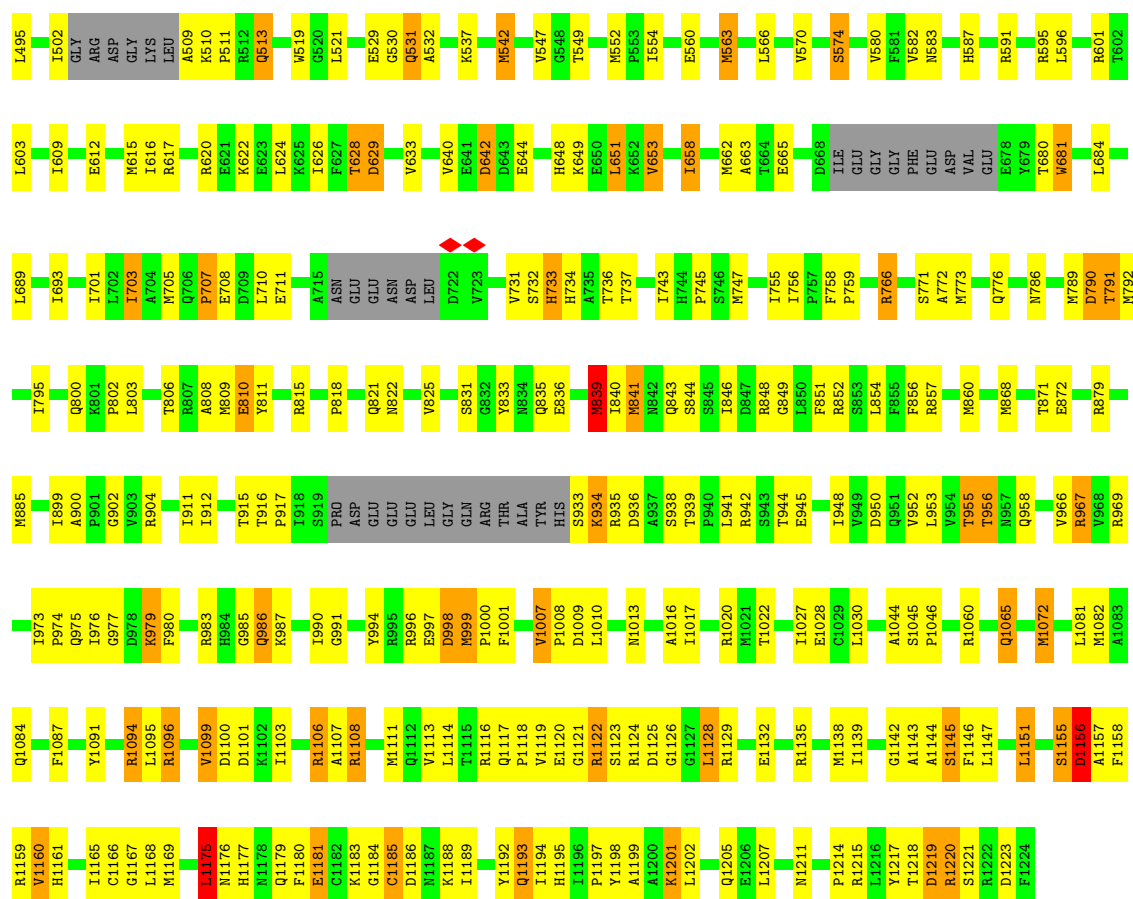


L993	K1092	L1197	M1312	T1405	GLU	PRO	PRO	ALA
Q994	K1093	K1205	E1315	V1406	SER	THR	THR	TYR
L998	M1094	K1206	E1316	E1407	GLY	SER	SER	SER
Y999	T1095	T1208	M1317	L1409	LEU	PRO	PRO	PRO
L1000	M1111	Q1218	D1323	A1414	VAL	THR	THR	GLN
R1001	K1112	Q1219	F1324	S1415	ASN	SER	SER	ASP
N1004	T1113	D1223	T1325	L1418	ASP	PRO	PRO	GLU
N1009	P1114	L1226	R1326	L1419	LEU	THR	THR	GLN
V1015	S1115	V1226	I1327	V1424	ASP	SER	PRO	LYS
T1016	T1117	D1231	T1328	S1425	VAL	THR	THR	ASN
L1017	V1118	D1232	T1329	E1426	ASP	THR	THR	GLU
F1018	Y1119	L1236	M1336	N1427	GLU	SER	SER	ASN
C1019	L1120	I1237	M1337	V1428	LEU	PRO	PRO	GLU
G1020	E1121	I1238	I1340	I1429	PRO	THR	THR	LYS
L1021	H1124	V1242	I1341	T1430	PHE	SER	SER	ASN
L1022	Q1130	V1243	G1344	G1431	SER	PRO	PRO	PRO
R1023	L1133	ARG	R1345	Q1432	LEU	THR	THR	TYR
S1024	L1134	LYS	L1348	M1433	VAL	SER	SER	SER
R1025	R1135	PRO	L1349	T1436	ASP	PRO	PRO	PRO
R1029	R1138	SER	Y1349	T1437	GLY	TYR	TYR	THR
R1030	I1138	LEU	V1352	T1438	ASN	PRO	PRO	SER
Y1035	T1142	ASP	V1355	F1441	ASP	THR	THR	THR
R1036	T1148	ALA	I1356	D1442	ALA	SER	SER	SER
L1046	I1149	GLU	V1363	M1443	MET	PRO	PRO	PRO
S1047	S1150	E1255	I1445	I1446	ALA	THR	THR	THR
V1057	E1151	E1256	R1366	D1447	GLY	SER	SER	SER
V1058	Y1154	D1257	V1372	L1450	PHE	PRO	PRO	PRO
E1062	T1161	M1259	D1373	V1451	THR	THR	THR	THR
M1063	Q1171	K1261	T1376	Y1453	ALA	SER	SER	SER
L1067	L1172	K1262	T1377	M1454	ALA	PRO	PRO	PRO
I1072	H1173	GLU	T1382	P1455	TYR	THR	THR	THR
G1073	F1174	T1266	R1386	GLN	GLY	PRO	PRO	PRO
E1074	S1175	E1269	G1388	LYS	ALA	SER	SER	SER
T1077	L1176	L1273	F1389	I1452	THR	THR	THR	THR
Q1078	ASP	L1279	N1390	GLU	THR	THR	THR	THR
M1079	GLU	I1279	R1391	ILE	PRO	PRO	PRO	PRO
L1080	ALA	E1280	S1392	GLU	PHE	THR	THR	THR
LEU	GLU	R1281	M1393	ASP	GLY	PRO	PRO	PRO
ASN	GLN	V1291	T1394	GLN	TYR	THR	THR	THR
THR	PHE	ASP	L1397	ASP	GLY	THR	THR	THR
THR	ASP	T1295	M1398	GLY	GLY	PRO	PRO	PRO
HIS	GLY	E1296	R1399	VAL	ALA	THR	THR	THR
PHE	GLY	E1297	C1400	THR	THR	THR	THR	THR
ALA	GLY	T1308	S1401	PRO	THR	PRO	PRO	PRO
GLY	L1193	D1309	F1402	TYR	THR	GLY	GLY	GLY
VAL	R1194	GLY	E1403	SER	THR	TYR	TYR	TYR
ALA	L1195	ALA	E1404	ASN	SER	PRO	PRO	PRO
SER	E1196				PHE	THR	THR	THR

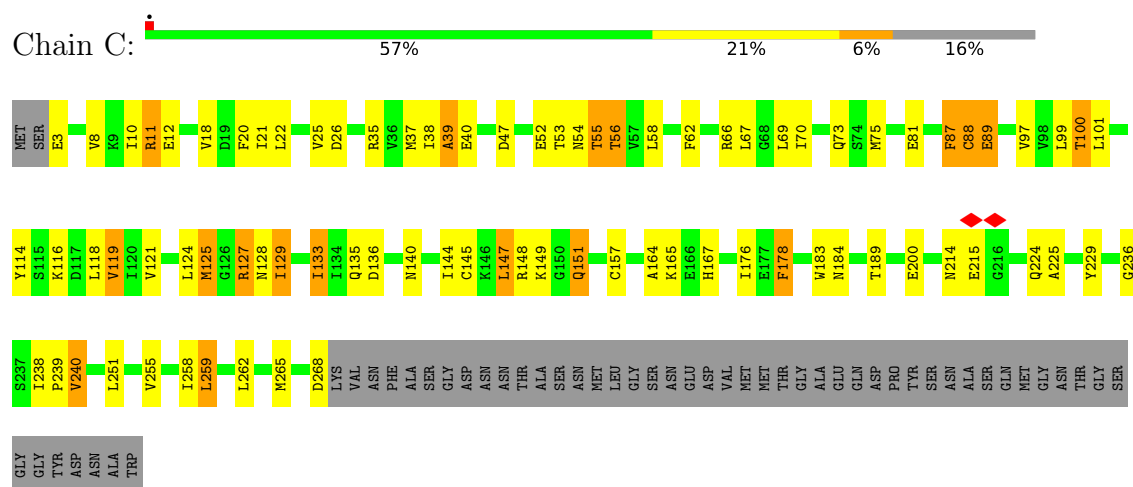
• Molecule 2: DNA-directed RNA polymerase II subunit RPB2

Chain B: 58% 29% 6% • 6%

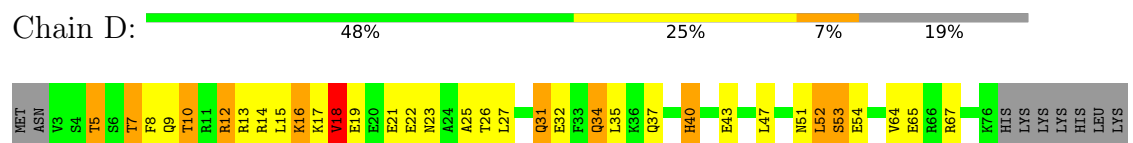
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SER	I95	M199	D295	Q394
ASP	V102	E204	E296	Q395
LEU	N103	I205	I297	K404
ALA	E104	E206	E298	R405
ASN	H110	G207	H300	L406
SER	A111	V211	D307	D407
GLU	L112	E216	L311	L408
LYS	N121	R217	F312	L416
TYR	L122	S218	M313	F417
ASP	S125	A219	L314	K418
PRO	L128	I222	K315	T419
THR	K134	F226	P316	T425
GLY	R135	A229	I324	F429
PHE	E138	P233	I334	R430
GLU	D141	I234	R337	T431
D290	VAL	A238	G338	M432
I25	PRO	E239	T339	Q433
I26	GLY	I240	D441	E438
D29	ARG	E241	L341	A439
S35	E146	G247	G342	H440
S36	L151	S248	K343	F442
R39	ILE	R249	K344	M449
E40	ALA	F250	K345	A450
K41	GLU	I251	E346	K451
G42	GLU	V256	K347	T454
L43	SER	K257	R348	L457
Q46	ASP	L258	Q350	L461
F54	GLU	R261	Y351	A462
T58	GLU	E262	I355	M465
L59	ASP	R267	L356	M466
Q60	SER	T268	Q357	E468
D61	GLU	K164	F360	G467
I62	SER	R169	H363	M469
I63	GLU	L170	I364	Q469
C64	SER	P171	T365	K470
E65	GLU	L174	Q366	K471
D66	ASP	I276	F370	A472
S67	SER	Q277	R476	M473
T68	GLU	K278	N178	M466
L69	GLU	I280	E183	E468
I70	GLU	P281	Y190	G467
L71	GLU	I282	K193	H363
E72	GLU	R287	E89	I364
Q73	GLU	I291	I90	T365
S81	GLU			Q366
R86	GLU			F370
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I90	GLU			N383
	GLU			R384
	GLU			L385
	GLU			L386
	GLU			L387

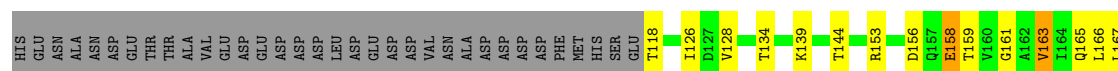


• Molecule 3: DNA-directed RNA polymerase II subunit RPB3

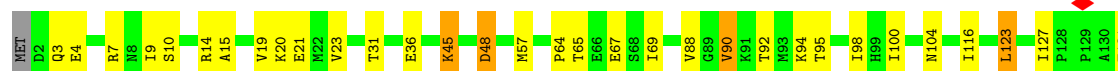


• Molecule 4: DNA-directed RNA polymerase II subunit RPB4

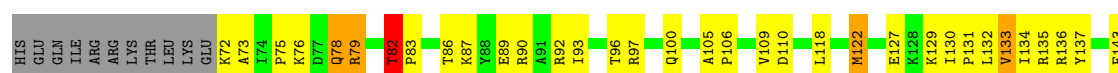
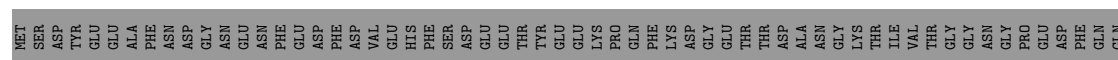
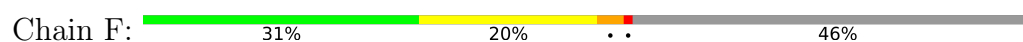




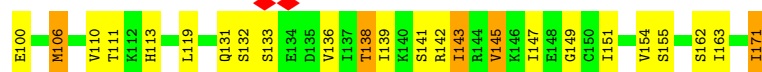
- Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1



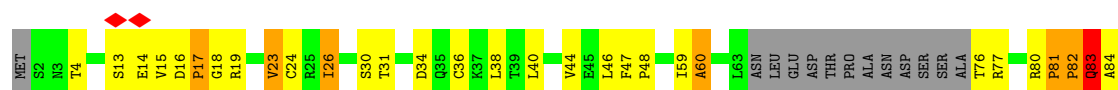
- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

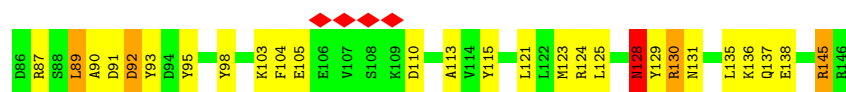


- Molecule 7: DNA-directed RNA polymerase II subunit RPB7

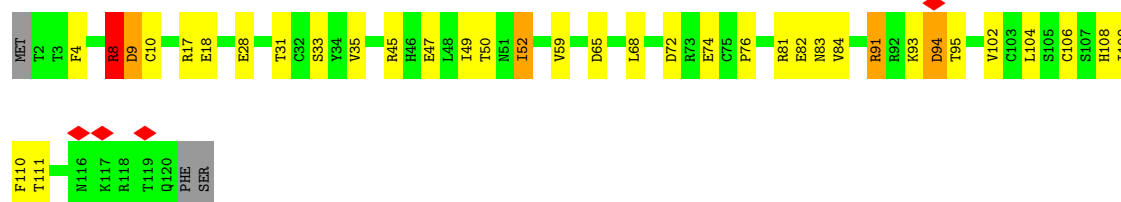


- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

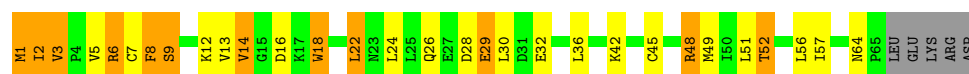




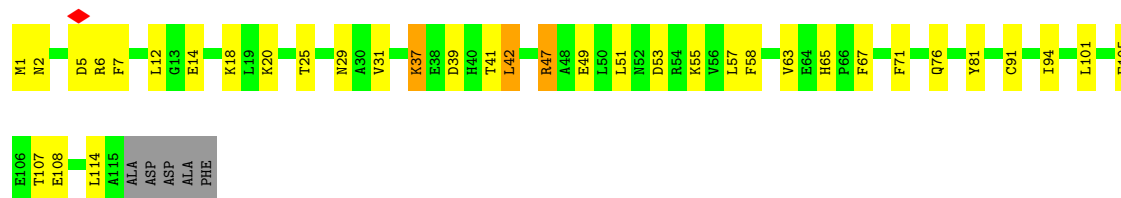
- Molecule 9: DNA-directed RNA polymerase II subunit RPB9



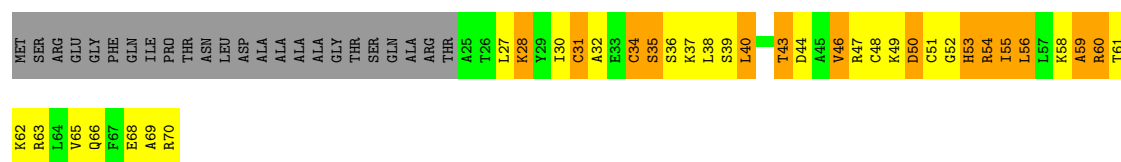
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5



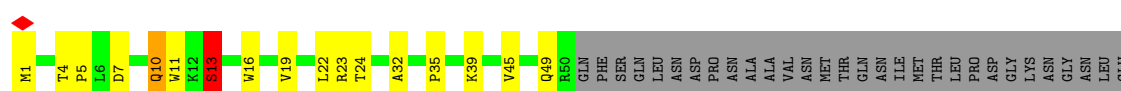
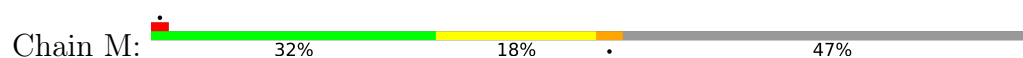
- Molecule 11: DNA-directed RNA polymerase II subunit RPB11

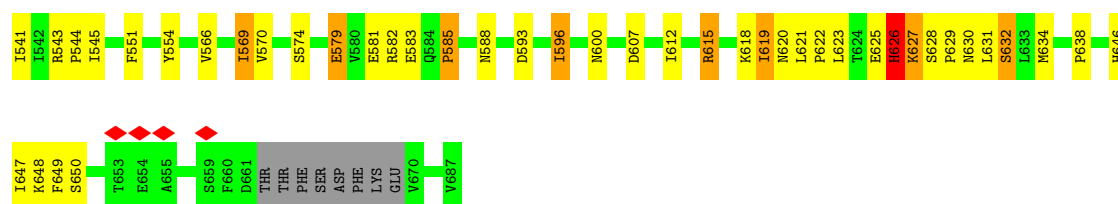


- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4



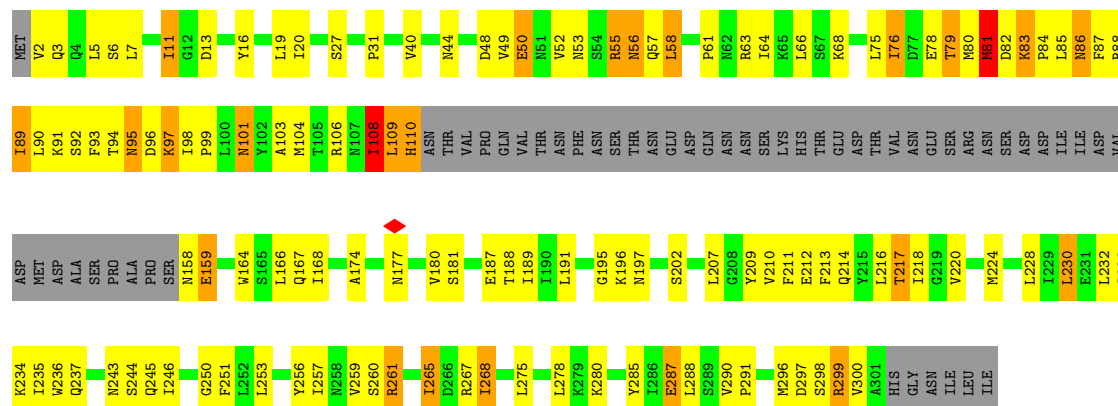
- Molecule 13: Mediator of RNA polymerase II transcription subunit 6





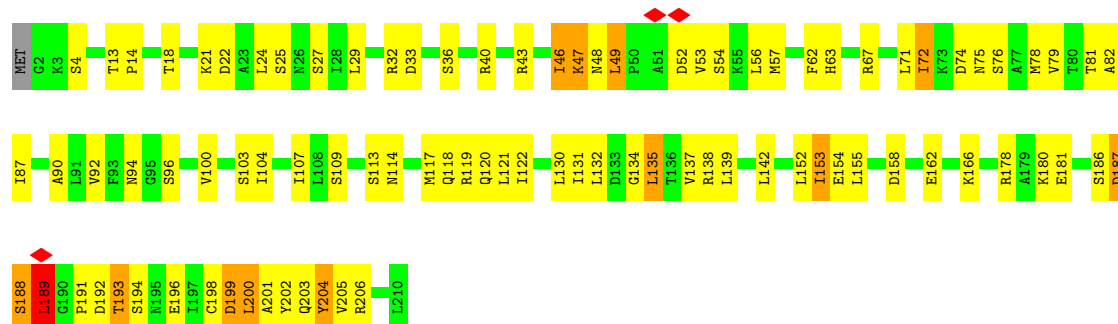
- Molecule 17: Mediator of RNA polymerase II transcription subunit 18

Chain Q: 42% 33% 7% 18%



- Molecule 18: Mediator of RNA polymerase II transcription subunit 20

Chain R: 56% 37% 6%



- Molecule 19: Mediator of RNA polymerase II transcription subunit 22

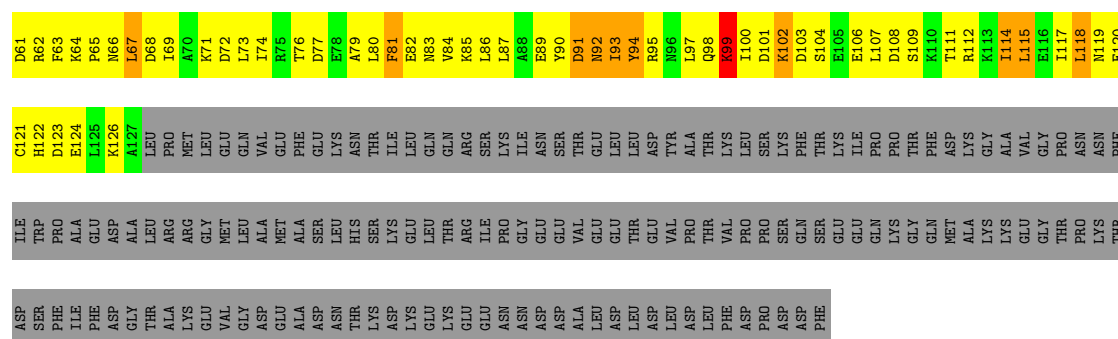
Chain S: 74% 13% 10%



- Molecule 20: Mediator of RNA polymerase II transcription subunit 4

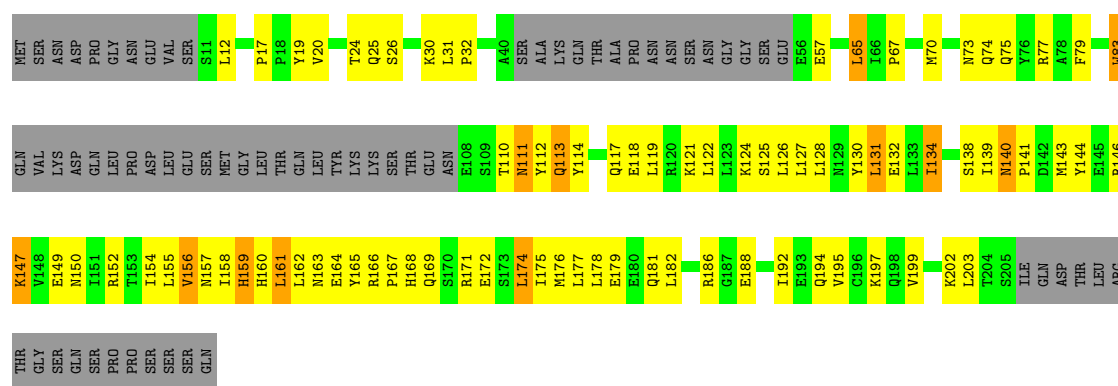
Chain T: 5% 23% 68%





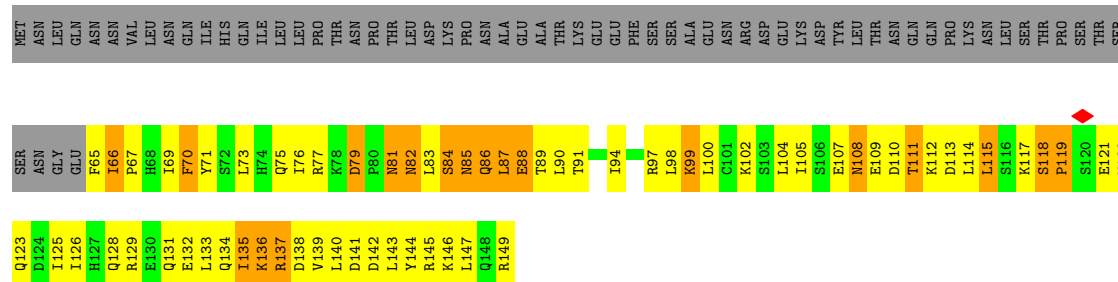
• Molecule 21: Mediator of RNA polymerase II transcription subunit 7

Chain U: 32% 33% 5% 30%



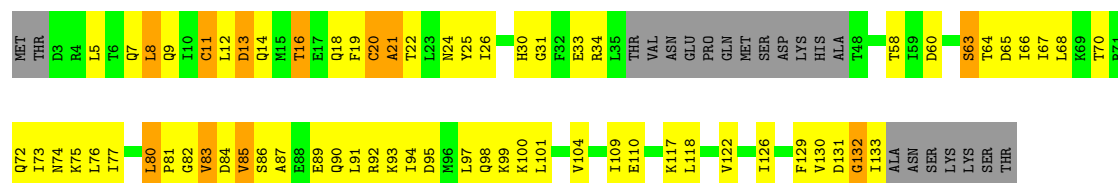
• Molecule 22: Mediator of RNA polymerase II transcription subunit 9

Chain V: 12% 32% 13% 43%



• Molecule 23: Mediator of RNA polymerase II transcription subunit 21

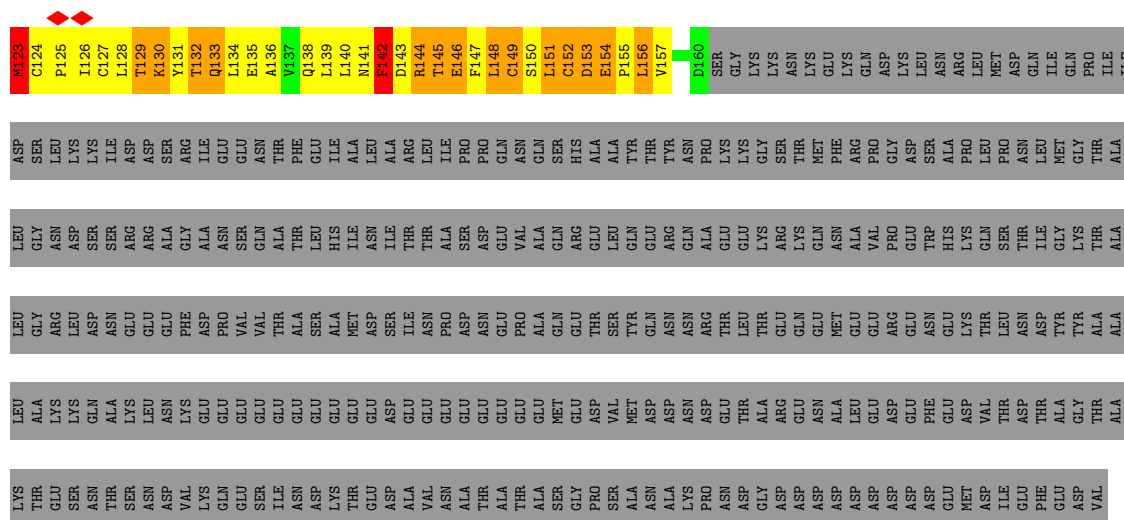
Chain W: 36% 41% 8% 15%



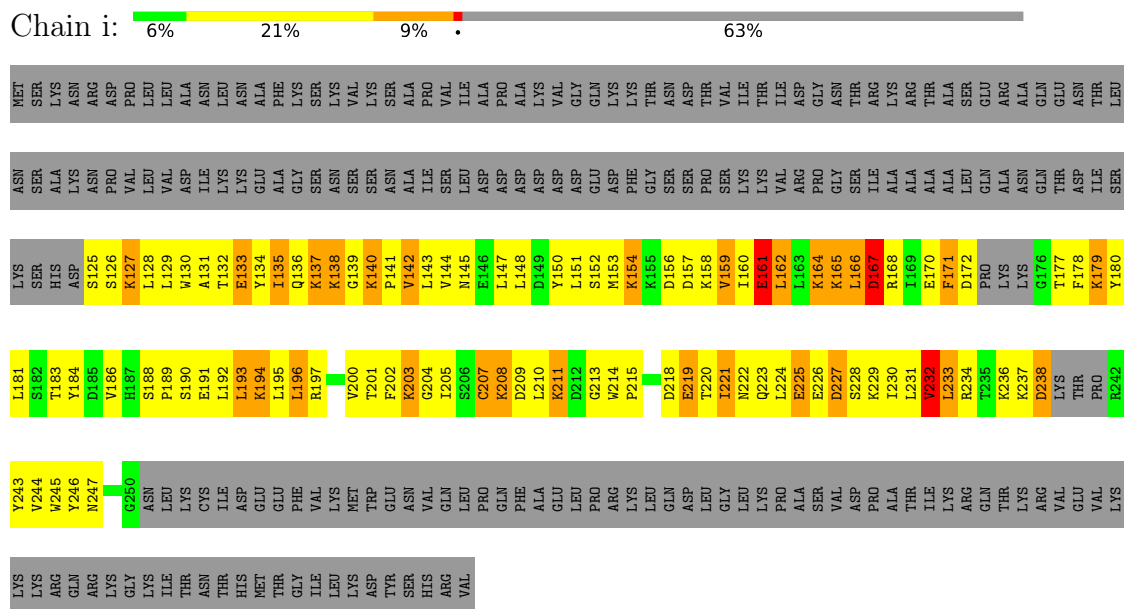
• Molecule 24: Mediator of RNA polymerase II transcription subunit 31







• Molecule 35: Transcription initiation factor IIE subunit beta



• Molecule 36: TATA-box-binding protein



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	170600	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TECNAI 20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	15	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	0.153	Depositor
Minimum map value	-0.044	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.010	Depositor
Recommended contour level	0.025	Depositor
Map size ($\text{\AA}$)	503.8, 503.8, 503.8	wwPDB
Map dimensions	220, 220, 220	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	2.29, 2.29, 2.29	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ZN

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	A	0.85	7/11374 (0.1%)	1.45	101/15384 (0.7%)
2	B	0.80	6/9317 (0.1%)	1.32	69/12567 (0.5%)
3	C	0.84	0/2133	1.42	15/2891 (0.5%)
4	D	0.87	2/1444 (0.1%)	1.61	20/1935 (1.0%)
5	E	0.82	0/1788	1.42	13/2406 (0.5%)
6	F	0.97	1/691 (0.1%)	1.39	5/933 (0.5%)
7	G	0.86	1/1368 (0.1%)	1.39	10/1844 (0.5%)
8	H	0.86	0/1086	1.43	15/1470 (1.0%)
9	I	0.83	0/989	1.36	7/1331 (0.5%)
10	J	0.91	0/541	1.60	8/727 (1.1%)
11	K	0.77	0/938	1.35	1/1267 (0.1%)
12	L	0.68	0/365	1.07	2/485 (0.4%)
13	M	1.05	2/775 (0.3%)	1.71	18/1077 (1.7%)
14	N	0.83	0/893	1.48	5/1237 (0.4%)
15	O	0.85	0/509	1.44	5/707 (0.7%)
16	P	1.02	3/2417 (0.1%)	1.57	40/3369 (1.2%)
17	Q	0.71	0/2014	1.06	6/2728 (0.2%)
18	R	0.68	0/1626	1.00	3/2205 (0.1%)
19	S	0.91	0/542	1.41	0/755
20	T	0.86	0/763	1.52	11/1025 (1.1%)
21	U	0.58	0/1339	0.97	9/1808 (0.5%)
22	V	0.95	1/732 (0.1%)	1.51	13/984 (1.3%)
23	W	0.61	0/973	1.06	6/1308 (0.5%)
24	X	0.47	0/789	0.90	2/1077 (0.2%)
25	Y	0.81	3/4616 (0.1%)	1.07	26/6196 (0.4%)
26	Z	1.09	2/3837 (0.1%)	1.44	46/5177 (0.9%)
27	a	0.73	0/527	0.78	0/704
28	b	0.70	0/504	0.79	0/679
29	c	0.43	0/1373	0.80	2/1863 (0.1%)
30	d	0.48	0/970	0.88	1/1310 (0.1%)
31	e	0.51	0/800	0.86	1/1080 (0.1%)
32	f	0.49	2/1267 (0.2%)	1.01	9/1700 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
33	g	0.98	3/1469 (0.2%)	1.02	9/1972 (0.5%)
34	h	1.34	0/978	1.57	9/1321 (0.7%)
35	i	0.45	0/1003	0.99	5/1345 (0.4%)
36	j	0.48	0/1443	0.89	1/1942 (0.1%)
37	k	0.98	0/194	1.06	0/270
38	l	0.24	0/1423	0.62	3/2195 (0.1%)
39	m	0.24	0/1427	0.66	4/2199 (0.2%)
All	All	0.81	33/67237 (0.0%)	1.28	500/91473 (0.5%)

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
2	B	0	1
13	M	0	2
16	P	0	3
17	Q	0	1
25	Y	0	1
26	Z	0	1
All	All	0	9

All (33) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	P	342	GLU	CA-C	10.55	1.61	1.52
1	A	1394	THR	C-N	-9.83	1.21	1.33
4	D	25	ALA	CA-C	8.40	1.62	1.53
25	Y	20	GLU	CA-C	8.23	1.63	1.52
33	g	88	HIS	CD2-NE2	8.19	1.46	1.37
32	f	140	HIS	CD2-NE2	8.13	1.46	1.37
32	f	134	HIS	CD2-NE2	8.12	1.46	1.37
33	g	220	HIS	CD2-NE2	8.11	1.46	1.37
2	B	851	PHE	C-N	7.72	1.43	1.33
1	A	549	MET	SD-CE	-7.50	1.60	1.79
2	B	218	SER	C-N	7.33	1.43	1.33
1	A	346	ASP	C-N	-6.89	1.24	1.33
1	A	1454	MET	CA-C	6.86	1.61	1.52
7	G	1	MET	C-N	6.46	1.42	1.33
6	F	122	MET	SD-CE	6.26	1.95	1.79
13	M	126	TRP	N-CA	5.80	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	18	VAL	CA-C	5.80	1.60	1.52
2	B	43	LEU	C-N	-5.72	1.25	1.33
25	Y	172	PRO	N-CD	5.68	1.55	1.47
2	B	839	MET	SD-CE	-5.64	1.65	1.79
25	Y	19	PRO	N-CD	5.58	1.55	1.47
16	P	343	ASP	N-CA	5.51	1.52	1.46
2	B	1017	ILE	CA-C	5.50	1.58	1.52
13	M	128	ILE	CA-C	5.49	1.59	1.52
1	A	437	MET	SD-CE	5.49	1.93	1.79
2	B	465	ASN	C-N	-5.34	1.26	1.33
1	A	399	HIS	N-CA	5.32	1.51	1.46
16	P	454	SER	CA-C	5.32	1.59	1.52
1	A	1057	VAL	C-N	5.27	1.40	1.33
22	V	66	ILE	CA-CB	-5.18	1.50	1.53
26	Z	493	VAL	CA-CB	-5.17	1.50	1.53
26	Z	408	ILE	CA-CB	-5.06	1.48	1.54
33	g	336	VAL	N-CA	5.05	1.50	1.46

All (500) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	369	ILE	CA-C-N	18.34	142.76	119.84
16	P	369	ILE	C-N-CA	18.34	142.76	119.84
14	N	98	LEU	CA-C-N	15.70	139.46	119.84
14	N	98	LEU	C-N-CA	15.70	139.46	119.84
26	Z	505	ILE	CB-CA-C	-15.55	91.62	110.91
1	A	1394	THR	CA-C-N	14.00	133.40	120.10
1	A	1394	THR	C-N-CA	14.00	133.40	120.10
13	M	97	TYR	CA-C-N	13.99	137.33	119.84
13	M	97	TYR	C-N-CA	13.99	137.33	119.84
4	D	26	THR	N-CA-C	-11.85	96.19	112.30
26	Z	476	PHE	N-CA-C	-10.60	99.73	111.28
13	M	4	THR	CA-C-N	10.09	132.46	119.84
13	M	4	THR	C-N-CA	10.09	132.46	119.84
16	P	343	ASP	N-CA-C	10.03	121.80	111.07
16	P	526	SER	CA-C-N	9.98	132.32	119.84
16	P	526	SER	C-N-CA	9.98	132.32	119.84
39	m	122	DG	C2'-C3'-O3'	-9.98	96.53	111.50
2	B	296	GLU	N-CA-C	-9.78	99.66	111.69
8	H	92	ASP	N-CA-C	-9.77	101.58	112.72
39	m	121	DT	C2'-C3'-O3'	-9.74	96.89	111.50
3	C	39	ALA	N-CA-C	9.57	125.75	112.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	Y	334	PHE	N-CA-C	9.46	121.59	111.28
2	B	628	THR	CA-C-N	9.43	135.36	121.31
2	B	628	THR	C-N-CA	9.43	135.36	121.31
25	Y	433	PRO	CA-N-CD	-9.39	98.86	112.00
10	J	5	VAL	N-CA-C	-9.38	97.48	109.58
39	m	120	DG	C2'-C3'-O3'	-9.35	97.47	111.50
25	Y	552	SER	N-CA-C	9.35	123.72	111.75
1	A	346	ASP	O-C-N	-9.32	110.65	122.20
16	P	342	GLU	N-CA-C	9.18	124.71	112.13
33	g	128	VAL	N-CA-C	9.00	119.03	110.30
4	D	25	ALA	CA-C-N	8.89	136.98	122.14
4	D	25	ALA	C-N-CA	8.89	136.98	122.14
34	h	142	PHE	CA-CB-CG	-8.75	105.05	113.80
26	Z	450	SER	N-CA-C	-8.75	101.65	111.71
8	H	81	PRO	N-CA-C	8.72	121.34	110.70
34	h	25	PHE	CA-CB-CG	-8.66	105.14	113.80
32	f	129	PRO	CA-N-CD	-8.64	99.90	112.00
34	h	15	PHE	CA-CB-CG	-8.52	105.28	113.80
13	M	39	LYS	N-CA-C	8.43	121.22	111.11
25	Y	493	LEU	C-N-CD	-8.43	90.45	125.00
2	B	1122	ARG	CA-C-N	8.42	131.91	120.54
2	B	1122	ARG	C-N-CA	8.42	131.91	120.54
25	Y	533	THR	C-N-CD	-8.40	90.57	125.00
32	f	349	PRO	CA-N-CD	-8.32	100.35	112.00
22	V	85	ASN	N-CA-C	-8.30	102.24	111.28
38	l	48	DT	C2'-C3'-O3'	-8.20	99.20	111.50
4	D	54	GLU	N-CA-C	-8.17	102.45	111.36
26	Z	477	LEU	CA-C-N	-8.12	106.04	121.54
26	Z	477	LEU	C-N-CA	-8.12	106.04	121.54
25	Y	436	ARG	N-CA-C	8.08	122.26	109.50
13	M	129	ARG	N-CA-C	8.07	121.33	109.07
8	H	129	TYR	N-CA-C	8.05	119.69	111.07
16	P	621	LEU	N-CA-C	8.01	115.20	108.07
26	Z	498	PHE	CA-CB-CG	-7.99	105.81	113.80
32	f	102	PRO	CA-N-CD	-7.96	100.86	112.00
13	M	87	ASP	CA-C-N	7.91	129.73	119.84
13	M	87	ASP	C-N-CA	7.91	129.73	119.84
26	Z	502	VAL	CB-CA-C	-7.87	101.71	112.02
1	A	194	ALA	CA-C-N	7.87	135.86	121.70
1	A	194	ALA	C-N-CA	7.87	135.86	121.70
23	W	20	CYS	N-CA-C	-7.83	104.33	114.04
32	f	112	GLU	N-CA-C	-7.75	103.28	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	T	93	ILE	N-CA-CB	7.74	120.15	110.47
1	A	143	LYS	CA-C-N	7.72	130.63	120.28
1	A	143	LYS	C-N-CA	7.72	130.63	120.28
4	D	31	GLN	N-CA-C	-7.66	103.02	111.36
23	W	8	LEU	N-CA-C	-7.58	101.45	111.24
13	M	169	ILE	N-CA-C	-7.58	103.41	110.53
2	B	629	ASP	CA-CB-CG	7.56	120.16	112.60
1	A	485	ASP	CA-CB-CG	7.53	120.13	112.60
2	B	340	ALA	CA-C-N	7.48	135.83	121.54
2	B	340	ALA	C-N-CA	7.48	135.83	121.54
34	h	20	PHE	CA-CB-CG	-7.42	106.38	113.80
16	P	457	VAL	N-CA-C	7.41	124.75	109.34
16	P	356	ASN	N-CA-C	7.41	121.27	108.76
20	T	115	LEU	CB-CA-C	-7.36	98.57	110.79
26	Z	647	ASP	CA-CB-CG	-7.36	105.24	112.60
2	B	736	THR	N-CA-C	-7.33	104.19	113.72
16	P	459	ILE	N-CA-C	7.32	118.42	107.51
1	A	998	LEU	N-CA-C	7.30	120.57	108.96
25	Y	551	VAL	O-C-N	7.29	128.94	121.87
2	B	1169	MET	CA-C-N	7.26	130.99	120.38
2	B	1169	MET	C-N-CA	7.26	130.99	120.38
3	C	62	PHE	CA-C-N	7.22	129.66	120.56
3	C	62	PHE	C-N-CA	7.22	129.66	120.56
10	J	9	SER	N-CA-C	7.16	118.73	111.07
25	Y	453	PHE	N-CA-C	-7.15	95.05	107.49
6	F	87	LYS	CA-C-N	7.14	129.85	120.28
6	F	87	LYS	C-N-CA	7.14	129.85	120.28
22	V	87	LEU	CB-CA-C	-7.14	98.54	110.68
8	H	128	ASN	CA-C-N	7.12	129.70	120.44
8	H	128	ASN	C-N-CA	7.12	129.70	120.44
7	G	34	VAL	N-CA-C	7.06	117.67	110.82
32	f	135	LEU	C-N-CD	-7.02	96.21	125.00
26	Z	484	PHE	CA-CB-CG	-7.00	106.80	113.80
3	C	183	TRP	N-CA-C	-6.99	97.84	109.24
13	M	127	VAL	N-CA-C	6.99	120.50	108.90
26	Z	632	PRO	N-CA-CB	6.99	109.96	103.39
26	Z	451	GLY	CA-C-N	-6.97	110.39	120.29
26	Z	451	GLY	C-N-CA	-6.97	110.39	120.29
26	Z	465	ASN	CA-CB-CG	-6.97	105.63	112.60
33	g	127	LYS	N-CA-C	-6.94	104.12	112.59
1	A	399	HIS	N-CA-C	6.90	122.14	112.75
16	P	612	ILE	CA-C-N	6.86	126.82	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	612	ILE	C-N-CA	6.86	126.82	119.28
4	D	51	ASN	CA-CB-CG	6.85	119.45	112.60
13	M	139	VAL	N-CA-C	6.84	118.57	108.65
26	Z	493	VAL	CB-CA-C	-6.78	107.16	114.35
16	P	533	LEU	N-CA-C	6.74	121.74	112.04
7	G	2	PHE	CA-CB-CG	6.73	120.53	113.80
10	J	18	TRP	N-CA-C	6.66	118.42	111.03
25	Y	474	ASN	N-CA-C	6.64	120.75	112.24
20	T	92	ASN	CA-CB-CG	-6.64	105.96	112.60
16	P	570	VAL	N-CA-C	6.62	120.95	112.67
26	Z	492	VAL	CA-C-N	6.61	124.41	120.24
26	Z	492	VAL	C-N-CA	6.61	124.41	120.24
2	B	1181	GLU	N-CA-C	6.61	124.88	110.80
1	A	219	PHE	CA-CB-CG	6.59	120.39	113.80
26	Z	469	ASP	CA-CB-CG	-6.59	106.01	112.60
16	P	623	LEU	N-CA-C	6.58	119.07	109.07
2	B	339	THR	CA-C-N	6.55	134.04	121.54
2	B	339	THR	C-N-CA	6.55	134.04	121.54
16	P	486	ILE	N-CA-C	6.53	117.92	107.73
18	R	46	ILE	N-CA-C	6.52	117.22	107.51
2	B	294	ASP	CA-CB-CG	6.50	119.10	112.60
3	C	40	GLU	N-CA-C	6.49	121.35	113.17
1	A	897	TYR	N-CA-C	6.48	121.32	113.41
16	P	538	ASP	N-CA-C	-6.47	103.26	112.13
3	C	178	PHE	CA-CB-CG	6.47	120.27	113.80
4	D	163	VAL	CA-C-N	6.46	129.31	120.46
4	D	163	VAL	C-N-CA	6.46	129.31	120.46
1	A	472	LEU	N-CA-C	6.45	119.12	111.71
2	B	1156	ASP	N-CA-C	6.44	124.52	110.80
1	A	223	GLY	CA-C-N	6.43	133.83	121.54
1	A	223	GLY	C-N-CA	6.43	133.83	121.54
25	Y	451	GLU	N-CA-C	6.43	119.19	109.41
2	B	1219	ASP	CA-CB-CG	6.43	119.03	112.60
16	P	569	ILE	CA-C-N	6.42	126.60	120.43
16	P	569	ILE	C-N-CA	6.42	126.60	120.43
7	G	65	ASP	CA-CB-CG	6.41	119.01	112.60
22	V	108	ASN	CA-CB-CG	-6.41	106.19	112.60
20	T	94	TYR	CA-CB-CG	-6.41	102.36	113.90
21	U	140	ASN	CA-C-N	6.41	127.85	119.84
21	U	140	ASN	C-N-CA	6.41	127.85	119.84
3	C	135	GLN	CA-C-N	6.40	131.54	121.56
3	C	135	GLN	C-N-CA	6.40	131.54	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	790	ASP	CA-CB-CG	6.39	119.00	112.60
3	C	200	GLU	N-CA-C	6.38	118.32	111.36
1	A	62	ASP	N-CA-C	6.38	120.35	111.74
26	Z	434	ASN	CA-CB-CG	-6.37	106.23	112.60
26	Z	452	LEU	N-CA-CB	6.37	119.59	110.16
4	D	31	GLN	CA-C-N	6.37	128.81	120.28
4	D	31	GLN	C-N-CA	6.37	128.81	120.28
2	B	818	PRO	N-CA-C	6.36	120.13	111.22
2	B	1177	HIS	N-CA-C	-6.36	105.56	113.38
3	C	89	GLU	N-CA-C	-6.36	96.70	108.02
14	N	26	ASN	N-CA-C	6.31	118.89	108.99
13	M	163	SER	CA-C-N	6.30	127.72	119.84
13	M	163	SER	C-N-CA	6.30	127.72	119.84
16	P	493	LEU	CA-C-N	6.30	127.72	119.84
16	P	493	LEU	C-N-CA	6.30	127.72	119.84
25	Y	337	ARG	N-CA-C	6.25	118.36	108.79
36	j	172	LEU	N-CA-C	6.25	117.76	111.07
33	g	66	ARG	N-CA-C	-6.25	105.24	112.92
1	A	398	GLU	CA-C-O	-6.24	114.76	121.56
1	A	123	ARG	CA-C-N	6.23	128.91	120.44
1	A	123	ARG	C-N-CA	6.23	128.91	120.44
1	A	169	ASN	N-CA-C	6.21	119.05	110.35
1	A	411	ASP	CA-C-N	6.21	130.38	121.50
1	A	411	ASP	C-N-CA	6.21	130.38	121.50
2	B	1180	PHE	CA-CB-CG	-6.21	107.59	113.80
1	A	408	ASP	CA-C-N	6.19	130.60	120.63
1	A	408	ASP	C-N-CA	6.19	130.60	120.63
26	Z	446	PHE	CA-CB-CG	-6.18	107.62	113.80
10	J	14	VAL	CB-CA-C	6.18	117.29	110.62
16	P	607	ASP	N-CA-C	6.15	117.65	111.07
2	B	363	HIS	N-CA-C	-6.13	102.59	110.19
11	K	53	ASP	CA-CB-CG	6.12	118.72	112.60
4	D	188	ALA	N-CA-C	-6.11	105.08	112.54
16	P	570	VAL	CB-CA-C	-6.11	107.90	113.70
10	J	14	VAL	N-CA-C	-6.09	107.32	113.47
26	Z	529	PHE	CA-CB-CG	-6.08	107.72	113.80
7	G	106	MET	N-CA-C	6.07	119.56	110.14
12	L	31	CYS	N-CA-C	-6.07	100.85	109.96
4	D	18	VAL	CA-C-N	6.07	132.62	121.70
4	D	18	VAL	C-N-CA	6.07	132.62	121.70
9	I	8	ARG	N-CA-C	-6.04	100.16	109.76
2	B	338	GLY	CA-C-N	6.02	132.54	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	338	GLY	C-N-CA	6.02	132.54	121.70
1	A	1376	THR	CB-CA-C	6.01	120.95	111.39
17	Q	76	ILE	N-CA-C	6.00	117.66	108.71
15	O	45	LYS	CA-C-N	6.00	125.39	118.85
15	O	45	LYS	C-N-CA	6.00	125.39	118.85
1	A	1112	LYS	N-CA-C	6.00	119.06	111.69
9	I	94	ASP	CA-C-N	5.98	132.96	121.54
9	I	94	ASP	C-N-CA	5.98	132.96	121.54
8	H	131	ASN	N-CA-C	-5.97	104.85	111.36
2	B	707	PRO	CA-C-N	5.97	128.60	120.54
2	B	707	PRO	C-N-CA	5.97	128.60	120.54
2	B	642	ASP	N-CA-C	-5.96	105.11	112.38
22	V	136	LYS	N-CA-CB	-5.94	100.22	110.32
34	h	22	GLY	CA-C-N	5.93	126.53	120.00
34	h	22	GLY	C-N-CA	5.93	126.53	120.00
16	P	612	ILE	CB-CA-C	-5.93	108.06	113.70
1	A	728	LYS	CA-C-N	5.92	128.21	120.28
1	A	728	LYS	C-N-CA	5.92	128.21	120.28
16	P	632	SER	N-CA-C	5.91	117.38	108.46
1	A	794	PRO	CA-C-N	5.91	128.79	120.28
1	A	794	PRO	C-N-CA	5.91	128.79	120.28
25	Y	19	PRO	N-CA-C	5.91	121.31	113.40
20	T	81	PHE	CA-CB-CG	-5.90	107.90	113.80
25	Y	533	THR	N-CA-C	5.89	122.83	109.81
5	E	171	LYS	N-CA-C	-5.89	100.69	110.17
5	E	123	LEU	CA-C-N	5.88	125.04	120.33
5	E	123	LEU	C-N-CA	5.88	125.04	120.33
26	Z	487	LEU	CB-CA-C	-5.88	101.21	110.79
16	P	627	LYS	N-CA-C	-5.88	98.28	110.80
35	i	227	ASP	CA-CB-CG	5.86	118.46	112.60
1	A	853	ASP	CA-CB-CG	5.86	118.46	112.60
2	B	791	THR	N-CA-C	-5.85	101.00	109.59
2	B	211	VAL	CB-CA-C	-5.84	102.43	110.96
13	M	13	SER	CA-C-N	5.84	127.14	119.84
13	M	13	SER	C-N-CA	5.84	127.14	119.84
5	E	95	THR	CA-C-N	5.83	128.10	120.28
5	E	95	THR	C-N-CA	5.83	128.10	120.28
1	A	30	ILE	CB-CA-C	-5.83	104.39	112.02
1	A	462	VAL	N-CA-CB	5.82	117.47	110.31
1	A	424	ILE	CA-C-N	-5.82	115.27	122.84
1	A	424	ILE	C-N-CA	-5.82	115.27	122.84
1	A	718	VAL	CA-C-N	5.82	128.74	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	718	VAL	C-N-CA	5.82	128.74	120.53
21	U	134	ILE	N-CA-C	5.82	116.55	110.62
22	V	81	ASN	N-CA-CB	5.82	115.44	109.51
1	A	871	ASP	CA-CB-CG	5.80	118.40	112.60
17	Q	81	MET	N-CA-C	-5.80	104.15	111.11
21	U	147	LYS	N-CA-C	-5.78	104.67	110.97
1	A	832	ALA	CA-C-N	5.78	127.95	120.44
1	A	832	ALA	C-N-CA	5.78	127.95	120.44
7	G	141	SER	N-CA-C	5.77	117.75	110.24
2	B	703	ILE	N-CA-C	5.76	117.29	108.71
29	c	30	TYR	CA-C-N	-5.76	114.45	120.38
29	c	30	TYR	C-N-CA	-5.76	114.45	120.38
1	A	800	VAL	CA-C-N	5.75	127.99	120.28
1	A	800	VAL	C-N-CA	5.75	127.99	120.28
15	O	114	SER	N-CA-C	5.75	115.99	107.88
26	Z	326	VAL	N-CA-C	-5.75	103.72	110.21
2	B	825	VAL	N-CA-C	5.74	116.12	107.80
25	Y	454	SER	N-CA-C	5.73	118.65	110.68
1	A	56	PRO	N-CA-C	-5.73	100.66	112.47
9	I	52	ILE	N-CA-CB	5.73	118.19	111.66
20	T	91	ASP	CA-CB-CG	-5.73	106.87	112.60
21	U	113	GLN	N-CA-C	-5.72	105.14	111.71
1	A	537	ARG	CA-C-N	5.71	128.71	120.38
1	A	537	ARG	C-N-CA	5.71	128.71	120.38
1	A	938	LYS	CA-C-N	5.71	128.25	120.54
1	A	938	LYS	C-N-CA	5.71	128.25	120.54
16	P	628	SER	N-CA-C	5.69	117.88	109.62
4	D	173	HIS	CB-CA-C	5.68	118.34	109.42
32	f	328	LYS	N-CA-C	-5.68	103.03	110.53
26	Z	374	PHE	CA-CB-CG	-5.68	108.12	113.80
2	B	732	SER	N-CA-C	5.67	116.86	108.86
1	A	833	GLU	CA-C-N	5.67	127.88	120.28
1	A	833	GLU	C-N-CA	5.67	127.88	120.28
26	Z	645	TYR	N-CA-C	5.65	121.21	113.97
25	Y	451	GLU	CA-C-N	5.65	132.34	121.54
25	Y	451	GLU	C-N-CA	5.65	132.34	121.54
1	A	602	ASP	CA-CB-CG	5.65	118.25	112.60
26	Z	309	ASP	CA-CB-CG	-5.64	106.96	112.60
15	O	65	GLN	N-CA-C	5.63	117.09	111.07
2	B	343	ILE	CA-C-N	5.62	132.27	121.54
2	B	343	ILE	C-N-CA	5.62	132.27	121.54
14	N	140	LEU	N-CA-C	5.61	122.75	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	66	GLY	CA-C-N	5.61	132.25	121.54
7	G	66	GLY	C-N-CA	5.61	132.25	121.54
1	A	1001	ARG	N-CA-C	5.60	120.77	113.88
26	Z	343	PHE	CA-CB-CG	-5.60	108.20	113.80
2	B	1013	ASN	N-CA-C	5.60	117.73	109.50
25	Y	550	ILE	N-CA-C	5.60	116.37	110.72
4	D	158	GLU	CA-C-N	5.60	127.71	120.44
4	D	158	GLU	C-N-CA	5.60	127.71	120.44
17	Q	233	GLN	N-CA-C	5.59	118.19	109.52
1	A	1344	GLY	CA-C-N	5.59	127.71	120.44
1	A	1344	GLY	C-N-CA	5.59	127.71	120.44
1	A	1138	ILE	N-CA-C	5.58	116.42	111.90
35	i	167	ASP	CA-CB-CG	-5.58	107.02	112.60
21	U	174	LEU	N-CA-C	-5.57	104.90	110.97
20	T	115	LEU	N-CA-CB	5.56	118.30	110.12
1	A	222	LEU	N-CA-C	-5.56	103.57	110.41
26	Z	472	LYS	N-CA-C	5.56	117.03	110.97
35	i	194	LYS	CG-CD-CE	5.55	124.06	111.30
17	Q	285	TYR	N-CA-C	-5.55	108.30	114.62
1	A	496	GLU	CA-C-N	5.54	127.71	120.28
1	A	496	GLU	C-N-CA	5.54	127.71	120.28
2	B	1009	ASP	N-CA-C	-5.54	105.64	112.90
1	A	346	ASP	CA-C-N	5.54	129.99	122.07
1	A	346	ASP	C-N-CA	5.54	129.99	122.07
26	Z	478	THR	CB-CA-C	5.54	121.44	110.42
24	X	51	SER	CA-C-N	5.53	125.24	119.82
24	X	51	SER	C-N-CA	5.53	125.24	119.82
35	i	213	GLY	N-CA-C	5.53	119.37	112.73
2	B	41	LYS	N-CA-C	5.53	117.39	111.36
1	A	229	SER	N-CA-C	5.52	117.70	107.60
2	B	1155	SER	CA-C-N	5.52	132.08	121.54
2	B	1155	SER	C-N-CA	5.52	132.08	121.54
26	Z	473	VAL	N-CA-C	5.51	115.99	107.78
15	O	91	LEU	N-CA-C	-5.51	106.56	113.72
34	h	123	MET	CG-SD-CE	-5.51	88.78	100.90
2	B	1017	ILE	N-CA-C	5.50	120.77	108.88
2	B	733	HIS	CA-C-N	5.50	127.92	120.38
2	B	733	HIS	C-N-CA	5.50	127.92	120.38
13	M	144	GLY	CA-C-N	5.50	125.59	119.32
13	M	144	GLY	C-N-CA	5.50	125.59	119.32
1	A	218	ASP	CA-CB-CG	5.50	118.10	112.60
1	A	1072	ILE	N-CA-C	-5.50	107.45	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	629	LEU	N-CA-C	-5.49	105.30	111.28
2	B	755	ILE	N-CA-C	-5.49	107.45	113.43
22	V	115	LEU	N-CA-C	-5.48	105.30	111.28
1	A	874	ASP	CA-CB-CG	5.48	118.08	112.60
2	B	1180	PHE	N-CA-C	5.47	119.62	112.13
2	B	1185	CYS	N-CA-C	-5.47	106.73	113.41
2	B	663	ALA	N-CA-C	-5.46	105.24	111.14
16	P	339	TYR	N-CA-C	5.46	116.52	107.73
20	T	55	LYS	CB-CA-C	-5.46	102.49	110.95
5	E	172	GLU	CA-C-N	5.46	127.90	120.54
5	E	172	GLU	C-N-CA	5.46	127.90	120.54
1	A	173	THR	CB-CA-C	5.45	120.47	111.31
16	P	347	THR	N-CA-C	5.44	119.08	107.70
22	V	70	PHE	CA-CB-CG	-5.44	108.36	113.80
23	W	117	LYS	N-CA-C	-5.44	105.27	111.14
34	h	50	ASN	CA-CB-CG	-5.43	107.17	112.60
1	A	1231	ASP	CA-C-N	5.43	128.01	120.63
1	A	1231	ASP	C-N-CA	5.43	128.01	120.63
1	A	1269	GLU	N-CA-C	5.43	118.36	111.69
6	F	82	THR	CB-CA-C	-5.42	100.95	109.52
25	Y	20	GLU	N-CA-C	-5.42	105.47	111.71
1	A	332	LYS	N-CA-C	-5.42	102.37	110.23
38	l	59	DT	C2'-C3'-O3'	5.42	119.62	111.50
2	B	43	LEU	N-CA-C	5.41	119.87	113.16
20	T	67	LEU	N-CA-C	-5.41	105.48	112.68
35	i	203	LYS	N-CA-C	5.41	117.18	111.28
4	D	214	LEU	N-CA-C	-5.39	106.38	113.12
26	Z	430	LEU	N-CA-C	-5.39	105.40	111.28
3	C	87	PHE	N-CA-C	5.38	119.84	113.16
25	Y	474	ASN	CA-C-N	-5.37	115.62	122.77
25	Y	474	ASN	C-N-CA	-5.37	115.62	122.77
26	Z	479	GLY	N-CA-C	5.37	125.91	113.18
1	A	224	PHE	CA-CB-CG	-5.37	108.43	113.80
26	Z	379	ALA	N-CA-C	-5.37	105.32	111.07
2	B	218	SER	O-C-N	-5.37	116.76	123.04
10	J	8	PHE	CA-CB-CG	5.37	119.17	113.80
2	B	1186	ASP	CA-CB-CG	5.37	117.97	112.60
10	J	16	ASP	CA-CB-CG	5.36	117.96	112.60
25	Y	696	TRP	CZ3-CH2-CZ2	5.35	128.46	121.50
8	H	137	GLN	CA-C-N	5.35	127.98	120.28
8	H	137	GLN	C-N-CA	5.35	127.98	120.28
1	A	1295	THR	CB-CA-C	5.35	121.08	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	510	GLN	N-CA-C	5.34	119.42	113.01
33	g	216	GLY	N-CA-C	5.34	118.28	110.38
8	H	128	ASN	CA-CB-CG	5.34	117.94	112.60
22	V	81	ASN	CA-C-N	5.34	130.58	121.29
22	V	81	ASN	C-N-CA	5.34	130.58	121.29
16	P	352	ARG	N-CA-C	5.33	117.51	108.02
2	B	1065	GLN	CB-CA-C	5.32	119.02	110.29
4	D	26	THR	CA-C-N	5.32	130.12	122.40
4	D	26	THR	C-N-CA	5.32	130.12	122.40
22	V	142	ASP	CA-CB-CG	-5.32	107.28	112.60
25	Y	383	LEU	N-CA-C	5.32	116.76	111.07
1	A	1161	THR	N-CA-C	5.32	118.15	109.59
16	P	513	VAL	N-CA-C	-5.32	105.20	111.00
23	W	85	VAL	N-CA-C	5.32	116.87	109.80
2	B	1099	VAL	N-CA-CB	5.31	116.41	110.51
16	P	279	TRP	N-CA-C	5.31	116.87	111.14
16	P	488	ASN	N-CA-C	5.30	116.90	108.79
14	N	139	LEU	N-CA-C	5.30	122.09	110.80
33	g	69	TRP	CZ3-CH2-CZ2	5.30	128.38	121.50
21	U	67	PRO	CA-C-N	5.29	123.53	119.66
21	U	67	PRO	C-N-CA	5.29	123.53	119.66
33	g	344	PRO	N-CA-C	-5.29	109.18	114.68
16	P	588	ASN	N-CA-C	5.29	117.14	108.52
33	g	81	TRP	CZ3-CH2-CZ2	5.29	128.37	121.50
18	R	194	SER	N-CA-C	-5.28	107.00	113.50
1	A	592	ASP	CA-CB-CG	5.28	117.88	112.60
32	f	361	TRP	CZ3-CH2-CZ2	5.27	128.35	121.50
2	B	222	ILE	CA-C-N	5.27	129.08	121.18
2	B	222	ILE	C-N-CA	5.27	129.08	121.18
1	A	535	THR	N-CA-C	5.26	118.55	112.97
20	T	114	ILE	CB-CA-C	-5.26	105.19	112.24
1	A	664	THR	CB-CA-C	5.25	118.77	109.89
1	A	1117	THR	CB-CA-C	5.25	120.05	111.23
1	A	451	HIS	N-CA-CB	-5.24	101.77	111.52
1	A	1266	THR	N-CA-C	-5.24	105.46	111.07
32	f	359	ASN	N-CA-C	5.24	117.05	110.24
1	A	1205	LYS	N-CA-C	-5.24	98.30	107.73
1	A	969	GLN	N-CA-CB	5.22	117.89	110.16
8	H	83	GLN	CA-C-N	5.22	130.71	120.99
8	H	83	GLN	C-N-CA	5.22	130.71	120.99
1	A	1079	MET	N-CA-C	5.22	117.03	108.52
18	R	72	ILE	N-CA-C	5.22	115.49	107.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	21	GLU	CA-C-N	5.22	127.27	120.28
5	E	21	GLU	C-N-CA	5.22	127.27	120.28
33	g	313	TRP	CZ3-CH2-CZ2	5.22	128.28	121.50
5	E	177	ARG	N-CA-C	5.21	117.47	109.07
1	A	666	ILE	N-CA-CB	5.21	119.56	110.65
16	P	579	GLU	N-CA-C	-5.21	107.10	112.93
2	B	628	THR	N-CA-C	-5.21	106.93	113.28
7	G	63	PRO	N-CA-C	5.20	123.18	112.47
17	Q	6	SER	N-CA-C	5.20	116.74	108.79
2	B	233	PRO	CA-C-N	5.19	128.82	121.66
2	B	233	PRO	C-N-CA	5.19	128.82	121.66
5	E	147	HIS	CA-C-N	5.19	129.44	121.19
5	E	147	HIS	C-N-CA	5.19	129.44	121.19
26	Z	449	GLU	N-CA-C	-5.19	99.75	110.80
38	l	48	DT	N1-C1'-C2'	5.18	121.27	113.50
23	W	21	ALA	N-CA-C	-5.18	106.80	113.01
22	V	81	ASN	CB-CA-C	-5.17	107.06	114.87
25	Y	444	ILE	N-CA-C	5.17	115.38	110.42
2	B	366	GLN	N-CA-C	-5.17	105.86	113.61
26	Z	452	LEU	CA-C-N	-5.16	115.53	122.91
26	Z	452	LEU	C-N-CA	-5.16	115.53	122.91
33	g	294	MET	N-CA-C	-5.16	105.83	113.16
3	C	262	LEU	CA-C-N	5.15	127.19	120.28
3	C	262	LEU	C-N-CA	5.15	127.19	120.28
1	A	408	ASP	CA-CB-CG	5.15	117.75	112.60
10	J	64	ASN	N-CA-C	5.15	121.19	109.81
16	P	620	ASN	N-CA-C	5.15	115.33	108.38
22	V	82	ASN	N-CA-C	5.15	116.57	110.19
26	Z	476	PHE	CA-CB-CG	-5.15	108.65	113.80
26	Z	376	ASN	N-CA-C	-5.14	107.67	114.31
26	Z	377	GLY	N-CA-C	-5.14	105.94	114.48
6	F	122	MET	CA-C-N	5.14	127.12	120.44
6	F	122	MET	C-N-CA	5.14	127.12	120.44
13	M	131	GLN	N-CA-C	5.14	121.74	110.80
3	C	225	ALA	N-CA-C	5.13	116.63	108.67
1	A	5	GLN	N-CA-C	5.13	117.15	110.43
1	A	478	TYR	CA-C-N	5.13	129.84	122.35
1	A	478	TYR	C-N-CA	5.13	129.84	122.35
17	Q	97	LYS	N-CA-C	5.13	118.48	110.32
9	I	93	LYS	CA-C-N	5.13	129.34	121.19
9	I	93	LYS	C-N-CA	5.13	129.34	121.19
9	I	110	PHE	CA-CB-CG	5.12	118.92	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	V	79	ASP	N-CA-C	5.12	121.13	109.81
3	C	136	ASP	CA-CB-CG	5.12	117.72	112.60
12	L	34	CYS	N-CA-C	-5.12	107.20	112.93
26	Z	337	VAL	N-CA-C	5.12	115.23	110.42
25	Y	463	ILE	N-CA-C	5.11	119.97	109.34
31	e	43	THR	N-CA-C	-5.11	105.41	111.69
25	Y	270	ARG	N-CA-C	5.11	118.04	110.48
26	Z	451	GLY	N-CA-C	-5.11	101.07	113.18
2	B	1096	ARG	N-CA-C	5.10	118.99	112.87
26	Z	431	GLN	N-CA-C	-5.10	105.92	113.16
16	P	596	ILE	N-CA-C	5.10	116.25	108.80
1	A	244	PRO	N-CA-C	5.10	116.92	110.70
2	B	810	GLU	CA-C-N	5.10	129.34	120.68
2	B	810	GLU	C-N-CA	5.10	129.34	120.68
20	T	99	LYS	N-CA-C	-5.09	105.42	110.97
23	W	87	ALA	N-CA-C	-5.09	105.82	112.23
1	A	193	ASP	CA-C-N	5.09	130.86	121.70
1	A	193	ASP	C-N-CA	5.09	130.86	121.70
2	B	472	ALA	CA-C-N	5.09	131.25	121.54
2	B	472	ALA	C-N-CA	5.09	131.25	121.54
26	Z	447	GLN	N-CA-C	5.08	121.63	110.80
1	A	106	VAL	N-CA-CB	-5.08	106.55	112.34
4	D	23	ASN	CA-CB-CG	5.08	117.68	112.60
26	Z	358	PRO	N-CA-C	-5.08	102.00	112.47
2	B	681	TRP	N-CA-C	-5.07	105.83	111.36
8	H	145	ARG	CA-C-N	5.07	130.83	121.70
8	H	145	ARG	C-N-CA	5.07	130.83	121.70
7	G	46	LEU	N-CA-C	5.07	117.78	111.24
1	A	474	VAL	CA-C-N	5.07	127.34	120.65
1	A	474	VAL	C-N-CA	5.07	127.34	120.65
16	P	646	HIS	N-CA-C	5.07	117.59	110.14
16	P	554	TYR	N-CA-C	-5.06	105.20	111.33
2	B	296	GLU	CA-C-N	5.06	126.94	120.56
2	B	296	GLU	C-N-CA	5.06	126.94	120.56
1	A	147	VAL	N-CA-C	5.06	115.20	108.27
1	A	1315	GLU	N-CA-C	5.06	116.60	111.14
7	G	18	PHE	CA-CB-CG	5.06	118.86	113.80
21	U	134	ILE	CB-CA-C	-5.05	105.32	112.14
5	E	48	ASP	CA-CB-CG	5.05	117.65	112.60
16	P	615	ARG	N-CA-C	5.05	121.55	110.80
34	h	21	TYR	CA-CB-CG	-5.04	104.82	113.90
1	A	192	GLY	CA-C-N	5.04	131.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	192	GLY	C-N-CA	5.04	131.17	121.54
1	A	875	ALA	N-CA-C	5.04	117.50	111.71
2	B	222	ILE	N-CA-C	5.04	115.11	107.75
1	A	466	SER	N-CA-C	5.03	120.31	113.37
32	f	358	TYR	N-CA-C	5.03	121.50	110.80
1	A	544	ASP	CA-C-N	5.02	127.42	120.29
1	A	544	ASP	C-N-CA	5.02	127.42	120.29
26	Z	698	ASP	N-CA-C	5.02	116.44	111.07
8	H	85	GLY	N-CA-C	-5.02	106.68	112.50
30	d	246	CYS	N-CA-C	5.02	114.45	107.73
2	B	998	ASP	CA-CB-CG	5.01	117.61	112.60
8	H	110	ASP	CA-CB-CG	5.01	117.61	112.60
39	m	124	DA	C4'-C3'-O3'	5.01	117.52	110.00
2	B	276	ILE	CA-C-N	5.01	127.30	120.54
2	B	276	ILE	C-N-CA	5.01	127.30	120.54
25	Y	632	SER	N-CA-C	-5.01	101.08	109.24
26	Z	307	ASP	CA-CB-CG	-5.00	107.60	112.60

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	43	LEU	Mainchain
13	M	10	GLN	Peptide
13	M	138	GLY	Peptide
16	P	471	ASN	Peptide
16	P	532	ASN	Peptide
16	P	626	HIS	Peptide
17	Q	101	ASN	Peptide
25	Y	335	LEU	Peptide
26	Z	661	SER	Peptide

5.2 Too-close contacts ⓘ

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	A	11174	0	11227	558	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	9140	0	9111	389	0
3	C	2095	0	2051	56	0
4	D	1434	0	1460	88	0
5	E	1752	0	1776	27	0
6	F	679	0	698	109	0
7	G	1340	0	1355	227	0
8	H	1068	0	1040	25	0
9	I	971	0	927	24	0
10	J	532	0	542	17	0
11	K	920	0	929	21	0
12	L	363	0	386	56	0
13	M	777	0	329	39	0
14	N	891	0	455	26	0
15	O	511	0	215	4	0
16	P	2421	0	1017	117	0
17	Q	1979	0	1977	250	0
18	R	1600	0	1614	105	0
19	S	544	0	241	12	0
20	T	756	0	761	272	0
21	U	1310	0	1339	153	0
22	V	720	0	725	288	0
23	W	965	0	987	140	0
24	X	767	0	752	47	0
25	Y	4549	626	4642	1311	0
26	Z	3769	0	3697	920	0
27	a	518	0	514	28	0
28	b	499	0	525	3	0
29	c	1357	0	1266	98	0
30	d	956	0	916	33	0
31	e	792	0	806	37	0
32	f	1243	0	1239	447	0
33	g	1443	0	1461	443	0
34	h	960	0	973	415	0
35	i	987	0	999	516	0
36	j	1416	0	1491	158	0
37	k	184	0	163	114	0
38	l	1271	0	705	183	0
39	m	1271	0	699	127	0
40	n	200	0	0	16	0
41	A	2	0	0	0	0
41	B	1	0	0	0	0
41	C	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	I	2	0	0	0	0
41	J	1	0	0	0	0
41	L	1	0	0	0	0
42	A	1	0	0	0	0
All	All	66133	626	62010	6543	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 51.

