Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 06:34 AM UTC

PDB ID	:	8H40 / pdb_00008h40
EMDB ID	:	EMD-34476
Title	:	Cryo-EM structure of the transcription activation complex NtcA-TAC
Authors	:	Han, S.J.; Jiang, Y.L.; You, L.L.; Shen, L.Q.; Wu, X.X.; Yang, F.; Kong, W.W.; Chen, Z.P.; Zhang, Y.; Zhou, C.Z.
Deposited on	:	2022-10-09
Resolution	:	3.60 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:

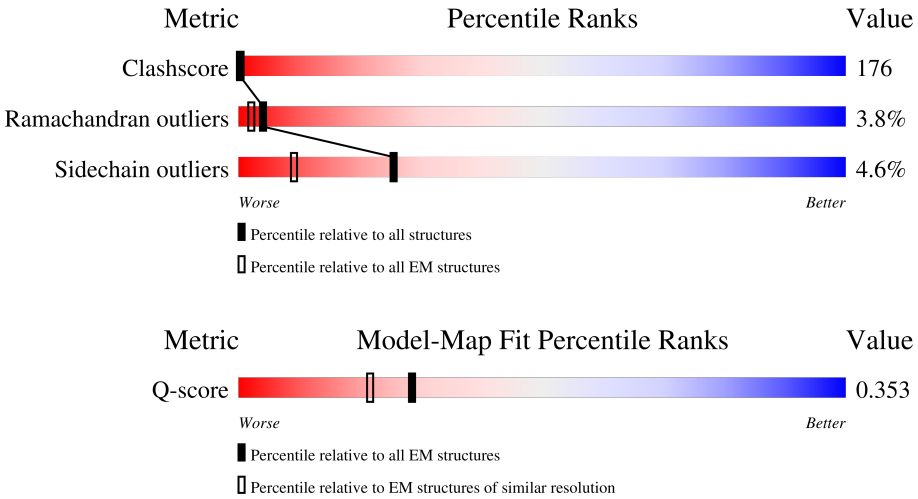
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 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	12797 (3.10 - 4.10)

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 <=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	1	125	14% 38% 47%
2	2	125	16% 26% 57%
3	A	1132	8% 40% 44% 5%
4	B	1350	24% 7% 52% 28% 10%

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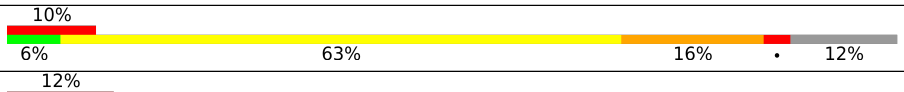
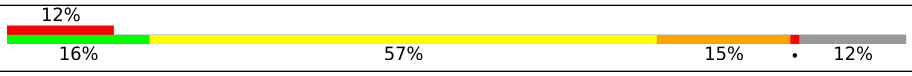
Mol	Chain	Length	Quality of chain
5	C	236	
5	D	236	
6	E	625	
7	F	78	
8	G	390	
9	X	223	
9	Y	223	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 34833 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a DNA chain called DNA (125-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	1	66	1358	651	243	398	66	0	0

- Molecule 2 is a DNA chain called DNA (125-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
2	2	54	1109	532	203	320	54	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	A	1077	8473	5326	1505	1618	24	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP P22703
A	1	VAL	-	expression tag	UNP P22703

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	B	1217	9292	5802	1639	1823	28	0	0

- Molecule 5 is a protein called DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	C	226	1762	1106	305	346	5	0	0

Continued on next page...

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	D	226	Total	C	N	O	S	0	0
			1762	1106	305	346	5		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	0	MET	-	initiating methionine	UNP Q8YPK3
C	1	VAL	-	expression tag	UNP Q8YPK3
D	0	MET	-	initiating methionine	UNP Q8YPK3
D	1	VAL	-	expression tag	UNP Q8YPK3

- Molecule 6 is a protein called DNA-directed RNA polymerase subunit gamma.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	E	620	Total	C	N	O	S	0	0
			4923	3107	885	910	21		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
7	F	58	Total	C	N	O	S	0	0
			474	290	90	90	4		

- Molecule 8 is a protein called RNA polymerase sigma factor SigA.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	G	314	Total	C	N	O	S	0	0
			2600	1628	482	484	6		

- Molecule 9 is a protein called NtcA.

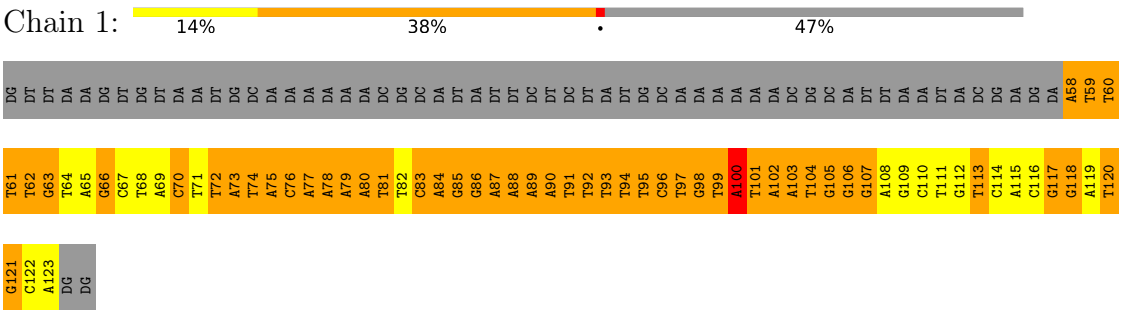
Mol	Chain	Residues	Atoms					AltConf	Trace
9	X	196	Total	C	N	O	S	0	0
			1540	984	268	280	8		
9	Y	196	Total	C	N	O	S	0	0
			1540	984	268	280	8		

3 Residue-property plots (i)

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.

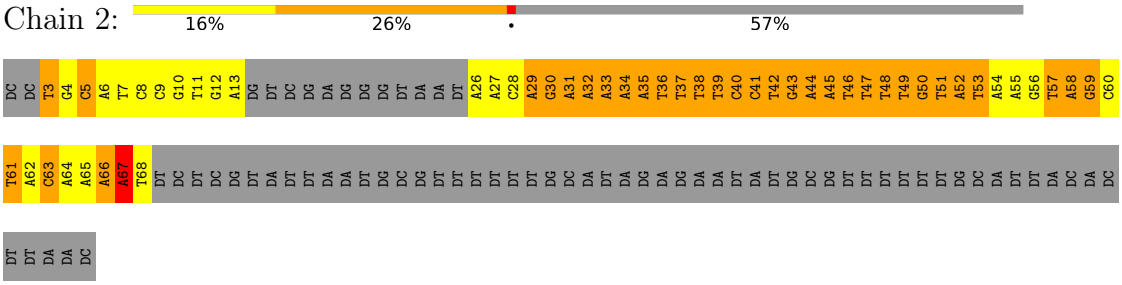
• Molecule 1: DNA (125-MER)

Chain 1:



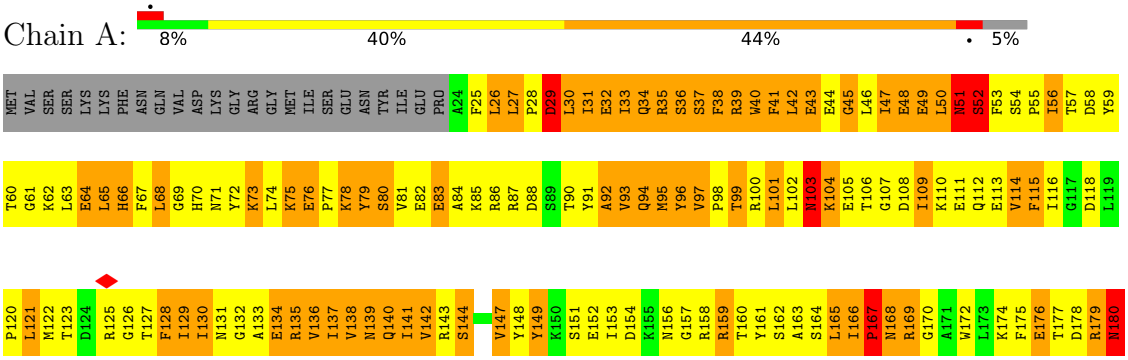
• Molecule 2: DNA (125-MER)

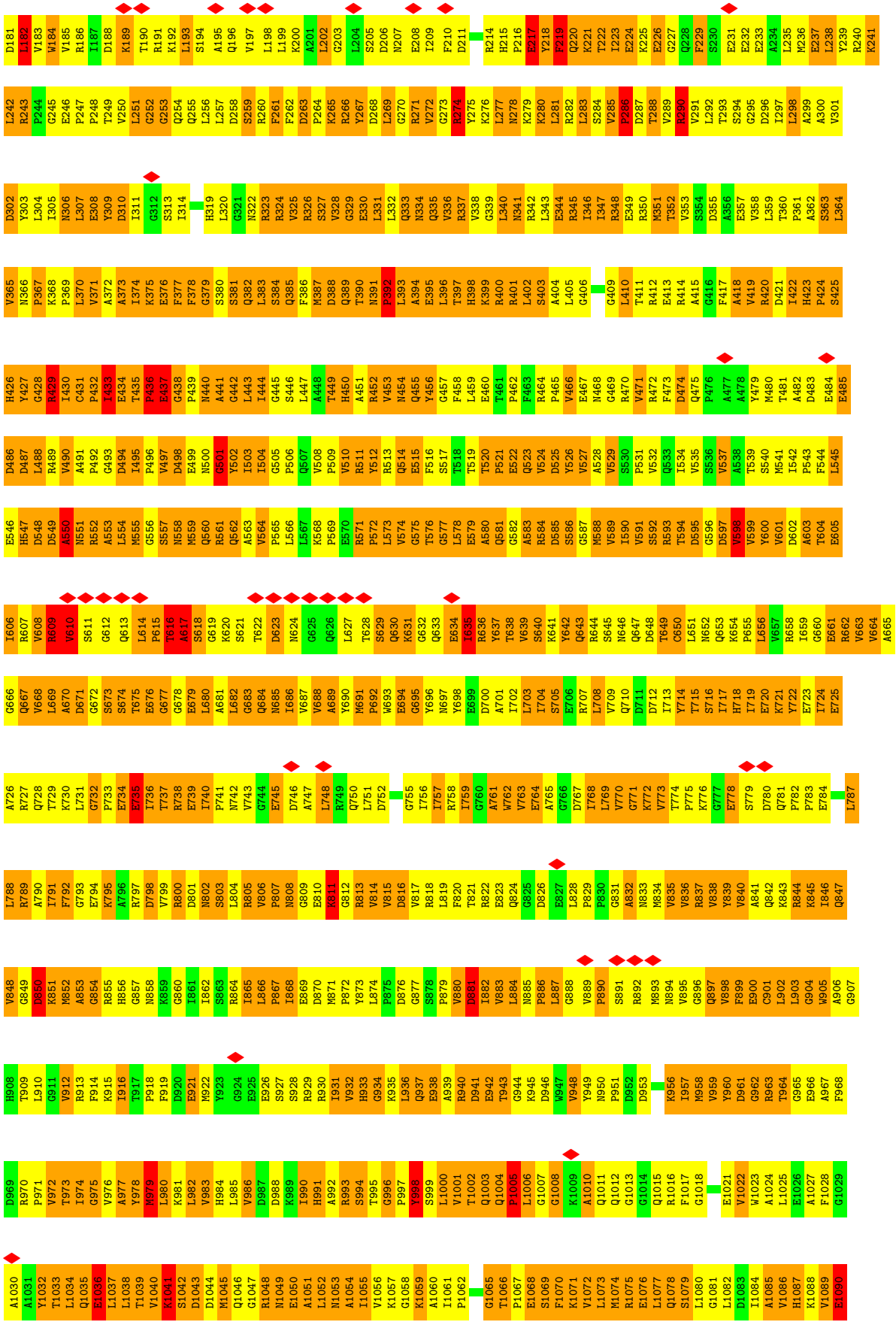
Chain 2:



• Molecule 3: DNA-directed RNA polymerase subunit beta

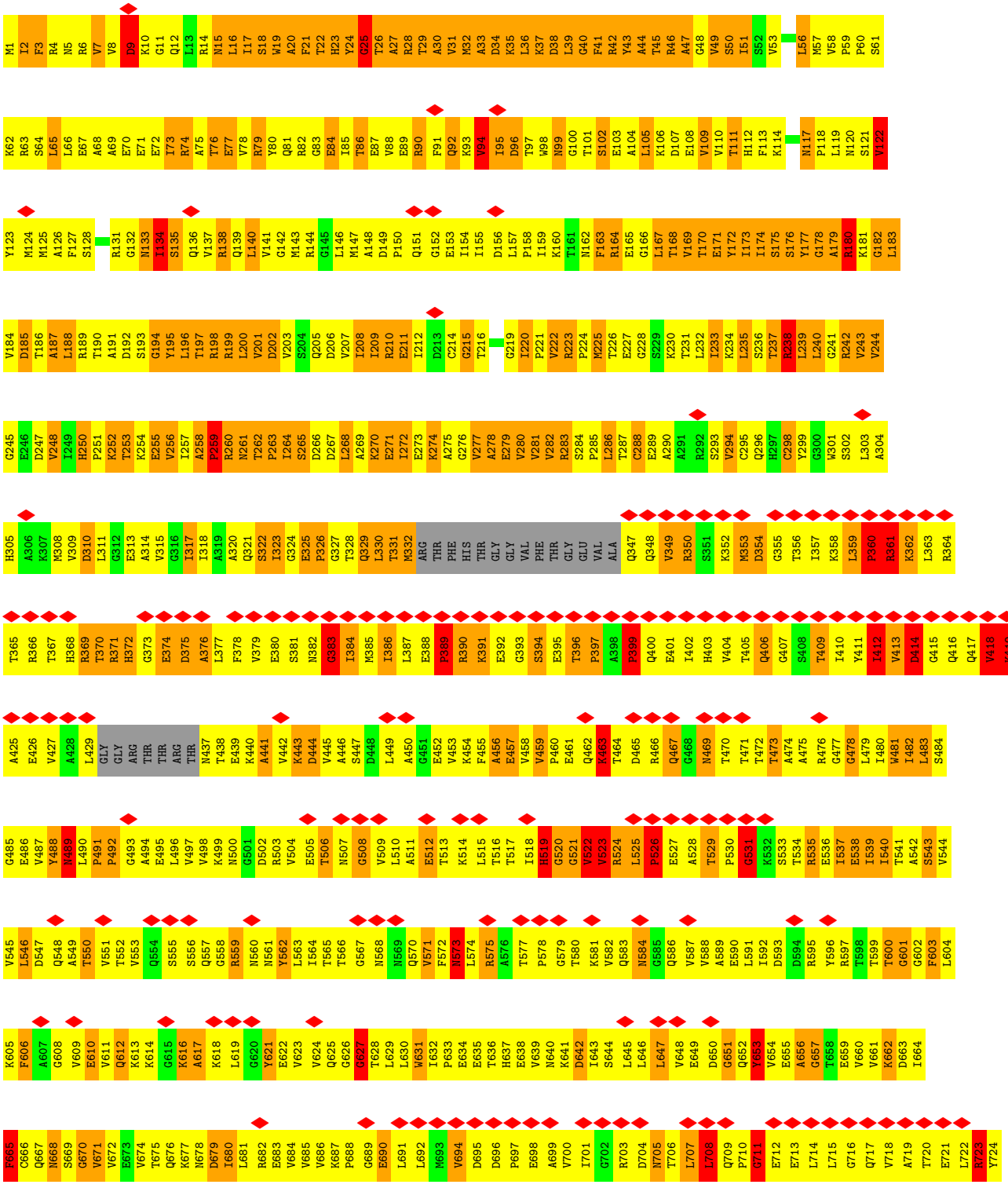
Chain A:

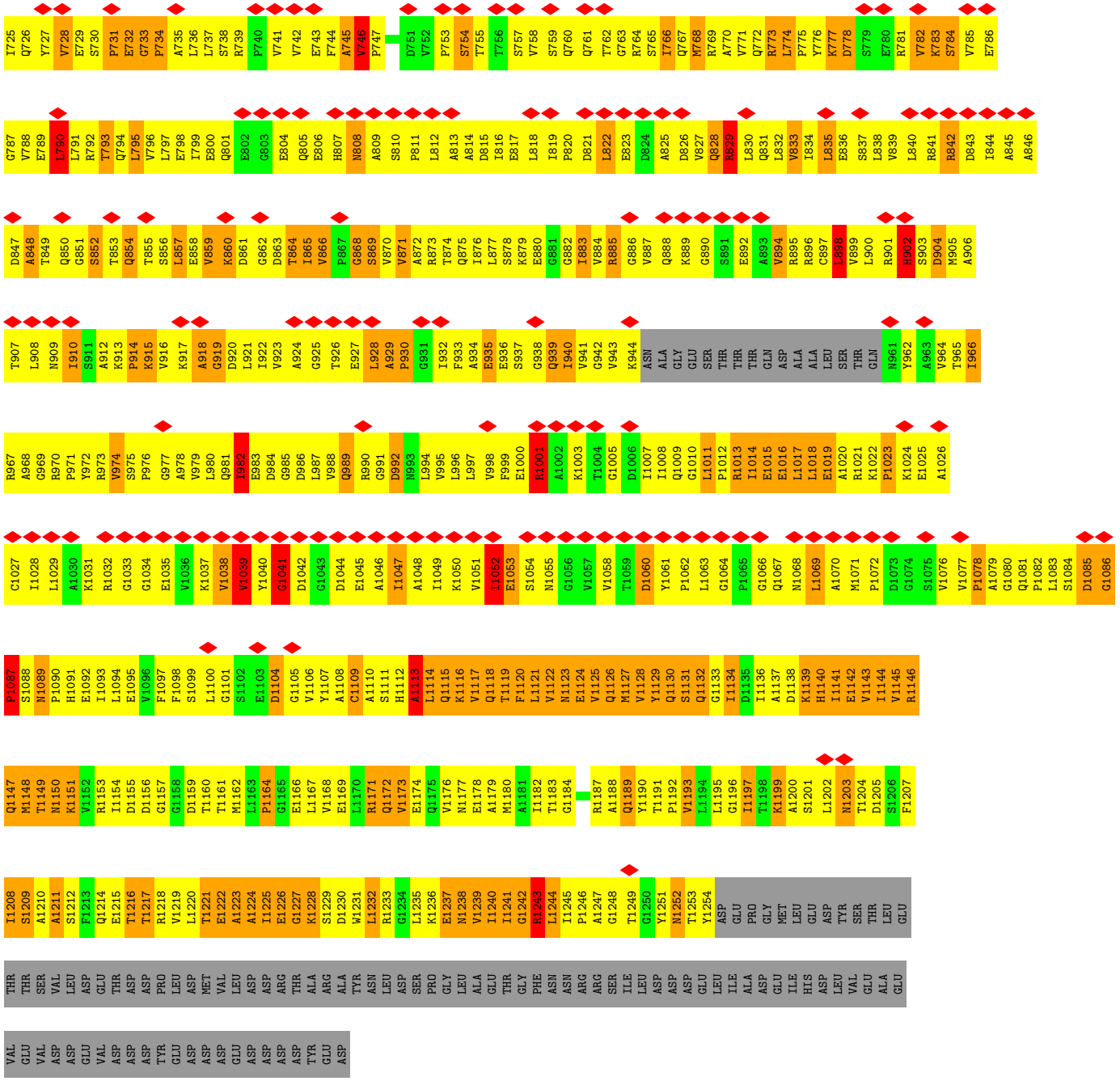




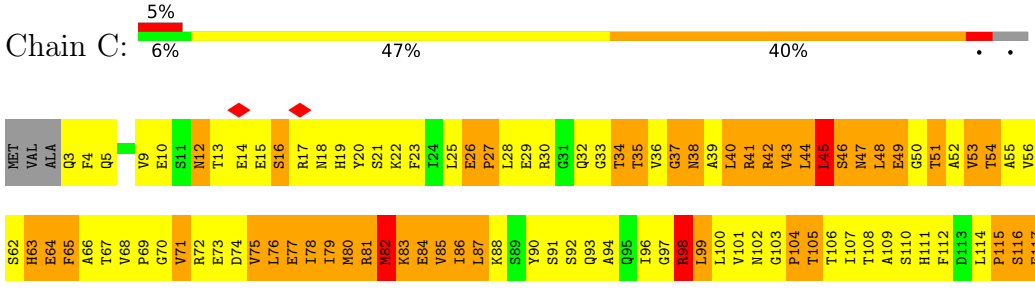
• Molecule 4: DNA-directed RNA polymerase subunit beta'

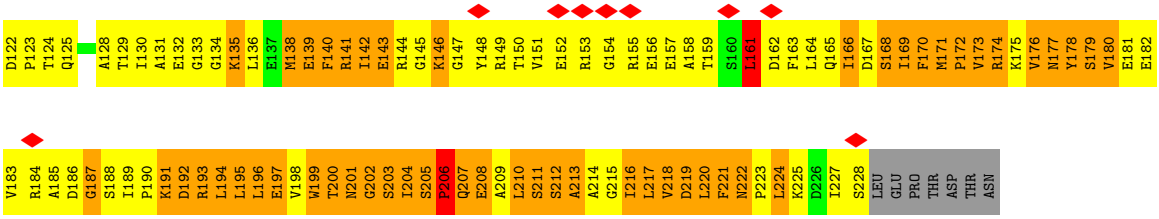
Chain B:





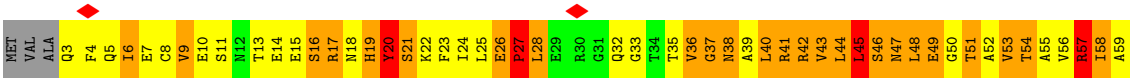
• Molecule 5: DNA-directed RNA polymerase subunit alpha

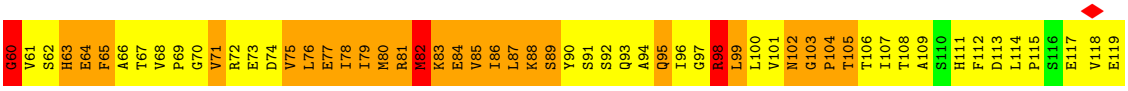


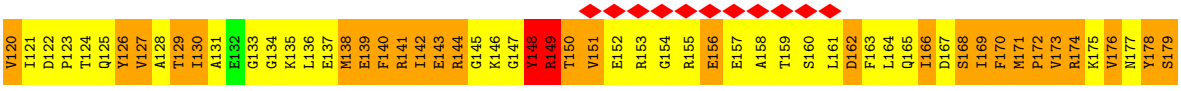


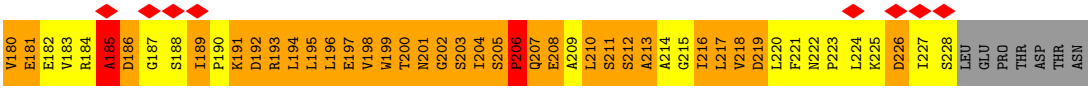
• Molecule 5: DNA-directed RNA polymerase subunit alpha

Chain D:



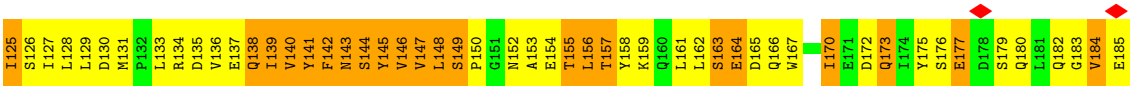


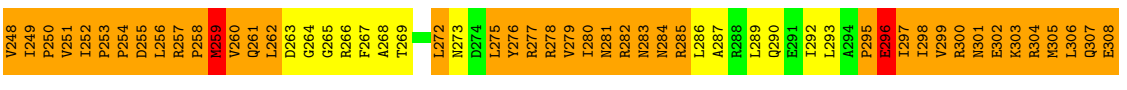


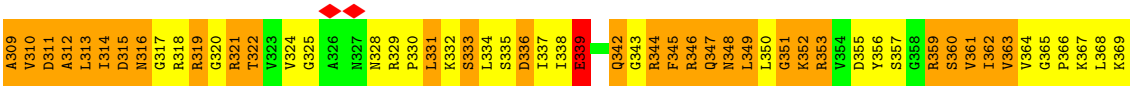


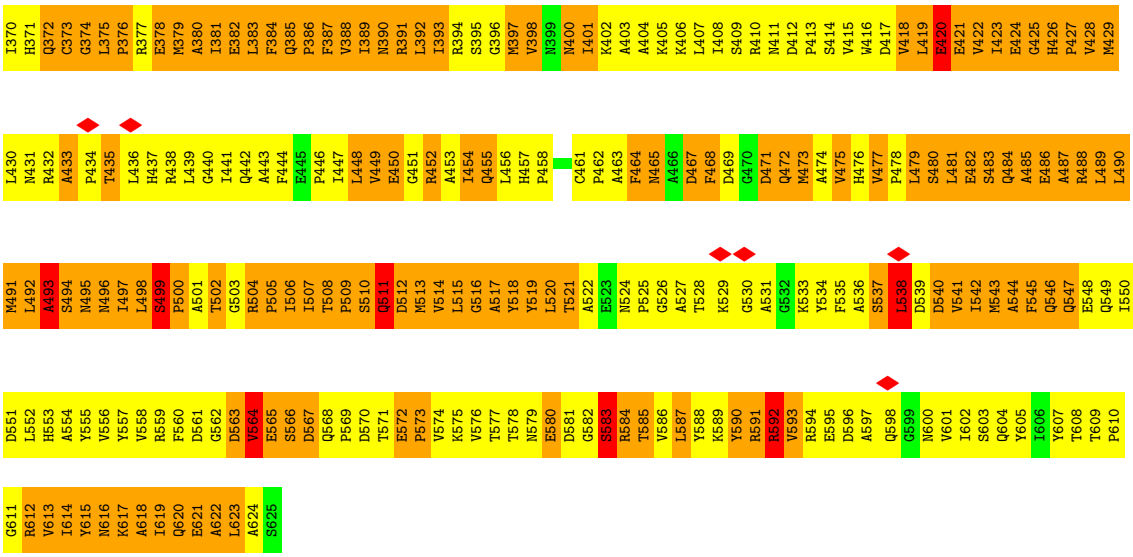
• Molecule 6: DNA-directed RNA polymerase subunit gamma

Chain E:

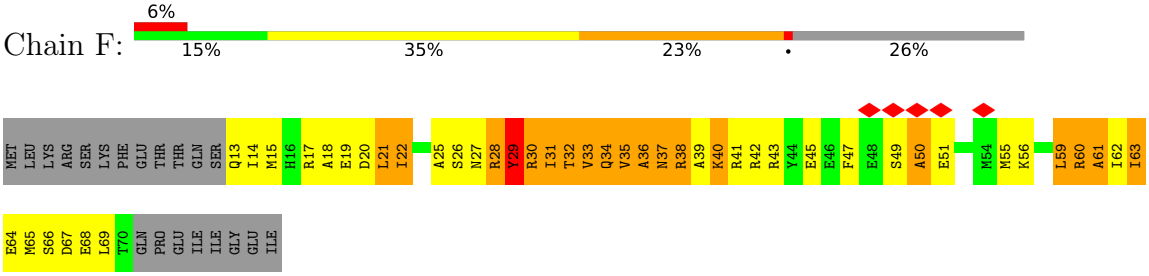




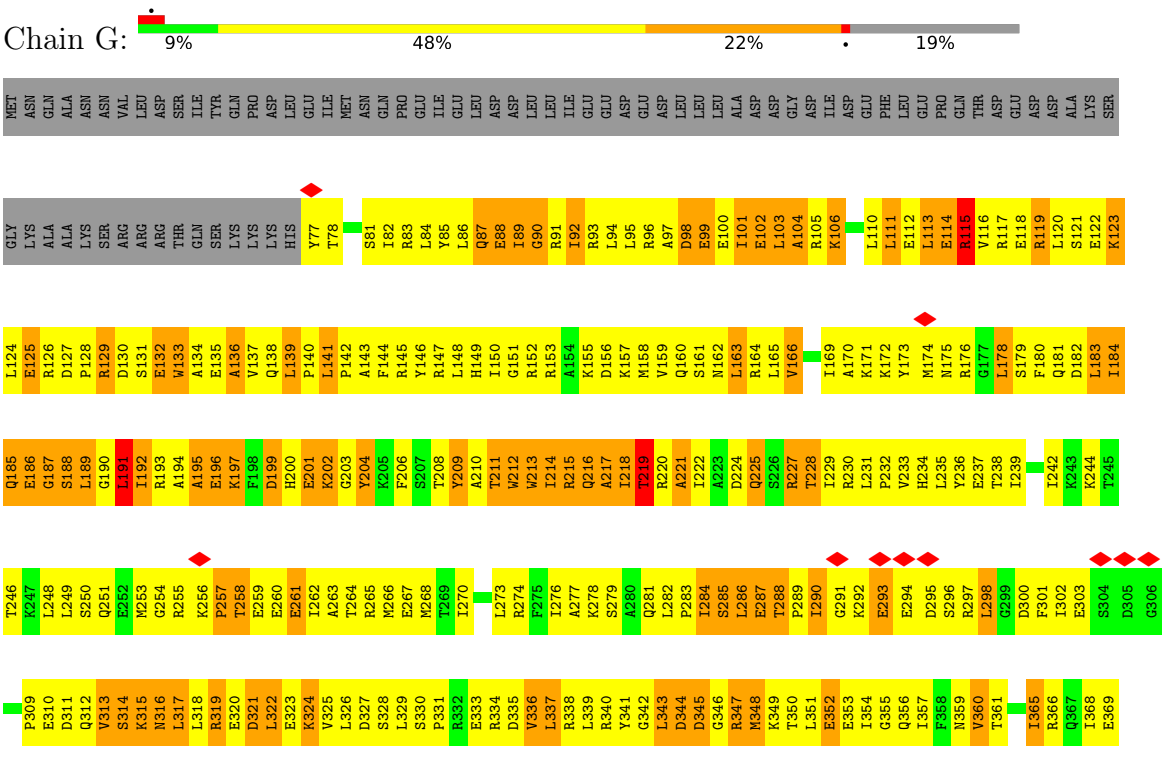


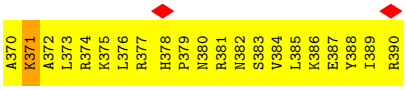


• Molecule 7: DNA-directed RNA polymerase subunit omega

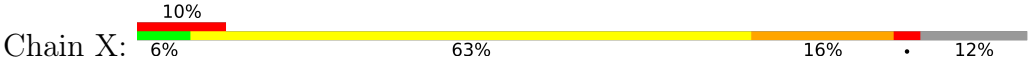


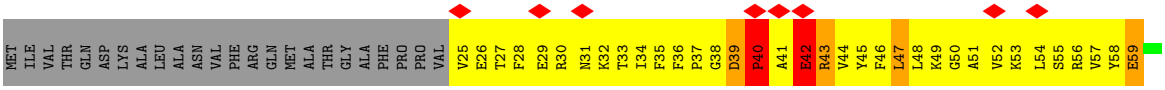
• Molecule 8: RNA polymerase sigma factor SigA

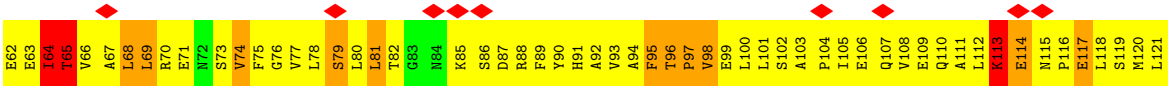


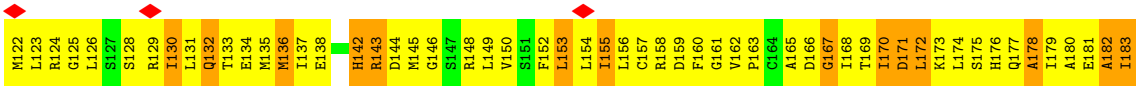


• Molecule 9: NtcA

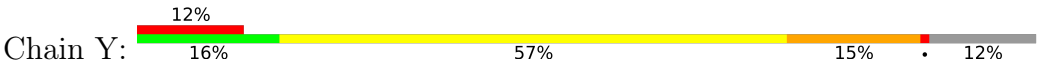


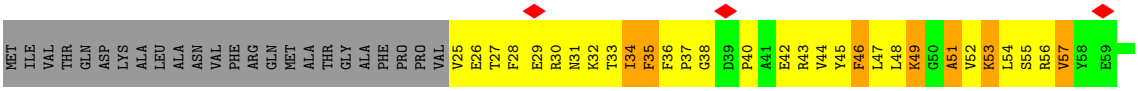


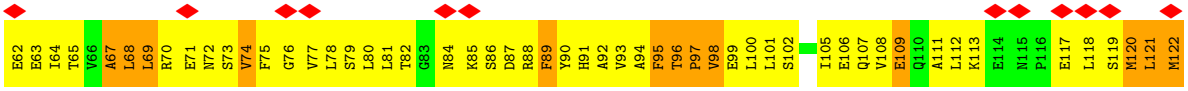


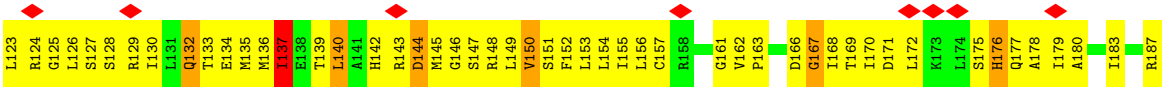


• Molecule 9: NtcA









4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	45239	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.045	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	321.00003, 321.00003, 321.00003	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	2.90	118/1523 (7.7%)	1.53	18/2350 (0.8%)
2	2	2.65	66/1244 (5.3%)	1.53	19/1915 (1.0%)
3	A	3.26	1063/8632 (12.3%)	2.31	597/11688 (5.1%)
4	B	2.17	464/9414 (4.9%)	1.90	362/12760 (2.8%)
5	C	3.03	162/1788 (9.1%)	2.23	99/2420 (4.1%)
5	D	3.14	177/1788 (9.9%)	2.33	112/2420 (4.6%)
6	E	3.35	771/5014 (15.4%)	2.25	311/6789 (4.6%)
7	F	2.50	45/478 (9.4%)	2.02	27/639 (4.2%)
8	G	2.10	108/2635 (4.1%)	1.80	82/3533 (2.3%)
9	X	1.25	4/1563 (0.3%)	1.75	42/2107 (2.0%)
9	Y	1.14	4/1563 (0.3%)	1.66	34/2107 (1.6%)
All	All	2.74	2982/35642 (8.4%)	2.05	1703/48728 (3.5%)

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
1	1	0	1
2	2	0	1
3	A	0	48
4	B	0	87
5	C	0	10
5	D	0	13
6	E	0	17
7	F	0	1
8	G	0	6
9	X	0	5
9	Y	0	6
All	All	0	195