All (6543) 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)
25:Y:254:THR:HG23	25:Y:286:TYR:CE1	1.20	1.71
36:j:190:PHE:CE1	38:l:18:DA:C5	1.74	1.67
25:Y:352:ILE:HB	25:Y:380:ARG:CZ	1.23	1.66
26:Z:757:ARG:HH12	26:Z:760:LEU:CG	1.04	1.66
32:f:139:LEU:HD22	32:f:350:TRP:CH2	1.18	1.65
34:h:14:LYS:HD3	34:h:151:LEU:CB	1.25	1.65
25:Y:550:ILE:HG22	25:Y:554:TRP:CZ2	1.17	1.63
25:Y:639:LEU:HD12	25:Y:653:PHE:CE2	1.32	1.61
34:h:126:ILE:CG1	34:h:154:GLU:CG	1.75	1.61
32:f:350:TRP:CZ3	33:g:59:LEU:HD22	1.33	1.61
34:h:34:PHE:CE2	34:h:134:LEU:HD11	1.25	1.61
34:h:46:LEU:HD21	34:h:132:THR:CG2	1.22	1.61
32:f:376:LEU:CD2	32:f:386:MET:HG2	1.23	1.60
22:V:119:PRO:HA	22:V:122:TRP:CD1	1.14	1.60
32:f:139:LEU:HD22	32:f:350:TRP:CZ2	1.32	1.60
34:h:27:LEU:HD22	34:h:129:THR:CA	1.13	1.59
25:Y:518:ILE:CG2	25:Y:522:TYR:HE2	1.00	1.59
35:i:236:LYS:HD2	35:i:245:TRP:CZ2	1.35	1.59
34:h:126:ILE:CG1	34:h:154:GLU:HG2	1.29	1.58
32:f:139:LEU:HD13	32:f:350:TRP:CE2	1.35	1.58
34:h:34:PHE:CE2	34:h:134:LEU:CD1	1.80	1.58
36:j:116:PHE:CZ	38:l:23:DA:C2	1.89	1.58
26:Z:717:TYR:CE2	26:Z:718:TYR:CE1	1.89	1.58
26:Z:561:MET:CB	27:a:450:ARG:HH22	1.13	1.58
20:T:93:ILE:HD12	22:V:122:TRP:CE3	1.29	1.57
25:Y:416:PHE:CE2	25:Y:440:LEU:HD22	1.39	1.57
17:Q:81:MET:CE	17:Q:92:SER:HB3	1.21	1.57
17:Q:81:MET:HE2	17:Q:92:SER:CB	1.24	1.57
25:Y:639:LEU:CD2	25:Y:649:ARG:HD2	1.30	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1447:GLU:HA	7:G:22:MET:CE	1.32	1.57
35:i:148:LEU:CD1	35:i:154:LYS:NZ	1.68	1.57
2:B:868:MET:CE	29:c:182:ARG:HG2	1.34	1.56
25:Y:59:TYR:HA	25:Y:62:HIS:CD2	1.40	1.56
34:h:123:MET:CA	34:h:130:LYS:NZ	1.69	1.56
26:Z:757:ARG:NH2	26:Z:760:LEU:CD2	1.67	1.56
25:Y:254:THR:CG2	25:Y:286:TYR:HE1	1.06	1.55
32:f:108:LYS:HD2	33:g:95:ILE:CG1	1.23	1.55
20:T:122:HIS:HA	23:W:130:VAL:CG1	1.36	1.55
22:V:119:PRO:CA	22:V:122:TRP:CD1	1.82	1.55
25:Y:68:LYS:HD2	25:Y:228:LYS:CG	1.36	1.55
26:Z:585:PRO:CB	26:Z:756:ARG:NH1	1.69	1.55
33:g:63:ARG:CG	33:g:215:VAL:HA	1.27	1.54
33:g:118:HIS:CE1	33:g:120:TYR:CE2	1.93	1.54
20:T:93:ILE:CD1	22:V:122:TRP:HE3	1.14	1.54
1:A:1445:ILE:CG2	6:F:132:LEU:HD23	1.38	1.54
35:i:207:CYS:SG	35:i:208:LYS:HE2	1.46	1.54
25:Y:499:LYS:NZ	25:Y:522:TYR:CA	1.68	1.54
25:Y:393:VAL:HB	25:Y:437:PHE:CZ	1.38	1.53
25:Y:518:ILE:CG2	25:Y:522:TYR:CE2	1.90	1.53
1:A:1445:ILE:HB	7:G:18:PHE:CE2	1.42	1.52
25:Y:639:LEU:CD1	25:Y:653:PHE:CE2	1.89	1.52
22:V:146:LYS:HD3	23:W:129:PHE:CZ	1.42	1.52
25:Y:499:LYS:CE	25:Y:522:TYR:HA	1.38	1.52
25:Y:550:ILE:CG2	25:Y:554:TRP:HZ2	1.12	1.51
1:A:1443:VAL:HG12	7:G:61:ILE:CG2	1.37	1.51
17:Q:97:LYS:CE	17:Q:243:ASN:HB3	1.36	1.51
25:Y:37:ASN:CB	25:Y:456:VAL:HB	1.06	1.50
25:Y:200:ILE:CB	25:Y:226:VAL:CG2	1.84	1.50
25:Y:68:LYS:CD	25:Y:228:LYS:HG3	1.37	1.50
36:j:116:PHE:CE1	38:l:23:DA:C2	1.97	1.50
2:B:1185:CYS:SG	4:D:17:LYS:HD3	1.52	1.50
1:A:1447:GLU:CA	7:G:22:MET:HE1	1.38	1.49
25:Y:518:ILE:HG22	25:Y:522:TYR:CE2	1.39	1.49
25:Y:200:ILE:HB	25:Y:226:VAL:CB	1.22	1.49
25:Y:200:ILE:HB	25:Y:226:VAL:CG2	1.03	1.49
34:h:56:PRO:HG2	35:i:237:LYS:NZ	1.16	1.48
35:i:130:TRP:CD1	35:i:151:LEU:HG	1.48	1.48
25:Y:639:LEU:CG	25:Y:653:PHE:CE2	1.96	1.48
32:f:386:MET:CE	33:g:73:LEU:HD11	1.41	1.48
2:B:296:GLU:CD	32:f:126:LYS:HZ2	1.17	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:203:LYS:CE	35:i:247:ASN:ND2	1.70	1.47
2:B:1215:ARG:CD	4:D:15:LEU:CD1	1.91	1.47
4:D:165:GLN:CD	37:k:1:PRO:HD3	1.26	1.47
1:A:1445:ILE:HD13	7:G:18:PHE:CZ	1.49	1.47
20:T:122:HIS:HB3	23:W:131:ASP:C	1.06	1.47
20:T:122:HIS:CB	23:W:130:VAL:HG12	1.40	1.46
2:B:296:GLU:CD	32:f:126:LYS:NZ	1.68	1.46
24:X:52:PRO:HG2	37:k:24:TYR:CZ	1.50	1.46
32:f:139:LEU:HD13	32:f:350:TRP:CD2	1.51	1.46
6:F:92:ARG:NH2	7:G:63:PRO:CB	1.75	1.46
25:Y:440:LEU:HD21	25:Y:641:PHE:CB	1.43	1.46
33:g:312:TYR:CE2	35:i:151:LEU:HA	1.51	1.46
34:h:27:LEU:CD2	34:h:129:THR:HA	1.40	1.45
25:Y:257:LEU:CD2	25:Y:383:LEU:HD11	1.44	1.45
25:Y:393:VAL:HB	25:Y:437:PHE:CE2	1.49	1.45
1:A:1443:VAL:CG1	7:G:61:ILE:HG21	1.45	1.44
34:h:34:PHE:CE2	34:h:134:LEU:CG	1.98	1.44
6:F:92:ARG:CZ	7:G:63:PRO:HB2	1.44	1.44
32:f:103:LEU:HD21	33:g:98:ASN:ND2	1.11	1.44
17:Q:97:LYS:HE2	17:Q:243:ASN:CB	1.47	1.44
18:R:72:ILE:HG21	18:R:202:TYR:CE1	1.49	1.44
22:V:119:PRO:CB	22:V:122:TRP:HE1	1.31	1.44
26:Z:717:TYR:HE2	26:Z:718:TYR:CE1	1.28	1.44
26:Z:460:VAL:HG11	38:l:65:DA:C5'	1.47	1.43
35:i:130:TRP:C	35:i:151:LEU:HD11	1.40	1.43
25:Y:59:TYR:CA	25:Y:62:HIS:NE2	1.80	1.43
32:f:139:LEU:CD2	32:f:350:TRP:CZ2	2.00	1.43
33:g:312:TYR:HE2	35:i:151:LEU:CA	1.28	1.43
26:Z:757:ARG:NH1	26:Z:760:LEU:HG	1.17	1.43
1:A:195:ASP:HB2	39:m:117:DG:P	1.59	1.42
25:Y:357:LYS:HE3	25:Y:376:PHE:CD1	1.51	1.42
25:Y:420:ILE:CG1	25:Y:633:ARG:NH2	1.79	1.42
25:Y:200:ILE:CB	25:Y:226:VAL:HG21	1.42	1.42
33:g:350:THR:HG23	35:i:130:TRP:CZ3	1.54	1.42
1:A:1443:VAL:N	7:G:63:PRO:HG3	1.17	1.42
34:h:27:LEU:CD2	34:h:129:THR:CA	1.93	1.42
25:Y:190:LEU:HD13	25:Y:195:ILE:CD1	1.47	1.42
20:T:122:HIS:CA	23:W:130:VAL:CG1	1.96	1.42
25:Y:639:LEU:HD21	25:Y:649:ARG:CD	1.45	1.41
35:i:125:SER:N	35:i:127:LYS:NZ	1.67	1.41
24:X:52:PRO:CG	37:k:24:TYR:CE2	2.03	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:352:ILE:HB	25:Y:380:ARG:NH1	1.20	1.41
33:g:69:TRP:HB2	33:g:219:CYS:SG	1.60	1.41
26:Z:668:THR:HG21	26:Z:694:LYS:CB	1.50	1.41
32:f:376:LEU:CD2	32:f:386:MET:CG	1.96	1.41
34:h:52:THR:HB	35:i:237:LYS:CD	1.50	1.41
35:i:140:LYS:NZ	35:i:142:VAL:HG11	1.32	1.41
6:F:96:THR:HG23	7:G:65:ASP:C	1.42	1.41
32:f:102:PRO:CD	33:g:99:LYS:O	1.68	1.40
34:h:41:ASP:OD2	35:i:202:PHE:CE2	1.74	1.40
34:h:56:PRO:CG	35:i:237:LYS:HZ1	1.34	1.40
25:Y:499:LYS:NZ	25:Y:522:TYR:HA	1.10	1.40
20:T:122:HIS:CB	23:W:131:ASP:C	1.92	1.40
25:Y:550:ILE:CG2	25:Y:554:TRP:CZ2	1.85	1.40
25:Y:420:ILE:HG13	25:Y:633:ARG:NH2	1.13	1.39
35:i:131:ALA:N	35:i:151:LEU:HD11	1.31	1.39
32:f:127:ILE:HG21	32:f:361:TRP:CZ3	1.56	1.39
34:h:27:LEU:CD1	34:h:128:LEU:O	1.69	1.39
35:i:140:LYS:NZ	35:i:142:VAL:CG1	1.84	1.39
18:R:43:ARG:NH2	18:R:117:MET:HE1	1.35	1.39
25:Y:288:LYS:CG	25:Y:335:LEU:HB3	1.23	1.39
26:Z:585:PRO:HB2	26:Z:756:ARG:CZ	1.50	1.39
34:h:56:PRO:CG	35:i:237:LYS:NZ	1.86	1.39
25:Y:37:ASN:HB3	25:Y:456:VAL:CB	1.50	1.39
25:Y:493:LEU:CD2	25:Y:696:TRP:HE1	1.35	1.39
26:Z:561:MET:HB2	27:a:450:ARG:NH2	1.37	1.39
1:A:1447:GLU:OE2	7:G:26:LEU:HD11	1.22	1.38
17:Q:97:LYS:NZ	17:Q:244:SER:N	1.70	1.38
34:h:124:CYS:N	34:h:130:LYS:NZ	1.68	1.38
35:i:238:ASP:CG	35:i:243:TYR:CE1	2.00	1.38
16:P:240:SER:CA	37:k:6:THR:OG1	1.72	1.38
25:Y:135:ARG:NH2	25:Y:143:ARG:HE	1.19	1.38
25:Y:631:GLU:HA	25:Y:636:LYS:CE	1.52	1.38
26:Z:757:ARG:NH2	26:Z:760:LEU:HD23	1.09	1.38
32:f:149:PHE:CE1	32:f:338:ASN:OD1	1.77	1.38
1:A:1445:ILE:CD1	7:G:18:PHE:CZ	2.07	1.38
25:Y:349:LEU:CA	25:Y:380:ARG:NH2	1.86	1.37
35:i:136:GLN:HG2	35:i:180:TYR:CE2	1.59	1.37
35:i:203:LYS:HE2	35:i:247:ASN:ND2	1.08	1.38
25:Y:349:LEU:HA	25:Y:380:ARG:NH2	1.04	1.37
22:V:119:PRO:CA	22:V:122:TRP:NE1	1.83	1.37
21:U:24:THR:HA	37:k:24:TYR:CE1	1.60	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:25:GLN:HB2	37:k:24:TYR:CB	1.54	1.37
25:Y:639:LEU:HB2	25:Y:653:PHE:CD2	1.57	1.36
26:Z:757:ARG:CZ	26:Z:760:LEU:HD23	1.53	1.36
1:A:1445:ILE:CG1	7:G:18:PHE:CZ	2.09	1.36
25:Y:37:ASN:CB	25:Y:456:VAL:CB	2.02	1.36
25:Y:493:LEU:HD23	25:Y:696:TRP:NE1	1.34	1.36
2:B:1215:ARG:HD2	4:D:15:LEU:CD1	1.50	1.36
17:Q:97:LYS:HZ2	17:Q:244:SER:N	1.16	1.36
32:f:127:ILE:HG21	32:f:361:TRP:CH2	1.58	1.36
32:f:138:ARG:NH1	33:g:57:LEU:HB2	1.40	1.36
35:i:184:TYR:CE2	35:i:189:PRO:HG2	1.59	1.36
26:Z:460:VAL:CG1	38:l:65:DA:H5"	1.52	1.35
34:h:123:MET:HA	34:h:130:LYS:NZ	1.09	1.35
33:g:313:TRP:HB2	33:g:349:TYR:CE1	1.60	1.35
34:h:126:ILE:HG12	34:h:154:GLU:CG	1.39	1.35
16:P:315:SER:CB	16:P:426:ARG:H	1.37	1.35
17:Q:97:LYS:CD	17:Q:243:ASN:HB2	1.54	1.35
26:Z:585:PRO:HB2	26:Z:756:ARG:NH2	1.40	1.35
33:g:63:ARG:HG3	33:g:215:VAL:CA	1.57	1.35
35:i:164:LYS:HE2	35:i:165:LYS:CG	1.28	1.35
2:B:433:GLN:OE1	32:f:326:ARG:CD	1.73	1.35
36:j:190:PHE:CE1	38:l:18:DA:C4	2.12	1.35
1:A:1445:ILE:HD13	7:G:18:PHE:CE1	1.62	1.34
1:A:1451:VAL:CG1	7:G:20:PRO:HA	1.54	1.34
13:M:10:GLN:CB	13:M:160:ILE:O	1.71	1.34
17:Q:20:ILE:CD1	17:Q:87:PHE:CE2	2.10	1.34
22:V:146:LYS:CD	23:W:129:PHE:CZ	2.09	1.34
26:Z:561:MET:O	27:a:450:ARG:CZ	1.72	1.34
36:j:190:PHE:CD1	38:l:18:DA:C8	2.15	1.34
25:Y:124:ARG:NH2	25:Y:381:LEU:HD23	1.38	1.34
26:Z:560:PRO:O	26:Z:586:THR:HG21	1.21	1.34
25:Y:683:ASP:O	25:Y:686:PHE:CD2	1.79	1.34
33:g:74:PRO:HD2	33:g:222:CYS:O	1.19	1.34
25:Y:288:LYS:HG3	25:Y:335:LEU:CB	1.51	1.34
25:Y:420:ILE:HG13	25:Y:633:ARG:CZ	1.55	1.34
25:Y:526:LEU:HD23	25:Y:554:TRP:CH2	1.62	1.34
34:h:34:PHE:CD2	34:h:134:LEU:HD11	1.62	1.34
35:i:164:LYS:CE	35:i:165:LYS:CG	1.95	1.34
1:A:1445:ILE:CG2	6:F:132:LEU:CD2	2.06	1.34
1:A:1445:ILE:CB	7:G:18:PHE:CE2	2.10	1.34
25:Y:499:LYS:HB3	25:Y:522:TYR:CE1	1.64	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:561:MET:CB	27:a:450:ARG:NH2	1.89	1.33
33:g:74:PRO:CD	33:g:222:CYS:O	1.74	1.33
25:Y:229:ASP:CB	25:Y:453:PHE:HB3	1.57	1.33
32:f:120:LYS:NZ	33:g:72:ARG:HD2	1.40	1.33
32:f:348:TYR:HE2	32:f:393:TYR:CZ	1.45	1.33
26:Z:460:VAL:CB	38:l:65:DA:H4'	1.58	1.33
32:f:327:ARG:CZ	39:m:131:DG:OP2	1.76	1.33
33:g:310:TYR:HE1	35:i:134:TYR:CD1	1.45	1.33
26:Z:561:MET:O	27:a:450:ARG:NH1	1.62	1.33
35:i:170:GLU:O	35:i:179:LYS:CD	1.76	1.33
25:Y:103:PHE:CE1	25:Y:205:ILE:HD12	1.64	1.32
34:h:46:LEU:CD2	34:h:132:THR:CG2	2.04	1.32
34:h:123:MET:C	34:h:130:LYS:NZ	1.84	1.32
1:A:1443:VAL:H	7:G:63:PRO:CG	1.41	1.32
2:B:1215:ARG:NE	4:D:15:LEU:HD11	1.45	1.32
2:B:1220:ARG:C	4:D:14:ARG:NH2	1.86	1.32
17:Q:106:ARG:HH21	17:Q:214:GLN:CD	1.34	1.32
32:f:139:LEU:CD1	32:f:350:TRP:CE2	2.10	1.32
17:Q:16:TYR:HE2	17:Q:87:PHE:CB	1.11	1.32
25:Y:349:LEU:HA	25:Y:380:ARG:CZ	1.60	1.32
25:Y:419:ILE:N	25:Y:633:ARG:NH1	1.71	1.32
25:Y:419:ILE:C	25:Y:633:ARG:HH12	1.36	1.32
22:V:146:LYS:HD3	23:W:129:PHE:CE1	1.65	1.31
22:V:146:LYS:CD	23:W:129:PHE:HZ	1.41	1.31
32:f:139:LEU:CD2	32:f:350:TRP:CH2	2.13	1.31
35:i:164:LYS:CE	35:i:165:LYS:HG2	1.48	1.31
1:A:1450:LEU:C	7:G:18:PHE:O	1.71	1.31
2:B:1220:ARG:CA	4:D:14:ARG:HH22	1.43	1.31
2:B:1221:SER:OG	4:D:14:ARG:NH1	1.59	1.31
1:A:1447:GLU:CB	7:G:22:MET:HE2	1.58	1.31
17:Q:75:LEU:O	17:Q:98:ILE:CG2	1.78	1.31
22:V:119:PRO:C	22:V:122:TRP:CD1	2.08	1.31
32:f:333:LYS:HZ3	39:m:131:DG:C5'	1.44	1.31
35:i:148:LEU:O	35:i:152:SER:N	1.60	1.31
25:Y:289:LEU:CD2	25:Y:435:MET:SD	2.19	1.31
32:f:108:LYS:CD	33:g:95:ILE:HG13	1.59	1.31
34:h:130:LYS:HE2	34:h:130:LYS:CA	1.02	1.31
2:B:560:GLU:O	33:g:225:MET:CE	1.78	1.30
7:G:60:ARG:NH2	7:G:69:GLU:OE1	1.65	1.30
18:R:62:PHE:CZ	18:R:201:ALA:HB1	1.66	1.30
20:T:122:HIS:HB2	23:W:131:ASP:N	1.45	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:67:ARG:HB3	25:Y:230:SER:CB	1.61	1.30
25:Y:349:LEU:HD12	25:Y:380:ARG:NE	1.44	1.30
16:P:240:SER:HA	37:k:6:THR:CB	1.62	1.30
2:B:193:LYS:NZ	12:L:32:ALA:O	1.61	1.30
32:f:127:ILE:CG2	32:f:361:TRP:CH2	2.12	1.30
1:A:1445:ILE:CG1	7:G:18:PHE:HZ	1.40	1.30
17:Q:97:LYS:CG	17:Q:243:ASN:HB2	1.61	1.29
25:Y:257:LEU:HD23	25:Y:383:LEU:CD1	1.62	1.29
17:Q:16:TYR:CE2	17:Q:87:PHE:HB3	1.48	1.29
22:V:119:PRO:O	22:V:122:TRP:CD1	1.86	1.29
25:Y:440:LEU:CD2	25:Y:641:PHE:HB2	1.60	1.29
32:f:333:LYS:NZ	39:m:131:DG:C5'	1.92	1.29
1:A:1444:MET:HG2	7:G:60:ARG:CB	1.34	1.29
20:T:63:PHE:O	20:T:66:ASN:ND2	1.66	1.29
25:Y:28:ILE:CG2	25:Y:57:ILE:HG13	1.62	1.29
25:Y:352:ILE:O	25:Y:356:PRO:CD	1.79	1.29
35:i:191:GLU:O	35:i:195:LEU:HD22	1.27	1.29
26:Z:696:ARG:NH1	26:Z:704:PHE:CE1	1.98	1.29
1:A:1447:GLU:CG	7:G:22:MET:HE2	1.60	1.28
25:Y:352:ILE:CB	25:Y:380:ARG:CZ	2.10	1.28
25:Y:420:ILE:CD1	25:Y:633:ARG:HH21	1.44	1.28
33:g:63:ARG:CB	33:g:215:VAL:HA	1.61	1.28
34:h:34:PHE:HE2	34:h:134:LEU:CG	1.36	1.28
25:Y:419:ILE:C	25:Y:633:ARG:NH1	1.90	1.28
17:Q:97:LYS:CE	17:Q:243:ASN:CB	2.07	1.28
24:X:97:ASP:OD1	37:k:16:SER:HB3	1.15	1.28
33:g:113:ASN:OD1	33:g:115:SER:HB3	1.34	1.28
33:g:118:HIS:HE1	33:g:120:TYR:CE2	1.37	1.28
33:g:310:TYR:CE1	35:i:134:TYR:CD1	2.21	1.28
34:h:141:ASN:ND2	34:h:148:LEU:HD13	1.48	1.27
2:B:433:GLN:OE1	32:f:326:ARG:HD3	1.27	1.27
4:D:165:GLN:OE1	37:k:1:PRO:HD3	1.10	1.27
20:T:122:HIS:HB3	23:W:131:ASP:O	1.27	1.27
25:Y:193:TYR:CZ	25:Y:197:ARG:HD2	1.69	1.27
34:h:130:LYS:HA	34:h:130:LYS:CE	1.39	1.27
25:Y:499:LYS:NZ	25:Y:522:TYR:C	1.92	1.27
34:h:123:MET:CE	34:h:130:LYS:HD2	1.64	1.27
36:j:190:PHE:CE1	38:l:18:DA:C6	2.22	1.27
33:g:350:THR:CG2	35:i:130:TRP:HZ3	1.48	1.27
1:A:344:ARG:NH2	2:B:1120:GLU:HG3	1.48	1.26
6:F:105:ALA:CB	7:G:14:HIS:CE1	2.18	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:757:ARG:NH1	26:Z:760:LEU:CG	1.76	1.26
34:h:45:GLN:OE1	35:i:202:PHE:HE1	1.18	1.26
35:i:207:CYS:SG	35:i:208:LYS:CE	2.22	1.26
1:A:1442:ASP:HA	7:G:63:PRO:CG	1.64	1.26
35:i:131:ALA:N	35:i:151:LEU:CD1	1.98	1.26
16:P:619:ILE:CB	16:P:634:MET:HA	1.64	1.26
17:Q:97:LYS:CD	17:Q:243:ASN:CB	2.13	1.26
32:f:121:PHE:CD1	32:f:395:PHE:CE1	2.24	1.26
21:U:25:GLN:HB2	37:k:24:TYR:CG	1.71	1.25
25:Y:232:VAL:CG2	25:Y:453:PHE:HE2	1.48	1.25
33:g:312:TYR:CE2	35:i:151:LEU:CA	2.06	1.25
1:A:1451:VAL:CG1	7:G:20:PRO:CA	2.13	1.25
1:A:1447:GLU:CA	7:G:22:MET:CE	2.02	1.25
25:Y:229:ASP:CA	25:Y:453:PHE:HB3	1.64	1.25
25:Y:631:GLU:CA	25:Y:636:LYS:HE3	1.67	1.25
33:g:63:ARG:HB2	33:g:214:ILE:O	1.23	1.25
34:h:141:ASN:ND2	34:h:148:LEU:CD1	1.99	1.25
35:i:236:LYS:HD2	35:i:245:TRP:CH2	1.70	1.25
25:Y:200:ILE:CB	25:Y:226:VAL:CB	1.79	1.25
32:f:327:ARG:NH2	39:m:131:DG:OP2	1.66	1.25
2:B:110:HIS:CE1	12:L:54:ARG:HH22	1.55	1.25
34:h:126:ILE:HG13	34:h:154:GLU:CG	1.50	1.25
20:T:122:HIS:CA	23:W:130:VAL:HG12	1.59	1.24
26:Z:585:PRO:HB3	26:Z:756:ARG:NH1	1.33	1.24
32:f:113:ASN:O	32:f:114:MET:HG2	1.17	1.24
32:f:327:ARG:NE	39:m:131:DG:OP2	1.68	1.24
33:g:310:TYR:OH	35:i:150:TYR:CB	1.82	1.24
34:h:120:ASN:CG	34:h:133:GLN:HB3	1.61	1.24
35:i:125:SER:O	35:i:129:LEU:HD12	1.32	1.24
36:j:116:PHE:CE1	38:l:23:DA:H2	1.42	1.24
6:F:92:ARG:CZ	7:G:63:PRO:CB	2.12	1.24
21:U:25:GLN:CG	37:k:24:TYR:CD2	2.19	1.24
25:Y:272:SER:OG	25:Y:281:LYS:HE3	1.28	1.24
25:Y:352:ILE:CB	25:Y:380:ARG:NH1	2.00	1.24
25:Y:518:ILE:O	25:Y:522:TYR:CD2	1.90	1.24
25:Y:639:LEU:CB	25:Y:653:PHE:CD2	2.19	1.24
1:A:1447:GLU:OE2	7:G:26:LEU:CD1	1.86	1.24
25:Y:639:LEU:CD1	25:Y:653:PHE:HE2	1.34	1.24
35:i:131:ALA:CA	35:i:151:LEU:CD1	2.16	1.24
35:i:236:LYS:CD	35:i:245:TRP:CZ2	2.21	1.24
33:g:318:LEU:HD21	33:g:349:TYR:OH	1.35	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:165:GLN:OE1	37:k:1:PRO:CD	1.86	1.23
25:Y:357:LYS:CE	25:Y:376:PHE:CD1	2.21	1.23
33:g:310:TYR:OH	35:i:150:TYR:CA	1.86	1.23
2:B:1215:ARG:NE	4:D:15:LEU:CD1	1.99	1.23
25:Y:28:ILE:HG22	25:Y:57:ILE:CG1	1.67	1.23
25:Y:135:ARG:NH2	25:Y:143:ARG:NE	1.85	1.23
35:i:143:LEU:HD13	35:i:144:VAL:N	1.53	1.23
7:G:19:GLY:O	7:G:22:MET:HG3	1.38	1.23
2:B:1220:ARG:C	4:D:14:ARG:HH22	1.41	1.23
26:Z:712:ASP:HB3	27:a:447:GLU:OE2	1.08	1.23
32:f:138:ARG:HH11	33:g:57:LEU:CD1	1.51	1.23
33:g:310:TYR:OH	35:i:150:TYR:HB3	1.33	1.23
34:h:14:LYS:CD	34:h:151:LEU:HB3	1.67	1.23
34:h:34:PHE:HZ	34:h:135:GLU:N	1.22	1.23
17:Q:75:LEU:O	17:Q:98:ILE:HG23	1.08	1.22
34:h:14:LYS:HD3	34:h:151:LEU:CA	1.69	1.22
35:i:137:LYS:N	35:i:137:LYS:HD2	1.40	1.22
25:Y:353:SER:O	25:Y:356:PRO:HG2	1.34	1.22
35:i:191:GLU:O	35:i:195:LEU:CD2	1.86	1.22
2:B:433:GLN:OE1	32:f:326:ARG:NE	1.71	1.22
34:h:123:MET:CB	34:h:130:LYS:HD3	1.69	1.22
25:Y:419:ILE:CA	25:Y:633:ARG:HH12	1.50	1.22
26:Z:668:THR:CG2	26:Z:694:LYS:CB	2.18	1.22
33:g:307:PHE:CZ	33:g:349:TYR:CE1	2.27	1.22
35:i:221:ILE:HD13	35:i:221:ILE:N	1.44	1.22
25:Y:420:ILE:CD1	25:Y:633:ARG:NH2	2.02	1.21
25:Y:244:CYS:CB	25:Y:442:ALA:HB1	1.68	1.21
25:Y:418:LEU:CD1	25:Y:634:ILE:HG12	1.68	1.21
26:Z:460:VAL:CG2	38:l:65:DA:H4'	1.70	1.21
1:A:317:LYS:O	2:B:471:LYS:NZ	1.73	1.21
25:Y:59:TYR:HA	25:Y:62:HIS:NE2	0.90	1.21
25:Y:254:THR:CG2	25:Y:286:TYR:CE1	1.94	1.21
35:i:205:ILE:CG1	35:i:208:LYS:HB2	1.70	1.21
35:i:219:GLU:O	35:i:223:GLN:OE1	1.59	1.21
25:Y:639:LEU:CB	25:Y:653:PHE:CE2	2.23	1.21
32:f:149:PHE:CD1	32:f:338:ASN:OD1	1.94	1.21
2:B:868:MET:CE	29:c:182:ARG:CG	2.20	1.20
32:f:376:LEU:HD23	32:f:386:MET:CG	1.59	1.20
35:i:131:ALA:HA	35:i:151:LEU:CD1	1.70	1.20
26:Z:717:TYR:CE2	26:Z:718:TYR:CD1	2.28	1.20
33:g:311:ASP:OD2	35:i:151:LEU:HD11	1.38	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:j:100:ALA:N	39:m:142:DA:N3	1.89	1.20
2:B:560:GLU:O	33:g:225:MET:HE1	1.28	1.20
25:Y:393:VAL:CB	25:Y:437:PHE:CZ	2.22	1.20
32:f:103:LEU:CD2	33:g:98:ASN:ND2	2.03	1.20
6:F:96:THR:CG2	7:G:65:ASP:O	1.90	1.20
34:h:46:LEU:CD2	34:h:132:THR:HG21	1.70	1.20
17:Q:81:MET:CE	17:Q:92:SER:CB	1.95	1.19
24:X:96:GLU:CB	37:k:18:SER:O	1.89	1.19
36:j:122:VAL:HG11	38:l:22:DA:C2	1.77	1.19
32:f:374:VAL:CG2	33:g:73:LEU:HG	1.72	1.19
33:g:308:ASP:HA	35:i:133:GLU:OE1	1.41	1.19
25:Y:59:TYR:CA	25:Y:62:HIS:CD2	2.21	1.19
25:Y:327:ARG:HB2	25:Y:330:HIS:CE1	1.78	1.19
25:Y:357:LYS:HE3	25:Y:376:PHE:CE1	1.76	1.19
25:Y:639:LEU:HB2	25:Y:653:PHE:CE2	1.77	1.19
26:Z:477:LEU:HA	26:Z:501:VAL:HB	1.20	1.19
32:f:127:ILE:CG2	32:f:361:TRP:HH2	1.46	1.19
33:g:308:ASP:O	35:i:137:LYS:HE3	1.38	1.19
35:i:156:ASP:O	35:i:159:VAL:HG13	1.41	1.19
17:Q:20:ILE:HD11	17:Q:87:PHE:CE2	1.69	1.19
17:Q:97:LYS:HG2	17:Q:243:ASN:CB	1.71	1.19
33:g:74:PRO:CG	33:g:223:GLN:HA	1.73	1.19
1:A:1445:ILE:HG23	6:F:132:LEU:CD2	1.71	1.19
17:Q:85:LEU:O	17:Q:89:ILE:HG23	1.43	1.19
26:Z:621:LYS:NZ	26:Z:621:LYS:HB3	1.40	1.19
25:Y:639:LEU:HD12	25:Y:653:PHE:CZ	1.77	1.18
32:f:121:PHE:CE1	32:f:395:PHE:CG	2.31	1.18
34:h:34:PHE:HE2	34:h:134:LEU:CD2	1.56	1.18
1:A:1450:LEU:O	7:G:18:PHE:O	1.59	1.18
20:T:97:LEU:HD12	20:T:100:ILE:HD11	1.18	1.18
25:Y:68:LYS:CG	25:Y:228:LYS:HG3	1.72	1.18
1:A:1447:GLU:CB	7:G:22:MET:CE	2.20	1.18
6:F:92:ARG:HE	7:G:64:THR:N	1.40	1.18
25:Y:586:TYR:CD2	25:Y:598:LEU:CD1	2.27	1.18
36:j:118:SER:CB	38:l:24:DT:H4'	1.74	1.18
2:B:296:GLU:CG	32:f:126:LYS:NZ	2.07	1.17
26:Z:460:VAL:HG11	38:l:65:DA:C4'	1.73	1.17
26:Z:527:LEU:HD22	26:Z:531:ILE:HD12	1.21	1.17
32:f:138:ARG:NH1	33:g:57:LEU:CB	2.07	1.17
34:h:142:PHE:HD1	34:h:142:PHE:N	0.99	1.17
1:A:227:VAL:CG2	4:D:16:LYS:HE3	1.72	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:350:GLN:HG3	32:f:407:ASP:CG	1.68	1.17
25:Y:28:ILE:HG22	25:Y:57:ILE:CD1	1.72	1.17
25:Y:350:HIS:CE1	25:Y:381:LEU:HD11	1.79	1.17
25:Y:353:SER:HA	25:Y:356:PRO:HG3	1.19	1.17
32:f:119:LEU:CD2	32:f:391:LYS:H	1.56	1.16
32:f:121:PHE:CE1	32:f:395:PHE:CD1	2.34	1.16
35:i:170:GLU:O	35:i:179:LYS:HD2	1.39	1.16
35:i:137:LYS:N	35:i:137:LYS:CD	2.08	1.16
25:Y:352:ILE:O	25:Y:356:PRO:HD3	0.98	1.16
25:Y:416:PHE:HE2	25:Y:440:LEU:CD2	1.56	1.16
25:Y:418:LEU:HD11	25:Y:634:ILE:HG12	1.26	1.16
25:Y:639:LEU:CD1	25:Y:653:PHE:CZ	2.28	1.16
32:f:103:LEU:CD2	33:g:98:ASN:HD22	1.57	1.16
34:h:27:LEU:HD21	34:h:129:THR:N	1.60	1.16
34:h:151:LEU:HD22	34:h:152:CYS:N	1.58	1.16
1:A:1451:VAL:HG13	7:G:20:PRO:CA	1.75	1.16
20:T:122:HIS:HB2	23:W:130:VAL:C	1.70	1.16
25:Y:526:LEU:CD2	25:Y:554:TRP:CH2	2.29	1.16
32:f:118:LEU:HD23	33:g:136:THR:CG2	1.76	1.16
1:A:1445:ILE:CG1	7:G:68:ALA:N	2.04	1.16
6:F:96:THR:CG2	7:G:65:ASP:C	2.18	1.16
25:Y:67:ARG:HB3	25:Y:230:SER:HB3	1.17	1.16
25:Y:231:ILE:HA	25:Y:455:SER:CB	1.76	1.16
26:Z:712:ASP:CB	27:a:447:GLU:OE2	1.94	1.16
32:f:357:GLY:HA2	40:n:53:LYS:CA	1.75	1.16
25:Y:272:SER:OG	25:Y:281:LYS:CE	1.93	1.15
25:Y:499:LYS:HD3	25:Y:521:ASN:C	1.71	1.15
35:i:135:ILE:CG1	35:i:180:TYR:HB2	1.76	1.15
35:i:137:LYS:CD	35:i:137:LYS:H	1.57	1.15
35:i:221:ILE:H	35:i:221:ILE:CD1	1.48	1.15
34:h:127:CYS:SG	34:h:129:THR:HG22	1.87	1.15
1:A:1447:GLU:HG3	7:G:70:PHE:CZ	1.80	1.15
4:D:165:GLN:CD	37:k:1:PRO:CD	2.18	1.15
6:F:92:ARG:NH2	7:G:63:PRO:HB2	0.84	1.15
32:f:376:LEU:HD21	32:f:386:MET:SD	1.86	1.15
35:i:158:LYS:NZ	35:i:162:LEU:HG	1.60	1.15
18:R:62:PHE:CE2	18:R:201:ALA:HB1	1.80	1.15
25:Y:393:VAL:CB	25:Y:437:PHE:CE2	2.29	1.15
26:Z:757:ARG:CZ	26:Z:760:LEU:HB3	1.76	1.15
35:i:135:ILE:HD11	35:i:180:TYR:HD2	1.02	1.15
21:U:25:GLN:CD	37:k:24:TYR:HD2	1.54	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:108:LYS:CD	33:g:95:ILE:CG1	2.17	1.15
34:h:123:MET:HA	34:h:130:LYS:CE	1.77	1.15
36:j:118:SER:HB3	38:l:24:DT:C4'	1.77	1.15
1:A:1447:GLU:CD	7:G:70:PHE:CZ	2.25	1.14
17:Q:81:MET:HE3	17:Q:92:SER:HB3	1.25	1.14
21:U:25:GLN:CB	37:k:24:TYR:CD2	2.29	1.14
32:f:348:TYR:CE2	32:f:393:TYR:CZ	2.35	1.14
32:f:350:TRP:CZ3	33:g:59:LEU:CD2	2.28	1.14
34:h:34:PHE:CZ	34:h:134:LEU:CD1	2.28	1.14
35:i:148:LEU:HD13	35:i:154:LYS:HB3	1.26	1.14
20:T:122:HIS:HA	23:W:130:VAL:HG11	1.27	1.14
25:Y:193:TYR:CE2	25:Y:197:ARG:HD2	1.80	1.14
33:g:312:TYR:CE2	35:i:151:LEU:C	1.98	1.14
35:i:125:SER:N	35:i:127:LYS:HZ2	1.35	1.14
35:i:148:LEU:CD1	35:i:154:LYS:HB3	1.77	1.14
1:A:49:LYS:HE2	1:A:61:ILE:HD11	1.26	1.14
26:Z:474:MET:HB3	26:Z:482:TRP:H	1.13	1.14
32:f:386:MET:HE3	33:g:73:LEU:CD1	1.77	1.14
34:h:43:LEU:HD23	34:h:54:LEU:HD11	1.15	1.14
35:i:236:LYS:HB2	35:i:245:TRP:CZ3	1.82	1.14
22:V:146:LYS:CG	23:W:129:PHE:CZ	2.29	1.14
26:Z:668:THR:CG2	26:Z:694:LYS:HB3	1.76	1.14
33:g:107:LEU:HD11	33:g:119:GLU:HG3	1.28	1.14
25:Y:68:LYS:O	25:Y:230:SER:OG	1.63	1.14
32:f:102:PRO:HD3	33:g:99:LYS:O	0.97	1.14
34:h:34:PHE:CZ	34:h:134:LEU:HG	1.82	1.14
1:A:1444:MET:CG	7:G:60:ARG:HB2	1.77	1.13
1:A:1447:GLU:CG	7:G:70:PHE:HZ	1.60	1.13
2:B:1215:ARG:CZ	4:D:15:LEU:HD11	1.77	1.13
25:Y:567:LYS:HE2	25:Y:597:ILE:HG21	1.21	1.13
32:f:119:LEU:HD23	32:f:391:LYS:H	1.02	1.13
32:f:374:VAL:HG23	33:g:73:LEU:CD2	1.77	1.13
35:i:184:TYR:HB2	35:i:222:ASN:ND2	1.62	1.13
1:A:36:ARG:NH2	1:A:57:ARG:HH12	1.45	1.13
17:Q:75:LEU:HA	17:Q:98:ILE:HG21	1.19	1.13
22:V:117:LYS:NZ	22:V:121:GLU:HG2	1.41	1.13
24:X:52:PRO:HG3	37:k:24:TYR:CE2	1.71	1.13
26:Z:421:ARG:HG2	26:Z:430:LEU:HG	1.30	1.13
36:j:190:PHE:CD1	38:l:18:DA:C4	2.37	1.13
25:Y:269:GLU:HG2	25:Y:277:VAL:HG11	1.28	1.13
25:Y:327:ARG:CZ	25:Y:330:HIS:CE1	2.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:342:LEU:HD12	32:f:345:GLU:OE2	1.49	1.13
34:h:46:LEU:HD21	34:h:132:THR:HG22	1.20	1.13
34:h:123:MET:HE3	34:h:130:LYS:CD	1.78	1.13
35:i:128:LEU:HD22	35:i:162:LEU:HD12	1.29	1.13
25:Y:71:TYR:CE2	25:Y:233:ILE:HG21	1.83	1.13
25:Y:231:ILE:HA	25:Y:455:SER:HB2	1.16	1.13
25:Y:494:PRO:HD2	25:Y:679:MET:O	1.46	1.13
32:f:121:PHE:CD1	32:f:395:PHE:CD1	2.36	1.13
35:i:140:LYS:HE3	35:i:140:LYS:H	1.09	1.13
20:T:38:SER:HB2	22:V:113:ASP:OD2	1.47	1.13
25:Y:200:ILE:O	25:Y:226:VAL:HG23	1.49	1.13
4:D:165:GLN:NE2	37:k:1:PRO:CD	2.12	1.12
6:F:96:THR:OG1	7:G:64:THR:O	1.65	1.12
25:Y:586:TYR:CD2	25:Y:598:LEU:HD11	1.84	1.12
33:g:308:ASP:HA	35:i:133:GLU:CD	1.71	1.12
35:i:148:LEU:HD12	35:i:154:LYS:NZ	1.51	1.12
17:Q:97:LYS:CG	17:Q:243:ASN:CB	2.24	1.12
32:f:103:LEU:HD21	33:g:98:ASN:CG	1.74	1.12
32:f:404:LEU:HD22	32:f:412:ARG:NH1	1.52	1.12
34:h:123:MET:HB2	34:h:130:LYS:HD3	1.25	1.12
36:j:190:PHE:CD1	38:l:18:DA:C5	2.36	1.12
1:A:368:LYS:HE2	1:A:399:HIS:HB2	1.28	1.12
16:P:315:SER:CB	16:P:426:ARG:N	2.12	1.12
25:Y:353:SER:HB2	25:Y:381:LEU:HB2	1.14	1.12
34:h:41:ASP:OD2	35:i:202:PHE:CZ	2.03	1.12
1:A:1447:GLU:HG2	7:G:22:MET:HE2	1.19	1.12
17:Q:75:LEU:C	17:Q:98:ILE:HG23	1.74	1.12
25:Y:232:VAL:HG21	25:Y:453:PHE:HE2	1.14	1.12
25:Y:289:LEU:HD22	25:Y:435:MET:SD	1.84	1.12
34:h:27:LEU:CD2	34:h:129:THR:N	2.13	1.12
34:h:52:THR:HG22	35:i:237:LYS:HB3	1.31	1.12
1:A:1444:MET:CG	7:G:60:ARG:CB	2.28	1.12
24:X:96:GLU:HB3	37:k:18:SER:O	0.97	1.12
25:Y:518:ILE:HG23	25:Y:522:TYR:CE2	1.77	1.12
32:f:113:ASN:O	32:f:114:MET:CG	1.97	1.12
36:j:190:PHE:HE1	38:l:18:DA:C6	1.63	1.12
1:A:227:VAL:HG21	4:D:16:LYS:HE3	1.18	1.11
1:A:1445:ILE:CG2	7:G:18:PHE:HE2	1.62	1.11
6:F:96:THR:HG21	7:G:65:ASP:O	1.48	1.11
20:T:118:LEU:HD21	23:W:129:PHE:CB	1.80	1.11
35:i:205:ILE:HG23	35:i:209:ASP:HB2	1.31	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:1:MET:N	24:X:90:GLU:O	1.80	1.11
17:Q:90:LEU:CD2	17:Q:251:PHE:HE2	1.62	1.11
24:X:52:PRO:HG2	37:k:24:TYR:CE2	1.72	1.11
25:Y:327:ARG:NH1	25:Y:330:HIS:CE1	2.18	1.11
25:Y:353:SER:O	25:Y:356:PRO:CG	1.99	1.11
26:Z:455:SER:HB3	26:Z:466:ARG:HH11	1.15	1.11
20:T:114:ILE:HG13	22:V:143:LEU:HD13	1.33	1.11
26:Z:408:ILE:HG12	26:Z:475:ASP:HB3	1.28	1.11
35:i:148:LEU:HD13	35:i:154:LYS:NZ	1.38	1.11
35:i:164:LYS:NZ	35:i:165:LYS:HG2	1.65	1.11
25:Y:230:SER:N	25:Y:453:PHE:HB2	1.65	1.11
32:f:121:PHE:HD1	32:f:395:PHE:CE1	1.63	1.11
22:V:112:LYS:HG3	22:V:119:PRO:HD3	1.27	1.11
1:A:419:LYS:NZ	29:c:48:CYS:HB3	1.65	1.10
1:A:1442:ASP:C	7:G:63:PRO:HG3	1.76	1.10
33:g:312:TYR:CD2	35:i:151:LEU:HA	1.86	1.10
34:h:14:LYS:CD	34:h:151:LEU:CB	2.22	1.10
34:h:52:THR:CG2	35:i:237:LYS:HB3	1.80	1.10
16:P:410:VAL:CB	16:P:502:ASN:HA	1.81	1.10
21:U:70:MET:SD	24:X:69:TYR:CE1	2.44	1.10
25:Y:60:GLN:O	25:Y:64:PRO:CD	2.00	1.10
34:h:17:VAL:HG12	34:h:66:LEU:CG	1.79	1.10
34:h:44:LYS:HG3	34:h:51:LYS:HA	1.12	1.10
34:h:46:LEU:HD21	34:h:132:THR:HG23	1.32	1.10
35:i:135:ILE:HD11	35:i:180:TYR:CD2	1.85	1.10
39:m:104:DA:H2''	39:m:105:DC:H5'	1.28	1.10
1:A:1451:VAL:HG13	7:G:20:PRO:CB	1.80	1.10
2:B:350:GLN:HE21	32:f:411:LYS:CE	1.65	1.10
2:B:1215:ARG:CD	4:D:15:LEU:HD13	1.62	1.10
25:Y:200:ILE:CA	25:Y:226:VAL:CG2	2.28	1.10
25:Y:495:MET:HG2	25:Y:686:PHE:CB	1.81	1.10
26:Z:515:ALA:C	26:Z:681:ARG:HD3	1.75	1.10
26:Z:757:ARG:NH1	26:Z:760:LEU:CB	2.13	1.10
32:f:374:VAL:HG23	33:g:73:LEU:CG	1.80	1.10
34:h:17:VAL:CG1	34:h:66:LEU:HG	1.79	1.10
34:h:27:LEU:HD11	34:h:128:LEU:O	1.39	1.10
35:i:133:GLU:HG3	35:i:137:LYS:HE3	1.34	1.10
4:D:165:GLN:NE2	37:k:1:PRO:HD3	1.64	1.10
17:Q:48:ASP:O	18:R:47:LYS:HE3	1.52	1.10
24:X:96:GLU:HB3	37:k:18:SER:C	1.76	1.10
25:Y:254:THR:HG23	25:Y:286:TYR:CD1	1.86	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:151:LEU:HD23	32:f:336:ASP:OD1	1.51	1.10
34:h:27:LEU:HD13	34:h:128:LEU:O	1.48	1.10
34:h:34:PHE:CZ	34:h:135:GLU:N	2.05	1.10
35:i:130:TRP:HB3	35:i:151:LEU:HD21	1.23	1.10
21:U:25:GLN:N	37:k:24:TYR:CG	2.20	1.10
25:Y:200:ILE:C	25:Y:226:VAL:HG23	1.75	1.10
25:Y:353:SER:CB	25:Y:381:LEU:HB2	1.82	1.10
1:A:1451:VAL:HG23	7:G:22:MET:SD	1.93	1.09
2:B:350:GLN:HG3	32:f:407:ASP:OD2	1.49	1.09
6:F:105:ALA:HB2	7:G:14:HIS:NE2	1.67	1.09
25:Y:499:LYS:CD	25:Y:522:TYR:HA	1.81	1.09
26:Z:428:CYS:HB2	26:Z:434:ASN:HB2	1.26	1.09
32:f:138:ARG:HH11	33:g:57:LEU:HD12	1.13	1.09
36:j:120:LYS:CB	38:l:23:DA:H2''	1.82	1.09
17:Q:81:MET:HE2	17:Q:92:SER:HB2	1.11	1.09
20:T:122:HIS:CB	23:W:131:ASP:N	2.14	1.09
25:Y:244:CYS:HB3	25:Y:442:ALA:HB1	1.34	1.09
25:Y:495:MET:HB3	25:Y:686:PHE:CD2	1.86	1.09
32:f:137:VAL:HG13	33:g:59:LEU:HB3	1.25	1.09
2:B:350:GLN:HE21	32:f:411:LYS:HE3	0.94	1.09
2:B:430:ARG:HA	32:f:326:ARG:NH1	1.66	1.09
20:T:93:ILE:CD1	22:V:122:TRP:CE3	2.04	1.09
22:V:83:LEU:HA	22:V:87:LEU:HB2	1.19	1.09
26:Z:487:LEU:HD23	26:Z:493:VAL:HG21	1.19	1.09
33:g:82:ARG:HE	33:g:108:LEU:HD11	1.01	1.09
34:h:141:ASN:HD22	34:h:148:LEU:CD1	1.61	1.09
25:Y:386:ARG:O	25:Y:390:VAL:HG23	1.51	1.09
26:Z:410:LEU:HD11	26:Z:457:TYR:HA	1.17	1.09
33:g:306:LEU:HD11	33:g:313:TRP:CZ3	1.87	1.09
35:i:130:TRP:C	35:i:151:LEU:CD1	2.23	1.09
35:i:131:ALA:HA	35:i:151:LEU:HD12	1.21	1.09
35:i:234:ARG:HG2	35:i:247:ASN:OD1	1.51	1.09
17:Q:106:ARG:NH2	17:Q:214:GLN:OE1	1.84	1.09
22:V:111:THR:O	22:V:117:LYS:O	1.70	1.09
33:g:308:ASP:CA	35:i:133:GLU:OE1	2.00	1.09
16:P:410:VAL:CB	16:P:502:ASN:CA	2.30	1.08
25:Y:232:VAL:CG2	25:Y:453:PHE:CE2	2.34	1.08
26:Z:460:VAL:HG21	38:l:65:DA:H4'	1.33	1.08
26:Z:647:ASP:OD1	26:Z:647:ASP:N	1.84	1.08
1:A:89:PRO:HG2	1:A:204:THR:HB	1.35	1.08
6:F:105:ALA:CA	7:G:14:HIS:HE1	1.64	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:T:94:TYR:HB2	22:V:111:THR:HG22	1.35	1.08
25:Y:550:ILE:HG22	25:Y:554:TRP:CH2	1.87	1.08
25:Y:586:TYR:CG	25:Y:598:LEU:HD11	1.87	1.08
25:Y:643:ARG:HB2	25:Y:649:ARG:HB3	1.26	1.08
26:Z:621:LYS:NZ	26:Z:621:LYS:CB	2.10	1.08
32:f:376:LEU:HG	33:g:73:LEU:HD22	1.25	1.08
33:g:63:ARG:HB3	33:g:215:VAL:C	1.76	1.08
2:B:1220:ARG:CA	4:D:14:ARG:NH2	2.14	1.08
22:V:89:THR:HG23	22:V:90:LEU:HD12	1.32	1.08
32:f:121:PHE:HE1	32:f:395:PHE:CD2	1.71	1.08
33:g:69:TRP:CB	33:g:219:CYS:SG	2.40	1.08
35:i:189:PRO:O	35:i:193:LEU:HD23	1.52	1.08
2:B:296:GLU:OE1	32:f:126:LYS:NZ	1.72	1.08
21:U:25:GLN:HB2	37:k:24:TYR:CD2	1.85	1.08
25:Y:28:ILE:HG22	25:Y:57:ILE:HG13	1.19	1.08
26:Z:668:THR:CG2	26:Z:694:LYS:HB2	1.81	1.08
33:g:63:ARG:CG	33:g:215:VAL:CA	2.22	1.08
1:A:16:GLU:OE1	4:D:14:ARG:NH1	1.86	1.08
17:Q:106:ARG:NH2	17:Q:214:GLN:CD	2.11	1.08
25:Y:229:ASP:HB3	25:Y:453:PHE:HB3	1.19	1.08
25:Y:353:SER:HB2	25:Y:381:LEU:CB	1.84	1.08
25:Y:418:LEU:HD12	25:Y:438:THR:OG1	1.52	1.08
25:Y:532:ILE:HD12	25:Y:705:ASP:HB2	1.31	1.08
26:Z:410:LEU:HD22	26:Z:477:LEU:HD11	1.35	1.08
26:Z:757:ARG:CZ	26:Z:760:LEU:CG	2.32	1.08
33:g:318:LEU:HD21	33:g:349:TYR:CZ	1.87	1.08
1:A:836:TYR:OH	1:A:1403:GLU:OE2	1.69	1.07
20:T:87:LEU:HD12	20:T:90:TYR:HD2	1.18	1.07
21:U:25:GLN:N	37:k:24:TYR:CD1	2.21	1.07
25:Y:200:ILE:CA	25:Y:226:VAL:HG21	1.83	1.07
33:g:74:PRO:HG2	33:g:223:GLN:HA	1.13	1.07
36:j:120:LYS:HB2	38:l:23:DA:H2"	1.26	1.07
1:A:1445:ILE:HG12	7:G:18:PHE:HZ	1.03	1.07
20:T:122:HIS:HB3	23:W:131:ASP:CA	1.85	1.07
25:Y:124:ARG:HA	25:Y:376:PHE:CE1	1.89	1.07
25:Y:272:SER:CB	25:Y:281:LYS:NZ	2.17	1.07
25:Y:353:SER:C	25:Y:356:PRO:HD2	1.78	1.07
26:Z:424:PHE:HB3	26:Z:449:GLU:HG2	1.28	1.07
32:f:127:ILE:HG22	32:f:361:TRP:HH2	1.06	1.07
32:f:376:LEU:HG	33:g:73:LEU:CD2	1.84	1.07
33:g:312:TYR:HE2	35:i:151:LEU:C	1.43	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:45:GLN:OE1	35:i:202:PHE:CE1	2.06	1.07
17:Q:86:ASN:ND2	17:Q:87:PHE:CD1	2.23	1.07
35:i:130:TRP:CD1	35:i:151:LEU:CG	2.35	1.07
35:i:203:LYS:CD	35:i:247:ASN:ND2	2.16	1.07
35:i:205:ILE:HG12	35:i:208:LYS:HB2	1.09	1.07
36:j:122:VAL:HG11	38:l:22:DA:H2	0.97	1.07
18:R:43:ARG:HB2	18:R:119:ARG:HG3	1.33	1.07
25:Y:497:ILE:HG23	25:Y:684:ARG:HG2	1.29	1.07
34:h:27:LEU:HD21	34:h:128:LEU:C	1.79	1.07
36:j:190:PHE:CD1	38:l:18:DA:N9	2.23	1.07
17:Q:75:LEU:CA	17:Q:98:ILE:HG21	1.84	1.07
20:T:93:ILE:HD13	22:V:122:TRP:HB2	1.36	1.07
20:T:118:LEU:HD21	23:W:129:PHE:HB3	1.37	1.07
25:Y:328:ALA:CA	25:Y:417:LEU:HD22	1.85	1.07
25:Y:495:MET:HG2	25:Y:686:PHE:HB2	1.29	1.07
35:i:238:ASP:HA	35:i:243:TYR:CD1	1.89	1.07
38:l:39:DC:H2''	38:l:40:DG:H5'	1.10	1.07
17:Q:97:LYS:HD3	17:Q:243:ASN:HB2	1.37	1.06
16:P:341:TYR:HA	16:P:354:ILE:CB	1.84	1.06
20:T:118:LEU:CD2	23:W:129:PHE:HB3	1.85	1.06
25:Y:550:ILE:HG23	25:Y:554:TRP:HZ2	1.20	1.06
25:Y:639:LEU:HG	25:Y:653:PHE:CE2	1.84	1.06
34:h:52:THR:HB	35:i:237:LYS:HD3	1.34	1.06
20:T:119:ASN:N	23:W:131:ASP:CG	2.03	1.06
25:Y:350:HIS:CE1	25:Y:381:LEU:CD1	2.37	1.06
26:Z:405:LYS:HD3	26:Z:483:GLY:HA3	1.35	1.06
34:h:28:VAL:HG13	34:h:43:LEU:HD21	1.37	1.06
34:h:34:PHE:CE2	34:h:134:LEU:HG	1.78	1.06
34:h:154:GLU:OE2	34:h:155:PRO:HD2	1.55	1.06
36:j:116:PHE:CE1	38:l:23:DA:N3	2.23	1.06
39:m:102:DG:H2''	39:m:103:DT:H5'	1.07	1.06
20:T:50:GLU:HG2	22:V:98:LEU:HD13	1.10	1.06
25:Y:229:ASP:HB3	25:Y:453:PHE:CB	1.85	1.06
33:g:307:PHE:O	35:i:133:GLU:OE2	1.74	1.06
1:A:78:PRO:O	2:B:1201:LYS:NZ	1.89	1.06
22:V:119:PRO:CA	22:V:122:TRP:HE1	1.55	1.06
25:Y:293:LEU:CD1	25:Y:433:PRO:CB	2.32	1.06
25:Y:495:MET:SD	25:Y:696:TRP:CE3	2.49	1.06
26:Z:476:PHE:HD1	26:Z:485:ILE:HD12	1.17	1.06
26:Z:696:ARG:NH1	26:Z:704:PHE:CZ	2.24	1.06
32:f:108:LYS:HD2	33:g:95:ILE:HG12	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:52:THR:HB	35:i:237:LYS:HD2	1.16	1.06
35:i:236:LYS:HE2	35:i:243:TYR:CG	1.91	1.06
7:G:1:MET:HE1	7:G:80:LYS:O	1.54	1.05
20:T:42:LEU:HD23	22:V:105:ILE:HD12	1.36	1.05
20:T:55:LYS:HD2	20:T:60:VAL:HG11	1.33	1.05
21:U:70:MET:SD	24:X:69:TYR:CD1	2.49	1.05
25:Y:196:VAL:O	25:Y:200:ILE:HG23	1.56	1.05
26:Z:408:ILE:HB	26:Z:482:TRP:HD1	1.16	1.05
26:Z:566:TYR:HB2	27:a:450:ARG:HH21	0.92	1.05
26:Z:756:ARG:HH11	26:Z:756:ARG:CG	1.69	1.05
1:A:1442:ASP:CA	7:G:63:PRO:HG2	1.87	1.05
1:A:1443:VAL:N	7:G:63:PRO:CG	2.08	1.05
25:Y:440:LEU:HD11	25:Y:638:ARG:HA	1.08	1.05
25:Y:495:MET:HE1	25:Y:696:TRP:HB3	1.38	1.05
32:f:137:VAL:CG1	33:g:59:LEU:HB3	1.86	1.05
33:g:318:LEU:HD11	33:g:349:TYR:CE2	1.90	1.05
1:A:1451:VAL:HG11	7:G:20:PRO:HA	1.13	1.05
2:B:1220:ARG:HA	4:D:14:ARG:HH22	1.11	1.05
22:V:119:PRO:HB2	22:V:122:TRP:HE1	1.21	1.05
26:Z:505:ILE:HG22	26:Z:507:ALA:H	1.21	1.05
20:T:63:PHE:O	20:T:66:ASN:CG	1.97	1.05
25:Y:419:ILE:O	25:Y:633:ARG:NH1	1.87	1.05
32:f:119:LEU:CD2	32:f:391:LYS:N	2.20	1.05
35:i:170:GLU:O	35:i:179:LYS:HD3	1.49	1.05
35:i:184:TYR:HB2	35:i:222:ASN:HD21	1.16	1.05
35:i:194:LYS:NZ	35:i:210:LEU:HD11	1.70	1.05
36:j:114:LEU:HB3	39:m:143:DT:O2	1.57	1.05
2:B:350:GLN:NE2	32:f:411:LYS:HE3	1.72	1.05
25:Y:479:LEU:O	25:Y:479:LEU:HD22	1.54	1.05
32:f:135:LEU:HB2	32:f:136:PRO:CD	1.86	1.05
32:f:333:LYS:NZ	39:m:131:DG:P	1.14	1.05
33:g:118:HIS:CE1	33:g:120:TYR:HE2	1.44	1.05
34:h:141:ASN:HD22	34:h:148:LEU:HD13	1.03	1.05
1:A:1447:GLU:HG2	7:G:22:MET:CE	1.86	1.04
1:A:1447:GLU:O	7:G:22:MET:SD	2.15	1.04
17:Q:86:ASN:HA	17:Q:89:ILE:HG12	1.36	1.04
20:T:91:ASP:HA	22:V:111:THR:HG21	1.31	1.04
25:Y:42:MET:CG	25:Y:50:VAL:HG22	1.87	1.04
26:Z:472:LYS:HG2	26:Z:473:VAL:HG13	1.37	1.04
32:f:137:VAL:HG11	33:g:61:LEU:HD21	1.35	1.04
34:h:154:GLU:CD	34:h:155:PRO:CD	2.31	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:105:ALA:HA	7:G:14:HIS:HE1	1.19	1.04
25:Y:253:THR:HG22	25:Y:434:ILE:CG2	1.88	1.04
25:Y:650:GLU:HA	25:Y:653:PHE:CE1	1.91	1.04
26:Z:578:MET:SD	26:Z:779:ALA:O	2.15	1.04
26:Z:757:ARG:HH12	26:Z:760:LEU:CB	1.70	1.04
35:i:234:ARG:CG	35:i:247:ASN:OD1	2.05	1.04
1:A:89:PRO:CG	1:A:204:THR:HB	1.88	1.04
16:P:321:VAL:CB	16:P:340:GLY:CA	2.35	1.04
33:g:63:ARG:CB	33:g:215:VAL:CA	2.36	1.04
33:g:294:MET:N	33:g:295:PRO:HD2	1.73	1.04
38:l:49:DC:H2''	38:l:50:DC:H5'	1.04	1.04
2:B:902:GLY:O	12:L:65:VAL:HG11	1.58	1.04
2:B:1215:ARG:CD	4:D:15:LEU:HD11	1.74	1.04
17:Q:97:LYS:HZ2	17:Q:244:SER:CA	1.71	1.04
32:f:120:LYS:NZ	33:g:72:ARG:CD	2.20	1.04
33:g:306:LEU:HD11	33:g:313:TRP:CE3	1.92	1.04
35:i:227:ASP:O	35:i:231:LEU:HG	1.58	1.04
35:i:238:ASP:OD2	35:i:243:TYR:CE1	2.09	1.04
24:X:97:ASP:OD1	37:k:16:SER:CB	2.06	1.04
25:Y:200:ILE:HG21	25:Y:226:VAL:HG11	1.35	1.04
25:Y:230:SER:O	25:Y:455:SER:CB	2.06	1.04
25:Y:349:LEU:HD11	25:Y:380:ARG:HG3	1.40	1.04
25:Y:537:MET:SD	25:Y:621:LEU:HD13	1.98	1.04
26:Z:502:VAL:HG11	26:Z:530:LEU:HB3	1.35	1.04
34:h:144:ARG:HA	34:h:144:ARG:NH1	1.51	1.04
37:k:21:SER:H	37:k:22:PRO:HD2	1.23	1.04
25:Y:42:MET:SD	25:Y:50:VAL:HG22	1.97	1.03
25:Y:230:SER:O	25:Y:455:SER:HB2	1.55	1.03
25:Y:257:LEU:HD23	25:Y:383:LEU:HD11	1.07	1.03
34:h:34:PHE:CZ	34:h:134:LEU:CG	2.40	1.03
1:A:317:LYS:O	2:B:471:LYS:CE	2.06	1.03
1:A:1444:MET:HG2	7:G:60:ARG:HB2	1.03	1.03
17:Q:98:ILE:CG2	17:Q:99:PRO:HD2	1.89	1.03
32:f:141:ARG:NH2	32:f:348:TYR:OH	1.90	1.03
13:M:129:ARG:CB	13:M:134:THR:CB	2.35	1.03
18:R:72:ILE:CG2	18:R:202:TYR:CE1	2.40	1.03
22:V:119:PRO:C	22:V:122:TRP:NE1	2.14	1.03
25:Y:250:LEU:O	25:Y:436:ARG:HG3	1.59	1.03
25:Y:678:VAL:HG11	25:Y:708:LEU:HG	1.41	1.03
33:g:350:THR:CG2	35:i:130:TRP:CZ3	2.30	1.03
35:i:135:ILE:CD1	35:i:180:TYR:HD2	1.70	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:234:ARG:CD	35:i:247:ASN:OD1	2.07	1.03
36:j:124:THR:HG21	39:m:144:DT:O2	1.57	1.03
2:B:451:LYS:HD2	29:c:138:ASP:OD2	1.59	1.03
25:Y:37:ASN:HB2	25:Y:456:VAL:CB	1.79	1.03
25:Y:499:LYS:NZ	25:Y:522:TYR:O	1.90	1.03
26:Z:566:TYR:HB2	27:a:450:ARG:NH2	1.73	1.03
2:B:430:ARG:HA	32:f:326:ARG:HH12	1.20	1.03
25:Y:28:ILE:CG2	25:Y:57:ILE:CG1	2.32	1.03
25:Y:495:MET:HG2	25:Y:686:PHE:CG	1.93	1.03
26:Z:460:VAL:CG1	38:l:65:DA:H4'	1.89	1.03
26:Z:756:ARG:NH1	26:Z:756:ARG:HG2	1.53	1.03
32:f:350:TRP:HZ3	33:g:59:LEU:CD2	1.70	1.03
32:f:374:VAL:CG2	33:g:73:LEU:CG	2.37	1.03
35:i:143:LEU:CD1	35:i:145:ASN:H	1.72	1.03
35:i:191:GLU:HG2	35:i:230:ILE:HD11	1.38	1.03
20:T:38:SER:HB2	22:V:113:ASP:CG	1.84	1.02
25:Y:70:ILE:HB	25:Y:208:TYR:HE2	1.23	1.02
26:Z:384:ILE:HD13	26:Z:511:LEU:HD11	1.41	1.02
34:h:126:ILE:CG1	34:h:154:GLU:HG3	1.60	1.02
34:h:154:GLU:OE1	34:h:155:PRO:HD3	1.58	1.02
1:A:1445:ILE:HG13	7:G:68:ALA:N	1.69	1.02
26:Z:474:MET:H	26:Z:481:GLU:H	1.07	1.02
20:T:122:HIS:CA	23:W:130:VAL:HG13	1.86	1.02
20:T:122:HIS:HB2	23:W:130:VAL:HG12	1.23	1.02
25:Y:103:PHE:CD1	25:Y:205:ILE:HD12	1.95	1.02
25:Y:128:VAL:CG2	25:Y:375:ARG:HA	1.88	1.02
25:Y:499:LYS:CD	25:Y:522:TYR:N	2.22	1.02
26:Z:303:ARG:HG2	26:Z:504:THR:HB	1.40	1.02
32:f:139:LEU:HB2	32:f:350:TRP:CZ3	1.93	1.02
33:g:333:LEU:O	33:g:337:ALA:HB3	1.58	1.02
2:B:868:MET:HE1	29:c:182:ARG:CG	1.87	1.02
6:F:105:ALA:CB	7:G:14:HIS:HE1	1.64	1.02
26:Z:460:VAL:HG21	38:l:65:DA:C4'	1.90	1.02
26:Z:757:ARG:NH2	26:Z:760:LEU:CB	2.22	1.02
32:f:350:TRP:CH2	33:g:59:LEU:HD22	1.95	1.02
33:g:311:ASP:OD2	35:i:151:LEU:CD1	2.06	1.02
36:j:190:PHE:CZ	38:l:18:DA:C2	2.48	1.02
21:U:24:THR:CA	37:k:24:TYR:CE1	2.43	1.02
25:Y:59:TYR:HA	25:Y:62:HIS:CE1	1.95	1.02
25:Y:499:LYS:CD	25:Y:522:TYR:CA	2.38	1.02
26:Z:376:ASN:H	26:Z:380:ARG:HB2	1.22	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:757:ARG:CZ	26:Z:760:LEU:CD2	2.21	1.02
39:m:122:DG:H2''	39:m:123:DA:H5'	1.41	1.02
1:A:1442:ASP:CA	7:G:63:PRO:CG	2.37	1.01
2:B:433:GLN:OE1	32:f:326:ARG:CZ	2.07	1.01
22:V:83:LEU:HG	22:V:87:LEU:HD13	1.41	1.01
25:Y:68:LYS:HB2	25:Y:228:LYS:HB2	1.42	1.01
25:Y:603:ARG:NH1	25:Y:629:TYR:OH	1.93	1.01
26:Z:588:PHE:CE2	26:Z:621:LYS:NZ	2.26	1.01
32:f:374:VAL:HG23	33:g:73:LEU:HD21	1.41	1.01
1:A:1447:GLU:HG3	7:G:70:PHE:HZ	0.89	1.01
25:Y:357:LYS:CE	25:Y:376:PHE:CE1	2.37	1.01
25:Y:416:PHE:CE2	25:Y:440:LEU:CD2	2.35	1.01
26:Z:585:PRO:CB	26:Z:756:ARG:CZ	2.22	1.01
26:Z:588:PHE:CZ	26:Z:621:LYS:HE2	1.95	1.01
32:f:135:LEU:HB2	32:f:136:PRO:HD3	1.42	1.01
20:T:93:ILE:HD11	22:V:126:ILE:HD13	1.42	1.01
21:U:139:ILE:HD13	21:U:147:LYS:HE3	1.39	1.01
24:X:96:GLU:HA	37:k:19:PRO:HA	1.41	1.01
25:Y:135:ARG:CZ	25:Y:143:ARG:HE	1.72	1.01
25:Y:681:LEU:HD22	25:Y:696:TRP:CZ3	1.95	1.01
26:Z:621:LYS:CB	26:Z:621:LYS:HZ2	1.70	1.01
32:f:119:LEU:HD22	32:f:391:LYS:HB2	1.40	1.01
32:f:134:HIS:ND1	32:f:352:MET:HE2	1.74	1.01
34:h:124:CYS:H	34:h:130:LYS:NZ	1.36	1.01
35:i:133:GLU:HA	35:i:137:LYS:HE2	1.40	1.01
2:B:868:MET:HE3	29:c:182:ARG:CD	1.90	1.01
16:P:321:VAL:CB	16:P:340:GLY:HA2	1.91	1.01
25:Y:215:ASP:O	25:Y:218:ILE:HG22	1.59	1.01
25:Y:231:ILE:CG2	25:Y:457:ILE:HD11	1.91	1.01
25:Y:495:MET:HG3	25:Y:681:LEU:HB2	1.38	1.01
26:Z:757:ARG:CZ	26:Z:760:LEU:CB	2.39	1.01
32:f:110:ASP:OD2	33:g:92:LEU:CD2	2.07	1.01
34:h:14:LYS:CD	34:h:151:LEU:HA	1.90	1.01
1:A:344:ARG:CZ	2:B:1120:GLU:HG3	1.88	1.01
2:B:1185:CYS:SG	4:D:17:LYS:CD	2.48	1.01
17:Q:90:LEU:CD2	17:Q:251:PHE:CE2	2.44	1.01
17:Q:90:LEU:HD22	17:Q:251:PHE:HE2	1.20	1.01
18:R:62:PHE:CZ	18:R:201:ALA:CB	2.43	1.01
25:Y:248:LEU:HD21	25:Y:445:ALA:HB2	1.37	1.01
1:A:1445:ILE:CB	7:G:18:PHE:CZ	2.40	1.00
16:P:323:PHE:CB	16:P:339:TYR:O	2.09	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:135:LEU:CB	32:f:136:PRO:HD3	1.88	1.00
32:f:404:LEU:CD2	32:f:412:ARG:NH1	2.14	1.00
25:Y:68:LYS:HD2	25:Y:228:LYS:HG2	1.40	1.00
25:Y:124:ARG:HG2	25:Y:377:CYS:SG	2.01	1.00
25:Y:272:SER:HB2	25:Y:281:LYS:NZ	1.76	1.00
25:Y:288:LYS:NZ	25:Y:334:PHE:O	1.94	1.00
34:h:45:GLN:HB2	35:i:202:PHE:CD1	1.96	1.00
35:i:140:LYS:NZ	35:i:142:VAL:HG12	1.72	1.00
17:Q:98:ILE:HG23	17:Q:99:PRO:HD2	1.40	1.00
38:l:58:DG:H1'	38:l:59:DT:H5'	1.43	1.00
6:F:105:ALA:HA	7:G:14:HIS:CE1	1.96	1.00
20:T:122:HIS:CB	23:W:130:VAL:CG1	2.29	1.00
22:V:119:PRO:HA	22:V:122:TRP:NE1	1.53	1.00
25:Y:254:THR:HG21	25:Y:286:TYR:HE1	1.22	1.00
2:B:1215:ARG:HD2	4:D:15:LEU:HD13	1.03	1.00
25:Y:37:ASN:HB2	25:Y:456:VAL:HB	1.04	1.00
26:Z:560:PRO:O	26:Z:586:THR:CG2	2.09	1.00
38:l:40:DG:H2''	38:l:41:DA:C5'	1.90	1.00
22:V:119:PRO:CB	22:V:122:TRP:NE1	2.10	1.00
2:B:110:HIS:CE1	12:L:54:ARG:NH2	2.29	1.00
32:f:134:HIS:CG	32:f:352:MET:HE2	1.97	1.00
34:h:44:LYS:HE2	34:h:44:LYS:HA	1.44	1.00
35:i:231:LEU:HA	35:i:232:VAL:HG12	1.37	1.00
17:Q:75:LEU:HA	17:Q:98:ILE:CG2	1.92	0.99
25:Y:244:CYS:HB2	25:Y:442:ALA:HB1	1.44	0.99
26:Z:477:LEU:CA	26:Z:501:VAL:HB	1.92	0.99
33:g:295:PRO:O	33:g:299:ILE:HG13	1.60	0.99
25:Y:353:SER:HA	25:Y:356:PRO:CG	1.92	0.99
25:Y:481:LYS:HD3	25:Y:483:TYR:CE2	1.97	0.99
35:i:131:ALA:O	35:i:135:ILE:HG22	1.62	0.99
4:D:165:GLN:HE22	37:k:1:PRO:N	1.59	0.99
17:Q:20:ILE:HD12	17:Q:87:PHE:CZ	1.97	0.99
36:j:190:PHE:CD1	38:l:18:DA:N7	2.28	0.99
21:U:25:GLN:HB2	37:k:24:TYR:HB2	1.43	0.99
25:Y:328:ALA:HA	25:Y:417:LEU:CD2	1.91	0.99
26:Z:459:MET:HB2	26:Z:464:ARG:HD2	1.40	0.99
33:g:310:TYR:HH	35:i:150:TYR:CB	1.66	0.99
2:B:868:MET:HE3	29:c:182:ARG:CG	1.89	0.99
25:Y:197:ARG:O	25:Y:200:ILE:HG12	1.62	0.99
2:B:868:MET:HE3	29:c:182:ARG:HG2	1.40	0.99
21:U:25:GLN:CB	37:k:24:TYR:CG	2.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:190:LEU:HD13	25:Y:195:ILE:HD11	1.42	0.99
34:h:14:LYS:CD	34:h:151:LEU:CA	2.37	0.99
34:h:52:THR:CG2	35:i:237:LYS:CB	2.39	0.99
36:j:194:ILE:HD13	38:l:19:DT:O5'	1.60	0.99
20:T:119:ASN:N	23:W:131:ASP:OD2	1.96	0.99
25:Y:518:ILE:O	25:Y:522:TYR:HD2	1.36	0.99
36:j:194:ILE:HD13	38:l:19:DT:P	2.01	0.99
1:A:227:VAL:HG11	4:D:16:LYS:CG	1.91	0.99
1:A:1386:ARG:NH1	1:A:1403:GLU:OE1	1.95	0.99
26:Z:588:PHE:HE2	26:Z:621:LYS:HZ1	1.01	0.99
32:f:118:LEU:HD23	33:g:136:THR:HG22	1.02	0.99
35:i:140:LYS:HZ3	35:i:142:VAL:CG1	1.65	0.99
4:D:165:GLN:HE22	37:k:1:PRO:CD	1.73	0.99
17:Q:20:ILE:HD11	17:Q:87:PHE:HE2	1.16	0.99
21:U:25:GLN:HG3	37:k:24:TYR:CD2	1.92	0.99
25:Y:259:ARG:HB3	25:Y:379:GLU:OE1	1.62	0.99
25:Y:440:LEU:HD23	25:Y:641:PHE:CD2	1.97	0.99
35:i:131:ALA:O	35:i:135:ILE:CG2	2.11	0.99
35:i:148:LEU:O	35:i:152:SER:CA	2.10	0.99
1:A:1445:ILE:HG22	6:F:132:LEU:CD2	1.82	0.98
2:B:583:ASN:HD21	2:B:628:THR:HG22	1.27	0.98
35:i:130:TRP:CB	35:i:151:LEU:HD21	1.92	0.98
35:i:133:GLU:HG3	35:i:137:LYS:CE	1.92	0.98
1:A:1451:VAL:HG13	7:G:20:PRO:CG	1.92	0.98
20:T:111:THR:HA	22:V:143:LEU:HD22	1.42	0.98
35:i:127:LYS:HE3	35:i:127:LYS:H	1.24	0.98
17:Q:106:ARG:NH2	17:Q:211:PHE:CZ	2.31	0.98
22:V:112:LYS:HD2	22:V:119:PRO:HB3	1.45	0.98
25:Y:68:LYS:HB2	25:Y:228:LYS:CB	1.92	0.98
2:B:296:GLU:HG3	32:f:126:LYS:NZ	1.74	0.98
24:X:52:PRO:HG2	37:k:24:TYR:OH	1.61	0.98
26:Z:376:ASN:HB2	26:Z:380:ARG:HD3	1.45	0.98
38:l:39:DC:C2'	38:l:40:DG:H5'	1.92	0.98
24:X:52:PRO:CG	37:k:24:TYR:CZ	2.35	0.98
26:Z:476:PHE:CD1	26:Z:485:ILE:HD12	1.98	0.98
38:l:40:DG:C2'	38:l:41:DA:H5'	1.93	0.98
17:Q:20:ILE:HD12	17:Q:87:PHE:CE2	1.95	0.98
21:U:130:TYR:CE2	21:U:134:ILE:HD11	1.99	0.98
25:Y:103:PHE:HE1	25:Y:205:ILE:HD12	1.20	0.98
25:Y:567:LYS:CE	25:Y:597:ILE:HG21	1.92	0.98
26:Z:553:GLN:HB2	26:Z:701:PHE:CD2	1.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:42:DT:H2''	38:l:43:DT:H5'	1.46	0.98
18:R:43:ARG:NH2	18:R:117:MET:CE	2.26	0.98
25:Y:350:HIS:HB2	25:Y:384:LEU:HD12	1.43	0.98
26:Z:421:ARG:HA	26:Z:424:PHE:HD2	1.29	0.98
17:Q:97:LYS:HZ3	17:Q:244:SER:H	1.08	0.98
25:Y:603:ARG:CZ	25:Y:629:TYR:OH	2.11	0.98
33:g:308:ASP:CA	35:i:133:GLU:CD	2.37	0.98
34:h:151:LEU:HD13	34:h:151:LEU:H	1.29	0.98
20:T:87:LEU:HD12	20:T:90:TYR:CD2	1.99	0.97
25:Y:231:ILE:CA	25:Y:455:SER:HB2	1.92	0.97
25:Y:499:LYS:HB3	25:Y:522:TYR:CD1	1.97	0.97
25:Y:639:LEU:CD2	25:Y:649:ARG:CD	2.19	0.97
26:Z:425:LEU:HG	26:Z:429:THR:HA	1.40	0.97
34:h:127:CYS:SG	34:h:129:THR:CG2	2.51	0.97
20:T:55:LYS:HB3	20:T:62:ARG:HG3	1.46	0.97
25:Y:440:LEU:CD1	25:Y:638:ARG:HA	1.94	0.97
34:h:17:VAL:HG12	34:h:66:LEU:HG	1.38	0.97
36:j:114:LEU:HD22	39:m:143:DT:H2'	1.46	0.97
21:U:25:GLN:CG	37:k:24:TYR:HD2	1.66	0.97
25:Y:495:MET:HB3	25:Y:686:PHE:CE2	1.98	0.97
32:f:120:LYS:HZ3	33:g:72:ARG:CD	1.74	0.97
35:i:231:LEU:HA	35:i:232:VAL:CG1	1.93	0.97
36:j:122:VAL:CG1	38:l:22:DA:H2	1.78	0.97
39:m:102:DG:H2''	39:m:103:DT:C5'	1.94	0.97
2:B:72:GLU:OE2	32:f:153:ARG:O	1.81	0.97
6:F:96:THR:OG1	7:G:64:THR:C	2.08	0.97
17:Q:75:LEU:C	17:Q:98:ILE:CG2	2.33	0.97
26:Z:408:ILE:HB	26:Z:482:TRP:CD1	1.98	0.97
17:Q:86:ASN:ND2	17:Q:87:PHE:CE1	2.33	0.97
25:Y:124:ARG:CB	25:Y:377:CYS:SG	2.53	0.97
26:Z:460:VAL:HG11	38:l:65:DA:H5''	1.03	0.97
35:i:188:SER:OG	35:i:189:PRO:HD3	1.64	0.97
20:T:122:HIS:CE1	23:W:133:ILE:C	2.42	0.97
25:Y:190:LEU:HD13	25:Y:195:ILE:HD12	1.46	0.97
25:Y:259:ARG:HB3	25:Y:379:GLU:CD	1.89	0.97
35:i:135:ILE:HG13	35:i:180:TYR:HB2	1.46	0.97
26:Z:495:ALA:HB3	26:Z:498:PHE:HD2	1.29	0.97
32:f:118:LEU:HD12	32:f:387:ILE:HB	1.47	0.97
33:g:82:ARG:NE	33:g:108:LEU:HD11	1.78	0.97
34:h:154:GLU:CD	34:h:155:PRO:HD2	1.88	0.97
36:j:190:PHE:CE1	38:l:18:DA:N7	2.33	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:49:DC:C2'	38:l:50:DC:H5'	1.95	0.97
1:A:419:LYS:HB3	29:c:47:LEU:O	1.64	0.97
17:Q:97:LYS:HG2	17:Q:243:ASN:CG	1.89	0.97
26:Z:460:VAL:HG21	38:l:65:DA:O3'	1.65	0.97
32:f:376:LEU:HD21	32:f:386:MET:CE	1.94	0.97
35:i:226:GLU:O	35:i:230:ILE:HG13	1.65	0.97
1:A:1451:VAL:CG2	7:G:22:MET:HG3	1.95	0.97
17:Q:16:TYR:CE2	17:Q:87:PHE:CB	2.01	0.97
21:U:25:GLN:CD	37:k:24:TYR:CD2	2.43	0.97
25:Y:142:LYS:HA	25:Y:145:LEU:CD2	1.94	0.97
32:f:348:TYR:HE2	32:f:393:TYR:CE2	1.81	0.97
2:B:1217:TYR:OH	4:D:15:LEU:HA	1.64	0.96
25:Y:185:CYS:HB2	25:Y:192:PRO:HG3	1.47	0.96
25:Y:190:LEU:CD1	25:Y:195:ILE:CD1	2.42	0.96
26:Z:458:SER:HA	26:Z:465:ASN:HB2	1.47	0.96
36:j:114:LEU:HD13	39:m:143:DT:C2	1.99	0.96
25:Y:353:SER:C	25:Y:356:PRO:CD	2.38	0.96
25:Y:538:VAL:HG22	25:Y:598:LEU:HB2	1.47	0.96
32:f:108:LYS:HD2	33:g:95:ILE:CD1	1.94	0.96
33:g:310:TYR:OH	35:i:150:TYR:C	2.08	0.96
35:i:194:LYS:HZ2	35:i:210:LEU:HD11	1.19	0.96
20:T:90:TYR:HB3	22:V:112:LYS:H	1.28	0.96
25:Y:245:ILE:HG23	25:Y:439:CYS:O	1.63	0.96
35:i:140:LYS:HE3	35:i:140:LYS:N	1.80	0.96
25:Y:128:VAL:HG21	25:Y:375:ARG:HA	1.46	0.96
26:Z:460:VAL:CG1	38:l:65:DA:C4'	2.43	0.96
26:Z:757:ARG:NH2	26:Z:760:LEU:CG	2.27	0.96
32:f:121:PHE:CE1	32:f:395:PHE:CD2	2.53	0.96
35:i:142:VAL:HG21	35:i:147:LEU:HG	1.45	0.96
36:j:118:SER:HB3	38:l:24:DT:H4'	0.97	0.96
16:P:240:SER:HA	37:k:6:THR:OG1	0.79	0.96
17:Q:79:THR:O	17:Q:82:ASP:HB2	1.63	0.96
18:R:4:SER:HB2	18:R:200:LEU:HD23	1.48	0.96
25:Y:349:LEU:HD12	25:Y:380:ARG:HE	1.22	0.96
32:f:118:LEU:CD2	33:g:136:THR:HG22	1.94	0.96
1:A:195:ASP:CB	39:m:117:DG:P	2.54	0.96
20:T:122:HIS:N	23:W:130:VAL:HG13	1.80	0.96
32:f:374:VAL:HG21	32:f:386:MET:CE	1.95	0.96
25:Y:603:ARG:NH2	25:Y:629:TYR:OH	1.99	0.96
26:Z:407:VAL:HG13	26:Z:452:LEU:H	1.29	0.96
35:i:159:VAL:HG22	35:i:160:ILE:HG23	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:j:116:PHE:CZ	38:l:23:DA:H2	1.51	0.96
20:T:87:LEU:HA	20:T:90:TYR:CE2	2.00	0.96
25:Y:586:TYR:CD2	25:Y:598:LEU:HG	2.01	0.96
26:Z:297:ILE:HG22	26:Z:308:ASP:HB2	1.47	0.96
26:Z:656:LYS:O	26:Z:656:LYS:HD2	1.65	0.96
32:f:103:LEU:HD23	33:g:98:ASN:HA	1.45	0.96
32:f:145:ARG:HB3	32:f:341:LYS:NZ	1.79	0.96
25:Y:193:TYR:CE2	25:Y:197:ARG:CD	2.48	0.96
20:T:114:ILE:HD12	22:V:147:LEU:HD12	1.48	0.96
21:U:25:GLN:CB	37:k:24:TYR:CB	2.43	0.96
6:F:105:ALA:HB2	7:G:14:HIS:CE1	1.91	0.95
22:V:81:ASN:HB2	22:V:90:LEU:CD2	1.96	0.95
25:Y:162:LEU:HD23	25:Y:195:ILE:HG13	1.48	0.95
35:i:200:VAL:HG13	35:i:201:THR:HG23	1.47	0.95
6:F:92:ARG:HE	7:G:64:THR:CA	1.77	0.95
25:Y:237:ALA:CB	25:Y:458:ILE:HG23	1.95	0.95
25:Y:348:VAL:C	25:Y:380:ARG:HH22	1.73	0.95
32:f:386:MET:CE	33:g:73:LEU:CD1	2.36	0.95
1:A:344:ARG:HD2	2:B:1118:PRO:O	1.64	0.95
25:Y:499:LYS:CB	25:Y:522:TYR:CE1	2.48	0.95
26:Z:410:LEU:HB2	26:Z:466:ARG:HH22	1.27	0.95
26:Z:668:THR:HG21	26:Z:694:LYS:HB3	0.97	0.95
32:f:137:VAL:HG23	32:f:352:MET:SD	2.06	0.95
38:l:59:DT:C1'	38:l:60:DT:H5'	1.96	0.95
25:Y:193:TYR:OH	25:Y:221:ARG:NH2	1.97	0.95
25:Y:467:ASP:O	25:Y:470:PRO:HG2	1.67	0.95
25:Y:679:MET:HE2	25:Y:681:LEU:HD11	1.49	0.95
35:i:140:LYS:HZ2	35:i:142:VAL:CG1	1.73	0.95
1:A:419:LYS:HZ2	29:c:48:CYS:HB3	1.21	0.95
2:B:350:GLN:NE2	32:f:411:LYS:CE	2.27	0.95
26:Z:584:ASN:HD21	26:Z:586:THR:CG2	1.78	0.95
17:Q:75:LEU:HB3	17:Q:98:ILE:HD13	1.48	0.95
20:T:122:HIS:NE2	23:W:133:ILE:C	2.24	0.95
25:Y:289:LEU:HD23	25:Y:435:MET:SD	2.04	0.95
26:Z:588:PHE:CZ	26:Z:621:LYS:CE	2.49	0.95
32:f:137:VAL:CG2	32:f:352:MET:SD	2.55	0.95
32:f:386:MET:HE1	33:g:73:LEU:HD11	1.45	0.95
35:i:148:LEU:HD12	35:i:154:LYS:HZ2	1.29	0.95
25:Y:259:ARG:CB	25:Y:379:GLU:OE1	2.15	0.95
38:l:49:DC:H2''	38:l:50:DC:C5'	1.97	0.95
38:l:60:DT:H2''	38:l:61:DG:C8	2.02	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:V:83:LEU:CA	22:V:87:LEU:HB2	1.95	0.95
26:Z:561:MET:HB3	27:a:450:ARG:NH2	1.81	0.95
34:h:52:THR:CB	35:i:237:LYS:CD	2.43	0.95
34:h:56:PRO:HG3	35:i:237:LYS:HZ1	1.31	0.95
17:Q:85:LEU:HD12	17:Q:88:ARG:HB3	1.47	0.94
25:Y:28:ILE:CB	25:Y:57:ILE:HG13	1.96	0.94
25:Y:37:ASN:HB3	25:Y:456:VAL:CG2	1.95	0.94
25:Y:495:MET:HB3	25:Y:686:PHE:CG	2.01	0.94
26:Z:588:PHE:CE2	26:Z:621:LYS:HE2	2.02	0.94
32:f:333:LYS:HE2	39:m:130:DC:O3'	1.37	0.94
32:f:376:LEU:CD2	32:f:386:MET:SD	2.51	0.94
32:f:333:LYS:HZ1	39:m:131:DG:P	1.22	0.94
1:A:1450:LEU:HD11	7:G:15:PRO:O	1.65	0.94
2:B:560:GLU:O	33:g:225:MET:HE2	1.64	0.94
26:Z:474:MET:HB2	26:Z:480:ARG:CA	1.97	0.94
2:B:326:ASP:HB3	40:n:60:PRO:CA	1.98	0.94
25:Y:440:LEU:CD2	25:Y:641:PHE:CB	2.31	0.94
25:Y:666:LEU:HD23	25:Y:679:MET:SD	2.07	0.94
34:h:151:LEU:CD2	34:h:152:CYS:HB3	1.97	0.94
25:Y:450:PHE:HZ	25:Y:475:PHE:HA	1.33	0.94
25:Y:649:ARG:O	25:Y:653:PHE:CD1	2.21	0.94
32:f:374:VAL:HG22	33:g:73:LEU:HG	1.47	0.94
25:Y:420:ILE:HD11	25:Y:633:ARG:HH21	1.29	0.94
33:g:306:LEU:HG	33:g:313:TRP:CE2	2.03	0.94
25:Y:71:TYR:CD2	25:Y:233:ILE:HG21	2.01	0.94
26:Z:397:ILE:HG23	26:Z:427:TRP:CZ2	2.01	0.94
26:Z:460:VAL:HG12	38:l:65:DA:H5''	1.49	0.94
34:h:141:ASN:ND2	34:h:148:LEU:HD12	1.80	0.94
25:Y:28:ILE:HG21	25:Y:57:ILE:HG21	1.47	0.94
25:Y:328:ALA:HA	25:Y:417:LEU:HD22	0.96	0.94
25:Y:683:ASP:O	25:Y:686:PHE:HD2	1.26	0.94
35:i:183:THR:HG22	35:i:225:GLU:OE2	1.67	0.94
1:A:1451:VAL:HG23	7:G:22:MET:CG	1.97	0.94
25:Y:58:ALA:O	25:Y:62:HIS:CD2	2.20	0.94
17:Q:97:LYS:NZ	17:Q:244:SER:H	1.56	0.93
26:Z:410:LEU:HD11	26:Z:457:TYR:CA	1.99	0.93
32:f:138:ARG:NH1	33:g:57:LEU:HD12	1.80	0.93
39:m:102:DG:C2'	39:m:103:DT:H5'	1.97	0.93
26:Z:585:PRO:CB	26:Z:756:ARG:NH2	2.31	0.93
32:f:376:LEU:HD21	32:f:386:MET:HE3	1.50	0.93
6:F:92:ARG:NE	7:G:64:THR:N	2.15	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:253:THR:HG22	25:Y:434:ILE:HD13	1.48	0.93
32:f:342:LEU:HD12	32:f:345:GLU:CD	1.92	0.93
35:i:125:SER:N	35:i:127:LYS:HZ3	1.46	0.93
38:l:40:DG:H2''	38:l:41:DA:H5'	0.97	0.93
1:A:1445:ILE:O	7:G:68:ALA:CB	2.16	0.93
33:g:74:PRO:HG2	33:g:223:GLN:CA	1.98	0.93
36:j:100:ALA:HB3	39:m:142:DA:H2	1.33	0.93
1:A:1447:GLU:CG	7:G:70:PHE:CZ	2.41	0.93
6:F:105:ALA:HB1	7:G:14:HIS:CE1	2.04	0.93
25:Y:327:ARG:NH1	25:Y:330:HIS:NE2	2.16	0.93
1:A:227:VAL:HG11	4:D:16:LYS:HG3	1.50	0.93
20:T:56:LEU:HB2	20:T:69:ILE:HG21	1.50	0.93
25:Y:124:ARG:NH2	25:Y:381:LEU:CD2	2.30	0.93
25:Y:656:PHE:HA	25:Y:659:MET:HE3	1.51	0.93
36:j:190:PHE:HD1	38:l:18:DA:C8	1.68	0.93
25:Y:259:ARG:C	25:Y:379:GLU:OE1	2.12	0.93
25:Y:526:LEU:HD23	25:Y:554:TRP:CZ3	2.04	0.93
25:Y:639:LEU:HD23	25:Y:649:ARG:HB2	1.50	0.93
26:Z:368:LYS:HD2	26:Z:372:LYS:HE2	1.50	0.93
25:Y:349:LEU:HA	25:Y:380:ARG:HH21	1.27	0.93
25:Y:571:VAL:HG12	25:Y:572:GLU:N	1.80	0.93
25:Y:646:TYR:HB2	25:Y:648:ILE:HG12	1.51	0.93
31:e:87:VAL:HG12	31:e:88:GLU:H	1.32	0.93
32:f:145:ARG:CB	32:f:341:LYS:NZ	2.32	0.93
33:g:310:TYR:CD1	35:i:134:TYR:HD1	1.86	0.93
35:i:186:VAL:HG12	35:i:189:PRO:HD2	1.48	0.93
20:T:42:LEU:HD23	22:V:105:ILE:CD1	1.99	0.93
21:U:132:GLU:CD	21:U:139:ILE:HD11	1.92	0.93
25:Y:393:VAL:HG11	25:Y:437:PHE:CD2	2.04	0.93
32:f:138:ARG:NH1	33:g:57:LEU:CD1	2.31	0.93
34:h:43:LEU:HB3	34:h:54:LEU:HD21	1.48	0.93
25:Y:251:ASP:HB3	25:Y:436:ARG:CZ	1.99	0.92
25:Y:353:SER:H	25:Y:380:ARG:HH11	1.15	0.92
25:Y:492:PHE:CE2	25:Y:707:ASN:OD1	2.21	0.92
26:Z:584:ASN:OD1	26:Z:586:THR:HG22	1.67	0.92
34:h:124:CYS:N	34:h:130:LYS:HZ1	1.37	0.92
37:k:3:TYR:O	37:k:4:SER:OG	1.86	0.92
32:f:103:LEU:CD2	33:g:98:ASN:CB	2.48	0.92
32:f:386:MET:HE1	33:g:75:MET:SD	2.09	0.92
20:T:100:ILE:HD12	22:V:129:ARG:CB	1.98	0.92
34:h:17:VAL:HG11	34:h:29:LEU:HD22	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:45:GLN:CD	35:i:202:PHE:CE1	2.47	0.92
35:i:156:ASP:O	35:i:159:VAL:CG1	2.17	0.92
17:Q:16:TYR:CD2	17:Q:87:PHE:HB3	2.03	0.92
25:Y:200:ILE:C	25:Y:226:VAL:CG2	2.41	0.92
25:Y:393:VAL:HG21	25:Y:437:PHE:CE1	2.04	0.92
25:Y:586:TYR:CD2	25:Y:598:LEU:CG	2.51	0.92
25:Y:657:ASP:OD1	25:Y:660:ARG:NH2	2.02	0.92
26:Z:424:PHE:CE1	26:Z:450:SER:HB3	2.04	0.92
33:g:74:PRO:HD3	33:g:222:CYS:O	1.68	0.92
2:B:430:ARG:CA	32:f:326:ARG:HH12	1.82	0.92
17:Q:108:ILE:HD13	17:Q:159:GLU:HB2	1.51	0.92
25:Y:254:THR:OG1	25:Y:433:PRO:HG2	1.69	0.92
35:i:158:LYS:HZ2	35:i:162:LEU:HG	1.19	0.92
2:B:902:GLY:O	12:L:65:VAL:CG1	2.17	0.92
20:T:122:HIS:CG	23:W:131:ASP:C	2.46	0.92
25:Y:288:LYS:CG	25:Y:335:LEU:CB	2.18	0.92
26:Z:439:THR:HG22	26:Z:440:SER:H	1.34	0.92
35:i:238:ASP:CG	35:i:243:TYR:CZ	2.47	0.92
9:I:28:GLU:OE1	40:n:21:VAL:CA	2.18	0.92
25:Y:253:THR:CG2	25:Y:434:ILE:HD13	1.99	0.92
25:Y:293:LEU:CD1	25:Y:433:PRO:HB3	2.00	0.92
26:Z:429:THR:HB	26:Z:432:PRO:HD2	1.50	0.92
26:Z:466:ARG:HB2	26:Z:477:LEU:HD22	1.48	0.92
34:h:34:PHE:HE2	34:h:134:LEU:HD21	1.32	0.92
35:i:236:LYS:CE	35:i:243:TYR:CD2	2.52	0.92
6:F:76:LYS:HA	6:F:79:ARG:HD3	1.52	0.92
25:Y:272:SER:HG	25:Y:281:LYS:HE3	1.13	0.92
26:Z:376:ASN:HB3	26:Z:380:ARG:H	1.32	0.92
26:Z:668:THR:HG23	26:Z:694:LYS:HB2	1.50	0.92
32:f:108:LYS:HD2	33:g:95:ILE:HG13	0.93	0.92
35:i:219:GLU:OE1	35:i:219:GLU:HA	1.69	0.92
25:Y:420:ILE:HG13	25:Y:633:ARG:HH22	1.33	0.92
32:f:138:ARG:HH12	33:g:57:LEU:HB2	1.22	0.92
25:Y:70:ILE:HD12	25:Y:208:TYR:OH	1.70	0.92
25:Y:418:LEU:CD1	25:Y:634:ILE:CG1	2.47	0.92
26:Z:297:ILE:CG2	26:Z:308:ASP:HB2	1.99	0.92
35:i:130:TRP:HD1	35:i:151:LEU:HG	1.21	0.92
35:i:236:LYS:CE	35:i:243:TYR:CG	2.53	0.92
25:Y:499:LYS:HD2	25:Y:522:TYR:CA	2.00	0.91
26:Z:585:PRO:HB2	26:Z:756:ARG:HH22	1.28	0.91
18:R:4:SER:HB2	18:R:200:LEU:CD2	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:42:MET:SD	25:Y:53:LEU:HD12	2.10	0.91
25:Y:342:LEU:HD23	25:Y:345:ARG:NH2	1.83	0.91
24:X:52:PRO:CG	37:k:24:TYR:HE2	1.82	0.91
25:Y:567:LYS:HG2	25:Y:597:ILE:HB	1.52	0.91
32:f:118:LEU:CD2	33:g:136:THR:CG2	2.48	0.91
32:f:376:LEU:HD11	33:g:73:LEU:HD13	1.49	0.91
35:i:189:PRO:O	35:i:193:LEU:CD2	2.18	0.91
1:A:1447:GLU:HB3	7:G:22:MET:HE2	1.52	0.91
25:Y:142:LYS:HA	25:Y:145:LEU:HD21	1.50	0.91
25:Y:416:PHE:CD2	25:Y:637:ALA:HB1	2.06	0.91
25:Y:639:LEU:HB2	25:Y:653:PHE:HD2	1.19	0.91
26:Z:585:PRO:CG	26:Z:756:ARG:NH1	2.33	0.91
34:h:27:LEU:CD2	34:h:128:LEU:C	2.41	0.91
34:h:44:LYS:HG3	34:h:51:LYS:CA	1.99	0.91
34:h:120:ASN:ND2	34:h:133:GLN:HB3	1.83	0.91
25:Y:185:CYS:CB	25:Y:192:PRO:HG3	1.99	0.91
25:Y:327:ARG:O	25:Y:417:LEU:HD23	1.70	0.91
25:Y:419:ILE:CA	25:Y:633:ARG:NH1	2.21	0.91
25:Y:493:LEU:CD2	25:Y:696:TRP:NE1	2.11	0.91
26:Z:588:PHE:CE2	26:Z:621:LYS:CE	2.53	0.91
32:f:404:LEU:HD22	32:f:412:ARG:HH12	1.18	0.91
17:Q:16:TYR:HE2	17:Q:87:PHE:HB3	0.81	0.91
25:Y:67:ARG:HB3	25:Y:230:SER:HB2	1.50	0.91
32:f:106:ILE:HD12	32:f:384:PHE:HE1	1.35	0.91
32:f:145:ARG:HB3	32:f:341:LYS:HZ1	1.34	0.91
35:i:125:SER:O	35:i:129:LEU:CD1	2.18	0.91
1:A:368:LYS:HG3	1:A:399:HIS:HD2	1.34	0.91
2:B:1220:ARG:HA	4:D:14:ARG:NH2	1.82	0.91
26:Z:424:PHE:HB3	26:Z:449:GLU:CG	2.00	0.91
32:f:376:LEU:HD22	32:f:386:MET:CG	2.00	0.91
26:Z:403:ILE:CG2	26:Z:405:LYS:HG2	2.00	0.91
26:Z:403:ILE:HG22	26:Z:405:LYS:HG2	1.53	0.91
38:l:59:DT:C2'	38:l:60:DT:H5'	2.01	0.91
21:U:132:GLU:HB3	21:U:139:ILE:HD12	1.49	0.91
26:Z:467:SER:N	26:Z:477:LEU:HD23	1.86	0.91
32:f:121:PHE:HE1	32:f:395:PHE:CE2	1.89	0.91
35:i:164:LYS:CD	35:i:165:LYS:HG2	2.00	0.91
36:j:190:PHE:CZ	38:l:18:DA:C4	2.59	0.91
1:A:1445:ILE:HG22	6:F:132:LEU:HD23	0.93	0.91
25:Y:103:PHE:CE1	25:Y:205:ILE:CD1	2.53	0.91
26:Z:527:LEU:HD22	26:Z:531:ILE:CD1	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:397:ILE:HG23	26:Z:427:TRP:CH2	2.06	0.90
26:Z:408:ILE:HD11	26:Z:466:ARG:HD3	1.53	0.90
32:f:348:TYR:CE2	32:f:393:TYR:CE2	2.58	0.90
33:g:310:TYR:CE1	35:i:134:TYR:HD1	1.78	0.90
35:i:184:TYR:CE2	35:i:189:PRO:CG	2.51	0.90
16:P:321:VAL:CB	16:P:340:GLY:HA3	2.01	0.90
22:V:117:LYS:HZ2	22:V:121:GLU:HG2	1.09	0.90
25:Y:190:LEU:HD13	25:Y:195:ILE:HD13	1.52	0.90
26:Z:474:MET:HB3	26:Z:482:TRP:N	1.85	0.90
26:Z:477:LEU:HA	26:Z:501:VAL:CB	2.00	0.90
32:f:357:GLY:CA	40:n:53:LYS:CA	2.48	0.90
34:h:14:LYS:HD2	34:h:151:LEU:HA	1.51	0.90
38:l:58:DG:C1'	38:l:59:DT:H5'	2.00	0.90
25:Y:357:LYS:HE3	25:Y:376:PHE:HD1	1.08	0.90
26:Z:417:VAL:HG13	26:Z:454:VAL:CG1	2.01	0.90
26:Z:516:THR:N	26:Z:681:ARG:HD3	1.83	0.90
2:B:451:LYS:CE	29:c:138:ASP:OD2	2.19	0.90
25:Y:124:ARG:HH21	25:Y:381:LEU:HD23	1.27	0.90
25:Y:272:SER:HB2	25:Y:348:VAL:HG11	1.53	0.90
26:Z:516:THR:HA	26:Z:681:ARG:CZ	2.01	0.90
26:Z:717:TYR:CE2	26:Z:718:TYR:HE1	1.56	0.90
1:A:1438:THR:HG22	2:B:1144:ALA:HB3	1.52	0.90
25:Y:60:GLN:O	25:Y:64:PRO:HD3	1.71	0.90
25:Y:349:LEU:CD1	25:Y:380:ARG:HG3	2.00	0.90
34:h:120:ASN:CG	34:h:133:GLN:CB	2.45	0.90
1:A:227:VAL:CG2	4:D:16:LYS:CE	2.50	0.90
17:Q:20:ILE:HG13	17:Q:87:PHE:CD2	2.06	0.90
25:Y:135:ARG:HH21	25:Y:143:ARG:HE	1.17	0.90
25:Y:327:ARG:HB2	25:Y:330:HIS:ND1	1.86	0.90
25:Y:378:SER:OG	25:Y:381:LEU:HB3	1.70	0.90
25:Y:519:VAL:HG13	25:Y:550:ILE:HD13	1.53	0.90
26:Z:588:PHE:CZ	26:Z:621:LYS:NZ	2.39	0.90
1:A:1445:ILE:HB	7:G:18:PHE:CZ	2.01	0.90
25:Y:293:LEU:HD23	25:Y:419:ILE:HG22	1.53	0.90
25:Y:497:ILE:CG2	25:Y:684:ARG:HG2	2.01	0.90
26:Z:470:SER:C	26:Z:478:THR:HG23	1.97	0.90
20:T:122:HIS:HE2	23:W:133:ILE:C	1.79	0.90
25:Y:171:LEU:HB2	25:Y:172:PRO:HD3	1.52	0.90
25:Y:495:MET:CB	25:Y:686:PHE:CD1	2.55	0.90
32:f:119:LEU:HD23	32:f:391:LYS:N	1.85	0.90
33:g:310:TYR:CZ	35:i:150:TYR:O	2.25	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:451:LYS:CD	29:c:138:ASP:OD2	2.20	0.90
18:R:142:LEU:HD11	18:R:152:LEU:HD12	1.53	0.90
25:Y:229:ASP:CA	25:Y:453:PHE:CB	2.49	0.90
34:h:52:THR:CB	35:i:237:LYS:HD3	2.00	0.90
34:h:52:THR:HG21	35:i:237:LYS:CB	2.02	0.90
35:i:132:THR:O	35:i:136:GLN:HG3	1.72	0.90
35:i:236:LYS:HE2	35:i:243:TYR:CD2	2.07	0.90
16:P:394:PHE:HA	16:P:407:GLY:HA2	1.54	0.90
17:Q:97:LYS:HG2	17:Q:243:ASN:ND2	1.87	0.90
26:Z:698:ASP:O	26:Z:699:GLU:HG3	1.72	0.90
33:g:113:ASN:CG	33:g:115:SER:HB3	1.95	0.90
35:i:137:LYS:H	35:i:137:LYS:HD3	1.37	0.90
1:A:368:LYS:HG3	1:A:399:HIS:CD2	2.06	0.89
25:Y:60:GLN:O	25:Y:64:PRO:HD2	1.71	0.89
25:Y:353:SER:C	25:Y:356:PRO:CG	2.45	0.89
33:g:306:LEU:HD12	33:g:313:TRP:CZ2	2.07	0.89
35:i:135:ILE:HG12	35:i:180:TYR:HB2	1.53	0.89
25:Y:416:PHE:CZ	25:Y:440:LEU:HD22	2.06	0.89
26:Z:712:ASP:N	27:a:449:ASP:OD2	2.02	0.89
33:g:308:ASP:O	35:i:133:GLU:OE1	1.91	0.89
34:h:17:VAL:CG1	34:h:66:LEU:CD1	2.50	0.89
1:A:49:LYS:HE2	1:A:61:ILE:CD1	2.02	0.89
1:A:1445:ILE:CB	7:G:18:PHE:HE2	1.64	0.89
20:T:122:HIS:HB2	23:W:130:VAL:CG1	1.99	0.89
25:Y:288:LYS:HG3	25:Y:335:LEU:CG	2.02	0.89
25:Y:419:ILE:N	25:Y:633:ARG:HH11	1.71	0.89
25:Y:499:LYS:NZ	25:Y:525:MET:HB2	1.88	0.89
33:g:86:ASN:HD21	33:g:92:LEU:HB3	1.35	0.89
35:i:143:LEU:HD13	35:i:144:VAL:H	1.37	0.89
18:R:43:ARG:CZ	18:R:117:MET:HE1	2.03	0.89
26:Z:459:MET:HB2	26:Z:464:ARG:CD	2.01	0.89
33:g:299:ILE:HD11	33:g:324:GLN:OE1	1.72	0.89
38:l:57:DT:H2"	38:l:58:DG:C8	2.08	0.89
25:Y:418:LEU:HB3	25:Y:633:ARG:CZ	2.02	0.89
25:Y:650:GLU:HA	25:Y:653:PHE:HE1	1.34	0.89
32:f:145:ARG:CB	32:f:341:LYS:HZ2	1.84	0.89
34:h:56:PRO:HG2	35:i:237:LYS:HZ3	1.14	0.89
20:T:122:HIS:CG	23:W:130:VAL:HG12	2.07	0.89
25:Y:237:ALA:HB1	25:Y:458:ILE:HG23	1.51	0.89
35:i:236:LYS:HD2	35:i:245:TRP:HZ2	1.28	0.89
25:Y:293:LEU:HD23	25:Y:419:ILE:CG2	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:419:ILE:CD1	25:Y:435:MET:HG2	2.01	0.89
26:Z:757:ARG:NH1	26:Z:760:LEU:HB3	1.84	0.89
34:h:28:VAL:HG13	34:h:43:LEU:CD2	2.03	0.89
35:i:133:GLU:CA	35:i:137:LYS:HE2	1.98	0.89
1:A:1442:ASP:HA	7:G:63:PRO:HG2	0.92	0.89
1:A:1451:VAL:CG1	7:G:20:PRO:CB	2.46	0.89
25:Y:603:ARG:NH1	25:Y:629:TYR:CZ	2.40	0.89
33:g:306:LEU:CD2	33:g:318:LEU:HD23	2.03	0.89
1:A:36:ARG:NH2	1:A:57:ARG:NH1	2.21	0.89
25:Y:131:GLU:OE1	25:Y:134:ARG:NH1	2.06	0.89
25:Y:495:MET:CB	25:Y:686:PHE:CG	2.56	0.89
32:f:139:LEU:CD1	32:f:350:TRP:CZ2	2.56	0.89
35:i:231:LEU:HA	35:i:232:VAL:CB	2.02	0.89
1:A:1451:VAL:HG23	7:G:22:MET:HG3	1.52	0.89
26:Z:362:ILE:HG23	26:Z:366:GLN:HB2	1.54	0.89
33:g:310:TYR:HE1	35:i:134:TYR:CE1	1.91	0.89
35:i:131:ALA:CA	35:i:151:LEU:HD12	1.95	0.89
1:A:1445:ILE:CG2	7:G:18:PHE:CE2	2.49	0.88
2:B:868:MET:HE1	29:c:182:ARG:HG2	0.91	0.88
18:R:62:PHE:HZ	18:R:201:ALA:HB1	1.39	0.88
25:Y:124:ARG:HG3	25:Y:376:PHE:O	1.72	0.88
26:Z:487:LEU:CD2	26:Z:490:VAL:HG23	2.02	0.88
33:g:350:THR:HG23	35:i:130:TRP:HZ3	0.75	0.88
34:h:52:THR:HG21	35:i:237:LYS:HB2	1.55	0.88
35:i:158:LYS:HZ2	35:i:162:LEU:CG	1.85	0.88
35:i:170:GLU:C	35:i:179:LYS:CD	2.38	0.88
33:g:118:HIS:ND1	33:g:120:TYR:CE2	2.42	0.88
33:g:307:PHE:CZ	33:g:349:TYR:CZ	2.60	0.88
36:j:116:PHE:HZ	38:l:23:DA:C2	1.78	0.88
25:Y:248:LEU:CD2	25:Y:445:ALA:HB2	2.03	0.88
25:Y:276:LYS:HA	25:Y:280:GLN:OE1	1.73	0.88
25:Y:346:MET:HB3	25:Y:384:LEU:HD21	1.53	0.88
35:i:194:LYS:NZ	35:i:210:LEU:CD1	2.35	0.88
25:Y:68:LYS:HE3	25:Y:228:LYS:HE3	1.55	0.88
25:Y:124:ARG:CG	25:Y:377:CYS:SG	2.61	0.88
26:Z:307:ASP:HB2	26:Z:323:VAL:HB	1.53	0.88
26:Z:621:LYS:HB3	26:Z:621:LYS:HZ3	1.13	0.88
32:f:139:LEU:HD13	32:f:350:TRP:CZ2	2.08	0.88
6:F:132:LEU:CD2	7:G:66:GLY:O	2.21	0.88
17:Q:90:LEU:HD22	17:Q:251:PHE:CE2	2.05	0.88
20:T:122:HIS:CB	23:W:131:ASP:CA	2.45	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:V:85:ASN:HA	22:V:88:GLU:OE2	1.73	0.88
25:Y:103:PHE:HE1	25:Y:205:ILE:CD1	1.85	0.88
26:Z:457:TYR:HB3	26:Z:498:PHE:CD1	2.08	0.88
34:h:44:LYS:CD	34:h:54:LEU:HB2	2.02	0.88
35:i:148:LEU:O	35:i:152:SER:HA	1.71	0.88
35:i:170:GLU:C	35:i:179:LYS:HD2	1.94	0.88
35:i:207:CYS:SG	35:i:208:LYS:NZ	2.46	0.88
1:A:417:TYR:CE2	29:c:37:ARG:HD3	2.09	0.88
16:P:410:VAL:CB	16:P:502:ASN:N	2.37	0.88
25:Y:419:ILE:N	25:Y:633:ARG:HH12	1.46	0.88
26:Z:347:HIS:CD2	26:Z:348:ARG:HG3	2.08	0.88
26:Z:447:GLN:N	26:Z:452:LEU:HD13	1.89	0.88
31:e:86:THR:HG22	31:e:105:VAL:HG22	1.53	0.88
33:g:104:ILE:CG2	33:g:122:LEU:HD22	2.03	0.88
35:i:140:LYS:HZ1	35:i:142:VAL:HG11	1.05	0.88
17:Q:61:PRO:HG2	17:Q:300:VAL:CG2	2.04	0.88
20:T:50:GLU:CG	22:V:98:LEU:HD13	1.99	0.88
22:V:83:LEU:HA	22:V:87:LEU:CB	2.04	0.88
26:Z:456:THR:HB	26:Z:465:ASN:CG	1.98	0.88
32:f:121:PHE:CE1	32:f:395:PHE:CE1	2.60	0.88
33:g:63:ARG:CB	33:g:214:ILE:O	2.18	0.88
34:h:46:LEU:HD21	34:h:132:THR:HG21	1.32	0.88
35:i:236:LYS:HB2	35:i:245:TRP:CH2	2.08	0.88
36:j:99:PHE:HB3	39:m:143:DT:H5'	1.56	0.88
37:k:4:SER:HB2	37:k:5:PRO:HD3	1.54	0.88
17:Q:85:LEU:CD1	17:Q:88:ARG:H	1.87	0.88
21:U:24:THR:HA	37:k:24:TYR:HE1	1.33	0.88
25:Y:393:VAL:CG1	25:Y:437:PHE:CE2	2.56	0.88
21:U:134:ILE:HD13	23:W:63:SER:HB2	1.54	0.88
26:Z:460:VAL:HB	38:l:65:DA:H4'	1.55	0.88
26:Z:477:LEU:HG	26:Z:501:VAL:HG11	1.56	0.88
34:h:14:LYS:HD3	34:h:151:LEU:HB3	0.88	0.88
34:h:154:GLU:CD	34:h:155:PRO:HD3	1.95	0.88
38:l:56:DG:H1'	38:l:57:DT:H5'	1.56	0.88
1:A:1443:VAL:HB	7:G:63:PRO:HA	1.54	0.88
17:Q:108:ILE:HG21	17:Q:159:GLU:CB	2.04	0.88
25:Y:124:ARG:HG2	25:Y:377:CYS:CA	2.04	0.88
32:f:137:VAL:CG1	33:g:61:LEU:HD21	2.04	0.88
34:h:17:VAL:HG12	34:h:66:LEU:CD1	2.04	0.88
38:l:39:DC:H2''	38:l:40:DG:C5'	2.02	0.88
1:A:1445:ILE:HG23	7:G:66:GLY:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:70:ILE:HB	25:Y:208:TYR:CE2	2.09	0.87
25:Y:229:ASP:C	25:Y:453:PHE:CB	2.47	0.87
32:f:114:MET:HE2	32:f:387:ILE:CD1	2.04	0.87
26:Z:405:LYS:HD3	26:Z:483:GLY:CA	2.03	0.87
26:Z:421:ARG:HA	26:Z:424:PHE:CD2	2.09	0.87
33:g:308:ASP:C	35:i:133:GLU:OE1	2.17	0.87
33:g:318:LEU:CD1	33:g:349:TYR:CE2	2.57	0.87
17:Q:90:LEU:HD23	17:Q:251:PHE:CE2	2.08	0.87
22:V:146:LYS:CD	23:W:129:PHE:CE1	2.46	0.87
25:Y:567:LYS:HE2	25:Y:597:ILE:HD13	1.56	0.87
1:A:1451:VAL:HG11	7:G:20:PRO:CA	1.90	0.87
6:F:105:ALA:CA	7:G:14:HIS:CE1	2.48	0.87
20:T:55:LYS:HD2	20:T:60:VAL:CG1	2.04	0.87
22:V:125:ILE:HG23	22:V:126:ILE:HD12	1.56	0.87
25:Y:272:SER:CB	25:Y:281:LYS:HZ2	1.86	0.87
25:Y:528:GLU:O	25:Y:532:ILE:HG13	1.72	0.87
26:Z:410:LEU:CD2	26:Z:477:LEU:HD11	2.04	0.87
26:Z:424:PHE:CD1	26:Z:450:SER:HB3	2.10	0.87
32:f:145:ARG:HB2	32:f:341:LYS:HZ2	1.35	0.87
33:g:104:ILE:HG22	33:g:122:LEU:HD22	1.56	0.87
33:g:306:LEU:CD1	33:g:313:TRP:CH2	2.57	0.87
33:g:333:LEU:HD22	33:g:349:TYR:CD2	2.08	0.87
34:h:34:PHE:HZ	34:h:135:GLU:H	1.16	0.87
35:i:184:TYR:HE2	35:i:189:PRO:HG2	1.06	0.87
25:Y:338:LEU:HD12	25:Y:341:TYR:CD1	2.08	0.87
32:f:119:LEU:HD22	32:f:391:LYS:CB	2.04	0.87
37:k:21:SER:H	37:k:22:PRO:CD	1.86	0.87
1:A:419:LYS:HA	17:Q:58:LEU:HD22	1.57	0.87
25:Y:67:ARG:NH1	25:Y:455:SER:OG	2.07	0.87
25:Y:352:ILE:HB	25:Y:380:ARG:NE	1.87	0.87
26:Z:408:ILE:HG21	26:Z:475:ASP:CA	2.04	0.87
26:Z:757:ARG:NH2	26:Z:760:LEU:HD22	1.88	0.87
35:i:221:ILE:N	35:i:221:ILE:CD1	2.17	0.87
17:Q:16:TYR:HE2	17:Q:87:PHE:CA	1.86	0.87
25:Y:231:ILE:HG21	25:Y:457:ILE:HD11	1.54	0.87
25:Y:269:GLU:CG	25:Y:277:VAL:HG11	2.04	0.87
25:Y:440:LEU:HD11	25:Y:638:ARG:CA	2.00	0.87
32:f:127:ILE:HG21	32:f:361:TRP:HZ3	1.39	0.87
4:D:165:GLN:HE22	37:k:1:PRO:CA	1.86	0.87
25:Y:393:VAL:CG2	25:Y:437:PHE:CE1	2.56	0.87
25:Y:656:PHE:HD1	25:Y:659:MET:SD	1.98	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:ASP:HB2	39:m:117:DG:O5'	1.72	0.87
20:T:91:ASP:HB3	22:V:66:ILE:HG13	1.57	0.87
22:V:76:ILE:HD13	22:V:97:ARG:HB2	1.56	0.87
25:Y:200:ILE:CG2	25:Y:226:VAL:HG11	1.89	0.87
25:Y:499:LYS:HD2	25:Y:522:TYR:CG	2.08	0.87
26:Z:446:PHE:HB2	26:Z:452:LEU:HD21	1.54	0.87
26:Z:584:ASN:HD21	26:Z:586:THR:HG23	1.39	0.87
26:Z:621:LYS:HB3	26:Z:621:LYS:HZ2	1.17	0.87
20:T:90:TYR:CD1	22:V:112:LYS:HB3	2.10	0.86
25:Y:355:THR:N	25:Y:356:PRO:HD2	1.90	0.86
25:Y:532:ILE:CD1	25:Y:705:ASP:HB2	2.05	0.86
32:f:374:VAL:O	33:g:73:LEU:HD23	1.73	0.86
33:g:308:ASP:O	35:i:137:LYS:CE	2.22	0.86
39:m:108:DC:H2'	39:m:109:DA:C8	2.09	0.86
1:A:1436:ILE:CD1	2:B:1144:ALA:HB2	2.05	0.86
25:Y:639:LEU:HD11	25:Y:649:ARG:NH1	1.89	0.86
35:i:238:ASP:CG	35:i:243:TYR:HE1	1.68	0.86
25:Y:419:ILE:HD11	25:Y:435:MET:HE3	1.57	0.86
25:Y:440:LEU:HD12	25:Y:638:ARG:HG2	1.57	0.86
26:Z:474:MET:HE2	26:Z:480:ARG:C	2.00	0.86
26:Z:757:ARG:NH2	26:Z:760:LEU:HB3	1.85	0.86
33:g:318:LEU:HD11	33:g:349:TYR:CD2	2.09	0.86
36:j:145:LYS:HA	36:j:145:LYS:HE3	1.55	0.86
25:Y:200:ILE:HD12	25:Y:225:GLU:C	2.00	0.86
25:Y:272:SER:HB2	25:Y:281:LYS:HZ1	1.36	0.86
25:Y:353:SER:O	25:Y:356:PRO:CD	2.22	0.86
25:Y:357:LYS:CE	25:Y:376:PHE:HD1	1.75	0.86
25:Y:692:GLN:O	25:Y:693:LEU:HD22	1.75	0.86
26:Z:383:ILE:HG22	26:Z:512:GLY:HA3	1.57	0.86
1:A:344:ARG:HA	2:B:1129:ARG:HA	1.57	0.86
16:P:541:ILE:O	16:P:545:ILE:CB	2.23	0.86
17:Q:265:ILE:H	17:Q:265:ILE:HD12	1.40	0.86
25:Y:229:ASP:HB3	25:Y:453:PHE:CA	2.06	0.86
25:Y:418:LEU:HD13	25:Y:634:ILE:CG1	2.06	0.86
25:Y:495:MET:CG	25:Y:686:PHE:CG	2.58	0.86
26:Z:477:LEU:HG	26:Z:501:VAL:CG1	2.04	0.86
1:A:417:TYR:CZ	29:c:37:ARG:HD3	2.09	0.86
25:Y:50:VAL:HG11	25:Y:459:THR:HB	1.56	0.86
26:Z:421:ARG:HE	26:Z:430:LEU:HD11	1.40	0.86
26:Z:470:SER:CA	26:Z:478:THR:HG23	2.05	0.86
33:g:104:ILE:HD12	33:g:124:LEU:HD21	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:123:MET:HE3	34:h:130:LYS:HD2	0.89	0.86
17:Q:86:ASN:O	17:Q:89:ILE:HG13	1.74	0.86
26:Z:425:LEU:HG	26:Z:429:THR:HG23	1.57	0.86
32:f:140:HIS:HB3	33:g:57:LEU:HD22	1.57	0.86
33:g:294:MET:N	33:g:295:PRO:CD	2.39	0.86
34:h:17:VAL:HG11	34:h:66:LEU:HG	1.57	0.86
34:h:34:PHE:CE2	34:h:134:LEU:CD2	2.48	0.86
34:h:123:MET:CB	34:h:130:LYS:CD	2.52	0.86
35:i:136:GLN:HG2	35:i:180:TYR:HE2	1.08	0.86
4:D:165:GLN:HE22	37:k:1:PRO:CB	1.87	0.86
25:Y:248:LEU:HD11	25:Y:445:ALA:HB2	1.58	0.86
25:Y:352:ILE:CA	25:Y:380:ARG:NH1	2.38	0.86
7:G:19:GLY:O	7:G:22:MET:CG	2.24	0.86
20:T:90:TYR:CE1	22:V:112:LYS:HD3	2.11	0.86
25:Y:418:LEU:HD22	25:Y:633:ARG:HD2	1.58	0.86
21:U:25:GLN:HG3	37:k:24:TYR:CE2	2.11	0.86
26:Z:427:TRP:CH2	26:Z:450:SER:HB2	2.10	0.86
32:f:139:LEU:HD21	32:f:350:TRP:CZ2	2.11	0.86
35:i:140:LYS:NZ	35:i:140:LYS:O	2.08	0.86
1:A:36:ARG:HH21	1:A:57:ARG:HH12	1.20	0.85
32:f:139:LEU:CD1	32:f:350:TRP:CD2	2.46	0.85
33:g:318:LEU:CD2	33:g:349:TYR:OH	2.21	0.85
35:i:144:VAL:HG22	35:i:178:PHE:HE2	1.40	0.85
35:i:205:ILE:HG12	35:i:208:LYS:CB	2.03	0.85
21:U:126:LEU:HB2	21:U:154:ILE:HG21	1.56	0.85
35:i:238:ASP:CA	35:i:243:TYR:CD1	2.59	0.85
17:Q:61:PRO:HG2	17:Q:300:VAL:HG21	1.58	0.85
32:f:114:MET:HE2	32:f:387:ILE:HD13	1.59	0.85
34:h:32:ILE:CG2	34:h:89:VAL:HG23	2.07	0.85
35:i:143:LEU:HD12	35:i:145:ASN:H	1.41	0.85
1:A:11:LEU:HD11	2:B:1195:HIS:CD2	2.11	0.85
18:R:46:ILE:HA	18:R:47:LYS:HZ1	1.42	0.85
26:Z:376:ASN:HB2	26:Z:380:ARG:CD	2.05	0.85
26:Z:487:LEU:CD2	26:Z:493:VAL:HG21	2.05	0.85
22:V:69:ILE:HD11	22:V:108:ASN:HD21	1.41	0.85
25:Y:232:VAL:HG21	25:Y:453:PHE:CE2	2.05	0.85
25:Y:631:GLU:HA	25:Y:636:LYS:HE3	0.85	0.85
26:Z:425:LEU:HG	26:Z:429:THR:CA	2.07	0.85
26:Z:717:TYR:CD2	26:Z:718:TYR:CE1	2.64	0.85
26:Z:328:LYS:HD3	26:Z:530:LEU:CD2	2.07	0.85
33:g:292:ILE:HB	33:g:295:PRO:HG3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:91:TYR:HB3	34:h:92:PRO:HD3	1.59	0.85
36:j:190:PHE:CZ	38:l:18:DA:C6	2.65	0.85
25:Y:393:VAL:CG2	25:Y:437:PHE:CZ	2.60	0.85
26:Z:417:VAL:HG13	26:Z:454:VAL:HG11	1.57	0.85
26:Z:474:MET:SD	26:Z:506:ALA:HB3	2.16	0.85
32:f:108:LYS:HD3	33:g:106:LEU:CD1	2.07	0.85
22:V:122:TRP:O	22:V:126:ILE:HD13	1.76	0.85
25:Y:493:LEU:HD21	25:Y:666:LEU:HG	1.57	0.85
25:Y:499:LYS:HB3	25:Y:522:TYR:CZ	2.12	0.85
32:f:135:LEU:CB	32:f:136:PRO:CD	2.48	0.85
20:T:71:LYS:O	20:T:74:ILE:HG22	1.76	0.85
26:Z:457:TYR:HB3	26:Z:498:PHE:CE1	2.12	0.85
35:i:238:ASP:OD2	35:i:243:TYR:CZ	2.30	0.85
20:T:93:ILE:HD13	22:V:122:TRP:CE3	2.11	0.84
25:Y:499:LYS:HD3	25:Y:522:TYR:N	1.85	0.84
34:h:43:LEU:CD2	34:h:54:LEU:HD11	2.05	0.84
35:i:236:LYS:CD	35:i:245:TRP:CH2	2.55	0.84
21:U:25:GLN:OE1	37:k:24:TYR:HD2	1.60	0.84
25:Y:124:ARG:HG2	25:Y:377:CYS:HA	1.56	0.84
25:Y:353:SER:CB	25:Y:381:LEU:CA	2.55	0.84
26:Z:476:PHE:CE1	26:Z:502:VAL:HG22	2.13	0.84
32:f:386:MET:HE3	33:g:73:LEU:HD11	0.86	0.84
36:j:114:LEU:CD2	39:m:143:DT:H2'	2.05	0.84
18:R:193:THR:HG22	18:R:196:GLU:HA	1.58	0.84
25:Y:254:THR:HG21	25:Y:286:TYR:CE1	2.01	0.84
33:g:63:ARG:HG3	33:g:215:VAL:HA	0.85	0.84
20:T:97:LEU:CD1	20:T:100:ILE:HD11	2.05	0.84
20:T:126:LYS:HG3	23:W:132:GLY:O	1.77	0.84
32:f:110:ASP:CG	33:g:92:LEU:HD23	2.02	0.84
33:g:306:LEU:HD11	33:g:313:TRP:CH2	2.13	0.84
38:l:41:DA:H2'	38:l:42:DT:C4'	2.07	0.84
25:Y:67:ARG:CB	25:Y:230:SER:CB	2.53	0.84
32:f:374:VAL:HG21	33:g:75:MET:SD	2.17	0.84
1:A:399:HIS:NE2	1:A:462:VAL:HG11	1.91	0.84
1:A:1445:ILE:HG12	7:G:68:ALA:N	1.90	0.84
25:Y:71:TYR:HA	25:Y:233:ILE:HB	1.60	0.84
35:i:167:ASP:OD1	35:i:167:ASP:N	2.08	0.84
2:B:451:LYS:CE	29:c:138:ASP:CG	2.50	0.84
25:Y:499:LYS:HD2	25:Y:522:TYR:N	1.90	0.84
25:Y:681:LEU:CD2	25:Y:696:TRP:CZ3	2.60	0.84
33:g:307:PHE:CE2	33:g:349:TYR:CZ	2.65	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:126:ILE:HG12	34:h:154:GLU:HG3	0.86	0.84
35:i:171:PHE:N	35:i:171:PHE:CD1	2.40	0.84
21:U:73:ASN:HB2	21:U:75:GLN:HG2	1.60	0.84
21:U:175:ILE:O	21:U:179:GLU:HG3	1.77	0.84
38:l:40:DG:H2'	38:l:41:DA:C8	2.13	0.84
25:Y:346:MET:CA	25:Y:384:LEU:HD21	2.08	0.84
25:Y:539:VAL:CG1	25:Y:623:ILE:HG12	2.07	0.84
33:g:307:PHE:HZ	33:g:349:TYR:CE1	1.86	0.84
17:Q:27:SER:HB3	17:Q:224:MET:HE2	1.60	0.83
22:V:76:ILE:HD13	22:V:97:ARG:CB	2.07	0.83
26:Z:634:GLN:OE1	26:Z:634:GLN:HA	1.75	0.83
34:h:45:GLN:HB2	35:i:202:PHE:HD1	1.42	0.83
36:j:116:PHE:CZ	38:l:23:DA:N1	2.46	0.83
1:A:419:LYS:HZ2	29:c:48:CYS:CB	1.90	0.83
2:B:416:LEU:HD23	2:B:457:LEU:HD23	1.61	0.83
6:F:92:ARG:HH22	7:G:63:PRO:HB2	1.02	0.83
21:U:150:ASN:O	21:U:154:ILE:HG12	1.76	0.83
34:h:31:ALA:HB3	34:h:43:LEU:HD11	1.58	0.83
34:h:44:LYS:CG	34:h:51:LYS:HA	2.03	0.83
20:T:50:GLU:HG2	22:V:98:LEU:CD1	2.02	0.83
25:Y:267:LEU:O	25:Y:268:ASP:HB2	1.76	0.83
26:Z:428:CYS:HB2	26:Z:434:ASN:CB	2.08	0.83
26:Z:473:VAL:H	26:Z:478:THR:HG22	1.42	0.83
26:Z:602:GLY:O	26:Z:694:LYS:NZ	2.10	0.83
32:f:103:LEU:CD2	33:g:98:ASN:CG	2.48	0.83
33:g:333:LEU:C	33:g:337:ALA:HB3	2.02	0.83
9:I:17:ARG:CD	40:n:20:GLU:CA	2.56	0.83
25:Y:253:THR:HG22	25:Y:434:ILE:CD1	2.09	0.83
25:Y:418:LEU:HD22	25:Y:633:ARG:CD	2.07	0.83
26:Z:466:ARG:NH2	26:Z:477:LEU:HD13	1.92	0.83
33:g:310:TYR:HH	35:i:150:TYR:HB3	1.22	0.83
1:A:195:ASP:HB2	39:m:117:DG:OP1	1.76	0.83
1:A:1447:GLU:CD	7:G:26:LEU:HD13	2.03	0.83
22:V:89:THR:HG23	22:V:90:LEU:CD1	2.08	0.83
25:Y:353:SER:N	25:Y:380:ARG:HH11	1.75	0.83
34:h:123:MET:CG	34:h:130:LYS:CD	2.55	0.83
25:Y:68:LYS:CE	25:Y:228:LYS:HE3	2.08	0.83
2:B:350:GLN:HG3	32:f:407:ASP:CB	2.08	0.83
6:F:132:LEU:HD21	7:G:66:GLY:O	1.79	0.83
26:Z:376:ASN:N	26:Z:380:ARG:HB2	1.92	0.83
26:Z:487:LEU:HD22	26:Z:490:VAL:HG23	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:110:ASP:CG	33:g:92:LEU:CD2	2.51	0.83
33:g:63:ARG:HB3	33:g:215:VAL:O	1.77	0.83
25:Y:257:LEU:HD23	25:Y:383:LEU:HD12	1.58	0.83
32:f:120:LYS:HZ3	33:g:72:ARG:HD2	0.78	0.83
33:g:313:TRP:HB2	33:g:349:TYR:HE1	1.01	0.83
25:Y:58:ALA:C	25:Y:62:HIS:HD2	1.86	0.83
25:Y:288:LYS:HZ1	25:Y:336:LYS:N	1.72	0.83
25:Y:352:ILE:N	25:Y:380:ARG:HH12	1.77	0.83
1:A:53:LEU:HD23	1:A:54:ASN:H	1.44	0.83
1:A:902:LEU:HG	1:A:926:GLN:HG3	1.59	0.83
2:B:451:LYS:HE3	29:c:138:ASP:CG	2.04	0.83
20:T:42:LEU:HD12	20:T:80:LEU:HD12	1.61	0.83
25:Y:50:VAL:CG1	25:Y:459:THR:HB	2.09	0.83
25:Y:493:LEU:HD23	25:Y:696:TRP:HE1	0.69	0.83
2:B:1184:GLY:O	4:D:17:LYS:NZ	2.12	0.82
25:Y:58:ALA:C	25:Y:62:HIS:CD2	2.57	0.82
25:Y:346:MET:CB	25:Y:384:LEU:HD21	2.09	0.82
25:Y:353:SER:CA	25:Y:356:PRO:HG3	2.06	0.82
26:Z:372:LYS:O	26:Z:380:ARG:HB3	1.78	0.82
26:Z:407:VAL:CG1	26:Z:451:GLY:HA2	2.08	0.82
32:f:404:LEU:HB3	32:f:412:ARG:HH22	1.41	0.82
13:M:45:VAL:O	13:M:49:GLN:N	2.11	0.82
20:T:38:SER:CB	22:V:113:ASP:OD2	2.28	0.82
25:Y:200:ILE:HB	25:Y:226:VAL:HG21	0.95	0.82
25:Y:571:VAL:CG1	25:Y:572:GLU:N	2.42	0.82
26:Z:474:MET:HE3	26:Z:482:TRP:C	2.04	0.82
34:h:152:CYS:SG	34:h:154:GLU:HB2	2.19	0.82
1:A:836:TYR:HH	1:A:1403:GLU:CD	1.85	0.82
2:B:451:LYS:NZ	29:c:138:ASP:CG	2.37	0.82
25:Y:244:CYS:HB2	25:Y:442:ALA:CB	2.09	0.82
25:Y:349:LEU:CA	25:Y:380:ARG:CZ	2.33	0.82
26:Z:696:ARG:HH11	26:Z:704:PHE:HE1	0.83	0.82
34:h:56:PRO:CG	35:i:237:LYS:HZ3	1.72	0.82
34:h:151:LEU:HD22	34:h:152:CYS:HB3	1.61	0.82
2:B:560:GLU:C	33:g:225:MET:HE1	2.03	0.82
16:P:362:GLU:O	16:P:423:LYS:HA	1.80	0.82
25:Y:467:ASP:C	25:Y:470:PRO:HD2	2.05	0.82
25:Y:499:LYS:CD	25:Y:521:ASN:C	2.52	0.82
33:g:310:TYR:OH	35:i:150:TYR:O	1.96	0.82
3:C:148:ARG:H	3:C:151:GLN:HG3	1.44	0.82
20:T:51:ASP:OD1	20:T:55:LYS:HD3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:T:122:HIS:CB	23:W:131:ASP:O	2.12	0.82
25:Y:72:CYS:SG	25:Y:234:PHE:CD1	2.72	0.82
25:Y:353:SER:O	25:Y:356:PRO:HD2	1.79	0.82
25:Y:631:GLU:HA	25:Y:636:LYS:NZ	1.93	0.82
26:Z:474:MET:HA	26:Z:478:THR:O	1.79	0.82
26:Z:478:THR:HG22	26:Z:479:GLY:H	1.43	0.82
26:Z:505:ILE:HG22	26:Z:507:ALA:N	1.94	0.82
36:j:190:PHE:HE1	38:l:18:DA:C5	1.44	0.82
25:Y:68:LYS:HD2	25:Y:228:LYS:HG3	0.83	0.82
33:g:306:LEU:CD1	33:g:313:TRP:CZ2	2.62	0.82
35:i:142:VAL:CG2	35:i:147:LEU:HG	2.09	0.82
16:P:240:SER:CA	37:k:6:THR:CB	2.46	0.82
17:Q:75:LEU:CA	17:Q:98:ILE:CG2	2.52	0.82
22:V:119:PRO:HA	22:V:122:TRP:HD1	0.99	0.82
25:Y:419:ILE:HD12	25:Y:435:MET:HG2	1.60	0.82
26:Z:373:MET:HG3	26:Z:381:SER:HA	1.61	0.82
34:h:17:VAL:CG1	34:h:66:LEU:CG	2.46	0.82
35:i:131:ALA:CA	35:i:151:LEU:HD13	2.06	0.82
35:i:160:ILE:C	35:i:160:ILE:HD12	2.05	0.82
4:D:165:GLN:NE2	37:k:1:PRO:CB	2.43	0.82
17:Q:97:LYS:HZ2	17:Q:243:ASN:C	1.88	0.82
25:Y:440:LEU:CD2	25:Y:641:PHE:CG	2.63	0.82
25:Y:481:LYS:HD3	25:Y:483:TYR:CD2	2.15	0.82
34:h:43:LEU:HD23	34:h:54:LEU:CD1	2.05	0.82
6:F:96:THR:CB	7:G:64:THR:O	2.27	0.82
29:c:66:PHE:O	29:c:78:ARG:NH2	2.12	0.82
33:g:310:TYR:CZ	35:i:150:TYR:HB3	2.13	0.82
39:m:122:DG:H2''	39:m:123:DA:C5'	2.09	0.82
2:B:350:GLN:CG	32:f:407:ASP:OD2	2.28	0.82
17:Q:97:LYS:NZ	17:Q:243:ASN:C	2.38	0.82
25:Y:393:VAL:CG1	25:Y:437:PHE:CD2	2.63	0.82
26:Z:300:ASP:OD2	26:Z:480:ARG:HD3	1.80	0.82
25:Y:225:GLU:O	25:Y:226:VAL:HG12	1.80	0.81
25:Y:248:LEU:HD11	25:Y:445:ALA:CB	2.10	0.81
25:Y:293:LEU:CD1	25:Y:433:PRO:HB2	2.09	0.81
32:f:127:ILE:HG22	32:f:361:TRP:CH2	1.98	0.81
32:f:135:LEU:HB2	32:f:136:PRO:HD2	1.61	0.81
1:A:68:GLN:O	1:A:68:GLN:NE2	2.11	0.81
2:B:433:GLN:CD	32:f:326:ARG:HD3	2.03	0.81
2:B:1221:SER:OG	4:D:14:ARG:CZ	2.28	0.81
25:Y:259:ARG:HB3	25:Y:379:GLU:OE2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:353:SER:HB3	25:Y:381:LEU:N	1.94	0.81
33:g:63:ARG:HB2	33:g:214:ILE:C	2.04	0.81
33:g:89:GLY:O	33:g:90:GLN:HB2	1.77	0.81
2:B:849:GLY:HA2	2:B:852:ARG:HD2	1.63	0.81
21:U:155:LEU:HD13	23:W:16:THR:HG23	1.63	0.81
25:Y:515:ASP:HB2	25:Y:518:ILE:HD12	1.61	0.81
26:Z:407:VAL:HG13	26:Z:452:LEU:N	1.93	0.81
26:Z:408:ILE:HG21	26:Z:475:ASP:HA	1.59	0.81
26:Z:466:ARG:HB2	26:Z:477:LEU:CD2	2.10	0.81
32:f:133:PHE:O	32:f:353:GLU:OE2	1.98	0.81
26:Z:335:TYR:HD1	26:Z:336:PRO:HD3	1.44	0.81
34:h:43:LEU:HB3	34:h:54:LEU:CD2	2.09	0.81
1:A:344:ARG:NH2	2:B:1120:GLU:CG	2.39	0.81
17:Q:108:ILE:HG21	17:Q:159:GLU:HB3	1.62	0.81
18:R:72:ILE:CG2	18:R:202:TYR:HE1	1.81	0.81
20:T:98:GLN:O	20:T:102:LYS:HD2	1.80	0.81
25:Y:86:LEU:HD22	25:Y:103:PHE:CE1	2.15	0.81
26:Z:384:ILE:HD13	26:Z:511:LEU:CD1	2.10	0.81
26:Z:502:VAL:HA	26:Z:505:ILE:CD1	2.10	0.81
34:h:12:LEU:O	34:h:16:VAL:HG23	1.80	0.81
35:i:164:LYS:CD	35:i:165:LYS:CG	2.56	0.81
21:U:25:GLN:HB2	37:k:24:TYR:HB3	1.59	0.81
25:Y:418:LEU:C	25:Y:633:ARG:NH1	2.38	0.81
33:g:63:ARG:CB	33:g:215:VAL:C	2.53	0.81
25:Y:208:TYR:CE1	25:Y:213:LEU:HB2	2.15	0.81
26:Z:331:GLN:HE22	26:Z:378:ARG:HD2	1.45	0.81
26:Z:446:PHE:C	26:Z:452:LEU:HD22	2.06	0.81
34:h:27:LEU:HD21	34:h:127:CYS:O	1.80	0.81
38:l:58:DG:C2	38:l:59:DT:N3	2.49	0.81
16:P:388:PHE:O	16:P:484:ASP:CB	2.29	0.81
25:Y:135:ARG:HH21	25:Y:143:ARG:NE	1.73	0.81
35:i:231:LEU:CD2	35:i:232:VAL:HG12	2.09	0.81
22:V:117:LYS:CE	22:V:121:GLU:HB3	2.09	0.81
25:Y:272:SER:OG	25:Y:281:LYS:NZ	2.10	0.81
25:Y:353:SER:CA	25:Y:356:PRO:CG	2.58	0.81
26:Z:460:VAL:CB	38:l:65:DA:C4'	2.51	0.81
35:i:234:ARG:HD3	35:i:247:ASN:OD1	1.81	0.81
1:A:55:ASP:HA	1:A:58:LEU:HB2	1.63	0.81
16:P:241:MET:CB	37:k:10:TYR:CE1	2.64	0.81
25:Y:67:ARG:CB	25:Y:230:SER:HB3	2.06	0.81
25:Y:135:ARG:NH2	25:Y:143:ARG:CZ	2.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:639:LEU:HG	25:Y:653:PHE:CZ	2.15	0.81
25:Y:639:LEU:HD11	25:Y:649:ARG:HH11	1.43	0.81
26:Z:410:LEU:HD21	26:Z:457:TYR:CD2	2.15	0.81
33:g:308:ASP:C	35:i:133:GLU:CD	2.48	0.81
33:g:310:TYR:OH	35:i:150:TYR:HA	1.80	0.81
35:i:172:ASP:OD2	35:i:179:LYS:HG3	1.80	0.81
3:C:148:ARG:HD3	3:C:149:LYS:HG2	1.61	0.80
18:R:130:LEU:HB2	18:R:137:VAL:HG13	1.64	0.80
25:Y:357:LYS:HG3	25:Y:376:PHE:O	1.82	0.80
25:Y:659:MET:SD	25:Y:692:GLN:HG2	2.21	0.80
32:f:365:TYR:CE1	32:f:391:LYS:HD2	2.17	0.80
35:i:203:LYS:HD3	35:i:247:ASN:ND2	1.94	0.80
39:m:107:DA:H2''	39:m:108:DC:C6	2.16	0.80
1:A:1445:ILE:HG21	7:G:18:PHE:HE2	1.46	0.80
25:Y:58:ALA:HA	25:Y:231:ILE:HD13	1.63	0.80
25:Y:274:VAL:HG12	25:Y:275:ARG:H	1.46	0.80
25:Y:337:ARG:CZ	25:Y:345:ARG:HD3	2.11	0.80
25:Y:497:ILE:HG22	25:Y:497:ILE:O	1.81	0.80
26:Z:584:ASN:ND2	26:Z:586:THR:HG23	1.96	0.80
34:h:34:PHE:CE2	34:h:134:LEU:HD21	2.12	0.80
1:A:22:PHE:HB2	2:B:1211:ASN:CG	2.06	0.80
1:A:1447:GLU:CD	7:G:26:LEU:CD1	2.54	0.80
16:P:479:LEU:O	16:P:482:ASP:N	2.15	0.80
22:V:146:LYS:CB	23:W:129:PHE:CZ	2.64	0.80
25:Y:257:LEU:HD22	25:Y:383:LEU:HD11	1.62	0.80
32:f:108:LYS:CG	33:g:95:ILE:HG13	2.10	0.80
33:g:295:PRO:O	33:g:299:ILE:CG1	2.29	0.80
16:P:380:ASP:O	16:P:383:HIS:O	2.00	0.80
21:U:139:ILE:CD1	21:U:147:LYS:HE3	2.10	0.80
25:Y:229:ASP:HA	25:Y:453:PHE:HB3	1.62	0.80
25:Y:570:LEU:HD12	25:Y:600:SER:CB	2.11	0.80
20:T:91:ASP:CB	22:V:66:ILE:HG13	2.12	0.80
25:Y:526:LEU:HD13	25:Y:623:ILE:HD11	1.64	0.80
26:Z:458:SER:CA	26:Z:465:ASN:HB2	2.12	0.80
26:Z:578:MET:O	26:Z:582:ILE:HG13	1.81	0.80
34:h:123:MET:CA	34:h:130:LYS:HD3	2.11	0.80
35:i:142:VAL:C	35:i:177:THR:OG1	2.23	0.80
1:A:1445:ILE:HG12	7:G:18:PHE:CZ	1.90	0.80
19:S:103:GLN:O	19:S:106:GLU:N	2.14	0.80
25:Y:350:HIS:ND1	25:Y:381:LEU:HD12	1.97	0.80
25:Y:420:ILE:CG1	25:Y:633:ARG:CZ	2.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:627:ILE:HB	26:Z:654:LEU:HD23	1.62	0.80
35:i:238:ASP:OD2	35:i:243:TYR:OH	1.98	0.80
39:m:107:DA:H2"	39:m:108:DC:C5	2.17	0.80
25:Y:193:TYR:HE2	25:Y:197:ARG:HH11	1.29	0.80
25:Y:293:LEU:HD13	25:Y:433:PRO:HB3	1.63	0.80
26:Z:458:SER:CB	26:Z:467:SER:HB3	2.11	0.80
1:A:1445:ILE:O	7:G:68:ALA:HB2	1.82	0.80
13:M:139:VAL:CB	13:M:152:ASP:CB	2.60	0.80
16:P:341:TYR:CB	16:P:354:ILE:N	2.43	0.80
17:Q:76:ILE:HG23	17:Q:93:PHE:CZ	2.17	0.80
22:V:118:SER:HB2	22:V:119:PRO:HD2	1.63	0.80
25:Y:229:ASP:C	25:Y:453:PHE:HB3	2.07	0.80
25:Y:288:LYS:HD2	25:Y:334:PHE:C	2.05	0.80
33:g:56:SER:O	33:g:57:LEU:HB2	1.81	0.80
33:g:82:ARG:HE	33:g:108:LEU:CD1	1.91	0.80
36:j:190:PHE:CZ	38:l:18:DA:C5	2.66	0.80
1:A:1443:VAL:H	7:G:63:PRO:CD	1.94	0.80
22:V:112:LYS:HD2	22:V:119:PRO:CB	2.12	0.80
25:Y:526:LEU:CD2	25:Y:554:TRP:CZ3	2.62	0.80
26:Z:353:ASP:OD2	26:Z:405:LYS:HA	1.80	0.80
26:Z:439:THR:HG23	26:Z:465:ASN:ND2	1.97	0.80
26:Z:561:MET:C	27:a:450:ARG:CZ	2.55	0.80
34:h:127:CYS:SG	34:h:151:LEU:HD21	2.22	0.80
34:h:154:GLU:OE2	34:h:155:PRO:CD	2.28	0.80
35:i:166:LEU:CD1	35:i:166:LEU:C	2.55	0.80
2:B:29:ASP:HB3	2:B:658:ILE:HG12	1.64	0.80
6:F:96:THR:HA	7:G:64:THR:O	1.82	0.80
17:Q:97:LYS:HD3	17:Q:243:ASN:C	2.07	0.80
17:Q:195:GLY:HA3	18:R:76:SER:HA	1.61	0.80
25:Y:229:ASP:C	25:Y:453:PHE:HB2	2.05	0.80
25:Y:639:LEU:CA	25:Y:653:PHE:CD2	2.65	0.80
32:f:145:ARG:O	32:f:341:LYS:HD2	1.82	0.80
2:B:451:LYS:NZ	29:c:138:ASP:OD1	2.15	0.79
20:T:90:TYR:CG	22:V:112:LYS:HB3	2.17	0.79
25:Y:357:LYS:HE2	25:Y:376:PHE:CD1	2.17	0.79
25:Y:586:TYR:HD2	25:Y:598:LEU:HG	1.45	0.79
1:A:227:VAL:CG1	4:D:16:LYS:HG2	2.11	0.79
18:R:4:SER:CB	18:R:200:LEU:HD23	2.11	0.79
25:Y:124:ARG:HB3	25:Y:377:CYS:SG	2.20	0.79
25:Y:253:THR:CG2	25:Y:434:ILE:CG2	2.59	0.79
26:Z:398:THR:O	26:Z:402:THR:HG23	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:400:ALA:HB1	26:Z:449:GLU:O	1.83	0.79
26:Z:584:ASN:ND2	26:Z:586:THR:CG2	2.45	0.79
33:g:293:ARG:C	33:g:295:PRO:HD2	2.07	0.79
36:j:114:LEU:HD22	39:m:143:DT:C2'	2.11	0.79
1:A:1443:VAL:CG1	7:G:61:ILE:CG2	2.25	0.79
16:P:311:LYS:CB	16:P:423:LYS:O	2.30	0.79
17:Q:98:ILE:CG2	17:Q:99:PRO:CD	2.60	0.79
20:T:39:LYS:N	22:V:113:ASP:OD2	2.15	0.79
25:Y:162:LEU:HD21	25:Y:191:CYS:HB3	1.64	0.79
25:Y:244:CYS:CB	25:Y:442:ALA:CB	2.57	0.79
25:Y:353:SER:CB	25:Y:381:LEU:N	2.45	0.79
25:Y:565:LYS:HD3	25:Y:597:ILE:HD12	1.62	0.79
25:Y:586:TYR:HD1	25:Y:616:TYR:CE2	1.99	0.79
26:Z:362:ILE:HG22	26:Z:363:ARG:O	1.81	0.79
26:Z:458:SER:HA	26:Z:465:ASN:CB	2.12	0.79
26:Z:459:MET:O	26:Z:464:ARG:HG3	1.81	0.79
26:Z:502:VAL:HA	26:Z:505:ILE:HD11	1.64	0.79
32:f:118:LEU:HD11	32:f:387:ILE:HD12	1.64	0.79
32:f:376:LEU:CG	33:g:73:LEU:HD22	2.10	0.79
34:h:44:LYS:HD2	34:h:54:LEU:HB2	1.61	0.79
34:h:151:LEU:HD22	34:h:152:CYS:H	1.44	0.79
1:A:89:PRO:HB2	1:A:204:THR:CG2	2.13	0.79
17:Q:97:LYS:CB	17:Q:243:ASN:HD22	1.96	0.79
20:T:93:ILE:HD13	22:V:122:TRP:CB	2.11	0.79
25:Y:111:ARG:NE	25:Y:129:VAL:HG21	1.97	0.79
26:Z:425:LEU:CG	26:Z:429:THR:HA	2.12	0.79
32:f:120:LYS:HZ1	33:g:72:ARG:CG	1.94	0.79
1:A:1447:GLU:OE1	7:G:56:ILE:HD11	1.82	0.79
2:B:1215:ARG:HD2	4:D:15:LEU:HD12	1.59	0.79
17:Q:78:GLU:OE1	17:Q:80:MET:HB3	1.82	0.79
25:Y:212:TYR:OH	25:Y:222:VAL:HG22	1.81	0.79
25:Y:479:LEU:O	25:Y:479:LEU:CD2	2.30	0.79
35:i:158:LYS:NZ	35:i:162:LEU:CG	2.43	0.79
17:Q:97:LYS:HE3	17:Q:236:TRP:HB3	1.65	0.79
20:T:81:PHE:O	20:T:84:VAL:HG12	1.82	0.79
21:U:160:HIS:O	21:U:164:GLU:HG3	1.83	0.79
25:Y:59:TYR:CB	25:Y:62:HIS:NE2	2.46	0.79
25:Y:419:ILE:H	25:Y:633:ARG:NH1	1.76	0.79
6:F:92:ARG:CZ	7:G:63:PRO:HB3	2.12	0.79
20:T:118:LEU:HD21	23:W:129:PHE:HB2	1.64	0.79
22:V:146:LYS:HB3	23:W:129:PHE:CE1	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:352:ILE:CG1	25:Y:380:ARG:CZ	2.60	0.79
25:Y:499:LYS:CE	25:Y:522:TYR:CA	2.34	0.79
26:Z:378:ARG:HH21	26:Z:508:HIS:HA	1.45	0.79
26:Z:502:VAL:CG1	26:Z:530:LEU:HB3	2.12	0.79
34:h:144:ARG:HB3	34:h:146:GLU:CD	2.07	0.79
4:D:158:GLU:HG2	37:k:2:SER:O	1.81	0.79
13:M:166:ILE:HA	14:N:95:VAL:HA	1.62	0.79
22:V:140:LEU:O	22:V:143:LEU:HG	1.83	0.79
25:Y:135:ARG:HH21	25:Y:143:ARG:HH21	1.30	0.79
25:Y:353:SER:CB	25:Y:381:LEU:CB	2.53	0.79
26:Z:425:LEU:HG	26:Z:429:THR:CB	2.12	0.79
30:d:236:GLU:HG3	30:d:237:ASP:H	1.46	0.79
32:f:139:LEU:HD22	32:f:350:TRP:HH2	1.34	0.79
34:h:141:ASN:C	34:h:142:PHE:HD1	1.88	0.79
35:i:166:LEU:HD12	35:i:168:ARG:H	1.46	0.79
22:V:81:ASN:HB2	22:V:90:LEU:HD23	1.64	0.79
23:W:94:ILE:HG13	23:W:95:ASP:N	1.96	0.79
25:Y:37:ASN:HB3	25:Y:456:VAL:HB	0.79	0.79
25:Y:215:ASP:HB3	25:Y:218:ILE:CG2	2.14	0.79
25:Y:253:THR:HG22	25:Y:434:ILE:HG23	1.63	0.79
25:Y:681:LEU:HD22	25:Y:696:TRP:HZ3	1.44	0.79
1:A:195:ASP:CB	39:m:117:DG:O5'	2.24	0.78
13:M:139:VAL:HA	13:M:152:ASP:CB	2.14	0.78
16:P:471:ASN:O	16:P:472:GLU:O	2.00	0.78
17:Q:98:ILE:HG22	17:Q:99:PRO:CD	2.12	0.78
20:T:97:LEU:HD12	20:T:100:ILE:CD1	2.09	0.78
25:Y:39:ILE:HG12	25:Y:458:ILE:HB	1.63	0.78
26:Z:410:LEU:HA	26:Z:466:ARG:HH12	1.46	0.78
32:f:122:GLN:HG2	33:g:132:GLU:HG2	1.65	0.78
35:i:190:SER:C	35:i:226:GLU:OE2	2.27	0.78
35:i:196:LEU:C	35:i:196:LEU:HD12	2.07	0.78
1:A:420:ARG:HH12	17:Q:174:ALA:HB2	1.47	0.78
1:A:1445:ILE:O	1:A:1445:ILE:HD12	1.82	0.78
16:P:543:ARG:O	16:P:545:ILE:N	2.15	0.78
25:Y:253:THR:HG22	25:Y:434:ILE:CG1	2.12	0.78
25:Y:639:LEU:CD2	25:Y:649:ARG:HB2	2.13	0.78
26:Z:380:ARG:HA	26:Z:535:LEU:HD22	1.65	0.78
26:Z:473:VAL:H	26:Z:478:THR:CG2	1.96	0.78
32:f:102:PRO:HD2	33:g:99:LYS:O	1.79	0.78
32:f:116:THR:HG22	33:g:138:GLN:HG2	1.66	0.78
33:g:107:LEU:CD1	33:g:119:GLU:HG3	2.12	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:V:69:ILE:HG12	22:V:104:LEU:HB3	1.66	0.78
26:Z:756:ARG:HH11	26:Z:756:ARG:HG2	0.75	0.78
35:i:144:VAL:HG22	35:i:178:PHE:CE2	2.19	0.78
17:Q:106:ARG:HH21	17:Q:214:GLN:CG	1.95	0.78
26:Z:327:LYS:HA	26:Z:327:LYS:HE3	1.65	0.78
32:f:103:LEU:CD2	33:g:98:ASN:HB2	2.11	0.78
35:i:238:ASP:OD2	35:i:243:TYR:HE1	1.56	0.78
1:A:1443:VAL:HA	6:F:133:VAL:O	1.84	0.78
9:I:17:ARG:HD3	40:n:20:GLU:CA	2.13	0.78
20:T:93:ILE:HD11	22:V:126:ILE:CD1	2.13	0.78
25:Y:37:ASN:O	25:Y:477:THR:OG1	2.02	0.78
25:Y:131:GLU:CD	25:Y:134:ARG:HH12	1.91	0.78
25:Y:135:ARG:HH21	25:Y:143:ARG:NH2	1.81	0.78
25:Y:348:VAL:O	25:Y:380:ARG:NH2	2.13	0.78
32:f:108:LYS:NZ	33:g:106:LEU:HD22	1.99	0.78
36:j:100:ALA:HB3	39:m:142:DA:C2	2.18	0.78
20:T:55:LYS:HA	20:T:60:VAL:HG12	1.63	0.78
22:V:146:LYS:CB	23:W:129:PHE:CE1	2.67	0.78
25:Y:257:LEU:HD21	25:Y:383:LEU:HD11	1.64	0.78
26:Z:494:PRO:HB2	26:Z:519:ARG:NH1	1.98	0.78
34:h:142:PHE:N	34:h:142:PHE:CD1	1.76	0.78
38:l:59:DT:H1'	38:l:60:DT:O4'	1.84	0.78
1:A:1442:ASP:CA	7:G:63:PRO:HG3	2.09	0.78
6:F:133:VAL:O	7:G:61:ILE:HD12	1.70	0.78
25:Y:550:ILE:HG21	25:Y:554:TRP:CZ2	2.13	0.78
30:d:16:SER:O	30:d:20:GLU:HG2	1.81	0.78
33:g:333:LEU:O	33:g:337:ALA:CB	2.32	0.78
34:h:34:PHE:HZ	34:h:134:LEU:HG	1.48	0.78
1:A:418:SER:HA	29:c:48:CYS:C	2.07	0.78
1:A:1447:GLU:OE2	7:G:70:PHE:CZ	2.37	0.78
3:C:147:LEU:HB3	3:C:151:GLN:HB2	1.66	0.78
25:Y:230:SER:N	25:Y:453:PHE:CB	2.47	0.78
25:Y:418:LEU:HD13	25:Y:634:ILE:HG12	1.61	0.78
35:i:221:ILE:HD13	35:i:221:ILE:H	0.66	0.78
7:G:17:PHE:O	7:G:22:MET:HG2	1.83	0.78
17:Q:76:ILE:HG23	17:Q:93:PHE:HZ	1.48	0.78
18:R:4:SER:OG	18:R:200:LEU:HB2	1.84	0.78
20:T:66:ASN:HB3	20:T:69:ILE:HD12	1.66	0.78
22:V:76:ILE:HD12	22:V:97:ARG:HD2	1.66	0.78
25:Y:18:TYR:HB2	25:Y:19:PRO:CD	2.14	0.78
34:h:126:ILE:CB	34:h:154:GLU:HG2	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:W:83:VAL:HG23	23:W:84:ASP:H	1.48	0.78
20:T:55:LYS:HA	20:T:60:VAL:CG1	2.14	0.77
22:V:129:ARG:O	22:V:133:LEU:HG	1.83	0.77
22:V:132:GLU:HB3	22:V:136:LYS:HZ3	1.49	0.77
26:Z:326:VAL:HG11	26:Z:503:SER:OG	1.83	0.77
26:Z:460:VAL:HG21	38:l:65:DA:C3'	2.13	0.77
35:i:140:LYS:HB2	35:i:141:PRO:HD2	1.65	0.77
35:i:166:LEU:CD1	35:i:168:ARG:H	1.96	0.77
36:j:114:LEU:HD13	39:m:143:DT:N3	1.98	0.77
39:m:105:DC:H2''	39:m:106:DA:H5'	1.64	0.77
3:C:47:ASP:HA	12:L:69:ALA:HB3	1.66	0.77
6:F:92:ARG:NH2	7:G:63:PRO:CA	2.46	0.77
20:T:93:ILE:HD12	22:V:122:TRP:CZ3	2.12	0.77
22:V:146:LYS:HG2	23:W:129:PHE:CZ	2.16	0.77
25:Y:135:ARG:HB3	25:Y:143:ARG:HG3	1.66	0.77
25:Y:440:LEU:HD21	25:Y:641:PHE:HB2	0.80	0.77
32:f:139:LEU:HD11	32:f:350:TRP:CE2	2.18	0.77
35:i:141:PRO:C	35:i:142:VAL:HG12	2.09	0.77
17:Q:106:ARG:CZ	17:Q:211:PHE:CZ	2.67	0.77
25:Y:518:ILE:HG22	25:Y:522:TYR:HE2	0.61	0.77
25:Y:603:ARG:NH1	25:Y:629:TYR:CE2	2.53	0.77
26:Z:376:ASN:CB	26:Z:380:ARG:H	1.97	0.77
32:f:386:MET:CE	33:g:75:MET:SD	2.72	0.77
34:h:147:PHE:HB2	34:h:156:LEU:HD21	1.66	0.77
26:Z:566:TYR:CB	27:a:450:ARG:HH21	1.86	0.77
20:T:55:LYS:HB3	20:T:62:ARG:CG	2.14	0.77
22:V:137:ARG:HD3	22:V:138:ASP:N	1.98	0.77
25:Y:288:LYS:HG2	25:Y:335:LEU:HB3	1.59	0.77
26:Z:408:ILE:HG12	26:Z:475:ASP:CB	2.13	0.77
35:i:164:LYS:HE2	35:i:165:LYS:HG3	1.58	0.77
35:i:231:LEU:CA	35:i:232:VAL:HG12	2.14	0.77
36:j:114:LEU:HD13	39:m:143:DT:O2	1.84	0.77
25:Y:231:ILE:CG2	25:Y:457:ILE:CD1	2.62	0.77
25:Y:566:HIS:O	25:Y:567:LYS:HG3	1.84	0.77
26:Z:485:ILE:CD1	26:Z:510:LYS:HG2	2.14	0.77
33:g:292:ILE:HD12	33:g:328:HIS:CD2	2.20	0.77
34:h:34:PHE:CZ	34:h:134:LEU:HD12	2.18	0.77
35:i:231:LEU:HD23	35:i:232:VAL:HG12	1.66	0.77
36:j:98:ARG:NE	39:m:142:DA:H5''	1.99	0.77
17:Q:261:ARG:HD3	17:Q:267:ARG:HH21	1.48	0.77
25:Y:493:LEU:HD23	25:Y:696:TRP:CE2	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:692:GLN:C	25:Y:693:LEU:HD22	2.10	0.77
26:Z:310:ILE:HD13	26:Z:313:VAL:HG23	1.67	0.77
32:f:106:ILE:CD1	32:f:384:PHE:HE1	1.97	0.77
33:g:306:LEU:HD12	33:g:313:TRP:CH2	2.20	0.77
34:h:17:VAL:CG1	34:h:66:LEU:HD11	2.15	0.77
34:h:27:LEU:HD11	34:h:128:LEU:C	2.10	0.77
35:i:136:GLN:HG2	35:i:180:TYR:CD2	2.20	0.77
1:A:1444:MET:HG2	7:G:60:ARG:CG	2.13	0.77
26:Z:460:VAL:CG1	38:l:65:DA:C5'	2.25	0.77
33:g:92:LEU:HA	33:g:112:ASP:OD2	1.84	0.77
38:l:58:DG:C2	38:l:59:DT:C2	2.72	0.77
1:A:1447:GLU:OE1	7:G:26:LEU:HD13	1.85	0.77
2:B:449:ASN:ND2	29:c:135:MET:HG3	1.99	0.77
25:Y:59:TYR:CD2	25:Y:62:HIS:CE1	2.73	0.77
25:Y:346:MET:O	25:Y:384:LEU:HG	1.84	0.77
25:Y:420:ILE:HD12	25:Y:633:ARG:HH21	1.47	0.77
26:Z:406:SER:HB3	26:Z:482:TRP:CE3	2.20	0.77
26:Z:410:LEU:HD13	26:Z:477:LEU:CD1	2.15	0.77
26:Z:413:SER:O	26:Z:417:VAL:HG23	1.85	0.77
26:Z:476:PHE:HA	26:Z:485:ILE:HB	1.66	0.77
26:Z:717:TYR:CD2	26:Z:718:TYR:CD1	2.73	0.77
35:i:148:LEU:HD11	35:i:154:LYS:HB3	1.66	0.77
17:Q:86:ASN:OD1	17:Q:220:VAL:CG1	2.33	0.77
25:Y:499:LYS:HE2	25:Y:525:MET:HG3	1.66	0.77
26:Z:310:ILE:HD13	26:Z:313:VAL:CG2	2.15	0.77
35:i:130:TRP:CG	35:i:151:LEU:HD21	2.19	0.77
21:U:26:SER:HB2	37:k:25:SER:HB3	1.65	0.76
22:V:119:PRO:CA	22:V:122:TRP:HD1	1.53	0.76
25:Y:272:SER:CB	25:Y:281:LYS:HZ1	1.89	0.76
25:Y:418:LEU:HD22	25:Y:633:ARG:CG	2.15	0.76
34:h:156:LEU:H	34:h:156:LEU:CD2	1.96	0.76
35:i:166:LEU:HD12	35:i:168:ARG:N	2.00	0.76
1:A:32:VAL:HG23	1:A:57:ARG:O	1.86	0.76
1:A:1451:VAL:HG13	7:G:20:PRO:HG3	1.67	0.76
22:V:117:LYS:HE3	22:V:121:GLU:HB3	1.65	0.76
25:Y:327:ARG:CB	25:Y:330:HIS:CE1	2.65	0.76
25:Y:327:ARG:C	25:Y:417:LEU:HD23	2.09	0.76
26:Z:431:GLN:HB2	26:Z:432:PRO:HD3	1.67	0.76
26:Z:516:THR:HA	26:Z:681:ARG:NE	1.99	0.76
37:k:19:PRO:O	37:k:20:THR:OG1	2.04	0.76
1:A:1116:LEU:HD12	1:A:1329:THR:HB	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:193:THR:CG2	18:R:196:GLU:HA	2.15	0.76
25:Y:253:THR:HG22	25:Y:434:ILE:HG21	1.68	0.76
25:Y:284:ASP:O	25:Y:288:LYS:HG2	1.85	0.76
25:Y:352:ILE:H	25:Y:380:ARG:HH12	1.30	0.76
26:Z:474:MET:HA	26:Z:478:THR:C	2.10	0.76
34:h:126:ILE:CB	34:h:154:GLU:CG	2.62	0.76
35:i:127:LYS:HE3	35:i:127:LYS:N	2.00	0.76
1:A:1451:VAL:HG13	7:G:20:PRO:N	2.01	0.76
6:F:92:ARG:HH21	7:G:64:THR:H	1.31	0.76
6:F:93:ILE:HD11	6:F:134:ILE:HD11	1.66	0.76
26:Z:378:ARG:NH2	26:Z:508:HIS:HA	2.01	0.76
26:Z:407:VAL:CG2	26:Z:451:GLY:HA2	2.15	0.76
32:f:108:LYS:CD	33:g:95:ILE:CD1	2.59	0.76
35:i:125:SER:CA	35:i:127:LYS:HZ2	1.98	0.76
35:i:233:LEU:HD22	35:i:233:LEU:O	1.85	0.76
39:m:104:DA:C2'	39:m:105:DC:H5'	2.14	0.76
25:Y:28:ILE:CG2	25:Y:57:ILE:CD1	2.58	0.76
26:Z:363:ARG:HH21	26:Z:366:GLN:HE22	1.32	0.76
26:Z:425:LEU:CD1	26:Z:429:THR:HG23	2.15	0.76
36:j:116:PHE:HE1	38:l:23:DA:H2	1.24	0.76
17:Q:86:ASN:CG	17:Q:220:VAL:HG11	2.10	0.76
21:U:168:HIS:HE1	23:W:82:GLY:O	1.68	0.76
25:Y:569:ILE:CG2	25:Y:571:VAL:HG22	2.15	0.76
26:Z:656:LYS:O	26:Z:656:LYS:CD	2.33	0.76
26:Z:757:ARG:NH1	26:Z:760:LEU:CD2	2.41	0.76
33:g:313:TRP:CB	33:g:349:TYR:HE1	1.92	0.76
34:h:41:ASP:CG	35:i:202:PHE:CE2	2.64	0.76
34:h:126:ILE:CG1	34:h:154:GLU:CD	2.59	0.76
35:i:157:ASP:O	35:i:162:LEU:HD23	1.84	0.76
1:A:419:LYS:HG2	29:c:48:CYS:HA	1.68	0.76
17:Q:7:LEU:HB3	17:Q:288:LEU:HB3	1.67	0.76
17:Q:97:LYS:NZ	17:Q:244:SER:C	2.44	0.76
22:V:146:LYS:HB3	23:W:129:PHE:CZ	2.21	0.76
25:Y:128:VAL:HG22	25:Y:375:ARG:HA	1.68	0.76
25:Y:346:MET:C	25:Y:384:LEU:HD21	2.11	0.76
32:f:377:SER:OG	33:g:70:LEU:HD22	1.85	0.76
1:A:1436:ILE:HD12	2:B:1144:ALA:HB2	1.66	0.76
6:F:132:LEU:HB3	7:G:61:ILE:HD13	1.68	0.76
23:W:97:LEU:O	23:W:101:LEU:HB2	1.85	0.76
25:Y:212:TYR:OH	25:Y:222:VAL:CG2	2.33	0.76
25:Y:353:SER:H	25:Y:380:ARG:NH1	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:421:GLU:N	25:Y:422:PRO:CD	2.48	0.76
25:Y:627:PHE:CD1	25:Y:654:LEU:HD11	2.21	0.76
25:Y:639:LEU:HD23	25:Y:649:ARG:CB	2.15	0.76
25:Y:693:LEU:HG	25:Y:696:TRP:CZ2	2.21	0.76
32:f:103:LEU:HD23	33:g:98:ASN:CA	2.16	0.76
22:V:73:LEU:O	22:V:76:ILE:HG22	1.86	0.76
25:Y:54:SER:O	25:Y:57:ILE:HG22	1.85	0.76
25:Y:230:SER:C	25:Y:455:SER:HB2	2.11	0.76
25:Y:352:ILE:CG1	25:Y:380:ARG:NH2	2.49	0.76
32:f:103:LEU:HD21	33:g:98:ASN:CB	2.11	0.76
1:A:1433:MET:CE	2:B:1145:SER:OG	2.33	0.76
26:Z:453:VAL:HG21	26:Z:482:TRP:CZ2	2.22	0.76
33:g:59:LEU:CD2	33:g:214:ILE:HD11	2.16	0.76
34:h:145:THR:C	34:h:146:GLU:OE1	2.26	0.76
38:l:58:DG:H2''	38:l:59:DT:OP2	1.84	0.76
25:Y:28:ILE:HG22	25:Y:57:ILE:HD12	1.68	0.75
25:Y:253:THR:CG2	25:Y:434:ILE:HG23	2.15	0.75
25:Y:257:LEU:CD2	25:Y:383:LEU:CD1	2.32	0.75
25:Y:288:LYS:HG3	25:Y:335:LEU:CD1	2.16	0.75
26:Z:485:ILE:HD11	26:Z:510:LYS:HG2	1.67	0.75
32:f:375:LEU:HD21	33:g:70:LEU:HD13	1.66	0.75
32:f:404:LEU:CB	32:f:412:ARG:HH22	1.98	0.75
36:j:194:ILE:CD1	38:l:19:DT:P	2.74	0.75
38:l:41:DA:H2'	38:l:42:DT:C5'	2.17	0.75
1:A:227:VAL:HG21	4:D:16:LYS:CE	2.07	0.75
26:Z:368:LYS:HZ2	26:Z:372:LYS:HD2	1.50	0.75
26:Z:447:GLN:H	26:Z:452:LEU:HD13	1.49	0.75
33:g:307:PHE:HZ	33:g:349:TYR:CD1	2.05	0.75
34:h:124:CYS:CB	34:h:129:THR:HG23	2.16	0.75
36:j:114:LEU:CB	39:m:143:DT:O2	2.35	0.75
25:Y:288:LYS:HG3	25:Y:335:LEU:HB3	0.76	0.75
25:Y:338:LEU:HD12	25:Y:341:TYR:CE1	2.20	0.75
25:Y:378:SER:OG	25:Y:381:LEU:CB	2.33	0.75
25:Y:550:ILE:CG2	25:Y:554:TRP:CH2	2.57	0.75
26:Z:425:LEU:HD23	26:Z:425:LEU:O	1.87	0.75
33:g:113:ASN:OD1	33:g:115:SER:CB	2.25	0.75
34:h:45:GLN:CB	35:i:202:PHE:HD1	1.99	0.75
34:h:123:MET:CG	34:h:130:LYS:HD2	2.15	0.75
38:l:58:DG:N3	38:l:59:DT:C2	2.53	0.75
17:Q:20:ILE:CG1	17:Q:87:PHE:CE2	2.69	0.75
17:Q:49:VAL:HG21	18:R:114:ASN:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:62:PHE:CE2	18:R:201:ALA:CB	2.64	0.75
25:Y:71:TYR:CD2	25:Y:233:ILE:CD1	2.70	0.75
26:Z:297:ILE:HD11	26:Z:346:ASP:OD2	1.86	0.75
32:f:108:LYS:HZ3	33:g:106:LEU:HD22	1.50	0.75
32:f:374:VAL:HG21	32:f:386:MET:HE2	1.67	0.75
38:l:47:DC:H2''	38:l:48:DT:O5'	1.86	0.75
1:A:1442:ASP:O	6:F:135:ARG:N	2.13	0.75
1:A:1445:ILE:CG2	6:F:132:LEU:HD21	2.14	0.75
25:Y:276:LYS:HG3	25:Y:337:ARG:HH21	1.50	0.75
26:Z:368:LYS:HD2	26:Z:372:LYS:CE	2.16	0.75
32:f:119:LEU:CD2	32:f:391:LYS:HB2	2.17	0.75
33:g:307:PHE:O	35:i:133:GLU:CD	2.29	0.75
34:h:46:LEU:HD11	34:h:132:THR:HG23	1.69	0.75
34:h:66:LEU:O	34:h:89:VAL:HG13	1.85	0.75
34:h:90:LYS:HB3	34:h:93:HIS:CB	2.17	0.75
35:i:188:SER:OG	35:i:189:PRO:CD	2.33	0.75
38:l:41:DA:H2'	38:l:42:DT:O4'	1.86	0.75
1:A:52:GLY:C	1:A:56:PRO:HG3	2.12	0.75
1:A:497:THR:HG22	2:B:1146:PHE:HD1	1.52	0.75
1:A:1390:ASN:O	1:A:1399:ARG:CD	2.34	0.75
2:B:451:LYS:HZ1	29:c:138:ASP:CG	1.94	0.75
17:Q:16:TYR:CE2	17:Q:87:PHE:CA	2.67	0.75
20:T:100:ILE:HD12	22:V:129:ARG:HB2	1.67	0.75
26:Z:458:SER:HB3	26:Z:467:SER:HB3	1.68	0.75
31:e:87:VAL:HG12	31:e:88:GLU:N	2.01	0.75
32:f:341:LYS:HG2	32:f:413:MET:SD	2.25	0.75
33:g:118:HIS:CE1	33:g:120:TYR:CZ	2.70	0.75
34:h:144:ARG:O	34:h:146:GLU:OE2	2.03	0.75
35:i:136:GLN:CG	35:i:180:TYR:HE2	1.96	0.75
36:j:122:VAL:CG1	38:l:22:DA:C2	2.61	0.75
2:B:433:GLN:CD	32:f:326:ARG:CD	2.59	0.75
26:Z:354:ILE:H	26:Z:447:GLN:HE22	1.34	0.75
26:Z:425:LEU:CG	26:Z:429:THR:HG23	2.16	0.75
34:h:44:LYS:CE	34:h:54:LEU:HB2	2.16	0.75
38:l:64:DC:H2''	38:l:65:DA:H5'	1.67	0.75
21:U:26:SER:CB	37:k:25:SER:HB3	2.15	0.75
25:Y:440:LEU:CD1	25:Y:638:ARG:HG2	2.17	0.75
26:Z:412:THR:CG2	39:m:104:DA:OP1	2.35	0.75
26:Z:425:LEU:HG	26:Z:429:THR:CG2	2.15	0.75
33:g:63:ARG:HG3	33:g:215:VAL:CB	2.16	0.75
33:g:69:TRP:CZ3	33:g:220:HIS:HD2	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:g:308:ASP:HA	35:i:133:GLU:OE2	1.87	0.75
38:l:58:DG:N2	38:l:59:DT:O2	2.20	0.75
9:I:17:ARG:CG	40:n:20:GLU:CA	2.65	0.75
25:Y:346:MET:O	25:Y:384:LEU:CG	2.35	0.75
32:f:134:HIS:CG	32:f:352:MET:CE	2.69	0.75
32:f:369:ASN:OD1	32:f:370:SER:N	2.18	0.75
4:D:165:GLN:NE2	37:k:1:PRO:HB3	2.01	0.74
25:Y:162:LEU:HA	25:Y:195:ILE:HG12	1.69	0.74
26:Z:315:SER:O	26:Z:323:VAL:HG13	1.87	0.74
26:Z:335:TYR:CD1	26:Z:336:PRO:HD3	2.21	0.74
26:Z:429:THR:HB	26:Z:432:PRO:CD	2.17	0.74
26:Z:476:PHE:HZ	26:Z:493:VAL:HG11	1.51	0.74
26:Z:519:ARG:HG3	26:Z:524:ILE:CG2	2.17	0.74
34:h:41:ASP:OD1	35:i:202:PHE:CD2	2.40	0.74
4:D:40:HIS:HB3	7:G:73:LYS:HE3	1.67	0.74
25:Y:162:LEU:CD2	25:Y:195:ILE:HG13	2.17	0.74
25:Y:526:LEU:HD23	25:Y:554:TRP:CZ2	2.19	0.74
33:g:61:LEU:CD2	33:g:214:ILE:HD12	2.16	0.74
34:h:126:ILE:HG12	34:h:154:GLU:CD	2.12	0.74
17:Q:86:ASN:CA	17:Q:89:ILE:HG12	2.16	0.74
20:T:103:ASP:OD1	20:T:107:LEU:HD21	1.87	0.74
25:Y:495:MET:HB3	25:Y:686:PHE:CZ	2.23	0.74
26:Z:351:ASP:HB2	26:Z:482:TRP:HZ3	1.53	0.74
16:P:240:SER:HA	37:k:6:THR:HG1	1.50	0.74
17:Q:85:LEU:O	17:Q:89:ILE:CG2	2.30	0.74
33:g:306:LEU:CD1	33:g:313:TRP:CE2	2.70	0.74
35:i:224:LEU:O	35:i:224:LEU:HD13	1.87	0.74
39:m:123:DA:H2''	39:m:124:DA:H5'	1.68	0.74
1:A:1436:ILE:HD12	1:A:1436:ILE:O	1.87	0.74
6:F:92:ARG:HH21	7:G:64:THR:N	1.85	0.74
22:V:82:ASN:HB2	22:V:86:GLN:NE2	2.03	0.74
25:Y:185:CYS:HB3	25:Y:190:LEU:O	1.86	0.74
26:Z:470:SER:HA	26:Z:478:THR:HG23	1.67	0.74
1:A:418:SER:CA	29:c:49:GLY:HA3	2.17	0.74
13:M:22:LEU:O	13:M:24:THR:N	2.21	0.74
25:Y:32:LEU:HB2	25:Y:61:MET:HE2	1.68	0.74
25:Y:248:LEU:CG	25:Y:445:ALA:HB2	2.18	0.74
25:Y:440:LEU:CD2	25:Y:641:PHE:CD2	2.71	0.74
25:Y:643:ARG:CB	25:Y:649:ARG:HB3	2.14	0.74
30:d:284:GLU:HG2	30:d:286:VAL:HG23	1.69	0.74
34:h:17:VAL:HG12	34:h:66:LEU:HD11	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:61:DG:H2''	38:l:62:DT:H5'	1.68	0.74
20:T:62:ARG:C	20:T:66:ASN:HD21	1.96	0.74
25:Y:327:ARG:O	25:Y:417:LEU:CD2	2.35	0.74
25:Y:440:LEU:HD21	25:Y:641:PHE:CG	2.19	0.74
34:h:123:MET:HA	34:h:130:LYS:CD	2.18	0.74
1:A:1445:ILE:CG2	7:G:66:GLY:O	2.36	0.74
18:R:43:ARG:HH21	18:R:117:MET:HE1	1.49	0.74
18:R:72:ILE:HG21	18:R:202:TYR:HE1	0.93	0.74
20:T:37:LEU:O	20:T:41:GLN:HB3	1.88	0.74
32:f:106:ILE:HD12	32:f:384:PHE:CE1	2.22	0.74
32:f:139:LEU:CG	32:f:350:TRP:CZ2	2.69	0.74
32:f:149:PHE:HE1	32:f:338:ASN:OD1	1.62	0.74
33:g:86:ASN:ND2	33:g:92:LEU:HB3	2.02	0.74
34:h:14:LYS:O	34:h:17:VAL:HG22	1.86	0.74
35:i:154:LYS:NZ	35:i:154:LYS:HB3	2.03	0.74
1:A:836:TYR:CZ	1:A:1403:GLU:OE2	2.41	0.74
17:Q:48:ASP:O	18:R:47:LYS:CE	2.35	0.74
20:T:87:LEU:HA	20:T:90:TYR:CD2	2.23	0.74
25:Y:67:ARG:CB	25:Y:230:SER:HB2	2.18	0.74
26:Z:476:PHE:CE1	26:Z:487:LEU:HD21	2.23	0.74
35:i:162:LEU:HD22	35:i:162:LEU:N	2.01	0.74
20:T:100:ILE:HD12	22:V:129:ARG:HG3	1.68	0.74
26:Z:362:ILE:CG2	26:Z:366:GLN:HB2	2.18	0.74
31:e:19:LEU:HD22	31:e:23:LEU:HD22	1.68	0.74
20:T:49:TYR:CE1	20:T:73:LEU:HG	2.22	0.73
30:d:3:ASN:HD22	30:d:6:ALA:H	1.36	0.73
32:f:119:LEU:HD22	32:f:391:LYS:CA	2.18	0.73
32:f:152:THR:HG21	32:f:337:GLU:CD	2.13	0.73
32:f:353:GLU:O	32:f:354:ASP:HB2	1.88	0.73
35:i:162:LEU:CD2	35:i:162:LEU:H	2.01	0.73
1:A:95:PHE:CE1	1:A:1414:ALA:HB2	2.23	0.73
20:T:100:ILE:HD12	22:V:129:ARG:CG	2.18	0.73
20:T:122:HIS:CE1	20:T:126:LYS:HG3	2.23	0.73
23:W:80:LEU:HD23	23:W:81:PRO:HD2	1.69	0.73
34:h:52:THR:CB	35:i:237:LYS:HD2	2.09	0.73
18:R:57:MET:SD	18:R:71:LEU:HD23	2.27	0.73
20:T:111:THR:O	20:T:115:LEU:HD12	1.88	0.73
25:Y:90:MET:HE1	25:Y:175:VAL:HG23	1.71	0.73
25:Y:586:TYR:CD1	25:Y:616:TYR:CE2	2.75	0.73
26:Z:356:LEU:HG	26:Z:427:TRP:HD1	1.53	0.73
1:A:1447:GLU:OE2	7:G:26:LEU:HD13	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:38:LEU:HD11	8:H:123:MET:HE2	1.70	0.73
25:Y:190:LEU:O	25:Y:190:LEU:HD12	1.89	0.73
25:Y:193:TYR:OH	25:Y:221:ARG:CZ	2.36	0.73
25:Y:327:ARG:HB2	25:Y:330:HIS:HE1	1.49	0.73
25:Y:352:ILE:N	25:Y:380:ARG:NH1	2.35	0.73
33:g:311:ASP:OD2	35:i:151:LEU:CG	2.35	0.73
4:D:203:SER:HB3	4:D:206:GLU:HB2	1.70	0.73
12:L:30:ILE:O	12:L:56:LEU:HA	1.88	0.73
12:L:48:CYS:HB3	12:L:51:CYS:O	1.88	0.73
25:Y:274:VAL:HG12	25:Y:275:ARG:N	2.02	0.73
32:f:139:LEU:CD2	32:f:350:TRP:HZ2	1.98	0.73
1:A:89:PRO:HG2	1:A:204:THR:CB	2.16	0.73
2:B:430:ARG:CB	32:f:326:ARG:HH12	2.00	0.73
2:B:868:MET:O	29:c:182:ARG:NH2	2.21	0.73
2:B:1221:SER:N	4:D:14:ARG:NH2	2.36	0.73
6:F:96:THR:CA	7:G:64:THR:O	2.36	0.73
21:U:186:ARG:HH22	23:W:100:LYS:HE3	1.53	0.73
22:V:94:ILE:O	22:V:98:LEU:HG	1.87	0.73
22:V:143:LEU:HD12	22:V:144:TYR:N	2.04	0.73
26:Z:333:ILE:O	26:Z:333:ILE:HD13	1.87	0.73
32:f:139:LEU:CD1	32:f:350:TRP:NE1	2.52	0.73
34:h:46:LEU:CG	34:h:132:THR:CG2	2.66	0.73
35:i:166:LEU:C	35:i:166:LEU:HD12	2.14	0.73
1:A:346:ASP:OD1	2:B:1106:ARG:NE	2.21	0.73
18:R:4:SER:CB	18:R:200:LEU:HG	2.18	0.73
20:T:73:LEU:HD23	20:T:73:LEU:O	1.88	0.73
24:X:43:LEU:HD21	24:X:85:LEU:HD11	1.70	0.73
25:Y:127:THR:CG2	25:Y:361:GLN:CD	2.61	0.73
25:Y:293:LEU:HD13	25:Y:433:PRO:CB	2.18	0.73
25:Y:416:PHE:CE2	25:Y:637:ALA:HB1	2.23	0.73
26:Z:297:ILE:HG13	26:Z:344:ARG:HB2	1.69	0.73
36:j:99:PHE:HB3	39:m:143:DT:C5'	2.18	0.73
17:Q:106:ARG:NH2	17:Q:211:PHE:HZ	1.85	0.73
18:R:109:SER:O	18:R:113:SER:HB3	1.88	0.73
26:Z:585:PRO:CB	26:Z:756:ARG:HH22	1.96	0.73
33:g:306:LEU:CG	33:g:313:TRP:CE2	2.72	0.73
33:g:349:TYR:CD1	33:g:349:TYR:O	2.41	0.73
38:l:42:DT:C2'	38:l:43:DT:H5'	2.19	0.73
25:Y:497:ILE:HG23	25:Y:684:ARG:CG	2.16	0.73
25:Y:497:ILE:HG13	25:Y:686:PHE:CZ	2.24	0.73
32:f:110:ASP:OD2	33:g:92:LEU:HD22	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:143:LEU:CD1	35:i:145:ASN:N	2.52	0.73
36:j:116:PHE:HE1	38:l:23:DA:C2	1.92	0.73
36:j:190:PHE:CZ	38:l:18:DA:N1	2.56	0.73
20:T:94:TYR:CE2	22:V:109:GLU:HB3	2.24	0.73
33:g:306:LEU:HD11	33:g:313:TRP:CD2	2.23	0.73
33:g:306:LEU:HD23	33:g:318:LEU:CD2	2.19	0.73
1:A:35:ILE:HA	1:A:52:GLY:O	1.89	0.72
1:A:50:ILE:O	1:A:52:GLY:N	2.22	0.72
2:B:1125:ASP:OD2	29:c:39:SER:O	2.07	0.72
8:H:84:ALA:HA	8:H:87:ARG:HB2	1.71	0.72
16:P:619:ILE:CB	16:P:634:MET:CA	2.58	0.72
13:M:139:VAL:CA	13:M:152:ASP:CB	2.66	0.72
22:V:85:ASN:HA	22:V:88:GLU:CD	2.15	0.72
25:Y:273:GLU:HG2	25:Y:274:VAL:HG23	1.69	0.72
25:Y:469:TYR:N	25:Y:470:PRO:HD2	2.03	0.72
26:Z:383:ILE:HG13	26:Z:517:LEU:HD13	1.71	0.72
32:f:137:VAL:HG13	33:g:59:LEU:CB	2.12	0.72
34:h:56:PRO:HG3	35:i:237:LYS:NZ	1.90	0.72
22:V:79:ASP:OD2	22:V:94:ILE:HG12	1.88	0.72
22:V:133:LEU:HA	22:V:136:LYS:HE2	1.70	0.72
22:V:140:LEU:O	22:V:140:LEU:HD23	1.90	0.72
26:Z:446:PHE:HB2	26:Z:452:LEU:CD2	2.18	0.72
34:h:123:MET:SD	34:h:130:LYS:HD2	2.30	0.72
35:i:238:ASP:OD1	35:i:243:TYR:CE1	2.42	0.72
1:A:419:LYS:HZ1	29:c:48:CYS:HB3	1.51	0.72
1:A:726:ARG:HD3	1:A:766:GLY:HA3	1.71	0.72
25:Y:59:TYR:N	25:Y:62:HIS:CD2	2.56	0.72
25:Y:248:LEU:CD1	25:Y:445:ALA:HB2	2.18	0.72
26:Z:455:SER:OG	26:Z:466:ARG:HG3	1.89	0.72
26:Z:717:TYR:HE2	26:Z:718:TYR:HE1	0.77	0.72
35:i:128:LEU:HD22	35:i:162:LEU:CD1	2.14	0.72
38:l:58:DG:H2'	38:l:59:DT:H71	1.70	0.72
1:A:1445:ILE:O	7:G:68:ALA:HB1	1.88	0.72
26:Z:368:LYS:CD	26:Z:372:LYS:HE2	2.19	0.72
26:Z:485:ILE:HG21	26:Z:505:ILE:HD13	1.72	0.72
1:A:419:LYS:HE3	29:c:47:LEU:C	2.15	0.72
25:Y:200:ILE:HD12	25:Y:225:GLU:O	1.88	0.72
25:Y:231:ILE:HA	25:Y:455:SER:HB3	1.68	0.72
25:Y:467:ASP:HA	25:Y:470:PRO:HG3	1.70	0.72
32:f:120:LYS:CE	33:g:72:ARG:HD2	2.19	0.72
35:i:238:ASP:OD1	35:i:243:TYR:CZ	2.43	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:66:ARG:NH2	10:J:3:VAL:O	2.23	0.72
22:V:86:GLN:HA	22:V:89:THR:HG22	1.71	0.72
25:Y:495:MET:HB2	25:Y:686:PHE:CD1	2.24	0.72
25:Y:565:LYS:HD3	25:Y:597:ILE:CD1	2.19	0.72
33:g:61:LEU:HD22	33:g:214:ILE:HD12	1.71	0.72
34:h:32:ILE:HG21	34:h:89:VAL:HG23	1.71	0.72
34:h:52:THR:O	35:i:237:LYS:NZ	2.21	0.72
35:i:140:LYS:HZ2	35:i:142:VAL:HG12	1.39	0.72
35:i:184:TYR:CD2	35:i:186:VAL:N	2.54	0.72
38:l:64:DC:H2'	38:l:65:DA:C8	2.23	0.72
1:A:418:SER:HA	29:c:49:GLY:HA3	1.72	0.72
2:B:1215:ARG:CD	4:D:15:LEU:HD12	2.15	0.72
21:U:134:ILE:CD1	23:W:63:SER:HB2	2.20	0.72
25:Y:72:CYS:SG	25:Y:234:PHE:HA	2.30	0.72
25:Y:212:TYR:CE2	25:Y:222:VAL:HG21	2.24	0.72
25:Y:495:MET:HB3	25:Y:686:PHE:CD1	2.24	0.72
33:g:350:THR:HG23	35:i:130:TRP:CE3	2.23	0.72
34:h:149:CYS:SG	34:h:151:LEU:HD13	2.30	0.72
36:j:112:THR:OG1	39:m:145:DA:H5'	1.90	0.72
26:Z:410:LEU:HD22	26:Z:477:LEU:CD1	2.15	0.72
26:Z:475:ASP:HB2	26:Z:478:THR:H	1.54	0.72
33:g:74:PRO:CG	33:g:223:GLN:CA	2.61	0.72
1:A:227:VAL:HG22	4:D:16:LYS:CE	2.20	0.72
1:A:418:SER:HA	29:c:48:CYS:O	1.90	0.72
1:A:1450:LEU:CA	7:G:18:PHE:O	2.38	0.72
2:B:350:GLN:CG	32:f:407:ASP:HB3	2.19	0.72
6:F:92:ARG:HD2	7:G:64:THR:OG1	1.89	0.72
25:Y:259:ARG:CB	25:Y:379:GLU:CD	2.60	0.72
26:Z:410:LEU:HB2	26:Z:466:ARG:NH2	2.01	0.72
26:Z:516:THR:N	26:Z:681:ARG:CD	2.52	0.72
4:D:165:GLN:NE2	37:k:1:PRO:CG	2.53	0.71
6:F:75:PRO:HG2	6:F:78:GLN:HB2	1.72	0.71
20:T:90:TYR:O	20:T:93:ILE:HG22	1.90	0.71
25:Y:71:TYR:CD2	25:Y:233:ILE:HD13	2.24	0.71
25:Y:171:LEU:HD21	25:Y:181:LEU:HD22	1.72	0.71
25:Y:208:TYR:CE1	25:Y:213:LEU:CB	2.72	0.71
25:Y:349:LEU:HD12	25:Y:380:ARG:CD	2.20	0.71
26:Z:476:PHE:CA	26:Z:485:ILE:HB	2.20	0.71
32:f:347:PHE:CE1	32:f:364:SER:OG	2.43	0.71
2:B:430:ARG:HG2	32:f:326:ARG:NH1	2.05	0.71
2:B:430:ARG:HG2	32:f:326:ARG:HH12	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:T:42:LEU:CD1	20:T:80:LEU:HD12	2.20	0.71
25:Y:193:TYR:HH	25:Y:221:ARG:CZ	2.03	0.71
26:Z:668:THR:HG23	26:Z:694:LYS:CB	2.14	0.71
26:Z:696:ARG:HD2	26:Z:699:GLU:O	1.89	0.71
34:h:126:ILE:O	34:h:128:LEU:HD22	1.89	0.71
15:O:93:GLN:HA	16:P:345:GLY:H	1.54	0.71
25:Y:419:ILE:H	25:Y:633:ARG:HH11	1.32	0.71
25:Y:481:LYS:CD	25:Y:483:TYR:CE2	2.74	0.71
26:Z:427:TRP:HB2	26:Z:449:GLU:CD	2.15	0.71
26:Z:447:GLN:O	26:Z:452:LEU:HB3	1.88	0.71
26:Z:473:VAL:N	26:Z:478:THR:HG22	2.05	0.71
26:Z:561:MET:HB2	27:a:450:ARG:HH22	0.54	0.71
32:f:141:ARG:CZ	32:f:348:TYR:CZ	2.72	0.71
34:h:123:MET:CG	34:h:130:LYS:HD3	2.20	0.71
36:j:120:LYS:HB3	38:l:23:DA:H2''	1.71	0.71
37:k:4:SER:HB2	37:k:5:PRO:CD	2.19	0.71
20:T:91:ASP:HA	22:V:111:THR:CG2	2.17	0.71
25:Y:327:ARG:CZ	25:Y:330:HIS:NE2	2.52	0.71
25:Y:355:THR:N	25:Y:356:PRO:CD	2.54	0.71
26:Z:373:MET:HA	26:Z:381:SER:HA	1.72	0.71
26:Z:487:LEU:HD23	26:Z:493:VAL:CG2	2.10	0.71
34:h:44:LYS:HA	34:h:44:LYS:CE	2.16	0.71
34:h:120:ASN:OD1	34:h:133:GLN:CG	2.39	0.71
34:h:146:GLU:OE1	34:h:146:GLU:N	2.22	0.71
17:Q:97:LYS:HE2	17:Q:243:ASN:CA	2.21	0.71
25:Y:167:VAL:CG1	25:Y:195:ILE:CG2	2.68	0.71
25:Y:167:VAL:HG22	25:Y:190:LEU:HD22	1.73	0.71
25:Y:327:ARG:NH1	25:Y:330:HIS:HE1	1.83	0.71
26:Z:429:THR:CB	26:Z:432:PRO:HD2	2.20	0.71
32:f:121:PHE:CE1	32:f:395:PHE:CE2	2.78	0.71
1:A:1445:ILE:CD1	7:G:18:PHE:CE1	2.52	0.71
2:B:1215:ARG:NE	4:D:15:LEU:HD13	1.83	0.71
25:Y:462:THR:HG22	25:Y:660:ARG:HG3	1.71	0.71
25:Y:643:ARG:HB2	25:Y:649:ARG:CB	2.14	0.71
34:h:27:LEU:CD2	34:h:129:THR:CB	2.68	0.71
36:j:190:PHE:CZ	38:l:18:DA:N3	2.59	0.71
1:A:192:GLY:HA3	39:m:116:DG:H4'	1.71	0.71
2:B:1198:TYR:CE2	2:B:1201:LYS:HE3	2.25	0.71
18:R:46:ILE:HA	18:R:47:LYS:NZ	2.04	0.71
20:T:100:ILE:CD1	22:V:129:ARG:HG3	2.21	0.71
25:Y:28:ILE:HB	25:Y:57:ILE:HG13	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:42:MET:HG3	25:Y:50:VAL:HG22	1.71	0.71
25:Y:237:ALA:CB	25:Y:458:ILE:CG2	2.69	0.71
25:Y:570:LEU:HD12	25:Y:600:SER:HB3	1.71	0.71
26:Z:477:LEU:HG	26:Z:501:VAL:CB	2.20	0.71
16:P:311:LYS:CB	16:P:423:LYS:CB	2.68	0.71
22:V:119:PRO:O	22:V:122:TRP:CG	2.43	0.71
25:Y:293:LEU:HD11	25:Y:433:PRO:CB	2.20	0.71
25:Y:550:ILE:O	25:Y:554:TRP:CE2	2.43	0.71
26:Z:380:ARG:CA	26:Z:535:LEU:HD22	2.20	0.71
35:i:226:GLU:HG3	35:i:227:ASP:N	2.05	0.71
35:i:238:ASP:CB	35:i:243:TYR:CE1	2.73	0.71
1:A:1445:ILE:HG21	7:G:18:PHE:CE2	2.21	0.71
21:U:132:GLU:OE2	21:U:139:ILE:HD11	1.91	0.71
24:X:85:LEU:O	24:X:89:MET:HG2	1.91	0.71
25:Y:135:ARG:HH21	25:Y:143:ARG:CZ	2.00	0.71
25:Y:161:ASN:O	25:Y:167:VAL:HG21	1.90	0.71
30:d:262:LEU:HB2	30:d:279:ALA:HB3	1.72	0.71
33:g:63:ARG:HB3	33:g:215:VAL:CA	2.15	0.71
38:l:58:DG:H4'	38:l:59:DT:C5'	2.20	0.71
1:A:1436:ILE:HD11	2:B:1144:ALA:HB2	1.73	0.71
2:B:430:ARG:HA	32:f:326:ARG:CZ	2.19	0.71
16:P:315:SER:CB	16:P:425:ILE:N	2.54	0.71
25:Y:215:ASP:O	25:Y:218:ILE:CG2	2.39	0.71
25:Y:272:SER:HB2	25:Y:348:VAL:CG1	2.21	0.71
36:j:71:VAL:CG2	39:m:145:DA:C2	2.73	0.71
36:j:153:THR:HG22	36:j:154:ASP:N	2.04	0.71
1:A:1447:GLU:HB3	7:G:22:MET:CE	2.15	0.70
14:N:120:PRO:C	14:N:122:VAL:H	1.97	0.70
12:L:32:ALA:HB3	12:L:55:ILE:HD12	1.71	0.70
25:Y:349:LEU:CD1	25:Y:380:ARG:CG	2.68	0.70
25:Y:350:HIS:CE1	25:Y:381:LEU:HD12	2.26	0.70
11:K:58:PHE:HB3	11:K:76:GLN:HB3	1.71	0.70
21:U:182:LEU:HB2	23:W:101:LEU:HD13	1.73	0.70
22:V:119:PRO:O	22:V:122:TRP:NE1	2.17	0.70
25:Y:440:LEU:HD21	25:Y:641:PHE:HB3	1.64	0.70
26:Z:495:ALA:HB3	26:Z:498:PHE:CD2	2.21	0.70
34:h:124:CYS:HB3	34:h:129:THR:CG2	2.21	0.70
34:h:144:ARG:O	34:h:145:THR:OG1	2.09	0.70
35:i:162:LEU:N	35:i:162:LEU:CD2	2.54	0.70
1:A:1444:MET:SD	7:G:60:ARG:HB2	2.31	0.70
18:R:72:ILE:HG21	18:R:202:TYR:CZ	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:T:91:ASP:CG	22:V:66:ILE:HG13	2.16	0.70
22:V:83:LEU:O	22:V:84:SER:CB	2.39	0.70
25:Y:128:VAL:N	25:Y:376:PHE:HE2	1.82	0.70
25:Y:656:PHE:CD1	25:Y:659:MET:SD	2.84	0.70
26:Z:474:MET:HB2	26:Z:480:ARG:HA	1.73	0.70
35:i:191:GLU:N	35:i:226:GLU:OE2	2.25	0.70
38:l:59:DT:OP2	38:l:59:DT:H3'	1.91	0.70
4:D:165:GLN:NE2	37:k:1:PRO:N	2.35	0.70
14:N:62:TRP:O	14:N:65:LEU:N	2.24	0.70
20:T:55:LYS:CB	20:T:62:ARG:HG3	2.21	0.70
22:V:132:GLU:O	22:V:136:LYS:HE2	1.91	0.70
25:Y:622:MET:HG2	25:Y:679:MET:HE3	1.72	0.70
35:i:183:THR:CG2	35:i:225:GLU:OE2	2.40	0.70
36:j:71:VAL:CG2	39:m:145:DA:H2	2.05	0.70
20:T:112:ARG:HA	20:T:115:LEU:HD13	1.73	0.70
25:Y:193:TYR:OH	25:Y:221:ARG:NH1	2.24	0.70
34:h:17:VAL:HG11	34:h:29:LEU:CD2	2.21	0.70
35:i:130:TRP:CG	35:i:151:LEU:CD2	2.75	0.70
1:A:1197:LEU:HD11	1:A:1238:ILE:HD11	1.74	0.70
17:Q:86:ASN:HD22	17:Q:87:PHE:N	1.88	0.70
25:Y:418:LEU:HB3	25:Y:633:ARG:NE	2.06	0.70
25:Y:485:MET:HG3	25:Y:486:THR:HG23	1.72	0.70
25:Y:639:LEU:HD21	25:Y:649:ARG:CG	2.21	0.70
26:Z:500:ARG:HA	26:Z:500:ARG:HE	1.56	0.70
34:h:123:MET:HG3	34:h:130:LYS:CD	2.21	0.70
35:i:126:SER:N	35:i:127:LYS:HZ1	1.89	0.70
35:i:183:THR:O	35:i:222:ASN:HB2	1.92	0.70
1:A:419:LYS:NZ	29:c:27:CYS:SG	2.62	0.70
2:B:868:MET:O	29:c:182:ARG:CZ	2.40	0.70
17:Q:97:LYS:HB3	17:Q:243:ASN:HD22	1.55	0.70
25:Y:72:CYS:SG	25:Y:234:PHE:HD1	2.14	0.70
26:Z:356:LEU:HG	26:Z:427:TRP:CD1	2.26	0.70
26:Z:466:ARG:CB	26:Z:477:LEU:HB2	2.22	0.70
26:Z:475:ASP:HB2	26:Z:478:THR:N	2.06	0.70
29:c:208:ASN:ND2	36:j:186:GLU:OE2	2.25	0.70
35:i:194:LYS:HZ1	35:i:210:LEU:CD1	2.05	0.70
35:i:205:ILE:CG2	35:i:209:ASP:HB2	2.16	0.70
16:P:241:MET:CB	37:k:10:TYR:CZ	2.74	0.70
20:T:80:LEU:HD21	22:V:73:LEU:CD1	2.21	0.70
32:f:108:LYS:CD	33:g:95:ILE:HD11	2.21	0.70
33:g:107:LEU:HG	33:g:119:GLU:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:185:ALA:HA	5:E:190:LEU:HD12	1.74	0.70
25:Y:450:PHE:CZ	25:Y:475:PHE:CD2	2.80	0.70
25:Y:639:LEU:CG	25:Y:653:PHE:CD2	2.61	0.70
32:f:108:LYS:CD	33:g:106:LEU:HD13	2.22	0.70
33:g:318:LEU:CD2	33:g:349:TYR:CZ	2.72	0.70
35:i:233:LEU:HD13	35:i:233:LEU:H	1.55	0.70
25:Y:339:ILE:HG22	25:Y:343:LYS:HE3	1.73	0.69
25:Y:495:MET:HB2	25:Y:686:PHE:CE1	2.27	0.69
26:Z:455:SER:CB	26:Z:466:ARG:HH11	2.01	0.69
33:g:333:LEU:HD22	33:g:349:TYR:HD2	1.53	0.69
25:Y:244:CYS:SG	25:Y:446:ILE:HD13	2.32	0.69
26:Z:316:PHE:CZ	26:Z:321:GLU:HA	2.27	0.69
26:Z:400:ALA:CB	26:Z:450:SER:HA	2.22	0.69
26:Z:455:SER:CB	26:Z:466:ARG:HG3	2.21	0.69
26:Z:473:VAL:O	26:Z:478:THR:HB	1.92	0.69
25:Y:200:ILE:CG2	25:Y:226:VAL:HG21	2.19	0.69
25:Y:350:HIS:HB2	25:Y:384:LEU:CD1	2.22	0.69
25:Y:463:ILE:HD11	25:Y:469:TYR:CD1	2.27	0.69
25:Y:567:LYS:HG2	25:Y:597:ILE:CB	2.23	0.69
26:Z:351:ASP:HB2	26:Z:482:TRP:CZ3	2.28	0.69
26:Z:467:SER:HA	26:Z:501:VAL:HG12	1.74	0.69
36:j:109:PRO:HG2	36:j:135:ALA:HB2	1.74	0.69
25:Y:122:LYS:HD3	25:Y:218:ILE:HD13	1.72	0.69
25:Y:495:MET:CB	25:Y:686:PHE:CE1	2.75	0.69
26:Z:362:ILE:HG23	26:Z:366:GLN:CB	2.23	0.69
26:Z:459:MET:C	26:Z:464:ARG:HG3	2.17	0.69
34:h:46:LEU:CG	34:h:132:THR:HG23	2.22	0.69
34:h:142:PHE:O	34:h:144:ARG:NH2	2.25	0.69
25:Y:518:ILE:CG2	25:Y:522:TYR:CZ	2.71	0.69
26:Z:448:THR:O	26:Z:452:LEU:HB2	1.92	0.69
34:h:46:LEU:HD23	34:h:132:THR:HG21	1.70	0.69
35:i:143:LEU:CD1	35:i:144:VAL:N	2.45	0.69
1:A:1451:VAL:HA	7:G:19:GLY:HA2	1.75	0.69
6:F:96:THR:HG23	7:G:65:ASP:CA	2.23	0.69
6:F:96:THR:HG23	7:G:66:GLY:N	2.06	0.69
22:V:117:LYS:HG2	22:V:121:GLU:HB3	1.72	0.69
25:Y:111:ARG:CD	25:Y:129:VAL:HG21	2.22	0.69
34:h:71:LYS:O	34:h:71:LYS:HD2	1.93	0.69
35:i:203:LYS:NZ	35:i:247:ASN:ND2	2.41	0.69
1:A:140:THR:HA	1:A:143:LYS:HE2	1.75	0.69
1:A:320:ARG:NH2	29:c:81:GLU:HG3	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:81:MET:HE1	17:Q:92:SER:HB3	1.62	0.69
25:Y:196:VAL:O	25:Y:200:ILE:CG2	2.39	0.69
25:Y:248:LEU:HD21	25:Y:445:ALA:CB	2.20	0.69
26:Z:613:TYR:OH	26:Z:762:GLU:HG2	1.91	0.69
32:f:375:LEU:CD2	33:g:134:VAL:HG11	2.23	0.69
38:l:58:DG:C2'	38:l:59:DT:H5'	2.22	0.69
1:A:317:LYS:O	2:B:471:LYS:HE3	1.89	0.69
14:N:120:PRO:C	14:N:122:VAL:N	2.49	0.69
16:P:240:SER:CB	37:k:6:THR:HB	2.23	0.69
17:Q:191:LEU:HD11	18:R:81:THR:HB	1.75	0.69
21:U:25:GLN:CB	37:k:24:TYR:HB3	2.19	0.69
25:Y:124:ARG:HA	25:Y:376:PHE:CZ	2.27	0.69
25:Y:349:LEU:N	25:Y:380:ARG:NH2	2.40	0.69
26:Z:408:ILE:HG21	26:Z:476:PHE:N	2.07	0.69
26:Z:410:LEU:HD22	26:Z:476:PHE:CD2	2.27	0.69
26:Z:476:PHE:CD1	26:Z:487:LEU:HD11	2.28	0.69
32:f:121:PHE:CE1	32:f:395:PHE:CZ	2.81	0.69
32:f:127:ILE:CG2	32:f:361:TRP:CZ3	2.49	0.69
35:i:224:LEU:HD13	35:i:224:LEU:C	2.18	0.69
21:U:130:TYR:CE2	21:U:134:ILE:CD1	2.74	0.69
26:Z:474:MET:HB2	26:Z:480:ARG:N	2.07	0.69
27:a:447:GLU:N	28:b:13:ASP:OD2	2.26	0.69
32:f:375:LEU:HD22	33:g:134:VAL:HG11	1.73	0.69
35:i:136:GLN:C	35:i:137:LYS:HD2	2.17	0.69
1:A:417:TYR:CE2	29:c:37:ARG:CD	2.75	0.69
20:T:42:LEU:O	20:T:46:LEU:HD13	1.93	0.69
20:T:90:TYR:CD1	22:V:112:LYS:HD3	2.28	0.69
20:T:114:ILE:HG13	22:V:143:LEU:CD1	2.17	0.69
25:Y:515:ASP:HB2	25:Y:518:ILE:CD1	2.23	0.69
26:Z:354:ILE:H	26:Z:447:GLN:NE2	1.89	0.69
34:h:128:LEU:HD22	34:h:128:LEU:N	2.07	0.69
35:i:135:ILE:CD1	35:i:180:TYR:CD2	2.60	0.69
23:W:68:LEU:O	23:W:72:GLN:HG3	1.92	0.68
25:Y:58:ALA:O	25:Y:62:HIS:HD2	1.68	0.68
25:Y:272:SER:HB2	25:Y:281:LYS:HZ2	1.53	0.68
25:Y:331:PHE:HB2	25:Y:435:MET:HE1	1.75	0.68
26:Z:495:ALA:CB	26:Z:498:PHE:HD2	2.03	0.68
26:Z:496:ALA:HA	26:Z:499:ARG:HH12	1.57	0.68
32:f:358:TYR:CG	32:f:359:ASN:N	2.61	0.68
34:h:41:ASP:OD2	35:i:202:PHE:CD2	2.44	0.68
35:i:205:ILE:CD1	35:i:208:LYS:HB2	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:231:LEU:HA	35:i:232:VAL:HB	1.75	0.68
1:A:344:ARG:HA	2:B:1128:LEU:O	1.93	0.68
22:V:86:GLN:HG2	22:V:90:LEU:CD1	2.23	0.68
24:X:52:PRO:HG3	37:k:24:TYR:CD2	2.28	0.68
31:e:38:MET:O	31:e:42:GLU:HG3	1.94	0.68
20:T:123:ASP:N	23:W:131:ASP:O	2.26	0.68
22:V:140:LEU:HD23	22:V:140:LEU:C	2.18	0.68
26:Z:373:MET:CG	26:Z:381:SER:HA	2.22	0.68
27:a:488:LYS:NZ	28:b:35:LEU:O	2.26	0.68
34:h:45:GLN:CD	35:i:202:PHE:CD1	2.71	0.68
1:A:412:ARG:HB3	29:c:51:VAL:CG1	2.24	0.68
1:A:445:ASN:HB2	1:A:455:MET:HG2	1.76	0.68
25:Y:59:TYR:CD2	25:Y:62:HIS:HE1	2.10	0.68
26:Z:459:MET:SD	39:m:104:DA:H5"	2.34	0.68
26:Z:474:MET:HB2	26:Z:480:ARG:C	2.18	0.68
26:Z:475:ASP:OD2	26:Z:478:THR:HB	1.93	0.68
26:Z:561:MET:N	27:a:450:ARG:HH12	1.91	0.68
31:e:44:PHE:O	31:e:48:VAL:HG23	1.93	0.68
33:g:333:LEU:HA	33:g:337:ALA:HB2	1.76	0.68
2:B:430:ARG:CG	32:f:326:ARG:HH12	2.07	0.68
20:T:67:LEU:O	20:T:68:ASP:C	2.36	0.68
21:U:130:TYR:CZ	21:U:134:ILE:HD11	2.28	0.68
25:Y:185:CYS:SG	25:Y:192:PRO:HA	2.33	0.68
25:Y:200:ILE:CD1	25:Y:225:GLU:C	2.66	0.68
25:Y:639:LEU:HD23	25:Y:649:ARG:HD2	1.62	0.68
26:Z:477:LEU:HG	26:Z:501:VAL:HB	1.74	0.68
26:Z:740:HIS:CD2	26:Z:740:HIS:O	2.47	0.68
32:f:108:LYS:HD3	33:g:106:LEU:HD11	1.75	0.68
34:h:45:GLN:CB	35:i:202:PHE:CD1	2.73	0.68
35:i:160:ILE:CD1	35:i:160:ILE:O	2.42	0.68
35:i:166:LEU:HD13	35:i:167:ASP:N	2.08	0.68
14:N:85:HIS:O	14:N:88:GLU:CB	2.41	0.68
17:Q:81:MET:HE1	17:Q:92:SER:CB	2.19	0.68
20:T:57:VAL:HG13	22:V:87:LEU:HD11	1.75	0.68
20:T:82:GLU:O	20:T:86:LEU:HD23	1.94	0.68
25:Y:167:VAL:CG1	25:Y:195:ILE:HG21	2.23	0.68
25:Y:226:VAL:O	25:Y:226:VAL:HG22	1.91	0.68
25:Y:293:LEU:HD12	25:Y:433:PRO:CB	2.22	0.68
35:i:160:ILE:HD12	35:i:160:ILE:O	1.93	0.68
17:Q:97:LYS:CE	17:Q:243:ASN:CA	2.71	0.68
17:Q:298:SER:O	17:Q:299:ARG:O	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:298:GLY:O	26:Z:346:ASP:HB2	1.93	0.68
26:Z:407:VAL:HG12	26:Z:448:THR:HA	1.74	0.68
26:Z:477:LEU:CB	26:Z:501:VAL:HB	2.24	0.68
26:Z:527:LEU:CD2	26:Z:531:ILE:HD12	2.14	0.68
32:f:108:LYS:HZ2	33:g:106:LEU:HD13	1.58	0.68
1:A:1451:VAL:CG1	7:G:20:PRO:HB3	2.24	0.68
20:T:115:LEU:O	23:W:131:ASP:OD2	2.12	0.68
22:V:117:LYS:CG	22:V:121:GLU:HB3	2.14	0.68
25:Y:244:CYS:SG	25:Y:446:ILE:HB	2.34	0.68
25:Y:349:LEU:CD1	25:Y:380:ARG:NE	2.40	0.68
25:Y:416:PHE:CG	25:Y:637:ALA:HB1	2.28	0.68
25:Y:499:LYS:CB	25:Y:522:TYR:CD1	2.74	0.68
25:Y:567:LYS:HE2	25:Y:597:ILE:CG2	2.13	0.68
26:Z:476:PHE:CD2	26:Z:477:LEU:HD12	2.29	0.68
33:g:313:TRP:CB	33:g:349:TYR:CE1	2.57	0.68
34:h:14:LYS:HD3	34:h:151:LEU:HB2	1.62	0.68
34:h:124:CYS:H	34:h:130:LYS:HZ1	1.02	0.68
34:h:156:LEU:H	34:h:156:LEU:HD23	1.57	0.68
35:i:127:LYS:H	35:i:127:LYS:CE	2.02	0.68
1:A:870:GLU:HB2	5:E:204:THR:HG21	1.75	0.68
3:C:18:VAL:HG23	3:C:240:VAL:HB	1.74	0.68
25:Y:225:GLU:O	25:Y:226:VAL:CG1	2.42	0.68
25:Y:571:VAL:CG1	25:Y:572:GLU:H	2.07	0.68
32:f:377:SER:HA	33:g:70:LEU:HD22	1.75	0.68
36:j:141:ARG:O	36:j:141:ARG:HD3	1.93	0.68
37:k:21:SER:N	37:k:22:PRO:CD	2.56	0.68
1:A:1445:ILE:HG23	6:F:132:LEU:HD23	1.36	0.68
12:L:38:LEU:O	12:L:39:SER:HB3	1.93	0.68
22:V:99:LYS:HZ2	22:V:100:LEU:N	1.92	0.68
26:Z:310:ILE:CD1	26:Z:313:VAL:HG23	2.24	0.68
26:Z:397:ILE:CD1	26:Z:423:GLN:HE21	2.05	0.68
26:Z:476:PHE:HA	26:Z:485:ILE:CB	2.24	0.68
3:C:259:LEU:HD22	11:K:91:CYS:HB3	1.75	0.67
25:Y:200:ILE:HA	25:Y:226:VAL:HG21	1.73	0.67
25:Y:215:ASP:HB3	25:Y:218:ILE:HG21	1.75	0.67
25:Y:420:ILE:HD12	25:Y:633:ARG:NH2	2.01	0.67
25:Y:656:PHE:O	25:Y:659:MET:HG2	1.93	0.67
32:f:138:ARG:CZ	33:g:57:LEU:HB2	2.19	0.67
34:h:123:MET:HG3	34:h:130:LYS:HD2	1.76	0.67
38:l:59:DT:H1'	38:l:60:DT:H5'	1.76	0.67
39:m:126:DC:H2''	39:m:127:DG:OP2	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:PHE:HE1	1:A:375:THR:HG22	1.60	0.67
1:A:1447:GLU:CA	7:G:22:MET:SD	2.82	0.67
17:Q:86:ASN:OD1	17:Q:220:VAL:HG12	1.94	0.67
17:Q:108:ILE:HG22	17:Q:109:LEU:H	1.58	0.67
22:V:128:GLN:O	22:V:131:GLN:HG2	1.93	0.67
25:Y:123:GLU:OE1	25:Y:217:LYS:NZ	2.27	0.67
25:Y:170:TYR:HD2	25:Y:176:PHE:HZ	1.41	0.67
25:Y:267:LEU:O	25:Y:268:ASP:CB	2.40	0.67
26:Z:373:MET:HG3	26:Z:381:SER:CA	2.23	0.67
35:i:166:LEU:CD1	35:i:167:ASP:N	2.58	0.67
37:k:3:TYR:C	37:k:4:SER:HG	1.97	0.67
1:A:1447:GLU:CG	7:G:22:MET:CE	2.42	0.67
20:T:126:LYS:CG	23:W:132:GLY:O	2.43	0.67
26:Z:421:ARG:NE	26:Z:430:LEU:HD11	2.07	0.67
26:Z:474:MET:N	26:Z:481:GLU:H	1.87	0.67
26:Z:487:LEU:HD23	26:Z:490:VAL:HG23	1.77	0.67
29:c:70:ASP:HB3	29:c:78:ARG:HD2	1.75	0.67
33:g:350:THR:CB	35:i:130:TRP:HZ3	2.07	0.67
35:i:193:LEU:HD12	35:i:214:TRP:CH2	2.30	0.67
7:G:138:THR:HG22	7:G:139:ILE:H	1.59	0.67
22:V:117:LYS:CE	22:V:121:GLU:CB	2.58	0.67
23:W:86:SER:O	23:W:90:GLN:HG3	1.95	0.67
25:Y:499:LYS:HZ3	25:Y:522:TYR:C	2.00	0.67
26:Z:485:ILE:HD11	26:Z:510:LYS:CG	2.24	0.67
26:Z:522:ASP:HA	26:Z:524:ILE:CD1	2.24	0.67
33:g:306:LEU:HG	33:g:313:TRP:CD2	2.29	0.67
33:g:306:LEU:HG	33:g:313:TRP:NE1	2.10	0.67
1:A:1445:ILE:CG1	7:G:67:SER:C	2.67	0.67
16:P:308:TYR:CB	16:P:362:GLU:CB	2.73	0.67
17:Q:20:ILE:CG1	17:Q:87:PHE:CD2	2.77	0.67
17:Q:86:ASN:CG	17:Q:220:VAL:CG1	2.66	0.67
25:Y:185:CYS:SG	25:Y:192:PRO:CA	2.83	0.67
26:Z:408:ILE:HG21	26:Z:475:ASP:C	2.19	0.67
35:i:136:GLN:CG	35:i:180:TYR:CE2	2.56	0.67
35:i:233:LEU:HD13	35:i:233:LEU:N	2.10	0.67
5:E:4:GLU:HB3	5:E:7:ARG:HE	1.59	0.67
16:P:410:VAL:CB	16:P:502:ASN:CB	2.72	0.67
17:Q:86:ASN:HD22	17:Q:87:PHE:H	1.43	0.67
20:T:84:VAL:HG13	22:V:70:PHE:CE2	2.29	0.67
25:Y:212:TYR:CZ	25:Y:222:VAL:HG21	2.29	0.67
25:Y:389:GLU:O	25:Y:393:VAL:HG13	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:418:LEU:CD1	25:Y:438:THR:OG1	2.39	0.67
25:Y:656:PHE:HA	25:Y:659:MET:CE	2.24	0.67
33:g:318:LEU:HD11	33:g:349:TYR:CZ	2.29	0.67
35:i:158:LYS:CE	35:i:162:LEU:HG	2.25	0.67
22:V:102:LYS:O	22:V:105:ILE:HG22	1.95	0.67
25:Y:346:MET:O	25:Y:384:LEU:HD21	1.95	0.67
26:Z:303:ARG:HG2	26:Z:504:THR:CB	2.22	0.67
26:Z:356:LEU:CG	26:Z:427:TRP:HD1	2.07	0.67
26:Z:403:ILE:HD13	26:Z:484:PHE:CD2	2.30	0.67
26:Z:757:ARG:HH12	26:Z:760:LEU:HG	0.50	0.67
33:g:79:GLU:OE2	33:g:106:LEU:HD23	1.95	0.67
33:g:333:LEU:HB3	33:g:337:ALA:CB	2.25	0.67
2:B:429:PHE:HA	2:B:432:MET:HE2	1.77	0.67
22:V:146:LYS:CE	23:W:129:PHE:HZ	2.07	0.67
26:Z:672:GLN:OE1	26:Z:686:ARG:NH2	2.27	0.67
32:f:149:PHE:CE1	32:f:338:ASN:CG	2.69	0.67
33:g:306:LEU:CD2	33:g:318:LEU:CD2	2.73	0.67
35:i:141:PRO:C	35:i:142:VAL:CG1	2.68	0.67
35:i:179:LYS:HD3	35:i:179:LYS:H	1.59	0.67
7:G:1:MET:SD	7:G:2:PHE:N	2.63	0.67
17:Q:224:MET:HE1	17:Q:230:LEU:HD12	1.77	0.67
25:Y:467:ASP:C	25:Y:470:PRO:CG	2.68	0.67
25:Y:492:PHE:CE2	25:Y:494:PRO:HG3	2.30	0.67
34:h:151:LEU:H	34:h:151:LEU:CD1	2.07	0.67
1:A:53:LEU:CD2	1:A:54:ASN:H	2.06	0.67
1:A:871:ASP:HB3	5:E:204:THR:HG23	1.76	0.67
9:I:10:CYS:SG	40:n:63:ALA:CA	2.83	0.67
17:Q:97:LYS:HD3	17:Q:243:ASN:CB	2.07	0.67
21:U:73:ASN:HD22	21:U:75:GLN:HE21	1.40	0.67
21:U:165:TYR:HE2	23:W:80:LEU:HD21	1.60	0.67
22:V:99:LYS:HD2	22:V:99:LYS:C	2.19	0.67
26:Z:352:LEU:O	26:Z:447:GLN:HB3	1.95	0.67
26:Z:383:ILE:HG22	26:Z:512:GLY:CA	2.24	0.67
26:Z:407:VAL:HG13	26:Z:451:GLY:HA2	1.76	0.67
26:Z:408:ILE:HD11	26:Z:466:ARG:CD	2.25	0.67
26:Z:456:THR:O	26:Z:465:ASN:HB3	1.94	0.67
33:g:105:THR:OG1	33:g:119:GLU:HG2	1.95	0.67
34:h:37:VAL:HG12	34:h:88:TYR:HB2	1.77	0.67
36:j:190:PHE:CG	38:l:18:DA:N9	2.63	0.67
17:Q:86:ASN:OD1	17:Q:220:VAL:HG11	1.95	0.66
22:V:81:ASN:HB2	22:V:90:LEU:HD22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:V:146:LYS:CG	23:W:129:PHE:HZ	1.83	0.66
23:W:60:ASP:O	23:W:64:THR:HG22	1.94	0.66
25:Y:182:LEU:HD12	25:Y:192:PRO:HG2	1.75	0.66
25:Y:346:MET:O	25:Y:384:LEU:CD2	2.42	0.66
26:Z:561:MET:C	27:a:450:ARG:NH2	2.53	0.66
33:g:344:PRO:O	33:g:345:TYR:HB2	1.95	0.66
34:h:124:CYS:HB2	34:h:129:THR:HG23	1.77	0.66
38:l:61:DG:OP2	38:l:61:DG:H8	1.78	0.66
13:M:136:ASN:N	13:M:155:ILE:O	2.20	0.66
25:Y:272:SER:CB	25:Y:348:VAL:HG11	2.24	0.66
26:Z:373:MET:HE2	26:Z:511:LEU:CD1	2.25	0.66
34:h:123:MET:CA	34:h:130:LYS:CD	2.73	0.66
35:i:205:ILE:HG23	35:i:209:ASP:CB	2.18	0.66
14:N:118:ASN:CB	37:k:17:TYR:HD1	2.07	0.66
17:Q:79:THR:O	17:Q:82:ASP:CB	2.42	0.66
22:V:82:ASN:C	22:V:83:LEU:HD12	2.21	0.66
24:X:52:PRO:CB	37:k:24:TYR:CE2	2.78	0.66
25:Y:162:LEU:HD23	25:Y:195:ILE:CG1	2.24	0.66
25:Y:278:ASP:OD2	25:Y:352:ILE:HG21	1.94	0.66
25:Y:335:LEU:HD13	25:Y:335:LEU:H	1.60	0.66
25:Y:492:PHE:CZ	25:Y:707:ASN:OD1	2.48	0.66
26:Z:447:GLN:C	26:Z:452:LEU:HB3	2.21	0.66
34:h:52:THR:CA	35:i:237:LYS:HD3	2.25	0.66
35:i:135:ILE:O	35:i:139:GLY:N	2.26	0.66
35:i:236:LYS:HE3	35:i:243:TYR:CG	2.30	0.66
2:B:296:GLU:OE1	32:f:126:LYS:CE	2.44	0.66
16:P:380:ASP:O	16:P:381:PHE:C	2.37	0.66
18:R:43:ARG:HB2	18:R:119:ARG:CG	2.19	0.66
25:Y:288:LYS:HG3	25:Y:335:LEU:HD12	1.77	0.66
26:Z:386:LEU:HB3	26:Z:387:PRO:HD2	1.75	0.66
26:Z:428:CYS:CB	26:Z:434:ASN:HB2	2.15	0.66
26:Z:452:LEU:O	26:Z:452:LEU:HD23	1.96	0.66
26:Z:466:ARG:HB2	26:Z:477:LEU:HB2	1.76	0.66
33:g:74:PRO:CD	33:g:223:GLN:HA	2.25	0.66
37:k:4:SER:CB	37:k:5:PRO:HD3	2.22	0.66
1:A:15:LYS:NZ	2:B:1220:ARG:HE	1.93	0.66
20:T:55:LYS:CE	20:T:62:ARG:HE	2.09	0.66
21:U:25:GLN:CA	37:k:24:TYR:CG	2.78	0.66
22:V:69:ILE:HD11	22:V:108:ASN:ND2	2.11	0.66
25:Y:90:MET:HE1	25:Y:175:VAL:CG2	2.25	0.66
25:Y:171:LEU:CB	25:Y:172:PRO:HD3	2.22	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:213:LEU:O	25:Y:213:LEU:HD13	1.96	0.66
25:Y:656:PHE:CA	25:Y:659:MET:HE3	2.23	0.66
26:Z:476:PHE:HB2	26:Z:485:ILE:HB	1.76	0.66
35:i:131:ALA:O	35:i:135:ILE:HG23	1.94	0.66
35:i:193:LEU:HD22	35:i:193:LEU:N	2.11	0.66
1:A:1450:LEU:HB3	7:G:22:MET:SD	2.35	0.66
9:I:33:SER:OG	40:n:78:GLU:CA	2.44	0.66
12:L:40:LEU:HD13	12:L:44:ASP:HB3	1.77	0.66
25:Y:350:HIS:HE1	25:Y:381:LEU:HD11	1.57	0.66
26:Z:356:LEU:HD23	26:Z:448:THR:HG21	1.76	0.66
26:Z:370:LEU:HD11	26:Z:398:THR:CG2	2.25	0.66
30:d:260:CYS:HB2	30:d:281:VAL:HB	1.78	0.66
32:f:113:ASN:C	32:f:114:MET:HG2	2.14	0.66
32:f:331:GLN:HB3	39:m:130:DC:H5"	1.77	0.66
1:A:311:GLN:HG3	1:A:312:PRO:HD2	1.77	0.66
26:Z:410:LEU:HD22	26:Z:476:PHE:HD2	1.60	0.66
32:f:108:LYS:HE3	33:g:95:ILE:HD11	1.76	0.66
1:A:1451:VAL:CG2	7:G:22:MET:CG	2.65	0.66
25:Y:357:LYS:HG3	25:Y:376:PHE:HB2	1.76	0.66
26:Z:474:MET:H	26:Z:481:GLU:N	1.89	0.66
26:Z:485:ILE:HG23	26:Z:507:ALA:CB	2.26	0.66
2:B:563:MET:HE1	2:B:587:HIS:HB2	1.77	0.66
2:B:879:ARG:HG3	2:B:885:MET:HE2	1.78	0.66
16:P:323:PHE:O	16:P:339:TYR:N	2.28	0.66
17:Q:3:GLN:HB2	17:Q:259:VAL:CG2	2.26	0.66
17:Q:97:LYS:HZ3	17:Q:244:SER:N	1.63	0.66
25:Y:68:LYS:HG3	25:Y:228:LYS:HG3	1.74	0.66
34:h:17:VAL:HG12	34:h:66:LEU:CD2	2.26	0.66
36:j:221:GLU:O	36:j:225:GLN:HG3	1.96	0.66
1:A:227:VAL:CG1	4:D:16:LYS:CG	2.65	0.66
2:B:846:ILE:HG23	2:B:974:PRO:HG2	1.78	0.66
12:L:58:LYS:O	12:L:58:LYS:HG2	1.96	0.66
14:N:85:HIS:HA	14:N:88:GLU:CB	2.25	0.66
18:R:53:VAL:HG12	18:R:54:SER:H	1.61	0.66
20:T:46:LEU:O	20:T:50:GLU:HG3	1.95	0.66
21:U:156:VAL:HG12	21:U:157:ASN:N	2.11	0.66
22:V:82:ASN:H	22:V:86:GLN:HE22	1.43	0.66
25:Y:171:LEU:HD21	25:Y:181:LEU:CD2	2.26	0.66
25:Y:337:ARG:CZ	25:Y:345:ARG:CD	2.74	0.66
25:Y:646:TYR:CB	25:Y:648:ILE:HG12	2.24	0.66
26:Z:439:THR:HG23	26:Z:465:ASN:HD22	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:453:VAL:HG21	26:Z:482:TRP:HZ2	1.61	0.66
38:l:58:DG:C2'	38:l:59:DT:H71	2.26	0.66
39:m:135:DC:H2'	39:m:136:DA:C8	2.31	0.66
13:M:140:GLY:O	13:M:150:LEU:HA	1.95	0.65
25:Y:56:THR:HG22	25:Y:60:GLN:NE2	2.11	0.65
25:Y:215:ASP:HB3	25:Y:218:ILE:HG22	1.78	0.65
25:Y:479:LEU:HD22	25:Y:479:LEU:C	2.21	0.65
25:Y:622:MET:CG	25:Y:679:MET:HE3	2.25	0.65
26:Z:452:LEU:HD23	26:Z:452:LEU:C	2.21	0.65
26:Z:477:LEU:CG	26:Z:501:VAL:HB	2.24	0.65
26:Z:519:ARG:HG3	26:Z:524:ILE:HG22	1.76	0.65
34:h:67:ILE:HD13	34:h:67:ILE:H	1.60	0.65
35:i:138:LYS:HG2	35:i:140:LYS:HD3	1.77	0.65
1:A:317:LYS:C	2:B:471:LYS:HZ2	1.98	0.65
2:B:296:GLU:O	2:B:300:HIS:HD2	1.80	0.65
22:V:66:ILE:HB	22:V:67:PRO:HD3	1.78	0.65
24:X:52:PRO:CB	37:k:24:TYR:HE2	2.07	0.65
25:Y:418:LEU:CD2	25:Y:633:ARG:HD2	2.26	0.65
25:Y:681:LEU:HD21	25:Y:696:TRP:CH2	2.31	0.65
26:Z:455:SER:HB3	26:Z:466:ARG:HD3	1.77	0.65
26:Z:466:ARG:HD2	26:Z:475:ASP:OD2	1.96	0.65
26:Z:622:MET:HE3	26:Z:653:PHE:CZ	2.32	0.65
33:g:310:TYR:CE2	35:i:150:TYR:O	2.49	0.65
34:h:120:ASN:OD1	34:h:133:GLN:HG2	1.95	0.65
35:i:191:GLU:C	35:i:195:LEU:CD2	2.68	0.65
1:A:388:LEU:O	1:A:392:VAL:HG23	1.96	0.65
2:B:773:MET:HE1	2:B:985:GLY:HA2	1.79	0.65
17:Q:85:LEU:HD13	17:Q:88:ARG:H	1.60	0.65
20:T:93:ILE:HD12	22:V:122:TRP:HE3	0.49	0.65
22:V:149:ARG:O	23:W:126:ILE:HD11	1.96	0.65
25:Y:493:LEU:HB3	25:Y:696:TRP:CD1	2.31	0.65
25:Y:664:GLN:HA	25:Y:664:GLN:HE21	1.61	0.65
26:Z:356:LEU:HD12	26:Z:427:TRP:HB3	1.78	0.65
26:Z:430:LEU:O	26:Z:430:LEU:HD23	1.96	0.65
26:Z:434:ASN:HB3	26:Z:449:GLU:OE1	1.95	0.65
32:f:102:PRO:HD2	32:f:102:PRO:O	1.95	0.65
32:f:119:LEU:HD22	32:f:391:LYS:N	2.12	0.65
32:f:138:ARG:HH11	33:g:57:LEU:HD13	1.56	0.65
32:f:345:GLU:CD	32:f:416:LYS:HB3	2.21	0.65
34:h:44:LYS:HE3	34:h:54:LEU:HD13	1.78	0.65
36:j:220:ARG:HD3	36:j:224:TYR:CE2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:74:GLN:HE21	21:U:77:ARG:HD3	1.60	0.65
25:Y:251:ASP:HB3	25:Y:436:ARG:NE	2.11	0.65
25:Y:357:LYS:HE2	25:Y:376:PHE:CE1	2.28	0.65
25:Y:569:ILE:HG22	25:Y:571:VAL:HG22	1.76	0.65
26:Z:348:ARG:C	26:Z:350:PRO:HD3	2.21	0.65
26:Z:505:ILE:HG21	26:Z:507:ALA:HB3	1.78	0.65
26:Z:621:LYS:HZ2	26:Z:621:LYS:HB2	1.60	0.65
26:Z:677:TYR:CD1	26:Z:677:TYR:O	2.50	0.65
32:f:108:LYS:CE	33:g:95:ILE:HD11	2.27	0.65
33:g:59:LEU:HD23	33:g:214:ILE:HD11	1.78	0.65
33:g:333:LEU:CA	33:g:337:ALA:CB	2.75	0.65
34:h:44:LYS:NZ	34:h:49:ILE:HB	2.11	0.65
2:B:857:ARG:NH1	2:B:945:GLU:OE2	2.29	0.65
25:Y:269:GLU:HG2	25:Y:277:VAL:CG1	2.18	0.65
25:Y:327:ARG:CZ	25:Y:330:HIS:HE1	2.02	0.65
25:Y:445:ALA:O	25:Y:448:PRO:HD2	1.96	0.65
26:Z:456:THR:HB	26:Z:465:ASN:ND2	2.11	0.65
26:Z:460:VAL:CG2	38:l:65:DA:O3'	2.41	0.65
1:A:316:GLN:O	1:A:318:SER:N	2.29	0.65
2:B:433:GLN:HB2	32:f:326:ARG:CZ	2.27	0.65
20:T:90:TYR:HB3	22:V:112:LYS:N	2.07	0.65
25:Y:76:MET:HA	25:Y:79:ILE:HD12	1.79	0.65
26:Z:500:ARG:O	26:Z:504:THR:HG23	1.97	0.65
26:Z:522:ASP:C	26:Z:524:ILE:HD13	2.22	0.65
34:h:40:GLU:HA	34:h:54:LEU:HD23	1.79	0.65
1:A:1436:ILE:HD12	1:A:1436:ILE:C	2.20	0.65
2:B:1215:ARG:HD3	4:D:15:LEU:CD1	2.16	0.65
12:L:39:SER:O	12:L:40:LEU:HG	1.97	0.65
17:Q:86:ASN:O	17:Q:89:ILE:CG1	2.44	0.65
21:U:26:SER:HB2	37:k:25:SER:CB	2.27	0.65
25:Y:354:GLU:C	25:Y:356:PRO:HD2	2.21	0.65
26:Z:385:VAL:O	26:Z:386:LEU:HD23	1.97	0.65
32:f:118:LEU:HD12	32:f:387:ILE:CB	2.23	0.65
34:h:68:SER:HB3	34:h:90:LYS:NZ	2.12	0.65
34:h:124:CYS:CB	34:h:129:THR:CG2	2.75	0.65
1:A:1409:LEU:HD13	2:B:1207:LEU:HD21	1.79	0.65
1:A:1447:GLU:HA	7:G:22:MET:SD	2.36	0.65
25:Y:467:ASP:HA	25:Y:470:PRO:CG	2.26	0.65
25:Y:497:ILE:CG2	25:Y:497:ILE:O	2.45	0.65
33:g:333:LEU:CA	33:g:337:ALA:HB3	2.27	0.65
34:h:141:ASN:CG	34:h:148:LEU:HD12	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:183:THR:HB	35:i:222:ASN:OD1	1.95	0.65
17:Q:104:MET:O	17:Q:108:ILE:O	2.15	0.65
20:T:45:ASP:CG	20:T:76:THR:HG23	2.22	0.65
25:Y:71:TYR:HD2	25:Y:233:ILE:CD1	2.10	0.65
25:Y:495:MET:SD	25:Y:696:TRP:HE3	2.14	0.65
25:Y:499:LYS:HE2	25:Y:525:MET:CG	2.26	0.65
26:Z:353:ASP:HB2	26:Z:448:THR:OG1	1.96	0.65
26:Z:373:MET:HG3	26:Z:381:SER:CB	2.27	0.65
26:Z:373:MET:HE2	26:Z:511:LEU:HD13	1.79	0.65
26:Z:473:VAL:CG1	26:Z:481:GLU:HG3	2.27	0.65
26:Z:474:MET:HE2	26:Z:480:ARG:O	1.96	0.65
26:Z:476:PHE:CB	26:Z:485:ILE:HB	2.27	0.65
33:g:306:LEU:CG	33:g:313:TRP:CD2	2.80	0.65
35:i:164:LYS:HD2	35:i:165:LYS:HG2	1.77	0.65
35:i:233:LEU:HD22	35:i:233:LEU:C	2.22	0.65
38:l:18:DA:H2''	38:l:19:DT:H5'	1.77	0.65
38:l:59:DT:H3'	38:l:59:DT:P	2.37	0.65
17:Q:98:ILE:HG22	17:Q:99:PRO:N	2.12	0.65
18:R:189:LEU:H	18:R:189:LEU:HD13	1.60	0.65
25:Y:230:SER:O	25:Y:455:SER:OG	2.15	0.65
25:Y:273:GLU:HG2	25:Y:274:VAL:N	2.12	0.65
25:Y:438:THR:HG21	25:Y:634:ILE:HG23	1.79	0.65
25:Y:569:ILE:HG22	25:Y:571:VAL:CG2	2.27	0.65
26:Z:502:VAL:HB	26:Z:530:LEU:HD13	1.79	0.65
32:f:120:LYS:NZ	33:g:72:ARG:CG	2.56	0.65
34:h:31:ALA:O	34:h:34:PHE:HB3	1.96	0.65
38:l:55:DT:H2''	38:l:56:DG:OP2	1.96	0.65
3:C:56:THR:HG21	3:C:145:CYS:SG	2.36	0.64
8:H:82:PRO:C	8:H:84:ALA:H	2.05	0.64
20:T:39:LYS:CD	22:V:115:LEU:HA	2.26	0.64
25:Y:167:VAL:CG2	25:Y:190:LEU:HD22	2.27	0.64
25:Y:342:LEU:CD1	25:Y:346:MET:HE2	2.28	0.64
26:Z:476:PHE:O	26:Z:505:ILE:HD11	1.97	0.64
32:f:138:ARG:NH1	33:g:57:LEU:CG	2.60	0.64
32:f:377:SER:HA	33:g:70:LEU:CD2	2.27	0.64
34:h:41:ASP:CG	35:i:202:PHE:CD2	2.74	0.64
34:h:130:LYS:CA	34:h:130:LYS:CE	1.94	0.64
34:h:147:PHE:HB3	34:h:156:LEU:HD11	1.79	0.64
1:A:46:THR:HG22	1:A:47:ARG:H	1.61	0.64
25:Y:135:ARG:NH2	25:Y:143:ARG:NH2	2.44	0.64
25:Y:193:TYR:HE2	25:Y:197:ARG:NH1	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:351:ASP:CB	26:Z:482:TRP:HZ3	2.09	0.64
38:l:59:DT:H2"	38:l:60:DT:OP2	1.97	0.64
1:A:1436:ILE:HD11	2:B:1144:ALA:CA	2.28	0.64
12:L:32:ALA:HB3	12:L:55:ILE:CD1	2.27	0.64
14:N:67:SER:O	14:N:71:VAL:CB	2.46	0.64
14:N:69:LEU:O	14:N:73:LEU:CB	2.44	0.64
25:Y:493:LEU:HD22	25:Y:696:TRP:HE1	1.53	0.64
26:Z:696:ARG:CZ	26:Z:704:PHE:CZ	2.80	0.64
33:g:333:LEU:CD2	33:g:349:TYR:CD2	2.79	0.64
34:h:124:CYS:HB3	34:h:129:THR:HG23	1.78	0.64
35:i:143:LEU:HD13	35:i:145:ASN:H	1.58	0.64
36:j:71:VAL:HG21	39:m:145:DA:C2	2.32	0.64
36:j:114:LEU:HD22	39:m:143:DT:O2	1.97	0.64
2:B:110:HIS:HE1	12:L:54:ARG:HH12	1.45	0.64
2:B:996:ARG:HG3	2:B:1007:VAL:HG11	1.78	0.64
22:V:69:ILE:HG12	22:V:104:LEU:CB	2.26	0.64
25:Y:208:TYR:CD1	25:Y:213:LEU:HB2	2.33	0.64
25:Y:232:VAL:HG23	25:Y:453:PHE:CE2	2.29	0.64
34:h:45:GLN:CG	35:i:202:PHE:HD1	2.11	0.64
1:A:1447:GLU:OE2	7:G:70:PHE:CE1	2.50	0.64
12:L:31:CYS:SG	12:L:34:CYS:N	2.69	0.64
17:Q:85:LEU:CD1	17:Q:88:ARG:HB3	2.25	0.64
25:Y:83:LEU:CD1	25:Y:177:SER:HA	2.27	0.64
25:Y:648:ILE:CD1	25:Y:652:ASP:OD2	2.46	0.64
26:Z:403:ILE:HG21	26:Z:405:LYS:HG2	1.78	0.64
32:f:138:ARG:HA	33:g:57:LEU:O	1.98	0.64
32:f:139:LEU:HD13	32:f:350:TRP:CE3	2.27	0.64
33:g:292:ILE:CB	33:g:295:PRO:HG3	2.13	0.64
36:j:79:ARG:HH22	38:l:25:DA:P	2.21	0.64
39:m:99:DT:H2"	39:m:100:DA:OP2	1.97	0.64
1:A:1445:ILE:HG23	6:F:132:LEU:HD22	1.72	0.64
2:B:68:THR:HG22	2:B:91:SER:HA	1.80	0.64
6:F:92:ARG:NE	7:G:63:PRO:C	2.56	0.64
20:T:91:ASP:O	20:T:95:ARG:HG3	1.96	0.64
21:U:25:GLN:OE1	37:k:24:TYR:CD2	2.46	0.64
25:Y:170:TYR:HD2	25:Y:176:PHE:CZ	2.15	0.64
25:Y:289:LEU:HD22	25:Y:435:MET:CG	2.27	0.64
25:Y:443:SER:HA	25:Y:473:LEU:HA	1.80	0.64
25:Y:518:ILE:O	25:Y:522:TYR:CE2	2.50	0.64
25:Y:567:LYS:CD	25:Y:597:ILE:HG21	2.27	0.64
25:Y:571:VAL:HG12	25:Y:572:GLU:CB	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:664:GLN:HA	25:Y:664:GLN:NE2	2.13	0.64
32:f:108:LYS:HD3	33:g:106:LEU:HD13	1.79	0.64
34:h:126:ILE:HG13	34:h:154:GLU:HG2	0.66	0.64
9:I:28:GLU:CD	40:n:21:VAL:CA	2.71	0.64
17:Q:3:GLN:HB2	17:Q:259:VAL:HG22	1.78	0.64
18:R:187:ASP:OD1	18:R:203:GLN:HG2	1.97	0.64
23:W:73:ILE:O	23:W:77:ILE:HG13	1.98	0.64
25:Y:339:ILE:CG2	25:Y:343:LYS:HE3	2.27	0.64
25:Y:525:MET:HE3	25:Y:529:PHE:CZ	2.33	0.64
26:Z:343:PHE:HE2	26:Z:345:ASN:HB2	1.63	0.64
32:f:396:THR:OG1	32:f:401:TYR:CE2	2.50	0.64
34:h:90:LYS:HB3	34:h:93:HIS:HB2	1.79	0.64
34:h:124:CYS:SG	34:h:154:GLU:HB3	2.37	0.64
1:A:368:LYS:CG	1:A:399:HIS:HD2	2.06	0.64
1:A:1451:VAL:HA	7:G:19:GLY:CA	2.28	0.64
13:M:1:MET:N	24:X:91:SER:HA	2.13	0.64
13:M:166:ILE:HA	14:N:95:VAL:CA	2.26	0.64
18:R:4:SER:CB	18:R:200:LEU:CG	2.75	0.64
18:R:54:SER:HG	18:R:74:ASP:CG	2.05	0.64
25:Y:28:ILE:HD11	25:Y:40:LEU:HD22	1.80	0.64
25:Y:586:TYR:HD2	25:Y:598:LEU:CG	2.02	0.64
26:Z:405:LYS:CD	26:Z:483:GLY:HA3	2.19	0.64
35:i:164:LYS:NZ	35:i:165:LYS:CG	2.42	0.64
36:j:121:MET:HE1	36:j:139:TYR:HB2	1.80	0.64
38:l:54:DG:H2"	38:l:55:DT:OP2	1.97	0.64
39:m:109:DA:H8	39:m:109:DA:OP2	1.79	0.64
2:B:433:GLN:HB2	32:f:326:ARG:NH2	2.12	0.64
24:X:96:GLU:CA	37:k:19:PRO:HA	2.25	0.64
25:Y:29:LYS:HG3	25:Y:61:MET:SD	2.38	0.64
25:Y:185:CYS:SG	25:Y:192:PRO:HG3	2.37	0.64
25:Y:222:VAL:O	25:Y:225:GLU:O	2.16	0.64
25:Y:639:LEU:CD2	25:Y:649:ARG:CG	2.76	0.64
26:Z:415:VAL:HA	26:Z:418:MET:CE	2.27	0.64
33:g:312:TYR:CG	35:i:130:TRP:CZ2	2.85	0.64
34:h:46:LEU:CD1	34:h:132:THR:HG23	2.28	0.64
35:i:181:LEU:C	35:i:181:LEU:HD23	2.23	0.64
1:A:1445:ILE:CG1	7:G:68:ALA:H	2.09	0.64
2:B:350:GLN:CG	32:f:407:ASP:CB	2.74	0.64
25:Y:393:VAL:HG21	25:Y:437:PHE:CD1	2.33	0.64
25:Y:467:ASP:C	25:Y:470:PRO:CD	2.70	0.64
25:Y:468:MET:C	25:Y:470:PRO:HD2	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:469:TYR:O	25:Y:472:MET:O	2.15	0.64
26:Z:415:VAL:HA	26:Z:418:MET:HE2	1.78	0.64
32:f:120:LYS:CE	33:g:72:ARG:CD	2.75	0.64
35:i:193:LEU:HD12	35:i:214:TRP:HH2	1.63	0.64
26:Z:439:THR:HG22	26:Z:440:SER:N	2.10	0.63
26:Z:585:PRO:C	26:Z:756:ARG:HH22	2.05	0.63
26:Z:785:ARG:NH1	39:m:105:DC:C5	2.65	0.63
31:e:21:ASP:O	31:e:25:THR:HG23	1.98	0.63
32:f:118:LEU:HD13	32:f:375:LEU:HD23	1.80	0.63
18:R:134:GLY:O	18:R:166:LYS:NZ	2.24	0.63
18:R:186:SER:O	18:R:187:ASP:HB2	1.96	0.63
20:T:55:LYS:CD	20:T:60:VAL:HG11	2.20	0.63
26:Z:456:THR:HG22	26:Z:457:TYR:N	2.13	0.63
33:g:353:PRO:HG2	35:i:126:SER:OG	1.97	0.63
34:h:44:LYS:HD3	34:h:49:ILE:O	1.97	0.63
1:A:867:ILE:CD1	1:A:1000:LEU:HD11	2.28	0.63
2:B:872:GLU:HG2	2:B:916:THR:HG22	1.78	0.63
12:L:31:CYS:HB3	12:L:35:SER:N	2.13	0.63
16:P:183:GLU:H	19:S:77:ARG:CB	2.11	0.63
17:Q:64:ILE:HD13	17:Q:209:TYR:CE2	2.33	0.63
20:T:108:ASP:O	20:T:112:ARG:HG3	1.97	0.63
20:T:114:ILE:HD12	22:V:147:LEU:CD1	2.27	0.63
25:Y:140:GLN:HG3	25:Y:143:ARG:NH2	2.13	0.63
25:Y:479:LEU:CD2	25:Y:479:LEU:C	2.72	0.63
26:Z:456:THR:HG22	26:Z:457:TYR:H	1.63	0.63
32:f:121:PHE:CD1	32:f:395:PHE:CZ	2.85	0.63
35:i:143:LEU:HD13	35:i:144:VAL:CA	2.27	0.63
35:i:208:LYS:HD2	35:i:208:LYS:H	1.63	0.63
1:A:344:ARG:CZ	2:B:1120:GLU:CG	2.74	0.63
2:B:917:PRO:HA	2:B:934:LYS:HB3	1.80	0.63
16:P:341:TYR:CB	16:P:354:ILE:H	2.12	0.63
18:R:13:THR:HB	18:R:14:PRO:HD2	1.79	0.63
20:T:45:ASP:OD2	20:T:76:THR:HG23	1.99	0.63
20:T:94:TYR:HB2	22:V:111:THR:CG2	2.22	0.63
25:Y:586:TYR:CD2	25:Y:598:LEU:HD12	2.33	0.63
26:Z:455:SER:HB3	26:Z:466:ARG:NH1	2.00	0.63
26:Z:473:VAL:HB	26:Z:481:GLU:HG3	1.81	0.63
32:f:386:MET:HE1	33:g:73:LEU:CD1	2.19	0.63
34:h:46:LEU:CG	34:h:132:THR:HG21	2.29	0.63
35:i:238:ASP:N	35:i:243:TYR:HD1	1.97	0.63
1:A:16:GLU:HB3	1:A:1418:LEU:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:50:GLU:CD	17:Q:50:GLU:H	2.06	0.63
17:Q:52:VAL:HA	17:Q:57:GLN:O	1.98	0.63
25:Y:234:PHE:HZ	25:Y:449:VAL:HG21	1.62	0.63
25:Y:277:VAL:HG12	25:Y:278:ASP:N	2.13	0.63
25:Y:539:VAL:CG1	25:Y:623:ILE:CG1	2.77	0.63
26:Z:400:ALA:HB2	26:Z:450:SER:O	1.99	0.63
26:Z:411:CYS:O	26:Z:456:THR:HA	1.97	0.63
35:i:151:LEU:HD23	35:i:151:LEU:O	1.98	0.63
35:i:236:LYS:HE2	35:i:243:TYR:CD1	2.32	0.63
35:i:236:LYS:CG	35:i:245:TRP:CZ2	2.81	0.63
1:A:22:PHE:N	2:B:1211:ASN:O	2.32	0.63
3:C:10:ILE:HD12	11:K:108:GLU:HB3	1.81	0.63
21:U:74:GLN:NE2	21:U:77:ARG:HH11	1.97	0.63
21:U:175:ILE:HG13	23:W:94:ILE:HG22	1.80	0.63
25:Y:68:LYS:CG	25:Y:228:LYS:CG	2.65	0.63
25:Y:110:SER:HB3	25:Y:212:TYR:CD1	2.34	0.63
25:Y:199:MET:HA	25:Y:199:MET:HE3	1.81	0.63
25:Y:683:ASP:O	25:Y:686:PHE:CE2	2.47	0.63
30:d:249:ASP:OD1	30:d:263:LYS:HE3	1.97	0.63
32:f:118:LEU:CD1	32:f:387:ILE:HB	2.27	0.63
32:f:140:HIS:HB3	33:g:57:LEU:CD2	2.29	0.63
35:i:193:LEU:HD22	35:i:193:LEU:H	1.64	0.63
35:i:226:GLU:HA	35:i:229:LYS:NZ	2.13	0.63
2:B:999:MET:HG3	2:B:1000:PRO:HD2	1.80	0.63
2:B:1221:SER:N	4:D:14:ARG:HH22	1.91	0.63
20:T:64:LYS:HB2	20:T:65:PRO:HD3	1.81	0.63
20:T:91:ASP:CA	22:V:111:THR:HG21	2.18	0.63
20:T:108:ASP:O	20:T:111:THR:HG22	1.99	0.63
22:V:140:LEU:HA	22:V:143:LEU:HD23	1.79	0.63
25:Y:495:MET:HB3	25:Y:686:PHE:CE1	2.34	0.63
33:g:299:ILE:CD1	33:g:328:HIS:HE1	2.11	0.63
34:h:27:LEU:HD22	34:h:129:THR:CB	2.17	0.63
34:h:90:LYS:HB3	34:h:93:HIS:HB3	1.80	0.63
1:A:1433:MET:HE2	2:B:1145:SER:OG	1.97	0.63
2:B:433:GLN:OE1	32:f:326:ARG:NH1	2.32	0.63
18:R:90:ALA:O	18:R:94:ASN:OD1	2.16	0.63
21:U:70:MET:SD	24:X:23:PHE:HE2	2.22	0.63
26:Z:372:LYS:HB3	26:Z:535:LEU:HD23	1.80	0.63
26:Z:476:PHE:HD2	26:Z:477:LEU:CD1	2.11	0.63
33:g:104:ILE:HG21	33:g:122:LEU:HD22	1.80	0.63
36:j:194:ILE:HD11	38:l:18:DA:O3'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:58:DG:N3	38:l:59:DT:N3	2.47	0.63
39:m:106:DA:H2'	39:m:107:DA:C8	2.34	0.63
39:m:150:DC:H2'	39:m:151:DA:C8	2.34	0.63
2:B:806:THR:HG22	2:B:808:ALA:H	1.63	0.63
23:W:83:VAL:HG23	23:W:84:ASP:N	2.13	0.63
25:Y:348:VAL:C	25:Y:380:ARG:NH2	2.49	0.63
26:Z:410:LEU:HD13	26:Z:477:LEU:HD13	1.79	0.63
30:d:3:ASN:ND2	30:d:6:ALA:H	1.97	0.63
33:g:89:GLY:O	33:g:90:GLN:CB	2.47	0.63
33:g:306:LEU:CD1	33:g:313:TRP:CD2	2.82	0.63
1:A:340:LEU:HD13	1:A:1429:ILE:HG23	1.81	0.62
25:Y:653:PHE:CD1	25:Y:654:LEU:N	2.67	0.62
26:Z:409:VAL:HG22	26:Z:486:ILE:HD12	1.80	0.62
26:Z:448:THR:HG22	26:Z:449:GLU:N	2.14	0.62
26:Z:484:PHE:HZ	26:Z:511:LEU:HB2	1.64	0.62
32:f:387:ILE:HG23	32:f:388:PRO:HD2	1.81	0.62
34:h:144:ARG:C	34:h:145:THR:OG1	2.41	0.62
1:A:5:GLN:HG3	2:B:1175:LEU:HD11	1.81	0.62
6:F:92:ARG:NH2	7:G:64:THR:N	2.46	0.62
17:Q:97:LYS:NZ	17:Q:244:SER:CA	2.44	0.62
25:Y:467:ASP:O	25:Y:470:PRO:CG	2.45	0.62
25:Y:494:PRO:CD	25:Y:679:MET:O	2.36	0.62
26:Z:563:ALA:HA	27:a:450:ARG:HE	1.62	0.62
38:l:56:DG:H2''	38:l:57:DT:O5'	1.99	0.62
39:m:124:DA:H4'	39:m:125:DT:OP1	1.99	0.62
1:A:89:PRO:CB	1:A:204:THR:HB	2.29	0.62
16:P:191:ILE:C	16:P:193:THR:H	2.06	0.62
16:P:392:ARG:O	16:P:476:ILE:N	2.32	0.62
17:Q:97:LYS:HZ2	17:Q:244:SER:C	2.06	0.62
25:Y:229:ASP:CB	25:Y:452:ARG:O	2.47	0.62
25:Y:467:ASP:C	25:Y:470:PRO:HG2	2.23	0.62
26:Z:476:PHE:HZ	26:Z:493:VAL:CG1	2.12	0.62
33:g:312:TYR:OH	35:i:152:SER:OG	2.08	0.62
35:i:142:VAL:O	35:i:177:THR:OG1	2.14	0.62
1:A:51:GLY:HA2	1:A:56:PRO:HA	1.81	0.62
1:A:1443:VAL:CB	7:G:61:ILE:CG2	2.77	0.62
16:P:229:LEU:O	16:P:234:GLU:CB	2.46	0.62
22:V:132:GLU:O	22:V:135:ILE:HG22	1.99	0.62
22:V:145:ARG:NH1	22:V:146:LYS:HE3	2.14	0.62
25:Y:518:ILE:HG23	25:Y:522:TYR:CZ	2.32	0.62
26:Z:712:ASP:CB	27:a:447:GLU:CD	2.70	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:376:LEU:HD23	32:f:386:MET:HG2	0.62	0.62
34:h:143:ASP:OD1	34:h:144:ARG:NE	2.33	0.62
35:i:186:VAL:CG1	35:i:189:PRO:HD2	2.25	0.62
38:l:58:DG:H2'	38:l:59:DT:C7	2.29	0.62
1:A:867:ILE:HD11	1:A:1000:LEU:HD11	1.80	0.62
2:B:269:ILE:HD11	2:B:386:LEU:HD21	1.82	0.62
6:F:132:LEU:HD22	7:G:66:GLY:O	2.00	0.62
20:T:61:ASP:O	20:T:62:ARG:HG2	1.99	0.62
25:Y:32:LEU:HD12	25:Y:57:ILE:HD11	1.80	0.62
26:Z:405:LYS:HD3	26:Z:483:GLY:C	2.24	0.62
26:Z:449:GLU:HB2	26:Z:452:LEU:HA	1.81	0.62
26:Z:499:ARG:HG3	26:Z:530:LEU:HD12	1.80	0.62
31:e:87:VAL:CG1	31:e:88:GLU:H	2.08	0.62
33:g:307:PHE:CZ	33:g:349:TYR:CD1	2.82	0.62
34:h:40:GLU:CA	34:h:54:LEU:HD23	2.30	0.62
38:l:59:DT:H2''	38:l:60:DT:H5'	1.79	0.62
1:A:416:ARG:NH2	29:c:40:GLU:HG2	2.13	0.62
1:A:1444:MET:HE1	6:F:135:ARG:HE	1.64	0.62
16:P:218:SER:O	16:P:221:ALA:HB3	1.98	0.62
18:R:32:ARG:HG2	18:R:33:ASP:H	1.65	0.62
20:T:90:TYR:C	22:V:111:THR:HB	2.24	0.62
21:U:132:GLU:HB3	21:U:139:ILE:CD1	2.25	0.62
25:Y:357:LYS:CG	25:Y:376:PHE:HB2	2.29	0.62
25:Y:497:ILE:HG13	25:Y:686:PHE:HZ	1.62	0.62
26:Z:397:ILE:HD11	26:Z:423:GLN:HE21	1.64	0.62
26:Z:491:HIS:O	26:Z:494:PRO:HD2	1.99	0.62
26:Z:680:ARG:NH1	26:Z:683:GLU:OE2	2.32	0.62
33:g:118:HIS:CE1	33:g:120:TYR:CD2	2.81	0.62
33:g:349:TYR:CD1	33:g:349:TYR:C	2.73	0.62
34:h:147:PHE:HB2	34:h:156:LEU:CD2	2.28	0.62
34:h:151:LEU:HD22	34:h:151:LEU:C	2.23	0.62
36:j:76:LEU:HA	36:j:151:LYS:O	2.00	0.62
1:A:1447:GLU:C	7:G:22:MET:SD	2.83	0.62
21:U:172:GLU:O	21:U:176:MET:HG3	1.98	0.62
22:V:112:LYS:HD2	22:V:119:PRO:CG	2.29	0.62
22:V:135:ILE:HD13	22:V:139:VAL:HG23	1.82	0.62
25:Y:28:ILE:HG21	25:Y:57:ILE:CG2	2.24	0.62
25:Y:128:VAL:N	25:Y:376:PHE:CE2	2.67	0.62
26:Z:326:VAL:HG12	26:Z:503:SER:O	1.99	0.62
26:Z:407:VAL:HG22	26:Z:451:GLY:HA2	1.82	0.62
26:Z:436:ALA:CB	26:Z:452:LEU:HD21	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1220:ARG:O	4:D:14:ARG:NH2	2.32	0.62
4:D:176:GLU:OE2	4:D:197:SER:HB2	1.99	0.62
17:Q:83:LYS:HG3	17:Q:84:PRO:HD2	1.80	0.62
18:R:200:LEU:O	18:R:200:LEU:HD22	2.00	0.62
25:Y:346:MET:HB3	25:Y:384:LEU:CD2	2.28	0.62
26:Z:296:VAL:HA	26:Z:309:ASP:HB2	1.81	0.62
26:Z:459:MET:HB2	26:Z:464:ARG:NE	2.14	0.62
34:h:147:PHE:CB	34:h:156:LEU:HD21	2.11	0.62
38:l:58:DG:H4'	38:l:59:DT:O5'	2.00	0.62
2:B:911:ILE:HD11	2:B:941:LEU:HD12	1.82	0.62
11:K:49:GLU:HG3	11:K:94:ILE:HG13	1.81	0.62
20:T:43:TYR:OH	22:V:105:ILE:HG23	2.00	0.62
20:T:55:LYS:HE3	20:T:62:ARG:HH21	1.64	0.62
25:Y:71:TYR:CZ	25:Y:233:ILE:HG21	2.32	0.62
25:Y:352:ILE:HB	25:Y:380:ARG:HH11	1.51	0.62
26:Z:377:GLY:HA2	26:Z:381:SER:HB2	1.82	0.62
26:Z:428:CYS:HB3	26:Z:432:PRO:HB2	1.82	0.62
26:Z:603:ASP:HB3	26:Z:669:CYS:SG	2.40	0.62
33:g:306:LEU:CD1	33:g:313:TRP:CZ3	2.72	0.62
35:i:143:LEU:HD11	35:i:145:ASN:OD1	2.00	0.62
1:A:1130:GLN:HA	1:A:1133:LEU:HD12	1.82	0.62
1:A:1193:LEU:HB2	1:A:1260:LEU:HD21	1.81	0.62
1:A:1436:ILE:O	1:A:1437:GLY:C	2.43	0.62
13:M:126:TRP:O	13:M:137:SER:N	2.32	0.62
13:M:192:ILE:C	16:P:192:GLU:HA	2.24	0.62
16:P:229:LEU:CB	16:P:250:LYS:CB	2.78	0.62
21:U:83:TRP:CD1	21:U:83:TRP:H	2.18	0.62
25:Y:42:MET:HG3	25:Y:50:VAL:CG2	2.30	0.62
26:Z:345:ASN:ND2	26:Z:348:ARG:HE	1.97	0.62
32:f:129:PRO:HD2	32:f:129:PRO:O	1.99	0.62
32:f:376:LEU:HG	33:g:73:LEU:HD21	1.77	0.62
34:h:44:LYS:HE3	34:h:54:LEU:HD22	1.80	0.62
1:A:11:LEU:CD1	2:B:1195:HIS:CD2	2.82	0.61
2:B:843:GLN:HA	2:B:846:ILE:HD12	1.82	0.61
13:M:127:VAL:HA	13:M:136:ASN:HA	1.81	0.61
16:P:629:PRO:HA	16:P:650:SER:HA	1.82	0.61
16:P:631:LEU:HA	16:P:648:LYS:HA	1.82	0.61
20:T:60:VAL:HG22	20:T:61:ASP:N	2.15	0.61
25:Y:58:ALA:HB1	25:Y:69:ILE:HD12	1.81	0.61
25:Y:533:THR:O	25:Y:533:THR:HG22	2.00	0.61
25:Y:678:VAL:HG11	25:Y:708:LEU:CG	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:458:SER:N	26:Z:465:ASN:HB2	2.15	0.61
26:Z:501:VAL:O	26:Z:505:ILE:HG13	2.00	0.61
33:g:308:ASP:O	35:i:133:GLU:CD	2.40	0.61
34:h:32:ILE:HG22	34:h:89:VAL:HG23	1.80	0.61
34:h:35:HIS:CG	34:h:36:SER:H	2.18	0.61
35:i:236:LYS:HE3	35:i:243:TYR:CD2	2.34	0.61
1:A:53:LEU:HD23	1:A:54:ASN:N	2.15	0.61
1:A:1445:ILE:C	7:G:68:ALA:HB2	2.24	0.61
17:Q:5:LEU:HA	17:Q:181:SER:O	1.99	0.61
22:V:117:LYS:HE3	22:V:121:GLU:CB	2.29	0.61
25:Y:523:GLY:O	25:Y:527:VAL:HG23	2.00	0.61
25:Y:641:PHE:O	25:Y:645:ASN:ND2	2.32	0.61
26:Z:476:PHE:HA	26:Z:485:ILE:CG2	2.30	0.61
26:Z:584:ASN:CG	26:Z:586:THR:HG22	2.24	0.61
34:h:31:ALA:HB3	34:h:43:LEU:CD1	2.28	0.61
34:h:49:ILE:HG22	34:h:50:ASN:N	2.15	0.61
38:l:41:DA:H2'	38:l:42:DT:H5''	1.81	0.61
1:A:66:LYS:HE2	1:A:68:GLN:H	1.65	0.61
1:A:195:ASP:N	39:m:117:DG:OP1	2.33	0.61
2:B:868:MET:HE3	29:c:182:ARG:HD2	1.79	0.61
14:N:158:TRP:O	14:N:161:THR:N	2.33	0.61
23:W:70:THR:O	23:W:73:ILE:HG22	2.01	0.61
25:Y:63:TYR:HB3	25:Y:64:PRO:HD3	1.82	0.61
25:Y:167:VAL:CG1	25:Y:195:ILE:HG23	2.30	0.61
25:Y:190:LEU:CD1	25:Y:195:ILE:HD11	2.22	0.61
25:Y:586:TYR:CB	25:Y:598:LEU:HD11	2.30	0.61
26:Z:378:ARG:H	26:Z:381:SER:H	1.45	0.61
26:Z:470:SER:O	26:Z:478:THR:HG23	2.00	0.61
32:f:108:LYS:HZ3	33:g:106:LEU:CD2	2.13	0.61
34:h:151:LEU:HD22	34:h:152:CYS:CB	2.28	0.61
35:i:157:ASP:C	35:i:162:LEU:HD23	2.25	0.61
36:j:190:PHE:HB2	38:l:18:DA:O4'	2.00	0.61
37:k:21:SER:N	37:k:22:PRO:HD2	2.05	0.61
1:A:1445:ILE:CA	7:G:68:ALA:HB2	2.23	0.61
25:Y:124:ARG:HH22	25:Y:381:LEU:HD23	1.54	0.61
25:Y:193:TYR:HH	25:Y:221:ARG:NH2	1.94	0.61
26:Z:752:SER:HB2	26:Z:753:PRO:HD2	1.82	0.61
35:i:164:LYS:HD2	35:i:165:LYS:CG	2.29	0.61
1:A:1445:ILE:HG12	7:G:67:SER:C	2.26	0.61
21:U:24:THR:CA	37:k:24:TYR:CD1	2.82	0.61
25:Y:124:ARG:CG	25:Y:376:PHE:O	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:d:41:ILE:O	30:d:45:LYS:HG2	2.01	0.61
32:f:134:HIS:HB3	32:f:352:MET:CE	2.31	0.61
1:A:399:HIS:HB3	1:A:400:PRO:HD3	1.83	0.61
16:P:425:ILE:O	16:P:429:ILE:N	2.33	0.61
17:Q:97:LYS:NZ	17:Q:244:SER:O	2.33	0.61
21:U:158:ILE:HG21	23:W:12:LEU:HD11	1.81	0.61
21:U:175:ILE:CG1	23:W:94:ILE:HG22	2.29	0.61
22:V:83:LEU:O	22:V:84:SER:HB2	2.01	0.61
25:Y:71:TYR:CD2	25:Y:233:ILE:HD12	2.35	0.61
26:Z:475:ASP:C	26:Z:485:ILE:HG22	2.25	0.61
26:Z:515:ALA:C	26:Z:681:ARG:CD	2.65	0.61
32:f:138:ARG:CZ	33:g:57:LEU:CB	2.77	0.61
32:f:139:LEU:HD11	32:f:350:TRP:NE1	2.14	0.61
34:h:52:THR:CG2	35:i:237:LYS:HB2	2.17	0.61
34:h:143:ASP:OD1	34:h:144:ARG:CD	2.49	0.61
35:i:225:GLU:C	35:i:229:LYS:HZ3	2.08	0.61
1:A:95:PHE:HE1	1:A:1414:ALA:HB2	1.66	0.61
2:B:249:ARG:HH12	2:B:418:LYS:HD2	1.66	0.61
5:E:202:SER:HB3	5:E:205:SER:H	1.66	0.61
20:T:94:TYR:HE2	20:T:98:GLN:NE2	1.99	0.61
20:T:118:LEU:HD12	23:W:130:VAL:C	2.25	0.61
23:W:25:TYR:CZ	23:W:58:THR:HG21	2.36	0.61
25:Y:103:PHE:CZ	25:Y:105:GLY:HA3	2.36	0.61
25:Y:349:LEU:HD12	25:Y:380:ARG:CZ	2.28	0.61
25:Y:420:ILE:C	25:Y:422:PRO:HD2	2.22	0.61
25:Y:586:TYR:CE2	25:Y:598:LEU:CD1	2.83	0.61
25:Y:639:LEU:HD23	25:Y:649:ARG:CD	2.25	0.61
26:Z:466:ARG:C	26:Z:477:LEU:HD23	2.26	0.61
26:Z:484:PHE:CE1	26:Z:486:ILE:HG12	2.36	0.61
34:h:151:LEU:CD2	34:h:152:CYS:N	2.51	0.61
35:i:127:LYS:HD2	35:i:128:LEU:H	1.64	0.61
1:A:448:PRO:O	1:A:449:SER:HB2	2.01	0.61
2:B:486:TYR:HB3	2:B:1096:ARG:CZ	2.31	0.61
2:B:839:MET:HE3	2:B:1010:LEU:HD21	1.83	0.61
16:P:240:SER:CB	37:k:6:THR:CB	2.77	0.61
25:Y:131:GLU:CD	25:Y:134:ARG:NH1	2.52	0.61
25:Y:288:LYS:NZ	25:Y:336:LYS:N	2.49	0.61
30:d:10:TYR:O	30:d:14:VAL:HG13	2.00	0.61
33:g:313:TRP:O	33:g:349:TYR:CD1	2.53	0.61
38:l:26:DG:N2	39:m:141:DT:O2	2.33	0.61