All (2982) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1079	SER	CA-C	-39.16	1.04	1.53
5	D	45	LEU	CA-C	-38.41	0.98	1.52
5	C	45	LEU	CA-C	-38.39	0.98	1.52
6	E	117	TYR	CA-C	-33.36	0.97	1.52
6	E	61	ARG	CA-C	-33.30	1.03	1.52
3	A	309	TYR	CA-C	-27.74	1.13	1.52
4	B	656	ALA	CA-C	-24.69	1.19	1.52
3	A	423	HIS	C-N	-23.45	1.11	1.34
8	G	202	LYS	CA-C	-22.62	1.23	1.52
3	A	792	PHE	CA-C	-20.64	1.23	1.52
3	A	267	TYR	CA-CB	-20.61	1.26	1.52
5	C	170	PHE	C-N	-20.54	0.97	1.33
5	D	170	PHE	C-N	-20.53	0.98	1.33
6	E	499	SER	C-N	-20.29	1.09	1.33
2	2	67	DA	O3'-P	19.42	1.90	1.61
9	X	40	PRO	N-CA	17.70	1.70	1.47
3	A	866	LEU	C-N	-17.53	1.11	1.33
3	A	51	ASN	CA-C	-16.99	1.14	1.52
3	A	961	ASP	CA-CB	-16.61	1.25	1.53
3	A	738	ARG	CA-C	-16.13	1.30	1.52
6	E	538	LEU	CA-C	-15.52	1.31	1.53
3	A	964	THR	CA-CB	-14.85	1.28	1.53
3	A	323	ARG	CA-CB	-14.56	1.29	1.53
3	A	576	THR	CA-C	-14.02	1.33	1.52
4	B	508	GLY	C-N	-13.65	1.18	1.33
3	A	850	ASP	CB-CG	-13.45	1.18	1.52
1	1	62	DT	C1'-N1	-13.29	1.09	1.49
6	E	116	TRP	C-N	-13.04	1.16	1.33
3	A	684	GLN	CG-CD	-12.92	1.19	1.52
6	E	311	ASP	CB-CG	-12.80	1.20	1.52
4	B	653	TYR	CG-CD1	-12.53	1.13	1.39
3	A	690	TYR	CA-CB	-12.41	1.12	1.53
3	A	961	ASP	CB-CG	-12.34	1.21	1.52
3	A	1078	GLN	C-N	-12.28	1.16	1.33
8	G	197	LYS	CA-CB	-12.17	1.36	1.52
3	A	27	LEU	C-N	-12.15	1.05	1.33
4	B	38	ASP	CB-CG	-11.89	1.22	1.52
2	2	46	DT	C1'-N1	-11.84	1.14	1.49
8	G	201	GLU	C-N	-11.80	1.17	1.33
3	A	844	ARG	CB-CG	-11.76	1.17	1.52
5	C	82	MET	N-CA	-11.75	1.31	1.46
6	E	385	GLN	C-N	-11.71	1.06	1.33
5	D	82	MET	N-CA	-11.69	1.31	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	199	TRP	CB-CG	-11.67	1.14	1.50
5	D	199	TRP	CB-CG	-11.65	1.14	1.50
3	A	247	PRO	C-N	-11.60	1.19	1.33
3	A	323	ARG	CB-CG	-11.60	1.17	1.52
8	G	213	TRP	CB-CG	-11.53	1.14	1.50
8	G	288	THR	C-N	-11.46	1.19	1.33
3	A	720	GLU	CB-CG	-11.46	1.18	1.52
4	B	325	GLU	CB-CG	-11.44	1.18	1.52
6	E	142	PHE	CB-CG	-11.43	1.24	1.50
3	A	432	PRO	CA-C	-11.34	1.41	1.52
5	D	44	LEU	C-N	-11.33	1.16	1.33
4	B	708	LEU	C-N	-11.29	1.15	1.33
5	C	44	LEU	C-N	-11.28	1.16	1.33
3	A	526	TYR	CA-CB	-11.25	1.34	1.53
4	B	1123	ASN	CB-CG	-11.22	1.24	1.52
6	E	51	LYS	C-N	-11.15	1.07	1.33
5	D	81	ARG	CB-CG	-11.14	1.19	1.52
5	C	81	ARG	CB-CG	-11.13	1.19	1.52
2	2	37	DT	C1'-N1	-11.11	1.16	1.49
1	1	91	DT	C1'-N1	-11.05	1.16	1.49
3	A	144	SER	C-N	-11.05	1.20	1.33
3	A	685	ASN	CB-CG	-11.02	1.24	1.52
3	A	558	ASN	CB-CG	-10.92	1.24	1.52
3	A	564	VAL	C-N	-10.91	1.08	1.33
4	B	631	TRP	CG-CD1	-10.88	1.09	1.36
6	E	508	THR	C-N	-10.87	1.08	1.33
6	E	253	PRO	C-N	-10.84	1.08	1.33
3	A	1070	PHE	CB-CG	-10.75	1.25	1.50
5	D	177	ASN	CB-CG	-10.73	1.25	1.52
4	B	653	TYR	CE1-CZ	-10.72	1.12	1.38
1	1	72	DT	C1'-N1	-10.71	1.17	1.49
5	C	177	ASN	CB-CG	-10.70	1.25	1.52
3	A	34	GLN	CB-CG	-10.67	1.20	1.52
3	A	882	ILE	CB-CG1	-10.65	1.32	1.53
4	B	795	LEU	CG-CD1	-10.64	1.17	1.52
3	A	684	GLN	CB-CG	-10.62	1.20	1.52
3	A	881	ASP	CB-CG	-10.62	1.25	1.52
6	E	60	GLU	C-N	-10.61	1.19	1.33
6	E	310	VAL	CB-CG2	-10.57	1.17	1.52
6	E	296	GLU	CA-C	-10.47	1.39	1.52
6	E	117	TYR	C-O	-10.41	1.10	1.24
6	E	279	VAL	CB-CG2	-10.28	1.18	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	271	GLU	CG-CD	-10.25	1.26	1.52
6	E	143	ASN	CB-CG	-10.24	1.26	1.52
3	A	976	VAL	CA-C	-10.24	1.44	1.52
6	E	116	TRP	CB-CG	-10.23	1.18	1.50
1	1	96	DC	C1'-N1	-10.20	1.18	1.49
6	E	615	TYR	CB-CG	-10.18	1.29	1.51
6	E	363	VAL	CB-CG1	-10.16	1.19	1.52
1	1	99	DT	C4-C5	-10.14	1.24	1.44
6	E	249	ILE	C-N	-10.12	1.10	1.33
6	E	425	GLY	C-N	-10.09	1.20	1.33
3	A	671	ASP	CA-CB	-10.07	1.30	1.53
1	1	95	DT	C1'-N1	-10.06	1.19	1.49
5	C	205	SER	C-N	-10.04	1.10	1.33
5	D	205	SER	C-N	-10.03	1.10	1.33
3	A	816	ASP	CB-CG	-10.01	1.27	1.52
3	A	865	ILE	CB-CG2	-10.01	1.19	1.52
3	A	222	THR	CB-CG2	-10.00	1.19	1.52
3	A	883	VAL	CB-CG1	-10.00	1.19	1.52
6	E	475	VAL	CB-CG2	-9.98	1.19	1.52
4	B	42	ARG	CB-CG	-9.98	1.22	1.52
6	E	284	ASN	CB-CG	-9.97	1.27	1.52
3	A	1040	VAL	CA-CB	-9.94	1.42	1.54
4	B	15	ASN	CB-CG	-9.93	1.27	1.52
6	E	281	ASN	CB-CG	-9.92	1.27	1.52
6	E	305	MET	CB-CG	-9.92	1.22	1.52
3	A	865	ILE	C-N	-9.91	0.98	1.33
3	A	905	TRP	CE2-CZ2	-9.91	1.19	1.39
6	E	314	ILE	CB-CG2	-9.90	1.19	1.52
3	A	560	GLN	CB-CG	-9.87	1.22	1.52
3	A	391	ASN	CB-CG	-9.84	1.27	1.52
6	E	362	ILE	CB-CG1	-9.83	1.33	1.53
3	A	957	ILE	CG1-CD1	-9.82	1.13	1.51
3	A	762	TRP	CB-CG	-9.81	1.19	1.50
6	E	347	GLN	CA-CB	-9.81	1.36	1.53
3	A	703	LEU	CG-CD2	-9.81	1.20	1.52
2	2	45	DA	C1'-N9	-9.80	1.26	1.46
6	E	233	ASN	CB-CG	-9.77	1.27	1.52
3	A	865	ILE	CG1-CD1	-9.67	1.14	1.51
2	2	36	DT	C1'-N1	-9.66	1.20	1.49
3	A	850	ASP	CA-CB	-9.66	1.38	1.53
6	E	572	GLU	C-N	-9.65	1.19	1.33
5	C	176	VAL	CB-CG1	-9.64	1.20	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	900	GLU	CB-CG	-9.64	1.23	1.52
5	D	176	VAL	CB-CG1	-9.63	1.20	1.52
1	1	97	DT	C1'-N1	-9.62	1.20	1.49
3	A	391	ASN	C-N	-9.62	1.11	1.33
5	C	195	LEU	CA-CB	-9.60	1.22	1.53
3	A	846	ILE	CG1-CD1	-9.59	1.14	1.51
3	A	31	ILE	CA-C	-9.59	1.40	1.52
5	D	195	LEU	CA-CB	-9.59	1.22	1.53
6	E	613	VAL	CB-CG1	-9.58	1.21	1.52
4	B	210	ARG	CG-CD	-9.58	1.23	1.52
3	A	1079	SER	C-O	-9.57	1.10	1.23
4	B	1123	ASN	CA-C	-9.56	1.40	1.52
3	A	715	THR	CA-CB	-9.53	1.34	1.54
6	E	359	ARG	CA-CB	-9.53	1.38	1.53
3	A	959	VAL	CB-CG1	-9.52	1.21	1.52
5	D	45	LEU	C-O	-9.51	1.11	1.24
6	E	373	CYS	CB-SG	-9.49	1.50	1.81
3	A	149	TYR	CA-CB	-9.48	1.32	1.53
5	C	45	LEU	C-O	-9.48	1.11	1.24
6	E	512	ASP	CB-CG	-9.46	1.28	1.52
3	A	561	ARG	CA-C	-9.45	1.38	1.52
3	A	842	GLN	CB-CG	-9.45	1.24	1.52
3	A	388	ASP	C-N	-9.44	1.22	1.33
6	E	428	VAL	CB-CG2	-9.43	1.21	1.52
3	A	846	ILE	CB-CG2	-9.43	1.21	1.52
3	A	880	VAL	CB-CG2	-9.43	1.21	1.52
3	A	974	ILE	CB-CG2	-9.41	1.21	1.52
4	B	260	ARG	CB-CG	-9.41	1.24	1.52
3	A	1078	GLN	CB-CG	-9.39	1.24	1.52
7	F	34	GLN	CB-CG	-9.38	1.24	1.52
6	E	507	ILE	CB-CG2	-9.38	1.21	1.52
3	A	899	PHE	CA-C	-9.36	1.40	1.52
4	B	197	THR	CA-CB	-9.36	1.38	1.53
1	1	104	DT	C1'-N1	-9.35	1.21	1.49
3	A	687	VAL	CB-CG1	-9.34	1.21	1.52
3	A	397	THR	CA-CB	-9.33	1.37	1.53
4	B	1222	GLU	CA-CB	-9.31	1.39	1.53
6	E	511	GLN	CB-CG	-9.28	1.24	1.52
3	A	1040	VAL	CA-C	-9.27	1.40	1.52
6	E	363	VAL	CA-CB	-9.27	1.46	1.55
6	E	518	TYR	CB-CG	-9.27	1.31	1.51
5	D	38	ASN	CB-CG	-9.25	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	81	ARG	CA-CB	-9.25	1.39	1.53
5	C	81	ARG	CA-CB	-9.24	1.39	1.53
5	C	38	ASN	CB-CG	-9.24	1.28	1.52
3	A	960	TYR	CA-CB	-9.23	1.39	1.53
3	A	898	VAL	CB-CG1	-9.22	1.22	1.52
4	B	1147	GLN	CB-CG	-9.22	1.24	1.52
3	A	389	GLN	CA-C	-9.21	1.39	1.52
6	E	496	ASN	CB-CG	-9.21	1.29	1.52
4	B	1126	GLN	CB-CG	-9.21	1.24	1.52
3	A	674	SER	CA-CB	-9.20	1.24	1.53
3	A	395	GLU	CB-CG	-9.20	1.24	1.52
6	E	477	VAL	CB-CG1	-9.18	1.22	1.52
6	E	310	VAL	CA-C	-9.17	1.41	1.52
8	G	139	LEU	C-N	-9.17	1.23	1.33
1	1	61	DT	C4-C5	-9.17	1.26	1.44
6	E	278	ARG	CB-CG	-9.15	1.25	1.52
3	A	848	VAL	CB-CG1	-9.13	1.22	1.52
3	A	897	GLN	CB-CG	-9.13	1.25	1.52
6	E	311	ASP	CA-CB	-9.10	1.39	1.53
5	C	219	ASP	CB-CG	-9.10	1.29	1.52
6	E	563	ASP	CB-CG	-9.10	1.29	1.52
4	B	1238	ASN	CB-CG	-9.09	1.29	1.52
3	A	452	ARG	CG-CD	-9.09	1.25	1.52
3	A	561	ARG	CB-CG	-9.07	1.25	1.52
3	A	905	TRP	CB-CG	-9.07	1.22	1.50
5	D	219	ASP	CB-CG	-9.05	1.29	1.52
3	A	882	ILE	CA-CB	-9.04	1.41	1.54
3	A	454	ASN	CB-CG	-9.03	1.29	1.52
6	E	385	GLN	CB-CG	-8.99	1.25	1.52
2	2	57	DT	C1'-N1	-8.99	1.22	1.49
6	E	280	ILE	CG1-CD1	-8.99	1.16	1.51
4	B	220	ILE	C-N	-8.98	1.12	1.33
3	A	1086	VAL	CB-CG1	-8.97	1.23	1.52
6	E	361	VAL	CB-CG1	-8.96	1.23	1.52
4	B	1238	ASN	CA-CB	-8.96	1.38	1.53
3	A	548	ASP	CB-CG	-8.96	1.29	1.52
3	A	880	VAL	CB-CG1	-8.96	1.23	1.52
6	E	277	ARG	CB-CG	-8.96	1.25	1.52
6	E	511	GLN	CG-CD	-8.96	1.29	1.52
6	E	142	PHE	C-N	-8.94	1.16	1.34
3	A	688	VAL	CB-CG2	-8.94	1.23	1.52
6	E	428	VAL	CB-CG1	-8.93	1.23	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	575	GLY	C-N	-8.93	1.22	1.33
3	A	378	PHE	CB-CG	-8.93	1.30	1.50
3	A	963	ARG	C-N	-8.93	1.21	1.33
3	A	691	MET	CB-CG	-8.92	1.25	1.52
6	E	388	VAL	CB-CG1	-8.90	1.23	1.52
3	A	704	ILE	CB-CG2	-8.89	1.23	1.52
4	B	481	TRP	CB-CG	-8.87	1.22	1.50
3	A	883	VAL	CB-CG2	-8.86	1.23	1.52
5	D	20	TYR	CB-CG	-8.85	1.32	1.51
6	E	546	GLN	CB-CG	-8.85	1.25	1.52
3	A	1070	PHE	CA-CB	-8.84	1.38	1.53
6	E	255	ASP	CB-CG	-8.84	1.29	1.52
4	B	519	HIS	C-O	-8.84	1.12	1.24
6	E	488	ARG	CG-CD	-8.84	1.25	1.52
4	B	1145	VAL	CB-CG1	-8.83	1.23	1.52
4	B	34	ASP	CB-CG	-8.83	1.29	1.52
3	A	898	VAL	CB-CG2	-8.81	1.23	1.52
4	B	262	THR	C-N	-8.81	1.13	1.33
4	B	1222	GLU	CB-CG	-8.81	1.26	1.52
4	B	1237	GLU	CB-CG	-8.81	1.26	1.52
3	A	1036	GLU	CB-CG	-8.78	1.26	1.52
4	B	208	ILE	CA-CB	-8.79	1.43	1.54
4	B	1141	ILE	CG1-CD1	-8.77	1.17	1.51
6	E	497	ILE	CB-CG2	-8.77	1.23	1.52
3	A	882	ILE	CG1-CD1	-8.77	1.17	1.51
6	E	362	ILE	CG1-CD1	-8.75	1.17	1.51
3	A	1093	ALA	CA-C	-8.75	1.42	1.53
6	E	285	ARG	CG-CD	-8.74	1.26	1.52
3	A	571	ARG	CB-CG	-8.73	1.26	1.52
3	A	135	ARG	CA-CB	-8.71	1.38	1.53
4	B	1145	VAL	CB-CG2	-8.70	1.23	1.52
6	E	251	VAL	CB-CG2	-8.70	1.23	1.52
6	E	473	MET	CA-CB	-8.69	1.42	1.53
3	A	1036	GLU	CG-CD	-8.67	1.30	1.52
6	E	143	ASN	CA-CB	-8.67	1.32	1.54
6	E	359	ARG	CB-CG	-8.66	1.26	1.52
3	A	979	MET	CB-CG	-8.66	1.26	1.52
3	A	1004	GLN	C-N	-8.65	1.13	1.33
3	A	688	VAL	CB-CG1	-8.65	1.24	1.52
6	E	482	GLU	CB-CG	-8.64	1.26	1.52
1	1	74	DT	C1'-N1	-8.64	1.23	1.49
3	A	574	VAL	CB-CG1	-8.63	1.24	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	F	35	VAL	CB-CG1	-8.63	1.24	1.52
2	2	53	DT	C1'-N1	-8.62	1.23	1.49
2	2	39	DT	C1'-N1	-8.62	1.23	1.49
3	A	905	TRP	CG-CD2	-8.62	1.28	1.43
6	E	545	PHE	CB-CG	-8.62	1.30	1.50
3	A	899	PHE	CB-CG	-8.59	1.30	1.50
3	A	33	ILE	CG1-CD1	-8.59	1.18	1.51
3	A	560	GLN	CA-CB	-8.56	1.39	1.53
6	E	385	GLN	CG-CD	-8.56	1.30	1.52
3	A	882	ILE	CB-CG2	-8.55	1.24	1.52
3	A	573	LEU	CA-C	-8.55	1.40	1.52
4	B	322	SER	CA-CB	-8.54	1.40	1.53
3	A	685	ASN	CG-ND2	-8.53	1.15	1.33
3	A	494	ASP	CA-CB	-8.52	1.32	1.53
4	B	177	TYR	CB-CG	-8.51	1.32	1.51
6	E	362	ILE	CB-CG2	-8.51	1.24	1.52
6	E	106	ILE	CB-CG2	-8.51	1.24	1.52
3	A	399	LYS	CB-CG	-8.50	1.26	1.52
4	B	258	ALA	C-N	-8.50	1.14	1.33
6	E	477	VAL	C-N	-8.50	1.14	1.33
3	A	128	PHE	CB-CG	-8.50	1.31	1.50
3	A	686	ILE	CG1-CD1	-8.50	1.18	1.51
5	C	48	LEU	CA-C	-8.49	1.44	1.53
6	E	495	ASN	CA-CB	-8.49	1.42	1.52
6	E	488	ARG	CB-CG	-8.49	1.26	1.52
6	E	502	THR	CB-CG2	-8.49	1.24	1.52
3	A	495	ILE	C-N	-8.48	1.14	1.33
5	D	48	LEU	CA-C	-8.48	1.44	1.53
3	A	671	ASP	CB-CG	-8.48	1.30	1.52
3	A	326	ARG	CA-CB	-8.48	1.36	1.54
5	C	198	VAL	CB-CG1	-8.47	1.24	1.52
4	B	1144	ILE	CG1-CD1	-8.47	1.18	1.51
6	E	382	GLU	CB-CG	-8.47	1.27	1.52
3	A	139	ASN	CB-CG	-8.47	1.30	1.52
5	D	198	VAL	CB-CG1	-8.46	1.24	1.52
4	B	271	GLU	CB-CG	-8.46	1.27	1.52
6	E	285	ARG	CB-CG	-8.46	1.27	1.52
3	A	390	THR	CB-CG2	-8.46	1.24	1.52
4	B	261	ASN	CB-CG	-8.45	1.30	1.52
6	E	339	GLU	CB-CG	-8.46	1.27	1.52
4	B	653	TYR	CE2-CZ	-8.45	1.18	1.38
4	B	28	ARG	CB-CG	-8.44	1.27	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	308	GLU	CB-CG	-8.43	1.27	1.52
6	E	454	ILE	CB-CG2	-8.43	1.24	1.52
4	B	38	ASP	CA-CB	-8.43	1.40	1.53
6	E	61	ARG	N-CA	-8.42	1.35	1.46
3	A	1032	TYR	CA-C	-8.41	1.42	1.52
3	A	687	VAL	CB-CG2	-8.41	1.24	1.52
4	B	28	ARG	CA-CB	-8.39	1.40	1.53
6	E	512	ASP	CA-CB	-8.38	1.40	1.53
3	A	393	LEU	CG-CD1	-8.38	1.25	1.52
4	B	1221	THR	CA-CB	-8.37	1.40	1.53
2	2	32	DA	C1'-N9	-8.37	1.29	1.46
3	A	899	PHE	CA-CB	-8.37	1.40	1.53
4	B	29	THR	CA-CB	-8.37	1.40	1.53
3	A	1035	GLN	CB-CG	-8.35	1.27	1.52
3	A	720	GLU	CG-CD	-8.35	1.31	1.52
7	F	35	VAL	CB-CG2	-8.34	1.25	1.52
5	D	149	ARG	CA-CB	-8.33	1.38	1.53
3	A	976	VAL	CB-CG1	-8.33	1.25	1.52
3	A	715	THR	CB-CG2	-8.32	1.25	1.52
3	A	579	GLU	CB-CG	-8.32	1.27	1.52
3	A	597	ASP	CB-CG	-8.31	1.31	1.52
4	B	1222	GLU	CA-C	-8.30	1.42	1.52
4	B	280	VAL	CB-CG1	-8.30	1.25	1.52
6	E	251	VAL	CB-CG1	-8.29	1.25	1.52
3	A	976	VAL	CB-CG2	-8.29	1.25	1.52
4	B	1241	ILE	CB-CG1	-8.29	1.36	1.53
3	A	837	ARG	CB-CG	-8.28	1.27	1.52
6	E	138	GLN	CA-C	-8.27	1.41	1.52
7	F	37	ASN	CB-CG	-8.27	1.31	1.52
3	A	685	ASN	CA-CB	-8.27	1.38	1.53
6	E	361	VAL	CA-CB	-8.27	1.43	1.54
3	A	737	THR	C-N	-8.26	1.21	1.33
6	E	480	SER	CA-C	-8.26	1.41	1.52
6	E	514	VAL	CB-CG1	-8.26	1.25	1.52
6	E	477	VAL	CB-CG2	-8.25	1.25	1.52
3	A	932	VAL	CB-CG2	-8.25	1.25	1.52
6	E	464	PHE	CB-CG	-8.25	1.31	1.50
3	A	973	THR	CB-CG2	-8.24	1.25	1.52
6	E	299	VAL	CB-CG1	-8.24	1.25	1.52
6	E	61	ARG	C-O	-8.23	1.12	1.24
6	E	275	LEU	CA-C	-8.23	1.42	1.52
6	E	306	LEU	CG-CD2	-8.23	1.25	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	363	VAL	CB-CG2	-8.22	1.25	1.52
8	G	185	GLN	CB-CG	-8.21	1.27	1.52
4	B	19	TRP	CB-CG	-8.20	1.24	1.50
6	E	514	VAL	CB-CG2	-8.20	1.25	1.52
3	A	675	THR	CA-CB	-8.20	1.39	1.53
3	A	932	VAL	CB-CG1	-8.19	1.25	1.52
3	A	595	ASP	CB-CG	-8.18	1.31	1.52
6	E	248	VAL	CB-CG1	-8.17	1.25	1.52
6	E	388	VAL	CB-CG2	-8.16	1.25	1.52
6	E	105	TYR	CB-CG	-8.16	1.33	1.51
5	D	149	ARG	CA-C	-8.15	1.42	1.52
6	E	307	GLN	CG-CD	-8.15	1.31	1.52
6	E	252	ILE	CB-CG2	-8.15	1.25	1.52
6	E	515	LEU	CG-CD1	-8.15	1.25	1.52
4	B	21	PHE	CB-CG	-8.14	1.31	1.50
6	E	279	VAL	CA-C	-8.14	1.42	1.52
6	E	316	ASN	CB-CG	-8.14	1.31	1.52
3	A	840	VAL	CB-CG1	-8.14	1.25	1.52
3	A	1032	TYR	CB-CG	-8.14	1.33	1.51
6	E	245	VAL	CB-CG2	-8.13	1.25	1.52
1	1	86	DG	C1'-N9	-8.12	1.30	1.46
3	A	1040	VAL	CB-CG1	-8.11	1.25	1.52
5	D	171	MET	C-N	-8.11	1.14	1.33
4	B	196	LEU	CA-C	-8.11	1.42	1.52
3	A	998	TYR	CB-CG	-8.11	1.33	1.51
5	C	171	MET	C-N	-8.11	1.14	1.33
3	A	690	TYR	CB-CG	-8.10	1.33	1.51
5	D	219	ASP	N-CA	-8.10	1.38	1.46
6	E	615	TYR	CA-CB	-8.10	1.39	1.53
6	E	452	ARG	CB-CG	-8.10	1.28	1.52
3	A	388	ASP	CB-CG	-8.09	1.31	1.52
3	A	31	ILE	CB-CG2	-8.09	1.25	1.52
3	A	1078	GLN	CG-CD	-8.09	1.31	1.52
6	E	302	GLU	CB-CG	-8.08	1.28	1.52
3	A	686	ILE	CB-CG2	-8.08	1.25	1.52
3	A	716	SER	CA-CB	-8.06	1.39	1.53
6	E	247	THR	CA-CB	-8.06	1.39	1.53
6	E	308	GLU	CG-CD	-8.06	1.31	1.52
6	E	373	CYS	CA-CB	-8.05	1.39	1.53
6	E	249	ILE	CB-CG2	-8.05	1.25	1.52
6	E	278	ARG	CA-CB	-8.05	1.40	1.53
6	E	248	VAL	CB-CG2	-8.04	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	449	THR	CB-CG2	-8.04	1.26	1.52
8	G	87	GLN	CA-C	-8.04	1.42	1.52
3	A	717	ILE	CB-CG2	-8.03	1.26	1.52
3	A	1068	GLU	CB-CG	-8.03	1.28	1.52
4	B	1147	GLN	CG-CD	-8.03	1.31	1.52
4	B	1141	ILE	CB-CG2	-8.02	1.26	1.52
1	1	75	DA	C5-C6	-8.02	1.25	1.41
4	B	17	ILE	CG1-CD1	-8.02	1.20	1.51
3	A	676	GLU	CB-CG	-8.01	1.28	1.52
3	A	900	GLU	CG-CD	-8.01	1.32	1.52
3	A	959	VAL	CB-CG2	-8.01	1.26	1.52
6	E	475	VAL	CB-CG1	-8.01	1.26	1.52
6	E	620	GLN	CB-CG	-8.01	1.28	1.52
6	E	426	HIS	CA-CB	-8.01	1.43	1.53
3	A	978	TYR	CB-CG	-7.99	1.34	1.51
3	A	1039	THR	CA-CB	-7.99	1.43	1.53
4	B	198	ARG	CB-CG	-7.98	1.28	1.52
4	B	42	ARG	CA-CB	-7.98	1.40	1.53
4	B	1225	ILE	CB-CG2	-7.98	1.26	1.52
3	A	564	VAL	CB-CG2	-7.97	1.26	1.52
4	B	1143	VAL	CB-CG2	-7.97	1.26	1.52
8	G	219	THR	CA-CB	-7.97	1.40	1.53
6	E	310	VAL	C-N	-7.96	1.24	1.33
6	E	495	ASN	CB-CG	-7.96	1.32	1.52
6	E	234	PHE	CB-CG	-7.95	1.32	1.50
2	2	31	DA	C1'-N9	-7.94	1.30	1.46
4	B	209	ILE	CB-CG2	-7.94	1.26	1.52
6	E	353	ARG	CB-CG	-7.94	1.28	1.52
6	E	423	ILE	CB-CG1	-7.94	1.37	1.53
8	G	218	ILE	CA-CB	-7.94	1.45	1.54
3	A	844	ARG	CG-CD	-7.92	1.28	1.52
1	1	85	DG	C1'-N9	-7.92	1.30	1.46
3	A	559	MET	CG-SD	-7.92	1.60	1.80
3	A	957	ILE	CB-CG2	-7.91	1.26	1.52
3	A	686	ILE	CA-CB	-7.91	1.43	1.54
3	A	1076	GLU	CB-CG	-7.90	1.28	1.52
5	D	173	VAL	CB-CG1	-7.89	1.26	1.52
5	C	43	VAL	CB-CG1	-7.89	1.26	1.52
6	E	513	MET	CB-CG	-7.89	1.28	1.52
4	B	631	TRP	CD2-CE3	-7.89	1.27	1.40
6	E	279	VAL	CB-CG1	-7.89	1.26	1.52
3	A	901	CYS	CB-SG	-7.88	1.55	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	937	GLN	CA-C	-7.88	1.42	1.52
6	E	232	ASP	CA-C	-7.88	1.42	1.52
1	1	84	DA	C5-C6	-7.87	1.25	1.41
2	2	33	DA	N9-C4	-7.86	1.22	1.38
5	C	173	VAL	CB-CG1	-7.86	1.26	1.52
6	E	472	GLN	CB-CG	-7.86	1.28	1.52
4	B	1118	GLN	CB-CG	-7.85	1.28	1.52
4	B	43	TYR	CB-CG	-7.84	1.34	1.51
3	A	1034	LEU	CG-CD2	-7.84	1.26	1.52
5	D	43	VAL	CB-CG1	-7.84	1.26	1.52
1	1	77	DA	N9-C4	-7.84	1.22	1.38
3	A	791	ILE	C-N	-7.83	1.22	1.33
3	A	525	ASP	CB-CG	-7.83	1.32	1.52
2	2	66	DA	N9-C4	-7.83	1.22	1.38
3	A	226	GLU	CG-CD	-7.82	1.32	1.52
3	A	740	ILE	C-N	-7.82	1.23	1.33
3	A	390	THR	CA-CB	-7.81	1.41	1.53
6	E	490	LEU	CG-CD2	-7.80	1.26	1.52
4	B	43	TYR	CG-CD1	-7.80	1.23	1.39
6	E	106	ILE	CA-CB	-7.80	1.44	1.54
5	C	197	GLU	CB-CG	-7.80	1.29	1.52
3	A	136	VAL	CB-CG2	-7.79	1.26	1.52
4	B	1239	VAL	CB-CG1	-7.79	1.26	1.52
6	E	249	ILE	CB-CG1	-7.79	1.37	1.53
6	E	314	ILE	CG1-CD1	-7.78	1.21	1.51
6	E	540	ASP	CB-CG	-7.78	1.32	1.52
3	A	980	LEU	CB-CG	-7.78	1.37	1.53
3	A	719	ILE	CG1-CD1	-7.77	1.21	1.51
4	B	201	VAL	CB-CG1	-7.77	1.26	1.52
5	D	197	GLU	CB-CG	-7.77	1.29	1.52
6	E	300	ARG	CB-CG	-7.77	1.29	1.52
4	B	177	TYR	CA-CB	-7.77	1.41	1.53
6	E	60	GLU	CB-CG	-7.77	1.29	1.52
3	A	401	ARG	CB-CG	-7.75	1.29	1.52
3	A	689	ALA	CA-CB	-7.75	1.40	1.53
6	E	476	HIS	CA-CB	-7.74	1.40	1.54
6	E	615	TYR	CE2-CZ	-7.74	1.19	1.38
4	B	22	THR	CA-CB	-7.73	1.40	1.53
6	E	252	ILE	CB-CG1	-7.73	1.38	1.53
8	G	88	GLU	CB-CG	-7.73	1.29	1.52
8	G	87	GLN	CG-CD	-7.72	1.32	1.52
3	A	139	ASN	CA-CB	-7.72	1.34	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	191	LEU	CA-C	-7.72	1.42	1.52
2	2	43	DG	C3'-O3'	-7.72	1.19	1.42
3	A	960	TYR	CB-CG	-7.71	1.34	1.51
4	B	243	VAL	CB-CG2	-7.71	1.27	1.52
6	E	499	SER	CA-CB	-7.71	1.39	1.53
3	A	974	ILE	CB-CG1	-7.70	1.38	1.53
4	B	31	VAL	CB-CG1	-7.70	1.27	1.52
5	D	219	ASP	CA-C	-7.70	1.44	1.53
3	A	1035	GLN	CG-CD	-7.70	1.32	1.52
3	A	852	MET	CB-CG	-7.69	1.29	1.52
4	B	1151	LYS	C-N	-7.69	1.23	1.33
6	E	383	LEU	CG-CD2	-7.69	1.27	1.52
3	A	135	ARG	CB-CG	-7.69	1.29	1.52
4	B	196	LEU	CB-CG	-7.69	1.38	1.53
5	D	141	ARG	CG-CD	-7.69	1.29	1.52
3	A	1087	HIS	CA-CB	-7.68	1.41	1.53
3	A	960	TYR	CA-C	-7.68	1.44	1.53
6	E	103	MET	CB-CG	-7.68	1.29	1.52
5	C	141	ARG	CG-CD	-7.68	1.29	1.52
6	E	453	ALA	C-N	-7.67	1.23	1.33
4	B	1228	LYS	CB-CG	-7.67	1.29	1.52
2	2	38	DT	C1'-N1	-7.67	1.26	1.49
3	A	959	VAL	C-N	-7.67	1.20	1.33
8	G	133	TRP	CB-CG	-7.67	1.26	1.50
3	A	787	LEU	CA-C	-7.67	1.43	1.52
4	B	1208	ILE	CA-CB	-7.66	1.45	1.54
4	B	1123	ASN	CA-CB	-7.66	1.41	1.53
6	E	382	GLU	CA-C	-7.66	1.42	1.52
5	D	148	TYR	C-N	-7.65	1.23	1.33
8	G	212	TRP	CB-CG	-7.65	1.26	1.50
3	A	396	LEU	CA-C	-7.65	1.42	1.52
6	E	375	LEU	C-N	-7.65	1.24	1.33
6	E	319	ARG	CG-CD	-7.64	1.29	1.52
3	A	400	ARG	CB-CG	-7.63	1.29	1.52
3	A	846	ILE	CB-CG1	-7.63	1.38	1.53
3	A	434	GLU	CB-CG	-7.62	1.29	1.52
3	A	941	ASP	CB-CG	-7.62	1.32	1.52
4	B	481	TRP	CE2-CZ2	-7.61	1.23	1.39
4	B	210	ARG	CB-CG	-7.61	1.29	1.52
4	B	200	LEU	CA-C	-7.60	1.43	1.52
3	A	452	ARG	CB-CG	-7.60	1.29	1.52
4	B	28	ARG	CG-CD	-7.59	1.29	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	361	VAL	CB-CG2	-7.59	1.27	1.52
3	A	852	MET	CA-CB	-7.59	1.39	1.52
3	A	576	THR	CA-CB	-7.59	1.42	1.53
4	B	1237	GLU	CG-CD	-7.59	1.33	1.52
5	C	141	ARG	CB-CG	-7.59	1.29	1.52
6	E	619	ILE	CG1-CD1	-7.58	1.22	1.51
6	E	620	GLN	CG-CD	-7.58	1.33	1.52
3	A	548	ASP	CA-CB	-7.58	1.40	1.53
4	B	34	ASP	CA-CB	-7.58	1.40	1.53
4	B	43	TYR	CD1-CE1	-7.58	1.16	1.38
3	A	805	ARG	CB-CG	-7.57	1.29	1.52
1	1	77	DA	C1'-N9	-7.57	1.31	1.46
4	B	1119	THR	CA-CB	-7.57	1.41	1.53
3	A	839	TYR	CB-CG	-7.57	1.35	1.51
5	D	41	ARG	CB-CG	-7.57	1.29	1.52
5	D	141	ARG	CB-CG	-7.56	1.29	1.52
4	B	16	LEU	CG-CD1	-7.55	1.27	1.52
3	A	868	ILE	CA-CB	-7.55	1.42	1.54
4	B	210	ARG	CA-C	-7.55	1.42	1.52
3	A	973	THR	CA-CB	-7.55	1.41	1.53
8	G	195	ALA	CA-C	-7.55	1.42	1.52
5	C	41	ARG	CB-CG	-7.55	1.29	1.52
6	E	541	VAL	CB-CG1	-7.55	1.27	1.52
6	E	475	VAL	CA-CB	-7.54	1.44	1.54
5	D	219	ASP	CA-CB	-7.54	1.44	1.53
3	A	838	VAL	CB-CG1	-7.53	1.27	1.52
4	B	1150	ASN	CB-CG	-7.53	1.33	1.52
4	B	168	THR	CA-CB	-7.52	1.42	1.53
3	A	395	GLU	CG-CD	-7.52	1.33	1.52
5	C	47	ASN	CB-CG	-7.52	1.33	1.52
3	A	981	LYS	CA-CB	-7.51	1.36	1.53
3	A	996	GLY	C-N	-7.51	1.16	1.33
3	A	847	GLN	CB-CG	-7.51	1.29	1.52
5	D	177	ASN	CA-C	-7.51	1.42	1.53
8	G	287	GLU	CG-CD	-7.50	1.33	1.52
6	E	615	TYR	CG-CD1	-7.50	1.23	1.39
3	A	50	LEU	C-N	-7.50	1.20	1.33
3	A	430	ILE	CG1-CD1	-7.50	1.22	1.51
3	A	978	TYR	CG-CD1	-7.50	1.23	1.39
5	D	47	ASN	CB-CG	-7.49	1.33	1.52
6	E	305	MET	CA-CB	-7.49	1.41	1.53
4	B	1240	ILE	CG1-CD1	-7.49	1.22	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	453	VAL	CA-CB	-7.49	1.42	1.54
6	E	301	ASN	CB-CG	-7.49	1.33	1.52
5	C	177	ASN	CA-C	-7.48	1.42	1.53
3	A	396	LEU	CG-CD1	-7.47	1.27	1.52
6	E	384	PHE	CA-CB	-7.47	1.42	1.53
6	E	142	PHE	CA-CB	-7.47	1.43	1.53
8	G	104	ALA	CA-C	-7.47	1.43	1.52
3	A	703	LEU	CG-CD1	-7.46	1.27	1.52
3	A	882	ILE	CA-C	-7.46	1.44	1.52
6	E	311	ASP	N-CA	-7.46	1.37	1.46
4	B	208	ILE	CB-CG2	-7.46	1.27	1.52
3	A	1041	LYS	CB-CG	-7.46	1.30	1.52
6	E	518	TYR	CD2-CE2	-7.45	1.16	1.38
8	G	196	GLU	CB-CG	-7.45	1.30	1.52
3	A	718	HIS	CA-CB	-7.45	1.40	1.53
6	E	279	VAL	CA-CB	-7.45	1.45	1.54
3	A	847	GLN	CA-CB	-7.44	1.38	1.53
3	A	1055	ILE	CG1-CD1	-7.44	1.22	1.51
4	B	195	TYR	CB-CG	-7.43	1.35	1.51
7	F	34	GLN	CA-CB	-7.43	1.40	1.53
6	E	117	TYR	CB-CG	-7.43	1.35	1.51
4	B	29	THR	CB-CG2	-7.43	1.28	1.52
3	A	396	LEU	CB-CG	-7.43	1.38	1.53
3	A	129	ILE	CB-CG1	-7.43	1.38	1.53
4	B	170	THR	CA-CB	-7.42	1.42	1.53
6	E	387	PHE	CB-CG	-7.42	1.33	1.50
6	E	283	ASN	CB-CG	-7.42	1.33	1.52
3	A	1049	ASN	CB-CG	-7.42	1.33	1.52
6	E	253	PRO	N-CA	-7.42	1.31	1.46
3	A	722	TYR	CB-CG	-7.41	1.35	1.51
3	A	980	LEU	CG-CD1	-7.41	1.28	1.52
3	A	814	VAL	CB-CG2	-7.41	1.28	1.52
7	F	37	ASN	CA-CB	-7.41	1.41	1.53
3	A	990	ILE	CG1-CD1	-7.40	1.22	1.51
3	A	704	ILE	CB-CG1	-7.40	1.38	1.53
3	A	868	ILE	CG1-CD1	-7.40	1.22	1.51
2	2	41	DC	C1'-N1	-7.40	1.27	1.49
4	B	31	VAL	CB-CG2	-7.39	1.28	1.52
4	B	1115	GLN	CB-CG	-7.39	1.30	1.52
6	E	464	PHE	CG-CD2	-7.39	1.23	1.38
1	1	93	DT	C1'-N1	-7.38	1.27	1.49
4	B	172	TYR	CB-CG	-7.38	1.35	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	209	ILE	CA-CB	-7.38	1.44	1.53
6	E	428	VAL	CA-CB	-7.38	1.44	1.55
3	A	267	TYR	CA-C	-7.38	1.45	1.53
3	A	688	VAL	CA-CB	-7.38	1.42	1.54
4	B	46	ARG	CA-C	-7.38	1.42	1.52
1	1	97	DT	C2-N3	-7.38	1.23	1.37
3	A	545	LEU	CG-CD1	-7.38	1.28	1.52
6	E	306	LEU	CA-C	-7.38	1.42	1.52
6	E	306	LEU	CG-CD1	-7.37	1.28	1.52
4	B	1237	GLU	CA-C	-7.37	1.45	1.52
3	A	572	PRO	CB-CG	-7.37	1.12	1.49
3	A	576	THR	N-CA	-7.37	1.38	1.46
3	A	1079	SER	N-CA	-7.37	1.37	1.46
5	C	81	ARG	CG-CD	-7.37	1.30	1.52
5	D	81	ARG	CG-CD	-7.37	1.30	1.52
3	A	261	PHE	CB-CG	-7.36	1.33	1.50
6	E	454	ILE	CG1-CD1	-7.36	1.23	1.51
6	E	488	ARG	CA-C	-7.35	1.42	1.52
3	A	376	GLU	CB-CG	-7.35	1.30	1.52
8	G	217	ALA	CA-C	-7.34	1.43	1.52
6	E	297	ILE	CA-CB	-7.34	1.42	1.54
1	1	60	DT	C1'-N1	-7.33	1.27	1.49
3	A	682	LEU	CG-CD2	-7.33	1.28	1.52
6	E	117	TYR	N-CA	-7.33	1.36	1.46
3	A	978	TYR	CE2-CZ	-7.33	1.20	1.38
3	A	815	VAL	CA-CB	-7.33	1.45	1.54
6	E	485	ALA	C-N	-7.33	1.23	1.33
4	B	1144	ILE	CB-CG1	-7.32	1.38	1.53
4	B	171	GLU	CB-CG	-7.32	1.30	1.52
3	A	714	TYR	CE1-CZ	-7.32	1.20	1.38
3	A	1053	ASN	CB-CG	-7.32	1.33	1.52
3	A	558	ASN	CA-CB	-7.32	1.41	1.53
6	E	362	ILE	CA-CB	-7.31	1.42	1.55
3	A	520	THR	C-N	-7.31	1.16	1.33
6	E	275	LEU	CG-CD1	-7.31	1.28	1.52
3	A	393	LEU	CB-CG	-7.30	1.38	1.53
1	1	98	DG	C5-C6	-7.30	1.27	1.42
6	E	105	TYR	CD2-CE2	-7.30	1.16	1.38
3	A	725	GLU	CA-CB	-7.30	1.41	1.53
3	A	691	MET	CA-CB	-7.30	1.42	1.53
5	D	177	ASN	CA-CB	-7.30	1.42	1.53
6	E	141	TYR	CB-CG	-7.29	1.35	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	901	CYS	CA-C	-7.29	1.43	1.52
4	B	209	ILE	CG1-CD1	-7.29	1.23	1.51
8	G	185	GLN	CA-CB	-7.29	1.42	1.53
3	A	401	ARG	CG-CD	-7.29	1.30	1.52
3	A	866	LEU	CA-CB	-7.29	1.42	1.53
3	A	960	TYR	CE2-CZ	-7.29	1.20	1.38
4	B	173	ILE	CB-CG2	-7.28	1.28	1.52
5	C	177	ASN	CA-CB	-7.28	1.42	1.53
6	E	298	ILE	CA-CB	-7.28	1.44	1.54
8	G	202	LYS	N-CA	-7.28	1.38	1.46
5	D	103	GLY	C-N	-7.28	1.16	1.33
3	A	881	ASP	CA-CB	-7.27	1.41	1.53
6	E	307	GLN	CA-C	-7.27	1.43	1.52
6	E	452	ARG	CG-CD	-7.27	1.30	1.52
1	1	87	DA	C1'-N9	-7.27	1.31	1.46
3	A	377	PHE	CB-CG	-7.27	1.33	1.50
6	E	277	ARG	CG-CD	-7.26	1.30	1.52
5	C	200	THR	CA-CB	-7.26	1.42	1.53
4	B	43	TYR	CE1-CZ	-7.26	1.20	1.38
3	A	802	ASN	CB-CG	-7.26	1.33	1.52
3	A	219	PHE	CB-CG	-7.25	1.33	1.50
4	B	1122	VAL	CB-CG2	-7.25	1.28	1.52
5	C	103	GLY	C-N	-7.25	1.16	1.33
5	D	200	THR	CA-CB	-7.25	1.42	1.53
6	E	518	TYR	CA-CB	-7.24	1.41	1.53
3	A	1032	TYR	CA-CB	-7.24	1.42	1.53
6	E	464	PHE	CG-CD1	-7.24	1.23	1.38
6	E	282	ARG	CA-C	-7.24	1.43	1.52
6	E	614	ILE	CB-CG1	-7.24	1.39	1.53
4	B	631	TRP	CE2-CZ2	-7.23	1.24	1.39
3	A	330	GLU	CG-CD	-7.23	1.33	1.52
1	1	88	DA	C1'-N9	-7.22	1.32	1.46
3	A	400	ARG	CG-CD	-7.22	1.30	1.52
4	B	26	THR	CA-CB	-7.21	1.44	1.53
6	E	418	VAL	CB-CG1	-7.21	1.28	1.52
3	A	333	GLN	CB-CG	-7.21	1.30	1.52
6	E	465	ASN	CB-CG	-7.20	1.34	1.52
3	A	868	ILE	CB-CG2	-7.19	1.28	1.52
6	E	619	ILE	CB-CG1	-7.19	1.39	1.53
3	A	957	ILE	CB-CG1	-7.19	1.39	1.53
5	D	181	GLU	CG-CD	-7.19	1.34	1.52
3	A	717	ILE	CA-CB	-7.18	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	981	LYS	CB-CG	-7.18	1.30	1.52
6	E	278	ARG	CG-CD	-7.18	1.30	1.52
6	E	473	MET	CB-CG	-7.18	1.30	1.52
3	A	902	LEU	CG-CD1	-7.18	1.28	1.52
3	A	1032	TYR	CG-CD1	-7.18	1.24	1.39
6	E	518	TYR	CG-CD2	-7.18	1.24	1.39
3	A	982	LEU	CG-CD1	-7.18	1.28	1.52
6	E	361	VAL	CA-C	-7.17	1.43	1.52
6	E	307	GLN	CB-CG	-7.17	1.30	1.52
6	E	280	ILE	CB-CG1	-7.17	1.39	1.53
6	E	140	VAL	CB-CG1	-7.16	1.28	1.52
4	B	33	ALA	CA-C	-7.16	1.42	1.52
3	A	722	TYR	CG-CD1	-7.16	1.24	1.39
6	E	489	LEU	CA-C	-7.16	1.43	1.52
7	F	32	THR	CB-CG2	-7.16	1.28	1.52
6	E	419	LEU	CG-CD2	-7.16	1.28	1.52
6	E	511	GLN	CA-C	-7.16	1.43	1.52
3	A	411	THR	CA-CB	-7.15	1.41	1.54
6	E	515	LEU	CB-CG	-7.15	1.39	1.53
3	A	377	PHE	CA-CB	-7.15	1.42	1.53
6	E	468	PHE	CG-CD2	-7.15	1.23	1.38
3	A	973	THR	CA-C	-7.15	1.43	1.53
4	B	1221	THR	CB-CG2	-7.15	1.28	1.52
3	A	399	LYS	CA-C	-7.14	1.45	1.53
4	B	33	ALA	C-N	-7.14	1.23	1.33
6	E	229	ARG	CB-CG	-7.14	1.31	1.52
6	E	139	ILE	CB-CG2	-7.14	1.28	1.52
6	E	140	VAL	CA-CB	-7.14	1.44	1.54
3	A	1003	GLN	CG-CD	-7.14	1.34	1.52
3	A	1055	ILE	CB-CG2	-7.13	1.29	1.52
4	B	264	ILE	CB-CG2	-7.13	1.29	1.52
4	B	653	TYR	CZ-OH	-7.12	1.23	1.38
4	B	1132	GLN	CA-C	-7.12	1.43	1.52
6	E	310	VAL	CB-CG1	-7.12	1.29	1.52
6	E	393	ILE	CB-CG2	-7.12	1.29	1.52
2	2	58	DA	C5-C6	-7.12	1.27	1.41
6	E	381	ILE	CB-CG2	-7.12	1.29	1.52
3	A	393	LEU	CG-CD2	-7.11	1.29	1.52
6	E	590	TYR	CB-CG	-7.11	1.35	1.51
3	A	855	ARG	CB-CG	-7.11	1.31	1.52
6	E	613	VAL	CB-CG2	-7.11	1.29	1.52
3	A	389	GLN	N-CA	-7.11	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	61	ARG	CG-CD	-7.11	1.31	1.52
3	A	848	VAL	CB-CG2	-7.11	1.29	1.52
6	E	387	PHE	CA-CB	-7.11	1.41	1.53
6	E	510	SER	CA-CB	-7.11	1.44	1.53
3	A	574	VAL	CB-CG2	-7.10	1.29	1.52
3	A	149	TYR	CB-CG	-7.10	1.36	1.51
3	A	1045	MET	CB-CG	-7.10	1.31	1.52
6	E	280	ILE	CB-CG2	-7.10	1.29	1.52
3	A	690	TYR	CG-CD2	-7.09	1.24	1.39
6	E	383	LEU	CG-CD1	-7.09	1.29	1.52
6	E	449	VAL	CB-CG2	-7.09	1.29	1.52
3	A	930	ARG	CB-CG	-7.09	1.31	1.52
3	A	905	TRP	CE3-CZ3	-7.09	1.17	1.38
3	A	1070	PHE	CG-CD2	-7.09	1.24	1.38
4	B	16	LEU	CA-C	-7.09	1.43	1.52
4	B	252	LYS	CD-CE	-7.09	1.31	1.52
6	E	423	ILE	CB-CG2	-7.09	1.29	1.52
3	A	866	LEU	CB-CG	-7.08	1.39	1.53
6	E	345	PHE	CB-CG	-7.08	1.34	1.50
3	A	805	ARG	CA-CB	-7.08	1.37	1.53
3	A	136	VAL	CB-CG1	-7.08	1.29	1.52
4	B	39	LEU	CB-CG	-7.08	1.39	1.53
4	B	261	ASN	C-N	-7.08	1.25	1.33
5	C	78	ILE	CA-C	-7.08	1.44	1.52
3	A	560	GLN	CA-C	-7.08	1.42	1.52
6	E	518	TYR	CD1-CE1	-7.08	1.17	1.38
1	1	99	DT	C1'-N1	-7.07	1.28	1.49
3	A	420	ARG	CB-CG	-7.07	1.31	1.52
6	E	276	TYR	CG-CD1	-7.07	1.24	1.39
5	D	120	VAL	CA-C	-7.07	1.44	1.52
4	B	208	ILE	CG1-CD1	-7.07	1.24	1.51
6	E	391	ARG	CB-CG	-7.07	1.31	1.52
7	F	33	VAL	CB-CG1	-7.07	1.29	1.52
4	B	49	VAL	CB-CG2	-7.06	1.29	1.52
6	E	507	ILE	C-N	-7.06	1.19	1.33
7	F	33	VAL	CB-CG2	-7.06	1.29	1.52
2	2	51	DT	C1'-N1	-7.05	1.28	1.49
3	A	128	PHE	CA-CB	-7.05	1.39	1.54
4	B	36	LEU	CG-CD1	-7.05	1.29	1.52
4	B	1130	GLN	CA-C	-7.05	1.42	1.52
3	A	868	ILE	CB-CG1	-7.05	1.39	1.53
4	B	463	LYS	CD-CE	-7.05	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	313	LEU	CG-CD1	-7.05	1.29	1.52
8	G	218	ILE	CG1-CD1	-7.04	1.24	1.51
4	B	220	ILE	CB-CG2	-7.04	1.29	1.52
6	E	229	ARG	CG-CD	-7.04	1.31	1.52
6	E	491	MET	CA-CB	-7.04	1.38	1.53
5	D	49	GLU	CB-CG	-7.04	1.31	1.52
8	G	186	GLU	CA-C	-7.04	1.43	1.52
3	A	1033	THR	CA-CB	-7.04	1.42	1.53
5	D	78	ILE	CA-C	-7.04	1.44	1.52
6	E	52	PRO	CA-C	-7.03	1.45	1.53
6	E	62	ILE	CA-C	-7.03	1.44	1.52
6	E	280	ILE	CA-CB	-7.03	1.46	1.54
6	E	319	ARG	CB-CG	-7.03	1.31	1.52
5	D	64	GLU	C-N	-7.02	1.23	1.33
7	F	31	ILE	CB-CG2	-7.02	1.29	1.52
5	C	49	GLU	CB-CG	-7.02	1.31	1.52
3	A	560	GLN	CG-CD	-7.02	1.34	1.52
5	C	64	GLU	C-N	-7.02	1.23	1.33
3	A	902	LEU	CG-CD2	-7.02	1.29	1.52
4	B	1225	ILE	CG1-CD1	-7.02	1.24	1.51
6	E	230	VAL	CB-CG2	-7.02	1.29	1.52
1	1	104	DT	N1-C2	-7.01	1.24	1.38
3	A	714	TYR	CG-CD1	-7.01	1.24	1.39
4	B	17	ILE	CB-CG2	-7.01	1.29	1.52
6	E	322	THR	CA-CB	-7.01	1.41	1.53
4	B	43	TYR	CA-CB	-7.01	1.42	1.53
3	A	690	TYR	CE1-CZ	-7.00	1.21	1.38
3	A	960	TYR	CD1-CE1	-7.00	1.17	1.38
4	B	1222	GLU	CG-CD	-7.00	1.34	1.52
4	B	211	GLU	CA-CB	-7.00	1.41	1.53
6	E	484	GLN	CB-CG	-7.00	1.31	1.52
3	A	836	VAL	CB-CG2	-7.00	1.29	1.52
6	E	302	GLU	CG-CD	-7.00	1.34	1.52
3	A	690	TYR	CE2-CZ	-6.99	1.21	1.38
4	B	171	GLU	CA-C	-6.99	1.43	1.52
6	E	276	TYR	CA-CB	-6.99	1.41	1.53
6	E	389	ILE	CB-CG2	-6.99	1.29	1.52
3	A	526	TYR	CB-CG	-6.99	1.36	1.51
3	A	737	THR	CA-CB	-6.98	1.42	1.53
6	E	256	LEU	CG-CD1	-6.98	1.29	1.52
3	A	330	GLU	CB-CG	-6.98	1.31	1.52
6	E	615	TYR	CD2-CE2	-6.98	1.17	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	552	ARG	CB-CG	-6.98	1.31	1.52
6	E	507	ILE	CA-CB	-6.97	1.46	1.53
1	1	98	DG	C1'-N9	-6.97	1.32	1.46
3	A	771	GLY	CA-C	-6.97	1.47	1.52
6	E	546	GLN	CA-C	-6.97	1.42	1.52
3	A	1035	GLN	CA-C	-6.97	1.44	1.52
3	A	675	THR	CB-CG2	-6.97	1.29	1.52
5	C	219	ASP	N-CA	-6.97	1.38	1.46
6	E	305	MET	CA-C	-6.97	1.44	1.52
1	1	98	DG	N9-C4	-6.96	1.24	1.38
4	B	39	LEU	CG-CD1	-6.96	1.29	1.52
5	D	41	ARG	CA-C	-6.96	1.42	1.52
6	E	298	ILE	CB-CG2	-6.96	1.29	1.52
4	B	199	ARG	CB-CG	-6.95	1.31	1.52
5	C	41	ARG	CA-C	-6.95	1.42	1.52
3	A	143	ARG	C-N	-6.95	1.14	1.33
3	A	1037	LEU	C-N	-6.95	1.23	1.33
4	B	45	THR	CB-CG2	-6.95	1.29	1.52
6	E	105	TYR	CE2-CZ	-6.95	1.21	1.38
3	A	1072	VAL	CB-CG1	-6.95	1.29	1.52
3	A	1032	TYR	CE2-CZ	-6.95	1.21	1.38
4	B	1120	PHE	CB-CG	-6.95	1.34	1.50
5	C	80	MET	CA-C	-6.94	1.43	1.52
3	A	557	SER	CA-CB	-6.94	1.42	1.53
6	E	481	LEU	CG-CD1	-6.94	1.29	1.52
4	B	223	ARG	CB-CG	-6.93	1.31	1.52
4	B	43	TYR	CE2-CZ	-6.93	1.21	1.38
3	A	561	ARG	CG-CD	-6.93	1.31	1.52
3	A	638	THR	CA-CB	-6.93	1.43	1.53
6	E	105	TYR	CA-CB	-6.92	1.42	1.53
3	A	76	GLU	C-N	-6.92	1.24	1.33
4	B	36	LEU	CB-CG	-6.92	1.39	1.53
3	A	705	SER	CA-CB	-6.92	1.43	1.53
3	A	402	LEU	CG-CD1	-6.92	1.29	1.52
3	A	757	ILE	N-CA	-6.92	1.38	1.46
3	A	960	TYR	CD2-CE2	-6.92	1.17	1.38
3	A	1042	SER	CA-CB	-6.91	1.41	1.53
4	B	23	HIS	CA-CB	-6.91	1.41	1.53
6	E	282	ARG	CB-CG	-6.91	1.31	1.52
3	A	905	TRP	CA-C	-6.91	1.43	1.52
5	D	144	ARG	CA-CB	-6.91	1.42	1.53
3	A	34	GLN	CA-CB	-6.90	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1072	VAL	CB-CG2	-6.90	1.29	1.52
3	A	840	VAL	CB-CG2	-6.90	1.29	1.52
3	A	842	GLN	CA-CB	-6.90	1.41	1.53
3	A	719	ILE	CB-CG1	-6.90	1.39	1.53
3	A	938	GLU	CG-CD	-6.90	1.34	1.52
3	A	980	LEU	CG-CD2	-6.90	1.29	1.52
3	A	1061	ILE	CG1-CD1	-6.89	1.24	1.51
4	B	1146	ARG	CA-C	-6.89	1.43	1.52
5	D	197	GLU	CG-CD	-6.89	1.34	1.52
3	A	386	PHE	CB-CG	-6.89	1.34	1.50
2	2	43	DG	C1'-N9	-6.89	1.32	1.46
6	E	146	VAL	CA-CB	-6.89	1.44	1.55
3	A	691	MET	CA-C	-6.88	1.44	1.52
6	E	382	GLU	C-N	-6.88	1.25	1.33
4	B	173	ILE	CG1-CD1	-6.88	1.25	1.51
3	A	436	PRO	C-N	-6.88	1.27	1.33
5	D	80	MET	CA-C	-6.88	1.43	1.52
6	E	125	ILE	CA-C	-6.88	1.44	1.52
1	1	87	DA	N9-C4	-6.88	1.24	1.38
5	D	199	TRP	CG-CD2	-6.88	1.31	1.43
5	C	197	GLU	CG-CD	-6.87	1.34	1.52
5	D	102	ASN	CB-CG	-6.87	1.34	1.52
4	B	198	ARG	CA-CB	-6.87	1.42	1.53
3	A	942	GLU	CA-C	-6.87	1.43	1.52
3	A	884	LEU	CG-CD1	-6.87	1.29	1.52
3	A	1078	GLN	CA-CB	-6.87	1.40	1.53
6	E	464	PHE	CE1-CZ	-6.87	1.18	1.38
8	G	111	LEU	N-CA	-6.87	1.38	1.46
3	A	326	ARG	CB-CG	-6.86	1.31	1.52
1	1	84	DA	C1'-N9	-6.86	1.32	1.46
4	B	323	ILE	CA-CB	-6.86	1.46	1.54
4	B	1140	HIS	CA-CB	-6.86	1.42	1.53
6	E	284	ASN	CA-CB	-6.86	1.42	1.53
3	A	905	TRP	CA-CB	-6.86	1.42	1.53
5	C	199	TRP	CG-CD2	-6.86	1.31	1.43
3	A	931	ILE	CB-CG1	-6.85	1.39	1.53
6	E	427	PRO	CB-CG	-6.85	1.15	1.49
6	E	499	SER	N-CA	-6.85	1.35	1.46
3	A	447	LEU	CA-CB	-6.85	1.42	1.53
6	E	614	ILE	C-N	-6.85	1.24	1.33
4	B	174	ILE	CB-CG2	-6.84	1.29	1.52
7	F	29	TYR	CZ-OH	-6.84	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	98	DG	C6-N1	-6.84	1.26	1.39
6	E	281	ASN	CA-CB	-6.84	1.42	1.53
3	A	396	LEU	CG-CD2	-6.84	1.29	1.52
3	A	387	MET	CA-C	-6.83	1.44	1.53
6	E	419	LEU	C-N	-6.83	1.22	1.33
4	B	41	PHE	CB-CG	-6.83	1.34	1.50
3	A	690	TYR	C-N	-6.83	1.19	1.33
3	A	902	LEU	CA-C	-6.83	1.43	1.52
4	B	39	LEU	CA-C	-6.83	1.44	1.52
4	B	1126	GLN	CG-CD	-6.83	1.34	1.52
6	E	304	ARG	CB-CG	-6.83	1.31	1.52
6	E	390	ASN	CB-CG	-6.83	1.34	1.52
3	A	334	ASN	CB-CG	-6.83	1.34	1.52
6	E	592	ARG	CB-CG	-6.82	1.31	1.52
6	E	375	LEU	CG-CD1	-6.82	1.30	1.52
3	A	867	PRO	CA-C	-6.82	1.44	1.52
8	G	184	ILE	CG1-CD1	-6.81	1.25	1.51
4	B	49	VAL	CB-CG1	-6.81	1.30	1.52
6	E	498	LEU	C-N	-6.81	1.21	1.33
6	E	419	LEU	CA-C	-6.81	1.43	1.52
3	A	328	VAL	CB-CG1	-6.81	1.30	1.52
6	E	545	PHE	CA-CB	-6.81	1.42	1.53
6	E	61	ARG	CB-CG	-6.81	1.32	1.52
4	B	1148	MET	CB-CG	-6.81	1.32	1.52
6	E	564	VAL	CB-CG1	-6.80	1.30	1.52
8	G	184	ILE	CB-CG2	-6.80	1.30	1.52
3	A	515	GLU	CB-CG	-6.80	1.32	1.52
3	A	1041	LYS	CA-C	-6.80	1.44	1.52
1	1	84	DA	N9-C4	-6.80	1.24	1.38
6	E	381	ILE	CA-CB	-6.80	1.46	1.54
3	A	1068	GLU	CA-C	-6.79	1.43	1.52
3	A	401	ARG	CA-C	-6.79	1.43	1.52
8	G	228	THR	CA-CB	-6.79	1.42	1.53
3	A	722	TYR	CG-CD2	-6.79	1.25	1.39
5	C	75	VAL	CB-CG1	-6.79	1.30	1.52
1	1	86	DG	N9-C4	-6.79	1.24	1.38
5	D	75	VAL	CB-CG1	-6.79	1.30	1.52
8	G	204	TYR	CE1-CZ	-6.79	1.22	1.38
3	A	838	VAL	CB-CG2	-6.79	1.30	1.52
6	E	52	PRO	CA-CB	-6.79	1.46	1.53
3	A	129	ILE	CA-CB	-6.78	1.43	1.55
6	E	147	VAL	CB-CG2	-6.78	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	897	GLN	CA-CB	-6.78	1.41	1.53
3	A	129	ILE	CG1-CD1	-6.78	1.25	1.51
3	A	432	PRO	N-CA	-6.78	1.39	1.47
3	A	1004	GLN	CB-CG	-6.78	1.32	1.52
4	B	238	ARG	CB-CG	-6.78	1.32	1.52
8	G	204	TYR	CD1-CE1	-6.78	1.18	1.38
3	A	40	TRP	CB-CG	-6.78	1.29	1.50
6	E	386	PRO	N-CA	-6.78	1.38	1.47
6	E	486	GLU	CB-CG	-6.78	1.32	1.52
6	E	615	TYR	CG-CD2	-6.78	1.25	1.39
5	D	197	GLU	CA-CB	-6.77	1.42	1.53
3	A	844	ARG	C-N	-6.77	1.24	1.33
3	A	323	ARG	CG-CD	-6.77	1.32	1.52
3	A	572	PRO	CA-CB	-6.77	1.44	1.53
6	E	389	ILE	CB-CG1	-6.77	1.40	1.53
4	B	1149	THR	CB-CG2	-6.76	1.30	1.52
6	E	491	MET	CB-CG	-6.76	1.32	1.52
1	1	63	DG	C1'-N9	-6.76	1.32	1.46
3	A	395	GLU	CA-CB	-6.76	1.42	1.53
6	E	448	LEU	CG-CD1	-6.76	1.30	1.52
6	E	489	LEU	CG-CD1	-6.76	1.30	1.52
3	A	34	GLN	N-CA	-6.76	1.37	1.45
3	A	562	GLN	CB-CG	-6.76	1.32	1.52
6	E	490	LEU	CG-CD1	-6.76	1.30	1.52
3	A	1033	THR	CB-CG2	-6.76	1.30	1.52
6	E	372	GLN	CB-CG	-6.75	1.32	1.52
6	E	105	TYR	CG-CD2	-6.75	1.25	1.39
6	E	384	PHE	C-N	-6.75	1.19	1.33
6	E	492	LEU	CG-CD2	-6.75	1.30	1.52
6	E	494	SER	C-N	-6.75	1.25	1.33
6	E	567	ASP	CB-CG	-6.75	1.35	1.52
8	G	214	ILE	CB-CG2	-6.75	1.30	1.52
3	A	839	TYR	CD1-CE1	-6.75	1.18	1.38
4	B	37	LYS	CB-CG	-6.74	1.32	1.52
5	C	197	GLU	CA-CB	-6.74	1.42	1.53
6	E	275	LEU	CG-CD2	-6.74	1.30	1.52
3	A	33	ILE	CB-CG1	-6.74	1.40	1.53
4	B	38	ASP	N-CA	-6.74	1.38	1.46
7	F	32	THR	CA-CB	-6.74	1.43	1.53
6	E	246	MET	CB-CG	-6.74	1.32	1.52
6	E	489	LEU	CG-CD2	-6.74	1.30	1.52
6	E	310	VAL	CA-CB	-6.73	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	33	DA	C1'-N9	-6.73	1.32	1.46
3	A	141	ILE	CG1-CD1	-6.73	1.25	1.51
3	A	374	ILE	CB-CG1	-6.73	1.40	1.53
3	A	686	ILE	CB-CG1	-6.72	1.40	1.53
3	A	1073	LEU	CB-CG	-6.72	1.40	1.53
4	B	1226	GLU	CB-CG	-6.72	1.32	1.52
7	F	60	ARG	CA-C	-6.72	1.44	1.52
3	A	33	ILE	CB-CG2	-6.72	1.30	1.52
5	D	38	ASN	CA-CB	-6.72	1.43	1.53
4	B	35	LYS	CA-C	-6.71	1.43	1.52
3	A	674	SER	CA-C	-6.71	1.42	1.53
3	A	836	VAL	CB-CG1	-6.71	1.30	1.52
4	B	1129	TYR	C-N	-6.71	1.23	1.33
5	D	78	ILE	CB-CG2	-6.71	1.30	1.52
5	C	78	ILE	CB-CG2	-6.71	1.30	1.52
6	E	391	ARG	CG-CD	-6.71	1.32	1.52
3	A	38	PHE	CA-C	-6.71	1.44	1.52
3	A	897	GLN	CG-CD	-6.70	1.35	1.52
6	E	478	PRO	CB-CG	-6.70	1.16	1.49
3	A	884	LEU	CG-CD2	-6.70	1.30	1.52
3	A	980	LEU	CA-CB	-6.70	1.42	1.53
6	E	429	MET	CB-CG	-6.70	1.32	1.52
3	A	718	HIS	CA-C	-6.70	1.44	1.52
4	B	1126	GLN	CA-C	-6.70	1.43	1.52
4	B	1244	LEU	C-O	-6.70	1.18	1.23
6	E	312	ALA	CA-C	-6.70	1.44	1.52
6	E	255	ASP	CA-CB	-6.69	1.41	1.53
4	B	220	ILE	CB-CG1	-6.69	1.40	1.53
3	A	454	ASN	CA-C	-6.69	1.44	1.52
5	C	38	ASN	CA-CB	-6.69	1.43	1.53
5	C	48	LEU	CG-CD1	-6.69	1.30	1.52
3	A	958	MET	CA-C	-6.69	1.44	1.53
3	A	938	GLU	CB-CG	-6.69	1.32	1.52
6	E	495	ASN	CA-C	-6.69	1.46	1.53
6	E	590	TYR	C-N	-6.69	1.23	1.33
4	B	37	LYS	CA-C	-6.68	1.43	1.52
5	C	198	VAL	CB-CG2	-6.68	1.30	1.52
5	D	198	VAL	CB-CG2	-6.68	1.30	1.52
5	D	48	LEU	CG-CD1	-6.68	1.30	1.52
8	G	286	LEU	C-N	-6.68	1.22	1.34
2	2	49	DT	C1'-N1	-6.68	1.29	1.49
3	A	135	ARG	CG-CD	-6.68	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	35	VAL	CA-CB	-6.68	1.46	1.54
4	B	1241	ILE	CG1-CD1	-6.68	1.25	1.51
6	E	420	GLU	CB-CG	-6.67	1.32	1.52
1	1	60	DT	C3'-O3'	-6.67	1.22	1.42
1	1	85	DG	C5-C6	-6.67	1.28	1.42
3	A	397	THR	N-CA	-6.67	1.37	1.46
6	E	31	PRO	C-N	-6.67	1.25	1.33
3	A	401	ARG	CA-CB	-6.67	1.43	1.53
3	A	1037	LEU	CA-C	-6.67	1.43	1.52
6	E	298	ILE	CB-CG1	-6.67	1.40	1.53
3	A	1074	MET	CA-C	-6.67	1.44	1.52
3	A	1040	VAL	CB-CG2	-6.66	1.30	1.52
3	A	1034	LEU	CA-CB	-6.66	1.43	1.53
3	A	226	GLU	CD-OE2	-6.66	1.12	1.25
3	A	1052	LEU	CG-CD2	-6.66	1.30	1.52
3	A	1071	LYS	CA-CB	-6.65	1.42	1.53
4	B	201	VAL	CA-CB	-6.65	1.47	1.54
6	E	348	ASN	C-N	-6.65	1.15	1.32
3	A	703	LEU	CB-CG	-6.65	1.40	1.53
3	A	1075	ARG	CG-CD	-6.65	1.32	1.52
3	A	680	LEU	CG-CD2	-6.65	1.30	1.52
6	E	482	GLU	CG-CD	-6.65	1.35	1.52
3	A	324	ARG	CB-CG	-6.64	1.32	1.52
3	A	978	TYR	CD1-CE1	-6.64	1.18	1.38
5	C	141	ARG	CA-CB	-6.64	1.43	1.53
3	A	563	ALA	CA-C	-6.64	1.44	1.52
3	A	509	PRO	CA-C	-6.64	1.45	1.53
3	A	392	PRO	CB-CG	-6.63	1.16	1.49
5	D	141	ARG	CA-CB	-6.63	1.43	1.53
3	A	29	ASP	C-N	-6.63	1.24	1.33
4	B	1144	ILE	CB-CG2	-6.63	1.30	1.52
6	E	393	ILE	CA-CB	-6.63	1.44	1.54
3	A	704	ILE	CA-CB	-6.63	1.47	1.55
3	A	940	ARG	CB-CG	-6.63	1.32	1.52
2	2	29	DA	C5-C6	-6.62	1.28	1.41
6	E	106	ILE	CG1-CD1	-6.62	1.25	1.51
4	B	19	TRP	CE2-CZ2	-6.62	1.25	1.39
4	B	46	ARG	C-N	-6.62	1.25	1.33
5	C	77	GLU	CB-CG	-6.62	1.32	1.52
6	E	308	GLU	CA-CB	-6.62	1.41	1.53
6	E	619	ILE	CA-C	-6.62	1.44	1.52
3	A	31	ILE	CG1-CD1	-6.61	1.25	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	806	VAL	C-N	-6.61	1.18	1.33
4	B	1225	ILE	CB-CG1	-6.61	1.40	1.53
3	A	899	PHE	CG-CD1	-6.61	1.25	1.38
4	B	325	GLU	CA-CB	-6.61	1.43	1.53
3	A	1050	GLU	CB-CG	-6.61	1.32	1.52
6	E	259	MET	CG-SD	-6.61	1.64	1.80
3	A	555	MET	CB-CG	-6.60	1.32	1.52
6	E	505	PRO	CB-CG	-6.60	1.16	1.49
3	A	883	VAL	C-N	-6.60	1.24	1.33
4	B	47	ALA	CA-C	-6.60	1.44	1.52
7	F	36	ALA	CA-CB	-6.60	1.45	1.53
1	1	100	DA	C5-C4	-6.60	1.25	1.38
3	A	960	TYR	CG-CD2	-6.60	1.25	1.39
4	B	18	SER	CA-CB	-6.60	1.43	1.53
3	A	141	ILE	CB-CG1	-6.59	1.40	1.53
6	E	375	LEU	CG-CD2	-6.59	1.30	1.52
6	E	498	LEU	CG-CD2	-6.59	1.30	1.52
6	E	612	ARG	CA-C	-6.59	1.43	1.52
3	A	982	LEU	CG-CD2	-6.59	1.30	1.52
6	E	303	LYS	CB-CG	-6.59	1.32	1.52
6	E	106	ILE	CB-CG1	-6.59	1.40	1.53
6	E	195	ARG	CA-CB	-6.59	1.42	1.53
6	E	545	PHE	CD2-CE2	-6.58	1.18	1.38
7	F	31	ILE	CA-C	-6.58	1.44	1.52
3	A	551	ASN	CB-CG	-6.58	1.35	1.52
3	A	1043	ASP	CA-CB	-6.58	1.37	1.54
3	A	378	PHE	CG-CD1	-6.57	1.25	1.38
6	E	262	LEU	CA-CB	-6.57	1.42	1.53
3	A	772	LYS	CA-CB	-6.57	1.41	1.54
5	C	179	SER	CA-CB	-6.57	1.44	1.53
6	E	426	HIS	N-CA	-6.57	1.39	1.46
6	E	455	GLN	CG-CD	-6.57	1.35	1.52
4	B	237	THR	CA-CB	-6.57	1.43	1.53
5	D	77	GLU	CB-CG	-6.57	1.32	1.52
4	B	1208	ILE	CB-CG1	-6.57	1.40	1.53
6	E	306	LEU	CB-CG	-6.57	1.40	1.53
6	E	374	GLY	C-N	-6.57	1.20	1.33
4	B	1141	ILE	CB-CG1	-6.57	1.40	1.53
4	B	41	PHE	CG-CD1	-6.56	1.25	1.38
6	E	195	ARG	CB-CG	-6.56	1.32	1.52
2	2	29	DA	C6-N1	-6.56	1.22	1.35
3	A	1005	PRO	CB-CG	-6.56	1.16	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	49	THR	CA-C	-6.56	1.44	1.53
6	E	62	ILE	CA-CB	-6.56	1.47	1.54
6	E	513	MET	CA-CB	-6.56	1.42	1.53
8	G	287	GLU	CB-CG	-6.56	1.32	1.52
3	A	1038	LEU	CG-CD1	-6.56	1.30	1.52
5	D	179	SER	CA-CB	-6.56	1.44	1.53
1	1	95	DT	N1-C2	-6.55	1.25	1.38
6	E	464	PHE	CD1-CE1	-6.55	1.19	1.38
4	B	31	VAL	CA-CB	-6.55	1.43	1.54
6	E	376	PRO	N-CD	-6.55	1.38	1.47
6	E	422	VAL	CB-CG1	-6.55	1.30	1.52
3	A	714	TYR	CE2-CZ	-6.55	1.22	1.38
3	A	1034	LEU	CG-CD1	-6.54	1.30	1.52
3	A	956	LYS	CA-CB	-6.54	1.42	1.53
6	E	564	VAL	CA-CB	-6.54	1.45	1.54
3	A	364	LEU	CG-CD2	-6.54	1.30	1.52
3	A	434	GLU	CG-CD	-6.54	1.35	1.52
6	E	383	LEU	N-CA	-6.54	1.38	1.46
1	1	88	DA	N9-C4	-6.54	1.25	1.38
3	A	34	GLN	CG-CD	-6.54	1.35	1.52
3	A	144	SER	CA-CB	-6.53	1.45	1.53
3	A	978	TYR	CE1-CZ	-6.53	1.22	1.38
6	E	277	ARG	CA-C	-6.53	1.43	1.52
3	A	963	ARG	CB-CG	-6.53	1.32	1.52
6	E	252	ILE	CA-C	-6.53	1.46	1.53
4	B	32	MET	CB-CG	-6.53	1.32	1.52
7	F	30	ARG	CB-CG	-6.53	1.32	1.52
4	B	43	TYR	CG-CD2	-6.53	1.25	1.39
8	G	89	ILE	CB-CG2	-6.53	1.31	1.52
4	B	39	LEU	CG-CD2	-6.52	1.31	1.52
6	E	465	ASN	CA-CB	-6.52	1.44	1.53
3	A	724	ILE	CG1-CD1	-6.52	1.26	1.51
6	E	233	ASN	CA-CB	-6.52	1.43	1.53
6	E	298	ILE	CG1-CD1	-6.52	1.26	1.51
5	D	199	TRP	CE2-CZ2	-6.51	1.26	1.39
6	E	507	ILE	CB-CG1	-6.51	1.40	1.53
3	A	302	ASP	CA-C	-6.51	1.44	1.52
3	A	166	ILE	C-N	-6.51	1.18	1.33
3	A	141	ILE	CB-CG2	-6.51	1.31	1.52
4	B	43	TYR	CD2-CE2	-6.51	1.19	1.38
6	E	468	PHE	CB-CG	-6.51	1.35	1.50
6	E	491	MET	C-N	-6.50	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	685	ASN	C-N	-6.50	1.25	1.33
6	E	232	ASP	C-N	-6.50	1.26	1.33
4	B	279	GLU	CB-CG	-6.50	1.32	1.52
4	B	1240	ILE	CB-CG1	-6.50	1.40	1.53
3	A	676	GLU	CG-CD	-6.50	1.35	1.52
5	C	199	TRP	CE2-CZ2	-6.50	1.26	1.39
5	C	219	ASP	CA-C	-6.50	1.44	1.52
3	A	690	TYR	CG-CD1	-6.49	1.25	1.39
6	E	307	GLN	CA-CB	-6.49	1.42	1.53
3	A	998	TYR	CA-CB	-6.49	1.42	1.53
2	2	66	DA	C2-N3	-6.49	1.20	1.33
3	A	1048	ARG	CB-CG	-6.49	1.32	1.52
6	E	619	ILE	CB-CG2	-6.49	1.31	1.52
2	2	36	DT	N1-C2	-6.49	1.25	1.38
3	A	43	GLU	CD-OE1	-6.49	1.13	1.25
6	E	376	PRO	N-CA	-6.49	1.39	1.47
3	A	33	ILE	CA-C	-6.48	1.44	1.52
3	A	814	VAL	C-N	-6.48	1.25	1.33
3	A	1000	LEU	CA-C	-6.48	1.44	1.52
4	B	19	TRP	CA-C	-6.48	1.44	1.52
3	A	138	VAL	CB-CG2	-6.48	1.31	1.52
1	1	106	DG	N9-C4	-6.48	1.25	1.38
6	E	381	ILE	CB-CG1	-6.48	1.40	1.53
3	A	599	VAL	CB-CG2	-6.47	1.31	1.52
8	G	219	THR	CA-C	-6.47	1.44	1.52
6	E	105	TYR	CG-CD1	-6.47	1.25	1.39
3	A	341	ASN	CB-CG	-6.47	1.35	1.52
3	A	598	VAL	CB-CG1	-6.46	1.31	1.52
3	A	1051	ALA	CA-C	-6.46	1.44	1.52
6	E	518	TYR	CG-CD1	-6.46	1.25	1.39
1	1	92	DT	C1'-N1	-6.46	1.30	1.49
6	E	508	THR	CB-CG2	-6.46	1.31	1.52
3	A	937	GLN	C-N	-6.46	1.24	1.33
4	B	41	PHE	CA-CB	-6.46	1.43	1.53
6	E	254	PRO	CA-C	-6.46	1.43	1.52
6	E	314	ILE	CB-CG1	-6.46	1.40	1.53
4	B	19	TRP	CD2-CE2	-6.46	1.30	1.41
4	B	175	SER	CA-CB	-6.45	1.42	1.53
5	D	37	GLY	C-N	-6.45	1.26	1.33
1	1	62	DT	N1-C6	-6.45	1.25	1.38
5	C	37	GLY	C-N	-6.45	1.26	1.33
4	B	1208	ILE	CA-C	-6.45	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	46	ARG	CB-CG	-6.45	1.33	1.52
4	B	1151	LYS	CA-CB	-6.45	1.41	1.53
6	E	138	GLN	CB-CG	-6.44	1.33	1.52
4	B	243	VAL	CB-CG1	-6.44	1.31	1.52
6	E	284	ASN	CA-C	-6.44	1.44	1.52
6	E	348	ASN	CA-C	-6.44	1.42	1.52
6	E	541	VAL	CB-CG2	-6.44	1.31	1.52
4	B	1011	LEU	C-N	-6.44	1.18	1.33
8	G	185	GLN	CA-C	-6.44	1.44	1.52
4	B	196	LEU	CG-CD1	-6.44	1.31	1.52
4	B	197	THR	CA-C	-6.44	1.43	1.52
6	E	348	ASN	CB-CG	-6.44	1.35	1.52
3	A	385	GLN	CA-CB	-6.44	1.42	1.53
4	B	1240	ILE	CB-CG2	-6.44	1.31	1.52
6	E	614	ILE	CB-CG2	-6.44	1.31	1.52
4	B	169	VAL	CB-CG1	-6.43	1.31	1.52
6	E	468	PHE	CE1-CZ	-6.43	1.19	1.38
5	D	178	TYR	CB-CG	-6.43	1.37	1.51
3	A	815	VAL	CB-CG1	-6.43	1.31	1.52
4	B	1244	LEU	CB-CG	-6.43	1.40	1.53
3	A	714	TYR	CA-C	-6.43	1.46	1.53
3	A	41	PHE	CA-C	-6.42	1.44	1.52
6	E	333	SER	CA-C	-6.42	1.44	1.53
3	A	324	ARG	CA-CB	-6.42	1.41	1.54
3	A	398	HIS	CA-C	-6.42	1.44	1.52
4	B	22	THR	CB-CG2	-6.42	1.31	1.52
5	C	178	TYR	CB-CG	-6.42	1.37	1.51
6	E	256	LEU	C-N	-6.42	1.20	1.33
3	A	977	ALA	CA-CB	-6.42	1.40	1.53
3	A	721	LYS	CA-C	-6.41	1.44	1.52
6	E	228	LEU	CA-C	-6.41	1.44	1.52
6	E	296	GLU	CB-CG	-6.41	1.33	1.52
3	A	545	LEU	CG-CD2	-6.41	1.31	1.52
3	A	41	PHE	CB-CG	-6.41	1.35	1.50
3	A	573	LEU	CG-CD2	-6.41	1.31	1.52
6	E	471	ASP	C-N	-6.40	1.25	1.33
3	A	37	SER	C-N	-6.40	1.25	1.33
4	B	1143	VAL	C-N	-6.40	1.25	1.33
3	A	905	TRP	CD2-CE3	-6.40	1.30	1.40
6	E	484	GLN	CA-CB	-6.40	1.43	1.53
3	A	738	ARG	CB-CG	-6.39	1.33	1.52
4	B	17	ILE	CB-CG1	-6.39	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	506	ILE	CG1-CD1	-6.39	1.26	1.51
3	A	266	ARG	CA-CB	-6.39	1.44	1.53
3	A	397	THR	CB-CG2	-6.39	1.31	1.52
3	A	977	ALA	CA-C	-6.39	1.45	1.52
6	E	488	ARG	C-N	-6.39	1.25	1.34
3	A	397	THR	CA-C	-6.38	1.44	1.52
3	A	134	GLU	CB-CG	-6.38	1.33	1.52
3	A	302	ASP	CB-CG	-6.38	1.36	1.52
1	1	95	DT	C2-N3	-6.38	1.25	1.37
3	A	41	PHE	CG-CD1	-6.38	1.25	1.38
5	C	210	LEU	CG-CD2	-6.38	1.31	1.52
6	E	307	GLN	C-N	-6.38	1.24	1.33
5	D	210	LEU	CG-CD2	-6.38	1.31	1.52
6	E	453	ALA	CA-C	-6.37	1.44	1.52
4	B	1237	GLU	CA-CB	-6.37	1.44	1.53
5	C	170	PHE	N-CA	-6.37	1.38	1.47
1	1	94	DT	C1'-N1	-6.37	1.30	1.49
6	E	277	ARG	C-N	-6.37	1.26	1.33
8	G	184	ILE	CA-CB	-6.37	1.46	1.54
3	A	115	PHE	CD2-CE2	-6.37	1.19	1.38
3	A	376	GLU	CA-CB	-6.37	1.44	1.53
3	A	936	LEU	CG-CD1	-6.37	1.31	1.52
1	1	102	DA	C1'-N9	-6.37	1.33	1.46
3	A	735	GLU	CB-CG	-6.36	1.33	1.52
6	E	257	ARG	CB-CG	-6.36	1.33	1.52
3	A	1069	SER	CA-CB	-6.36	1.41	1.53
9	Y	97	PRO	C-N	-6.36	1.25	1.33
4	B	28	ARG	CA-C	-6.36	1.45	1.52
5	D	43	VAL	CB-CG2	-6.36	1.31	1.52
5	C	43	VAL	CB-CG2	-6.36	1.31	1.52
6	E	614	ILE	CG1-CD1	-6.36	1.26	1.51
3	A	1075	ARG	CA-CB	-6.35	1.43	1.53
3	A	396	LEU	C-N	-6.35	1.24	1.33
3	A	591	VAL	CB-CG1	-6.35	1.31	1.52
5	D	170	PHE	N-CA	-6.35	1.38	1.47
3	A	590	ILE	CB-CG2	-6.35	1.31	1.52
6	E	519	TYR	CA-CB	-6.35	1.42	1.53
3	A	336	VAL	CB-CG2	-6.34	1.31	1.52
5	C	196	LEU	CG-CD1	-6.34	1.31	1.52
6	E	308	GLU	CA-C	-6.34	1.43	1.52
9	X	97	PRO	C-N	-6.34	1.25	1.33
3	A	271	ARG	CB-CG	-6.34	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	46	ARG	CA-CB	-6.34	1.41	1.53
5	D	40	LEU	CG-CD1	-6.34	1.31	1.52
3	A	806	VAL	CB-CG1	-6.34	1.31	1.52
3	A	1032	TYR	CD1-CE1	-6.34	1.19	1.38
5	D	170	PHE	CA-C	-6.34	1.46	1.53
1	1	83	DC	C1'-N1	-6.34	1.30	1.49
5	C	40	LEU	CG-CD1	-6.34	1.31	1.52
1	1	62	DT	C5-C6	-6.33	1.21	1.34
3	A	130	ILE	CG1-CD1	-6.33	1.27	1.51
3	A	422	ILE	N-CA	-6.33	1.38	1.46
3	A	447	LEU	CB-CG	-6.33	1.40	1.53
3	A	930	ARG	CA-CB	-6.33	1.43	1.53
4	B	1143	VAL	CB-CG1	-6.33	1.31	1.52
6	E	381	ILE	CG1-CD1	-6.33	1.27	1.51
3	A	847	GLN	CG-CD	-6.33	1.36	1.52
4	B	23	HIS	CA-C	-6.33	1.43	1.52
6	E	452	ARG	C-N	-6.33	1.24	1.33
5	D	196	LEU	CG-CD1	-6.33	1.31	1.52
6	E	454	ILE	CA-CB	-6.33	1.46	1.54
6	E	464	PHE	CD2-CE2	-6.33	1.19	1.38
4	B	20	ALA	CA-C	-6.32	1.44	1.52
6	E	521	THR	CA-CB	-6.32	1.44	1.53
6	E	613	VAL	CA-CB	-6.32	1.45	1.54
3	A	140	GLN	CB-CG	-6.32	1.33	1.52
3	A	814	VAL	CB-CG1	-6.32	1.31	1.52
4	B	1146	ARG	CA-CB	-6.32	1.43	1.53
4	B	1149	THR	C-N	-6.32	1.24	1.33
6	E	613	VAL	CA-C	-6.32	1.43	1.52
4	B	671	VAL	CA-C	-6.32	1.45	1.52
3	A	1075	ARG	CB-CG	-6.32	1.33	1.52
5	D	195	LEU	CA-C	-6.32	1.44	1.53
6	E	521	THR	CB-CG2	-6.32	1.31	1.52
6	E	105	TYR	CA-C	-6.31	1.45	1.52
6	E	197	LEU	CG-CD1	-6.31	1.31	1.52
6	E	347	GLN	CB-CG	-6.31	1.33	1.52
8	G	217	ALA	C-N	-6.31	1.26	1.33
1	1	100	DA	N1-C2	-6.31	1.21	1.34
5	C	170	PHE	CA-C	-6.31	1.46	1.53
5	D	176	VAL	CB-CG2	-6.31	1.31	1.52
5	C	207	GLN	CB-CG	-6.31	1.33	1.52
4	B	279	GLU	CA-C	-6.31	1.44	1.52
3	A	609	ARG	CG-CD	-6.30	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	195	LEU	CA-C	-6.30	1.44	1.53
9	Y	120	MET	CA-CB	6.30	1.63	1.53
4	B	323	ILE	CB-CG1	-6.30	1.40	1.53
4	B	326	PRO	CA-C	-6.30	1.43	1.52
6	E	250	PRO	CB-CG	-6.30	1.18	1.49
3	A	680	LEU	CG-CD1	-6.30	1.31	1.52
3	A	1038	LEU	CA-C	-6.30	1.44	1.52
3	A	274	ARG	CA-C	-6.29	1.44	1.52
4	B	2	ILE	CB-CG2	-6.29	1.31	1.52
6	E	429	MET	CA-CB	-6.29	1.39	1.53
3	A	147	VAL	CA-CB	-6.29	1.46	1.55
6	E	421	GLU	CB-CG	-6.29	1.33	1.52
4	B	222	VAL	CB-CG1	-6.29	1.31	1.52
5	C	176	VAL	CB-CG2	-6.29	1.31	1.52
3	A	395	GLU	CA-C	-6.28	1.44	1.52
3	A	581	GLN	CB-CG	-6.28	1.33	1.52
3	A	883	VAL	N-CA	-6.28	1.38	1.46
4	B	3	PHE	CG-CD1	-6.28	1.25	1.38
4	B	282	VAL	CB-CG1	-6.28	1.31	1.52
2	2	47	DT	C1'-N1	-6.28	1.30	1.49
3	A	41	PHE	CD2-CE2	-6.28	1.19	1.38
3	A	385	GLN	CB-CG	-6.28	1.33	1.52
3	A	1074	MET	CB-CG	-6.28	1.33	1.52
4	B	200	LEU	CG-CD2	-6.28	1.31	1.52
4	B	1144	ILE	CA-CB	-6.28	1.46	1.54
7	F	22	ILE	CA-C	-6.28	1.44	1.53
3	A	691	MET	CG-SD	-6.27	1.65	1.80
4	B	264	ILE	CB-CG1	-6.27	1.41	1.53
3	A	51	ASN	N-CA	-6.27	1.37	1.46
3	A	844	ARG	CA-CB	-6.27	1.42	1.53
4	B	3	PHE	CD2-CE2	-6.27	1.19	1.38
3	A	757	ILE	CA-CB	-6.27	1.44	1.54
5	D	207	GLN	CB-CG	-6.27	1.33	1.52
4	B	29	THR	CA-C	-6.27	1.44	1.52
5	D	78	ILE	CG1-CD1	-6.27	1.27	1.51
6	E	308	GLU	C-N	-6.27	1.25	1.33
6	E	612	ARG	CA-CB	-6.27	1.42	1.53
3	A	376	GLU	C-N	-6.27	1.26	1.33
8	G	184	ILE	C-N	-6.27	1.25	1.33
1	1	62	DT	N1-C2	-6.27	1.25	1.38
3	A	449	THR	CA-CB	-6.27	1.43	1.53
3	A	682	LEU	CA-C	-6.27	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	F	36	ALA	N-CA	-6.26	1.40	1.46
5	C	78	ILE	CG1-CD1	-6.26	1.27	1.51
6	E	253	PRO	CG-CD	-6.26	1.29	1.50
1	1	102	DA	N9-C4	-6.26	1.25	1.38
6	E	117	TYR	CA-CB	-6.26	1.44	1.53
3	A	685	ASN	CG-OD1	-6.26	1.11	1.23
3	A	1002	THR	CA-CB	-6.26	1.40	1.53
6	E	145	TYR	CA-CB	-6.25	1.42	1.53
6	E	305	MET	CG-SD	-6.25	1.65	1.80
3	A	960	TYR	CE1-CZ	-6.25	1.23	1.38
6	E	117	TYR	CD2-CE2	-6.25	1.19	1.38
4	B	1143	VAL	CA-C	-6.25	1.45	1.52
3	A	495	ILE	CB-CG2	-6.25	1.31	1.52
4	B	282	VAL	CB-CG2	-6.25	1.31	1.52
4	B	1130	GLN	CA-CB	-6.25	1.43	1.53
4	B	1221	THR	CA-C	-6.25	1.44	1.52
5	D	178	TYR	CA-C	-6.25	1.45	1.52
6	E	449	VAL	CA-CB	-6.25	1.51	1.55
3	A	884	LEU	CB-CG	-6.25	1.41	1.53
6	E	483	SER	CA-CB	-6.25	1.42	1.53
6	E	253	PRO	CB-CG	-6.25	1.18	1.49
6	E	617	LYS	CB-CG	-6.25	1.33	1.52
3	A	447	LEU	CG-CD2	-6.24	1.31	1.52
3	A	581	GLN	CG-CD	-6.24	1.36	1.52
5	D	45	LEU	N-CA	-6.24	1.37	1.46
4	B	21	PHE	CG-CD1	-6.24	1.25	1.38
4	B	200	LEU	CB-CG	-6.24	1.41	1.53
3	A	418	ALA	CA-C	-6.24	1.44	1.52
5	C	178	TYR	CA-C	-6.24	1.45	1.52
3	A	1068	GLU	CA-CB	-6.23	1.43	1.53
6	E	376	PRO	CG-CD	-6.23	1.29	1.50
6	E	520	LEU	CA-C	-6.23	1.44	1.52
3	A	982	LEU	CB-CG	-6.23	1.41	1.53
4	B	3	PHE	CB-CG	-6.23	1.36	1.50
7	F	29	TYR	CD1-CE1	-6.23	1.20	1.38
1	1	90	DA	C5-C6	-6.23	1.28	1.41
1	1	101	DT	C1'-N1	-6.23	1.30	1.49
6	E	454	ILE	CB-CG1	-6.23	1.41	1.53
6	E	421	GLU	CA-CB	-6.23	1.43	1.53
3	A	386	PHE	CA-C	-6.22	1.44	1.52
3	A	865	ILE	CB-CG1	-6.22	1.41	1.53
6	E	613	VAL	N-CA	-6.22	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	594	THR	CA-CB	-6.22	1.43	1.53
5	D	76	LEU	C-N	-6.22	1.25	1.34
3	A	979	MET	CA-C	-6.22	1.44	1.53
6	E	231	ILE	CA-C	-6.22	1.44	1.52
6	E	138	GLN	C-N	-6.22	1.25	1.33
6	E	250	PRO	CA-CB	-6.22	1.45	1.53
8	G	201	GLU	CA-C	-6.22	1.44	1.52
3	A	605	GLU	CA-C	-6.21	1.45	1.52
5	C	76	LEU	C-N	-6.21	1.25	1.34
6	E	509	PRO	N-CA	-6.21	1.39	1.47
4	B	41	PHE	CE2-CZ	-6.21	1.20	1.38
4	B	237	THR	CB-CG2	-6.21	1.32	1.52
6	E	250	PRO	N-CD	-6.21	1.39	1.47
1	1	95	DT	C3'-O3'	-6.21	1.24	1.42
6	E	297	ILE	CG1-CD1	-6.21	1.27	1.51
5	C	195	LEU	C-N	-6.21	1.24	1.33
3	A	561	ARG	C-N	-6.21	1.24	1.33
5	C	221	PHE	CB-CG	-6.21	1.36	1.50
3	A	330	GLU	CA-C	-6.20	1.44	1.52
3	A	545	LEU	CB-CG	-6.20	1.41	1.53
4	B	242	ARG	CG-CD	-6.20	1.33	1.52
4	B	323	ILE	CA-C	-6.20	1.45	1.52
1	1	99	DT	C5-C6	-6.20	1.21	1.34
6	E	360	SER	CA-CB	-6.20	1.45	1.53
3	A	813	ARG	CB-CG	-6.20	1.33	1.52
4	B	1119	THR	CA-C	-6.20	1.44	1.52
3	A	38	PHE	CA-CB	-6.20	1.43	1.53
3	A	684	GLN	CA-CB	-6.20	1.43	1.53
5	C	45	LEU	N-CA	-6.20	1.37	1.46
4	B	1130	GLN	CB-CG	-6.20	1.33	1.52
6	E	508	THR	CA-C	-6.20	1.45	1.52
5	D	78	ILE	CB-CG1	-6.19	1.41	1.53
6	E	519	TYR	CA-C	-6.19	1.44	1.52
5	C	78	ILE	CB-CG1	-6.19	1.41	1.53
6	E	230	VAL	CB-CG1	-6.19	1.32	1.52
7	F	28	ARG	N-CA	-6.19	1.38	1.46
6	E	480	SER	C-N	-6.19	1.24	1.33
6	E	620	GLN	C-N	-6.19	1.25	1.33
6	E	498	LEU	CB-CG	-6.19	1.41	1.53
3	A	1055	ILE	CB-CG1	-6.18	1.41	1.53
5	D	195	LEU	C-N	-6.18	1.25	1.33
3	A	167	PRO	CA-C	-6.18	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	208	ILE	CB-CG1	-6.18	1.41	1.53
6	E	502	THR	CA-CB	-6.18	1.43	1.53
4	B	16	LEU	CG-CD2	-6.18	1.32	1.52
6	E	485	ALA	CA-C	-6.18	1.44	1.52
6	E	314	ILE	CA-C	-6.18	1.45	1.52
6	E	499	SER	CA-C	-6.18	1.45	1.52
3	A	963	ARG	CG-CD	-6.17	1.33	1.52
3	A	333	GLN	C-N	-6.17	1.25	1.33
3	A	1037	LEU	CB-CG	-6.17	1.41	1.53
4	B	197	THR	CB-CG2	-6.17	1.32	1.52
3	A	1086	VAL	CA-CB	-6.17	1.46	1.54
3	A	382	GLN	CB-CG	-6.17	1.33	1.52
4	B	37	LYS	C-N	-6.17	1.25	1.33
6	E	389	ILE	CG1-CD1	-6.17	1.27	1.51
5	C	138	MET	CG-SD	-6.16	1.65	1.80
6	E	506	ILE	CB-CG1	-6.16	1.41	1.53
3	A	936	LEU	CG-CD2	-6.16	1.32	1.52
3	A	1035	GLN	C-N	-6.16	1.25	1.33
8	G	211	THR	CA-C	-6.16	1.44	1.52
1	1	89	DA	N9-C4	-6.16	1.25	1.38
3	A	325	VAL	CB-CG2	-6.16	1.32	1.52
3	A	328	VAL	CA-CB	-6.16	1.47	1.54
6	E	518	TYR	CE2-CZ	-6.16	1.23	1.38
3	A	1089	VAL	C-O	-6.16	1.16	1.24
5	C	178	TYR	CG-CD1	-6.16	1.26	1.39
6	E	450	GLU	CB-CG	-6.16	1.33	1.52
6	E	477	VAL	CA-CB	-6.16	1.46	1.54
3	A	763	VAL	CB-CG1	-6.15	1.32	1.52
3	A	942	GLU	CB-CG	-6.15	1.33	1.52
6	E	479	LEU	CG-CD2	-6.15	1.32	1.52
3	A	1032	TYR	CD2-CE2	-6.15	1.20	1.38
4	B	43	TYR	CA-C	-6.15	1.45	1.52
6	E	60	GLU	CA-CB	-6.15	1.42	1.53
3	A	47	ILE	CA-C	-6.15	1.45	1.52
3	A	523	GLN	CG-CD	-6.15	1.36	1.52
3	A	724	ILE	CB-CG2	-6.15	1.32	1.52
3	A	1037	LEU	CG-CD2	-6.15	1.32	1.52
4	B	169	VAL	C-N	-6.15	1.26	1.33
5	D	138	MET	CG-SD	-6.15	1.65	1.80
6	E	234	PHE	CA-C	-6.15	1.44	1.52
6	E	304	ARG	CG-CD	-6.15	1.34	1.52
3	A	703	LEU	CA-C	-6.14	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	606	PHE	CG-CD1	-6.14	1.25	1.38
6	E	542	ILE	CB-CG2	-6.14	1.32	1.52
5	D	178	TYR	CG-CD1	-6.14	1.26	1.39
3	A	514	GLN	CA-C	-6.14	1.44	1.53
3	A	675	THR	C-N	-6.14	1.25	1.33
4	B	323	ILE	CG1-CD1	-6.14	1.27	1.51
3	A	974	ILE	CA-C	-6.13	1.45	1.52
5	D	166	ILE	N-CA	-6.13	1.38	1.46
8	G	212	TRP	CA-CB	-6.13	1.43	1.53
3	A	29	ASP	CA-CB	-6.13	1.43	1.53
3	A	1079	SER	CA-CB	-6.13	1.44	1.53
4	B	1014	ILE	CA-C	-6.13	1.45	1.52
6	E	505	PRO	CA-C	-6.13	1.44	1.52
3	A	450	HIS	CA-CB	-6.12	1.42	1.53
4	B	1126	GLN	CA-CB	-6.12	1.43	1.53
5	C	173	VAL	CB-CG2	-6.12	1.32	1.52
6	E	620	GLN	N-CA	-6.12	1.39	1.46
7	F	38	ARG	CA-CB	-6.12	1.43	1.53
1	1	59	DT	N1-C2	-6.12	1.26	1.38
3	A	562	GLN	C-N	-6.12	1.24	1.33
5	C	166	ILE	N-CA	-6.12	1.38	1.46
5	C	207	GLN	CA-C	-6.12	1.45	1.52
6	E	247	THR	CB-CG2	-6.12	1.32	1.52
6	E	295	PRO	CA-C	-6.12	1.44	1.52
2	2	45	DA	N9-C4	-6.12	1.25	1.38
3	A	564	VAL	CA-CB	-6.12	1.46	1.54
3	A	836	VAL	CA-CB	-6.12	1.46	1.54
2	2	52	DA	C1'-N9	-6.12	1.34	1.46
3	A	137	ILE	CB-CG2	-6.12	1.32	1.52
8	G	183	LEU	CG-CD2	-6.12	1.32	1.52
4	B	32	MET	SD-CE	-6.11	1.64	1.79
6	E	116	TRP	CE2-CZ2	-6.11	1.27	1.39
6	E	349	LEU	CA-CB	-6.11	1.38	1.54
5	D	201	ASN	CB-CG	-6.11	1.36	1.52
8	G	286	LEU	CA-CB	-6.11	1.44	1.53
5	C	201	ASN	CB-CG	-6.11	1.36	1.52
3	A	736	ILE	C-N	-6.11	1.25	1.33
4	B	778	ASP	CA-C	-6.11	1.44	1.52
8	G	214	ILE	CA-CB	-6.11	1.46	1.54
3	A	574	VAL	N-CA	-6.10	1.39	1.46
5	D	173	VAL	CB-CG2	-6.10	1.32	1.52
3	A	866	LEU	CG-CD1	-6.10	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	140	PHE	CG-CD2	-6.10	1.26	1.38
3	A	572	PRO	N-CD	-6.10	1.39	1.47
3	A	1032	TYR	CG-CD2	-6.09	1.26	1.39
3	A	795	LYS	CA-CB	-6.09	1.44	1.52
4	B	665	PHE	CB-CG	-6.09	1.36	1.50
5	D	140	PHE	CG-CD2	-6.09	1.26	1.38
3	A	432	PRO	CB-CG	-6.09	1.19	1.49
5	D	53	VAL	CA-C	-6.09	1.44	1.53
6	E	125	ILE	CG1-CD1	-6.09	1.28	1.51
2	2	40	DC	C1'-N1	-6.09	1.31	1.49
6	E	593	VAL	CB-CG1	-6.08	1.32	1.52
3	A	274	ARG	CB-CG	-6.08	1.34	1.52
6	E	392	LEU	CA-C	-6.08	1.45	1.52
3	A	942	GLU	CD-OE2	-6.08	1.13	1.25
4	B	45	THR	CA-CB	-6.08	1.44	1.53
5	C	219	ASP	CA-CB	-6.08	1.44	1.53
1	1	94	DT	C3'-O3'	-6.08	1.24	1.42
3	A	812	GLY	C-N	-6.08	1.25	1.33
6	E	139	ILE	CA-C	-6.08	1.44	1.52
6	E	300	ARG	CA-CB	-6.08	1.43	1.53
6	E	464	PHE	CE2-CZ	-6.08	1.20	1.38
3	A	224	GLU	CB-CG	-6.08	1.34	1.52
3	A	399	LYS	C-N	-6.08	1.25	1.33
5	C	143	GLU	CB-CG	-6.08	1.34	1.52
5	D	143	GLU	CB-CG	-6.08	1.34	1.52
6	E	139	ILE	C-N	-6.08	1.25	1.33
6	E	282	ARG	CA-CB	-6.08	1.43	1.53
3	A	941	ASP	CA-CB	-6.07	1.43	1.53
5	C	53	VAL	CA-C	-6.07	1.44	1.53
6	E	427	PRO	N-CD	-6.07	1.39	1.47
6	E	592	ARG	CA-CB	-6.07	1.43	1.53
4	B	235	LEU	CG-CD2	-6.07	1.32	1.52
5	D	207	GLN	CA-C	-6.07	1.45	1.52
8	G	199	ASP	CB-CG	-6.07	1.36	1.52
5	D	178	TYR	CE1-CZ	-6.07	1.23	1.38
3	A	978	TYR	CD2-CE2	-6.06	1.20	1.38
3	A	931	ILE	CG1-CD1	-6.06	1.28	1.51
3	A	1050	GLU	CG-CD	-6.06	1.36	1.52
6	E	281	ASN	CA-C	-6.06	1.45	1.52
6	E	313	LEU	CB-CG	-6.06	1.41	1.53
3	A	717	ILE	CG1-CD1	-6.06	1.28	1.51
4	B	15	ASN	CA-CB	-6.06	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	960	TYR	CG-CD1	-6.06	1.26	1.39
3	A	96	TYR	CB-CG	-6.05	1.38	1.51
4	B	26	THR	CB-CG2	-6.05	1.32	1.52
4	B	1211	ALA	CA-C	-6.05	1.44	1.52
5	C	77	GLU	CG-CD	-6.05	1.36	1.52
5	D	77	GLU	CG-CD	-6.05	1.36	1.52
6	E	374	GLY	CA-C	-6.05	1.42	1.52
6	E	545	PHE	CG-CD1	-6.05	1.26	1.38
3	A	527	VAL	CA-CB	-6.05	1.45	1.55
2	2	30	DG	C6-N1	-6.05	1.27	1.39
3	A	704	ILE	CG1-CD1	-6.05	1.28	1.51
4	B	32	MET	CG-SD	-6.04	1.65	1.80
6	E	515	LEU	N-CA	-6.04	1.38	1.46
3	A	423	HIS	CA-CB	-6.04	1.43	1.53
3	A	880	VAL	CA-CB	-6.04	1.46	1.54
6	E	142	PHE	CG-CD2	-6.04	1.26	1.38
6	E	520	LEU	CB-CG	-6.04	1.41	1.53
3	A	310	ASP	CB-CG	-6.04	1.36	1.52
6	E	545	PHE	CA-C	-6.04	1.45	1.52
5	C	204	ILE	CB-CG2	-6.04	1.32	1.52
3	A	1073	LEU	CA-C	-6.03	1.44	1.52
6	E	304	ARG	CA-CB	-6.03	1.43	1.53
8	G	189	LEU	CG-CD2	-6.03	1.32	1.52
8	G	196	GLU	CA-CB	-6.03	1.45	1.54
3	A	560	GLN	C-N	-6.03	1.25	1.33
4	B	173	ILE	CB-CG1	-6.03	1.41	1.53
6	E	257	ARG	CA-C	-6.03	1.45	1.52
6	E	260	VAL	CA-CB	-6.03	1.46	1.54
6	E	285	ARG	CA-CB	-6.03	1.44	1.53
6	E	422	VAL	CB-CG2	-6.03	1.32	1.52
3	A	129	ILE	CB-CG2	-6.03	1.32	1.52
3	A	487	ASP	CA-C	-6.03	1.48	1.53
5	D	204	ILE	CB-CG2	-6.03	1.32	1.52
3	A	558	ASN	CA-C	-6.02	1.45	1.52
3	A	715	THR	C-N	-6.02	1.25	1.33
5	C	178	TYR	CE1-CZ	-6.02	1.23	1.38
6	E	386	PRO	CB-CG	-6.02	1.19	1.49
6	E	506	ILE	CA-CB	-6.02	1.46	1.54
3	A	903	LEU	C-N	-6.02	1.26	1.33
4	B	24	TYR	CA-C	-6.02	1.45	1.52
4	B	271	GLU	CA-CB	-6.02	1.44	1.53
5	D	20	TYR	CA-CB	-6.02	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	146	VAL	CB-CG2	-6.02	1.32	1.52
8	G	186	GLU	C-N	-6.02	1.26	1.33
4	B	209	ILE	CB-CG1	-6.02	1.41	1.53
5	D	200	THR	CA-C	-6.02	1.45	1.52
6	E	260	VAL	CB-CG1	-6.02	1.32	1.52
6	E	519	TYR	CE1-CZ	-6.02	1.23	1.38
3	A	960	TYR	N-CA	-6.02	1.39	1.46
1	1	90	DA	C1'-N9	-6.02	1.34	1.46
8	G	218	ILE	CB-CG1	-6.01	1.41	1.53
3	A	589	VAL	CB-CG1	-6.01	1.32	1.52
4	B	24	TYR	C-N	-6.01	1.26	1.33
6	E	277	ARG	CA-CB	-6.01	1.43	1.53
3	A	562	GLN	CG-CD	-6.01	1.37	1.52
7	F	38	ARG	CB-CG	-6.01	1.34	1.52
4	B	1122	VAL	CB-CG1	-6.01	1.32	1.52
6	E	622	ALA	CA-C	-6.01	1.44	1.52
3	A	667	GLN	CB-CG	-6.01	1.34	1.52
5	C	216	ILE	CB-CG2	-6.00	1.32	1.52
6	E	468	PHE	CE2-CZ	-6.00	1.20	1.38
6	E	297	ILE	CB-CG1	-6.00	1.41	1.53
1	1	88	DA	C5-C6	-6.00	1.29	1.41
5	D	216	ILE	CB-CG2	-6.00	1.32	1.52
4	B	1142	GLU	CA-C	-6.00	1.44	1.52
5	C	85	VAL	CA-CB	-6.00	1.46	1.54
6	E	621	GLU	CA-C	-6.00	1.44	1.52
3	A	308	GLU	C-N	-5.99	1.24	1.33
6	E	464	PHE	CA-CB	-5.99	1.42	1.53
7	F	40	LYS	CA-C	-5.99	1.45	1.52
3	A	1003	GLN	CB-CG	-5.99	1.34	1.52
4	B	1226	GLU	CA-C	-5.99	1.44	1.52
4	B	260	ARG	CG-CD	-5.99	1.34	1.52
4	B	200	LEU	C-N	-5.99	1.26	1.33
6	E	519	TYR	C-N	-5.99	1.25	1.33
3	A	931	ILE	CA-CB	-5.98	1.46	1.54
3	A	1033	THR	CA-C	-5.98	1.44	1.52
1	1	85	DG	N9-C4	-5.98	1.26	1.38
3	A	427	TYR	CA-CB	-5.98	1.43	1.53
3	A	679	GLU	CB-CG	-5.98	1.34	1.52
3	A	839	TYR	CA-CB	-5.98	1.42	1.53
3	A	1077	LEU	C-N	-5.98	1.25	1.33
4	B	199	ARG	CA-CB	-5.98	1.43	1.53
3	A	931	ILE	CA-C	-5.98	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	1117	VAL	CB-CG1	-5.97	1.32	1.52
1	1	87	DA	C5-C6	-5.97	1.29	1.41
4	B	1241	ILE	CB-CG2	-5.97	1.32	1.52
5	D	98	ARG	CA-C	-5.97	1.45	1.53
6	E	125	ILE	CA-CB	-5.97	1.48	1.54
2	2	29	DA	C3'-O3'	-5.96	1.24	1.42
3	A	938	GLU	N-CA	-5.96	1.38	1.46
6	E	424	GLU	CB-CG	-5.96	1.34	1.52
3	A	738	ARG	CG-CD	-5.96	1.34	1.52
5	C	43	VAL	CA-CB	-5.96	1.46	1.54
6	E	496	ASN	CA-CB	-5.96	1.42	1.52
3	A	41	PHE	CG-CD2	-5.96	1.26	1.38
5	D	43	VAL	CA-CB	-5.96	1.46	1.54
6	E	103	MET	CA-C	-5.96	1.45	1.52
4	B	3	PHE	CD1-CE1	-5.96	1.20	1.38
3	A	1037	LEU	CA-CB	-5.95	1.42	1.53
5	C	200	THR	CA-C	-5.95	1.45	1.52
6	E	384	PHE	CB-CG	-5.95	1.36	1.50
6	E	276	TYR	CE1-CZ	-5.95	1.24	1.38
3	A	400	ARG	CA-CB	-5.95	1.43	1.53
4	B	19	TRP	CA-CB	-5.95	1.44	1.53
5	D	85	VAL	CA-CB	-5.95	1.46	1.54
4	B	280	VAL	CB-CG2	-5.95	1.32	1.52
3	A	96	TYR	CD2-CE2	-5.94	1.20	1.38
5	C	41	ARG	C-N	-5.94	1.26	1.33
8	G	192	ILE	CG1-CD1	-5.94	1.28	1.51
3	A	128	PHE	CG-CD2	-5.94	1.26	1.38
3	A	545	LEU	CA-CB	-5.94	1.44	1.53
5	C	76	LEU	CA-C	-5.94	1.44	1.52
8	G	228	THR	CB-CG2	-5.94	1.32	1.52
3	A	1073	LEU	C-N	-5.94	1.26	1.33
6	E	229	ARG	CA-CB	-5.94	1.43	1.53
2	2	38	DT	C2-N3	-5.94	1.25	1.37
5	D	76	LEU	CA-C	-5.94	1.44	1.52
3	A	1040	VAL	C-N	-5.93	1.25	1.33
4	B	489	ASN	CA-CB	-5.93	1.34	1.53
4	B	1149	THR	CA-C	-5.93	1.46	1.53
6	E	520	LEU	CG-CD1	-5.93	1.32	1.52
3	A	839	TYR	CG-CD1	-5.93	1.26	1.39
5	C	98	ARG	CA-C	-5.93	1.45	1.53
3	A	1049	ASN	CA-C	-5.93	1.44	1.52
3	A	31	ILE	CB-CG1	-5.93	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	679	GLU	CA-CB	-5.93	1.43	1.53
4	B	1122	VAL	CA-CB	-5.93	1.46	1.54
6	E	50	LEU	CG-CD1	-5.93	1.32	1.52
6	E	142	PHE	CG-CD1	-5.93	1.26	1.38
6	E	275	LEU	C-N	-5.93	1.25	1.33
3	A	433	ILE	CB-CG2	-5.92	1.32	1.52
3	A	719	ILE	CA-CB	-5.92	1.46	1.54
3	A	882	ILE	C-N	-5.92	1.25	1.33
3	A	903	LEU	CG-CD1	-5.92	1.32	1.52
4	B	36	LEU	CG-CD2	-5.92	1.32	1.52
8	G	183	LEU	CG-CD1	-5.92	1.32	1.52
6	E	544	ALA	C-N	-5.92	1.25	1.33
8	G	196	GLU	CG-CD	-5.92	1.37	1.52
3	A	134	GLU	CG-CD	-5.92	1.37	1.52
4	B	24	TYR	CG-CD1	-5.92	1.26	1.39
4	B	239	LEU	CG-CD1	-5.92	1.33	1.52
6	E	212	GLU	CB-CG	-5.92	1.34	1.52
6	E	386	PRO	N-CD	-5.92	1.39	1.47
6	E	563	ASP	C-N	-5.92	1.25	1.33
6	E	117	TYR	CE2-CZ	-5.92	1.24	1.38
6	E	387	PHE	CA-C	-5.92	1.44	1.52
8	G	319	ARG	CB-CG	-5.92	1.34	1.52
3	A	719	ILE	CB-CG2	-5.91	1.33	1.52
6	E	313	LEU	CG-CD2	-5.91	1.33	1.52
6	E	492	LEU	CG-CD1	-5.91	1.33	1.52
3	A	837	ARG	CA-C	-5.91	1.45	1.52
3	A	960	TYR	C-O	-5.91	1.18	1.23
3	A	1039	THR	CB-CG2	-5.91	1.33	1.52
3	A	384	SER	CA-CB	-5.91	1.44	1.52
3	A	680	LEU	CB-CG	-5.91	1.41	1.53
5	D	58	ILE	CA-C	-5.91	1.46	1.52
6	E	476	HIS	CA-C	-5.91	1.45	1.52
5	C	44	LEU	CB-CG	-5.91	1.41	1.53
5	C	220	LEU	CA-C	-5.91	1.45	1.52
6	E	486	GLU	CA-CB	-5.91	1.42	1.53
6	E	506	ILE	CB-CG2	-5.90	1.33	1.52
6	E	489	LEU	N-CA	-5.90	1.38	1.46
2	2	30	DG	C5-C6	-5.90	1.30	1.42
5	D	41	ARG	C-N	-5.90	1.26	1.33
3	A	498	ASP	CB-CG	-5.90	1.37	1.52
4	B	42	ARG	CG-CD	-5.90	1.34	1.52
5	D	44	LEU	CB-CG	-5.90	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	504	ARG	CA-CB	-5.90	1.44	1.53
1	1	77	DA	C3'-O3'	-5.90	1.25	1.42
5	C	46	SER	CA-C	-5.90	1.45	1.52
3	A	453	VAL	CB-CG2	-5.90	1.33	1.52
3	A	639	VAL	CB-CG1	-5.89	1.33	1.52
2	2	50	DG	N7-C5	-5.89	1.27	1.39
5	D	178	TYR	CG-CD2	-5.89	1.26	1.39
3	A	608	VAL	CA-CB	-5.89	1.46	1.54
3	A	639	VAL	CB-CG2	-5.89	1.33	1.52
6	E	564	VAL	CA-C	-5.89	1.45	1.52
9	X	172	LEU	CG-CD1	-5.89	1.33	1.52
4	B	30	ALA	CA-C	-5.88	1.44	1.52
6	E	141	TYR	CA-CB	-5.88	1.44	1.53
4	B	96	ASP	CB-CG	-5.88	1.37	1.52
3	A	850	ASP	CG-OD2	-5.88	1.14	1.25
4	B	1128	VAL	CB-CG1	-5.88	1.33	1.52
4	B	209	ILE	C-N	-5.88	1.25	1.33
4	B	1147	GLN	CA-C	-5.88	1.44	1.52
5	C	178	TYR	CG-CD2	-5.88	1.27	1.39
6	E	105	TYR	CD1-CE1	-5.88	1.21	1.38
4	B	39	LEU	CA-CB	-5.87	1.44	1.53
5	D	178	TYR	CA-CB	-5.87	1.44	1.53
5	C	178	TYR	CA-CB	-5.87	1.44	1.53
3	A	278	ASN	CA-CB	-5.87	1.44	1.53
6	E	420	GLU	CA-CB	-5.86	1.44	1.53
8	G	319	ARG	CG-CD	-5.86	1.34	1.52
2	2	50	DG	N9-C8	-5.86	1.26	1.37
3	A	454	ASN	CA-CB	-5.86	1.44	1.53
3	A	978	TYR	CG-CD2	-5.86	1.27	1.39
6	E	276	TYR	CB-CG	-5.86	1.38	1.51
3	A	589	VAL	CA-CB	-5.86	1.46	1.54
3	A	979	MET	CA-CB	-5.86	1.44	1.53
1	1	97	DT	N1-C2	-5.85	1.26	1.38
3	A	422	ILE	CG1-CD1	-5.85	1.28	1.51
3	A	673	SER	CA-CB	-5.85	1.43	1.53
3	A	184	TRP	CB-CG	-5.85	1.32	1.50
4	B	1209	SER	CA-CB	-5.85	1.43	1.53
6	E	147	VAL	CA-C	-5.85	1.46	1.53
3	A	643	GLN	CB-CG	-5.85	1.34	1.52
6	E	546	GLN	CG-CD	-5.85	1.37	1.52
7	F	22	ILE	CB-CG2	-5.85	1.33	1.52
6	E	118	LEU	CG-CD2	-5.84	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	47	ALA	C-N	-5.84	1.25	1.33
6	E	117	TYR	CD1-CE1	-5.84	1.21	1.38
6	E	303	LYS	CA-C	-5.84	1.45	1.52
3	A	422	ILE	CA-CB	-5.84	1.46	1.54
4	B	1222	GLU	C-N	-5.84	1.26	1.33
3	A	36	SER	CA-C	-5.84	1.45	1.52
6	E	249	ILE	CG1-CD1	-5.84	1.28	1.51
3	A	900	GLU	CA-C	-5.84	1.44	1.52
6	E	282	ARG	C-N	-5.84	1.25	1.33
3	A	490	VAL	CB-CG2	-5.84	1.33	1.52
6	E	63	PHE	CE2-CZ	-5.84	1.21	1.38
7	F	36	ALA	CA-C	-5.84	1.46	1.53
4	B	21	PHE	CE2-CZ	-5.83	1.21	1.38
6	E	519	TYR	CG-CD1	-5.83	1.27	1.39
3	A	444	ILE	CB-CG2	-5.83	1.33	1.52
3	A	671	ASP	C-N	-5.83	1.25	1.33
5	C	58	ILE	CA-C	-5.83	1.46	1.52
6	E	117	TYR	CE1-CZ	-5.83	1.24	1.38
6	E	117	TYR	CG-CD1	-5.83	1.27	1.39
5	D	130	ILE	CG1-CD1	-5.83	1.29	1.51
4	B	244	VAL	CB-CG1	-5.83	1.33	1.52
6	E	139	ILE	CA-CB	-5.83	1.46	1.54
6	E	489	LEU	C-N	-5.83	1.24	1.34
1	1	98	DG	C5-C4	-5.82	1.26	1.38
6	E	375	LEU	CB-CG	-5.82	1.41	1.53
1	1	101	DT	C4'-C3'	-5.82	1.41	1.52
4	B	262	THR	CA-CB	-5.82	1.45	1.53
6	E	342	GLN	CB-CG	-5.82	1.34	1.52
6	E	614	ILE	CA-C	-5.82	1.46	1.52
5	C	170	PHE	CA-CB	-5.82	1.45	1.52
6	E	519	TYR	CB-CG	-5.82	1.38	1.51
3	A	399	LYS	CA-CB	-5.82	1.44	1.53
3	A	675	THR	CA-C	-5.82	1.45	1.52
6	E	278	ARG	N-CA	-5.82	1.39	1.46
7	F	22	ILE	CG1-CD1	-5.82	1.29	1.51
8	G	88	GLU	CG-CD	-5.82	1.37	1.52
3	A	600	TYR	CG-CD2	-5.81	1.27	1.39
6	E	468	PHE	CG-CD1	-5.81	1.26	1.38
3	A	835	VAL	CB-CG2	-5.81	1.33	1.52
4	B	705	ASN	CA-C	-5.81	1.28	1.52
3	A	573	LEU	C-N	-5.81	1.26	1.33
4	B	35	LYS	C-N	-5.81	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	74	DT	N1-C2	-5.81	1.26	1.38
3	A	375	LYS	C-N	-5.81	1.26	1.33
4	B	173	ILE	CA-CB	-5.81	1.48	1.54
6	E	514	VAL	CA-C	-5.81	1.45	1.52
8	G	322	LEU	CB-CG	-5.81	1.41	1.53
3	A	333	GLN	CG-CD	-5.81	1.37	1.52
3	A	604	THR	CA-CB	-5.81	1.45	1.54
5	D	38	ASN	N-CA	-5.81	1.39	1.46
6	E	392	LEU	C-N	-5.81	1.26	1.34
3	A	325	VAL	CB-CG1	-5.80	1.33	1.52
3	A	899	PHE	C-N	-5.80	1.25	1.33
5	D	46	SER	CA-C	-5.80	1.45	1.52
6	E	233	ASN	N-CA	-5.80	1.39	1.46
5	D	216	ILE	CG1-CD1	-5.80	1.29	1.51
3	A	589	VAL	CB-CG2	-5.80	1.33	1.52
6	E	455	GLN	CA-CB	-5.80	1.44	1.53
9	Y	120	MET	N-CA	-5.80	1.38	1.46
3	A	446	SER	CA-C	-5.80	1.45	1.52
5	C	206	PRO	N-CA	-5.80	1.39	1.47
3	A	942	GLU	CG-CD	-5.80	1.37	1.52
3	A	940	ARG	CG-CD	-5.80	1.35	1.52
3	A	1068	GLU	N-CA	-5.80	1.38	1.46
8	G	196	GLU	C-N	-5.79	1.26	1.33
8	G	218	ILE	CA-C	-5.79	1.46	1.52
5	C	216	ILE	CG1-CD1	-5.79	1.29	1.51
3	A	430	ILE	C-N	-5.79	1.23	1.33
5	C	216	ILE	CB-CG1	-5.79	1.41	1.53
5	D	46	SER	CA-CB	-5.79	1.43	1.53
6	E	257	ARG	CG-CD	-5.79	1.35	1.52
6	E	275	LEU	CA-CB	-5.79	1.44	1.53
6	E	302	GLU	CA-CB	-5.79	1.44	1.53
3	A	488	LEU	C-N	-5.79	1.25	1.33
6	E	359	ARG	CA-C	-5.79	1.45	1.52
8	G	211	THR	C-N	-5.79	1.26	1.33
3	A	41	PHE	CE2-CZ	-5.79	1.21	1.38
3	A	431	CYS	C-N	-5.78	1.28	1.33
4	B	1208	ILE	CG1-CD1	-5.78	1.29	1.51
6	E	116	TRP	CD2-CE2	-5.78	1.31	1.41
6	E	494	SER	CA-CB	-5.78	1.43	1.53
4	B	1014	ILE	CG1-CD1	-5.78	1.29	1.51
5	D	216	ILE	CB-CG1	-5.78	1.41	1.53
3	A	363	SER	CA-C	-5.78	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	455	GLN	CB-CG	-5.78	1.35	1.52
8	G	87	GLN	C-N	-5.78	1.26	1.33
6	E	139	ILE	CB-CG1	-5.78	1.41	1.53
2	2	30	DG	C5-C4	-5.78	1.26	1.38
4	B	34	ASP	N-CA	-5.78	1.38	1.46
4	B	282	VAL	CA-CB	-5.78	1.46	1.54
4	B	1143	VAL	CA-CB	-5.78	1.48	1.54
6	E	492	LEU	C-N	-5.78	1.26	1.33
5	C	46	SER	CA-CB	-5.77	1.43	1.53
3	A	83	GLU	CA-C	-5.77	1.45	1.52
3	A	900	GLU	CA-CB	-5.77	1.44	1.53
3	A	411	THR	CA-C	-5.77	1.45	1.52
3	A	1075	ARG	CA-C	-5.77	1.45	1.52
5	D	206	PRO	N-CA	-5.77	1.40	1.47
3	A	738	ARG	N-CA	-5.77	1.38	1.46
4	B	233	ILE	CG1-CD1	-5.77	1.29	1.51
6	E	612	ARG	CB-CG	-5.77	1.35	1.52
1	1	91	DT	C3'-O3'	-5.76	1.25	1.42
3	A	143	ARG	CB-CG	-5.76	1.35	1.52
4	B	1129	TYR	CB-CG	-5.76	1.39	1.51
6	E	297	ILE	N-CA	-5.76	1.38	1.46
8	G	227	ARG	CA-C	-5.76	1.46	1.52
3	A	435	THR	CB-CG2	-5.76	1.33	1.52
3	A	664	VAL	CA-CB	-5.76	1.45	1.54
4	B	263	PRO	CA-C	-5.76	1.44	1.52
5	C	99	LEU	CA-CB	-5.76	1.43	1.53
5	D	60	GLY	C-N	-5.76	1.26	1.33
6	E	504	ARG	CB-CG	-5.76	1.35	1.52
8	G	319	ARG	CA-C	-5.76	1.45	1.52
4	B	540	ILE	C-N	-5.76	1.25	1.33
3	A	243	ARG	CB-CG	-5.76	1.35	1.52
3	A	855	ARG	CA-CB	-5.76	1.44	1.53
5	D	210	LEU	CA-C	-5.76	1.45	1.52
6	E	427	PRO	CA-CB	-5.76	1.45	1.53
6	E	464	PHE	CA-C	-5.76	1.44	1.52
5	C	60	GLY	C-N	-5.75	1.26	1.33
5	D	170	PHE	CB-CG	-5.75	1.37	1.50
3	A	1076	GLU	CA-CB	-5.75	1.44	1.53
4	B	281	VAL	CB-CG1	-5.75	1.33	1.52
6	E	353	ARG	CG-CD	-5.75	1.35	1.52
4	B	1149	THR	CA-CB	-5.75	1.43	1.52
5	D	193	ARG	CA-CB	-5.75	1.39	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	616	ASN	CA-C	-5.75	1.45	1.52
5	C	38	ASN	N-CA	-5.75	1.39	1.46
3	A	440	ASN	CB-CG	-5.75	1.37	1.52
5	D	196	LEU	CB-CG	-5.75	1.42	1.53
3	A	219	PHE	CA-CB	-5.75	1.43	1.53
3	A	581	GLN	CA-CB	-5.75	1.44	1.53
3	A	605	GLU	CA-CB	-5.75	1.44	1.53
6	E	376	PRO	CA-C	-5.75	1.45	1.52
6	E	254	PRO	N-CD	-5.75	1.39	1.47
4	B	1114	LEU	N-CA	-5.74	1.39	1.46
4	B	1115	GLN	CG-CD	-5.74	1.37	1.52
3	A	33	ILE	C-N	-5.74	1.25	1.33
5	C	200	THR	CB-CG2	-5.74	1.33	1.52
8	G	218	ILE	CB-CG2	-5.74	1.33	1.52
4	B	21	PHE	CA-CB	-5.74	1.43	1.53
6	E	140	VAL	CB-CG2	-5.74	1.33	1.52
5	D	200	THR	CB-CG2	-5.74	1.33	1.52
3	A	717	ILE	CB-CG1	-5.74	1.42	1.53
5	C	170	PHE	CB-CG	-5.74	1.37	1.50
5	C	193	ARG	CA-CB	-5.74	1.39	1.54
8	G	186	GLU	CB-CG	-5.74	1.35	1.52
8	G	286	LEU	CG-CD1	-5.74	1.33	1.52
8	G	216	GLN	CG-CD	-5.73	1.37	1.52
3	A	128	PHE	CD2-CE2	-5.73	1.21	1.38
4	B	323	ILE	CB-CG2	-5.73	1.33	1.52
4	B	1118	GLN	C-N	-5.73	1.27	1.33
5	D	99	LEU	CA-CB	-5.73	1.43	1.53
6	E	386	PRO	CA-C	-5.73	1.44	1.52
3	A	990	ILE	CB-CG2	-5.73	1.33	1.52
4	B	2	ILE	CG1-CD1	-5.73	1.29	1.51
3	A	378	PHE	CG-CD2	-5.73	1.26	1.38
5	D	193	ARG	CA-C	-5.73	1.45	1.52
6	E	375	LEU	CA-C	-5.73	1.45	1.52
3	A	844	ARG	CA-C	-5.73	1.46	1.52
4	B	1239	VAL	CB-CG2	-5.72	1.33	1.52
6	E	275	LEU	CB-CG	-5.72	1.42	1.53
6	E	301	ASN	CA-C	-5.72	1.45	1.52
5	C	196	LEU	CB-CG	-5.72	1.42	1.53
5	D	40	LEU	CG-CD2	-5.72	1.33	1.52
3	A	277	LEU	CA-C	-5.72	1.45	1.52
3	A	838	VAL	CA-CB	-5.72	1.46	1.55
6	E	566	SER	CA-C	-5.72	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	899	PHE	CG-CD2	-5.72	1.26	1.38
3	A	1037	LEU	CG-CD1	-5.72	1.33	1.52
4	B	1125	VAL	CB-CG1	-5.72	1.33	1.52
5	D	170	PHE	CA-CB	-5.71	1.45	1.52
6	E	314	ILE	C-N	-5.71	1.25	1.33
3	A	898	VAL	CA-C	-5.71	1.44	1.52
5	C	40	LEU	CG-CD2	-5.71	1.33	1.52
6	E	300	ARG	CG-CD	-5.71	1.35	1.52
6	E	507	ILE	CG1-CD1	-5.71	1.29	1.51
4	B	239	LEU	CA-CB	-5.71	1.44	1.53
5	C	210	LEU	CA-C	-5.71	1.45	1.52
3	A	845	LYS	CA-CB	-5.71	1.45	1.53
5	C	42	ARG	CA-C	-5.70	1.45	1.52
6	E	63	PHE	CG-CD1	-5.70	1.26	1.38
6	E	60	GLU	CA-C	-5.70	1.44	1.52
3	A	431	CYS	CA-CB	-5.70	1.43	1.53
6	E	563	ASP	CA-CB	-5.70	1.39	1.53
3	A	431	CYS	CA-C	-5.70	1.45	1.52
3	A	452	ARG	CA-CB	-5.70	1.43	1.53
5	C	193	ARG	CA-C	-5.70	1.45	1.52
3	A	565	PRO	CB-CG	-5.70	1.21	1.49
6	E	375	LEU	CA-CB	-5.70	1.44	1.53
6	E	254	PRO	N-CA	-5.70	1.40	1.47
6	E	509	PRO	CB-CG	-5.69	1.21	1.49
3	A	115	PHE	CD1-CE1	-5.69	1.21	1.38
3	A	680	LEU	CA-CB	-5.69	1.43	1.53
3	A	1036	GLU	C-N	-5.69	1.26	1.33
7	F	31	ILE	CA-CB	-5.69	1.46	1.54
8	G	211	THR	CA-CB	-5.69	1.43	1.53
3	A	899	PHE	N-CA	-5.69	1.39	1.46
6	E	519	TYR	CG-CD2	-5.69	1.27	1.39
5	D	71	VAL	CB-CG1	-5.69	1.33	1.52
3	A	387	MET	CB-CG	-5.68	1.35	1.52
6	E	387	PHE	CG-CD1	-5.68	1.26	1.38
4	B	176	SER	CA-CB	-5.68	1.44	1.53
5	C	71	VAL	CB-CG1	-5.68	1.33	1.52
5	D	149	ARG	N-CA	-5.68	1.39	1.46
6	E	196	LEU	C-N	-5.68	1.27	1.33
3	A	426	HIS	CA-CB	-5.68	1.43	1.53
5	D	42	ARG	CA-C	-5.68	1.45	1.52
3	A	97	VAL	CB-CG2	-5.68	1.33	1.52
3	A	267	TYR	CD1-CE1	-5.68	1.21	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	402	LEU	CG-CD2	-5.68	1.33	1.52
3	A	1052	LEU	CA-C	-5.68	1.45	1.52
3	A	1071	LYS	CB-CG	-5.68	1.35	1.52
5	C	194	LEU	CG-CD1	-5.68	1.33	1.52
5	D	54	THR	CA-CB	-5.68	1.43	1.53
6	E	251	VAL	CA-CB	-5.68	1.46	1.54
6	E	311	ASP	CA-C	-5.68	1.45	1.52
8	G	213	TRP	CG-CD1	-5.68	1.22	1.36
4	B	28	ARG	N-CA	-5.68	1.39	1.46
5	C	54	THR	CA-CB	-5.68	1.43	1.53
3	A	446	SER	CA-CB	-5.67	1.43	1.53
3	A	529	VAL	CB-CG1	-5.67	1.33	1.52
3	A	140	GLN	CA-C	-5.67	1.45	1.53
3	A	884	LEU	CA-CB	-5.67	1.45	1.53
5	D	216	ILE	CA-C	-5.67	1.46	1.52
1	1	74	DT	C4-C5	-5.67	1.33	1.44
3	A	564	VAL	CB-CG1	-5.67	1.33	1.52
8	G	316	ASN	CA-CB	-5.67	1.43	1.53
3	A	396	LEU	CA-CB	-5.67	1.44	1.53
3	A	1072	VAL	CA-CB	-5.67	1.48	1.54
6	E	384	PHE	CG-CD1	-5.67	1.26	1.38
3	A	129	ILE	CA-C	-5.67	1.45	1.52
4	B	37	LYS	CG-CD	-5.67	1.35	1.52
5	D	41	ARG	CA-CB	-5.67	1.44	1.53
6	E	145	TYR	CB-CG	-5.67	1.39	1.51
6	E	565	GLU	CB-CG	-5.67	1.35	1.52
2	2	61	DT	C1'-N1	-5.66	1.32	1.49
3	A	433	ILE	C-N	-5.66	1.26	1.33
3	A	456	TYR	CB-CG	-5.66	1.39	1.51
3	A	815	VAL	CB-CG2	-5.66	1.33	1.52
5	D	216	ILE	CA-CB	-5.66	1.48	1.54
6	E	246	MET	CA-C	-5.66	1.45	1.52
8	G	192	ILE	CA-C	-5.66	1.45	1.52
3	A	579	GLU	CG-CD	-5.66	1.37	1.52
6	E	304	ARG	C-N	-5.66	1.26	1.33
3	A	958	MET	CB-CG	-5.66	1.35	1.52
3	A	1035	GLN	CA-CB	-5.66	1.44	1.53
4	B	671	VAL	CB-CG1	-5.66	1.33	1.52
5	C	41	ARG	CA-CB	-5.66	1.44	1.53
5	C	54	THR	CB-CG2	-5.66	1.33	1.52
6	E	518	TYR	CA-C	-5.66	1.45	1.52
7	F	31	ILE	CG1-CD1	-5.66	1.29	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	172	TYR	CD1-CE1	-5.66	1.21	1.38
6	E	591	ARG	N-CA	-5.65	1.37	1.46
3	A	420	ARG	CA-C	-5.65	1.45	1.53
6	E	146	VAL	CA-C	-5.65	1.45	1.52
6	E	306	LEU	CA-CB	-5.65	1.44	1.53
6	E	614	ILE	CA-CB	-5.65	1.48	1.54
3	A	430	ILE	CA-CB	-5.65	1.46	1.54
5	D	194	LEU	CG-CD1	-5.65	1.33	1.52
6	E	514	VAL	CA-CB	-5.65	1.47	1.54
3	A	1052	LEU	CA-CB	-5.64	1.44	1.53
3	A	1066	THR	C-N	-5.64	1.26	1.33
5	C	199	TRP	CD2-CE3	-5.64	1.31	1.40
6	E	542	ILE	CG1-CD1	-5.64	1.29	1.51
3	A	137	ILE	CA-C	-5.64	1.45	1.52
6	E	392	LEU	CA-CB	-5.64	1.44	1.53
6	E	520	LEU	C-N	-5.64	1.26	1.33
4	B	272	ILE	C-N	-5.64	1.25	1.33
3	A	335	GLN	CB-CG	-5.64	1.35	1.52
5	C	139	GLU	CB-CG	-5.64	1.35	1.52
6	E	141	TYR	CG-CD2	-5.64	1.27	1.39
6	E	316	ASN	CA-C	-5.63	1.45	1.53
1	1	75	DA	C6-N6	-5.63	1.22	1.34
3	A	1004	GLN	CA-CB	-5.63	1.44	1.54
5	D	54	THR	CB-CG2	-5.63	1.33	1.52
3	A	1032	TYR	CE1-CZ	-5.63	1.24	1.38
3	A	574	VAL	CA-C	-5.63	1.46	1.52
3	A	1074	MET	CA-CB	-5.63	1.44	1.53
4	B	238	ARG	CA-CB	-5.63	1.43	1.53
4	B	239	LEU	C-N	-5.63	1.25	1.33
6	E	194	LEU	C-N	-5.63	1.24	1.33
5	D	199	TRP	CD2-CE3	-5.63	1.31	1.40
6	E	299	VAL	CB-CG2	-5.63	1.33	1.52
3	A	526	TYR	CD1-CE1	-5.62	1.21	1.38
3	A	975	GLY	C-N	-5.62	1.27	1.33
5	C	216	ILE	CA-C	-5.62	1.46	1.52
5	D	139	GLU	CB-CG	-5.62	1.35	1.52
3	A	455	GLN	C-N	-5.62	1.25	1.33
4	B	1017	LEU	CG-CD1	-5.62	1.33	1.52
6	E	253	PRO	N-CD	-5.62	1.39	1.47
8	G	191	LEU	CG-CD1	-5.62	1.33	1.52
6	E	195	ARG	CA-C	-5.62	1.42	1.52
2	2	53	DT	C2-N3	-5.62	1.26	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	40	LEU	CB-CG	-5.62	1.42	1.53
5	D	40	LEU	CB-CG	-5.62	1.42	1.53
6	E	506	ILE	CA-C	-5.62	1.45	1.52
8	G	188	SER	CA-CB	-5.62	1.44	1.53
1	1	90	DA	N9-C4	-5.62	1.26	1.38
4	B	211	GLU	CB-CG	-5.62	1.35	1.52
3	A	433	ILE	CA-C	-5.62	1.45	1.52
5	D	181	GLU	CB-CG	-5.62	1.35	1.52
6	E	352	LYS	CB-CG	-5.62	1.35	1.52
3	A	643	GLN	CA-C	-5.61	1.46	1.52
3	A	671	ASP	CA-C	-5.61	1.45	1.52
2	2	38	DT	N3-C4	-5.61	1.27	1.38
6	E	573	PRO	CA-C	-5.61	1.46	1.53
3	A	572	PRO	CG-CD	-5.61	1.31	1.50
6	E	256	LEU	CG-CD2	-5.61	1.34	1.52
6	E	545	PHE	CD1-CE1	-5.61	1.21	1.38
3	A	142	VAL	CB-CG1	-5.61	1.34	1.52
2	2	43	DG	C5-C6	-5.61	1.30	1.42
3	A	41	PHE	C-N	-5.60	1.27	1.33
3	A	1077	LEU	CA-C	-5.60	1.45	1.52
6	E	244	MET	CB-CG	-5.60	1.35	1.52
3	A	798	ASP	CA-CB	-5.60	1.38	1.54
3	A	427	TYR	CB-CG	-5.60	1.39	1.51
3	A	732	GLY	C-N	-5.60	1.20	1.33
3	A	435	THR	CA-C	-5.60	1.45	1.52
3	A	1049	ASN	CA-CB	-5.60	1.44	1.53
6	E	508	THR	CA-CB	-5.60	1.44	1.53
5	C	194	LEU	CA-CB	-5.60	1.44	1.53
1	1	99	DT	C2-N3	-5.59	1.26	1.37
3	A	974	ILE	CA-CB	-5.59	1.48	1.55
4	B	208	ILE	CA-C	-5.59	1.45	1.52
3	A	512	TYR	CB-CG	-5.59	1.39	1.51
6	E	390	ASN	CA-CB	-5.59	1.44	1.53
3	A	585	ASP	CB-CG	-5.59	1.38	1.52
3	A	1078	GLN	CA-C	-5.59	1.44	1.52
3	A	998	TYR	CG-CD1	-5.59	1.27	1.39
4	B	238	ARG	CG-CD	-5.59	1.35	1.52
4	B	631	TRP	NE1-CE2	-5.59	1.31	1.37
5	D	63	HIS	CA-CB	-5.59	1.44	1.53
6	E	194	LEU	CG-CD2	-5.59	1.34	1.52
3	A	432	PRO	CA-CB	-5.59	1.46	1.54
3	A	901	CYS	CA-CB	-5.59	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	904	GLY	N-CA	-5.59	1.39	1.45
6	E	142	PHE	CD1-CE1	-5.59	1.21	1.38
6	E	373	CYS	CA-C	-5.59	1.45	1.52
3	A	35	ARG	CB-CG	-5.58	1.35	1.52
3	A	219	PHE	CA-C	-5.58	1.45	1.52
4	B	2	ILE	C-N	-5.58	1.26	1.33
4	B	223	ARG	CA-C	-5.58	1.45	1.52
6	E	520	LEU	CA-CB	-5.58	1.44	1.53
3	A	130	ILE	CB-CG1	-5.58	1.42	1.53
6	E	146	VAL	CB-CG1	-5.58	1.34	1.52
6	E	346	ARG	CB-CG	-5.58	1.35	1.52
3	A	703	LEU	C-O	-5.58	1.16	1.23
7	F	31	ILE	CB-CG1	-5.58	1.42	1.53
4	B	252	LYS	CG-CD	-5.58	1.35	1.52
5	C	216	ILE	CA-CB	-5.58	1.48	1.54
6	E	490	LEU	C-N	-5.58	1.24	1.34
3	A	815	VAL	N-CA	-5.58	1.39	1.46
6	E	276	TYR	CE2-CZ	-5.58	1.24	1.38
8	G	186	GLU	CA-CB	-5.58	1.44	1.53
8	G	216	GLN	CB-CG	-5.58	1.35	1.52
3	A	803	SER	CA-CB	-5.57	1.45	1.53
5	D	218	VAL	CA-C	-5.57	1.45	1.52
3	A	559	MET	C-N	-5.57	1.26	1.34
3	A	848	VAL	CA-CB	-5.57	1.48	1.54
5	C	40	LEU	CA-C	-5.57	1.45	1.52
6	E	254	PRO	CB-CG	-5.57	1.21	1.49
3	A	386	PHE	CA-CB	-5.57	1.44	1.53
3	A	638	THR	CA-C	-5.57	1.45	1.53
3	A	714	TYR	CB-CG	-5.57	1.39	1.51
5	D	194	LEU	CA-CB	-5.57	1.44	1.53
8	G	286	LEU	CB-CG	-5.57	1.42	1.53
3	A	721	LYS	C-O	-5.56	1.17	1.23
3	A	41	PHE	CA-CB	-5.56	1.44	1.53
5	C	42	ARG	CB-CG	-5.56	1.35	1.52
6	E	301	ASN	CA-CB	-5.56	1.44	1.53
4	B	172	TYR	CA-C	-5.56	1.45	1.52
4	B	239	LEU	CB-CG	-5.56	1.42	1.53
6	E	282	ARG	CG-CD	-5.56	1.35	1.52
6	E	478	PRO	N-CD	-5.56	1.40	1.47
3	A	931	ILE	CB-CG2	-5.56	1.34	1.52
6	E	117	TYR	CG-CD2	-5.56	1.27	1.39
3	A	115	PHE	CB-CG	-5.55	1.37	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	899	PHE	CE2-CZ	-5.55	1.22	1.38
6	E	300	ARG	CA-C	-5.55	1.45	1.52
6	E	618	ALA	CA-C	-5.55	1.45	1.52
6	E	62	ILE	CB-CG1	-5.55	1.42	1.53
6	E	482	GLU	CA-CB	-5.55	1.44	1.53
8	G	183	LEU	C-N	-5.55	1.26	1.34
3	A	1005	PRO	CA-C	-5.55	1.44	1.52
3	A	549	ASP	CA-C	-5.55	1.46	1.52
4	B	243	VAL	CA-CB	-5.55	1.47	1.54
4	B	198	ARG	N-CA	-5.55	1.39	1.46
6	E	401	ILE	N-CA	-5.55	1.38	1.46
3	A	978	TYR	CA-C	-5.55	1.46	1.52
3	A	1052	LEU	CG-CD1	-5.55	1.34	1.52
8	G	218	ILE	N-CA	-5.55	1.40	1.46
3	A	1076	GLU	CA-C	-5.54	1.45	1.52
4	B	325	GLU	CA-C	-5.54	1.45	1.52
4	B	1224	ALA	CA-C	-5.54	1.45	1.52
3	A	263	ASP	C-N	-5.54	1.20	1.33
3	A	961	ASP	C-N	-5.54	1.26	1.33
3	A	835	VAL	CA-CB	-5.54	1.47	1.54
3	A	837	ARG	CG-CD	-5.54	1.35	1.52
6	E	297	ILE	CA-C	-5.54	1.44	1.52
4	B	1241	ILE	CA-C	-5.54	1.45	1.52
5	C	98	ARG	CB-CG	-5.54	1.35	1.52
5	D	98	ARG	CB-CG	-5.54	1.35	1.52
6	E	260	VAL	CB-CG2	-5.54	1.34	1.52
6	E	507	ILE	N-CA	-5.54	1.40	1.46
3	A	609	ARG	CB-CG	-5.54	1.35	1.52
6	E	258	PRO	CA-C	-5.54	1.45	1.52
6	E	245	VAL	CA-C	-5.53	1.45	1.52
3	A	423	HIS	CB-CG	-5.53	1.42	1.50
4	B	196	LEU	CA-CB	-5.53	1.44	1.53
5	D	42	ARG	CB-CG	-5.53	1.35	1.52
6	E	331	LEU	CG-CD2	-5.53	1.34	1.52
3	A	943	THR	N-CA	-5.53	1.39	1.46
4	B	322	SER	CA-C	-5.53	1.45	1.52
4	B	1208	ILE	CB-CG2	-5.53	1.34	1.52
5	C	63	HIS	CA-CB	-5.53	1.45	1.53
6	E	228	LEU	CB-CG	-5.53	1.42	1.53
3	A	667	GLN	CG-CD	-5.53	1.38	1.52
3	A	978	TYR	CA-CB	-5.53	1.45	1.53
3	A	1052	LEU	CB-CG	-5.53	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	40	LEU	CA-C	-5.53	1.45	1.52
3	A	1034	LEU	CA-C	-5.52	1.45	1.52
3	A	41	PHE	CD1-CE1	-5.52	1.22	1.38
4	B	573	ASN	CG-ND2	-5.52	1.21	1.33
3	A	664	VAL	CA-C	-5.52	1.46	1.52
4	B	1018	LEU	CA-C	-5.52	1.45	1.52
4	B	1118	GLN	CA-CB	-5.52	1.44	1.53
6	E	479	LEU	CB-CG	-5.52	1.42	1.53
3	A	37	SER	CA-C	-5.52	1.45	1.52
3	A	983	VAL	CB-CG2	-5.52	1.34	1.52
6	E	315	ASP	CB-CG	-5.52	1.38	1.52
4	B	1120	PHE	CA-CB	-5.52	1.44	1.53
3	A	1067	PRO	C-N	-5.51	1.25	1.33
6	E	484	GLN	CG-CD	-5.51	1.38	1.52
3	A	446	SER	C-N	-5.51	1.25	1.33
6	E	102	ARG	CA-CB	-5.51	1.44	1.53
3	A	595	ASP	CG-OD2	-5.51	1.14	1.25
3	A	714	TYR	CG-CD2	-5.51	1.27	1.39
7	F	22	ILE	CB-CG1	-5.51	1.42	1.53
3	A	377	PHE	N-CA	-5.51	1.39	1.46
6	E	473	MET	CA-C	-5.51	1.45	1.53
2	2	37	DT	N1-C2	-5.51	1.27	1.38
3	A	447	LEU	CG-CD1	-5.51	1.34	1.52
3	A	1001	VAL	CB-CG1	-5.51	1.34	1.52
4	B	167	LEU	CG-CD1	-5.50	1.34	1.52
3	A	839	TYR	CA-C	-5.50	1.45	1.52
4	B	45	THR	CA-C	-5.50	1.45	1.52
6	E	245	VAL	CA-CB	-5.50	1.47	1.54
3	A	991	HIS	CA-CB	-5.50	1.44	1.53
6	E	141	TYR	CG-CD1	-5.50	1.27	1.39
6	E	489	LEU	CA-CB	-5.50	1.44	1.53
1	1	89	DA	C5-C6	-5.50	1.30	1.41
6	E	481	LEU	CB-CG	-5.50	1.42	1.53
6	E	196	LEU	CB-CG	-5.50	1.42	1.53
3	A	344	GLU	CB-CG	-5.50	1.35	1.52
5	C	178	TYR	CE2-CZ	-5.50	1.25	1.38
1	1	77	DA	C5-C6	-5.49	1.30	1.41
1	1	101	DT	C3'-O3'	-5.49	1.26	1.42
3	A	422	ILE	C-N	-5.49	1.24	1.33
6	E	372	GLN	CA-CB	-5.49	1.43	1.54
5	D	218	VAL	C-N	-5.49	1.26	1.33
8	G	213	TRP	CA-CB	-5.49	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	76	DC	C1'-N1	-5.49	1.32	1.49
3	A	128	PHE	CA-C	-5.49	1.46	1.52
3	A	563	ALA	CA-CB	-5.49	1.45	1.53
6	E	388	VAL	CA-CB	-5.49	1.48	1.54
3	A	586	SER	CA-C	-5.49	1.45	1.52
3	A	976	VAL	CA-CB	-5.49	1.45	1.55
6	E	474	ALA	CA-CB	-5.49	1.44	1.53
6	E	515	LEU	CA-CB	-5.49	1.43	1.53
4	B	1124	GLU	N-CA	-5.49	1.39	1.46
1	1	79	DA	C5-C6	-5.48	1.30	1.41
5	D	53	VAL	CB-CG1	-5.48	1.34	1.52
6	E	250	PRO	CA-C	-5.48	1.44	1.52
6	E	449	VAL	CB-CG1	-5.48	1.34	1.52
3	A	224	GLU	CG-CD	-5.48	1.38	1.52
4	B	520	GLY	C-O	-5.48	1.17	1.23
6	E	547	GLN	CG-CD	-5.48	1.38	1.52
6	E	623	LEU	CG-CD2	-5.48	1.34	1.52
1	1	73	DA	C1'-N9	-5.48	1.35	1.46
5	C	218	VAL	CA-C	-5.48	1.45	1.52
6	E	546	GLN	CA-CB	-5.48	1.43	1.53
5	D	178	TYR	CE2-CZ	-5.48	1.25	1.38
3	A	370	LEU	CA-C	-5.48	1.46	1.52
3	A	1053	ASN	CA-CB	-5.48	1.45	1.53
3	A	527	VAL	CB-CG2	-5.47	1.34	1.52
6	E	429	MET	CA-C	-5.47	1.46	1.52
8	G	87	GLN	CD-OE1	-5.47	1.13	1.23
3	A	142	VAL	CB-CG2	-5.47	1.34	1.52
3	A	722	TYR	CE1-CZ	-5.47	1.25	1.38
3	A	38	PHE	CG-CD1	-5.47	1.27	1.38
3	A	309	TYR	C-O	-5.47	1.16	1.24
4	B	201	VAL	CA-C	-5.47	1.46	1.52
3	A	392	PRO	N-CD	-5.47	1.40	1.47
3	A	883	VAL	CA-CB	-5.47	1.47	1.54
4	B	32	MET	CA-CB	-5.47	1.44	1.53
6	E	515	LEU	CA-C	-5.47	1.45	1.52
3	A	399	LYS	CG-CD	-5.47	1.36	1.52
7	F	61	ALA	CA-C	-5.47	1.45	1.52
8	G	102	GLU	CG-CD	5.47	1.65	1.52
1	1	79	DA	C1'-N9	-5.46	1.35	1.46
3	A	31	ILE	C-N	-5.46	1.26	1.33
3	A	393	LEU	CA-CB	-5.46	1.44	1.53
3	A	1067	PRO	CA-C	-5.46	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	104	DT	C2'-C1'	-5.46	1.42	1.52
4	B	16	LEU	N-CA	-5.46	1.40	1.46
3	A	398	HIS	CA-CB	-5.46	1.45	1.53
7	F	34	GLN	CG-CD	-5.46	1.38	1.52
3	A	261	PHE	CG-CD2	-5.46	1.27	1.38
1	1	103	DA	C5-C6	-5.46	1.30	1.41
3	A	565	PRO	N-CA	-5.46	1.40	1.47
6	E	448	LEU	CA-CB	-5.46	1.44	1.53
3	A	580	ALA	CA-C	-5.45	1.45	1.52
3	A	594	THR	CA-C	-5.45	1.45	1.52
3	A	956	LYS	C-N	-5.45	1.26	1.33
3	A	1066	THR	CA-C	-5.45	1.45	1.52
4	B	1127	MET	CA-C	-5.45	1.45	1.52
6	E	389	ILE	CA-CB	-5.45	1.47	1.54
3	A	41	PHE	CE1-CZ	-5.45	1.22	1.38
6	E	360	SER	CA-C	-5.45	1.46	1.53
3	A	1051	ALA	C-N	-5.45	1.27	1.33
4	B	42	ARG	CA-C	-5.45	1.45	1.52
5	C	53	VAL	CB-CG1	-5.45	1.34	1.52
5	C	166	ILE	CB-CG1	-5.45	1.42	1.53
3	A	433	ILE	CB-CG1	-5.45	1.42	1.53
3	A	1071	LYS	C-N	-5.45	1.27	1.33
5	D	166	ILE	CB-CG1	-5.45	1.42	1.53
6	E	141	TYR	CA-C	-5.45	1.44	1.52
6	E	231	ILE	C-N	-5.45	1.26	1.33
6	E	344	ARG	CB-CG	-5.45	1.36	1.52
5	C	180	VAL	CB-CG1	-5.44	1.34	1.52
8	G	284	ILE	CB-CG2	-5.44	1.34	1.52
3	A	271	ARG	CA-C	-5.44	1.45	1.52
3	A	676	GLU	CA-CB	-5.44	1.44	1.53
3	A	956	LYS	CB-CG	-5.44	1.36	1.52
5	C	207	GLN	C-N	-5.44	1.26	1.34
3	A	1033	THR	C-N	-5.44	1.27	1.33
4	B	16	LEU	CB-CG	-5.43	1.42	1.53
1	1	86	DG	C3'-O3'	-5.43	1.26	1.42
3	A	1043	ASP	CB-CG	-5.43	1.38	1.52
4	B	24	TYR	CE1-CZ	-5.43	1.25	1.38
6	E	376	PRO	CB-CG	-5.43	1.22	1.49
3	A	267	TYR	CB-CG	-5.43	1.39	1.51
3	A	802	ASN	CA-CB	-5.43	1.45	1.52
2	2	58	DA	N9-C4	-5.43	1.27	1.38
3	A	687	VAL	CA-C	-5.43	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	515	GLU	CA-CB	-5.43	1.40	1.53
3	A	642	TYR	CB-CG	-5.43	1.39	1.51
3	A	1070	PHE	CG-CD1	-5.43	1.27	1.38
6	E	519	TYR	CE2-CZ	-5.43	1.25	1.38
8	G	214	ILE	CA-C	-5.43	1.45	1.52
3	A	788	LEU	N-CA	-5.42	1.39	1.46
3	A	1032	TYR	N-CA	-5.42	1.40	1.46
4	B	135	SER	CA-C	-5.42	1.46	1.52
6	E	35	VAL	CA-C	-5.42	1.46	1.53
3	A	1034	LEU	CB-CG	-5.42	1.42	1.53
4	B	19	TRP	CG-CD1	-5.42	1.23	1.36
2	2	59	DG	C1'-N9	-5.42	1.35	1.46
3	A	687	VAL	CA-CB	-5.42	1.47	1.54
4	B	168	THR	CB-CG2	-5.42	1.34	1.52
4	B	1244	LEU	CA-CB	-5.42	1.46	1.53
6	E	200	ILE	CG1-CD1	-5.42	1.30	1.51
6	E	543	MET	CB-CG	-5.42	1.36	1.52
1	1	100	DA	O5'-C5'	-5.42	1.26	1.42
4	B	237	THR	CA-C	-5.42	1.45	1.52
3	A	933	HIS	CA-CB	-5.42	1.45	1.53
5	D	207	GLN	C-N	-5.42	1.26	1.34
8	G	211	THR	CB-CG2	-5.42	1.34	1.52
3	A	39	ARG	CA-C	-5.41	1.45	1.52
6	E	619	ILE	C-N	-5.41	1.27	1.33
5	D	180	VAL	CB-CG1	-5.41	1.34	1.52
2	2	51	DT	C2-N3	-5.41	1.26	1.37
3	A	974	ILE	CG1-CD1	-5.41	1.30	1.51
3	A	714	TYR	CA-CB	-5.41	1.45	1.53
3	A	787	LEU	C-N	-5.41	1.26	1.33
3	A	1052	LEU	C-N	-5.41	1.27	1.33
4	B	3	PHE	CE1-CZ	-5.41	1.22	1.38
6	E	304	ARG	CA-C	-5.41	1.45	1.52
3	A	437	GLU	CA-C	-5.41	1.47	1.53
4	B	1113	ALA	C-N	-5.41	1.27	1.33
6	E	63	PHE	CG-CD2	-5.41	1.27	1.38
7	F	28	ARG	CB-CG	-5.41	1.36	1.52
8	G	185	GLN	CG-CD	-5.41	1.38	1.52
6	E	234	PHE	CA-CB	-5.40	1.44	1.53
6	E	545	PHE	CG-CD2	-5.40	1.27	1.38
3	A	609	ARG	CA-CB	-5.40	1.44	1.53
4	B	24	TYR	CB-CG	-5.40	1.39	1.51
3	A	392	PRO	N-CA	-5.40	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	668	VAL	CB-CG2	-5.40	1.34	1.52
3	A	1034	LEU	N-CA	-5.40	1.39	1.46
4	B	185	ASP	CA-CB	-5.40	1.45	1.53
6	E	476	HIS	CB-CG	-5.40	1.42	1.50
6	E	517	ALA	CA-C	-5.40	1.45	1.52
6	E	231	ILE	CB-CG2	-5.40	1.34	1.52
6	E	463	ALA	CA-C	-5.40	1.46	1.52
6	E	541	VAL	CA-CB	-5.40	1.47	1.54
3	A	903	LEU	CB-CG	-5.40	1.42	1.53
4	B	1145	VAL	CA-CB	-5.40	1.48	1.54
1	1	78	DA	C1'-N9	-5.39	1.35	1.46
4	B	631	TRP	CG-CD2	-5.39	1.34	1.43
6	E	301	ASN	C-N	-5.39	1.27	1.33
3	A	979	MET	CG-SD	-5.39	1.67	1.80
4	B	326	PRO	N-CA	-5.39	1.40	1.47
6	E	145	TYR	CA-C	-5.39	1.45	1.52
3	A	95	MET	CB-CG	-5.39	1.36	1.52
4	B	1053	GLU	CD-OE1	-5.39	1.15	1.25
8	G	219	THR	CB-CG2	-5.39	1.34	1.52
3	A	681	ALA	CA-C	-5.39	1.47	1.53
4	B	1243	ARG	CB-CG	-5.39	1.36	1.52
3	A	574	VAL	CA-CB	-5.38	1.47	1.54
3	A	423	HIS	N-CA	-5.38	1.38	1.46
3	A	845	LYS	CA-C	-5.38	1.46	1.53
3	A	881	ASP	C-N	-5.38	1.26	1.33
3	A	578	LEU	CA-C	-5.38	1.47	1.53
6	E	474	ALA	CA-C	-5.38	1.45	1.52
6	E	623	LEU	CB-CG	-5.38	1.42	1.53
4	B	21	PHE	CD2-CE2	-5.38	1.22	1.38
5	C	210	LEU	CB-CG	-5.38	1.42	1.53
6	E	591	ARG	CA-C	-5.38	1.45	1.53
8	G	92	ILE	CB-CG2	-5.38	1.34	1.52
3	A	663	VAL	CB-CG1	-5.38	1.34	1.52
4	B	1225	ILE	CA-CB	-5.38	1.48	1.54
3	A	383	LEU	C-N	-5.37	1.27	1.33
1	1	79	DA	N9-C4	-5.37	1.27	1.38
6	E	590	TYR	CA-C	-5.37	1.45	1.52
4	B	31	VAL	N-CA	-5.37	1.38	1.46
5	C	196	LEU	CG-CD2	-5.37	1.34	1.52
6	E	616	ASN	CA-CB	-5.37	1.44	1.53
6	E	621	GLU	CA-CB	-5.37	1.43	1.53
3	A	903	LEU	CG-CD2	-5.37	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	86	ILE	CB-CG2	-5.37	1.34	1.52
6	E	454	ILE	N-CA	-5.37	1.39	1.46
3	A	757	ILE	CG1-CD1	-5.36	1.30	1.51
4	B	27	ALA	C-N	-5.36	1.27	1.33
4	B	200	LEU	CA-CB	-5.36	1.45	1.53
6	E	587	LEU	CA-C	-5.36	1.45	1.53
3	A	663	VAL	CB-CG2	-5.36	1.34	1.52
6	E	515	LEU	C-N	-5.36	1.25	1.33
6	E	520	LEU	N-CA	-5.36	1.39	1.46
2	2	30	DG	N9-C4	-5.36	1.27	1.38
3	A	963	ARG	CA-CB	-5.36	1.44	1.53
4	B	1140	HIS	CA-C	-5.36	1.46	1.52
6	E	518	TYR	CE1-CZ	-5.36	1.25	1.38
6	E	544	ALA	CA-C	-5.36	1.45	1.52
3	A	705	SER	CA-C	-5.36	1.46	1.53
5	D	196	LEU	CG-CD2	-5.36	1.34	1.52
6	E	299	VAL	CA-C	-5.36	1.45	1.52
3	A	52	SER	CA-CB	-5.36	1.44	1.53
3	A	443	LEU	CG-CD2	-5.36	1.34	1.52
4	B	974	VAL	C-N	-5.36	1.04	1.34
3	A	278	ASN	N-CA	-5.35	1.40	1.46
3	A	526	TYR	CA-C	-5.35	1.46	1.52
3	A	32	GLU	CB-CG	-5.35	1.36	1.52
4	B	1129	TYR	CE2-CZ	-5.35	1.25	1.38
4	B	163	PHE	CB-CG	-5.35	1.38	1.50
4	B	201	VAL	N-CA	-5.35	1.40	1.46
5	C	45	LEU	CG-CD2	-5.35	1.34	1.52
6	E	311	ASP	C-N	-5.35	1.26	1.33
6	E	419	LEU	CG-CD1	-5.35	1.34	1.52
6	E	491	MET	SD-CE	-5.35	1.66	1.79
4	B	39	LEU	C-N	-5.34	1.25	1.33
5	D	86	ILE	CB-CG2	-5.34	1.34	1.52
6	E	252	ILE	C-N	-5.34	1.27	1.33
8	G	313	VAL	CB-CG2	-5.34	1.34	1.52
3	A	1067	PRO	CB-CG	-5.34	1.23	1.49
6	E	245	VAL	CB-CG1	-5.34	1.34	1.52
6	E	623	LEU	CG-CD1	-5.34	1.34	1.52
5	D	210	LEU	CB-CG	-5.34	1.42	1.53
6	E	276	TYR	N-CA	-5.34	1.39	1.46
6	E	391	ARG	CA-C	-5.34	1.45	1.52
8	G	184	ILE	CB-CG1	-5.34	1.42	1.53
3	A	554	LEU	CG-CD1	-5.34	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	347	ILE	CG1-CD1	-5.33	1.30	1.51
5	C	169	ILE	CA-CB	-5.33	1.47	1.54
1	1	74	DT	C5-C6	-5.33	1.23	1.34
4	B	27	ALA	CA-C	-5.33	1.45	1.52
6	E	254	PRO	CA-CB	-5.33	1.46	1.53
6	E	423	ILE	CG1-CD1	-5.33	1.30	1.51
7	F	38	ARG	CG-CD	-5.33	1.36	1.52
3	A	378	PHE	CA-CB	-5.33	1.44	1.53
4	B	272	ILE	CA-C	-5.33	1.46	1.52
1	1	105	DG	C3'-O3'	-5.33	1.26	1.42
2	2	33	DA	C5-C4	-5.33	1.27	1.38
4	B	76	THR	C-N	-5.33	1.26	1.33
4	B	1015	GLU	CA-C	-5.33	1.45	1.52
6	E	490	LEU	CB-CG	-5.33	1.42	1.53
8	G	191	LEU	C-N	-5.33	1.26	1.33
3	A	715	THR	CA-C	-5.33	1.46	1.52
5	D	45	LEU	CG-CD2	-5.33	1.34	1.52
5	D	195	LEU	CG-CD2	-5.33	1.34	1.52
3	A	555	MET	CA-CB	-5.33	1.45	1.53
3	A	643	GLN	CG-CD	-5.33	1.38	1.52
3	A	993	ARG	CA-CB	-5.33	1.43	1.52
4	B	262	THR	CA-C	-5.33	1.47	1.52
3	A	1042	SER	N-CA	-5.32	1.40	1.46
4	B	3	PHE	CG-CD2	-5.32	1.27	1.38
8	G	192	ILE	CB-CG2	-5.32	1.34	1.52
3	A	1041	LYS	N-CA	-5.32	1.40	1.46
6	E	387	PHE	CD2-CE2	-5.32	1.22	1.38
8	G	214	ILE	CG1-CD1	-5.32	1.30	1.51
3	A	378	PHE	CA-C	-5.32	1.45	1.52
4	B	44	ALA	CA-C	-5.32	1.45	1.52
5	D	169	ILE	CA-CB	-5.32	1.47	1.54
8	G	215	ARG	CA-C	-5.32	1.45	1.52
3	A	38	PHE	CD1-CE1	-5.32	1.22	1.38
6	E	103	MET	CA-CB	-5.32	1.44	1.53
6	E	250	PRO	N-CA	-5.32	1.40	1.47
1	1	86	DG	C2-N3	-5.31	1.22	1.33
1	1	99	DT	N1-C2	-5.31	1.27	1.38
3	A	547	HIS	CA-C	-5.31	1.46	1.53
3	A	1036	GLU	CD-OE2	-5.31	1.15	1.25
4	B	1146	ARG	C-N	-5.31	1.26	1.33
6	E	419	LEU	CB-CG	-5.31	1.42	1.53
6	E	463	ALA	C-N	-5.31	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	441	ALA	C-N	-5.31	1.26	1.33
4	B	45	THR	C-N	-5.31	1.26	1.33
4	B	265	SER	CA-CB	-5.31	1.44	1.53
1	1	89	DA	C1'-N9	-5.31	1.35	1.46
3	A	524	VAL	CB-CG1	-5.31	1.35	1.52
7	F	21	LEU	CA-CB	-5.31	1.45	1.53
5	D	20	TYR	N-CA	-5.30	1.39	1.46
6	E	426	HIS	CA-C	-5.30	1.46	1.52
6	E	468	PHE	CA-CB	-5.30	1.45	1.53
4	B	746	VAL	C-N	-5.30	1.21	1.33
5	D	78	ILE	CA-CB	-5.30	1.48	1.54
6	E	391	ARG	C-N	-5.30	1.27	1.33
6	E	492	LEU	CA-C	-5.30	1.46	1.52
3	A	685	ASN	N-CA	-5.30	1.40	1.46
6	E	380	ALA	CA-C	-5.30	1.45	1.52
8	G	204	TYR	CD2-CE2	-5.30	1.22	1.38
4	B	40	GLY	C-N	-5.29	1.27	1.33
5	C	195	LEU	CG-CD2	-5.29	1.35	1.52
6	E	244	MET	C-N	-5.29	1.26	1.33
3	A	943	THR	CB-CG2	-5.29	1.35	1.52
3	A	512	TYR	CA-C	-5.29	1.45	1.52
4	B	1228	LYS	CA-CB	-5.29	1.44	1.53
3	A	736	ILE	CA-C	-5.29	1.46	1.52
3	A	865	ILE	CA-CB	-5.29	1.47	1.54
4	B	19	TRP	CZ3-CH2	-5.29	1.27	1.40
6	E	505	PRO	N-CA	-5.29	1.40	1.47
3	A	30	LEU	CA-CB	-5.29	1.46	1.53
3	A	898	VAL	CA-CB	-5.29	1.47	1.54
4	B	171	GLU	CA-CB	-5.29	1.45	1.53
4	B	653	TYR	CD1-CE1	-5.29	1.22	1.38
6	E	387	PHE	CD1-CE1	-5.29	1.22	1.38
1	1	106	DG	C5-C6	-5.28	1.31	1.42
3	A	429	ARG	CA-CB	-5.28	1.46	1.54
3	A	998	TYR	CE1-CZ	-5.28	1.25	1.38
3	A	998	TYR	CG-CD2	-5.28	1.28	1.39
3	A	1040	VAL	N-CA	-5.28	1.39	1.46
4	B	3	PHE	CA-CB	-5.28	1.44	1.53
4	B	1224	ALA	C-N	-5.28	1.28	1.34
6	E	102	ARG	CA-C	-5.28	1.46	1.53
3	A	331	LEU	CA-C	-5.28	1.45	1.52
3	A	902	LEU	CA-CB	-5.28	1.45	1.53
3	A	430	ILE	CB-CG1	-5.28	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	389	ILE	CA-C	-5.28	1.46	1.52
6	E	387	PHE	CE2-CZ	-5.28	1.22	1.38
6	E	313	LEU	CA-CB	-5.28	1.45	1.53
7	F	34	GLN	CA-C	-5.28	1.45	1.52
3	A	1049	ASN	C-N	-5.28	1.26	1.33
7	F	29	TYR	CD2-CE2	-5.28	1.22	1.38
4	B	242	ARG	CB-CG	-5.27	1.36	1.52
3	A	382	GLN	CG-CD	-5.27	1.38	1.52
3	A	714	TYR	CD1-CE1	-5.27	1.22	1.38
6	E	346	ARG	CG-CD	-5.27	1.36	1.52
2	2	30	DG	C1'-N9	-5.27	1.35	1.46
4	B	631	TRP	CZ3-CH2	-5.27	1.27	1.40
1	1	100	DA	N9-C8	-5.27	1.26	1.37
3	A	715	THR	CB-OG1	-5.27	1.35	1.43
3	A	899	PHE	CD2-CE2	-5.27	1.22	1.38
4	B	481	TRP	CE3-CZ3	-5.27	1.22	1.38
6	E	615	TYR	CE1-CZ	-5.27	1.25	1.38
3	A	159	ARG	CA-CB	-5.26	1.32	1.54
3	A	998	TYR	CD1-CE1	-5.26	1.22	1.38
5	C	142	ILE	CA-CB	-5.26	1.46	1.55
6	E	346	ARG	C-N	-5.26	1.26	1.33
6	E	542	ILE	CB-CG1	-5.26	1.43	1.53
3	A	559	MET	CA-C	-5.26	1.45	1.52
6	E	197	LEU	CG-CD2	-5.26	1.35	1.52
6	E	376	PRO	CA-CB	-5.26	1.46	1.53
3	A	428	GLY	C-N	-5.26	1.25	1.33
3	A	717	ILE	CA-C	-5.26	1.46	1.52
4	B	20	ALA	C-N	-5.26	1.26	1.33
1	1	100	DA	P-O5'	-5.26	1.50	1.60
3	A	135	ARG	CA-C	-5.26	1.46	1.52
3	A	814	VAL	CA-C	-5.26	1.46	1.52
3	A	583	ALA	CA-C	-5.26	1.46	1.52
4	B	26	THR	N-CA	-5.26	1.41	1.46
5	D	42	ARG	CA-CB	-5.26	1.45	1.53
6	E	49	THR	CA-CB	-5.26	1.45	1.53
8	G	212	TRP	CG-CD2	-5.26	1.34	1.43
8	G	288	THR	CA-CB	-5.26	1.45	1.53
3	A	590	ILE	CG1-CD1	-5.26	1.31	1.51
3	A	1070	PHE	CE1-CZ	-5.26	1.22	1.38
5	C	42	ARG	CA-CB	-5.26	1.45	1.53
6	E	118	LEU	CB-CG	-5.26	1.43	1.53
6	E	515	LEU	CG-CD2	-5.26	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	188	SER	N-CA	-5.26	1.40	1.46
3	A	1073	LEU	CG-CD2	-5.25	1.35	1.52
1	1	86	DG	C5-C6	-5.25	1.31	1.42
3	A	1036	GLU	N-CA	-5.25	1.40	1.46
3	A	1066	THR	CA-CB	-5.25	1.45	1.53
3	A	1074	MET	C-N	-5.25	1.27	1.33
4	B	17	ILE	CA-C	-5.25	1.46	1.52
6	E	616	ASN	C-N	-5.25	1.27	1.33
4	B	1125	VAL	CB-CG2	-5.25	1.35	1.52
5	C	218	VAL	C-N	-5.25	1.26	1.33
6	E	63	PHE	CD1-CE1	-5.25	1.22	1.38
6	E	493	ALA	CA-C	-5.25	1.45	1.52
3	A	424	PRO	CA-C	-5.25	1.44	1.52
3	A	445	GLY	C-N	-5.25	1.26	1.33
3	A	1038	LEU	CG-CD2	-5.25	1.35	1.52
5	C	78	ILE	CA-CB	-5.25	1.48	1.54
5	D	180	VAL	CA-CB	-5.25	1.47	1.54
6	E	543	MET	CA-C	-5.25	1.45	1.52
6	E	617	LYS	CA-CB	-5.25	1.45	1.53
1	1	98	DG	N1-C2	-5.25	1.27	1.38
3	A	37	SER	CA-CB	-5.25	1.45	1.53
6	E	479	LEU	CG-CD1	-5.25	1.35	1.52
7	F	60	ARG	CB-CG	-5.25	1.36	1.52
3	A	261	PHE	CD1-CE1	-5.24	1.23	1.38
4	B	1244	LEU	CG-CD2	-5.24	1.35	1.52
3	A	811	LYS	CB-CG	-5.24	1.36	1.52
5	D	142	ILE	CA-CB	-5.24	1.46	1.55
6	E	63	PHE	CE1-CZ	-5.24	1.23	1.38
3	A	390	THR	C-N	-5.24	1.22	1.33
3	A	815	VAL	CA-C	-5.24	1.46	1.52
3	A	1005	PRO	N-CD	-5.24	1.40	1.47
6	E	617	LYS	C-N	-5.24	1.27	1.33
3	A	565	PRO	CA-C	-5.24	1.45	1.52
3	A	586	SER	CA-CB	-5.24	1.44	1.53
3	A	900	GLU	N-CA	-5.24	1.39	1.46
4	B	250	HIS	CA-CB	-5.24	1.44	1.53
1	1	88	DA	C5-C4	-5.24	1.28	1.38
2	2	50	DG	C5-C6	-5.24	1.31	1.42
3	A	430	ILE	CB-CG2	-5.24	1.35	1.52
4	B	1242	GLY	C-N	-5.24	1.26	1.33
3	A	488	LEU	CB-CG	-5.23	1.43	1.53
5	C	168	SER	CA-CB	-5.23	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	231	ILE	CG1-CD1	-5.23	1.31	1.51
6	E	468	PHE	CA-C	-5.23	1.44	1.52
3	A	434	GLU	CA-CB	-5.23	1.44	1.53
3	A	736	ILE	CB-CG2	-5.23	1.35	1.52
6	E	125	ILE	CB-CG2	-5.23	1.35	1.52
3	A	337	ARG	CB-CG	-5.23	1.36	1.52
3	A	637	TYR	C-N	-5.23	1.26	1.33
6	E	249	ILE	CA-CB	-5.23	1.47	1.54
1	1	88	DA	C4'-C3'	-5.23	1.42	1.52
2	2	50	DG	C5-C4	-5.23	1.27	1.38
3	A	902	LEU	CB-CG	-5.23	1.43	1.53
4	B	16	LEU	CA-CB	-5.23	1.45	1.53
4	B	264	ILE	CA-CB	-5.23	1.46	1.53
6	E	495	ASN	C-N	-5.23	1.27	1.33
3	A	1000	LEU	CB-CG	-5.22	1.43	1.53
4	B	21	PHE	CG-CD2	-5.22	1.27	1.38
5	D	20	TYR	CG-CD2	-5.22	1.28	1.39
4	B	1238	ASN	CA-C	-5.22	1.45	1.52
5	C	120	VAL	CA-C	-5.22	1.44	1.52
6	E	295	PRO	CG-CD	-5.22	1.32	1.50
4	B	36	LEU	CA-CB	-5.22	1.45	1.53
5	D	203	SER	CA-CB	-5.22	1.45	1.53
6	E	509	PRO	N-CD	-5.22	1.40	1.47
1	1	58	DA	C2-N3	-5.22	1.23	1.33
3	A	565	PRO	CA-CB	-5.22	1.46	1.53
4	B	1116	LYS	CA-C	-5.22	1.45	1.52
6	E	382	GLU	CA-CB	-5.22	1.44	1.53
1	1	96	DC	N1-C2	-5.21	1.29	1.40
3	A	600	TYR	CE2-CZ	-5.21	1.25	1.38
3	A	682	LEU	CG-CD1	-5.21	1.35	1.52
4	B	77	GLU	N-CA	-5.21	1.39	1.46
5	C	180	VAL	CA-CB	-5.21	1.47	1.54
5	D	20	TYR	CD1-CE1	-5.21	1.23	1.38
6	E	89	CYS	CB-SG	-5.21	1.64	1.81
3	A	905	TRP	NE1-CE2	-5.21	1.31	1.37
3	A	937	GLN	CG-CD	-5.21	1.39	1.52
3	A	846	ILE	CA-CB	-5.21	1.47	1.54
4	B	32	MET	CA-C	-5.21	1.46	1.52
7	F	35	VAL	C-N	-5.21	1.27	1.33
1	1	100	DA	C1'-N9	-5.21	1.36	1.46
3	A	802	ASN	C-N	-5.21	1.26	1.33
3	A	1073	LEU	CA-CB	-5.21	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	268	LEU	N-CA	-5.21	1.40	1.46
3	A	142	VAL	CA-CB	-5.21	1.48	1.54
4	B	21	PHE	CA-C	-5.21	1.45	1.52
4	B	199	ARG	CG-CD	-5.21	1.36	1.52
5	C	192	ASP	C-N	-5.21	1.25	1.33
6	E	300	ARG	N-CA	-5.21	1.39	1.46
3	A	96	TYR	CD1-CE1	-5.21	1.23	1.38
3	A	1069	SER	CA-C	-5.21	1.45	1.52
4	B	19	TRP	C-N	-5.21	1.27	1.33
4	B	24	TYR	CE2-CZ	-5.21	1.25	1.38
3	A	40	TRP	CA-CB	-5.21	1.44	1.53
3	A	392	PRO	CG-CD	-5.21	1.33	1.50
6	E	455	GLN	CA-C	-5.21	1.46	1.53
1	1	100	DA	O4'-C1'	-5.20	1.31	1.41
5	D	194	LEU	CA-C	-5.20	1.46	1.52
6	E	513	MET	CA-C	-5.20	1.45	1.52
5	D	168	SER	CA-CB	-5.20	1.45	1.53
2	2	31	DA	O5'-C5'	-5.20	1.27	1.42
3	A	382	GLN	CA-C	-5.20	1.44	1.52
3	A	444	ILE	CA-C	-5.20	1.46	1.52
3	A	982	LEU	CA-CB	-5.20	1.44	1.53
6	E	484	GLN	CA-C	-5.20	1.46	1.52
8	G	285	SER	CA-CB	-5.20	1.45	1.53
3	A	376	GLU	N-CA	-5.20	1.40	1.46
3	A	402	LEU	CB-CG	-5.20	1.43	1.53
4	B	1120	PHE	CA-C	-5.20	1.45	1.52
1	1	62	DT	C3'-C2'	-5.20	1.42	1.52
3	A	1067	PRO	CA-CB	-5.20	1.46	1.53
4	B	174	ILE	CG1-CD1	-5.20	1.31	1.51
5	D	192	ASP	C-N	-5.20	1.25	1.33
6	E	261	GLN	C-N	-5.20	1.26	1.33
1	1	104	DT	C2-O2	-5.19	1.11	1.22
3	A	266	ARG	C-N	-5.19	1.25	1.33
3	A	140	GLN	CA-CB	-5.19	1.45	1.53
6	E	105	TYR	C-N	-5.19	1.27	1.33
3	A	490	VAL	CA-CB	-5.19	1.48	1.54
3	A	840	VAL	CA-CB	-5.19	1.47	1.54
3	A	453	VAL	CB-CG1	-5.19	1.35	1.52
4	B	1147	GLN	C-N	-5.19	1.25	1.33
5	C	194	LEU	CA-C	-5.19	1.46	1.52
8	G	141	LEU	C-N	-5.19	1.26	1.34
3	A	606	ILE	CB-CG2	-5.19	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	67	DA	C1'-N9	-5.18	1.36	1.46
4	B	256	VAL	C-N	-5.18	1.26	1.33
4	B	1237	GLU	C-N	-5.18	1.26	1.33
6	E	322	THR	CA-C	-5.18	1.46	1.52
3	A	438	GLY	C-N	-5.18	1.27	1.33
3	A	1061	ILE	CB-CG1	-5.18	1.43	1.53
4	B	172	TYR	CD2-CE2	-5.18	1.23	1.38
6	E	314	ILE	CA-CB	-5.18	1.48	1.54
6	E	478	PRO	CG-CD	-5.18	1.33	1.50
6	E	506	ILE	C-N	-5.18	1.27	1.33
6	E	234	PHE	CD1-CE1	-5.18	1.23	1.38
8	G	88	GLU	N-CA	-5.18	1.40	1.46
2	2	3	DT	C1'-N1	-5.18	1.33	1.49
4	B	3	PHE	CA-C	-5.18	1.46	1.52
4	B	1014	ILE	CB-CG2	-5.18	1.35	1.52
5	D	40	LEU	CA-CB	-5.18	1.44	1.53
5	D	129	THR	CA-CB	-5.18	1.44	1.53
6	E	244	MET	CG-SD	-5.18	1.67	1.80
1	1	80	DA	N9-C4	-5.18	1.27	1.38
3	A	1071	LYS	CA-C	-5.18	1.45	1.52
3	A	522	GLU	CA-C	-5.17	1.46	1.52
4	B	1118	GLN	CA-C	-5.17	1.46	1.52
5	C	218	VAL	CB-CG1	-5.17	1.35	1.52
4	B	41	PHE	CG-CD2	-5.17	1.27	1.38
4	B	264	ILE	N-CA	-5.17	1.39	1.46
4	B	774	LEU	C-N	-5.17	1.27	1.34
5	C	203	SER	CA-CB	-5.17	1.45	1.53
5	C	207	GLN	CG-CD	-5.17	1.39	1.52
1	1	94	DT	N1-C2	-5.17	1.28	1.38
3	A	128	PHE	CD1-CE1	-5.17	1.23	1.38
6	E	259	MET	CA-C	-5.17	1.46	1.52
3	A	381	SER	CA-C	-5.17	1.46	1.53
3	A	1077	LEU	CG-CD1	-5.17	1.35	1.52
5	D	207	GLN	CG-CD	-5.17	1.39	1.52
6	E	513	MET	SD-CE	-5.17	1.66	1.79
3	A	326	ARG	CG-CD	-5.17	1.36	1.52
3	A	573	LEU	CG-CD1	-5.17	1.35	1.52
6	E	119	LYS	CA-C	-5.17	1.41	1.52
6	E	622	ALA	C-N	-5.17	1.26	1.33
1	1	80	DA	C1'-N9	-5.17	1.36	1.46
3	A	169	ARG	CB-CG	-5.16	1.36	1.52
4	B	1132	GLN	CB-CG	-5.16	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	205	SER	CA-C	-5.16	1.46	1.53
5	D	218	VAL	CB-CG1	-5.16	1.35	1.52
6	E	487	ALA	CA-CB	-5.16	1.44	1.53
3	A	759	ILE	CB-CG2	-5.16	1.35	1.52
6	E	280	ILE	CA-C	-5.16	1.46	1.52
2	2	39	DT	P-O5'	-5.16	1.50	1.60
3	A	285	VAL	C-N	-5.16	1.21	1.33
3	A	497	VAL	CB-CG1	-5.16	1.35	1.52
8	G	213	TRP	CD2-CE2	-5.16	1.32	1.41
3	A	38	PHE	CE1-CZ	-5.16	1.23	1.38
4	B	177	TYR	CA-C	-5.16	1.45	1.52
3	A	398	HIS	C-N	-5.16	1.27	1.33
3	A	591	VAL	CA-CB	-5.16	1.48	1.54
3	A	606	ILE	CG1-CD1	-5.16	1.31	1.51
4	B	467	GLN	CD-OE1	-5.16	1.13	1.23
4	B	1019	GLU	CA-CB	-5.16	1.44	1.53
5	C	40	LEU	CA-CB	-5.16	1.44	1.53
2	2	30	DG	N3-C4	-5.15	1.25	1.35
6	E	227	ARG	C-N	-5.15	1.26	1.33
6	E	621	GLU	C-N	-5.15	1.26	1.33
5	C	169	ILE	CG1-CD1	-5.15	1.31	1.51
3	A	977	ALA	C-N	-5.15	1.26	1.33
6	E	497	ILE	CG1-CD1	-5.15	1.31	1.51
2	2	42	DT	C1'-N1	-5.15	1.34	1.49
4	B	1147	GLN	CA-CB	-5.15	1.43	1.53
9	X	39	ASP	C-N	5.15	1.45	1.33
4	B	2	ILE	CA-C	-5.15	1.46	1.52
5	D	169	ILE	CG1-CD1	-5.15	1.31	1.51
6	E	590	TYR	CA-CB	-5.15	1.45	1.54
3	A	141	ILE	CA-CB	-5.14	1.47	1.54
3	A	392	PRO	CA-C	-5.14	1.45	1.52
5	C	211	SER	CA-C	-5.14	1.45	1.52
6	E	331	LEU	CG-CD1	-5.14	1.35	1.52
4	B	20	ALA	CA-CB	-5.14	1.45	1.53
6	E	547	GLN	CA-C	-5.14	1.45	1.52
8	G	89	ILE	CB-CG1	-5.14	1.43	1.53
3	A	808	ASN	CA-CB	-5.14	1.44	1.53
5	D	140	PHE	CB-CG	-5.14	1.38	1.50
5	D	205	SER	CA-C	-5.14	1.46	1.53
6	E	516	GLY	C-N	-5.14	1.27	1.34
2	2	50	DG	C1'-N9	-5.14	1.36	1.46
3	A	47	ILE	CB-CG2	-5.14	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	763	VAL	CB-CG2	-5.14	1.35	1.52
3	A	1048	ARG	CA-C	-5.14	1.46	1.52
4	B	481	TRP	CZ3-CH2	-5.14	1.27	1.40
4	B	1141	ILE	CA-C	-5.14	1.46	1.52
5	D	88	LYS	CA-CB	-5.14	1.46	1.53
5	D	211	SER	CA-C	-5.14	1.45	1.52
2	2	29	DA	N9-C4	-5.13	1.27	1.38
3	A	720	GLU	CA-CB	-5.13	1.44	1.53
3	A	1001	VAL	CA-C	-5.13	1.45	1.52
4	B	1013	ARG	CB-CG	-5.13	1.37	1.52
3	A	554	LEU	CB-CG	-5.13	1.43	1.53
3	A	376	GLU	CG-CD	-5.13	1.39	1.52
3	A	444	ILE	CB-CG1	-5.13	1.43	1.53
6	E	316	ASN	C-N	-5.13	1.26	1.33
7	F	32	THR	CA-C	-5.13	1.46	1.52
3	A	562	GLN	CA-C	-5.13	1.46	1.53
6	E	472	GLN	CA-C	-5.13	1.46	1.52
2	2	59	DG	C5-C6	-5.12	1.31	1.42
3	A	391	ASN	CA-CB	-5.12	1.45	1.53
4	B	174	ILE	C-N	-5.12	1.26	1.33
1	1	107	DG	N9-C4	-5.12	1.27	1.38
3	A	565	PRO	CG-CD	-5.12	1.33	1.50
4	B	1148	MET	C-N	-5.12	1.25	1.33
5	D	144	ARG	CB-CG	-5.12	1.37	1.52
6	E	276	TYR	CD2-CE2	-5.12	1.23	1.38
8	G	213	TRP	CE2-CZ2	-5.12	1.29	1.39
6	E	105	TYR	CE1-CZ	-5.12	1.25	1.38
7	F	21	LEU	N-CA	-5.12	1.40	1.46
6	E	360	SER	C-N	-5.12	1.26	1.33
8	G	195	ALA	C-N	-5.12	1.25	1.33
3	A	763	VAL	CA-CB	-5.12	1.48	1.54
4	B	240	LEU	CA-CB	-5.12	1.45	1.53
5	C	140	PHE	CB-CG	-5.12	1.38	1.50
1	1	95	DT	C4-C5	-5.11	1.34	1.44
3	A	434	GLU	C-N	-5.11	1.23	1.33
8	G	204	TYR	CZ-OH	-5.11	1.27	1.38
3	A	637	TYR	N-CA	-5.11	1.39	1.46
6	E	194	LEU	CA-C	-5.11	1.46	1.52
6	E	315	ASP	CA-CB	-5.11	1.45	1.52
6	E	620	GLN	CA-C	-5.11	1.46	1.52
3	A	833	ASN	CB-CG	-5.11	1.39	1.52
3	A	853	ALA	CA-CB	-5.11	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1069	SER	C-N	-5.11	1.26	1.33
1	1	81	DT	C3'-O3'	-5.11	1.27	1.42
6	E	475	VAL	CA-C	-5.11	1.46	1.52
2	2	36	DT	C2-N3	-5.10	1.27	1.37
1	1	107	DG	C5-C6	-5.10	1.31	1.42
3	A	722	TYR	CE2-CZ	-5.10	1.26	1.38
4	B	41	PHE	CD2-CE2	-5.10	1.23	1.38
4	B	1148	MET	CA-C	-5.10	1.45	1.52
2	2	30	DG	N1-C2	-5.10	1.27	1.38
6	E	295	PRO	CB-CG	-5.10	1.24	1.49
6	E	617	LYS	CG-CD	-5.10	1.37	1.52
3	A	168	ASN	CB-CG	-5.10	1.39	1.52
3	A	431	CYS	CB-SG	-5.10	1.64	1.81
3	A	545	LEU	C-N	-5.10	1.27	1.33
4	B	1109	CYS	CB-SG	-5.10	1.64	1.81
6	E	309	ALA	CA-CB	-5.10	1.45	1.53
6	E	386	PRO	CG-CD	-5.10	1.33	1.50
6	E	448	LEU	CG-CD2	-5.10	1.35	1.52
6	E	615	TYR	CD1-CE1	-5.10	1.23	1.38
7	F	30	ARG	CA-C	-5.10	1.46	1.52
3	A	993	ARG	CA-C	-5.10	1.47	1.52
3	A	1045	MET	CA-C	-5.10	1.46	1.52
1	1	86	DG	N3-C4	-5.09	1.25	1.35
3	A	1061	ILE	CA-CB	-5.09	1.49	1.55
4	B	280	VAL	CA-CB	-5.09	1.47	1.54
4	B	1126	GLN	C-N	-5.09	1.27	1.34
6	E	513	MET	N-CA	-5.09	1.39	1.46
2	2	43	DG	N9-C4	-5.09	1.27	1.38
3	A	139	ASN	CG-ND2	-5.09	1.22	1.33
4	B	26	THR	CA-C	-5.09	1.47	1.53
4	B	252	LYS	CB-CG	-5.09	1.37	1.52
6	E	426	HIS	C-O	-5.09	1.18	1.24
6	E	545	PHE	CE2-CZ	-5.09	1.23	1.38
3	A	847	GLN	C-N	-5.09	1.28	1.33
5	D	127	VAL	CB-CG2	-5.09	1.35	1.52
5	D	212	SER	C-N	-5.09	1.27	1.33
6	E	450	GLU	CA-CB	-5.09	1.46	1.53
6	E	197	LEU	CA-C	-5.09	1.46	1.52
6	E	244	MET	SD-CE	-5.09	1.66	1.79
6	E	514	VAL	C-N	-5.09	1.26	1.33
7	F	21	LEU	CG-CD2	-5.09	1.35	1.52
2	2	31	DA	P-O5'	-5.08	1.50	1.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	278	ASN	CB-CG	-5.08	1.39	1.52
6	E	489	LEU	CB-CG	-5.08	1.43	1.53
6	E	590	TYR	CG-CD1	-5.08	1.28	1.39
1	1	98	DG	C2-N3	-5.08	1.23	1.33
4	B	782	VAL	CB-CG2	-5.08	1.35	1.52
1	1	75	DA	C5-C4	-5.08	1.28	1.38
3	A	525	ASP	C-N	-5.08	1.26	1.33
4	B	606	PHE	CE2-CZ	-5.08	1.23	1.38
6	E	252	ILE	CA-CB	-5.08	1.44	1.53
1	1	98	DG	N9-C8	-5.08	1.27	1.37
3	A	768	ILE	CA-C	-5.08	1.46	1.52
4	B	329	GLN	CB-CG	-5.08	1.37	1.52
2	2	48	DT	C1'-N1	-5.08	1.34	1.49
5	C	199	TRP	CE3-CZ3	-5.08	1.23	1.38
4	B	279	GLU	CG-CD	-5.08	1.39	1.52
3	A	384	SER	N-CA	-5.07	1.40	1.46
4	B	209	ILE	CA-C	-5.07	1.47	1.52
3	A	565	PRO	N-CD	-5.07	1.40	1.47
6	E	465	ASN	CA-C	-5.07	1.48	1.53
3	A	1077	LEU	CA-CB	-5.07	1.45	1.53
4	B	1238	ASN	N-CA	-5.07	1.39	1.46
3	A	139	ASN	CG-OD1	-5.07	1.14	1.23
3	A	584	ARG	C-N	-5.07	1.26	1.33
3	A	1074	MET	N-CA	-5.07	1.40	1.46
4	B	47	ALA	N-CA	-5.07	1.40	1.46
4	B	201	VAL	CB-CG2	-5.07	1.35	1.52
1	1	81	DT	C1'-N1	-5.07	1.34	1.49
2	2	32	DA	N9-C4	-5.07	1.27	1.38
6	E	194	LEU	CB-CG	-5.07	1.43	1.53
3	A	680	LEU	CA-C	-5.06	1.46	1.52
5	C	211	SER	CA-CB	-5.06	1.45	1.53
3	A	377	PHE	CA-C	-5.06	1.46	1.52
3	A	429	ARG	CA-C	-5.06	1.45	1.52
4	B	1121	LEU	CG-CD2	-5.06	1.35	1.52
5	D	45	LEU	CB-CG	-5.06	1.43	1.53
5	D	199	TRP	CE3-CZ3	-5.06	1.23	1.38
3	A	1067	PRO	N-CD	-5.06	1.40	1.47
4	B	1014	ILE	CB-CG1	-5.06	1.43	1.53
6	E	612	ARG	C-N	-5.06	1.27	1.33
1	1	94	DT	C2-N3	-5.05	1.27	1.37
2	2	58	DA	C1'-N9	-5.05	1.36	1.46
3	A	437	GLU	CB-CG	-5.05	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	930	ARG	N-CA	-5.05	1.39	1.46
3	A	933	HIS	C-N	-5.05	1.27	1.33
1	1	104	DT	N3-C4	-5.05	1.28	1.38
3	A	1005	PRO	N-CA	-5.05	1.40	1.47
3	A	261	PHE	CA-C	-5.05	1.47	1.52
3	A	811	LYS	CA-C	-5.05	1.47	1.53
3	A	1055	ILE	CA-CB	-5.05	1.48	1.54
6	E	138	GLN	CA-CB	-5.05	1.44	1.53
3	A	588	MET	CB-CG	-5.05	1.37	1.52
3	A	676	GLU	N-CA	-5.05	1.39	1.46
3	A	1066	THR	CB-CG2	-5.05	1.35	1.52
4	B	261	ASN	CA-CB	-5.05	1.45	1.53
6	E	540	ASP	CA-CB	-5.05	1.45	1.53
3	A	446	SER	N-CA	-5.05	1.39	1.46
5	D	211	SER	CA-CB	-5.05	1.45	1.53
6	E	303	LYS	CA-CB	-5.05	1.45	1.53
3	A	761	ALA	CA-CB	-5.04	1.45	1.53
4	B	1132	GLN	CA-CB	-5.04	1.45	1.53
3	A	333	GLN	CA-C	-5.04	1.46	1.52
5	C	44	LEU	CG-CD2	-5.04	1.35	1.52
6	E	141	TYR	CE1-CZ	-5.04	1.26	1.38
1	1	95	DT	C5-C6	-5.04	1.24	1.34
3	A	835	VAL	CA-C	-5.04	1.46	1.52
3	A	957	ILE	C-N	-5.04	1.26	1.33
4	B	1017	LEU	CG-CD2	-5.04	1.35	1.52
3	A	426	HIS	CB-CG	-5.04	1.43	1.50
3	A	936	LEU	CB-CG	-5.04	1.43	1.53
5	C	117	GLU	C-N	-5.04	1.28	1.33
6	E	194	LEU	CA-CB	-5.04	1.45	1.53
3	A	845	LYS	CB-CG	-5.04	1.37	1.52
5	C	83	LYS	C-N	-5.04	1.26	1.33
3	A	374	ILE	CG1-CD1	-5.03	1.32	1.51
4	B	15	ASN	CA-C	-5.03	1.46	1.52
5	C	212	SER	C-N	-5.03	1.27	1.33
6	E	427	PRO	CG-CD	-5.03	1.33	1.50
3	A	669	LEU	CA-C	-5.03	1.45	1.52
3	A	769	LEU	CA-C	-5.03	1.46	1.52
3	A	993	ARG	CB-CG	-5.03	1.37	1.52
5	C	87	LEU	CA-CB	-5.03	1.44	1.53
6	E	545	PHE	C-N	-5.03	1.27	1.33
3	A	377	PHE	CD2-CE2	-5.03	1.23	1.38
3	A	502	TYR	C-N	-5.03	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	44	LEU	CG-CD2	-5.03	1.35	1.52
7	F	33	VAL	CA-C	-5.03	1.45	1.52
7	F	60	ARG	CA-CB	-5.03	1.45	1.53
8	G	321	ASP	C-N	-5.03	1.26	1.33
3	A	272	VAL	CB-CG1	-5.03	1.35	1.52
3	A	345	ARG	CA-C	-5.03	1.46	1.52
3	A	738	ARG	C-O	-5.03	1.17	1.24
3	A	817	VAL	CA-CB	-5.03	1.46	1.55
4	B	180	ARG	CG-CD	-5.03	1.37	1.52
1	1	99	DT	C5-C7	-5.02	1.40	1.50
3	A	703	LEU	C-N	-5.02	1.28	1.33
4	B	1144	ILE	C-N	-5.02	1.27	1.34
5	C	41	ARG	CG-CD	-5.02	1.37	1.52
5	C	221	PHE	CA-CB	-5.02	1.45	1.53
2	2	35	DA	C5-C6	-5.02	1.31	1.41
3	A	545	LEU	CA-C	-5.02	1.45	1.52
3	A	899	PHE	CD1-CE1	-5.02	1.23	1.38
4	B	1129	TYR	CA-C	-5.02	1.45	1.52
5	D	41	ARG	CG-CD	-5.02	1.37	1.52
8	G	214	ILE	CB-CG1	-5.02	1.43	1.53
5	D	83	LYS	C-N	-5.02	1.26	1.33
2	2	34	DA	C5-C4	-5.01	1.28	1.38
5	C	180	VAL	CB-CG2	-5.01	1.36	1.52
5	D	180	VAL	CB-CG2	-5.01	1.35	1.52
6	E	545	PHE	N-CA	-5.01	1.40	1.46
3	A	449	THR	C-N	-5.01	1.25	1.33
9	Y	120	MET	CG-SD	-5.01	1.68	1.80
1	1	102	DA	C5-C6	-5.01	1.31	1.41
3	A	138	VAL	CA-CB	-5.01	1.47	1.54
3	A	325	VAL	CA-CB	-5.01	1.47	1.54
6	E	388	VAL	N-CA	-5.01	1.40	1.46
1	1	91	DT	N1-C6	-5.01	1.28	1.38
5	D	48	LEU	CB-CG	-5.01	1.43	1.53
3	A	1077	LEU	CG-CD2	-5.01	1.36	1.52
4	B	1132	GLN	CG-CD	-5.01	1.39	1.52
6	E	309	ALA	CA-C	-5.01	1.46	1.52
3	A	280	LYS	CA-C	-5.01	1.46	1.52
3	A	941	ASP	C-N	-5.01	1.26	1.33
4	B	1129	TYR	CA-CB	-5.01	1.44	1.53
4	B	1209	SER	CA-C	-5.00	1.46	1.52
3	A	31	ILE	CA-CB	-5.00	1.49	1.54