20:T:121:CYS:SG	23:W:130:VAL:HG22	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:V:145:ARG:CG	22:V:149:ARG:NE	2.64	0.61
25:Y:109:THR:HB	25:Y:114:LEU:CD1	2.31	0.61
25:Y:357:LYS:CE	25:Y:376:PHE:HE1	2.08	0.61
26:Z:368:LYS:CE	26:Z:372:LYS:HE2	2.31	0.61
32:f:352:MET:O	32:f:358:TYR:HB3	2.01	0.61
33:g:340:VAL:CG1	33:g:348:LYS:HB2	2.31	0.61
38:l:40:DG:H2'	38:l:41:DA:H8	1.66	0.61
2:B:841:MET:HB3	2:B:846:ILE:HD11	1.81	0.61
13:M:176:SER:CB	19:S:48:LEU:CB	2.79	0.61
21:U:24:THR:HB	37:k:24:TYR:CD1	2.36	0.61
22:V:66:ILE:N	22:V:67:PRO:CD	2.63	0.61
22:V:133:LEU:HD23	22:V:136:LYS:CE	2.31	0.61
25:Y:570:LEU:HD12	25:Y:600:SER:HB2	1.81	0.61
26:Z:424:PHE:HE1	26:Z:450:SER:HB3	1.63	0.61
26:Z:446:PHE:O	26:Z:453:VAL:HG23	2.00	0.61
34:h:149:CYS:SG	34:h:151:LEU:CD1	2.89	0.61
35:i:184:TYR:HE2	35:i:186:VAL:HB	1.66	0.61
35:i:205:ILE:HG23	35:i:205:ILE:O	2.01	0.61
35:i:225:GLU:C	35:i:229:LYS:NZ	2.59	0.61
1:A:132:LYS:NZ	1:A:1415:SER:CB	2.64	0.60
1:A:326:ARG:HG3	1:A:1406:VAL:HG21	1.83	0.60
1:A:380:VAL:HG13	1:A:385:ILE:HG12	1.83	0.60
1:A:417:TYR:HE2	29:c:37:ARG:HG3	1.64	0.60
20:T:126:LYS:HZ2	23:W:133:ILE:HG22	1.66	0.60
24:X:21:THR:HG22	24:X:23:PHE:H	1.66	0.60
25:Y:232:VAL:HG22	25:Y:453:PHE:CE2	2.33	0.60
25:Y:532:ILE:HD12	25:Y:705:ASP:CB	2.20	0.60
36:j:194:ILE:CD1	38:l:19:DT:O5'	2.43	0.60
1:A:195:ASP:CB	39:m:117:DG:OP1	2.45	0.60
1:A:1428:VAL:HG13	2:B:1151:LEU:HD21	1.83	0.60
6:F:92:ARG:HE	7:G:63:PRO:C	2.06	0.60
20:T:39:LYS:CG	20:T:43:TYR:HE1	2.14	0.60
20:T:106:GLU:O	20:T:109:SER:HB3	2.00	0.60
20:T:117:ILE:HD11	22:V:147:LEU:CD1	2.31	0.60
25:Y:171:LEU:HD11	25:Y:195:ILE:HG22	1.83	0.60
25:Y:190:LEU:HB2	25:Y:195:ILE:HD11	1.83	0.60
25:Y:493:LEU:CB	25:Y:696:TRP:CD1	2.84	0.60
26:Z:356:LEU:HD21	26:Z:448:THR:HB	1.83	0.60
26:Z:375:GLY:HA3	26:Z:380:ARG:HG2	1.82	0.60
26:Z:485:ILE:HD13	26:Z:505:ILE:CD1	2.30	0.60
26:Z:487:LEU:HD13	26:Z:511:LEU:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:144:ARG:HA	34:h:144:ARG:HH11	1.62	0.60
1:A:1445:ILE:HG13	7:G:67:SER:C	2.23	0.60
2:B:350:GLN:HG2	32:f:407:ASP:HB3	1.82	0.60
16:P:408:GLU:CB	16:P:498:ASP:N	2.63	0.60
17:Q:98:ILE:HD11	17:Q:218:ILE:HD11	1.83	0.60
20:T:80:LEU:HD21	22:V:73:LEU:HD11	1.83	0.60
22:V:122:TRP:O	22:V:125:ILE:HG22	2.01	0.60
25:Y:71:TYR:HD2	25:Y:233:ILE:HD12	1.66	0.60
26:Z:478:THR:HG22	26:Z:479:GLY:N	2.16	0.60
32:f:111:LEU:HD23	33:g:90:GLN:HG3	1.84	0.60
32:f:350:TRP:HZ3	33:g:59:LEU:HD22	0.83	0.60
1:A:195:ASP:OD2	39:m:118:DA:OP2	1.94	0.60
2:B:1221:SER:CB	4:D:14:ARG:CZ	2.80	0.60
16:P:469:LEU:O	16:P:472:GLU:HA	2.02	0.60
22:V:132:GLU:C	22:V:136:LYS:HE2	2.25	0.60
25:Y:111:ARG:HD3	25:Y:129:VAL:HG21	1.83	0.60
25:Y:176:PHE:N	25:Y:176:PHE:CD1	2.68	0.60
25:Y:253:THR:CA	25:Y:434:ILE:HG23	2.31	0.60
26:Z:474:MET:HE3	26:Z:482:TRP:O	2.00	0.60
34:h:40:GLU:HA	34:h:54:LEU:CD2	2.31	0.60
3:C:67:LEU:HA	3:C:70:ILE:HD12	1.82	0.60
22:V:112:LYS:CG	22:V:119:PRO:HD3	2.17	0.60
22:V:134:GLN:O	22:V:137:ARG:HG3	2.01	0.60
26:Z:370:LEU:HD11	26:Z:398:THR:HG21	1.83	0.60
26:Z:561:MET:CA	27:a:450:ARG:NH2	2.63	0.60
30:d:20:GLU:HB2	31:e:43:THR:HG21	1.82	0.60
32:f:404:LEU:CB	32:f:412:ARG:NH2	2.61	0.60
33:g:56:SER:O	33:g:57:LEU:CB	2.50	0.60
33:g:73:LEU:HD23	33:g:73:LEU:H	1.66	0.60
35:i:171:PHE:N	35:i:171:PHE:HD1	1.95	0.60
35:i:236:LYS:CB	35:i:245:TRP:CH2	2.84	0.60
36:j:75:THR:O	36:j:153:THR:HB	2.00	0.60
36:j:118:SER:HB3	38:l:24:DT:C5'	2.31	0.60
36:j:205:LEU:HB2	36:j:213:VAL:HB	1.83	0.60
38:l:40:DG:C2	39:m:127:DG:N2	2.70	0.60
1:A:839:ARG:NH2	1:A:1401:SER:O	2.35	0.60
1:A:1450:LEU:C	7:G:18:PHE:C	2.66	0.60
16:P:408:GLU:CB	16:P:497:ASN:CB	2.79	0.60
25:Y:566:HIS:O	25:Y:567:LYS:CG	2.49	0.60
26:Z:753:PRO:HD2	26:Z:754:ARG:H	1.67	0.60
32:f:119:LEU:CD2	32:f:391:LYS:CB	2.77	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:404:LEU:CD2	32:f:412:ARG:HH12	1.90	0.60
33:g:312:TYR:CE2	35:i:151:LEU:HD23	2.37	0.60
33:g:353:PRO:HG3	35:i:126:SER:HB3	1.83	0.60
34:h:27:LEU:CG	34:h:128:LEU:O	2.49	0.60
35:i:160:ILE:C	35:i:160:ILE:CD1	2.73	0.60
1:A:419:LYS:NZ	29:c:48:CYS:CB	2.52	0.60
2:B:110:HIS:CE1	12:L:54:ARG:HH12	2.20	0.60
2:B:205:ILE:HD11	2:B:461:LEU:HD13	1.82	0.60
18:R:40:ARG:HD3	18:R:118:GLN:NE2	2.17	0.60
21:U:169:GLN:HG2	23:W:5:LEU:HB3	1.84	0.60
22:V:86:GLN:HG2	22:V:90:LEU:HD13	1.84	0.60
22:V:140:LEU:HA	22:V:143:LEU:CD2	2.30	0.60
25:Y:358:SER:O	25:Y:362:HIS:CD2	2.54	0.60
25:Y:386:ARG:O	25:Y:390:VAL:CG2	2.40	0.60
26:Z:356:LEU:CD2	26:Z:448:THR:HG21	2.32	0.60
26:Z:484:PHE:CD2	26:Z:509:ALA:HB3	2.36	0.60
33:g:350:THR:OG1	35:i:130:TRP:CZ3	2.55	0.60
1:A:946:VAL:HG22	5:E:201:LYS:HD2	1.83	0.60
1:A:1111:MET:HG3	1:A:1114:PRO:HG3	1.83	0.60
17:Q:16:TYR:CE2	17:Q:87:PHE:HA	2.37	0.60
18:R:4:SER:HB2	18:R:200:LEU:CG	2.31	0.60
22:V:76:ILE:CD1	22:V:97:ARG:HD2	2.32	0.60
33:g:59:LEU:HD21	33:g:214:ILE:HD11	1.82	0.60
33:g:299:ILE:HD12	33:g:328:HIS:HE1	1.65	0.60
33:g:349:TYR:O	33:g:349:TYR:HD1	1.83	0.60
35:i:161:GLU:HB3	35:i:162:LEU:HD22	1.83	0.60
1:A:72:GLU:HB3	1:A:76:GLU:HB3	1.83	0.60
1:A:1454:MET:HG2	7:G:20:PRO:HD3	1.82	0.60
2:B:976:ILE:O	2:B:990:ILE:HB	2.02	0.60
20:T:100:ILE:HG13	20:T:101:ASP:N	2.17	0.60
22:V:100:LEU:C	22:V:100:LEU:HD13	2.26	0.60
25:Y:200:ILE:CA	25:Y:226:VAL:HG23	2.16	0.60
25:Y:467:ASP:CA	25:Y:470:PRO:CG	2.79	0.60
1:A:68:GLN:O	1:A:70:CYS:N	2.31	0.60
1:A:1387:HIS:O	1:A:1391:ARG:HG2	2.02	0.60
2:B:902:GLY:O	12:L:65:VAL:HG12	2.01	0.60
16:P:478:LEU:CB	16:P:483:ASP:HA	2.31	0.60
21:U:158:ILE:HG21	23:W:12:LEU:CD1	2.32	0.60
22:V:114:LEU:HD12	22:V:114:LEU:N	2.17	0.60
22:V:122:TRP:CH2	22:V:123:GLN:HG3	2.37	0.60
22:V:143:LEU:HD12	22:V:143:LEU:C	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:237:ALA:HA	25:Y:240:ILE:HG12	1.83	0.60
25:Y:242:ASN:HD21	25:Y:660:ARG:HH22	1.49	0.60
25:Y:263:GLY:O	25:Y:267:LEU:HG	2.02	0.60
25:Y:586:TYR:CE2	25:Y:598:LEU:HG	2.37	0.60
26:Z:356:LEU:HD22	26:Z:356:LEU:N	2.16	0.60
32:f:348:TYR:HE2	32:f:393:TYR:OH	1.83	0.60
35:i:143:LEU:HD12	35:i:145:ASN:N	2.12	0.60
38:l:66:DT:H2''	38:l:67:DA:OP2	2.02	0.60
1:A:372:LYS:HA	1:A:435:HIS:CD2	2.36	0.59
1:A:629:LEU:O	1:A:633:VAL:HG23	2.02	0.59
1:A:1390:ASN:O	1:A:1399:ARG:HG2	2.01	0.59
6:F:96:THR:OG1	7:G:64:THR:HA	2.02	0.59
17:Q:55:ARG:O	17:Q:57:GLN:HG3	2.02	0.59
21:U:73:ASN:HD22	21:U:75:GLN:NE2	2.00	0.59
22:V:107:GLU:HG3	22:V:107:GLU:O	2.01	0.59
25:Y:28:ILE:CG2	25:Y:57:ILE:HD12	2.27	0.59
25:Y:185:CYS:SG	25:Y:190:LEU:CD1	2.90	0.59
25:Y:330:HIS:O	25:Y:334:PHE:HD1	1.84	0.59
25:Y:466:LEU:HG	25:Y:479:LEU:CB	2.32	0.59
26:Z:372:LYS:C	26:Z:535:LEU:HD23	2.26	0.59
26:Z:698:ASP:O	26:Z:699:GLU:CG	2.47	0.59
29:c:197:HIS:H	29:c:198:VAL:HA	1.67	0.59
32:f:127:ILE:HG22	32:f:127:ILE:O	2.02	0.59
32:f:139:LEU:HB2	32:f:350:TRP:CE3	2.35	0.59
35:i:236:LYS:HE3	35:i:243:TYR:HB2	1.83	0.59
1:A:49:LYS:HZ1	1:A:61:ILE:H	1.50	0.59
3:C:11:ARG:HH21	3:C:229:TYR:HD2	1.48	0.59
22:V:112:LYS:HZ3	22:V:119:PRO:HG3	1.66	0.59
25:Y:639:LEU:CD1	25:Y:653:PHE:HZ	2.12	0.59
26:Z:424:PHE:O	26:Z:427:TRP:HE3	1.84	0.59
33:g:308:ASP:O	35:i:133:GLU:HG3	2.00	0.59
35:i:133:GLU:HG3	35:i:137:LYS:HE2	1.82	0.59
35:i:236:LYS:HE3	35:i:243:TYR:CB	2.33	0.59
36:j:183:SER:HB2	36:j:193:LEU:HD21	1.84	0.59
38:l:57:DT:C2'	38:l:58:DG:C8	2.84	0.59
1:A:89:PRO:HB2	1:A:204:THR:HG21	1.83	0.59
2:B:104:GLU:OE2	12:L:54:ARG:CD	2.50	0.59
3:C:184:ASN:HD21	3:C:189:THR:H	1.50	0.59
6:F:92:ARG:CZ	7:G:64:THR:N	2.65	0.59
6:F:96:THR:CG2	7:G:66:GLY:HA2	2.33	0.59
9:I:17:ARG:HG2	40:n:20:GLU:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:43:THR:HG22	12:L:43:THR:O	2.03	0.59
17:Q:97:LYS:HG2	17:Q:243:ASN:HD22	1.67	0.59
21:U:25:GLN:N	37:k:24:TYR:CD2	2.69	0.59
24:X:96:GLU:CB	37:k:18:SER:C	2.58	0.59
25:Y:518:ILE:HG22	25:Y:522:TYR:CD2	2.22	0.59
26:Z:373:MET:HE2	26:Z:384:ILE:CD1	2.32	0.59
26:Z:373:MET:CA	26:Z:381:SER:HA	2.32	0.59
32:f:102:PRO:HD2	33:g:99:LYS:H	1.66	0.59
32:f:120:LYS:HZ1	33:g:72:ARG:HG3	1.65	0.59
32:f:140:HIS:CD2	32:f:349:PRO:HG2	2.37	0.59
32:f:377:SER:CA	33:g:70:LEU:HD22	2.33	0.59
34:h:90:LYS:O	34:h:93:HIS:HB3	2.01	0.59
1:A:368:LYS:HE2	1:A:399:HIS:CB	2.18	0.59
1:A:871:ASP:OD1	1:A:1366:ARG:NH2	2.34	0.59
13:M:135:ASN:HA	13:M:156:ILE:HA	1.85	0.59
13:M:188:LEU:C	13:M:190:ASP:H	2.10	0.59
17:Q:167:GLN:NE2	18:R:96:SER:O	2.36	0.59
25:Y:218:ILE:HD11	25:Y:221:ARG:HH21	1.68	0.59
25:Y:293:LEU:HD12	25:Y:433:PRO:HB2	1.83	0.59
25:Y:327:ARG:HB2	25:Y:330:HIS:HD1	1.65	0.59
32:f:141:ARG:NH2	32:f:348:TYR:CZ	2.70	0.59
32:f:365:TYR:CE1	32:f:391:LYS:CD	2.85	0.59
34:h:46:LEU:C	34:h:46:LEU:HD13	2.26	0.59
1:A:1436:ILE:HD11	2:B:1144:ALA:CB	2.32	0.59
1:A:1447:GLU:CD	7:G:70:PHE:CE2	2.79	0.59
17:Q:97:LYS:CE	17:Q:243:ASN:C	2.76	0.59
17:Q:108:ILE:O	17:Q:109:LEU:HB3	2.02	0.59
20:T:39:LYS:NZ	22:V:115:LEU:HA	2.16	0.59
20:T:111:THR:HG23	20:T:112:ARG:N	2.17	0.59
21:U:171:ARG:HD2	23:W:90:GLN:OE1	2.03	0.59
25:Y:42:MET:CG	25:Y:50:VAL:CG2	2.72	0.59
25:Y:253:THR:HG21	25:Y:434:ILE:HD13	1.82	0.59
26:Z:352:LEU:HD22	26:Z:352:LEU:H	1.67	0.59
26:Z:385:VAL:HA	26:Z:514:THR:O	2.03	0.59
26:Z:475:ASP:CB	26:Z:478:THR:H	2.15	0.59
32:f:114:MET:HE2	32:f:387:ILE:HD11	1.83	0.59
34:h:62:ARG:N	34:h:67:ILE:HD11	2.17	0.59
36:j:77:GLY:O	36:j:78:CYS:HB3	2.01	0.59
12:L:60:ARG:HG2	12:L:61:THR:H	1.67	0.59
16:P:471:ASN:O	16:P:472:GLU:C	2.46	0.59
25:Y:124:ARG:CG	25:Y:377:CYS:HA	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:370:LEU:CD1	26:Z:398:THR:HG21	2.32	0.59
26:Z:425:LEU:HA	26:Z:429:THR:HA	1.83	0.59
33:g:312:TYR:CD2	35:i:150:TYR:O	2.54	0.59
36:j:98:ARG:CZ	39:m:142:DA:H5''	2.32	0.59
36:j:120:LYS:HB2	38:l:23:DA:C2'	2.18	0.59
38:l:58:DG:C4	38:l:59:DT:C4	2.90	0.59
3:C:47:ASP:HA	12:L:69:ALA:CB	2.33	0.59
17:Q:97:LYS:CB	17:Q:243:ASN:HB2	2.32	0.59
18:R:47:LYS:HD2	18:R:48:ASN:N	2.18	0.59
23:W:100:LYS:O	23:W:104:VAL:HG23	2.03	0.59
25:Y:293:LEU:CD1	25:Y:433:PRO:CA	2.81	0.59
26:Z:347:HIS:HD2	26:Z:348:ARG:HG3	1.67	0.59
26:Z:394:LEU:N	26:Z:394:LEU:HD12	2.17	0.59
26:Z:410:LEU:CB	26:Z:466:ARG:HH22	2.07	0.59
33:g:306:LEU:HG	33:g:313:TRP:CD1	2.38	0.59
1:A:418:SER:HA	29:c:49:GLY:CA	2.32	0.59
5:E:147:HIS:HB3	5:E:150:VAL:HG23	1.84	0.59
6:F:133:VAL:O	7:G:61:ILE:HB	2.03	0.59
17:Q:228:LEU:HD21	17:Q:278:LEU:HD22	1.83	0.59
22:V:83:LEU:HD12	22:V:83:LEU:N	2.18	0.59
25:Y:193:TYR:CE2	25:Y:197:ARG:HD3	2.35	0.59
25:Y:353:SER:HB2	25:Y:381:LEU:CA	2.24	0.59
26:Z:376:ASN:HB3	26:Z:380:ARG:N	2.12	0.59
26:Z:386:LEU:HB3	26:Z:390:ALA:CB	2.32	0.59
26:Z:427:TRP:HB2	26:Z:449:GLU:OE2	2.01	0.59
32:f:110:ASP:OD2	33:g:92:LEU:HD23	1.93	0.59
32:f:140:HIS:CE1	32:f:349:PRO:HG2	2.37	0.59
12:L:36:SER:O	12:L:37:LYS:C	2.44	0.59
13:M:11:TRP:CB	13:M:32:ALA:HA	2.32	0.59
13:M:126:TRP:N	13:M:137:SER:O	2.33	0.59
16:P:543:ARG:C	16:P:545:ILE:H	2.10	0.59
18:R:49:LEU:HD11	18:R:53:VAL:HB	1.84	0.59
22:V:122:TRP:CZ3	22:V:123:GLN:HG3	2.37	0.59
25:Y:135:ARG:NH2	25:Y:143:ARG:HH21	2.00	0.59
25:Y:269:GLU:HG2	25:Y:269:GLU:O	2.02	0.59
25:Y:352:ILE:HG12	25:Y:380:ARG:NH2	2.18	0.59
25:Y:493:LEU:HD21	25:Y:666:LEU:CG	2.29	0.59
26:Z:354:ILE:O	26:Z:356:LEU:HD22	2.03	0.59
26:Z:397:ILE:HG12	26:Z:427:TRP:HH2	1.67	0.59
26:Z:561:MET:CA	27:a:450:ARG:HH22	2.06	0.59
32:f:358:TYR:CE2	32:f:359:ASN:HB2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:g:312:TYR:HD2	35:i:150:TYR:O	1.84	0.59
34:h:34:PHE:HZ	34:h:134:LEU:C	2.06	0.59
34:h:130:LYS:NZ	34:h:130:LYS:HA	2.15	0.59
35:i:156:ASP:HA	35:i:159:VAL:CG1	2.33	0.59
36:j:118:SER:CB	38:l:24:DT:C5'	2.81	0.59
39:m:105:DC:H2''	39:m:106:DA:C5'	2.33	0.59
1:A:22:PHE:CB	2:B:1211:ASN:OD1	2.50	0.59
1:A:344:ARG:CD	2:B:1118:PRO:O	2.47	0.59
1:A:412:ARG:HB3	29:c:51:VAL:HG11	1.83	0.59
8:H:47:PHE:HB3	8:H:95:TYR:CD2	2.38	0.59
25:Y:124:ARG:HG2	25:Y:377:CYS:CB	2.33	0.59
25:Y:232:VAL:O	25:Y:457:ILE:HB	2.02	0.59
25:Y:353:SER:HB2	25:Y:381:LEU:N	2.17	0.59
25:Y:567:LYS:HG2	25:Y:597:ILE:CG2	2.33	0.59
25:Y:571:VAL:CG1	25:Y:572:GLU:HG3	2.33	0.59
25:Y:586:TYR:CE1	25:Y:616:TYR:CZ	2.91	0.59
25:Y:639:LEU:CD2	25:Y:649:ARG:CB	2.78	0.59
26:Z:327:LYS:HG3	26:Z:506:ALA:CA	2.33	0.59
26:Z:408:ILE:CG2	26:Z:475:ASP:HA	2.33	0.59
32:f:374:VAL:CG2	32:f:386:MET:CE	2.75	0.59
33:g:350:THR:CB	35:i:130:TRP:CZ3	2.84	0.59
34:h:120:ASN:OD1	34:h:133:GLN:CB	2.51	0.59
35:i:158:LYS:HZ2	35:i:162:LEU:CD1	2.15	0.59
35:i:183:THR:HB	35:i:222:ASN:HA	1.84	0.59
36:j:100:ALA:CB	39:m:142:DA:C2	2.86	0.59
1:A:419:LYS:HE3	29:c:48:CYS:N	2.17	0.58
1:A:483:ASP:HB2	2:B:987:LYS:HE3	1.84	0.58
22:V:125:ILE:O	22:V:129:ARG:HG2	2.02	0.58
25:Y:289:LEU:HD21	25:Y:435:MET:SD	2.38	0.58
25:Y:586:TYR:CG	25:Y:598:LEU:CD1	2.69	0.58
25:Y:639:LEU:HD21	25:Y:649:ARG:HD2	0.61	0.58
26:Z:505:ILE:HD12	26:Z:510:LYS:NZ	2.18	0.58
32:f:140:HIS:CG	32:f:349:PRO:HG2	2.38	0.58
32:f:342:LEU:HB2	32:f:345:GLU:CG	2.33	0.58
33:g:63:ARG:HB2	33:g:215:VAL:HA	1.76	0.58
34:h:33:LEU:HD21	34:h:89:VAL:HG11	1.83	0.58
35:i:159:VAL:HG22	35:i:160:ILE:CG2	2.28	0.58
38:l:32:DG:H2'	38:l:33:DA:C8	2.38	0.58
2:B:868:MET:HE3	29:c:182:ARG:NE	2.18	0.58
6:F:97:ARG:HH12	7:G:15:PRO:HB2	1.68	0.58
17:Q:81:MET:CE	17:Q:92:SER:HB2	1.98	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:47:LYS:NZ	18:R:47:LYS:H	2.00	0.58
25:Y:383:LEU:C	25:Y:383:LEU:HD23	2.28	0.58
25:Y:499:LYS:C	25:Y:522:TYR:CE1	2.81	0.58
32:f:114:MET:CE	32:f:387:ILE:CD1	2.80	0.58
35:i:158:LYS:HD3	35:i:162:LEU:HG	1.85	0.58
1:A:857:ARG:HD3	1:A:861:GLY:O	2.03	0.58
2:B:846:ILE:CG2	2:B:974:PRO:HD2	2.32	0.58
2:B:950:ASP:HB3	2:B:967:ARG:HG2	1.84	0.58
5:E:4:GLU:HB3	5:E:7:ARG:NE	2.16	0.58
18:R:135:LEU:HD22	18:R:166:LYS:HB3	1.85	0.58
24:X:53:ASN:N	37:k:24:TYR:OH	2.35	0.58
25:Y:124:ARG:HB2	25:Y:377:CYS:SG	2.43	0.58
25:Y:495:MET:CB	25:Y:686:PHE:CD2	2.75	0.58
26:Z:408:ILE:HG23	26:Z:408:ILE:O	2.03	0.58
26:Z:476:PHE:HD2	26:Z:477:LEU:HD12	1.67	0.58
32:f:139:LEU:CG	32:f:350:TRP:CH2	2.84	0.58
32:f:404:LEU:HD22	32:f:412:ARG:HH11	1.61	0.58
35:i:125:SER:C	35:i:127:LYS:HZ2	2.11	0.58
38:l:58:DG:H1'	38:l:59:DT:C5'	2.27	0.58
1:A:590:ARG:NH2	1:A:621:THR:OG1	2.36	0.58
17:Q:108:ILE:HD13	17:Q:159:GLU:CD	2.28	0.58
18:R:4:SER:OG	18:R:200:LEU:CB	2.51	0.58
22:V:112:LYS:HA	22:V:117:LYS:O	2.02	0.58
22:V:113:ASP:O	22:V:114:LEU:HB2	2.03	0.58
25:Y:110:SER:HB3	25:Y:212:TYR:CE1	2.38	0.58
25:Y:244:CYS:HB3	25:Y:442:ALA:CB	2.22	0.58
25:Y:337:ARG:CZ	25:Y:345:ARG:NE	2.57	0.58
25:Y:353:SER:N	25:Y:380:ARG:NH1	2.45	0.58
26:Z:521:ASP:CG	26:Z:523:LYS:HG2	2.28	0.58
34:h:44:LYS:HD2	34:h:50:ASN:O	2.04	0.58
38:l:52:DA:H2''	38:l:53:DT:OP2	2.01	0.58
39:m:107:DA:C2'	39:m:108:DC:C5	2.86	0.58
2:B:65:GLU:OE1	2:B:247:GLY:HA2	2.04	0.58
20:T:114:ILE:O	20:T:117:ILE:HG12	2.02	0.58
22:V:146:LYS:HD3	23:W:129:PHE:HE1	1.52	0.58
25:Y:458:ILE:HD13	25:Y:469:TYR:CE2	2.38	0.58
25:Y:570:LEU:HD11	25:Y:606:VAL:HG21	1.85	0.58
26:Z:400:ALA:HB3	26:Z:450:SER:HA	1.86	0.58
32:f:103:LEU:HD11	33:g:96:ARG:NH2	2.18	0.58
32:f:375:LEU:HD21	33:g:70:LEU:CD1	2.32	0.58
34:h:144:ARG:CB	34:h:146:GLU:CD	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:110:HIS:NE2	12:L:54:ARG:NH2	2.52	0.58
2:B:363:HIS:O	2:B:364:ILE:HB	2.02	0.58
20:T:55:LYS:HE3	20:T:62:ARG:HE	1.68	0.58
25:Y:87:GLU:O	25:Y:90:MET:HB3	2.04	0.58
25:Y:353:SER:OG	25:Y:381:LEU:HB2	2.03	0.58
25:Y:469:TYR:N	25:Y:470:PRO:CD	2.66	0.58
26:Z:477:LEU:O	26:Z:501:VAL:HA	2.04	0.58
33:g:83:ASP:CG	33:g:92:LEU:HD22	2.28	0.58
33:g:299:ILE:CD1	33:g:324:GLN:OE1	2.48	0.58
34:h:44:LYS:HE3	34:h:54:LEU:HB2	1.85	0.58
7:G:18:PHE:HA	7:G:22:MET:HE3	1.85	0.58
21:U:168:HIS:CE1	23:W:82:GLY:O	2.55	0.58
23:W:74:ASN:O	23:W:77:ILE:N	2.36	0.58
25:Y:203:CYS:SG	25:Y:226:VAL:CG2	2.91	0.58
25:Y:499:LYS:HZ1	25:Y:525:MET:HB2	1.65	0.58
25:Y:541:PHE:HE1	25:Y:599:LEU:HD22	1.68	0.58
34:h:27:LEU:CD2	34:h:128:LEU:O	2.47	0.58
34:h:29:LEU:CD1	34:h:66:LEU:HB3	2.33	0.58
34:h:61:LEU:HB3	34:h:66:LEU:HB2	1.86	0.58
1:A:836:TYR:CE1	1:A:1403:GLU:OE2	2.57	0.58
2:B:653:VAL:HG22	2:B:689:LEU:HB3	1.84	0.58
16:P:363:SER:HA	16:P:423:LYS:H	1.69	0.58
17:Q:85:LEU:HD12	17:Q:88:ARG:CB	2.29	0.58
25:Y:42:MET:SD	25:Y:50:VAL:HA	2.44	0.58
25:Y:190:LEU:CD1	25:Y:195:ILE:HD12	2.20	0.58
25:Y:336:LYS:HG3	25:Y:336:LYS:O	2.03	0.58
25:Y:447:LYS:N	25:Y:448:PRO:CD	2.67	0.58
25:Y:450:PHE:CZ	25:Y:475:PHE:HA	2.25	0.58
26:Z:326:VAL:HG12	26:Z:327:LYS:N	2.18	0.58
34:h:64:ASP:HB2	34:h:66:LEU:CD2	2.34	0.58
1:A:566:ILE:HD11	8:H:98:TYR:HB2	1.85	0.58
20:T:39:LYS:O	20:T:43:TYR:HD1	1.87	0.58
25:Y:57:ILE:HD13	25:Y:57:ILE:C	2.28	0.58
25:Y:62:HIS:CD2	25:Y:69:ILE:HD11	2.39	0.58
25:Y:492:PHE:CD2	25:Y:494:PRO:HG3	2.39	0.58
25:Y:639:LEU:HD11	25:Y:653:PHE:CZ	2.35	0.58
25:Y:653:PHE:CD1	25:Y:653:PHE:C	2.78	0.58
26:Z:373:MET:HG3	26:Z:381:SER:OG	2.04	0.58
26:Z:378:ARG:N	26:Z:381:SER:HB3	2.18	0.58
26:Z:436:ALA:HB3	26:Z:452:LEU:CD2	2.34	0.58
26:Z:561:MET:H	27:a:450:ARG:HH12	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:d:283:ALA:HA	31:e:64:GLY:O	2.03	0.58
34:h:13:LEU:HD22	34:h:13:LEU:N	2.19	0.58
34:h:14:LYS:HB3	34:h:151:LEU:HB2	1.86	0.58
39:m:136:DA:H2'	39:m:137:DT:C6	2.39	0.58
1:A:588:LEU:HD23	1:A:607:ILE:HD12	1.85	0.58
1:A:1443:VAL:H	7:G:63:PRO:HG3	0.76	0.58
6:F:106:PRO:HG2	7:G:16:SER:O	1.87	0.58
12:L:27:LEU:O	12:L:28:LYS:HG2	2.03	0.58
16:P:315:SER:HA	16:P:426:ARG:CB	2.34	0.58
20:T:79:ALA:O	20:T:82:GLU:HG2	2.03	0.58
21:U:26:SER:OG	37:k:25:SER:HB3	2.04	0.58
21:U:73:ASN:HB2	21:U:75:GLN:CG	2.33	0.58
22:V:112:LYS:O	22:V:113:ASP:HB3	2.03	0.58
26:Z:333:ILE:HD11	26:Z:343:PHE:CZ	2.39	0.58
26:Z:336:PRO:HB3	26:Z:341:TYR:HB3	1.85	0.58
26:Z:352:LEU:HD22	26:Z:352:LEU:N	2.18	0.58
26:Z:757:ARG:O	26:Z:761:GLN:HG2	2.03	0.58
35:i:218:ASP:HB2	35:i:223:GLN:NE2	2.19	0.58
35:i:231:LEU:HD23	35:i:232:VAL:CG1	2.32	0.58
20:T:121:CYS:SG	23:W:130:VAL:HG13	2.43	0.57
21:U:159:HIS:O	21:U:163:ASN:HB2	2.04	0.57
22:V:112:LYS:NZ	22:V:119:PRO:HG3	2.19	0.57
25:Y:586:TYR:CE2	25:Y:598:LEU:HD12	2.39	0.57
26:Z:303:ARG:HD3	26:Z:504:THR:HG22	1.86	0.57
31:e:46:LYS:O	31:e:50:GLU:HG3	2.03	0.57
32:f:121:PHE:HE1	32:f:395:PHE:CZ	2.21	0.57
33:g:63:ARG:HG3	33:g:215:VAL:CG1	2.34	0.57
35:i:126:SER:H	35:i:127:LYS:HZ1	1.51	0.57
35:i:164:LYS:CD	35:i:165:LYS:HG3	2.34	0.57
36:j:114:LEU:CD1	39:m:143:DT:O2	2.52	0.57
39:m:124:DA:H1'	39:m:125:DT:O4'	2.04	0.57
12:L:53:HIS:O	12:L:55:ILE:HG12	2.04	0.57
16:P:593:ASP:CB	16:P:600:ASN:CB	2.82	0.57
17:Q:106:ARG:CZ	17:Q:214:GLN:OE1	2.49	0.57
20:T:63:PHE:N	20:T:66:ASN:HD21	2.02	0.57
22:V:135:ILE:HD13	22:V:135:ILE:O	2.04	0.57
25:Y:21:GLN:HA	25:Y:53:LEU:HD21	1.85	0.57
25:Y:167:VAL:HG11	25:Y:195:ILE:HG23	1.86	0.57
25:Y:418:LEU:HD22	25:Y:633:ARG:HG3	1.84	0.57
25:Y:499:LYS:HZ3	25:Y:525:MET:HB2	1.68	0.57
25:Y:632:SER:OG	25:Y:635:LEU:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:328:LYS:HD3	26:Z:530:LEU:HD23	1.84	0.57
26:Z:476:PHE:CZ	26:Z:502:VAL:HG22	2.40	0.57
32:f:333:LYS:NZ	39:m:130:DC:O3'	2.24	0.57
38:l:55:DT:H1'	38:l:56:DG:H5'	1.86	0.57
17:Q:97:LYS:CG	17:Q:243:ASN:HD22	2.16	0.57
18:R:43:ARG:HH22	18:R:117:MET:HE1	1.59	0.57
18:R:199:ASP:O	18:R:202:TYR:HB3	2.03	0.57
20:T:107:LEU:N	20:T:107:LEU:HD23	2.19	0.57
25:Y:18:TYR:CB	25:Y:19:PRO:CD	2.82	0.57
25:Y:37:ASN:HB2	25:Y:456:VAL:CG1	2.32	0.57
25:Y:167:VAL:HG11	25:Y:195:ILE:CG2	2.33	0.57
32:f:119:LEU:CD2	32:f:391:LYS:CA	2.80	0.57
34:h:46:LEU:HD13	34:h:46:LEU:O	2.04	0.57
34:h:147:PHE:CB	34:h:156:LEU:HD11	2.34	0.57
35:i:184:TYR:CB	35:i:222:ASN:HD21	2.04	0.57
35:i:238:ASP:CA	35:i:243:TYR:HD1	2.17	0.57
39:m:106:DA:H2''	39:m:107:DA:O5'	2.03	0.57
1:A:1390:ASN:O	1:A:1399:ARG:HD3	2.04	0.57
2:B:433:GLN:HB2	32:f:326:ARG:NE	2.20	0.57
8:H:44:VAL:HG13	8:H:48:PRO:HA	1.87	0.57
20:T:43:TYR:CE1	22:V:105:ILE:HD13	2.39	0.57
22:V:82:ASN:O	22:V:87:LEU:HA	2.03	0.57
26:Z:411:CYS:O	26:Z:456:THR:HG23	2.04	0.57
26:Z:485:ILE:HG13	26:Z:485:ILE:O	2.03	0.57
32:f:103:LEU:CD1	33:g:96:ARG:NH2	2.67	0.57
32:f:406:ILE:O	32:f:410:GLU:HG3	2.03	0.57
34:h:27:LEU:CD1	34:h:128:LEU:C	2.64	0.57
34:h:67:ILE:HD13	34:h:67:ILE:N	2.19	0.57
36:j:105:ARG:NE	39:m:145:DA:OP1	2.34	0.57
36:j:116:PHE:HZ	38:l:23:DA:N1	1.94	0.57
22:V:69:ILE:CG1	22:V:104:LEU:HB3	2.32	0.57
22:V:86:GLN:O	22:V:90:LEU:HD13	2.05	0.57
25:Y:207:ILE:HD12	25:Y:207:ILE:N	2.20	0.57
25:Y:376:PHE:CD1	25:Y:376:PHE:O	2.57	0.57
25:Y:419:ILE:HD13	25:Y:435:MET:HG2	1.87	0.57
26:Z:421:ARG:CG	26:Z:430:LEU:HG	2.21	0.57
26:Z:429:THR:N	26:Z:432:PRO:HG2	2.20	0.57
26:Z:484:PHE:HE1	26:Z:486:ILE:HG12	1.69	0.57
26:Z:619:ALA:HA	26:Z:622:MET:HE2	1.87	0.57
32:f:137:VAL:HB	32:f:352:MET:SD	2.44	0.57
33:g:310:TYR:CE1	35:i:150:TYR:HB3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:g:310:TYR:CD1	35:i:134:TYR:CD1	2.69	0.57
34:h:45:GLN:CG	35:i:202:PHE:CD1	2.88	0.57
35:i:126:SER:N	35:i:127:LYS:NZ	2.52	0.57
36:j:124:THR:HB	39:m:145:DA:H1'	1.86	0.57
1:A:1063:MET:SD	1:A:1436:ILE:HG22	2.43	0.57
2:B:1215:ARG:NH1	4:D:15:LEU:HD11	2.19	0.57
17:Q:27:SER:HB2	17:Q:224:MET:HG2	1.86	0.57
18:R:4:SER:HB2	18:R:200:LEU:HG	1.84	0.57
21:U:165:TYR:CE2	23:W:80:LEU:HD21	2.39	0.57
25:Y:56:THR:CG2	25:Y:60:GLN:NE2	2.67	0.57
25:Y:83:LEU:O	25:Y:87:GLU:HG3	2.05	0.57
25:Y:253:THR:CG2	25:Y:434:ILE:HG21	2.28	0.57
25:Y:515:ASP:CB	25:Y:518:ILE:HD12	2.31	0.57
25:Y:550:ILE:HG23	25:Y:554:TRP:CZ2	2.08	0.57
25:Y:648:ILE:HD12	25:Y:652:ASP:OD2	2.04	0.57
26:Z:349:ASN:N	26:Z:350:PRO:HD3	2.19	0.57
26:Z:487:LEU:HD12	26:Z:487:LEU:N	2.20	0.57
32:f:350:TRP:CH2	33:g:59:LEU:CD2	2.73	0.57
34:h:28:VAL:CG1	34:h:43:LEU:HD21	2.26	0.57
34:h:151:LEU:HD13	34:h:151:LEU:N	2.09	0.57
35:i:192:LEU:HA	35:i:195:LEU:HD23	1.87	0.57
35:i:193:LEU:CD2	35:i:193:LEU:H	2.17	0.57
39:m:100:DA:H2''	39:m:101:DT:OP2	2.03	0.57
39:m:100:DA:H1'	39:m:101:DT:H5'	1.87	0.57
1:A:346:ASP:HB3	2:B:1108:ARG:H	1.70	0.57
1:A:436:ILE:HD11	1:A:491:VAL:HG11	1.85	0.57
2:B:542:MET:HE1	2:B:743:ILE:HD12	1.86	0.57
2:B:810:GLU:HA	2:B:815:ARG:HH12	1.69	0.57
13:M:125:PHE:HA	13:M:138:GLY:HA2	1.87	0.57
15:O:41:ASN:C	15:O:43:SER:H	2.12	0.57
25:Y:293:LEU:CD2	25:Y:419:ILE:HG22	2.31	0.57
25:Y:350:HIS:ND1	25:Y:381:LEU:CD1	2.58	0.57
25:Y:418:LEU:HD13	25:Y:634:ILE:HG13	1.85	0.57
25:Y:462:THR:CG2	25:Y:660:ARG:HG3	2.35	0.57
25:Y:518:ILE:C	25:Y:522:TYR:CD2	2.79	0.57
25:Y:541:PHE:CE1	25:Y:599:LEU:HD22	2.40	0.57
25:Y:681:LEU:CD2	25:Y:696:TRP:CH2	2.87	0.57
26:Z:335:TYR:HB3	26:Z:336:PRO:HD3	1.86	0.57
26:Z:588:PHE:HZ	26:Z:621:LYS:HZ3	1.53	0.57
32:f:374:VAL:O	33:g:73:LEU:CD2	2.48	0.57
33:g:72:ARG:HH21	33:g:221:GLU:CD	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:130:TRP:O	35:i:151:LEU:CD1	2.52	0.57
35:i:134:TYR:CE2	35:i:147:LEU:HD23	2.39	0.57
35:i:140:LYS:O	35:i:142:VAL:HG12	2.05	0.57
35:i:219:GLU:OE1	35:i:219:GLU:CA	2.46	0.57
36:j:115:ILE:HD13	36:j:143:ILE:HD11	1.87	0.57
38:l:42:DT:C2'	38:l:43:DT:C6	2.88	0.57
1:A:132:LYS:HZ2	1:A:1415:SER:CB	2.17	0.57
6:F:96:THR:CG2	7:G:66:GLY:N	2.66	0.57
17:Q:20:ILE:HG13	17:Q:87:PHE:CE2	2.34	0.57
17:Q:63:ARG:NH1	17:Q:299:ARG:O	2.38	0.57
20:T:64:LYS:H	20:T:64:LYS:HD2	1.70	0.57
21:U:25:GLN:N	37:k:24:TYR:CE1	2.72	0.57
25:Y:462:THR:HB	25:Y:664:GLN:OE1	2.04	0.57
25:Y:639:LEU:HD21	25:Y:649:ARG:HH11	1.70	0.57
26:Z:473:VAL:O	26:Z:473:VAL:HG23	2.05	0.57
26:Z:485:ILE:HD13	26:Z:505:ILE:HD13	1.87	0.57
32:f:114:MET:CE	32:f:387:ILE:HD11	2.34	0.57
33:g:69:TRP:CZ3	33:g:220:HIS:CD2	2.92	0.57
33:g:333:LEU:HB3	33:g:337:ALA:HB3	1.86	0.57
34:h:53:GLU:O	34:h:57:LEU:HG	2.04	0.57
35:i:125:SER:CA	35:i:127:LYS:NZ	2.60	0.57
35:i:205:ILE:CG1	35:i:208:LYS:CB	2.64	0.57
36:j:153:THR:HG22	36:j:154:ASP:H	1.68	0.57
1:A:5:GLN:HG3	2:B:1175:LEU:CD1	2.35	0.57
1:A:22:PHE:CB	2:B:1211:ASN:CG	2.78	0.57
16:P:630:ASN:N	16:P:649:PHE:O	2.38	0.57
17:Q:91:LYS:O	17:Q:94:THR:HG22	2.04	0.57
20:T:43:TYR:CD2	22:V:102:LYS:HD2	2.40	0.57
25:Y:466:LEU:HG	25:Y:479:LEU:HB2	1.85	0.57
26:Z:303:ARG:HD3	26:Z:504:THR:CG2	2.35	0.57
26:Z:305:GLU:CB	26:Z:327:LYS:HZ1	2.18	0.57
26:Z:328:LYS:HD3	26:Z:530:LEU:HD22	1.84	0.57
26:Z:516:THR:CA	26:Z:681:ARG:NE	2.44	0.57
34:h:13:LEU:CD2	34:h:91:TYR:HE1	2.18	0.57
1:A:901:LEU:HD22	1:A:919:ILE:HG23	1.85	0.57
20:T:46:LEU:HD11	20:T:80:LEU:HD11	1.86	0.57
21:U:74:GLN:HE21	21:U:77:ARG:CD	2.18	0.57
21:U:195:VAL:O	21:U:199:VAL:HG23	2.04	0.57
22:V:86:GLN:CD	22:V:90:LEU:HD22	2.29	0.57
25:Y:208:TYR:CZ	25:Y:213:LEU:HG	2.40	0.57
30:d:279:ALA:HA	31:e:60:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:377:SER:OG	33:g:70:LEU:CD2	2.52	0.57
34:h:13:LEU:HD22	34:h:13:LEU:H	1.70	0.57
34:h:147:PHE:HB2	34:h:156:LEU:CG	2.34	0.57
35:i:205:ILE:HD11	35:i:208:LYS:CB	2.34	0.57
2:B:104:GLU:OE2	12:L:54:ARG:HD3	2.05	0.56
2:B:121:ASN:HA	2:B:207:GLY:HA3	1.87	0.56
4:D:167:LEU:HB3	4:D:177:VAL:HG22	1.87	0.56
25:Y:190:LEU:HD12	25:Y:190:LEU:C	2.29	0.56
25:Y:352:ILE:HG22	25:Y:380:ARG:HD3	1.87	0.56
25:Y:443:SER:CA	25:Y:473:LEU:HA	2.35	0.56
25:Y:639:LEU:HG	25:Y:653:PHE:CD2	2.34	0.56
26:Z:368:LYS:HD2	26:Z:372:LYS:CD	2.35	0.56
26:Z:476:PHE:CZ	26:Z:487:LEU:HD21	2.38	0.56
36:j:114:LEU:CG	39:m:143:DT:O2	2.53	0.56
25:Y:185:CYS:SG	25:Y:192:PRO:CG	2.93	0.56
25:Y:213:LEU:HD13	25:Y:213:LEU:C	2.30	0.56
26:Z:425:LEU:CA	26:Z:429:THR:HA	2.35	0.56
32:f:137:VAL:CB	32:f:352:MET:SD	2.93	0.56
32:f:139:LEU:HB2	32:f:350:TRP:CH2	2.40	0.56
32:f:333:LYS:HZ3	39:m:131:DG:C4'	2.14	0.56
33:g:210:LYS:O	33:g:210:LYS:HG2	2.05	0.56
1:A:417:TYR:HE2	29:c:37:ARG:CG	2.18	0.56
2:B:1215:ARG:HD3	4:D:15:LEU:HD11	1.80	0.56
4:D:159:THR:O	4:D:163:VAL:HG23	2.05	0.56
12:L:40:LEU:HD22	12:L:44:ASP:CG	2.31	0.56
17:Q:97:LYS:CD	17:Q:243:ASN:HB3	1.99	0.56
17:Q:97:LYS:HD3	17:Q:243:ASN:O	2.05	0.56
17:Q:106:ARG:CZ	17:Q:211:PHE:CE2	2.88	0.56
17:Q:108:ILE:HG21	17:Q:159:GLU:CG	2.35	0.56
20:T:63:PHE:HE1	20:T:66:ASN:H	1.53	0.56
22:V:86:GLN:OE1	22:V:90:LEU:HD13	2.05	0.56
25:Y:32:LEU:CB	25:Y:61:MET:HE2	2.35	0.56
25:Y:46:THR:OG1	25:Y:485:MET:SD	2.61	0.56
25:Y:129:VAL:HG11	25:Y:194:PHE:HE1	1.71	0.56
25:Y:142:LYS:HA	25:Y:145:LEU:HD23	1.83	0.56
25:Y:229:ASP:HB3	25:Y:452:ARG:O	2.05	0.56
25:Y:567:LYS:HE2	25:Y:597:ILE:CD1	2.32	0.56
25:Y:569:ILE:O	25:Y:571:VAL:HG23	2.05	0.56
26:Z:378:ARG:HH21	26:Z:508:HIS:CA	2.16	0.56
26:Z:493:VAL:HB	26:Z:494:PRO:HD3	1.87	0.56
30:d:277:GLN:HB2	31:e:56:THR:HG23	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:376:LEU:HD21	32:f:386:MET:CG	2.03	0.56
33:g:69:TRP:HB3	33:g:219:CYS:SG	2.41	0.56
33:g:82:ARG:NE	33:g:108:LEU:CD1	2.61	0.56
34:h:119:PRO:O	34:h:120:ASN:HB2	2.03	0.56
35:i:142:VAL:C	35:i:177:THR:HG1	2.08	0.56
35:i:142:VAL:HG23	35:i:143:LEU:O	2.05	0.56
35:i:200:VAL:O	35:i:201:THR:OG1	2.18	0.56
35:i:214:TRP:HB3	35:i:215:PRO:HD2	1.87	0.56
35:i:236:LYS:HB2	35:i:245:TRP:CE3	2.36	0.56
13:M:140:GLY:N	13:M:151:GLN:O	2.39	0.56
20:T:60:VAL:HG22	20:T:61:ASP:H	1.69	0.56
20:T:104:SER:HB3	22:V:136:LYS:HZ1	1.70	0.56
25:Y:127:THR:HG21	25:Y:361:GLN:OE1	2.05	0.56
25:Y:433:PRO:HD2	25:Y:433:PRO:O	2.05	0.56
25:Y:635:LEU:C	25:Y:635:LEU:HD13	2.31	0.56
26:Z:473:VAL:HB	26:Z:481:GLU:CG	2.35	0.56
26:Z:553:GLN:HB2	26:Z:701:PHE:CG	2.39	0.56
31:e:117:ASN:HD22	31:e:118:SER:N	2.03	0.56
33:g:333:LEU:O	33:g:337:ALA:N	2.36	0.56
34:h:130:LYS:HE2	34:h:130:LYS:HA	0.57	0.56
35:i:140:LYS:CB	35:i:141:PRO:HD2	2.36	0.56
35:i:164:LYS:HZ3	35:i:165:LYS:HG2	1.63	0.56
35:i:193:LEU:O	35:i:196:LEU:HG	2.06	0.56
1:A:993:LEU:HD22	1:A:1046:LEU:HD22	1.88	0.56
2:B:911:ILE:HG22	2:B:912:ILE:HG13	1.87	0.56
6:F:96:THR:HG23	7:G:65:ASP:O	1.63	0.56
16:P:196:THR:CB	16:P:200:PHE:CB	2.84	0.56
20:T:94:TYR:CZ	22:V:109:GLU:HB3	2.39	0.56
21:U:26:SER:HB2	37:k:25:SER:H	1.71	0.56
25:Y:68:LYS:CD	25:Y:228:LYS:CG	2.22	0.56
25:Y:293:LEU:HD12	25:Y:433:PRO:HB3	1.84	0.56
25:Y:349:LEU:N	25:Y:380:ARG:HH22	2.00	0.56
25:Y:479:LEU:HD13	25:Y:479:LEU:H	1.70	0.56
25:Y:646:TYR:HB2	25:Y:648:ILE:CG1	2.29	0.56
26:Z:372:LYS:HB3	26:Z:535:LEU:CD2	2.35	0.56
26:Z:415:VAL:HG13	26:Z:416:SER:N	2.20	0.56
34:h:27:LEU:HD11	34:h:128:LEU:CB	2.35	0.56
34:h:71:LYS:HD2	34:h:71:LYS:C	2.30	0.56
35:i:143:LEU:CD1	35:i:145:ASN:OD1	2.54	0.56
35:i:191:GLU:HG2	35:i:230:ILE:CD1	2.25	0.56
35:i:219:GLU:C	35:i:223:GLN:OE1	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:47:DC:C4	38:l:48:DT:H73	2.41	0.56
38:l:60:DT:H2"	38:l:61:DG:N7	2.20	0.56
1:A:768:GLN:HG2	1:A:816:HIS:HA	1.88	0.56
18:R:203:GLN:O	18:R:206:ARG:N	2.39	0.56
19:S:101:GLU:O	19:S:102:LYS:CB	2.54	0.56
22:V:100:LEU:HD11	22:V:104:LEU:HD11	1.88	0.56
25:Y:237:ALA:HB1	25:Y:458:ILE:CG2	2.31	0.56
25:Y:441:ASP:HB2	25:Y:641:PHE:CZ	2.41	0.56
26:Z:376:ASN:CB	26:Z:380:ARG:HD3	2.27	0.56
26:Z:446:PHE:HB3	26:Z:452:LEU:HD11	1.88	0.56
26:Z:750:TYR:HB3	26:Z:756:ARG:NH1	2.21	0.56
32:f:103:LEU:CD1	33:g:96:ARG:HH21	2.18	0.56
2:B:519:TRP:HZ2	2:B:705:MET:HE1	1.70	0.56
17:Q:75:LEU:O	17:Q:98:ILE:HG12	2.06	0.56
17:Q:85:LEU:HD11	17:Q:88:ARG:H	1.69	0.56
22:V:86:GLN:HG2	22:V:90:LEU:HD11	1.88	0.56
25:Y:440:LEU:CD1	25:Y:638:ARG:CG	2.83	0.56
25:Y:653:PHE:HD1	25:Y:654:LEU:N	2.02	0.56
26:Z:618:TYR:HB3	26:Z:622:MET:HE1	1.87	0.56
32:f:145:ARG:HA	32:f:145:ARG:CZ	2.35	0.56
35:i:191:GLU:O	35:i:195:LEU:HD23	1.93	0.56
6:F:79:ARG:HG2	6:F:144:GLU:HB3	1.88	0.56
20:T:53:LEU:HD22	22:V:94:ILE:HG21	1.88	0.56
21:U:132:GLU:CB	21:U:139:ILE:HD12	2.30	0.56
22:V:135:ILE:HG23	22:V:136:LYS:N	2.21	0.56
25:Y:39:ILE:CG1	25:Y:458:ILE:HD12	2.35	0.56
25:Y:276:LYS:HG3	25:Y:337:ARG:NH2	2.20	0.56
26:Z:394:LEU:HD12	26:Z:394:LEU:H	1.69	0.56
32:f:106:ILE:CD1	32:f:384:PHE:CE1	2.84	0.56
34:h:34:PHE:CZ	34:h:134:LEU:C	2.81	0.56
34:h:124:CYS:H	34:h:130:LYS:CE	2.18	0.56
35:i:238:ASP:CA	35:i:243:TYR:CE1	2.88	0.56
7:G:45:ILE:HA	7:G:78:VAL:HG12	1.88	0.56
25:Y:327:ARG:C	25:Y:417:LEU:CD2	2.77	0.56
25:Y:550:ILE:O	25:Y:554:TRP:NE1	2.39	0.56
26:Z:436:ALA:HB1	26:Z:444:GLU:HB2	1.88	0.56
34:h:143:ASP:OD1	34:h:144:ARG:CG	2.53	0.56
35:i:148:LEU:HD11	35:i:154:LYS:CB	2.35	0.56
1:A:49:LYS:CE	1:A:61:ILE:CD1	2.81	0.56
1:A:74:MET:O	2:B:1116:ARG:NH2	2.39	0.56
1:A:257:ARG:HB2	1:A:257:ARG:HH11	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:789:MET:HE2	2:B:953:LEU:CD2	2.36	0.56
2:B:1124:ARG:HD3	29:c:61:SER:HB3	1.87	0.56
17:Q:75:LEU:O	17:Q:98:ILE:CG1	2.54	0.56
17:Q:97:LYS:HZ1	17:Q:244:SER:C	2.09	0.56
20:T:97:LEU:HA	20:T:100:ILE:CD1	2.36	0.56
25:Y:420:ILE:CG1	25:Y:633:ARG:HH22	1.96	0.56
26:Z:475:ASP:O	26:Z:505:ILE:HG12	2.06	0.56
32:f:110:ASP:OD1	32:f:386:MET:HB2	2.06	0.56
32:f:137:VAL:HG11	33:g:59:LEU:HB3	1.85	0.56
32:f:358:TYR:CD2	32:f:359:ASN:HB2	2.40	0.56
34:h:126:ILE:CB	34:h:154:GLU:HG3	2.29	0.56
34:h:146:GLU:CD	34:h:146:GLU:N	2.64	0.56
35:i:203:LYS:HE2	35:i:247:ASN:CG	2.14	0.56
36:j:211:LYS:HG2	39:m:148:DT:H5''	1.87	0.56
1:A:418:SER:CA	29:c:48:CYS:O	2.53	0.55
2:B:350:GLN:CB	32:f:407:ASP:OD2	2.54	0.55
8:H:89:LEU:C	8:H:91:ASP:H	2.14	0.55
25:Y:232:VAL:O	25:Y:457:ILE:N	2.39	0.55
25:Y:499:LYS:CE	25:Y:525:MET:HB2	2.35	0.55
26:Z:466:ARG:HB3	26:Z:477:LEU:HB2	1.87	0.55
26:Z:524:ILE:HD13	26:Z:524:ILE:N	2.21	0.55
26:Z:717:TYR:CZ	26:Z:718:TYR:CD1	2.91	0.55
33:g:306:LEU:HD23	33:g:318:LEU:HD21	1.87	0.55
38:l:59:DT:H2''	38:l:60:DT:C5'	2.36	0.55
1:A:388:LEU:HA	1:A:391:LEU:HD12	1.88	0.55
1:A:419:LYS:CB	29:c:47:LEU:O	2.48	0.55
2:B:54:PHE:HA	2:B:58:THR:HB	1.88	0.55
2:B:326:ASP:CB	40:n:60:PRO:CA	2.81	0.55
2:B:356:LEU:HA	2:B:360:PHE:HB3	1.89	0.55
4:D:7:THR:HG21	7:G:5:LYS:HZ1	1.71	0.55
6:F:89:GLU:O	6:F:93:ILE:HD12	2.07	0.55
6:F:96:THR:HG22	7:G:66:GLY:HA2	1.89	0.55
6:F:118:LEU:O	6:F:122:MET:HG3	2.06	0.55
20:T:90:TYR:O	22:V:111:THR:HB	2.06	0.55
22:V:132:GLU:O	22:V:136:LYS:HG3	2.05	0.55
25:Y:124:ARG:O	25:Y:376:PHE:CE2	2.59	0.55
25:Y:655:SER:HA	25:Y:689:LYS:HZ1	1.70	0.55
26:Z:310:ILE:CG1	26:Z:313:VAL:HG23	2.36	0.55
26:Z:474:MET:HE3	26:Z:482:TRP:N	2.22	0.55
26:Z:498:PHE:O	26:Z:501:VAL:HG22	2.05	0.55
34:h:13:LEU:HG	34:h:91:TYR:HD1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:44:LYS:HG2	34:h:54:LEU:HD22	1.87	0.55
35:i:143:LEU:HD13	35:i:145:ASN:N	2.20	0.55
10:J:3:VAL:HG11	10:J:18:TRP:HB2	1.87	0.55
11:K:57:LEU:HB2	11:K:76:GLN:HG2	1.88	0.55
25:Y:39:ILE:HG12	25:Y:458:ILE:HD12	1.87	0.55
25:Y:57:ILE:HG23	25:Y:58:ALA:N	2.21	0.55
25:Y:67:ARG:HD2	25:Y:230:SER:CB	2.36	0.55
25:Y:185:CYS:SG	25:Y:190:LEU:HD12	2.46	0.55
25:Y:253:THR:HA	25:Y:434:ILE:HG23	1.88	0.55
25:Y:293:LEU:HD11	25:Y:433:PRO:HB2	1.81	0.55
25:Y:293:LEU:CD2	25:Y:419:ILE:CG2	2.81	0.55
25:Y:330:HIS:O	25:Y:334:PHE:CD1	2.59	0.55
26:Z:344:ARG:HA	26:Z:344:ARG:HE	1.70	0.55
26:Z:455:SER:HB3	26:Z:466:ARG:CD	2.36	0.55
29:c:75:ASP:HB3	29:c:78:ARG:HB3	1.89	0.55
33:g:128:VAL:O	33:g:130:GLU:N	2.40	0.55
33:g:333:LEU:HA	33:g:337:ALA:CB	2.37	0.55
35:i:205:ILE:HD11	35:i:208:LYS:HB3	1.88	0.55
36:j:194:ILE:CD1	38:l:18:DA:O3'	2.55	0.55
1:A:67:CYS:SG	1:A:77:CYS:SG	3.04	0.55
1:A:345:VAL:N	2:B:1128:LEU:O	2.39	0.55
1:A:368:LYS:CE	1:A:399:HIS:HB2	2.19	0.55
17:Q:97:LYS:CD	17:Q:243:ASN:C	2.77	0.55
18:R:43:ARG:CB	18:R:119:ARG:HG3	2.23	0.55
20:T:126:LYS:NZ	23:W:133:ILE:HG22	2.20	0.55
21:U:182:LEU:HD11	23:W:104:VAL:HG21	1.87	0.55
22:V:86:GLN:CD	22:V:90:LEU:HD13	2.31	0.55
25:Y:70:ILE:HD11	25:Y:232:VAL:HG22	1.87	0.55
25:Y:109:THR:O	25:Y:114:LEU:HD22	2.06	0.55
25:Y:440:LEU:HD23	25:Y:641:PHE:HD2	1.61	0.55
25:Y:479:LEU:HD13	25:Y:479:LEU:N	2.21	0.55
30:d:45:LYS:HE3	31:e:21:ASP:HB3	1.88	0.55
33:g:306:LEU:HD23	33:g:349:TYR:OH	2.06	0.55
34:h:46:LEU:CD2	34:h:132:THR:HG23	2.02	0.55
34:h:130:LYS:C	34:h:131:TYR:CG	2.84	0.55
36:j:99:PHE:CB	39:m:143:DT:C5'	2.85	0.55
36:j:114:LEU:HD22	39:m:143:DT:C2	2.42	0.55
1:A:10:PRO:HG2	2:B:1192:TYR:HA	1.89	0.55
1:A:1015:VAL:HG13	1:A:1019:CYS:SG	2.47	0.55
2:B:217:ARG:NH1	2:B:407:ASP:OD1	2.40	0.55
2:B:226:PHE:HA	2:B:395:GLN:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:351:TYR:CE1	2:B:355:ILE:HD12	2.42	0.55
25:Y:61:MET:C	25:Y:64:PRO:HD2	2.31	0.55
25:Y:109:THR:HB	25:Y:114:LEU:HD13	1.89	0.55
25:Y:129:VAL:CG1	25:Y:194:PHE:HE1	2.19	0.55
25:Y:586:TYR:CD1	25:Y:616:TYR:CZ	2.94	0.55
26:Z:314:HIS:HB3	26:Z:325:VAL:HG11	1.89	0.55
26:Z:333:ILE:HD11	26:Z:343:PHE:CE1	2.41	0.55
32:f:342:LEU:HB2	32:f:345:GLU:HG3	1.88	0.55
34:h:124:CYS:HB3	34:h:129:THR:HG22	1.88	0.55
34:h:127:CYS:SG	34:h:129:THR:HG21	2.46	0.55
35:i:158:LYS:HZ3	35:i:162:LEU:HG	1.61	0.55
35:i:183:THR:O	35:i:222:ASN:CG	2.49	0.55
1:A:416:ARG:HH22	29:c:40:GLU:HG2	1.71	0.55
2:B:313:MET:HE2	2:B:386:LEU:HD22	1.87	0.55
10:J:1:MET:HB2	10:J:56:LEU:HB2	1.89	0.55
17:Q:53:ASN:ND2	17:Q:57:GLN:HB2	2.22	0.55
20:T:97:LEU:CD2	22:V:125:ILE:HD13	2.37	0.55
25:Y:229:ASP:OD2	25:Y:452:ARG:O	2.23	0.55
25:Y:497:ILE:CG1	25:Y:686:PHE:CZ	2.89	0.55
25:Y:526:LEU:HD21	25:Y:554:TRP:CZ3	2.39	0.55
26:Z:370:LEU:HD23	26:Z:370:LEU:O	2.06	0.55
26:Z:499:ARG:CG	26:Z:530:LEU:HD12	2.37	0.55
32:f:374:VAL:CG2	33:g:73:LEU:CD1	2.84	0.55
34:h:56:PRO:CD	35:i:237:LYS:HZ3	2.17	0.55
34:h:143:ASP:OD1	34:h:144:ARG:HG2	2.07	0.55
39:m:106:DA:H2''	39:m:107:DA:O4'	2.06	0.55
1:A:64:ASN:H	1:A:74:MET:HE1	1.72	0.55
1:A:418:SER:CB	29:c:48:CYS:O	2.55	0.55
3:C:39:ALA:HA	3:C:164:ALA:HB3	1.87	0.55
6:F:132:LEU:CB	7:G:61:ILE:HD13	2.28	0.55
7:G:34:VAL:O	7:G:37:SER:HB3	2.06	0.55
7:G:61:ILE:O	7:G:63:PRO:HD3	2.06	0.55
16:P:393:ILE:O	16:P:408:GLU:N	2.37	0.55
25:Y:639:LEU:CB	25:Y:653:PHE:HD2	1.92	0.55
26:Z:365:TYR:CE2	26:Z:366:GLN:HG3	2.42	0.55
30:d:231:ILE:HD13	36:j:90:ARG:HE	1.72	0.55
32:f:120:LYS:NZ	32:f:373:TYR:HB2	2.22	0.55
35:i:130:TRP:HB3	35:i:151:LEU:CD2	2.15	0.55
35:i:183:THR:CB	35:i:222:ASN:OD1	2.55	0.55
36:j:173:GLU:CD	36:j:173:GLU:H	2.15	0.55
16:P:566:VAL:O	16:P:569:ILE:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:259:VAL:HG21	17:Q:268:ILE:CD1	2.37	0.55
20:T:85:LYS:C	20:T:85:LYS:HD3	2.32	0.55
22:V:86:GLN:CG	22:V:90:LEU:HD13	2.37	0.55
22:V:135:ILE:HD13	22:V:135:ILE:C	2.30	0.55
25:Y:67:ARG:HD2	25:Y:230:SER:HB2	1.89	0.55
26:Z:408:ILE:HG12	26:Z:466:ARG:NE	2.22	0.55
26:Z:428:CYS:HB3	26:Z:432:PRO:CB	2.36	0.55
26:Z:429:THR:C	26:Z:432:PRO:HD2	2.31	0.55
32:f:396:THR:HG1	32:f:401:TYR:HE2	1.53	0.55
33:g:74:PRO:HD2	33:g:222:CYS:C	2.20	0.55
36:j:153:THR:CG2	36:j:154:ASP:N	2.69	0.55
2:B:815:ARG:HH11	2:B:815:ARG:HG3	1.72	0.55
12:L:47:ARG:HH11	12:L:47:ARG:HG3	1.70	0.55
17:Q:97:LYS:HE2	17:Q:243:ASN:HB3	0.59	0.55
20:T:111:THR:CA	22:V:143:LEU:HD22	2.27	0.55
23:W:91:LEU:O	23:W:94:ILE:HG12	2.07	0.55
25:Y:490:LYS:HD2	25:Y:676:TYR:CE1	2.42	0.55
32:f:377:SER:CB	33:g:70:LEU:HD22	2.36	0.55
33:g:295:PRO:O	33:g:299:ILE:N	2.39	0.55
35:i:140:LYS:HE3	35:i:140:LYS:CA	2.37	0.55
1:A:204:THR:HG22	1:A:235:ILE:HG21	1.89	0.55
1:A:1445:ILE:CD1	7:G:18:PHE:HZ	1.72	0.55
2:B:486:TYR:HB3	2:B:1096:ARG:NH2	2.22	0.55
22:V:76:ILE:HD12	22:V:79:ASP:OD2	2.07	0.55
25:Y:293:LEU:HD11	25:Y:433:PRO:CA	2.37	0.55
25:Y:570:LEU:HD11	25:Y:606:VAL:CG2	2.36	0.55
25:Y:621:LEU:HG	25:Y:680:VAL:CG1	2.36	0.55
33:g:312:TYR:CZ	35:i:152:SER:OG	2.58	0.55
35:i:186:VAL:HG12	35:i:189:PRO:CD	2.31	0.55
35:i:205:ILE:CD1	35:i:208:LYS:CB	2.85	0.55
36:j:101:ALA:HB3	39:m:143:DT:H1'	1.89	0.55
2:B:110:HIS:CE1	12:L:54:ARG:CZ	2.90	0.54
2:B:343:ILE:O	2:B:344:LYS:HB2	2.07	0.54
10:J:48:ARG:HE	10:J:49:MET:CE	2.19	0.54
16:P:387:LYS:HA	16:P:484:ASP:O	2.08	0.54
17:Q:81:MET:HG3	17:Q:88:ARG:NH2	2.22	0.54
18:R:62:PHE:HZ	18:R:201:ALA:CB	2.06	0.54
21:U:128:LEU:O	21:U:131:LEU:N	2.39	0.54
22:V:69:ILE:CD1	22:V:108:ASN:HD21	2.15	0.54
25:Y:631:GLU:CA	25:Y:636:LYS:CE	2.48	0.54
26:Z:425:LEU:HD23	26:Z:425:LEU:C	2.31	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:429:THR:HG22	26:Z:430:LEU:N	2.21	0.54
26:Z:753:PRO:CD	26:Z:754:ARG:H	2.20	0.54
34:h:140:LEU:HD12	34:h:146:GLU:O	2.07	0.54
35:i:162:LEU:HD23	35:i:162:LEU:H	1.73	0.54
35:i:164:LYS:HZ3	35:i:165:LYS:CG	2.16	0.54
38:l:58:DG:C4'	38:l:59:DT:C5'	2.85	0.54
2:B:1100:ASP:OD2	11:K:1:MET:HB3	2.07	0.54
3:C:167:HIS:CD2	12:L:70:ARG:HB3	2.43	0.54
7:G:111:THR:HG22	7:G:113:HIS:H	1.71	0.54
17:Q:86:ASN:HA	17:Q:89:ILE:CG1	2.23	0.54
17:Q:86:ASN:O	17:Q:90:LEU:HD13	2.08	0.54
21:U:199:VAL:O	21:U:203:LEU:HB2	2.08	0.54
25:Y:70:ILE:O	25:Y:70:ILE:HG13	2.07	0.54
25:Y:176:PHE:N	25:Y:176:PHE:HD1	2.05	0.54
25:Y:185:CYS:CB	25:Y:192:PRO:CG	2.81	0.54
25:Y:242:ASN:ND2	25:Y:660:ARG:HH22	2.05	0.54
25:Y:463:ILE:HD11	25:Y:469:TYR:CG	2.43	0.54
25:Y:515:ASP:HB2	25:Y:518:ILE:CG1	2.37	0.54
26:Z:528:ASN:HA	26:Z:532:GLY:C	2.32	0.54
32:f:333:LYS:HZ1	39:m:131:DG:C5'	1.87	0.54
34:h:61:LEU:HB2	34:h:67:ILE:HD12	1.89	0.54
6:F:92:ARG:NH1	7:G:63:PRO:CB	2.65	0.54
16:P:380:ASP:O	16:P:383:HIS:C	2.50	0.54
18:R:4:SER:HA	18:R:155:LEU:O	2.07	0.54
20:T:39:LYS:HG3	20:T:43:TYR:HE1	1.71	0.54
25:Y:128:VAL:HG21	25:Y:375:ARG:CA	2.31	0.54
25:Y:418:LEU:HD12	25:Y:438:THR:HG1	1.71	0.54
33:g:310:TYR:HD1	35:i:134:TYR:HD1	1.53	0.54
34:h:13:LEU:HG	34:h:91:TYR:CD1	2.43	0.54
34:h:13:LEU:HD21	34:h:91:TYR:CE1	2.42	0.54
1:A:22:PHE:HB2	2:B:1211:ASN:OD1	2.08	0.54
4:D:18:VAL:HG22	4:D:19:GLU:HA	1.88	0.54
6:F:92:ARG:NH2	7:G:64:THR:H	2.01	0.54
6:F:109:VAL:HG23	6:F:127:GLU:OE1	2.07	0.54
10:J:24:LEU:O	10:J:30:LEU:HB2	2.08	0.54
17:Q:64:ILE:HD13	17:Q:209:TYR:CZ	2.42	0.54
21:U:17:PRO:O	21:U:20:VAL:HG23	2.07	0.54
26:Z:345:ASN:HD21	26:Z:348:ARG:HE	1.55	0.54
26:Z:522:ASP:OD1	26:Z:524:ILE:HD11	2.06	0.54
32:f:101:PHE:CD1	33:g:98:ASN:OD1	2.61	0.54
32:f:102:PRO:HG2	33:g:99:LYS:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:g:107:LEU:HD11	33:g:119:GLU:CG	2.19	0.54
34:h:68:SER:HB3	34:h:90:LYS:HZ3	1.73	0.54
34:h:123:MET:HE3	34:h:129:THR:O	2.07	0.54
38:l:42:DT:H2'	38:l:43:DT:C6	2.43	0.54
1:A:1443:VAL:CB	7:G:61:ILE:HG22	2.37	0.54
19:S:103:GLN:O	19:S:105:GLU:N	2.41	0.54
25:Y:76:MET:HG2	25:Y:178:PHE:HE1	1.72	0.54
25:Y:86:LEU:HD13	25:Y:103:PHE:CZ	2.42	0.54
26:Z:470:SER:HA	26:Z:478:THR:CG2	2.36	0.54
36:j:79:ARG:NH2	38:l:25:DA:P	2.81	0.54
1:A:608:ILE:HD12	1:A:613:ILE:HD13	1.89	0.54
2:B:952:VAL:HG22	2:B:966:VAL:HG13	1.88	0.54
7:G:131:GLN:HG2	7:G:136:VAL:HG22	1.90	0.54
13:M:1:MET:H2	24:X:91:SER:HA	1.71	0.54
16:P:380:ASP:CB	16:P:384:SER:CB	2.86	0.54
20:T:90:TYR:CB	22:V:112:LYS:HB3	2.38	0.54
25:Y:353:SER:C	25:Y:356:PRO:HG2	2.15	0.54
25:Y:631:GLU:HA	25:Y:636:LYS:HZ2	1.70	0.54
25:Y:639:LEU:CG	25:Y:653:PHE:CZ	2.60	0.54
25:Y:669:VAL:CG1	25:Y:677:GLY:HA3	2.37	0.54
26:Z:320:ASN:HD22	26:Z:321:GLU:N	2.06	0.54
26:Z:410:LEU:HD13	26:Z:477:LEU:CD2	2.38	0.54
32:f:409:ALA:HA	32:f:412:ARG:CZ	2.38	0.54
1:A:18:GLN:HG2	1:A:1418:LEU:HD13	1.89	0.54
1:A:344:ARG:CA	2:B:1128:LEU:O	2.55	0.54
1:A:411:ASP:CG	29:c:50:LEU:HD11	2.33	0.54
1:A:666:ILE:HD11	2:B:1030:LEU:HD13	1.90	0.54
2:B:350:GLN:NE2	32:f:411:LYS:NZ	2.56	0.54
22:V:99:LYS:HD2	22:V:99:LYS:O	2.08	0.54
24:X:96:GLU:HA	37:k:19:PRO:CA	2.29	0.54
26:Z:505:ILE:HG21	26:Z:507:ALA:CB	2.37	0.54
33:g:318:LEU:CD1	33:g:349:TYR:CD2	2.86	0.54
34:h:52:THR:O	34:h:56:PRO:HD2	2.07	0.54
34:h:129:THR:HG21	34:h:131:TYR:OH	2.08	0.54
36:j:65:PRO:HG2	36:j:224:TYR:HD1	1.72	0.54
2:B:338:GLY:CA	2:B:339:THR:HB	2.38	0.54
3:C:37:MET:HE3	3:C:176:ILE:HD13	1.90	0.54
16:P:632:SER:O	16:P:647:ILE:N	2.39	0.54
25:Y:342:LEU:HD12	25:Y:346:MET:HE2	1.90	0.54
26:Z:383:ILE:HD13	26:Z:383:ILE:H	1.72	0.54
26:Z:563:ALA:HA	27:a:450:ARG:NE	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:125:SER:C	35:i:129:LEU:HD12	2.24	0.54
35:i:130:TRP:CD1	35:i:151:LEU:CD2	2.90	0.54
35:i:221:ILE:O	35:i:225:GLU:HB2	2.08	0.54
1:A:320:ARG:HG2	1:A:321:PRO:HD2	1.90	0.54
1:A:497:THR:HG23	2:B:1146:PHE:HA	1.89	0.54
1:A:1397:LEU:HB3	1:A:1429:ILE:HD12	1.90	0.54
2:B:451:LYS:HE3	29:c:138:ASP:OD2	2.00	0.54
17:Q:87:PHE:CE2	17:Q:220:VAL:HG21	2.42	0.54
18:R:203:GLN:O	18:R:205:VAL:N	2.40	0.54
20:T:87:LEU:HA	20:T:90:TYR:HE2	1.63	0.54
22:V:86:GLN:HA	22:V:89:THR:CG2	2.36	0.54
25:Y:166:GLU:O	25:Y:170:TYR:HD1	1.91	0.54
25:Y:330:HIS:HB3	25:Y:334:PHE:HE1	1.73	0.54
26:Z:431:GLN:HB2	26:Z:432:PRO:CD	2.37	0.54
31:e:117:ASN:HD22	31:e:118:SER:H	1.55	0.54
35:i:238:ASP:HA	35:i:243:TYR:CE1	2.42	0.54
1:A:275:SER:OG	29:c:117:ASN:OD1	2.24	0.54
5:E:156:LEU:HD11	5:E:197:LYS:HB2	1.90	0.54
17:Q:108:ILE:HG21	17:Q:159:GLU:HG2	1.90	0.54
25:Y:68:LYS:CB	25:Y:228:LYS:HG3	2.36	0.54
25:Y:230:SER:H	25:Y:453:PHE:HB2	1.64	0.54
32:f:349:PRO:O	32:f:349:PRO:HD2	2.08	0.54
33:g:353:PRO:CG	35:i:126:SER:OG	2.56	0.54
34:h:61:LEU:CB	34:h:67:ILE:HD12	2.37	0.54
35:i:125:SER:C	35:i:127:LYS:NZ	2.67	0.54
14:N:156:THR:O	14:N:159:ALA:HB3	2.07	0.53
20:T:38:SER:O	20:T:42:LEU:HB2	2.07	0.53
25:Y:167:VAL:HG22	25:Y:190:LEU:CD2	2.37	0.53
25:Y:259:ARG:CA	25:Y:379:GLU:OE1	2.56	0.53
26:Z:354:ILE:HG22	26:Z:355:ASP:N	2.23	0.53
26:Z:458:SER:HB3	26:Z:467:SER:CB	2.37	0.53
1:A:42:ASP:OD1	1:A:46:THR:N	2.41	0.53
4:D:40:HIS:HB3	7:G:73:LYS:CE	2.34	0.53
12:L:34:CYS:O	12:L:35:SER:C	2.52	0.53
16:P:325:ILE:N	16:P:337:ILE:O	2.35	0.53
17:Q:75:LEU:O	17:Q:98:ILE:CB	2.52	0.53
20:T:64:LYS:HD2	20:T:64:LYS:N	2.23	0.53
21:U:73:ASN:ND2	21:U:75:GLN:HE21	2.06	0.53
21:U:162:LEU:HD23	23:W:9:GLN:HG2	1.90	0.53
25:Y:63:TYR:N	25:Y:64:PRO:CD	2.71	0.53
25:Y:635:LEU:HD13	25:Y:635:LEU:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:127:ILE:HD13	32:f:361:TRP:HZ3	1.73	0.53
1:A:412:ARG:CB	29:c:51:VAL:HG11	2.39	0.53
1:A:1349:TYR:HA	1:A:1372:VAL:HG21	1.90	0.53
1:A:1390:ASN:O	1:A:1399:ARG:CG	2.57	0.53
1:A:1451:VAL:CG2	7:G:22:MET:SD	2.83	0.53
2:B:451:LYS:HZ2	29:c:147:LYS:HZ3	1.54	0.53
17:Q:68:LYS:HG2	17:Q:164:TRP:CZ3	2.44	0.53
20:T:54:SER:OG	20:T:59:SER:HB3	2.08	0.53
20:T:80:LEU:CD2	22:V:73:LEU:HD12	2.39	0.53
22:V:118:SER:HB2	22:V:119:PRO:CD	2.38	0.53
25:Y:467:ASP:HB3	25:Y:471:ARG:HH12	1.74	0.53
26:Z:466:ARG:HB2	26:Z:477:LEU:CB	2.38	0.53
32:f:134:HIS:ND1	32:f:352:MET:CE	2.62	0.53
32:f:348:TYR:CE2	32:f:393:TYR:OH	2.60	0.53
34:h:29:LEU:HD13	34:h:66:LEU:HB3	1.88	0.53
34:h:129:THR:OG1	34:h:130:LYS:N	2.41	0.53
35:i:140:LYS:O	35:i:142:VAL:CG1	2.56	0.53
35:i:166:LEU:C	35:i:166:LEU:HD13	2.33	0.53
35:i:205:ILE:O	35:i:209:ASP:HB2	2.07	0.53
2:B:560:GLU:OE1	33:g:226:PRO:HG3	2.08	0.53
6:F:133:VAL:O	7:G:61:ILE:CD1	2.52	0.53
31:e:117:ASN:ND2	31:e:119:LYS:HG2	2.22	0.53
32:f:340:LYS:HE2	32:f:340:LYS:HA	1.90	0.53
33:g:306:LEU:HD22	33:g:318:LEU:HD23	1.87	0.53
34:h:95:ILE:HG23	34:h:95:ILE:O	2.08	0.53
1:A:16:GLU:CD	4:D:14:ARG:HH12	2.16	0.53
1:A:1399:ARG:HB3	1:A:1408:ILE:HD13	1.89	0.53
17:Q:97:LYS:NZ	17:Q:237:GLN:O	2.42	0.53
19:S:63:MET:O	19:S:67:LYS:CB	2.57	0.53
21:U:127:LEU:HG	21:U:131:LEU:HD23	1.91	0.53
23:W:33:GLU:HG3	23:W:33:GLU:O	2.08	0.53
26:Z:446:PHE:HB3	26:Z:452:LEU:CD1	2.38	0.53
26:Z:455:SER:HB3	26:Z:466:ARG:HG3	1.88	0.53
29:c:58:ASP:O	29:c:62:GLU:HB2	2.08	0.53
33:g:333:LEU:CB	33:g:337:ALA:CB	2.86	0.53
38:l:53:DT:H2"	38:l:54:DG:OP2	2.09	0.53
1:A:61:ILE:HD12	1:A:61:ILE:C	2.34	0.53
1:A:338:GLY:HA2	2:B:1129:ARG:HH22	1.73	0.53
1:A:1004:ASN:CG	5:E:167:ARG:HD2	2.33	0.53
1:A:1376:THR:HG23	5:E:212:ARG:HH22	1.72	0.53
2:B:280:ILE:HD13	2:B:334:ILE:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:164:ALA:HA	3:C:167:HIS:O	2.09	0.53
5:E:19:VAL:O	5:E:23:VAL:HG23	2.08	0.53
25:Y:111:ARG:HE	25:Y:129:VAL:HG21	1.71	0.53
25:Y:526:LEU:HD12	25:Y:621:LEU:HD22	1.91	0.53
26:Z:357:LYS:HG3	26:Z:357:LYS:O	2.09	0.53
26:Z:485:ILE:CG1	26:Z:510:LYS:HG2	2.39	0.53
30:d:246:CYS:HB3	30:d:265:GLY:HA3	1.89	0.53
32:f:103:LEU:HD21	33:g:98:ASN:HD22	0.71	0.53
34:h:64:ASP:O	34:h:65:ARG:HB2	2.09	0.53
36:j:230:ILE:HG13	36:j:234:LEU:HD13	1.90	0.53
18:R:43:ARG:CZ	18:R:117:MET:CE	2.79	0.53
25:Y:42:MET:SD	25:Y:53:LEU:CD1	2.93	0.53
25:Y:253:THR:CG2	25:Y:434:ILE:CD1	2.77	0.53
25:Y:277:VAL:CG1	25:Y:278:ASP:N	2.71	0.53
25:Y:337:ARG:NH2	25:Y:345:ARG:HD3	2.24	0.53
25:Y:639:LEU:HA	25:Y:653:PHE:CD2	2.41	0.53
26:Z:356:LEU:CB	26:Z:427:TRP:HD1	2.22	0.53
26:Z:752:SER:HB2	26:Z:753:PRO:CD	2.39	0.53
28:b:19:LEU:CD1	28:b:58:LEU:HD11	2.39	0.53
31:e:87:VAL:O	31:e:88:GLU:HB2	2.09	0.53
2:B:510:LYS:HB2	2:B:513:GLN:OE1	2.08	0.53
6:F:134:ILE:HG22	6:F:136:ARG:HG3	1.91	0.53
17:Q:31:PRO:HG3	17:Q:87:PHE:CE1	2.43	0.53
25:Y:142:LYS:CA	25:Y:145:LEU:HD21	2.32	0.53
26:Z:473:VAL:CB	26:Z:481:GLU:HG3	2.39	0.53
26:Z:785:ARG:NH1	39:m:105:DC:H5	2.04	0.53
1:A:340:LEU:HD21	2:B:1199:ALA:HB3	1.91	0.53
1:A:1172:LEU:C	1:A:1174:PHE:H	2.16	0.53
7:G:18:PHE:HA	7:G:22:MET:SD	2.49	0.53
20:T:85:LYS:HD3	20:T:85:LYS:O	2.08	0.53
20:T:90:TYR:HB3	22:V:112:LYS:HB3	1.91	0.53
25:Y:231:ILE:N	25:Y:455:SER:HB2	2.24	0.53
25:Y:352:ILE:CG2	25:Y:380:ARG:HD3	2.39	0.53
25:Y:519:VAL:HG13	25:Y:550:ILE:CD1	2.34	0.53
25:Y:681:LEU:CD2	25:Y:696:TRP:HZ3	2.10	0.53
26:Z:373:MET:CE	26:Z:511:LEU:HD13	2.38	0.53
26:Z:421:ARG:HD3	26:Z:437:VAL:CG2	2.39	0.53
26:Z:460:VAL:CG2	38:l:65:DA:C4'	2.56	0.53
26:Z:473:VAL:HG12	26:Z:481:GLU:CG	2.39	0.53
26:Z:494:PRO:HB2	26:Z:519:ARG:HH11	1.72	0.53
32:f:330:ARG:HG3	32:f:331:GLN:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:56:PRO:HG2	35:i:237:LYS:HZ1	0.90	0.53
38:l:58:DG:H2''	38:l:59:DT:C6	2.43	0.53
10:J:48:ARG:HE	10:J:49:MET:HE2	1.74	0.53
21:U:127:LEU:HG	21:U:131:LEU:CD2	2.39	0.53
25:Y:353:SER:OG	25:Y:381:LEU:HA	2.08	0.53
25:Y:393:VAL:HG11	25:Y:437:PHE:CG	2.42	0.53
26:Z:737:THR:O	26:Z:738:HIS:HD2	1.92	0.53
30:d:7:SER:O	30:d:11:GLU:HG3	2.08	0.53
32:f:102:PRO:CD	32:f:102:PRO:O	2.57	0.53
34:h:130:LYS:O	34:h:131:TYR:CD1	2.62	0.53
35:i:196:LEU:HD12	35:i:197:ARG:N	2.23	0.53
38:l:60:DT:OP2	38:l:60:DT:H2'	2.09	0.53
1:A:22:PHE:HB3	2:B:1211:ASN:OD1	2.09	0.52
1:A:36:ARG:HH21	1:A:57:ARG:NH1	1.92	0.52
2:B:174:LEU:HD11	2:B:204:ILE:HG13	1.91	0.52
22:V:86:GLN:O	22:V:89:THR:HG22	2.10	0.52
25:Y:111:ARG:NH2	25:Y:197:ARG:NH1	2.57	0.52
25:Y:200:ILE:HD12	25:Y:226:VAL:N	2.17	0.52
25:Y:269:GLU:O	25:Y:277:VAL:HG13	2.08	0.52
26:Z:363:ARG:NH2	26:Z:366:GLN:HE22	2.02	0.52
26:Z:459:MET:H	26:Z:464:ARG:HB3	1.74	0.52
26:Z:627:ILE:HB	26:Z:654:LEU:CD2	2.37	0.52
32:f:103:LEU:HD23	33:g:98:ASN:CB	2.33	0.52
33:g:306:LEU:HD23	33:g:318:LEU:HD23	1.79	0.52
33:g:333:LEU:CA	33:g:337:ALA:HB2	2.38	0.52
34:h:44:LYS:HE3	34:h:54:LEU:CG	2.39	0.52
35:i:172:ASP:OD2	35:i:179:LYS:CG	2.55	0.52
35:i:183:THR:O	35:i:222:ASN:CB	2.57	0.52
38:l:39:DC:H2'	38:l:40:DG:C8	2.44	0.52
1:A:253:ASN:O	1:A:255:SER:N	2.38	0.52
1:A:1116:LEU:H	1:A:1308:THR:HB	1.73	0.52
20:T:57:VAL:O	20:T:57:VAL:HG12	2.08	0.52
25:Y:327:ARG:CB	25:Y:330:HIS:HE1	2.14	0.52
25:Y:357:LYS:HG3	25:Y:376:PHE:HD1	1.74	0.52
26:Z:458:SER:OG	26:Z:467:SER:HB3	2.08	0.52
26:Z:466:ARG:HE	26:Z:475:ASP:CB	2.22	0.52
32:f:376:LEU:CD2	32:f:386:MET:HE3	2.31	0.52
35:i:151:LEU:HD22	35:i:153:MET:HG3	1.90	0.52
36:j:77:GLY:O	36:j:151:LYS:HE2	2.09	0.52
36:j:106:ILE:HG23	36:j:139:TYR:CE1	2.45	0.52
1:A:91:PHE:HD2	1:A:179:LEU:O	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:179:LEU:HD13	1:A:297:GLN:HG3	1.91	0.52
1:A:338:GLY:HA2	2:B:1129:ARG:NH2	2.23	0.52
1:A:982:THR:HB	1:A:985:ASP:H	1.73	0.52
17:Q:20:ILE:HG13	17:Q:87:PHE:CG	2.44	0.52
20:T:81:PHE:CE2	22:V:77:ARG:HD2	2.44	0.52
25:Y:357:LYS:CG	25:Y:376:PHE:HD1	2.21	0.52
25:Y:458:ILE:HD13	25:Y:469:TYR:HE2	1.72	0.52
26:Z:302:GLU:O	26:Z:303:ARG:HB2	2.10	0.52
33:g:292:ILE:HD12	33:g:328:HIS:NE2	2.24	0.52
37:k:4:SER:CB	37:k:5:PRO:CD	2.86	0.52
1:A:54:ASN:HB3	1:A:247:ARG:HH12	1.74	0.52
2:B:295:GLY:HA2	2:B:298:LEU:HB2	1.91	0.52
3:C:73:GLN:O	3:C:129:ILE:HA	2.08	0.52
5:E:94:LYS:HE2	5:E:98:ILE:HD11	1.89	0.52
6:F:96:THR:OG1	7:G:64:THR:CA	2.57	0.52
7:G:119:LEU:HD12	7:G:132:SER:HB2	1.91	0.52
11:K:5:ASP:HB3	11:K:7:PHE:CE2	2.45	0.52
22:V:69:ILE:HG22	22:V:73:LEU:HD23	1.92	0.52
24:X:21:THR:HG22	24:X:23:PHE:N	2.24	0.52
25:Y:185:CYS:HB3	25:Y:192:PRO:HD3	1.90	0.52
25:Y:467:ASP:CA	25:Y:470:PRO:HG3	2.38	0.52
25:Y:655:SER:O	25:Y:689:LYS:NZ	2.43	0.52
26:Z:518:VAL:HA	26:Z:524:ILE:HG21	1.92	0.52
38:l:60:DT:P	38:l:60:DT:H3'	2.49	0.52
12:L:52:GLY:O	12:L:53:HIS:C	2.52	0.52
16:P:566:VAL:HA	16:P:569:ILE:CB	2.39	0.52
17:Q:109:LEU:HG	17:Q:110:HIS:N	2.25	0.52
25:Y:288:LYS:CB	25:Y:335:LEU:HD12	2.40	0.52
25:Y:518:ILE:C	25:Y:522:TYR:HD2	2.12	0.52
25:Y:525:MET:HE3	25:Y:529:PHE:HZ	1.70	0.52
26:Z:327:LYS:HG3	26:Z:506:ALA:N	2.25	0.52
26:Z:446:PHE:O	26:Z:452:LEU:HD22	2.09	0.52
26:Z:489:GLU:HB3	26:Z:491:HIS:CE1	2.45	0.52
26:Z:505:ILE:HG22	26:Z:506:ALA:N	2.22	0.52
26:Z:619:ALA:HA	26:Z:622:MET:CE	2.39	0.52
32:f:103:LEU:CD2	33:g:98:ASN:CA	2.82	0.52
33:g:128:VAL:C	33:g:130:GLU:H	2.16	0.52
34:h:122:TYR:CE2	34:h:136:ALA:HB2	2.44	0.52
34:h:139:LEU:HD22	34:h:148:LEU:O	2.10	0.52
38:l:47:DC:N1	38:l:48:DT:H71	2.25	0.52
1:A:357:PRO:HD2	2:B:833:TYR:CZ	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:399:HIS:NE2	1:A:462:VAL:CG1	2.69	0.52
1:A:412:ARG:CB	29:c:51:VAL:CG1	2.88	0.52
1:A:541:ILE:HG22	1:A:546:VAL:HG23	1.91	0.52
2:B:90:ILE:HD11	2:B:134:LYS:HE2	1.90	0.52
2:B:110:HIS:CE1	12:L:54:ARG:NH1	2.77	0.52
16:P:380:ASP:O	16:P:381:PHE:O	2.27	0.52
16:P:402:ASP:O	16:P:404:ILE:N	2.41	0.52
17:Q:89:ILE:HG13	17:Q:90:LEU:N	2.25	0.52
18:R:4:SER:CB	18:R:200:LEU:CD2	2.74	0.52
21:U:132:GLU:CD	21:U:139:ILE:CD1	2.75	0.52
23:W:19:PHE:CE1	23:W:66:ILE:HD13	2.44	0.52
23:W:94:ILE:CG1	23:W:95:ASP:N	2.69	0.52
24:X:54:PHE:CE2	24:X:58:LEU:HD11	2.45	0.52
25:Y:129:VAL:HG11	25:Y:194:PHE:CE1	2.44	0.52
25:Y:384:LEU:O	25:Y:384:LEU:HD13	2.10	0.52
25:Y:468:MET:N	25:Y:470:PRO:HD2	2.25	0.52
25:Y:486:THR:HG21	25:Y:670:LEU:CD2	2.40	0.52
26:Z:310:ILE:HG23	26:Z:310:ILE:O	2.09	0.52
33:g:292:ILE:HA	33:g:295:PRO:CD	2.40	0.52
36:j:99:PHE:CB	39:m:143:DT:H5'	2.34	0.52
1:A:12:ARG:NH1	2:B:1218:THR:OG1	2.43	0.52
1:A:227:VAL:HG13	4:D:16:LYS:HG2	1.91	0.52
1:A:870:GLU:HB2	5:E:204:THR:CG2	2.40	0.52
6:F:133:VAL:HG12	7:G:61:ILE:HG13	1.91	0.52
17:Q:299:ARG:HG2	17:Q:300:VAL:H	1.75	0.52
21:U:24:THR:HB	37:k:24:TYR:HD1	1.74	0.52
21:U:121:LYS:O	21:U:122:LEU:C	2.53	0.52
21:U:143:MET:O	21:U:146:ARG:N	2.42	0.52
25:Y:111:ARG:HH22	25:Y:197:ARG:HH12	1.57	0.52
25:Y:567:LYS:CE	25:Y:597:ILE:HD13	2.33	0.52
25:Y:705:ASP:OD1	25:Y:706:LEU:N	2.41	0.52
26:Z:373:MET:HE2	26:Z:384:ILE:HD13	1.92	0.52
26:Z:476:PHE:O	26:Z:501:VAL:HG23	2.08	0.52
32:f:103:LEU:HD11	33:g:96:ARG:HH21	1.74	0.52
32:f:106:ILE:HG21	32:f:384:PHE:CD1	2.45	0.52
33:g:59:LEU:HG	33:g:214:ILE:HG13	1.92	0.52
38:l:41:DA:C2'	38:l:42:DT:C4'	2.84	0.52
1:A:320:ARG:HH22	29:c:81:GLU:HG3	1.75	0.52
1:A:472:LEU:O	1:A:475:THR:HB	2.10	0.52
1:A:658:LEU:HD23	1:A:659:HIS:NE2	2.24	0.52
1:A:1149:ALA:HB2	9:I:47:GLU:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:100:GLN:OE1	7:G:15:PRO:HG2	2.10	0.52
13:M:124:ASP:O	13:M:138:GLY:HA2	2.10	0.52
16:P:240:SER:N	37:k:6:THR:OG1	2.40	0.52
17:Q:20:ILE:CD1	17:Q:87:PHE:CD2	2.87	0.52
18:R:162:GLU:HA	18:R:162:GLU:OE1	2.10	0.52
26:Z:420:TRP:HB3	26:Z:424:PHE:CE2	2.45	0.52
26:Z:519:ARG:HH11	26:Z:523:LYS:HB2	1.73	0.52
32:f:102:PRO:CD	33:g:99:LYS:C	2.70	0.52
33:g:109:ASN:CG	33:g:111:ASN:OD1	2.53	0.52
33:g:308:ASP:O	35:i:133:GLU:CG	2.58	0.52
34:h:38:LEU:O	34:h:87:TYR:HD1	1.93	0.52
1:A:417:TYR:HE2	29:c:37:ARG:CD	2.22	0.52
2:B:291:ILE:H	2:B:291:ILE:HD12	1.74	0.52
2:B:1103:ILE:O	2:B:1122:ARG:NH1	2.42	0.52
12:L:34:CYS:SG	12:L:51:CYS:SG	3.08	0.52
20:T:49:TYR:CZ	20:T:73:LEU:HG	2.45	0.52
21:U:57:GLU:O	21:U:57:GLU:HG2	2.10	0.52
24:X:52:PRO:HB2	37:k:24:TYR:HE2	1.75	0.52
25:Y:193:TYR:HH	25:Y:221:ARG:NH1	2.04	0.52
25:Y:384:LEU:HD13	25:Y:384:LEU:C	2.35	0.52
32:f:347:PHE:HD1	32:f:364:SER:HA	1.74	0.52
33:g:63:ARG:HG3	33:g:215:VAL:HG12	1.92	0.52
33:g:127:LYS:HB3	33:g:221:GLU:HG3	1.92	0.52
33:g:292:ILE:HB	33:g:295:PRO:CG	2.33	0.52
35:i:130:TRP:HD1	35:i:151:LEU:CG	1.99	0.52
35:i:158:LYS:CD	35:i:162:LEU:HG	2.40	0.52
1:A:23:SER:HB2	1:A:233:TRP:CE2	2.44	0.52
1:A:67:CYS:C	1:A:68:GLN:HG3	2.34	0.52
1:A:195:ASP:HB2	39:m:117:DG:OP2	2.06	0.52
2:B:405:ARG:NH2	2:B:629:ASP:OD2	2.40	0.52
20:T:55:LYS:NZ	20:T:62:ARG:HE	2.08	0.52
25:Y:20:GLU:O	25:Y:24:TYR:CD2	2.63	0.52
26:Z:376:ASN:HB2	26:Z:380:ARG:HD2	1.90	0.52
26:Z:408:ILE:HG21	26:Z:476:PHE:H	1.75	0.52
26:Z:596:GLN:O	26:Z:600:ARG:HG3	2.09	0.52
35:i:154:LYS:NZ	35:i:154:LYS:CB	2.73	0.52
35:i:207:CYS:CB	35:i:208:LYS:HE2	2.37	0.52
35:i:226:GLU:HA	35:i:229:LYS:HZ1	1.74	0.52
36:j:71:VAL:HG21	39:m:145:DA:H2	1.68	0.52
36:j:100:ALA:CB	39:m:142:DA:H2	2.14	0.52
1:A:494:SER:HB3	1:A:497:THR:OG1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1431:GLY:HA3	2:B:1197:PRO:HD3	1.91	0.51
2:B:351:TYR:CE1	2:B:355:ILE:CD1	2.93	0.51
11:K:55:LYS:HB3	11:K:81:TYR:CD2	2.45	0.51
16:P:398:GLU:O	16:P:401:ASP:CB	2.58	0.51
17:Q:27:SER:CB	17:Q:224:MET:HG2	2.40	0.51
18:R:36:SER:HB3	18:R:63:HIS:CD2	2.44	0.51
22:V:145:ARG:HG3	22:V:149:ARG:NE	2.25	0.51
25:Y:37:ASN:OD1	25:Y:477:THR:HB	2.10	0.51
25:Y:619:THR:HG22	25:Y:621:LEU:HD12	1.93	0.51
25:Y:627:PHE:HD1	25:Y:654:LEU:HD11	1.72	0.51
26:Z:353:ASP:HA	26:Z:447:GLN:CD	2.35	0.51
31:e:71:PHE:HE2	36:j:95:ASN:HB2	1.74	0.51
35:i:208:LYS:HD2	35:i:208:LYS:N	2.25	0.51
35:i:236:LYS:CE	35:i:245:TRP:CZ2	2.92	0.51
20:T:39:LYS:H	22:V:113:ASP:CG	2.17	0.51
22:V:119:PRO:HB2	22:V:122:TRP:NE1	2.04	0.51
25:Y:32:LEU:HD12	25:Y:57:ILE:CD1	2.40	0.51
25:Y:179:GLU:HG2	25:Y:180:LYS:N	2.24	0.51
25:Y:269:GLU:O	25:Y:277:VAL:CG1	2.59	0.51
25:Y:272:SER:CB	25:Y:281:LYS:CE	2.78	0.51
25:Y:348:VAL:O	25:Y:352:ILE:HG12	2.10	0.51
25:Y:354:GLU:N	25:Y:356:PRO:HD2	2.21	0.51
26:Z:370:LEU:O	26:Z:373:MET:HB3	2.11	0.51
26:Z:484:PHE:CD2	26:Z:509:ALA:CB	2.93	0.51
26:Z:498:PHE:O	26:Z:501:VAL:HG13	2.10	0.51
32:f:139:LEU:HD13	32:f:350:TRP:CG	2.31	0.51
32:f:365:TYR:CZ	32:f:391:LYS:HD2	2.44	0.51
35:i:138:LYS:NZ	35:i:138:LYS:CB	2.73	0.51
35:i:166:LEU:HD12	35:i:167:ASP:N	2.25	0.51
35:i:179:LYS:HD3	35:i:179:LYS:N	2.20	0.51
4:D:165:GLN:HE22	37:k:1:PRO:CG	2.14	0.51
7:G:60:ARG:HH21	7:G:69:GLU:CD	2.18	0.51
16:P:341:TYR:CA	16:P:354:ILE:CB	2.74	0.51
22:V:86:GLN:OE1	22:V:90:LEU:HD22	2.11	0.51
23:W:118:LEU:O	23:W:122:VAL:HG23	2.10	0.51
25:Y:200:ILE:O	25:Y:203:CYS:SG	2.68	0.51
26:Z:424:PHE:CE2	26:Z:454:VAL:CG2	2.94	0.51
26:Z:429:THR:H	26:Z:432:PRO:HG2	1.74	0.51
26:Z:476:PHE:CZ	26:Z:502:VAL:CG2	2.94	0.51
26:Z:659:ASP:CG	26:Z:686:ARG:HD3	2.36	0.51
29:c:196:ILE:HG13	29:c:197:HIS:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:157:ASP:C	35:i:157:ASP:OD1	2.53	0.51
35:i:238:ASP:N	35:i:243:TYR:CD1	2.77	0.51
1:A:67:CYS:O	1:A:70:CYS:HB3	2.11	0.51
1:A:1443:VAL:CA	6:F:133:VAL:O	2.58	0.51
2:B:451:LYS:HZ2	29:c:147:LYS:NZ	2.07	0.51
5:E:64:PRO:HB2	5:E:69:ILE:HD11	1.93	0.51
6:F:92:ARG:NE	7:G:64:THR:CA	2.60	0.51
20:T:55:LYS:HE3	20:T:62:ARG:NH2	2.24	0.51
20:T:93:ILE:HG23	20:T:94:TYR:N	2.26	0.51
25:Y:215:ASP:CB	25:Y:218:ILE:HG22	2.40	0.51
26:Z:460:VAL:C	26:Z:464:ARG:HE	2.18	0.51
26:Z:490:VAL:O	26:Z:490:VAL:HG22	2.11	0.51
26:Z:584:ASN:CG	26:Z:586:THR:CG2	2.82	0.51
32:f:348:TYR:CD2	32:f:393:TYR:CE2	2.98	0.51
1:A:412:ARG:HB3	29:c:51:VAL:HG12	1.92	0.51
1:A:940:ARG:HB3	1:A:941:LYS:HE2	1.93	0.51
2:B:560:GLU:CA	33:g:225:MET:HE1	2.40	0.51
14:N:124:GLU:CB	24:X:104:ASP:OD2	2.59	0.51
16:P:365:ASN:HA	16:P:381:PHE:HA	1.92	0.51
24:X:74:VAL:O	24:X:76:PRO:HD3	2.10	0.51
25:Y:106:LEU:HD13	25:Y:196:VAL:HG13	1.92	0.51
25:Y:185:CYS:SG	25:Y:192:PRO:CB	2.99	0.51
25:Y:231:ILE:CA	25:Y:455:SER:CB	2.63	0.51
25:Y:567:LYS:CD	25:Y:597:ILE:CG2	2.89	0.51
25:Y:681:LEU:HD21	25:Y:696:TRP:HH2	1.75	0.51
26:Z:446:PHE:CB	26:Z:452:LEU:HD11	2.41	0.51
34:h:135:GLU:HA	34:h:138:GLN:HG2	1.91	0.51
37:k:14:SER:HB3	37:k:15:PRO:CD	2.41	0.51
39:m:124:DA:C4	39:m:125:DT:C5	2.99	0.51
1:A:646:PHE:O	1:A:650:GLN:HG2	2.10	0.51
1:A:1095:THR:HG23	1:A:1113:THR:HG23	1.93	0.51
20:T:118:LEU:CD1	23:W:130:VAL:C	2.62	0.51
25:Y:212:TYR:CZ	25:Y:222:VAL:CG2	2.93	0.51
25:Y:529:PHE:CD1	25:Y:529:PHE:N	2.79	0.51
25:Y:679:MET:HE2	25:Y:681:LEU:CD1	2.29	0.51
26:Z:484:PHE:CE1	26:Z:486:ILE:CG1	2.94	0.51
32:f:120:LYS:HZ2	32:f:373:TYR:HB2	1.76	0.51
32:f:347:PHE:CD1	32:f:364:SER:HA	2.46	0.51
1:A:343:LYS:HZ2	2:B:1156:ASP:HB2	1.76	0.51
2:B:249:ARG:HH12	2:B:418:LYS:CD	2.22	0.51
3:C:167:HIS:NE2	12:L:70:ARG:HB3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:49:GLU:HG3	11:K:94:ILE:CG1	2.40	0.51
16:P:362:GLU:O	16:P:423:LYS:CA	2.55	0.51
17:Q:31:PRO:HB2	17:Q:220:VAL:HB	1.92	0.51
20:T:97:LEU:HA	20:T:100:ILE:HG12	1.92	0.51
21:U:146:ARG:NH1	21:U:149:GLU:OE1	2.42	0.51
26:Z:487:LEU:HD22	26:Z:490:VAL:CG2	2.33	0.51
32:f:106:ILE:HG21	32:f:384:PHE:HD1	1.76	0.51
32:f:152:THR:HG21	32:f:337:GLU:OE1	2.09	0.51
35:i:161:GLU:O	35:i:164:LYS:HD3	2.11	0.51
2:B:238:ALA:HB3	2:B:256:VAL:HB	1.93	0.51
2:B:373:ARG:HG2	2:B:566:LEU:HD23	1.93	0.51
3:C:87:PHE:CE1	18:R:120:GLN:NE2	2.79	0.51
16:P:380:ASP:O	16:P:383:HIS:N	2.43	0.51
17:Q:256:TYR:O	17:Q:257:ILE:HG13	2.11	0.51
20:T:80:LEU:HD21	22:V:73:LEU:HD12	1.93	0.51
20:T:123:ASP:OD1	23:W:132:GLY:CA	2.58	0.51
25:Y:111:ARG:HH21	25:Y:129:VAL:HG11	1.76	0.51
25:Y:193:TYR:OH	25:Y:197:ARG:HD2	2.08	0.51
26:Z:410:LEU:CD2	26:Z:457:TYR:CE2	2.94	0.51
26:Z:414:SER:O	26:Z:417:VAL:HB	2.10	0.51
26:Z:785:ARG:O	26:Z:785:ARG:HG3	2.11	0.51
29:c:157:CYS:HB3	29:c:210:MET:HE2	1.92	0.51
32:f:108:LYS:CG	33:g:95:ILE:CD1	2.89	0.51
33:g:299:ILE:CD1	33:g:328:HIS:CE1	2.92	0.51
33:g:333:LEU:HD13	33:g:349:TYR:HD2	1.75	0.51
34:h:17:VAL:HG23	34:h:18:ARG:N	2.25	0.51
34:h:127:CYS:C	34:h:128:LEU:HD22	2.36	0.51
35:i:148:LEU:HD11	35:i:154:LYS:NZ	2.06	0.51
2:B:471:LYS:HG2	29:c:95:ARG:NH2	2.26	0.51
22:V:133:LEU:HD23	22:V:136:LYS:HE3	1.93	0.51
26:Z:534:LYS:O	26:Z:534:LYS:HG3	2.11	0.51
32:f:119:LEU:HD13	32:f:393:TYR:HE1	1.76	0.51
32:f:387:ILE:CG2	32:f:388:PRO:HD2	2.40	0.51
33:g:108:LEU:HD12	33:g:118:HIS:NE2	2.25	0.51
33:g:333:LEU:CD2	33:g:349:TYR:HD2	2.21	0.51
1:A:1348:LEU:O	1:A:1352:VAL:HG23	2.11	0.51
2:B:438:GLU:HG3	2:B:440:HIS:HB2	1.91	0.51
2:B:530:GLY:O	2:B:532:ALA:N	2.44	0.51
2:B:1008:PRO:HB3	2:B:1087:PHE:HE1	1.76	0.51
6:F:73:ALA:HB2	6:F:143:PHE:CZ	2.46	0.51
17:Q:106:ARG:NH2	17:Q:214:GLN:CG	2.61	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:421:GLU:N	25:Y:422:PRO:HD2	2.24	0.51
26:Z:476:PHE:CZ	26:Z:487:LEU:CD2	2.93	0.51
26:Z:638:ASN:C	26:Z:638:ASN:HD22	2.17	0.51
32:f:108:LYS:NZ	33:g:106:LEU:HD13	2.26	0.51
32:f:108:LYS:CE	32:f:386:MET:SD	2.98	0.51
38:l:59:DT:C3'	38:l:60:DT:H5'	2.41	0.51
1:A:343:LYS:HB2	2:B:1117:GLN:OE1	2.11	0.50
1:A:1444:MET:HE1	6:F:135:ARG:HB2	1.93	0.50
20:T:118:LEU:CG	23:W:129:PHE:HB3	2.40	0.50
25:Y:18:TYR:HB2	25:Y:19:PRO:HD2	1.90	0.50
25:Y:670:LEU:HD23	25:Y:672:GLY:H	1.76	0.50
26:Z:561:MET:C	27:a:450:ARG:NH1	2.58	0.50
31:e:64:GLY:HA3	31:e:83:CYS:HB3	1.93	0.50
34:h:44:LYS:HG2	34:h:54:LEU:CD2	2.41	0.50
34:h:52:THR:CB	35:i:237:LYS:CB	2.88	0.50
35:i:143:LEU:HD13	35:i:143:LEU:C	2.30	0.50
1:A:446:ARG:HD2	1:A:480:ALA:HB2	1.92	0.50
1:A:1095:THR:HG21	1:A:1112:LYS:HB2	1.93	0.50
2:B:449:ASN:HD22	29:c:135:MET:HG3	1.71	0.50
2:B:773:MET:CE	2:B:985:GLY:HA2	2.40	0.50
2:B:902:GLY:C	12:L:65:VAL:HG11	2.31	0.50
2:B:1201:LYS:HD3	2:B:1205:GLN:OE1	2.11	0.50
5:E:15:ALA:O	5:E:19:VAL:HG23	2.10	0.50
13:M:129:ARG:CA	13:M:134:THR:CB	2.89	0.50
17:Q:181:SER:HB2	17:Q:290:VAL:HG13	1.94	0.50
18:R:199:ASP:O	18:R:203:GLN:HG3	2.11	0.50
18:R:203:GLN:O	18:R:204:TYR:C	2.54	0.50
21:U:161:LEU:O	21:U:162:LEU:C	2.53	0.50
25:Y:37:ASN:C	25:Y:477:THR:OG1	2.54	0.50
25:Y:232:VAL:HG11	25:Y:234:PHE:CE1	2.46	0.50
26:Z:436:ALA:HB3	26:Z:452:LEU:HD21	1.93	0.50
26:Z:447:GLN:CG	26:Z:448:THR:H	2.20	0.50
26:Z:476:PHE:CD1	26:Z:487:LEU:CD1	2.94	0.50
32:f:408:GLU:O	32:f:412:ARG:HG3	2.11	0.50
35:i:232:VAL:HG13	35:i:233:LEU:N	2.26	0.50
36:j:65:PRO:HG2	36:j:224:TYR:CD1	2.46	0.50
36:j:153:THR:CG2	36:j:154:ASP:H	2.23	0.50
36:j:166:VAL:HG11	36:j:234:LEU:HD23	1.93	0.50
1:A:419:LYS:HA	17:Q:58:LEU:CD2	2.37	0.50
1:A:1444:MET:CE	6:F:135:ARG:NE	2.74	0.50
16:P:579:GLU:O	16:P:583:GLU:N	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:V:86:GLN:CA	22:V:89:THR:HG22	2.41	0.50
22:V:109:GLU:O	22:V:111:THR:HG23	2.11	0.50
25:Y:37:ASN:ND2	25:Y:477:THR:HG21	2.26	0.50
25:Y:252:LEU:HD11	25:Y:383:LEU:HG	1.92	0.50
25:Y:288:LYS:CG	25:Y:335:LEU:HD12	2.41	0.50
26:Z:466:ARG:CB	26:Z:477:LEU:CB	2.89	0.50
26:Z:467:SER:H	26:Z:477:LEU:HD23	1.70	0.50
32:f:123:SER:OG	33:g:131:ASN:HB2	2.12	0.50
32:f:137:VAL:HG21	32:f:352:MET:SD	2.49	0.50
36:j:224:TYR:O	36:j:228:GLU:HG2	2.11	0.50
38:l:45:DA:O5'	38:l:45:DA:H8	1.95	0.50
38:l:47:DC:H2'	38:l:48:DT:H71	1.92	0.50
16:P:390:ARG:CB	16:P:484:ASP:CB	2.89	0.50
18:R:18:THR:HA	18:R:21:LYS:HB3	1.93	0.50
25:Y:18:TYR:HB2	25:Y:19:PRO:HD3	1.90	0.50
25:Y:419:ILE:CD1	25:Y:435:MET:HE3	2.36	0.50
26:Z:305:GLU:OE1	26:Z:330:CYS:HA	2.11	0.50
26:Z:405:LYS:NZ	26:Z:483:GLY:HA3	2.27	0.50
30:d:236:GLU:HG3	30:d:237:ASP:N	2.21	0.50
35:i:184:TYR:HB2	35:i:222:ASN:CG	2.31	0.50
38:l:58:DG:N2	38:l:59:DT:C2	2.77	0.50
1:A:497:THR:CG2	2:B:1146:PHE:HD1	2.23	0.50
1:A:1442:ASP:HB2	6:F:135:ARG:HB3	1.92	0.50
2:B:211:VAL:HG13	2:B:495:LEU:HD23	1.94	0.50
13:M:167:PHE:O	13:M:168:LYS:CB	2.60	0.50
16:P:582:ARG:O	16:P:585:PRO:O	2.30	0.50
21:U:172:GLU:OE2	23:W:90:GLN:NE2	2.33	0.50
25:Y:229:ASP:CG	25:Y:452:ARG:O	2.55	0.50
25:Y:468:MET:HG2	25:Y:471:ARG:NH2	2.27	0.50
26:Z:303:ARG:CZ	26:Z:471:GLN:HG3	2.41	0.50
34:h:61:LEU:HB2	34:h:67:ILE:CD1	2.42	0.50
1:A:227:VAL:CG1	4:D:16:LYS:HE3	2.40	0.50
2:B:1135:ARG:HG2	2:B:1139:ILE:HD11	1.94	0.50
8:H:17:PRO:HB3	8:H:24:CYS:SG	2.52	0.50
19:S:103:GLN:O	19:S:104:ILE:C	2.54	0.50
20:T:62:ARG:HB3	20:T:66:ASN:ND2	2.26	0.50
25:Y:32:LEU:HD12	25:Y:61:MET:HG3	1.93	0.50
25:Y:42:MET:SD	25:Y:50:VAL:CG2	2.87	0.50
25:Y:352:ILE:H	25:Y:380:ARG:NH1	2.01	0.50
25:Y:353:SER:CB	25:Y:381:LEU:HA	2.40	0.50
26:Z:473:VAL:HG12	26:Z:481:GLU:HG3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:484:PHE:HD2	26:Z:509:ALA:HB3	1.73	0.50
26:Z:585:PRO:HG2	26:Z:756:ARG:NH1	2.22	0.50
33:g:340:VAL:O	33:g:340:VAL:HG13	2.11	0.50
35:i:140:LYS:HZ3	35:i:142:VAL:HG12	1.46	0.50
36:j:145:LYS:HA	36:j:145:LYS:CE	2.36	0.50
39:m:98:DG:H2''	39:m:99:DT:OP2	2.12	0.50
1:A:211:PHE:CE2	1:A:234:MET:CE	2.95	0.50
22:V:90:LEU:HD12	22:V:90:LEU:N	2.27	0.50
22:V:112:LYS:CG	22:V:113:ASP:N	2.75	0.50
24:X:96:GLU:CA	37:k:18:SER:O	2.57	0.50
25:Y:140:GLN:HB3	25:Y:143:ARG:HG2	1.93	0.50
25:Y:327:ARG:CG	25:Y:330:HIS:HE1	2.25	0.50
25:Y:639:LEU:HD12	25:Y:653:PHE:HE2	0.82	0.50
25:Y:670:LEU:HD23	25:Y:670:LEU:C	2.37	0.50
26:Z:350:PRO:HA	26:Z:481:GLU:O	2.12	0.50
36:j:190:PHE:CG	38:l:18:DA:C1'	2.95	0.50
2:B:60:GLN:OE1	2:B:95:ILE:HG22	2.12	0.50
2:B:701:ILE:HD11	2:B:703:ILE:HD11	1.94	0.50
2:B:705:MET:HE2	2:B:745:PRO:HB3	1.94	0.50
9:I:65:ASP:HB3	9:I:68:LEU:HD12	1.94	0.50
18:R:22:ASP:HA	18:R:25:SER:HB2	1.94	0.50
20:T:84:VAL:HG22	22:V:70:PHE:CZ	2.47	0.50
22:V:84:SER:H	22:V:87:LEU:CB	2.25	0.50
22:V:118:SER:O	22:V:122:TRP:HD1	1.95	0.50
25:Y:218:ILE:HG23	25:Y:219:ALA:N	2.27	0.50
32:f:375:LEU:CD1	33:g:134:VAL:HG21	2.42	0.50
33:g:127:LYS:H	33:g:127:LYS:HD3	1.76	0.50
34:h:125:PRO:CD	34:h:155:PRO:O	2.60	0.50
1:A:714:PHE:O	1:A:718:VAL:HG23	2.12	0.50
2:B:684:LEU:HA	2:B:689:LEU:HD12	1.93	0.50
12:L:27:LEU:HD13	12:L:37:LYS:HE2	1.94	0.50
13:M:13:SER:HA	13:M:16:TRP:CB	2.41	0.50
16:P:410:VAL:CB	16:P:501:ALA:C	2.84	0.50
17:Q:101:ASN:O	17:Q:103:ALA:N	2.44	0.50
17:Q:108:ILE:HD13	17:Q:159:GLU:CB	2.32	0.50
22:V:76:ILE:HG23	22:V:77:ARG:N	2.27	0.50
23:W:85:VAL:HG12	23:W:86:SER:O	2.11	0.50
25:Y:25:MET:HE3	25:Y:53:LEU:HD23	1.93	0.50
25:Y:51:SER:OG	25:Y:85:GLU:HG3	2.11	0.50
25:Y:59:TYR:CG	25:Y:62:HIS:CE1	2.99	0.50
25:Y:274:VAL:CG1	25:Y:275:ARG:H	2.20	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:353:SER:CA	25:Y:356:PRO:CD	2.90	0.50
26:Z:391:GLY:CA	26:Z:394:LEU:HD13	2.42	0.50
26:Z:403:ILE:HD13	26:Z:484:PHE:HD2	1.75	0.50
26:Z:403:ILE:CD1	26:Z:484:PHE:CD2	2.94	0.50
26:Z:424:PHE:HA	26:Z:427:TRP:CZ3	2.47	0.50
33:g:69:TRP:HZ3	33:g:71:VAL:CG2	2.24	0.50
38:l:16:DG:N2	39:m:151:DA:N1	2.60	0.50
1:A:245:PRO:O	2:B:1114:LEU:HD12	2.12	0.49
2:B:449:ASN:HD21	29:c:135:MET:HG3	1.75	0.49
2:B:899:ILE:HD11	2:B:911:ILE:HA	1.94	0.49
2:B:1072:MET:HB3	2:B:1081:LEU:HD12	1.94	0.49
3:C:116:LYS:HD3	3:C:140:ASN:HA	1.93	0.49
4:D:195:ILE:HG22	4:D:198:LEU:HG	1.94	0.49
14:N:109:LEU:O	14:N:112:THR:N	2.45	0.49
18:R:47:LYS:CE	18:R:47:LYS:H	2.25	0.49
21:U:83:TRP:CD1	21:U:83:TRP:N	2.80	0.49
22:V:117:LYS:HZ2	22:V:121:GLU:CG	2.00	0.49
25:Y:229:ASP:HA	25:Y:453:PHE:CB	2.31	0.49
25:Y:499:LYS:HD2	25:Y:522:TYR:CB	2.42	0.49
26:Z:335:TYR:CB	26:Z:336:PRO:HD3	2.42	0.49
26:Z:457:TYR:O	26:Z:477:LEU:HD21	2.12	0.49
26:Z:476:PHE:CE1	26:Z:487:LEU:HD11	2.46	0.49
26:Z:485:ILE:HG12	26:Z:510:LYS:HG2	1.93	0.49
32:f:374:VAL:HG11	33:g:75:MET:SD	2.52	0.49
33:g:118:HIS:HE1	33:g:120:TYR:HE2	0.64	0.49
33:g:307:PHE:CE2	33:g:349:TYR:OH	2.65	0.49
34:h:50:ASN:ND2	35:i:246:TYR:CD2	2.80	0.49
2:B:70:ILE:HG22	2:B:89:GLU:HG2	1.93	0.49
2:B:338:GLY:HA2	2:B:339:THR:HB	1.93	0.49
2:B:433:GLN:CD	32:f:326:ARG:NE	2.63	0.49
2:B:1184:GLY:C	4:D:17:LYS:NZ	2.69	0.49
3:C:99:LEU:HB2	3:C:157:CYS:HB2	1.94	0.49
3:C:114:TYR:HB2	3:C:116:LYS:HG2	1.94	0.49
13:M:189:TYR:C	13:M:191:LEU:H	2.21	0.49
20:T:43:TYR:CE2	22:V:102:LYS:HD2	2.47	0.49
22:V:76:ILE:CD1	22:V:97:ARG:HB2	2.36	0.49
25:Y:252:LEU:CD1	25:Y:383:LEU:HG	2.42	0.49
25:Y:540:PHE:HB2	25:Y:622:MET:SD	2.52	0.49
26:Z:406:SER:CB	26:Z:482:TRP:CE3	2.94	0.49
26:Z:406:SER:HA	26:Z:447:GLN:C	2.37	0.49
26:Z:407:VAL:HG13	26:Z:451:GLY:CA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:723:GLN:O	26:Z:727:VAL:HG22	2.12	0.49
33:g:59:LEU:HD21	33:g:214:ILE:CG1	2.41	0.49
34:h:28:VAL:HG21	34:h:57:LEU:CB	2.42	0.49
34:h:64:ASP:HB2	34:h:66:LEU:HD23	1.94	0.49
35:i:231:LEU:CB	35:i:232:VAL:HG12	2.42	0.49
36:j:114:LEU:CD2	39:m:143:DT:C2'	2.82	0.49
36:j:124:THR:CG2	39:m:144:DT:O2	2.45	0.49
1:A:61:ILE:HD12	1:A:61:ILE:O	2.12	0.49
1:A:418:SER:N	29:c:49:GLY:HA3	2.28	0.49
1:A:418:SER:OG	29:c:48:CYS:O	2.25	0.49
1:A:1312:ASN:O	1:A:1316:VAL:HG23	2.12	0.49
2:B:433:GLN:CB	32:f:326:ARG:NE	2.76	0.49
25:Y:569:ILE:HG21	25:Y:571:VAL:HG22	1.91	0.49
26:Z:328:LYS:HE3	26:Z:329:ARG:HE	1.77	0.49
26:Z:331:GLN:NE2	26:Z:378:ARG:HD2	2.22	0.49
26:Z:474:MET:CB	26:Z:482:TRP:H	2.03	0.49
32:f:138:ARG:NH1	33:g:57:LEU:HB3	2.18	0.49
33:g:94:LYS:O	33:g:106:LEU:HD12	2.12	0.49
33:g:333:LEU:CB	33:g:337:ALA:HB3	2.42	0.49
35:i:134:TYR:CD2	35:i:147:LEU:HD23	2.47	0.49
38:l:56:DG:H1'	38:l:57:DT:C5'	2.35	0.49
38:l:58:DG:H2''	38:l:59:DT:H5'	1.92	0.49
4:D:161:GLY:O	4:D:165:GLN:NE2	2.46	0.49
7:G:1:MET:CG	7:G:2:PHE:N	2.76	0.49
17:Q:87:PHE:CZ	17:Q:220:VAL:HG21	2.48	0.49
18:R:47:LYS:H	18:R:47:LYS:HZ3	1.60	0.49
25:Y:54:SER:O	25:Y:57:ILE:CG2	2.57	0.49
25:Y:141:ALA:O	25:Y:145:LEU:HD23	2.12	0.49
25:Y:233:ILE:HA	25:Y:457:ILE:HB	1.94	0.49
25:Y:245:ILE:CG2	25:Y:439:CYS:O	2.48	0.49
25:Y:528:GLU:O	25:Y:532:ILE:CG1	2.53	0.49
25:Y:666:LEU:HD13	25:Y:666:LEU:C	2.37	0.49
25:Y:681:LEU:HD21	25:Y:696:TRP:CZ3	2.46	0.49
26:Z:490:VAL:CG2	26:Z:531:ILE:HD13	2.43	0.49
32:f:118:LEU:CD2	33:g:136:THR:HG21	2.40	0.49
32:f:140:HIS:H	32:f:349:PRO:HD2	1.77	0.49
34:h:27:LEU:CD2	34:h:129:THR:HB	2.42	0.49
35:i:193:LEU:CD1	35:i:214:TRP:CH2	2.95	0.49
1:A:89:PRO:HB2	1:A:204:THR:HB	1.94	0.49
6:F:97:ARG:NH1	7:G:15:PRO:CB	2.76	0.49
13:M:166:ILE:O	13:M:170:VAL:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:120:PRO:O	14:N:122:VAL:N	2.45	0.49
22:V:88:GLU:HA	22:V:91:THR:HG22	1.94	0.49
25:Y:129:VAL:CG1	25:Y:194:PHE:CE1	2.96	0.49
25:Y:218:ILE:CD1	25:Y:221:ARG:HH21	2.24	0.49
25:Y:357:LYS:CG	25:Y:376:PHE:CD1	2.95	0.49
25:Y:450:PHE:CZ	25:Y:475:PHE:CG	3.01	0.49
25:Y:495:MET:HG2	25:Y:686:PHE:CD1	2.44	0.49
25:Y:666:LEU:HD23	25:Y:679:MET:CB	2.42	0.49
26:Z:300:ASP:CG	26:Z:480:ARG:HD3	2.37	0.49
26:Z:494:PRO:HD3	26:Z:527:LEU:HD21	1.94	0.49
32:f:103:LEU:HD22	33:g:98:ASN:HB2	1.92	0.49
32:f:134:HIS:CB	32:f:352:MET:CE	2.90	0.49
32:f:378:VAL:HG22	32:f:384:PHE:CZ	2.47	0.49
33:g:333:LEU:O	33:g:337:ALA:CA	2.60	0.49
1:A:193:ASP:HA	39:m:117:DG:OP1	2.12	0.49
2:B:35:SER:HA	2:B:811:TYR:HE1	1.76	0.49
6:F:92:ARG:HH21	7:G:63:PRO:CA	2.24	0.49
17:Q:108:ILE:O	17:Q:109:LEU:CB	2.60	0.49
20:T:100:ILE:HG13	20:T:101:ASP:H	1.77	0.49
20:T:122:HIS:CB	23:W:130:VAL:C	2.62	0.49
22:V:140:LEU:C	22:V:140:LEU:CD2	2.85	0.49
25:Y:499:LYS:HD3	25:Y:521:ASN:CB	2.43	0.49
26:Z:609:SER:OG	26:Z:615:LEU:HD13	2.13	0.49
33:g:314:SER:CB	33:g:347:PHE:O	2.60	0.49
34:h:123:MET:SD	34:h:130:LYS:CD	3.00	0.49
35:i:234:ARG:NE	35:i:247:ASN:OD1	2.45	0.49
1:A:12:ARG:O	2:B:1194:ILE:HG22	2.12	0.49
2:B:806:THR:HB	2:B:809:MET:HG3	1.94	0.49
3:C:75:MET:HB3	3:C:128:ASN:HB3	1.95	0.49
16:P:238:MET:C	16:P:240:SER:N	2.71	0.49
16:P:348:TYR:O	16:P:349:LYS:CB	2.60	0.49
25:Y:54:SER:C	25:Y:57:ILE:HG22	2.37	0.49
25:Y:273:GLU:CG	25:Y:274:VAL:N	2.76	0.49
25:Y:342:LEU:HD13	25:Y:346:MET:HE2	1.94	0.49
25:Y:438:THR:HG21	25:Y:634:ILE:CG2	2.42	0.49
25:Y:537:MET:HE2	25:Y:597:ILE:HG12	1.94	0.49
26:Z:305:GLU:HB2	26:Z:327:LYS:HZ1	1.78	0.49
26:Z:474:MET:HG3	26:Z:505:ILE:CG2	2.43	0.49
31:e:38:MET:HE2	31:e:41:LEU:HD23	1.95	0.49
34:h:13:LEU:HD21	34:h:91:TYR:HE1	1.76	0.49
35:i:179:LYS:HD3	35:i:179:LYS:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:j:118:SER:OG	38:l:24:DT:H4'	2.12	0.49
36:j:175:LEU:O	36:j:175:LEU:HD23	2.13	0.49
38:l:47:DC:C6	38:l:48:DT:H71	2.48	0.49
1:A:78:PRO:C	2:B:1201:LYS:NZ	2.69	0.49
2:B:710:LEU:HA	2:B:733:HIS:HB3	1.93	0.49
6:F:100:GLN:CD	7:G:15:PRO:HG2	2.38	0.49
12:L:49:LYS:O	12:L:50:ASP:CB	2.60	0.49
14:N:24:ASP:O	14:N:25:PHE:CB	2.60	0.49
20:T:46:LEU:HD12	20:T:80:LEU:HD13	1.94	0.49
22:V:113:ASP:C	22:V:114:LEU:CD1	2.86	0.49
25:Y:200:ILE:C	25:Y:226:VAL:CB	2.85	0.49
25:Y:493:LEU:HD11	25:Y:666:LEU:HD21	1.94	0.49
26:Z:476:PHE:N	26:Z:485:ILE:HG22	2.28	0.49
34:h:156:LEU:HD23	34:h:156:LEU:N	2.26	0.49
36:j:190:PHE:CG	38:l:18:DA:C4	2.98	0.49
1:A:40:THR:HG21	1:A:259:GLU:OE2	2.12	0.49
1:A:919:ILE:HG12	1:A:983:ILE:HD13	1.94	0.49
2:B:693:ILE:HG21	2:B:701:ILE:HD13	1.95	0.49
2:B:846:ILE:HG23	2:B:974:PRO:CG	2.41	0.49
3:C:87:PHE:HE1	18:R:120:GLN:NE2	2.11	0.49
12:L:48:CYS:SG	12:L:49:LYS:N	2.85	0.49
20:T:93:ILE:HD13	22:V:122:TRP:CD2	2.47	0.49
20:T:122:HIS:HA	23:W:130:VAL:HG13	1.51	0.49
21:U:73:ASN:C	21:U:75:GLN:H	2.21	0.49
25:Y:28:ILE:HG22	25:Y:57:ILE:HD11	1.81	0.49
25:Y:495:MET:CG	25:Y:686:PHE:CD1	2.93	0.49
26:Z:380:ARG:CB	26:Z:535:LEU:HD22	2.43	0.49
26:Z:474:MET:HB2	26:Z:479:GLY:C	2.36	0.49
34:h:141:ASN:HD21	34:h:148:LEU:HD13	1.65	0.49
38:l:52:DA:H1'	38:l:53:DT:H5'	1.93	0.49
1:A:285:PRO:O	1:A:287:HIS:N	2.46	0.49
1:A:1402:PHE:CE1	1:A:1403:GLU:HG3	2.48	0.49
16:P:566:VAL:C	16:P:569:ILE:H	2.21	0.49
18:R:178:ARG:HA	18:R:180:LYS:HE2	1.95	0.49
20:T:94:TYR:CE2	22:V:109:GLU:CB	2.95	0.49
22:V:117:LYS:CG	22:V:121:GLU:CB	2.77	0.49
23:W:63:SER:O	23:W:67:ILE:HG13	2.13	0.49
25:Y:253:THR:HG22	25:Y:434:ILE:CB	2.42	0.49
25:Y:450:PHE:CE1	25:Y:475:PHE:CD2	3.00	0.49
26:Z:408:ILE:HG23	26:Z:485:ILE:HA	1.94	0.49
26:Z:408:ILE:HG22	26:Z:484:PHE:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:d:46:LEU:HD21	31:e:15:ILE:HA	1.94	0.49
32:f:341:LYS:HA	32:f:413:MET:SD	2.53	0.49
32:f:348:TYR:CE2	32:f:393:TYR:CE1	2.97	0.49
34:h:44:LYS:HE3	34:h:54:LEU:CD1	2.42	0.49
36:j:114:LEU:HD13	39:m:143:DT:H3	1.74	0.49
1:A:154:SER:HB3	1:A:162:VAL:HG23	1.95	0.48
1:A:568:PRO:HG2	8:H:46:LEU:HD12	1.95	0.48
2:B:451:LYS:NZ	29:c:147:LYS:NZ	2.61	0.48
7:G:142:ARG:HB3	7:G:171:ILE:HD12	1.95	0.48
25:Y:135:ARG:CZ	25:Y:143:ARG:NE	2.53	0.48
25:Y:269:GLU:CG	25:Y:277:VAL:CG1	2.86	0.48
25:Y:421:GLU:N	25:Y:422:PRO:HD3	2.27	0.48
26:Z:447:GLN:HG3	26:Z:448:THR:H	1.78	0.48
32:f:145:ARG:CB	32:f:341:LYS:HZ1	2.07	0.48
33:g:333:LEU:HD21	33:g:349:TYR:CE2	2.48	0.48
34:h:30:ASP:OD2	34:h:151:LEU:CD1	2.61	0.48
34:h:144:ARG:O	34:h:145:THR:CB	2.61	0.48
35:i:233:LEU:C	35:i:233:LEU:CD2	2.86	0.48
1:A:132:LYS:HZ2	1:A:1415:SER:HB3	1.78	0.48
1:A:216:VAL:O	1:A:220:THR:HB	2.12	0.48
1:A:1193:LEU:HB2	1:A:1260:LEU:CD2	2.42	0.48
2:B:574:SER:HB3	2:B:591:ARG:HE	1.77	0.48
2:B:640:VAL:HG22	2:B:651:LEU:HG	1.95	0.48
7:G:85:GLU:HB3	7:G:147:ILE:HD12	1.96	0.48
17:Q:11:ILE:HG12	17:Q:19:LEU:CD2	2.43	0.48
17:Q:61:PRO:CG	17:Q:300:VAL:CG2	2.87	0.48
17:Q:256:TYR:C	17:Q:257:ILE:HG13	2.37	0.48
20:T:39:LYS:HD3	22:V:115:LEU:HA	1.95	0.48
21:U:114:TYR:O	21:U:117:GLN:HB2	2.14	0.48
21:U:114:TYR:O	21:U:117:GLN:N	2.46	0.48
22:V:66:ILE:N	22:V:67:PRO:HD2	2.27	0.48
25:Y:463:ILE:HD11	25:Y:469:TYR:CE1	2.48	0.48
25:Y:464:SER:HA	25:Y:466:LEU:HD22	1.94	0.48
26:Z:299:GLY:C	26:Z:347:HIS:HB3	2.38	0.48
26:Z:313:VAL:HG12	26:Z:314:HIS:CE1	2.48	0.48
26:Z:404:LYS:HA	26:Z:448:THR:HG21	1.94	0.48
26:Z:411:CYS:HG	26:Z:420:TRP:CD1	2.32	0.48
26:Z:447:GLN:HG3	26:Z:448:THR:N	2.28	0.48
26:Z:516:THR:HG23	26:Z:681:ARG:HE	1.77	0.48
31:e:74:ASP:OD2	31:e:117:ASN:HB2	2.13	0.48
32:f:374:VAL:HG21	33:g:73:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:13:LEU:CD2	34:h:91:TYR:CE1	2.96	0.48
35:i:160:ILE:HD12	35:i:161:GLU:HB2	1.95	0.48
35:i:181:LEU:C	35:i:181:LEU:CD2	2.86	0.48
35:i:224:LEU:C	35:i:224:LEU:CD1	2.86	0.48
36:j:164:CYS:HB2	36:j:212:ILE:HB	1.95	0.48