All (1703) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	80	MET	N-CA-C	-20.41	86.51	112.23
5	D	80	MET	N-CA-C	-20.40	86.53	112.23
6	E	538	LEU	CA-C-N	-19.05	85.16	121.54
6	E	538	LEU	C-N-CA	-19.05	85.16	121.54
9	X	39	ASP	CA-C-N	18.48	142.94	119.84
9	X	39	ASP	C-N-CA	18.48	142.94	119.84
5	C	219	ASP	N-CA-C	-18.24	87.71	111.24
9	Y	120	MET	N-CA-C	-17.75	89.87	112.23
9	Y	120	MET	CA-CB-CG	-17.72	78.66	114.10
6	E	60	GLU	CA-C-N	-15.39	98.02	122.65
6	E	60	GLU	C-N-CA	-15.39	98.02	122.65
5	D	219	ASP	N-CA-C	-15.05	87.72	111.04
6	E	538	LEU	O-C-N	15.01	146.39	122.23
9	X	113	LYS	CD-CE-NZ	-14.50	65.49	111.90
5	D	80	MET	CB-CG-SD	14.30	155.59	112.70
5	C	80	MET	CB-CG-SD	14.29	155.57	112.70
9	Y	120	MET	N-CA-CB	14.26	132.27	110.30
6	E	307	GLN	CA-C-N	-14.23	96.62	122.38
6	E	307	GLN	C-N-CA	-14.23	96.62	122.38
3	A	1078	GLN	CA-C-N	-13.56	102.97	123.17
3	A	1078	GLN	C-N-CA	-13.56	102.97	123.17
4	B	1018	LEU	CA-CB-CG	-13.28	69.82	116.30
8	G	201	GLU	CA-C-N	-13.21	101.75	122.49
8	G	201	GLU	C-N-CA	-13.21	101.75	122.49
3	A	388	ASP	CA-C-N	-13.12	101.18	122.95
3	A	388	ASP	C-N-CA	-13.12	101.18	122.95
4	B	239	LEU	CA-CB-CG	-13.07	70.55	116.30
3	A	33	ILE	CA-C-N	-12.83	102.10	122.24
3	A	33	ILE	C-N-CA	-12.83	102.10	122.24
3	A	899	PHE	CA-C-N	-12.71	98.14	121.52
3	A	899	PHE	C-N-CA	-12.71	98.14	121.52
3	A	310	ASP	CA-C-N	-12.60	110.99	122.96
3	A	310	ASP	C-N-CA	-12.60	110.99	122.96
6	E	510	SER	CA-C-N	-12.59	97.50	121.54
6	E	510	SER	C-N-CA	-12.59	97.50	121.54
6	E	420	GLU	CA-C-N	-12.33	99.95	121.66
6	E	420	GLU	C-N-CA	-12.33	99.95	121.66
6	E	383	LEU	N-CA-C	-12.21	98.00	111.07
4	B	1222	GLU	CA-CB-CG	-12.10	89.89	114.10
3	A	179	ARG	CA-CB-CG	-12.02	90.06	114.10
3	A	814	VAL	CA-C-N	-11.98	106.27	120.88
3	A	814	VAL	C-N-CA	-11.98	106.27	120.88
6	E	425	GLY	CA-C-N	-11.94	102.54	123.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	425	GLY	C-N-CA	-11.94	102.54	123.08
3	A	47	ILE	N-CA-C	-11.76	98.00	110.23
3	A	737	THR	CA-C-N	-11.59	98.98	121.58
3	A	737	THR	C-N-CA	-11.59	98.98	121.58
6	E	50	LEU	CA-C-N	-11.53	107.36	123.96
6	E	50	LEU	C-N-CA	-11.53	107.36	123.96
3	A	791	ILE	CA-C-N	-11.50	103.56	122.54
3	A	791	ILE	C-N-CA	-11.50	103.56	122.54
6	E	116	TRP	CA-C-N	-11.43	103.67	122.65
6	E	116	TRP	C-N-CA	-11.43	103.67	122.65
8	G	201	GLU	N-CA-C	-11.31	96.56	114.09
8	G	195	ALA	CA-C-N	-11.25	104.57	122.23
8	G	195	ALA	C-N-CA	-11.25	104.57	122.23
3	A	392	PRO	CA-C-N	-11.24	99.65	121.58
3	A	392	PRO	C-N-CA	-11.24	99.65	121.58
5	D	79	ILE	CA-C-N	-11.14	101.74	120.68
5	D	79	ILE	C-N-CA	-11.14	101.74	120.68
3	A	882	ILE	CA-C-N	-11.12	101.96	121.97
3	A	882	ILE	C-N-CA	-11.12	101.96	121.97
5	C	79	ILE	CA-C-N	-11.10	101.81	120.68
5	C	79	ILE	C-N-CA	-11.10	101.81	120.68
3	A	29	ASP	CA-C-N	-11.09	104.59	122.66
3	A	29	ASP	C-N-CA	-11.09	104.59	122.66
3	A	561	ARG	CA-C-N	-11.07	104.74	122.79
3	A	561	ARG	C-N-CA	-11.07	104.74	122.79
6	E	489	LEU	CA-C-N	-10.88	103.24	121.08
6	E	489	LEU	C-N-CA	-10.88	103.24	121.08
4	B	163	PHE	CA-C-N	-10.82	104.67	120.89
4	B	163	PHE	C-N-CA	-10.82	104.67	120.89
2	2	67	DA	OP1-P-O3'	-10.80	75.61	108.00
4	B	46	ARG	CA-C-N	-10.76	105.02	120.29
4	B	46	ARG	C-N-CA	-10.76	105.02	120.29
3	A	675	THR	CA-C-N	-10.71	101.08	121.54
3	A	675	THR	C-N-CA	-10.71	101.08	121.54
3	A	396	LEU	CA-CB-CG	-10.67	78.97	116.30
5	D	170	PHE	CA-C-N	-10.60	99.50	123.15
5	D	170	PHE	C-N-CA	-10.60	99.50	123.15
3	A	438	GLY	N-CA-C	-10.59	90.73	112.34
4	B	322	SER	CA-CB-OG	-10.58	89.94	111.10
4	B	1127	MET	CA-C-N	-10.57	102.96	120.30
4	B	1127	MET	C-N-CA	-10.57	102.96	120.30
5	C	170	PHE	CA-C-N	-10.57	99.57	123.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	170	PHE	C-N-CA	-10.57	99.57	123.15
4	B	1018	LEU	CA-C-N	-10.55	100.85	121.94
4	B	1018	LEU	C-N-CA	-10.55	100.85	121.94
2	2	67	DA	O3'-P-O5'	10.49	119.74	104.00
4	B	175	SER	CA-CB-OG	-10.48	90.14	111.10
9	X	172	LEU	CB-CG-CD1	10.46	142.09	110.70
3	A	419	VAL	N-CA-C	-10.35	102.34	112.17
7	F	33	VAL	CA-C-N	-10.35	101.40	121.58
7	F	33	VAL	C-N-CA	-10.35	101.40	121.58
3	A	560	GLN	CA-C-N	-10.33	104.80	122.56
3	A	560	GLN	C-N-CA	-10.33	104.80	122.56
6	E	538	LEU	CA-C-O	-10.31	108.19	121.08
4	B	35	LYS	CA-C-N	-10.30	102.57	121.52
4	B	35	LYS	C-N-CA	-10.30	102.57	121.52
3	A	323	ARG	CB-CG-CD	-10.29	87.63	111.30
4	B	18	SER	CA-CB-OG	-10.29	90.52	111.10
9	X	65	THR	CA-C-N	-10.20	110.31	121.84
9	X	65	THR	C-N-CA	-10.20	110.31	121.84
4	B	22	THR	CA-C-N	-10.20	103.92	122.38
4	B	22	THR	C-N-CA	-10.20	103.92	122.38
5	D	64	GLU	CA-C-N	-10.20	106.69	122.49
5	D	64	GLU	C-N-CA	-10.20	106.69	122.49
6	E	513	MET	CB-CG-SD	-10.19	82.13	112.70
8	G	87	GLN	N-CA-C	-10.18	98.98	111.40
5	C	64	GLU	CA-C-N	-10.18	106.72	122.49
5	C	64	GLU	C-N-CA	-10.18	106.72	122.49
3	A	865	ILE	CG1-CB-CG2	-10.17	80.20	110.70
8	G	187	GLY	N-CA-C	-10.15	100.72	112.50
5	D	80	MET	CA-CB-CG	-10.15	93.80	114.10
5	C	80	MET	CA-CB-CG	-10.14	93.82	114.10
5	C	138	MET	CG-SD-CE	-10.13	78.62	100.90
4	B	540	ILE	CA-C-N	-10.12	102.20	121.54
4	B	540	ILE	C-N-CA	-10.12	102.20	121.54
5	D	138	MET	CG-SD-CE	-10.11	78.65	100.90
3	A	218	TYR	CA-C-O	-10.08	110.58	122.27
9	X	40	PRO	CA-N-CD	-10.06	97.92	112.00
3	A	503	ILE	CA-C-N	-10.04	112.52	123.16
3	A	503	ILE	C-N-CA	-10.04	112.52	123.16
5	D	138	MET	CB-CA-C	10.03	126.33	109.48
3	A	787	LEU	CA-CB-CG	-10.02	81.24	116.30
5	D	48	LEU	CA-CB-CG	-9.99	81.35	116.30
5	C	48	LEU	CA-CB-CG	-9.98	81.35	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	684	GLN	CA-CB-CG	-9.96	94.18	114.10
5	C	80	MET	N-CA-CB	9.96	125.64	110.30
5	D	80	MET	N-CA-CB	9.94	125.60	110.30
3	A	575	GLY	CA-C-N	-9.94	107.53	122.83
3	A	575	GLY	C-N-CA	-9.94	107.53	122.83
4	B	492	PRO	N-CA-C	-9.93	100.09	113.40
4	B	41	PHE	CA-C-N	-9.87	106.07	120.28
4	B	41	PHE	C-N-CA	-9.87	106.07	120.28
6	E	147	VAL	N-CA-C	-9.87	99.06	110.21
3	A	581	GLN	CA-CB-CG	-9.85	94.39	114.10
4	B	370	THR	OG1-CB-CG2	-9.85	89.60	109.30
3	A	617	ALA	CA-C-N	-9.84	102.39	121.58
3	A	617	ALA	C-N-CA	-9.84	102.39	121.58
3	A	983	VAL	CA-C-N	-9.82	106.33	121.66
3	A	983	VAL	C-N-CA	-9.82	106.33	121.66
5	C	49	GLU	CA-CB-CG	-9.82	94.46	114.10
5	D	49	GLU	CA-CB-CG	-9.80	94.50	114.10
3	A	608	VAL	N-CA-C	-9.77	89.03	109.34
8	G	227	ARG	CA-C-N	-9.72	102.87	122.31
8	G	227	ARG	C-N-CA	-9.72	102.87	122.31
4	B	627	GLY	N-CA-C	-9.71	98.72	115.61
6	E	480	SER	CA-C-N	-9.70	104.19	120.68
6	E	480	SER	C-N-CA	-9.70	104.19	120.68
4	B	200	LEU	CA-CB-CG	-9.69	82.38	116.30
3	A	180	ASN	N-CA-C	-9.65	103.61	114.62
3	A	329	GLY	CA-C-N	-9.62	103.81	121.52
3	A	329	GLY	C-N-CA	-9.62	103.81	121.52
4	B	488	TYR	CA-CB-CG	-9.62	96.58	113.90
6	E	489	LEU	CA-CB-CG	-9.61	82.66	116.30
4	B	250	HIS	CA-CB-CG	-9.56	104.24	113.80
3	A	1092	GLN	N-CA-C	-9.56	99.77	111.33
6	E	346	ARG	CA-C-N	-9.50	103.39	121.54
6	E	346	ARG	C-N-CA	-9.50	103.39	121.54
4	B	325	GLU	CB-CA-C	-9.50	91.46	110.17
3	A	1093	ALA	CA-C-N	-9.49	105.55	121.97
3	A	1093	ALA	C-N-CA	-9.49	105.55	121.97
4	B	1254	TYR	CA-CB-CG	9.47	130.94	113.90
3	A	975	GLY	CA-C-N	-9.45	112.16	122.27
3	A	975	GLY	C-N-CA	-9.45	112.16	122.27
3	A	446	SER	CA-CB-OG	-9.45	92.20	111.10
6	E	486	GLU	CA-C-N	-9.44	103.51	121.54
6	E	486	GLU	C-N-CA	-9.44	103.51	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	33	ILE	CG1-CB-CG2	-9.42	82.45	110.70
3	A	269	LEU	CA-CB-CG	-9.34	83.61	116.30
3	A	578	LEU	CA-C-N	-9.33	103.71	121.54
3	A	578	LEU	C-N-CA	-9.33	103.71	121.54
5	D	192	ASP	CA-C-N	-9.32	108.08	122.62
5	D	192	ASP	C-N-CA	-9.32	108.08	122.62
4	B	1221	THR	CA-C-N	-9.30	108.34	120.44
4	B	1221	THR	C-N-CA	-9.30	108.34	120.44
5	C	192	ASP	CA-C-N	-9.30	108.11	122.62
5	C	192	ASP	C-N-CA	-9.30	108.11	122.62
9	X	185	SER	O-C-N	-9.27	111.84	122.68
6	E	380	ALA	CA-C-N	-9.26	109.13	120.70
6	E	380	ALA	C-N-CA	-9.26	109.13	120.70
3	A	219	PHE	CA-C-N	-9.25	103.87	121.54
3	A	219	PHE	C-N-CA	-9.25	103.87	121.54
4	B	1244	LEU	CA-C-O	-9.23	110.56	120.71
3	A	904	GLY	N-CA-C	-9.22	101.48	112.64
4	B	610	GLU	CA-C-N	9.17	134.24	121.96
4	B	610	GLU	C-N-CA	9.17	134.24	121.96
4	B	176	SER	CA-CB-OG	-9.15	92.81	111.10
4	B	199	ARG	CA-CB-CG	-9.12	95.87	114.10
9	X	172	LEU	CD1-CG-CD2	-9.10	90.78	110.80
3	A	42	LEU	CA-CB-CG	-9.10	84.46	116.30
3	A	455	GLN	CA-C-N	-9.08	105.24	121.14
3	A	455	GLN	C-N-CA	-9.08	105.24	121.14
6	E	391	ARG	CA-C-N	-9.03	108.73	120.65
6	E	391	ARG	C-N-CA	-9.03	108.73	120.65
6	E	392	LEU	CA-CB-CG	-9.00	84.80	116.30
3	A	1003	GLN	CA-C-N	-8.94	103.09	122.67
3	A	1003	GLN	C-N-CA	-8.94	103.09	122.67
1	1	66	DG	P-O3'-C3'	-8.93	106.81	120.20
6	E	546	GLN	CA-C-N	-8.92	108.36	122.73
6	E	546	GLN	C-N-CA	-8.92	108.36	122.73
4	B	1209	SER	CA-CB-OG	-8.92	93.26	111.10
4	B	1086	GLY	C-N-CD	-8.92	88.44	125.00
3	A	963	ARG	CA-C-N	-8.91	104.52	121.54
3	A	963	ARG	C-N-CA	-8.91	104.52	121.54
3	A	522	GLU	N-CA-C	-8.91	101.34	113.18
6	E	275	LEU	CA-CB-CG	-8.89	85.17	116.30
8	G	90	GLY	N-CA-C	-8.89	101.89	112.64
4	B	196	LEU	CA-CB-CG	-8.88	85.24	116.30
9	Y	120	MET	CB-CA-C	-8.86	92.30	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	520	LEU	CA-CB-CG	-8.83	85.38	116.30
6	E	194	LEU	CA-CB-CG	-8.83	85.40	116.30
3	A	381	SER	N-CA-C	-8.75	96.15	108.23
6	E	138	GLN	CA-C-N	-8.74	107.19	121.34
6	E	138	GLN	C-N-CA	-8.74	107.19	121.34
6	E	232	ASP	N-CA-C	-8.73	101.72	111.07
3	A	1093	ALA	O-C-N	8.71	133.88	122.38
4	B	197	THR	CA-CB-OG1	-8.71	96.54	109.60
6	E	194	LEU	CA-C-N	-8.68	104.96	122.31
6	E	194	LEU	C-N-CA	-8.68	104.96	122.31
6	E	452	ARG	CA-C-N	-8.63	105.06	121.54
6	E	452	ARG	C-N-CA	-8.63	105.06	121.54
4	B	1241	ILE	CG1-CB-CG2	-8.60	84.91	110.70
3	A	265	LYS	CA-C-N	-8.59	106.90	123.13
3	A	265	LYS	C-N-CA	-8.59	106.90	123.13
4	B	325	GLU	CB-CG-CD	-8.56	98.05	112.60
8	G	104	ALA	N-CA-C	-8.53	100.61	111.02
6	E	514	VAL	CA-C-N	-8.53	104.95	121.58
6	E	514	VAL	C-N-CA	-8.53	104.95	121.58
3	A	738	ARG	CA-C-O	8.53	130.02	119.11
5	D	171	MET	CG-SD-CE	8.52	119.64	100.90
5	C	171	MET	CG-SD-CE	8.51	119.61	100.90
5	C	177	ASN	CB-CA-C	-8.50	94.84	112.44
5	D	177	ASN	CB-CA-C	-8.48	94.89	112.44
4	B	95	ILE	CA-C-N	-8.46	108.27	120.29
4	B	95	ILE	C-N-CA	-8.46	108.27	120.29
3	A	629	SER	CA-C-N	-8.46	105.38	121.54
3	A	629	SER	C-N-CA	-8.46	105.38	121.54
3	A	267	TYR	CA-C-N	-8.44	110.29	122.19
3	A	267	TYR	C-N-CA	-8.44	110.29	122.19
3	A	686	ILE	CA-CB-CG1	-8.43	96.08	110.40
3	A	385	GLN	CA-CB-CG	-8.40	97.29	114.10
6	E	244	MET	CB-CG-SD	-8.40	87.49	112.70
4	B	99	ASN	CA-C-N	-8.40	110.78	119.94
4	B	99	ASN	C-N-CA	-8.40	110.78	119.94
5	C	199	TRP	CA-C-N	-8.40	108.00	123.03
5	C	199	TRP	C-N-CA	-8.40	108.00	123.03
3	A	897	GLN	CA-C-N	-8.39	106.54	120.30
3	A	897	GLN	C-N-CA	-8.39	106.54	120.30
5	D	199	TRP	CA-C-N	-8.39	108.02	123.03
5	D	199	TRP	C-N-CA	-8.39	108.02	123.03
4	B	784	SER	N-CA-C	8.38	122.72	109.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Y	120	MET	CB-CG-SD	-8.38	87.56	112.70
3	A	502	TYR	CA-CB-CG	-8.38	98.82	113.90
8	G	317	LEU	CA-CB-CG	-8.38	86.97	116.30
3	A	959	VAL	CA-C-N	-8.38	107.58	122.15
3	A	959	VAL	C-N-CA	-8.38	107.58	122.15
9	Y	69	LEU	CA-C-N	8.38	137.92	123.01
9	Y	69	LEU	C-N-CA	8.38	137.92	123.01
5	C	138	MET	CB-CA-C	8.36	126.35	109.38
9	X	69	LEU	CA-C-N	8.36	137.88	123.01
9	X	69	LEU	C-N-CA	8.36	137.88	123.01
6	E	510	SER	CA-CB-OG	-8.35	94.39	111.10
6	E	308	GLU	CA-C-N	-8.35	109.58	120.44
6	E	308	GLU	C-N-CA	-8.35	109.58	120.44
8	G	211	THR	CA-C-N	-8.34	109.64	120.65
8	G	211	THR	C-N-CA	-8.34	109.64	120.65
4	B	1243	ARG	CA-C-N	-8.32	110.14	121.71
4	B	1243	ARG	C-N-CA	-8.32	110.14	121.71
3	A	387	MET	CB-CG-SD	-8.30	87.80	112.70
3	A	884	LEU	CA-CB-CG	-8.30	87.25	116.30
6	E	195	ARG	CA-C-N	-8.29	105.70	121.54
6	E	195	ARG	C-N-CA	-8.29	105.70	121.54
6	E	304	ARG	CA-C-N	-8.28	109.36	120.63
6	E	304	ARG	C-N-CA	-8.28	109.36	120.63
8	G	217	ALA	CA-C-N	-8.28	110.35	120.70
8	G	217	ALA	C-N-CA	-8.28	110.35	120.70
3	A	425	SER	CA-CB-OG	-8.26	94.57	111.10
3	A	937	GLN	CA-C-N	-8.25	105.49	121.58
3	A	937	GLN	C-N-CA	-8.25	105.49	121.58
6	E	229	ARG	CA-CB-CG	-8.25	97.60	114.10
3	A	526	TYR	CA-CB-CG	-8.25	99.06	113.90
3	A	960	TYR	CA-CB-CG	-8.24	99.07	113.90
3	A	452	ARG	CA-CB-CG	-8.23	97.63	114.10
6	E	481	LEU	CB-CG-CD1	-8.23	86.01	110.70
3	A	557	SER	CA-CB-OG	-8.23	94.64	111.10
6	E	296	GLU	CA-C-N	-8.22	107.13	120.86
6	E	296	GLU	C-N-CA	-8.22	107.13	120.86
4	B	84	GLU	N-CA-C	-8.21	102.42	111.36
4	B	39	LEU	CA-CB-CG	-8.20	87.59	116.30
3	A	681	ALA	CA-C-N	-8.18	107.76	121.92
3	A	681	ALA	C-N-CA	-8.18	107.76	121.92
3	A	854	GLY	CA-C-N	-8.18	109.07	122.65
3	A	854	GLY	C-N-CA	-8.18	109.07	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Y	122	MET	N-CA-CB	-8.18	97.61	110.28
4	B	250	HIS	N-CA-CB	-8.15	98.22	110.03
9	Y	202	MET	CB-CG-SD	8.15	137.14	112.70
3	A	715	THR	CA-C-N	-8.14	106.00	121.54
3	A	715	THR	C-N-CA	-8.14	106.00	121.54
3	A	578	LEU	CA-CB-CG	-8.12	87.88	116.30
3	A	1035	GLN	CA-C-N	-8.10	109.43	120.28
3	A	1035	GLN	C-N-CA	-8.10	109.43	120.28
6	E	507	ILE	CA-C-N	-8.10	102.04	121.80
6	E	507	ILE	C-N-CA	-8.10	102.04	121.80
6	E	621	GLU	CA-C-N	-8.07	105.20	121.18
6	E	621	GLU	C-N-CA	-8.07	105.20	121.18
3	A	351	MET	CA-C-N	-8.06	109.67	120.63
3	A	351	MET	C-N-CA	-8.06	109.67	120.63
3	A	998	TYR	CA-CB-CG	-8.04	99.42	113.90
6	E	300	ARG	CA-CB-CG	-8.04	98.02	114.10
3	A	833	ASN	CA-C-N	-8.02	109.96	122.87
3	A	833	ASN	C-N-CA	-8.02	109.96	122.87
8	G	204	TYR	CE1-CZ-OH	-8.02	95.85	119.90
3	A	716	SER	CA-CB-OG	-8.01	95.09	111.10
2	2	46	DT	C1'-O4'-C4'	-8.00	97.69	109.70
3	A	1079	SER	CA-CB-OG	-7.99	95.11	111.10
3	A	941	ASP	CA-C-N	-7.96	107.97	122.38
3	A	941	ASP	C-N-CA	-7.96	107.97	122.38
6	E	363	VAL	CB-CA-C	-7.96	100.73	111.80
5	D	126	TYR	CA-C-N	-7.96	107.64	121.97
5	D	126	TYR	C-N-CA	-7.96	107.64	121.97
6	E	622	ALA	CA-C-N	-7.95	106.36	121.54
6	E	622	ALA	C-N-CA	-7.95	106.36	121.54
4	B	1114	LEU	CA-CB-CG	-7.94	88.50	116.30
4	B	16	LEU	CA-CB-CG	-7.94	88.51	116.30
6	E	497	ILE	CA-C-N	-7.92	107.04	121.69
6	E	497	ILE	C-N-CA	-7.92	107.04	121.69
2	2	67	DA	P-O3'-C3'	7.91	132.07	120.20
4	B	1238	ASN	CA-CB-CG	-7.91	104.69	112.60
3	A	770	VAL	CA-C-N	-7.91	115.38	122.73
3	A	770	VAL	C-N-CA	-7.91	115.38	122.73
6	E	278	ARG	CA-C-N	-7.91	108.61	121.19
6	E	278	ARG	C-N-CA	-7.91	108.61	121.19
3	A	433	ILE	CA-C-N	-7.90	109.83	121.76
3	A	433	ILE	C-N-CA	-7.90	109.83	121.76
3	A	594	THR	CA-C-N	-7.90	106.46	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	594	THR	C-N-CA	-7.90	106.46	121.54
3	A	844	ARG	CB-CA-C	-7.88	98.74	110.24
3	A	34	GLN	CB-CG-CD	-7.87	99.22	112.60
6	E	349	LEU	CA-C-N	-7.87	108.13	122.38
6	E	349	LEU	C-N-CA	-7.87	108.13	122.38
4	B	361	ARG	N-CA-C	7.87	127.56	110.80
4	B	1130	GLN	CA-CB-CG	-7.85	98.40	114.10
3	A	29	ASP	CB-CA-C	-7.85	94.81	110.42
3	A	811	LYS	CA-C-N	-7.84	106.03	121.41
3	A	811	LYS	C-N-CA	-7.84	106.03	121.41
6	E	520	LEU	CB-CG-CD1	-7.84	87.19	110.70
3	A	251	LEU	CA-CB-CG	-7.84	88.87	116.30
6	E	362	ILE	CG1-CB-CG2	-7.84	87.19	110.70
6	E	245	VAL	CA-C-N	-7.83	109.93	122.53
6	E	245	VAL	C-N-CA	-7.83	109.93	122.53
3	A	442	GLY	CA-C-N	-7.81	108.25	122.38
3	A	442	GLY	C-N-CA	-7.81	108.25	122.38
3	A	387	MET	CA-CB-CG	-7.78	98.54	114.10
6	E	255	ASP	CA-C-N	-7.76	103.36	121.52
6	E	255	ASP	C-N-CA	-7.76	103.36	121.52
8	G	365	ILE	O-C-N	-7.73	112.90	122.57
3	A	933	HIS	CA-C-N	-7.73	111.40	119.98
3	A	933	HIS	C-N-CA	-7.73	111.40	119.98
3	A	957	ILE	CG1-CB-CG2	-7.72	87.54	110.70
3	A	931	ILE	CB-CA-C	-7.72	98.63	111.29
4	B	1223	ALA	N-CA-C	-7.70	102.01	111.33
4	B	56	LEU	CA-CB-CG	-7.70	89.35	116.30
3	A	1073	LEU	CA-C-N	-7.69	110.16	120.54
3	A	1073	LEU	C-N-CA	-7.69	110.16	120.54
5	D	40	LEU	CA-CB-CG	-7.69	89.39	116.30
3	A	851	LYS	N-CA-C	-7.69	99.40	110.24
5	C	40	LEU	CA-CB-CG	-7.68	89.41	116.30
4	B	1123	ASN	CA-CB-CG	-7.68	104.92	112.60
4	B	25	GLY	CA-C-N	-7.68	109.38	120.89
4	B	25	GLY	C-N-CA	-7.68	109.38	120.89
4	B	196	LEU	CB-CA-C	-7.68	95.15	110.42
6	E	244	MET	CA-C-N	-7.67	108.17	121.97
6	E	244	MET	C-N-CA	-7.67	108.17	121.97
8	G	113	LEU	CA-C-N	-7.66	109.42	120.29
8	G	113	LEU	C-N-CA	-7.66	109.42	120.29
9	X	172	LEU	CB-CG-CD2	-7.65	87.75	110.70
5	C	46	SER	CA-CB-OG	-7.64	95.83	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	398	HIS	CA-C-N	-7.63	110.59	122.42
3	A	398	HIS	C-N-CA	-7.63	110.59	122.42
6	E	360	SER	CA-CB-OG	-7.63	95.84	111.10
6	E	492	LEU	CA-CB-CG	-7.63	89.61	116.30
5	D	46	SER	CA-CB-OG	-7.62	95.86	111.10
3	A	558	ASN	CA-CB-CG	-7.61	104.99	112.60
6	E	472	GLN	CA-C-N	-7.61	109.90	122.39
6	E	472	GLN	C-N-CA	-7.61	109.90	122.39
9	X	171	ASP	CA-C-N	7.61	135.33	121.94
9	X	171	ASP	C-N-CA	7.61	135.33	121.94
6	E	382	GLU	CA-CB-CG	-7.59	98.92	114.10
5	D	120	VAL	CA-C-N	-7.58	108.33	121.97
5	D	120	VAL	C-N-CA	-7.58	108.33	121.97
6	E	483	SER	CA-CB-OG	-7.58	95.94	111.10
5	C	120	VAL	CA-C-N	-7.57	108.34	121.97
5	C	120	VAL	C-N-CA	-7.57	108.34	121.97
6	E	117	TYR	O-C-N	-7.57	112.68	122.37
6	E	590	TYR	CA-C-N	-7.57	109.09	123.32
6	E	590	TYR	C-N-CA	-7.57	109.09	123.32
9	Y	210	ILE	CA-C-N	-7.57	111.59	123.24
9	Y	210	ILE	C-N-CA	-7.57	111.59	123.24
3	A	577	GLY	CA-C-N	-7.56	110.59	122.23
3	A	577	GLY	C-N-CA	-7.56	110.59	122.23
3	A	958	MET	CB-CG-SD	-7.55	90.04	112.70
4	B	1240	ILE	CG1-CB-CG2	-7.55	88.05	110.70
6	E	118	LEU	CA-CB-CG	-7.54	89.90	116.30
3	A	1072	VAL	CA-C-N	-7.51	109.41	120.38
3	A	1072	VAL	C-N-CA	-7.51	109.41	120.38
3	A	1054	ALA	CA-C-N	-7.51	110.95	120.56
3	A	1054	ALA	C-N-CA	-7.51	110.95	120.56
9	Y	122	MET	CA-CB-CG	-7.51	99.09	114.10
3	A	1042	SER	CA-CB-OG	-7.50	96.09	111.10
7	F	35	VAL	CA-C-N	-7.50	109.64	120.89
7	F	35	VAL	C-N-CA	-7.50	109.64	120.89
1	1	61	DT	C4-C5-C7	-7.49	111.16	122.40
4	B	1221	THR	CA-CB-OG1	-7.49	98.37	109.60
3	A	691	MET	CB-CG-SD	-7.48	90.25	112.70
4	B	182	GLY	N-CA-C	-7.47	103.76	112.73
7	F	37	ASN	CA-CB-CG	-7.47	105.13	112.60
4	B	196	LEU	CB-CG-CD1	-7.46	88.31	110.70
6	E	448	LEU	CA-CB-CG	-7.46	90.18	116.30
9	X	43	ARG	CB-CG-CD	7.46	128.45	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1086	VAL	CA-C-N	-7.46	107.31	121.63
3	A	1086	VAL	C-N-CA	-7.46	107.31	121.63
3	A	980	LEU	CB-CG-CD1	-7.45	88.36	110.70
4	B	239	LEU	CB-CG-CD1	-7.44	88.39	110.70
4	B	90	ARG	N-CA-C	-7.42	102.35	111.33
4	B	185	ASP	CB-CA-C	-7.41	98.54	110.84
4	B	1016	GLU	CA-C-N	-7.41	108.75	120.60
4	B	1016	GLU	C-N-CA	-7.41	108.75	120.60
3	A	673	SER	CA-CB-OG	-7.40	96.30	111.10
4	B	43	TYR	CA-CB-CG	-7.40	100.58	113.90
5	C	210	LEU	CA-CB-CG	-7.38	90.46	116.30
5	D	210	LEU	CA-CB-CG	-7.38	90.48	116.30
8	G	183	LEU	CA-CB-CG	-7.38	90.49	116.30
5	D	44	LEU	CA-CB-CG	-7.36	90.55	116.30
5	C	44	LEU	CA-CB-CG	-7.36	90.55	116.30
7	F	28	ARG	N-CA-C	-7.36	103.26	111.28
4	B	904	ASP	N-CA-C	-7.35	103.26	111.28
4	B	1071	MET	N-CA-C	7.35	126.05	109.81
4	B	478	GLY	N-CA-C	-7.34	95.78	113.18
4	B	42	ARG	CB-CG-CD	-7.34	94.41	111.30
4	B	1208	ILE	CB-CA-C	-7.34	102.64	111.81
3	A	993	ARG	CA-C-N	-7.33	107.54	121.54
3	A	993	ARG	C-N-CA	-7.33	107.54	121.54
3	A	325	VAL	CA-C-N	-7.33	110.20	122.29
3	A	325	VAL	C-N-CA	-7.33	110.20	122.29
3	A	642	TYR	CA-C-N	-7.32	111.08	122.87
3	A	642	TYR	C-N-CA	-7.32	111.08	122.87
6	E	400	ASN	CA-C-N	-7.32	110.82	121.65
6	E	400	ASN	C-N-CA	-7.32	110.82	121.65
5	C	138	MET	CA-CB-CG	7.32	128.74	114.10
4	B	271	GLU	CA-C-N	-7.32	109.85	121.34
4	B	271	GLU	C-N-CA	-7.32	109.85	121.34
3	A	802	ASN	CA-CB-CG	-7.31	105.29	112.60
3	A	428	GLY	CA-C-N	-7.30	110.80	121.98
3	A	428	GLY	C-N-CA	-7.30	110.80	121.98
3	A	1040	VAL	CA-C-N	-7.29	111.04	122.49
3	A	1040	VAL	C-N-CA	-7.29	111.04	122.49
5	D	138	MET	CA-CB-CG	7.29	128.68	114.10
6	E	262	LEU	CA-CB-CG	-7.29	90.78	116.30
4	B	360	PRO	N-CA-C	7.28	127.47	112.47
6	E	481	LEU	N-CA-C	-7.28	103.06	112.23
3	A	1034	LEU	CA-CB-CG	-7.27	90.85	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	87	LEU	CB-CA-C	-7.27	100.68	110.79
4	B	526	PRO	N-CA-C	-7.26	97.50	112.47
6	E	488	ARG	CB-CA-C	-7.26	98.80	110.84
3	A	670	ALA	CA-C-N	-7.25	112.06	122.94
3	A	670	ALA	C-N-CA	-7.25	112.06	122.94
3	A	561	ARG	CB-CG-CD	-7.25	94.62	111.30
3	A	95	MET	CB-CG-SD	-7.25	90.96	112.70
6	E	494	SER	CA-CB-OG	-7.24	96.62	111.10
3	A	982	LEU	CA-CB-CG	-7.23	91.00	116.30
6	E	612	ARG	CA-C-N	-7.23	108.45	120.30
6	E	612	ARG	C-N-CA	-7.23	108.45	120.30
4	B	1019	GLU	CA-CB-CG	-7.22	99.65	114.10
8	G	285	SER	CB-CA-C	-7.22	98.07	109.70
3	A	735	GLU	N-CA-C	7.21	117.49	108.19
4	B	265	SER	CA-CB-OG	-7.21	96.68	111.10
4	B	259	PRO	CA-C-N	-7.21	107.78	121.54
4	B	259	PRO	C-N-CA	-7.21	107.78	121.54
3	A	1069	SER	CA-CB-OG	-7.20	96.69	111.10
4	B	27	ALA	CA-C-N	-7.20	111.15	120.65
4	B	27	ALA	C-N-CA	-7.20	111.15	120.65
5	D	185	ALA	N-CA-C	-7.20	95.47	110.80
5	D	80	MET	CG-SD-CE	-7.19	85.07	100.90
8	G	319	ARG	CA-C-N	-7.19	110.08	120.29
8	G	319	ARG	C-N-CA	-7.19	110.08	120.29
4	B	198	ARG	CA-C-N	-7.19	110.66	120.44
4	B	198	ARG	C-N-CA	-7.19	110.66	120.44
3	A	51	ASN	CA-C-N	-7.18	108.47	120.68
3	A	51	ASN	C-N-CA	-7.18	108.47	120.68
6	E	383	LEU	CA-C-N	-7.17	110.75	122.65
6	E	383	LEU	C-N-CA	-7.17	110.75	122.65
4	B	354	ASP	N-CA-C	-7.16	104.17	114.12
5	C	80	MET	CG-SD-CE	-7.16	85.15	100.90
3	A	487	ASP	N-CA-C	7.15	119.28	110.91
4	B	370	THR	CA-CB-CG2	-7.15	98.34	110.50
4	B	414	ASP	N-CA-C	7.15	119.04	108.60
3	A	769	LEU	CA-CB-CG	-7.15	91.28	116.30
4	B	656	ALA	O-C-N	7.15	132.10	122.59
3	A	30	LEU	N-CA-C	7.14	120.54	112.97
6	E	388	VAL	CA-C-N	-7.14	110.68	120.46
6	E	388	VAL	C-N-CA	-7.14	110.68	120.46
4	B	1227	GLY	CA-C-N	-7.14	107.91	121.54
4	B	1227	GLY	C-N-CA	-7.14	107.91	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	180	ARG	CA-CB-CG	-7.14	99.83	114.10
3	A	129	ILE	CG1-CB-CG2	-7.13	89.31	110.70
3	A	584	ARG	CA-C-N	-7.12	110.94	122.26
3	A	584	ARG	C-N-CA	-7.12	110.94	122.26
5	D	42	ARG	CA-C-N	-7.12	108.62	120.30
5	D	42	ARG	C-N-CA	-7.12	108.62	120.30
4	B	39	LEU	CB-CG-CD1	-7.12	89.35	110.70
5	C	42	ARG	CA-C-N	-7.12	108.62	120.30
5	C	42	ARG	C-N-CA	-7.12	108.62	120.30
3	A	396	LEU	CB-CG-CD1	-7.12	89.35	110.70
4	B	29	THR	CA-CB-OG1	-7.12	98.93	109.60
4	B	140	LEU	CB-CG-CD2	-7.11	89.38	110.70
5	D	179	SER	CA-CB-OG	-7.11	96.89	111.10
5	C	179	SER	CA-CB-OG	-7.10	96.89	111.10
6	E	212	GLU	CA-CB-CG	-7.10	99.90	114.10
4	B	28	ARG	CA-CB-CG	-7.10	99.91	114.10
3	A	586	SER	CB-CA-C	-7.09	96.31	110.42
3	A	340	LEU	CA-CB-CG	-7.09	91.49	116.30
4	B	481	TRP	N-CA-C	7.08	119.24	109.18
9	Y	121	LEU	CA-C-N	7.08	131.07	120.31
9	Y	121	LEU	C-N-CA	7.08	131.07	120.31
4	B	523	VAL	N-CA-C	-7.07	106.11	112.90
4	B	1149	THR	CA-C-N	-7.07	109.67	122.54
4	B	1149	THR	C-N-CA	-7.07	109.67	122.54
6	E	513	MET	CA-C-N	-7.07	111.66	120.56
6	E	513	MET	C-N-CA	-7.07	111.66	120.56
6	E	303	LYS	CA-CB-CG	-7.06	99.99	114.10
6	E	255	ASP	CA-CB-CG	-7.05	105.55	112.60
6	E	361	VAL	CA-CB-CG2	-7.05	98.42	110.40
6	E	146	VAL	CA-C-N	-7.05	109.20	120.34
6	E	146	VAL	C-N-CA	-7.05	109.20	120.34
3	A	990	ILE	CA-C-N	-7.04	108.73	121.62
3	A	990	ILE	C-N-CA	-7.04	108.73	121.62
4	B	537	ILE	N-CA-CB	-7.04	105.23	112.06
3	A	283	LEU	N-CA-C	-7.04	98.83	109.60
3	A	1006	LEU	CB-CG-CD2	-7.04	89.59	110.70
3	A	573	LEU	CB-CA-C	-7.03	96.93	109.24
3	A	365	VAL	CA-C-N	-7.03	110.03	122.48
3	A	365	VAL	C-N-CA	-7.03	110.03	122.48
3	A	1073	LEU	CB-CA-C	-7.03	96.82	110.46
4	B	1238	ASN	N-CA-CB	-7.03	98.61	110.49
6	E	280	ILE	CA-CB-CG1	-7.02	98.46	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	331	LEU	CB-CG-CD1	-7.02	89.64	110.70
3	A	38	PHE	N-CA-C	-7.01	103.24	111.03
5	D	57	ARG	CA-C-N	-7.01	112.17	120.72
5	D	57	ARG	C-N-CA	-7.01	112.17	120.72
5	C	57	ARG	CA-C-N	-7.00	112.17	120.72
5	C	57	ARG	C-N-CA	-7.00	112.17	120.72
5	D	197	GLU	CA-CB-CG	-7.00	100.09	114.10
8	G	114	GLU	CA-C-N	-7.00	107.31	121.18
8	G	114	GLU	C-N-CA	-7.00	107.31	121.18
6	E	593	VAL	N-CA-CB	-7.00	100.86	112.06
3	A	43	GLU	CA-C-N	-6.99	108.20	121.54
3	A	43	GLU	C-N-CA	-6.99	108.20	121.54
5	C	197	GLU	CA-CB-CG	-6.99	100.13	114.10
6	E	305	MET	CB-CG-SD	-6.98	91.77	112.70
8	G	191	LEU	CA-CB-CG	-6.97	91.89	116.30
3	A	882	ILE	CB-CG1-CD1	-6.95	99.20	113.80
3	A	835	VAL	CA-C-N	-6.95	113.33	122.99
3	A	835	VAL	C-N-CA	-6.95	113.33	122.99
3	A	308	GLU	CA-C-N	6.94	135.81	121.94
3	A	308	GLU	C-N-CA	6.94	135.81	121.94
3	A	253	GLY	CA-C-N	-6.93	111.21	120.63
3	A	253	GLY	C-N-CA	-6.93	111.21	120.63
4	B	1129	TYR	CA-C-N	-6.93	108.78	121.52
4	B	1129	TYR	C-N-CA	-6.93	108.78	121.52
4	B	790	LEU	CB-CG-CD2	-6.92	89.94	110.70
4	B	808	ASN	N-CA-C	6.91	118.90	111.36
3	A	420	ARG	CA-C-N	-6.91	110.72	123.01
3	A	420	ARG	C-N-CA	-6.91	110.72	123.01
8	G	315	LYS	CA-CB-CG	-6.90	100.29	114.10
3	A	92	ALA	CA-C-N	-6.90	109.55	121.97
3	A	92	ALA	C-N-CA	-6.90	109.55	121.97
4	B	30	ALA	CA-C-N	-6.90	109.33	120.86
4	B	30	ALA	C-N-CA	-6.90	109.33	120.86
6	E	257	ARG	N-CA-C	-6.90	94.56	109.81
4	B	177	TYR	CB-CA-C	-6.90	99.28	110.74
4	B	928	LEU	CA-C-N	-6.90	114.15	123.46
4	B	928	LEU	C-N-CA	-6.90	114.15	123.46
4	B	255	GLU	CA-CB-CG	-6.90	100.31	114.10
3	A	715	THR	CA-CB-OG1	-6.89	99.26	109.60
4	B	1126	GLN	CA-CB-CG	-6.89	100.31	114.10
4	B	172	TYR	CA-CB-CG	-6.89	101.51	113.90
7	F	34	GLN	CB-CG-CD	-6.89	100.89	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	285	ARG	CA-CB-CG	-6.88	100.35	114.10
4	B	322	SER	CA-C-N	-6.88	111.76	120.56
4	B	322	SER	C-N-CA	-6.88	111.76	120.56
7	F	60	ARG	N-CA-C	-6.88	102.63	111.02
4	B	418	VAL	N-CA-C	-6.87	101.70	111.17
6	E	520	LEU	CA-C-N	-6.87	111.25	122.65
6	E	520	LEU	C-N-CA	-6.87	111.25	122.65
5	C	44	LEU	CA-C-N	-6.86	109.97	122.38
5	C	44	LEU	C-N-CA	-6.86	109.97	122.38
4	B	1221	THR	N-CA-C	-6.86	102.88	111.11
3	A	1077	LEU	CA-CB-CG	-6.85	92.31	116.30
4	B	271	GLU	CA-CB-CG	-6.85	100.40	114.10
3	A	30	LEU	CA-C-N	-6.85	110.83	122.88
3	A	30	LEU	C-N-CA	-6.85	110.83	122.88
6	E	279	VAL	CA-C-N	-6.85	112.37	120.72
6	E	279	VAL	C-N-CA	-6.85	112.37	120.72
2	2	67	DA	OP2-P-O3'	6.84	128.53	108.00
3	A	1090	GLU	N-CA-CB	-6.84	98.93	110.49
4	B	238	ARG	CA-CB-CG	-6.84	100.42	114.10
5	D	44	LEU	CA-C-N	-6.84	110.01	122.38
5	D	44	LEU	C-N-CA	-6.84	110.01	122.38
3	A	48	GLU	CA-C-N	-6.83	111.55	120.44
3	A	48	GLU	C-N-CA	-6.83	111.55	120.44
6	E	515	LEU	CB-CG-CD2	-6.83	90.21	110.70
3	A	1074	MET	CA-CB-CG	-6.82	100.46	114.10
3	A	1000	LEU	CB-CA-C	-6.82	96.86	110.42
6	E	196	LEU	CA-CB-CG	-6.82	92.45	116.30
3	A	677	GLY	N-CA-C	-6.81	97.03	113.18
5	D	20	TYR	CA-CB-CG	-6.81	101.64	113.90
3	A	487	ASP	CA-C-N	-6.80	110.35	122.45
3	A	487	ASP	C-N-CA	-6.80	110.35	122.45
4	B	443	LYS	CA-C-N	-6.80	111.24	120.82
4	B	443	LYS	C-N-CA	-6.80	111.24	120.82
3	A	724	ILE	CG1-CB-CG2	-6.79	90.34	110.70
4	B	16	LEU	CD1-CG-CD2	-6.78	95.87	110.80
3	A	399	LYS	CA-C-N	-6.78	108.59	121.54
3	A	399	LYS	C-N-CA	-6.78	108.59	121.54
6	E	313	LEU	CB-CG-CD1	-6.77	90.39	110.70
3	A	669	LEU	CA-CB-CG	-6.77	92.61	116.30
4	B	1131	SER	CA-C-N	-6.76	110.56	122.26
4	B	1131	SER	C-N-CA	-6.76	110.56	122.26
6	E	387	PHE	CA-C-N	-6.76	112.04	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	387	PHE	C-N-CA	-6.76	112.04	120.56
3	A	401	ARG	CG-CD-NE	-6.75	97.14	112.00
3	A	1090	GLU	N-CA-C	6.75	125.18	110.80
3	A	399	LYS	CA-CB-CG	-6.74	100.61	114.10
8	G	102	GLU	N-CA-C	-6.74	103.17	111.33
4	B	369	ARG	N-CA-C	-6.74	105.38	112.93
3	A	26	LEU	CA-CB-CG	-6.74	92.71	116.30
3	A	736	ILE	CA-C-N	-6.74	110.97	123.03
3	A	736	ILE	C-N-CA	-6.74	110.97	123.03
6	E	587	LEU	CA-CB-CG	-6.73	92.76	116.30
4	B	562	TYR	CA-CB-CG	-6.72	101.81	113.90
3	A	333	GLN	CA-C-N	-6.72	111.28	120.28
3	A	333	GLN	C-N-CA	-6.72	111.28	120.28
3	A	738	ARG	O-C-N	-6.72	112.62	122.43
4	B	1121	LEU	CA-CB-CG	-6.71	92.80	116.30
4	B	140	LEU	CA-C-N	-6.71	112.14	121.53
4	B	140	LEU	C-N-CA	-6.71	112.14	121.53
4	B	361	ARG	CA-C-O	-6.70	110.92	120.51
8	G	87	GLN	CA-C-N	-6.70	110.77	120.29
8	G	87	GLN	C-N-CA	-6.70	110.77	120.29
4	B	617	ALA	CA-C-N	6.70	137.03	122.82
4	B	617	ALA	C-N-CA	6.70	137.03	122.82
3	A	179	ARG	CG-CD-NE	6.70	126.74	112.00
3	A	640	SER	CA-CB-OG	-6.70	97.70	111.10
6	E	565	GLU	CA-C-N	-6.69	110.56	122.74
6	E	565	GLU	C-N-CA	-6.69	110.56	122.74
4	B	534	THR	CA-C-N	-6.69	109.65	121.29
4	B	534	THR	C-N-CA	-6.69	109.65	121.29
3	A	283	LEU	CA-CB-CG	-6.67	92.97	116.30
6	E	382	GLU	CA-C-N	-6.66	111.78	120.44
6	E	382	GLU	C-N-CA	-6.66	111.78	120.44
4	B	167	LEU	CA-CB-CG	-6.66	92.99	116.30
6	E	125	ILE	N-CA-C	-6.66	103.31	110.23
8	G	197	LYS	CA-C-N	-6.65	109.40	121.69
8	G	197	LYS	C-N-CA	-6.65	109.40	121.69
9	X	212	VAL	CA-C-N	-6.64	111.38	120.28
9	X	212	VAL	C-N-CA	-6.64	111.38	120.28
4	B	222	VAL	CA-CB-CG2	-6.63	99.13	110.40
9	Y	212	VAL	CA-C-N	-6.63	111.40	120.28
9	Y	212	VAL	C-N-CA	-6.63	111.40	120.28
3	A	306	ASN	CA-C-N	-6.62	110.39	122.38
3	A	306	ASN	C-N-CA	-6.62	110.39	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	393	LEU	CA-C-N	-6.62	110.75	120.28
3	A	393	LEU	C-N-CA	-6.62	110.75	120.28
4	B	102	SER	CA-C-N	-6.62	111.91	120.65
4	B	102	SER	C-N-CA	-6.62	111.91	120.65
4	B	286	LEU	N-CA-C	-6.62	103.74	112.34
3	A	597	ASP	CB-CG-OD1	-6.61	103.19	118.40
3	A	850	ASP	CA-CB-CG	-6.61	105.99	112.60
6	E	359	ARG	CB-CA-C	-6.61	97.82	109.71
2	2	42	DT	N1-C1'-C2'	6.60	123.40	113.50
3	A	564	VAL	CA-CB-CG2	-6.60	99.18	110.40
6	E	362	ILE	CB-CG1-CD1	-6.60	99.94	113.80
3	A	1041	LYS	CA-C-N	-6.59	109.04	121.63
3	A	1041	LYS	C-N-CA	-6.59	109.04	121.63
5	D	87	LEU	CB-CA-C	-6.59	100.62	110.24
4	B	601	GLY	CA-C-O	-6.59	115.73	122.25
4	B	653	TYR	CA-C-N	-6.59	110.11	121.97
4	B	653	TYR	C-N-CA	-6.59	110.11	121.97
4	B	940	ILE	CA-C-N	-6.58	112.21	121.55
4	B	940	ILE	C-N-CA	-6.58	112.21	121.55
3	A	734	GLU	CA-C-N	-6.56	110.01	122.08
3	A	734	GLU	C-N-CA	-6.56	110.01	122.08
6	E	491	MET	CB-CG-SD	-6.55	93.04	112.70
3	A	396	LEU	CA-C-N	-6.55	109.02	121.54
3	A	396	LEU	C-N-CA	-6.55	109.02	121.54
3	A	991	HIS	CA-C-N	-6.55	109.63	121.62
3	A	991	HIS	C-N-CA	-6.55	109.63	121.62
6	E	475	VAL	CA-C-N	-6.54	111.82	122.82
6	E	475	VAL	C-N-CA	-6.54	111.82	122.82
5	D	171	MET	CB-CG-SD	-6.54	93.08	112.70
6	E	140	VAL	CA-CB-CG2	-6.54	99.28	110.40
4	B	690	GLU	CA-C-N	-6.54	109.91	121.29
4	B	690	GLU	C-N-CA	-6.54	109.91	121.29
6	E	483	SER	CA-C-N	-6.54	111.01	120.29
6	E	483	SER	C-N-CA	-6.54	111.01	120.29
3	A	719	ILE	CA-C-N	-6.54	110.53	121.64
3	A	719	ILE	C-N-CA	-6.54	110.53	121.64
4	B	37	LYS	N-CA-C	-6.54	103.42	111.33
5	C	171	MET	CB-CG-SD	-6.54	93.09	112.70
4	B	36	LEU	CA-C-N	-6.53	111.43	120.38
4	B	36	LEU	C-N-CA	-6.53	111.43	120.38
4	B	38	ASP	CA-CB-CG	-6.53	106.07	112.60
6	E	613	VAL	CA-C-N	-6.53	112.54	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	613	VAL	C-N-CA	-6.53	112.54	120.70
3	A	396	LEU	CB-CG-CD2	-6.53	91.12	110.70
6	E	278	ARG	CA-CB-CG	-6.52	101.05	114.10
3	A	902	LEU	CB-CG-CD1	-6.52	91.13	110.70
3	A	1000	LEU	CB-CG-CD1	-6.52	91.14	110.70
6	E	245	VAL	N-CA-C	-6.52	95.77	109.34
5	D	177	ASN	N-CA-C	6.51	119.81	109.65
4	B	36	LEU	CB-CG-CD2	-6.51	91.18	110.70
4	B	656	ALA	CB-CA-C	-6.51	97.47	110.42
3	A	964	THR	CA-C-N	-6.50	108.67	121.41
3	A	964	THR	C-N-CA	-6.50	108.67	121.41
3	A	674	SER	CA-CB-OG	-6.50	98.11	111.10
6	E	277	ARG	CB-CG-CD	-6.50	96.36	111.30
3	A	29	ASP	N-CA-CB	6.49	121.46	110.49
4	B	1143	VAL	CA-C-N	-6.49	110.28	121.97
4	B	1143	VAL	C-N-CA	-6.49	110.28	121.97
5	C	177	ASN	N-CA-C	6.49	119.78	109.65
5	C	203	SER	CA-CB-OG	-6.49	98.12	111.10
4	B	1128	VAL	CA-C-N	-6.49	109.89	120.72
4	B	1128	VAL	C-N-CA	-6.49	109.89	120.72
6	E	276	TYR	CA-C-N	-6.49	110.94	120.28
6	E	276	TYR	C-N-CA	-6.49	110.94	120.28
4	B	35	LYS	CG-CD-CE	6.48	126.21	111.30
7	F	60	ARG	CB-CG-CD	-6.48	96.39	111.30
5	D	203	SER	CA-CB-OG	-6.48	98.14	111.10
4	B	1118	GLN	CA-CB-CG	-6.47	101.16	114.10
5	C	105	THR	N-CA-C	6.47	119.74	109.65
6	E	494	SER	CA-C-N	-6.46	112.64	122.21
6	E	494	SER	C-N-CA	-6.46	112.64	122.21
8	G	322	LEU	CB-CG-CD1	-6.46	91.31	110.70
8	G	133	TRP	CA-CB-CG	-6.46	101.33	113.60
7	F	29	TYR	CB-CA-C	-6.46	100.65	110.92
9	Y	34	ILE	N-CA-C	-6.46	106.70	112.90
5	D	105	THR	N-CA-C	6.46	119.72	109.65
3	A	80	SER	CA-CB-OG	-6.45	98.19	111.10
3	A	959	VAL	CA-CB-CG2	-6.45	99.43	110.40
4	B	992	ASP	CA-C-N	-6.45	111.72	122.17
4	B	992	ASP	C-N-CA	-6.45	111.72	122.17
3	A	683	GLY	N-CA-C	-6.44	100.51	111.27
6	E	339	GLU	CB-CG-CD	-6.44	101.65	112.60
4	B	239	LEU	CA-C-N	-6.44	111.97	121.24
4	B	239	LEU	C-N-CA	-6.44	111.97	121.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	852	MET	CA-C-N	-6.44	112.16	122.53
3	A	852	MET	C-N-CA	-6.44	112.16	122.53
5	D	45	LEU	CA-C-N	-6.43	109.35	121.63
5	D	45	LEU	C-N-CA	-6.43	109.35	121.63
5	C	45	LEU	CA-C-N	-6.42	109.36	121.63
5	C	45	LEU	C-N-CA	-6.42	109.36	121.63
3	A	434	GLU	CA-CB-CG	-6.42	101.26	114.10
9	X	182	ALA	O-C-N	-6.42	115.32	122.12
3	A	445	GLY	CA-C-N	-6.42	109.28	121.54
3	A	445	GLY	C-N-CA	-6.42	109.28	121.54
3	A	720	GLU	N-CA-C	6.42	118.84	108.32
4	B	1224	ALA	CA-C-N	-6.42	111.27	121.34
4	B	1224	ALA	C-N-CA	-6.42	111.27	121.34
4	B	38	ASP	CA-C-N	-6.42	111.87	120.79
4	B	38	ASP	C-N-CA	-6.42	111.87	120.79
4	B	167	LEU	CA-C-N	-6.41	111.41	123.27
4	B	167	LEU	C-N-CA	-6.41	111.41	123.27
2	2	42	DT	C1'-O4'-C4'	-6.41	100.09	109.70
3	A	370	LEU	CB-CG-CD1	-6.41	91.47	110.70
2	2	66	DA	C4-N9-C1'	-6.41	117.44	127.05
3	A	559	MET	CG-SD-CE	-6.41	86.81	100.90
3	A	703	LEU	CB-CG-CD1	-6.40	91.49	110.70
7	F	37	ASN	CA-C-N	-6.40	112.20	120.65
7	F	37	ASN	C-N-CA	-6.40	112.20	120.65
6	E	195	ARG	CA-CB-CG	-6.40	101.30	114.10
3	A	442	GLY	N-CA-C	-6.39	107.30	115.42
4	B	1141	ILE	CG1-CB-CG2	-6.39	91.53	110.70
4	B	1221	THR	CB-CA-C	-6.39	100.59	110.81
4	B	708	LEU	CA-C-N	-6.39	103.86	122.38
4	B	708	LEU	C-N-CA	-6.39	103.86	122.38
1	1	118	DG	N9-C1'-C2'	6.38	123.07	113.50
3	A	768	ILE	CA-C-N	-6.38	110.54	120.88
3	A	768	ILE	C-N-CA	-6.38	110.54	120.88
3	A	1006	LEU	CA-C-N	-6.38	108.91	121.41
3	A	1006	LEU	C-N-CA	-6.38	108.91	121.41
3	A	223	ILE	N-CA-C	-6.37	96.09	109.34
3	A	394	ALA	CA-C-N	-6.37	109.38	121.54
3	A	394	ALA	C-N-CA	-6.37	109.38	121.54
6	E	50	LEU	CA-CB-CG	-6.36	94.04	116.30
6	E	484	GLN	CA-CB-CG	-6.36	101.38	114.10
6	E	419	LEU	CB-CG-CD2	-6.36	91.63	110.70
3	A	1066	THR	CA-CB-OG1	-6.35	100.07	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	610	VAL	N-CA-C	-6.35	105.50	112.80
4	B	196	LEU	CB-CG-CD2	-6.35	91.65	110.70
6	E	623	LEU	CA-CB-CG	-6.35	94.08	116.30
6	E	512	ASP	CA-CB-CG	-6.35	106.25	112.60
6	E	562	GLY	N-CA-C	-6.34	98.15	113.18
8	G	324	LYS	CA-C-N	-6.34	111.77	120.46
8	G	324	LYS	C-N-CA	-6.34	111.77	120.46
4	B	22	THR	CA-CB-OG1	-6.34	100.10	109.60
8	G	196	GLU	CA-C-N	-6.33	112.67	122.16
8	G	196	GLU	C-N-CA	-6.33	112.67	122.16
5	D	81	ARG	CA-C-N	-6.32	110.15	120.71
5	D	81	ARG	C-N-CA	-6.32	110.15	120.71
4	B	621	TYR	N-CA-C	6.32	119.54	109.24
5	C	81	ARG	CA-C-N	-6.32	110.17	120.71
5	C	81	ARG	C-N-CA	-6.32	110.17	120.71
9	X	167	GLY	CA-C-N	-6.32	114.96	122.22
9	X	167	GLY	C-N-CA	-6.32	114.96	122.22
1	1	118	DG	C3'-C2'-C1'	-6.31	92.14	101.60
2	2	51	DT	C1'-O4'-C4'	-6.30	100.25	109.70
9	Y	167	GLY	CA-C-N	-6.30	114.98	122.22
9	Y	167	GLY	C-N-CA	-6.30	114.98	122.22
3	A	676	GLU	CA-C-N	-6.30	109.07	121.41
3	A	676	GLU	C-N-CA	-6.30	109.07	121.41
5	D	19	HIS	CA-C-N	6.30	133.57	121.54
5	D	19	HIS	C-N-CA	6.30	133.57	121.54
2	2	42	DT	C3'-C2'-C1'	-6.29	92.16	101.60
8	G	290	ILE	N-CA-C	6.29	116.40	110.30
4	B	200	LEU	CB-CG-CD2	-6.28	91.85	110.70
6	E	505	PRO	CA-N-CD	-6.28	103.20	112.00
6	E	310	VAL	CB-CA-C	-6.28	100.99	111.29
3	A	56	ILE	CA-C-O	-6.28	115.02	121.67
3	A	719	ILE	CA-CB-CG1	-6.28	99.73	110.40
6	E	619	ILE	CB-CA-C	-6.26	101.02	111.29
3	A	557	SER	CA-C-N	-6.26	111.92	120.44
3	A	557	SER	C-N-CA	-6.26	111.92	120.44
3	A	1073	LEU	CB-CG-CD2	-6.26	91.91	110.70
5	C	81	ARG	CA-CB-CG	-6.26	101.58	114.10
6	E	428	VAL	CA-C-N	-6.26	113.55	122.94
6	E	428	VAL	C-N-CA	-6.26	113.55	122.94
3	A	562	GLN	CA-C-N	-6.26	113.85	122.30
3	A	562	GLN	C-N-CA	-6.26	113.85	122.30
3	A	334	ASN	CA-C-N	-6.25	111.25	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	334	ASN	C-N-CA	-6.25	111.25	120.38
9	Y	121	LEU	CA-CB-CG	6.25	138.17	116.30
5	D	81	ARG	CA-CB-CG	-6.25	101.61	114.10
5	D	84	GLU	CA-C-N	-6.25	110.73	121.97
5	D	84	GLU	C-N-CA	-6.25	110.73	121.97
5	D	141	ARG	CA-CB-CG	-6.24	101.62	114.10
4	B	79	ARG	CB-CG-CD	-6.24	96.95	111.30
3	A	973	THR	CB-CA-C	-6.24	96.60	110.19
5	C	84	GLU	CA-C-N	-6.24	110.75	121.97
5	C	84	GLU	C-N-CA	-6.24	110.75	121.97
3	A	980	LEU	N-CA-CB	-6.23	99.95	110.49
5	C	141	ARG	CA-CB-CG	-6.23	101.64	114.10
6	E	145	TYR	CA-C-N	-6.23	112.20	122.67
6	E	145	TYR	C-N-CA	-6.23	112.20	122.67
5	D	168	SER	CA-CB-OG	-6.23	98.64	111.10
5	C	168	SER	CA-CB-OG	-6.22	98.65	111.10
4	B	483	LEU	CA-C-N	-6.22	110.47	121.29
4	B	483	LEU	C-N-CA	-6.22	110.47	121.29
8	G	136	ALA	CA-C-N	-6.22	110.78	121.97
8	G	136	ALA	C-N-CA	-6.22	110.78	121.97
4	B	1014	ILE	CB-CA-C	-6.21	103.75	111.70
4	B	256	VAL	CA-C-N	-6.21	115.49	123.19
4	B	256	VAL	C-N-CA	-6.21	115.49	123.19
4	B	272	ILE	CA-C-N	-6.21	109.68	121.54
4	B	272	ILE	C-N-CA	-6.21	109.68	121.54
9	Y	217	THR	N-CA-C	6.21	120.70	112.25
4	B	1242	GLY	CA-C-N	-6.21	109.74	121.66
4	B	1242	GLY	C-N-CA	-6.21	109.74	121.66
5	D	202	GLY	CA-C-N	-6.21	109.89	122.31
5	D	202	GLY	C-N-CA	-6.21	109.89	122.31
5	C	169	ILE	CA-CB-CG1	-6.21	99.85	110.40
6	E	544	ALA	CA-C-N	-6.20	110.36	120.71
6	E	544	ALA	C-N-CA	-6.20	110.36	120.71
6	E	87	GLU	CA-C-N	-6.20	110.47	121.81
6	E	87	GLU	C-N-CA	-6.20	110.47	121.81
3	A	1085	ALA	CA-C-N	-6.19	110.82	121.97
3	A	1085	ALA	C-N-CA	-6.19	110.82	121.97
3	A	281	LEU	CA-CB-CG	-6.19	94.62	116.30
3	A	288	THR	CA-C-N	-6.19	110.82	121.97
3	A	288	THR	C-N-CA	-6.19	110.82	121.97
3	A	510	VAL	CA-C-N	-6.19	108.32	121.32
3	A	510	VAL	C-N-CA	-6.19	108.32	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	616	THR	N-CA-CB	-6.19	100.02	110.49
5	C	202	GLY	CA-C-N	-6.19	109.93	122.31
5	C	202	GLY	C-N-CA	-6.19	109.93	122.31
3	A	515	GLU	N-CA-C	6.19	119.58	109.24
3	A	346	ILE	CA-C-N	-6.19	110.15	120.30
3	A	346	ILE	C-N-CA	-6.19	110.15	120.30
6	E	144	SER	CA-C-N	-6.18	112.47	122.36
6	E	144	SER	C-N-CA	-6.18	112.47	122.36
6	E	311	ASP	CA-CB-CG	-6.18	106.42	112.60
3	A	441	ALA	CA-C-N	-6.18	113.07	122.28
3	A	441	ALA	C-N-CA	-6.18	113.07	122.28
3	A	675	THR	CB-CA-C	-6.18	97.17	110.45
3	A	449	THR	CA-C-N	-6.18	110.57	122.06
3	A	449	THR	C-N-CA	-6.18	110.57	122.06
3	A	599	VAL	CA-C-N	-6.18	114.48	123.00
3	A	599	VAL	C-N-CA	-6.18	114.48	123.00
3	A	376	GLU	CB-CG-CD	-6.17	102.10	112.60
3	A	1078	GLN	CB-CG-CD	-6.17	102.11	112.60
3	A	617	ALA	N-CA-C	6.17	121.74	113.72
5	D	169	ILE	CA-CB-CG1	-6.17	99.92	110.40
3	A	397	THR	CA-CB-OG1	-6.16	100.36	109.60
4	B	210	ARG	CA-C-N	-6.16	109.78	121.54
4	B	210	ARG	C-N-CA	-6.16	109.78	121.54
6	E	454	ILE	CA-C-N	-6.16	110.47	120.87
6	E	454	ILE	C-N-CA	-6.16	110.47	120.87
4	B	423	LEU	CA-CB-CG	6.15	137.84	116.30
6	E	623	LEU	CB-CG-CD2	-6.15	92.25	110.70
4	B	608	GLY	N-CA-C	6.15	127.76	113.18
6	E	296	GLU	CA-CB-CG	-6.15	101.80	114.10
4	B	653	TYR	CA-CB-CG	6.15	124.97	113.90
9	X	39	ASP	O-C-N	6.15	127.06	120.85
6	E	142	PHE	CA-C-N	-6.14	110.71	120.17
6	E	142	PHE	C-N-CA	-6.14	110.71	120.17
4	B	1148	MET	CB-CG-SD	-6.14	94.28	112.70
5	D	51	THR	CA-C-N	-6.14	110.67	122.09
5	D	51	THR	C-N-CA	-6.14	110.67	122.09
2	2	53	DT	C1'-O4'-C4'	-6.14	100.50	109.70
5	C	174	ARG	CA-CB-CG	6.14	126.38	114.10
3	A	29	ASP	CA-CB-CG	-6.13	106.47	112.60
5	C	51	THR	CA-C-N	-6.13	110.68	122.09
5	C	51	THR	C-N-CA	-6.13	110.68	122.09
9	X	79	SER	N-CA-C	-6.13	104.86	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1065	GLY	CA-C-N	-6.13	99.03	121.95
3	A	1065	GLY	C-N-CA	-6.13	99.03	121.95
5	D	176	VAL	CG1-CB-CG2	-6.13	97.32	110.80
5	D	174	ARG	CA-CB-CG	6.12	126.34	114.10
3	A	384	SER	CA-C-N	-6.12	108.47	121.32
3	A	384	SER	C-N-CA	-6.12	108.47	121.32
4	B	723	ARG	CA-C-N	-6.12	109.86	121.54
4	B	723	ARG	C-N-CA	-6.12	109.86	121.54
6	E	464	PHE	CA-C-N	-6.12	113.69	122.93
6	E	464	PHE	C-N-CA	-6.12	113.69	122.93
3	A	34	GLN	CA-C-N	-6.12	111.65	120.82
3	A	34	GLN	C-N-CA	-6.12	111.65	120.82
3	A	266	ARG	CA-C-N	-6.12	110.68	121.87
3	A	266	ARG	C-N-CA	-6.12	110.68	121.87
5	C	176	VAL	CG1-CB-CG2	-6.11	97.35	110.80
4	B	1070	ALA	N-CA-C	6.11	120.50	112.13
3	A	705	SER	N-CA-C	-6.11	101.92	110.35
4	B	164	ARG	N-CA-C	-6.10	101.58	111.04
5	C	194	LEU	CA-CB-CG	-6.10	94.95	116.30
1	1	61	DT	C5-C4-O4	-6.10	113.45	122.60
4	B	1241	ILE	CB-CG1-CD1	-6.10	101.00	113.80
4	B	277	VAL	CA-C-N	-6.09	111.63	122.42
4	B	277	VAL	C-N-CA	-6.09	111.63	122.42
5	D	168	SER	N-CA-C	6.09	117.41	108.14
5	D	194	LEU	CA-CB-CG	-6.09	94.97	116.30
4	B	65	LEU	CA-CB-CG	6.09	137.62	116.30
5	C	168	SER	N-CA-C	6.09	117.40	108.14
6	E	348	ASN	CA-C-N	-6.08	104.93	122.15
6	E	348	ASN	C-N-CA	-6.08	104.93	122.15
8	G	111	LEU	CA-C-N	-6.08	112.13	120.28
8	G	111	LEU	C-N-CA	-6.08	112.13	120.28
7	F	32	THR	CA-CB-OG1	-6.07	100.49	109.60
9	X	181	GLU	CA-C-N	-6.05	112.17	120.28
9	X	181	GLU	C-N-CA	-6.05	112.17	120.28
5	D	204	ILE	CA-C-N	-6.05	111.19	120.86
5	D	204	ILE	C-N-CA	-6.05	111.19	120.86
3	A	79	TYR	CA-C-N	-6.04	111.94	120.82
3	A	79	TYR	C-N-CA	-6.04	111.94	120.82
5	D	82	MET	CG-SD-CE	-6.04	87.61	100.90
6	E	389	ILE	CG1-CB-CG2	-6.04	92.58	110.70
3	A	237	GLU	N-CA-C	-6.04	104.70	111.28
3	A	1050	GLU	CA-C-N	-6.03	112.69	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1050	GLU	C-N-CA	-6.03	112.69	120.65
2	2	35	DA	O5'-P-OP1	-6.03	90.91	109.00
3	A	638	THR	CB-CA-C	-6.03	100.33	112.99
5	C	82	MET	CG-SD-CE	-6.02	87.65	100.90
4	B	135	SER	N-CA-C	-6.02	104.63	111.07
3	A	559	MET	CA-C-N	-6.02	111.59	120.38
3	A	559	MET	C-N-CA	-6.02	111.59	120.38
4	B	270	LYS	CA-C-N	-6.02	112.62	120.44
4	B	270	LYS	C-N-CA	-6.02	112.62	120.44
4	B	42	ARG	CA-C-N	-6.01	112.62	120.44
4	B	42	ARG	C-N-CA	-6.01	112.62	120.44
5	D	210	LEU	CB-CG-CD2	-6.01	92.65	110.70
8	G	192	ILE	CA-C-N	-6.01	112.42	120.54
8	G	192	ILE	C-N-CA	-6.01	112.42	120.54
3	A	453	VAL	CA-CB-CG2	-6.01	100.19	110.40
3	A	1074	MET	CA-C-N	-6.01	112.72	120.65
3	A	1074	MET	C-N-CA	-6.01	112.72	120.65
4	B	1151	LYS	CA-CB-CG	-6.01	102.08	114.10
6	E	89	CYS	CA-CB-SG	-6.00	100.59	114.40
4	B	65	LEU	CB-CG-CD2	-6.00	92.69	110.70
4	B	1041	GLY	CA-C-N	-6.00	110.04	120.97
4	B	1041	GLY	C-N-CA	-6.00	110.04	120.97
5	C	210	LEU	CB-CG-CD2	-6.00	92.69	110.70
3	A	35	ARG	CA-C-N	-6.00	112.64	120.44
3	A	35	ARG	C-N-CA	-6.00	112.64	120.44
5	D	194	LEU	CB-CG-CD1	-6.00	92.70	110.70
3	A	769	LEU	CA-C-N	-6.00	113.70	122.58
3	A	769	LEU	C-N-CA	-6.00	113.70	122.58
5	C	204	ILE	CA-C-N	-6.00	111.26	120.86
5	C	204	ILE	C-N-CA	-6.00	111.26	120.86
7	F	34	GLN	CA-C-N	-6.00	110.68	120.64
7	F	34	GLN	C-N-CA	-6.00	110.68	120.64
7	F	28	ARG	CA-C-N	-5.99	112.46	120.79
7	F	28	ARG	C-N-CA	-5.99	112.46	120.79
4	B	15	ASN	CA-C-N	-5.99	112.46	120.79
4	B	15	ASN	C-N-CA	-5.99	112.46	120.79
3	A	397	THR	CA-C-N	-5.99	113.20	122.49
3	A	397	THR	C-N-CA	-5.99	113.20	122.49
6	E	516	GLY	N-CA-C	-5.99	98.98	113.18
3	A	432	PRO	CA-C-N	-5.99	111.19	121.97
3	A	432	PRO	C-N-CA	-5.99	111.19	121.97
3	A	1073	LEU	CB-CG-CD1	-5.99	92.74	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	194	LEU	CB-CG-CD1	-5.99	92.73	110.70
8	G	315	LYS	CA-C-N	-5.99	111.21	120.31
8	G	315	LYS	C-N-CA	-5.99	111.21	120.31
3	A	956	LYS	CA-C-N	-5.98	114.89	123.03
3	A	956	LYS	C-N-CA	-5.98	114.89	123.03
3	A	333	GLN	CB-CG-CD	-5.98	102.44	112.60
6	E	306	LEU	CD1-CG-CD2	-5.98	97.65	110.80
3	A	221	LYS	CD-CE-NZ	-5.97	92.78	111.90
5	C	217	LEU	CA-CB-CG	-5.97	95.39	116.30
3	A	561	ARG	CB-CA-C	-5.97	99.74	110.37
8	G	115	ARG	CA-C-N	-5.97	112.95	120.77
8	G	115	ARG	C-N-CA	-5.97	112.95	120.77
5	D	21	SER	CA-C-N	-5.97	111.74	120.75
5	D	21	SER	C-N-CA	-5.97	111.74	120.75
6	E	385	GLN	CB-CG-CD	-5.97	102.45	112.60
5	D	217	LEU	CA-CB-CG	-5.97	95.41	116.30
6	E	228	LEU	CB-CG-CD1	-5.96	92.81	110.70
8	G	219	THR	CA-CB-OG1	-5.96	100.65	109.60
3	A	705	SER	CB-CA-C	-5.96	98.42	111.71
6	E	88	ARG	CA-C-N	-5.96	111.75	120.75
6	E	88	ARG	C-N-CA	-5.96	111.75	120.75
7	F	21	LEU	CA-C-N	-5.96	113.82	122.28
7	F	21	LEU	C-N-CA	-5.96	113.82	122.28
3	A	52	SER	CA-CB-OG	-5.95	99.20	111.10
5	D	201	ASN	N-CA-C	-5.94	105.13	112.38
3	A	601	VAL	CA-C-N	-5.94	110.20	121.54
3	A	601	VAL	C-N-CA	-5.94	110.20	121.54
5	D	19	HIS	CA-C-O	-5.94	112.60	119.61
4	B	208	ILE	CA-C-N	-5.94	112.28	121.18
4	B	208	ILE	C-N-CA	-5.94	112.28	121.18
3	A	555	MET	CA-CB-CG	-5.93	102.23	114.10
8	G	365	ILE	N-CA-CB	-5.93	101.45	111.23
3	A	837	ARG	CA-C-N	-5.93	113.70	122.23
3	A	837	ARG	C-N-CA	-5.93	113.70	122.23
3	A	1033	THR	CA-CB-OG1	-5.93	100.71	109.60
6	E	306	LEU	CA-CB-CG	-5.92	95.56	116.30
3	A	395	GLU	CB-CA-C	-5.92	98.64	110.42
5	C	201	ASN	N-CA-C	-5.92	105.16	112.38
2	2	37	DT	C3'-C2'-C1'	-5.92	92.73	101.60
3	A	958	MET	CA-CB-CG	-5.92	102.27	114.10
6	E	566	SER	CA-C-N	-5.91	111.00	121.29
6	E	566	SER	C-N-CA	-5.91	111.00	121.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	35	LYS	CB-CG-CD	5.91	124.89	111.30
5	C	141	ARG	CB-CG-CD	-5.91	97.71	111.30
5	D	141	ARG	CB-CG-CD	-5.91	97.72	111.30
6	E	463	ALA	CA-C-N	-5.91	109.48	121.18
6	E	463	ALA	C-N-CA	-5.91	109.48	121.18
3	A	167	PRO	CA-C-N	-5.90	112.60	120.63
3	A	167	PRO	C-N-CA	-5.90	112.60	120.63
3	A	980	LEU	CA-C-N	-5.90	113.55	122.81
3	A	980	LEU	C-N-CA	-5.90	113.55	122.81
3	A	842	GLN	CB-CG-CD	-5.89	102.58	112.60
4	B	419	LYS	N-CA-CB	5.89	115.52	109.51
3	A	31	ILE	CA-C-N	-5.89	111.15	120.63
3	A	31	ILE	C-N-CA	-5.89	111.15	120.63
3	A	31	ILE	CB-CA-C	-5.88	104.47	111.65
6	E	453	ALA	CA-C-N	-5.88	115.47	123.12
6	E	453	ALA	C-N-CA	-5.88	115.47	123.12
6	E	493	ALA	CA-C-N	-5.88	110.30	121.54
6	E	493	ALA	C-N-CA	-5.88	110.30	121.54
3	A	259	SER	N-CA-C	-5.88	103.85	111.02
4	B	65	LEU	N-CA-CB	-5.88	100.56	110.49
6	E	104	GLY	CA-C-N	-5.87	111.18	122.09
6	E	104	GLY	C-N-CA	-5.87	111.18	122.09
5	D	177	ASN	CA-C-N	-5.86	112.02	122.45
5	D	177	ASN	C-N-CA	-5.86	112.02	122.45
9	Y	137	ILE	N-CA-C	-5.86	105.02	110.53
5	C	177	ASN	CA-C-N	-5.86	112.02	122.45
5	C	177	ASN	C-N-CA	-5.86	112.02	122.45
6	E	314	ILE	CA-C-N	-5.86	112.69	121.72
6	E	314	ILE	C-N-CA	-5.86	112.69	121.72
3	A	576	THR	CA-CB-OG1	-5.86	100.81	109.60
6	E	231	ILE	CA-CB-CG1	-5.86	100.44	110.40
5	C	49	GLU	CB-CG-CD	-5.85	102.65	112.60
5	D	49	GLU	CB-CG-CD	-5.85	102.65	112.60
9	X	178	ALA	N-CA-C	-5.85	104.09	111.11
3	A	722	TYR	N-CA-C	5.85	119.69	112.03
3	A	675	THR	CA-CB-OG1	-5.84	100.83	109.60
3	A	789	ARG	CB-CG-CD	-5.84	97.86	111.30
4	B	966	ILE	N-CA-CB	-5.84	106.81	112.65
4	B	209	ILE	CA-CB-CG1	-5.84	100.47	110.40
3	A	78	LYS	CA-CB-CG	-5.83	102.44	114.10
3	A	974	ILE	CB-CA-C	-5.83	102.83	111.80
4	B	508	GLY	N-CA-C	-5.83	104.44	112.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	419	LEU	CA-C-N	-5.83	110.66	122.31
6	E	419	LEU	C-N-CA	-5.83	110.66	122.31
6	E	620	GLN	CB-CG-CD	-5.83	102.69	112.60
3	A	103	ASN	N-CA-C	5.82	123.20	110.80
6	E	345	PHE	CA-C-N	-5.82	110.31	121.94
6	E	345	PHE	C-N-CA	-5.82	110.31	121.94
4	B	2	ILE	CA-C-N	-5.81	111.82	120.94
4	B	2	ILE	C-N-CA	-5.81	111.82	120.94
3	A	635	ILE	CA-C-N	-5.80	110.45	121.54
3	A	635	ILE	C-N-CA	-5.80	110.45	121.54
9	X	64	ILE	N-CA-C	-5.80	101.28	109.63
3	A	327	SER	CA-CB-OG	-5.80	99.50	111.10
5	C	168	SER	CB-CA-C	-5.80	100.52	110.95
5	D	168	SER	CB-CA-C	-5.80	100.52	110.95
3	A	1073	LEU	N-CA-CB	5.79	119.30	110.14
4	B	829	ARG	CA-C-N	-5.79	114.04	122.44
4	B	829	ARG	C-N-CA	-5.79	114.04	122.44
3	A	371	VAL	CA-C-N	-5.79	110.48	121.54
3	A	371	VAL	C-N-CA	-5.79	110.48	121.54
3	A	686	ILE	CG1-CB-CG2	-5.79	93.32	110.70
9	Y	96	THR	N-CA-C	-5.79	97.02	109.81
9	X	183	ILE	O-C-N	5.79	126.25	121.85
9	Y	122	MET	CB-CG-SD	-5.79	95.34	112.70
8	G	87	GLN	N-CA-CB	5.79	118.69	110.13
9	X	183	ILE	CA-C-N	5.78	132.74	121.41
9	X	183	ILE	C-N-CA	5.78	132.74	121.41
3	A	976	VAL	CA-CB-CG2	-5.78	100.57	110.40
3	A	850	ASP	N-CA-C	5.77	117.85	108.26
1	1	97	DT	C4'-C3'-O3'	-5.77	101.35	110.00
6	E	563	ASP	CA-C-N	-5.77	111.59	121.97
6	E	563	ASP	C-N-CA	-5.77	111.59	121.97
9	X	96	THR	N-CA-C	-5.76	97.07	109.81
4	B	188	LEU	CA-C-N	-5.75	109.79	121.18
4	B	188	LEU	C-N-CA	-5.75	109.79	121.18
3	A	882	ILE	CB-CA-C	-5.75	101.48	110.52
3	A	803	SER	CA-CB-OG	-5.75	99.60	111.10
3	A	545	LEU	CB-CG-CD2	-5.75	93.45	110.70
8	G	196	GLU	CA-CB-CG	-5.75	102.60	114.10
3	A	976	VAL	N-CA-C	-5.74	101.53	109.46
4	B	170	THR	CA-CB-OG1	-5.74	100.99	109.60
6	E	500	PRO	CA-C-N	-5.74	111.98	122.38
6	E	500	PRO	C-N-CA	-5.74	111.98	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	G	186	GLU	CA-CB-CG	-5.74	102.62	114.10
3	A	422	ILE	CA-CB-CG1	-5.74	100.64	110.40
3	A	899	PHE	N-CA-C	-5.74	105.02	111.28
8	G	185	GLN	CA-C-N	-5.74	112.52	120.38
8	G	185	GLN	C-N-CA	-5.74	112.52	120.38
8	G	264	THR	N-CA-C	-5.74	105.38	112.38
3	A	347	ILE	CA-CB-CG1	-5.73	100.66	110.40
4	B	195	TYR	CA-C-N	-5.72	110.61	121.54
4	B	195	TYR	C-N-CA	-5.72	110.61	121.54
9	X	184	GLY	N-CA-C	-5.72	99.61	113.18
2	2	5	DC	C3'-C2'-C1'	-5.72	93.02	101.60
3	A	721	LYS	CA-C-O	-5.72	114.50	121.36
6	E	319	ARG	CA-CB-CG	-5.72	102.67	114.10
6	E	615	TYR	N-CA-CB	-5.72	100.83	110.49
8	G	185	GLN	CA-CB-CG	-5.71	102.67	114.10
3	A	165	LEU	CA-C-N	-5.71	111.56	122.13
3	A	165	LEU	C-N-CA	-5.71	111.56	122.13
9	Y	217	THR	CA-C-N	-5.71	113.27	122.24
9	Y	217	THR	C-N-CA	-5.71	113.27	122.24
3	A	35	ARG	CG-CD-NE	-5.71	99.44	112.00
8	G	88	GLU	CB-CG-CD	-5.71	102.89	112.60
3	A	32	GLU	CA-CB-CG	-5.71	102.68	114.10
3	A	604	THR	CA-C-N	-5.71	112.29	122.45
3	A	604	THR	C-N-CA	-5.71	112.29	122.45
4	B	902	HIS	CA-CB-CG	-5.71	108.09	113.80
3	A	964	THR	CA-CB-OG1	-5.71	101.04	109.60
3	A	598	VAL	CG1-CB-CG2	-5.70	98.25	110.80
5	D	79	ILE	N-CA-C	-5.70	103.68	111.89
4	B	37	LYS	CD-CE-NZ	-5.70	93.66	111.90
4	B	183	LEU	CA-CB-CG	-5.70	96.35	116.30
3	A	403	SER	CA-CB-OG	-5.70	99.70	111.10
3	A	735	GLU	CB-CA-C	-5.70	102.07	114.10
3	A	1052	LEU	CD1-CG-CD2	-5.70	98.26	110.80
3	A	501	GLY	N-CA-C	-5.70	99.68	113.18
3	A	942	GLU	N-CA-C	-5.70	106.10	113.16
3	A	837	ARG	CB-CG-CD	-5.69	98.20	111.30
3	A	1037	LEU	CB-CG-CD1	-5.69	93.62	110.70
4	B	171	GLU	CB-CA-C	-5.69	101.39	110.84
5	C	79	ILE	N-CA-C	-5.69	103.69	111.89
6	E	423	ILE	CG1-CB-CG2	-5.69	93.63	110.70
3	A	832	ALA	CA-C-N	-5.69	115.67	122.44
3	A	832	ALA	C-N-CA	-5.69	115.67	122.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	919	GLY	N-CA-C	5.69	123.84	115.08
4	B	522	VAL	N-CA-C	-5.68	100.50	108.80
4	B	910	ILE	CA-C-N	-5.68	111.50	120.60
4	B	910	ILE	C-N-CA	-5.68	111.50	120.60
3	A	1074	MET	CG-SD-CE	-5.68	88.41	100.90
4	B	491	PRO	N-CA-C	5.67	117.62	110.70
8	G	129	ARG	CG-CD-NE	5.67	124.48	112.00
4	B	74	ARG	CA-CB-CG	-5.67	102.75	114.10
6	E	425	GLY	N-CA-C	-5.67	108.11	115.59
6	E	499	SER	CA-CB-OG	-5.67	99.76	111.10
5	D	211	SER	CA-CB-OG	-5.66	99.77	111.10
3	A	866	LEU	CA-CB-CG	-5.66	96.49	116.30
3	A	589	VAL	CA-CB-CG2	-5.66	100.78	110.40
4	B	31	VAL	CA-C-N	-5.66	113.18	120.65
4	B	31	VAL	C-N-CA	-5.66	113.18	120.65
6	E	259	MET	CG-SD-CE	-5.65	88.47	100.90
3	A	1042	SER	CA-C-N	-5.65	106.16	122.15
3	A	1042	SER	C-N-CA	-5.65	106.16	122.15
6	E	61	ARG	CA-C-O	5.65	126.17	119.56
3	A	959	VAL	CG1-CB-CG2	-5.65	98.37	110.80
3	A	847	GLN	CA-CB-CG	-5.65	102.81	114.10
5	C	211	SER	CA-CB-OG	-5.64	99.81	111.10
5	D	180	VAL	CA-C-N	-5.64	113.95	122.81
5	D	180	VAL	C-N-CA	-5.64	113.95	122.81
3	A	1071	LYS	CA-CB-CG	-5.64	102.83	114.10
8	G	314	SER	CA-CB-OG	-5.64	99.83	111.10
3	A	941	ASP	CA-CB-CG	-5.63	106.97	112.60
4	B	869	SER	N-CA-C	5.63	117.83	108.20
4	B	1114	LEU	N-CA-C	-5.63	104.83	110.97
6	E	541	VAL	CA-CB-CG1	-5.63	100.83	110.40
4	B	1254	TYR	N-CA-CB	-5.63	100.93	110.50
4	B	1126	GLN	CB-CG-CD	-5.63	103.03	112.60
1	1	120	DT	C3'-C2'-C1'	-5.62	93.16	101.60
4	B	539	ILE	CG1-CB-CG2	-5.62	93.83	110.70
5	D	162	ASP	N-CA-C	-5.62	106.81	113.38
1	1	118	DG	C4-N9-C1'	-5.62	118.57	127.00
4	B	1228	LYS	CB-CG-CD	-5.62	98.38	111.30
7	F	38	ARG	CB-CG-CD	-5.62	98.38	111.30
3	A	934	GLY	CA-C-N	-5.62	113.14	120.44
3	A	934	GLY	C-N-CA	-5.62	113.14	120.44
4	B	219	GLY	CA-C-N	-5.62	111.74	122.13
4	B	219	GLY	C-N-CA	-5.62	111.74	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	G	261	GLU	N-CA-C	-5.61	105.24	111.36
3	A	1086	VAL	CA-CB-CG1	-5.61	100.86	110.40
6	E	473	MET	CA-C-N	-5.61	111.92	121.85
6	E	473	MET	C-N-CA	-5.61	111.92	121.85
3	A	616	THR	OG1-CB-CG2	5.61	120.52	109.30
4	B	32	MET	CA-CB-CG	-5.61	102.89	114.10
3	A	512	TYR	CA-CB-CG	-5.61	103.81	113.90
3	A	1003	GLN	CB-CG-CD	-5.61	103.07	112.60
3	A	284	SER	CA-C-N	-5.60	111.76	122.13
3	A	284	SER	C-N-CA	-5.60	111.76	122.13
3	A	574	VAL	CG1-CB-CG2	-5.60	98.48	110.80
6	E	252	ILE	CA-CB-CG1	-5.60	100.88	110.40
3	A	449	THR	CB-CA-C	-5.60	100.45	110.70
4	B	173	ILE	CA-CB-CG1	-5.60	100.88	110.40
4	B	711	GLY	CA-C-N	-5.60	112.76	120.71
4	B	711	GLY	C-N-CA	-5.60	112.76	120.71
7	F	50	ALA	N-CA-C	-5.60	101.76	110.10
6	E	224	LEU	N-CA-C	-5.60	104.82	111.03
3	A	488	LEU	CB-CG-CD1	-5.59	93.91	110.70
4	B	198	ARG	CB-CG-CD	-5.59	98.43	111.30
3	A	1039	THR	CA-CB-OG1	-5.59	101.22	109.60
4	B	240	LEU	CB-CG-CD2	-5.59	93.94	110.70
4	B	656	ALA	CA-C-O	-5.59	112.52	120.51
4	B	1244	LEU	CB-CG-CD1	-5.59	93.94	110.70
5	C	176	VAL	CA-C-N	-5.59	112.25	123.09
5	C	176	VAL	C-N-CA	-5.59	112.25	123.09
4	B	1070	ALA	CA-C-N	5.58	135.43	121.80
4	B	1070	ALA	C-N-CA	5.58	135.43	121.80
3	A	1055	ILE	CG1-CB-CG2	-5.58	93.96	110.70
3	A	553	ALA	CA-C-N	-5.58	113.04	120.79
3	A	553	ALA	C-N-CA	-5.58	113.04	120.79
4	B	223	ARG	CB-CA-C	-5.58	99.19	110.17
5	C	115	PRO	N-CA-C	-5.58	101.07	110.21
6	E	393	ILE	CA-CB-CG1	-5.58	100.92	110.40
5	D	176	VAL	CA-C-N	-5.57	112.28	123.09
5	D	176	VAL	C-N-CA	-5.57	112.28	123.09
3	A	548	ASP	CB-CA-C	-5.57	98.25	110.67
5	D	49	GLU	N-CA-C	5.57	118.80	109.95
8	G	102	GLU	N-CA-CB	5.57	118.41	110.06
3	A	679	GLU	CA-CB-CG	-5.56	102.97	114.10
3	A	816	ASP	CB-CA-C	-5.56	98.30	111.65
4	B	330	LEU	CB-CG-CD2	-5.56	94.02	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	520	THR	CA-CB-OG1	-5.55	101.27	109.60
7	F	29	TYR	CA-CB-CG	5.55	123.89	113.90
3	A	816	ASP	N-CA-C	5.55	116.69	108.86
6	E	173	GLN	N-CA-C	-5.55	103.75	111.30
4	B	399	PRO	N-CA-C	5.55	123.90	112.47
6	E	311	ASP	CA-C-N	-5.55	112.85	120.28
6	E	311	ASP	C-N-CA	-5.55	112.85	120.28
9	X	64	ILE	CA-C-N	-5.54	112.24	120.94
9	X	64	ILE	C-N-CA	-5.54	112.24	120.94
4	B	179	ALA	CA-C-N	-5.54	113.24	120.44
4	B	179	ALA	C-N-CA	-5.54	113.24	120.44
3	A	515	GLU	CA-CB-CG	-5.54	103.02	114.10
5	C	49	GLU	N-CA-C	5.54	118.75	109.95
1	1	117	DG	C1'-O4'-C4'	-5.54	101.40	109.70
3	A	1076	GLU	CA-C-N	-5.53	113.07	120.54
3	A	1076	GLU	C-N-CA	-5.53	113.07	120.54
3	A	49	GLU	CA-C-N	-5.53	113.11	120.79
3	A	49	GLU	C-N-CA	-5.53	113.11	120.79
6	E	498	LEU	CB-CG-CD1	-5.53	94.12	110.70
3	A	169	ARG	CG-CD-NE	-5.53	99.85	112.00
4	B	134	ILE	N-CA-C	-5.53	97.85	109.34
8	G	188	SER	CA-CB-OG	-5.53	100.05	111.10
6	E	473	MET	CA-CB-CG	-5.52	103.06	114.10
8	G	258	THR	CA-C-O	-5.52	115.12	121.19
6	E	106	ILE	CA-CB-CG2	-5.52	101.12	110.50
3	A	386	PHE	CA-C-N	-5.52	112.76	121.86
3	A	386	PHE	C-N-CA	-5.52	112.76	121.86
4	B	239	LEU	CB-CA-C	-5.52	100.15	110.36
1	1	70	DC	P-O3'-C3'	-5.51	111.93	120.20
6	E	103	MET	CA-C-N	-5.51	110.60	121.41
6	E	103	MET	C-N-CA	-5.51	110.60	121.41
3	A	1061	ILE	O-C-N	-5.51	116.66	121.57
6	E	521	THR	CA-CB-OG1	-5.51	101.33	109.60
6	E	583	SER	CA-C-N	-5.51	110.74	120.99
6	E	583	SER	C-N-CA	-5.51	110.74	120.99
3	A	592	SER	CA-C-N	-5.51	113.38	120.65
3	A	592	SER	C-N-CA	-5.51	113.38	120.65
4	B	1001	ARG	CB-CG-CD	-5.50	98.65	111.30
7	F	22	ILE	CB-CA-C	-5.50	104.35	111.88
6	E	302	GLU	CA-CB-CG	-5.49	103.11	114.10
3	A	383	LEU	CA-C-N	-5.49	113.78	122.23
3	A	383	LEU	C-N-CA	-5.49	113.78	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	109	VAL	CA-C-N	-5.48	113.65	120.56
4	B	109	VAL	C-N-CA	-5.48	113.65	120.56
2	2	51	DT	C3'-C2'-C1'	-5.48	93.38	101.60
6	E	306	LEU	CB-CG-CD2	-5.48	94.26	110.70
3	A	609	ARG	N-CA-CB	-5.48	101.23	110.49
4	B	16	LEU	N-CA-C	-5.47	104.34	111.02
6	E	511	GLN	CB-CG-CD	-5.47	103.30	112.60
3	A	217	GLU	N-CA-C	-5.47	104.18	111.02
5	C	216	ILE	CA-CB-CG1	-5.47	101.10	110.40
4	B	194	GLY	N-CA-C	-5.47	106.16	112.83
4	B	444	ASP	CB-CA-C	-5.47	101.37	109.90
3	A	992	ALA	CA-C-N	-5.46	113.09	121.40
3	A	992	ALA	C-N-CA	-5.46	113.09	121.40
6	E	566	SER	CA-CB-OG	-5.46	100.17	111.10
4	B	777	LYS	CA-C-N	5.46	127.91	120.54
4	B	777	LYS	C-N-CA	5.46	127.91	120.54
6	E	321	ARG	CA-CB-CG	-5.46	103.18	114.10
9	X	42	GLU	CA-C-N	-5.46	112.73	122.07
9	X	42	GLU	C-N-CA	-5.46	112.73	122.07
3	A	447	LEU	CB-CG-CD1	-5.45	94.34	110.70
5	D	216	ILE	CA-CB-CG1	-5.45	101.13	110.40
3	A	1074	MET	N-CA-C	-5.45	104.57	111.11
3	A	759	ILE	CA-C-N	-5.45	110.73	121.41
3	A	759	ILE	C-N-CA	-5.45	110.73	121.41
3	A	762	TRP	CA-CB-CG	-5.45	103.24	113.60
4	B	982	ILE	CG1-CB-CG2	-5.45	94.35	110.70
6	E	142	PHE	CA-CB-CG	-5.45	108.35	113.80
3	A	730	LYS	N-CA-C	-5.45	106.71	113.19
3	A	388	ASP	CA-CB-CG	-5.45	107.15	112.60
6	E	305	MET	CG-SD-CE	-5.45	88.92	100.90
3	A	881	ASP	N-CA-C	5.44	122.40	110.80
6	E	450	GLU	CA-CB-CG	-5.44	103.22	114.10
3	A	37	SER	CA-C-N	-5.44	113.23	120.63
3	A	37	SER	C-N-CA	-5.44	113.23	120.63
3	A	1049	ASN	CA-C-N	-5.44	111.90	120.60
3	A	1049	ASN	C-N-CA	-5.44	111.90	120.60
4	B	1124	GLU	CA-CB-CG	-5.43	103.23	114.10
3	A	1074	MET	CB-CG-SD	-5.43	96.40	112.70
3	A	573	LEU	CB-CG-CD1	-5.43	94.41	110.70
3	A	618	SER	N-CA-C	-5.43	106.61	113.18
3	A	1032	TYR	N-CA-C	-5.43	105.26	111.07
6	E	118	LEU	CB-CG-CD1	-5.43	94.42	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	307	LEU	CA-C-N	-5.42	113.02	120.28
3	A	307	LEU	C-N-CA	-5.42	113.02	120.28
3	A	1051	ALA	N-CA-C	-5.42	105.06	110.97
5	D	174	ARG	CG-CD-NE	5.42	123.92	112.00
3	A	523	GLN	CB-CA-C	5.42	120.28	112.05
4	B	1124	GLU	CA-C-N	-5.42	113.73	120.56
4	B	1124	GLU	C-N-CA	-5.42	113.73	120.56
3	A	1052	LEU	CA-CB-CG	-5.42	97.35	116.30
3	A	994	SER	N-CA-C	-5.41	99.27	110.80
6	E	308	GLU	CB-CG-CD	-5.41	103.40	112.60
3	A	964	THR	CB-CA-C	-5.41	99.65	110.42
6	E	310	VAL	CA-C-N	-5.41	113.27	120.79
6	E	310	VAL	C-N-CA	-5.41	113.27	120.79
2	2	63	DC	P-O3'-C3'	-5.41	112.09	120.20
4	B	860	LYS	CA-CB-CG	-5.40	103.30	114.10
4	B	34	ASP	CA-C-N	-5.40	112.49	120.38
4	B	34	ASP	C-N-CA	-5.40	112.49	120.38
4	B	26	THR	CA-CB-OG1	-5.40	101.50	109.60
5	C	174	ARG	CG-CD-NE	5.39	123.87	112.00
5	D	200	THR	CA-CB-OG1	-5.39	101.51	109.60
3	A	851	LYS	CB-CG-CD	5.39	123.70	111.30
6	E	386	PRO	CA-N-CD	-5.39	104.45	112.00
6	E	480	SER	CA-CB-OG	-5.39	100.32	111.10
3	A	842	GLN	N-CA-CB	-5.39	101.39	110.49
3	A	337	ARG	CA-C-N	-5.38	111.47	120.30
3	A	337	ARG	C-N-CA	-5.38	111.47	120.30
4	B	29	THR	CB-CA-C	-5.38	102.20	110.81
9	Y	207	LYS	N-CA-C	-5.38	103.58	111.17
3	A	904	GLY	CA-C-N	-5.38	113.07	120.28
3	A	904	GLY	C-N-CA	-5.38	113.07	120.28
4	B	24	TYR	CA-C-N	-5.38	111.91	121.48
4	B	24	TYR	C-N-CA	-5.38	111.91	121.48
6	E	400	ASN	N-CA-C	-5.38	101.50	109.94
3	A	323	ARG	CA-C-N	-5.37	113.51	122.21
3	A	323	ARG	C-N-CA	-5.37	113.51	122.21
5	D	78	ILE	CA-C-N	-5.37	111.89	120.86
5	D	78	ILE	C-N-CA	-5.37	111.89	120.86
3	A	30	LEU	CB-CG-CD2	-5.37	94.60	110.70
3	A	844	ARG	CA-CB-CG	-5.37	103.36	114.10
3	A	1034	LEU	CB-CG-CD2	-5.37	94.60	110.70
8	G	257	PRO	N-CA-C	-5.37	106.41	113.65
1	1	97	DT	O4'-C1'-N1	-5.37	100.35	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	140	VAL	CA-CB-CG1	-5.37	101.28	110.40
5	C	200	THR	CA-CB-OG1	-5.36	101.56	109.60
3	A	1043	ASP	N-CA-C	5.36	120.31	113.18
3	A	329	GLY	N-CA-C	-5.36	100.49	113.18
3	A	962	GLY	CA-C-N	-5.36	112.69	120.29
3	A	962	GLY	C-N-CA	-5.36	112.69	120.29
8	G	123	LYS	CA-C-N	-5.35	112.37	121.85
8	G	123	LYS	C-N-CA	-5.35	112.37	121.85
6	E	509	PRO	CA-C-N	-5.35	115.16	121.90
6	E	509	PRO	C-N-CA	-5.35	115.16	121.90
3	A	705	SER	CA-CB-OG	-5.35	100.40	111.10
3	A	884	LEU	CB-CG-CD1	-5.35	94.65	110.70
3	A	805	ARG	CG-CD-NE	-5.35	100.23	112.00
4	B	1225	ILE	CA-C-N	-5.34	113.95	122.29
4	B	1225	ILE	C-N-CA	-5.34	113.95	122.29
3	A	504	ILE	N-CA-C	5.34	115.84	111.62
4	B	898	LEU	CA-CB-CG	5.34	135.00	116.30
5	C	78	ILE	CA-C-N	-5.34	111.94	120.86
5	C	78	ILE	C-N-CA	-5.34	111.94	120.86
6	E	170	ILE	N-CA-C	-5.34	105.33	110.72
6	E	60	GLU	CA-CB-CG	-5.34	103.43	114.10
3	A	938	GLU	CA-CB-CG	-5.33	103.43	114.10
3	A	351	MET	CA-CB-CG	5.33	124.76	114.10
6	E	339	GLU	CB-CA-C	-5.33	99.81	110.42
3	A	142	VAL	CA-CB-CG2	-5.33	101.34	110.40
3	A	393	LEU	CB-CG-CD2	-5.32	94.73	110.70
8	G	219	THR	CA-CB-CG2	-5.32	101.46	110.50
3	A	30	LEU	CA-CB-CG	-5.32	97.69	116.30
3	A	31	ILE	CB-CG1-CD1	-5.32	102.63	113.80
4	B	111	THR	N-CA-C	-5.32	102.65	111.37
4	B	519	HIS	O-C-N	-5.32	115.52	122.59
6	E	239	SER	N-CA-C	5.32	117.14	108.63
5	C	208	GLU	CA-C-N	-5.32	113.63	120.65
5	C	208	GLU	C-N-CA	-5.32	113.63	120.65
3	A	881	ASP	CA-CB-CG	-5.31	107.29	112.60
3	A	130	ILE	CA-CB-CG1	-5.31	101.37	110.40
3	A	50	LEU	CA-CB-CG	-5.31	97.72	116.30
8	G	343	LEU	N-CA-C	-5.31	106.75	113.23
3	A	1050	GLU	CA-CB-CG	-5.31	103.49	114.10
6	E	35	VAL	CA-CB-CG2	-5.31	101.38	110.40
3	A	348	ARG	N-CA-C	-5.30	104.75	111.11
5	D	208	GLU	CA-C-N	-5.30	113.65	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	D	208	GLU	C-N-CA	-5.30	113.65	120.65
6	E	452	ARG	CA-CB-CG	-5.30	103.49	114.10
8	G	184	ILE	CA-C-N	-5.30	113.55	120.44
8	G	184	ILE	C-N-CA	-5.30	113.55	120.44
3	A	815	VAL	CA-C-N	-5.30	114.00	122.53
3	A	815	VAL	C-N-CA	-5.30	114.00	122.53
4	B	278	ALA	CA-C-N	-5.30	114.00	122.53
4	B	278	ALA	C-N-CA	-5.30	114.00	122.53
5	D	213	ALA	N-CA-C	-5.30	105.19	110.97
3	A	143	ARG	CA-C-N	-5.30	103.77	122.15
3	A	143	ARG	C-N-CA	-5.30	103.77	122.15
3	A	764	GLU	CA-C-N	-5.30	112.79	122.38
3	A	764	GLU	C-N-CA	-5.30	112.79	122.38
4	B	1145	VAL	CA-C-N	-5.29	113.39	120.54
4	B	1145	VAL	C-N-CA	-5.29	113.39	120.54
3	A	83	GLU	CA-C-N	-5.29	112.66	120.28
3	A	83	GLU	C-N-CA	-5.29	112.66	120.28
6	E	61	ARG	CA-C-N	-5.29	116.27	122.14
6	E	61	ARG	C-N-CA	-5.29	116.27	122.14
3	A	973	THR	CA-CB-OG1	-5.29	101.67	109.60
2	2	44	DA	C5'-C4'-C3'	-5.28	106.98	114.90
4	B	1147	GLN	CA-C-N	-5.28	112.37	121.66
4	B	1147	GLN	C-N-CA	-5.28	112.37	121.66
5	C	213	ALA	N-CA-C	-5.28	105.21	110.97
3	A	725	GLU	CA-CB-CG	-5.28	103.55	114.10
4	B	325	GLU	CA-CB-CG	5.28	124.66	114.10
6	E	616	ASN	CA-C-N	-5.28	113.21	120.28
6	E	616	ASN	C-N-CA	-5.28	113.21	120.28
1	1	79	DA	C1'-O4'-C4'	-5.28	101.79	109.70
3	A	223	ILE	CA-C-N	-5.28	114.40	122.21
3	A	223	ILE	C-N-CA	-5.28	114.40	122.21
3	A	771	GLY	CA-C-N	-5.28	113.66	122.21
3	A	771	GLY	C-N-CA	-5.28	113.66	122.21
6	E	305	MET	CB-CA-C	-5.28	102.77	110.95
4	B	252	LYS	CB-CG-CD	-5.27	99.17	111.30
6	E	471	ASP	CA-C-N	-5.27	112.63	121.75
6	E	471	ASP	C-N-CA	-5.27	112.63	121.75
6	E	212	GLU	CB-CG-CD	-5.27	103.64	112.60
9	Y	67	ALA	CA-C-O	-5.27	115.82	121.56
4	B	332	MET	CB-CG-SD	-5.26	96.91	112.70
4	B	1098	PHE	N-CA-C	-5.26	106.99	113.41
3	A	680	LEU	CB-CG-CD2	-5.26	94.93	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	502	THR	CA-CB-CG2	-5.26	101.56	110.50
3	A	147	VAL	CA-C-N	-5.25	112.66	121.75
3	A	147	VAL	C-N-CA	-5.25	112.66	121.75
6	E	140	VAL	CG1-CB-CG2	-5.25	99.25	110.80
3	A	486	ASP	N-CA-C	-5.24	105.04	111.75
4	B	1072	PRO	N-CA-C	5.24	123.27	112.47
3	A	808	ASN	CA-CB-CG	-5.24	107.36	112.60
4	B	375	ASP	CA-C-O	-5.24	115.55	121.05
5	D	82	MET	N-CA-C	-5.24	105.01	111.40
4	B	197	THR	CA-C-N	-5.24	112.74	120.28
4	B	197	THR	C-N-CA	-5.24	112.74	120.28
4	B	603	PHE	CA-C-N	-5.24	115.16	123.12
4	B	603	PHE	C-N-CA	-5.24	115.16	123.12
4	B	1225	ILE	CA-CB-CG1	-5.24	101.49	110.40
6	E	299	VAL	CG1-CB-CG2	-5.24	99.28	110.80
3	A	585	ASP	CA-CB-CG	-5.24	107.36	112.60
3	A	565	PRO	N-CA-C	-5.23	101.69	112.47
6	E	141	TYR	CA-CB-CG	-5.23	104.48	113.90
5	C	82	MET	N-CA-C	-5.23	105.02	111.40
6	E	481	LEU	CA-CB-CG	-5.23	97.99	116.30
3	A	866	LEU	CB-CG-CD1	-5.23	95.02	110.70
3	A	400	ARG	CB-CG-CD	-5.22	99.28	111.30
3	A	521	PRO	CA-C-N	-5.22	107.36	122.15
3	A	521	PRO	C-N-CA	-5.22	107.36	122.15
3	A	298	LEU	CB-CA-C	5.22	119.56	110.68
6	E	613	VAL	CG1-CB-CG2	-5.22	99.31	110.80
3	A	1052	LEU	CB-CG-CD2	-5.22	95.05	110.70
5	C	85	VAL	CA-CB-CG2	-5.22	101.53	110.40
6	E	614	ILE	CB-CA-C	-5.22	105.29	111.81
3	A	290	ARG	CG-CD-NE	-5.21	100.54	112.00
3	A	370	LEU	CA-CB-CG	-5.21	98.06	116.30
5	D	85	VAL	CA-CB-CG2	-5.21	101.54	110.40
8	G	204	TYR	OH-CZ-CE2	5.21	135.52	119.90
4	B	1052	ILE	CA-CB-CG1	-5.21	101.55	110.40
3	A	373	ALA	CA-C-N	-5.20	113.30	120.74
3	A	373	ALA	C-N-CA	-5.20	113.30	120.74
1	1	72	DT	C3'-C2'-C1'	-5.20	93.80	101.60
4	B	183	LEU	CB-CG-CD1	-5.20	95.12	110.70
3	A	182	LEU	CB-CG-CD2	-5.19	95.12	110.70
3	A	423	HIS	CA-CB-CG	-5.19	108.61	113.80
3	A	261	PHE	CA-C-N	-5.19	111.71	121.63
3	A	261	PHE	C-N-CA	-5.19	111.71	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	187	ALA	CA-C-N	-5.19	113.96	122.79
4	B	187	ALA	C-N-CA	-5.19	113.96	122.79
6	E	482	GLU	CA-C-N	-5.19	112.29	120.60
6	E	482	GLU	C-N-CA	-5.19	112.29	120.60
3	A	134	GLU	CA-C-N	-5.19	114.06	122.36
3	A	134	GLU	C-N-CA	-5.19	114.06	122.36
3	A	882	ILE	CG1-CB-CG2	-5.19	95.13	110.70
5	C	65	PHE	CA-CB-CG	-5.19	108.61	113.80
1	1	121	DG	O5'-P-OP1	-5.19	93.44	109.00
4	B	39	LEU	CB-CA-C	-5.19	102.67	110.92
4	B	201	VAL	O-C-N	-5.19	116.75	121.94
3	A	307	LEU	CB-CG-CD2	-5.18	95.15	110.70
4	B	73	ILE	CG1-CB-CG2	-5.18	95.15	110.70
4	B	105	LEU	N-CA-C	-5.18	105.08	111.40
6	E	480	SER	CB-CA-C	-5.18	100.11	110.42
5	D	46	SER	N-CA-C	-5.17	108.72	114.62
6	E	390	ASN	CA-C-N	-5.17	112.32	120.60
6	E	390	ASN	C-N-CA	-5.17	112.32	120.60
5	C	212	SER	CA-C-N	-5.17	113.82	120.65
5	C	212	SER	C-N-CA	-5.17	113.82	120.65
3	A	431	CYS	CA-CB-SG	-5.17	102.50	114.40
4	B	680	ILE	N-CA-C	-5.17	98.58	109.34
6	E	504	ARG	CA-CB-CG	-5.17	103.76	114.10
3	A	721	LYS	N-CA-C	-5.17	102.10	110.32
6	E	282	ARG	CA-C-N	-5.17	111.67	121.54
6	E	282	ARG	C-N-CA	-5.17	111.67	121.54
9	X	65	THR	N-CA-CB	5.17	117.61	110.17
5	C	46	SER	N-CA-C	-5.17	108.73	114.62
6	E	62	ILE	CA-C-N	-5.17	114.41	122.42
6	E	62	ILE	C-N-CA	-5.17	114.41	122.42
3	A	690	TYR	CA-C-N	-5.16	109.20	121.80
3	A	690	TYR	C-N-CA	-5.16	109.20	121.80
9	Y	202	MET	CA-CB-CG	5.16	124.43	114.10
4	B	175	SER	N-CA-CB	-5.16	101.77	110.49
5	D	65	PHE	CA-CB-CG	-5.16	108.64	113.80
6	E	489	LEU	CB-CG-CD2	-5.16	95.22	110.70
3	A	1090	GLU	CA-CB-CG	-5.16	103.78	114.10
4	B	94	VAL	N-CA-C	-5.16	98.61	109.34
6	E	102	ARG	CA-C-N	-5.16	112.83	121.75
6	E	102	ARG	C-N-CA	-5.16	112.83	121.75
3	A	719	ILE	CB-CG1-CD1	-5.15	102.98	113.80
3	A	379	GLY	CA-C-N	-5.15	111.73	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	379	GLY	C-N-CA	-5.15	111.73	121.63
4	B	1145	VAL	CG1-CB-CG2	-5.15	99.47	110.80
4	B	1144	ILE	CB-CG1-CD1	-5.15	102.98	113.80
5	D	41	ARG	CA-C-N	-5.15	113.63	120.79
5	D	41	ARG	C-N-CA	-5.15	113.63	120.79
5	D	166	ILE	CB-CG1-CD1	-5.15	102.98	113.80
4	B	670	GLY	CA-C-N	5.15	129.01	122.37
4	B	670	GLY	C-N-CA	5.15	129.01	122.37
5	C	166	ILE	CB-CG1-CD1	-5.15	102.99	113.80
2	2	53	DT	O4'-C1'-N1	5.14	116.11	108.40
3	A	488	LEU	N-CA-CB	-5.14	102.45	111.49
3	A	593	ARG	CA-CB-CG	-5.14	103.82	114.10
1	1	105	DG	P-O5'-C5'	-5.14	112.29	120.00
6	E	351	GLY	CA-C-N	-5.14	113.62	121.74
6	E	351	GLY	C-N-CA	-5.14	113.62	121.74
4	B	16	LEU	CB-CG-CD1	-5.14	95.29	110.70
5	D	27	PRO	N-CA-CB	-5.14	97.86	103.25
4	B	679	ASP	CA-C-N	5.13	131.21	121.97
4	B	679	ASP	C-N-CA	5.13	131.21	121.97
6	E	258	PRO	CA-C-N	-5.13	112.19	121.69
6	E	258	PRO	C-N-CA	-5.13	112.19	121.69
7	F	30	ARG	CA-C-N	-5.13	112.73	121.97
7	F	30	ARG	C-N-CA	-5.13	112.73	121.97
4	B	255	GLU	N-CA-C	5.13	118.98	111.34
4	B	1011	LEU	CB-CA-C	-5.13	100.07	110.17
1	1	62	DT	C2'-C3'-O3'	-5.13	103.81	111.50
3	A	717	ILE	CA-C-N	-5.12	112.78	121.85
3	A	717	ILE	C-N-CA	-5.12	112.78	121.85
3	A	676	GLU	CB-CG-CD	-5.12	103.89	112.60
5	C	41	ARG	CA-C-N	-5.12	113.67	120.79
5	C	41	ARG	C-N-CA	-5.12	113.67	120.79
8	G	319	ARG	CB-CA-C	-5.12	100.23	110.42
9	X	41	ALA	N-CA-C	-5.12	103.92	111.81
5	D	44	LEU	CB-CG-CD2	-5.12	95.35	110.70
6	E	139	ILE	CA-CB-CG1	-5.12	101.70	110.40
3	A	940	ARG	CB-CA-C	-5.12	100.24	110.42
5	C	44	LEU	CB-CG-CD2	-5.12	95.36	110.70
6	E	565	GLU	N-CA-C	-5.12	100.83	109.07
1	1	113	DT	N1-C1'-C2'	5.11	121.17	113.50
3	A	335	GLN	CA-C-N	-5.11	113.46	120.46
3	A	335	GLN	C-N-CA	-5.11	113.46	120.46
3	A	739	GLU	CA-CB-CG	-5.11	103.88	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	579	GLU	CB-CG-CD	-5.11	103.92	112.60
3	A	400	ARG	CA-CB-CG	-5.11	103.89	114.10
5	D	212	SER	CA-C-N	-5.11	113.91	120.65
5	D	212	SER	C-N-CA	-5.11	113.91	120.65
3	A	1086	VAL	CG1-CB-CG2	-5.10	99.57	110.80
8	G	111	LEU	CA-CB-CG	-5.10	98.45	116.30
4	B	215	GLY	CA-C-O	-5.10	117.33	121.76
3	A	719	ILE	CG1-CB-CG2	-5.10	95.41	110.70
4	B	422	GLN	CA-C-N	5.10	131.27	121.54
4	B	422	GLN	C-N-CA	5.10	131.27	121.54
3	A	76	GLU	CA-CB-CG	-5.09	103.91	114.10
3	A	1032	TYR	CA-CB-CG	-5.09	104.73	113.90
6	E	317	GLY	N-CA-C	-5.09	108.80	115.47
3	A	898	VAL	CA-C-N	-5.09	113.46	120.28
3	A	898	VAL	C-N-CA	-5.09	113.46	120.28
5	C	78	ILE	CB-CA-C	-5.09	105.19	111.70
4	B	178	GLY	N-CA-C	-5.08	101.13	113.18
3	A	31	ILE	CG1-CB-CG2	-5.08	95.46	110.70
5	D	78	ILE	CB-CA-C	-5.08	105.20	111.70
6	E	260	VAL	N-CA-C	5.08	115.06	108.35
8	G	286	LEU	CB-CG-CD2	-5.08	95.47	110.70
3	A	277	LEU	CA-CB-CG	-5.08	98.54	116.30
3	A	1069	SER	CA-C-N	-5.08	111.85	121.54
3	A	1069	SER	C-N-CA	-5.08	111.85	121.54
4	B	833	VAL	CG1-CB-CG2	-5.08	99.63	110.80
4	B	1119	THR	CA-CB-OG1	-5.08	101.99	109.60
4	B	1140	HIS	N-CA-C	-5.08	105.40	111.03
6	E	360	SER	CB-CA-C	-5.08	101.81	112.82
8	G	88	GLU	CA-C-N	-5.07	112.45	120.47
8	G	88	GLU	C-N-CA	-5.07	112.45	120.47
3	A	487	ASP	CB-CA-C	-5.07	103.39	112.27
3	A	326	ARG	CA-CB-CG	-5.07	103.97	114.10
5	D	17	ARG	CB-CA-C	-5.07	109.78	117.07
6	E	499	SER	CB-CA-C	-5.06	101.38	109.69
4	B	383	GLY	N-CA-C	5.06	125.17	113.18
9	X	68	LEU	CA-C-N	-5.06	114.09	122.39
9	X	68	LEU	C-N-CA	-5.06	114.09	122.39
3	A	942	GLU	CA-CB-CG	-5.06	103.98	114.10
4	B	35	LYS	N-CA-C	-5.06	105.27	111.75
6	E	61	ARG	O-C-N	-5.06	116.27	122.34
6	E	223	LYS	CA-C-N	-5.06	113.75	120.63
6	E	223	LYS	C-N-CA	-5.06	113.75	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	138	VAL	CA-CB-CG1	-5.06	101.80	110.40
3	A	560	GLN	CA-CB-CG	-5.06	103.99	114.10
4	B	138	ARG	CA-CB-CG	-5.06	103.99	114.10
4	B	1087	PRO	CA-N-CD	5.05	119.08	112.00
6	E	196	LEU	CB-CG-CD1	-5.05	95.53	110.70
9	X	95	PHE	CA-C-N	-5.05	109.47	121.80
9	X	95	PHE	C-N-CA	-5.05	109.47	121.80
9	Y	53	LYS	CD-CE-NZ	-5.05	95.73	111.90
9	X	65	THR	N-CA-C	-5.05	103.38	110.50
9	Y	95	PHE	CA-C-N	-5.05	109.48	121.80
9	Y	95	PHE	C-N-CA	-5.05	109.48	121.80
3	A	374	ILE	CG1-CB-CG2	-5.05	95.56	110.70
6	E	480	SER	N-CA-C	-5.05	100.05	110.80
4	B	280	VAL	CA-CB-CG1	-5.04	101.83	110.40
4	B	531	GLY	N-CA-C	-5.04	101.23	113.18
9	Y	68	LEU	CA-C-N	-5.04	114.12	122.39
9	Y	68	LEU	C-N-CA	-5.04	114.12	122.39
1	1	63	DG	P-O3'-C3'	-5.04	112.64	120.20
4	B	209	ILE	CA-C-N	-5.04	114.25	122.26
4	B	209	ILE	C-N-CA	-5.04	114.25	122.26
4	B	394	SER	CA-C-N	-5.04	116.17	123.93
4	B	394	SER	C-N-CA	-5.04	116.17	123.93
4	B	201	VAL	CG1-CB-CG2	-5.03	99.73	110.80
6	E	564	VAL	CA-C-N	-5.03	116.06	123.00
6	E	564	VAL	C-N-CA	-5.03	116.06	123.00
5	C	81	ARG	CG-CD-NE	-5.03	100.94	112.00
4	B	208	ILE	CB-CA-C	-5.03	103.89	110.98
3	A	550	ALA	CA-C-N	-5.03	113.75	120.54
3	A	550	ALA	C-N-CA	-5.03	113.75	120.54
4	B	473	THR	CA-C-O	-5.03	115.74	121.82
4	B	1147	GLN	CB-CG-CD	-5.03	104.06	112.60
2	2	34	DA	C1'-O4'-C4'	-5.02	102.17	109.70
3	A	515	GLU	CB-CG-CD	-5.02	104.06	112.60
4	B	169	VAL	CG1-CB-CG2	-5.02	99.75	110.80
4	B	171	GLU	N-CA-C	-5.02	103.14	111.37
5	D	173	VAL	N-CA-C	5.02	115.35	108.12
8	G	322	LEU	CB-CG-CD2	-5.02	95.64	110.70
3	A	684	GLN	CA-C-N	-5.02	113.93	121.86
3	A	684	GLN	C-N-CA	-5.02	113.93	121.86
3	A	1043	ASP	CA-C-N	-5.02	111.95	121.54
3	A	1043	ASP	C-N-CA	-5.02	111.95	121.54
5	D	153	ARG	N-CA-C	-5.02	107.29	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	173	VAL	N-CA-C	5.01	115.34	108.12
6	E	201	ASN	N-CA-C	-5.01	101.97	109.79
3	A	897	GLN	CA-CB-CG	-5.01	104.08	114.10
4	B	397	PRO	CA-C-N	5.01	126.97	120.26
4	B	397	PRO	C-N-CA	5.01	126.97	120.26
4	B	1119	THR	CB-CA-C	-5.01	102.53	110.84
6	E	296	GLU	N-CA-C	-5.01	104.91	111.02
7	F	59	LEU	CA-C-N	-5.01	113.83	120.79
7	F	59	LEU	C-N-CA	-5.01	113.83	120.79
3	A	720	GLU	CA-CB-CG	-5.01	104.09	114.10
3	A	738	ARG	CA-C-N	-5.01	115.19	122.65
3	A	738	ARG	C-N-CA	-5.01	115.19	122.65
4	B	421	GLY	CA-C-N	-5.01	116.04	123.05
4	B	421	GLY	C-N-CA	-5.01	116.04	123.05
6	E	106	ILE	CA-CB-CG1	-5.01	101.89	110.40
8	G	365	ILE	CA-CB-CG1	-5.01	101.89	110.40
3	A	837	ARG	CA-CB-CG	-5.00	104.09	114.10
3	A	93	VAL	N-CA-C	-5.00	98.94	109.34
3	A	994	SER	CA-CB-OG	-5.00	101.10	111.10
4	B	244	VAL	CA-CB-CG1	-5.00	101.90	110.40
6	E	249	ILE	CA-CB-CG1	-5.00	101.90	110.40
8	G	119	ARG	N-CA-C	-5.00	105.91	111.36