36:j:194:ILE:HG12	38:l:19:DT:H5"	1.95	0.48
37:k:14:SER:HB3	37:k:15:PRO:HD2	1.95	0.48
2:B:542:MET:HG3	2:B:747:MET:HB3	1.95	0.48
2:B:705:MET:H	2:B:710:LEU:HD12	1.79	0.48
12:L:46:VAL:CG1	12:L:56:LEU:HD12	2.43	0.48
14:N:98:LEU:HA	16:P:252:SER:HA	1.96	0.48
17:Q:61:PRO:CG	17:Q:300:VAL:HG21	2.38	0.48
17:Q:232:LEU:HD21	17:Q:253:LEU:HD13	1.94	0.48
20:T:122:HIS:CA	23:W:131:ASP:O	2.62	0.48
21:U:138:SER:O	21:U:139:ILE:HG13	2.13	0.48
22:V:82:ASN:N	22:V:86:GLN:HE22	2.10	0.48
25:Y:273:GLU:O	25:Y:274:VAL:C	2.56	0.48
25:Y:357:LYS:HG3	25:Y:376:PHE:CD1	2.48	0.48
32:f:127:ILE:HD13	32:f:361:TRP:CZ3	2.48	0.48
32:f:347:PHE:HE1	32:f:364:SER:CB	2.26	0.48
33:g:73:LEU:HD23	33:g:73:LEU:N	2.29	0.48
33:g:126:LYS:HB3	33:g:128:VAL:HG23	1.93	0.48
33:g:353:PRO:HG3	35:i:126:SER:CB	2.42	0.48
34:h:44:LYS:HE3	34:h:54:LEU:CD2	2.43	0.48
34:h:138:GLN:HG3	34:h:139:LEU:N	2.28	0.48
35:i:151:LEU:HD22	35:i:153:MET:HE2	1.96	0.48
1:A:52:GLY:O	1:A:56:PRO:HG3	2.13	0.48
1:A:253:ASN:C	1:A:255:SER:H	2.22	0.48
1:A:353:ILE:HG21	1:A:487:MET:HE3	1.96	0.48
1:A:418:SER:HA	29:c:49:GLY:N	2.27	0.48
1:A:1279:ILE:HG23	1:A:1308:THR:HG23	1.96	0.48
1:A:1436:ILE:CD1	1:A:1436:ILE:C	2.86	0.48
18:R:29:LEU:HB3	18:R:131:ILE:O	2.13	0.48
20:T:55:LYS:HE3	20:T:62:ARG:NE	2.28	0.48
22:V:76:ILE:HD13	22:V:97:ARG:HB3	1.93	0.48
25:Y:127:THR:HG23	25:Y:361:GLN:NE2	2.28	0.48
25:Y:230:SER:O	25:Y:455:SER:N	2.46	0.48
25:Y:352:ILE:CG2	25:Y:380:ARG:CD	2.91	0.48
25:Y:492:PHE:HE2	25:Y:707:ASN:OD1	1.86	0.48
26:Z:508:HIS:CE1	26:Z:509:ALA:HB2	2.48	0.48
34:h:17:VAL:HG12	34:h:66:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:PHE:H	2:B:1107:ALA:HA	1.77	0.48
1:A:929:LEU:HD21	1:A:983:ILE:HG21	1.96	0.48
3:C:47:ASP:C	12:L:69:ALA:HB2	2.37	0.48
11:K:63:VAL:HG12	11:K:71:PHE:HB3	1.96	0.48
14:N:106:HIS:C	14:N:108:SER:H	2.20	0.48
17:Q:13:ASP:OD1	17:Q:250:GLY:HA2	2.13	0.48
17:Q:217:THR:HB	17:Q:235:ILE:HG12	1.96	0.48
25:Y:20:GLU:O	25:Y:24:TYR:CG	2.66	0.48
25:Y:36:GLY:O	25:Y:456:VAL:HG23	2.13	0.48
25:Y:37:ASN:CB	25:Y:456:VAL:CG1	2.83	0.48
25:Y:495:MET:SD	25:Y:696:TRP:CZ3	3.03	0.48
25:Y:603:ARG:HH22	25:Y:629:TYR:HH	1.60	0.48
25:Y:631:GLU:N	25:Y:636:LYS:HE3	2.27	0.48
26:Z:373:MET:HE2	26:Z:511:LEU:HD11	1.96	0.48
26:Z:420:TRP:HB3	26:Z:424:PHE:CZ	2.48	0.48
26:Z:466:ARG:HD2	26:Z:475:ASP:CG	2.39	0.48
26:Z:656:LYS:CD	26:Z:656:LYS:C	2.86	0.48
34:h:126:ILE:HG13	34:h:154:GLU:CD	2.26	0.48
35:i:142:VAL:HG22	35:i:147:LEU:CD1	2.43	0.48
36:j:112:THR:HG21	39:m:144:DT:H4'	1.95	0.48
36:j:141:ARG:HH12	36:j:144:GLN:NE2	2.11	0.48
1:A:7:SER:HG	2:B:1161:HIS:CE1	2.24	0.48
1:A:280:GLU:HG2	1:A:289:ILE:HD13	1.95	0.48
1:A:1447:GLU:HB3	7:G:22:MET:SD	2.53	0.48
2:B:351:TYR:HE1	2:B:355:ILE:HD12	1.78	0.48
2:B:451:LYS:NZ	29:c:138:ASP:OD2	2.40	0.48
6:F:96:THR:HG1	7:G:64:THR:C	2.04	0.48
18:R:200:LEU:HD22	18:R:200:LEU:C	2.39	0.48
25:Y:327:ARG:NH2	25:Y:330:HIS:NE2	2.60	0.48
25:Y:327:ARG:NH2	25:Y:330:HIS:CE1	2.81	0.48
25:Y:539:VAL:HG11	25:Y:623:ILE:CG1	2.44	0.48
26:Z:305:GLU:HB2	26:Z:327:LYS:CE	2.43	0.48
26:Z:412:THR:HG22	39:m:104:DA:OP1	2.13	0.48
26:Z:474:MET:HG2	26:Z:482:TRP:O	2.13	0.48
26:Z:476:PHE:CE1	26:Z:487:LEU:CD2	2.94	0.48
26:Z:518:VAL:HG12	26:Z:519:ARG:N	2.29	0.48
29:c:72:ASN:ND2	29:c:74:ASP:OD2	2.47	0.48
31:e:23:LEU:HD23	31:e:41:LEU:HD13	1.96	0.48
32:f:134:HIS:CE1	32:f:352:MET:HE2	2.44	0.48
34:h:95:ILE:O	34:h:95:ILE:HG12	2.12	0.48
35:i:193:LEU:CD2	35:i:193:LEU:N	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:j:194:ILE:HD13	38:l:19:DT:OP1	2.13	0.48
2:B:219:ALA:HB2	2:B:405:ARG:HG2	1.95	0.48
2:B:345:LYS:HA	2:B:348:ARG:HD2	1.96	0.48
7:G:60:ARG:CZ	7:G:69:GLU:OE1	2.52	0.48
22:V:112:LYS:O	22:V:113:ASP:CB	2.61	0.48
24:X:96:GLU:HG2	37:k:18:SER:C	2.39	0.48
25:Y:352:ILE:HG13	25:Y:380:ARG:NH2	2.26	0.48
25:Y:353:SER:OG	25:Y:381:LEU:CB	2.59	0.48
25:Y:495:MET:CB	25:Y:686:PHE:CZ	2.93	0.48
25:Y:571:VAL:HG12	25:Y:572:GLU:HB2	1.95	0.48
26:Z:394:LEU:H	26:Z:394:LEU:CD1	2.27	0.48
26:Z:522:ASP:HA	26:Z:524:ILE:HD12	1.93	0.48
32:f:135:LEU:HB3	32:f:136:PRO:HD3	1.89	0.48
33:g:333:LEU:CD2	33:g:349:TYR:CE2	2.96	0.48
35:i:207:CYS:HG	35:i:208:LYS:CE	2.22	0.48
36:j:114:LEU:CD2	39:m:143:DT:O2	2.62	0.48
1:A:36:ARG:NH2	1:A:57:ARG:HH22	2.12	0.48
1:A:1116:LEU:HG	1:A:1327:ILE:HD11	1.95	0.48
1:A:1444:MET:SD	6:F:135:ARG:HB2	2.54	0.48
2:B:1113:VAL:HG22	29:c:57:VAL:HG11	1.96	0.48
8:H:80:ARG:HG2	11:K:57:LEU:HD22	1.95	0.48
14:N:204:PHE:HA	14:N:209:GLU:O	2.13	0.48
20:T:103:ASP:O	20:T:107:LEU:HG	2.14	0.48
25:Y:71:TYR:CE2	25:Y:233:ILE:HD13	2.48	0.48
25:Y:108:LEU:HD12	25:Y:196:VAL:HG11	1.95	0.48
26:Z:348:ARG:HB3	26:Z:350:PRO:HD3	1.96	0.48
26:Z:367:GLU:OE1	26:Z:367:GLU:HA	2.14	0.48
32:f:134:HIS:HB3	32:f:352:MET:HE1	1.95	0.48
32:f:151:LEU:CD2	32:f:336:ASP:OD1	2.43	0.48
33:g:105:THR:HA	33:g:122:LEU:HD13	1.95	0.48
33:g:307:PHE:C	35:i:133:GLU:OE2	2.53	0.48
34:h:69:ILE:HG22	34:h:70:HIS:N	2.28	0.48
35:i:141:PRO:O	35:i:142:VAL:HG12	2.14	0.48
39:m:145:DA:H2'	39:m:146:DT:C5	2.49	0.48
1:A:1436:ILE:HD11	2:B:1144:ALA:HA	1.94	0.48
18:R:120:GLN:CD	18:R:122:ILE:HD11	2.39	0.48
25:Y:273:GLU:HG2	25:Y:274:VAL:H	1.77	0.48
26:Z:407:VAL:HG22	26:Z:451:GLY:CA	2.44	0.48
26:Z:446:PHE:CA	26:Z:452:LEU:HD22	2.43	0.48
26:Z:494:PRO:HG3	26:Z:527:LEU:HD21	1.94	0.48
32:f:102:PRO:HD2	33:g:99:LYS:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:h:45:GLN:HB2	35:i:202:PHE:CE1	2.46	0.48
1:A:11:LEU:HA	2:B:1193:GLN:HG2	1.95	0.48
1:A:875:ALA:HB2	1:A:1366:ARG:HD2	1.95	0.48
2:B:473:MET:SD	29:c:72:ASN:OD1	2.72	0.48
12:L:27:LEU:HD23	12:L:27:LEU:N	2.29	0.48
17:Q:109:LEU:HG	17:Q:110:HIS:H	1.79	0.48
19:S:103:GLN:C	19:S:105:GLU:N	2.72	0.48
22:V:147:LEU:O	22:V:147:LEU:HD23	2.13	0.48
25:Y:120:VAL:HG22	25:Y:121:SER:N	2.29	0.48
25:Y:571:VAL:HG12	25:Y:572:GLU:HG3	1.94	0.48
26:Z:383:ILE:C	26:Z:384:ILE:HD12	2.39	0.48
32:f:136:PRO:HG2	32:f:353:GLU:HA	1.95	0.48
33:g:342:LYS:O	33:g:343:GLY:C	2.55	0.48
36:j:211:LYS:HG2	39:m:148:DT:H4'	1.95	0.48
38:l:60:DT:OP2	38:l:60:DT:H3'	2.13	0.48
1:A:261:ASP:HB3	1:A:322:VAL:HG13	1.95	0.47
1:A:579:SER:HA	1:A:582:ILE:HG13	1.96	0.47
2:B:62:ILE:HG21	2:B:417:PHE:HD2	1.78	0.47
6:F:97:ARG:HH12	7:G:15:PRO:CB	2.26	0.47
17:Q:158:ASN:C	17:Q:159:GLU:HG3	2.39	0.47
25:Y:499:LYS:NZ	25:Y:521:ASN:O	2.45	0.47
25:Y:539:VAL:HG13	25:Y:623:ILE:HG12	1.92	0.47
25:Y:708:LEU:HD23	25:Y:708:LEU:C	2.39	0.47
26:Z:352:LEU:H	26:Z:352:LEU:CD2	2.25	0.47
26:Z:408:ILE:CG1	26:Z:475:ASP:HB3	2.21	0.47
26:Z:424:PHE:CE1	26:Z:451:GLY:N	2.82	0.47
34:h:135:GLU:O	34:h:138:GLN:HG3	2.14	0.47
34:h:139:LEU:O	34:h:147:PHE:HA	2.14	0.47
34:h:156:LEU:C	34:h:157:VAL:HG23	2.38	0.47
36:j:79:ARG:NH2	38:l:25:DA:OP2	2.30	0.47
1:A:71:GLN:O	1:A:73:GLY:N	2.47	0.47
1:A:475:THR:HG21	2:B:836:GLU:OE2	2.14	0.47
2:B:441:ASP:O	2:B:443:ASN:N	2.47	0.47
2:B:486:TYR:HB3	2:B:1096:ARG:NE	2.28	0.47
2:B:849:GLY:HA2	2:B:852:ARG:CD	2.40	0.47
20:T:87:LEU:HG	20:T:87:LEU:O	2.13	0.47
25:Y:171:LEU:CD2	25:Y:181:LEU:HD22	2.43	0.47
25:Y:200:ILE:HG13	25:Y:201:SER:N	2.29	0.47
25:Y:253:THR:HG22	25:Y:434:ILE:HG12	1.95	0.47
25:Y:346:MET:CA	25:Y:384:LEU:CD2	2.88	0.47
25:Y:492:PHE:HB3	25:Y:678:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:494:PRO:HA	25:Y:697:ILE:O	2.15	0.47
25:Y:621:LEU:HG	25:Y:680:VAL:HG12	1.96	0.47
25:Y:639:LEU:HD23	25:Y:639:LEU:C	2.39	0.47
25:Y:693:LEU:HG	25:Y:696:TRP:CE2	2.48	0.47
26:Z:307:ASP:HB2	26:Z:323:VAL:CB	2.36	0.47
26:Z:445:MET:SD	26:Z:473:VAL:HG11	2.54	0.47
26:Z:477:LEU:HD12	26:Z:477:LEU:N	2.28	0.47
26:Z:516:THR:CG2	26:Z:681:ARG:HE	2.26	0.47
26:Z:696:ARG:CZ	26:Z:704:PHE:HZ	2.26	0.47
32:f:376:LEU:CG	33:g:73:LEU:CD2	2.76	0.47
34:h:52:THR:HB	35:i:237:LYS:CB	2.44	0.47
34:h:148:LEU:O	34:h:149:CYS:O	2.31	0.47
1:A:738:LYS:HA	8:H:19:ARG:HH12	1.79	0.47
1:A:956:LEU:HD21	1:A:1017:LEU:HG	1.96	0.47
2:B:249:ARG:NH1	2:B:418:LYS:CD	2.76	0.47
16:P:240:SER:CA	37:k:6:THR:HB	2.34	0.47
17:Q:40:VAL:HG21	17:Q:213:PHE:CZ	2.49	0.47
21:U:166:ARG:HA	21:U:169:GLN:HB3	1.97	0.47
21:U:169:GLN:HE21	23:W:5:LEU:H	1.62	0.47
25:Y:51:SER:O	25:Y:55:LEU:HG	2.14	0.47
25:Y:68:LYS:CE	25:Y:228:LYS:CE	2.87	0.47
25:Y:108:LEU:HA	25:Y:196:VAL:HG11	1.96	0.47
25:Y:631:GLU:HG2	25:Y:636:LYS:HZ1	1.80	0.47
26:Z:446:PHE:CB	26:Z:452:LEU:CD1	2.93	0.47
26:Z:487:LEU:HD21	26:Z:531:ILE:CD1	2.44	0.47
33:g:63:ARG:HD2	33:g:215:VAL:O	2.14	0.47
34:h:47:LEU:HD22	34:h:130:LYS:HB2	1.96	0.47
34:h:135:GLU:O	34:h:138:GLN:CG	2.62	0.47
35:i:231:LEU:CD2	35:i:232:VAL:CG1	2.86	0.47
36:j:183:SER:CB	36:j:193:LEU:HD21	2.43	0.47
38:l:59:DT:H1'	38:l:60:DT:C5'	2.43	0.47
1:A:257:ARG:HB2	1:A:257:ARG:NH1	2.29	0.47
1:A:457:ALA:HB3	1:A:506:ALA:HA	1.97	0.47
2:B:800:GLN:HB2	2:B:821:GLN:HA	1.96	0.47
25:Y:328:ALA:CA	25:Y:417:LEU:CD2	2.72	0.47
26:Z:310:ILE:HG21	26:Z:313:VAL:CG2	2.44	0.47
26:Z:384:ILE:HD12	26:Z:384:ILE:N	2.30	0.47
26:Z:410:LEU:HD21	26:Z:457:TYR:CE2	2.48	0.47
26:Z:434:ASN:O	26:Z:452:LEU:HD12	2.15	0.47
30:d:250:LYS:HE2	30:d:252:THR:CG2	2.44	0.47
32:f:127:ILE:CG2	32:f:127:ILE:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:SER:O	1:A:279:LEU:HD12	2.14	0.47
1:A:419:LYS:HE3	29:c:48:CYS:CA	2.44	0.47
2:B:122:LEU:HD22	2:B:958:GLN:HG2	1.96	0.47
2:B:977:GLY:HA3	2:B:1099:VAL:HB	1.95	0.47
25:Y:350:HIS:N	25:Y:384:LEU:HG	2.29	0.47
25:Y:571:VAL:O	25:Y:574:PRO:HD3	2.14	0.47
26:Z:372:LYS:O	26:Z:535:LEU:HD23	2.14	0.47
26:Z:519:ARG:N	26:Z:524:ILE:HG21	2.29	0.47
32:f:115:ARG:HB3	33:g:139:ASN:OD1	2.14	0.47
32:f:386:MET:HE2	33:g:75:MET:SD	2.53	0.47
34:h:37:VAL:CG1	34:h:88:TYR:HB2	2.44	0.47
34:h:134:LEU:HG	34:h:135:GLU:N	2.29	0.47
35:i:203:LYS:HE2	35:i:234:ARG:CZ	2.44	0.47
2:B:258:LEU:HB2	2:B:385:LEU:HD21	1.96	0.47
2:B:904:ARG:NH1	12:L:66:GLN:O	2.42	0.47
4:D:8:PHE:HZ	4:D:37:GLN:NE2	2.13	0.47
6:F:92:ARG:HE	7:G:64:THR:HA	1.73	0.47
8:H:40:LEU:HD13	8:H:123:MET:HG3	1.95	0.47
20:T:102:LYS:HE2	20:T:102:LYS:HA	1.97	0.47
21:U:165:TYR:HE2	23:W:80:LEU:CD2	2.27	0.47
22:V:112:LYS:HD2	22:V:119:PRO:HG3	1.95	0.47
24:X:21:THR:CG2	24:X:22:ARG:N	2.77	0.47
25:Y:111:ARG:NH2	25:Y:197:ARG:HH12	2.11	0.47
34:h:151:LEU:CD2	34:h:151:LEU:C	2.87	0.47
35:i:191:GLU:CG	35:i:230:ILE:HD11	2.26	0.47
38:l:60:DT:C2'	38:l:61:DG:C8	2.88	0.47
1:A:93:VAL:HG13	1:A:301:ALA:HB1	1.97	0.47
1:A:227:VAL:CG1	4:D:16:LYS:CE	2.92	0.47
1:A:1345:ARG:HG3	1:A:1376:THR:HG21	1.96	0.47
1:A:1444:MET:CE	6:F:135:ARG:HE	2.27	0.47
1:A:1450:LEU:CB	7:G:18:PHE:O	2.46	0.47
2:B:756:ILE:O	2:B:759:PRO:HD3	2.15	0.47
3:C:38:ILE:HG13	3:C:176:ILE:HD12	1.95	0.47
5:E:176:PRO:O	5:E:212:ARG:HA	2.14	0.47
6:F:106:PRO:HB2	7:G:16:SER:HA	1.89	0.47
8:H:23:VAL:HG11	8:H:121:LEU:HD22	1.95	0.47
8:H:115:TYR:CE1	8:H:124:ARG:HG3	2.49	0.47
10:J:9:SER:HB2	10:J:45:CYS:HB2	1.95	0.47
16:P:341:TYR:CB	16:P:353:GLY:HA2	2.44	0.47
16:P:596:ILE:O	16:P:600:ASN:CB	2.63	0.47
17:Q:82:ASP:CG	17:Q:83:LYS:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:259:VAL:HG21	17:Q:268:ILE:HD11	1.96	0.47
18:R:54:SER:OG	18:R:74:ASP:OD1	2.31	0.47
18:R:142:LEU:HD11	18:R:152:LEU:CD1	2.34	0.47
20:T:97:LEU:HD21	22:V:125:ILE:HD13	1.95	0.47
24:X:96:GLU:CD	37:k:17:TYR:O	2.58	0.47
25:Y:86:LEU:HD13	25:Y:103:PHE:HZ	1.79	0.47
25:Y:134:ARG:O	25:Y:138:ASN:ND2	2.48	0.47
25:Y:162:LEU:HD13	25:Y:194:PHE:HB3	1.97	0.47
25:Y:232:VAL:CG1	25:Y:234:PHE:CE1	2.97	0.47
25:Y:248:LEU:CD1	25:Y:439:CYS:SG	3.03	0.47
25:Y:440:LEU:CD1	25:Y:638:ARG:CA	2.76	0.47
26:Z:425:LEU:CB	26:Z:429:THR:HA	2.44	0.47
26:Z:426:GLN:HA	26:Z:426:GLN:NE2	2.30	0.47
26:Z:436:ALA:HB2	26:Z:452:LEU:HD21	1.95	0.47
26:Z:490:VAL:HG12	26:Z:514:THR:HB	1.97	0.47
26:Z:528:ASN:ND2	26:Z:533:PRO:HA	2.30	0.47
31:e:60:LEU:C	31:e:60:LEU:HD12	2.39	0.47
32:f:376:LEU:CD2	32:f:386:MET:CE	2.81	0.47
33:g:310:TYR:CE1	35:i:134:TYR:CE1	2.80	0.47
33:g:341:LYS:HB3	33:g:345:TYR:HD1	1.78	0.47
34:h:126:ILE:HB	34:h:154:GLU:CG	2.44	0.47
35:i:131:ALA:CB	35:i:151:LEU:HD13	2.43	0.47
35:i:161:GLU:HB3	35:i:162:LEU:CD2	2.44	0.47
35:i:164:LYS:NZ	35:i:164:LYS:O	2.33	0.47
36:j:136:SER:HB3	36:j:152:PHE:HE1	1.78	0.47
1:A:91:PHE:CD2	1:A:179:LEU:O	2.68	0.47
2:B:840:ILE:HG21	2:B:994:TYR:HD2	1.79	0.47
3:C:58:LEU:HD21	10:J:57:ILE:HD12	1.97	0.47
12:L:46:VAL:O	12:L:46:VAL:HG12	2.14	0.47
22:V:76:ILE:HD12	22:V:97:ARG:CD	2.42	0.47
22:V:114:LEU:N	22:V:114:LEU:CD1	2.78	0.47
23:W:92:ARG:O	23:W:93:LYS:C	2.58	0.47
24:X:34:ALA:HB2	24:X:78:CYS:HB3	1.97	0.47
24:X:35:ASN:C	24:X:35:ASN:OD1	2.58	0.47
25:Y:68:LYS:HB2	25:Y:228:LYS:HB3	1.90	0.47
25:Y:248:LEU:HD12	25:Y:439:CYS:SG	2.54	0.47
25:Y:252:LEU:C	25:Y:434:ILE:HG23	2.39	0.47
25:Y:357:LYS:CD	25:Y:376:PHE:HD1	2.27	0.47
25:Y:496:ILE:CG1	25:Y:682:ALA:HA	2.44	0.47
25:Y:627:PHE:HD1	25:Y:654:LEU:CD1	2.27	0.47
26:Z:410:LEU:HD11	26:Z:457:TYR:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:499:ARG:HG2	26:Z:530:LEU:CD1	2.45	0.47
32:f:327:ARG:NH2	39:m:131:DG:P	2.81	0.47
2:B:291:ILE:HD12	2:B:291:ILE:N	2.30	0.47
5:E:88:VAL:HB	5:E:116:ILE:HG12	1.97	0.47
9:I:106:CYS:SG	9:I:108:HIS:HB3	2.55	0.47
21:U:19:TYR:CZ	24:X:22:ARG:HG3	2.50	0.47
21:U:118:GLU:O	21:U:121:LYS:N	2.48	0.47
25:Y:37:ASN:C	25:Y:477:THR:HG1	2.23	0.47
25:Y:237:ALA:O	25:Y:240:ILE:HG12	2.15	0.47
25:Y:649:ARG:O	25:Y:653:PHE:CG	2.67	0.47
26:Z:356:LEU:HD21	26:Z:448:THR:CB	2.45	0.47
26:Z:421:ARG:NE	26:Z:430:LEU:HD21	2.29	0.47
26:Z:459:MET:SD	39:m:104:DA:C5'	3.02	0.47
26:Z:686:ARG:HG2	26:Z:690:ILE:HD12	1.95	0.47
26:Z:716:MET:O	26:Z:719:SER:HB2	2.15	0.47
30:d:250:LYS:HE2	30:d:252:THR:HG21	1.97	0.47
30:d:277:GLN:HA	31:e:56:THR:CG2	2.45	0.47
32:f:121:PHE:CZ	32:f:395:PHE:CG	2.99	0.47
32:f:145:ARG:NH1	32:f:147:LEU:O	2.40	0.47
36:j:171:ARG:CZ	36:j:174:GLY:HA3	2.45	0.47
36:j:230:ILE:O	36:j:233:VAL:HG13	2.15	0.47
1:A:89:PRO:HB2	1:A:204:THR:CB	2.44	0.47
3:C:100:THR:HG22	3:C:119:VAL:HG22	1.97	0.47
20:T:84:VAL:HG13	20:T:85:LYS:N	2.30	0.47
21:U:162:LEU:HD23	23:W:9:GLN:CG	2.45	0.47
22:V:117:LYS:HE3	22:V:122:TRP:N	2.30	0.47
25:Y:46:THR:O	25:Y:46:THR:HG22	2.15	0.47
25:Y:140:GLN:HG3	25:Y:143:ARG:CZ	2.45	0.47
25:Y:218:ILE:O	25:Y:222:VAL:HG23	2.15	0.47
25:Y:529:PHE:CZ	25:Y:704:ALA:HB3	2.50	0.47
26:Z:397:ILE:HD11	26:Z:423:GLN:HG2	1.97	0.47
26:Z:424:PHE:HE2	26:Z:454:VAL:HG21	1.81	0.47
26:Z:477:LEU:HA	26:Z:501:VAL:CG2	2.45	0.47
26:Z:717:TYR:CD1	26:Z:717:TYR:C	2.92	0.47
29:c:193:GLN:HG2	29:c:198:VAL:HG12	1.96	0.47
32:f:110:ASP:CG	33:g:92:LEU:HD21	2.38	0.47
33:g:69:TRP:CZ3	33:g:71:VAL:HG23	2.50	0.47
35:i:233:LEU:N	35:i:233:LEU:CD1	2.76	0.47
38:l:42:DT:H2'	38:l:43:DT:C5	2.50	0.47
1:A:1345:ARG:HG2	1:A:1372:VAL:CG1	2.45	0.46
6:F:96:THR:OG1	7:G:63:PRO:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:93:GLN:N	16:P:344:SER:CB	2.77	0.46
17:Q:166:LEU:HD23	17:Q:166:LEU:C	2.41	0.46
17:Q:234:LYS:HE2	17:Q:251:PHE:CZ	2.49	0.46
17:Q:297:ASP:OD2	17:Q:299:ARG:NH1	2.48	0.46
20:T:84:VAL:CG1	22:V:70:PHE:CE2	2.95	0.46
20:T:118:LEU:O	23:W:131:ASP:N	2.36	0.46
21:U:166:ARG:HG3	23:W:5:LEU:HD23	1.97	0.46
22:V:85:ASN:O	22:V:88:GLU:HG2	2.14	0.46
22:V:132:GLU:HB3	22:V:136:LYS:NZ	2.24	0.46
26:Z:327:LYS:HB3	26:Z:504:THR:C	2.39	0.46
26:Z:466:ARG:NE	26:Z:475:ASP:HB3	2.29	0.46
34:h:17:VAL:HG23	34:h:26:VAL:HG22	1.97	0.46
34:h:133:GLN:HE21	34:h:133:GLN:HB2	1.53	0.46
38:l:42:DT:H2''	38:l:43:DT:C6	2.49	0.46
2:B:72:GLU:CD	32:f:153:ARG:O	2.54	0.46
2:B:471:LYS:HE3	29:c:95:ARG:HE	1.80	0.46
6:F:92:ARG:HE	7:G:64:THR:CB	2.25	0.46
7:G:18:PHE:HA	7:G:22:MET:CE	2.44	0.46
10:J:1:MET:HE3	10:J:1:MET:HB3	1.87	0.46
21:U:188:GLU:O	21:U:192:ILE:HG13	2.16	0.46
23:W:12:LEU:O	23:W:12:LEU:HD23	2.16	0.46
25:Y:182:LEU:CD1	25:Y:192:PRO:HG2	2.45	0.46
25:Y:446:ILE:C	25:Y:448:PRO:HD2	2.41	0.46
25:Y:569:ILE:CG2	25:Y:571:VAL:CG2	2.87	0.46
26:Z:484:PHE:CD1	26:Z:485:ILE:N	2.83	0.46
26:Z:583:MET:O	26:Z:584:ASN:C	2.57	0.46
33:g:310:TYR:HD2	33:g:312:TYR:O	1.98	0.46
1:A:420:ARG:NH1	17:Q:174:ALA:HB2	2.24	0.46
1:A:709:THR:HG22	1:A:711:ARG:H	1.80	0.46
2:B:296:GLU:OE1	32:f:126:LYS:CD	2.63	0.46
2:B:1215:ARG:NH2	4:D:15:LEU:HD21	2.29	0.46
17:Q:291:PRO:HG2	17:Q:296:MET:SD	2.56	0.46
20:T:55:LYS:HA	20:T:60:VAL:HG13	1.94	0.46
23:W:13:ASP:O	23:W:14:GLN:C	2.58	0.46
25:Y:206:ILE:HD11	25:Y:226:VAL:HG22	1.96	0.46
25:Y:248:LEU:HD11	25:Y:445:ALA:HB3	1.95	0.46
26:Z:400:ALA:CB	26:Z:450:SER:CA	2.94	0.46
26:Z:446:PHE:CB	26:Z:452:LEU:CD2	2.92	0.46
30:d:277:GLN:HA	31:e:56:THR:HG21	1.98	0.46
34:h:133:GLN:HG3	34:h:134:LEU:H	1.80	0.46
1:A:190:ALA:O	39:m:116:DG:C5'	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:ILE:O	1:A:570:PRO:HA	2.16	0.46
2:B:662:MET:HA	2:B:665:GLU:HB2	1.97	0.46
9:I:83:ASN:HA	9:I:104:LEU:HG	1.97	0.46
17:Q:55:ARG:O	17:Q:56:ASN:C	2.59	0.46
17:Q:79:THR:O	17:Q:82:ASP:N	2.48	0.46
18:R:22:ASP:C	18:R:24:LEU:H	2.22	0.46
20:T:99:LYS:O	20:T:99:LYS:HE3	2.16	0.46
21:U:24:THR:CB	37:k:24:TYR:CD1	2.99	0.46
21:U:177:LEU:O	21:U:181:GLN:HG2	2.15	0.46
22:V:83:LEU:O	22:V:84:SER:OG	2.33	0.46
23:W:7:GLN:O	23:W:11:CYS:HB2	2.15	0.46
25:Y:24:TYR:CE2	25:Y:482:SER:CB	2.79	0.46
25:Y:140:GLN:CB	25:Y:143:ARG:HG2	2.45	0.46
25:Y:487:LEU:HD23	25:Y:490:LYS:HE3	1.96	0.46
26:Z:383:ILE:HD13	26:Z:533:PRO:C	2.40	0.46
26:Z:397:ILE:HD11	26:Z:423:GLN:CG	2.45	0.46
29:c:136:LEU:HD21	29:c:196:ILE:HG22	1.96	0.46
31:e:44:PHE:CZ	31:e:48:VAL:HG21	2.50	0.46
35:i:130:TRP:CG	35:i:151:LEU:CG	2.90	0.46
35:i:211:LYS:HB2	35:i:211:LYS:HE3	1.68	0.46
36:j:211:LYS:CG	39:m:148:DT:H4'	2.46	0.46
2:B:803:LEU:HG	10:J:52:THR:HG21	1.98	0.46
3:C:70:ILE:HD11	3:C:144:ILE:HG12	1.98	0.46
13:M:188:LEU:C	13:M:190:ASP:N	2.72	0.46
17:Q:98:ILE:CG2	17:Q:99:PRO:N	2.78	0.46
18:R:4:SER:HB3	18:R:200:LEU:HG	1.97	0.46
25:Y:352:ILE:CB	25:Y:380:ARG:NE	2.62	0.46
32:f:119:LEU:HD12	33:g:135:PHE:CE1	2.50	0.46
32:f:373:TYR:CE2	33:g:74:PRO:HB3	2.51	0.46
34:h:13:LEU:CD2	34:h:13:LEU:H	2.27	0.46
39:m:108:DC:H2''	39:m:109:DA:O4'	2.15	0.46
1:A:11:LEU:HD13	2:B:1195:HIS:NE2	2.31	0.46
1:A:132:LYS:NZ	1:A:1415:SER:HB3	2.30	0.46
2:B:430:ARG:CA	32:f:326:ARG:NH1	2.50	0.46
4:D:144:THR:HG21	7:G:46:LEU:HD13	1.97	0.46
6:F:96:THR:CG2	7:G:66:GLY:CA	2.93	0.46
16:P:392:ARG:H	16:P:476:ILE:HA	1.79	0.46
16:P:394:PHE:CA	16:P:407:GLY:HA2	2.36	0.46
20:T:48:ARG:O	20:T:52:THR:HG23	2.16	0.46
20:T:87:LEU:CD1	20:T:90:TYR:HD2	2.08	0.46
20:T:90:TYR:CD1	22:V:112:LYS:CB	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:166:ARG:O	21:U:167:PRO:C	2.57	0.46
23:W:74:ASN:O	23:W:75:LYS:C	2.59	0.46
25:Y:110:SER:HB3	25:Y:212:TYR:HD1	1.81	0.46
25:Y:124:ARG:HG3	25:Y:376:PHE:C	2.40	0.46
25:Y:627:PHE:CD1	25:Y:654:LEU:CD1	2.96	0.46
33:g:92:LEU:C	33:g:92:LEU:HD12	2.40	0.46
33:g:307:PHE:HA	33:g:313:TRP:HE1	1.81	0.46
35:i:218:ASP:CB	35:i:223:GLN:NE2	2.78	0.46
37:k:15:PRO:O	37:k:16:SER:HB2	2.15	0.46
38:l:58:DG:C2'	38:l:59:DT:C7	2.92	0.46
39:m:105:DC:C2'	39:m:106:DA:H5'	2.41	0.46
1:A:883:LEU:HD23	1:A:1021:LEU:HB2	1.97	0.46
1:A:1151:GLU:HG2	9:I:45:ARG:HG3	1.98	0.46
2:B:936:ASP:OD1	2:B:938:SER:OG	2.25	0.46
4:D:5:THR:HG21	7:G:74:TYR:OH	2.15	0.46
8:H:30:SER:HB3	8:H:36:CYS:HB3	1.98	0.46
16:P:238:MET:C	16:P:240:SER:H	2.24	0.46
18:R:62:PHE:HE2	18:R:201:ALA:HB1	1.65	0.46
20:T:57:VAL:O	20:T:58:GLU:HB3	2.15	0.46
20:T:123:ASP:OD1	23:W:132:GLY:HA3	2.16	0.46
22:V:147:LEU:HD23	22:V:147:LEU:C	2.41	0.46
25:Y:68:LYS:CB	25:Y:228:LYS:CB	2.80	0.46
25:Y:615:GLN:N	25:Y:618:ARG:HE	2.12	0.46
26:Z:449:GLU:CB	26:Z:452:LEU:HA	2.46	0.46
26:Z:474:MET:HE3	26:Z:482:TRP:CA	2.45	0.46
29:c:85:PRO:HA	29:c:89:GLY:O	2.15	0.46
32:f:103:LEU:CG	33:g:98:ASN:ND2	2.75	0.46
32:f:139:LEU:CB	32:f:350:TRP:CH2	2.98	0.46
33:g:87:LEU:O	33:g:88:HIS:CG	2.68	0.46
33:g:356:LYS:HG3	33:g:358:LEU:O	2.15	0.46
34:h:14:LYS:CG	34:h:151:LEU:HB3	2.40	0.46
38:l:42:DT:H2'	38:l:43:DT:C7	2.45	0.46
1:A:1074:GLU:O	1:A:1077:THR:HB	2.16	0.46
2:B:365:THR:HG21	2:B:370:PHE:CG	2.51	0.46
5:E:65:THR:O	5:E:69:ILE:HD12	2.16	0.46
16:P:387:LYS:CA	16:P:484:ASP:O	2.63	0.46
17:Q:98:ILE:HD11	17:Q:218:ILE:CD1	2.45	0.46
18:R:82:ALA:HB2	18:R:103:SER:HA	1.97	0.46
20:T:53:LEU:CD2	22:V:94:ILE:HG21	2.46	0.46
20:T:89:GLU:H	20:T:89:GLU:CD	2.24	0.46
20:T:117:ILE:HD11	22:V:147:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:166:ARG:O	21:U:169:GLN:HB3	2.16	0.46
22:V:112:LYS:HG2	22:V:113:ASP:N	2.31	0.46
23:W:64:THR:HG23	23:W:65:ASP:N	2.31	0.46
25:Y:343:LYS:HA	25:Y:346:MET:HE3	1.98	0.46
26:Z:305:GLU:HA	26:Z:327:LYS:NZ	2.31	0.46
26:Z:327:LYS:HG3	26:Z:506:ALA:HA	1.97	0.46
26:Z:453:VAL:CG2	26:Z:482:TRP:CZ2	2.97	0.46
26:Z:476:PHE:CD2	26:Z:477:LEU:CD1	2.93	0.46
29:c:196:ILE:HA	29:c:197:HIS:HA	1.65	0.46
34:h:82:VAL:HG22	34:h:83:GLU:N	2.30	0.46
35:i:136:GLN:HB2	35:i:137:LYS:CE	2.45	0.46
35:i:200:VAL:C	35:i:201:THR:HG1	2.20	0.46
1:A:58:LEU:HD22	1:A:80:HIS:O	2.16	0.46
1:A:180:LYS:CE	1:A:294:SER:HB3	2.46	0.46
1:A:567:LYS:HA	1:A:568:PRO:C	2.41	0.46
2:B:582:VAL:HG22	2:B:626:ILE:HB	1.97	0.46
3:C:148:ARG:N	3:C:151:GLN:HG3	2.23	0.46
5:E:90:VAL:HG23	5:E:123:LEU:HD11	1.98	0.46
6:F:92:ARG:NH2	7:G:63:PRO:C	2.73	0.46
13:M:166:ILE:CA	14:N:95:VAL:HA	2.39	0.46
17:Q:78:GLU:CD	17:Q:80:MET:HB3	2.41	0.46
20:T:93:ILE:CD1	22:V:126:ILE:HD13	2.30	0.46
21:U:118:GLU:O	21:U:119:LEU:C	2.59	0.46
25:Y:171:LEU:CB	25:Y:172:PRO:CD	2.93	0.46
25:Y:203:CYS:SG	25:Y:226:VAL:HG23	2.56	0.46
25:Y:231:ILE:HG22	25:Y:457:ILE:CD1	2.43	0.46
25:Y:350:HIS:O	25:Y:353:SER:OG	2.23	0.46
26:Z:397:ILE:HD11	26:Z:423:GLN:NE2	2.30	0.46
26:Z:410:LEU:CD1	26:Z:477:LEU:HD11	2.45	0.46
26:Z:424:PHE:HB2	26:Z:435:CYS:SG	2.56	0.46
26:Z:524:ILE:HD13	26:Z:524:ILE:H	1.80	0.46
32:f:341:LYS:CG	32:f:413:MET:SD	3.01	0.46
32:f:394:LYS:CD	32:f:396:THR:HG23	2.45	0.46
2:B:86:ARG:HG2	2:B:138:GLU:HG3	1.98	0.46
17:Q:167:GLN:O	17:Q:168:ILE:HG13	2.16	0.46
22:V:84:SER:H	22:V:87:LEU:HB2	1.80	0.46
22:V:84:SER:N	22:V:87:LEU:HB2	2.31	0.46
25:Y:21:GLN:CA	25:Y:53:LEU:HD21	2.46	0.46
25:Y:39:ILE:HG12	25:Y:458:ILE:CB	2.39	0.46
25:Y:342:LEU:HD23	25:Y:345:ARG:CZ	2.45	0.46
25:Y:446:ILE:HG21	25:Y:473:LEU:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:376:ASN:CB	26:Z:379:ALA:HB3	2.46	0.46
26:Z:516:THR:CA	26:Z:681:ARG:CZ	2.82	0.46
32:f:115:ARG:O	33:g:138:GLN:HA	2.16	0.46
33:g:87:LEU:C	33:g:88:HIS:CG	2.92	0.46
34:h:17:VAL:HG13	34:h:66:LEU:HD11	1.95	0.46
1:A:448:PRO:O	1:A:449:SER:CB	2.63	0.45
1:A:923:LEU:O	1:A:927:VAL:HG23	2.16	0.45
1:A:1428:VAL:HG13	2:B:1151:LEU:CD2	2.46	0.45
3:C:8:VAL:HG11	11:K:105:PHE:HD1	1.81	0.45
9:I:50:THR:HG22	9:I:52:ILE:H	1.82	0.45
17:Q:75:LEU:CB	17:Q:98:ILE:HD13	2.33	0.45
17:Q:86:ASN:C	17:Q:89:ILE:HG12	2.41	0.45
20:T:55:LYS:CA	20:T:60:VAL:HG12	2.39	0.45
20:T:97:LEU:HA	20:T:100:ILE:HD11	1.98	0.45
23:W:22:THR:C	23:W:24:ASN:N	2.74	0.45
25:Y:656:PHE:HA	25:Y:659:MET:SD	2.56	0.45
26:Z:303:ARG:NH2	26:Z:470:SER:HB2	2.31	0.45
26:Z:383:ILE:HD13	26:Z:383:ILE:N	2.31	0.45
26:Z:436:ALA:HB1	26:Z:444:GLU:CB	2.45	0.45
26:Z:449:GLU:HB3	26:Z:451:GLY:C	2.41	0.45
26:Z:460:VAL:HG11	38:l:65:DA:C3'	2.40	0.45
32:f:327:ARG:HH21	39:m:131:DG:P	2.35	0.45
38:l:40:DG:C2	39:m:127:DG:C2	3.05	0.45
1:A:353:ILE:HG22	1:A:468:PHE:HB2	1.98	0.45
2:B:900:ALA:HB1	12:L:61:THR:OG1	2.16	0.45
10:J:28:ASP:C	10:J:30:LEU:H	2.24	0.45
12:L:58:LYS:O	12:L:59:ALA:O	2.34	0.45
16:P:581:GLU:CB	16:P:618:LYS:O	2.64	0.45
21:U:26:SER:O	21:U:30:LYS:HG3	2.17	0.45
25:Y:200:ILE:HD11	25:Y:225:GLU:HB3	1.98	0.45
25:Y:495:MET:CE	25:Y:696:TRP:HE3	2.30	0.45
25:Y:496:ILE:O	25:Y:686:PHE:HE2	2.00	0.45
26:Z:487:LEU:CD2	26:Z:531:ILE:CD1	2.95	0.45
26:Z:528:ASN:CG	26:Z:533:PRO:HB3	2.41	0.45
26:Z:712:ASP:OD1	27:a:449:ASP:N	2.43	0.45
33:g:74:PRO:HD2	33:g:223:GLN:HA	1.98	0.45
33:g:306:LEU:HG	33:g:313:TRP:CG	2.50	0.45
34:h:44:LYS:CE	34:h:54:LEU:HD13	2.45	0.45
34:h:91:TYR:CB	34:h:92:PRO:HD3	2.39	0.45
35:i:156:ASP:C	35:i:159:VAL:CG1	2.86	0.45
35:i:238:ASP:CB	35:i:243:TYR:HE1	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:836:TYR:CE2	1:A:840:ARG:HD2	2.50	0.45
2:B:846:ILE:HG23	2:B:974:PRO:HD2	1.99	0.45
9:I:72:ASP:O	9:I:81:ARG:HG2	2.16	0.45
16:P:340:GLY:O	16:P:354:ILE:CB	2.64	0.45
21:U:25:GLN:CA	37:k:24:TYR:HB3	2.46	0.45
22:V:83:LEU:HG	22:V:87:LEU:CD1	2.29	0.45
22:V:117:LYS:HZ3	22:V:121:GLU:HG2	1.63	0.45
25:Y:499:LYS:HZ3	25:Y:522:TYR:CA	2.07	0.45
26:Z:339:GLU:O	26:Z:340:GLU:HB2	2.16	0.45
26:Z:424:PHE:CD1	26:Z:450:SER:CB	2.93	0.45
26:Z:452:LEU:CD2	26:Z:452:LEU:C	2.88	0.45
26:Z:474:MET:CB	26:Z:481:GLU:N	2.80	0.45
26:Z:475:ASP:N	26:Z:478:THR:H	2.15	0.45
26:Z:517:LEU:HD22	26:Z:534:LYS:HB3	1.98	0.45
33:g:61:LEU:HD23	33:g:214:ILE:HD12	1.97	0.45
33:g:109:ASN:OD1	33:g:111:ASN:OD1	2.35	0.45
34:h:64:ASP:CB	34:h:66:LEU:CD2	2.94	0.45
39:m:138:DA:H2"	39:m:139:DG:C8	2.52	0.45
3:C:55:THR:HB	3:C:151:GLN:HA	1.99	0.45
4:D:31:GLN:O	4:D:34:GLN:HB2	2.17	0.45
22:V:146:LYS:CG	23:W:129:PHE:CE1	2.86	0.45
25:Y:251:ASP:CB	25:Y:436:ARG:CZ	2.75	0.45
25:Y:495:MET:CG	25:Y:686:PHE:CB	2.73	0.45
26:Z:408:ILE:CG1	26:Z:466:ARG:CZ	2.95	0.45
26:Z:484:PHE:HZ	26:Z:511:LEU:CB	2.27	0.45
26:Z:638:ASN:C	26:Z:638:ASN:ND2	2.73	0.45
33:g:69:TRP:HZ3	33:g:71:VAL:HG23	1.80	0.45
34:h:120:ASN:CG	34:h:133:GLN:CG	2.85	0.45
35:i:148:LEU:HD21	35:i:154:LYS:HA	1.99	0.45
3:C:97:VAL:HG21	3:C:129:ILE:HG23	1.99	0.45
17:Q:89:ILE:O	17:Q:92:SER:OG	2.20	0.45
18:R:200:LEU:HD13	18:R:201:ALA:N	2.32	0.45
20:T:63:PHE:CE1	20:T:66:ASN:OD1	2.70	0.45
25:Y:462:THR:HG22	25:Y:462:THR:O	2.17	0.45
26:Z:408:ILE:CG2	26:Z:476:PHE:H	2.29	0.45
26:Z:474:MET:HG3	26:Z:479:GLY:O	2.17	0.45
26:Z:474:MET:CG	26:Z:505:ILE:CG2	2.94	0.45
26:Z:476:PHE:CE1	26:Z:502:VAL:CG2	2.94	0.45
26:Z:499:ARG:CG	26:Z:530:LEU:CD1	2.95	0.45
27:a:503:ASP:HB3	27:a:507:ARG:NH1	2.31	0.45
36:j:190:PHE:HZ	38:l:18:DA:N1	2.11	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:745:GLN:HA	1:A:748:MET:HE3	1.98	0.45
2:B:563:MET:HE3	2:B:580:VAL:HB	1.99	0.45
20:T:94:TYR:CD2	22:V:109:GLU:CB	2.98	0.45
20:T:111:THR:CG2	20:T:112:ARG:N	2.79	0.45
21:U:127:LEU:O	21:U:131:LEU:HD23	2.17	0.45
25:Y:68:LYS:NZ	25:Y:228:LYS:CE	2.80	0.45
25:Y:281:LYS:HE2	25:Y:345:ARG:HB3	1.98	0.45
25:Y:288:LYS:CD	25:Y:334:PHE:C	2.83	0.45
25:Y:346:MET:CB	25:Y:384:LEU:CD2	2.91	0.45
25:Y:445:ALA:O	25:Y:448:PRO:CD	2.65	0.45
26:Z:434:ASN:HD22	26:Z:434:ASN:N	2.15	0.45
26:Z:466:ARG:HE	26:Z:475:ASP:HB3	1.81	0.45
26:Z:476:PHE:CE1	26:Z:487:LEU:CG	3.00	0.45
31:e:117:ASN:CG	31:e:119:LYS:HG2	2.42	0.45
32:f:341:LYS:HA	32:f:413:MET:HE1	1.99	0.45
33:g:92:LEU:HD12	33:g:93:GLY:N	2.32	0.45
35:i:226:GLU:CA	35:i:229:LYS:NZ	2.80	0.45
36:j:120:LYS:CB	38:l:23:DA:C2'	2.74	0.45
37:k:3:TYR:O	37:k:4:SER:CB	2.65	0.45
38:l:48:DT:H2''	38:l:49:DC:O5'	2.16	0.45
4:D:165:GLN:HE22	37:k:1:PRO:H3	1.53	0.45
6:F:89:GLU:C	6:F:93:ILE:HD12	2.42	0.45
13:M:140:GLY:O	13:M:151:GLN:N	2.45	0.45
16:P:479:LEU:C	16:P:481:LEU:N	2.74	0.45
16:P:618:LYS:O	16:P:619:ILE:CB	2.65	0.45
20:T:90:TYR:CE1	22:V:112:LYS:CD	2.94	0.45
25:Y:238:HIS:CE1	25:Y:239:ASN:OD1	2.69	0.45
25:Y:352:ILE:O	25:Y:356:PRO:HD2	1.98	0.45
26:Z:343:PHE:CD2	26:Z:343:PHE:C	2.95	0.45
26:Z:476:PHE:HA	26:Z:485:ILE:HG21	1.98	0.45
26:Z:484:PHE:CD1	26:Z:486:ILE:HG13	2.52	0.45
32:f:113:ASN:O	32:f:114:MET:SD	2.75	0.45
32:f:129:PRO:O	32:f:129:PRO:CD	2.63	0.45
35:i:226:GLU:N	35:i:229:LYS:NZ	2.64	0.45
36:j:99:PHE:HD1	39:m:142:DA:C4	2.34	0.45
36:j:230:ILE:HG23	36:j:234:LEU:HD22	1.98	0.45
39:m:104:DA:H2''	39:m:105:DC:C5'	2.20	0.45
2:B:89:GLU:HB2	2:B:135:ARG:HB2	1.99	0.45
2:B:998:ASP:OD1	3:C:35:ARG:NH2	2.46	0.45
7:G:98:GLY:HA3	7:G:110:VAL:O	2.17	0.45
12:L:30:ILE:HG22	12:L:31:CYS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:4:SER:OG	18:R:200:LEU:HD23	2.17	0.45
19:S:22:ALA:O	19:S:26:ASN:CB	2.64	0.45
23:W:83:VAL:CG2	23:W:84:ASP:H	2.26	0.45
25:Y:67:ARG:NH1	25:Y:455:SER:HG	2.09	0.45
25:Y:467:ASP:HB3	25:Y:471:ARG:NH1	2.32	0.45
25:Y:495:MET:HG3	25:Y:681:LEU:CB	2.26	0.45
25:Y:649:ARG:HG3	25:Y:650:GLU:N	2.31	0.45
26:Z:408:ILE:CD1	26:Z:466:ARG:CD	2.95	0.45
26:Z:467:SER:OG	26:Z:497:MET:HG2	2.16	0.45
26:Z:474:MET:N	26:Z:480:ARG:N	2.65	0.45
26:Z:505:ILE:CG2	26:Z:507:ALA:H	2.10	0.45
26:Z:522:ASP:O	26:Z:524:ILE:HD13	2.17	0.45
26:Z:609:SER:O	26:Z:655:SER:HA	2.16	0.45
29:c:27:CYS:SG	29:c:48:CYS:HB3	2.57	0.45
34:h:54:LEU:O	34:h:58:ILE:HG12	2.17	0.45
34:h:61:LEU:CB	34:h:67:ILE:CD1	2.94	0.45
1:A:875:ALA:HA	1:A:878:ILE:HD12	1.99	0.45
1:A:994:GLN:HE22	1:A:1023:ARG:HE	1.65	0.45
8:H:93:TYR:HA	8:H:145:ARG:HB3	1.99	0.45
9:I:102:VAL:HG22	9:I:109:ILE:HG12	1.97	0.45
16:P:419:GLU:O	16:P:420:ALA:C	2.60	0.45
18:R:188:SER:O	18:R:191:PRO:HD3	2.17	0.45
21:U:156:VAL:CG1	21:U:157:ASN:N	2.79	0.45
22:V:65:PHE:O	22:V:69:ILE:HG13	2.17	0.45
25:Y:109:THR:HG22	25:Y:110:SER:N	2.32	0.45
25:Y:127:THR:HG21	25:Y:361:GLN:CD	2.42	0.45
25:Y:229:ASP:HB3	25:Y:453:PHE:HA	1.94	0.45
25:Y:238:HIS:O	25:Y:660:ARG:NH1	2.50	0.45
25:Y:697:ILE:HG22	25:Y:698:ALA:N	2.32	0.45
26:Z:455:SER:CB	26:Z:466:ARG:HD3	2.46	0.45
29:c:193:GLN:HG2	29:c:198:VAL:CG1	2.47	0.45
34:h:40:GLU:H	34:h:87:TYR:HE1	1.65	0.45
34:h:66:LEU:HD22	34:h:66:LEU:N	2.32	0.45
34:h:149:CYS:HB2	34:h:154:GLU:O	2.17	0.45
35:i:135:ILE:O	35:i:139:GLY:HA2	2.16	0.45
1:A:151:ASP:HA	1:A:163:SER:HA	1.99	0.45
1:A:451:HIS:CD2	1:A:1074:GLU:HG3	2.52	0.45
1:A:514:PRO:HG2	1:A:1067:LEU:HD11	1.98	0.45
1:A:1356:ILE:HG21	1:A:1363:VAL:HG23	1.99	0.45
2:B:1220:ARG:N	4:D:14:ARG:NH2	2.64	0.45
3:C:18:VAL:HG12	3:C:20:PHE:HD1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:315:SER:CB	16:P:425:ILE:H	2.28	0.45
20:T:67:LEU:HB3	20:T:71:LYS:HE2	1.99	0.45
20:T:104:SER:CB	22:V:136:LYS:HZ1	2.30	0.45
25:Y:337:ARG:NH1	25:Y:345:ARG:NE	2.65	0.45
25:Y:353:SER:OG	25:Y:381:LEU:CA	2.64	0.45
26:Z:303:ARG:HH21	26:Z:470:SER:HB2	1.82	0.45
26:Z:377:GLY:CA	26:Z:381:SER:HB2	2.45	0.45
26:Z:487:LEU:CD2	26:Z:531:ILE:HD13	2.47	0.45
31:e:39:ARG:O	31:e:39:ARG:HD3	2.18	0.45
32:f:113:ASN:C	32:f:114:MET:CG	2.80	0.45
32:f:120:LYS:HE2	33:g:72:ARG:CD	2.47	0.45
33:g:128:VAL:C	33:g:130:GLU:N	2.75	0.45
1:A:42:ASP:O	1:A:44:THR:N	2.50	0.44
1:A:548:ASN:HD21	11:K:47:ARG:HH21	1.65	0.44
1:A:974:ASP:C	1:A:976:THR:H	2.25	0.44
1:A:1259:MET:HA	1:A:1262:LYS:HD2	1.99	0.44
2:B:233:PRO:HG2	2:B:234:ILE:HD12	1.99	0.44
12:L:62:LYS:O	12:L:63:ARG:C	2.59	0.44
16:P:183:GLU:N	19:S:77:ARG:CB	2.80	0.44
20:T:46:LEU:CD1	20:T:80:LEU:HD13	2.47	0.44
24:X:21:THR:O	24:X:25:VAL:HG23	2.17	0.44
25:Y:83:LEU:HD13	25:Y:177:SER:HA	1.98	0.44
25:Y:537:MET:HA	25:Y:619:THR:O	2.17	0.44
25:Y:655:SER:HA	25:Y:689:LYS:NZ	2.31	0.44
26:Z:299:GLY:HA2	26:Z:347:HIS:N	2.32	0.44
26:Z:310:ILE:HG12	26:Z:313:VAL:HG23	1.97	0.44
26:Z:356:LEU:CD2	26:Z:448:THR:CG2	2.95	0.44
26:Z:476:PHE:CA	26:Z:485:ILE:CG2	2.95	0.44
33:g:59:LEU:HD21	33:g:214:ILE:CD1	2.47	0.44
35:i:179:LYS:CD	35:i:179:LYS:C	2.86	0.44
36:j:110:LYS:NZ	39:m:146:DT:OP1	2.48	0.44
39:m:125:DT:C5	39:m:126:DC:N4	2.85	0.44
1:A:61:ILE:CD1	1:A:61:ILE:C	2.90	0.44
1:A:187:LYS:HE3	1:A:198:GLU:HB2	1.99	0.44
1:A:446:ARG:HB2	1:A:487:MET:SD	2.57	0.44
2:B:973:ILE:HG22	2:B:974:PRO:HD2	1.99	0.44
2:B:1001:PHE:HE2	3:C:178:PHE:HB3	1.82	0.44
11:K:65:HIS:HE1	11:K:67:PHE:CG	2.35	0.44
16:P:315:SER:CB	16:P:425:ILE:CA	2.96	0.44
17:Q:85:LEU:HD21	17:Q:87:PHE:HD1	1.81	0.44
24:X:21:THR:HG22	24:X:22:ARG:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:466:ARG:HH21	26:Z:476:PHE:HB3	1.81	0.44
32:f:123:SER:O	33:g:130:GLU:HB2	2.17	0.44
33:g:74:PRO:HG2	33:g:223:GLN:HG3	1.99	0.44
33:g:342:LYS:O	33:g:345:TYR:N	2.46	0.44
34:h:16:VAL:O	34:h:20:PHE:HD1	2.00	0.44
34:h:126:ILE:O	34:h:128:LEU:CD2	2.61	0.44
36:j:76:LEU:HB2	36:j:119:GLY:O	2.18	0.44
1:A:70:CYS:O	1:A:72:GLU:HG2	2.17	0.44
1:A:190:ALA:O	39:m:116:DG:H5'	2.17	0.44
1:A:869:GLY:O	5:E:204:THR:HG21	2.18	0.44
1:A:1393:ASN:ND2	1:A:1393:ASN:H	2.15	0.44
1:A:1442:ASP:CG	6:F:137:TYR:HE1	2.24	0.44
2:B:64:CYS:HA	2:B:67:SER:HB3	1.98	0.44
2:B:394:ASP:OD2	9:I:91:ARG:HD2	2.17	0.44
6:F:92:ARG:NH1	7:G:63:PRO:HB2	2.12	0.44
13:M:137:SER:HA	13:M:153:TYR:O	2.18	0.44
16:P:315:SER:CB	16:P:425:ILE:C	2.86	0.44
17:Q:2:VAL:HB	18:R:100:VAL:HG11	1.99	0.44
17:Q:16:TYR:O	17:Q:20:ILE:HG12	2.18	0.44
17:Q:75:LEU:C	17:Q:98:ILE:HG21	2.15	0.44
22:V:100:LEU:HD13	22:V:100:LEU:O	2.17	0.44
22:V:133:LEU:HA	22:V:136:LYS:CE	2.42	0.44
25:Y:124:ARG:O	25:Y:128:VAL:HG23	2.16	0.44
25:Y:571:VAL:HG12	25:Y:572:GLU:CG	2.47	0.44
26:Z:300:ASP:N	26:Z:347:HIS:HA	2.32	0.44
26:Z:310:ILE:HG21	26:Z:313:VAL:HG21	2.00	0.44
26:Z:447:GLN:C	26:Z:452:LEU:CB	2.90	0.44
26:Z:478:THR:CG2	26:Z:479:GLY:H	2.21	0.44
31:e:6:TYR:N	31:e:6:TYR:CD1	2.83	0.44
31:e:84:GLN:HA	31:e:84:GLN:HE21	1.83	0.44
35:i:131:ALA:HA	35:i:151:LEU:HD13	1.71	0.44
1:A:270:LEU:HD12	1:A:270:LEU:HA	1.69	0.44
1:A:449:SER:HA	1:A:454:SER:HB3	1.98	0.44
2:B:102:VAL:HG23	2:B:112:LEU:HD22	2.00	0.44
2:B:296:GLU:OE1	32:f:126:LYS:HD3	2.17	0.44
3:C:133:ILE:HG21	3:C:236:GLY:HA3	2.00	0.44
16:P:323:PHE:O	16:P:338:LYS:CA	2.65	0.44
17:Q:83:LYS:CG	17:Q:84:PRO:HD2	2.47	0.44
17:Q:98:ILE:HD12	17:Q:216:LEU:CD2	2.47	0.44
17:Q:224:MET:HE1	17:Q:230:LEU:CD1	2.45	0.44
17:Q:232:LEU:CD2	17:Q:253:LEU:HD13	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:S:99:PHE:C	19:S:101:GLU:H	2.26	0.44
20:T:46:LEU:HD11	20:T:80:LEU:CD1	2.46	0.44
25:Y:57:ILE:CG2	25:Y:58:ALA:N	2.80	0.44
25:Y:167:VAL:HG13	25:Y:195:ILE:HG21	1.99	0.44
25:Y:453:PHE:O	25:Y:453:PHE:CD2	2.70	0.44
26:Z:370:LEU:HD23	26:Z:370:LEU:C	2.42	0.44
26:Z:455:SER:CB	26:Z:466:ARG:CG	2.93	0.44
26:Z:473:VAL:CB	26:Z:481:GLU:CG	2.95	0.44
26:Z:501:VAL:CG2	26:Z:502:VAL:N	2.81	0.44
26:Z:601:ARG:HD3	26:Z:696:ARG:HH22	1.82	0.44
30:d:231:ILE:CG2	30:d:232:SER:N	2.81	0.44
32:f:129:PRO:CD	33:g:131:ASN:ND2	2.81	0.44
32:f:152:THR:HG21	32:f:337:GLU:CG	2.48	0.44
32:f:375:LEU:HD13	33:g:134:VAL:HG21	1.99	0.44
33:g:335:LYS:O	33:g:355:TYR:OH	2.35	0.44
33:g:350:THR:CG2	35:i:130:TRP:CE3	2.90	0.44
34:h:13:LEU:HD11	34:h:94:ALA:CB	2.47	0.44
34:h:33:LEU:HD23	34:h:89:VAL:HG21	1.99	0.44
34:h:120:ASN:CG	34:h:133:GLN:HG2	2.42	0.44
1:A:11:LEU:CD1	2:B:1195:HIS:NE2	2.80	0.44
1:A:589:GLN:HG2	1:A:606:LEU:HD13	1.99	0.44
1:A:743:VAL:O	1:A:747:VAL:HG23	2.16	0.44
1:A:1154:TYR:CE1	9:I:18:GLU:HG3	2.53	0.44
2:B:69:LEU:HD22	2:B:425:THR:HG23	2.00	0.44
2:B:1158:PHE:HE2	2:B:1160:VAL:HG13	1.83	0.44
6:F:130:ILE:HB	6:F:148:VAL:HG21	1.99	0.44
7:G:143:ILE:HG22	7:G:145:VAL:HG22	1.99	0.44
17:Q:197:ASN:HB3	17:Q:202:SER:HB3	1.99	0.44
18:R:27:SER:O	18:R:132:LEU:HD21	2.17	0.44
20:T:46:LEU:CD1	20:T:80:LEU:CD1	2.95	0.44
21:U:111:ASN:OD1	21:U:113:GLN:HG2	2.17	0.44
23:W:18:GLN:HA	23:W:21:ALA:HB3	1.99	0.44
25:Y:378:SER:OG	25:Y:381:LEU:HB2	2.14	0.44
26:Z:424:PHE:HE2	26:Z:454:VAL:CG2	2.29	0.44
26:Z:466:ARG:NH2	26:Z:476:PHE:HB3	2.32	0.44
26:Z:535:LEU:HG	26:Z:535:LEU:O	2.18	0.44
26:Z:609:SER:OG	26:Z:615:LEU:HB2	2.18	0.44
32:f:108:LYS:NZ	33:g:106:LEU:CD2	2.73	0.44
32:f:327:ARG:NH2	32:f:333:LYS:HZ1	2.16	0.44
32:f:329:THR:HA	32:f:332:LEU:HG	2.00	0.44
33:g:294:MET:H	33:g:295:PRO:HD2	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:g:304:PHE:O	33:g:308:ASP:CG	2.61	0.44
34:h:28:VAL:CG2	34:h:57:LEU:CD1	2.95	0.44
35:i:236:LYS:CE	35:i:243:TYR:CB	2.95	0.44
1:A:337:ARG:NH1	2:B:1132:GLU:OE1	2.49	0.44
3:C:11:ARG:HE	3:C:21:ILE:HD11	1.82	0.44
17:Q:196:LYS:NZ	18:R:75:ASN:HB2	2.32	0.44
18:R:138:ARG:HB2	18:R:154:GLU:HB3	2.00	0.44
18:R:203:GLN:C	18:R:205:VAL:N	2.76	0.44
21:U:166:ARG:O	21:U:169:GLN:N	2.50	0.44
22:V:71:TYR:CE2	22:V:75:GLN:CD	2.96	0.44
25:Y:59:TYR:CA	25:Y:62:HIS:CE1	2.76	0.44
25:Y:416:PHE:HE2	25:Y:440:LEU:CG	2.22	0.44
26:Z:421:ARG:HE	26:Z:430:LEU:CD1	2.22	0.44
26:Z:430:LEU:HD23	26:Z:430:LEU:C	2.42	0.44
26:Z:434:ASN:O	26:Z:452:LEU:HG	2.18	0.44
26:Z:455:SER:HB3	26:Z:466:ARG:CG	2.48	0.44
26:Z:484:PHE:CD1	26:Z:484:PHE:C	2.96	0.44
26:Z:677:TYR:CD1	26:Z:677:TYR:C	2.95	0.44
32:f:353:GLU:O	32:f:354:ASP:CB	2.60	0.44
33:g:88:HIS:CD2	33:g:89:GLY:H	2.36	0.44
33:g:219:CYS:C	33:g:220:HIS:CG	2.96	0.44
34:h:127:CYS:HG	34:h:151:LEU:HD21	1.81	0.44
35:i:138:LYS:NZ	35:i:138:LYS:HB3	2.32	0.44
35:i:226:GLU:CG	35:i:227:ASP:N	2.79	0.44
1:A:343:LYS:NZ	2:B:1156:ASP:HB2	2.33	0.44
1:A:1443:VAL:CG1	6:F:132:LEU:HB3	2.48	0.44
2:B:351:TYR:OH	2:B:355:ILE:HD11	2.18	0.44
2:B:509:ALA:C	2:B:511:PRO:HD3	2.43	0.44
2:B:766:ARG:NH2	2:B:1020:ARG:HD3	2.33	0.44
16:P:625:GLU:O	16:P:626:HIS:CB	2.66	0.44
17:Q:98:ILE:O	17:Q:99:PRO:C	2.59	0.44
17:Q:259:VAL:HG21	17:Q:268:ILE:HD12	2.00	0.44
20:T:126:LYS:CB	23:W:132:GLY:O	2.66	0.44
21:U:31:LEU:HB3	21:U:32:PRO:HD3	1.99	0.44
23:W:30:HIS:O	23:W:33:GLU:N	2.50	0.44
23:W:94:ILE:HG13	23:W:95:ASP:H	1.76	0.44
25:Y:493:LEU:HB3	25:Y:696:TRP:NE1	2.33	0.44
26:Z:366:GLN:HE22	26:Z:394:LEU:HD22	1.82	0.44
26:Z:470:SER:HA	26:Z:478:THR:CB	2.48	0.44
30:d:277:GLN:CB	31:e:56:THR:HG23	2.47	0.44
32:f:139:LEU:HD21	32:f:350:TRP:HZ2	1.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:409:ALA:HA	32:f:412:ARG:NH2	2.33	0.44
34:h:92:PRO:HA	34:h:95:ILE:HG22	2.00	0.44
1:A:89:PRO:C	1:A:204:THR:HG21	2.43	0.44
1:A:1345:ARG:HD2	1:A:1373:ASP:OD1	2.18	0.44
2:B:617:ARG:HG3	2:B:624:LEU:HD12	2.00	0.44
6:F:92:ARG:CZ	7:G:63:PRO:C	2.90	0.44
6:F:131:PRO:CG	7:G:18:PHE:HD2	2.31	0.44
14:N:62:TRP:O	14:N:64:THR:N	2.51	0.44
16:P:451:LEU:O	16:P:453:ILE:N	2.50	0.44
21:U:24:THR:C	37:k:24:TYR:CE1	2.96	0.44
25:Y:352:ILE:HB	25:Y:380:ARG:CD	2.48	0.44
25:Y:686:PHE:CD1	25:Y:687:SER:N	2.85	0.44
25:Y:708:LEU:HD23	25:Y:708:LEU:O	2.18	0.44
26:Z:374:PHE:CD1	26:Z:374:PHE:C	2.96	0.44
26:Z:456:THR:CG2	26:Z:457:TYR:H	2.30	0.44
26:Z:629:GLY:N	26:Z:657:VAL:HG11	2.33	0.44
26:Z:701:PHE:CZ	26:Z:732:ALA:CB	3.01	0.44
33:g:292:ILE:CA	33:g:295:PRO:CD	2.76	0.44
34:h:44:LYS:HZ1	34:h:54:LEU:HD13	1.83	0.44
34:h:156:LEU:C	34:h:157:VAL:CG2	2.91	0.44
35:i:236:LYS:HG3	35:i:245:TRP:CE2	2.53	0.44
1:A:22:PHE:HD2	2:B:1211:ASN:HA	1.83	0.44
1:A:66:LYS:CE	1:A:68:GLN:H	2.31	0.44
10:J:36:LEU:HD11	10:J:51:LEU:HB2	1.99	0.44
14:N:194:LYS:O	14:N:194:LYS:HG3	2.18	0.44
17:Q:97:LYS:CG	17:Q:243:ASN:ND2	2.64	0.44
20:T:126:LYS:HB2	23:W:132:GLY:O	2.18	0.44
21:U:112:TYR:HD2	21:U:165:TYR:HD1	1.65	0.44
25:Y:533:THR:HA	25:Y:534:PRO:HD2	1.80	0.44
25:Y:539:VAL:HG12	25:Y:623:ILE:HG12	1.92	0.44
25:Y:697:ILE:HG22	25:Y:698:ALA:O	2.18	0.44
26:Z:303:ARG:CD	26:Z:504:THR:CG2	2.94	0.44
30:d:267:VAL:HG22	30:d:269:ILE:HG13	2.00	0.44
32:f:138:ARG:CZ	33:g:57:LEU:HB3	2.47	0.44
33:g:82:ARG:NH2	33:g:120:TYR:OH	2.51	0.44
34:h:44:LYS:HD3	34:h:49:ILE:C	2.42	0.44
34:h:135:GLU:C	34:h:138:GLN:HG2	2.43	0.44
1:A:95:PHE:HE1	1:A:1414:ALA:CB	2.31	0.43
1:A:875:ALA:HB2	1:A:1366:ARG:CD	2.48	0.43
1:A:1441:PHE:CZ	6:F:89:GLU:HA	2.53	0.43
2:B:125:SER:HA	2:B:171:PRO:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:468:GLU:HG2	2:B:469:GLN:HB2	1.99	0.43
15:O:92:GLY:C	16:P:344:SER:CB	2.91	0.43
20:T:77:ASP:O	20:T:81:PHE:HD2	2.01	0.43
21:U:24:THR:C	37:k:24:TYR:CD1	2.91	0.43
21:U:79:PHE:CD1	21:U:79:PHE:C	2.96	0.43
22:V:90:LEU:O	22:V:94:ILE:HG13	2.17	0.43
25:Y:127:THR:CG2	25:Y:361:GLN:OE1	2.64	0.43
25:Y:288:LYS:HZ1	25:Y:336:LYS:HB2	1.83	0.43
25:Y:327:ARG:CB	25:Y:330:HIS:ND1	2.72	0.43
25:Y:653:PHE:CE1	25:Y:654:LEU:HB2	2.53	0.43
26:Z:335:TYR:HB3	26:Z:336:PRO:CD	2.47	0.43
26:Z:473:VAL:O	26:Z:478:THR:CB	2.63	0.43
26:Z:502:VAL:HA	26:Z:505:ILE:CG1	2.47	0.43
32:f:118:LEU:HD11	32:f:387:ILE:CD1	2.43	0.43
35:i:188:SER:N	35:i:189:PRO:HD2	2.32	0.43
36:j:99:PHE:CD1	39:m:142:DA:C4	3.06	0.43
36:j:215:THR:OG1	38:l:20:DA:H1'	2.18	0.43
1:A:211:PHE:HE2	1:A:234:MET:CE	2.30	0.43
1:A:399:HIS:CB	1:A:400:PRO:HD3	2.48	0.43
1:A:774:ARG:HH21	1:A:797:LYS:HB2	1.83	0.43
1:A:1025:ARG:O	1:A:1035:TYR:HE2	2.01	0.43
12:L:47:ARG:HG3	12:L:47:ARG:NH1	2.33	0.43
18:R:22:ASP:C	18:R:24:LEU:N	2.74	0.43
20:T:64:LYS:H	20:T:64:LYS:CD	2.31	0.43
22:V:76:ILE:CD1	22:V:97:ARG:CD	2.95	0.43
25:Y:261:THR:HA	25:Y:282:LEU:CD1	2.48	0.43
25:Y:499:LYS:HE2	25:Y:525:MET:CB	2.47	0.43
26:Z:351:ASP:CB	26:Z:482:TRP:CZ3	2.93	0.43
26:Z:372:LYS:HE3	26:Z:536:TYR:CD2	2.53	0.43
26:Z:373:MET:CG	26:Z:381:SER:CB	2.95	0.43
26:Z:378:ARG:NH2	26:Z:510:LYS:HE2	2.33	0.43
26:Z:448:THR:CG2	26:Z:449:GLU:N	2.80	0.43
26:Z:476:PHE:CZ	26:Z:493:VAL:CG1	2.97	0.43
26:Z:485:ILE:HG23	26:Z:507:ALA:HB1	1.98	0.43
26:Z:519:ARG:HB2	26:Z:521:ASP:OD1	2.17	0.43
26:Z:562:THR:CG2	26:Z:585:PRO:HD2	2.48	0.43
30:d:228:ASP:CG	30:d:229:TYR:H	2.25	0.43
34:h:85:VAL:O	34:h:85:VAL:HG23	2.17	0.43
35:i:125:SER:C	35:i:129:LEU:CD1	2.89	0.43
36:j:211:LYS:HG2	39:m:148:DT:C5'	2.48	0.43
1:A:93:VAL:HA	1:A:96:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1323:ASP:CG	1:A:1326:ARG:HG3	2.44	0.43
2:B:983:ARG:HD2	2:B:1091:TYR:HD2	1.84	0.43
8:H:105:GLU:HB3	8:H:113:ALA:HB3	2.00	0.43
16:P:494:PRO:O	16:P:495:LYS:CB	2.66	0.43
20:T:102:LYS:HE2	20:T:102:LYS:CA	2.48	0.43
21:U:126:LEU:HD11	23:W:19:PHE:CE2	2.53	0.43
22:V:133:LEU:CA	22:V:136:LYS:HE2	2.43	0.43
25:Y:68:LYS:NZ	25:Y:228:LYS:HE3	2.33	0.43
25:Y:233:ILE:HG12	25:Y:457:ILE:HD12	2.01	0.43
25:Y:338:LEU:HB2	25:Y:341:TYR:HD1	1.84	0.43
25:Y:526:LEU:HD12	25:Y:621:LEU:CD2	2.48	0.43
25:Y:656:PHE:HA	25:Y:659:MET:HG2	1.99	0.43
26:Z:376:ASN:HB3	26:Z:379:ALA:N	2.33	0.43
26:Z:425:LEU:HD12	26:Z:429:THR:HG23	1.96	0.43
30:d:42:TRP:CZ2	31:e:19:LEU:HG	2.53	0.43
32:f:374:VAL:CG2	32:f:386:MET:HE3	2.48	0.43
33:g:59:LEU:CD2	33:g:214:ILE:CD1	2.91	0.43
34:h:44:LYS:HE3	34:h:54:LEU:CB	2.47	0.43
34:h:51:LYS:HB2	35:i:244:VAL:HG11	2.00	0.43
1:A:130:ASP:HB3	1:A:133:LYS:HB2	2.00	0.43
1:A:534:LEU:O	1:A:574:GLY:HA3	2.17	0.43
1:A:1348:LEU:HG	1:A:1372:VAL:HG22	2.00	0.43
1:A:1426:GLU:H	1:A:1426:GLU:HG2	1.55	0.43
2:B:226:PHE:HA	2:B:395:GLN:CG	2.49	0.43
4:D:7:THR:HG23	7:G:7:LEU:HD23	1.99	0.43
5:E:181:ALA:HA	5:E:186:LEU:HD21	2.01	0.43
16:P:355:ALA:O	16:P:367:ASP:N	2.51	0.43
18:R:43:ARG:HH21	18:R:117:MET:CE	2.17	0.43
20:T:118:LEU:HD23	23:W:129:PHE:HB3	1.91	0.43
21:U:178:LEU:HB2	23:W:97:LEU:HD13	2.00	0.43
23:W:85:VAL:HG13	23:W:89:GLU:HB3	2.00	0.43
25:Y:21:GLN:CB	25:Y:53:LEU:HD21	2.48	0.43
25:Y:72:CYS:SG	25:Y:210:TYR:CE1	3.03	0.43
25:Y:436:ARG:CG	25:Y:437:PHE:N	2.81	0.43
25:Y:639:LEU:CG	25:Y:649:ARG:HB2	2.48	0.43
26:Z:410:LEU:HG	26:Z:457:TYR:CE1	2.52	0.43
26:Z:712:ASP:HB2	27:a:447:GLU:CD	2.42	0.43
34:h:27:LEU:HD23	34:h:129:THR:HB	2.00	0.43
34:h:145:THR:C	34:h:146:GLU:CD	2.85	0.43
34:h:151:LEU:HD22	34:h:152:CYS:CA	2.43	0.43
35:i:158:LYS:HD3	35:i:162:LEU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:j:99:PHE:CA	39:m:142:DA:N3	2.81	0.43
1:A:497:THR:HG22	2:B:1146:PHE:CD1	2.42	0.43
1:A:1443:VAL:HG13	6:F:133:VAL:O	2.18	0.43
2:B:521:LEU:HD22	2:B:633:VAL:HG12	2.01	0.43
2:B:900:ALA:CB	12:L:61:THR:OG1	2.67	0.43
2:B:980:PHE:CD1	2:B:1094:ARG:HA	2.54	0.43
8:H:4:THR:HA	8:H:60:ALA:HB2	2.00	0.43
8:H:15:VAL:HG22	8:H:26:ILE:HG13	2.00	0.43
17:Q:61:PRO:O	17:Q:300:VAL:HG23	2.18	0.43
17:Q:188:THR:HG21	18:R:104:ILE:HD13	2.00	0.43
18:R:47:LYS:HZ3	18:R:47:LYS:HG3	1.66	0.43
20:T:90:TYR:CD1	20:T:90:TYR:N	2.81	0.43
23:W:95:ASP:O	23:W:98:GLN:HB2	2.18	0.43
25:Y:250:LEU:C	25:Y:250:LEU:HD12	2.43	0.43
25:Y:657:ASP:O	25:Y:661:HIS:HD2	2.02	0.43
26:Z:438:PHE:HE1	26:Z:469:ASP:OD2	2.01	0.43
32:f:101:PHE:HB3	33:g:98:ASN:OD1	2.18	0.43
33:g:356:LYS:HZ3	33:g:356:LYS:HB2	1.83	0.43
34:h:128:LEU:N	34:h:128:LEU:CD2	2.77	0.43
34:h:135:GLU:HA	34:h:138:GLN:CG	2.48	0.43
35:i:158:LYS:HA	35:i:162:LEU:HB2	2.01	0.43
35:i:195:LEU:HD22	35:i:195:LEU:H	1.82	0.43
2:B:955:THR:HG22	2:B:956:THR:N	2.34	0.43
3:C:165:LYS:O	11:K:6:ARG:NH1	2.46	0.43
7:G:1:MET:HE1	7:G:80:LYS:C	2.37	0.43
8:H:38:LEU:CD1	8:H:123:MET:HE2	2.46	0.43
12:L:61:THR:CG2	12:L:63:ARG:HG2	2.48	0.43
14:N:166:GLU:O	14:N:167:TYR:C	2.61	0.43
16:P:238:MET:O	16:P:240:SER:N	2.52	0.43
17:Q:79:THR:O	17:Q:82:ASP:CA	2.67	0.43
17:Q:265:ILE:H	17:Q:265:ILE:CD1	2.15	0.43
20:T:42:LEU:HD23	22:V:105:ILE:HD11	1.91	0.43
20:T:82:GLU:HG3	20:T:83:ASN:N	2.32	0.43
20:T:111:THR:HA	22:V:143:LEU:CD2	2.29	0.43
21:U:110:THR:O	21:U:111:ASN:C	2.62	0.43
22:V:71:TYR:CE2	22:V:75:GLN:NE2	2.87	0.43
22:V:145:ARG:O	22:V:149:ARG:HG3	2.18	0.43
25:Y:212:TYR:O	25:Y:218:ILE:HG21	2.18	0.43
25:Y:568:LEU:HB2	25:Y:598:LEU:HD23	2.00	0.43
26:Z:474:MET:HG3	26:Z:505:ILE:HG22	2.01	0.43
26:Z:505:ILE:HD12	26:Z:510:LYS:HZ2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:Z:677:TYR:HA	26:Z:678:GLY:HA2	1.51	0.43
29:c:189:PHE:O	29:c:193:GLN:HG3	2.18	0.43
32:f:145:ARG:HG3	32:f:412:ARG:HH21	1.84	0.43
32:f:414:ASP:O	32:f:417:SER:O	2.37	0.43
35:i:134:TYR:HE2	35:i:147:LEU:HD23	1.83	0.43
1:A:407:ARG:HG2	1:A:430:TRP:CZ2	2.53	0.43
1:A:1148:ILE:HA	9:I:49:ILE:HD12	2.00	0.43
2:B:854:LEU:HD23	2:B:854:LEU:HA	1.86	0.43
2:B:1143:ALA:HB1	2:B:1146:PHE:HB3	2.01	0.43
13:M:138:GLY:O	13:M:153:TYR:N	2.48	0.43
17:Q:86:ASN:C	17:Q:89:ILE:CG1	2.92	0.43
18:R:62:PHE:HZ	18:R:201:ALA:CA	2.32	0.43
18:R:139:LEU:HD23	18:R:153:ILE:HG23	2.00	0.43
20:T:42:LEU:CD2	22:V:105:ILE:HD12	2.26	0.43
25:Y:123:GLU:O	25:Y:376:PHE:CZ	2.71	0.43
25:Y:191:CYS:O	25:Y:195:ILE:HG13	2.18	0.43
25:Y:232:VAL:O	25:Y:457:ILE:CB	2.64	0.43
25:Y:453:PHE:O	25:Y:453:PHE:CG	2.70	0.43
25:Y:670:LEU:HD21	25:Y:672:GLY:O	2.19	0.43
26:Z:424:PHE:HD1	26:Z:450:SER:HB3	1.75	0.43
26:Z:675:SER:CB	26:Z:722:ARG:HH22	2.31	0.43
26:Z:696:ARG:NH1	26:Z:704:PHE:HE1	1.69	0.43
32:f:377:SER:CB	33:g:70:LEU:CD2	2.96	0.43
34:h:151:LEU:CD1	34:h:151:LEU:N	2.74	0.43
35:i:179:LYS:HD3	35:i:179:LYS:O	2.19	0.43
1:A:58:LEU:HB3	1:A:59:GLY:H	1.25	0.43
1:A:449:SER:HA	1:A:454:SER:CB	2.49	0.43
1:A:873:MET:HB3	1:A:878:ILE:HD11	2.01	0.43
1:A:1443:VAL:O	7:G:62:LEU:C	2.61	0.43
22:V:76:ILE:CG2	22:V:77:ARG:N	2.82	0.43
22:V:135:ILE:CG2	22:V:136:LYS:N	2.82	0.43
23:W:99:LYS:C	23:W:101:LEU:N	2.72	0.43
25:Y:89:LEU:O	25:Y:101:GLU:N	2.52	0.43
25:Y:237:ALA:CA	25:Y:240:ILE:HG12	2.49	0.43
25:Y:289:LEU:HD22	25:Y:435:MET:HG3	2.00	0.43
25:Y:339:ILE:O	25:Y:343:LYS:HG3	2.18	0.43
25:Y:481:LYS:HD3	25:Y:483:TYR:CZ	2.51	0.43
26:Z:372:LYS:HE3	26:Z:536:TYR:HD2	1.83	0.43
26:Z:373:MET:SD	26:Z:511:LEU:HD13	2.59	0.43
32:f:108:LYS:HG3	33:g:95:ILE:HG13	1.94	0.43
32:f:333:LYS:NZ	39:m:131:DG:O5'	0.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:g:105:THR:HG21	33:g:119:GLU:CD	2.44	0.43
34:h:17:VAL:CG2	34:h:18:ARG:N	2.81	0.43
34:h:65:ARG:HB3	34:h:90:LYS:HD2	2.01	0.43
35:i:138:LYS:HE2	35:i:140:LYS:HE2	1.99	0.43
40:n:72:PRO:CA	40:n:73:PRO:CA	2.96	0.43
1:A:358:ASN:HB2	11:K:65:HIS:HD2	1.84	0.43
1:A:709:THR:HB	1:A:712:GLU:H	1.83	0.43
3:C:251:LEU:O	3:C:255:VAL:HG23	2.19	0.43
16:P:341:TYR:CB	16:P:353:GLY:C	2.90	0.43
20:T:79:ALA:HA	20:T:82:GLU:HG2	2.00	0.43
26:Z:438:PHE:HE1	26:Z:469:ASP:CG	2.27	0.43
32:f:347:PHE:CE1	32:f:364:SER:CB	3.01	0.43
32:f:357:GLY:O	40:n:53:LYS:CA	2.67	0.43
34:h:67:ILE:N	34:h:67:ILE:CD1	2.82	0.43
35:i:218:ASP:HB3	35:i:223:GLN:CD	2.44	0.43
38:l:36:DG:H2'	38:l:37:DT:H72	2.01	0.43
1:A:33:ALA:HB2	1:A:57:ARG:HB2	2.01	0.43
1:A:41:MET:HE2	1:A:257:ARG:CZ	2.49	0.43
1:A:306:ASN:O	1:A:313:GLN:HG2	2.19	0.43
1:A:873:MET:C	1:A:1058:VAL:HG22	2.44	0.43
17:Q:61:PRO:HG2	17:Q:300:VAL:HG23	1.94	0.43
20:T:94:TYR:CD2	22:V:109:GLU:HB3	2.53	0.43
21:U:144:TYR:OH	23:W:26:ILE:CG2	2.67	0.43
25:Y:67:ARG:HD2	25:Y:230:SER:CA	2.49	0.43
25:Y:71:TYR:CZ	25:Y:233:ILE:CG2	3.02	0.43
25:Y:244:CYS:O	25:Y:248:LEU:HG	2.18	0.43
25:Y:267:LEU:C	25:Y:267:LEU:HD12	2.43	0.43
25:Y:639:LEU:CD1	25:Y:649:ARG:HH11	2.20	0.43
26:Z:303:ARG:NE	26:Z:471:GLN:HG3	2.34	0.43
26:Z:320:ASN:HD22	26:Z:321:GLU:H	1.65	0.43
26:Z:356:LEU:HB3	26:Z:427:TRP:HD1	1.82	0.43
26:Z:373:MET:HE2	26:Z:384:ILE:HD11	2.01	0.43
26:Z:407:VAL:CB	26:Z:451:GLY:HA2	2.48	0.43
26:Z:421:ARG:CZ	26:Z:430:LEU:HD21	2.49	0.43
26:Z:429:THR:CG2	26:Z:430:LEU:N	2.81	0.43
26:Z:457:TYR:O	26:Z:458:SER:HB3	2.19	0.43
32:f:374:VAL:CG2	33:g:75:MET:SD	2.98	0.43
34:h:27:LEU:CD2	34:h:127:CYS:O	2.61	0.43
35:i:135:ILE:CD1	35:i:180:TYR:HB2	2.44	0.43
35:i:231:LEU:HD21	35:i:234:ARG:HE	1.82	0.43
1:A:11:LEU:HD21	2:B:1195:HIS:HD2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:PHE:HB2	2:B:1211:ASN:O	2.18	0.42
2:B:171:PRO:HG2	2:B:461:LEU:HD12	2.01	0.42
7:G:93:SER:OG	7:G:100:GLU:HB2	2.18	0.42
17:Q:83:LYS:HG3	17:Q:84:PRO:CD	2.46	0.42
25:Y:200:ILE:C	25:Y:226:VAL:HB	2.44	0.42
25:Y:383:LEU:HD23	25:Y:383:LEU:O	2.19	0.42
25:Y:486:THR:HG21	25:Y:670:LEU:HD21	2.00	0.42
25:Y:625:ILE:CG2	25:Y:626:PRO:HD2	2.49	0.42
26:Z:427:TRP:CH2	26:Z:450:SER:CB	2.95	0.42
26:Z:474:MET:HB2	26:Z:481:GLU:N	2.34	0.42
26:Z:562:THR:OG1	26:Z:565:PHE:CD1	2.72	0.42
29:c:135:MET:HE3	29:c:135:MET:HB2	1.92	0.42
30:d:229:TYR:C	36:j:90:ARG:HG3	2.44	0.42
32:f:119:LEU:CD2	32:f:390:ASP:HB2	2.49	0.42
32:f:358:TYR:CD2	32:f:359:ASN:N	2.85	0.42
32:f:374:VAL:CG2	32:f:386:MET:HE2	2.41	0.42
33:g:312:TYR:CD2	35:i:151:LEU:CA	2.73	0.42
33:g:336:VAL:O	33:g:352:ARG:N	2.41	0.42
35:i:156:ASP:C	35:i:159:VAL:HG13	2.30	0.42
36:j:169:PRO:HB2	36:j:239:LYS:HB2	2.01	0.42
38:l:42:DT:H2'	38:l:43:DT:H72	2.00	0.42
1:A:541:ILE:HG21	1:A:549:MET:CE	2.49	0.42
1:A:729:ALA:HA	1:A:732:LEU:HD12	2.01	0.42
2:B:935:ARG:H	2:B:935:ARG:HD2	1.84	0.42
3:C:148:ARG:HG3	3:C:151:GLN:HG3	2.01	0.42
17:Q:78:GLU:HG2	17:Q:80:MET:N	2.35	0.42
21:U:147:LYS:HA	21:U:147:LYS:HD3	1.61	0.42
21:U:162:LEU:HG	23:W:8:LEU:HD23	2.00	0.42
22:V:112:LYS:CE	22:V:119:PRO:HG3	2.49	0.42
22:V:132:GLU:HA	22:V:135:ILE:HG22	2.02	0.42
25:Y:61:MET:HB2	25:Y:231:ILE:HD11	2.01	0.42
25:Y:660:ARG:O	25:Y:664:GLN:HG2	2.18	0.42
26:Z:327:LYS:CG	26:Z:506:ALA:N	2.82	0.42
26:Z:378:ARG:N	26:Z:381:SER:CB	2.82	0.42
26:Z:456:THR:CG2	26:Z:457:TYR:N	2.81	0.42
26:Z:477:LEU:CD1	26:Z:477:LEU:N	2.82	0.42
33:g:295:PRO:O	33:g:299:ILE:CB	2.67	0.42
36:j:153:THR:HG22	36:j:154:ASP:CG	2.44	0.42
38:l:59:DT:O4'	38:l:60:DT:H5'	2.18	0.42
39:m:124:DA:C4	39:m:125:DT:C6	3.07	0.42
1:A:867:ILE:HD13	1:A:1000:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1444:MET:HG3	7:G:61:ILE:O	1.99	0.42
3:C:184:ASN:ND2	3:C:189:THR:O	2.52	0.42
5:E:10:SER:O	5:E:14:ARG:HG3	2.19	0.42
17:Q:287:GLU:HG3	17:Q:287:GLU:O	2.19	0.42
20:T:97:LEU:C	20:T:100:ILE:HG12	2.44	0.42
21:U:25:GLN:CA	37:k:24:TYR:CD2	2.96	0.42
21:U:143:MET:O	21:U:144:TYR:C	2.60	0.42
21:U:203:LEU:HD12	21:U:203:LEU:HA	1.92	0.42
23:W:74:ASN:C	23:W:76:LEU:N	2.75	0.42
25:Y:218:ILE:CG2	25:Y:219:ALA:N	2.82	0.42
26:Z:393:THR:O	26:Z:397:ILE:HG13	2.19	0.42
26:Z:459:MET:HB2	26:Z:464:ARG:CZ	2.49	0.42
26:Z:475:ASP:CA	26:Z:478:THR:H	2.33	0.42
26:Z:562:THR:OG1	26:Z:565:PHE:HB2	2.19	0.42
34:h:14:LYS:CE	34:h:151:LEU:HB3	2.39	0.42
35:i:184:TYR:CE2	35:i:186:VAL:N	2.76	0.42
35:i:186:VAL:CG1	35:i:189:PRO:CD	2.93	0.42
1:A:332:LYS:HA	1:A:337:ARG:HB2	2.00	0.42
2:B:65:GLU:HG3	2:B:66:ASP:H	1.84	0.42
2:B:341:LEU:HD11	2:B:343:ILE:HB	2.02	0.42
8:H:16:ASP:HA	8:H:17:PRO:HD3	1.92	0.42
8:H:125:LEU:HG	8:H:130:ARG:HH22	1.85	0.42
17:Q:212:GLU:HG2	17:Q:213:PHE:HD1	1.85	0.42
17:Q:236:TRP:NE1	17:Q:245:GLN:HB2	2.33	0.42
17:Q:298:SER:C	17:Q:299:ARG:O	2.62	0.42
18:R:48:ASN:HD22	18:R:48:ASN:HA	1.63	0.42
25:Y:75:THR:O	25:Y:79:ILE:HG13	2.19	0.42
25:Y:140:GLN:OE1	25:Y:140:GLN:HA	2.19	0.42
25:Y:184:TYR:CE1	25:Y:190:LEU:HD21	2.54	0.42
25:Y:184:TYR:HE1	25:Y:190:LEU:HD21	1.85	0.42
26:Z:335:TYR:HD1	26:Z:336:PRO:CD	2.23	0.42
33:g:74:PRO:HG2	33:g:223:GLN:CB	2.48	0.42
39:m:130:DC:H2"	39:m:131:DG:H5"	2.01	0.42
1:A:339:ASN:HB3	2:B:1117:GLN:HE22	1.84	0.42
1:A:481:ASP:OD1	1:A:485:ASP:OD1	2.37	0.42
1:A:1438:THR:HB	2:B:1142:GLY:O	2.19	0.42
2:B:169:ARG:HB2	2:B:454:THR:HG23	2.01	0.42
2:B:273:LEU:HD12	2:B:280:ILE:HD12	2.02	0.42
2:B:802:PRO:HA	2:B:822:ASN:HD21	1.84	0.42
17:Q:189:ILE:HG12	18:R:87:ILE:HG23	2.02	0.42
20:T:44:GLU:OE1	20:T:44:GLU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:349:LEU:CD1	25:Y:380:ARG:CD	2.91	0.42
25:Y:515:ASP:HB3	25:Y:516:PRO:HD2	2.01	0.42
25:Y:639:LEU:HD21	25:Y:649:ARG:NH1	2.34	0.42
26:Z:403:ILE:O	26:Z:404:LYS:HD2	2.19	0.42
26:Z:474:MET:O	26:Z:482:TRP:CG	2.73	0.42
26:Z:636:ARG:HE	26:Z:636:ARG:HB2	1.61	0.42
31:e:52:LEU:O	31:e:56:THR:CG2	2.68	0.42
32:f:114:MET:CE	32:f:387:ILE:HD13	2.41	0.42
34:h:56:PRO:HG3	35:i:237:LYS:CE	2.49	0.42
34:h:69:ILE:CG2	34:h:70:HIS:N	2.83	0.42
34:h:120:ASN:CB	34:h:133:GLN:HB3	2.41	0.42
35:i:135:ILE:O	35:i:139:GLY:CA	2.67	0.42
39:m:125:DT:C4	39:m:126:DC:N4	2.88	0.42
21:U:65:LEU:HD23	21:U:65:LEU:N	2.35	0.42
26:Z:313:VAL:CG1	26:Z:314:HIS:CE1	3.02	0.42
26:Z:397:ILE:HD13	26:Z:423:GLN:HE21	1.83	0.42
26:Z:429:THR:HG22	26:Z:431:GLN:H	1.85	0.42
34:h:29:LEU:HD13	34:h:61:LEU:HD13	2.02	0.42
34:h:51:LYS:NZ	35:i:245:TRP:O	2.52	0.42
37:k:9:SER:O	37:k:10:TYR:C	2.62	0.42
39:m:106:DA:C8	39:m:106:DA:OP2	2.73	0.42
1:A:239:LEU:HD12	1:A:239:LEU:HA	1.77	0.42
1:A:332:LYS:O	1:A:333:GLU:HB2	2.19	0.42
2:B:915:THR:O	2:B:917:PRO:HD3	2.19	0.42
3:C:125:MET:HE3	3:C:125:MET:HA	2.02	0.42
3:C:149:LYS:C	3:C:151:GLN:H	2.28	0.42
6:F:82:THR:HG22	6:F:83:PRO:HD2	2.01	0.42
17:Q:88:ARG:C	17:Q:88:ARG:HD3	2.45	0.42
18:R:53:VAL:HG12	18:R:54:SER:N	2.32	0.42
20:T:43:TYR:CE1	22:V:105:ILE:CD1	3.02	0.42
21:U:113:GLN:OE1	23:W:83:VAL:O	2.38	0.42
23:W:92:ARG:HG3	23:W:93:LYS:N	2.35	0.42
25:Y:108:LEU:HD13	25:Y:196:VAL:HG12	2.02	0.42
25:Y:203:CYS:HG	25:Y:226:VAL:HG23	1.84	0.42
25:Y:335:LEU:HD13	25:Y:335:LEU:N	2.29	0.42
26:Z:417:VAL:HG13	26:Z:454:VAL:HG12	1.98	0.42
26:Z:427:TRP:CZ3	26:Z:450:SER:HB2	2.52	0.42
29:c:123:ASP:HA	29:c:126:VAL:HG23	2.02	0.42
32:f:347:PHE:HE1	32:f:364:SER:OG	1.95	0.42
32:f:374:VAL:HG21	33:g:73:LEU:CD1	2.50	0.42
33:g:318:LEU:HD13	33:g:349:TYR:CE2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:i:135:ILE:HG12	35:i:180:TYR:CB	2.38	0.42
36:j:186:GLU:HA	36:j:187:PRO:HD2	1.79	0.42
1:A:194:ALA:HA	1:A:195:ASP:C	2.45	0.42
1:A:260:ASP:OD1	1:A:328:ARG:NH2	2.42	0.42
1:A:420:ARG:HH12	17:Q:174:ALA:CB	2.25	0.42
1:A:562:THR:O	1:A:576:GLN:NE2	2.53	0.42
2:B:279:ASP:OD1	2:B:279:ASP:N	2.53	0.42
2:B:841:MET:HG2	2:B:1010:LEU:HD12	2.01	0.42
3:C:99:LEU:HB3	3:C:118:LEU:HD22	2.02	0.42
17:Q:268:ILE:HD12	17:Q:268:ILE:HA	1.84	0.42
18:R:72:ILE:HD11	18:R:202:TYR:HB2	1.84	0.42
20:T:39:LYS:HZ3	22:V:115:LEU:HA	1.83	0.42
20:T:92:ASN:O	20:T:95:ARG:HB2	2.19	0.42
21:U:26:SER:HB2	37:k:25:SER:N	2.34	0.42
21:U:124:LYS:CG	21:U:125:SER:N	2.83	0.42
21:U:146:ARG:O	21:U:149:GLU:HB3	2.20	0.42
22:V:144:TYR:CD2	22:V:144:TYR:C	2.97	0.42
25:Y:215:ASP:C	25:Y:218:ILE:HG22	2.40	0.42
25:Y:499:LYS:HE2	25:Y:525:MET:HB2	2.01	0.42
26:Z:349:ASN:O	26:Z:481:GLU:HA	2.19	0.42
26:Z:638:ASN:ND2	26:Z:638:ASN:O	2.49	0.42
30:d:243:LEU:HD21	30:d:245:LEU:HD21	2.02	0.42
31:e:85:VAL:O	31:e:106:ILE:N	2.44	0.42
32:f:396:THR:OG1	32:f:401:TYR:CZ	2.72	0.42
33:g:69:TRP:CE3	33:g:219:CYS:HB2	2.54	0.42
34:h:120:ASN:HD22	34:h:120:ASN:N	2.18	0.42
34:h:141:ASN:O	34:h:145:THR:N	2.50	0.42
35:i:131:ALA:HB2	35:i:151:LEU:HD13	2.01	0.42
35:i:186:VAL:HG12	35:i:188:SER:H	1.84	0.42
36:j:118:SER:CB	38:l:24:DT:C4'	2.58	0.42
2:B:383:ASN:O	2:B:387:LEU:HB2	2.19	0.42
5:E:167:ARG:HD3	5:E:167:ARG:HA	1.78	0.42
12:L:54:ARG:H	12:L:54:ARG:HG3	1.56	0.42
16:P:451:LEU:C	16:P:453:ILE:N	2.77	0.42
17:Q:31:PRO:HG3	17:Q:87:PHE:HE1	1.83	0.42
17:Q:81:MET:HG3	17:Q:88:ARG:CZ	2.50	0.42
17:Q:94:THR:HA	17:Q:245:GLN:HE22	1.85	0.42
20:T:63:PHE:CD1	20:T:66:ASN:OD1	2.73	0.42
20:T:97:LEU:HA	20:T:100:ILE:CG1	2.50	0.42
21:U:73:ASN:HD22	21:U:75:GLN:CG	2.32	0.42
21:U:146:ARG:HD2	21:U:149:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:202:LYS:HA	21:U:202:LYS:HD2	1.91	0.42
22:V:117:LYS:HE3	22:V:121:GLU:C	2.45	0.42
25:Y:62:HIS:CD2	25:Y:69:ILE:CG1	3.03	0.42
25:Y:353:SER:OG	25:Y:381:LEU:HD13	2.20	0.42
26:Z:407:VAL:CG2	26:Z:408:ILE:N	2.82	0.42
26:Z:424:PHE:CB	26:Z:435:CYS:SG	3.07	0.42
26:Z:427:TRP:HE3	26:Z:427:TRP:H	1.65	0.42
26:Z:474:MET:CB	26:Z:479:GLY:C	2.93	0.42
26:Z:481:GLU:O	26:Z:482:TRP:CE3	2.73	0.42
26:Z:619:ALA:CA	26:Z:622:MET:HE2	2.49	0.42
33:g:343:GLY:C	33:g:345:TYR:H	2.27	0.42
34:h:152:CYS:O	34:h:153:ASP:C	2.61	0.42
35:i:134:TYR:OH	35:i:150:TYR:CD2	2.64	0.42
35:i:143:LEU:CD1	35:i:144:VAL:H	2.18	0.42
36:j:190:PHE:CE2	38:l:18:DA:N3	2.88	0.42
1:A:469:ARG:NH2	2:B:991:GLY:O	2.53	0.42
3:C:88:CYS:HB2	3:C:89:GLU:H	1.70	0.42
8:H:38:LEU:HD13	8:H:125:LEU:HD13	2.02	0.42
16:P:308:TYR:HA	16:P:362:GLU:CB	2.50	0.42
20:T:42:LEU:CD1	20:T:80:LEU:CD1	2.94	0.42
21:U:12:LEU:HG	21:U:12:LEU:O	2.19	0.42
21:U:161:LEU:C	21:U:163:ASN:N	2.76	0.42
22:V:144:TYR:O	22:V:145:ARG:C	2.63	0.42
22:V:147:LEU:C	22:V:147:LEU:CD2	2.93	0.42
23:W:31:GLY:HA2	23:W:34:ARG:HG2	2.02	0.42
23:W:92:ARG:O	23:W:95:ASP:N	2.53	0.42
25:Y:59:TYR:CG	25:Y:62:HIS:NE2	2.87	0.42
25:Y:481:LYS:CD	25:Y:483:TYR:CD2	2.97	0.42
25:Y:566:HIS:C	25:Y:567:LYS:HG3	2.44	0.42
26:Z:425:LEU:HA	26:Z:429:THR:CA	2.49	0.42
26:Z:473:VAL:H	26:Z:478:THR:HG21	1.80	0.42
32:f:402:ALA:O	32:f:403:THR:C	2.63	0.42
32:f:404:LEU:HB3	32:f:412:ARG:NH2	2.15	0.42
34:h:21:TYR:CD2	34:h:64:ASP:OD2	2.73	0.42
34:h:62:ARG:HA	34:h:67:ILE:HD13	2.01	0.42
1:A:1340:GLY:HA2	5:E:183:PRO:HD2	2.01	0.41
1:A:1345:ARG:HG2	1:A:1372:VAL:HG12	2.01	0.41
2:B:986:GLN:OE1	2:B:1016:ALA:HB1	2.20	0.41
2:B:1221:SER:N	4:D:14:ARG:CZ	2.83	0.41
7:G:60:ARG:O	7:G:68:ALA:HA	2.19	0.41
20:T:91:ASP:CG	22:V:66:ILE:CG1	2.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:182:LEU:O	21:U:186:ARG:HG3	2.20	0.41
25:Y:131:GLU:OE2	25:Y:361:GLN:NE2	2.49	0.41
25:Y:625:ILE:HG23	25:Y:626:PRO:HD2	2.02	0.41
26:Z:326:VAL:CG1	26:Z:327:LYS:N	2.83	0.41
26:Z:460:VAL:HB	38:l:65:DA:C4'	2.32	0.41
26:Z:522:ASP:CA	26:Z:524:ILE:CD1	2.95	0.41
32:f:121:PHE:HE1	32:f:350:TRP:CD1	2.36	0.41
34:h:13:LEU:O	34:h:17:VAL:HG13	2.19	0.41
35:i:127:LYS:HD2	35:i:128:LEU:N	2.34	0.41
37:k:13:THR:O	37:k:14:SER:O	2.38	0.41
1:A:1317:MET:HE2	5:E:142:VAL:HG11	2.02	0.41
2:B:216:GLU:OE2	2:B:404:LYS:HD2	2.20	0.41
9:I:76:PRO:HD2	9:I:108:HIS:HD2	1.84	0.41
10:J:48:ARG:HH21	10:J:49:MET:HE1	1.85	0.41
12:L:61:THR:HG22	12:L:63:ARG:HG2	2.01	0.41
17:Q:224:MET:CE	17:Q:230:LEU:HD12	2.47	0.41
20:T:72:ASP:C	20:T:74:ILE:H	2.26	0.41
23:W:109:ILE:HG22	23:W:110:GLU:N	2.35	0.41
25:Y:142:LYS:HG2	25:Y:145:LEU:HD21	2.02	0.41
25:Y:168:GLU:HG2	25:Y:199:MET:SD	2.59	0.41
25:Y:349:LEU:C	25:Y:380:ARG:NH2	2.63	0.41
25:Y:494:PRO:O	25:Y:680:VAL:HA	2.20	0.41
26:Z:356:LEU:CD2	26:Z:356:LEU:N	2.83	0.41
26:Z:425:LEU:C	26:Z:425:LEU:CD2	2.93	0.41
26:Z:426:GLN:CA	26:Z:426:GLN:HE21	2.33	0.41
26:Z:448:THR:HG22	26:Z:449:GLU:H	1.83	0.41
26:Z:474:MET:CA	26:Z:479:GLY:C	2.93	0.41
26:Z:622:MET:HE2	26:Z:622:MET:HB2	1.76	0.41
32:f:123:SER:OG	32:f:129:PRO:HG2	2.20	0.41
32:f:139:LEU:CD1	32:f:350:TRP:CD1	3.03	0.41
33:g:127:LYS:HB3	33:g:221:GLU:CD	2.45	0.41
35:i:236:LYS:CG	35:i:245:TRP:CH2	3.02	0.41
1:A:78:PRO:C	2:B:1201:LYS:HZ3	2.21	0.41
1:A:133:LYS:HE3	1:A:1391:ARG:HH12	1.85	0.41
1:A:255:SER:HB3	29:c:86:LEU:HD12	2.02	0.41
1:A:413:ILE:HD13	1:A:424:ILE:HD11	2.01	0.41
2:B:190:TYR:CE2	2:B:196:PRO:HG3	2.55	0.41
2:B:350:GLN:HB2	32:f:407:ASP:OD2	2.20	0.41
2:B:509:ALA:O	2:B:511:PRO:HD3	2.20	0.41
4:D:158:GLU:HB3	37:k:2:SER:HA	2.02	0.41
6:F:92:ARG:NH1	7:G:63:PRO:HB3	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:392:ARG:N	16:P:476:ILE:HA	2.34	0.41
17:Q:187:GLU:HG2	17:Q:188:THR:N	2.34	0.41
19:S:30:ILE:C	19:S:32:ASP:H	2.28	0.41
20:T:84:VAL:CG1	20:T:85:LYS:N	2.83	0.41
22:V:132:GLU:C	22:V:135:ILE:HG22	2.45	0.41
25:Y:113:ASN:C	25:Y:114:LEU:HD12	2.46	0.41
25:Y:169:ASP:O	25:Y:173:LYS:HB2	2.19	0.41
25:Y:472:MET:HG2	25:Y:642:MET:CE	2.50	0.41
25:Y:639:LEU:CB	25:Y:653:PHE:HE2	2.01	0.41
26:Z:356:LEU:HD21	26:Z:448:THR:CG2	2.50	0.41
26:Z:377:GLY:C	26:Z:381:SER:CB	2.93	0.41
26:Z:410:LEU:CD1	26:Z:456:THR:C	2.93	0.41
26:Z:420:TRP:O	26:Z:424:PHE:CD2	2.73	0.41
26:Z:474:MET:CE	26:Z:482:TRP:N	2.83	0.41
26:Z:487:LEU:N	26:Z:487:LEU:CD1	2.82	0.41
26:Z:518:VAL:CG1	26:Z:519:ARG:N	2.83	0.41
33:g:333:LEU:HD21	33:g:349:TYR:HE2	1.86	0.41
34:h:40:GLU:N	34:h:87:TYR:CE1	2.88	0.41
34:h:152:CYS:O	34:h:154:GLU:N	2.54	0.41
34:h:154:GLU:OE1	34:h:154:GLU:HA	2.20	0.41
35:i:166:LEU:HD13	35:i:167:ASP:H	1.80	0.41
1:A:7:SER:HB2	2:B:1175:LEU:HD22	2.03	0.41
1:A:595:THR:OG1	1:A:603:ASN:HB3	2.19	0.41
1:A:1390:ASN:O	1:A:1399:ARG:HD2	2.20	0.41
2:B:315:LYS:N	2:B:316:PRO:HD2	2.36	0.41
2:B:848:ARG:HD2	10:J:8:PHE:O	2.20	0.41
2:B:1166:CYS:O	2:B:1168:LEU:N	2.42	0.41
3:C:125:MET:HB2	3:C:127:ARG:NE	2.36	0.41
17:Q:44:ASN:HA	17:Q:210:VAL:CG2	2.51	0.41
17:Q:94:THR:O	17:Q:95:ASN:HB2	2.20	0.41
17:Q:188:THR:HB	18:R:107:ILE:HD12	2.03	0.41
20:T:63:PHE:C	20:T:66:ASN:ND2	2.63	0.41
20:T:67:LEU:C	20:T:69:ILE:N	2.76	0.41
20:T:100:ILE:HD11	22:V:129:ARG:HG3	1.99	0.41
22:V:91:THR:HA	22:V:94:ILE:HD12	2.02	0.41
25:Y:161:ASN:O	25:Y:167:VAL:CG2	2.65	0.41
25:Y:458:ILE:HG21	25:Y:469:TYR:CZ	2.55	0.41
26:Z:356:LEU:HD22	26:Z:356:LEU:H	1.84	0.41
26:Z:370:LEU:C	26:Z:370:LEU:CD2	2.93	0.41
26:Z:457:TYR:CE2	26:Z:492:VAL:HB	2.56	0.41
29:c:174:ALA:O	29:c:178:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:e:71:PHE:HB3	36:j:93:GLU:HB3	2.01	0.41
33:g:292:ILE:HA	33:g:295:PRO:HD3	2.01	0.41
33:g:309:GLU:HA	35:i:137:LYS:HG3	1.09	0.41
34:h:27:LEU:HD22	34:h:129:THR:HA	0.44	0.41
35:i:156:ASP:CA	35:i:159:VAL:CG1	2.98	0.41
38:l:41:DA:C2'	38:l:42:DT:C5'	2.93	0.41
1:A:270:LEU:O	1:A:274:ILE:HG13	2.19	0.41
1:A:381:THR:HG22	1:A:384:ASN:CG	2.46	0.41
1:A:1404:GLU:HB3	1:A:1408:ILE:HG13	2.02	0.41
2:B:563:MET:CE	2:B:580:VAL:HB	2.51	0.41
2:B:986:GLN:NE2	2:B:1022:THR:HG21	2.36	0.41
4:D:175:PHE:HZ	7:G:85:GLU:HG3	1.86	0.41
9:I:17:ARG:NE	40:n:20:GLU:CA	2.83	0.41
20:T:97:LEU:CA	20:T:100:ILE:HG12	2.50	0.41
20:T:122:HIS:C	23:W:131:ASP:O	2.63	0.41
23:W:22:THR:O	23:W:24:ASN:N	2.53	0.41
23:W:109:ILE:O	23:W:110:GLU:C	2.64	0.41
24:X:96:GLU:CG	37:k:18:SER:C	2.93	0.41
25:Y:335:LEU:O	25:Y:335:LEU:HD23	2.20	0.41
25:Y:496:ILE:CG2	25:Y:704:ALA:HB2	2.51	0.41
26:Z:300:ASP:H	26:Z:347:HIS:HA	1.85	0.41
26:Z:316:PHE:HZ	26:Z:321:GLU:HG2	1.86	0.41
26:Z:328:LYS:HA	26:Z:505:ILE:O	2.21	0.41
26:Z:328:LYS:CD	26:Z:530:LEU:HD23	2.50	0.41
26:Z:415:VAL:CG1	26:Z:416:SER:N	2.83	0.41
26:Z:474:MET:H	26:Z:480:ARG:N	2.18	0.41
26:Z:698:ASP:O	26:Z:699:GLU:CB	2.68	0.41
34:h:147:PHE:HB2	34:h:156:LEU:HG	2.02	0.41
35:i:203:LYS:HB2	35:i:247:ASN:H	1.86	0.41
39:m:113:DA:H2''	39:m:114:DT:C6	2.55	0.41
1:A:11:LEU:HA	2:B:1193:GLN:O	2.19	0.41
1:A:11:LEU:HD21	2:B:1195:HIS:CD2	2.55	0.41
1:A:262:LEU:HG	1:A:328:ARG:NH2	2.35	0.41
1:A:497:THR:CG2	2:B:1146:PHE:CD1	3.03	0.41
1:A:871:ASP:CG	1:A:1366:ARG:HH22	2.28	0.41
1:A:1094:VAL:HG22	1:A:1113:THR:HB	2.03	0.41
1:A:1444:MET:CG	7:G:61:ILE:O	2.68	0.41
20:T:43:TYR:CD2	22:V:102:LYS:CD	3.03	0.41
20:T:94:TYR:HE2	20:T:98:GLN:HE21	1.67	0.41
21:U:73:ASN:HD22	21:U:75:GLN:HG3	1.85	0.41
25:Y:67:ARG:CD	25:Y:230:SER:HB2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:335:LEU:HD21	25:Y:342:LEU:HG	2.02	0.41
26:Z:344:ARG:HA	26:Z:344:ARG:NE	2.34	0.41
26:Z:354:ILE:CG2	26:Z:355:ASP:N	2.82	0.41
26:Z:403:ILE:O	26:Z:404:LYS:HG3	2.21	0.41
26:Z:434:ASN:C	26:Z:452:LEU:HD12	2.45	0.41
32:f:106:ILE:CG2	32:f:383:SER:HA	2.51	0.41
32:f:145:ARG:HB2	32:f:341:LYS:NZ	2.08	0.41
33:g:87:LEU:C	33:g:88:HIS:ND1	2.78	0.41
34:h:88:TYR:CE2	34:h:89:VAL:O	2.74	0.41
36:j:166:VAL:HG22	36:j:210:GLY:O	2.20	0.41
36:j:202:ILE:CD1	36:j:217:ALA:HB2	2.50	0.41
36:j:202:ILE:HD11	36:j:217:ALA:HB2	2.03	0.41
36:j:204:LEU:HA	36:j:213:VAL:O	2.20	0.41
38:l:58:DG:C1'	38:l:59:DT:C5'	2.85	0.41
1:A:10:PRO:HG2	2:B:1192:TYR:HD1	1.85	0.41
1:A:34:LYS:HG2	1:A:36:ARG:NH1	2.36	0.41
1:A:340:LEU:CD2	2:B:1199:ALA:HB3	2.50	0.41
2:B:311:LEU:HB3	9:I:4:PHE:HE2	1.85	0.41
2:B:904:ARG:HG3	2:B:948:ILE:HG13	2.02	0.41
3:C:47:ASP:C	12:L:69:ALA:CB	2.94	0.41
4:D:194:LEU:O	4:D:196:PRO:HD3	2.21	0.41
16:P:425:ILE:HA	16:P:428:GLN:CB	2.50	0.41
17:Q:97:LYS:CE	17:Q:237:GLN:O	2.68	0.41
18:R:52:ASP:OD1	18:R:53:VAL:N	2.53	0.41
21:U:121:LYS:O	21:U:124:LYS:N	2.53	0.41
25:Y:57:ILE:HD13	25:Y:57:ILE:O	2.21	0.41
25:Y:257:LEU:HD23	25:Y:257:LEU:HA	1.90	0.41
25:Y:353:SER:HB2	25:Y:381:LEU:H	1.85	0.41
25:Y:546:TYR:O	25:Y:550:ILE:HG12	2.20	0.41
26:Z:430:LEU:C	26:Z:430:LEU:CD2	2.94	0.41
29:c:199:LYS:O	29:c:201:LYS:N	2.54	0.41
30:d:286:VAL:OXT	30:d:286:VAL:HG12	2.21	0.41
32:f:108:LYS:HG2	33:g:95:ILE:CD1	2.50	0.41
34:h:58:ILE:HG21	34:h:87:TYR:CD2	2.55	0.41
35:i:140:LYS:HZ3	35:i:142:VAL:HG11	1.31	0.41
35:i:158:LYS:HD3	35:i:158:LYS:HA	1.68	0.41
1:A:332:LYS:HA	1:A:337:ARG:CB	2.50	0.41
2:B:642:ASP:HA	2:B:649:LYS:HA	2.02	0.41
2:B:789:MET:HG3	2:B:953:LEU:HD21	2.02	0.41
2:B:1111:MET:O	29:c:57:VAL:HG12	2.20	0.41
6:F:92:ARG:HH21	7:G:63:PRO:C	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:22:LEU:O	10:J:26:GLN:HG2	2.20	0.41
10:J:32:GLU:CD	10:J:32:GLU:H	2.29	0.41
11:K:12:LEU:HA	11:K:37:LYS:HG3	2.03	0.41
13:M:178:SER:O	16:P:214:ALA:CB	2.69	0.41
20:T:45:ASP:CG	20:T:76:THR:CG2	2.93	0.41
20:T:93:ILE:HD13	22:V:122:TRP:CG	2.54	0.41
22:V:135:ILE:C	22:V:135:ILE:CD1	2.94	0.41
25:Y:103:PHE:CD1	25:Y:205:ILE:CD1	2.86	0.41
25:Y:231:ILE:HG23	25:Y:457:ILE:HD11	1.93	0.41
25:Y:327:ARG:CB	25:Y:330:HIS:HD1	2.31	0.41
25:Y:420:ILE:HG13	25:Y:633:ARG:NH1	2.21	0.41
26:Z:459:MET:SD	39:m:104:DA:H4'	2.61	0.41
26:Z:478:THR:CG2	26:Z:479:GLY:N	2.81	0.41
26:Z:519:ARG:CG	26:Z:524:ILE:CG2	2.95	0.41
32:f:138:ARG:HG2	32:f:138:ARG:HH21	1.85	0.41
32:f:374:VAL:CG2	33:g:73:LEU:HD11	2.49	0.41
32:f:375:LEU:CD2	33:g:70:LEU:HD13	2.44	0.41
32:f:399:ASN:ND2	40:n:66:ASN:CA	2.84	0.41
34:h:49:ILE:CG2	34:h:50:ASN:N	2.82	0.41
35:i:138:LYS:HE2	35:i:140:LYS:HD2	2.01	0.41
35:i:186:VAL:HB	35:i:189:PRO:HG2	2.02	0.41
1:A:132:LYS:HZ1	1:A:1415:SER:HB2	1.86	0.41
1:A:354:SER:O	1:A:469:ARG:HA	2.21	0.41
1:A:369:SER:HB3	11:K:2:ASN:OD1	2.21	0.41
1:A:443:LEU:HD23	1:A:443:LEU:HA	1.94	0.41
1:A:598:LEU:HD23	1:A:598:LEU:HA	1.83	0.41
2:B:199:MET:SD	2:B:199:MET:N	2.90	0.41
2:B:856:PHE:CE2	2:B:969:ARG:HG3	2.55	0.41
2:B:1082:MET:HA	3:C:189:THR:HA	2.03	0.41
3:C:255:VAL:HG21	11:K:94:ILE:HG21	2.03	0.41
6:F:131:PRO:HG2	7:G:18:PHE:HD2	1.86	0.41
20:T:60:VAL:CG2	20:T:61:ASP:N	2.83	0.41
20:T:63:PHE:CD1	20:T:63:PHE:C	2.99	0.41
20:T:77:ASP:O	20:T:81:PHE:CD2	2.74	0.41
21:U:25:GLN:CB	37:k:24:TYR:HD2	2.02	0.41
21:U:70:MET:SD	24:X:23:PHE:CE2	3.09	0.41
21:U:156:VAL:O	21:U:157:ASN:C	2.64	0.41
22:V:66:ILE:O	22:V:70:PHE:HD1	2.03	0.41
25:Y:123:GLU:O	25:Y:376:PHE:HZ	2.04	0.41
25:Y:288:LYS:HZ1	25:Y:336:LYS:CB	2.34	0.41
25:Y:342:LEU:HD13	25:Y:342:LEU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Y:529:PHE:N	25:Y:529:PHE:HD1	2.19	0.41
25:Y:631:GLU:HG2	25:Y:636:LYS:NZ	2.36	0.41
26:Z:296:VAL:HG12	26:Z:297:ILE:N	2.34	0.41
26:Z:316:PHE:CE2	26:Z:317:GLU:O	2.74	0.41
26:Z:326:VAL:HG12	26:Z:327:LYS:H	1.84	0.41
26:Z:328:LYS:HG3	26:Z:329:ARG:N	2.35	0.41
26:Z:434:ASN:O	26:Z:452:LEU:CG	2.69	0.41
26:Z:435:CYS:HA	26:Z:452:LEU:HG	2.01	0.41
26:Z:474:MET:CG	26:Z:505:ILE:HG22	2.51	0.41
26:Z:475:ASP:OD1	26:Z:482:TRP:CD1	2.73	0.41
26:Z:484:PHE:CE1	26:Z:485:ILE:O	2.74	0.41
26:Z:484:PHE:HE1	26:Z:486:ILE:CG1	2.29	0.41
26:Z:524:ILE:CD1	26:Z:524:ILE:H	2.33	0.41
29:c:62:GLU:O	29:c:65:THR:OG1	2.30	0.41
34:h:28:VAL:CG2	34:h:57:LEU:HD13	2.50	0.41
34:h:39:ALA:HA	34:h:87:TYR:CE1	2.55	0.41
34:h:61:LEU:HB3	34:h:67:ILE:HD12	2.03	0.41
35:i:203:LYS:HB3	35:i:246:TYR:HA	2.02	0.41
35:i:231:LEU:CA	35:i:232:VAL:HB	2.49	0.41
37:k:19:PRO:C	37:k:20:THR:HG1	2.19	0.41
38:l:33:DA:H2"	38:l:34:DA:H8	1.86	0.41
38:l:58:DG:H2"	38:l:59:DT:H71	2.02	0.41
1:A:36:ARG:NH2	1:A:57:ARG:NH2	2.69	0.41
1:A:227:VAL:HG11	4:D:16:LYS:HE3	2.02	0.41
1:A:243:PRO:HB2	1:A:245:PRO:HD2	2.02	0.41
1:A:1111:MET:HE3	1:A:1111:MET:HB2	2.01	0.41
4:D:43:GLU:H	4:D:43:GLU:HG3	1.70	0.41
4:D:165:GLN:NE2	37:k:1:PRO:H3	2.14	0.41
7:G:14:HIS:CD2	7:G:15:PRO:HD2	2.56	0.41
11:K:39:ASP:OD1	11:K:41:THR:HB	2.21	0.41
21:U:144:TYR:OH	23:W:26:ILE:HG22	2.21	0.41
24:X:37:GLN:O	24:X:40:THR:HB	2.20	0.41
25:Y:537:MET:SD	25:Y:621:LEU:CD1	2.89	0.41
25:Y:603:ARG:NH2	25:Y:629:TYR:HH	2.13	0.41
26:Z:485:ILE:CG1	26:Z:510:LYS:HA	2.50	0.41
29:c:154:TYR:OH	29:c:168:MET:HE1	2.21	0.41
33:g:59:LEU:CG	33:g:214:ILE:HG13	2.50	0.41
34:h:67:ILE:HG22	34:h:89:VAL:HA	2.02	0.41
1:A:36:ARG:NH2	1:A:57:ARG:CZ	2.81	0.40
1:A:441:PRO:HD2	1:A:498:ARG:CZ	2.51	0.40
1:A:1447:GLU:CB	7:G:22:MET:SD	3.07	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:979:LYS:HD3	2:B:1095:LEU:HD13	2.03	0.40
2:B:1119:VAL:HG23	2:B:1126:GLY:HA2	2.03	0.40
3:C:75:MET:HE1	3:C:239:PRO:HG3	2.03	0.40
5:E:178:ILE:HG12	5:E:185:ALA:HB2	2.03	0.40
9:I:8:ARG:O	9:I:9:ASP:CB	2.69	0.40
13:M:167:PHE:HA	13:M:170:VAL:CB	2.50	0.40
17:Q:236:TRP:CD1	17:Q:245:GLN:HB2	2.56	0.40
18:R:79:VAL:HG21	18:R:198:CYS:SG	2.61	0.40
20:T:97:LEU:O	20:T:100:ILE:HG12	2.20	0.40
20:T:118:LEU:CD2	23:W:129:PHE:CB	2.58	0.40
20:T:121:CYS:SG	20:T:122:HIS:N	2.94	0.40
21:U:174:LEU:C	21:U:176:MET:N	2.76	0.40
22:V:125:ILE:CG2	22:V:126:ILE:HD12	2.39	0.40
22:V:143:LEU:HD12	22:V:144:TYR:CA	2.50	0.40
24:X:84:LEU:HD23	24:X:84:LEU:HA	1.76	0.40
25:Y:106:LEU:HD13	25:Y:107:GLY:O	2.22	0.40
25:Y:127:THR:HG23	25:Y:361:GLN:CD	2.43	0.40
25:Y:216:PRO:O	25:Y:220:GLU:HG2	2.22	0.40
25:Y:274:VAL:CG1	25:Y:275:ARG:N	2.73	0.40
25:Y:352:ILE:C	25:Y:380:ARG:NH1	2.79	0.40
25:Y:666:LEU:HD13	25:Y:666:LEU:O	2.21	0.40
26:Z:429:THR:HB	26:Z:432:PRO:CG	2.51	0.40
26:Z:519:ARG:N	26:Z:524:ILE:CG2	2.84	0.40
29:c:177:LEU:HD13	29:c:189:PHE:HD1	1.86	0.40
1:A:49:LYS:NZ	1:A:61:ILE:HG13	2.36	0.40
1:A:1196:GLU:HA	1:A:1236:LEU:O	2.21	0.40
2:B:39:ARG:HE	2:B:665:GLU:HG2	1.86	0.40
2:B:681:TRP:HA	2:B:684:LEU:HD12	2.03	0.40
2:B:758:PHE:CE1	2:B:1044:ALA:HA	2.56	0.40
8:H:89:LEU:C	8:H:91:ASP:N	2.79	0.40
13:M:138:GLY:O	13:M:152:ASP:CB	2.69	0.40
14:N:100:LYS:CB	16:P:251:PRO:CB	2.99	0.40
16:P:196:THR:CB	16:P:200:PHE:H	2.33	0.40
20:T:126:LYS:HG3	23:W:133:ILE:HB	2.03	0.40
21:U:182:LEU:HG	21:U:186:ARG:NH1	2.36	0.40
23:W:20:CYS:C	23:W:22:THR:H	2.29	0.40
25:Y:259:ARG:CB	25:Y:379:GLU:OE2	2.60	0.40
25:Y:515:ASP:HB2	25:Y:518:ILE:HG13	2.03	0.40
26:Z:335:TYR:CZ	26:Z:339:GLU:OE2	2.74	0.40
26:Z:387:PRO:HD2	26:Z:390:ALA:HB2	2.03	0.40
26:Z:619:ALA:CA	26:Z:622:MET:CE	2.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:f:378:VAL:CG2	32:f:384:PHE:CE2	3.04	0.40
34:h:37:VAL:HG12	34:h:88:TYR:CB	2.46	0.40
34:h:44:LYS:CE	34:h:44:LYS:CA	2.95	0.40
34:h:140:LEU:HD13	34:h:147:PHE:CE1	2.55	0.40
34:h:149:CYS:HB3	34:h:154:GLU:H	1.87	0.40
35:i:127:LYS:HE3	35:i:127:LYS:HB3	1.60	0.40
36:j:112:THR:HG1	39:m:145:DA:H5'	1.83	0.40
36:j:158:GLN:NE2	38:l:22:DA:H5'	2.36	0.40
36:j:163:SER:HA	36:j:212:ILE:O	2.22	0.40
1:A:346:ASP:OD1	2:B:1106:ARG:NH2	2.54	0.40
2:B:344:LYS:HB3	2:B:347:LYS:HB2	2.04	0.40
2:B:622:LYS:HE3	9:I:59:VAL:HG22	2.02	0.40
3:C:69:LEU:HD23	10:J:6:ARG:HB2	2.04	0.40
6:F:97:ARG:HD2	6:F:97:ARG:HA	1.82	0.40
13:M:113:THR:N	13:M:120:VAL:O	2.50	0.40
16:P:323:PHE:O	16:P:338:LYS:HA	2.21	0.40
20:T:85:LYS:C	20:T:85:LYS:CD	2.94	0.40
20:T:86:LEU:O	20:T:90:TYR:CE2	2.74	0.40
20:T:123:ASP:OD1	23:W:132:GLY:HA2	2.20	0.40
21:U:141:PRO:C	21:U:143:MET:H	2.28	0.40
21:U:194:GLN:O	21:U:197:LYS:N	2.53	0.40
22:V:71:TYR:HE2	22:V:75:GLN:NE2	2.19	0.40
22:V:112:LYS:CG	22:V:113:ASP:H	2.35	0.40
25:Y:230:SER:C	25:Y:455:SER:CB	2.82	0.40
25:Y:496:ILE:C	25:Y:686:PHE:HE2	2.29	0.40
26:Z:383:ILE:CD1	26:Z:533:PRO:C	2.93	0.40
26:Z:500:ARG:HA	26:Z:500:ARG:NE	2.30	0.40
26:Z:610:ASP:OD2	26:Z:674:SER:OG	2.39	0.40
30:d:45:LYS:O	30:d:49:THR:HG23	2.21	0.40
33:g:293:ARG:N	33:g:295:PRO:HD2	2.02	0.40
34:h:129:THR:HG21	34:h:149:CYS:SG	2.61	0.40
34:h:135:GLU:HA	34:h:138:GLN:NE2	2.37	0.40
36:j:84:THR:HG23	36:j:88:HIS:CD2	2.56	0.40
39:m:133:DT:H2'	39:m:134:DC:C5	2.56	0.40
2:B:406:LEU:HD12	2:B:633:VAL:HG22	2.03	0.40
2:B:758:PHE:CE2	2:B:1027:ILE:HG22	2.56	0.40
2:B:871:THR:HG22	2:B:872:GLU:O	2.21	0.40
2:B:1219:ASP:O	4:D:14:ARG:NH2	2.54	0.40
3:C:258:ILE:HG13	11:K:42:LEU:HD21	2.03	0.40
4:D:10:THR:HG22	4:D:12:ARG:HH22	1.87	0.40
8:H:104:PHE:CE1	8:H:136:LYS:HG3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:56:LYS:C	14:N:58:GLU:N	2.78	0.40
14:N:85:HIS:O	14:N:88:GLU:N	2.44	0.40
17:Q:207:LEU:HD21	18:R:78:MET:HE1	2.04	0.40
20:T:55:LYS:CA	20:T:60:VAL:CG1	2.94	0.40
20:T:94:TYR:O	20:T:98:GLN:HG2	2.22	0.40
21:U:161:LEU:O	21:U:164:GLU:N	2.55	0.40
25:Y:213:LEU:O	25:Y:219:ALA:HB2	2.21	0.40
25:Y:619:THR:HA	25:Y:678:VAL:O	2.22	0.40
25:Y:656:PHE:N	25:Y:659:MET:HE3	2.36	0.40
26:Z:305:GLU:HB2	26:Z:327:LYS:HE3	2.03	0.40
32:f:342:LEU:HB2	32:f:345:GLU:CD	2.47	0.40
34:h:148:LEU:O	34:h:149:CYS:C	2.63	0.40
35:i:130:TRP:C	35:i:151:LEU:HD12	2.37	0.40
38:l:60:DT:OP2	38:l:60:DT:C3'	2.70	0.40
38:l:68:DC:H2''	38:l:69:DA:C8	2.57	0.40
1:A:886:ILE:HD13	1:A:944:ARG:HG2	2.04	0.40
1:A:1036:ARG:HG2	1:A:1036:ARG:HH11	1.85	0.40
3:C:18:VAL:CG2	3:C:240:VAL:HB	2.49	0.40
3:C:99:LEU:HD12	3:C:118:LEU:HB3	2.02	0.40
7:G:83:LYS:HD3	7:G:149:GLY:HA2	2.04	0.40
21:U:134:ILE:HD13	21:U:134:ILE:HG21	1.88	0.40
22:V:100:LEU:C	22:V:100:LEU:CD1	2.94	0.40
25:Y:106:LEU:C	25:Y:106:LEU:HD12	2.46	0.40
25:Y:185:CYS:CB	25:Y:190:LEU:O	2.63	0.40
25:Y:338:LEU:HB2	25:Y:341:TYR:HB2	2.02	0.40
25:Y:493:LEU:HD22	25:Y:696:TRP:NE1	2.23	0.40
25:Y:499:LYS:HD3	25:Y:521:ASN:HB3	2.03	0.40
25:Y:631:GLU:CA	25:Y:636:LYS:HZ2	2.32	0.40
26:Z:410:LEU:CD2	26:Z:457:TYR:CD2	2.96	0.40
26:Z:474:MET:SD	26:Z:507:ALA:N	2.95	0.40
29:c:190:LYS:HE2	29:c:190:LYS:HB3	1.93	0.40
34:h:46:LEU:CD1	34:h:46:LEU:C	2.94	0.40
34:h:61:LEU:O	34:h:64:ASP:HB2	2.21	0.40
34:h:66:LEU:HD13	34:h:66:LEU:HA	1.84	0.40
35:i:183:THR:C	35:i:222:ASN:CG	2.89	0.40
36:j:99:PHE:HB2	39:m:143:DT:O5'	2.20	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	A	1414/1733 (82%)	1254 (89%)	112 (8%)	48 (3%)	3	21
2	B	1142/1224 (93%)	1022 (90%)	84 (7%)	36 (3%)	3	21
3	C	264/318 (83%)	242 (92%)	20 (8%)	2 (1%)	16	54
4	D	174/221 (79%)	149 (86%)	17 (10%)	8 (5%)	2	17
5	E	212/215 (99%)	195 (92%)	13 (6%)	4 (2%)	6	32
6	F	82/155 (53%)	75 (92%)	7 (8%)	0	100	100
7	G	169/171 (99%)	157 (93%)	9 (5%)	3 (2%)	6	34
8	H	129/146 (88%)	106 (82%)	14 (11%)	9 (7%)	1	11
9	I	117/122 (96%)	98 (84%)	16 (14%)	3 (3%)	4	25
10	J	63/70 (90%)	51 (81%)	9 (14%)	3 (5%)	2	16
11	K	113/120 (94%)	109 (96%)	4 (4%)	0	100	100
12	L	44/70 (63%)	19 (43%)	14 (32%)	11 (25%)	0	1
13	M	152/295 (52%)	115 (76%)	20 (13%)	17 (11%)	0	5
14	N	164/223 (74%)	133 (81%)	16 (10%)	15 (9%)	0	8
15	O	99/115 (86%)	92 (93%)	4 (4%)	3 (3%)	3	23
16	P	479/687 (70%)	385 (80%)	61 (13%)	33 (7%)	1	11
17	Q	249/307 (81%)	217 (87%)	25 (10%)	7 (3%)	4	24
18	R	207/210 (99%)	190 (92%)	12 (6%)	5 (2%)	4	27
19	S	105/121 (87%)	91 (87%)	7 (7%)	7 (7%)	1	12
20	T	89/284 (31%)	69 (78%)	20 (22%)	0	100	100
21	U	150/222 (68%)	127 (85%)	22 (15%)	1 (1%)	18	56
22	V	83/149 (56%)	73 (88%)	5 (6%)	5 (6%)	1	13
23	W	115/140 (82%)	95 (83%)	18 (16%)	2 (2%)	7	36
24	X	90/127 (71%)	86 (96%)	4 (4%)	0	100	100
25	Y	534/778 (69%)	503 (94%)	23 (4%)	8 (2%)	8	40