There are no chirality outliers.

All (195) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	100	DA	Sidechain
2	2	67	DA	Sidechain
3	A	1005	PRO	Peptide
3	A	1008	GLY	Peptide
3	A	1010	ALA	Peptide
3	A	1036	GLU	Sidechain
3	A	104	LYS	Peptide
3	A	1041	LYS	Peptide
3	A	109	ILE	Peptide
3	A	1090	GLU	Mainchain
3	A	114	VAL	Peptide
3	A	167	PRO	Peptide
3	A	180	ASN	Peptide
3	A	182	LEU	Peptide
3	A	220	GLN	Peptide

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Mol	Chain	Res	Type	Group
3	A	241	LYS	Peptide
3	A	242	LEU	Peptide
3	A	274	ARG	Peptide
3	A	286	PRO	Peptide
3	A	290	ARG	Sidechain
3	A	352	THR	Peptide
3	A	367	PRO	Peptide
3	A	410	LEU	Peptide
3	A	429	ARG	Sidechain
3	A	433	ILE	Peptide
3	A	436	PRO	Peptide
3	A	437	GLU	Peptide
3	A	501	GLY	Peptide
3	A	51	ASN	Peptide
3	A	511	ARG	Sidechain
3	A	52	SER	Mainchain
3	A	550	ALA	Peptide
3	A	609	ARG	Sidechain
3	A	617	ALA	Peptide
3	A	622	THR	Peptide
3	A	623	ASP	Peptide
3	A	630	GLN	Peptide
3	A	635	ILE	Peptide
3	A	661	GLU	Peptide
3	A	662	ARG	Sidechain
3	A	726	ALA	Peptide
3	A	735	GLU	Peptide
3	A	75	LYS	Peptide
3	A	800	ARG	Peptide
3	A	811	LYS	Peptide
3	A	850	ASP	Sidechain
3	A	881	ASP	Peptide
3	A	94	GLN	Peptide
3	A	979	MET	Peptide
3	A	998	TYR	Mainchain
4	B	1001	ARG	Peptide,Sidechain
4	B	1041	GLY	Peptide
4	B	1047	ILE	Peptide
4	B	1052	ILE	Peptide
4	B	1069	LEU	Peptide
4	B	1078	PRO	Peptide
4	B	1085	ASP	Peptide

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Mol	Chain	Res	Type	Group
4	B	1104	ASP	Peptide
4	B	1113	ALA	Peptide
4	B	1243	ARG	Peptide
4	B	133	ASN	Peptide
4	B	180	ARG	Sidechain
4	B	225	MET	Peptide
4	B	238	ARG	Sidechain
4	B	25	GLY	Peptide
4	B	259	PRO	Peptide
4	B	274	LYS	Peptide
4	B	382	ASN	Peptide
4	B	383	GLY	Mainchain
4	B	414	ASP	Peptide
4	B	418	VAL	Peptide
4	B	419	LYS	Peptide
4	B	422	GLN	Peptide
4	B	425	ALA	Peptide
4	B	441	ALA	Peptide
4	B	459	VAL	Peptide
4	B	463	LYS	Peptide
4	B	482	ILE	Peptide
4	B	485	GLY	Peptide
4	B	489	ASN	Peptide
4	B	506	THR	Peptide
4	B	529	THR	Peptide
4	B	531	GLY	Peptide
4	B	535	ARG	Sidechain
4	B	538	GLU	Peptide
4	B	550	THR	Peptide
4	B	556	SER	Peptide
4	B	559	ARG	Sidechain
4	B	573	ASN	Peptide
4	B	575	ARG	Peptide
4	B	612	GLN	Peptide
4	B	616	LYS	Peptide
4	B	627	GLY	Peptide
4	B	642	ASP	Peptide
4	B	647	LEU	Peptide
4	B	651	GLY	Peptide
4	B	657	GLY	Peptide
4	B	665	PHE	Peptide
4	B	694	VAL	Peptide

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Mol	Chain	Res	Type	Group
4	B	707	LEU	Peptide
4	B	708	LEU	Peptide
4	B	711	GLY	Peptide
4	B	723	ARG	Sidechain
4	B	733	GLY	Peptide
4	B	745	ALA	Peptide
4	B	746	VAL	Peptide
4	B	747	PRO	Peptide
4	B	766	ILE	Peptide
4	B	768	MET	Peptide
4	B	773	ARG	Sidechain
4	B	783	LYS	Peptide
4	B	790	LEU	Peptide
4	B	793	THR	Peptide
4	B	828	GLN	Peptide
4	B	829	ARG	Sidechain
4	B	835	LEU	Peptide
4	B	852	SER	Peptide
4	B	854	GLN	Peptide
4	B	857	LEU	Peptide
4	B	859	VAL	Peptide
4	B	86	THR	Peptide
4	B	864	THR	Peptide
4	B	865	ILE	Peptide
4	B	866	VAL	Peptide
4	B	868	GLY	Peptide
4	B	871	VAL	Peptide
4	B	898	LEU	Peptide
4	B	914	PRO	Peptide
4	B	915	LYS	Peptide
4	B	918	ALA	Peptide
4	B	929	ALA	Peptide
4	B	930	PRO	Peptide
4	B	935	GLU	Peptide
4	B	939	GLN	Peptide
4	B	982	ILE	Peptide
4	B	989	GLN	Peptide
5	C	104	PRO	Peptide
5	C	116	SER	Peptide
5	C	191	LYS	Peptide
5	C	206	PRO	Peptide
5	C	45	LEU	Peptide

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Mol	Chain	Res	Type	Group
5	C	57	ARG	Sidechain
5	C	60	GLY	Peptide
5	C	66	ALA	Peptide
5	C	82	MET	Peptide
5	C	98	ARG	Peptide
5	D	104	PRO	Peptide
5	D	148	TYR	Peptide
5	D	149	ARG	Sidechain
5	D	156	GLU	Peptide
5	D	191	LYS	Peptide
5	D	206	PRO	Peptide
5	D	45	LEU	Peptide
5	D	57	ARG	Sidechain
5	D	60	GLY	Peptide
5	D	66	ALA	Peptide
5	D	82	MET	Peptide
5	D	89	SER	Peptide
5	D	98	ARG	Peptide
6	E	199	ASP	Peptide
6	E	212	GLU	Peptide
6	E	228	LEU	Peptide
6	E	259	MET	Peptide
6	E	296	GLU	Peptide
6	E	339	GLU	Peptide
6	E	420	GLU	Peptide
6	E	467	ASP	Peptide
6	E	499	SER	Mainchain
6	E	511	GLN	Mainchain
6	E	564	VAL	Peptide
6	E	583	SER	Peptide
6	E	584	ARG	Peptide
6	E	585	THR	Peptide
6	E	592	ARG	Peptide
6	E	624	ALA	Peptide
6	E	88	ARG	Sidechain
7	F	29	TYR	Sidechain
8	G	103	LEU	Peptide
8	G	115	ARG	Peptide
8	G	191	LEU	Mainchain
8	G	219	THR	Mainchain
8	G	347	ARG	Peptide
8	G	348	MET	Peptide

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Mol	Chain	Res	Type	Group
9	X	170	ILE	Peptide
9	X	185	SER	Mainchain
9	X	64	ILE	Peptide
9	X	65	THR	Peptide
9	X	98	VAL	Peptide
9	Y	216	VAL	Peptide
9	Y	217	THR	Peptide
9	Y	49	LYS	Peptide
9	Y	51	ALA	Peptide
9	Y	74	VAL	Peptide
9	Y	98	VAL	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	1358	0	694	739	0
2	2	1109	0	574	618	0
3	A	8473	0	8481	2897	0
4	B	9292	0	9457	3718	0
5	C	1762	0	1772	647	0
5	D	1762	0	1772	649	0
6	E	4923	0	4987	1511	0
7	F	474	0	477	103	0
8	G	2600	0	2685	909	0
9	X	1540	0	1613	574	0
9	Y	1540	0	1616	496	0
All	All	34833	0	34128	12119	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 176.

All (12119) 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)
4:B:125:MET:HG2	6:E:515:LEU:CD2	1.24	1.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:42:GLU:CB	9:X:78:LEU:HB3	1.25	1.64
9:Y:78:LEU:CD2	9:Y:88:ARG:HG2	1.15	1.62
3:A:74:LEU:HD21	3:A:95:MET:CG	1.14	1.60
6:E:28:ARG:NH2	6:E:102:ARG:CD	1.67	1.57
3:A:67:PHE:CD1	3:A:99:THR:HB	1.34	1.56
3:A:792:PHE:CZ	8:G:385:LEU:HD11	1.38	1.56
4:B:766:ILE:HG23	4:B:799:ILE:CD1	1.33	1.56
5:C:9:VAL:CG1	5:C:22:LYS:HB2	1.32	1.55
4:B:597:ARG:CD	4:B:788:VAL:HG13	1.38	1.54
9:Y:78:LEU:CD1	9:Y:88:ARG:HD2	1.14	1.54
4:B:453:VAL:CG2	4:B:988:VAL:HG22	1.38	1.52
9:Y:78:LEU:CD2	9:Y:88:ARG:CG	1.85	1.51
3:A:74:LEU:CD2	3:A:95:MET:CB	1.83	1.51
6:E:216:ALA:HB1	6:E:219:GLN:CG	1.36	1.51
9:X:42:GLU:HB2	9:X:78:LEU:CB	1.04	1.51
8:G:378:HIS:CD2	9:X:57:VAL:CG2	1.92	1.51
3:A:74:LEU:HD23	3:A:95:MET:CA	1.39	1.50
4:B:311:LEU:HD12	7:F:27:ASN:ND2	1.25	1.50
6:E:216:ALA:CB	6:E:219:GLN:HG3	1.41	1.50
9:X:179:ILE:CG2	9:X:189:THR:HG22	1.36	1.50
4:B:93:LYS:CE	4:B:375:ASP:HB2	1.37	1.49
3:A:1028:PHE:CE1	6:E:438:ARG:HB2	1.43	1.49
1:1:89:DA:N6	2:2:37:DT:C4	1.79	1.48
1:1:89:DA:C6	2:2:37:DT:N3	1.80	1.47
9:Y:78:LEU:HD22	9:Y:88:ARG:CG	1.40	1.46
9:X:179:ILE:CG2	9:X:189:THR:CG2	1.92	1.46
4:B:618:LYS:O	4:B:621:TYR:CE1	1.66	1.45
6:E:220:LYS:HD2	6:E:223:LYS:CD	1.42	1.45
3:A:887:LEU:CD1	4:B:131:ARG:NH2	1.80	1.45
3:A:1028:PHE:CD1	6:E:438:ARG:HB2	1.49	1.44
8:G:242:ILE:HG23	8:G:266:MET:CE	1.43	1.44
3:A:887:LEU:HD13	4:B:131:ARG:NH2	1.27	1.44
5:C:58:ILE:HD13	5:C:138:MET:SD	1.58	1.44
8:G:378:HIS:NE2	9:X:57:VAL:HG23	1.27	1.43
3:A:74:LEU:CD2	3:A:95:MET:CA	1.93	1.43
8:G:378:HIS:CE1	9:X:57:VAL:HG23	1.53	1.43
5:D:58:ILE:HD13	5:D:138:MET:SD	1.58	1.43
8:G:163:LEU:HD12	8:G:164:ARG:N	1.22	1.42
1:1:86:DG:N1	2:2:40:DC:N3	1.68	1.42
9:X:179:ILE:CB	9:X:189:THR:HG21	1.50	1.42
3:A:735:GLU:C	3:A:772:LYS:HG3	1.45	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:88:DA:N1	2:2:38:DT:N3	1.71	1.39
8:G:378:HIS:CG	9:X:57:VAL:CG2	2.05	1.39
1:1:72:DT:C7	9:X:187:ARG:NH2	1.84	1.39
3:A:215:HIS:CD2	3:A:219:PHE:HE1	1.40	1.39
3:A:1028:PHE:CE1	6:E:438:ARG:CB	2.07	1.38
4:B:597:ARG:CG	4:B:788:VAL:HG13	1.53	1.38
1:1:106:DG:H4'	8:G:171:LYS:CD	1.52	1.38
8:G:378:HIS:CD2	9:X:57:VAL:HG21	1.54	1.38
4:B:687:LYS:CD	4:B:739:ARG:HD3	1.53	1.37
3:A:74:LEU:CD2	3:A:95:MET:HA	1.54	1.37
5:D:118:VAL:CG1	5:D:142:ILE:HG21	1.54	1.37
4:B:453:VAL:HG21	4:B:988:VAL:CG1	1.55	1.36
4:B:93:LYS:HE2	4:B:375:ASP:CB	1.53	1.36
3:A:470:ARG:CD	3:A:502:TYR:HE1	1.36	1.36
8:G:242:ILE:CG2	8:G:266:MET:HE1	1.56	1.35
3:A:184:TRP:CG	3:A:193:LEU:HD12	1.60	1.35
6:E:122:PRO:HB2	6:E:127:ILE:CD1	1.57	1.35
4:B:766:ILE:CG1	4:B:799:ILE:HD12	1.57	1.35
3:A:968:PHE:CD1	4:B:47:ALA:O	1.77	1.34
8:G:318:LEU:CG	8:G:388:TYR:HE2	1.25	1.34
8:G:163:LEU:CD1	8:G:164:ARG:H	1.41	1.34
4:B:1231:TRP:CD1	6:E:11:TYR:HB3	1.61	1.34
3:A:188:ASP:OD1	3:A:191:ARG:HB2	1.27	1.33
6:E:220:LYS:CD	6:E:223:LYS:HD2	1.54	1.33
9:X:40:PRO:N	9:X:40:PRO:CA	1.70	1.33
4:B:922:ILE:O	4:B:937:SER:HA	1.16	1.33
9:X:47:LEU:CD2	9:X:69:LEU:HB3	1.58	1.33
1:1:86:DG:O6	2:2:40:DC:N4	1.62	1.32
3:A:792:PHE:CZ	8:G:385:LEU:CD1	2.12	1.32
3:A:184:TRP:CB	3:A:193:LEU:HD12	1.60	1.32
4:B:473:THR:HG22	4:B:977:GLY:C	1.52	1.32
3:A:748:LEU:H	3:A:751:LEU:CD1	1.43	1.31
8:G:258:THR:OG1	8:G:262:ILE:HD11	1.15	1.31
4:B:385:MET:SD	4:B:406:GLN:HB3	1.70	1.30
8:G:378:HIS:CG	9:X:57:VAL:HG21	1.63	1.30
9:Y:78:LEU:CD1	9:Y:88:ARG:CD	2.10	1.30
3:A:215:HIS:CD2	3:A:219:PHE:CE1	2.17	1.30
4:B:1037:LYS:HD2	4:B:1052:ILE:CG2	1.59	1.30
4:B:1159:ASP:HB2	4:B:1180:MET:SD	1.71	1.30
3:A:748:LEU:N	3:A:751:LEU:HD12	1.44	1.30
1:1:87:DA:N6	2:2:39:DT:O4	1.60	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:74:LEU:CD2	3:A:95:MET:HG3	1.63	1.28
9:Y:53:LYS:HG2	9:Y:68:LEU:CD2	1.62	1.28
3:A:74:LEU:HD21	3:A:95:MET:CB	1.48	1.28
4:B:304:ALA:HB2	6:E:438:ARG:NH2	1.43	1.28
4:B:356:THR:HG21	4:B:411:TYR:CD2	1.67	1.28
9:X:75:PHE:CE2	9:X:100:LEU:HD22	1.68	1.27
3:A:72:TYR:HD1	3:A:74:LEU:CG	1.47	1.27
3:A:1077:LEU:C	3:A:1082:LEU:HD12	1.59	1.27
4:B:378:PHE:CE1	4:B:413:VAL:HG12	1.70	1.27
6:E:28:ARG:NH2	6:E:102:ARG:HD2	1.33	1.27
6:E:122:PRO:CB	6:E:127:ILE:HD11	1.65	1.27
4:B:93:LYS:HZ3	4:B:376:ALA:N	1.29	1.27
9:Y:135:MET:O	9:Y:136:MET:HG2	1.23	1.27
1:1:87:DA:N1	2:2:39:DT:N3	1.80	1.26
8:G:318:LEU:CG	8:G:388:TYR:CE2	2.09	1.26
1:1:86:DG:N2	2:2:40:DC:O2	1.63	1.26
4:B:384:ILE:CG2	4:B:393:GLY:C	2.07	1.26
4:B:514:LYS:NZ	4:B:873:ARG:CZ	1.97	1.26
9:X:30:ARG:CG	9:X:97:PRO:HD3	1.63	1.26
4:B:125:MET:CG	6:E:515:LEU:CD2	2.10	1.26
4:B:356:THR:HG21	4:B:411:TYR:CE2	1.70	1.26
4:B:453:VAL:CG2	4:B:988:VAL:CG2	2.12	1.26
9:X:42:GLU:O	9:X:78:LEU:HB2	1.15	1.26
4:B:384:ILE:HG22	4:B:393:GLY:C	1.59	1.26
5:D:17:ARG:HG2	5:D:201:ASN:O	1.28	1.25
3:A:887:LEU:HD13	4:B:131:ARG:CZ	1.65	1.25
4:B:1159:ASP:HB2	4:B:1180:MET:CE	1.64	1.25
9:X:131:LEU:CD1	9:X:135:MET:HE3	1.66	1.25
4:B:283:ARG:CG	4:B:298:CYS:HB2	1.64	1.25
1:1:58:DA:C2	2:2:68:DT:N3	2.04	1.25
3:A:74:LEU:CD2	3:A:95:MET:CG	2.02	1.25
3:A:542:ILE:HG23	3:A:856:HIS:CE1	1.70	1.25
4:B:352:LYS:HE2	4:B:358:LYS:CE	1.66	1.25
8:G:258:THR:OG1	8:G:262:ILE:CD1	1.82	1.25
4:B:766:ILE:HG12	4:B:799:ILE:CD1	1.67	1.24
1:1:78:DA:N6	2:2:48:DT:O4	1.69	1.24
4:B:378:PHE:CE1	4:B:413:VAL:CG1	2.20	1.24
5:C:159:THR:CG2	5:C:163:PHE:CD2	2.19	1.24
9:Y:78:LEU:HD11	9:Y:88:ARG:CD	1.65	1.24
1:1:76:DC:N4	2:2:50:DG:O6	1.72	1.23
4:B:514:LYS:HZ2	4:B:873:ARG:CZ	1.49	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:17:ARG:NH1	7:F:67:ASP:OD2	1.69	1.23
1:1:80:DA:N6	2:2:46:DT:O4	1.69	1.23
3:A:1077:LEU:HB3	3:A:1082:LEU:CD1	1.65	1.23
9:X:154:LEU:O	9:X:157:CYS:SG	1.97	1.23
1:1:106:DG:C4'	8:G:171:LYS:HD2	1.67	1.23
3:A:535:VAL:CG2	3:A:540:SER:HB3	1.67	1.23
4:B:499:LYS:HB3	4:B:889:LYS:NZ	1.53	1.23
4:B:536:GLU:HA	4:B:838:LEU:O	1.35	1.23
4:B:714:LEU:CD1	4:B:736:LEU:HD22	1.68	1.23
1:1:81:DT:O4	2:2:45:DA:N6	1.72	1.22
4:B:618:LYS:O	4:B:621:TYR:CZ	1.91	1.22
5:C:151:VAL:CG1	5:C:156:GLU:HG2	1.69	1.22
4:B:1107:TYR:OH	4:B:1174:GLU:HG2	1.36	1.22
9:X:144:ASP:O	9:X:148:ARG:NE	1.73	1.22
9:Y:36:PHE:CE1	9:Y:91:HIS:CE1	2.28	1.22
3:A:70:HIS:CE1	3:A:71:ASN:ND2	2.08	1.22
4:B:597:ARG:HG3	4:B:788:VAL:CG1	1.68	1.22
4:B:766:ILE:CG2	4:B:799:ILE:CD1	2.16	1.22
4:B:1107:TYR:OH	4:B:1174:GLU:CG	1.86	1.22
4:B:586:GLN:NE2	4:B:797:LEU:O	1.73	1.21
8:G:171:LYS:O	8:G:174:MET:HG2	1.39	1.21
4:B:514:LYS:HZ2	4:B:873:ARG:NH2	1.38	1.21
1:1:72:DT:H71	9:X:187:ARG:NH2	0.90	1.21
5:C:159:THR:HG22	5:C:163:PHE:CG	1.75	1.21
6:E:188:ILE:HD11	6:E:300:ARG:NE	1.55	1.21
9:Y:197:LEU:CD1	9:Y:198:ARG:HG3	1.69	1.21
8:G:292:LYS:O	8:G:293:GLU:HG2	1.40	1.21
4:B:93:LYS:HD3	4:B:372:HIS:NE2	1.53	1.21
4:B:463:LYS:NZ	4:B:467:GLN:OE1	1.70	1.21
5:C:9:VAL:CG1	5:C:22:LYS:CB	2.18	1.21
3:A:542:ILE:CG2	3:A:856:HIS:HE1	1.54	1.20
5:C:159:THR:HG23	5:C:163:PHE:CD2	1.74	1.20
9:X:42:GLU:HA	9:X:78:LEU:CD1	1.69	1.20
8:G:378:HIS:CD2	9:X:57:VAL:HG23	1.61	1.20
9:X:179:ILE:HG21	9:X:189:THR:CG2	1.61	1.20
8:G:336:VAL:CG2	8:G:354:ILE:HD11	1.70	1.20
9:X:176:HIS:O	9:X:189:THR:OG1	1.55	1.20
4:B:538:GLU:HA	4:B:836:GLU:O	1.36	1.19
3:A:470:ARG:CD	3:A:502:TYR:CE1	2.24	1.19
8:G:171:LYS:HG3	8:G:174:MET:SD	1.82	1.19
3:A:72:TYR:CD1	3:A:74:LEU:HG	1.75	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:887:LEU:HD12	3:A:887:LEU:O	1.40	1.19
4:B:378:PHE:HE1	4:B:413:VAL:CG1	1.51	1.19
4:B:463:LYS:CG	4:B:472:THR:HG22	1.72	1.18
4:B:463:LYS:HG2	4:B:472:THR:CG2	1.72	1.18
5:C:151:VAL:HG13	5:C:156:GLU:CG	1.72	1.18
2:2:60:DC:H2'	2:2:61:DT:C6	1.78	1.18
4:B:463:LYS:NZ	4:B:467:GLN:H	1.39	1.18
8:G:329:LEU:HD12	8:G:329:LEU:O	1.42	1.18
3:A:184:TRP:CG	3:A:193:LEU:CD1	2.27	1.18
4:B:304:ALA:CB	6:E:438:ARG:NH2	2.07	1.18
4:B:552:THR:OG1	4:B:563:LEU:HD12	1.44	1.18
4:B:384:ILE:HG22	4:B:393:GLY:O	1.02	1.18
3:A:74:LEU:CD2	3:A:95:MET:HB2	1.68	1.18
4:B:303:LEU:HD13	6:E:502:THR:HA	1.18	1.17
3:A:609:ARG:HD3	3:A:636:ARG:CA	1.74	1.17
5:D:118:VAL:HG11	5:D:142:ILE:CG2	1.71	1.17
4:B:739:ARG:HH11	4:B:781:ARG:NH2	1.40	1.17
6:E:220:LYS:HD2	6:E:223:LYS:CE	1.73	1.17
9:X:108:VAL:CG2	9:X:122:MET:HE2	1.73	1.17
3:A:552:ARG:CZ	3:A:892:ARG:HG2	1.75	1.17
4:B:250:HIS:HB2	4:B:254:LYS:HZ3	1.00	1.17
4:B:452:GLU:HA	4:B:987:LEU:HG	1.25	1.17
8:G:340:ARG:HH21	8:G:369:GLU:HG2	1.06	1.17
4:B:304:ALA:CB	6:E:438:ARG:HH22	1.56	1.16
8:G:378:HIS:HE1	9:X:63:GLU:OE2	1.27	1.16
5:D:19:HIS:HB3	5:D:206:PRO:HD3	1.24	1.16
1:1:72:DT:C7	9:X:187:ARG:HH22	1.48	1.16
1:1:85:DG:N1	2:2:41:DC:N3	1.92	1.16
9:Y:81:LEU:HD23	9:Y:82:THR:HG23	1.17	1.16
3:A:887:LEU:HD12	4:B:131:ARG:HH22	1.05	1.16
6:E:53:GLU:O	6:E:54:MET:HG3	1.44	1.16
3:A:224:GLU:HB2	3:A:226:GLU:OE2	1.46	1.16
1:1:94:DT:OP1	6:E:48:ARG:HD2	1.40	1.15
4:B:359:LEU:HG	4:B:387:LEU:N	1.59	1.15
4:B:842:ARG:CD	4:B:845:ALA:HB2	1.75	1.15
8:G:330:SER:HB2	8:G:333:GLU:OE1	1.43	1.15
3:A:607:ARG:HA	3:A:609:ARG:HG2	1.18	1.15
3:A:792:PHE:CE2	8:G:385:LEU:CD1	2.29	1.15
4:B:1177:ASN:ND2	4:B:1190:TYR:HE2	1.44	1.15
9:Y:55:SER:HA	9:Y:65:THR:HA	1.28	1.15
3:A:609:ARG:CD	3:A:636:ARG:HA	1.75	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:356:THR:CG2	4:B:411:TYR:CD2	2.27	1.15
5:C:13:THR:HG21	5:C:206:PRO:HD2	1.26	1.15
5:C:63:HIS:HA	5:C:164:LEU:HD21	1.17	1.15
4:B:347:GLN:NE2	4:B:356:THR:HG22	1.62	1.15
6:E:100:ARG:HG2	6:E:255:ASP:CG	1.70	1.15
3:A:148:TYR:HE1	3:A:322:ASN:ND2	1.45	1.14
3:A:609:ARG:NH1	3:A:635:ILE:O	1.79	1.14
9:Y:35:PHE:CE2	9:Y:92:ALA:HB2	1.81	1.14
1:1:72:DT:H71	9:X:187:ARG:CZ	1.76	1.14
3:A:470:ARG:HD3	3:A:502:TYR:CE1	1.82	1.14
3:A:67:PHE:CD1	3:A:99:THR:CB	2.30	1.14
3:A:792:PHE:CE2	8:G:385:LEU:HD11	1.82	1.14
9:Y:203:ILE:HA	9:Y:211:THR:O	1.45	1.14
3:A:1017:PHE:CE2	3:A:1025:LEU:CD1	2.30	1.14
4:B:215:GLY:O	4:B:216:THR:HG22	1.48	1.14
4:B:514:LYS:NZ	4:B:873:ARG:NH2	1.95	1.14
6:E:28:ARG:CZ	6:E:102:ARG:HD2	1.76	1.14
9:X:47:LEU:HD23	9:X:69:LEU:HB3	1.23	1.14
9:Y:36:PHE:CD1	9:Y:91:HIS:CE1	2.34	1.14
4:B:521:GLY:HA2	4:B:760:GLN:HB3	1.30	1.14
5:C:13:THR:CG2	5:C:206:PRO:HD2	1.77	1.14
3:A:231:GLU:OE2	3:A:232:GLU:HG3	1.45	1.13
4:B:358:LYS:HD3	4:B:412:ILE:HD11	1.26	1.13
5:D:171:MET:SD	5:D:173:VAL:N	2.21	1.13
6:E:216:ALA:HB1	6:E:219:GLN:CB	1.77	1.13
3:A:535:VAL:HG23	3:A:540:SER:HB3	1.17	1.13
4:B:453:VAL:HG21	4:B:988:VAL:HG13	1.21	1.13
1:1:86:DG:N2	2:2:40:DC:C2	2.16	1.13
4:B:143:MET:HG3	4:B:160:LYS:O	1.47	1.13
4:B:688:PRO:HD2	4:B:739:ARG:CD	1.76	1.13
5:C:171:MET:SD	5:C:173:VAL:N	2.21	1.13
5:D:107:ILE:HD13	5:D:136:LEU:HD21	1.15	1.13
3:A:100:ARG:HG2	3:A:101:LEU:H	1.14	1.12
4:B:766:ILE:HG23	4:B:799:ILE:HD13	1.28	1.12
9:X:42:GLU:CB	9:X:78:LEU:CB	1.94	1.12
3:A:66:HIS:NE2	3:A:100:ARG:HD2	1.63	1.12
4:B:542:ALA:HA	4:B:759:SER:HA	1.13	1.12
9:X:47:LEU:HD23	9:X:69:LEU:CB	1.78	1.12
3:A:470:ARG:HD3	3:A:502:TYR:HE1	0.99	1.12
4:B:207:VAL:HG13	4:B:293:SER:HA	1.15	1.12
4:B:283:ARG:HD2	4:B:298:CYS:HA	1.23	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:499:LYS:CB	4:B:889:LYS:HZ3	1.61	1.12
4:B:766:ILE:HG23	4:B:799:ILE:HD11	1.19	1.12
4:B:360:PRO:HB3	4:B:390:ARG:HD3	1.24	1.12
4:B:1177:ASN:ND2	4:B:1190:TYR:CE2	2.16	1.12
6:E:71:CYS:SG	6:E:89:CYS:HB3	1.89	1.12
6:E:509:PRO:HA	6:E:513:MET:HE3	1.24	1.12
4:B:266:ASP:O	4:B:269:ALA:N	1.83	1.12
3:A:887:LEU:CD1	4:B:131:ARG:CZ	2.25	1.11
4:B:93:LYS:HD3	4:B:372:HIS:CD2	1.83	1.11
4:B:384:ILE:CG2	4:B:393:GLY:O	1.94	1.11
4:B:653:TYR:HD1	4:B:671:VAL:HA	1.11	1.11
4:B:757:SER:HB3	4:B:768:MET:HG3	1.30	1.11
5:D:184:ARG:HD3	5:D:185:ALA:H	1.07	1.11
1:1:87:DA:N6	2:2:38:DT:O4	1.84	1.11
4:B:773:ARG:HD3	4:B:792:ARG:HB3	1.31	1.11
6:E:382:GLU:OE1	6:E:382:GLU:N	1.82	1.11
3:A:185:VAL:HG23	3:A:197:VAL:HA	1.26	1.11
3:A:936:LEU:O	3:A:939:ALA:N	1.83	1.11
4:B:940:ILE:HA	4:B:966:ILE:HA	1.31	1.11
8:G:246:THR:HB	8:G:256:LYS:HD2	1.33	1.11
9:X:108:VAL:HG22	9:X:122:MET:HE2	1.32	1.11
3:A:1017:PHE:CE2	3:A:1025:LEU:HD11	1.86	1.11
4:B:707:LEU:HB2	4:B:724:TYR:HA	1.32	1.11
6:E:402:LYS:HD3	8:G:390:ARG:HH21	1.02	1.11
4:B:93:LYS:CD	4:B:375:ASP:HB2	1.81	1.11
4:B:283:ARG:HG2	4:B:298:CYS:CB	1.80	1.11
5:C:130:ILE:HD12	5:C:136:LEU:HG	1.20	1.11
6:E:67:LYS:HB3	6:E:70:GLU:OE1	1.50	1.11
6:E:154:GLU:HG3	6:E:155:THR:H	1.14	1.11
6:E:216:ALA:CB	6:E:219:GLN:CG	2.10	1.11
9:Y:36:PHE:CD1	9:Y:91:HIS:ND1	2.18	1.11
4:B:907:THR:HG22	4:B:965:THR:HA	1.31	1.10
6:E:594:ARG:NH1	6:E:603:SER:HB2	1.66	1.10
9:X:142:HIS:HB3	9:X:148:ARG:CG	1.80	1.10
9:X:179:ILE:HB	9:X:189:THR:CG2	1.81	1.10
3:A:1076:GLU:O	3:A:1079:SER:N	1.84	1.10
4:B:358:LYS:HG2	4:B:410:ILE:CD1	1.79	1.10
4:B:597:ARG:HG3	4:B:788:VAL:HG13	1.24	1.10
5:C:215:GLY:HA2	5:D:225:LYS:HE2	1.32	1.10
6:E:424:GLU:OE1	6:E:424:GLU:N	1.84	1.10
4:B:739:ARG:NH1	4:B:781:ARG:CZ	2.14	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:181:GLU:OE2	5:D:193:ARG:HB2	1.49	1.10
9:X:47:LEU:HD13	9:X:100:LEU:HD21	1.32	1.10
3:A:551:ASN:OD1	3:A:552:ARG:N	1.82	1.10
3:A:873:TYR:HA	3:A:879:PRO:HA	1.31	1.10
3:A:589:VAL:HA	3:A:653:GLN:NE2	1.66	1.10
4:B:93:LYS:NZ	4:B:376:ALA:H	1.49	1.10
6:E:47:TYR:CB	8:G:231:LEU:HD23	1.82	1.10
6:E:217:LYS:O	6:E:221:ARG:NE	1.85	1.10
8:G:318:LEU:HA	8:G:388:TYR:CE2	1.62	1.10
9:X:47:LEU:CA	9:X:100:LEU:HD23	1.81	1.10
9:X:142:HIS:HB3	9:X:148:ARG:HG2	1.12	1.10
1:1:88:DA:N1	2:2:38:DT:C4	2.10	1.09
3:A:736:ILE:HD11	3:A:772:LYS:HD3	1.24	1.09
3:A:828:LEU:HD13	3:A:832:ALA:HB3	1.18	1.09
5:C:148:TYR:HA	5:C:169:ILE:HA	1.34	1.09
5:C:211:SER:HA	5:D:225:LYS:HA	1.16	1.09
5:D:58:ILE:CD1	5:D:138:MET:SD	2.40	1.09
3:A:467:GLU:O	3:A:470:ARG:HG2	1.52	1.09
4:B:597:ARG:HD2	4:B:788:VAL:HG13	1.32	1.09
8:G:122:GLU:O	8:G:126:ARG:NH2	1.85	1.09
8:G:266:MET:CG	8:G:273:LEU:HD21	1.82	1.09
9:Y:81:LEU:CD2	9:Y:82:THR:HG23	1.81	1.09
1:1:74:DT:N3	2:2:52:DA:N1	1.97	1.09
1:1:94:DT:P	6:E:47:TYR:OH	2.11	1.09
3:A:74:LEU:HD22	3:A:95:MET:HB2	1.25	1.09
3:A:1091:THR:HG22	3:A:1093:ALA:H	0.99	1.09
9:Y:53:LYS:HG2	9:Y:68:LEU:HD23	1.12	1.09
3:A:395:GLU:O	3:A:398:HIS:N	1.86	1.09
3:A:913:ARG:O	3:A:914:PHE:CD1	2.05	1.09
4:B:496:LEU:HA	4:B:511:ALA:HA	1.32	1.09
4:B:1231:TRP:CG	6:E:11:TYR:HB3	1.85	1.09
5:C:58:ILE:CD1	5:C:138:MET:SD	2.40	1.09
1:1:89:DA:N1	2:2:37:DT:N3	2.01	1.09
4:B:388:GLU:HB3	4:B:399:PRO:HG2	1.25	1.09
4:B:463:LYS:HE2	4:B:465:ASP:OD1	1.53	1.09
4:B:572:PHE:HB3	4:B:589:ALA:HB1	1.28	1.09
6:E:28:ARG:NH2	6:E:102:ARG:HD3	1.44	1.09
8:G:246:THR:HB	8:G:256:LYS:CD	1.81	1.09
3:A:72:TYR:CD1	3:A:74:LEU:CD1	2.35	1.08
3:A:597:ASP:OD1	3:A:662:ARG:HA	1.53	1.08
4:B:171:GLU:OE1	4:B:171:GLU:N	1.85	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:688:PRO:O	4:B:739:ARG:HG2	1.53	1.08
4:B:1144:ILE:O	4:B:1147:GLN:N	1.86	1.08
5:C:32:GLN:CD	5:D:220:LEU:HD21	1.78	1.08
5:C:99:LEU:N	5:C:138:MET:O	1.86	1.08
6:E:252:ILE:O	6:E:257:ARG:NH1	1.86	1.08
8:G:336:VAL:CG2	8:G:354:ILE:CD1	2.31	1.08
1:1:76:DC:N3	2:2:50:DG:N1	1.98	1.08
1:1:79:DA:N1	2:2:47:DT:N3	1.85	1.08
3:A:470:ARG:HD2	3:A:502:TYR:CE1	1.88	1.08
3:A:599:VAL:HG22	3:A:615:PRO:HG3	1.32	1.08
4:B:93:LYS:NZ	4:B:376:ALA:N	1.99	1.08
5:C:151:VAL:HG23	5:C:167:ASP:HB3	1.27	1.08
8:G:146:TYR:CE1	8:G:150:ILE:CD1	2.36	1.08
8:G:163:LEU:CD1	8:G:164:ARG:HG3	1.83	1.08
9:Y:197:LEU:HD11	9:Y:198:ARG:HG3	1.24	1.08
3:A:595:ASP:OD2	3:A:618:SER:OG	1.67	1.08
3:A:598:VAL:HG23	3:A:608:VAL:HG11	1.34	1.08
3:A:1015:GLN:HE22	6:E:359:ARG:HD2	1.11	1.08
4:B:1222:GLU:O	4:B:1225:ILE:N	1.87	1.08
2:2:52:DA:H2"	2:2:53:DT:H5'	1.31	1.08
4:B:661:VAL:N	4:B:664:ILE:O	1.87	1.08
5:C:97:GLY:CA	5:C:114:LEU:HA	1.84	1.08
5:D:99:LEU:N	5:D:138:MET:O	1.86	1.08
6:E:512:ASP:OD1	6:E:513:MET:N	1.84	1.08
8:G:356:GLN:HA	8:G:360:VAL:HA	1.26	1.08
4:B:358:LYS:HG2	4:B:410:ILE:HD12	1.30	1.08
8:G:318:LEU:CD1	8:G:390:ARG:O	2.01	1.08
8:G:318:LEU:HG	8:G:388:TYR:CE2	1.80	1.08
4:B:1037:LYS:HD2	4:B:1052:ILE:HG23	1.30	1.07
8:G:242:ILE:HG12	8:G:266:MET:SD	1.93	1.07
8:G:318:LEU:CD1	8:G:388:TYR:CE2	2.37	1.07
4:B:68:ALA:HB1	4:B:419:LYS:HE2	1.31	1.07
4:B:84:GLU:O	4:B:973:ARG:NH1	1.86	1.07
4:B:352:LYS:HD3	4:B:358:LYS:NZ	1.69	1.07
4:B:816:ILE:HG13	4:B:833:VAL:HG23	1.17	1.07
4:B:1215:GLU:OE2	4:B:1218:ARG:HD3	1.54	1.07
6:E:321:ARG:HA	6:E:321:ARG:NE	1.69	1.07
9:X:143:ARG:H	9:X:148:ARG:HD3	1.16	1.07
3:A:789:ARG:HH12	3:A:795:LYS:HA	1.14	1.07
4:B:818:LEU:HG	4:B:819:ILE:H	1.12	1.07
4:B:1252:ASN:ND2	7:F:33:VAL:HG21	1.68	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:351:LEU:HA	8:G:354:ILE:CG2	1.83	1.07
9:Y:78:LEU:HD13	9:Y:88:ARG:HD2	1.12	1.07
3:A:609:ARG:NH1	3:A:637:TYR:H	1.52	1.07
4:B:72:GLU:HB2	4:B:419:LYS:HB2	1.36	1.07
4:B:172:TYR:O	4:B:175:SER:OG	1.72	1.07
4:B:1088:SER:OG	4:B:1093:ILE:CG2	2.02	1.07
6:E:265:GLY:CA	8:G:278:LYS:HE3	1.84	1.07
8:G:318:LEU:HD12	8:G:388:TYR:CE2	1.89	1.07
9:Y:78:LEU:HD22	9:Y:88:ARG:HG3	1.13	1.07
1:1:89:DA:C6	2:2:37:DT:C4	2.32	1.07
4:B:378:PHE:HE1	4:B:413:VAL:HG12	0.90	1.07
4:B:687:LYS:HD2	4:B:739:ARG:CD	1.83	1.07
9:Y:44:VAL:HA	9:Y:76:GLY:HA3	1.21	1.07
3:A:199:LEU:CD2	3:A:229:PHE:CE2	2.37	1.06
4:B:169:VAL:O	4:B:172:TYR:N	1.88	1.06
4:B:538:GLU:HG3	4:B:540:ILE:HG12	1.12	1.06
4:B:597:ARG:CD	4:B:788:VAL:CG1	2.32	1.06
4:B:675:THR:O	4:B:677:LYS:NZ	1.86	1.06
4:B:1091:HIS:CE1	4:B:1092:GLU:HG3	1.89	1.06
5:D:118:VAL:HG21	5:D:142:ILE:HG13	1.36	1.06
1:1:58:DA:N1	2:2:68:DT:N3	2.02	1.06
3:A:39:ARG:HB3	3:A:43:GLU:OE2	1.56	1.06
6:E:144:SER:HA	6:E:163:SER:HA	1.36	1.06
8:G:232:PRO:CB	8:G:234:HIS:CE1	2.39	1.06
9:Y:197:LEU:HD12	9:Y:198:ARG:N	1.70	1.06
3:A:970:ARG:HH22	4:B:120:ASN:HA	1.20	1.06
4:B:657:GLY:O	4:B:668:ASN:ND2	1.88	1.06
8:G:110:LEU:HD12	8:G:148:LEU:O	1.55	1.06
3:A:551:ASN:O	3:A:554:LEU:N	1.88	1.06
3:A:734:GLU:HG2	3:A:772:LYS:NZ	1.69	1.06
4:B:125:MET:HG2	6:E:515:LEU:HD21	1.34	1.06
4:B:321:GLN:HA	6:E:436:LEU:HD21	1.37	1.06
4:B:631:TRP:CD1	4:B:633:PRO:HG3	1.89	1.06
5:C:159:THR:HG22	5:C:163:PHE:CB	1.86	1.06
6:E:430:LEU:O	6:E:441:ILE:HG13	1.56	1.06
8:G:318:LEU:HG	8:G:388:TYR:HE2	0.90	1.06
3:A:67:PHE:CG	3:A:99:THR:HB	1.90	1.06
6:E:530:GLY:HA3	6:E:550:ILE:HA	1.37	1.06
1:1:86:DG:N1	2:2:40:DC:C4	2.24	1.05
3:A:968:PHE:HZ	3:A:972:VAL:HG23	1.19	1.05
3:A:1054:ALA:HB1	3:A:1059:LYS:NZ	1.69	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:271:GLU:HG3	4:B:272:ILE:N	1.68	1.05
6:E:483:SER:HA	6:E:486:GLU:OE2	1.56	1.05
8:G:232:PRO:HB2	8:G:234:HIS:CE1	1.91	1.05
9:Y:203:ILE:HG22	9:Y:212:VAL:HA	1.38	1.05
1:1:84:DA:N1	2:2:42:DT:C4	2.24	1.05
5:D:79:ILE:HA	5:D:82:MET:CG	1.86	1.05
1:1:94:DT:O5'	6:E:47:TYR:OH	1.75	1.05
4:B:93:LYS:NZ	4:B:415:GLY:HA2	1.71	1.05
4:B:721:GLU:OE2	4:B:723:ARG:HA	1.56	1.05
4:B:1162:MET:SD	4:B:1166:GLU:OE2	2.14	1.05
5:C:151:VAL:HG12	5:C:156:GLU:HG2	1.31	1.05
5:D:107:ILE:CD1	5:D:136:LEU:HD21	1.86	1.05
8:G:340:ARG:NH2	8:G:369:GLU:HG2	1.70	1.05
9:X:52:VAL:HG11	9:X:100:LEU:CD1	1.85	1.05
3:A:1028:PHE:CD2	6:E:491:MET:HE2	1.92	1.05
4:B:1032:ARG:HG3	4:B:1078:PRO:HD3	1.38	1.05
5:D:118:VAL:HG11	5:D:142:ILE:HG21	1.11	1.05
9:X:52:VAL:CG1	9:X:100:LEU:HD11	1.86	1.05
1:1:101:DT:H3'	8:G:208:THR:HG21	1.31	1.05
3:A:72:TYR:CD1	3:A:74:LEU:CG	2.38	1.05
3:A:609:ARG:HG3	3:A:610:VAL:H	0.96	1.05
3:A:1085:ALA:O	3:A:1087:HIS:ND1	1.89	1.05
4:B:283:ARG:HD2	4:B:298:CYS:CA	1.86	1.05
4:B:490:LEU:N	4:B:895:ARG:HG3	1.70	1.05
4:B:1159:ASP:CB	4:B:1180:MET:SD	2.45	1.05
5:C:79:ILE:HA	5:C:82:MET:CG	1.86	1.05
5:C:151:VAL:CG1	5:C:156:GLU:CG	2.32	1.05
8:G:249:LEU:HD21	8:G:265:ARG:HD2	1.34	1.05
3:A:199:LEU:HD22	3:A:229:PHE:HE2	1.22	1.04
3:A:684:GLN:HE22	3:A:713:ILE:HG23	1.19	1.04
4:B:657:GLY:C	4:B:668:ASN:HD21	1.64	1.04
4:B:809:ALA:HB1	4:B:812:LEU:HB2	1.39	1.04
1:1:85:DG:H1'	1:1:86:DG:H5'	1.40	1.04
3:A:215:HIS:NE2	3:A:219:PHE:HE1	1.53	1.04
5:C:9:VAL:HG12	5:C:22:LYS:CB	1.79	1.04
6:E:129:LEU:HD21	6:E:193:LEU:HD11	1.35	1.04
8:G:378:HIS:CE1	9:X:57:VAL:CG2	2.39	1.04
9:X:33:THR:HA	9:X:93:VAL:HA	1.34	1.04
9:X:42:GLU:C	9:X:78:LEU:HB2	1.82	1.04
9:X:176:HIS:HB3	9:X:190:VAL:HG23	1.35	1.04
2:2:50:DG:H1'	2:2:51:DT:H5'	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:381:SER:OG	3:A:383:LEU:N	1.90	1.04
3:A:491:ALA:N	3:A:526:TYR:O	1.90	1.04
3:A:630:GLN:O	3:A:633:GLN:NE2	1.90	1.04
4:B:670:GLY:HA3	4:B:687:LYS:O	1.56	1.04
4:B:842:ARG:HD3	4:B:845:ALA:HB2	1.39	1.04
5:D:97:GLY:CA	5:D:114:LEU:HA	1.88	1.04
8:G:336:VAL:HG23	8:G:354:ILE:HD11	1.35	1.04
9:X:47:LEU:HD22	9:X:69:LEU:HB3	1.36	1.04
2:2:49:DT:H3'	9:X:176:HIS:NE2	1.73	1.04
6:E:206:ALA:O	6:E:210:ARG:HD2	1.57	1.04
8:G:378:HIS:CE1	9:X:63:GLU:OE2	2.11	1.04
9:X:131:LEU:CD1	9:X:135:MET:CE	2.36	1.04
3:A:220:GLN:C	3:A:221:LYS:HD2	1.83	1.04
4:B:522:VAL:HG22	4:B:540:ILE:HB	1.38	1.04
4:B:523:VAL:HB	4:B:859:VAL:HG13	1.39	1.04
4:B:687:LYS:HD2	4:B:739:ARG:HD3	1.34	1.04
4:B:1027:CYS:SG	4:B:1084:SER:CB	2.45	1.04
4:B:125:MET:HG2	6:E:515:LEU:HD23	1.04	1.03
4:B:385:MET:HG3	4:B:406:GLN:N	1.71	1.03
4:B:708:LEU:N	4:B:723:ARG:O	1.90	1.03
9:X:131:LEU:HD12	9:X:135:MET:CE	1.87	1.03
9:Y:145:MET:CE	9:Y:192:ARG:HG3	1.88	1.03
1:1:102:DA:C8	8:G:208:THR:HG22	1.93	1.03
3:A:609:ARG:NH2	3:A:637:TYR:O	1.90	1.03
3:A:872:PRO:HA	3:A:961:ASP:HA	1.36	1.03
4:B:311:LEU:CD1	7:F:27:ASN:ND2	2.21	1.03
4:B:646:LEU:HB2	4:B:662:LYS:H	1.19	1.03
4:B:905:MET:HA	4:B:967:ARG:HG3	1.40	1.03
5:D:118:VAL:HG11	5:D:142:ILE:CB	1.87	1.03
3:A:707:ARG:HG3	3:A:710:GLN:OE1	1.56	1.03
4:B:352:LYS:HE2	4:B:358:LYS:HE2	1.35	1.03
3:A:148:TYR:CE1	3:A:322:ASN:ND2	2.21	1.03
3:A:278:ASN:O	3:A:282:ARG:N	1.91	1.03
3:A:546:GLU:OE2	3:A:547:HIS:NE2	1.91	1.03
4:B:250:HIS:HB2	4:B:254:LYS:NZ	1.73	1.03
4:B:385:MET:H	4:B:405:THR:HA	1.24	1.03
4:B:1202:LEU:HD11	4:B:1215:GLU:HG2	1.41	1.03
8:G:110:LEU:HD13	8:G:152:ARG:N	1.73	1.03
9:Y:53:LYS:CG	9:Y:68:LEU:HD23	1.89	1.03
3:A:305:ILE:O	3:A:308:GLU:N	1.91	1.03
4:B:473:THR:CG2	4:B:977:GLY:CA	2.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:603:PHE:HB2	4:B:781:ARG:HD2	1.38	1.03
4:B:648:VAL:HG11	4:B:661:VAL:HG12	1.40	1.03
5:D:184:ARG:HD3	5:D:185:ALA:N	1.72	1.03
8:G:114:GLU:O	8:G:117:ARG:N	1.92	1.03
3:A:736:ILE:CD1	3:A:772:LYS:HD3	1.87	1.02
4:B:303:LEU:HD22	6:E:503:GLY:H	1.22	1.02
4:B:441:ALA:O	4:B:999:PHE:N	1.92	1.02
5:C:9:VAL:HG11	5:C:22:LYS:HD2	1.39	1.02
6:E:538:LEU:O	6:E:539:ASP:C	1.95	1.02
3:A:970:ARG:HD2	4:B:49:VAL:HA	1.40	1.02
6:E:550:ILE:HD12	6:E:610:PRO:CG	1.89	1.02
8:G:327:ASP:HA	8:G:334:ARG:HD3	1.41	1.02
4:B:653:TYR:OH	4:B:656:ALA:HB2	1.57	1.02
4:B:854:GLN:HG2	4:B:875:GLN:HB3	1.42	1.02
4:B:1202:LEU:HG	4:B:1203:ASN:H	1.23	1.02
1:1:58:DA:N1	2:2:68:DT:C4	2.27	1.02
3:A:49:GLU:O	3:A:52:SER:OG	1.78	1.02
3:A:72:TYR:HD1	3:A:74:LEU:HG	0.86	1.02
3:A:654:LYS:HE2	5:C:77:GLU:HG2	1.41	1.02
4:B:93:LYS:CD	4:B:372:HIS:NE2	2.21	1.02
4:B:283:ARG:CD	4:B:298:CYS:CB	2.38	1.02
8:G:120:LEU:HB3	8:G:128:PRO:HG3	1.41	1.02
9:X:202:MET:HE3	9:X:219:SER:HB3	1.36	1.02
1:1:86:DG:C2	2:2:40:DC:N3	2.27	1.02
4:B:304:ALA:HB2	6:E:438:ARG:HH22	0.91	1.02
5:D:79:ILE:CA	5:D:82:MET:HG2	1.90	1.02
4:B:96:ASP:HB2	4:B:422:GLN:OE1	1.60	1.01
4:B:487:VAL:O	4:B:879:LYS:NZ	1.92	1.01
4:B:772:GLN:HA	4:B:792:ARG:O	1.59	1.01
4:B:773:ARG:O	4:B:791:LEU:HA	1.60	1.01
4:B:1027:CYS:SG	4:B:1084:SER:OG	2.14	1.01
5:C:9:VAL:HG12	5:C:22:LYS:HB2	1.07	1.01
5:C:215:GLY:CA	5:D:225:LYS:HE2	1.89	1.01
6:E:67:LYS:CB	6:E:70:GLU:OE1	2.08	1.01
6:E:265:GLY:HA3	8:G:278:LYS:HE3	1.37	1.01
9:X:33:THR:HG21	9:X:91:HIS:CE1	1.94	1.01
1:1:98:DG:H5'	1:1:98:DG:C8	1.95	1.01
3:A:96:TYR:HA	3:A:115:PHE:HA	1.41	1.01
3:A:334:ASN:OD1	3:A:335:GLN:N	1.94	1.01
4:B:26:THR:OG1	4:B:27:ALA:N	1.82	1.01
4:B:453:VAL:HG23	4:B:988:VAL:HG22	1.04	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:760:GLN:HE22	4:B:806:GLU:HB2	1.23	1.01
4:B:1160:THR:N	4:B:1180:MET:HE1	1.74	1.01
4:B:1231:TRP:HA	6:E:11:TYR:HA	1.40	1.01
5:D:118:VAL:HG12	5:D:142:ILE:HG21	1.42	1.01
6:E:412:ASP:OD1	6:E:413:PRO:HD2	1.60	1.01
8:G:146:TYR:CE1	8:G:150:ILE:HD11	1.95	1.01
8:G:162:ASN:O	8:G:163:LEU:HG	1.57	1.01
9:Y:54:LEU:HB3	9:Y:67:ALA:HB3	1.38	1.01
1:1:72:DT:C7	9:X:187:ARG:CZ	2.33	1.01
3:A:653:GLN:HG2	3:A:671:ASP:C	1.85	1.01
4:B:687:LYS:CD	4:B:739:ARG:CD	2.37	1.01
4:B:1028:ILE:HD13	4:B:1088:SER:CB	1.88	1.01
4:B:1037:LYS:HD2	4:B:1052:ILE:HG22	1.38	1.01
8:G:146:TYR:HE1	8:G:150:ILE:HD11	1.19	1.01
3:A:1054:ALA:HB1	3:A:1059:LYS:HZ3	1.20	1.01
4:B:384:ILE:HG21	4:B:394:SER:N	1.74	1.01
4:B:473:THR:HG21	4:B:977:GLY:HA2	1.40	1.01
4:B:1231:TRP:NE1	6:E:11:TYR:CD2	2.29	1.01
5:C:159:THR:HG22	5:C:163:PHE:CD2	1.92	1.01
5:D:84:GLU:OE1	5:D:84:GLU:N	1.94	1.01
9:Y:143:ARG:HA	9:Y:148:ARG:NH2	1.74	1.01
3:A:199:LEU:HD22	3:A:229:PHE:CE2	1.96	1.01
3:A:333:GLN:O	3:A:336:VAL:HG12	1.59	1.01
3:A:1028:PHE:HD2	6:E:491:MET:HE2	1.23	1.01
4:B:490:LEU:H	4:B:895:ARG:HG3	0.87	1.01
6:E:512:ASP:O	6:E:515:LEU:N	1.94	1.01
8:G:287:GLU:OE1	8:G:287:GLU:N	1.93	1.01
8:G:351:LEU:HA	8:G:354:ILE:HG22	1.42	1.01
9:X:179:ILE:HG22	9:X:189:THR:CG2	1.88	1.01
9:Y:135:MET:O	9:Y:136:MET:CG	2.08	1.01
3:A:616:THR:O	3:A:633:GLN:NE2	1.92	1.00
3:A:735:GLU:CA	3:A:772:LYS:HG3	1.91	1.00
3:A:1055:ILE:HG13	3:A:1056:VAL:N	1.73	1.00
4:B:250:HIS:NE2	4:B:255:GLU:O	1.94	1.00
5:C:79:ILE:HA	5:C:82:MET:HG2	1.01	1.00
5:C:102:ASN:HA	5:C:130:ILE:HD13	1.43	1.00
8:G:336:VAL:HG22	8:G:354:ILE:CD1	1.89	1.00
3:A:53:PHE:CE2	3:A:340:LEU:HB3	1.94	1.00
4:B:347:GLN:HG2	4:B:411:TYR:HE2	1.25	1.00
4:B:473:THR:HG22	4:B:978:ALA:N	1.76	1.00
4:B:855:THR:HA	4:B:873:ARG:HB2	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:77:GLU:HA	5:C:80:MET:HG2	1.39	1.00
5:C:84:GLU:OE1	5:C:84:GLU:N	1.94	1.00
5:D:97:GLY:HA3	5:D:114:LEU:HA	1.04	1.00
9:X:75:PHE:HE2	9:X:100:LEU:HD22	1.21	1.00
3:A:600:TYR:HD2	3:A:607:ARG:HB2	1.24	1.00
3:A:602:ASP:OD1	3:A:603:ALA:N	1.93	1.00
4:B:653:TYR:CD1	4:B:671:VAL:HA	1.96	1.00
4:B:1022:LYS:HG2	4:B:1091:HIS:CD2	1.97	1.00
5:D:79:ILE:HA	5:D:82:MET:HG2	1.01	1.00
9:Y:194:LEU:O	9:Y:197:LEU:HG	1.61	1.00
4:B:726:GLN:HB2	4:B:737:LEU:HB3	1.43	1.00
9:X:176:HIS:HA	9:X:179:ILE:HD12	1.44	1.00
9:Y:46:PHE:HA	9:Y:74:VAL:HA	1.44	1.00
9:Y:204:SER:N	9:Y:211:THR:OG1	1.94	1.00
3:A:252:GLY:HA2	3:A:255:GLN:NE2	1.76	1.00
4:B:453:VAL:CG2	4:B:988:VAL:HG13	1.90	1.00
4:B:1151:LYS:HE2	4:B:1169:GLU:HG2	1.43	1.00
8:G:338:ARG:HG2	8:G:343:LEU:CB	1.90	1.00
9:X:30:ARG:HG2	9:X:97:PRO:HD3	1.02	1.00
4:B:473:THR:HG22	4:B:977:GLY:CA	1.91	1.00
5:D:77:GLU:HA	5:D:80:MET:HG2	1.40	1.00
6:E:47:TYR:CE1	6:E:48:ARG:HG3	1.96	1.00
3:A:607:ARG:HA	3:A:609:ARG:CG	1.92	1.00
4:B:1111:SER:O	4:B:1114:LEU:N	1.95	1.00
1:1:86:DG:C2	2:2:40:DC:C2	2.50	0.99
3:A:1077:LEU:CB	3:A:1082:LEU:CD1	2.38	0.99
9:Y:213:HIS:HB3	9:Y:214:LYS:HZ3	1.27	0.99
3:A:51:ASN:ND2	3:A:69:GLY:O	1.94	0.99
3:A:258:ASP:OD1	3:A:259:SER:N	1.94	0.99
3:A:789:ARG:O	3:A:792:PHE:N	1.94	0.99
4:B:286:LEU:CD2	4:B:1142:GLU:HG3	1.93	0.99
5:C:9:VAL:HG13	5:C:22:LYS:HB2	1.44	0.99
9:X:42:GLU:O	9:X:78:LEU:CB	2.10	0.99
9:X:78:LEU:HD21	9:X:88:ARG:HD3	1.45	0.99
1:1:118:DG:N2	2:2:8:DC:O2	1.95	0.99
3:A:609:ARG:O	3:A:633:GLN:N	1.95	0.99
4:B:359:LEU:CG	4:B:387:LEU:H	1.75	0.99
5:C:79:ILE:CA	5:C:82:MET:HG2	1.90	0.99
8:G:343:LEU:O	8:G:344:ASP:OD1	1.80	0.99
9:X:33:THR:HG21	9:X:91:HIS:HE1	1.20	0.99
1:1:119:DA:C2	2:2:7:DT:N3	2.29	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:267:ASP:OD1	4:B:268:LEU:N	1.95	0.99
4:B:687:LYS:HD3	4:B:739:ARG:HD3	1.45	0.99
4:B:766:ILE:CD1	4:B:799:ILE:HD12	1.92	0.99
6:E:419:LEU:O	6:E:422:VAL:N	1.95	0.99
9:X:42:GLU:HA	9:X:78:LEU:HD13	1.41	0.99
9:X:47:LEU:HA	9:X:100:LEU:CD2	1.91	0.99
4:B:93:LYS:HD2	4:B:370:THR:HB	1.44	0.99
6:E:594:ARG:HG3	6:E:603:SER:HB3	1.42	0.99
3:A:70:HIS:CE1	3:A:71:ASN:CG	2.41	0.99
3:A:215:HIS:ND1	3:A:309:TYR:CE2	2.30	0.99
3:A:558:ASN:O	3:A:561:ARG:N	1.95	0.99
4:B:101:THR:HG22	4:B:420:LYS:HB3	1.43	0.99
9:X:30:ARG:HG2	9:X:97:PRO:CD	1.93	0.99
4:B:283:ARG:CD	4:B:298:CYS:CA	2.40	0.99
4:B:517:THR:O	4:B:518:ILE:HG13	1.63	0.99
4:B:980:LEU:HA	4:B:995:VAL:HG23	1.44	0.99
1:1:86:DG:C6	2:2:40:DC:N4	2.30	0.99
3:A:609:ARG:HG3	3:A:610:VAL:N	1.67	0.99
3:A:609:ARG:HB2	3:A:635:ILE:C	1.86	0.99
3:A:633:GLN:HB2	3:A:635:ILE:HG12	1.45	0.99
4:B:190:THR:HG23	4:B:191:ALA:H	1.23	0.99
3:A:182:LEU:HD21	3:A:222:THR:OG1	1.63	0.98
3:A:789:ARG:O	3:A:793:GLY:N	1.96	0.98
3:A:828:LEU:HD12	3:A:829:PRO:O	1.63	0.98
4:B:453:VAL:HG21	4:B:988:VAL:CB	1.93	0.98
8:G:110:LEU:HD13	8:G:152:ARG:CB	1.93	0.98
9:X:35:PHE:HE1	9:X:88:ARG:HG2	1.25	0.98
4:B:93:LYS:CE	4:B:375:ASP:CB	2.26	0.98
4:B:147:MET:HG2	4:B:159:ILE:HD13	1.46	0.98
6:E:296:GLU:OE1	6:E:296:GLU:N	1.95	0.98
6:E:481:LEU:H	6:E:481:LEU:HD23	1.26	0.98
6:E:594:ARG:HH21	6:E:602:ILE:HG22	1.27	0.98
2:2:42:DT:H1'	2:2:43:DG:H5'	1.45	0.98
4:B:138:ARG:O	4:B:142:GLY:N	1.96	0.98
6:E:69:TRP:HE1	6:E:82:ARG:HG3	1.27	0.98
6:E:594:ARG:HG3	6:E:603:SER:CB	1.91	0.98
8:G:340:ARG:NH2	8:G:369:GLU:CG	2.25	0.98
9:X:42:GLU:HA	9:X:78:LEU:HD12	1.42	0.98
3:A:393:LEU:C	3:A:393:LEU:HD12	1.86	0.98
3:A:454:ASN:O	3:A:457:GLY:N	1.95	0.98
4:B:499:LYS:HB3	4:B:889:LYS:HZ3	0.84	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1119:THR:OG1	4:B:1120:PHE:N	1.77	0.98
5:D:10:GLU:CG	5:D:20:TYR:HE2	1.76	0.98
6:E:542:ILE:O	6:E:545:PHE:N	1.95	0.98
8:G:266:MET:HG2	8:G:273:LEU:HD21	1.00	0.98
9:X:47:LEU:HA	9:X:100:LEU:HD23	1.00	0.98
3:A:762:TRP:NE1	3:A:764:GLU:OE2	1.95	0.98
3:A:1091:THR:HG22	3:A:1093:ALA:N	1.79	0.98
6:E:95:GLU:HG2	6:E:96:SER:H	1.27	0.98
8:G:258:THR:C	8:G:262:ILE:HG12	1.87	0.98
3:A:729:THR:HG22	3:A:731:LEU:H	1.26	0.98
4:B:189:ARG:NH1	4:B:330:LEU:O	1.97	0.98
5:D:10:GLU:HG2	5:D:20:TYR:HE2	1.26	0.98
3:A:180:ASN:OD1	3:A:182:LEU:N	1.96	0.98
3:A:590:ILE:HG23	3:A:669:LEU:HB2	1.41	0.98
3:A:1051:ALA:O	3:A:1054:ALA:N	1.97	0.98
4:B:906:ALA:O	4:B:966:ILE:N	1.97	0.98
4:B:1011:LEU:O	4:B:1014:ILE:N	1.97	0.98
9:X:56:ARG:HD2	9:X:64:ILE:HD11	1.45	0.98
1:1:94:DT:P	6:E:47:TYR:HH	1.84	0.98
6:E:47:TYR:HB3	8:G:231:LEU:HD23	1.41	0.98
9:X:162:VAL:N	9:X:169:THR:O	1.95	0.98
3:A:184:TRP:HB3	3:A:193:LEU:HD12	1.45	0.98
4:B:463:LYS:HG2	4:B:472:THR:HG22	1.00	0.98
4:B:676:GLN:OE1	4:B:678:ASN:N	1.97	0.98
9:Y:78:LEU:CG	9:Y:88:ARG:HH11	1.77	0.98
3:A:704:ILE:HG23	3:A:708:LEU:HD22	1.46	0.97
4:B:1153:ARG:HA	4:B:1167:LEU:HA	1.44	0.97
5:C:214:ALA:HB2	5:D:224:LEU:CD2	1.94	0.97
9:Y:162:VAL:N	9:Y:169:THR:O	1.95	0.97
4:B:479:LEU:HD23	4:B:971:PRO:HB3	1.45	0.97
6:E:332:LYS:NZ	8:G:297:ARG:HH22	1.62	0.97
6:E:400:ASN:OD1	6:E:403:ALA:N	1.97	0.97
4:B:714:LEU:HD11	4:B:736:LEU:HD22	1.41	0.97
6:E:611:GLY:O	6:E:614:ILE:N	1.97	0.97
2:2:47:DT:H2'	2:2:48:DT:H71	1.44	0.97
3:A:58:ASP:HB3	3:A:63:LEU:HB3	1.42	0.97
3:A:606:ILE:C	3:A:609:ARG:HE	1.73	0.97
3:A:734:GLU:O	3:A:772:LYS:HD2	1.63	0.97
4:B:10:LYS:NZ	4:B:14:ARG:HH21	1.62	0.97
4:B:288:CYS:HB3	4:B:295:CYS:SG	2.05	0.97
4:B:653:TYR:HD1	4:B:671:VAL:CA	1.77	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:922:ILE:O	4:B:937:SER:CA	2.11	0.97
8:G:114:GLU:OE2	8:G:115:ARG:HG3	1.64	0.97
1:1:80:DA:H2'	1:1:81:DT:H71	1.44	0.97
4:B:766:ILE:HG12	4:B:799:ILE:HD12	1.00	0.97
5:C:64:GLU:OE1	5:C:64:GLU:N	1.97	0.97
5:C:97:GLY:HA2	5:C:114:LEU:HA	1.46	0.97
8:G:83:ARG:CD	8:G:86:LEU:HD23	1.92	0.97
9:X:145:MET:HB2	9:X:183:ILE:HG21	1.42	0.97
4:B:384:ILE:HG21	4:B:393:GLY:C	1.89	0.97
4:B:928:LEU:HD21	4:B:934:ALA:H	1.27	0.97
4:B:1159:ASP:CB	4:B:1180:MET:HE1	1.94	0.97
5:C:63:HIS:CD2	5:C:65:PHE:H	1.83	0.97
5:C:206:PRO:O	5:C:209:ALA:N	1.98	0.97
4:B:93:LYS:C	4:B:95:ILE:H	1.70	0.97
4:B:196:LEU:O	4:B:199:ARG:N	1.98	0.97
4:B:198:ARG:HH22	6:E:346:ARG:CZ	1.77	0.97
5:D:179:SER:OG	5:D:180:VAL:N	1.83	0.97
3:A:496:PRO:HA	3:A:922:MET:HG2	1.45	0.97
4:B:321:GLN:HA	6:E:436:LEU:CD2	1.95	0.97
6:E:582:GLY:HA2	6:E:596:ASP:HB3	1.46	0.97
4:B:548:GLN:HB3	4:B:567:GLY:H	1.30	0.97
4:B:597:ARG:HG3	4:B:788:VAL:CA	1.95	0.97
4:B:1061:TYR:O	4:B:1061:TYR:CD1	2.18	0.97
4:B:687:LYS:HD2	4:B:739:ARG:NE	1.77	0.96
3:A:176:GLU:OE2	3:A:184:TRP:HD1	1.48	0.96
3:A:779:SER:O	3:A:780:ASP:OD1	1.82	0.96
5:D:10:GLU:CG	5:D:20:TYR:CE2	2.47	0.96
4:B:283:ARG:CD	4:B:298:CYS:HA	1.93	0.96
4:B:614:LYS:HZ1	4:B:621:TYR:HA	1.29	0.96
9:Y:44:VAL:HA	9:Y:76:GLY:CA	1.94	0.96
3:A:684:GLN:HE22	3:A:713:ILE:CG2	1.78	0.96
4:B:606:PHE:CE1	4:B:778:ASP:N	2.34	0.96
5:D:13:THR:CG2	5:D:206:PRO:HD2	1.94	0.96
5:D:64:GLU:OE1	5:D:64:GLU:N	1.97	0.96
7:F:32:THR:O	7:F:35:VAL:N	1.97	0.96
8:G:77:TYR:CE1	8:G:78:THR:HG23	2.00	0.96
9:X:142:HIS:CB	9:X:148:ARG:HG2	1.95	0.96
2:2:48:DT:C6	2:2:49:DT:H72	2.00	0.96
3:A:542:ILE:HG23	3:A:856:HIS:HE1	1.06	0.96
4:B:441:ALA:HB2	4:B:1001:ARG:NH2	1.79	0.96
6:E:402:LYS:HD3	8:G:390:ARG:NH2	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:549:ASP:HB2	3:A:893:MET:HB2	1.45	0.96
3:A:557:SER:OG	3:A:558:ASN:N	1.81	0.96
3:A:667:GLN:HG2	3:A:668:VAL:H	1.26	0.96
3:A:748:LEU:H	3:A:751:LEU:HD12	0.79	0.96
3:A:1028:PHE:CE1	6:E:438:ARG:CA	2.38	0.96
9:Y:47:LEU:HB3	9:Y:69:LEU:HD23	1.44	0.96
9:Y:162:VAL:HG21	9:Y:171:ASP:HB2	1.48	0.96
1:1:81:DT:C4	2:2:45:DA:N6	2.34	0.96
1:1:97:DT:N3	2:2:29:DA:N1	2.14	0.96
1:1:119:DA:N1	2:2:7:DT:C4	2.32	0.96
3:A:80:SER:OG	3:A:83:GLU:N	1.98	0.96
4:B:1159:ASP:CB	4:B:1180:MET:CE	2.43	0.96
5:C:159:THR:CG2	5:C:163:PHE:CG	2.43	0.96
1:1:68:DT:H3	2:2:59:DG:H22	1.07	0.96
9:X:57:VAL:HG12	9:X:91:HIS:H	1.28	0.96
3:A:235:LEU:HB2	3:A:250:VAL:HA	1.45	0.96
4:B:107:ASP:OD1	4:B:108:GLU:N	1.99	0.96
4:B:285:PRO:HB3	4:B:294:VAL:HB	1.48	0.96
4:B:739:ARG:NH1	4:B:781:ARG:NH2	2.11	0.96
5:D:206:PRO:O	5:D:209:ALA:N	1.98	0.96
6:E:412:ASP:CG	6:E:413:PRO:HD2	1.91	0.96
8:G:163:LEU:CD1	8:G:164:ARG:N	2.12	0.96
8:G:356:GLN:HA	8:G:360:VAL:CA	1.96	0.96
1:1:118:DG:O3'	1:1:119:DA:H3'	1.66	0.96
3:A:704:ILE:CG2	3:A:708:LEU:HD22	1.95	0.96
4:B:562:TYR:H	4:B:574:LEU:HD21	1.31	0.96
4:B:688:PRO:HD2	4:B:739:ARG:HD3	1.48	0.96
4:B:988:VAL:HG11	4:B:994:LEU:HD11	1.45	0.96
5:D:63:HIS:CD2	5:D:65:PHE:H	1.83	0.96
1:1:84:DA:C6	2:2:42:DT:O4	2.19	0.95
3:A:399:LYS:O	3:A:401:ARG:N	1.99	0.95
3:A:47:ILE:O	3:A:50:LEU:N	1.99	0.95
4:B:97:THR:OG1	4:B:422:GLN:NE2	1.99	0.95
4:B:366:ARG:HH12	4:B:369:ARG:HB2	1.31	0.95
4:B:1028:ILE:HD13	4:B:1088:SER:HB2	1.45	0.95
4:B:1050:LYS:HB2	4:B:1061:TYR:HA	1.46	0.95
2:2:5:DC:N3	2:2:6:DA:N6	2.14	0.95
3:A:460:GLU:HA	3:A:482:ALA:HA	1.45	0.95
4:B:604:LEU:HB2	4:B:631:TRP:CZ3	2.01	0.95
4:B:1090:PRO:HA	4:B:1093:ILE:HD11	1.48	0.95
3:A:214:ARG:O	3:A:215:HIS:CD2	2.19	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1077:LEU:HB3	3:A:1082:LEU:HD13	1.48	0.95
4:B:490:LEU:H	4:B:895:ARG:CG	1.78	0.95
4:B:1107:TYR:OH	4:B:1174:GLU:HG3	1.64	0.95
5:C:215:GLY:HA2	5:D:225:LYS:CE	1.96	0.95
6:E:418:VAL:O	6:E:421:GLU:N	1.99	0.95
8:G:83:ARG:HD3	8:G:86:LEU:HD23	1.48	0.95
8:G:117:ARG:NE	8:G:134:ALA:O	2.00	0.95
8:G:242:ILE:CG2	8:G:266:MET:CE	2.25	0.95
4:B:283:ARG:HD3	4:B:298:CYS:CB	1.96	0.95
5:C:55:ALA:HB3	5:C:141:ARG:HD2	1.49	0.95
5:C:217:LEU:O	5:C:219:ASP:N	2.00	0.95
6:E:210:ARG:HA	6:E:213:ILE:HG12	1.48	0.95
9:X:176:HIS:ND1	9:X:190:VAL:HG22	1.81	0.95
3:A:735:GLU:HA	3:A:772:LYS:HD2	1.45	0.95
4:B:597:ARG:CG	4:B:788:VAL:HA	1.97	0.95
6:E:392:LEU:HB3	6:E:398:VAL:HB	1.48	0.95
9:Y:145:MET:HE2	9:Y:192:ARG:HG3	1.46	0.95
3:A:994:SER:OG	3:A:995:THR:N	1.90	0.95
4:B:519:HIS:O	4:B:865:ILE:HG22	1.65	0.95
9:X:57:VAL:HB	9:X:91:HIS:HB3	1.45	0.95
2:2:33:DA:H2"	2:2:34:DA:H8	1.31	0.95
4:B:352:LYS:HD3	4:B:358:LYS:HZ1	1.31	0.95
4:B:463:LYS:HZ1	4:B:467:GLN:N	1.64	0.95
4:B:473:THR:CG2	4:B:977:GLY:HA2	1.97	0.95
4:B:523:VAL:HG21	4:B:866:VAL:HG23	1.47	0.95
1:1:71:DT:O5'	9:X:145:MET:CE	2.14	0.95
3:A:144:SER:O	3:A:148:TYR:OH	1.84	0.95
3:A:263:ASP:OD2	3:A:266:ARG:NH1	2.00	0.95
4:B:63:ARG:HH21	4:B:67:GLU:HB3	1.32	0.95
4:B:260:ARG:HG3	4:B:261:ASN:ND2	1.81	0.95
4:B:842:ARG:HD2	4:B:845:ALA:HB2	1.46	0.95
4:B:1014:ILE:HD11	4:B:1128:VAL:HG11	1.45	0.95
4:B:1231:TRP:CD1	6:E:11:TYR:CB	2.50	0.95
3:A:59:TYR:H	3:A:352:THR:HG21	1.31	0.95
3:A:214:ARG:O	3:A:215:HIS:HD2	1.47	0.95
3:A:968:PHE:CZ	4:B:48:GLY:HA3	2.01	0.95
4:B:708:LEU:O	4:B:723:ARG:N	1.99	0.95
8:G:163:LEU:HD11	8:G:164:ARG:HG3	1.48	0.95
4:B:18:SER:OG	4:B:19:TRP:N	1.94	0.94
4:B:352:LYS:CD	4:B:358:LYS:NZ	2.30	0.94
4:B:453:VAL:HG21	4:B:988:VAL:CG2	1.81	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:66:LEU:HD11	4:B:143:MET:SD	2.07	0.94
4:B:359:LEU:HG	4:B:387:LEU:H	0.81	0.94
4:B:361:ARG:HA	4:B:391:LYS:HB2	1.48	0.94
6:E:438:ARG:HH21	6:E:500:PRO:HB3	1.29	0.94
8:G:318:LEU:CA	8:G:388:TYR:CE2	2.26	0.94
4:B:544:VAL:HG22	4:B:758:VAL:H	1.32	0.94
4:B:1145:VAL:O	4:B:1148:MET:N	2.01	0.94
1:1:115:DA:H2	2:2:11:DT:O2	1.47	0.94
3:A:270:GLY:O	3:A:273:GLY:N	2.00	0.94
4:B:714:LEU:HD12	4:B:736:LEU:HD22	1.46	0.94
9:X:143:ARG:N	9:X:148:ARG:HD3	1.81	0.94
4:B:1221:THR:OG1	4:B:1222:GLU:N	1.89	0.94
6:E:501:ALA:O	6:E:502:THR:OG1	1.86	0.94
9:X:179:ILE:CB	9:X:189:THR:CG2	2.25	0.94
1:1:89:DA:N1	2:2:37:DT:C2	2.34	0.94
3:A:64:GLU:H	3:A:103:ASN:HA	1.30	0.94
4:B:1088:SER:OG	4:B:1093:ILE:HG21	1.65	0.94
5:C:13:THR:CG2	5:C:206:PRO:CD	2.45	0.94
8:G:322:LEU:O	8:G:325:VAL:N	1.99	0.94
9:X:37:PRO:HG2	9:X:57:VAL:HG11	1.50	0.94
3:A:174:LYS:CE	3:A:189:LYS:H	1.79	0.94
4:B:77:GLU:HA	4:B:80:TYR:HB3	1.47	0.94
5:C:13:THR:HG21	5:C:206:PRO:CD	1.98	0.94
6:E:560:PHE:O	6:E:604:GLN:CG	2.15	0.94
1:1:79:DA:H2"	1:1:80:DA:H5"	1.48	0.94
3:A:298:LEU:O	3:A:301:VAL:HG22	1.67	0.94
3:A:571:ARG:NE	3:A:679:GLU:OE2	2.00	0.94
3:A:673:SER:OG	3:A:674:SER:N	1.76	0.94
4:B:99:ASN:HB3	4:B:423:LEU:HB2	1.49	0.94
4:B:453:VAL:HG23	4:B:988:VAL:H	1.33	0.94
4:B:773:ARG:HD3	4:B:792:ARG:CB	1.97	0.94
5:D:217:LEU:O	5:D:219:ASP:N	2.00	0.94
6:E:220:LYS:CE	6:E:223:LYS:HD2	1.96	0.94
6:E:320:GLY:O	6:E:321:ARG:NH2	2.01	0.94
8:G:266:MET:HG2	8:G:273:LEU:CD2	1.95	0.94
9:Y:145:MET:HA	9:Y:183:ILE:HD12	1.48	0.94
1:1:71:DT:O5'	9:X:145:MET:HE1	1.68	0.94
3:A:70:HIS:HE1	3:A:71:ASN:HD21	1.11	0.94
3:A:72:TYR:CD1	3:A:74:LEU:HD12	2.00	0.94
4:B:1090:PRO:HA	4:B:1093:ILE:CD1	1.97	0.94
5:C:153:ARG:NH1	5:D:187:GLY:O	2.01	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:17:ARG:CG	5:D:201:ASN:O	2.14	0.94
2:2:43:DG:H1'	2:2:44:DA:C8	2.03	0.94
5:D:139:GLU:N	5:D:139:GLU:OE1	2.01	0.94
9:Y:53:LYS:CG	9:Y:68:LEU:CD2	2.44	0.94
2:2:38:DT:H2"	2:2:39:DT:H71	1.47	0.93
4:B:67:GLU:N	4:B:67:GLU:OE1	2.00	0.93
4:B:216:THR:HG21	4:B:288:CYS:HA	1.50	0.93
5:C:139:GLU:OE1	5:C:139:GLU:N	2.01	0.93
6:E:355:ASP:OD1	6:E:356:TYR:CD2	2.21	0.93
3:A:727:ARG:HH21	3:A:832:ALA:HB2	1.33	0.93
4:B:147:MET:CG	4:B:159:ILE:HD13	1.98	0.93
4:B:488:TYR:OH	4:B:879:LYS:N	2.01	0.93
5:D:184:ARG:CD	5:D:185:ALA:H	1.82	0.93
6:E:533:LYS:C	6:E:556:VAL:HG13	1.93	0.93
1:1:58:DA:H2	2:2:68:DT:N3	1.60	0.93
4:B:385:MET:SD	4:B:406:GLN:CB	2.57	0.93
4:B:479:LEU:HA	4:B:973:ARG:HA	1.51	0.93
4:B:713:GLU:OE1	4:B:716:GLY:N	2.01	0.93
4:B:766:ILE:CG2	4:B:799:ILE:HD11	1.92	0.93
5:D:35:THR:HA	5:D:38:ASN:HB3	1.49	0.93
5:D:40:LEU:O	5:D:43:VAL:N	2.01	0.93
5:D:100:LEU:CD2	5:D:137:GLU:HA	1.98	0.93
1:1:119:DA:H1'	1:1:120:DT:N3	1.84	0.93
3:A:828:LEU:HD13	3:A:832:ALA:CB	1.98	0.93
3:A:1033:THR:OG1	3:A:1034:LEU:N	1.94	0.93
6:E:282:ARG:HH11	6:E:305:MET:HB3	1.31	0.93
6:E:331:LEU:HD12	6:E:331:LEU:N	1.82	0.93
9:X:47:LEU:CD1	9:X:100:LEU:HD21	1.98	0.93
3:A:1039:THR:O	3:A:1042:SER:N	2.00	0.93
4:B:499:LYS:CB	4:B:889:LYS:NZ	2.25	0.93
4:B:613:LYS:HA	4:B:617:ALA:HB2	1.50	0.93
8:G:130:ASP:OD1	8:G:131:SER:N	2.01	0.93
1:1:89:DA:N6	2:2:37:DT:O4	2.02	0.93
4:B:271:GLU:O	4:B:274:LYS:N	2.01	0.93
4:B:760:GLN:HG2	4:B:764:ARG:HE	1.29	0.93
3:A:425:SER:HB2	3:A:484:GLU:CD	1.93	0.93
3:A:734:GLU:HG2	3:A:772:LYS:HZ3	1.24	0.93
4:B:661:VAL:O	4:B:664:ILE:N	2.02	0.93
4:B:671:VAL:O	4:B:687:LYS:HB3	1.67	0.93
5:D:107:ILE:HD13	5:D:136:LEU:CD2	1.97	0.93
3:A:1087:HIS:HB3	3:A:1098:LEU:HD23	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:96:ASP:C	4:B:422:GLN:HA	1.92	0.93
4:B:895:ARG:O	4:B:989:GLN:NE2	2.02	0.93
6:E:296:GLU:O	6:E:299:VAL:N	2.02	0.93
6:E:511:GLN:O	6:E:514:VAL:N	2.00	0.93
8:G:110:LEU:HD13	8:G:152:ARG:HB3	1.47	0.93
8:G:146:TYR:CE1	8:G:150:ILE:HD12	2.00	0.93
1:1:99:DT:H1'	8:G:212:TRP:CH2	2.04	0.93
4:B:89:GLU:HA	4:B:369:ARG:C	1.94	0.93
4:B:193:SER:O	4:B:196:LEU:N	2.02	0.93
1:1:89:DA:N6	2:2:37:DT:N3	1.95	0.93
1:1:102:DA:H8	8:G:208:THR:CG2	1.82	0.93
3:A:1054:ALA:CB	3:A:1059:LYS:NZ	2.31	0.93
4:B:522:VAL:HG23	4:B:524:ARG:H	1.32	0.93
5:D:10:GLU:HG2	5:D:20:TYR:CE2	2.03	0.93
6:E:188:ILE:HD11	6:E:300:ARG:HE	1.31	0.93
8:G:351:LEU:CA	8:G:354:ILE:HG22	1.98	0.93
3:A:455:GLN:OE1	3:A:455:GLN:N	2.02	0.92
4:B:70:GLU:O	4:B:73:ILE:HG12	1.68	0.92
4:B:597:ARG:HG3	4:B:788:VAL:HA	1.47	0.92
5:D:104:PRO:HA	5:D:131:ALA:HA	1.51	0.92
5:D:168:SER:OG	5:D:169:ILE:N	1.86	0.92
6:E:216:ALA:CA	6:E:219:GLN:HG2	1.99	0.92
6:E:359:ARG:NH2	6:E:472:GLN:OE1	2.01	0.92
9:X:154:LEU:HD12	9:X:157:CYS:SG	2.09	0.92
2:2:66:DA:H1'	2:2:67:DA:C6	2.04	0.92
4:B:361:ARG:HG3	4:B:390:ARG:HG2	1.50	0.92
5:D:148:TYR:OH	5:D:171:MET:HA	1.68	0.92
8:G:340:ARG:HH21	8:G:369:GLU:CG	1.79	0.92
9:X:145:MET:HE2	9:Y:143:ARG:NH2	1.84	0.92
3:A:1017:PHE:CZ	3:A:1025:LEU:HD11	2.05	0.92
4:B:1028:ILE:CD1	4:B:1088:SER:HB2	1.99	0.92
9:X:213:HIS:HB3	9:X:214:LYS:HZ3	1.34	0.92
9:Y:206:HIS:ND1	9:Y:209:LYS:HB2	1.85	0.92
1:1:80:DA:C6	2:2:46:DT:O4	2.22	0.92
3:A:968:PHE:CE1	4:B:48:GLY:HA3	2.04	0.92
5:C:32:GLN:OE1	5:D:220:LEU:HD21	1.70	0.92
5:D:55:ALA:HB3	5:D:141:ARG:HD2	1.49	0.92
6:E:296:GLU:CD	6:E:296:GLU:H	1.75	0.92
8:G:361:THR:OG1	8:G:365:ILE:HD11	1.69	0.92
1:1:84:DA:C6	2:2:42:DT:C4	2.57	0.92
3:A:600:TYR:N	3:A:607:ARG:O	2.02	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:78:LEU:HD21	9:Y:88:ARG:CG	1.65	0.92
3:A:366:ASN:OD1	3:A:368:LYS:N	2.02	0.92
3:A:900:GLU:OE1	3:A:900:GLU:N	2.02	0.92
4:B:360:PRO:HA	4:B:390:ARG:HB3	1.49	0.92
5:C:168:SER:OG	5:C:169:ILE:N	1.86	0.92
5:D:97:GLY:HA3	5:D:114:LEU:CA	1.99	0.92
6:E:305:MET:O	6:E:308:GLU:N	2.02	0.92
3:A:498:ASP:HB3	3:A:502:TYR:O	1.69	0.92
3:A:512:TYR:N	3:A:515:GLU:O	2.02	0.92
4:B:29:THR:OG1	4:B:30:ALA:N	1.89	0.92
4:B:265:SER:OG	4:B:266:ASP:OD1	1.86	0.92
4:B:671:VAL:O	4:B:687:LYS:CB	2.16	0.92
4:B:687:LYS:HD2	4:B:739:ARG:CZ	1.99	0.92
8:G:315:LYS:O	8:G:318:LEU:N	2.03	0.92
3:A:797:ARG:NE	3:A:798:ASP:OD1	2.02	0.92
5:C:40:LEU:O	5:C:43:VAL:N	2.01	0.92
6:E:334:LEU:O	6:E:337:ILE:HG22	1.68	0.92
9:X:98:VAL:HG11	9:X:100:LEU:HD12	1.49	0.92
1:1:87:DA:N6	2:2:39:DT:C4	2.38	0.92
3:A:227:GLY:HA2	3:A:229:PHE:CE2	2.04	0.92
3:A:330:GLU:OE1	3:A:330:GLU:N	2.03	0.92
7:F:32:THR:O	7:F:35:VAL:HG12	1.67	0.92
8:G:336:VAL:HG23	8:G:354:ILE:CD1	1.96	0.92
1:1:88:DA:C2	2:2:38:DT:N3	2.38	0.92
3:A:41:PHE:O	3:A:45:GLY:N	2.03	0.92
3:A:59:TYR:CE1	3:A:348:ARG:HG3	2.05	0.92
3:A:1032:TYR:OH	4:B:1249:THR:HG23	1.70	0.92
4:B:93:LYS:C	4:B:95:ILE:N	2.18	0.92
1:1:78:DA:N1	2:2:48:DT:N3	2.18	0.91
4:B:772:GLN:HB3	4:B:791:LEU:HD11	1.50	0.91
5:D:98:ARG:HB2	5:D:113:ASP:HB3	1.51	0.91
6:E:216:ALA:HB2	6:E:219:GLN:HG3	1.52	0.91
3:A:302:ASP:O	3:A:305:ILE:N	2.02	0.91
3:A:913:ARG:O	3:A:914:PHE:HD1	1.51	0.91
4:B:176:SER:OG	4:B:177:TYR:N	1.94	0.91
3:A:542:ILE:CG2	3:A:856:HIS:CE1	2.38	0.91
4:B:37:LYS:HG3	4:B:38:ASP:N	1.83	0.91
4:B:311:LEU:HD12	7:F:27:ASN:HD22	1.20	0.91
4:B:928:LEU:HG	4:B:933:PHE:HA	1.52	0.91
5:D:13:THR:HA	5:D:19:HIS:HA	1.50	0.91
8:G:232:PRO:HB3	8:G:234:HIS:CE1	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1126:GLN:O	4:B:1129:TYR:N	2.02	0.91
6:E:47:TYR:HB2	8:G:231:LEU:CD2	1.98	0.91
6:E:494:SER:OG	6:E:495:ASN:N	1.83	0.91
1:1:78:DA:N6	2:2:48:DT:C4	2.38	0.91
3:A:72:TYR:CE1	3:A:74:LEU:HD12	2.05	0.91
3:A:617:ALA:C	3:A:620:LYS:H	1.78	0.91
4:B:443:LYS:C	4:B:996:LEU:HD13	1.96	0.91
4:B:631:TRP:HD1	4:B:633:PRO:HG3	1.29	0.91
6:E:362:ILE:HG12	6:E:432:ARG:HH22	1.35	0.91
6:E:510:SER:OG	6:E:511:GLN:N	1.92	0.91
3:A:44:GLU:O	3:A:46:LEU:N	2.04	0.91
3:A:58:ASP:OD2	3:A:60:THR:OG1	1.89	0.91
3:A:615:PRO:HG2	3:A:616:THR:HG22	1.52	0.91
4:B:125:MET:CG	6:E:515:LEU:HD21	1.90	0.91
5:D:58:ILE:HG22	5:D:60:GLY:H	1.35	0.91
9:Y:33:THR:HA	9:Y:93:VAL:HA	1.50	0.91
1:1:75:DA:N1	2:2:51:DT:N3	1.78	0.91
3:A:602:ASP:OD2	5:C:70:GLY:N	2.03	0.91
4:B:490:LEU:HD13	4:B:892:GLU:HG3	1.51	0.91
4:B:687:LYS:CG	4:B:739:ARG:HD3	2.01	0.91
4:B:822:LEU:HA	4:B:826:ASP:HA	1.53	0.91
6:E:41:LYS:HE3	6:E:43:GLU:OE2	1.71	0.91
6:E:145:TYR:HB2	6:E:162:LEU:HB2	1.51	0.91
6:E:515:LEU:C	6:E:515:LEU:HD12	1.94	0.91
3:A:249:THR:O	3:A:252:GLY:N	2.03	0.91
3:A:820:PHE:HB2	3:A:835:VAL:HB	1.49	0.91
4:B:89:GLU:HB3	4:B:371:ARG:HB2	1.50	0.91
8:G:292:LYS:O	8:G:293:GLU:CG	2.18	0.91
4:B:525:LEU:HA	4:B:859:VAL:HG21	1.53	0.91
4:B:631:TRP:HD1	4:B:633:PRO:CG	1.84	0.91
5:D:62:SER:OG	5:D:63:HIS:ND1	2.04	0.91
6:E:28:ARG:NE	6:E:102:ARG:HD2	1.85	0.91
3:A:721:LYS:O	3:A:722:TYR:CD1	2.24	0.91
3:A:1028:PHE:HE1	6:E:438:ARG:CB	1.66	0.91
4:B:1245:ILE:HG22	4:B:1247:ALA:H	1.31	0.91
9:X:47:LEU:CD2	9:X:69:LEU:CB	2.41	0.91
5:C:62:SER:OG	5:C:63:HIS:ND1	2.04	0.90
3:A:100:ARG:HG2	3:A:101:LEU:N	1.87	0.90
4:B:616:LYS:HG2	4:B:619:LEU:O	1.70	0.90
6:E:188:ILE:CD1	6:E:300:ARG:HE	1.83	0.90
6:E:220:LYS:HD2	6:E:223:LYS:HD2	0.93	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:370:ILE:HG22	6:E:457:HIS:CG	2.06	0.90
8:G:114:GLU:OE2	8:G:115:ARG:CG	2.18	0.90
9:X:35:PHE:CE1	9:X:88:ARG:HG2	2.05	0.90
2:2:63:DC:H41	9:Y:187:ARG:HD2	1.36	0.90
3:A:1017:PHE:CE2	3:A:1025:LEU:HD12	2.05	0.90
6:E:42:PRO:O	6:E:57:LEU:HD23	1.72	0.90
3:A:600:TYR:O	3:A:607:ARG:N	2.04	0.90
3:A:1077:LEU:HB3	3:A:1082:LEU:HD11	1.51	0.90
4:B:250:HIS:HE1	4:B:252:LYS:HD2	1.33	0.90
4:B:453:VAL:CG2	4:B:988:VAL:CG1	2.47	0.90
5:C:101:VAL:HB	5:C:136:LEU:CD1	2.00	0.90
4:B:99:ASN:HB3	4:B:423:LEU:CB	2.01	0.90
4:B:590:GLU:OE2	4:B:792:ARG:NH1	2.04	0.90
5:C:183:VAL:HG22	5:C:193:ARG:HG3	1.51	0.90
6:E:526:GLY:O	6:E:528:THR:HG23	1.70	0.90
8:G:138:GLN:OE1	8:G:138:GLN:N	2.04	0.90
1:1:100:DA:C4	8:G:204:TYR:OH	2.24	0.90
1:1:123:DA:N6	2:2:3:DT:O4	2.04	0.90
8:G:258:THR:HG1	8:G:262:ILE:HD11	1.31	0.90
8:G:378:HIS:ND1	9:X:57:VAL:CG2	2.33	0.90
3:A:62:LYS:O	3:A:105:GLU:N	2.05	0.90
4:B:93:LYS:HZ1	4:B:415:GLY:HA2	1.26	0.90
4:B:283:ARG:HD3	4:B:298:CYS:HB3	1.50	0.90
4:B:455:PHE:HA	4:B:481:TRP:HE3	1.34	0.90
5:C:58:ILE:HG22	5:C:60:GLY:H	1.35	0.90
6:E:316:ASN:N	6:E:333:SER:OG	2.04	0.90
6:E:509:PRO:CA	6:E:513:MET:HE3	2.00	0.90
6:E:530:GLY:O	6:E:556:VAL:CG2	2.20	0.90
6:E:564:VAL:HG12	6:E:565:GLU:C	1.95	0.90
9:Y:161:GLY:HA2	9:Y:170:ILE:HD13	1.54	0.90
4:B:482:ILE:HG22	4:B:970:ARG:H	1.35	0.90
5:C:188:SER:O	5:C:189:ILE:HG13	1.72	0.90
8:G:185:GLN:O	8:G:188:SER:N	2.05	0.90
2:2:30:DG:C2	2:2:31:DA:H1'	2.05	0.90
3:A:96:TYR:CE2	3:A:115:PHE:HD1	1.89	0.90
3:A:589:VAL:HA	3:A:653:GLN:HE22	1.36	0.90
3:A:764:GLU:N	3:A:767:ASP:OD2	2.04	0.90
4:B:283:ARG:HG2	4:B:298:CYS:HB2	0.90	0.90
4:B:322:SER:OG	4:B:323:ILE:N	1.87	0.90
4:B:1155:ASP:HB2	4:B:1189:GLN:HB2	1.54	0.90
6:E:420:GLU:OE1	6:E:420:GLU:N	2.03	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:6:DA:H3'	2:2:7:DT:H72	1.55	0.89
3:A:189:LYS:HG3	3:A:190:THR:H	1.34	0.89
3:A:720:GLU:OE2	3:A:721:LYS:N	2.04	0.89
4:B:106:LYS:CE	4:B:138:ARG:HD3	2.02	0.89
4:B:207:VAL:HG13	4:B:293:SER:CA	2.01	0.89
4:B:604:LEU:HB2	4:B:631:TRP:CE3	2.06	0.89
4:B:764:ARG:HH11	4:B:834:ILE:HD11	1.34	0.89
4:B:1117:VAL:O	4:B:1120:PHE:HB3	1.71	0.89
5:D:213:ALA:O	5:D:216:ILE:N	2.05	0.89
6:E:407:LEU:HD11	6:E:412:ASP:HB2	1.54	0.89
8:G:263:ALA:HA	8:G:266:MET:HB3	1.50	0.89
9:Y:35:PHE:CD2	9:Y:92:ALA:HB2	2.06	0.89
3:A:142:VAL:O	3:A:324:ARG:N	2.05	0.89
3:A:607:ARG:CA	3:A:609:ARG:HG2	2.01	0.89
3:A:613:GLN:HG2	3:A:614:LEU:H	1.37	0.89
4:B:597:ARG:HD3	4:B:788:VAL:HG13	1.52	0.89
6:E:196:LEU:O	6:E:199:ASP:HB3	1.72	0.89
6:E:370:ILE:HG13	6:E:371:HIS:ND1	1.86	0.89
9:X:176:HIS:CG	9:X:190:VAL:CG2	2.55	0.89
3:A:717:ILE:O	3:A:718:HIS:ND1	2.05	0.89
4:B:360:PRO:CB	4:B:390:ARG:HD3	2.01	0.89
5:D:19:HIS:HB3	5:D:206:PRO:CD	2.03	0.89
9:Y:78:LEU:HD11	9:Y:88:ARG:HD2	0.90	0.89
2:2:27:DA:H2"	8:G:237:GLU:CD	1.97	0.89
3:A:109:ILE:HG13	3:A:110:LYS:N	1.87	0.89
4:B:26:THR:O	4:B:29:THR:N	2.04	0.89
4:B:250:HIS:CE1	4:B:254:LYS:O	2.26	0.89
4:B:552:THR:HG1	4:B:563:LEU:HD12	1.32	0.89
4:B:688:PRO:HD2	4:B:739:ARG:HD2	1.53	0.89
5:C:79:ILE:O	5:C:82:MET:N	2.06	0.89
5:D:62:SER:OG	5:D:63:HIS:N	2.02	0.89
5:D:208:GLU:OE1	5:D:208:GLU:N	2.05	0.89
4:B:414:ASP:OD1	4:B:415:GLY:N	2.05	0.89
4:B:439:GLU:O	4:B:1001:ARG:N	2.05	0.89
4:B:484:SER:OG	4:B:904:ASP:OD1	1.89	0.89
4:B:846:ALA:HA	4:B:852:SER:HB2	1.52	0.89
4:B:1159:ASP:HB2	4:B:1180:MET:HE1	1.51	0.89
8:G:100:GLU:HA	8:G:103:LEU:HD12	1.53	0.89
3:A:222:THR:HG23	3:A:224:GLU:C	1.98	0.89
3:A:743:VAL:HG11	3:A:748:LEU:HD23	1.54	0.89
5:C:77:GLU:O	5:C:80:MET:N	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:217:LEU:O	5:C:220:LEU:N	2.06	0.89
5:D:74:ASP:OD1	5:D:75:VAL:N	2.06	0.89
5:D:79:ILE:O	5:D:82:MET:N	2.06	0.89
6:E:296:GLU:O	6:E:298:ILE:N	2.05	0.89
6:E:536:ALA:HA	6:E:559:ARG:HB3	1.55	0.89
8:G:190:GLY:O	8:G:193:ARG:N	2.06	0.89
3:A:429:ARG:NH1	3:A:484:GLU:HG3	1.88	0.89
3:A:912:VAL:HG22	3:A:914:PHE:CE1	2.08	0.89
4:B:10:LYS:HZ2	4:B:14:ARG:HH21	1.20	0.89
4:B:723:ARG:HD2	4:B:738:SER:HB3	1.54	0.89
5:D:17:ARG:HG2	5:D:201:ASN:C	1.98	0.89
8:G:326:LEU:HD21	8:G:343:LEU:HD21	1.54	0.89
9:X:161:GLY:HA2	9:X:170:ILE:HD13	1.54	0.89
9:Y:121:LEU:HA	9:Y:124:ARG:HH12	1.37	0.89
1:1:87:DA:H2'	1:1:87:DA:OP2	1.72	0.89
3:A:546:GLU:HB3	3:A:919:PHE:H	1.34	0.89
3:A:928:SER:HA	3:A:931:ILE:HD12	1.53	0.89
4:B:36:LEU:C	4:B:36:LEU:HD12	1.96	0.89
4:B:1081:GLN:NE2	4:B:1082:PRO:O	2.06	0.89
8:G:121:SER:HA	8:G:127:ASP:HA	1.54	0.89
9:X:154:LEU:HA	9:X:157:CYS:SG	2.12	0.89
9:Y:48:LEU:O	9:Y:49:LYS:HD2	1.73	0.89
3:A:39:ARG:C	3:A:43:GLU:OE1	2.16	0.89
4:B:144:ARG:HB2	4:B:159:ILE:HB	1.53	0.89
4:B:521:GLY:HA2	4:B:760:GLN:CB	2.02	0.89
4:B:583:GLN:HG3	4:B:584:ASN:H	1.34	0.89
3:A:489:ARG:CB	3:A:524:VAL:HA	2.03	0.89
4:B:265:SER:OG	4:B:266:ASP:N	2.04	0.89
4:B:922:ILE:HD13	4:B:936:GLU:HB3	1.55	0.89
6:E:314:ILE:H	6:E:314:ILE:HD12	1.36	0.89
8:G:336:VAL:HG22	8:G:354:ILE:HD11	1.47	0.89
1:1:85:DG:O6	2:2:40:DC:N4	2.06	0.88
4:B:1081:GLN:NE2	4:B:1085:ASP:OD1	2.06	0.88
1:1:73:DA:H1'	1:1:74:DT:O5'	1.72	0.88
4:B:100:GLY:HA3	4:B:421:GLY:C	1.98	0.88
4:B:173:ILE:O	4:B:176:SER:OG	1.88	0.88
4:B:210:ARG:HD2	4:B:210:ARG:N	1.86	0.88
5:C:28:LEU:HD11	5:C:194:LEU:HB2	1.53	0.88
5:D:28:LEU:HD11	5:D:194:LEU:HB2	1.52	0.88
6:E:550:ILE:HD11	6:E:610:PRO:HB3	1.55	0.88
1:1:86:DG:C6	2:2:40:DC:N3	2.41	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:156:ASN:OD1	3:A:157:GLY:N	2.06	0.88
4:B:913:LYS:HB2	4:B:915:LYS:HG2	1.54	0.88
4:B:939:GLN:O	4:B:967:ARG:N	2.05	0.88
5:C:208:GLU:OE1	5:C:208:GLU:N	2.05	0.88
8:G:249:LEU:HG	8:G:262:ILE:HD12	1.54	0.88
9:X:37:PRO:CG	9:X:57:VAL:HG11	2.04	0.88
9:X:166:ASP:OD1	9:X:167:GLY:N	2.05	0.88
2:2:50:DG:OP2	9:X:190:VAL:HG13	1.72	0.88
4:B:463:LYS:HZ1	4:B:467:GLN:H	0.95	0.88
5:C:194:LEU:C	5:C:195:LEU:HD12	1.98	0.88
6:E:188:ILE:CD1	6:E:300:ARG:NE	2.37	0.88
6:E:550:ILE:HD12	6:E:610:PRO:HG3	1.55	0.88
3:A:597:ASP:OD1	3:A:662:ARG:NE	2.05	0.88
4:B:90:ARG:HA	4:B:372:HIS:HD2	1.38	0.88
4:B:488:TYR:HB3	4:B:490:LEU:HD21	1.56	0.88
4:B:536:GLU:CA	4:B:838:LEU:O	2.21	0.88
5:C:74:ASP:OD1	5:C:75:VAL:N	2.06	0.88
5:C:86:ILE:O	5:C:121:ILE:HG12	1.74	0.88
5:C:213:ALA:O	5:C:216:ILE:N	2.05	0.88
6:E:228:LEU:O	6:E:231:ILE:N	2.07	0.88
6:E:486:GLU:OE1	6:E:486:GLU:N	2.07	0.88
8:G:120:LEU:HD23	8:G:128:PRO:HB3	1.55	0.88
3:A:345:ARG:O	3:A:348:ARG:N	2.05	0.88
4:B:201:VAL:HG13	4:B:202:ASP:N	1.85	0.88
4:B:1160:THR:HG21	4:B:1190:TYR:OH	1.73	0.88
2:2:57:DT:H1'	2:2:58:DA:C4	2.08	0.88
3:A:735:GLU:HA	3:A:772:LYS:CD	2.04	0.88
5:D:77:GLU:O	5:D:80:MET:N	2.06	0.88
6:E:94:THR:OG1	6:E:98:VAL:HG21	1.73	0.88
9:Y:80:LEU:HD12	9:Y:81:LEU:N	1.88	0.88
1:1:80:DA:H2"	1:1:81:DT:H5'	1.56	0.88
3:A:199:LEU:HD23	3:A:229:PHE:CE2	2.05	0.88
3:A:1017:PHE:HE2	3:A:1025:LEU:HD12	1.35	0.88
4:B:581:LYS:HG3	4:B:814:ALA:HB3	1.53	0.88
4:B:1244:LEU:O	4:B:1245:ILE:HG13	1.74	0.88
5:C:183:VAL:CG2	5:C:193:ARG:HG3	2.03	0.88
6:E:76:TYR:CD2	6:E:81:HIS:CD2	2.61	0.88
7:F:32:THR:OG1	7:F:33:VAL:N	1.98	0.88
9:Y:53:LYS:HG2	9:Y:68:LEU:HD22	1.54	0.88
3:A:557:SER:OG	3:A:558:ASN:OD1	1.92	0.88
3:A:767:ASP:N	3:A:767:ASP:OD1	1.99	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:93:LYS:HE2	4:B:375:ASP:HB2	0.88	0.88
4:B:443:LYS:H	4:B:997:LEU:H	1.19	0.88
4:B:800:GLU:HG2	4:B:801:GLN:H	1.38	0.88
3:A:67:PHE:CE1	3:A:99:THR:HB	2.07	0.88
3:A:881:ASP:OD1	3:A:881:ASP:N	1.96	0.88
4:B:223:ARG:HG3	4:B:279:GLU:HG3	1.55	0.88
4:B:1090:PRO:HA	4:B:1093:ILE:CG1	2.03	0.88
5:D:205:SER:N	5:D:208:GLU:OE2	2.06	0.88
8:G:135:GLU:OE1	8:G:135:GLU:N	2.07	0.88
8:G:149:HIS:CE1	8:G:153:ARG:HD3	2.09	0.88
8:G:320:GLU:O	8:G:323:GLU:N	2.07	0.88
9:Y:32:LYS:HB3	9:Y:94:ALA:HB3	1.55	0.88
9:Y:166:ASP:OD1	9:Y:167:GLY:N	2.05	0.88
1:1:86:DG:C6	2:2:40:DC:C4	2.61	0.87
1:1:87:DA:N1	2:2:39:DT:C4	2.41	0.87
3:A:1077:LEU:C	3:A:1082:LEU:CD1	2.47	0.87
4:B:467:GLN:HE21	4:B:470:THR:H	1.20	0.87
4:B:631:TRP:CD1	4:B:633:PRO:CG	2.55	0.87
4:B:898:LEU:HD23	4:B:900:LEU:HG	1.56	0.87
9:Y:170:ILE:HG22	9:Y:172:LEU:H	1.35	0.87
3:A:38:PHE:O	3:A:39:ARG:C	2.12	0.87
3:A:1016:ARG:HA	6:E:353:ARG:HA	1.54	0.87
4:B:93:LYS:CE	4:B:372:HIS:CE1	2.57	0.87
5:C:205:SER:N	5:C:208:GLU:OE2	2.06	0.87
5:D:194:LEU:C	5:D:195:LEU:HD12	1.98	0.87
9:Y:81:LEU:HD23	9:Y:82:THR:CG2	2.02	0.87
2:2:61:DT:C7	9:Y:188:VAL:HG23	2.04	0.87
3:A:154:ASP:CG	3:A:158:ARG:H	1.81	0.87
3:A:600:TYR:CD2	3:A:607:ARG:HB2	2.10	0.87
4:B:614:LYS:NZ	4:B:622:GLU:H	1.72	0.87
5:C:179:SER:OG	5:C:180:VAL:N	1.83	0.87
5:D:118:VAL:CG2	5:D:142:ILE:HG13	2.04	0.87
8:G:340:ARG:HB2	8:G:354:ILE:HD13	1.56	0.87
4:B:91:PHE:HE1	4:B:156:ASP:CG	1.83	0.87
4:B:440:LYS:HZ2	4:B:1000:GLU:H	1.17	0.87
4:B:816:ILE:CG1	4:B:833:VAL:HG23	2.04	0.87
5:C:101:VAL:HB	5:C:136:LEU:HD12	1.56	0.87
6:E:254:PRO:HG2	6:E:255:ASP:H	1.38	0.87
6:E:533:LYS:HB2	6:E:556:VAL:CG1	2.04	0.87
9:Y:67:ALA:HB1	9:Y:75:PHE:CZ	2.09	0.87
9:Y:148:ARG:HD2	9:Y:183:ILE:HD13	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:174:LYS:HE3	3:A:189:LYS:N	1.90	0.87
4:B:880:GLU:HG2	4:B:899:VAL:HG13	1.57	0.87
4:B:1017:LEU:HD12	4:B:1017:LEU:C	1.99	0.87
5:C:151:VAL:HG13	5:C:156:GLU:HG3	1.55	0.87
9:X:47:LEU:CD1	9:X:52:VAL:CG2	2.53	0.87
9:X:176:HIS:O	9:X:189:THR:CB	2.22	0.87
3:A:161:TYR:CE2	3:A:308:GLU:HA	2.09	0.87
3:A:271:ARG:N	3:A:290:ARG:HH12	1.73	0.87
4:B:311:LEU:CD1	7:F:27:ASN:HD21	1.81	0.87
4:B:1140:HIS:O	4:B:1143:VAL:N	2.06	0.87
6:E:53:GLU:O	6:E:54:MET:CG	2.23	0.87
6:E:560:PHE:O	6:E:604:GLN:HG3	1.74	0.87
9:X:69:LEU:HG	9:X:70:ARG:H	1.40	0.87
9:X:203:ILE:HG22	9:X:212:VAL:HA	1.52	0.87
3:A:176:GLU:OE2	3:A:184:TRP:CD1	2.28	0.87
3:A:735:GLU:C	3:A:772:LYS:CG	2.41	0.87
4:B:626:GLY:O	4:B:746:VAL:N	2.07	0.87
6:E:206:ALA:O	6:E:210:ARG:CD	2.21	0.87
4:B:170:THR:OG1	4:B:171:GLU:N	1.99	0.87