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	Z	461/843 (55%)	430 (93%)	26 (6%)	5 (1%)	11	46
27	a	60/513 (12%)	60 (100%)	0	0	100	100
28	b	61/72 (85%)	58 (95%)	3 (5%)	0	100	100
29	c	185/345 (54%)	164 (89%)	19 (10%)	2 (1%)	11	46
30	d	110/286 (38%)	103 (94%)	7 (6%)	0	100	100
31	e	97/122 (80%)	93 (96%)	4 (4%)	0	100	100
32	f	143/735 (20%)	130 (91%)	9 (6%)	4 (3%)	4	24
33	g	164/400 (41%)	148 (90%)	12 (7%)	4 (2%)	4	27
34	h	112/482 (23%)	100 (89%)	10 (9%)	2 (2%)	6	34
35	i	114/328 (35%)	102 (90%)	9 (8%)	3 (3%)	4	25
36	j	178/240 (74%)	170 (96%)	5 (3%)	3 (2%)	7	36
37	k	23/25 (92%)	9 (39%)	6 (26%)	8 (35%)	0	0
All	All	8147/12614 (65%)	7220 (89%)	666 (8%)	261 (3%)	5	21

All (261) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	74	MET
1	A	189	ARG
1	A	195	ASP
1	A	286	HIS
1	A	317	LYS
1	A	449	SER
1	A	628	GLY
1	A	1377	THR
1	A	1405	THR
2	B	229	ALA
2	B	307	ASP
2	B	344	LYS
2	B	442	PHE
2	B	466	TRP
2	B	473	MET
2	B	531	GLN
2	B	772	ALA
2	B	1046	PRO
2	B	1181	GLU
4	D	18	VAL
4	D	53	SER