4:B:330:LEU:O	4:B:332:MET:N	2.06	0.87
5:D:206:PRO:HB2	5:D:207:GLN:OE1	1.74	0.87
6:E:585:THR:HG23	6:E:593:VAL:O	1.74	0.87
9:X:176:HIS:CB	9:X:190:VAL:HG23	2.03	0.87
9:Y:206:HIS:H	9:Y:209:LYS:H	1.21	0.87
2:2:33:DA:H2"	2:2:34:DA:C8	2.09	0.87
3:A:188:ASP:OD1	3:A:191:ARG:CB	2.20	0.87
3:A:298:LEU:HA	3:A:301:VAL:HG22	1.54	0.87
3:A:631:LYS:NZ	3:A:632:GLY:O	2.07	0.87
3:A:1036:GLU:OE2	3:A:1037:LEU:N	2.07	0.87
4:B:264:ILE:HG23	4:B:264:ILE:O	1.75	0.87
4:B:669:SER:O	4:B:689:GLY:N	2.06	0.87
5:D:13:THR:HG21	5:D:206:PRO:HD2	1.54	0.87
6:E:47:TYR:HB2	8:G:231:LEU:HD23	1.53	0.87
7:F:67:ASP:OD1	7:F:68:GLU:N	2.06	0.87
4:B:100:GLY:HA2	4:B:424:LEU:CD1	2.05	0.86
4:B:103:GLU:HB2	4:B:424:LEU:HD12	1.56	0.86
4:B:538:GLU:HG3	4:B:540:ILE:CG1	2.03	0.86
5:D:86:ILE:O	5:D:121:ILE:HG12	1.74	0.86
8:G:110:LEU:HB2	8:G:151:GLY:HA3	1.57	0.86
8:G:335:ASP:OD1	8:G:339:LEU:HD23	1.74	0.86
3:A:65:LEU:HA	3:A:102:LEU:HD22	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:467:GLU:HG3	3:A:472:ARG:HH12	1.38	0.86
3:A:535:VAL:HG21	3:A:540:SER:HB3	1.55	0.86
4:B:252:LYS:HZ2	4:B:255:GLU:HA	1.39	0.86
5:D:63:HIS:HA	5:D:164:LEU:HD11	1.56	0.86
9:Y:202:MET:O	9:Y:213:HIS:N	2.07	0.86
3:A:96:TYR:CZ	3:A:115:PHE:HB3	2.10	0.86
3:A:351:MET:HA	3:A:359:LEU:HD11	1.56	0.86
3:A:1028:PHE:CD1	6:E:438:ARG:CB	2.45	0.86
4:B:452:GLU:O	4:B:483:LEU:HB2	1.75	0.86
9:X:179:ILE:HG22	9:X:189:THR:HG22	1.45	0.86
3:A:174:LYS:HE3	3:A:189:LYS:H	1.40	0.86
4:B:69:ALA:O	4:B:72:GLU:HB3	1.75	0.86
4:B:220:ILE:O	4:B:281:VAL:HA	1.74	0.86
5:C:9:VAL:HG11	5:C:22:LYS:HB2	1.54	0.86
5:C:206:PRO:HB2	5:C:207:GLN:OE1	1.74	0.86
5:C:217:LEU:C	5:C:219:ASP:H	1.80	0.86
6:E:386:PRO:O	6:E:389:ILE:N	2.09	0.86
6:E:544:ALA:HB1	6:E:549:GLN:HB2	1.54	0.86
1:1:102:DA:C8	8:G:208:THR:CG2	2.58	0.86
3:A:180:ASN:ND2	3:A:182:LEU:HB3	1.89	0.86
3:A:334:ASN:O	3:A:337:ARG:HG2	1.76	0.86
3:A:598:VAL:HG23	3:A:608:VAL:CG1	2.06	0.86
3:A:887:LEU:HD12	4:B:131:ARG:NH2	1.67	0.86
4:B:250:HIS:HE2	4:B:255:GLU:C	1.82	0.86
5:C:62:SER:OG	5:C:63:HIS:N	2.02	0.86
5:D:165:GLN:OE1	5:D:165:GLN:N	2.09	0.86
6:E:398:VAL:HG11	6:E:404:ALA:HB2	1.57	0.86
9:X:47:LEU:CD1	9:X:100:LEU:CD2	2.53	0.86
3:A:50:LEU:O	3:A:53:PHE:N	2.08	0.86
3:A:598:VAL:HA	3:A:615:PRO:HB3	1.56	0.86
3:A:792:PHE:CE1	8:G:385:LEU:HD11	2.10	0.86
4:B:682:ARG:HG3	4:B:683:GLU:HG2	1.57	0.86
9:X:42:GLU:CA	9:X:78:LEU:CD1	2.53	0.86
3:A:616:THR:O	3:A:619:GLY:C	2.19	0.86
4:B:80:TYR:HB2	4:B:90:ARG:HG2	1.57	0.86
4:B:520:GLY:O	4:B:764:ARG:NH2	2.09	0.86
5:D:10:GLU:HG3	5:D:20:TYR:CE2	2.11	0.86
9:Y:30:ARG:HD2	9:Y:96:THR:HA	1.55	0.86
1:1:86:DG:C2	2:2:40:DC:O2	2.26	0.86
1:1:87:DA:C6	2:2:39:DT:C4	2.64	0.86
3:A:598:VAL:HG12	3:A:661:GLU:H	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:599:VAL:HG11	3:A:613:GLN:HB3	1.56	0.86
4:B:208:ILE:O	4:B:210:ARG:HD2	1.75	0.86
5:C:83:LYS:NZ	5:C:167:ASP:O	2.09	0.86
3:A:81:VAL:O	3:A:84:ALA:N	2.08	0.86
3:A:164:SER:C	3:A:165:LEU:HD22	2.00	0.86
3:A:402:LEU:C	3:A:402:LEU:HD12	1.99	0.86
4:B:125:MET:HG2	6:E:515:LEU:HD22	1.50	0.86
4:B:1091:HIS:CE1	4:B:1092:GLU:CG	2.58	0.86
8:G:336:VAL:HA	8:G:339:LEU:HB2	1.57	0.86
2:2:36:DT:H1'	2:2:37:DT:H5'	1.57	0.86
3:A:597:ASP:N	3:A:615:PRO:HA	1.91	0.86
4:B:565:THR:HA	4:B:571:VAL:HA	1.54	0.86
4:B:1159:ASP:C	4:B:1180:MET:HE1	2.01	0.86
1:1:58:DA:N1	2:2:68:DT:O4	2.08	0.85
3:A:174:LYS:HE3	3:A:189:LYS:CA	2.06	0.85
3:A:1023:TRP:HE3	6:E:436:LEU:HD13	1.40	0.85
4:B:463:LYS:HE3	4:B:466:ARG:HB3	1.56	0.85
5:D:83:LYS:NZ	5:D:167:ASP:O	2.09	0.85
6:E:572:GLU:OE1	6:E:572:GLU:N	2.08	0.85
9:Y:29:GLU:HG3	9:Y:32:LYS:HB2	1.57	0.85
2:2:34:DA:H2'	2:2:35:DA:C8	2.10	0.85
3:A:63:LEU:HD12	3:A:103:ASN:HB3	1.58	0.85
3:A:70:HIS:ND1	3:A:70:HIS:O	2.09	0.85
3:A:694:GLU:HB3	4:B:41:PHE:HB3	1.57	0.85
9:Y:45:TYR:C	9:Y:100:LEU:HD11	2.01	0.85
3:A:327:SER:O	3:A:331:LEU:HD23	1.74	0.85
3:A:395:GLU:N	3:A:395:GLU:OE1	2.10	0.85
3:A:756:ILE:HG22	3:A:757:ILE:H	1.39	0.85
3:A:787:LEU:O	3:A:790:ALA:N	2.07	0.85
4:B:106:LYS:HE3	4:B:138:ARG:HD3	1.57	0.85
4:B:514:LYS:HZ3	4:B:873:ARG:CZ	1.85	0.85
4:B:538:GLU:HB3	4:B:837:SER:HB2	1.58	0.85
5:C:165:GLN:OE1	5:C:165:GLN:N	2.09	0.85
5:D:200:THR:OG1	5:D:201:ASN:N	2.02	0.85
6:E:530:GLY:O	6:E:556:VAL:HG21	1.75	0.85
6:E:583:SER:HA	6:E:585:THR:H	1.39	0.85
6:E:595:GLU:HG2	6:E:596:ASP:N	1.90	0.85
3:A:607:ARG:HD3	3:A:636:ARG:HH22	1.40	0.85
4:B:413:VAL:H	4:B:424:LEU:HD22	1.41	0.85
4:B:602:GLY:HA2	4:B:634:GLU:HG2	1.58	0.85
4:B:1079:ALA:C	4:B:1081:GLN:H	1.82	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:171:MET:SD	5:D:172:PRO:C	2.59	0.85
6:E:216:ALA:CA	6:E:219:GLN:CG	2.52	0.85
6:E:308:GLU:N	6:E:308:GLU:OE1	2.10	0.85
8:G:110:LEU:CD1	8:G:152:ARG:HB3	2.06	0.85
3:A:288:THR:O	3:A:290:ARG:N	2.10	0.85
4:B:286:LEU:HD21	4:B:1142:GLU:HG3	1.56	0.85
4:B:378:PHE:CE1	4:B:413:VAL:HG11	2.10	0.85
4:B:510:LEU:HD21	4:B:878:SER:HB3	1.59	0.85
4:B:513:THR:H	4:B:874:THR:H	1.22	0.85
4:B:542:ALA:HA	4:B:759:SER:CA	2.04	0.85
4:B:773:ARG:CD	4:B:792:ARG:HB3	2.05	0.85
4:B:1237:GLU:O	4:B:1240:ILE:N	2.09	0.85
5:C:51:THR:HG22	5:C:144:ARG:HA	1.58	0.85
6:E:81:HIS:NE2	6:E:84:ILE:HG22	1.91	0.85
9:Y:43:ARG:NH1	9:Y:44:VAL:CG2	2.39	0.85
1:1:73:DA:H1'	1:1:74:DT:P	2.17	0.85
2:2:29:DA:H1'	2:2:30:DG:O4'	1.77	0.85
3:A:291:VAL:HG12	3:A:292:LEU:H	1.41	0.85
3:A:727:ARG:N	3:A:734:GLU:OE2	2.08	0.85
4:B:359:LEU:HB3	4:B:360:PRO:CD	2.06	0.85
8:G:131:SER:H	8:G:134:ALA:H	1.18	0.85
9:Y:197:LEU:HD12	9:Y:198:ARG:HG3	1.56	0.85
2:2:48:DT:H4'	2:2:49:DT:OP1	1.76	0.85
2:2:61:DT:H73	9:Y:188:VAL:CG2	2.06	0.85
4:B:165:GLU:H	4:B:165:GLU:CD	1.82	0.85
4:B:1239:VAL:HG13	4:B:1240:ILE:N	1.90	0.85
6:E:518:TYR:O	6:E:521:THR:N	2.10	0.85
3:A:773:VAL:HA	3:A:801:ASP:HA	1.58	0.85
3:A:935:LYS:O	3:A:938:GLU:HG3	1.77	0.85
4:B:305:HIS:HA	6:E:498:LEU:HD21	1.58	0.85
4:B:818:LEU:HG	4:B:819:ILE:N	1.92	0.85
5:D:76:LEU:HD12	5:D:76:LEU:N	1.91	0.85
9:Y:69:LEU:HG	9:Y:70:ARG:H	1.40	0.85
3:A:191:ARG:HH12	3:A:243:ARG:H	1.25	0.85
4:B:96:ASP:CA	4:B:423:LEU:H	1.90	0.85
4:B:169:VAL:HG23	4:B:170:THR:H	1.42	0.85
4:B:885:ARG:HB2	4:B:898:LEU:HD13	1.59	0.85
4:B:1082:PRO:HB3	4:B:1088:SER:HB3	1.59	0.85
5:C:211:SER:HA	5:D:225:LYS:CA	2.04	0.85
6:E:28:ARG:CZ	6:E:102:ARG:CD	2.43	0.85
6:E:71:CYS:HA	6:E:91:VAL:HG11	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:313:VAL:O	8:G:316:ASN:N	2.09	0.85
9:Y:69:LEU:HD12	9:Y:70:ARG:HD3	1.58	0.85
3:A:522:GLU:OE1	3:A:522:GLU:N	2.10	0.85
4:B:903:SER:HA	4:B:906:ALA:HA	1.56	0.85
4:B:1028:ILE:HD13	4:B:1088:SER:HB3	1.59	0.85
5:C:88:LYS:H	5:C:121:ILE:HD11	1.40	0.85
4:B:549:ALA:HB1	4:B:564:ILE:HG23	1.58	0.84
4:B:638:GLU:HA	4:B:683:GLU:HA	1.59	0.84
9:X:33:THR:CG2	9:X:91:HIS:CE1	2.59	0.84
9:Y:57:VAL:HB	9:Y:91:HIS:H	1.40	0.84
3:A:58:ASP:OD1	3:A:62:LYS:N	2.10	0.84
3:A:391:ASN:O	3:A:393:LEU:N	2.09	0.84
3:A:983:VAL:O	3:A:985:LEU:HG	1.77	0.84
3:A:1015:GLN:NE2	6:E:359:ARG:HD2	1.92	0.84
4:B:612:GLN:HB2	4:B:614:LYS:HB2	1.56	0.84
5:C:171:MET:SD	5:C:172:PRO:C	2.59	0.84
6:E:140:VAL:HG23	6:E:141:TYR:HD2	1.40	0.84
6:E:282:ARG:NH1	6:E:305:MET:HB3	1.90	0.84
8:G:287:GLU:HB2	8:G:297:ARG:HG2	1.58	0.84
3:A:624:ASN:HD22	3:A:627:LEU:HD13	1.40	0.84
3:A:1054:ALA:CB	3:A:1059:LYS:HZ1	1.89	0.84
4:B:356:THR:HG23	4:B:411:TYR:CD2	2.12	0.84
4:B:482:ILE:HG21	4:B:970:ARG:HH11	1.41	0.84
4:B:1149:THR:O	4:B:1149:THR:OG1	1.87	0.84
8:G:338:ARG:HG2	8:G:343:LEU:HB2	1.57	0.84
9:X:179:ILE:HB	9:X:189:THR:HG21	0.85	0.84
3:A:184:TRP:HB3	3:A:193:LEU:HA	1.58	0.84
3:A:545:LEU:O	3:A:547:HIS:N	2.10	0.84
3:A:596:GLY:H	3:A:662:ARG:HH21	1.25	0.84
3:A:635:ILE:O	3:A:637:TYR:N	2.10	0.84
4:B:15:ASN:OD1	4:B:16:LEU:N	2.08	0.84
4:B:360:PRO:HB3	4:B:390:ARG:CD	2.07	0.84
4:B:764:ARG:NH2	4:B:806:GLU:O	2.09	0.84
4:B:978:ALA:HA	4:B:997:LEU:HG	1.59	0.84
6:E:263:ASP:OD1	6:E:264:GLY:N	2.10	0.84
6:E:409:SER:OG	6:E:410:ARG:NH1	2.09	0.84
8:G:378:HIS:ND1	9:X:57:VAL:HG23	1.91	0.84
9:X:42:GLU:CA	9:X:78:LEU:CB	2.55	0.84
9:Y:44:VAL:HG11	9:Y:46:PHE:CE2	2.12	0.84
3:A:388:ASP:N	3:A:388:ASP:OD1	2.00	0.84
3:A:550:ALA:O	3:A:553:ALA:N	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:250:HIS:CE1	4:B:252:LYS:HA	2.13	0.84
4:B:542:ALA:CA	4:B:759:SER:HA	2.04	0.84
6:E:185:GLU:HG3	6:E:195:ARG:NH1	1.92	0.84
9:X:145:MET:CB	9:X:183:ILE:HG21	2.07	0.84
3:A:46:LEU:H	3:A:46:LEU:HD23	1.41	0.84
3:A:360:THR:O	3:A:364:LEU:HD22	1.78	0.84
4:B:797:LEU:HB3	4:B:832:LEU:HD21	1.58	0.84
4:B:1151:LYS:CE	4:B:1169:GLU:HG2	2.08	0.84
6:E:619:ILE:O	6:E:622:ALA:N	2.09	0.84
8:G:121:SER:OG	8:G:122:GLU:N	2.06	0.84
8:G:378:HIS:NE2	9:X:57:VAL:CG2	2.14	0.84
9:X:64:ILE:HD12	9:X:66:VAL:HB	1.58	0.84
9:X:69:LEU:HD12	9:X:70:ARG:HD3	1.58	0.84
1:1:100:DA:H8	1:1:100:DA:O5'	1.59	0.84
3:A:610:VAL:HA	3:A:632:GLY:C	2.02	0.84
3:A:968:PHE:HD1	3:A:970:ARG:H	1.26	0.84
4:B:4:ARG:H	6:E:616:ASN:HD21	1.23	0.84
4:B:455:PHE:HA	4:B:481:TRP:CE3	2.13	0.84
4:B:794:GLN:HG2	4:B:795:LEU:N	1.89	0.84
5:D:75:VAL:HG13	5:D:76:LEU:HD12	1.59	0.84
5:D:217:LEU:C	5:D:219:ASP:H	1.80	0.84
8:G:249:LEU:HG	8:G:262:ILE:CD1	2.08	0.84
9:X:43:ARG:HH12	9:X:107:GLN:HB3	1.41	0.84
9:X:56:ARG:HE	9:X:66:VAL:HG11	1.40	0.84
9:X:169:THR:HA	9:X:212:VAL:HB	1.60	0.84
3:A:81:VAL:HG23	3:A:82:GLU:H	1.42	0.84
4:B:250:HIS:ND1	4:B:250:HIS:O	2.11	0.84
4:B:631:TRP:HE1	4:B:633:PRO:HA	1.42	0.84
7:F:31:ILE:O	7:F:34:GLN:N	2.11	0.84
1:1:84:DA:C5	2:2:42:DT:O4	2.30	0.84
3:A:405:LEU:HD11	3:A:443:LEU:HD23	1.60	0.84
3:A:552:ARG:NH1	3:A:892:ARG:HG2	1.91	0.84
3:A:736:ILE:HD13	3:A:772:LYS:HB2	1.60	0.84
4:B:93:LYS:CD	4:B:370:THR:HB	2.07	0.84
4:B:385:MET:HG3	4:B:406:GLN:H	1.39	0.84
4:B:606:PHE:HE1	4:B:778:ASP:N	1.73	0.84
4:B:609:VAL:HG22	4:B:626:GLY:HA3	1.60	0.84
6:E:547:GLN:HB3	6:E:549:GLN:HE21	1.41	0.84
1:1:101:DT:O2	1:1:101:DT:H2'	1.75	0.84
1:1:107:DG:C5	1:1:108:DA:N6	2.45	0.84
2:2:49:DT:H1'	2:2:50:DG:C8	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:298:LEU:O	3:A:301:VAL:N	2.10	0.84
3:A:756:ILE:HG22	3:A:757:ILE:N	1.92	0.84
3:A:1015:GLN:HE22	6:E:359:ARG:CD	1.89	0.84
4:B:100:GLY:HA2	4:B:424:LEU:CG	2.07	0.84
4:B:100:GLY:HA2	4:B:424:LEU:HD11	1.56	0.84
4:B:538:GLU:CG	4:B:540:ILE:HG12	2.04	0.84
4:B:617:ALA:O	4:B:777:LYS:NZ	2.11	0.84
4:B:675:THR:OG1	4:B:683:GLU:O	1.95	0.84
5:C:130:ILE:HB	5:C:136:LEU:HD11	1.58	0.84
5:D:186:ASP:C	5:D:188:SER:N	2.32	0.84
6:E:480:SER:OG	6:E:483:SER:N	2.10	0.84
9:X:47:LEU:HD11	9:X:52:VAL:HG23	1.58	0.84
9:Y:56:ARG:HA	9:Y:90:TYR:HB3	1.60	0.84
3:A:638:THR:OG1	3:A:639:VAL:N	2.04	0.83
3:A:792:PHE:HE1	8:G:382:ASN:HB2	1.43	0.83
4:B:201:VAL:HG23	4:B:317:ILE:HG22	1.58	0.83
4:B:473:THR:HG21	4:B:977:GLY:CA	2.07	0.83
5:C:76:LEU:HD12	5:C:76:LEU:N	1.91	0.83
5:C:79:ILE:C	5:C:82:MET:H	1.86	0.83
6:E:202:LEU:HD11	6:E:235:ILE:HG23	1.60	0.83
6:E:402:LYS:HD2	6:E:405:LYS:HD3	1.60	0.83
8:G:110:LEU:HD13	8:G:152:ARG:CA	2.08	0.83
1:1:58:DA:H1'	1:1:59:DT:C5	2.13	0.83
3:A:413:GLU:OE1	3:A:413:GLU:N	2.11	0.83
4:B:190:THR:HG23	4:B:191:ALA:N	1.93	0.83
4:B:303:LEU:HD22	6:E:503:GLY:N	1.93	0.83
4:B:621:TYR:CD2	4:B:774:LEU:N	2.46	0.83
4:B:1132:GLN:OE1	4:B:1132:GLN:N	2.11	0.83
1:1:84:DA:C2	2:2:42:DT:C4	2.66	0.83
1:1:114:DC:O2	2:2:12:DG:N2	2.12	0.83
3:A:735:GLU:O	3:A:772:LYS:HG3	1.77	0.83
4:B:473:THR:CG2	4:B:977:GLY:C	2.44	0.83
4:B:653:TYR:CD1	4:B:671:VAL:CA	2.59	0.83
4:B:694:VAL:HG12	4:B:735:ALA:N	1.92	0.83
4:B:847:ASP:HB3	4:B:850:GLN:HB3	1.58	0.83
4:B:1089:ASN:HB3	4:B:1091:HIS:NE2	1.93	0.83
5:C:9:VAL:HG11	5:C:22:LYS:CD	2.08	0.83
1:1:78:DA:H2"	1:1:79:DA:H8	1.44	0.83
3:A:395:GLU:O	3:A:396:LEU:C	2.20	0.83
4:B:597:ARG:HG3	4:B:788:VAL:CB	2.07	0.83
4:B:634:GLU:OE1	4:B:781:ARG:NH2	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1231:TRP:NE1	6:E:11:TYR:HD2	1.73	0.83
5:D:205:SER:HG	5:D:206:PRO:N	1.71	0.83
6:E:156:LEU:HD11	6:E:170:ILE:HD12	1.59	0.83
9:Y:78:LEU:CD1	9:Y:88:ARG:HH11	1.91	0.83
3:A:261:PHE:HB2	3:A:262:PHE:CE1	2.13	0.83
3:A:489:ARG:HB3	3:A:524:VAL:HA	1.60	0.83
3:A:828:LEU:CD1	3:A:829:PRO:O	2.27	0.83
4:B:143:MET:HG3	4:B:160:LYS:C	2.02	0.83
4:B:597:ARG:CG	4:B:788:VAL:CG1	2.34	0.83
4:B:609:VAL:HA	4:B:625:GLN:O	1.78	0.83
5:C:220:LEU:N	5:C:220:LEU:HD12	1.91	0.83
6:E:512:ASP:OD1	6:E:512:ASP:N	1.97	0.83
6:E:587:LEU:HD12	6:E:587:LEU:N	1.92	0.83
9:X:213:HIS:C	9:X:214:LYS:HG3	2.03	0.83
9:Y:78:LEU:HD21	9:Y:88:ARG:HG2	0.83	0.83
3:A:106:THR:OG1	3:A:108:ASP:OD2	1.96	0.83
3:A:162:SER:HA	3:A:176:GLU:HA	1.60	0.83
4:B:366:ARG:NH1	4:B:369:ARG:HB2	1.93	0.83
4:B:385:MET:N	4:B:405:THR:HA	1.93	0.83
4:B:1245:ILE:HG23	4:B:1246:PRO:HD2	1.60	0.83
6:E:78:ARG:HD3	8:G:347:ARG:HE	1.41	0.83
6:E:125:ILE:O	6:E:129:LEU:HD13	1.78	0.83
6:E:131:MET:HB2	6:E:136:VAL:HG21	1.61	0.83
6:E:619:ILE:H	6:E:619:ILE:HD12	1.41	0.83
9:X:30:ARG:CG	9:X:97:PRO:CD	2.53	0.83
9:Y:170:ILE:HG22	9:Y:171:ASP:H	1.43	0.83
1:1:87:DA:C6	2:2:39:DT:O4	2.32	0.83
3:A:174:LYS:HE3	3:A:189:LYS:HA	1.60	0.83
3:A:364:LEU:H	3:A:364:LEU:HD23	1.41	0.83
3:A:1076:GLU:OE1	3:A:1076:GLU:N	2.12	0.83
4:B:910:ILE:HD11	4:B:930:PRO:HD2	1.59	0.83
4:B:1209:SER:OG	4:B:1210:ALA:N	2.01	0.83
4:B:1215:GLU:OE2	4:B:1218:ARG:CD	2.26	0.83
5:C:55:ALA:HA	5:C:165:GLN:HA	1.60	0.83
6:E:131:MET:HB2	6:E:136:VAL:CG2	2.08	0.83
9:X:179:ILE:HG21	9:X:189:THR:HG22	0.84	0.83
3:A:715:THR:O	3:A:715:THR:OG1	1.90	0.83
3:A:748:LEU:CA	3:A:751:LEU:HD12	2.08	0.83
4:B:575:ARG:HG3	4:B:794:GLN:HG3	1.61	0.83
4:B:1115:GLN:O	4:B:1118:GLN:N	2.12	0.83
9:X:98:VAL:CG1	9:X:100:LEU:CD1	2.57	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:107:GLN:HA	9:X:111:ALA:HB3	1.57	0.83
9:Y:109:GLU:O	9:Y:113:LYS:HG2	1.79	0.83
3:A:180:ASN:OD1	3:A:181:ASP:N	2.11	0.83
3:A:403:SER:OG	3:A:404:ALA:N	2.07	0.83
4:B:763:GLY:O	4:B:765:SER:OG	1.97	0.83
4:B:1173:VAL:CG2	4:B:1190:TYR:CE1	2.61	0.83
9:Y:47:LEU:HD23	9:Y:69:LEU:HB3	1.59	0.83
9:Y:78:LEU:CD2	9:Y:88:ARG:CD	2.57	0.83
9:Y:169:THR:HA	9:Y:212:VAL:HB	1.60	0.83
3:A:95:MET:O	3:A:115:PHE:HA	1.79	0.83
3:A:330:GLU:HG2	3:A:331:LEU:N	1.94	0.83
3:A:351:MET:SD	3:A:352:THR:OG1	2.35	0.83
4:B:311:LEU:HD12	7:F:27:ASN:HD21	1.03	0.83
4:B:356:THR:CG2	4:B:411:TYR:CE2	2.56	0.83
4:B:558:GLY:HA2	4:B:559:ARG:HH11	1.43	0.83
4:B:759:SER:HB3	4:B:766:ILE:HB	1.60	0.83
8:G:131:SER:O	8:G:134:ALA:N	2.10	0.83
1:1:75:DA:C6	2:2:52:DA:C2	2.68	0.82
1:1:100:DA:N3	8:G:204:TYR:CZ	2.47	0.82
3:A:579:GLU:O	3:A:582:GLY:N	2.12	0.82
3:A:596:GLY:C	3:A:615:PRO:HA	2.04	0.82
3:A:931:ILE:O	3:A:934:GLY:N	2.12	0.82
3:A:1068:GLU:O	3:A:1071:LYS:N	2.12	0.82
4:B:93:LYS:HZ1	4:B:375:ASP:HA	1.44	0.82
5:C:75:VAL:HG13	5:C:76:LEU:HD12	1.59	0.82
5:C:101:VAL:HG11	5:C:107:ILE:CD1	2.09	0.82
5:D:79:ILE:C	5:D:82:MET:H	1.86	0.82
6:E:150:PRO:HB2	6:E:183:GLY:HA3	1.61	0.82
6:E:576:VAL:HG12	6:E:586:VAL:HG23	1.59	0.82
8:G:163:LEU:HD12	8:G:164:ARG:CA	2.09	0.82
8:G:192:ILE:O	8:G:195:ALA:N	2.12	0.82
9:X:48:LEU:HB3	9:X:99:GLU:HG3	1.59	0.82
9:Y:55:SER:CB	9:Y:65:THR:HG22	2.09	0.82
9:Y:56:ARG:HB2	9:Y:90:TYR:CD1	2.13	0.82
1:1:87:DA:C6	2:2:39:DT:N3	2.47	0.82
3:A:185:VAL:CG2	3:A:197:VAL:HA	2.08	0.82
3:A:1087:HIS:NE2	6:E:11:TYR:CZ	2.47	0.82
4:B:93:LYS:NZ	4:B:415:GLY:CA	2.41	0.82
4:B:678:ASN:O	4:B:680:ILE:HG12	1.79	0.82
4:B:1115:GLN:HG3	4:B:1116:LYS:N	1.93	0.82
6:E:42:PRO:HB2	6:E:277:ARG:HB2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:329:ARG:NH1	8:G:289:PRO:HG3	1.93	0.82
9:X:98:VAL:CG1	9:X:100:LEU:HG	2.09	0.82
3:A:609:ARG:NH1	3:A:637:TYR:CD2	2.47	0.82
4:B:474:ALA:HB3	4:B:477:GLY:HA2	1.60	0.82
4:B:646:LEU:HD23	4:B:662:LYS:CA	2.09	0.82
5:C:101:VAL:CB	5:C:136:LEU:HD12	2.10	0.82
5:C:214:ALA:HB2	5:D:224:LEU:HD22	1.60	0.82
8:G:135:GLU:HG3	8:G:137:VAL:HG22	1.60	0.82
8:G:171:LYS:CG	8:G:174:MET:SD	2.67	0.82
9:X:42:GLU:CA	9:X:78:LEU:HB2	2.09	0.82
9:Y:161:GLY:HA2	9:Y:170:ILE:HA	1.60	0.82
1:1:88:DA:H8	1:1:88:DA:H5”	1.42	0.82
3:A:46:LEU:O	3:A:50:LEU:N	2.12	0.82
3:A:773:VAL:HB	3:A:799:VAL:CG1	2.10	0.82
4:B:22:THR:OG1	4:B:23:HIS:N	2.10	0.82
4:B:86:THR:O	4:B:89:GLU:HB2	1.79	0.82
4:B:510:LEU:O	4:B:875:GLN:NE2	2.13	0.82
6:E:104:GLY:O	6:E:251:VAL:HB	1.78	0.82
1:1:88:DA:N1	2:2:38:DT:C2	2.47	0.82
1:1:106:DG:H4’	8:G:171:LYS:HD2	0.83	0.82
2:2:35:DA:H2’	2:2:36:DT:C6	2.13	0.82
4:B:267:ASP:CG	4:B:268:LEU:H	1.87	0.82
4:B:440:LYS:HA	4:B:1000:GLU:HA	1.61	0.82
5:C:101:VAL:CG1	5:C:136:LEU:HD12	2.08	0.82
6:E:188:ILE:HD11	6:E:300:ARG:CZ	2.09	0.82
4:B:93:LYS:CE	4:B:372:HIS:NE2	2.42	0.82
4:B:713:GLU:HA	4:B:718:VAL:HA	1.61	0.82
4:B:763:GLY:CA	4:B:801:GLN:HG3	2.10	0.82
4:B:795:LEU:N	4:B:795:LEU:HD12	1.94	0.82
4:B:1113:ALA:O	4:B:1116:LYS:N	2.11	0.82
8:G:338:ARG:HG2	8:G:343:LEU:CD2	2.08	0.82
9:Y:203:ILE:CA	9:Y:211:THR:O	2.26	0.82
1:1:86:DG:H2”	1:1:87:DA:OP2	1.78	0.82
3:A:597:ASP:OD2	3:A:662:ARG:HD2	1.79	0.82
3:A:1000:LEU:O	3:A:1003:GLN:NE2	2.12	0.82
4:B:922:ILE:HG12	4:B:936:GLU:O	1.80	0.82
5:C:92:SER:HB2	5:C:144:ARG:HE	1.43	0.82
6:E:514:VAL:HG23	6:E:515:LEU:N	1.93	0.82
9:X:131:LEU:CG	9:X:135:MET:HE3	2.08	0.82
1:1:100:DA:N3	8:G:204:TYR:OH	2.11	0.82
1:1:108:DA:C4	1:1:109:DG:N1	2.48	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:467:GLU:HG3	3:A:472:ARG:NH1	1.94	0.82
4:B:443:LYS:O	4:B:996:LEU:HA	1.80	0.82
4:B:807:HIS:ND1	4:B:807:HIS:O	2.12	0.82
5:D:55:ALA:HA	5:D:165:GLN:HA	1.60	0.82
6:E:230:VAL:HG23	6:E:231:ILE:H	1.45	0.82
9:X:28:PHE:H	9:X:98:VAL:HB	1.44	0.82
9:X:144:ASP:C	9:X:148:ARG:HE	1.87	0.82
9:Y:49:LYS:N	9:Y:99:GLU:O	2.11	0.82
3:A:520:THR:OG1	3:A:523:GLN:NE2	2.11	0.82
3:A:590:ILE:O	3:A:669:LEU:N	2.11	0.82
4:B:89:GLU:O	4:B:370:THR:HA	1.80	0.82
4:B:332:MET:SD	4:B:1007:ILE:HG12	2.19	0.82
4:B:464:THR:HB	4:B:469:ASN:HA	1.59	0.82
4:B:1000:GLU:OE1	4:B:1000:GLU:N	2.12	0.82
4:B:1151:LYS:HB2	4:B:1195:LEU:HD21	1.60	0.82
5:C:9:VAL:HG11	5:C:22:LYS:CB	2.07	0.82
5:C:99:LEU:O	5:C:138:MET:N	2.13	0.82
5:C:205:SER:HB3	5:C:208:GLU:OE1	1.80	0.82
9:X:131:LEU:HD12	9:X:135:MET:HE3	1.45	0.82
3:A:270:GLY:C	3:A:290:ARG:HH22	1.88	0.82
3:A:887:LEU:CD1	3:A:887:LEU:O	2.27	0.82
4:B:352:LYS:CD	4:B:358:LYS:HZ3	1.90	0.82
4:B:359:LEU:HB3	4:B:360:PRO:HD3	1.61	0.82
4:B:483:LEU:HD22	4:B:967:ARG:HD2	1.62	0.82
4:B:521:GLY:HA3	4:B:541:THR:HG22	1.62	0.82
4:B:1244:LEU:HD23	4:B:1244:LEU:H	1.44	0.82
5:D:47:ASN:C	5:D:48:LEU:HG	2.01	0.82
6:E:216:ALA:HB1	6:E:219:GLN:HG3	0.92	0.82
3:A:112:GLN:HE22	3:A:362:ALA:HB2	1.43	0.81
3:A:596:GLY:N	3:A:662:ARG:NH2	2.27	0.81
3:A:1033:THR:O	3:A:1034:LEU:C	2.23	0.81
4:B:215:GLY:O	4:B:216:THR:CG2	2.28	0.81
4:B:237:THR:OG1	4:B:238:ARG:N	2.05	0.81
4:B:621:TYR:HD2	4:B:773:ARG:HA	1.44	0.81
4:B:646:LEU:HG	4:B:661:VAL:HA	1.62	0.81
4:B:761:GLN:OE1	4:B:766:ILE:N	2.10	0.81
4:B:925:GLY:N	4:B:934:ALA:O	2.13	0.81
4:B:1118:GLN:O	4:B:1121:LEU:N	2.12	0.81
4:B:1159:ASP:C	4:B:1180:MET:CE	2.53	0.81
4:B:1159:ASP:CA	4:B:1180:MET:SD	2.68	0.81
5:D:13:THR:HG22	5:D:19:HIS:CB	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:101:VAL:H	5:D:136:LEU:HB2	1.43	0.81
6:E:381:ILE:O	6:E:384:PHE:N	2.13	0.81
8:G:139:LEU:HD12	8:G:140:PRO:HD2	1.60	0.81
9:X:26:GLU:N	9:X:100:LEU:O	2.12	0.81
9:Y:26:GLU:N	9:Y:100:LEU:O	2.12	0.81
3:A:559:MET:N	3:A:559:MET:SD	2.40	0.81
3:A:609:ARG:NH1	3:A:637:TYR:N	2.27	0.81
3:A:734:GLU:N	3:A:735:GLU:OE2	2.13	0.81
4:B:58:VAL:HA	4:B:141:VAL:HG21	1.61	0.81
4:B:148:ALA:HA	4:B:154:ILE:HA	1.62	0.81
4:B:480:ILE:HD12	4:B:974:VAL:HG21	1.60	0.81
4:B:552:THR:OG1	4:B:563:LEU:CD1	2.26	0.81
4:B:629:LEU:HB3	4:B:744:PHE:HB2	1.60	0.81
5:D:99:LEU:O	5:D:138:MET:N	2.13	0.81
6:E:480:SER:HG	6:E:483:SER:H	1.27	0.81
8:G:219:THR:OG1	8:G:220:ARG:N	2.08	0.81
9:X:161:GLY:HA2	9:X:170:ILE:HA	1.60	0.81
9:Y:78:LEU:HD13	9:Y:88:ARG:CD	1.93	0.81
1:1:101:DT:H2'	1:1:102:DA:H5'	1.62	0.81
1:1:107:DG:C4	1:1:108:DA:C6	2.69	0.81
1:1:107:DG:C8	1:1:107:DG:H5'	2.15	0.81
3:A:285:VAL:HG12	3:A:289:VAL:HG11	1.62	0.81
3:A:510:VAL:HG11	3:A:519:THR:HG21	1.60	0.81
3:A:769:LEU:N	3:A:804:LEU:O	2.14	0.81
3:A:1052:LEU:C	3:A:1052:LEU:HD23	2.04	0.81
4:B:18:SER:O	4:B:21:PHE:N	2.12	0.81
4:B:185:ASP:O	4:B:188:LEU:N	2.11	0.81
4:B:522:VAL:CG2	4:B:540:ILE:HB	2.10	0.81
6:E:256:LEU:HD12	6:E:256:LEU:N	1.94	0.81
6:E:481:LEU:HG	6:E:482:GLU:N	1.93	0.81
7:F:31:ILE:O	7:F:32:THR:C	2.20	0.81
4:B:114:LYS:HD3	4:B:350:ARG:HE	1.45	0.81
4:B:606:PHE:HA	4:B:630:LEU:HG	1.61	0.81
4:B:611:VAL:CG2	4:B:623:VAL:HA	2.10	0.81
5:D:172:PRO:O	5:D:200:THR:OG1	1.98	0.81
8:G:111:LEU:O	8:G:114:GLU:HG3	1.80	0.81
8:G:258:THR:O	8:G:262:ILE:CG1	2.27	0.81
8:G:378:HIS:ND1	9:X:58:TYR:O	2.14	0.81
9:Y:213:HIS:C	9:Y:214:LYS:HG3	2.03	0.81
3:A:181:ASP:OD2	3:A:218:TYR:HB3	1.80	0.81
3:A:423:HIS:O	3:A:425:SER:N	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:684:GLN:NE2	3:A:713:ILE:HG23	1.95	0.81
3:A:873:TYR:CA	3:A:879:PRO:HA	2.10	0.81
3:A:961:ASP:OD1	3:A:961:ASP:N	1.95	0.81
3:A:1087:HIS:NE2	6:E:11:TYR:OH	2.12	0.81
4:B:603:PHE:HB3	4:B:632:ILE:HD12	1.62	0.81
6:E:254:PRO:HG2	6:E:255:ASP:N	1.95	0.81
6:E:332:LYS:HZ2	8:G:297:ARG:HH22	1.20	0.81
6:E:481:LEU:HD23	6:E:481:LEU:N	1.93	0.81
6:E:502:THR:O	6:E:504:ARG:N	2.12	0.81
8:G:116:VAL:O	8:G:119:ARG:N	2.12	0.81
8:G:326:LEU:O	8:G:328:SER:N	2.13	0.81
3:A:53:PHE:HE2	3:A:340:LEU:HB3	1.44	0.81
3:A:74:LEU:HD21	3:A:95:MET:HG3	0.82	0.81
3:A:968:PHE:CG	4:B:47:ALA:O	2.32	0.81
3:A:1074:MET:HE1	3:A:1084:ILE:HG12	1.61	0.81
4:B:367:THR:O	4:B:371:ARG:N	2.13	0.81
5:C:220:LEU:HD12	5:C:220:LEU:H	1.45	0.81
6:E:594:ARG:CZ	6:E:603:SER:HB2	2.09	0.81
8:G:183:LEU:O	8:G:186:GLU:N	2.14	0.81
3:A:168:ASN:N	3:A:268:ASP:O	2.11	0.81
3:A:355:ASP:OD1	3:A:358:VAL:HG22	1.80	0.81
3:A:606:ILE:H	3:A:609:ARG:HH21	1.28	0.81
4:B:61:SER:N	4:B:108:GLU:OE2	2.13	0.81
4:B:286:LEU:HG	4:B:1142:GLU:OE2	1.81	0.81
4:B:352:LYS:O	4:B:353:MET:HG3	1.81	0.81
4:B:1051:VAL:HG12	4:B:1052:ILE:H	1.45	0.81
4:B:1177:ASN:HD22	4:B:1190:TYR:HE2	0.81	0.81
4:B:1202:LEU:HG	4:B:1203:ASN:N	1.96	0.81
5:D:100:LEU:HD23	5:D:137:GLU:HA	1.63	0.81
6:E:550:ILE:CD1	6:E:610:PRO:HB3	2.09	0.81
2:2:58:DA:H1'	2:2:59:DG:C8	2.16	0.81
4:B:93:LYS:N	4:B:95:ILE:HG22	1.96	0.81
4:B:189:ARG:NH2	4:B:328:THR:O	2.12	0.81
4:B:269:ALA:O	4:B:272:ILE:N	2.13	0.81
6:E:72:HIS:H	6:E:91:VAL:HG21	1.44	0.81
6:E:129:LEU:HD21	6:E:193:LEU:CD1	2.09	0.81
8:G:282:LEU:HD12	8:G:283:PRO:HD2	1.61	0.81
9:X:143:ARG:H	9:X:148:ARG:CD	1.94	0.81
1:1:85:DG:N1	2:2:41:DC:C4	2.46	0.81
3:A:215:HIS:CG	3:A:219:PHE:CE1	2.69	0.81
3:A:391:ASN:N	3:A:391:ASN:OD1	2.03	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:737:THR:OG1	3:A:739:GLU:N	2.14	0.81
3:A:784:GLU:HA	3:A:787:LEU:HD12	1.62	0.81
4:B:283:ARG:HG3	4:B:288:CYS:SG	2.21	0.81
4:B:449:LEU:HD21	4:B:482:ILE:HG21	1.61	0.81
4:B:794:GLN:C	4:B:795:LEU:HD12	2.06	0.81
4:B:1222:GLU:O	4:B:1223:ALA:C	2.24	0.81
5:D:58:ILE:HA	5:D:138:MET:SD	2.21	0.81
9:X:75:PHE:CZ	9:X:100:LEU:HD22	2.16	0.81
9:X:131:LEU:HD11	9:X:135:MET:HE3	1.63	0.81
3:A:223:ILE:HB	3:A:224:GLU:OE1	1.79	0.81
3:A:1072:VAL:O	3:A:1075:ARG:N	2.13	0.81
4:B:93:LYS:HZ2	4:B:415:GLY:CA	1.93	0.81
4:B:100:GLY:HA3	4:B:421:GLY:HA3	1.62	0.81
4:B:207:VAL:CG1	4:B:293:SER:HA	2.07	0.81
4:B:597:ARG:HD2	4:B:788:VAL:CG1	2.04	0.81
4:B:1227:GLY:O	4:B:1229:SER:N	2.14	0.81
5:C:201:ASN:OD1	5:C:202:GLY:N	2.14	0.81
6:E:560:PHE:O	6:E:604:GLN:HG2	1.77	0.81
2:2:61:DT:H72	9:Y:188:VAL:HG23	1.61	0.80
3:A:307:LEU:C	3:A:310:ASP:H	1.87	0.80
3:A:490:VAL:O	3:A:510:VAL:HG23	1.82	0.80
3:A:606:ILE:H	3:A:609:ARG:NH2	1.78	0.80
3:A:792:PHE:CE2	8:G:385:LEU:HD12	2.16	0.80
3:A:1076:GLU:H	3:A:1076:GLU:CD	1.89	0.80
5:D:55:ALA:HB1	5:D:57:ARG:HH22	1.45	0.80
5:D:205:SER:HB3	5:D:208:GLU:OE1	1.80	0.80
7:F:30:ARG:O	7:F:30:ARG:NH1	2.14	0.80
8:G:83:ARG:HA	8:G:86:LEU:HB3	1.62	0.80
8:G:130:ASP:OD1	8:G:134:ALA:N	2.14	0.80
8:G:139:LEU:HD21	8:G:144:PHE:HA	1.60	0.80
8:G:194:ALA:O	8:G:196:GLU:N	2.14	0.80
1:1:116:DC:H42	2:2:9:DC:N4	1.79	0.80
3:A:100:ARG:CG	3:A:101:LEU:H	1.94	0.80
3:A:576:THR:HG23	3:A:578:LEU:H	1.46	0.80
3:A:616:THR:OG1	3:A:633:GLN:OE1	1.97	0.80
4:B:26:THR:O	4:B:28:ARG:N	2.13	0.80
4:B:72:GLU:HG2	4:B:418:VAL:HB	1.63	0.80
4:B:80:TYR:HD1	4:B:86:THR:HA	1.44	0.80
4:B:361:ARG:O	4:B:362:LYS:HB2	1.81	0.80
4:B:467:GLN:HE21	4:B:470:THR:N	1.77	0.80
4:B:916:VAL:HG12	4:B:917:LYS:H	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:13:THR:HG22	5:C:19:HIS:HB3	1.63	0.80
5:C:207:GLN:H	5:C:207:GLN:CD	1.89	0.80
5:D:207:GLN:CD	5:D:207:GLN:H	1.89	0.80
6:E:230:VAL:HG23	6:E:231:ILE:N	1.95	0.80
6:E:302:GLU:O	6:E:305:MET:N	2.14	0.80
6:E:570:ASP:OD2	6:E:589:LYS:N	2.13	0.80
1:1:106:DG:C4'	8:G:171:LYS:CD	2.40	0.80
3:A:686:ILE:HD11	3:A:882:ILE:HD11	1.63	0.80
4:B:283:ARG:CG	4:B:298:CYS:CB	2.43	0.80
4:B:379:VAL:HG13	4:B:380:GLU:H	1.46	0.80
4:B:511:ALA:O	4:B:875:GLN:HA	1.81	0.80
5:C:223:PRO:O	5:C:227:ILE:HD12	1.82	0.80
8:G:146:TYR:CZ	8:G:150:ILE:HD12	2.17	0.80
4:B:442:VAL:HB	4:B:996:LEU:HB3	1.63	0.80
4:B:1077:VAL:HG11	4:B:1081:GLN:HB3	1.61	0.80
5:D:13:THR:HG22	5:D:19:HIS:HB3	1.62	0.80
6:E:220:LYS:HD2	6:E:223:LYS:HE3	1.62	0.80
9:X:180:ALA:HA	9:X:185:SER:HB3	1.63	0.80
2:2:61:DT:H73	9:Y:188:VAL:HG21	1.63	0.80
3:A:330:GLU:O	3:A:333:GLN:N	2.15	0.80
3:A:437:GLU:N	3:A:437:GLU:OE1	2.15	0.80
5:C:221:PHE:HA	5:C:224:LEU:HD22	1.63	0.80
9:Y:124:ARG:O	9:Y:127:SER:OG	1.99	0.80
3:A:391:ASN:HB2	3:A:392:PRO:HD2	1.62	0.80
4:B:80:TYR:CD1	4:B:86:THR:HA	2.17	0.80
4:B:189:ARG:HA	4:B:192:ASP:OD2	1.80	0.80
4:B:441:ALA:N	4:B:999:PHE:O	2.14	0.80
4:B:1125:VAL:O	4:B:1128:VAL:HG12	1.82	0.80
5:C:32:GLN:CD	5:D:220:LEU:CD2	2.54	0.80
6:E:492:LEU:O	6:E:494:SER:N	2.15	0.80
6:E:598:GLN:O	6:E:602:ILE:CD1	2.29	0.80
9:Y:143:ARG:HA	9:Y:148:ARG:HH21	1.47	0.80
3:A:488:LEU:N	3:A:512:TYR:HE1	1.80	0.80
3:A:598:VAL:HA	3:A:608:VAL:HB	1.62	0.80
3:A:791:ILE:H	3:A:791:ILE:HD12	1.44	0.80
4:B:646:LEU:CB	4:B:662:LYS:H	1.95	0.80
4:B:797:LEU:HB2	4:B:832:LEU:HD11	1.63	0.80
5:D:73:GLU:OE2	5:D:129:THR:N	2.15	0.80
2:2:8:DC:H1'	2:2:9:DC:C5	2.16	0.80
3:A:174:LYS:CE	3:A:189:LYS:N	2.45	0.80
3:A:296:ASP:O	3:A:299:ALA:N	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:199:ARG:O	4:B:202:ASP:N	2.15	0.80
4:B:922:ILE:HG22	4:B:938:GLY:O	1.80	0.80
8:G:131:SER:H	8:G:134:ALA:N	1.80	0.80
1:1:87:DA:C2	2:2:39:DT:N3	2.50	0.80
3:A:828:LEU:CD1	3:A:832:ALA:HB3	2.06	0.80
4:B:225:MET:O	4:B:232:LEU:N	2.13	0.80
4:B:250:HIS:CB	4:B:254:LYS:HZ3	1.90	0.80
4:B:358:LYS:HD3	4:B:412:ILE:CD1	2.08	0.80
4:B:565:THR:HG22	4:B:571:VAL:HG22	1.62	0.80
4:B:1040:TYR:HD2	4:B:1044:ASP:H	1.30	0.80
5:C:102:ASN:HA	5:C:130:ILE:CD1	2.11	0.80
9:X:47:LEU:HA	9:X:100:LEU:HA	1.64	0.80
9:Y:126:LEU:HD21	9:Y:130:ILE:HG13	1.64	0.80
3:A:29:ASP:OD1	3:A:32:GLU:N	2.15	0.80
3:A:257:LEU:O	3:A:260:ARG:N	2.15	0.80
3:A:599:VAL:HG22	3:A:615:PRO:CG	2.10	0.80
4:B:462:GLN:HA	4:B:472:THR:HG21	1.64	0.80
4:B:919:GLY:CA	4:B:940:ILE:O	2.30	0.80
4:B:1027:CYS:SG	4:B:1084:SER:HB2	2.22	0.80
5:C:55:ALA:HB1	5:C:57:ARG:HH22	1.45	0.80
6:E:598:GLN:O	6:E:602:ILE:HD11	1.81	0.80
1:1:71:DT:C5'	9:X:145:MET:HE1	2.13	0.79
3:A:1090:GLU:HG3	3:A:1091:THR:H	1.47	0.79
4:B:208:ILE:HB	4:B:210:ARG:HE	1.47	0.79
4:B:250:HIS:H	4:B:250:HIS:CD2	1.98	0.79
5:C:58:ILE:HA	5:C:138:MET:SD	2.21	0.79
1:1:74:DT:O4	2:2:52:DA:N6	2.14	0.79
3:A:968:PHE:CZ	3:A:972:VAL:HG23	2.11	0.79
5:D:15:GLU:HB2	5:D:18:ASN:HD21	1.46	0.79
6:E:63:PHE:O	6:E:102:ARG:NH1	2.16	0.79
6:E:419:LEU:HD23	6:E:420:GLU:N	1.96	0.79
2:2:48:DT:H1'	2:2:49:DT:H5'	1.64	0.79
2:2:49:DT:H3'	9:X:176:HIS:CE1	2.17	0.79
3:A:103:ASN:HB2	3:A:105:GLU:OE1	1.83	0.79
3:A:581:GLN:O	3:A:584:ARG:N	2.15	0.79
3:A:707:ARG:HA	3:A:710:GLN:HB3	1.64	0.79
3:A:741:PRO:HB2	3:A:742:ASN:OD1	1.83	0.79
3:A:762:TRP:CD1	3:A:763:VAL:N	2.50	0.79
4:B:460:PRO:HA	4:B:474:ALA:HA	1.64	0.79
4:B:552:THR:O	4:B:563:LEU:HG	1.82	0.79
5:D:201:ASN:OD1	5:D:202:GLY:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:99:GLU:OE2	9:X:100:LEU:N	2.14	0.79
3:A:970:ARG:HH22	4:B:120:ASN:CA	1.93	0.79
4:B:36:LEU:HD12	4:B:37:LYS:N	1.95	0.79
4:B:49:VAL:O	4:B:49:VAL:HG13	1.82	0.79
4:B:73:ILE:O	4:B:76:THR:HB	1.83	0.79
4:B:397:PRO:HB2	4:B:399:PRO:HD2	1.64	0.79
5:C:172:PRO:O	5:C:200:THR:OG1	1.98	0.79
5:C:200:THR:OG1	5:C:201:ASN:N	2.02	0.79
5:D:54:THR:O	5:D:166:ILE:HG22	1.83	0.79
6:E:184:VAL:HG12	6:E:185:GLU:N	1.98	0.79
6:E:202:LEU:CD1	6:E:235:ILE:HG23	2.13	0.79
9:X:47:LEU:CD1	9:X:52:VAL:HG21	2.12	0.79
3:A:259:SER:OG	3:A:260:ARG:N	1.99	0.79
3:A:599:VAL:HG23	3:A:607:ARG:O	1.83	0.79
3:A:606:ILE:O	3:A:608:VAL:HG22	1.80	0.79
4:B:147:MET:HG2	4:B:159:ILE:CD1	2.13	0.79
4:B:357:ILE:HG23	4:B:387:LEU:HD23	1.63	0.79
4:B:763:GLY:O	4:B:801:GLN:CG	2.31	0.79
6:E:359:ARG:O	6:E:360:SER:OG	1.99	0.79
6:E:533:LYS:CA	6:E:556:VAL:HG13	2.13	0.79
7:F:37:ASN:N	7:F:37:ASN:OD1	2.01	0.79
9:Y:216:VAL:HB	9:Y:220:ARG:HA	1.63	0.79
3:A:289:VAL:O	3:A:289:VAL:HG13	1.82	0.79
3:A:417:PHE:C	3:A:419:VAL:H	1.88	0.79
4:B:463:LYS:N	4:B:472:THR:HG21	1.97	0.79
5:C:54:THR:O	5:C:166:ILE:HG22	1.83	0.79
6:E:154:GLU:HG3	6:E:155:THR:N	1.94	0.79
8:G:326:LEU:HD21	8:G:343:LEU:CD2	2.13	0.79
9:X:176:HIS:CA	9:X:179:ILE:HD12	2.12	0.79
1:1:116:DC:N4	2:2:9:DC:N4	2.31	0.79
3:A:451:ALA:HB1	3:A:459:LEU:HD12	1.63	0.79
4:B:16:LEU:HD23	4:B:16:LEU:C	2.07	0.79
6:E:561:ASP:HA	6:E:604:GLN:HG2	1.63	0.79
8:G:110:LEU:CD1	8:G:152:ARG:N	2.45	0.79
8:G:350:THR:HG23	8:G:352:GLU:HB2	1.65	0.79
9:X:30:ARG:HG3	9:X:97:PRO:HD3	1.63	0.79
3:A:30:LEU:C	3:A:30:LEU:HD12	2.08	0.79
3:A:184:TRP:CD2	3:A:193:LEU:CD1	2.66	0.79
3:A:704:ILE:HD12	3:A:708:LEU:HD22	1.65	0.79
3:A:720:GLU:O	3:A:839:TYR:HA	1.83	0.79
3:A:941:ASP:N	3:A:941:ASP:OD1	2.02	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:88:VAL:HG13	4:B:369:ARG:HA	1.63	0.79
4:B:352:LYS:CE	4:B:358:LYS:CE	2.58	0.79
4:B:757:SER:CB	4:B:768:MET:HG3	2.09	0.79
4:B:1037:LYS:CD	4:B:1052:ILE:CG2	2.53	0.79
6:E:401:ILE:O	6:E:404:ALA:N	2.15	0.79
6:E:402:LYS:NZ	8:G:390:ARG:NH2	2.31	0.79
9:X:69:LEU:CG	9:X:70:ARG:H	1.95	0.79
2:2:8:DC:H1'	2:2:9:DC:C4	2.16	0.79
3:A:880:VAL:HG22	3:A:881:ASP:N	1.97	0.79
4:B:453:VAL:HG23	4:B:988:VAL:CG2	1.97	0.79
4:B:1040:TYR:HB3	4:B:1048:ALA:C	2.07	0.79
5:C:99:LEU:HD11	5:C:101:VAL:HG23	1.65	0.79
6:E:69:TRP:NE1	6:E:82:ARG:HG3	1.98	0.79
8:G:127:ASP:HB2	8:G:129:ARG:HD3	1.64	0.79
8:G:302:ILE:HG22	8:G:303:GLU:N	1.97	0.79
1:1:85:DG:C6	2:2:41:DC:N3	2.50	0.79
3:A:220:GLN:HB2	3:A:221:LYS:HD3	1.63	0.79
3:A:523:GLN:O	3:A:524:VAL:HG23	1.81	0.79
3:A:532:VAL:CG1	3:A:540:SER:HB2	2.12	0.79
3:A:597:ASP:O	3:A:615:PRO:HD3	1.83	0.79
4:B:374:GLU:HB2	4:B:416:GLN:HG2	1.65	0.79
4:B:681:LEU:HD13	4:B:683:GLU:H	1.46	0.79
4:B:1226:GLU:OE1	4:B:1226:GLU:N	2.16	0.79
5:C:92:SER:CB	5:C:144:ARG:HE	1.96	0.79
6:E:538:LEU:C	6:E:540:ASP:N	2.37	0.79
1:1:115:DA:H2	2:2:11:DT:C2	2.01	0.78
3:A:154:ASP:OD1	3:A:158:ARG:N	2.16	0.78
3:A:1053:ASN:O	3:A:1056:VAL:N	2.15	0.78
4:B:85:ILE:HD12	4:B:372:HIS:HB3	1.65	0.78
4:B:89:GLU:OE1	4:B:89:GLU:N	2.16	0.78
4:B:203:VAL:HA	4:B:1201:SER:HB3	1.64	0.78
4:B:260:ARG:HG3	4:B:261:ASN:HD21	1.46	0.78
4:B:678:ASN:C	4:B:680:ILE:H	1.90	0.78
9:Y:205:ILE:HA	9:Y:209:LYS:O	1.83	0.78
1:1:84:DA:H1'	1:1:85:DG:O5'	1.82	0.78
1:1:121:DG:H1'	1:1:122:DC:H5'	1.65	0.78
3:A:64:GLU:N	3:A:103:ASN:HA	1.97	0.78
4:B:91:PHE:CE1	4:B:156:ASP:CG	2.60	0.78
4:B:361:ARG:N	4:B:392:GLU:H	1.80	0.78
5:C:108:THR:CG2	5:C:124:THR:H	1.96	0.78
5:C:149:ARG:NH1	5:C:170:PHE:HZ	1.80	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:126:LEU:HA	9:Y:129:ARG:NH1	1.98	0.78
3:A:41:PHE:HA	3:A:45:GLY:HA3	1.64	0.78
3:A:270:GLY:C	3:A:290:ARG:NH2	2.41	0.78
3:A:589:VAL:CA	3:A:653:GLN:HE22	1.97	0.78
4:B:352:LYS:HE2	4:B:358:LYS:NZ	1.97	0.78
4:B:496:LEU:HA	4:B:511:ALA:CA	2.10	0.78
5:D:84:GLU:H	5:D:84:GLU:CD	1.91	0.78
6:E:494:SER:O	6:E:496:ASN:N	2.15	0.78
9:X:47:LEU:HD23	9:X:69:LEU:CG	2.13	0.78
9:Y:69:LEU:CG	9:Y:70:ARG:H	1.95	0.78
3:A:344:GLU:O	3:A:347:ILE:N	2.17	0.78
8:G:194:ALA:O	8:G:197:LYS:N	2.16	0.78
8:G:317:LEU:O	8:G:318:LEU:C	2.25	0.78
9:Y:126:LEU:CD2	9:Y:130:ILE:HG13	2.14	0.78
3:A:263:ASP:O	3:A:266:ARG:N	2.16	0.78
3:A:328:VAL:HG23	3:A:329:GLY:N	1.97	0.78
3:A:609:ARG:HH22	3:A:637:TYR:HB2	1.48	0.78
3:A:729:THR:O	3:A:732:GLY:N	2.17	0.78
3:A:1039:THR:OG1	3:A:1040:VAL:N	2.12	0.78
4:B:17:ILE:O	4:B:18:SER:C	2.24	0.78
4:B:162:ASN:OD1	4:B:164:ARG:N	2.14	0.78
4:B:379:VAL:HG22	4:B:380:GLU:OE1	1.83	0.78
6:E:49:THR:OG1	6:E:50:LEU:N	2.14	0.78
6:E:98:VAL:HG11	6:E:102:ARG:NH2	1.98	0.78
6:E:620:GLN:CD	6:E:620:GLN:C	2.52	0.78
9:X:154:LEU:C	9:X:157:CYS:HG	1.88	0.78
9:Y:99:GLU:OE2	9:Y:100:LEU:N	2.14	0.78
1:1:73:DA:N1	2:2:53:DT:N3	2.13	0.78
3:A:396:LEU:O	3:A:398:HIS:N	2.16	0.78
4:B:618:LYS:C	4:B:621:TYR:CZ	2.61	0.78
4:B:631:TRP:NE1	4:B:633:PRO:HA	1.98	0.78
4:B:759:SER:H	4:B:761:GLN:HG2	1.48	0.78
4:B:848:ALA:HA	4:B:877:LEU:HD23	1.65	0.78
4:B:941:VAL:N	4:B:965:THR:O	2.14	0.78
5:C:77:GLU:HA	5:C:80:MET:CG	2.14	0.78
5:C:88:LYS:N	5:C:121:ILE:HD11	1.97	0.78
6:E:216:ALA:HA	6:E:219:GLN:HG2	1.64	0.78
8:G:287:GLU:HB2	8:G:297:ARG:CG	2.12	0.78
8:G:318:LEU:HD11	8:G:390:ARG:O	1.83	0.78
8:G:336:VAL:HG22	8:G:354:ILE:HD13	1.64	0.78
9:Y:54:LEU:CB	9:Y:67:ALA:HB3	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:102:DA:H1'	1:1:103:DA:H5'	1.65	0.78
4:B:266:ASP:OD1	4:B:266:ASP:N	2.11	0.78
4:B:466:ARG:NH1	4:B:977:GLY:O	2.17	0.78
5:D:207:GLN:CD	5:D:207:GLN:N	2.41	0.78
6:E:498:LEU:N	6:E:498:LEU:HD23	1.99	0.78
9:Y:162:VAL:CG2	9:Y:171:ASP:HB2	2.12	0.78
1:1:80:DA:OP1	1:1:80:DA:H4'	1.82	0.78
2:2:50:DG:H2'	9:X:190:VAL:HG11	1.65	0.78
3:A:215:HIS:CD2	3:A:219:PHE:CD1	2.71	0.78
3:A:596:GLY:CA	3:A:662:ARG:NH2	2.46	0.78
3:A:735:GLU:CA	3:A:772:LYS:CG	2.61	0.78
4:B:29:THR:O	4:B:32:MET:N	2.17	0.78
4:B:45:THR:O	4:B:48:GLY:N	2.16	0.78
4:B:441:ALA:HB2	4:B:1001:ARG:HH22	1.47	0.78
4:B:522:VAL:HA	4:B:863:ASP:H	1.47	0.78
4:B:630:LEU:HD22	4:B:722:LEU:HD11	1.65	0.78
5:D:101:VAL:HB	5:D:136:LEU:HD22	1.65	0.78
6:E:42:PRO:HB3	6:E:280:ILE:HB	1.66	0.78
6:E:332:LYS:NZ	8:G:297:ARG:NH2	2.32	0.78
9:Y:78:LEU:HD11	9:Y:88:ARG:NH1	1.96	0.78
3:A:374:ILE:O	3:A:376:GLU:N	2.17	0.78
4:B:79:ARG:HB2	4:B:85:ILE:HD13	1.65	0.78
4:B:198:ARG:HH22	6:E:346:ARG:NH1	1.80	0.78
5:C:47:ASN:C	5:C:48:LEU:HG	2.01	0.78
6:E:520:LEU:HD23	6:E:520:LEU:C	2.08	0.78
3:A:74:LEU:HD22	3:A:95:MET:CA	2.03	0.78
3:A:340:LEU:O	3:A:343:LEU:N	2.17	0.78
3:A:349:GLU:O	3:A:352:THR:N	2.16	0.78
3:A:573:LEU:HD23	3:A:685:ASN:HD22	1.46	0.78
3:A:900:GLU:O	3:A:901:CYS:C	2.22	0.78
5:C:108:THR:CG2	5:C:124:THR:HA	2.14	0.78
1:1:112:DG:H3'	3:A:414:ARG:CZ	2.14	0.77
3:A:330:GLU:O	3:A:331:LEU:C	2.26	0.77
3:A:396:LEU:O	3:A:399:LYS:N	2.17	0.77
3:A:815:VAL:HG12	3:A:816:ASP:OD1	1.83	0.77
3:A:893:MET:HE3	4:B:163:PHE:CD2	2.18	0.77
4:B:149:ASP:HB2	4:B:150:PRO:HD2	1.66	0.77
4:B:170:THR:OG1	4:B:171:GLU:OE1	2.02	0.77
4:B:726:GLN:HG2	4:B:728:VAL:O	1.84	0.77
4:B:916:VAL:H	4:B:943:VAL:CG1	1.95	0.77
6:E:325:GLY:H	6:E:331:LEU:HD11	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:382:GLU:N	6:E:382:GLU:CD	2.40	0.77
8:G:314:SER:OG	8:G:315:LYS:N	2.07	0.77
8:G:377:ARG:HA	8:G:382:ASN:HB3	1.66	0.77
9:X:35:PHE:HB2	9:X:39:ASP:OD2	1.83	0.77
9:X:78:LEU:CD2	9:X:88:ARG:HD3	2.13	0.77
1:1:58:DA:H2	2:2:68:DT:C2	2.01	0.77
3:A:184:TRP:CG	3:A:193:LEU:HD11	2.19	0.77
3:A:188:ASP:O	3:A:189:LYS:HG2	1.83	0.77
4:B:10:LYS:NZ	4:B:14:ARG:NH2	2.32	0.77
4:B:197:THR:OG1	4:B:198:ARG:N	2.03	0.77
4:B:381:SER:OG	4:B:429:LEU:O	2.01	0.77
4:B:929:ALA:HB3	4:B:932:ILE:HB	1.64	0.77
6:E:146:VAL:HG22	6:E:187:GLY:HA3	1.66	0.77
6:E:227:ARG:O	6:E:231:ILE:HG13	1.84	0.77
6:E:300:ARG:O	6:E:301:ASN:C	2.25	0.77
9:Y:28:PHE:H	9:Y:98:VAL:HB	1.48	0.77
3:A:333:GLN:O	3:A:336:VAL:N	2.15	0.77
3:A:592:SER:N	3:A:667:GLN:O	2.18	0.77
4:B:186:THR:O	4:B:188:LEU:N	2.17	0.77
4:B:453:VAL:CG1	4:B:455:PHE:CE1	2.67	0.77
4:B:646:LEU:HB3	4:B:648:VAL:HG13	1.66	0.77
5:C:149:ARG:NH1	5:C:170:PHE:CZ	2.51	0.77
6:E:257:ARG:HA	6:E:272:LEU:HD12	1.64	0.77
9:Y:53:LYS:HE2	9:Y:68:LEU:HD22	1.64	0.77
1:1:77:DA:H1'	1:1:78:DA:C8	2.20	0.77
3:A:270:GLY:C	3:A:273:GLY:H	1.91	0.77
4:B:266:ASP:OD1	4:B:267:ASP:N	2.17	0.77
4:B:352:LYS:HD3	4:B:358:LYS:HZ3	1.47	0.77
4:B:848:ALA:HB1	4:B:879:LYS:HG2	1.65	0.77
4:B:1173:VAL:HG22	4:B:1190:TYR:CE1	2.20	0.77
5:C:130:ILE:CG2	5:C:136:LEU:HD11	2.14	0.77
6:E:98:VAL:CG1	6:E:102:ARG:NH2	2.48	0.77
6:E:303:LYS:O	6:E:304:ARG:C	2.25	0.77
6:E:328:ASN:O	6:E:329:ARG:HG3	1.84	0.77
8:G:187:GLY:O	8:G:190:GLY:N	2.18	0.77
8:G:216:GLN:OE1	8:G:217:ALA:N	2.17	0.77
9:X:130:ILE:HG13	9:Y:130:ILE:HD12	1.64	0.77
3:A:576:THR:O	3:A:578:LEU:N	2.16	0.77
4:B:66:LEU:HD11	4:B:143:MET:CE	2.15	0.77
4:B:378:PHE:CD1	4:B:413:VAL:CG1	2.68	0.77
4:B:713:GLU:CD	4:B:716:GLY:H	1.91	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1151:LYS:HB2	4:B:1195:LEU:CD2	2.14	0.77
9:X:43:ARG:HE	9:X:44:VAL:HB	1.47	0.77
3:A:96:TYR:HA	3:A:115:PHE:CA	2.14	0.77
4:B:99:ASN:OD1	4:B:424:LEU:N	2.16	0.77
4:B:885:ARG:H	4:B:898:LEU:HB2	1.49	0.77
5:D:205:SER:HG	5:D:206:PRO:CD	1.98	0.77
6:E:46:ASN:HD22	6:E:49:THR:HG22	1.50	0.77
3:A:49:GLU:CD	3:A:49:GLU:C	2.52	0.77
3:A:161:TYR:HE2	3:A:308:GLU:HA	1.49	0.77
3:A:347:ILE:O	3:A:351:MET:HG3	1.84	0.77
3:A:606:ILE:C	3:A:609:ARG:NE	2.42	0.77
3:A:737:THR:OG1	3:A:739:GLU:O	2.02	0.77
3:A:1093:ALA:O	3:A:1094:ASP:C	2.21	0.77
4:B:553:VAL:HG21	4:B:562:TYR:CE2	2.20	0.77
4:B:583:GLN:HG3	4:B:584:ASN:N	1.99	0.77
4:B:763:GLY:O	4:B:801:GLN:HG3	1.84	0.77
4:B:1029:LEU:HB3	4:B:1083:LEU:HD22	1.67	0.77
5:C:97:GLY:HA3	5:C:114:LEU:HA	1.65	0.77
5:C:214:ALA:HB2	5:D:224:LEU:HD23	1.66	0.77
3:A:215:HIS:NE2	3:A:219:PHE:CE1	2.42	0.77
3:A:220:GLN:O	3:A:221:LYS:HD2	1.84	0.77
3:A:596:GLY:H	3:A:662:ARG:NH2	1.82	0.77
4:B:208:ILE:HG13	4:B:314:ALA:HA	1.65	0.77
4:B:411:TYR:O	4:B:413:VAL:HG23	1.85	0.77
4:B:854:GLN:H	4:B:875:GLN:H	1.29	0.77
5:C:130:ILE:CD1	5:C:136:LEU:HG	2.10	0.77
5:D:77:GLU:HA	5:D:80:MET:CG	2.14	0.77
6:E:95:GLU:HG2	6:E:96:SER:N	1.98	0.77
6:E:206:ALA:C	6:E:210:ARG:CD	2.58	0.77
6:E:224:LEU:O	6:E:227:ARG:N	2.17	0.77
6:E:541:VAL:HG13	6:E:542:ILE:N	1.99	0.77
8:G:218:ILE:O	8:G:219:THR:C	2.24	0.77
1:1:119:DA:C4	2:2:6:DA:C6	2.73	0.77
3:A:328:VAL:O	3:A:331:LEU:N	2.18	0.77
4:B:101:THR:N	4:B:420:LYS:O	2.17	0.77
4:B:546:LEU:HB2	4:B:830:LEU:N	1.99	0.77
6:E:206:ALA:C	6:E:210:ARG:HG3	2.09	0.77
6:E:321:ARG:NE	6:E:321:ARG:CA	2.47	0.77
8:G:356:GLN:CA	8:G:360:VAL:HA	2.12	0.77
9:Y:78:LEU:HG	9:Y:88:ARG:HH11	1.48	0.77
1:1:60:DT:H1'	1:1:61:DT:C6	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:117:DG:H4'	1:1:118:DG:OP1	1.84	0.77
3:A:198:LEU:HD23	3:A:208:GLU:CB	2.15	0.77
3:A:520:THR:O	3:A:523:GLN:NE2	2.18	0.77
4:B:92:GLN:HB2	4:B:369:ARG:O	1.84	0.77
4:B:93:LYS:HE2	4:B:372:HIS:CE1	2.20	0.77
4:B:600:THR:HA	4:B:785:VAL:O	1.84	0.77
4:B:927:GLU:HA	4:B:933:PHE:CE1	2.20	0.77
6:E:582:GLY:HA3	6:E:598:GLN:HB2	1.67	0.77
7:F:37:ASN:OD1	7:F:38:ARG:N	2.18	0.77
9:X:56:ARG:NH1	9:X:90:TYR:CD2	2.52	0.77
9:X:148:ARG:HH22	9:Y:143:ARG:HE	1.33	0.77
3:A:48:GLU:OE1	3:A:48:GLU:N	2.18	0.76
4:B:103:GLU:HB3	4:B:354:ASP:HB2	1.68	0.76
4:B:176:SER:O	4:B:179:ALA:N	2.18	0.76
4:B:453:VAL:CG1	4:B:455:PHE:HE1	1.98	0.76
4:B:1090:PRO:HA	4:B:1093:ILE:HG12	1.66	0.76
6:E:431:ASN:HB2	6:E:441:ILE:HD12	1.66	0.76
6:E:538:LEU:C	6:E:539:ASP:CG	2.52	0.76
8:G:249:LEU:HD22	8:G:265:ARG:HH11	1.50	0.76
2:2:41:DC:H4'	2:2:42:DT:H5'	1.65	0.76
3:A:253:GLY:O	3:A:256:LEU:HB3	1.84	0.76
3:A:549:ASP:OD1	3:A:550:ALA:N	2.17	0.76
3:A:610:VAL:HB	3:A:636:ARG:HB2	1.67	0.76
3:A:624:ASN:HB2	3:A:627:LEU:HB3	1.66	0.76
3:A:887:LEU:CD1	4:B:131:ARG:NH1	2.47	0.76
3:A:1054:ALA:CA	3:A:1059:LYS:NZ	2.48	0.76
4:B:125:MET:CG	6:E:515:LEU:HD22	2.09	0.76
4:B:141:VAL:O	4:B:162:ASN:ND2	2.18	0.76
4:B:252:LYS:NZ	4:B:255:GLU:HA	1.98	0.76
4:B:271:GLU:CG	4:B:272:ILE:N	2.46	0.76
4:B:539:ILE:HD12	4:B:764:ARG:NH2	2.01	0.76
4:B:1123:ASN:O	4:B:1124:GLU:C	2.25	0.76
3:A:344:GLU:OE2	3:A:348:ARG:HB2	1.84	0.76
3:A:586:SER:OG	3:A:588:MET:N	2.17	0.76
4:B:32:MET:O	4:B:35:LYS:N	2.19	0.76
4:B:100:GLY:HA3	4:B:421:GLY:CA	2.15	0.76
4:B:659:GLU:OE1	4:B:661:VAL:HG13	1.84	0.76
4:B:721:GLU:CD	4:B:723:ARG:HA	2.09	0.76
4:B:1160:THR:N	4:B:1180:MET:CE	2.47	0.76
6:E:304:ARG:O	6:E:307:GLN:HB3	1.86	0.76
9:X:114:GLU:HB2	9:X:118:LEU:HD12	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:107:GLY:N	4:B:557:GLN:HB3	2.00	0.76
4:B:171:GLU:O	4:B:174:ILE:N	2.18	0.76
4:B:304:ALA:HB1	6:E:438:ARG:NH2	1.99	0.76
4:B:352:LYS:CE	4:B:358:LYS:NZ	2.47	0.76
4:B:1109:CYS:SG	4:B:1110:ALA:N	2.57	0.76
5:C:77:GLU:C	5:C:80:MET:H	1.92	0.76
6:E:230:VAL:O	6:E:231:ILE:C	2.27	0.76
6:E:487:ALA:O	6:E:488:ARG:C	2.28	0.76
6:E:498:LEU:HD12	6:E:503:GLY:O	1.85	0.76
6:E:615:TYR:O	6:E:616:ASN:C	2.27	0.76
8:G:77:TYR:CD1	8:G:78:THR:HG23	2.21	0.76
8:G:326:LEU:CD2	8:G:343:LEU:HD21	2.16	0.76
1:1:120:DT:C4	1:1:121:DG:C6	2.74	0.76
3:A:136:VAL:HG22	3:A:137:ILE:N	2.01	0.76
4:B:34:ASP:O	4:B:35:LYS:C	2.25	0.76
4:B:279:GLU:OE1	4:B:279:GLU:N	2.18	0.76
4:B:1050:LYS:CB	4:B:1061:TYR:HA	2.16	0.76
5:D:25:LEU:HD13	5:D:194:LEU:HB3	1.66	0.76
6:E:590:TYR:HD1	6:E:607:TYR:HB3	1.50	0.76
8:G:258:THR:O	8:G:262:ILE:HG13	1.84	0.76
3:A:57:THR:OG1	3:A:64:GLU:HA	1.84	0.76
3:A:383:LEU:N	3:A:383:LEU:HD12	1.99	0.76
4:B:445:VAL:O	4:B:994:LEU:HB2	1.85	0.76
4:B:852:SER:O	4:B:876:ILE:HG22	1.86	0.76
5:C:28:LEU:HB2	5:C:192:ASP:HB2	1.68	0.76
5:C:147:GLY:HA2	5:C:170:PHE:HB2	1.66	0.76
5:D:77:GLU:OE2	5:D:78:ILE:HG13	1.85	0.76
6:E:62:ILE:HG13	6:E:63:PHE:CD1	2.20	0.76
6:E:509:PRO:HA	6:E:513:MET:CE	2.13	0.76
6:E:533:LYS:HB2	6:E:556:VAL:HG11	1.65	0.76
3:A:29:ASP:OD1	3:A:31:ILE:N	2.17	0.76
3:A:122:MET:HG2	3:A:123:THR:H	1.51	0.76
3:A:806:VAL:HG12	3:A:807:PRO:O	1.85	0.76
4:B:173:ILE:O	4:B:176:SER:N	2.19	0.76
4:B:260:ARG:O	4:B:262:THR:OG1	2.04	0.76
4:B:301:TRP:HA	4:B:308:MET:HA	1.68	0.76
4:B:361:ARG:CA	4:B:391:LYS:HB2	2.15	0.76
4:B:732:GLU:C	4:B:734:PRO:HD3	2.10	0.76
4:B:1232:LEU:HD11	6:E:12:VAL:HG13	1.66	0.76
5:C:107:ILE:HD11	5:C:136:LEU:CD1	2.16	0.76
5:C:151:VAL:HG23	5:C:167:ASP:CB	2.11	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:77:GLU:C	5:D:80:MET:H	1.92	0.76
5:D:186:ASP:C	5:D:188:SER:H	1.93	0.76
6:E:402:LYS:HZ2	8:G:390:ARG:NH2	1.84	0.76
9:Y:35:PHE:CE2	9:Y:88:ARG:NE	2.53	0.76
9:Y:47:LEU:HD21	9:Y:52:VAL:HB	1.68	0.76
3:A:151:SER:HB2	3:A:160:THR:O	1.86	0.76
3:A:215:HIS:ND1	3:A:309:TYR:CD2	2.50	0.76
4:B:360:PRO:HA	4:B:390:ARG:CB	2.16	0.76
4:B:479:LEU:HG	4:B:973:ARG:CG	2.15	0.76
4:B:519:HIS:O	4:B:865:ILE:N	2.19	0.76
4:B:521:GLY:CA	4:B:760:GLN:HB3	2.14	0.76
4:B:698:GLU:N	4:B:698:GLU:OE1	2.18	0.76
6:E:594:ARG:HG3	6:E:603:SER:HB2	1.66	0.76
3:A:792:PHE:CZ	8:G:385:LEU:HD12	2.15	0.76
4:B:71:GLU:HA	4:B:74:ARG:HH11	1.51	0.76
4:B:273:GLU:O	4:B:276:GLY:N	2.17	0.76
4:B:646:LEU:HD23	4:B:662:LYS:HA	1.68	0.76
9:X:111:ALA:O	9:X:118:LEU:HD13	1.86	0.76
1:1:76:DC:O2	2:2:50:DG:N2	2.14	0.76
3:A:101:LEU:HA	3:A:109:ILE:HA	1.66	0.76
4:B:157:LEU:HB2	4:B:160:LYS:HZ1	1.50	0.76
4:B:169:VAL:O	4:B:170:THR:C	2.28	0.76
4:B:242:ARG:H	4:B:264:ILE:HG22	1.49	0.76
4:B:347:GLN:HG2	4:B:411:TYR:CE2	2.15	0.76
4:B:463:LYS:HG3	4:B:467:GLN:OE1	1.85	0.76
4:B:543:SER:HA	4:B:831:GLN:HG3	1.67	0.76
4:B:1078:PRO:C	4:B:1100:LEU:CD1	2.59	0.76
6:E:481:LEU:O	6:E:484:GLN:N	2.19	0.76
8:G:324:LYS:O	8:G:327:ASP:N	2.19	0.76
9:X:32:LYS:HB2	9:X:94:ALA:HB3	1.67	0.76
9:X:57:VAL:HA	9:X:63:GLU:HG3	1.68	0.76
9:Y:48:LEU:HD11	9:Y:101:LEU:HB2	1.68	0.76
1:1:95:DT:C2	1:1:96:DC:C5	2.74	0.75
2:2:28:DC:H5	8:G:237:GLU:HG3	1.49	0.75
3:A:274:ARG:O	3:A:278:ASN:ND2	2.19	0.75
3:A:555:MET:C	3:A:559:MET:HE1	2.11	0.75
3:A:926:GLU:OE2	3:A:928:SER:OG	2.02	0.75
4:B:37:LYS:O	4:B:40:GLY:N	2.19	0.75
4:B:39:LEU:O	4:B:40:GLY:C	2.29	0.75
4:B:521:GLY:H	4:B:865:ILE:H	1.34	0.75
4:B:746:VAL:HG11	4:B:791:LEU:HD22	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:817:GLU:OE1	4:B:831:GLN:N	2.20	0.75
5:C:159:THR:HG22	5:C:163:PHE:HB3	1.68	0.75
6:E:530:GLY:HA3	6:E:550:ILE:CA	2.14	0.75
8:G:350:THR:OG1	8:G:352:GLU:OE1	2.03	0.75
9:X:36:PHE:N	9:X:39:ASP:OD2	2.16	0.75
3:A:192:LYS:HG2	3:A:193:LEU:H	1.49	0.75
3:A:276:LYS:O	3:A:279:LYS:N	2.19	0.75
3:A:674:SER:O	3:A:674:SER:OG	1.87	0.75
3:A:1032:TYR:O	3:A:1035:GLN:N	2.19	0.75
4:B:98:TRP:O	4:B:101:THR:OG1	2.02	0.75
4:B:252:LYS:C	4:B:254:LYS:H	1.94	0.75
5:C:77:GLU:OE2	5:C:78:ILE:HG13	1.85	0.75
6:E:145:TYR:HD2	6:E:186:VAL:HB	1.51	0.75
1:1:87:DA:H2”	1:1:88:DA:H5”	1.68	0.75
1:1:106:DG:H4’	8:G:171:LYS:HD3	1.64	0.75
3:A:63:LEU:HD12	3:A:103:ASN:CB	2.16	0.75
3:A:92:ALA:HA	3:A:120:PRO:HA	1.66	0.75
3:A:597:ASP:OD1	3:A:662:ARG:CZ	2.34	0.75
4:B:325:GLU:O	4:B:327:GLY:N	2.20	0.75
4:B:491:PRO:HG2	4:B:494:ALA:HB2	1.66	0.75
4:B:692:LEU:HD13	4:B:737:LEU:HA	1.69	0.75
5:D:59:ALA:HB3	5:D:137:GLU:HG2	1.66	0.75
8:G:232:PRO:HB3	8:G:234:HIS:HE1	1.50	0.75
9:X:176:HIS:O	9:X:189:THR:CG2	2.34	0.75
9:Y:34:ILE:CG2	9:Y:45:TYR:CD1	2.69	0.75
3:A:66:HIS:CD2	3:A:100:ARG:HB3	2.21	0.75
3:A:559:MET:O	3:A:562:GLN:N	2.16	0.75
3:A:986:VAL:HG21	6:E:452:ARG:HB2	1.69	0.75
3:A:1070:PHE:O	3:A:1073:LEU:N	2.19	0.75
3:A:1076:GLU:O	3:A:1077:LEU:C	2.28	0.75
4:B:763:GLY:C	4:B:801:GLN:HG3	2.10	0.75
6:E:365:GLY:HA3	6:E:455:GLN:HB3	1.69	0.75
8:G:85:TYR:O	8:G:88:GLU:HG3	1.86	0.75
9:X:35:PHE:O	9:X:92:ALA:N	2.15	0.75
1:1:94:DT:OP1	6:E:47:TYR:OH	1.95	0.75
2:2:5:DC:H1’	2:2:6:DA:N7	2.01	0.75
3:A:535:VAL:CG2	3:A:540:SER:CB	2.58	0.75
3:A:540:SER:OG	3:A:541:MET:CE	2.34	0.75
3:A:540:SER:OG	3:A:541:MET:HE2	1.87	0.75
3:A:810:GLU:OE1	3:A:810:GLU:N	2.20	0.75
4:B:384:ILE:CG2	4:B:394:SER:N	2.41	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1180:MET:HB2	4:B:1187:ARG:HH22	1.51	0.75
4:B:1215:GLU:HB3	4:B:1219:VAL:H	1.51	0.75
5:C:84:GLU:H	5:C:84:GLU:CD	1.91	0.75
5:C:143:GLU:OE1	5:C:143:GLU:N	2.19	0.75
8:G:88:GLU:O	8:G:91:ARG:N	2.19	0.75
1:1:69:DA:H1'	1:1:70:DC:H5'	1.69	0.75
3:A:79:TYR:HB3	3:A:83:GLU:HB2	1.69	0.75
3:A:179:ARG:NE	3:A:179:ARG:HA	2.01	0.75
3:A:599:VAL:O	3:A:659:ILE:HG23	1.86	0.75
3:A:751:LEU:HD21	3:A:768:ILE:HB	1.67	0.75
4:B:196:LEU:O	4:B:197:THR:C	2.28	0.75
4:B:453:VAL:HG22	4:B:482:ILE:HD12	1.69	0.75
4:B:528:ALA:O	4:B:535:ARG:NH2	2.19	0.75
4:B:537:ILE:H	4:B:838:LEU:N	1.84	0.75
4:B:831:GLN:HB3	4:B:833:VAL:HG22	1.68	0.75
5:D:99:LEU:HD13	5:D:112:PHE:HA	1.68	0.75
6:E:594:ARG:NH2	6:E:602:ILE:HG22	2.00	0.75
1:1:86:DG:H2'	1:1:86:DG:OP2	1.85	0.75
3:A:417:PHE:O	3:A:419:VAL:N	2.20	0.75
3:A:579:GLU:O	3:A:580:ALA:C	2.28	0.75
4:B:192:ASP:O	4:B:195:TYR:HB3	1.86	0.75
4:B:277:VAL:HG12	4:B:278:ALA:N	2.01	0.75
4:B:495:GLU:HB2	4:B:513:THR:HA	1.68	0.75
4:B:714:LEU:CD1	4:B:736:LEU:CD2	2.60	0.75
5:D:40:LEU:O	5:D:41:ARG:C	2.29	0.75
6:E:216:ALA:HB1	6:E:219:GLN:HB2	1.66	0.75
8:G:378:HIS:CG	9:X:57:VAL:HG23	1.97	0.75
4:B:910:ILE:HD12	4:B:943:VAL:HG21	1.69	0.75
4:B:1083:LEU:H	4:B:1083:LEU:HD12	1.51	0.75
5:C:216:ILE:O	5:C:219:ASP:CB	2.35	0.75
5:D:105:THR:OG1	5:D:106:THR:N	2.17	0.75
5:D:112:PHE:HE2	5:D:127:VAL:HG21	1.51	0.75
8:G:249:LEU:CD2	8:G:265:ARG:HH11	1.99	0.75
1:1:71:DT:O5'	9:X:145:MET:HE3	1.86	0.75
3:A:182:LEU:HD11	3:A:222:THR:HB	1.67	0.75
3:A:196:GLN:OE1	3:A:229:PHE:CD2	2.39	0.75
3:A:285:VAL:HG12	3:A:285:VAL:O	1.84	0.75
3:A:397:THR:O	3:A:397:THR:OG1	2.03	0.75
3:A:464:ARG:HB2	3:A:527:VAL:CG1	2.17	0.75
3:A:1028:PHE:HE1	6:E:438:ARG:CG	1.98	0.75
4:B:347:GLN:CD	4:B:356:THR:HG22	2.12	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:473:THR:HB	4:B:977:GLY:H	1.51	0.75
4:B:546:LEU:H	4:B:830:LEU:H	1.35	0.75
4:B:981:GLN:HB3	4:B:982:ILE:HD12	1.68	0.75
4:B:1078:PRO:O	4:B:1100:LEU:CD1	2.35	0.75
4:B:1089:ASN:HB3	4:B:1091:HIS:CD2	2.20	0.75
5:C:12:ASN:HD21	5:C:20:TYR:HB3	1.52	0.75
9:Y:171:ASP:C	9:Y:210:ILE:HD13	2.11	0.75
3:A:633:GLN:C	3:A:635:ILE:N	2.45	0.74
4:B:143:MET:CG	4:B:160:LYS:O	2.32	0.74
4:B:545:VAL:HA	4:B:829:ARG:HD3	1.69	0.74
4:B:574:LEU:HB3	4:B:577:THR:HG22	1.68	0.74
4:B:800:GLU:HG2	4:B:801:GLN:N	1.98	0.74
4:B:939:GLN:HE22	4:B:941:VAL:HG23	1.50	0.74
8:G:329:LEU:O	8:G:329:LEU:CD1	2.30	0.74
1:1:77:DA:C2	2:2:50:DG:C2	2.75	0.74
1:1:86:DG:C2	1:1:87:DA:C4	2.75	0.74
2:2:40:DC:H2"	2:2:41:DC:H2'	1.68	0.74
3:A:109:ILE:HD12	3:A:111:GLU:HB3	1.69	0.74
3:A:1051:ALA:O	3:A:1052:LEU:C	2.28	0.74
4:B:982:ILE:HD13	4:B:994:LEU:HD23	1.69	0.74
6:E:321:ARG:HA	6:E:321:ARG:CZ	2.17	0.74
9:Y:46:PHE:C	9:Y:100:LEU:HD12	2.12	0.74
1:1:73:DA:H2"	1:1:74:DT:H71	1.68	0.74
2:2:34:DA:C6	2:2:35:DA:C6	2.75	0.74
3:A:391:ASN:O	3:A:392:PRO:C	2.27	0.74
4:B:359:LEU:HB2	4:B:392:GLU:HA	1.69	0.74
4:B:707:LEU:CB	4:B:724:TYR:HA	2.16	0.74
4:B:1226:GLU:HG3	6:E:233:ASN:HD21	1.52	0.74
5:C:104:PRO:HA	5:C:131:ALA:HA	1.68	0.74
5:D:46:SER:OG	5:D:47:ASN:N	2.20	0.74
5:D:216:ILE:O	5:D:219:ASP:CB	2.35	0.74
8:G:178:LEU:HG	8:G:222:ILE:HG22	1.68	0.74
8:G:188:SER:O	8:G:191:LEU:N	2.20	0.74
9:X:27:THR:OG1	9:X:98:VAL:C	2.29	0.74
1:1:119:DA:C2	2:2:7:DT:C2	2.74	0.74
3:A:174:LYS:HB2	3:A:186:ARG:HB2	1.70	0.74
3:A:251:LEU:O	3:A:254:GLN:N	2.19	0.74
4:B:147:MET:CG	4:B:159:ILE:CD1	2.65	0.74
4:B:190:THR:CG2	4:B:191:ALA:H	2.00	0.74
4:B:602:GLY:CA	4:B:634:GLU:HG2	2.18	0.74
4:B:626:GLY:N	4:B:746:VAL:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1116:LYS:O	4:B:1119:THR:OG1	2.03	0.74
4:B:1118:GLN:O	4:B:1119:THR:C	2.31	0.74
5:C:208:GLU:HG2	5:C:209:ALA:N	2.01	0.74
9:X:51:ALA:HB2	9:X:160:PHE:CE2	2.22	0.74
9:Y:54:LEU:HD12	9:Y:92:ALA:HA	1.67	0.74
9:Y:77:VAL:HA	9:Y:80:LEU:HD21	1.69	0.74
2:2:32:DA:C2	2:2:33:DA:C4	2.75	0.74
3:A:215:HIS:HB3	3:A:218:TYR:HA	1.70	0.74
3:A:551:ASN:O	3:A:552:ARG:C	2.28	0.74
3:A:588:MET:O	3:A:653:GLN:NE2	2.20	0.74
4:B:266:ASP:CG	4:B:267:ASP:H	1.94	0.74
5:C:13:THR:CG2	5:C:206:PRO:HG2	2.17	0.74
5:C:102:ASN:CA	5:C:130:ILE:HD13	2.17	0.74
5:D:208:GLU:HG2	5:D:209:ALA:N	2.01	0.74
6:E:131:MET:CB	6:E:136:VAL:CG2	2.65	0.74
6:E:527:ALA:HB1	6:E:554:ALA:HA	1.70	0.74
9:Y:48:LEU:HB2	9:Y:99:GLU:HG3	1.70	0.74
9:Y:170:ILE:HG22	9:Y:171:ASP:N	2.01	0.74
3:A:597:ASP:CG	3:A:662:ARG:NH1	2.46	0.74
3:A:685:ASN:OD1	3:A:685:ASN:O	2.06	0.74
3:A:704:ILE:CG2	3:A:708:LEU:CD2	2.65	0.74
3:A:704:ILE:HG21	3:A:708:LEU:CD2	2.18	0.74
4:B:237:THR:O	4:B:239:LEU:N	2.20	0.74
4:B:631:TRP:HD1	4:B:633:PRO:CD	2.01	0.74
5:C:68:VAL:HG23	5:C:69:PRO:HD2	1.70	0.74
6:E:480:SER:OG	6:E:482:GLU:N	2.20	0.74
9:X:154:LEU:C	9:X:157:CYS:SG	2.71	0.74
1:1:71:DT:H3'	9:X:145:MET:HE1	1.69	0.74
3:A:328:VAL:O	3:A:329:GLY:C	2.29	0.74
3:A:1087:HIS:CE1	6:E:11:TYR:CE1	2.75	0.74
4:B:142:GLY:O	4:B:162:ASN:HB3	1.87	0.74
4:B:250:HIS:CE1	4:B:252:LYS:HD2	2.21	0.74
4:B:558:GLY:C	4:B:559:ARG:HD3	2.12	0.74
4:B:653:TYR:CE1	4:B:670:GLY:C	2.66	0.74
4:B:840:LEU:HD11	4:B:843:ASP:OD1	1.86	0.74
4:B:1041:GLY:HA3	4:B:1050:LYS:HG2	1.70	0.74
6:E:76:TYR:CE2	6:E:81:HIS:CD2	2.76	0.74
8:G:187:GLY:O	8:G:188:SER:C	2.30	0.74
8:G:259:GLU:HB3	8:G:270:ILE:HD12	1.69	0.74
9:X:142:HIS:O	9:X:143:ARG:HG3	1.87	0.74
9:Y:203:ILE:HG22	9:Y:212:VAL:CA	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:77:DA:C6	2:2:50:DG:C6	2.75	0.74
2:2:42:DT:H2"	2:2:43:DG:N7	2.03	0.74
3:A:198:LEU:CD2	3:A:208:GLU:HB3	2.17	0.74
3:A:641:LYS:O	3:A:643:GLN:NE2	2.20	0.74
3:A:1075:ARG:NH1	3:A:1078:GLN:OE1	2.21	0.74
4:B:347:GLN:CG	4:B:411:TYR:HE2	2.00	0.74
4:B:463:LYS:NZ	4:B:467:GLN:N	2.24	0.74
4:B:1011:LEU:N	4:B:1012:PRO:HD2	2.02	0.74
5:C:171:MET:SD	5:C:171:MET:C	2.70	0.74
5:D:171:MET:SD	5:D:171:MET:C	2.70	0.74
6:E:350:LEU:H	6:E:350:LEU:HD12	1.53	0.74
9:X:98:VAL:CG1	9:X:100:LEU:HD12	2.18	0.74
9:Y:214:LYS:HB3	9:Y:217:THR:H	1.50	0.74
1:1:72:DT:C7	9:X:187:ARG:NH1	2.51	0.74
3:A:81:VAL:HG23	3:A:82:GLU:N	2.01	0.74
3:A:286:PRO:O	3:A:288:THR:N	2.21	0.74
3:A:633:GLN:O	3:A:636:ARG:N	2.19	0.74
3:A:734:GLU:HB2	3:A:774:THR:HA	1.70	0.74
4:B:267:ASP:OD1	4:B:267:ASP:N	2.15	0.74
4:B:621:TYR:CD2	4:B:773:ARG:HA	2.22	0.74
4:B:631:TRP:CD1	4:B:633:PRO:CD	2.71	0.74
4:B:849:THR:HA	4:B:879:LYS:HZ2	1.53	0.74
4:B:1115:GLN:O	4:B:1116:LYS:C	2.31	0.74
6:E:546:GLN:OE1	6:E:546:GLN:N	2.17	0.74
8:G:124:LEU:C	8:G:126:ARG:H	1.95	0.74
8:G:156:ASP:O	8:G:160:GLN:HG2	1.87	0.74
8:G:371:LYS:O	8:G:375:LYS:HG3	1.88	0.74
2:2:50:DG:C2	2:2:51:DT:C2	2.76	0.74
3:A:76:GLU:O	3:A:78:LYS:HE3	1.88	0.74
3:A:296:ASP:OD1	3:A:297:ILE:N	2.21	0.74
3:A:310:ASP:O	3:A:311:ILE:HD13	1.86	0.74
3:A:634:GLU:C	3:A:636:ARG:N	2.39	0.74
4:B:250:HIS:HE1	4:B:252:LYS:CD	2.00	0.74
4:B:385:MET:O	4:B:404:VAL:HB	1.87	0.74
4:B:479:LEU:HG	4:B:973:ARG:HG3	1.70	0.74
4:B:523:VAL:CG2	4:B:866:VAL:HG23	2.17	0.74
4:B:573:ASN:O	4:B:590:GLU:N	2.19	0.74
4:B:937:SER:O	4:B:969:GLY:N	2.19	0.74
5:C:151:VAL:HG12	5:C:151:VAL:O	1.87	0.74
5:D:13:THR:CA	5:D:19:HIS:HA	2.18	0.74
9:X:57:VAL:HG12	9:X:91:HIS:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:82:ARG:HD3	4:B:924:ALA:H	1.52	0.73
4:B:386:ILE:HG21	4:B:397:PRO:HD2	1.70	0.73
4:B:643:ILE:HG21	4:B:676:GLN:HE21	1.53	0.73
6:E:76:TYR:HD2	6:E:81:HIS:CE1	2.06	0.73
6:E:184:VAL:HG12	6:E:185:GLU:H	1.53	0.73
8:G:258:THR:OG1	8:G:262:ILE:CG1	2.36	0.73
9:Y:197:LEU:CD1	9:Y:198:ARG:CG	2.59	0.73
3:A:612:GLY:H	3:A:616:THR:HG21	1.53	0.73
4:B:303:LEU:CD1	4:B:1137:ALA:HB2	2.17	0.73
4:B:539:ILE:HD12	4:B:764:ARG:HH22	1.53	0.73
4:B:721:GLU:O	4:B:723:ARG:N	2.21	0.73
5:D:62:SER:HG	5:D:63:HIS:CE1	2.03	0.73
6:E:368:LEU:HD23	6:E:369:LYS:O	1.87	0.73
8:G:185:GLN:HB2	8:G:186:GLU:OE2	1.88	0.73
9:X:28:PHE:N	9:X:98:VAL:HB	2.03	0.73
9:Y:78:LEU:HD21	9:Y:88:ARG:CD	2.18	0.73
1:1:115:DA:H4'	1:1:116:DC:OP1	1.86	0.73
3:A:734:GLU:CG	3:A:772:LYS:NZ	2.48	0.73
4:B:726:GLN:HG3	4:B:728:VAL:H	1.54	0.73
4:B:1125:VAL:O	4:B:1128:VAL:N	2.20	0.73
5:C:130:ILE:CB	5:C:136:LEU:HD11	2.18	0.73
5:D:19:HIS:HB2	5:D:200:THR:HG22	1.69	0.73
6:E:309:ALA:O	6:E:310:VAL:C	2.30	0.73
6:E:386:PRO:O	6:E:387:PHE:C	2.26	0.73
8:G:123:LYS:O	8:G:126:ARG:NH2	2.22	0.73
9:X:35:PHE:H	9:X:92:ALA:HB3	1.53	0.73
9:X:51:ALA:HB3	9:X:95:PHE:CD2	2.24	0.73
1:1:87:DA:N1	2:2:39:DT:C2	2.55	0.73
1:1:88:DA:C6	2:2:37:DT:N3	2.56	0.73
4:B:8:VAL:HG21	6:E:615:TYR:CZ	2.23	0.73
4:B:175:SER:OG	4:B:176:SER:N	1.99	0.73
4:B:286:LEU:CG	4:B:1142:GLU:HG3	2.17	0.73
1:1:61:DT:C2	1:1:62:DT:N3	2.56	0.73
1:1:94:DT:OP1	6:E:48:ARG:CD	2.30	0.73
2:2:57:DT:H2"	2:2:58:DA:N7	2.04	0.73
3:A:336:VAL:O	3:A:339:GLY:N	2.21	0.73
3:A:370:LEU:O	3:A:373:ALA:N	2.20	0.73
3:A:556:GLY:O	3:A:557:SER:C	2.27	0.73
3:A:577:GLY:O	3:A:579:GLU:N	2.22	0.73
4:B:88:VAL:HG22	4:B:369:ARG:HB3	1.69	0.73
4:B:536:GLU:O	4:B:837:SER:OG	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:710:PRO:O	4:B:712:GLU:N	2.22	0.73
4:B:1141:ILE:H	4:B:1141:ILE:HD12	1.52	0.73
5:C:59:ALA:HA	5:C:162:ASP:CG	2.13	0.73
5:D:51:THR:HG22	5:D:144:ARG:HA	1.71	0.73
9:X:75:PHE:CE2	9:X:100:LEU:CD2	2.61	0.73
1:1:78:DA:H4'	1:1:79:DA:OP2	1.84	0.73
1:1:80:DA:C5	2:2:46:DT:O4	2.41	0.73
3:A:263:ASP:HB2	3:A:265:LYS:HB3	1.69	0.73
3:A:301:VAL:O	3:A:304:LEU:HB3	1.89	0.73
3:A:460:GLU:CA	3:A:482:ALA:HA	2.19	0.73
3:A:1007:GLY:HA3	6:E:353:ARG:HE	1.53	0.73
4:B:385:MET:CG	4:B:406:GLN:O	2.37	0.73
4:B:613:LYS:O	4:B:617:ALA:N	2.21	0.73
4:B:646:LEU:H	4:B:662:LYS:CD	2.01	0.73
4:B:835:LEU:HD11	4:B:837:SER:HB2	1.69	0.73
4:B:878:SER:OG	4:B:880:GLU:O	2.05	0.73
5:D:92:SER:HB2	5:D:144:ARG:HB3	1.70	0.73
6:E:131:MET:HB3	6:E:136:VAL:HG23	1.69	0.73
8:G:290:ILE:N	8:G:296:SER:O	2.21	0.73
9:Y:28:PHE:HB3	9:Y:32:LYS:HD3	1.70	0.73
1:1:62:DT:OP2	1:1:62:DT:H2'	1.89	0.73
3:A:466:VAL:N	3:A:525:ASP:O	2.18	0.73
3:A:968:PHE:CE2	4:B:48:GLY:HA3	2.24	0.73
3:A:1043:ASP:O	3:A:1045:MET:N	2.22	0.73
4:B:230:LYS:NZ	4:B:231:THR:O	2.21	0.73
4:B:437:ASN:N	4:B:1067:GLN:O	2.22	0.73
4:B:631:TRP:CZ2	4:B:782:VAL:HG22	2.24	0.73
4:B:1028:ILE:HG21	4:B:1082:PRO:CB	2.19	0.73
5:C:106:THR:OG1	5:C:107:ILE:N	2.20	0.73
6:E:89:CYS:SG	6:E:90:GLY:N	2.62	0.73
6:E:230:VAL:O	6:E:233:ASN:N	2.21	0.73
6:E:451:GLY:C	6:E:452:ARG:HG3	2.13	0.73
9:X:43:ARG:NH1	9:X:107:GLN:HB3	2.02	0.73
9:X:47:LEU:HB3	9:X:69:LEU:HD23	1.69	0.73
9:X:53:LYS:HA	9:X:67:ALA:O	1.86	0.73
9:X:56:ARG:NH2	9:X:129:ARG:HH21	1.85	0.73
2:2:41:DC:H1'	2:2:42:DT:O4'	1.89	0.73
4:B:84:GLU:HB2	4:B:85:ILE:HG23	1.71	0.73
4:B:125:MET:SD	6:E:515:LEU:HD21	2.28	0.73
4:B:614:LYS:HZ1	4:B:622:GLU:H	1.37	0.73
5:D:143:GLU:OE1	5:D:143:GLU:N	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:28:ARG:HE	6:E:102:ARG:HD2	1.51	0.73
6:E:122:PRO:O	6:E:127:ILE:HG13	1.88	0.73
6:E:306:LEU:HD23	6:E:306:LEU:C	2.14	0.73
6:E:583:SER:CA	6:E:585:THR:H	2.01	0.73
8:G:118:GLU:O	8:G:121:SER:OG	2.06	0.73
2:2:61:DT:C7	9:Y:188:VAL:CG2	2.66	0.73
3:A:74:LEU:HD21	3:A:95:MET:SD	2.29	0.73
3:A:293:THR:N	3:A:296:ASP:OD2	2.18	0.73
3:A:333:GLN:OE1	3:A:334:ASN:N	2.22	0.73
3:A:577:GLY:H	3:A:915:LYS:HD2	1.53	0.73
3:A:941:ASP:OD1	3:A:942:GLU:OE2	2.06	0.73
3:A:993:ARG:HD2	3:A:1013:GLY:O	1.89	0.73
4:B:378:PHE:CD1	4:B:413:VAL:HG11	2.23	0.73
4:B:613:LYS:NZ	4:B:776:TYR:OH	2.21	0.73
4:B:1231:TRP:HA	6:E:11:TYR:CA	2.19	0.73
6:E:47:TYR:CB	8:G:231:LEU:CD2	2.59	0.73
6:E:152:ASN:HA	6:E:156:LEU:HB2	1.70	0.73
6:E:229:ARG:HA	6:E:232:ASP:OD2	1.88	0.73
6:E:385:GLN:O	6:E:388:VAL:HG12	1.88	0.73
8:G:214:ILE:O	8:G:215:ARG:C	2.29	0.73
9:X:47:LEU:HD12	9:X:100:LEU:CD2	2.19	0.73
9:X:52:VAL:HG13	9:X:98:VAL:HG22	1.70	0.73
1:1:60:DT:C6	1:1:61:DT:H73	2.23	0.73
1:1:88:DA:N6	2:2:37:DT:C4	2.57	0.73
1:1:107:DG:C2	1:1:108:DA:N1	2.57	0.73
2:2:9:DC:C4	2:2:10:DG:O6	2.42	0.73
2:2:59:DG:O5'	2:2:59:DG:H8	1.72	0.73
3:A:32:GLU:O	3:A:33:ILE:C	2.30	0.73
3:A:300:ALA:O	3:A:303:TYR:N	2.22	0.73
3:A:606:ILE:O	3:A:608:VAL:N	2.22	0.73
3:A:756:ILE:CG2	3:A:757:ILE:H	2.01	0.73
3:A:999:SER:OG	3:A:1000:LEU:N	2.16	0.73
4:B:553:VAL:HG23	4:B:561:ASN:H	1.54	0.73
4:B:1011:LEU:O	4:B:1012:PRO:C	2.31	0.73
4:B:1247:ALA:HA	4:B:1251:TYR:HB2	1.70	0.73
5:C:207:GLN:CD	5:C:207:GLN:N	2.41	0.73
6:E:226:LYS:O	6:E:229:ARG:N	2.21	0.73
8:G:162:ASN:C	8:G:163:LEU:HG	2.14	0.73
8:G:188:SER:O	8:G:189:LEU:C	2.29	0.73
8:G:287:GLU:HA	8:G:298:LEU:H	1.53	0.73
9:X:131:LEU:HD11	9:X:135:MET:CE	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:142:HIS:O	9:Y:148:ARG:NE	2.21	0.73
3:A:198:LEU:HD23	3:A:208:GLU:HB2	1.69	0.72
3:A:762:TRP:N	3:A:813:ARG:HH11	1.87	0.72
4:B:103:GLU:HB2	4:B:424:LEU:CD1	2.19	0.72
4:B:596:TYR:CD1	4:B:744:PHE:HB3	2.24	0.72
4:B:700:VAL:HG12	4:B:704:ASP:HB3	1.69	0.72
4:B:726:GLN:OE1	4:B:737:LEU:CD2	2.37	0.72
5:D:83:LYS:NZ	5:D:168:SER:HA	2.04	0.72
6:E:220:LYS:CD	6:E:223:LYS:CD	2.30	0.72
6:E:228:LEU:HB3	6:E:232:ASP:OD2	1.87	0.72
6:E:389:ILE:HG13	6:E:390:ASN:N	2.03	0.72
8:G:338:ARG:HG2	8:G:343:LEU:HD22	1.69	0.72
1:1:115:DA:C2	2:2:11:DT:C2	2.78	0.72
3:A:96:TYR:CE1	3:A:115:PHE:HB3	2.23	0.72
3:A:151:SER:HA	3:A:161:TYR:HA	1.72	0.72
3:A:274:ARG:O	3:A:277:LEU:N	2.22	0.72
3:A:616:THR:C	3:A:633:GLN:HE22	1.97	0.72
4:B:90:ARG:HA	4:B:372:HIS:CD2	2.24	0.72
4:B:260:ARG:NH1	4:B:261:ASN:OD1	2.22	0.72
4:B:628:THR:HA	4:B:743:GLU:OE2	1.88	0.72
5:C:67:THR:OG1	5:C:68:VAL:N	2.21	0.72
6:E:115:VAL:HG13	6:E:116:TRP:CD1	2.24	0.72
7:F:32:THR:O	7:F:33:VAL:C	2.29	0.72
8:G:81:SER:OG	8:G:181:GLN:NE2	2.22	0.72
9:X:28:PHE:HB2	9:X:94:ALA:HB1	1.72	0.72
9:X:38:GLY:O	9:X:40:PRO:HD3	1.89	0.72
9:Y:67:ALA:HB1	9:Y:75:PHE:CE1	2.24	0.72
1:1:115:DA:C2	2:2:11:DT:O2	2.39	0.72
2:2:57:DT:OP2	2:2:57:DT:H2'	1.90	0.72
3:A:79:TYR:HB3	3:A:83:GLU:CB	2.19	0.72
3:A:285:VAL:CG1	3:A:289:VAL:HG11	2.19	0.72
3:A:734:GLU:CG	3:A:772:LYS:HZ3	2.02	0.72
3:A:788:LEU:HD11	8:G:385:LEU:HB2	1.71	0.72
3:A:1011:GLN:OE1	3:A:1011:GLN:N	2.22	0.72
4:B:43:TYR:O	4:B:44:ALA:C	2.27	0.72
4:B:226:THR:HA	4:B:231:THR:HA	1.72	0.72
4:B:304:ALA:HA	6:E:500:PRO:HA	1.71	0.72
4:B:330:LEU:HD12	4:B:1011:LEU:HD12	1.71	0.72
4:B:416:GLN:O	4:B:418:VAL:N	2.22	0.72
4:B:519:HIS:HB2	4:B:805:GLN:OE1	1.89	0.72
4:B:711:GLY:HA2	4:B:718:VAL:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:725:ILE:HA	4:B:737:LEU:O	1.89	0.72
4:B:773:ARG:HB3	4:B:792:ARG:HB3	1.71	0.72
4:B:785:VAL:HB	4:B:786:GLU:OE1	1.89	0.72
4:B:1089:ASN:CB	4:B:1091:HIS:NE2	2.52	0.72
5:C:83:LYS:HG2	5:C:166:ILE:HD11	1.70	0.72
7:F:37:ASN:CG	7:F:38:ARG:N	2.46	0.72
8:G:352:GLU:OE1	8:G:352:GLU:N	2.20	0.72
1:1:78:DA:H8	1:1:78:DA:OP2	1.72	0.72
1:1:106:DG:C4	1:1:107:DG:C6	2.78	0.72
3:A:185:VAL:HG11	3:A:200:LYS:CE	2.19	0.72
3:A:222:THR:HG23	3:A:225:LYS:N	2.04	0.72
3:A:372:ALA:O	3:A:375:LYS:N	2.21	0.72
3:A:425:SER:HB2	3:A:484:GLU:OE1	1.89	0.72
3:A:667:GLN:HG2	3:A:668:VAL:N	2.00	0.72
3:A:1075:ARG:O	3:A:1076:GLU:C	2.28	0.72
4:B:28:ARG:O	4:B:31:VAL:HG12	1.88	0.72
4:B:357:ILE:CG2	4:B:387:LEU:HD23	2.19	0.72
4:B:517:THR:C	4:B:518:ILE:HG13	2.14	0.72
4:B:726:GLN:OE1	4:B:737:LEU:HD22	1.89	0.72
4:B:760:GLN:NE2	4:B:806:GLU:HB2	2.03	0.72
5:C:62:SER:HG	5:C:63:HIS:CE1	2.02	0.72
5:D:68:VAL:HG23	5:D:69:PRO:HD2	1.70	0.72
9:Y:137:ILE:HA	9:Y:140:LEU:HG	1.72	0.72
2:2:50:DG:H2"	2:2:51:DT:OP2	1.90	0.72
3:A:232:GLU:HA	3:A:235:LEU:HD23	1.70	0.72
3:A:334:ASN:O	3:A:335:GLN:C	2.29	0.72
4:B:32:MET:O	4:B:33:ALA:C	2.33	0.72
4:B:775:PRO:HD3	4:B:790:LEU:HA	1.69	0.72
4:B:813:ALA:HB1	4:B:834:ILE:HD12	1.69	0.72
4:B:1077:VAL:HG21	4:B:1081:GLN:OE1	1.88	0.72
5:D:114:LEU:HD12	5:D:115:PRO:O	1.90	0.72
5:D:171:MET:HE1	5:D:201:ASN:HB3	1.71	0.72
6:E:134:ARG:H	6:E:137:GLU:HB3	1.53	0.72
6:E:401:ILE:HG13	6:E:402:LYS:N	2.04	0.72
6:E:595:GLU:HG2	6:E:596:ASP:H	1.55	0.72
6:E:615:TYR:O	6:E:618:ALA:N	2.23	0.72
9:X:118:LEU:HA	9:X:121:LEU:HD12	1.72	0.72
9:Y:78:LEU:HD11	9:Y:88:ARG:NE	2.04	0.72
3:A:653:GLN:HG2	3:A:671:ASP:O	1.88	0.72
3:A:654:LYS:HE3	5:C:74:ASP:HB3	1.70	0.72
4:B:66:LEU:HD11	4:B:143:MET:HE1	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:93:LYS:HE2	4:B:375:ASP:HB3	1.68	0.72
4:B:359:LEU:HD23	4:B:384:ILE:O	1.89	0.72
4:B:419:LYS:O	4:B:421:GLY:N	2.23	0.72
4:B:457:GLU:OE2	4:B:481:TRP:CZ2	2.42	0.72
4:B:464:THR:CB	4:B:469:ASN:HA	2.20	0.72
4:B:517:THR:O	4:B:518:ILE:CG1	2.38	0.72
4:B:525:LEU:N	4:B:861:ASP:OD1	2.22	0.72
4:B:700:VAL:O	4:B:703:ARG:N	2.22	0.72
5:C:101:VAL:HG12	5:C:102:ASN:N	2.02	0.72
5:C:101:VAL:HG12	5:C:136:LEU:HD12	1.71	0.72
5:C:227:ILE:CD1	5:D:5:GLN:HA	2.19	0.72
6:E:402:LYS:CD	8:G:390:ARG:HH21	1.92	0.72
6:E:580:GLU:H	6:E:583:SER:HB3	1.54	0.72
8:G:334:ARG:HA	8:G:337:LEU:HD22	1.71	0.72
9:Y:145:MET:HE1	9:Y:192:ARG:HG3	1.70	0.72
1:1:87:DA:C6	2:2:38:DT:O4	2.42	0.72
3:A:96:TYR:CE2	3:A:115:PHE:CD1	2.77	0.72
3:A:174:LYS:HE2	3:A:189:LYS:H	1.54	0.72
3:A:343:LEU:HD23	3:A:343:LEU:C	2.14	0.72
3:A:609:ARG:HB2	3:A:635:ILE:O	1.89	0.72
4:B:352:LYS:CD	4:B:358:LYS:HZ1	1.99	0.72
4:B:528:ALA:O	4:B:535:ARG:NE	2.23	0.72
4:B:541:THR:HG21	4:B:764:ARG:CZ	2.20	0.72
4:B:544:VAL:HG13	4:B:757:SER:HA	1.71	0.72
4:B:854:GLN:H	4:B:875:GLN:N	1.87	0.72
4:B:901:ARG:O	4:B:905:MET:N	2.23	0.72
4:B:919:GLY:HA2	4:B:940:ILE:O	1.90	0.72
5:C:40:LEU:O	5:C:41:ARG:C	2.29	0.72
5:D:148:TYR:HH	5:D:171:MET:HA	1.54	0.72
5:D:149:ARG:NH1	5:D:149:ARG:O	2.23	0.72
6:E:276:TYR:O	6:E:279:VAL:N	2.22	0.72
7:F:31:ILE:O	7:F:34:GLN:HG2	1.90	0.72
9:Y:43:ARG:NH1	9:Y:44:VAL:HG23	2.03	0.72
3:A:222:THR:N	3:A:225:LYS:HB2	2.04	0.72
3:A:239:TYR:CG	3:A:248:PRO:HB3	2.25	0.72
3:A:307:LEU:HA	3:A:311:ILE:H	1.55	0.72
3:A:545:LEU:HB3	3:A:918:PRO:HB3	1.72	0.72
4:B:630:LEU:HD13	4:B:741:VAL:HG11	1.72	0.72
4:B:764:ARG:HG3	4:B:807:HIS:HD2	1.53	0.72
4:B:921:LEU:HA	4:B:938:GLY:C	2.14	0.72
5:C:13:THR:HG22	5:C:206:PRO:CD	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:118:VAL:HG11	5:D:142:ILE:CG1	2.20	0.72
5:D:120:VAL:HG12	5:D:121:ILE:C	2.15	0.72
6:E:268:ALA:HB1	8:G:286:LEU:HD13	1.71	0.72
9:X:78:LEU:HD21	9:X:88:ARG:CD	2.20	0.72
1:1:64:DT:H4'	1:1:65:DA:H5'	1.72	0.72
3:A:236:MET:HA	3:A:239:TYR:HB2	1.72	0.72
3:A:334:ASN:O	3:A:337:ARG:N	2.23	0.72
3:A:619:GLY:O	3:A:633:GLN:NE2	2.22	0.72
3:A:936:LEU:O	3:A:937:GLN:C	2.31	0.72
4:B:8:VAL:H	6:E:521:THR:HG21	1.54	0.72
4:B:198:ARG:NH2	6:E:346:ARG:CZ	2.53	0.72
4:B:725:ILE:HD11	4:B:736:LEU:HB3	1.72	0.72
5:C:171:MET:HE1	5:C:201:ASN:HB3	1.71	0.72
5:D:160:SER:O	5:D:161:LEU:HG	1.89	0.72
8:G:131:SER:C	8:G:133:TRP:N	2.45	0.72
8:G:178:LEU:HG	8:G:222:ILE:CG2	2.20	0.72
9:Y:56:ARG:HA	9:Y:90:TYR:CB	2.20	0.72
1:1:115:DA:H1'	1:1:116:DC:C2	2.25	0.72
2:2:44:DA:H1'	2:2:45:DA:H5'	1.69	0.72
3:A:471:VAL:HG23	3:A:473:PHE:H	1.54	0.72
3:A:558:ASN:O	3:A:559:MET:C	2.29	0.72
4:B:522:VAL:HB	4:B:862:GLY:HA2	1.72	0.72
4:B:539:ILE:HG22	4:B:865:ILE:HB	1.72	0.72
4:B:621:TYR:CE2	4:B:774:LEU:O	2.43	0.72
4:B:649:GLU:HG3	4:B:650:ASP:O	1.90	0.72
4:B:726:GLN:HB2	4:B:737:LEU:CB	2.20	0.72
5:C:46:SER:OG	5:C:47:ASN:N	2.20	0.72
6:E:202:LEU:HG	6:E:235:ILE:CG2	2.19	0.72
8:G:110:LEU:CD1	8:G:152:ARG:CB	2.66	0.72
8:G:258:THR:O	8:G:262:ILE:HG12	1.89	0.72
3:A:66:HIS:O	3:A:67:PHE:CD1	2.43	0.71
3:A:609:ARG:HA	3:A:635:ILE:CD1	2.19	0.71
3:A:734:GLU:N	3:A:734:GLU:OE1	2.22	0.71
3:A:933:HIS:O	3:A:934:GLY:C	2.29	0.71
3:A:957:ILE:HG22	3:A:958:MET:H	1.54	0.71
3:A:1038:LEU:HD12	6:E:352:LYS:NZ	2.05	0.71
4:B:74:ARG:O	4:B:78:VAL:HG23	1.90	0.71
4:B:303:LEU:CD1	6:E:502:THR:HA	2.09	0.71
4:B:443:LYS:H	4:B:997:LEU:N	1.88	0.71
5:C:145:GLY:HA3	5:C:149:ARG:HH12	1.55	0.71
5:C:217:LEU:C	5:C:219:ASP:N	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:28:LEU:HD22	5:D:32:GLN:HB3	1.71	0.71
6:E:276:TYR:O	6:E:277:ARG:C	2.29	0.71
6:E:409:SER:OG	6:E:410:ARG:CZ	2.38	0.71
8:G:242:ILE:HG23	8:G:266:MET:HE3	1.66	0.71
8:G:290:ILE:HG13	8:G:291:GLY:H	1.55	0.71
3:A:606:ILE:N	3:A:609:ARG:HE	1.86	0.71
3:A:1066:THR:OG1	3:A:1066:THR:O	2.05	0.71
3:A:1077:LEU:O	3:A:1079:SER:N	2.23	0.71
4:B:28:ARG:O	4:B:29:THR:C	2.25	0.71
4:B:646:LEU:O	4:B:662:LYS:HE2	1.90	0.71
4:B:653:TYR:HH	4:B:656:ALA:HB2	1.55	0.71
4:B:739:ARG:HH12	4:B:781:ARG:CZ	2.01	0.71
4:B:1114:LEU:O	4:B:1117:VAL:HG12	1.90	0.71
5:C:13:THR:HG21	5:C:206:PRO:HG2	1.72	0.71
5:C:86:ILE:C	5:C:121:ILE:HG12	2.15	0.71
6:E:76:TYR:CD2	6:E:81:HIS:CG	2.77	0.71
9:X:134:GLU:HA	9:X:137:ILE:HD12	1.71	0.71
9:X:145:MET:HA	9:X:183:ILE:HD12	1.72	0.71
9:X:177:GLN:HA	9:X:180:ALA:H	1.53	0.71
3:A:251:LEU:C	3:A:255:GLN:OE1	2.33	0.71
3:A:272:VAL:O	3:A:275:TYR:N	2.23	0.71
3:A:709:VAL:HG21	3:A:845:LYS:HB3	1.72	0.71
4:B:29:THR:O	4:B:30:ALA:C	2.31	0.71
4:B:842:ARG:HD2	4:B:845:ALA:CB	2.20	0.71
4:B:1042:ASP:O	4:B:1050:LYS:HE3	1.91	0.71
5:C:105:THR:OG1	5:C:106:THR:N	2.17	0.71
5:D:150:THR:HA	5:D:167:ASP:HB2	1.71	0.71
6:E:404:ALA:O	6:E:405:LYS:C	2.30	0.71
6:E:407:LEU:HD11	6:E:412:ASP:CB	2.20	0.71
8:G:88:GLU:O	8:G:91:ARG:HG2	1.90	0.71
8:G:149:HIS:HE1	8:G:153:ARG:HD3	1.55	0.71
9:X:154:LEU:CA	9:X:157:CYS:SG	2.78	0.71
9:Y:54:LEU:HB3	9:Y:67:ALA:CB	2.17	0.71
9:Y:78:LEU:HD11	9:Y:88:ARG:HH11	1.51	0.71
1:1:85:DG:C1'	1:1:86:DG:H5'	2.19	0.71
3:A:164:SER:O	3:A:165:LEU:HD22	1.91	0.71
3:A:198:LEU:HD22	3:A:301:VAL:HG21	1.71	0.71
4:B:89:GLU:HG2	4:B:371:ARG:HG3	1.73	0.71
4:B:1090:PRO:CA	4:B:1093:ILE:HG12	2.20	0.71
6:E:117:TYR:O	6:E:125:ILE:HG12	1.90	0.71
8:G:186:GLU:O	8:G:187:GLY:C	2.32	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:179:ILE:O	9:X:182:ALA:N	2.22	0.71
1:1:100:DA:N3	8:G:204:TYR:CE2	2.59	0.71
3:A:618:SER:HB2	3:A:621:SER:OG	1.90	0.71
4:B:250:HIS:NE2	4:B:255:GLU:C	2.45	0.71
4:B:562:TYR:N	4:B:574:LEU:HD21	2.03	0.71
4:B:757:SER:HB3	4:B:768:MET:CG	2.16	0.71
4:B:786:GLU:HG3	4:B:788:VAL:HG22	1.71	0.71
4:B:908:LEU:CD2	4:B:966:ILE:HG21	2.19	0.71
4:B:1032:ARG:HG3	4:B:1078:PRO:CD	2.19	0.71
4:B:1079:ALA:HA	4:B:1081:GLN:O	1.89	0.71
5:C:97:GLY:HA3	5:C:114:LEU:CA	2.20	0.71
5:C:196:LEU:HD23	5:C:197:GLU:N	2.06	0.71
6:E:94:THR:CG2	6:E:98:VAL:HG21	2.20	0.71
9:X:68:LEU:O	9:X:70:ARG:NH1	2.24	0.71
3:A:115:PHE:C	3:A:115:PHE:CD2	2.68	0.71
3:A:141:ILE:HG23	3:A:141:ILE:O	1.89	0.71
3:A:401:ARG:HG2	3:A:402:LEU:N	2.03	0.71
3:A:503:ILE:HG21	3:A:508:VAL:HG21	1.73	0.71
3:A:552:ARG:NH2	3:A:892:ARG:HG2	2.03	0.71
3:A:598:VAL:HG13	3:A:660:GLY:N	2.05	0.71
4:B:164:ARG:O	4:B:166:GLY:N	2.24	0.71
4:B:438:THR:HA	4:B:1001:ARG:O	1.90	0.71
4:B:516:THR:HA	4:B:870:VAL:HA	1.72	0.71
4:B:621:TYR:HD2	4:B:774:LEU:H	1.30	0.71
4:B:1140:HIS:O	4:B:1141:ILE:C	2.29	0.71
4:B:1239:VAL:O	4:B:1241:ILE:N	2.23	0.71
5:C:83:LYS:NZ	5:C:168:SER:HA	2.04	0.71
5:C:105:THR:HG23	5:C:106:THR:O	1.91	0.71
6:E:265:GLY:CA	8:G:278:LYS:CE	2.67	0.71
6:E:305:MET:O	6:E:306:LEU:C	2.28	0.71
8:G:90:GLY:O	8:G:92:ILE:N	2.24	0.71
9:X:162:VAL:HG22	9:X:170:ILE:C	2.16	0.71
9:Y:68:LEU:O	9:Y:70:ARG:NH1	2.24	0.71
1:1:80:DA:C2'	1:1:81:DT:H5'	2.20	0.71
2:2:44:DA:H2"	2:2:45:DA:OP2	1.89	0.71
4:B:30:ALA:O	4:B:33:ALA:N	2.23	0.71
4:B:59:PRO:HB3	4:B:109:VAL:HA	1.73	0.71
4:B:643:ILE:HG13	4:B:643:ILE:O	1.90	0.71
4:B:1231:TRP:HE1	6:E:11:TYR:HD2	1.28	0.71
5:C:76:LEU:HD12	5:C:76:LEU:H	1.54	0.71
5:C:97:GLY:CA	5:C:114:LEU:CA	2.67	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:130:ILE:HD12	5:C:136:LEU:CG	2.12	0.71
5:D:130:ILE:HD11	5:D:134:GLY:HA3	1.73	0.71
5:D:154:GLY:O	5:D:155:ARG:HG3	1.89	0.71
1:1:109:DG:N3	1:1:109:DG:H5'	2.05	0.71
3:A:66:HIS:CE1	3:A:100:ARG:HD2	2.26	0.71
3:A:110:LYS:HZ1	3:A:360:THR:CG2	2.03	0.71
3:A:236:MET:HB2	3:A:240:ARG:HH11	1.54	0.71
3:A:733:PRO:HB2	3:A:735:GLU:OE2	1.90	0.71
3:A:901:CYS:O	3:A:902:LEU:C	2.31	0.71
3:A:1032:TYR:O	3:A:1033:THR:C	2.31	0.71
4:B:39:LEU:O	4:B:42:ARG:N	2.22	0.71
4:B:136:GLN:O	4:B:140:LEU:HG	1.90	0.71
4:B:367:THR:HA	4:B:370:THR:OG1	1.91	0.71
4:B:542:ALA:HB3	4:B:832:LEU:C	2.16	0.71
4:B:909:ASN:HA	4:B:962:TYR:O	1.91	0.71
4:B:1215:GLU:HB3	4:B:1218:ARG:HB3	1.72	0.71
5:C:205:SER:OG	5:C:207:GLN:NE2	2.24	0.71
5:D:89:SER:OG	5:D:90:TYR:N	2.21	0.71
6:E:419:LEU:O	6:E:422:VAL:HG12	1.89	0.71
6:E:511:GLN:O	6:E:513:MET:N	2.23	0.71
8:G:103:LEU:O	8:G:104:ALA:C	2.33	0.71
1:1:99:DT:H1'	8:G:212:TRP:CZ3	2.26	0.71
3:A:265:LYS:HG2	3:A:266:ARG:NH1	2.05	0.71
3:A:364:LEU:HD23	3:A:364:LEU:N	2.03	0.71
3:A:633:GLN:C	3:A:635:ILE:H	1.98	0.71
4:B:688:PRO:CD	4:B:739:ARG:CD	2.63	0.71
4:B:1028:ILE:HG21	4:B:1082:PRO:HB2	1.71	0.71
5:C:63:HIS:HA	5:C:164:LEU:CD2	2.09	0.71
5:D:210:LEU:O	5:D:211:SER:C	2.31	0.71
6:E:76:TYR:CD2	6:E:81:HIS:CE1	2.77	0.71
6:E:162:LEU:HA	6:E:166:GLN:HG2	1.73	0.71
6:E:226:LYS:O	6:E:228:LEU:N	2.23	0.71
8:G:342:GLY:HA2	8:G:346:GLY:O	1.91	0.71
9:X:42:GLU:CB	9:X:78:LEU:HB2	1.91	0.71
9:X:47:LEU:HD13	9:X:52:VAL:CG2	2.19	0.71
9:Y:121:LEU:HA	9:Y:124:ARG:NH1	2.06	0.71
1:1:58:DA:H1'	1:1:59:DT:C4	2.24	0.71
1:1:100:DA:O5'	1:1:100:DA:C8	2.43	0.71
2:2:50:DG:OP2	9:X:190:VAL:HG22	1.91	0.71
3:A:122:MET:HG2	3:A:123:THR:N	2.05	0.71
3:A:382:GLN:OE1	3:A:382:GLN:N	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:460:GLU:HA	3:A:482:ALA:CA	2.20	0.71
3:A:597:ASP:OD2	3:A:662:ARG:NH1	2.24	0.71
3:A:616:THR:HG1	3:A:633:GLN:H	1.37	0.71
3:A:729:THR:N	3:A:732:GLY:O	2.23	0.71
4:B:100:GLY:N	4:B:421:GLY:O	2.22	0.71
4:B:208:ILE:O	4:B:210:ARG:CD	2.39	0.71
4:B:677:LYS:HD2	4:B:682:ARG:HD2	1.73	0.71
4:B:1028:ILE:HG22	4:B:1082:PRO:C	2.16	0.71
4:B:1119:THR:O	4:B:1120:PHE:C	2.32	0.71
5:C:13:THR:HG21	5:C:206:PRO:CG	2.21	0.71
5:C:194:LEU:C	5:C:194:LEU:HD23	2.16	0.71
5:D:19:HIS:CB	5:D:206:PRO:HD3	2.13	0.71
6:E:265:GLY:HA3	8:G:278:LYS:CE	2.19	0.71
6:E:296:GLU:O	6:E:297:ILE:C	2.33	0.71
6:E:619:ILE:O	6:E:620:GLN:C	2.29	0.71
1:1:76:DC:H1'	1:1:77:DA:O5'	1.90	0.70
1:1:111:DT:OP2	1:1:111:DT:H6	1.72	0.70
3:A:797:ARG:HH21	3:A:798:ASP:CG	1.99	0.70
3:A:1055:ILE:CG1	3:A:1056:VAL:N	2.53	0.70
4:B:34:ASP:O	4:B:36:LEU:N	2.24	0.70
4:B:107:ASP:HB3	4:B:354:ASP:HB3	1.71	0.70
4:B:546:LEU:C	4:B:829:ARG:HA	2.16	0.70
4:B:548:GLN:HA	4:B:827:VAL:HG11	1.73	0.70
4:B:645:LEU:HB2	4:B:662:LYS:HA	1.72	0.70
5:C:63:HIS:HD2	5:C:65:PHE:H	1.36	0.70
8:G:316:ASN:HA	8:G:319:ARG:CD	2.21	0.70
9:X:148:ARG:NH2	9:Y:143:ARG:HE	1.87	0.70
9:X:203:ILE:HA	9:X:211:THR:O	1.91	0.70
9:Y:161:GLY:CA	9:Y:170:ILE:HD13	2.20	0.70
2:2:56:DG:H2"	2:2:57:DT:OP2	1.90	0.70
3:A:298:LEU:HD12	3:A:299:ALA:N	2.06	0.70
3:A:883:VAL:HG13	3:A:883:VAL:O	1.90	0.70
3:A:1036:GLU:CD	3:A:1037:LEU:N	2.49	0.70
3:A:1052:LEU:HD23	3:A:1053:ASN:N	2.06	0.70
4:B:93:LYS:HZ2	4:B:415:GLY:HA3	1.55	0.70
4:B:99:ASN:CB	4:B:423:LEU:HB2	2.20	0.70
4:B:522:VAL:HA	4:B:863:ASP:N	2.06	0.70
5:C:108:THR:HG23	5:C:124:THR:HA	1.73	0.70
5:C:120:VAL:HG12	5:C:121:ILE:C	2.15	0.70
5:D:9:VAL:HG22	5:D:22:LYS:HB2	1.73	0.70
5:D:85:VAL:HA	5:D:125:GLN:OE1	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:388:VAL:O	6:E:389:ILE:C	2.32	0.70
1:1:86:DG:H1'	1:1:87:DA:H5'	1.73	0.70
3:A:298:LEU:HA	3:A:301:VAL:CG2	2.21	0.70
3:A:488:LEU:N	3:A:512:TYR:CE1	2.59	0.70
3:A:599:VAL:N	3:A:608:VAL:HG12	2.06	0.70
4:B:653:TYR:CD1	4:B:671:VAL:HB	2.27	0.70
4:B:678:ASN:ND2	4:B:682:ARG:HG2	2.05	0.70
4:B:720:THR:OG1	4:B:723:ARG:NH2	2.24	0.70
5:D:83:LYS:HG2	5:D:166:ILE:HD11	1.71	0.70
5:D:118:VAL:CB	5:D:142:ILE:HG13	2.21	0.70
6:E:254:PRO:HA	6:E:257:ARG:NH1	2.05	0.70
8:G:338:ARG:CD	8:G:343:LEU:HB3	2.21	0.70
9:X:101:LEU:HD12	9:X:102:SER:H	1.56	0.70
9:Y:101:LEU:HD12	9:Y:102:SER:H	1.56	0.70
9:Y:162:VAL:HG22	9:Y:170:ILE:C	2.16	0.70
1:1:76:DC:N4	2:2:50:DG:C6	2.57	0.70
1:1:87:DA:C2	2:2:39:DT:C2	2.79	0.70
1:1:107:DG:H8	1:1:107:DG:OP2	1.73	0.70
3:A:80:SER:O	3:A:83:GLU:HB2	1.89	0.70
3:A:932:VAL:HG13	3:A:933:HIS:N	2.04	0.70
4:B:365:THR:OG1	4:B:414:ASP:OD2	2.08	0.70
4:B:419:LYS:NZ	4:B:420:LYS:HE2	2.05	0.70
4:B:522:VAL:HG13	4:B:540:ILE:O	1.92	0.70
4:B:1125:VAL:O	4:B:1126:GLN:C	2.28	0.70
4:B:1154:ILE:HD12	4:B:1173:VAL:HG21	1.73	0.70
5:C:159:THR:HG23	5:C:163:PHE:CE2	2.24	0.70
5:C:209:ALA:O	5:C:210:LEU:C	2.32	0.70
5:D:86:ILE:C	5:D:121:ILE:HG12	2.15	0.70
6:E:418:VAL:O	6:E:419:LEU:C	2.32	0.70
8:G:204:TYR:HD2	8:G:208:THR:OG1	1.74	0.70
9:X:98:VAL:CG1	9:X:100:LEU:CG	2.69	0.70
9:Y:35:PHE:CZ	9:Y:88:ARG:HB3	2.26	0.70
3:A:32:GLU:C	3:A:32:GLU:CD	2.57	0.70
3:A:185:VAL:CG2	3:A:197:VAL:O	2.40	0.70
3:A:224:GLU:CB	3:A:226:GLU:OE2	2.34	0.70
4:B:2:ILE:HG23	4:B:2:ILE:O	1.89	0.70
4:B:714:LEU:N	4:B:717:GLN:O	2.24	0.70
5:D:75:VAL:HA	5:D:78:ILE:HD12	1.73	0.70
5:D:196:LEU:HD23	5:D:197:GLU:N	2.06	0.70
8:G:120:LEU:HB3	8:G:128:PRO:CG	2.18	0.70
8:G:196:GLU:C	8:G:196:GLU:CD	2.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:189:THR:HA	9:X:193:LEU:HD13	1.72	0.70
1:1:86:DG:N1	2:2:40:DC:C2	2.47	0.70
3:A:192:LYS:HG2	3:A:193:LEU:N	2.06	0.70
3:A:605:GLU:N	3:A:605:GLU:OE1	2.24	0.70
4:B:171:GLU:H	4:B:171:GLU:CD	1.92	0.70
4:B:631:TRP:HE1	4:B:633:PRO:CA	2.04	0.70
4:B:678:ASN:N	4:B:678:ASN:OD1	2.24	0.70
4:B:714:LEU:HB3	4:B:717:GLN:OE1	1.91	0.70
4:B:908:LEU:O	4:B:964:VAL:N	2.18	0.70
4:B:1011:LEU:HD12	4:B:1011:LEU:H	1.55	0.70
4:B:1019:GLU:HG2	4:B:1197:ILE:HB	1.72	0.70
4:B:1141:ILE:O	4:B:1142:GLU:C	2.27	0.70
6:E:224:LEU:HD22	6:E:224:LEU:N	2.07	0.70
9:X:194:LEU:HA	9:X:197:LEU:HD12	1.74	0.70
1:1:106:DG:C5	1:1:107:DG:O6	2.44	0.70
3:A:535:VAL:HG21	3:A:540:SER:CB	2.21	0.70
3:A:592:SER:OG	3:A:667:GLN:N	2.25	0.70
3:A:613:GLN:C	3:A:615:PRO:HD2	2.16	0.70
3:A:707:ARG:CG	3:A:710:GLN:OE1	2.38	0.70
3:A:957:ILE:HG22	3:A:958:MET:N	2.05	0.70
4:B:170:THR:HG1	4:B:171:GLU:H	1.38	0.70
4:B:174:ILE:O	4:B:177:TYR:N	2.25	0.70
4:B:203:VAL:CG2	4:B:1197:ILE:O	2.40	0.70
4:B:538:GLU:CA	4:B:836:GLU:O	2.30	0.70
4:B:604:LEU:HB2	4:B:631:TRP:HZ3	1.54	0.70
4:B:692:LEU:HB2	4:B:736:LEU:O	1.92	0.70
4:B:1027:CYS:HG	4:B:1084:SER:CB	1.97	0.70
4:B:1159:ASP:C	4:B:1180:MET:SD	2.74	0.70
5:D:181:GLU:OE2	5:D:193:ARG:CZ	2.40	0.70
6:E:347:GLN:HG3	6:E:348:ASN:N	2.07	0.70
9:X:57:VAL:CG1	9:X:91:HIS:H	2.05	0.70
9:Y:47:LEU:N	9:Y:73:SER:O	2.25	0.70
3:A:196:GLN:OE1	3:A:229:PHE:CE2	2.45	0.70
3:A:325:VAL:HG13	3:A:325:VAL:O	1.92	0.70
3:A:599:VAL:HG22	3:A:608:VAL:HA	1.74	0.70
4:B:171:GLU:O	4:B:172:TYR:C	2.33	0.70
4:B:463:LYS:HZ2	4:B:467:GLN:H	1.35	0.70
4:B:621:TYR:HB2	4:B:773:ARG:HA	1.73	0.70
4:B:714:LEU:HD12	4:B:736:LEU:CD2	2.21	0.70
4:B:745:ALA:O	4:B:746:VAL:HG13	1.91	0.70
4:B:896:ARG:HG3	4:B:989:GLN:HE22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:75:VAL:HA	5:C:78:ILE:HD12	1.73	0.70
5:C:101:VAL:HG12	5:C:102:ASN:H	1.57	0.70
5:D:194:LEU:C	5:D:194:LEU:HD23	2.16	0.70
8:G:120:LEU:HD22	8:G:136:ALA:HB2	1.73	0.70
9:X:35:PHE:N	9:X:92:ALA:HB3	2.06	0.70
9:X:161:GLY:CA	9:X:170:ILE:HD13	2.20	0.70
9:Y:28:PHE:HB2	9:Y:94:ALA:HB2	1.74	0.70
9:Y:34:ILE:CG2	9:Y:45:TYR:CE1	2.75	0.70
1:1:121:DG:C5	1:1:122:DC:C4	2.79	0.70
2:2:47:DT:H6	2:2:47:DT:C5'	2.05	0.70
3:A:37:SER:O	3:A:40:TRP:HB3	1.91	0.70
3:A:110:LYS:HZ1	3:A:360:THR:HG22	1.55	0.70
3:A:188:ASP:OD1	3:A:188:ASP:O	2.10	0.70
3:A:268:ASP:OD1	3:A:270:GLY:N	2.25	0.70
3:A:368:LYS:O	3:A:371:VAL:N	2.23	0.70
3:A:505:GLY:O	3:A:508:VAL:HG23	1.91	0.70
3:A:602:ASP:CG	3:A:603:ALA:H	2.00	0.70
3:A:631:LYS:O	3:A:633:GLN:NE2	2.24	0.70
4:B:82:ARG:HD3	4:B:924:ALA:N	2.06	0.70
4:B:497:VAL:HG22	4:B:510:LEU:C	2.17	0.70
4:B:589:ALA:HB3	4:B:795:LEU:HB2	1.73	0.70
4:B:923:VAL:O	4:B:926:THR:HG23	1.92	0.70
5:C:77:GLU:CA	5:C:80:MET:HG2	2.20	0.70
6:E:306:LEU:O	6:E:307:GLN:C	2.32	0.70
8:G:270:ILE:HA	8:G:273:LEU:HD12	1.72	0.70
9:X:176:HIS:O	9:X:189:THR:HG21	1.92	0.70
9:Y:43:ARG:CG	9:Y:105:ILE:HG13	2.21	0.70
1:1:109:DG:N3	1:1:110:DC:N4	2.39	0.70
2:2:51:DT:H2"	2:2:52:DA:C8	2.27	0.70
2:2:58:DA:C1'	2:2:59:DG:C8	2.74	0.70
3:A:350:ARG:HH21	3:A:364:LEU:CA	2.05	0.70
3:A:912:VAL:HG22	3:A:914:PHE:HE1	1.57	0.70
4:B:453:VAL:HG22	4:B:482:ILE:CD1	2.21	0.70
4:B:526:PRO:HB2	4:B:535:ARG:HB3	1.73	0.70
4:B:530:PRO:HG3	4:B:536:GLU:OE2	1.92	0.70
4:B:688:PRO:CD	4:B:739:ARG:HD2	2.20	0.70
5:C:151:VAL:HG13	5:C:156:GLU:CD	2.16	0.70
5:D:35:THR:CA	5:D:38:ASN:HB3	2.22	0.70
5:D:63:HIS:HD2	5:D:65:PHE:H	1.36	0.70
6:E:229:ARG:HG3	6:E:230:VAL:N	2.05	0.70
6:E:374:GLY:HA3	6:E:455:GLN:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:388:VAL:O	6:E:391:ARG:N	2.24	0.70
6:E:594:ARG:NH1	6:E:603:SER:CB	2.51	0.70
8:G:285:SER:O	8:G:285:SER:OG	2.04	0.70
8:G:287:GLU:HB2	8:G:297:ARG:HB3	1.73	0.70
2:2:30:DG:N3	2:2:31:DA:H1'	2.06	0.69
3:A:596:GLY:C	3:A:662:ARG:NH2	2.50	0.69
3:A:968:PHE:HE1	3:A:970:ARG:HB3	1.56	0.69
3:A:1070:PHE:O	3:A:1071:LYS:C	2.31	0.69
4:B:16:LEU:O	4:B:17:ILE:C	2.34	0.69
4:B:764:ARG:HB2	4:B:807:HIS:HB2	1.74	0.69
4:B:1088:SER:CB	4:B:1093:ILE:CG2	2.70	0.69
4:B:1117:VAL:O	4:B:1118:GLN:C	2.30	0.69
5:C:10:GLU:O	5:C:21:SER:HA	1.92	0.69
5:C:199:TRP:N	5:C:199:TRP:CD1	2.57	0.69
5:D:76:LEU:HD12	5:D:76:LEU:H	1.54	0.69
6:E:71:CYS:HA	6:E:91:VAL:CG1	2.21	0.69
6:E:280:ILE:O	6:E:281:ASN:C	2.34	0.69
8:G:87:GLN:HB3	8:G:91:ARG:NH2	2.07	0.69
8:G:336:VAL:HG23	8:G:354:ILE:CG1	2.21	0.69
9:Y:137:ILE:HA	9:Y:140:LEU:CG	2.22	0.69
1:1:98:DG:H5'	1:1:98:DG:H8	1.56	0.69
3:A:160:THR:OG1	3:A:161:TYR:N	2.24	0.69
3:A:492:PRO:O	3:A:494:ASP:N	2.19	0.69
3:A:599:VAL:N	3:A:615:PRO:HG3	2.07	0.69
3:A:703:LEU:C	3:A:704:ILE:HG12	2.16	0.69
3:A:1036:GLU:CD	3:A:1036:GLU:C	2.58	0.69
4:B:176:SER:O	4:B:177:TYR:C	2.33	0.69
4:B:760:GLN:HG3	4:B:761:GLN:N	2.05	0.69
4:B:1024:LYS:HB3	4:B:1087:PRO:HG2	1.74	0.69
4:B:1122:VAL:O	4:B:1123:ASN:C	2.32	0.69
4:B:1173:VAL:HG21	4:B:1190:TYR:CE1	2.27	0.69
5:D:105:THR:HG23	5:D:106:THR:O	1.91	0.69
6:E:202:LEU:HD11	6:E:235:ILE:CG2	2.22	0.69
6:E:414:SER:O	6:E:418:VAL:HG12	1.92	0.69
7:F:21:LEU:HD22	7:F:66:SER:HB3	1.74	0.69
8:G:318:LEU:HD13	8:G:390:ARG:O	1.93	0.69
1:1:82:DT:OP2	1:1:82:DT:H6	1.74	0.69
1:1:87:DA:N6	2:2:38:DT:C4	2.59	0.69
3:A:60:THR:O	3:A:62:LYS:N	2.24	0.69
3:A:223:ILE:O	3:A:225:LYS:N	2.25	0.69
3:A:491:ALA:HB3	3:A:527:VAL:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:608:VAL:HG23	3:A:608:VAL:O	1.90	0.69
3:A:797:ARG:HG3	3:A:798:ASP:H	1.55	0.69
3:A:903:LEU:O	3:A:904:GLY:C	2.30	0.69
3:A:912:VAL:CG2	3:A:914:PHE:CE1	2.75	0.69
4:B:251:PRO:HG2	4:B:254:LYS:HZ1	1.57	0.69
4:B:655:GLU:O	4:B:668:ASN:ND2	2.25	0.69
4:B:983:GLU:HG3	4:B:984:ASP:O	1.92	0.69
5:C:155:ARG:HD3	5:C:159:THR:HB	1.72	0.69
6:E:484:GLN:O	6:E:485:ALA:C	2.33	0.69
6:E:496:ASN:N	6:E:496:ASN:OD1	2.17	0.69
9:X:56:ARG:NH2	9:X:129:ARG:NH2	2.39	0.69
3:A:98:PRO:HA	3:A:113:GLU:CB	2.22	0.69
3:A:107:GLY:H	4:B:557:GLN:HB3	1.57	0.69
3:A:572:PRO:HB3	3:A:978:TYR:CZ	2.28	0.69
3:A:592:SER:OG	3:A:666:GLY:N	2.25	0.69
3:A:1036:GLU:O	3:A:1039:THR:N	2.24	0.69
3:A:1049:ASN:HA	8:G:309:PRO:HB3	1.74	0.69
4:B:93:LYS:HZ1	4:B:375:ASP:CA	2.04	0.69
4:B:695:ASP:OD2	4:B:734:PRO:HB3	1.93	0.69
4:B:760:GLN:CG	4:B:764:ARG:HE	2.04	0.69
4:B:1144:ILE:O	4:B:1145:VAL:C	2.33	0.69
5:C:19:HIS:HB2	5:C:200:THR:H	1.57	0.69
6:E:47:TYR:CD1	8:G:232:PRO:HD3	2.26	0.69
6:E:69:TRP:HD1	6:E:93:VAL:HG12	1.54	0.69
8:G:185:GLN:O	8:G:186:GLU:C	2.32	0.69
8:G:313:VAL:HG13	8:G:314:SER:N	2.07	0.69
9:X:47:LEU:CD1	9:X:52:VAL:HG23	2.18	0.69
9:Y:78:LEU:CG	9:Y:88:ARG:HD2	2.15	0.69
1:1:62:DT:OP2	1:1:62:DT:C6	2.46	0.69
3:A:77:PRO:O	3:A:78:LYS:HE2	1.93	0.69
3:A:292:LEU:C	3:A:292:LEU:HD12	2.17	0.69
3:A:367:PRO:O	3:A:368:LYS:C	2.35	0.69
3:A:510:VAL:O	3:A:516:PHE:HA	1.93	0.69
4:B:7:VAL:HG13	6:E:522:ALA:HA	1.74	0.69
4:B:68:ALA:CB	4:B:419:LYS:HE2	2.17	0.69
4:B:96:ASP:HA	4:B:423:LEU:H	1.57	0.69
4:B:189:ARG:HH22	4:B:330:LEU:C	2.01	0.69
4:B:197:THR:O	4:B:198:ARG:C	2.33	0.69
4:B:304:ALA:CA	6:E:500:PRO:HA	2.21	0.69
4:B:483:LEU:HD23	4:B:969:GLY:HA3	1.73	0.69
4:B:792:ARG:HG3	4:B:794:GLN:N	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:936:GLU:OE2	4:B:937:SER:N	2.24	0.69
5:C:64:GLU:O	5:C:76:LEU:HD11	1.91	0.69
5:C:77:GLU:OE2	5:C:78:ILE:N	2.25	0.69
5:C:85:VAL:HA	5:C:125:GLN:OE1	1.91	0.69
5:D:64:GLU:O	5:D:76:LEU:HD11	1.91	0.69
5:D:213:ALA:O	5:D:214:ALA:C	2.36	0.69
6:E:41:LYS:HB3	6:E:43:GLU:CD	2.18	0.69
6:E:594:ARG:HB2	6:E:603:SER:H	1.58	0.69
9:X:57:VAL:HG22	9:X:58:TYR:N	2.06	0.69
2:2:57:DT:H4'	2:2:58:DA:H5'	1.73	0.69
3:A:31:ILE:O	3:A:32:GLU:C	2.30	0.69
3:A:103:ASN:HB2	3:A:105:GLU:CD	2.17	0.69
3:A:140:GLN:HE21	3:A:326:ARG:HE	1.41	0.69
3:A:199:LEU:CD2	3:A:229:PHE:HE2	1.88	0.69
3:A:748:LEU:N	3:A:751:LEU:CD1	2.25	0.69
4:B:519:HIS:H	4:B:868:GLY:H	1.39	0.69
4:B:648:VAL:HG21	4:B:661:VAL:HB	1.74	0.69
4:B:800:GLU:CG	4:B:801:GLN:H	2.06	0.69
5:C:83:LYS:HZ1	5:C:168:SER:HA	1.55	0.69
5:D:123:PRO:O	5:D:124:THR:HB	1.92	0.69
5:D:186:ASP:OD1	5:D:190:PRO:HA	1.92	0.69
6:E:220:LYS:CD	6:E:223:LYS:CE	2.63	0.69
6:E:530:GLY:HA3	6:E:550:ILE:HG22	1.73	0.69
8:G:183:LEU:O	8:G:184:ILE:C	2.29	0.69
9:Y:49:LYS:O	9:Y:99:GLU:N	2.26	0.69
3:A:912:VAL:CG2	3:A:914:PHE:HE1	2.05	0.69
3:A:932:VAL:O	3:A:933:HIS:C	2.33	0.69
3:A:968:PHE:CE1	4:B:48:GLY:CA	2.76	0.69
4:B:360:PRO:HD2	4:B:393:GLY:O	1.92	0.69
4:B:443:LYS:O	4:B:996:LEU:HD13	1.92	0.69
4:B:456:ALA:C	4:B:458:VAL:H	2.00	0.69
4:B:648:VAL:CG1	4:B:661:VAL:HG12	2.19	0.69
4:B:918:ALA:HA	4:B:941:VAL:O	1.91	0.69
4:B:927:GLU:HA	4:B:933:PHE:HE1	1.56	0.69
4:B:1101:GLY:C	4:B:1109:CYS:HB2	2.17	0.69
4:B:1237:GLU:O	4:B:1241:ILE:N	2.26	0.69
5:C:142:ILE:HG22	5:C:143:GLU:N	2.06	0.69
5:D:142:ILE:HG22	5:D:143:GLU:N	2.06	0.69
6:E:76:TYR:CD2	6:E:81:HIS:NE2	2.61	0.69
6:E:206:ALA:O	6:E:207:GLU:HG3	1.92	0.69
6:E:572:GLU:HG2	6:E:572:GLU:O	1.87	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:83:ARG:NE	8:G:86:LEU:HD23	2.07	0.69
8:G:302:ILE:CG2	8:G:303:GLU:H	2.06	0.69
9:Y:78:LEU:HD11	9:Y:88:ARG:CZ	2.21	0.69
3:A:281:LEU:O	3:A:282:ARG:C	2.34	0.69
3:A:454:ASN:O	3:A:456:TYR:N	2.25	0.69
3:A:574:VAL:O	3:A:574:VAL:HG13	1.91	0.69
3:A:615:PRO:O	3:A:617:ALA:N	2.26	0.69
3:A:791:ILE:HG12	8:G:376:LEU:CD1	2.22	0.69
4:B:71:GLU:CA	4:B:74:ARG:HH11	2.05	0.69
4:B:97:THR:O	4:B:101:THR:HG23	1.93	0.69
4:B:144:ARG:NH2	4:B:163:PHE:CE2	2.60	0.69
4:B:174:ILE:HA	4:B:177:TYR:HD2	1.57	0.69
4:B:208:ILE:N	4:B:208:ILE:HD12	2.08	0.69
4:B:237:THR:O	4:B:238:ARG:C	2.34	0.69
4:B:262:THR:O	4:B:263:PRO:C	2.32	0.69
4:B:330:LEU:HD12	4:B:1011:LEU:CD1	2.22	0.69
4:B:360:PRO:HD2	4:B:393:GLY:N	2.08	0.69
4:B:401:GLU:O	4:B:402:ILE:HD13	1.92	0.69
4:B:440:LYS:HZ2	4:B:1000:GLU:N	1.89	0.69
4:B:522:VAL:HG23	4:B:524:ARG:N	2.05	0.69
4:B:563:LEU:HA	4:B:573:ASN:HD22	1.58	0.69
4:B:573:ASN:HB2	4:B:590:GLU:HB3	1.74	0.69
4:B:596:TYR:HD1	4:B:744:PHE:HB3	1.58	0.69
4:B:630:LEU:HA	4:B:743:GLU:HA	1.74	0.69
4:B:1145:VAL:HG13	4:B:1146:ARG:N	2.07	0.69
4:B:1238:ASN:O	4:B:1242:GLY:N	2.25	0.69
5:C:210:LEU:O	5:C:211:SER:C	2.32	0.69
5:C:219:ASP:HB3	5:C:220:LEU:HD12	1.73	0.69
5:D:13:THR:HG22	5:D:206:PRO:HD2	1.74	0.69
5:D:77:GLU:OE2	5:D:78:ILE:N	2.25	0.69
5:D:199:TRP:CD1	5:D:199:TRP:N	2.57	0.69
5:D:205:SER:OG	5:D:207:GLN:NE2	2.24	0.69
5:D:224:LEU:HD23	5:D:224:LEU:O	1.92	0.69
6:E:212:GLU:O	6:E:215:SER:N	2.26	0.69
6:E:225:ILE:O	6:E:228:LEU:HB2	1.92	0.69
6:E:263:ASP:OD1	6:E:263:ASP:N	2.20	0.69
6:E:283:ASN:O	6:E:284:ASN:C	2.31	0.69
6:E:508:THR:O	6:E:509:PRO:C	2.30	0.69
6:E:546:GLN:O	6:E:547:GLN:NE2	2.25	0.69
8:G:163:LEU:CG	8:G:164:ARG:H	2.04	0.69
9:X:145:MET:HE2	9:Y:143:ARG:HH22	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:85:DG:C2	1:1:86:DG:C4	2.80	0.69
2:2:39:DT:H6	2:2:39:DT:OP2	1.76	0.69
3:A:520:THR:OG1	3:A:522:GLU:OE1	2.09	0.69
4:B:41:PHE:O	4:B:42:ARG:C	2.29	0.69
4:B:111:THR:HA	4:B:350:ARG:HD3	1.75	0.69
4:B:283:ARG:CG	4:B:288:CYS:SG	2.81	0.69
4:B:687:LYS:HG3	4:B:739:ARG:HD3	1.74	0.69
4:B:1239:VAL:O	4:B:1240:ILE:C	2.33	0.69
5:C:19:HIS:NE2	5:C:202:GLY:HA2	2.08	0.69
5:C:72:ARG:HG3	5:C:73:GLU:HG3	1.75	0.69
5:C:97:GLY:HA3	5:C:114:LEU:HG	1.75	0.69
8:G:242:ILE:HG23	8:G:266:MET:HE1	0.71	0.69
9:X:203:ILE:HD13	9:X:210:ILE:HG23	1.73	0.69
9:Y:162:VAL:HG21	9:Y:171:ASP:CB	2.20	0.69
2:2:59:DG:C6	2:2:60:DC:C4	2.81	0.69
3:A:103:ASN:HD21	3:A:108:ASP:HB2	1.57	0.69
3:A:623:ASP:OD2	3:A:630:GLN:NE2	2.25	0.69
3:A:717:ILE:HG22	3:A:718:HIS:N	2.08	0.69
3:A:935:LYS:O	3:A:936:LEU:C	2.35	0.69
4:B:539:ILE:N	4:B:865:ILE:HD12	2.07	0.69
4:B:631:TRP:NE1	4:B:633:PRO:CA	2.55	0.69
4:B:774:LEU:HA	4:B:790:LEU:HA	1.72	0.69
4:B:982:ILE:HG22	4:B:983:GLU:N	2.07	0.69
4:B:1121:LEU:O	4:B:1122:VAL:C	2.34	0.69
5:C:119:GLU:OE1	5:C:119:GLU:N	2.26	0.69
5:D:67:THR:OG1	5:D:68:VAL:N	2.21	0.69
5:D:107:ILE:CD1	5:D:136:LEU:CD2	2.65	0.69
8:G:163:LEU:CD1	8:G:164:ARG:CG	2.66	0.69
9:Y:34:ILE:HG22	9:Y:45:TYR:CE1	2.27	0.69
9:Y:142:HIS:CE1	9:Y:144:ASP:HB3	2.28	0.69
1:1:68:DT:H3	2:2:59:DG:N2	1.88	0.68
1:1:113:DT:C4	2:2:13:DA:N1	2.62	0.68
3:A:251:LEU:O	3:A:255:GLN:OE1	2.10	0.68
3:A:345:ARG:O	3:A:346:ILE:C	2.36	0.68
3:A:590:ILE:HG23	3:A:590:ILE:O	1.93	0.68
3:A:900:GLU:O	3:A:903:LEU:N	2.26	0.68
4:B:88:VAL:N	4:B:89:GLU:OE1	2.26	0.68
4:B:203:VAL:HG21	4:B:1197:ILE:O	1.92	0.68
4:B:440:LYS:HB3	4:B:998:VAL:HG22	1.76	0.68
4:B:723:ARG:HD2	4:B:738:SER:CB	2.23	0.68
4:B:864:THR:HG23	4:B:864:THR:O	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1079:ALA:C	4:B:1081:GLN:N	2.46	0.68
4:B:1237:GLU:O	4:B:1238:ASN:C	2.36	0.68
5:D:28:LEU:HB2	5:D:192:ASP:CB	2.23	0.68
6:E:124:TYR:CD1	6:E:127:ILE:HD12	2.27	0.68
6:E:144:SER:CA	6:E:163:SER:HA	2.21	0.68
6:E:389:ILE:O	6:E:392:LEU:N	2.25	0.68
8:G:113:LEU:O	8:G:116:VAL:HB	1.93	0.68
8:G:322:LEU:O	8:G:323:GLU:C	2.35	0.68
9:X:69:LEU:HA	9:X:70:ARG:HH11	1.58	0.68
1:1:102:DA:C6	1:1:103:DA:C6	2.81	0.68
2:2:38:DT:H2"	2:2:39:DT:OP2	1.92	0.68
2:2:50:DG:C6	2:2:51:DT:C4	2.81	0.68
3:A:252:GLY:HA2	3:A:255:GLN:HE22	1.57	0.68
3:A:335:GLN:C	3:A:335:GLN:OE1	2.36	0.68
3:A:615:PRO:C	3:A:617:ALA:N	2.50	0.68
3:A:617:ALA:HA	3:A:620:LYS:N	2.07	0.68
3:A:968:PHE:CZ	4:B:48:GLY:CA	2.76	0.68
4:B:106:LYS:HE2	4:B:138:ARG:HD3	1.75	0.68
4:B:356:THR:HG23	4:B:411:TYR:HD2	1.58	0.68
4:B:700:VAL:HG13	4:B:703:ARG:O	1.91	0.68
4:B:854:GLN:CA	4:B:855:THR:HG23	2.23	0.68
4:B:906:ALA:HB3	4:B:966:ILE:O	1.94	0.68
4:B:908:LEU:H	4:B:964:VAL:HB	1.56	0.68
5:D:76:LEU:O	5:D:77:GLU:C	2.35	0.68
5:D:209:ALA:O	5:D:210:LEU:C	2.32	0.68
9:X:28:PHE:HB3	9:X:32:LYS:HD2	1.74	0.68
9:X:42:GLU:CA	9:X:78:LEU:HD12	2.18	0.68
1:1:113:DT:H1'	1:1:114:DC:OP1	1.94	0.68
1:1:115:DA:C8	1:1:116:DC:C4	2.81	0.68
3:A:489:ARG:O	3:A:525:ASP:HB2	1.92	0.68
3:A:623:ASP:HB3	3:A:629:SER:HB2	1.76	0.68
3:A:998:TYR:O	3:A:1006:LEU:HD22	1.94	0.68
4:B:666:CYS:C	4:B:668:ASN:H	2.01	0.68
4:B:688:PRO:HG2	4:B:739:ARG:CG	2.24	0.68
4:B:1225:ILE:HG22	4:B:1225:ILE:O	1.93	0.68
5:C:211:SER:CA	5:D:225:LYS:HA	2.10	0.68
6:E:586:VAL:C	6:E:587:LEU:HD12	2.17	0.68
8:G:114:GLU:HA	8:G:117:ARG:HG2	1.75	0.68
9:X:108:VAL:HG22	9:X:122:MET:CE	2.19	0.68
3:A:66:HIS:O	3:A:67:PHE:HD1	1.74	0.68
3:A:97:VAL:HG12	3:A:98:PRO:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:333:GLN:O	3:A:334:ASN:C	2.29	0.68
3:A:748:LEU:H	3:A:751:LEU:HD11	1.55	0.68
3:A:873:TYR:HE2	3:A:962:GLY:HA2	1.59	0.68
4:B:72:GLU:HG2	4:B:418:VAL:CB	2.23	0.68
4:B:96:ASP:HB3	4:B:423:LEU:N	2.09	0.68
4:B:1077:VAL:CG1	4:B:1081:GLN:HB3	2.24	0.68
5:C:79:ILE:O	5:C:80:MET:C	2.29	0.68
6:E:147:VAL:HG21	6:E:158:TYR:HA	1.72	0.68
6:E:588:TYR:HB2	6:E:591:ARG:H	1.58	0.68
8:G:88:GLU:HA	8:G:91:ARG:CZ	2.22	0.68
9:Y:27:THR:OG1	9:Y:99:GLU:HA	1.93	0.68
9:Y:44:VAL:HG11	9:Y:46:PHE:CZ	2.28	0.68
1:1:61:DT:H2"	1:1:62:DT:C7	2.24	0.68
2:2:36:DT:C1'	2:2:37:DT:H5'	2.23	0.68
3:A:27:LEU:HD13	3:A:28:PRO:HD2	1.75	0.68
3:A:198:LEU:HD21	3:A:298:LEU:CB	2.23	0.68
3:A:254:GLN:OE1	3:A:255:GLN:N	2.27	0.68
3:A:263:ASP:N	3:A:263:ASP:OD1	2.21	0.68
3:A:276:LYS:O	3:A:277:LEU:C	2.34	0.68
3:A:298:LEU:O	3:A:299:ALA:C	2.35	0.68
3:A:899:PHE:CZ	4:B:53:VAL:HG21	2.27	0.68
4:B:72:GLU:HB2	4:B:419:LYS:CB	2.21	0.68
4:B:96:ASP:O	4:B:422:GLN:HA	1.92	0.68
4:B:412:ILE:HA	4:B:424:LEU:HD22	1.75	0.68
4:B:640:ASN:HA	4:B:682:ARG:HA	1.75	0.68
5:D:8:CYS:HA	5:D:23:PHE:HD1	1.58	0.68
5:D:77:GLU:CD	5:D:78:ILE:N	2.52	0.68
6:E:60:GLU:HG2	6:E:64:GLY:O	1.93	0.68
6:E:67:LYS:HB3	6:E:70:GLU:CD	2.19	0.68
6:E:298:ILE:O	6:E:299:VAL:C	2.35	0.68
8:G:329:LEU:CD2	8:G:381:ARG:HH22	2.07	0.68
8:G:350:THR:O	8:G:351:LEU:C	2.36	0.68
9:X:37:PRO:CG	9:X:57:VAL:CG1	2.71	0.68
9:X:51:ALA:HB3	9:X:95:PHE:HD2	1.58	0.68
9:X:170:ILE:HG22	9:X:171:ASP:N	2.09	0.68
9:Y:55:SER:HA	9:Y:65:THR:CA	2.16	0.68
1:1:61:DT:H2"	1:1:62:DT:OP2	1.91	0.68
3:A:53:PHE:HD2	3:A:340:LEU:HD13	1.56	0.68
3:A:435:THR:HG22	3:A:436:PRO:HD2	1.74	0.68
3:A:558:ASN:N	3:A:558:ASN:OD1	2.14	0.68
4:B:43:TYR:HD2	6:E:520:LEU:HD12	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:100:GLY:HA2	4:B:424:LEU:HG	1.75	0.68
4:B:383:GLY:O	4:B:384:ILE:C	2.36	0.68
4:B:513:THR:HG23	4:B:874:THR:HB	1.76	0.68
4:B:646:LEU:HD23	4:B:662:LYS:N	2.09	0.68
4:B:710:PRO:HA	4:B:719:ALA:C	2.19	0.68
4:B:913:LYS:NZ	4:B:914:PRO:HD2	2.09	0.68
6:E:230:VAL:O	6:E:233:ASN:HB3	1.93	0.68
6:E:310:VAL:O	6:E:313:LEU:HB3	1.93	0.68
6:E:484:GLN:O	6:E:487:ALA:N	2.26	0.68
8:G:133:TRP:HA	8:G:135:GLU:O	1.93	0.68
9:Y:48:LEU:H	9:Y:100:LEU:HA	1.57	0.68
1:1:61:DT:C2	1:1:62:DT:C2	2.82	0.68
1:1:74:DT:C2	1:1:75:DA:C8	2.81	0.68
3:A:135:ARG:NE	3:A:384:SER:OG	2.27	0.68
3:A:144:SER:OG	3:A:324:ARG:HB2	1.93	0.68
3:A:449:THR:OG1	3:A:450:HIS:N	2.19	0.68
3:A:497:VAL:O	3:A:497:VAL:HG13	1.94	0.68
3:A:581:GLN:O	3:A:582:GLY:C	2.37	0.68
3:A:607:ARG:HD3	3:A:636:ARG:NH2	2.08	0.68
3:A:957:ILE:HD12	3:A:957:ILE:N	2.06	0.68
4:B:69:ALA:HB2	4:B:101:THR:HG21	1.74	0.68
4:B:146:LEU:HB3	4:B:154:ILE:HG22	1.75	0.68
4:B:303:LEU:HD13	6:E:502:THR:CA	2.12	0.68
4:B:550:THR:HG22	4:B:551:VAL:H	1.57	0.68
4:B:609:VAL:HG23	4:B:628:THR:O	1.94	0.68
4:B:678:ASN:OD1	4:B:680:ILE:O	2.11	0.68
4:B:797:LEU:HD12	4:B:832:LEU:HD13	1.75	0.68
5:C:4:PHE:CD2	5:D:223:PRO:HG3	2.29	0.68
5:C:213:ALA:O	5:C:214:ALA:C	2.36	0.68
6:E:154:GLU:HG3	6:E:155:THR:HG23	1.76	0.68
8:G:133:TRP:C	8:G:135:GLU:N	2.46	0.68
9:Y:55:SER:HB3	9:Y:65:THR:HG22	1.75	0.68
3:A:374:ILE:HG13	3:A:375:LYS:N	2.09	0.68
3:A:596:GLY:HA3	3:A:615:PRO:O	1.94	0.68
3:A:729:THR:CG2	3:A:731:LEU:H	2.06	0.68
3:A:1077:LEU:CA	3:A:1082:LEU:HD12	2.22	0.68
4:B:822:LEU:CA	4:B:826:ASP:HA	2.24	0.68
4:B:1091:HIS:O	4:B:1094:LEU:HG	1.94	0.68
5:D:108:THR:HA	5:D:127:VAL:HG23	1.76	0.68
8:G:138:GLN:H	8:G:138:GLN:CD	1.90	0.68
8:G:184:ILE:HD13	8:G:184:ILE:N	2.03	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:114:GLU:HB2	9:X:118:LEU:CD1	2.24	0.68
9:Y:69:LEU:HA	9:Y:70:ARG:HH11	1.58	0.68
3:A:58:ASP:HA	3:A:352:THR:OG1	1.94	0.68
3:A:598:VAL:HG12	3:A:661:GLU:N	2.08	0.68
3:A:789:ARG:HB3	3:A:789:ARG:CZ	2.17	0.68
3:A:821:THR:H	3:A:824:GLN:HB2	1.58	0.68
4:B:526:PRO:O	4:B:527:GLU:C	2.36	0.68
4:B:1145:VAL:O	4:B:1146:ARG:C	2.30	0.68
5:C:77:GLU:CD	5:C:78:ILE:N	2.52	0.68
5:D:210:LEU:O	5:D:213:ALA:N	2.27	0.68
6:E:306:LEU:O	6:E:309:ALA:N	2.26	0.68
9:Y:129:ARG:HA	9:Y:132:GLN:HB2	1.74	0.68
1:1:84:DA:N1	2:2:41:DC:N3	2.42	0.68
2:2:31:DA:C6	2:2:32:DA:C5	2.82	0.68
2:2:50:DG:C6	2:2:51:DT:C5	2.82	0.68
3:A:964:THR:OG1	3:A:965:GLY:N	2.26	0.68
4:B:96:ASP:HB3	4:B:422:GLN:C	2.19	0.68
4:B:125:MET:CG	6:E:515:LEU:HD23	2.00	0.68
4:B:366:ARG:NH2	4:B:377:LEU:HD23	2.09	0.68
4:B:367:THR:O	4:B:370:THR:N	2.26	0.68
4:B:809:ALA:O	4:B:813:ALA:N	2.26	0.68
4:B:1037:LYS:CD	4:B:1052:ILE:HG22	2.21	0.68
5:D:77:GLU:CA	5:D:80:MET:HG2	2.20	0.68
6:E:140:VAL:HG23	6:E:141:TYR:CD2	2.28	0.68
6:E:217:LYS:O	6:E:221:ARG:CZ	2.41	0.68
6:E:611:GLY:O	6:E:612:ARG:C	2.35	0.68
7:F:36:ALA:O	7:F:38:ARG:N	2.27	0.68
8:G:194:ALA:C	8:G:196:GLU:N	2.47	0.68
8:G:302:ILE:HG22	8:G:303:GLU:H	1.58	0.68
9:X:47:LEU:HD12	9:X:99:GLU:O	1.94	0.68
1:1:77:DA:N1	2:2:50:DG:C6	2.62	0.67
1:1:80:DA:N6	2:2:46:DT:C4	2.43	0.67
2:2:7:DT:C4	2:2:8:DC:N4	2.62	0.67
3:A:368:LYS:O	3:A:369:PRO:C	2.33	0.67
3:A:498:ASP:H	3:A:504:ILE:HG13	1.59	0.67
3:A:522:GLU:N	3:A:522:GLU:CD	2.51	0.67
3:A:596:GLY:N	3:A:618:SER:OG	2.28	0.67
3:A:765:ALA:HB1	3:A:808:ASN:HA	1.75	0.67
4:B:111:THR:OG1	4:B:112:HIS:N	2.24	0.67
4:B:347:GLN:HE21	4:B:356:THR:HG22	1.58	0.67
4:B:714:LEU:HD11	4:B:736:LEU:CD2	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:760:GLN:HE22	4:B:806:GLU:CB	2.04	0.67
4:B:764:ARG:HG3	4:B:807:HIS:CD2	2.29	0.67
5:C:99:LEU:HD11	5:C:101:VAL:CG2	2.24	0.67
5:C:183:VAL:HG23	5:C:192:ASP:N	2.09	0.67
5:C:227:ILE:HD13	5:D:5:GLN:HA	1.75	0.67
5:D:98:ARG:HH11	5:D:98:ARG:N	1.92	0.67
6:E:301:ASN:O	6:E:304:ARG:HB3	1.94	0.67
1:1:89:DA:N6	2:2:37:DT:C5	2.57	0.67
1:1:89:DA:C5	1:1:90:DA:C5	2.82	0.67
2:2:60:DC:H3'	2:2:61:DT:H71	1.77	0.67
3:A:274:ARG:C	3:A:278:ASN:ND2	2.53	0.67
3:A:280:LYS:HG3	3:A:281:LEU:HG	1.76	0.67
3:A:391:ASN:O	3:A:394:ALA:N	2.24	0.67
3:A:599:VAL:CG2	3:A:608:VAL:HA	2.24	0.67
3:A:1039:THR:O	3:A:1043:ASP:N	2.27	0.67
4:B:98:TRP:CD2	4:B:158:PRO:HG3	2.29	0.67
4:B:481:TRP:HA	4:B:970:ARG:O	1.94	0.67
4:B:496:LEU:HD22	4:B:892:GLU:HG2	1.75	0.67
4:B:678:ASN:HD21	4:B:682:ARG:HG2	1.58	0.67
5:D:140:PHE:CD1	5:D:140:PHE:C	2.71	0.67
7:F:55:MET:HB3	7:F:60:ARG:HE	1.60	0.67
1:1:80:DA:H2"	1:1:81:DT:H2'	1.76	0.67
1:1:107:DG:C2	1:1:108:DA:C2	2.83	0.67
2:2:27:DA:O3'	8:G:237:GLU:OE1	2.12	0.67
2:2:30:DG:C5	2:2:31:DA:C8	2.82	0.67
3:A:112:GLN:NE2	3:A:362:ALA:HB2	2.09	0.67
3:A:184:TRP:CD1	3:A:193:LEU:CD1	2.77	0.67
3:A:399:LYS:C	3:A:401:ARG:H	2.02	0.67
3:A:993:ARG:HD3	6:E:355:ASP:CB	2.24	0.67
3:A:1015:GLN:NE2	6:E:359:ARG:CG	2.58	0.67
4:B:146:LEU:HB3	4:B:154:ILE:CG2	2.24	0.67
4:B:361:ARG:HG3	4:B:390:ARG:CG	2.21	0.67
4:B:505:GLU:O	4:B:508:GLY:N	2.28	0.67
4:B:766:ILE:HG22	4:B:832:LEU:HD23	1.77	0.67
5:C:76:LEU:O	5:C:77:GLU:C	2.35	0.67
5:C:92:SER:HB2	5:C:144:ARG:NE	2.10	0.67
6:E:206:ALA:HA	6:E:210:ARG:NE	2.09	0.67
6:E:281:ASN:O	6:E:282:ARG:C	2.34	0.67
6:E:370:ILE:CG2	6:E:457:HIS:CE1	2.77	0.67
6:E:388:VAL:HG13	6:E:389:ILE:N	2.08	0.67
6:E:530:GLY:CA	6:E:550:ILE:HG22	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:89:ILE:O	8:G:92:ILE:HG22	1.95	0.67
8:G:110:LEU:CD1	8:G:148:LEU:O	2.38	0.67
8:G:359:ASN:OD1	8:G:361:THR:HG23	1.93	0.67
9:X:176:HIS:CG	9:X:190:VAL:HG22	2.25	0.67
1:1:67:DC:H2'	1:1:68:DT:O4'	1.94	0.67
2:2:12:DG:H2'	2:2:13:DA:O4'	1.94	0.67
3:A:168:ASN:N	3:A:269:LEU:O	2.27	0.67
3:A:294:SER:O	3:A:297:ILE:N	2.27	0.67
3:A:552:ARG:NH1	3:A:555:MET:HE1	2.10	0.67
3:A:938:GLU:C	3:A:938:GLU:CD	2.59	0.67
4:B:266:ASP:O	4:B:267:ASP:C	2.37	0.67
4:B:304:ALA:N	6:E:500:PRO:HA	2.09	0.67
4:B:596:TYR:HA	4:B:744:PHE:CD2	2.29	0.67
5:C:98:ARG:N	5:C:98:ARG:HH11	1.92	0.67
5:C:120:VAL:HG12	5:C:122:ASP:N	2.09	0.67
7:F:60:ARG:O	7:F:61:ALA:C	2.37	0.67
8:G:318:LEU:O	8:G:319:ARG:C	2.36	0.67
9:X:27:THR:OG1	9:X:98:VAL:O	2.10	0.67
1:1:119:DA:H2"	1:1:120:DT:C4	2.30	0.67
3:A:162:SER:OG	3:A:163:ALA:N	2.16	0.67
3:A:198:LEU:HG	3:A:198:LEU:O	1.95	0.67
3:A:252:GLY:O	3:A:253:GLY:C	2.38	0.67
3:A:1028:PHE:CE1	6:E:438:ARG:CG	2.75	0.67
3:A:1054:ALA:HA	3:A:1059:LYS:NZ	2.09	0.67
4:B:17:ILE:O	4:B:20:ALA:N	2.28	0.67
4:B:165:GLU:OE1	4:B:165:GLU:N	2.27	0.67
4:B:170:THR:O	4:B:171:GLU:C	2.36	0.67
4:B:323:ILE:O	4:B:326:PRO:HD2	1.94	0.67
4:B:675:THR:HB	4:B:677:LYS:HZ3	1.59	0.67
4:B:1028:ILE:HG22	4:B:1084:SER:H	1.58	0.67
4:B:1028:ILE:HA	4:B:1083:LEU:HB2	1.76	0.67
5:C:76:LEU:O	5:C:79:ILE:HG12	1.95	0.67
5:C:214:ALA:CB	5:D:224:LEU:HD22	2.24	0.67
5:D:76:LEU:O	5:D:79:ILE:HG12	1.95	0.67
6:E:131:MET:CB	6:E:136:VAL:HG23	2.25	0.67
6:E:302:GLU:O	6:E:303:LYS:C	2.34	0.67
6:E:395:SER:OG	6:E:397:MET:HE3	1.93	0.67
7:F:29:TYR:O	7:F:32:THR:N	2.27	0.67
9:Y:43:ARG:O	9:Y:76:GLY:HA2	1.95	0.67
1:1:85:DG:N3	1:1:86:DG:H5'	2.10	0.67
3:A:413:GLU:O	3:A:415:ALA:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:607:ARG:HG2	3:A:609:ARG:HD2	1.76	0.67
3:A:608:VAL:C	3:A:616:THR:HG22	2.20	0.67
4:B:82:ARG:CZ	4:B:924:ALA:HB3	2.25	0.67
4:B:286:LEU:HG	4:B:1142:GLU:HG3	1.75	0.67
4:B:586:GLN:HE22	4:B:797:LEU:C	2.02	0.67
4:B:597:ARG:HA	4:B:788:VAL:O	1.95	0.67
4:B:601:GLY:O	4:B:633:PRO:HA	1.93	0.67
4:B:760:GLN:HE21	4:B:764:ARG:HB2	1.58	0.67
4:B:922:ILE:HD11	4:B:928:LEU:HD22	1.75	0.67
4:B:928:LEU:HD11	4:B:934:ALA:HB3	1.76	0.67
4:B:1107:TYR:CZ	4:B:1174:GLU:HG3	2.28	0.67
5:C:123:PRO:O	5:C:124:THR:HB	1.92	0.67
5:C:210:LEU:O	5:C:213:ALA:N	2.27	0.67
5:D:186:ASP:CG	5:D:190:PRO:HA	2.19	0.67
6:E:310:VAL:O	6:E:311:ASP:C	2.30	0.67
6:E:533:LYS:HB2	6:E:556:VAL:HG13	1.75	0.67
9:Y:30:ARG:HB2	9:Y:97:PRO:HD3	1.75	0.67
9:Y:49:LYS:HB2	9:Y:99:GLU:HB3	1.77	0.67
1:1:94:DT:C5'	6:E:47:TYR:OH	2.41	0.67
2:2:33:DA:C2	2:2:34:DA:C4	2.82	0.67
3:A:269:LEU:HG	3:A:273:GLY:HA3	1.77	0.67
3:A:606:ILE:H	3:A:609:ARG:CZ	2.08	0.67
3:A:609:ARG:CA	3:A:635:ILE:HG13	2.25	0.67
3:A:953:ASP:HB3	3:A:956:LYS:HG3	1.77	0.67
3:A:1074:MET:O	3:A:1075:ARG:C	2.36	0.67
3:A:1098:LEU:O	3:A:1099:ASP:OD1	2.12	0.67
4:B:811:PRO:HG2	4:B:812:LEU:HD12	1.77	0.67
5:D:28:LEU:HB2	5:D:192:ASP:HB2	1.76	0.67
5:D:120:VAL:HG12	5:D:122:ASP:N	2.09	0.67
6:E:254:PRO:O	6:E:257:ARG:HG3	1.95	0.67
8:G:112:GLU:CD	8:G:113:LEU:N	2.53	0.67
8:G:242:ILE:CB	8:G:266:MET:HE1	2.25	0.67
1:1:85:DG:O6	2:2:40:DC:C4	2.48	0.67
1:1:115:DA:C6	2:2:10:DG:C6	2.83	0.67
2:2:45:DA:H3'	2:2:45:DA:P	2.34	0.67
3:A:58:ASP:OD2	3:A:62:LYS:HB3	1.94	0.67
3:A:58:ASP:CG	3:A:62:LYS:H	2.02	0.67
3:A:68:LEU:HD12	3:A:70:HIS:CD2	2.29	0.67
3:A:303:TYR:O	3:A:307:LEU:HD23	1.95	0.67
3:A:606:ILE:O	3:A:609:ARG:NE	2.26	0.67
3:A:727:ARG:H	3:A:734:GLU:CD	2.02	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:990:ILE:O	3:A:991:HIS:CG	2.48	0.67
3:A:1073:LEU:O	3:A:1074:MET:C	2.33	0.67
4:B:37:LYS:CG	4:B:38:ASP:N	2.53	0.67
4:B:537:ILE:C	4:B:837:SER:HA	2.20	0.67
4:B:634:GLU:OE1	4:B:781:ARG:CZ	2.43	0.67
4:B:653:TYR:HD1	4:B:671:VAL:CB	2.07	0.67
4:B:671:VAL:O	4:B:687:LYS:HB2	1.95	0.67
4:B:764:ARG:NH1	4:B:834:ILE:HD11	2.08	0.67
4:B:1128:VAL:O	4:B:1131:SER:HB2	1.94	0.67
5:C:20:TYR:HB2	5:C:199:TRP:CZ3	2.30	0.67
5:D:10:GLU:HG3	5:D:10:GLU:O	1.94	0.67
6:E:613:VAL:HG13	6:E:614:ILE:N	2.08	0.67
9:X:131:LEU:HG	9:X:135:MET:HE3	1.75	0.67
9:X:171:ASP:O	9:X:172:LEU:HG	1.95	0.67
1:1:87:DA:H2"	1:1:88:DA:C5'	2.24	0.67
1:1:98:DG:C4	1:1:99:DT:C4	2.83	0.67
2:2:66:DA:O4'	2:2:66:DA:N3	2.18	0.67
3:A:340:LEU:O	3:A:341:ASN:C	2.34	0.67
3:A:616:THR:HA	3:A:635:ILE:HD11	1.76	0.67
3:A:1024:ALA:HA	6:E:438:ARG:HA	1.75	0.67
3:A:1091:THR:HB	3:A:1093:ALA:O	1.95	0.67
4:B:237:THR:O	4:B:240:LEU:N	2.27	0.67
4:B:459:VAL:O	4:B:475:ALA:HB2	1.95	0.67
4:B:565:THR:HA	4:B:571:VAL:CA	2.25	0.67
4:B:773:ARG:HB3	4:B:792:ARG:H	1.57	0.67
4:B:1221:THR:OG1	4:B:1222:GLU:HG3	1.93	0.67
6:E:614:ILE:O	6:E:617:LYS:N	2.28	0.67
8:G:204:TYR:CD2	8:G:208:THR:OG1	2.46	0.67
8:G:351:LEU:C	8:G:354:ILE:HG22	2.19	0.67
9:Y:196:ASP:HB3	9:Y:203:ILE:HG12	1.77	0.67
9:Y:196:ASP:OD1	9:Y:200:LYS:HD2	1.94	0.67
1:1:73:DA:C5	2:2:53:DT:O4	2.29	0.67
1:1:84:DA:N6	2:2:41:DC:N4	2.42	0.67
1:1:85:DG:C2	2:2:41:DC:N3	2.62	0.67
3:A:402:LEU:HD12	3:A:402:LEU:O	1.95	0.67
3:A:551:ASN:O	3:A:554:LEU:HB3	1.95	0.67
3:A:597:ASP:N	3:A:615:PRO:CA	2.57	0.67
4:B:358:LYS:HG2	4:B:410:ILE:HD11	1.72	0.67
4:B:360:PRO:HD2	4:B:393:GLY:H	1.60	0.67
4:B:444:ASP:CG	4:B:446:ALA:H	2.03	0.67
5:C:206:PRO:O	5:C:207:GLN:C	2.34	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:370:ILE:HG22	6:E:457:HIS:ND1	2.10	0.67
6:E:540:ASP:O	6:E:541:VAL:C	2.38	0.67
6:E:576:VAL:HG12	6:E:586:VAL:CG2	2.24	0.67
8:G:110:LEU:CD1	8:G:152:ARG:H	2.07	0.67
8:G:112:GLU:O	8:G:115:ARG:N	2.28	0.67
8:G:320:GLU:OE1	8:G:320:GLU:N	2.28	0.67
8:G:338:ARG:HG2	8:G:343:LEU:HB3	1.75	0.67
1:1:59:DT:H2"	1:1:60:DT:H71	1.76	0.66
1:1:114:DC:H5'	1:1:114:DC:C2	2.30	0.66
1:1:118:DG:H1	2:2:7:DT:H3	1.42	0.66
2:2:38:DT:C2'	2:2:39:DT:H71	2.23	0.66
2:2:58:DA:H2'	2:2:58:DA:OP2	1.96	0.66
3:A:101:LEU:HB3	3:A:109:ILE:HG22	1.77	0.66
3:A:189:LYS:HG3	3:A:190:THR:N	2.08	0.66
3:A:271:ARG:HA	3:A:290:ARG:HH22	1.60	0.66
3:A:464:ARG:HB2	3:A:527:VAL:HG13	1.76	0.66
3:A:510:VAL:HG11	3:A:519:THR:CG2	2.25	0.66
3:A:576:THR:HG23	3:A:576:THR:O	1.93	0.66
3:A:590:ILE:CG2	3:A:669:LEU:HB2	2.20	0.66
3:A:615:PRO:HG2	3:A:616:THR:CG2	2.24	0.66
4:B:63:ARG:NH2	4:B:67:GLU:HB3	2.08	0.66
5:C:108:THR:CG2	5:C:124:THR:CA	2.73	0.66
5:D:35:THR:HA	5:D:38:ASN:CB	2.24	0.66
5:D:181:GLU:N	5:D:181:GLU:OE1	2.28	0.66
5:D:181:GLU:O	5:D:181:GLU:HG2	1.86	0.66
5:D:181:GLU:CD	5:D:193:ARG:HB2	2.18	0.66
6:E:480:SER:HG	6:E:483:SER:N	1.88	0.66
6:E:511:GLN:N	6:E:511:GLN:CD	2.52	0.66
9:X:43:ARG:CZ	9:X:108:VAL:HG23	2.25	0.66
9:Y:56:ARG:HB2	9:Y:90:TYR:CE1	2.30	0.66
1:1:88:DA:N6	2:2:37:DT:N3	2.43	0.66
3:A:31:ILE:O	3:A:33:ILE:N	2.29	0.66
3:A:98:PRO:HA	3:A:113:GLU:HB3	1.78	0.66
3:A:968:PHE:HD1	4:B:47:ALA:O	1.70	0.66
3:A:1007:GLY:HA3	6:E:353:ARG:NE	2.11	0.66
4:B:200:LEU:O	4:B:201:VAL:C	2.34	0.66
4:B:385:MET:H	4:B:405:THR:CA	2.04	0.66
4:B:461:GLU:H	4:B:474:ALA:C	2.04	0.66
4:B:627:GLY:H	4:B:628:THR:HG23	1.60	0.66
4:B:703:ARG:NH2	4:B:714:LEU:O	2.29	0.66
5:C:227:ILE:HD11	5:D:5:GLN:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:10:GLU:HB3	5:D:22:LYS:H	1.60	0.66
6:E:407:LEU:CD1	6:E:412:ASP:HB2	2.25	0.66
6:E:425:GLY:O	6:E:427:PRO:HD3	1.95	0.66
6:E:490:LEU:N	6:E:490:LEU:HD23	2.11	0.66
7:F:64:GLU:OE1	7:F:68:GLU:HG3	1.95	0.66
8:G:302:ILE:CG2	8:G:303:GLU:N	2.58	0.66
8:G:323:GLU:O	8:G:327:ASP:N	2.25	0.66
8:G:335:ASP:OD1	8:G:339:LEU:CD2	2.42	0.66
9:X:55:SER:HA	9:X:65:THR:HA	1.76	0.66
9:X:77:VAL:HB	9:X:80:LEU:HD23	1.78	0.66
9:Y:43:ARG:HG3	9:Y:44:VAL:N	2.11	0.66
9:Y:69:LEU:HD21	9:Y:73:SER:C	2.20	0.66
2:2:41:DC:C4'	2:2:42:DT:H5'	2.24	0.66
3:A:65:LEU:HA	3:A:102:LEU:CD2	2.25	0.66
3:A:112:GLN:CD	3:A:361:PRO:HG2	2.21	0.66
3:A:597:ASP:CG	3:A:662:ARG:HH11	2.03	0.66
3:A:1023:TRP:CE3	6:E:436:LEU:HD13	2.28	0.66
3:A:1037:LEU:HD23	3:A:1037:LEU:C	2.21	0.66
3:A:1087:HIS:CE1	6:E:11:TYR:CZ	2.84	0.66
4:B:26:THR:O	4:B:27:ALA:C	2.36	0.66
4:B:93:LYS:CG	4:B:370:THR:HB	2.25	0.66
4:B:704:ASP:OD1	4:B:705:ASN:ND2	2.28	0.66
4:B:916:VAL:H	4:B:943:VAL:HG12	1.59	0.66
5:C:13:THR:CG2	5:C:206:PRO:CG	2.73	0.66
5:D:59:ALA:HA	5:D:162:ASP:CG	2.20	0.66
6:E:332:LYS:HZ2	8:G:297:ARG:NH2	1.92	0.66
6:E:537:SER:C	6:E:539:ASP:N	2.51	0.66
9:X:75:PHE:HE2	9:X:100:LEU:CD2	2.05	0.66
9:Y:142:HIS:CE1	9:Y:147:SER:HB2	2.30	0.66
3:A:462:PRO:HB3	3:A:479:TYR:CE1	2.31	0.66
3:A:620:LYS:NZ	3:A:630:GLN:O	2.14	0.66
3:A:707:ARG:HA	3:A:710:GLN:OE1	1.95	0.66
4:B:180:ARG:O	4:B:183:LEU:N	2.28	0.66
4:B:244:VAL:HG23	4:B:244:VAL:O	1.95	0.66
4:B:413:VAL:N	4:B:424:LEU:HD22	2.10	0.66
4:B:503:ARG:HD3	4:B:503:ARG:C	2.20	0.66
4:B:548:GLN:HB2	4:B:753:PRO:CG	2.25	0.66
4:B:678:ASN:ND2	4:B:681:LEU:HA	2.10	0.66
4:B:792:ARG:HG3	4:B:794:GLN:H	1.59	0.66
4:B:896:ARG:HG2	4:B:987:LEU:N	2.10	0.66
5:C:37:GLY:O	5:C:38:ASN:C	2.37	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:41:ARG:O	5:C:42:ARG:C	2.37	0.66
5:D:171:MET:SD	5:D:172:PRO:N	2.69	0.66
6:E:546:GLN:N	6:E:546:GLN:CD	2.52	0.66
8:G:329:LEU:HD22	8:G:381:ARG:HH22	1.60	0.66
9:X:108:VAL:HG13	9:X:112:LEU:HD13	1.76	0.66
9:X:149:LEU:HD13	9:X:193:LEU:HD11	1.76	0.66
9:Y:40:PRO:HG3	9:Y:87:ASP:HA	1.76	0.66
1:1:79:DA:H2"	1:1:80:DA:N3	2.09	0.66
2:2:59:DG:C5	2:2:60:DC:C4	2.84	0.66
3:A:273:GLY:O	3:A:274:ARG:C	2.39	0.66
3:A:1034:LEU:O	3:A:1038:LEU:HD23	1.95	0.66
3:A:1085:ALA:O	3:A:1086:VAL:C	2.33	0.66
4:B:93:LYS:HD2	4:B:370:THR:CB	2.22	0.66
4:B:93:LYS:CB	4:B:372:HIS:NE2	2.59	0.66
4:B:360:PRO:HG2	4:B:386:ILE:HG13	1.77	0.66
4:B:989:GLN:N	4:B:992:ASP:OD2	2.19	0.66
5:C:108:THR:HG23	5:C:124:THR:CA	2.25	0.66
6:E:100:ARG:HG2	6:E:255:ASP:OD2	1.94	0.66
6:E:162:LEU:HA	6:E:166:GLN:HE21	1.61	0.66
6:E:250:PRO:C	6:E:251:VAL:HG23	2.19	0.66
6:E:499:SER:OG	6:E:501:ALA:N	2.28	0.66
8:G:172:LYS:O	8:G:176:ARG:HG2	1.93	0.66
8:G:254:GLY:O	8:G:257:PRO:HD3	1.96	0.66
8:G:322:LEU:O	8:G:325:VAL:HG12	1.94	0.66
1:1:121:DG:C1'	1:1:122:DC:H5'	2.24	0.66
2:2:46:DT:H2"	2:2:47:DT:OP2	1.95	0.66
2:2:57:DT:C2	2:2:58:DA:C2	2.83	0.66
3:A:110:LYS:HZ1	3:A:360:THR:HA	1.60	0.66
3:A:376:GLU:O	3:A:380:SER:N	2.24	0.66
3:A:550:ALA:O	3:A:551:ASN:C	2.35	0.66
3:A:552:ARG:CZ	3:A:892:ARG:CG	2.66	0.66
3:A:631:LYS:O	3:A:633:GLN:CD	2.39	0.66
3:A:686:ILE:CD1	3:A:882:ILE:HD11	2.25	0.66
4:B:463:LYS:CE	4:B:466:ARG:H	2.09	0.66
4:B:482:ILE:HG13	4:B:483:LEU:N	2.10	0.66
4:B:602:GLY:N	4:B:634:GLU:HG2	2.11	0.66
4:B:760:GLN:HG2	4:B:764:ARG:NE	2.08	0.66
4:B:1106:VAL:O	4:B:1109:CYS:SG	2.54	0.66
4:B:1129:TYR:C	4:B:1130:GLN:NE2	2.53	0.66
4:B:1226:GLU:N	4:B:1226:GLU:CD	2.49	0.66
5:C:78:ILE:C	5:C:80:MET:N	2.47	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:118:VAL:HG21	5:D:142:ILE:CG1	2.19	0.66
7:F:36:ALA:O	7:F:37:ASN:C	2.35	0.66
1:1:61:DT:C6	1:1:62:DT:C4	2.83	0.66
1:1:72:DT:H73	9:X:187:ARG:CZ	2.24	0.66
1:1:99:DT:C2	8:G:212:TRP:CZ3	2.84	0.66
2:2:45:DA:C4	2:2:46:DT:C2	2.83	0.66
3:A:49:GLU:OE1	3:A:50:LEU:N	2.29	0.66
3:A:72:TYR:O	3:A:73:LYS:C	2.39	0.66
3:A:606:ILE:H	3:A:609:ARG:NE	1.93	0.66
3:A:968:PHE:CD1	4:B:48:GLY:HA3	2.31	0.66
4:B:250:HIS:CD2	4:B:250:HIS:N	2.59	0.66
4:B:330:LEU:C	4:B:332:MET:H	2.04	0.66
4:B:929:ALA:N	4:B:932:ILE:O	2.26	0.66
6:E:202:LEU:CG	6:E:235:ILE:CG2	2.73	0.66
9:X:145:MET:HB2	9:X:183:ILE:CG2	2.22	0.66
1:1:97:DT:C2	1:1:98:DG:C5	2.83	0.66
1:1:115:DA:C2	2:2:11:DT:N3	2.64	0.66
3:A:336:VAL:O	3:A:337:ARG:C	2.39	0.66
3:A:904:GLY:O	3:A:905:TRP:C	2.38	0.66
4:B:91:PHE:C	4:B:93:LYS:H	2.04	0.66
4:B:99:ASN:CG	4:B:424:LEU:H	2.01	0.66
4:B:169:VAL:HG23	4:B:170:THR:N	2.11	0.66
4:B:173:ILE:O	4:B:174:ILE:C	2.39	0.66
4:B:643:ILE:H	4:B:680:ILE:HA	1.61	0.66
4:B:653:TYR:CD1	4:B:671:VAL:CB	2.79	0.66
4:B:1010:GLY:O	4:B:1011:LEU:C	2.38	0.66
5:C:47:ASN:N	5:C:47:ASN:OD1	2.19	0.66
6:E:201:ASN:C	6:E:201:ASN:OD1	2.37	0.66
6:E:312:ALA:O	6:E:313:LEU:C	2.36	0.66
6:E:314:ILE:HD12	6:E:314:ILE:N	2.00	0.66
8:G:249:LEU:CG	8:G:262:ILE:CD1	2.74	0.66
9:X:54:LEU:HD22	9:X:92:ALA:HB1	1.76	0.66
1:1:72:DT:C5	9:X:187:ARG:NH1	2.62	0.66
3:A:80:SER:OG	3:A:82:GLU:N	2.29	0.66
3:A:454:ASN:N	3:A:458:PHE:O	2.29	0.66
3:A:756:ILE:CG2	3:A:757:ILE:N	2.58	0.66
3:A:1015:GLN:NE2	6:E:359:ARG:CD	2.55	0.66
3:A:1043:ASP:O	3:A:1044:ASP:C	2.31	0.66
3:A:1045:MET:O	3:A:1046:GLN:C	2.39	0.66
4:B:332:MET:CA	4:B:332:MET:HE2	2.26	0.66
5:C:68:VAL:HG13	5:C:71:VAL:HG11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:26:GLU:HB3	5:D:27:PRO:HD3	1.76	0.66
5:D:141:ARG:O	5:D:142:ILE:HD13	1.96	0.66
5:D:148:TYR:N	5:D:148:TYR:CD1	2.63	0.66
6:E:30:LEU:HD23	6:E:34:GLN:H	1.60	0.66
6:E:102:ARG:O	6:E:253:PRO:HG3	1.95	0.66
6:E:311:ASP:O	6:E:312:ALA:C	2.34	0.66
8:G:121:SER:HA	8:G:127:ASP:CA	2.24	0.66
8:G:192:ILE:O	8:G:193:ARG:C	2.33	0.66
8:G:348:MET:O	8:G:349:LYS:HG2	1.95	0.66
2:2:45:DA:H2"	2:2:46:DT:OP2	1.96	0.66
3:A:112:GLN:CG	3:A:361:PRO:HG2	2.26	0.66
3:A:398:HIS:O	3:A:398:HIS:CG	2.49	0.66
3:A:912:VAL:HG13	3:A:914:PHE:CZ	2.31	0.66
3:A:1068:GLU:O	3:A:1070:PHE:N	2.29	0.66
4:B:355:GLY:HA3	4:B:358:LYS:HZ2	1.60	0.66
4:B:461:GLU:HB3	4:B:475:ALA:HA	1.76	0.66
4:B:481:TRP:HB3	4:B:482:ILE:O	1.95	0.66
4:B:603:PHE:HD2	4:B:781:ARG:HB2	1.61	0.66
4:B:882:GLY:HA3	4:B:900:LEU:O	1.96	0.66
5:C:227:ILE:HD11	5:D:5:GLN:CB	2.25	0.66
5:D:37:GLY:O	5:D:38:ASN:C	2.37	0.66
5:D:68:VAL:HG13	5:D:71:VAL:HG11	1.78	0.66
5:D:147:GLY:C	5:D:148:TYR:HD1	2.04	0.66
5:D:204:ILE:HG22	5:D:205:SER:O	1.96	0.66
6:E:125:ILE:HG22	6:E:129:LEU:HD13	1.78	0.66
6:E:389:ILE:O	6:E:390:ASN:C	2.32	0.66
8:G:340:ARG:HA	8:G:349:LYS:H	1.61	0.66
9:Y:53:LYS:CE	9:Y:68:LEU:HD22	2.25	0.66
9:Y:81:LEU:HD22	9:Y:86:SER:HB2	1.77	0.66
1:1:112:DG:H5"	3:A:414:ARG:NH2	2.11	0.65
1:1:122:DC:C4	2:2:3:DT:C4	2.84	0.65
3:A:83:GLU:O	3:A:86:ARG:N	2.28	0.65
3:A:122:MET:HA	3:A:128:PHE:CD1	2.32	0.65
3:A:427:TYR:CD2	3:A:511:ARG:NH2	2.63	0.65
3:A:688:VAL:HG22	3:A:689:ALA:N	2.07	0.65
3:A:762:TRP:CD1	3:A:762:TRP:C	2.69	0.65
3:A:797:ARG:HE	3:A:798:ASP:N	1.93	0.65
3:A:1077:LEU:CA	3:A:1082:LEU:CD1	2.74	0.65
4:B:90:ARG:HD2	4:B:90:ARG:C	2.21	0.65
4:B:280:VAL:HG22	4:B:281:VAL:N	2.11	0.65
4:B:482:ILE:HG23	4:B:969:GLY:HA2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:597:ARG:HG2	4:B:788:VAL:HA	1.75	0.65
4:B:766:ILE:CG2	4:B:799:ILE:HD12	2.07	0.65
4:B:772:GLN:CA	4:B:792:ARG:O	2.42	0.65
5:C:57:ARG:NE	5:C:163:PHE:HA	2.10	0.65
6:E:538:LEU:O	6:E:540:ASP:N	2.27	0.65
8:G:116:VAL:O	8:G:119:ARG:HG2	1.96	0.65
8:G:246:THR:HB	8:G:256:LYS:HD3	1.74	0.65
8:G:340:ARG:N	8:G:354:ILE:HD12	2.10	0.65
9:X:98:VAL:HG13	9:X:100:LEU:CD1	2.25	0.65