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Mol	Chain	Res	Type
4	D	199	ASN
9	I	9	ASP
9	I	95	THR
12	L	50	ASP
12	L	53	HIS
12	L	59	ALA
13	M	5	PRO
13	M	7	ASP
13	M	13	SER
13	M	23	ARG
13	M	35	PRO
13	M	98	PRO
13	M	123	PRO
13	M	164	PRO
13	M	173	ARG
14	N	25	PHE
14	N	29	PRO
14	N	99	PRO
14	N	109	LEU
14	N	121	GLU
14	N	135	VAL
14	N	140	LEU
15	O	94	ASP
16	P	231	SER
16	P	251	PRO
16	P	252	SER
16	P	349	LYS
16	P	369	ILE
16	P	370	PRO
16	P	381	PHE
16	P	476	ILE
16	P	487	VAL
16	P	494	PRO
16	P	495	LYS
16	P	544	PRO
16	P	615	ARG
16	P	619	ILE
16	P	622	PRO
16	P	626	HIS
17	Q	56	ASN
17	Q	108	ILE
17	Q	177	ASN

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Mol	Chain	Res	Type
17	Q	299	ARG
18	R	204	TYR
19	S	19	VAL
19	S	47	GLU
19	S	102	LYS
19	S	104	ILE
22	V	84	SER
25	Y	494	PRO
25	Y	534	PRO
25	Y	572	GLU
26	Z	447	GLN
26	Z	458	SER
26	Z	699	GLU
29	c	200	THR
32	f	136	PRO
32	f	349	PRO
33	g	129	VAL
34	h	149	CYS
35	i	232	VAL
36	j	154	ASP
37	k	4	SER
37	k	14	SER
37	k	21	SER
1	A	40	THR
1	A	44	THR
1	A	51	GLY
1	A	52	GLY
1	A	66	LYS
1	A	68	GLN
1	A	167	CYS
1	A	178	GLY
1	A	193	ASP
1	A	224	PHE
1	A	252	PHE
1	A	254	GLU
1	A	330	LYS
1	A	672	ASP
1	A	1175	SER
1	A	1281	ARG
1	A	1437	GLY
2	B	262	GLU
2	B	282	ILE

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Mol	Chain	Res	Type
2	B	339	THR
2	B	341	LEU
2	B	707	PRO
2	B	731	VAL
2	B	792	MET
2	B	1175	LEU
2	B	1176	ASN
4	D	16	LYS
4	D	52	LEU
4	D	169	SER
5	E	36	GLU
7	G	2	PHE
8	H	17	PRO
8	H	81	PRO
8	H	82	PRO
8	H	83	GLN
8	H	90	ALA
10	J	6	ARG
12	L	35	SER
13	M	19	VAL
13	M	95	PHE
13	M	131	GLN
13	M	149	PRO
13	M	189	TYR
14	N	137	THR
14	N	138	ALA
15	O	42	GLU
16	P	420	ALA
16	P	457	VAL
16	P	472	GLU
16	P	493	LEU
16	P	585	PRO
16	P	638	PRO
17	Q	109	LEU
17	Q	261	ARG
18	R	187	ASP
22	V	110	ASP
25	Y	268	ASP
26	Z	378	ARG
26	Z	449	GLU
34	h	153	ASP
36	j	78	CYS

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Mol	Chain	Res	Type
37	k	10	TYR
37	k	15	PRO
37	k	19	PRO
37	k	20	THR
1	A	54	ASN
1	A	975	HIS
1	A	1173	HIS
2	B	340	ALA
2	B	343	ILE
2	B	711	GLU
2	B	1155	SER
2	B	1156	ASP
2	B	1157	ALA
2	B	1167	GLY
4	D	22	GLU
5	E	45	LYS
5	E	48	ASP
7	G	154	VAL
8	H	18	GLY
12	L	40	LEU
12	L	54	ARG
13	M	160	ILE
14	N	63	TYR
14	N	139	LEU
16	P	239	SER
16	P	392	ARG
16	P	403	TYR
16	P	478	LEU
16	P	627	LYS
18	R	56	LEU
25	Y	230	SER
25	Y	274	VAL
25	Y	483	TYR
32	f	114	MET
32	f	135	LEU
35	i	204	GLY
37	k	9	SER
1	A	69	THR
1	A	72	GLU
1	A	465	TYR
1	A	569	LYS
1	A	846	GLU

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Mol	Chain	Res	Type
1	A	958	VAL
1	A	1255	GLU
1	A	1438	THR
2	B	441	ASP
2	B	648	HIS
2	B	1108	ARG
3	C	88	CYS
9	I	91	ARG
10	J	29	GLU
12	L	43	THR
12	L	56	LEU
12	L	60	ARG
13	M	168	LYS
14	N	136	THR
16	P	192	GLU
16	P	247	LYS
16	P	248	VAL
16	P	452	LEU
16	P	574	SER
18	R	189	LEU
33	g	60	ASP
35	i	161	GLU
36	j	110	LYS
1	A	156	ASP
1	A	567	LYS
1	A	1171	GLN
1	A	1366	ARG
2	B	251	ILE
2	B	462	ALA
2	B	469	GLN
2	B	1223	ASP
4	D	21	GLU
8	H	60	ALA
8	H	128	ASN
10	J	2	ILE
14	N	123	ASP
15	O	100	GLU
16	P	551	PHE
18	R	135	LEU
19	S	32	ASP
19	S	100	ASP
22	V	111	THR

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Mol	Chain	Res	Type
22	V	118	SER
22	V	119	PRO
33	g	345	TYR
1	A	35	ILE
1	A	155	GLU
1	A	885	THR
3	C	214	ASN
12	L	28	LYS
12	L	46	VAL
21	U	111	ASN
23	W	132	GLY
29	c	164	LYS
1	A	196	GLU
1	A	1388	GLY
5	E	90	VAL
7	G	63	PRO
2	B	364	ILE
13	M	122	GLU
23	W	83	VAL
1	A	192	GLY
1	A	448	PRO
2	B	1121	GLY
14	N	28	VAL
14	N	97	PRO
25	Y	533	THR
2	B	1214	PRO
8	H	59	ILE
19	S	58	VAL
17	Q	83	LYS
33	g	343	GLY

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	A	1240/1520 (82%)	1052 (85%)	188 (15%)	3 12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	985/1061 (93%)	854 (87%)	131 (13%)	4	14
3	C	234/274 (85%)	204 (87%)	30 (13%)	4	15
4	D	160/200 (80%)	123 (77%)	37 (23%)	1	5
5	E	196/197 (100%)	173 (88%)	23 (12%)	5	18
6	F	74/137 (54%)	65 (88%)	9 (12%)	5	17
7	G	152/152 (100%)	136 (90%)	16 (10%)	6	21
8	H	117/128 (91%)	101 (86%)	16 (14%)	3	14
9	I	113/116 (97%)	105 (93%)	8 (7%)	13	35
10	J	60/65 (92%)	48 (80%)	12 (20%)	1	7
11	K	99/102 (97%)	86 (87%)	13 (13%)	4	15
12	L	40/57 (70%)	38 (95%)	2 (5%)	22	43
13	M	1/259 (0%)	1 (100%)	0	100	100
14	N	16/207 (8%)	14 (88%)	2 (12%)	4	16
17	Q	226/280 (81%)	202 (89%)	24 (11%)	6	21
18	R	177/178 (99%)	163 (92%)	14 (8%)	11	32
20	T	87/258 (34%)	81 (93%)	6 (7%)	14	36
21	U	149/208 (72%)	141 (95%)	8 (5%)	20	41
22	V	84/144 (58%)	78 (93%)	6 (7%)	13	35
23	W	113/132 (86%)	108 (96%)	5 (4%)	25	47
24	X	87/117 (74%)	82 (94%)	5 (6%)	18	40
25	Y	512/707 (72%)	503 (98%)	9 (2%)	51	68
26	Z	412/737 (56%)	376 (91%)	36 (9%)	9	29
27	a	57/468 (12%)	57 (100%)	0	100	100
28	b	57/66 (86%)	57 (100%)	0	100	100
29	c	136/299 (46%)	118 (87%)	18 (13%)	4	15
30	d	107/260 (41%)	104 (97%)	3 (3%)	38	60
31	e	91/108 (84%)	86 (94%)	5 (6%)	19	41
32	f	136/641 (21%)	135 (99%)	1 (1%)	76	81
33	g	162/363 (45%)	159 (98%)	3 (2%)	50	67
34	h	108/429 (25%)	90 (83%)	18 (17%)	2	10
35	i	113/295 (38%)	83 (74%)	30 (26%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
36	j	152/205 (74%)	143 (94%)	9 (6%)	18	39
37	k	25/25 (100%)	25 (100%)	0	100	100
All	All	6478/10395 (62%)	5791 (89%)	687 (11%)	9	21

All (687) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	THR
1	A	15	LYS
1	A	22	PHE
1	A	41	MET
1	A	42	ASP
1	A	53	LEU
1	A	54	ASN
1	A	64	ASN
1	A	66	LYS
1	A	68	GLN
1	A	74	MET
1	A	80	HIS
1	A	84	ILE
1	A	93	VAL
1	A	106	VAL
1	A	131	SER
1	A	134	ARG
1	A	145	LYS
1	A	147	VAL
1	A	152	VAL
1	A	157	ASP
1	A	173	THR
1	A	174	ILE
1	A	182	VAL
1	A	199	LEU
1	A	204	THR
1	A	205	GLU
1	A	208	LEU
1	A	219	PHE
1	A	220	THR
1	A	222	LEU
1	A	227	VAL
1	A	249	SER
1	A	257	ARG

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Mol	Chain	Res	Type
1	A	265	LYS
1	A	277	GLU
1	A	279	LEU
1	A	307	ASP
1	A	311	GLN
1	A	323	LYS
1	A	335	ARG
1	A	337	ARG
1	A	344	ARG
1	A	353	ILE
1	A	375	THR
1	A	381	THR
1	A	385	ILE
1	A	386	ASP
1	A	393	ARG
1	A	398	GLU
1	A	408	ASP
1	A	412	ARG
1	A	424	ILE
1	A	425	GLN
1	A	427	GLN
1	A	434	ARG
1	A	436	ILE
1	A	443	LEU
1	A	445	ASN
1	A	450	LEU
1	A	451	HIS
1	A	454	SER
1	A	461	LYS
1	A	469	ARG
1	A	470	LEU
1	A	472	LEU
1	A	474	VAL
1	A	475	THR
1	A	476	SER
1	A	489	LEU
1	A	500	GLU
1	A	505	CYS
1	A	512	VAL
1	A	513	SER
1	A	524	VAL
1	A	532	ARG

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Mol	Chain	Res	Type
1	A	566	ILE
1	A	571	LEU
1	A	582	ILE
1	A	593	GLU
1	A	596	THR
1	A	603	ASN
1	A	613	ILE
1	A	618	GLU
1	A	629	LEU
1	A	630	ILE
1	A	634	THR
1	A	652	VAL
1	A	664	THR
1	A	666	ILE
1	A	672	ASP
1	A	691	LEU
1	A	702	LEU
1	A	719	VAL
1	A	738	LYS
1	A	740	LEU
1	A	768	GLN
1	A	769	SER
1	A	773	LYS
1	A	782	ARG
1	A	788	SER
1	A	795	GLU
1	A	797	LYS
1	A	801	GLU
1	A	805	LEU
1	A	806	ARG
1	A	821	ARG
1	A	826	ASP
1	A	827	THR
1	A	831	THR
1	A	834	THR
1	A	837	ILE
1	A	839	ARG
1	A	848	ILE
1	A	849	MET
1	A	854	ASN
1	A	864	ILE
1	A	886	ILE

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Mol	Chain	Res	Type
1	A	896	ARG
1	A	919	ILE
1	A	920	LEU
1	A	926	GLN
1	A	929	LEU
1	A	948	VAL
1	A	949	ASP
1	A	964	ILE
1	A	973	ILE
1	A	976	THR
1	A	983	ILE
1	A	998	LEU
1	A	999	VAL
1	A	1009	ASN
1	A	1015	VAL
1	A	1029	ARG
1	A	1030	ARG
1	A	1047	SER
1	A	1058	VAL
1	A	1062	GLU
1	A	1067	LEU
1	A	1078	GLN
1	A	1094	VAL
1	A	1116	LEU
1	A	1118	VAL
1	A	1120	LEU
1	A	1121	GLU
1	A	1124	HIS
1	A	1135	ARG
1	A	1142	THR
1	A	1172	LEU
1	A	1173	HIS
1	A	1176	LEU
1	A	1195	LEU
1	A	1208	THR
1	A	1218	GLN
1	A	1223	ASP
1	A	1226	VAL
1	A	1237	ILE
1	A	1238	ILE
1	A	1242	VAL
1	A	1255	GLU

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Mol	Chain	Res	Type
1	A	1257	ASP
1	A	1260	LEU
1	A	1265	ASN
1	A	1273	LEU
1	A	1291	VAL
1	A	1295	THR
1	A	1297	GLU
1	A	1309	ASP
1	A	1315	GLU
1	A	1317	MET
1	A	1325	THR
1	A	1327	ILE
1	A	1336	MET
1	A	1341	ILE
1	A	1355	VAL
1	A	1376	THR
1	A	1382	THR
1	A	1386	ARG
1	A	1391	ARG
1	A	1393	ASN
1	A	1400	CYS
1	A	1405	THR
1	A	1406	VAL
1	A	1424	VAL
1	A	1426	GLU
1	A	1438	THR
1	A	1453	TYR
1	A	1454	MET
2	B	25	ILE
2	B	41	LYS
2	B	46	GLN
2	B	63	ILE
2	B	69	LEU
2	B	72	GLU
2	B	73	GLN
2	B	102	VAL
2	B	103	ASN
2	B	104	GLU
2	B	128	LEU
2	B	164	LYS
2	B	169	ARG
2	B	178	ASN

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Mol	Chain	Res	Type
2	B	183	GLU
2	B	211	VAL
2	B	240	ILE
2	B	251	ILE
2	B	261	ARG
2	B	267	ARG
2	B	272	THR
2	B	278	GLN
2	B	279	ASP
2	B	287	ARG
2	B	294	ASP
2	B	313	MET
2	B	324	ILE
2	B	325	GLN
2	B	337	ARG
2	B	341	LEU
2	B	343	ILE
2	B	344	LYS
2	B	348	ARG
2	B	357	GLN
2	B	365	THR
2	B	393	LYS
2	B	408	LEU
2	B	419	THR
2	B	425	THR
2	B	440	HIS
2	B	442	PHE
2	B	470	LYS
2	B	476	ARG
2	B	482	VAL
2	B	485	ARG
2	B	487	THR
2	B	502	ILE
2	B	513	GLN
2	B	529	GLU
2	B	531	GLN
2	B	537	LYS
2	B	542	MET
2	B	547	VAL
2	B	549	THR
2	B	552	MET
2	B	554	ILE

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Mol	Chain	Res	Type
2	B	563	MET
2	B	570	VAL
2	B	574	SER
2	B	595	ARG
2	B	596	LEU
2	B	601	ARG
2	B	603	LEU
2	B	609	ILE
2	B	612	GLU
2	B	615	MET
2	B	616	ILE
2	B	620	ARG
2	B	644	GLU
2	B	651	LEU
2	B	653	VAL
2	B	658	ILE
2	B	680	THR
2	B	708	GLU
2	B	734	HIS
2	B	737	THR
2	B	766	ARG
2	B	771	SER
2	B	776	GLN
2	B	786	ASN
2	B	790	ASP
2	B	791	THR
2	B	795	ILE
2	B	831	SER
2	B	835	GLN
2	B	839	MET
2	B	841	MET
2	B	844	SER
2	B	860	MET
2	B	933	SER
2	B	934	LYS
2	B	939	THR
2	B	942	ARG
2	B	944	THR
2	B	955	THR
2	B	956	THR
2	B	967	ARG
2	B	975	GLN

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Mol	Chain	Res	Type
2	B	979	LYS
2	B	986	GLN
2	B	997	GLU
2	B	999	MET
2	B	1007	VAL
2	B	1028	GLU
2	B	1045	SER
2	B	1060	ARG
2	B	1065	GLN
2	B	1072	MET
2	B	1084	GLN
2	B	1094	ARG
2	B	1101	ASP
2	B	1106	ARG
2	B	1123	SER
2	B	1128	LEU
2	B	1138	MET
2	B	1145	SER
2	B	1147	LEU
2	B	1151	LEU
2	B	1156	ASP
2	B	1159	ARG
2	B	1160	VAL
2	B	1165	ILE
2	B	1175	LEU
2	B	1179	GLN
2	B	1183	LYS
2	B	1188	LYS
2	B	1189	ILE
2	B	1193	GLN
2	B	1201	LYS
2	B	1202	LEU
2	B	1220	ARG
3	C	3	GLU
3	C	11	ARG
3	C	12	GLU
3	C	22	LEU
3	C	25	VAL
3	C	26	ASP
3	C	52	GLU
3	C	53	THR
3	C	54	ASN

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Mol	Chain	Res	Type
3	C	55	THR
3	C	56	THR
3	C	81	GLU
3	C	100	THR
3	C	101	LEU
3	C	119	VAL
3	C	121	VAL
3	C	124	LEU
3	C	125	MET
3	C	127	ARG
3	C	129	ILE
3	C	133	ILE
3	C	147	LEU
3	C	151	GLN
3	C	215	GLU
3	C	224	GLN
3	C	238	ILE
3	C	240	VAL
3	C	259	LEU
3	C	265	MET
3	C	268	ASP
4	D	5	THR
4	D	7	THR
4	D	9	GLN
4	D	10	THR
4	D	12	ARG
4	D	13	ARG
4	D	18	VAL
4	D	27	LEU
4	D	32	GLU
4	D	34	GLN
4	D	35	LEU
4	D	40	HIS
4	D	47	LEU
4	D	52	LEU
4	D	53	SER
4	D	64	VAL
4	D	65	GLU
4	D	67	ARG
4	D	118	THR
4	D	126	ILE
4	D	128	VAL

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Mol	Chain	Res	Type
4	D	134	THR
4	D	139	LYS
4	D	153	ARG
4	D	156	ASP
4	D	166	LEU
4	D	177	VAL
4	D	182	SER
4	D	187	THR
4	D	193	THR
4	D	197	SER
4	D	201	LYS
4	D	213	GLU
4	D	214	LEU
4	D	215	SER
4	D	219	THR
4	D	221	TYR
5	E	3	GLN
5	E	9	ILE
5	E	20	LYS
5	E	31	THR
5	E	45	LYS
5	E	57	MET
5	E	67	GLU
5	E	92	THR
5	E	100	ILE
5	E	104	ASN
5	E	127	ILE
5	E	131	THR
5	E	140	LEU
5	E	144	ILE
5	E	166	LYS
5	E	173	SER
5	E	177	ARG
5	E	178	ILE
5	E	191	LYS
5	E	192	ARG
5	E	196	VAL
5	E	202	SER
5	E	204	THR
6	F	72	LYS
6	F	78	GLN
6	F	79	ARG

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Mol	Chain	Res	Type
6	F	82	THR
6	F	86	THR
6	F	90	ARG
6	F	110	ASP
6	F	129	LYS
6	F	133	VAL
7	G	13	LEU
7	G	24	GLN
7	G	26	LEU
7	G	34	VAL
7	G	64	THR
7	G	96	GLN
7	G	106	MET
7	G	133	SER
7	G	138	THR
7	G	143	ILE
7	G	145	VAL
7	G	151	ILE
7	G	155	SER
7	G	162	SER
7	G	163	ILE
7	G	171	ILE
8	H	13	SER
8	H	14	GLU
8	H	23	VAL
8	H	26	ILE
8	H	31	THR
8	H	34	ASP
8	H	76	THR
8	H	77	ARG
8	H	83	GLN
8	H	89	LEU
8	H	92	ASP
8	H	103	LYS
8	H	128	ASN
8	H	130	ARG
8	H	135	LEU
8	H	138	GLU
9	I	8	ARG
9	I	31	THR
9	I	35	VAL
9	I	74	GLU

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Mol	Chain	Res	Type
9	I	82	GLU
9	I	84	VAL
9	I	94	ASP
9	I	111	THR
10	J	1	MET
10	J	2	ILE
10	J	3	VAL
10	J	7	CYS
10	J	12	LYS
10	J	13	VAL
10	J	14	VAL
10	J	22	LEU
10	J	29	GLU
10	J	42	LYS
10	J	48	ARG
10	J	52	THR
11	K	14	GLU
11	K	18	LYS
11	K	20	LYS
11	K	25	THR
11	K	29	ASN
11	K	31	VAL
11	K	37	LYS
11	K	42	LEU
11	K	47	ARG
11	K	51	LEU
11	K	101	LEU
11	K	107	THR
11	K	114	LEU
12	L	55	ILE
12	L	68	GLU
14	N	194	LYS
14	N	210	LYS
17	Q	11	ILE
17	Q	50	GLU
17	Q	55	ARG
17	Q	58	LEU
17	Q	66	LEU
17	Q	79	THR
17	Q	81	MET
17	Q	86	ASN
17	Q	89	ILE

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Mol	Chain	Res	Type
17	Q	95	ASN
17	Q	96	ASP
17	Q	108	ILE
17	Q	110	HIS
17	Q	159	GLU
17	Q	180	VAL
17	Q	217	THR
17	Q	230	LEU
17	Q	246	ILE
17	Q	260	SER
17	Q	265	ILE
17	Q	268	ILE
17	Q	275	LEU
17	Q	280	LYS
17	Q	287	GLU
18	R	47	LYS
18	R	49	LEU
18	R	67	ARG
18	R	92	VAL
18	R	121	LEU
18	R	153	ILE
18	R	158	ASP
18	R	181	GLU
18	R	188	SER
18	R	189	LEU
18	R	192	ASP
18	R	193	THR
18	R	199	ASP
18	R	200	LEU
20	T	55	LYS
20	T	99	LYS
20	T	102	LYS
20	T	118	LEU
20	T	120	GLU
20	T	124	GLU
21	U	65	LEU
21	U	83	TRP
21	U	131	LEU
21	U	140	ASN
21	U	152	ARG
21	U	156	VAL
21	U	159	HIS

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Mol	Chain	Res	Type
21	U	161	LEU
22	V	86	GLN
22	V	88	GLU
22	V	99	LYS
22	V	135	ILE
22	V	137	ARG
22	V	141	ASP
23	W	11	CYS
23	W	13	ASP
23	W	16	THR
23	W	63	SER
23	W	80	LEU
24	X	46	GLN
24	X	94	VAL
24	X	97	ASP
24	X	99	LEU
24	X	103	LEU
25	Y	57	ILE
25	Y	176	PHE
25	Y	179	GLU
25	Y	207	ILE
25	Y	335	LEU
25	Y	479	LEU
25	Y	578	GLU
25	Y	587	ARG
25	Y	653	PHE
26	Z	327	LYS
26	Z	333	ILE
26	Z	349	ASN
26	Z	352	LEU
26	Z	356	LEU
26	Z	383	ILE
26	Z	405	LYS
26	Z	407	VAL
26	Z	442	ASN
26	Z	487	LEU
26	Z	524	ILE
26	Z	549	ILE
26	Z	570	LEU
26	Z	573	THR
26	Z	578	MET
26	Z	582	ILE

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Mol	Chain	Res	Type
26	Z	621	LYS
26	Z	622	MET
26	Z	630	SER
26	Z	634	GLN
26	Z	647	ASP
26	Z	656	LYS
26	Z	660	THR
26	Z	664	LEU
26	Z	668	THR
26	Z	669	CYS
26	Z	674	SER
26	Z	677	TYR
26	Z	680	ARG
26	Z	681	ARG
26	Z	711	LYS
26	Z	714	GLN
26	Z	717	TYR
26	Z	720	THR
26	Z	756	ARG
26	Z	757	ARG
29	c	23	THR
29	c	35	VAL
29	c	39	SER
29	c	52	LEU
29	c	59	THR
29	c	62	GLU
29	c	64	ARG
29	c	78	ARG
29	c	81	GLU
29	c	86	LEU
29	c	101	THR
29	c	142	LEU
29	c	145	ILE
29	c	168	MET
29	c	171	ILE
29	c	182	ARG
29	c	198	VAL
29	c	209	ILE
30	d	14	VAL
30	d	247	LEU
30	d	262	LEU
31	e	19	LEU

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Mol	Chain	Res	Type
31	e	23	LEU
31	e	41	LEU
31	e	66	LEU
31	e	111	LEU
32	f	340	LYS
33	g	55	GLU
33	g	349	TYR
33	g	356	LYS
34	h	13	LEU
34	h	67	ILE
34	h	71	LYS
34	h	123	MET
34	h	129	THR
34	h	130	LYS
34	h	132	THR
34	h	133	GLN
34	h	142	PHE
34	h	144	ARG
34	h	145	THR
34	h	146	GLU
34	h	148	LEU
34	h	150	SER
34	h	151	LEU
34	h	152	CYS
34	h	154	GLU
34	h	156	LEU
35	i	127	LYS
35	i	133	GLU
35	i	135	ILE
35	i	137	LYS
35	i	138	LYS
35	i	140	LYS
35	i	142	VAL
35	i	154	LYS
35	i	159	VAL
35	i	161	GLU
35	i	162	LEU
35	i	164	LYS
35	i	165	LYS
35	i	166	LEU
35	i	167	ASP
35	i	171	PHE

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Mol	Chain	Res	Type
35	i	179	LYS
35	i	193	LEU
35	i	196	LEU
35	i	207	CYS
35	i	208	LYS
35	i	211	LYS
35	i	219	GLU
35	i	220	THR
35	i	221	ILE
35	i	225	GLU
35	i	228	SER
35	i	232	VAL
35	i	233	LEU
35	i	238	ASP
36	j	78	CYS
36	j	83	LYS
36	j	87	LEU
36	j	141	ARG
36	j	145	LYS
36	j	151	LYS
36	j	173	GLU
36	j	233	VAL
36	j	234	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (163) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	64	ASN
1	A	256	GLN
1	A	287	HIS
1	A	390	GLN
1	A	394	ASN
1	A	425	GLN
1	A	451	HIS
1	A	479	ASN
1	A	517	ASN
1	A	545	GLN
1	A	548	ASN
1	A	603	ASN
1	A	760	GLN
1	A	811	GLN

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Mol	Chain	Res	Type
1	A	838	GLN
1	A	965	GLN
1	A	966	ASN
1	A	969	GLN
1	A	994	GLN
1	A	1106	ASN
1	A	1128	GLN
1	A	1140	HIS
1	A	1173	HIS
1	A	1232	ASN
1	A	1270	ASN
1	A	1393	ASN
2	B	110	HIS
2	B	278	GLN
2	B	300	HIS
2	B	350	GLN
2	B	357	GLN
2	B	449	ASN
2	B	538	ASN
2	B	686	ASN
2	B	786	ASN
2	B	842	ASN
2	B	881	ASN
2	B	887	HIS
2	B	951	GLN
2	B	1025	HIS
2	B	1176	ASN
2	B	1177	HIS
2	B	1195	HIS
3	C	79	GLN
3	C	112	ASN
3	C	135	GLN
3	C	184	ASN
3	C	203	GLN
3	C	214	ASN
3	C	231	ASN
4	D	37	GLN
4	D	132	GLN
4	D	143	ASN
4	D	165	GLN
5	E	3	GLN
5	E	5	ASN

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Mol	Chain	Res	Type
5	E	54	GLN
5	E	115	ASN
5	E	179	GLN
7	G	71	ASN
8	H	35	GLN
8	H	52	GLN
8	H	83	GLN
8	H	131	ASN
9	I	23	ASN
9	I	51	ASN
9	I	83	ASN
9	I	89	GLN
9	I	108	HIS
10	J	26	GLN
10	J	64	ASN
11	K	44	ASN
11	K	76	GLN
12	L	53	HIS
17	Q	3	GLN
17	Q	4	GLN
17	Q	53	ASN
17	Q	56	ASN
17	Q	57	GLN
17	Q	86	ASN
17	Q	176	ASN
17	Q	183	GLN
17	Q	205	ASN
17	Q	243	ASN
17	Q	258	ASN
17	Q	269	ASN
18	R	26	ASN
18	R	68	GLN
18	R	118	GLN
18	R	120	GLN
18	R	141	ASN
20	T	66	ASN
21	U	74	GLN
21	U	75	GLN
21	U	168	HIS
21	U	169	GLN
21	U	198	GLN
22	V	81	ASN

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Mol	Chain	Res	Type
22	V	108	ASN
23	W	7	GLN
23	W	74	ASN
24	X	95	ASN
25	Y	60	GLN
25	Y	62	HIS
25	Y	138	ASN
25	Y	242	ASN
25	Y	362	HIS
25	Y	628	GLN
25	Y	661	HIS
25	Y	707	ASN
26	Z	320	ASN
26	Z	331	GLN
26	Z	349	ASN
26	Z	361	GLN
26	Z	366	GLN
26	Z	423	GLN
26	Z	426	GLN
26	Z	434	ASN
26	Z	447	GLN
26	Z	471	GLN
26	Z	491	HIS
26	Z	508	HIS
26	Z	528	ASN
26	Z	596	GLN
26	Z	648	GLN
26	Z	676	HIS
26	Z	738	HIS
26	Z	740	HIS
26	Z	747	ASN
26	Z	761	GLN
28	b	11	GLN
29	c	84	ASN
29	c	158	HIS
29	c	208	ASN
30	d	3	ASN
30	d	36	GLN
30	d	40	ASN
30	d	43	GLN
30	d	59	GLN
30	d	61	ASN

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Mol	Chain	Res	Type
30	d	270	ASN
30	d	272	ASN
31	e	57	GLN
31	e	84	GLN
31	e	117	ASN
32	f	148	GLN
33	g	90	GLN
33	g	98	ASN
33	g	118	HIS
33	g	131	ASN
33	g	220	HIS
33	g	328	HIS
34	h	72	GLN
34	h	133	GLN
34	h	141	ASN
35	i	199	GLN
35	i	216	GLN
36	j	68	GLN
36	j	88	HIS
36	j	144	GLN
36	j	158	GLN
36	j	219	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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](#)

Of 9 ligands modelled in this entry, 9 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8305. These allow visual inspection of the internal detail of the map and identification of artifacts.

Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

6.1.1 Primary map



X

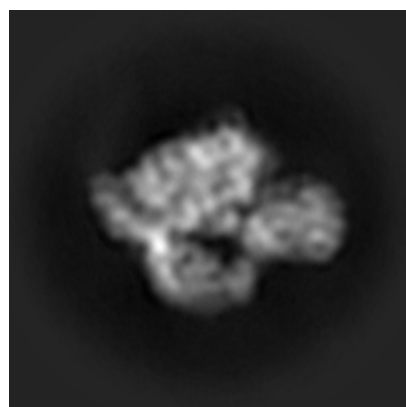


Y

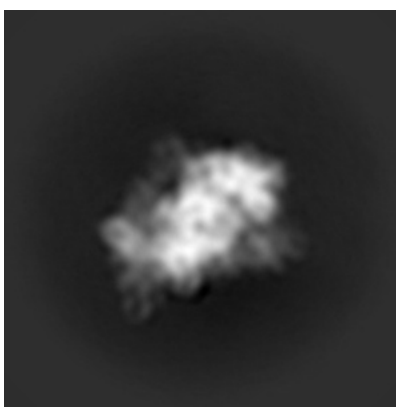


Z

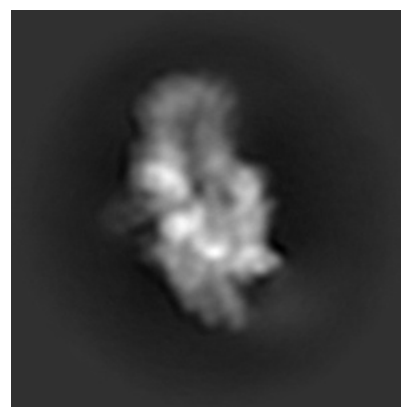
6.1.2 Raw map



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: 110

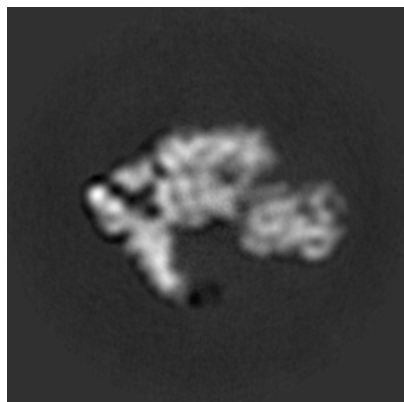


Y Index: 110

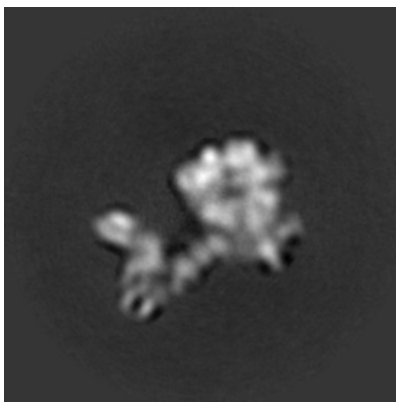


Z Index: 110

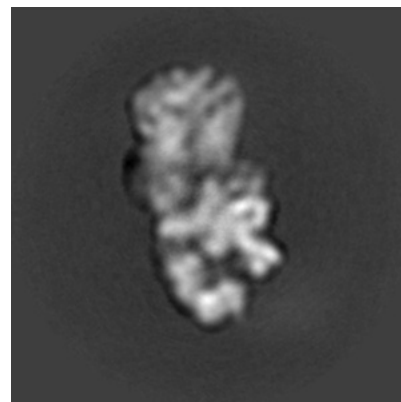
6.2.2 Raw map



X Index: 110



Y Index: 110



Z Index: 110

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: 90

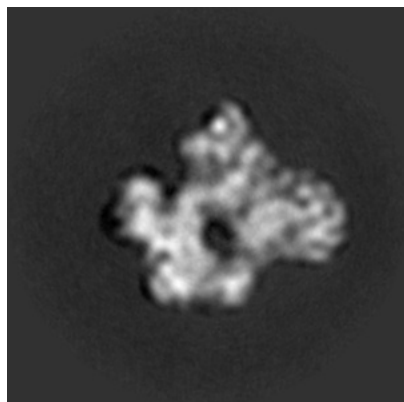


Y Index: 86

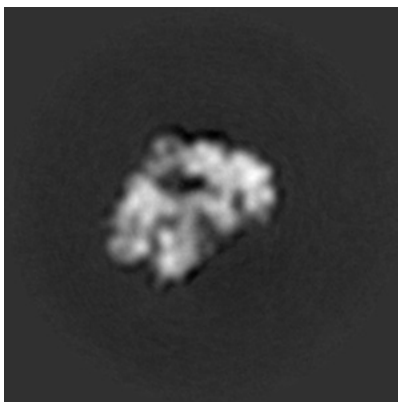


Z Index: 103

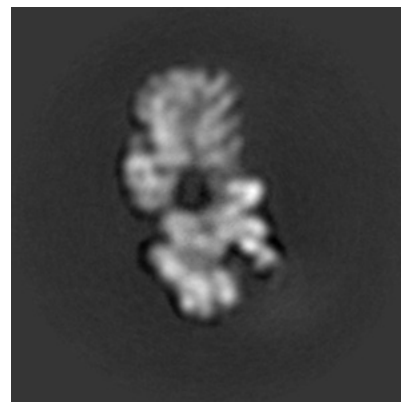
6.3.2 Raw map



X Index: 90



Y Index: 86



Z Index: 103

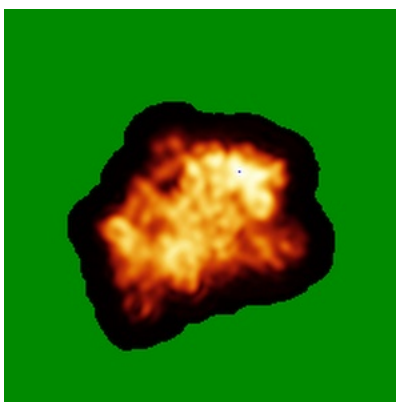
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



X

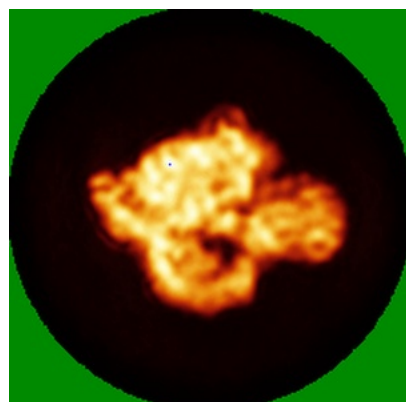


Y

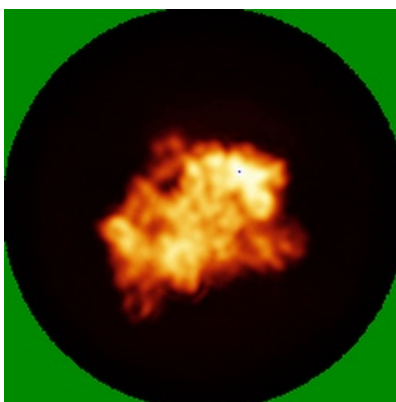


Z

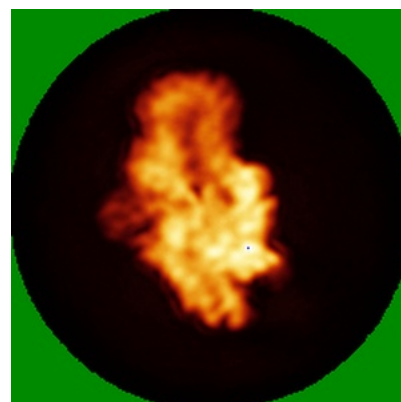
6.4.2 Raw map



X



Y

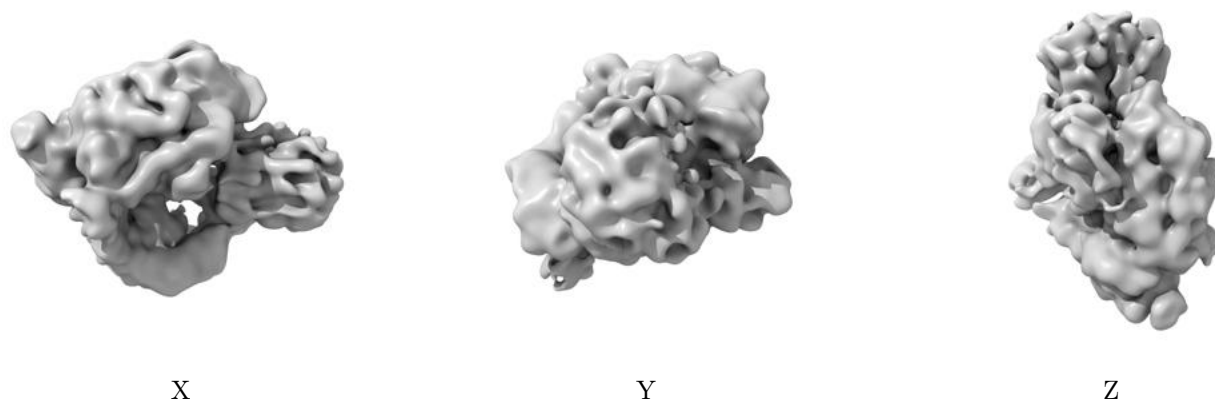


Z

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.

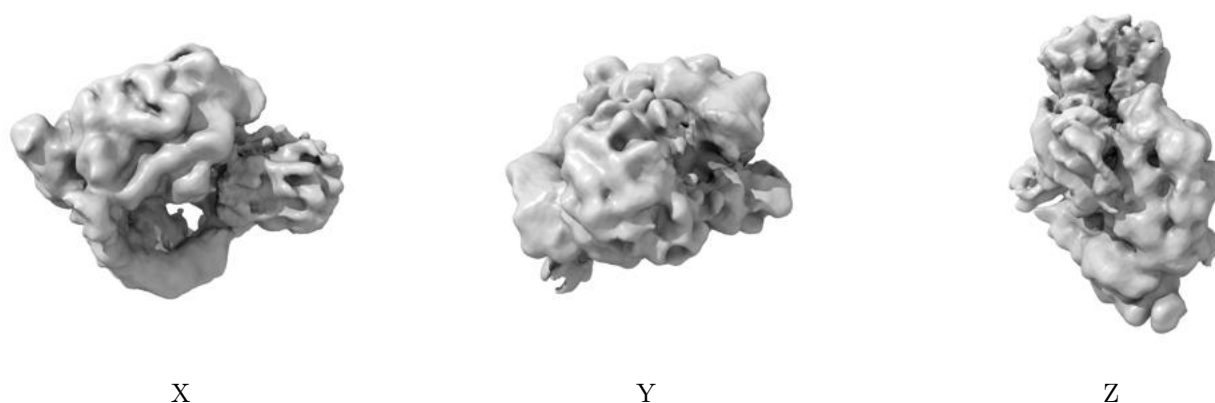
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.025. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

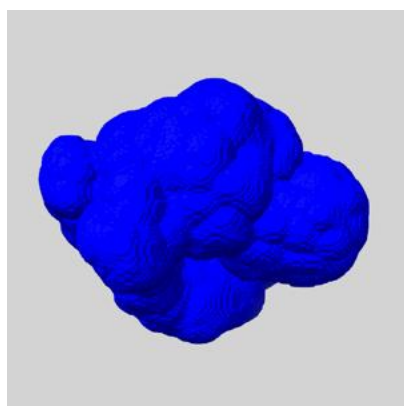
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

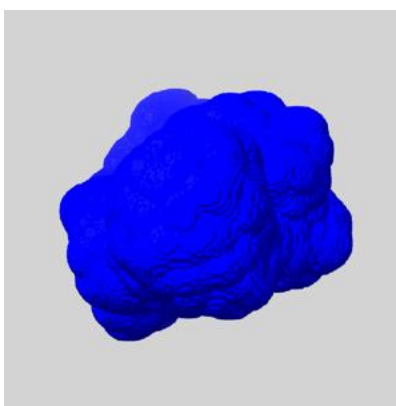
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

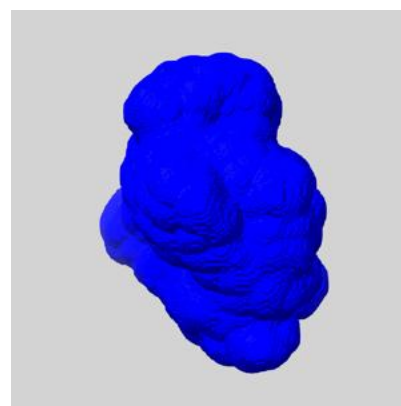
6.6.1 emd_8305_msk_1.map [i](#)



X



Y

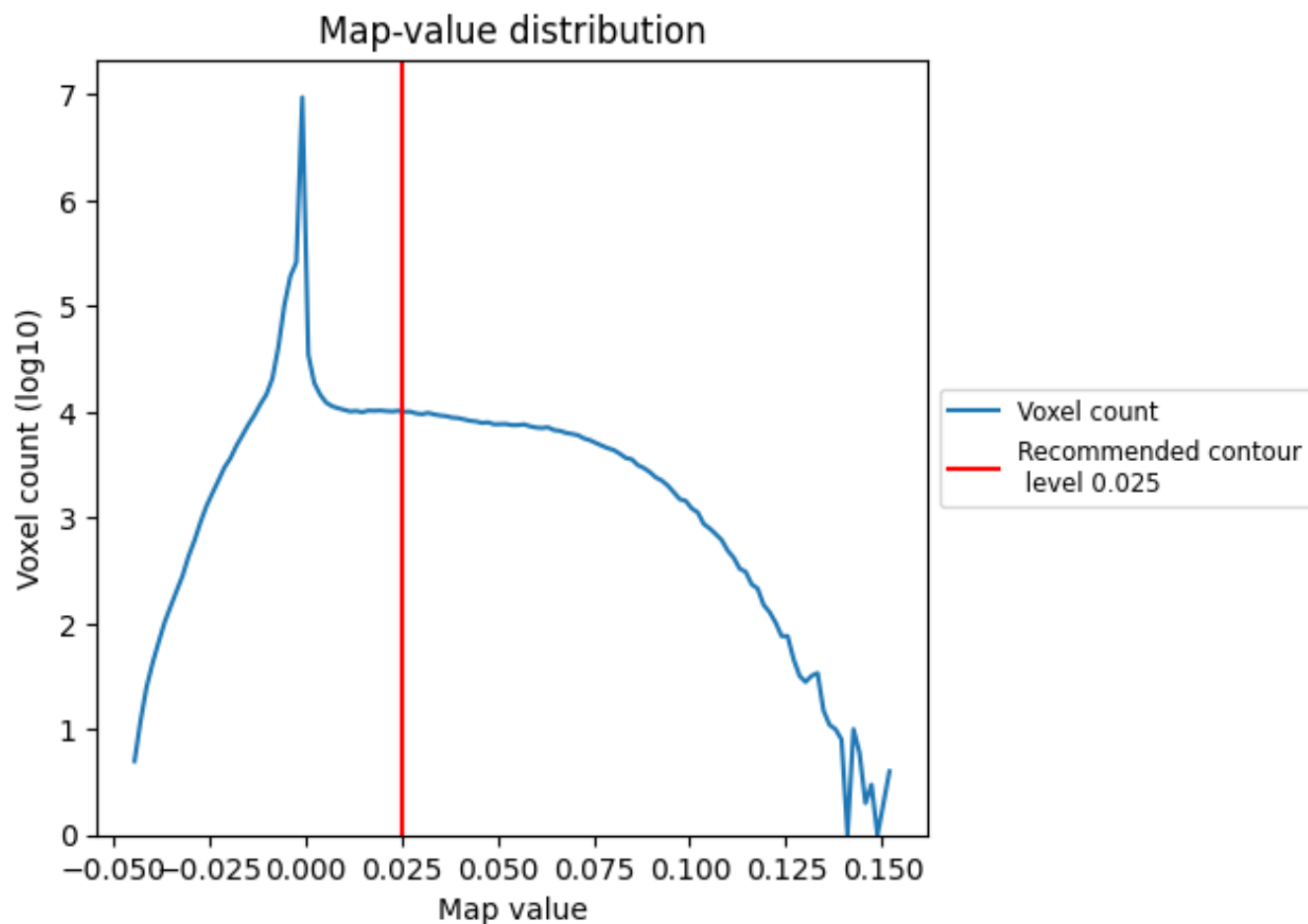


Z

7 Map analysis [i](#)

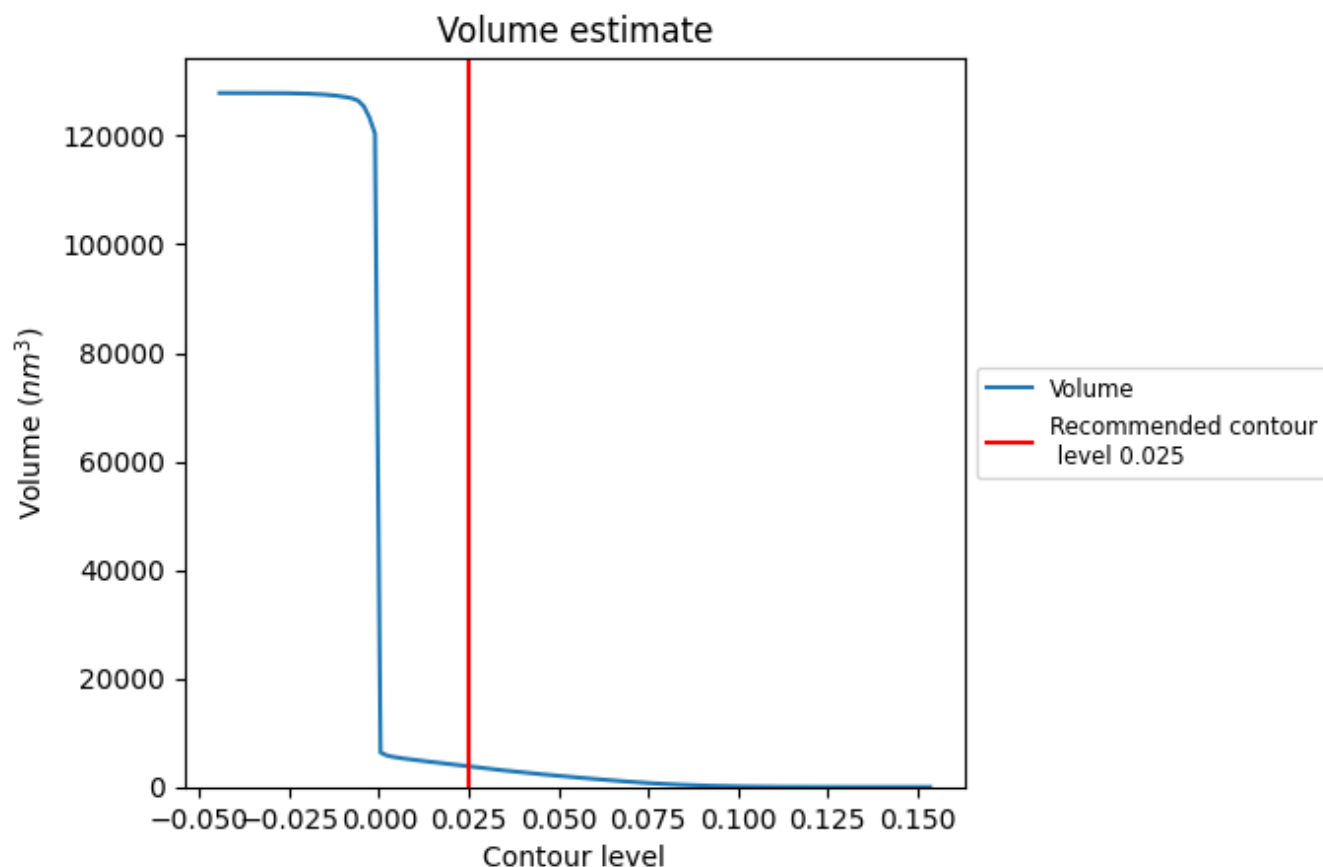
This section contains the results of statistical analysis of the map.

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.

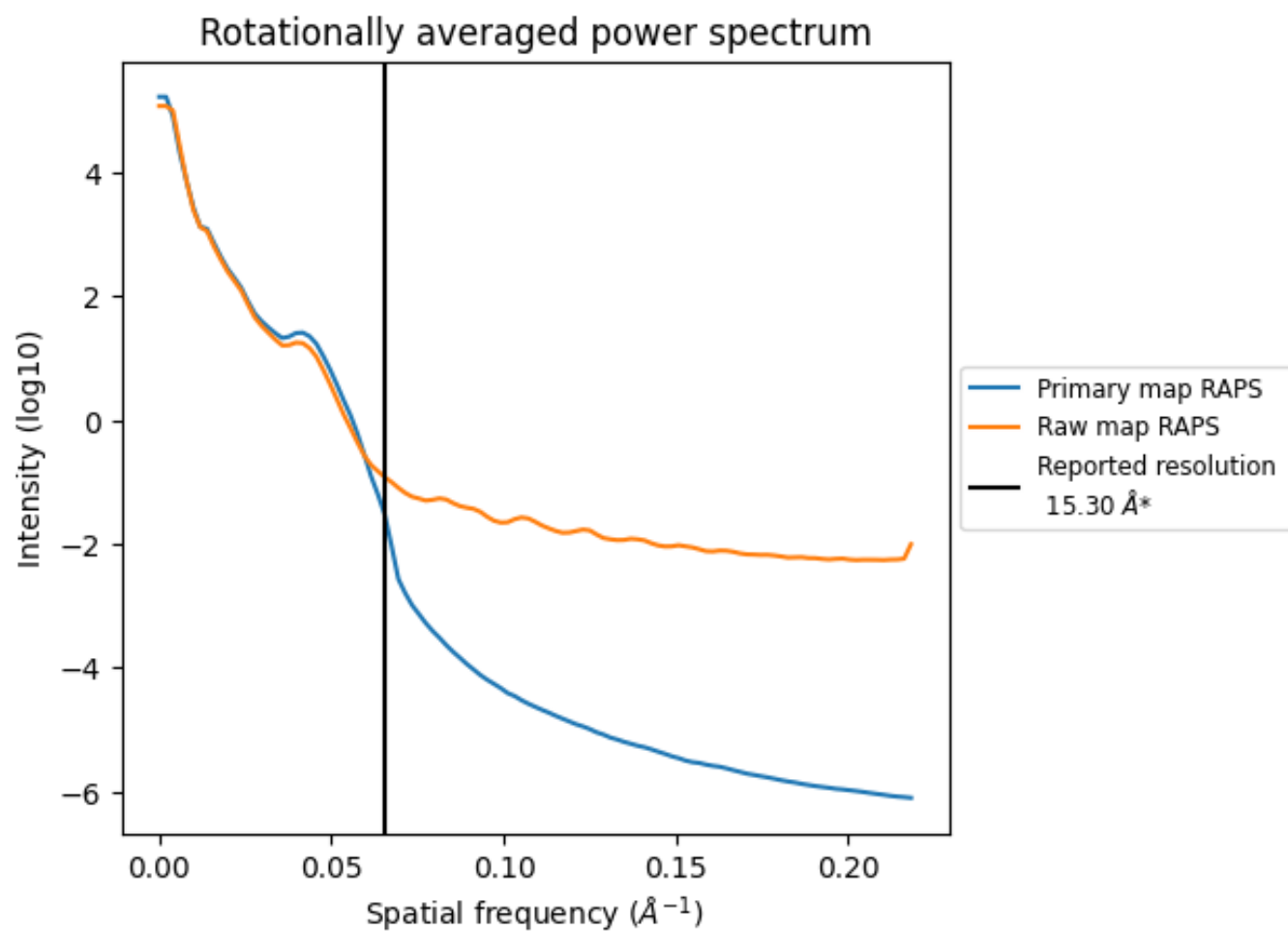
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3796 nm^3 ; this corresponds to an approximate mass of 3429 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 ⓘ

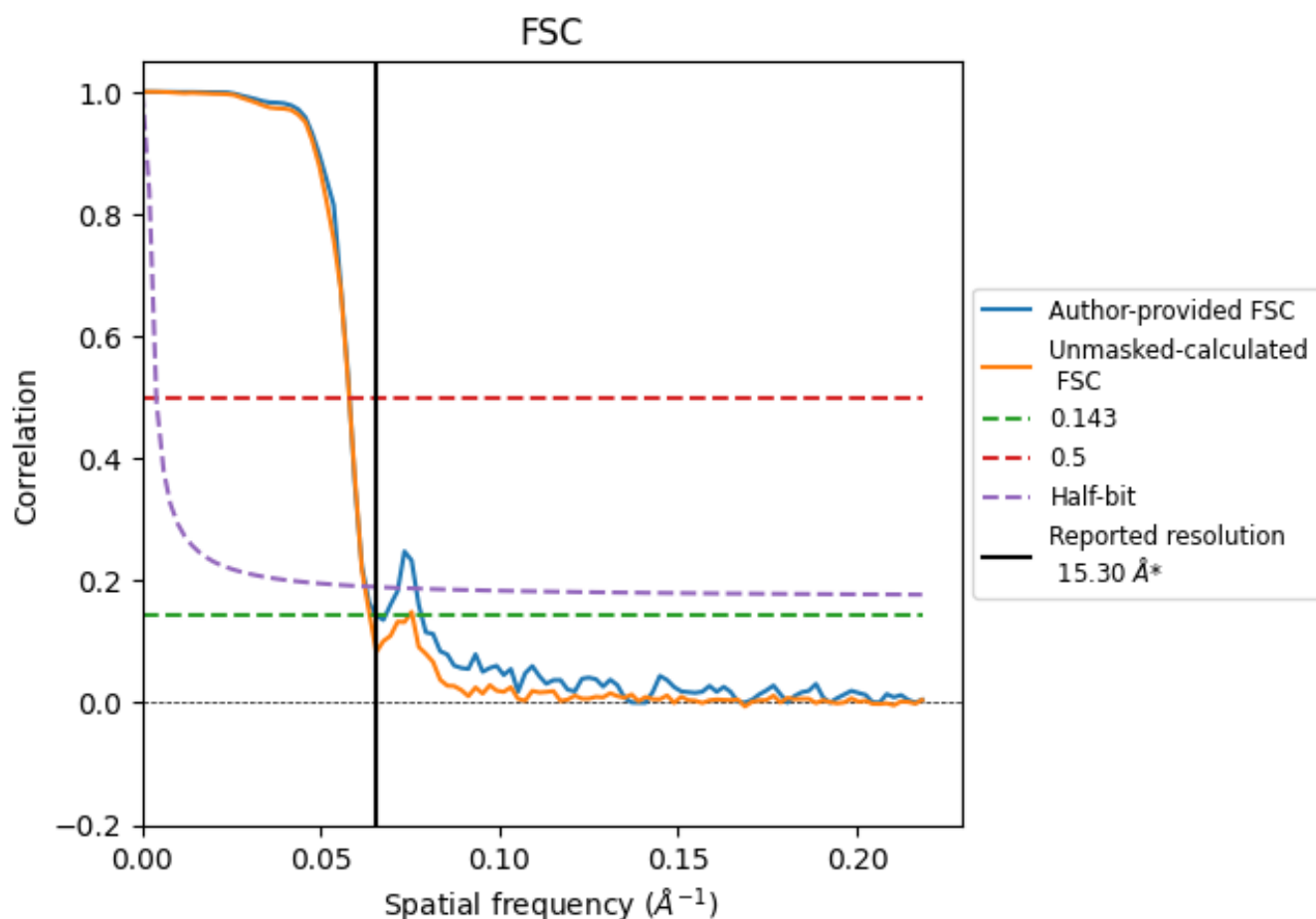


*Reported resolution corresponds to spatial frequency of 0.065 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.065 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

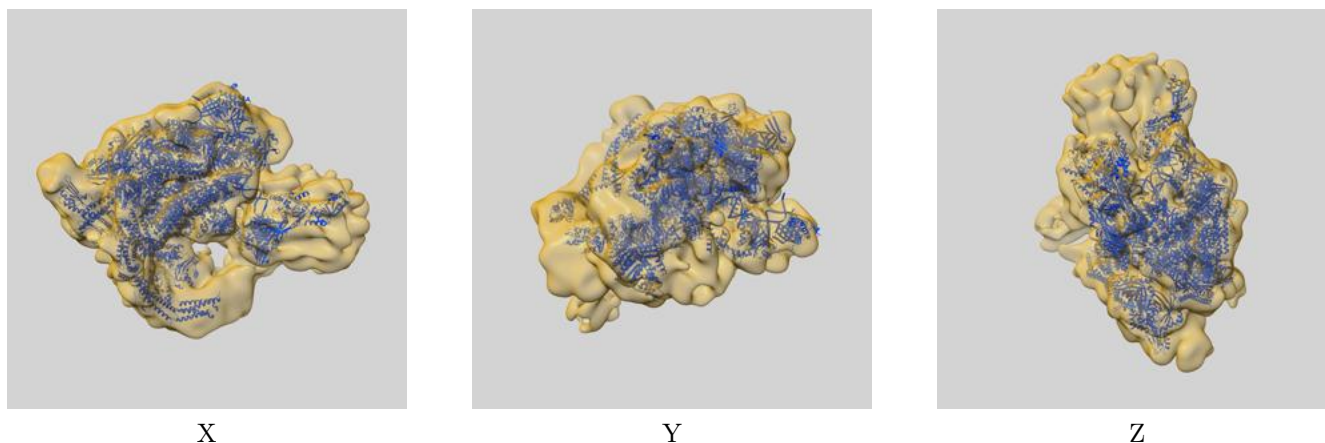
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	15.30	-	-
Author-provided FSC curve	15.27	17.24	15.97
Unmasked-calculated*	15.70	17.27	16.05

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

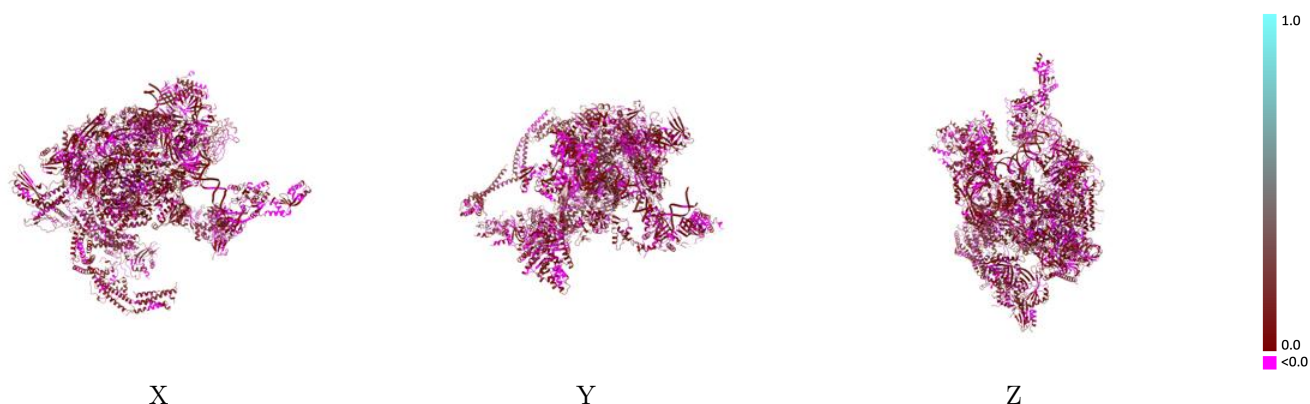
This section contains information regarding the fit between EMDB map EMD-8305 and PDB model 5SVA. Per-residue inclusion information can be found in section [3](#) on page [12](#).

9.1 Map-model overlay [i](#)



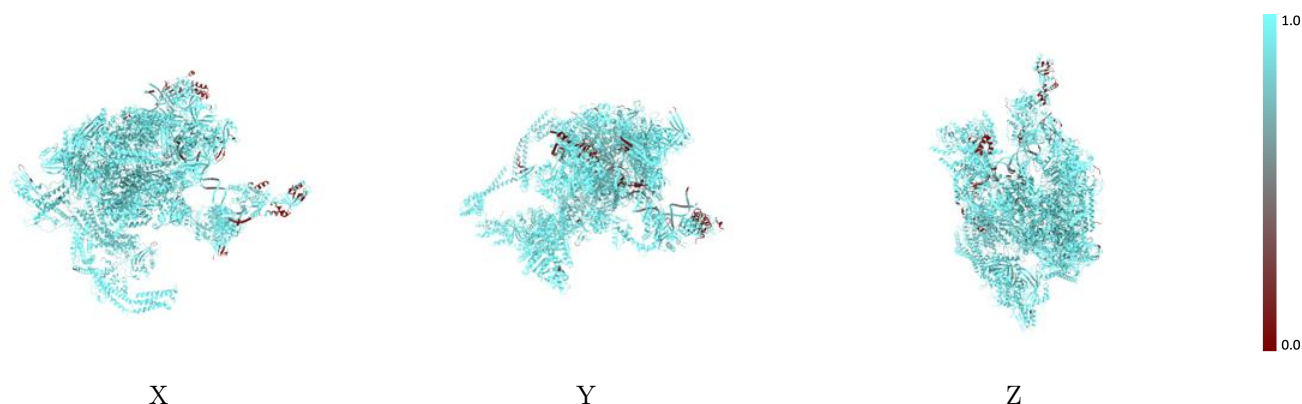
The images above show the 3D surface view of the map at the recommended contour level 0.025 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



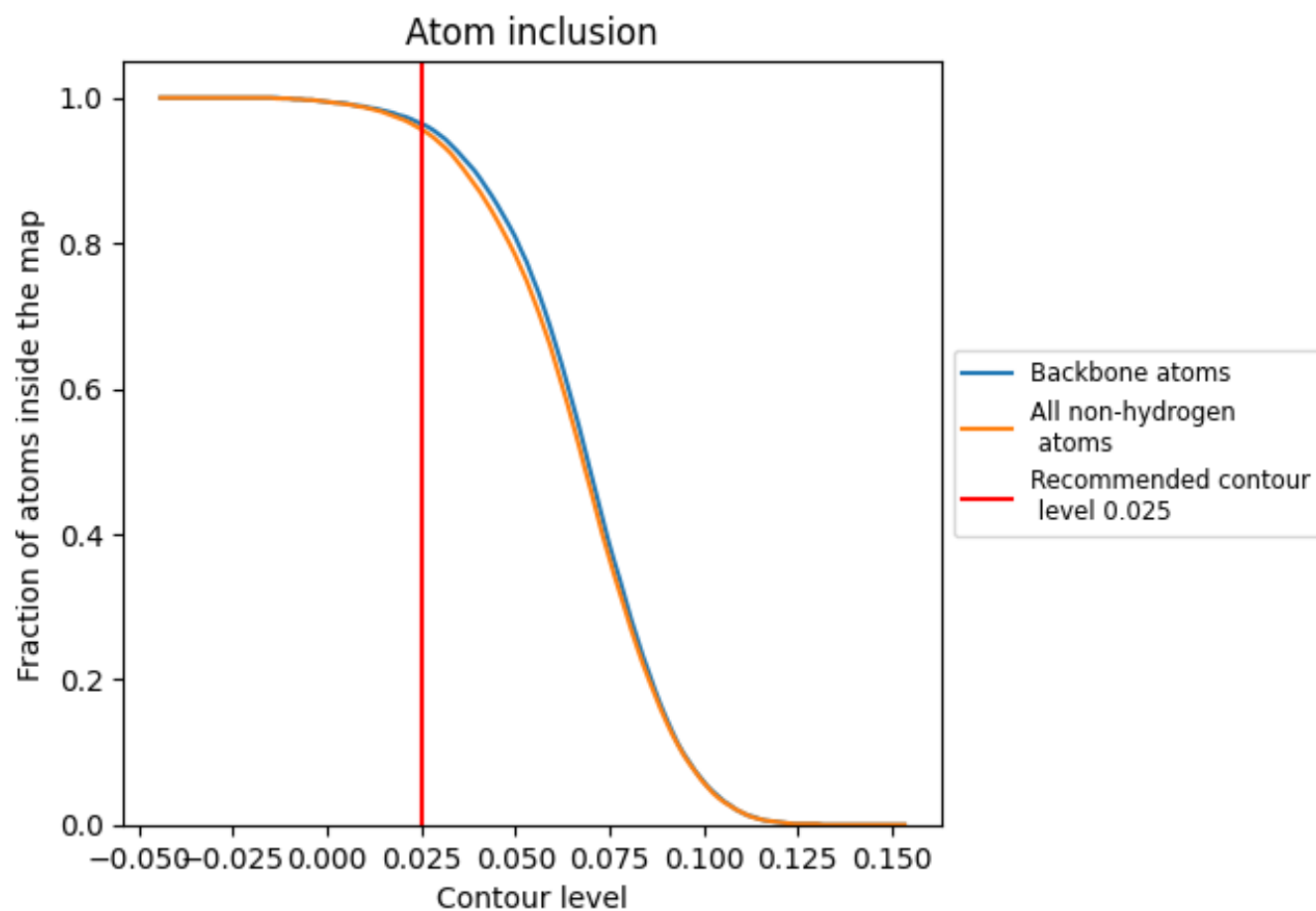
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.025).

9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 96% 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 (0.025) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9570	 0.0490
A	 0.9930	 0.0610
B	 0.9960	 0.0400
C	 0.9900	 0.0500
D	 0.9780	 0.0630
E	 0.9930	 0.0720
F	 0.9970	 0.0640
G	 0.9760	 0.0570
H	 0.9510	 0.0380
I	 0.9440	 0.0490
J	 1.0000	 0.0810
K	 0.9750	 0.0720
L	 1.0000	 0.0570
M	 0.9670	 0.0290
N	 0.9990	 0.0450
O	 1.0000	 0.0700
P	 0.9850	 0.0610
Q	 0.9920	 0.0460
R	 0.9810	 0.0630
S	 1.0000	 0.0330
T	 0.9800	 0.0460
U	 0.9960	 0.0700
V	 0.9770	 0.1040
W	 0.9960	 0.0940
X	 0.9850	 0.0080
Y	 0.9920	 0.0450
Z	 0.9340	 0.0360
a	 0.6090	 -0.0120
b	 0.6040	 0.0000
c	 0.9680	 0.0260
d	 0.5480	 0.0070
e	 0.7380	 0.0220
f	 0.9130	 0.0170
g	 0.9820	 0.0240
h	 0.9610	 0.0620



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Chain	Atom inclusion	Q-score
i	 1.0000	 0.0750
j	 0.8260	 0.0390
k	 1.0000	 -0.0140
l	 0.7680	 0.0630
m	 0.8250	 0.0540
n	 0.8600	 0.0390