3:A:74:LEU:HD22	3:A:95:MET:CB	1.82	0.65
3:A:307:LEU:HD23	3:A:307:LEU:H	1.59	0.65
3:A:599:VAL:H	3:A:608:VAL:HG12	1.61	0.65
4:B:59:PRO:HG3	4:B:109:VAL:HB	1.77	0.65
4:B:630:LEU:HB3	4:B:743:GLU:HB2	1.76	0.65
4:B:909:ASN:OD1	4:B:962:TYR:HB2	1.96	0.65
4:B:1021:ARG:C	4:B:1023:PRO:HD3	2.20	0.65
4:B:1082:PRO:CB	4:B:1088:SER:HB3	2.26	0.65
5:C:63:HIS:CD2	5:C:63:HIS:C	2.73	0.65
5:C:204:ILE:HG22	5:C:205:SER:O	1.96	0.65
5:D:20:TYR:HB2	5:D:199:TRP:CE3	2.31	0.65
5:D:217:LEU:O	5:D:218:VAL:C	2.40	0.65
6:E:143:ASN:O	6:E:144:SER:OG	2.13	0.65
6:E:144:SER:HA	6:E:163:SER:CA	2.19	0.65
6:E:269:THR:HG22	8:G:283:PRO:HB2	1.79	0.65
6:E:298:ILE:O	6:E:301:ASN:N	2.29	0.65
6:E:542:ILE:O	6:E:543:MET:C	2.34	0.65
9:X:206:HIS:H	9:X:209:LYS:HB2	1.60	0.65
1:1:79:DA:N1	2:2:47:DT:C2	2.63	0.65
3:A:221:LYS:HG3	3:A:225:LYS:HG2	1.78	0.65
3:A:808:ASN:OD1	3:A:808:ASN:N	2.11	0.65
3:A:928:SER:HA	3:A:931:ILE:CD1	2.26	0.65
3:A:1050:GLU:C	3:A:1050:GLU:CD	2.61	0.65
4:B:107:ASP:O	4:B:111:THR:HG23	1.96	0.65
4:B:230:LYS:NZ	4:B:232:LEU:HA	2.11	0.65
4:B:668:ASN:HB2	4:B:686:VAL:HG11	1.77	0.65
4:B:1159:ASP:CG	4:B:1180:MET:HE1	2.21	0.65
5:C:214:ALA:O	5:C:215:GLY:C	2.37	0.65
5:D:214:ALA:O	5:D:215:GLY:C	2.37	0.65
6:E:42:PRO:O	6:E:57:LEU:CD2	2.45	0.65
6:E:226:LYS:O	6:E:227:ARG:C	2.36	0.65
6:E:296:GLU:N	6:E:296:GLU:CD	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:199:ASP:O	8:G:201:GLU:N	2.29	0.65
8:G:371:LYS:HG2	8:G:375:LYS:HD2	1.77	0.65
9:X:37:PRO:HG2	9:X:57:VAL:CG1	2.24	0.65
9:X:69:LEU:HD21	9:X:73:SER:C	2.20	0.65
9:X:143:ARG:O	9:X:148:ARG:CZ	2.44	0.65
3:A:296:ASP:O	3:A:297:ILE:C	2.38	0.65
3:A:633:GLN:O	3:A:635:ILE:N	2.30	0.65
3:A:704:ILE:HG22	3:A:705:SER:O	1.96	0.65
3:A:910:LEU:HD21	3:A:939:ALA:HA	1.79	0.65
4:B:79:ARG:HD3	4:B:84:GLU:HB2	1.76	0.65
4:B:80:TYR:HA	4:B:85:ILE:HG13	1.77	0.65
4:B:374:GLU:O	4:B:416:GLN:HG3	1.95	0.65
4:B:385:MET:CG	4:B:406:GLN:N	2.54	0.65
4:B:489:ASN:HB3	4:B:850:GLN:HA	1.78	0.65
4:B:603:PHE:HA	4:B:781:ARG:HA	1.79	0.65
4:B:603:PHE:N	4:B:781:ARG:HH11	1.95	0.65
4:B:1032:ARG:HB2	4:B:1078:PRO:CA	2.27	0.65
5:C:141:ARG:O	5:C:142:ILE:HD13	1.96	0.65
5:C:171:MET:SD	5:C:172:PRO:N	2.69	0.65
6:E:69:TRP:HD1	6:E:93:VAL:CG1	2.09	0.65
6:E:206:ALA:C	6:E:210:ARG:CG	2.70	0.65
8:G:132:GLU:OE2	8:G:139:LEU:N	2.30	0.65
8:G:190:GLY:O	8:G:191:LEU:C	2.38	0.65
8:G:351:LEU:O	8:G:354:ILE:HG22	1.96	0.65
1:1:89:DA:C4	1:1:90:DA:C8	2.85	0.65
1:1:107:DG:C5	1:1:108:DA:C6	2.82	0.65
1:1:117:DG:H1'	1:1:118:DG:C5'	2.26	0.65
2:2:63:DC:H5	9:Y:187:ARG:NH1	1.94	0.65
3:A:59:TYR:HE1	3:A:348:ARG:HG3	1.60	0.65
3:A:185:VAL:HG11	3:A:200:LYS:HE3	1.76	0.65
3:A:344:GLU:O	3:A:347:ILE:HG22	1.96	0.65
3:A:499:GLU:OE2	3:A:500:ASN:N	2.29	0.65
4:B:197:THR:O	4:B:200:LEU:N	2.30	0.65
4:B:388:GLU:CB	4:B:399:PRO:HG2	2.15	0.65
4:B:1151:LYS:HE2	4:B:1169:GLU:CG	2.21	0.65
5:C:38:ASN:O	5:C:41:ARG:N	2.30	0.65
5:D:51:THR:HA	5:D:143:GLU:O	1.97	0.65
6:E:47:TYR:CE1	6:E:48:ARG:CG	2.77	0.65
8:G:114:GLU:HA	8:G:117:ARG:CG	2.26	0.65
1:1:59:DT:C5	1:1:60:DT:O4	2.50	0.65
1:1:73:DA:N1	2:2:53:DT:C2	2.65	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:3:DT:H1'	2:2:4:DG:C5	2.32	0.65
2:2:40:DC:H2"	2:2:41:DC:C6	2.32	0.65
3:A:70:HIS:O	3:A:71:ASN:OD1	2.14	0.65
3:A:88:ASP:HA	3:A:132:GLY:HA3	1.79	0.65
3:A:326:ARG:HB2	3:A:330:GLU:OE2	1.96	0.65
3:A:1077:LEU:CB	3:A:1082:LEU:HD12	2.20	0.65
4:B:21:PHE:O	4:B:22:THR:C	2.40	0.65
4:B:46:ARG:HB3	4:B:46:ARG:CZ	2.20	0.65
4:B:461:GLU:HG2	4:B:474:ALA:O	1.96	0.65
4:B:707:LEU:HB2	4:B:724:TYR:CA	2.20	0.65
5:D:78:ILE:C	5:D:80:MET:N	2.47	0.65
6:E:28:ARG:HE	6:E:102:ARG:CD	2.10	0.65
6:E:124:TYR:O	6:E:128:LEU:HG	1.96	0.65
6:E:550:ILE:CD1	6:E:610:PRO:CB	2.74	0.65
9:X:142:HIS:O	9:X:143:ARG:CG	2.44	0.65
9:Y:35:PHE:CD2	9:Y:92:ALA:CB	2.79	0.65
2:2:49:DT:P	9:X:176:HIS:HE2	2.18	0.65
3:A:426:HIS:O	3:A:429:ARG:N	2.29	0.65
4:B:201:VAL:HG13	4:B:202:ASP:H	1.61	0.65
4:B:303:LEU:HD11	4:B:1137:ALA:HB2	1.77	0.65
4:B:358:LYS:HB3	4:B:391:LYS:HA	1.79	0.65
4:B:726:GLN:CB	4:B:737:LEU:HB3	2.22	0.65
4:B:1252:ASN:ND2	7:F:33:VAL:CG2	2.52	0.65
5:C:224:LEU:HG	5:D:6:ILE:HD11	1.79	0.65
6:E:565:GLU:C	6:E:565:GLU:CD	2.63	0.65
9:X:98:VAL:HG13	9:X:100:LEU:HG	1.77	0.65
1:1:108:DA:N3	1:1:109:DG:N1	2.45	0.65
3:A:185:VAL:HG23	3:A:197:VAL:CA	2.16	0.65
3:A:495:ILE:HD12	3:A:495:ILE:N	2.11	0.65
3:A:697:ASN:HA	3:A:701:ALA:O	1.97	0.65
3:A:1054:ALA:CB	3:A:1059:LYS:HZ3	2.00	0.65
4:B:67:GLU:O	4:B:70:GLU:HB2	1.97	0.65
4:B:144:ARG:CB	4:B:159:ILE:HB	2.25	0.65
4:B:636:THR:N	4:B:784:SER:HB3	2.12	0.65
4:B:1144:ILE:O	4:B:1147:GLN:HB2	1.96	0.65
5:C:51:THR:HA	5:C:143:GLU:O	1.96	0.65
5:C:140:PHE:C	5:C:140:PHE:CD1	2.71	0.65
6:E:577:THR:N	6:E:584:ARG:O	2.30	0.65
8:G:135:GLU:CG	8:G:137:VAL:HG22	2.27	0.65
8:G:340:ARG:NH2	8:G:369:GLU:CB	2.59	0.65
9:X:57:VAL:HA	9:X:63:GLU:CG	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:84:DA:C2	1:1:85:DG:C4	2.85	0.65
1:1:85:DG:H1'	1:1:86:DG:OP2	1.97	0.65
2:2:8:DC:H1'	2:2:9:DC:N4	2.12	0.65
3:A:34:GLN:O	3:A:35:ARG:C	2.36	0.65
3:A:78:LYS:HE2	3:A:78:LYS:HA	1.78	0.65
3:A:374:ILE:C	3:A:376:GLU:N	2.47	0.65
3:A:499:GLU:CD	3:A:500:ASN:N	2.54	0.65
3:A:609:ARG:HH12	3:A:637:TYR:H	1.40	0.65
3:A:688:VAL:HG12	3:A:975:GLY:O	1.95	0.65
3:A:1075:ARG:HD2	6:E:103:MET:HE2	1.78	0.65
4:B:66:LEU:CD1	4:B:143:MET:SD	2.85	0.65
4:B:93:LYS:HA	4:B:96:ASP:H	1.61	0.65
4:B:113:PHE:HD1	4:B:117:ASN:HD21	1.45	0.65
4:B:304:ALA:HB2	6:E:438:ARG:HH21	1.58	0.65
4:B:348:GLN:HG3	4:B:349:VAL:HG23	1.78	0.65
4:B:458:VAL:HG11	4:B:478:GLY:N	2.11	0.65
4:B:500:ASN:OD1	4:B:887:VAL:N	2.27	0.65
4:B:583:GLN:HE22	4:B:799:ILE:HG12	1.62	0.65
4:B:645:LEU:HB2	4:B:662:LYS:HD3	1.79	0.65
4:B:691:LEU:C	4:B:692:LEU:HD12	2.22	0.65
5:C:75:VAL:HG13	5:C:76:LEU:N	2.12	0.65
5:C:108:THR:CG2	5:C:124:THR:N	2.60	0.65
5:D:71:VAL:HA	5:D:130:ILE:HA	1.78	0.65
5:D:79:ILE:O	5:D:80:MET:C	2.29	0.65
6:E:46:ASN:HD21	6:E:48:ARG:HB2	1.62	0.65
6:E:320:GLY:O	6:E:321:ARG:CZ	2.45	0.65
8:G:216:GLN:O	8:G:217:ALA:C	2.38	0.65
9:Y:191:THR:O	9:Y:194:LEU:HB2	1.96	0.65
3:A:48:GLU:HG2	3:A:49:GLU:N	2.10	0.65
3:A:291:VAL:HG12	3:A:292:LEU:N	2.10	0.65
3:A:609:ARG:CB	3:A:609:ARG:HH11	2.10	0.65
3:A:654:LYS:HE2	5:C:77:GLU:CG	2.24	0.65
3:A:1025:LEU:HD13	3:A:1034:LEU:HD12	1.78	0.65
3:A:1072:VAL:O	3:A:1073:LEU:C	2.32	0.65
4:B:89:GLU:HG3	4:B:368:HIS:O	1.96	0.65
4:B:134:ILE:HA	4:B:137:VAL:HG22	1.79	0.65
4:B:453:VAL:HG22	4:B:988:VAL:HG22	1.63	0.65
4:B:604:LEU:CB	4:B:631:TRP:CE3	2.80	0.65
4:B:907:THR:HB	4:B:964:VAL:O	1.97	0.65
4:B:932:ILE:HG22	4:B:933:PHE:H	1.61	0.65
5:D:63:HIS:CD2	5:D:63:HIS:C	2.74	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:28:ARG:NE	6:E:102:ARG:CD	2.56	0.65
6:E:284:ASN:O	6:E:285:ARG:C	2.39	0.65
6:E:368:LEU:HD21	6:E:372:GLN:HB3	1.79	0.65
7:F:29:TYR:O	7:F:30:ARG:C	2.38	0.65
8:G:191:LEU:O	8:G:192:ILE:C	2.35	0.65
9:X:69:LEU:HD11	9:X:73:SER:HB2	1.79	0.65
9:Y:197:LEU:CD1	9:Y:198:ARG:N	2.57	0.65
1:1:88:DA:H5"	1:1:88:DA:C8	2.30	0.64
1:1:90:DA:H1'	1:1:91:DT:H5'	1.78	0.64
1:1:98:DG:H1'	1:1:99:DT:H5'	1.79	0.64
1:1:119:DA:H1'	1:1:120:DT:C2	2.31	0.64
3:A:598:VAL:N	3:A:661:GLU:O	2.30	0.64
3:A:850:ASP:O	3:A:851:LYS:C	2.36	0.64
4:B:359:LEU:CD2	4:B:384:ILE:O	2.41	0.64
4:B:453:VAL:CG2	4:B:482:ILE:HD12	2.27	0.64
4:B:509:VAL:O	4:B:510:LEU:HD12	1.97	0.64
4:B:599:THR:HG23	4:B:633:PRO:HG2	1.79	0.64
4:B:653:TYR:OH	4:B:656:ALA:CB	2.41	0.64
4:B:761:GLN:HA	4:B:764:ARG:O	1.97	0.64
4:B:970:ARG:HB3	4:B:972:TYR:CE1	2.31	0.64
4:B:1173:VAL:HG21	4:B:1190:TYR:HE1	1.61	0.64
5:C:130:ILE:HB	5:C:136:LEU:CD1	2.27	0.64
6:E:124:TYR:HA	6:E:127:ILE:HD12	1.79	0.64
6:E:495:ASN:N	6:E:495:ASN:OD1	2.23	0.64
6:E:496:ASN:C	6:E:497:ILE:HD13	2.22	0.64
6:E:530:GLY:CA	6:E:550:ILE:HA	2.23	0.64
6:E:557:TYR:HB3	6:E:605:TYR:HB3	1.79	0.64
8:G:131:SER:C	8:G:133:TRP:H	2.04	0.64
8:G:345:ASP:N	8:G:345:ASP:OD1	2.25	0.64
1:1:65:DA:H2"	1:1:66:DG:H5"	1.77	0.64
3:A:66:HIS:NE2	3:A:100:ARG:CD	2.53	0.64
3:A:313:SER:O	3:A:313:SER:OG	2.14	0.64
3:A:382:GLN:N	3:A:382:GLN:CD	2.54	0.64
3:A:651:LEU:C	3:A:651:LEU:HD12	2.22	0.64
3:A:959:VAL:O	3:A:959:VAL:HG23	1.96	0.64
4:B:513:THR:CG2	4:B:874:THR:HB	2.26	0.64
4:B:574:LEU:CB	4:B:577:THR:HG22	2.26	0.64
4:B:1016:GLU:O	4:B:1019:GLU:N	2.30	0.64
5:D:38:ASN:O	5:D:41:ARG:N	2.30	0.64
6:E:146:VAL:HG22	6:E:187:GLY:CA	2.26	0.64
8:G:331:PRO:HD3	8:G:334:ARG:NH2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:43:ARG:H	9:Y:105:ILE:HD11	1.61	0.64
9:Y:44:VAL:HG13	9:Y:75:PHE:O	1.97	0.64
2:2:58:DA:H2'	2:2:58:DA:P	2.36	0.64
3:A:46:LEU:N	3:A:46:LEU:HD23	2.08	0.64
3:A:577:GLY:N	3:A:915:LYS:HD2	2.12	0.64
3:A:709:VAL:HG21	3:A:846:ILE:H	1.63	0.64
3:A:1011:GLN:O	3:A:1012:GLN:HB2	1.95	0.64
4:B:93:LYS:HE3	4:B:372:HIS:CE1	2.32	0.64
4:B:147:MET:HG3	4:B:159:ILE:HD13	1.79	0.64
4:B:267:ASP:CG	4:B:268:LEU:N	2.42	0.64
4:B:299:TYR:CZ	4:B:1139:LYS:HD2	2.31	0.64
4:B:538:GLU:HB3	4:B:837:SER:CB	2.28	0.64
4:B:575:ARG:HH11	4:B:590:GLU:HB2	1.61	0.64
4:B:630:LEU:N	4:B:743:GLU:OE1	2.30	0.64
4:B:674:VAL:HA	4:B:684:VAL:HG22	1.79	0.64
4:B:1084:SER:OG	4:B:1084:SER:O	2.14	0.64
4:B:1117:VAL:HG13	4:B:1118:GLN:N	2.11	0.64
4:B:1173:VAL:CG2	4:B:1190:TYR:HE1	2.10	0.64
5:C:107:ILE:CD1	5:C:136:LEU:HD13	2.27	0.64
5:D:88:LYS:N	5:D:121:ILE:HD11	2.11	0.64
6:E:254:PRO:O	6:E:257:ARG:N	2.22	0.64
6:E:350:LEU:HD12	6:E:350:LEU:N	2.09	0.64
6:E:423:ILE:CG2	6:E:424:GLU:N	2.60	0.64
6:E:538:LEU:O	6:E:539:ASP:CG	2.39	0.64
7:F:30:ARG:C	7:F:30:ARG:HH11	2.06	0.64
8:G:249:LEU:HD21	8:G:265:ARG:CD	2.20	0.64
1:1:58:DA:N3	1:1:59:DT:C2	2.65	0.64
1:1:78:DA:H2"	1:1:79:DA:C8	2.31	0.64
3:A:74:LEU:HD23	3:A:95:MET:HA	0.67	0.64
3:A:188:ASP:O	3:A:189:LYS:CG	2.45	0.64
4:B:178:GLY:O	4:B:181:LYS:N	2.31	0.64
4:B:524:ARG:O	4:B:525:LEU:C	2.40	0.64
4:B:844:ILE:O	4:B:844:ILE:HG22	1.97	0.64
4:B:872:ALA:C	4:B:873:ARG:HD2	2.23	0.64
4:B:939:GLN:HE22	4:B:941:VAL:CG2	2.10	0.64
5:D:83:LYS:HZ1	5:D:168:SER:HA	1.62	0.64
6:E:306:LEU:HD23	6:E:307:GLN:N	2.12	0.64
6:E:550:ILE:HD12	6:E:610:PRO:CB	2.26	0.64
6:E:554:ALA:O	6:E:610:PRO:HD3	1.97	0.64
8:G:242:ILE:CG2	8:G:266:MET:HE3	2.21	0.64
1:1:76:DC:OP2	1:1:76:DC:H6	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:108:DA:H1'	1:1:109:DG:C2	2.33	0.64
3:A:271:ARG:N	3:A:290:ARG:NH1	2.46	0.64
3:A:596:GLY:CA	3:A:662:ARG:HH22	2.10	0.64
4:B:80:TYR:CB	4:B:90:ARG:HG2	2.25	0.64
4:B:93:LYS:NZ	4:B:375:ASP:CA	2.61	0.64
4:B:251:PRO:HG2	4:B:254:LYS:NZ	2.12	0.64
4:B:575:ARG:NH1	4:B:590:GLU:HB2	2.12	0.64
4:B:631:TRP:CH2	4:B:782:VAL:HG22	2.33	0.64
4:B:675:THR:HB	4:B:677:LYS:NZ	2.12	0.64
4:B:678:ASN:O	4:B:680:ILE:N	2.30	0.64
4:B:678:ASN:CG	4:B:681:LEU:HA	2.23	0.64
4:B:688:PRO:O	4:B:739:ARG:CG	2.38	0.64
4:B:726:GLN:HG3	4:B:728:VAL:N	2.11	0.64
4:B:1039:VAL:HG13	4:B:1040:TYR:H	1.63	0.64
4:B:1239:VAL:C	4:B:1241:ILE:H	2.05	0.64
5:D:206:PRO:O	5:D:207:GLN:C	2.34	0.64
6:E:420:GLU:H	6:E:420:GLU:CD	1.99	0.64
6:E:479:LEU:O	6:E:480:SER:C	2.39	0.64
6:E:486:GLU:H	6:E:486:GLU:CD	2.03	0.64
7:F:60:ARG:O	7:F:63:ILE:HG13	1.98	0.64
8:G:270:ILE:HG12	8:G:274:ARG:HG3	1.78	0.64
9:Y:56:ARG:HG3	9:Y:57:VAL:N	2.11	0.64
1:1:89:DA:C6	1:1:90:DA:C6	2.86	0.64
3:A:110:LYS:HB3	3:A:361:PRO:HD3	1.79	0.64
3:A:184:TRP:HB3	3:A:193:LEU:CA	2.27	0.64
3:A:206:ASP:HA	3:A:209:ILE:HB	1.78	0.64
3:A:298:LEU:C	3:A:301:VAL:HG22	2.21	0.64
3:A:620:LYS:HG2	3:A:630:GLN:O	1.98	0.64
3:A:723:GLU:HB3	3:A:837:ARG:HD2	1.80	0.64
3:A:734:GLU:C	3:A:735:GLU:CD	2.65	0.64
4:B:16:LEU:HD23	4:B:17:ILE:N	2.12	0.64
4:B:85:ILE:HD12	4:B:372:HIS:CB	2.28	0.64
4:B:356:THR:CG2	4:B:411:TYR:HD2	2.07	0.64
4:B:688:PRO:HG2	4:B:739:ARG:HB3	1.78	0.64
5:C:74:ASP:O	5:C:75:VAL:C	2.40	0.64
8:G:133:TRP:HA	8:G:133:TRP:CE3	2.32	0.64
8:G:287:GLU:O	8:G:287:GLU:HG2	1.95	0.64
8:G:292:LYS:C	8:G:293:GLU:HG2	2.21	0.64
1:1:59:DT:C2	1:1:60:DT:C4	2.85	0.64
1:1:114:DC:H4'	1:1:115:DA:OP1	1.98	0.64
3:A:166:ILE:HG23	3:A:167:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:252:LYS:C	4:B:254:LYS:N	2.49	0.64
4:B:266:ASP:CG	4:B:267:ASP:N	2.54	0.64
4:B:268:LEU:HA	4:B:271:GLU:OE2	1.96	0.64
4:B:384:ILE:CG2	4:B:394:SER:HB3	2.27	0.64
4:B:524:ARG:HB3	4:B:538:GLU:CG	2.27	0.64
4:B:766:ILE:HD13	4:B:799:ILE:HD12	1.76	0.64
4:B:858:GLU:OE2	4:B:869:SER:OG	2.10	0.64
4:B:913:LYS:CB	4:B:915:LYS:HG2	2.27	0.64
4:B:1240:ILE:HG22	4:B:1241:ILE:N	2.13	0.64
5:C:49:GLU:OE2	5:C:146:LYS:HA	1.98	0.64
6:E:511:GLN:O	6:E:512:ASP:C	2.39	0.64
9:X:120:MET:HB2	9:X:124:ARG:HH21	1.62	0.64
2:2:42:DT:H2"	2:2:43:DG:C8	2.33	0.64
2:2:50:DG:H2'	9:X:190:VAL:CG1	2.28	0.64
2:2:50:DG:C1'	2:2:51:DT:H5'	2.23	0.64
3:A:96:TYR:CE2	3:A:115:PHE:HB3	2.33	0.64
3:A:110:LYS:HZ1	3:A:360:THR:CA	2.10	0.64
3:A:139:ASN:OD1	3:A:139:ASN:O	2.16	0.64
3:A:268:ASP:OD1	3:A:269:LEU:N	2.31	0.64
3:A:853:ALA:O	3:A:980:LEU:HB3	1.98	0.64
3:A:1081:GLY:HA2	6:E:17:ALA:HB3	1.80	0.64
3:A:1087:HIS:CB	3:A:1098:LEU:HD23	2.24	0.64
4:B:366:ARG:O	4:B:376:ALA:HA	1.98	0.64
4:B:547:ASP:HB3	4:B:754:SER:O	1.97	0.64
4:B:840:LEU:HD21	4:B:843:ASP:OD2	1.97	0.64
4:B:1227:GLY:O	4:B:1228:LYS:C	2.37	0.64
4:B:1235:LEU:HD22	4:B:1245:ILE:HG23	1.80	0.64
4:B:1237:GLU:C	4:B:1239:VAL:N	2.50	0.64
6:E:386:PRO:O	6:E:388:VAL:N	2.30	0.64
9:Y:216:VAL:HG23	9:Y:217:THR:HB	1.79	0.64
1:1:86:DG:C4	1:1:87:DA:C8	2.86	0.64
1:1:89:DA:C6	2:2:37:DT:O4	2.47	0.64
3:A:46:LEU:HG	3:A:47:ILE:N	2.12	0.64
3:A:272:VAL:HG23	3:A:273:GLY:N	2.10	0.64
3:A:425:SER:HA	3:A:484:GLU:HG2	1.80	0.64
3:A:601:VAL:O	3:A:601:VAL:HG23	1.97	0.64
3:A:717:ILE:C	3:A:718:HIS:ND1	2.56	0.64
3:A:770:VAL:O	3:A:804:LEU:N	2.23	0.64
4:B:86:THR:OG1	4:B:87:GLU:N	2.31	0.64
4:B:240:LEU:HD12	4:B:241:GLY:N	2.13	0.64
4:B:269:ALA:O	4:B:270:LYS:C	2.39	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:384:ILE:HG21	4:B:394:SER:CA	2.27	0.64
4:B:545:VAL:HA	4:B:829:ARG:HB3	1.80	0.64
4:B:856:SER:N	4:B:873:ARG:HD3	2.13	0.64
4:B:1066:GLY:O	4:B:1067:GLN:NE2	2.31	0.64
4:B:1209:SER:O	4:B:1210:ALA:C	2.41	0.64
6:E:224:LEU:O	6:E:225:ILE:C	2.40	0.64
8:G:120:LEU:C	8:G:128:PRO:HD3	2.23	0.64
8:G:313:VAL:O	8:G:314:SER:C	2.39	0.64
8:G:338:ARG:CG	8:G:343:LEU:CB	2.71	0.64
1:1:84:DA:N6	2:2:41:DC:C4	2.66	0.64
1:1:98:DG:C5	1:1:99:DT:O4	2.50	0.64
3:A:198:LEU:HD21	3:A:208:GLU:HB3	1.79	0.64
3:A:251:LEU:O	3:A:252:GLY:C	2.40	0.64
3:A:277:LEU:O	3:A:278:ASN:C	2.40	0.64
3:A:579:GLU:CD	3:A:579:GLU:C	2.62	0.64
3:A:893:MET:HE3	4:B:163:PHE:CE2	2.33	0.64
3:A:1034:LEU:O	3:A:1035:GLN:C	2.38	0.64
4:B:36:LEU:O	4:B:37:LYS:C	2.35	0.64
4:B:638:GLU:OE2	4:B:685:VAL:HG22	1.98	0.64
4:B:936:GLU:OE2	4:B:968:ALA:HA	1.98	0.64
4:B:1032:ARG:HG2	4:B:1033:GLY:N	2.13	0.64
4:B:1050:LYS:HB2	4:B:1061:TYR:CA	2.24	0.64
4:B:1248:GLY:O	4:B:1252:ASN:OD1	2.16	0.64
5:C:57:ARG:CZ	5:C:163:PHE:HA	2.28	0.64
5:D:19:HIS:ND1	5:D:205:SER:HA	2.13	0.64
5:D:75:VAL:HG13	5:D:76:LEU:N	2.12	0.64
6:E:129:LEU:O	6:E:131:MET:HG2	1.98	0.64
6:E:520:LEU:HD23	6:E:521:THR:HA	1.78	0.64
3:A:260:ARG:C	3:A:261:PHE:CD1	2.76	0.63
3:A:271:ARG:CA	3:A:290:ARG:HH22	2.10	0.63
3:A:295:GLY:HA2	3:A:298:LEU:HD21	1.79	0.63
3:A:489:ARG:HB2	3:A:525:ASP:OD2	1.98	0.63
3:A:599:VAL:HG23	3:A:600:TYR:H	1.63	0.63
3:A:658:ARG:C	3:A:659:ILE:HD12	2.23	0.63
3:A:676:GLU:C	3:A:676:GLU:CD	2.62	0.63
3:A:821:THR:HB	3:A:834:MET:HG2	1.80	0.63
4:B:840:LEU:CD1	4:B:843:ASP:OD1	2.46	0.63
4:B:1042:ASP:HB2	4:B:1050:LYS:NZ	2.13	0.63
4:B:1137:ALA:HB3	4:B:1140:HIS:CD2	2.33	0.63
5:D:9:VAL:HG11	5:D:24:ILE:HG12	1.78	0.63
9:X:71:GLU:O	9:X:73:SER:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:61:DT:H2"	1:1:62:DT:H71	1.79	0.63
1:1:106:DG:C8	1:1:106:DG:H5'	2.33	0.63
3:A:53:PHE:CD2	3:A:340:LEU:HB3	2.32	0.63
3:A:113:GLU:C	3:A:113:GLU:CD	2.62	0.63
3:A:532:VAL:O	3:A:532:VAL:HG12	1.98	0.63
3:A:595:ASP:O	3:A:619:GLY:N	2.31	0.63
3:A:600:TYR:CE2	3:A:607:ARG:NH2	2.67	0.63
3:A:897:GLN:HG3	3:A:898:VAL:N	2.11	0.63
3:A:1035:GLN:O	3:A:1036:GLU:C	2.35	0.63
4:B:10:LYS:HZ1	4:B:14:ARG:NH2	1.97	0.63
4:B:72:GLU:OE1	4:B:73:ILE:HG22	1.97	0.63
4:B:87:GLU:HG2	4:B:88:VAL:N	2.13	0.63
4:B:360:PRO:HD2	4:B:393:GLY:C	2.23	0.63
4:B:375:ASP:O	4:B:376:ALA:HB2	1.98	0.63
4:B:479:LEU:HG	4:B:973:ARG:HG2	1.81	0.63
4:B:640:ASN:O	4:B:641:LYS:HG3	1.98	0.63
4:B:983:GLU:OE2	4:B:984:ASP:HB2	1.98	0.63
5:C:216:ILE:O	5:C:217:LEU:C	2.39	0.63
5:D:112:PHE:CE2	5:D:127:VAL:HG21	2.33	0.63
6:E:255:ASP:N	6:E:255:ASP:OD1	2.24	0.63
6:E:363:VAL:HG23	6:E:363:VAL:O	1.98	0.63
6:E:370:ILE:HG23	6:E:457:HIS:NE2	2.12	0.63
6:E:540:ASP:O	6:E:543:MET:N	2.32	0.63
8:G:159:VAL:HG11	8:G:192:ILE:HD13	1.80	0.63
9:X:47:LEU:N	9:X:73:SER:O	2.31	0.63
9:Y:49:LYS:C	9:Y:99:GLU:HB3	2.24	0.63
1:1:78:DA:C4	1:1:79:DA:C8	2.86	0.63
3:A:70:HIS:CE1	3:A:71:ASN:HD21	1.86	0.63
3:A:110:LYS:NZ	3:A:360:THR:HA	2.13	0.63
3:A:294:SER:C	3:A:296:ASP:OD1	2.41	0.63
3:A:532:VAL:HG12	3:A:540:SER:HB2	1.79	0.63
3:A:613:GLN:HG2	3:A:614:LEU:N	2.10	0.63
4:B:4:ARG:H	6:E:616:ASN:ND2	1.94	0.63
4:B:35:LYS:O	4:B:38:ASP:HB3	1.98	0.63
4:B:104:ALA:N	4:B:354:ASP:OD2	2.30	0.63
4:B:457:GLU:CD	4:B:481:TRP:CH2	2.76	0.63
4:B:514:LYS:HZ1	4:B:873:ARG:NH2	1.93	0.63
4:B:523:VAL:O	4:B:524:ARG:C	2.40	0.63
4:B:636:THR:HG21	4:B:783:LYS:HA	1.78	0.63
4:B:1037:LYS:CD	4:B:1052:ILE:HG23	2.18	0.63
4:B:1042:ASP:HB2	4:B:1050:LYS:HZ1	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:200:THR:HG21	5:C:204:ILE:O	1.98	0.63
5:D:51:THR:OG1	5:D:87:LEU:O	2.17	0.63
6:E:401:ILE:O	6:E:402:LYS:C	2.41	0.63
6:E:614:ILE:O	6:E:615:TYR:C	2.40	0.63
9:X:145:MET:SD	9:X:188:VAL:HG21	2.38	0.63
3:A:243:ARG:O	3:A:243:ARG:HD3	1.99	0.63
3:A:435:THR:CG2	3:A:436:PRO:HD2	2.29	0.63
3:A:596:GLY:CA	3:A:615:PRO:HA	2.26	0.63
3:A:727:ARG:NH2	3:A:832:ALA:HB2	2.12	0.63
4:B:86:THR:O	4:B:90:ARG:N	2.28	0.63
4:B:481:TRP:CD1	4:B:970:ARG:C	2.76	0.63
4:B:553:VAL:HG23	4:B:561:ASN:C	2.23	0.63
4:B:753:PRO:O	4:B:754:SER:C	2.41	0.63
4:B:776:TYR:C	4:B:777:LYS:HD2	2.23	0.63
4:B:809:ALA:HB1	4:B:812:LEU:CB	2.23	0.63
4:B:854:GLN:HA	4:B:855:THR:HG23	1.80	0.63
4:B:1107:TYR:O	4:B:1110:ALA:N	2.31	0.63
4:B:1226:GLU:OE2	6:E:233:ASN:ND2	2.31	0.63
5:C:23:PHE:HD2	5:C:196:LEU:HD22	1.64	0.63
5:C:216:ILE:O	5:C:219:ASP:HB2	1.98	0.63
5:C:227:ILE:HD13	5:D:6:ILE:H	1.63	0.63
5:D:72:ARG:HE	6:E:602:ILE:CD1	2.12	0.63
7:F:63:ILE:HD12	7:F:64:GLU:HG2	1.80	0.63
1:1:61:DT:N1	1:1:62:DT:C4	2.66	0.63
2:2:9:DC:C4	2:2:10:DG:C6	2.86	0.63
3:A:332:LEU:O	3:A:333:GLN:C	2.40	0.63
3:A:344:GLU:OE1	3:A:345:ARG:N	2.31	0.63
3:A:417:PHE:O	3:A:420:ARG:N	2.26	0.63
4:B:352:LYS:HE2	4:B:358:LYS:HE3	1.74	0.63
4:B:388:GLU:HB3	4:B:399:PRO:CG	2.17	0.63
4:B:413:VAL:H	4:B:424:LEU:CD2	2.10	0.63
4:B:649:GLU:HB3	4:B:652:GLN:NE2	2.13	0.63
4:B:766:ILE:HG12	4:B:799:ILE:HD13	1.76	0.63
4:B:808:ASN:OD1	4:B:809:ALA:N	2.32	0.63
6:E:129:LEU:HD22	6:E:136:VAL:HG11	1.80	0.63
8:G:88:GLU:C	8:G:88:GLU:CD	2.63	0.63
9:X:108:VAL:HG13	9:X:112:LEU:CD1	2.29	0.63
1:1:74:DT:N3	2:2:53:DT:N3	2.47	0.63
1:1:76:DC:C2	1:1:77:DA:C8	2.87	0.63
1:1:96:DC:C2	1:1:97:DT:C5	2.86	0.63
2:2:37:DT:H1'	2:2:38:DT:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:499:GLU:O	3:A:500:ASN:HB3	1.98	0.63
3:A:604:THR:C	3:A:605:GLU:OE1	2.41	0.63
3:A:990:ILE:C	3:A:991:HIS:ND1	2.57	0.63
3:A:1091:THR:O	3:A:1094:ASP:HA	1.97	0.63
4:B:79:ARG:C	4:B:85:ILE:HG12	2.24	0.63
4:B:110:VAL:O	4:B:111:THR:C	2.41	0.63
4:B:687:LYS:CD	4:B:739:ARG:NH1	2.61	0.63
4:B:1017:LEU:HD12	4:B:1018:LEU:HG	1.80	0.63
4:B:1115:GLN:CG	4:B:1116:LYS:N	2.62	0.63
5:C:25:LEU:HD13	5:C:194:LEU:HB3	1.81	0.63
5:D:47:ASN:N	5:D:47:ASN:OD1	2.19	0.63
6:E:73:CYS:HB3	6:E:89:CYS:CB	2.28	0.63
6:E:206:ALA:CA	6:E:210:ARG:NE	2.62	0.63
6:E:229:ARG:HG3	6:E:230:VAL:H	1.64	0.63
6:E:233:ASN:O	6:E:234:PHE:C	2.37	0.63
8:G:121:SER:HB2	8:G:126:ARG:O	1.98	0.63
8:G:389:ILE:HG22	8:G:389:ILE:O	1.99	0.63
9:Y:69:LEU:HD11	9:Y:73:SER:HB2	1.79	0.63
1:1:75:DA:H2"	1:1:76:DC:OP2	1.98	0.63
1:1:121:DG:H2"	1:1:122:DC:OP2	1.97	0.63
3:A:260:ARG:HH11	3:A:260:ARG:HG3	1.63	0.63
3:A:370:LEU:O	3:A:371:VAL:C	2.42	0.63
3:A:374:ILE:C	3:A:376:GLU:H	2.05	0.63
3:A:455:GLN:HG2	3:A:456:TYR:CD1	2.34	0.63
3:A:791:ILE:HG23	8:G:377:ARG:HG2	1.81	0.63
3:A:1023:TRP:HE3	6:E:436:LEU:CD1	2.09	0.63
4:B:4:ARG:HG2	6:E:565:GLU:CG	2.29	0.63
4:B:26:THR:HG1	4:B:27:ALA:N	1.95	0.63
4:B:525:LEU:O	4:B:526:PRO:C	2.41	0.63
4:B:623:VAL:HG21	4:B:791:LEU:HD11	1.81	0.63
4:B:1040:TYR:O	4:B:1050:LYS:N	2.31	0.63
4:B:1154:ILE:HG12	4:B:1166:GLU:O	1.97	0.63
5:C:76:LEU:O	5:C:79:ILE:N	2.32	0.63
5:C:166:ILE:HG12	5:C:167:ASP:N	2.13	0.63
6:E:402:LYS:HZ2	8:G:390:ARG:HH22	1.46	0.63
6:E:448:LEU:O	6:E:449:VAL:HG23	1.99	0.63
8:G:323:GLU:O	8:G:326:LEU:HG	1.99	0.63
9:X:37:PRO:HD3	9:X:91:HIS:CA	2.28	0.63
1:1:59:DT:C2	1:1:60:DT:N3	2.67	0.63
1:1:60:DT:C6	1:1:61:DT:C7	2.81	0.63
1:1:84:DA:OP2	1:1:84:DA:H8	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:94:DT:H2'	1:1:95:DT:H71	1.81	0.63
1:1:109:DG:N2	1:1:110:DC:H42	1.97	0.63
3:A:188:ASP:CG	3:A:191:ARG:HB2	2.21	0.63
3:A:789:ARG:O	3:A:790:ALA:C	2.42	0.63
4:B:44:ALA:O	4:B:45:THR:C	2.39	0.63
4:B:80:TYR:N	4:B:85:ILE:HD11	2.14	0.63
4:B:195:TYR:O	4:B:196:LEU:C	2.36	0.63
4:B:384:ILE:CG2	4:B:394:SER:CA	2.76	0.63
4:B:453:VAL:CB	4:B:988:VAL:HG13	2.28	0.63
4:B:517:THR:HG23	4:B:869:SER:HB3	1.81	0.63
4:B:606:PHE:HE1	4:B:777:LYS:C	2.06	0.63
4:B:1060:ASP:OD1	4:B:1061:TYR:N	2.31	0.63
5:C:78:ILE:O	5:C:79:ILE:C	2.37	0.63
5:D:68:VAL:HG13	5:D:71:VAL:CG1	2.29	0.63
6:E:47:TYR:HB2	8:G:231:LEU:HD22	1.81	0.63
6:E:216:ALA:HA	6:E:219:GLN:CG	2.26	0.63
6:E:338:ILE:HA	6:E:344:ARG:H	1.63	0.63
6:E:400:ASN:OD1	6:E:403:ALA:CB	2.47	0.63
8:G:81:SER:HB2	8:G:181:GLN:HE22	1.64	0.63
8:G:135:GLU:HG3	8:G:137:VAL:CG2	2.29	0.63
8:G:314:SER:O	8:G:317:LEU:HB2	1.99	0.63
8:G:318:LEU:HD21	8:G:322:LEU:HD12	1.79	0.63
8:G:338:ARG:CG	8:G:343:LEU:CD2	2.77	0.63
8:G:351:LEU:HA	8:G:354:ILE:HG21	1.79	0.63
9:X:189:THR:O	9:X:193:LEU:HB2	1.99	0.63
1:1:58:DA:C6	2:2:68:DT:O4	2.51	0.63
1:1:119:DA:N1	2:2:7:DT:O4	2.31	0.63
2:2:31:DA:H2'	2:2:31:DA:N3	2.14	0.63
3:A:77:PRO:HB3	3:A:121:LEU:HD21	1.79	0.63
3:A:755:GLY:O	3:A:770:VAL:HA	1.98	0.63
3:A:1001:VAL:HG13	3:A:1002:THR:HB	1.80	0.63
4:B:562:TYR:C	4:B:574:LEU:HD11	2.23	0.63
4:B:614:LYS:HZ1	4:B:621:TYR:CA	2.09	0.63
4:B:853:THR:HA	4:B:874:THR:HG23	1.79	0.63
4:B:906:ALA:C	4:B:966:ILE:H	2.03	0.63
4:B:1078:PRO:C	4:B:1100:LEU:HD11	2.24	0.63
4:B:1239:VAL:C	4:B:1241:ILE:N	2.51	0.63
5:C:77:GLU:C	5:C:77:GLU:CD	2.65	0.63
5:C:186:ASP:HA	5:C:190:PRO:CA	2.29	0.63
5:C:194:LEU:HD23	5:C:195:LEU:N	2.13	0.63
5:D:41:ARG:O	5:D:42:ARG:C	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:74:ASP:O	5:D:75:VAL:C	2.40	0.63
5:D:77:GLU:C	5:D:77:GLU:CD	2.65	0.63
6:E:206:ALA:HB1	6:E:210:ARG:HE	1.64	0.63
6:E:267:PHE:HD2	8:G:281:GLN:HE21	1.46	0.63
6:E:514:VAL:O	6:E:517:ALA:N	2.31	0.63
6:E:594:ARG:HH11	6:E:603:SER:HB2	1.57	0.63
9:X:47:LEU:HD12	9:X:100:LEU:HD23	1.79	0.63
9:Y:71:GLU:O	9:Y:73:SER:N	2.31	0.63
3:A:39:ARG:O	3:A:43:GLU:OE1	2.16	0.62
3:A:490:VAL:H	3:A:510:VAL:CG2	2.12	0.62
3:A:591:VAL:HA	3:A:668:VAL:HA	1.81	0.62
4:B:180:ARG:O	4:B:181:LYS:C	2.39	0.62
4:B:207:VAL:HG11	4:B:294:VAL:HG12	1.81	0.62
4:B:260:ARG:O	4:B:261:ASN:C	2.41	0.62
4:B:463:LYS:HZ1	4:B:466:ARG:N	1.97	0.62
4:B:505:GLU:OE1	4:B:506:THR:N	2.32	0.62
4:B:520:GLY:C	4:B:764:ARG:HH21	2.03	0.62
4:B:573:ASN:HA	4:B:574:LEU:HD12	1.80	0.62
4:B:797:LEU:HB3	4:B:832:LEU:CD2	2.28	0.62
4:B:982:ILE:HD13	4:B:994:LEU:CD2	2.29	0.62
4:B:1114:LEU:O	4:B:1115:GLN:C	2.38	0.62
4:B:1129:TYR:HB3	4:B:1134:ILE:O	1.98	0.62
5:D:173:VAL:HG13	5:D:173:VAL:O	1.98	0.62
6:E:94:THR:OG1	6:E:98:VAL:CG2	2.45	0.62
6:E:295:PRO:O	6:E:296:GLU:C	2.42	0.62
7:F:25:ALA:HB3	7:F:31:ILE:HD11	1.80	0.62
8:G:290:ILE:HD11	8:G:295:ASP:OD1	1.99	0.62
8:G:312:GLN:O	8:G:315:LYS:HB2	1.99	0.62
9:X:130:ILE:CD1	9:Y:130:ILE:HG23	2.29	0.62
1:1:105:DG:N7	8:G:164:ARG:HD3	2.13	0.62
3:A:110:LYS:HE2	3:A:360:THR:HA	1.81	0.62
3:A:153:ILE:HD13	3:A:159:ARG:HG3	1.81	0.62
3:A:208:GLU:O	3:A:216:PRO:HB3	1.99	0.62
3:A:277:LEU:O	3:A:280:LYS:N	2.32	0.62
3:A:590:ILE:HG22	3:A:670:ALA:H	1.63	0.62
3:A:735:GLU:HA	3:A:772:LYS:CG	2.27	0.62
3:A:993:ARG:HH11	6:E:355:ASP:HB3	1.63	0.62
3:A:1017:PHE:CZ	3:A:1025:LEU:CD1	2.73	0.62
4:B:124:MET:SD	6:E:515:LEU:HD13	2.39	0.62
4:B:252:LYS:NZ	4:B:255:GLU:OE1	2.32	0.62
4:B:390:ARG:NH1	4:B:396:THR:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:505:GLU:HG3	4:B:508:GLY:HA2	1.80	0.62
4:B:571:VAL:O	4:B:591:LEU:HA	1.99	0.62
4:B:1088:SER:CB	4:B:1093:ILE:HG23	2.30	0.62
5:C:119:GLU:N	5:C:119:GLU:CD	2.57	0.62
5:C:173:VAL:O	5:C:173:VAL:HG13	1.99	0.62
5:C:217:LEU:O	5:C:218:VAL:C	2.40	0.62
5:D:219:ASP:O	5:D:223:PRO:HD2	1.99	0.62
6:E:245:VAL:HG22	6:E:246:MET:N	2.13	0.62
6:E:419:LEU:O	6:E:421:GLU:N	2.32	0.62
9:Y:62:GLU:OE1	9:Y:64:ILE:HG13	1.99	0.62
9:Y:143:ARG:CA	9:Y:148:ARG:HH21	2.11	0.62
2:2:50:DG:OP2	9:X:190:VAL:CG1	2.47	0.62
2:2:59:DG:H3'	2:2:60:DC:C6	2.34	0.62
3:A:32:GLU:O	3:A:34:GLN:N	2.32	0.62
3:A:46:LEU:O	3:A:47:ILE:C	2.41	0.62
3:A:62:LYS:HA	3:A:104:LYS:HB2	1.81	0.62
3:A:493:GLY:CA	3:A:528:ALA:HB3	2.29	0.62
3:A:559:MET:O	3:A:560:GLN:C	2.29	0.62
3:A:608:VAL:O	3:A:615:PRO:HB2	1.99	0.62
4:B:86:THR:OG1	4:B:87:GLU:OE1	2.17	0.62
4:B:89:GLU:CB	4:B:371:ARG:HB2	2.28	0.62
4:B:484:SER:HB3	4:B:904:ASP:O	1.99	0.62
4:B:564:ILE:HB	4:B:572:PHE:O	2.00	0.62
4:B:768:MET:HA	4:B:797:LEU:HD22	1.81	0.62
4:B:939:GLN:C	4:B:967:ARG:H	2.03	0.62
4:B:988:VAL:HG11	4:B:994:LEU:CD1	2.25	0.62
4:B:1042:ASP:H	4:B:1050:LYS:HZ2	1.47	0.62
5:C:98:ARG:HA	5:C:139:GLU:CB	2.29	0.62
5:C:216:ILE:O	5:C:219:ASP:HB3	2.00	0.62
5:D:118:VAL:HG11	5:D:142:ILE:HG13	1.80	0.62
5:D:200:THR:HG21	5:D:204:ILE:O	1.98	0.62
6:E:73:CYS:HB3	6:E:89:CYS:HB2	1.80	0.62
8:G:89:ILE:O	8:G:90:GLY:C	2.40	0.62
8:G:209:TYR:O	8:G:212:TRP:HB2	1.99	0.62
8:G:322:LEU:HD23	8:G:322:LEU:C	2.24	0.62
1:1:78:DA:C2	1:1:79:DA:C4	2.88	0.62
3:A:59:TYR:H	3:A:352:THR:CG2	2.07	0.62
3:A:97:VAL:N	3:A:114:VAL:O	2.24	0.62
3:A:335:GLN:O	3:A:338:VAL:HG22	2.00	0.62
3:A:598:VAL:CA	3:A:615:PRO:HB3	2.28	0.62
3:A:683:GLY:O	3:A:978:TYR:OH	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:736:ILE:CD1	3:A:772:LYS:CD	2.73	0.62
3:A:848:VAL:HA	3:A:862:ILE:CG2	2.29	0.62
4:B:250:HIS:HE1	4:B:252:LYS:HA	1.63	0.62
4:B:522:VAL:HB	4:B:862:GLY:CA	2.29	0.62
4:B:806:GLU:HG3	4:B:807:HIS:N	2.13	0.62
5:C:38:ASN:O	5:C:39:ALA:C	2.42	0.62
5:C:51:THR:OG1	5:C:87:LEU:O	2.17	0.62
5:C:68:VAL:HG13	5:C:71:VAL:CG1	2.29	0.62
6:E:257:ARG:HE	6:E:273:ASN:CG	2.07	0.62
6:E:370:ILE:CG2	6:E:457:HIS:CG	2.81	0.62
6:E:618:ALA:O	6:E:619:ILE:C	2.38	0.62
8:G:193:ARG:O	8:G:196:GLU:HG3	1.99	0.62
8:G:295:ASP:OD1	8:G:295:ASP:N	2.26	0.62
8:G:331:PRO:HA	8:G:334:ARG:HD2	1.80	0.62
9:X:168:ILE:O	9:X:212:VAL:HB	1.99	0.62
9:Y:57:VAL:CG2	9:Y:63:GLU:HG2	2.30	0.62
9:Y:214:LYS:HD3	9:Y:217:THR:HG23	1.80	0.62
2:2:7:DT:H2"	2:2:8:DC:C6	2.34	0.62
3:A:236:MET:HB2	3:A:240:ARG:NH1	2.13	0.62
3:A:341:ASN:O	3:A:342:ARG:C	2.43	0.62
3:A:344:GLU:O	3:A:345:ARG:C	2.42	0.62
3:A:734:GLU:HG2	3:A:772:LYS:HZ1	1.64	0.62
3:A:893:MET:CE	4:B:163:PHE:CD2	2.81	0.62
3:A:898:VAL:O	3:A:899:PHE:C	2.33	0.62
4:B:28:ARG:O	4:B:31:VAL:N	2.32	0.62
4:B:37:LYS:O	4:B:38:ASP:C	2.39	0.62
4:B:252:LYS:HD2	4:B:254:LYS:O	1.99	0.62
4:B:450:ALA:HB1	4:B:487:VAL:HG12	1.81	0.62
4:B:453:VAL:CG2	4:B:988:VAL:H	2.11	0.62
4:B:611:VAL:HG22	4:B:623:VAL:HA	1.81	0.62
4:B:726:GLN:CG	4:B:728:VAL:O	2.48	0.62
4:B:766:ILE:CG1	4:B:799:ILE:CD1	2.39	0.62
4:B:895:ARG:O	4:B:896:ARG:HG3	1.98	0.62
4:B:1159:ASP:OD2	4:B:1180:MET:HE1	1.99	0.62
4:B:1173:VAL:HG22	4:B:1190:TYR:CZ	2.35	0.62
5:C:30:ARG:HH22	5:D:147:GLY:HA3	1.64	0.62
5:C:82:MET:O	5:C:85:VAL:HG13	1.99	0.62
5:D:62:SER:HG	5:D:63:HIS:CG	2.13	0.62
5:D:63:HIS:HA	5:D:164:LEU:CD1	2.29	0.62
6:E:255:ASP:OD1	6:E:256:LEU:HD12	2.00	0.62
8:G:90:GLY:C	8:G:92:ILE:H	2.08	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:131:SER:N	8:G:134:ALA:H	1.94	0.62
1:1:70:DC:H2"	1:1:71:DT:H71	1.81	0.62
1:1:106:DG:C5	1:1:107:DG:C6	2.87	0.62
3:A:103:ASN:OD1	3:A:108:ASP:N	2.32	0.62
3:A:285:VAL:O	3:A:287:ASP:HB2	2.00	0.62
3:A:296:ASP:OD1	3:A:296:ASP:N	2.26	0.62
3:A:1044:ASP:HB2	3:A:1047:GLY:HA3	1.81	0.62
3:A:1077:LEU:O	3:A:1080:LEU:N	2.32	0.62
3:A:1078:GLN:C	3:A:1080:LEU:H	2.08	0.62
4:B:89:GLU:C	4:B:370:THR:HA	2.24	0.62
4:B:96:ASP:CB	4:B:423:LEU:H	2.12	0.62
4:B:514:LYS:HZ3	4:B:873:ARG:NH1	1.98	0.62
4:B:908:LEU:HD22	4:B:966:ILE:HG21	1.79	0.62
5:D:148:TYR:CZ	5:D:171:MET:HA	2.35	0.62
6:E:52:PRO:O	6:E:53:GLU:C	2.42	0.62
6:E:228:LEU:N	6:E:228:LEU:HD22	2.14	0.62
6:E:234:PHE:HB3	6:E:239:SER:O	1.99	0.62
6:E:533:LYS:HG3	6:E:550:ILE:HG22	1.79	0.62
7:F:17:ARG:CZ	7:F:67:ASP:OD2	2.46	0.62
8:G:129:ARG:N	8:G:134:ALA:HA	2.14	0.62
8:G:249:LEU:CG	8:G:262:ILE:HD12	2.27	0.62
8:G:287:GLU:HB2	8:G:297:ARG:CB	2.29	0.62
9:Y:43:ARG:CD	9:Y:105:ILE:HA	2.29	0.62
1:1:75:DA:N6	2:2:52:DA:C6	2.68	0.62
1:1:119:DA:C2	2:2:6:DA:C4	2.86	0.62
2:2:43:DG:N2	2:2:44:DA:C2	2.67	0.62
3:A:151:SER:HB3	3:A:161:TYR:HD1	1.64	0.62
3:A:229:PHE:O	3:A:233:GLU:HB2	2.00	0.62
3:A:453:VAL:HG12	3:A:459:LEU:HD22	1.80	0.62
3:A:609:ARG:HB2	3:A:636:ARG:N	2.15	0.62
3:A:609:ARG:C	3:A:635:ILE:HG13	2.25	0.62
3:A:743:VAL:HG12	3:A:747:ALA:HB1	1.81	0.62
3:A:940:ARG:HE	3:A:946:ASP:HA	1.65	0.62
4:B:103:GLU:CB	4:B:424:LEU:HD12	2.29	0.62
4:B:149:ASP:OD2	4:B:153:GLU:HB3	2.00	0.62
4:B:223:ARG:HB3	4:B:224:PRO:HD2	1.81	0.62
4:B:623:VAL:HG22	4:B:772:GLN:HB2	1.80	0.62
4:B:816:ILE:N	4:B:833:VAL:O	2.32	0.62
4:B:1082:PRO:HB3	4:B:1088:SER:CB	2.28	0.62
4:B:1210:ALA:O	4:B:1211:ALA:C	2.42	0.62
4:B:1239:VAL:CG1	4:B:1240:ILE:N	2.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:55:ALA:HB3	5:C:141:ARG:CD	2.29	0.62
5:D:76:LEU:O	5:D:79:ILE:N	2.32	0.62
5:D:166:ILE:HG12	5:D:167:ASP:N	2.13	0.62
5:D:216:ILE:O	5:D:217:LEU:C	2.39	0.62
6:E:217:LYS:O	6:E:221:ARG:NH1	2.33	0.62
6:E:571:THR:OG1	6:E:572:GLU:OE1	2.16	0.62
8:G:322:LEU:HA	8:G:325:VAL:HG12	1.81	0.62
9:X:115:ASN:OD1	9:X:118:LEU:HG	1.99	0.62
9:Y:57:VAL:HB	9:Y:91:HIS:N	2.13	0.62
1:1:62:DT:OP2	1:1:62:DT:H6	1.82	0.62
1:1:84:DA:C2	2:2:42:DT:C5	2.87	0.62
3:A:435:THR:HG21	3:A:442:GLY:H	1.64	0.62
3:A:488:LEU:HG	3:A:525:ASP:OD2	2.00	0.62
3:A:492:PRO:C	3:A:494:ASP:H	2.07	0.62
3:A:684:GLN:O	3:A:978:TYR:HA	2.00	0.62
3:A:1025:LEU:HD13	3:A:1034:LEU:CD1	2.30	0.62
4:B:64:SER:HA	4:B:67:GLU:OE2	1.99	0.62
4:B:189:ARG:CZ	4:B:330:LEU:O	2.48	0.62
4:B:536:GLU:OE1	4:B:536:GLU:N	2.33	0.62
4:B:575:ARG:CZ	4:B:575:ARG:HA	2.30	0.62
4:B:616:LYS:CG	4:B:619:LEU:O	2.45	0.62
4:B:681:LEU:CD1	4:B:683:GLU:H	2.13	0.62
5:C:148:TYR:CA	5:C:169:ILE:HA	2.20	0.62
5:D:82:MET:O	5:D:85:VAL:HG13	1.99	0.62
5:D:184:ARG:HA	5:D:186:ASP:OD1	2.00	0.62
5:D:194:LEU:HD23	5:D:195:LEU:N	2.13	0.62
6:E:202:LEU:HD21	6:E:235:ILE:HG22	1.80	0.62
6:E:220:LYS:CD	6:E:223:LYS:HE3	2.28	0.62
6:E:517:ALA:O	6:E:521:THR:HG22	2.00	0.62
8:G:124:LEU:C	8:G:126:ARG:N	2.57	0.62
8:G:249:LEU:HD22	8:G:265:ARG:NH1	2.14	0.62
9:X:47:LEU:HD11	9:X:52:VAL:CG2	2.22	0.62
9:X:52:VAL:HG22	9:X:98:VAL:HA	1.82	0.62
9:Y:168:ILE:O	9:Y:212:VAL:HB	1.99	0.62
2:2:64:DA:H2"	2:2:65:DA:N7	2.13	0.62
3:A:220:GLN:HG2	3:A:221:LYS:N	2.15	0.62
3:A:608:VAL:HA	3:A:615:PRO:HG3	1.80	0.62
3:A:613:GLN:CG	3:A:614:LEU:H	2.10	0.62
4:B:90:ARG:HD2	4:B:91:PHE:N	2.15	0.62
4:B:95:ILE:HG23	4:B:96:ASP:OD1	2.00	0.62
4:B:97:THR:HA	4:B:422:GLN:HG2	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:359:LEU:O	4:B:390:ARG:HB3	2.00	0.62
4:B:462:GLN:CA	4:B:472:THR:HG21	2.29	0.62
4:B:713:GLU:HB2	4:B:717:GLN:N	2.14	0.62
4:B:1101:GLY:O	4:B:1109:CYS:HB2	2.00	0.62
4:B:1221:THR:O	4:B:1224:ALA:HB3	2.00	0.62
6:E:533:LYS:CB	6:E:556:VAL:HG13	2.29	0.62
6:E:564:VAL:HG12	6:E:565:GLU:O	1.99	0.62
8:G:284:ILE:N	8:G:284:ILE:HD12	2.15	0.62
9:Y:53:LYS:CD	9:Y:68:LEU:CD2	2.77	0.62
1:1:101:DT:N3	1:1:102:DA:C5	2.67	0.62
3:A:35:ARG:O	3:A:36:SER:C	2.36	0.62
3:A:180:ASN:CG	3:A:182:LEU:HB3	2.25	0.62
3:A:300:ALA:O	3:A:301:VAL:C	2.40	0.62
3:A:545:LEU:C	3:A:547:HIS:H	2.05	0.62
4:B:232:LEU:N	4:B:232:LEU:HD22	2.14	0.62
4:B:244:VAL:HG22	4:B:262:THR:H	1.65	0.62
4:B:282:VAL:O	4:B:283:ARG:C	2.43	0.62
4:B:325:GLU:O	4:B:326:PRO:C	2.42	0.62
4:B:604:LEU:HD13	4:B:631:TRP:HE3	1.65	0.62
4:B:1045:GLU:OE1	4:B:1046:ALA:N	2.32	0.62
4:B:1154:ILE:HG23	4:B:1188:ALA:HB1	1.82	0.62
5:C:221:PHE:O	5:C:222:ASN:C	2.43	0.62
6:E:303:LYS:O	6:E:305:MET:N	2.32	0.62
6:E:546:GLN:CD	6:E:546:GLN:H	2.05	0.62
6:E:568:GLN:O	6:E:569:PRO:C	2.41	0.62
8:G:132:GLU:N	8:G:141:LEU:HD13	2.15	0.62
8:G:162:ASN:O	8:G:163:LEU:CG	2.43	0.62
8:G:199:ASP:OD2	8:G:201:GLU:HB2	1.99	0.62
8:G:313:VAL:HG13	8:G:314:SER:H	1.63	0.62
8:G:319:ARG:O	8:G:322:LEU:HB3	2.00	0.62
9:Y:48:LEU:N	9:Y:99:GLU:O	2.33	0.62
3:A:430:ILE:O	3:A:431:CYS:C	2.37	0.61
3:A:598:VAL:HG13	3:A:660:GLY:H	1.65	0.61
3:A:609:ARG:HA	3:A:635:ILE:HG13	1.82	0.61
3:A:616:THR:HG1	3:A:633:GLN:CD	2.06	0.61
3:A:670:ALA:C	3:A:671:ASP:OD1	2.42	0.61
3:A:876:ASP:C	5:C:177:ASN:HD21	2.08	0.61
4:B:89:GLU:O	4:B:90:ARG:C	2.42	0.61
4:B:99:ASN:HB3	4:B:423:LEU:CA	2.29	0.61
4:B:208:ILE:HG22	4:B:209:ILE:N	2.13	0.61
4:B:251:PRO:C	4:B:253:THR:H	2.07	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:510:LEU:H	4:B:875:GLN:NE2	1.98	0.61
4:B:535:ARG:HG2	4:B:840:LEU:HD23	1.81	0.61
4:B:579:GLY:H	4:B:817:GLU:HB3	1.64	0.61
4:B:842:ARG:CD	4:B:845:ALA:CB	2.66	0.61
4:B:1091:HIS:ND1	4:B:1092:GLU:N	2.47	0.61
5:D:72:ARG:HB3	5:D:73:GLU:OE1	2.00	0.61
5:D:216:ILE:O	5:D:219:ASP:HB3	2.00	0.61
6:E:64:GLY:O	6:E:99:ARG:HD2	2.00	0.61
6:E:129:LEU:CD2	6:E:193:LEU:HD11	2.19	0.61
6:E:301:ASN:O	6:E:302:GLU:C	2.42	0.61
6:E:516:GLY:O	6:E:517:ALA:C	2.38	0.61
6:E:555:TYR:O	6:E:556:VAL:HG23	2.00	0.61
6:E:571:THR:OG1	6:E:572:GLU:N	2.19	0.61
8:G:93:ARG:HD2	8:G:93:ARG:C	2.24	0.61
1:1:72:DT:H2"	1:1:73:DA:H5'	1.81	0.61
1:1:96:DC:H2"	1:1:97:DT:H71	1.82	0.61
1:1:103:DA:H5'	1:1:103:DA:C8	2.35	0.61
1:1:103:DA:H2"	8:G:165:LEU:HD11	1.82	0.61
1:1:119:DA:H2	2:2:7:DT:C2	2.17	0.61
2:2:40:DC:H2"	2:2:41:DC:H6	1.64	0.61
3:A:82:GLU:O	3:A:83:GLU:C	2.43	0.61
3:A:347:ILE:O	3:A:348:ARG:C	2.43	0.61
3:A:675:THR:O	3:A:675:THR:OG1	2.13	0.61
4:B:117:ASN:HB3	4:B:120:ASN:HB3	1.82	0.61
4:B:193:SER:O	4:B:194:GLY:C	2.44	0.61
4:B:304:ALA:HA	6:E:500:PRO:CA	2.29	0.61
4:B:324:GLY:O	4:B:325:GLU:C	2.40	0.61
4:B:437:ASN:O	4:B:1003:LYS:HG2	2.00	0.61
5:D:156:GLU:H	5:D:157:GLU:CD	2.08	0.61
6:E:437:HIS:CE1	6:E:439:LEU:HB2	2.34	0.61
8:G:338:ARG:CG	8:G:343:LEU:HB3	2.31	0.61
8:G:343:LEU:O	8:G:344:ASP:CG	2.42	0.61
9:X:95:PHE:CE2	9:X:96:THR:HB	2.35	0.61
9:Y:197:LEU:HD12	9:Y:198:ARG:CG	2.25	0.61
3:A:36:SER:O	3:A:37:SER:C	2.40	0.61
3:A:513:ARG:HD3	3:A:513:ARG:N	2.14	0.61
3:A:866:LEU:HB3	3:A:870:ASP:OD1	1.99	0.61
4:B:45:THR:O	4:B:46:ARG:C	2.39	0.61
4:B:89:GLU:C	4:B:370:THR:O	2.43	0.61
4:B:93:LYS:HZ3	4:B:376:ALA:H	0.65	0.61
4:B:564:ILE:HG13	4:B:830:LEU:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:656:ALA:C	4:B:668:ASN:CG	2.68	0.61
4:B:1078:PRO:O	4:B:1100:LEU:HD12	1.99	0.61
5:D:78:ILE:O	5:D:79:ILE:C	2.37	0.61
6:E:112:VAL:HG21	6:E:310:VAL:HG21	1.82	0.61
6:E:520:LEU:HD21	6:E:611:GLY:HA3	1.82	0.61
9:X:108:VAL:HA	9:X:112:LEU:HB2	1.82	0.61
1:1:79:DA:C8	1:1:80:DA:C2	2.88	0.61
3:A:207:ASN:O	3:A:211:ASP:HB2	2.00	0.61
3:A:272:VAL:O	3:A:273:GLY:C	2.44	0.61
3:A:493:GLY:HA3	3:A:528:ALA:HB3	1.81	0.61
3:A:503:ILE:HG22	3:A:504:ILE:H	1.66	0.61
3:A:591:VAL:O	3:A:592:SER:C	2.42	0.61
3:A:791:ILE:HG12	8:G:376:LEU:HD11	1.81	0.61
3:A:889:VAL:HG22	4:B:140:LEU:HD21	1.82	0.61
4:B:79:ARG:HB3	4:B:84:GLU:HB2	1.83	0.61
4:B:91:PHE:CE1	4:B:156:ASP:HB2	2.36	0.61
4:B:107:ASP:HB3	4:B:354:ASP:N	2.16	0.61
4:B:447:SER:HB3	4:B:991:GLY:H	1.65	0.61
4:B:457:GLU:OE2	4:B:481:TRP:CH2	2.53	0.61
4:B:544:VAL:HG21	4:B:832:LEU:CB	2.30	0.61
4:B:687:LYS:HD2	4:B:739:ARG:NH1	2.14	0.61
4:B:792:ARG:HD3	4:B:793:THR:H	1.66	0.61
4:B:816:ILE:HG13	4:B:833:VAL:CG2	2.11	0.61
4:B:1222:GLU:O	4:B:1226:GLU:OE1	2.17	0.61
5:C:77:GLU:O	5:C:81:ARG:N	2.31	0.61
5:C:101:VAL:CG1	5:C:136:LEU:CD1	2.78	0.61
5:C:179:SER:HG	5:C:180:VAL:H	1.41	0.61
5:D:98:ARG:HA	5:D:139:GLU:CB	2.29	0.61
5:D:216:ILE:O	5:D:219:ASP:HB2	1.98	0.61
6:E:138:GLN:OE1	6:E:138:GLN:N	2.33	0.61
7:F:59:LEU:HD22	7:F:59:LEU:N	2.15	0.61
8:G:214:ILE:O	8:G:217:ALA:N	2.32	0.61
1:1:85:DG:N2	2:2:41:DC:O2	2.34	0.61
1:1:88:DA:H8	1:1:88:DA:C5'	2.12	0.61
3:A:180:ASN:CG	3:A:182:LEU:N	2.59	0.61
3:A:224:GLU:O	3:A:226:GLU:OE1	2.18	0.61
3:A:252:GLY:O	3:A:254:GLN:N	2.32	0.61
3:A:423:HIS:C	3:A:423:HIS:ND1	2.58	0.61
3:A:440:ASN:O	3:A:441:ALA:C	2.44	0.61
3:A:583:ALA:O	3:A:585:ASP:N	2.34	0.61
3:A:606:ILE:H	3:A:609:ARG:HE	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:868:ILE:O	3:A:868:ILE:HG12	2.01	0.61
3:A:956:LYS:HB3	3:A:971:PRO:HB2	1.82	0.61
3:A:1049:ASN:O	3:A:1052:LEU:N	2.33	0.61
4:B:84:GLU:OE1	4:B:84:GLU:N	2.29	0.61
4:B:285:PRO:HD3	4:B:298:CYS:O	2.01	0.61
4:B:544:VAL:HG21	4:B:832:LEU:HB2	1.80	0.61
4:B:631:TRP:O	4:B:741:VAL:HA	2.00	0.61
4:B:655:GLU:HG3	4:B:657:GLY:H	1.65	0.61
4:B:725:ILE:HG12	4:B:736:LEU:HD23	1.81	0.61
4:B:916:VAL:H	4:B:943:VAL:HG11	1.62	0.61
5:C:119:GLU:HG2	5:C:120:VAL:O	2.01	0.61
6:E:154:GLU:HB2	6:E:182:GLN:HB3	1.82	0.61
6:E:400:ASN:OD1	6:E:400:ASN:C	2.39	0.61
7:F:36:ALA:O	7:F:39:ALA:N	2.33	0.61
8:G:111:LEU:HD23	8:G:112:GLU:N	2.14	0.61
8:G:120:LEU:HG	8:G:124:LEU:HD21	1.82	0.61
9:X:47:LEU:CA	9:X:100:LEU:CD2	2.66	0.61
9:Y:157:CYS:HA	9:Y:161:GLY:CA	2.29	0.61
1:1:86:DG:C1'	1:1:87:DA:H5'	2.30	0.61
1:1:92:DT:N3	1:1:93:DT:C4	2.69	0.61
1:1:112:DG:H3'	3:A:414:ARG:NH1	2.14	0.61
3:A:101:LEU:CB	3:A:109:ILE:HG22	2.31	0.61
3:A:154:ASP:OD1	3:A:154:ASP:N	2.32	0.61
3:A:184:TRP:CD2	3:A:193:LEU:HD11	2.34	0.61
3:A:524:VAL:HG12	3:A:525:ASP:N	2.16	0.61
3:A:597:ASP:H	3:A:614:LEU:C	2.08	0.61
4:B:103:GLU:OE1	4:B:354:ASP:HB2	2.00	0.61
4:B:220:ILE:H	4:B:281:VAL:HG13	1.65	0.61
4:B:222:VAL:O	4:B:223:ARG:HG3	2.01	0.61
4:B:614:LYS:NZ	4:B:621:TYR:HA	2.10	0.61
4:B:807:HIS:O	4:B:807:HIS:CG	2.52	0.61
4:B:1123:ASN:OD1	4:B:1123:ASN:N	2.27	0.61
8:G:288:THR:HG23	8:G:288:THR:O	1.99	0.61
8:G:380:ASN:H	8:G:383:SER:HB2	1.65	0.61
1:1:85:DG:H1'	1:1:86:DG:C5'	2.23	0.61
1:1:99:DT:C6	8:G:212:TRP:CE3	2.89	0.61
1:1:108:DA:N3	1:1:109:DG:N2	2.48	0.61
2:2:31:DA:N3	2:2:31:DA:C2'	2.61	0.61
3:A:31:ILE:C	3:A:33:ILE:N	2.55	0.61
3:A:41:PHE:O	3:A:42:LEU:C	2.43	0.61
4:B:72:GLU:HA	4:B:418:VAL:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:89:GLU:HA	4:B:369:ARG:O	1.99	0.61
4:B:96:ASP:HB3	4:B:423:LEU:H	1.66	0.61
4:B:103:GLU:O	4:B:106:LYS:N	2.34	0.61
4:B:144:ARG:NH2	4:B:163:PHE:HE2	1.99	0.61
4:B:251:PRO:O	4:B:253:THR:N	2.34	0.61
4:B:478:GLY:O	4:B:974:VAL:N	2.27	0.61
4:B:519:HIS:O	4:B:865:ILE:CG2	2.44	0.61
4:B:553:VAL:HG23	4:B:561:ASN:N	2.14	0.61
4:B:766:ILE:CB	4:B:799:ILE:CD1	2.78	0.61
4:B:799:ILE:HG22	4:B:807:HIS:NE2	2.16	0.61
4:B:982:ILE:CD1	4:B:994:LEU:HD23	2.29	0.61
5:C:38:ASN:C	5:C:38:ASN:OD1	2.44	0.61
5:C:101:VAL:CB	5:C:136:LEU:CD1	2.74	0.61
5:D:57:ARG:CZ	5:D:163:PHE:HA	2.31	0.61
8:G:215:ARG:O	8:G:216:GLN:C	2.41	0.61
8:G:373:LEU:HB3	8:G:377:ARG:HE	1.65	0.61
9:X:33:THR:CG2	9:X:91:HIS:HE1	1.98	0.61
1:1:75:DA:H1'	1:1:76:DC:O5'	2.01	0.61
1:1:97:DT:H2'	1:1:97:DT:O5'	1.99	0.61
1:1:119:DA:N6	2:2:6:DA:OP2	2.33	0.61
3:A:137:ILE:CD1	3:A:384:SER:HA	2.31	0.61
3:A:166:ILE:HG23	3:A:172:TRP:NE1	2.14	0.61
3:A:199:LEU:HD23	3:A:229:PHE:CZ	2.36	0.61
3:A:378:PHE:O	3:A:380:SER:N	2.33	0.61
3:A:439:PRO:HG2	3:A:440:ASN:OD1	2.00	0.61
3:A:602:ASP:CG	3:A:603:ALA:N	2.54	0.61
3:A:868:ILE:HG23	3:A:869:GLU:N	2.14	0.61
4:B:18:SER:O	4:B:19:TRP:C	2.39	0.61
4:B:91:PHE:HE1	4:B:156:ASP:OD2	1.84	0.61
4:B:93:LYS:HB2	4:B:372:HIS:NE2	2.16	0.61
4:B:355:GLY:HA2	4:B:412:ILE:HG12	1.80	0.61
4:B:574:LEU:HD23	4:B:578:PRO:HD2	1.82	0.61
4:B:701:ILE:HG12	4:B:729:GLU:HB3	1.82	0.61
4:B:704:ASP:C	4:B:706:THR:H	2.07	0.61
4:B:860:LYS:HB3	4:B:863:ASP:OD2	2.01	0.61
4:B:1245:ILE:CG2	4:B:1246:PRO:HD2	2.29	0.61
5:C:51:THR:HG22	5:C:144:ARG:CA	2.28	0.61
5:D:57:ARG:NE	5:D:163:PHE:HA	2.15	0.61
6:E:138:GLN:C	6:E:139:ILE:HD13	2.25	0.61
6:E:392:LEU:O	6:E:393:ILE:C	2.42	0.61
6:E:521:THR:O	6:E:521:THR:OG1	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:576:VAL:HA	6:E:586:VAL:HA	1.81	0.61
7:F:33:VAL:HG23	7:F:34:GLN:N	2.14	0.61
8:G:359:ASN:OD1	8:G:361:THR:CG2	2.49	0.61
2:2:64:DA:OP1	2:2:64:DA:H2'	2.01	0.61
3:A:58:ASP:N	3:A:63:LEU:O	2.34	0.61
3:A:96:TYR:CD2	3:A:115:PHE:N	2.68	0.61
3:A:141:ILE:HG22	3:A:403:SER:O	2.00	0.61
3:A:335:GLN:NE2	3:A:373:ALA:HB1	2.15	0.61
3:A:617:ALA:HA	3:A:620:LYS:HG3	1.81	0.61
3:A:1003:GLN:N	3:A:1003:GLN:CD	2.56	0.61
4:B:251:PRO:C	4:B:253:THR:N	2.59	0.61
4:B:325:GLU:C	4:B:327:GLY:N	2.55	0.61
4:B:503:ARG:NH2	4:B:505:GLU:HB3	2.16	0.61
4:B:521:GLY:H	4:B:865:ILE:N	1.97	0.61
4:B:537:ILE:N	4:B:838:LEU:N	2.48	0.61
4:B:770:ALA:HA	4:B:795:LEU:HG	1.83	0.61
4:B:1105:GLY:O	4:B:1108:ALA:N	2.34	0.61
4:B:1226:GLU:CG	6:E:233:ASN:HD21	2.13	0.61
4:B:1237:GLU:OE1	4:B:1237:GLU:N	2.33	0.61
6:E:144:SER:C	6:E:145:TYR:CD1	2.79	0.61
6:E:206:ALA:CA	6:E:210:ARG:HG3	2.31	0.61
6:E:372:GLN:HG2	6:E:447:ILE:HD13	1.83	0.61
8:G:290:ILE:HG13	8:G:291:GLY:N	2.16	0.61
8:G:330:SER:HB2	8:G:333:GLU:CD	2.24	0.61
9:X:46:PHE:N	9:X:101:LEU:O	2.34	0.61
9:Y:95:PHE:CE2	9:Y:96:THR:HB	2.35	0.61
9:Y:169:THR:HG22	9:Y:212:VAL:O	1.99	0.61
2:2:7:DT:H1'	2:2:8:DC:H5'	1.83	0.61
3:A:122:MET:CG	3:A:123:THR:H	2.14	0.61
3:A:298:LEU:CA	3:A:301:VAL:HG22	2.27	0.61
3:A:615:PRO:C	3:A:617:ALA:H	2.08	0.61
4:B:82:ARG:HB3	4:B:84:GLU:OE1	2.01	0.61
4:B:711:GLY:H	4:B:719:ALA:H	1.49	0.61
4:B:1227:GLY:HA2	6:E:14:ILE:O	2.01	0.61
4:B:1237:GLU:N	4:B:1237:GLU:CD	2.56	0.61
6:E:253:PRO:O	6:E:254:PRO:C	2.40	0.61
6:E:283:ASN:C	6:E:283:ASN:OD1	2.35	0.61
6:E:307:GLN:HG3	6:E:308:GLU:N	2.12	0.61
9:X:35:PHE:HE1	9:X:88:ARG:CG	2.06	0.61
9:Y:35:PHE:C	9:Y:35:PHE:CD1	2.78	0.61
9:Y:43:ARG:NH1	9:Y:108:VAL:HG21	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:43:ARG:HD3	9:Y:105:ILE:HA	1.82	0.61
9:Y:135:MET:C	9:Y:137:ILE:H	2.09	0.61
9:Y:206:HIS:H	9:Y:209:LYS:N	1.97	0.61
1:1:96:DC:C2'	1:1:97:DT:H71	2.31	0.60
1:1:101:DT:C2	1:1:102:DA:C8	2.89	0.60
3:A:579:GLU:OE2	3:A:580:ALA:N	2.34	0.60
3:A:943:THR:CG2	3:A:945:LYS:HG2	2.31	0.60
4:B:198:ARG:HH12	6:E:346:ARG:HH22	1.49	0.60
4:B:378:PHE:CE1	4:B:413:VAL:CB	2.83	0.60
4:B:523:VAL:HG22	4:B:866:VAL:H	1.66	0.60
4:B:1052:ILE:O	4:B:1052:ILE:HG13	1.99	0.60
5:C:108:THR:HG21	5:C:124:THR:HA	1.81	0.60
5:D:38:ASN:O	5:D:39:ALA:C	2.42	0.60
5:D:207:GLN:OE1	5:D:207:GLN:N	2.34	0.60
6:E:78:ARG:HG2	6:E:80:ARG:H	1.66	0.60
6:E:231:ILE:O	6:E:232:ASP:C	2.44	0.60
6:E:261:GLN:HE21	6:E:262:LEU:N	1.99	0.60
6:E:296:GLU:O	6:E:298:ILE:C	2.44	0.60
7:F:17:ARG:HD3	7:F:67:ASP:HB3	1.82	0.60
8:G:262:ILE:O	8:G:266:MET:N	2.34	0.60
9:X:88:ARG:HG3	9:X:90:TYR:O	2.01	0.60
9:Y:43:ARG:HG2	9:Y:105:ILE:HG13	1.83	0.60
2:2:35:DA:C4	2:2:36:DT:C5	2.90	0.60
3:A:63:LEU:HA	3:A:103:ASN:HA	1.82	0.60
3:A:328:VAL:HG23	3:A:329:GLY:H	1.65	0.60
3:A:576:THR:C	3:A:578:LEU:H	2.09	0.60
3:A:761:ALA:O	3:A:762:TRP:C	2.43	0.60
3:A:970:ARG:NH2	4:B:119:LEU:O	2.33	0.60
4:B:6:ARG:HB3	4:B:12:GLN:HE22	1.64	0.60
4:B:26:THR:O	4:B:29:THR:HG23	2.00	0.60
4:B:378:PHE:HE1	4:B:413:VAL:CB	2.14	0.60
4:B:525:LEU:CA	4:B:859:VAL:HG11	2.31	0.60
4:B:701:ILE:CG1	4:B:729:GLU:HB3	2.31	0.60
4:B:714:LEU:H	4:B:717:GLN:H	1.49	0.60
5:C:27:PRO:O	5:C:192:ASP:HB2	2.01	0.60
5:C:182:GLU:HG3	5:C:184:ARG:H	1.66	0.60
5:C:188:SER:C	5:C:189:ILE:HG13	2.26	0.60
5:D:55:ALA:HB3	5:D:141:ARG:CD	2.29	0.60
6:E:329:ARG:HH12	8:G:289:PRO:HG3	1.62	0.60
2:2:58:DA:C4	2:2:59:DG:C5	2.89	0.60
3:A:156:ASN:CG	3:A:157:GLY:H	2.05	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:452:ARG:O	3:A:459:LEU:HA	2.01	0.60
3:A:604:THR:O	3:A:604:THR:HG22	2.01	0.60
4:B:250:HIS:ND1	4:B:250:HIS:C	2.58	0.60
4:B:259:PRO:HG2	4:B:260:ARG:N	2.16	0.60
4:B:785:VAL:HG23	4:B:786:GLU:H	1.67	0.60
4:B:839:VAL:HG12	4:B:840:LEU:O	2.01	0.60
4:B:988:VAL:CG1	4:B:994:LEU:HD11	2.25	0.60
5:C:49:GLU:OE1	5:C:50:GLY:N	2.32	0.60
5:C:205:SER:HB3	5:C:208:GLU:CD	2.25	0.60
5:D:176:VAL:O	5:D:176:VAL:HG13	2.00	0.60
5:D:205:SER:HB3	5:D:208:GLU:CD	2.25	0.60
6:E:28:ARG:HE	6:E:102:ARG:CZ	2.13	0.60
9:X:47:LEU:CB	9:X:100:LEU:HD23	2.31	0.60
9:X:169:THR:HG22	9:X:212:VAL:O	1.99	0.60
9:Y:52:VAL:HG13	9:Y:95:PHE:HB3	1.83	0.60
9:Y:126:LEU:CD2	9:Y:130:ILE:CG1	2.79	0.60
1:1:67:DC:N4	2:2:59:DG:H1	1.98	0.60
1:1:101:DT:O4	1:1:102:DA:N6	2.35	0.60
2:2:7:DT:O3'	2:2:8:DC:H2'	2.01	0.60
2:2:31:DA:H2'	2:2:32:DA:O4'	2.02	0.60
2:2:34:DA:C2'	2:2:35:DA:C8	2.82	0.60
3:A:94:GLN:OE1	3:A:94:GLN:N	2.34	0.60
3:A:110:LYS:NZ	3:A:360:THR:HG22	2.15	0.60
3:A:198:LEU:CD2	3:A:208:GLU:CB	2.77	0.60
3:A:198:LEU:HD21	3:A:298:LEU:HB3	1.82	0.60
3:A:260:ARG:HB3	3:A:261:PHE:CE1	2.36	0.60
3:A:618:SER:OG	3:A:662:ARG:NH2	2.34	0.60
3:A:798:ASP:OD1	3:A:798:ASP:N	2.28	0.60
4:B:43:TYR:O	4:B:46:ARG:N	2.34	0.60
4:B:68:ALA:O	4:B:69:ALA:C	2.45	0.60
4:B:186:THR:C	4:B:188:LEU:N	2.56	0.60
4:B:233:ILE:O	4:B:234:LYS:C	2.44	0.60
4:B:390:ARG:O	4:B:391:LYS:HG3	2.00	0.60
4:B:678:ASN:C	4:B:680:ILE:N	2.60	0.60
4:B:919:GLY:HA2	4:B:939:GLN:NE2	2.15	0.60
4:B:1195:LEU:O	4:B:1199:LYS:HB2	2.01	0.60
4:B:1231:TRP:NE1	6:E:11:TYR:HB3	2.13	0.60
4:B:1244:LEU:C	4:B:1245:ILE:HG13	2.26	0.60
5:C:176:VAL:HG13	5:C:176:VAL:O	2.00	0.60
5:C:214:ALA:HB3	5:D:225:LYS:CG	2.31	0.60
5:D:203:SER:OG	5:D:204:ILE:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:275:LEU:O	6:E:278:ARG:HB3	2.00	0.60
6:E:332:LYS:HZ1	8:G:297:ARG:HH22	1.45	0.60
6:E:587:LEU:N	6:E:587:LEU:CD1	2.60	0.60
7:F:59:LEU:O	7:F:60:ARG:C	2.41	0.60
8:G:82:ILE:HD13	8:G:180:PHE:CD1	2.36	0.60
8:G:114:GLU:OE2	8:G:115:ARG:HG2	1.99	0.60
8:G:235:LEU:HD12	8:G:238:THR:OG1	2.02	0.60
9:X:98:VAL:HG11	9:X:100:LEU:CD1	2.18	0.60
9:Y:43:ARG:HG3	9:Y:44:VAL:HG23	1.82	0.60
9:Y:48:LEU:HG	9:Y:101:LEU:N	2.16	0.60
1:1:74:DT:P	1:1:74:DT:H3'	2.41	0.60
1:1:80:DA:N7	2:2:46:DT:O4	2.34	0.60
1:1:84:DA:OP2	1:1:84:DA:C8	2.54	0.60
1:1:115:DA:H1'	1:1:116:DC:N1	2.17	0.60
1:1:119:DA:C6	2:2:6:DA:N7	2.70	0.60
2:2:27:DA:H4'	2:2:28:DC:OP1	2.01	0.60
3:A:175:PHE:C	3:A:176:GLU:OE1	2.45	0.60
3:A:366:ASN:O	3:A:367:PRO:C	2.45	0.60
3:A:797:ARG:HE	3:A:798:ASP:H	1.47	0.60
3:A:1048:ARG:O	3:A:1049:ASN:C	2.40	0.60
4:B:93:LYS:NZ	4:B:375:ASP:C	2.59	0.60
4:B:147:MET:O	4:B:154:ILE:HG23	2.01	0.60
4:B:197:THR:HA	4:B:200:LEU:HD12	1.83	0.60
4:B:273:GLU:O	4:B:275:ALA:N	2.35	0.60
4:B:280:VAL:HG22	4:B:281:VAL:H	1.64	0.60
4:B:471:THR:O	4:B:979:VAL:HA	2.02	0.60
4:B:482:ILE:HG13	4:B:483:LEU:C	2.26	0.60
4:B:614:LYS:C	4:B:616:LYS:H	2.09	0.60
4:B:638:GLU:HG3	4:B:683:GLU:HB2	1.83	0.60
4:B:700:VAL:C	4:B:703:ARG:H	2.09	0.60
5:C:161:LEU:C	5:C:163:PHE:H	2.10	0.60
5:C:203:SER:OG	5:C:204:ILE:HG12	2.02	0.60
6:E:67:LYS:O	6:E:68:ASP:OD1	2.19	0.60
6:E:118:LEU:C	6:E:120:GLY:H	2.10	0.60
6:E:146:VAL:HG22	6:E:187:GLY:H	1.66	0.60
6:E:148:LEU:HD13	6:E:149:SER:H	1.66	0.60
7:F:39:ALA:O	7:F:40:LYS:C	2.43	0.60
8:G:320:GLU:O	8:G:321:ASP:C	2.44	0.60
8:G:324:LYS:HG3	8:G:325:VAL:N	2.15	0.60
8:G:365:ILE:HD12	8:G:365:ILE:N	2.16	0.60
8:G:374:ARG:HA	8:G:377:ARG:HB2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:84:DA:C6	2:2:41:DC:N4	2.70	0.60
3:A:49:GLU:O	3:A:52:SER:N	2.34	0.60
3:A:51:ASN:HA	3:A:54:SER:OG	2.01	0.60
3:A:63:LEU:CD1	3:A:103:ASN:HB3	2.30	0.60
3:A:305:ILE:O	3:A:307:LEU:N	2.35	0.60
3:A:396:LEU:O	3:A:397:THR:C	2.39	0.60
3:A:499:GLU:OE1	3:A:500:ASN:HB2	2.02	0.60
3:A:508:VAL:O	3:A:519:THR:OG1	2.14	0.60
3:A:554:LEU:O	3:A:555:MET:C	2.42	0.60
3:A:599:VAL:H	3:A:615:PRO:HG3	1.67	0.60
3:A:762:TRP:NE1	3:A:763:VAL:O	2.34	0.60
3:A:1017:PHE:HE2	3:A:1025:LEU:CD1	1.87	0.60
4:B:30:ALA:O	4:B:31:VAL:C	2.37	0.60
4:B:121:SER:C	4:B:123:TYR:H	2.09	0.60
4:B:299:TYR:CE1	4:B:315:VAL:HG21	2.36	0.60
4:B:463:LYS:N	4:B:472:THR:CG2	2.63	0.60
4:B:480:ILE:CD1	4:B:974:VAL:HG21	2.31	0.60
4:B:548:GLN:HB2	4:B:753:PRO:HG2	1.82	0.60
4:B:563:LEU:HA	4:B:573:ASN:ND2	2.15	0.60
4:B:639:VAL:H	4:B:683:GLU:HA	1.65	0.60
4:B:713:GLU:HA	4:B:718:VAL:CA	2.30	0.60
4:B:1160:THR:CG2	4:B:1190:TYR:OH	2.48	0.60
4:B:1223:ALA:O	4:B:1226:GLU:N	2.19	0.60
5:C:40:LEU:O	5:C:43:VAL:HG12	2.02	0.60
6:E:402:LYS:CD	8:G:390:ARG:NH2	2.59	0.60
8:G:124:LEU:HD23	8:G:124:LEU:N	2.16	0.60
8:G:351:LEU:O	8:G:352:GLU:C	2.43	0.60
1:1:119:DA:C5	2:2:6:DA:N6	2.70	0.60
3:A:219:PHE:HB2	3:A:220:GLN:OE1	2.01	0.60
3:A:302:ASP:O	3:A:303:TYR:C	2.40	0.60
3:A:372:ALA:O	3:A:373:ALA:C	2.45	0.60
3:A:389:GLN:O	3:A:390:THR:C	2.41	0.60
3:A:545:LEU:C	3:A:547:HIS:N	2.57	0.60
3:A:618:SER:HA	3:A:621:SER:H	1.67	0.60
3:A:1049:ASN:O	3:A:1050:GLU:C	2.44	0.60
3:A:1055:ILE:HD11	6:E:386:PRO:HB2	1.82	0.60
4:B:95:ILE:HG13	4:B:146:LEU:CD1	2.32	0.60
4:B:174:ILE:HA	4:B:177:TYR:CD2	2.37	0.60
4:B:595:ARG:HH11	4:B:596:TYR:H	1.49	0.60
4:B:614:LYS:HZ1	4:B:622:GLU:N	1.99	0.60
4:B:871:VAL:HG13	4:B:872:ALA:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:75:VAL:CG1	5:C:76:LEU:HD12	2.32	0.60
5:D:19:HIS:O	5:D:21:SER:OG	2.18	0.60
5:D:49:GLU:HB3	5:D:144:ARG:HD3	1.83	0.60
5:D:49:GLU:OE1	5:D:50:GLY:N	2.32	0.60
6:E:206:ALA:CA	6:E:210:ARG:HE	2.15	0.60
8:G:122:GLU:OE2	8:G:123:LYS:HG3	2.01	0.60
8:G:246:THR:HG22	8:G:262:ILE:HG21	1.82	0.60
9:Y:33:THR:HA	9:Y:93:VAL:CA	2.29	0.60
1:1:99:DT:N1	8:G:212:TRP:CZ3	2.69	0.60
3:A:57:THR:O	3:A:348:ARG:NH1	2.35	0.60
3:A:255:GLN:O	3:A:258:ASP:OD1	2.19	0.60
3:A:274:ARG:C	3:A:278:ASN:HD21	2.09	0.60
3:A:608:VAL:O	3:A:616:THR:N	2.32	0.60
3:A:676:GLU:C	3:A:678:GLY:H	2.09	0.60
4:B:15:ASN:O	4:B:16:LEU:C	2.32	0.60
4:B:440:LYS:HA	4:B:1000:GLU:CA	2.31	0.60
4:B:545:VAL:HG13	4:B:829:ARG:NE	2.16	0.60
4:B:552:THR:OG1	4:B:563:LEU:HB2	2.01	0.60
4:B:575:ARG:HB2	4:B:588:VAL:C	2.27	0.60
4:B:631:TRP:CZ2	4:B:782:VAL:CG2	2.85	0.60
4:B:713:GLU:OE1	4:B:715:LEU:N	2.34	0.60
4:B:1041:GLY:HA3	4:B:1050:LYS:CG	2.30	0.60
4:B:1130:GLN:OE1	4:B:1130:GLN:HA	1.84	0.60
5:C:28:LEU:HB2	5:C:192:ASP:CB	2.31	0.60
5:C:201:ASN:CG	5:C:202:GLY:N	2.59	0.60
5:C:207:GLN:OE1	5:C:207:GLN:N	2.34	0.60
5:D:121:ILE:HG22	5:D:122:ASP:OD1	2.02	0.60
6:E:105:TYR:N	6:E:105:TYR:CD1	2.66	0.60
6:E:257:ARG:HB2	6:E:273:ASN:ND2	2.17	0.60
6:E:390:ASN:O	6:E:391:ARG:C	2.39	0.60
8:G:119:ARG:HG3	8:G:120:LEU:N	2.16	0.60
9:Y:156:LEU:C	9:Y:170:ILE:HD11	2.27	0.60
3:A:180:ASN:OD1	3:A:181:ASP:C	2.44	0.60
3:A:198:LEU:HD11	3:A:298:LEU:HB3	1.84	0.60
3:A:616:THR:O	3:A:619:GLY:O	2.20	0.60
3:A:703:LEU:HB2	3:A:883:VAL:HG12	1.83	0.60
3:A:734:GLU:C	3:A:772:LYS:HD2	2.25	0.60
3:A:788:LEU:HD21	8:G:385:LEU:HD13	1.83	0.60
3:A:909:THR:HG21	3:A:948:VAL:HG22	1.84	0.60
4:B:53:VAL:HG23	4:B:164:ARG:HG2	1.84	0.60
4:B:96:ASP:O	4:B:423:LEU:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:224:PRO:HD3	4:B:235:LEU:HD13	1.83	0.60
4:B:237:THR:C	4:B:239:LEU:N	2.57	0.60
4:B:347:GLN:NE2	4:B:356:THR:CG2	2.54	0.60
4:B:424:LEU:O	4:B:426:GLU:N	2.35	0.60
4:B:539:ILE:O	4:B:835:LEU:HD12	2.01	0.60
4:B:675:THR:H	4:B:681:LEU:HD22	1.67	0.60
4:B:785:VAL:HG23	4:B:786:GLU:N	2.17	0.60
5:C:134:GLY:O	5:C:135:LYS:HG3	2.02	0.60
5:D:40:LEU:O	5:D:42:ARG:N	2.35	0.60
5:D:59:ALA:HB3	5:D:137:GLU:CG	2.30	0.60
5:D:201:ASN:CG	5:D:202:GLY:N	2.59	0.60
6:E:217:LYS:C	6:E:221:ARG:HH11	2.10	0.60
6:E:226:LYS:HD3	6:E:229:ARG:HD2	1.82	0.60
1:1:59:DT:H2'	1:1:59:DT:OP2	2.01	0.60
3:A:256:LEU:HD11	3:A:260:ARG:HH21	1.67	0.60
3:A:644:ARG:CA	3:A:719:ILE:HD11	2.32	0.60
4:B:63:ARG:O	4:B:67:GLU:OE1	2.19	0.60
4:B:178:GLY:O	4:B:179:ALA:C	2.43	0.60
4:B:185:ASP:O	4:B:186:THR:C	2.44	0.60
4:B:328:THR:HG23	4:B:329:GLN:N	2.16	0.60
4:B:441:ALA:HB3	4:B:999:PHE:CE1	2.37	0.60
4:B:670:GLY:CA	4:B:687:LYS:O	2.40	0.60
4:B:1018:LEU:HD23	4:B:1148:MET:HE1	1.84	0.60
4:B:1022:LYS:HG2	4:B:1091:HIS:NE2	2.16	0.60
4:B:1154:ILE:HD11	4:B:1168:VAL:HG12	1.83	0.60
5:C:78:ILE:O	5:C:81:ARG:N	2.35	0.60
5:C:96:ILE:O	5:C:115:PRO:HD3	2.02	0.60
5:D:54:THR:OG1	5:D:55:ALA:N	2.35	0.60
6:E:59:CYS:SG	6:E:62:ILE:HG23	2.41	0.60
6:E:98:VAL:CG1	6:E:102:ARG:CZ	2.80	0.60
6:E:364:VAL:C	6:E:366:PRO:HD3	2.27	0.60
8:G:146:TYR:CZ	8:G:150:ILE:CD1	2.80	0.60
9:X:56:ARG:HB3	9:X:90:TYR:CD1	2.36	0.60
9:X:130:ILE:HD12	9:Y:130:ILE:HG23	1.84	0.60
1:1:86:DG:O6	2:2:40:DC:C4	2.45	0.59
1:1:87:DA:C4	1:1:88:DA:C8	2.90	0.59
3:A:176:GLU:OE1	3:A:186:ARG:NH1	2.35	0.59
3:A:789:ARG:NH1	3:A:795:LYS:HA	2.00	0.59
3:A:840:VAL:HG13	3:A:840:VAL:O	2.02	0.59
3:A:937:GLN:HA	3:A:949:TYR:CD2	2.37	0.59
3:A:1068:GLU:C	3:A:1070:PHE:N	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1090:GLU:HG3	3:A:1091:THR:N	2.16	0.59
4:B:98:TRP:CE3	4:B:98:TRP:HA	2.37	0.59
4:B:384:ILE:HG21	4:B:394:SER:CB	2.30	0.59
4:B:453:VAL:CG2	4:B:988:VAL:CB	2.65	0.59
4:B:602:GLY:HA3	4:B:633:PRO:HA	1.83	0.59
4:B:792:ARG:HD3	4:B:793:THR:N	2.17	0.59
4:B:1011:LEU:N	4:B:1011:LEU:HD12	2.14	0.59
4:B:1032:ARG:HB2	4:B:1078:PRO:HA	1.82	0.59
6:E:154:GLU:CG	6:E:155:THR:H	1.99	0.59
8:G:132:GLU:HA	8:G:135:GLU:OE2	2.02	0.59
9:X:36:PHE:HA	9:X:91:HIS:HA	1.83	0.59
9:X:205:ILE:HG13	9:X:209:LYS:H	1.67	0.59
1:1:97:DT:C2	2:2:29:DA:N1	2.70	0.59
1:1:122:DC:N4	2:2:3:DT:C4	2.70	0.59
2:2:3:DT:H1'	2:2:4:DG:C6	2.37	0.59
2:2:34:DA:C5	2:2:35:DA:C5	2.90	0.59
2:2:42:DT:O3'	2:2:43:DG:H2'	2.02	0.59
3:A:44:GLU:O	3:A:47:ILE:N	2.35	0.59
3:A:238:LEU:HB3	3:A:256:LEU:HD23	1.83	0.59
3:A:265:LYS:HG3	3:A:266:ARG:HG3	1.84	0.59
3:A:696:TYR:N	6:E:366:PRO:HG2	2.17	0.59
3:A:697:ASN:O	3:A:698:TYR:C	2.44	0.59
3:A:704:ILE:HG21	3:A:708:LEU:HD23	1.84	0.59
3:A:941:ASP:CG	3:A:942:GLU:OE2	2.45	0.59
4:B:526:PRO:HG3	4:B:537:ILE:HG12	1.85	0.59
4:B:535:ARG:N	4:B:839:VAL:HG13	2.16	0.59
4:B:536:GLU:O	4:B:536:GLU:HG2	2.02	0.59
4:B:540:ILE:HD13	4:B:835:LEU:HD13	1.84	0.59
4:B:1017:LEU:HD12	4:B:1018:LEU:N	2.17	0.59
4:B:1031:LYS:HA	4:B:1100:LEU:HD21	1.84	0.59
6:E:141:TYR:O	6:E:143:ASN:HB2	2.02	0.59
7:F:30:ARG:NH1	7:F:30:ARG:HG3	2.18	0.59
8:G:139:LEU:HD12	8:G:140:PRO:CD	2.29	0.59
8:G:338:ARG:CG	8:G:343:LEU:HD22	2.31	0.59
9:Y:49:LYS:CA	9:Y:99:GLU:HB3	2.33	0.59
9:Y:152:PHE:CE2	9:Y:156:LEU:HD21	2.37	0.59
9:Y:207:LYS:O	9:Y:207:LYS:HD3	2.02	0.59
1:1:58:DA:C1'	1:1:59:DT:C4	2.85	0.59
1:1:74:DT:C4	2:2:52:DA:N1	2.68	0.59
1:1:102:DA:H2'	8:G:208:THR:HG23	1.84	0.59
2:2:8:DC:C2	2:2:9:DC:N4	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:27:DA:H1'	2:2:28:DC:C6	2.37	0.59
3:A:25:PHE:CG	3:A:26:LEU:N	2.59	0.59
3:A:324:ARG:HG3	3:A:457:GLY:O	2.02	0.59
3:A:520:THR:H	3:A:523:GLN:NE2	2.00	0.59
3:A:600:TYR:CD2	3:A:607:ARG:CZ	2.85	0.59
3:A:659:ILE:HD12	3:A:659:ILE:N	2.17	0.59
3:A:789:ARG:HH12	3:A:795:LYS:CA	2.03	0.59
3:A:900:GLU:HG2	3:A:901:CYS:N	2.16	0.59
3:A:940:ARG:HD3	3:A:949:TYR:HB3	1.84	0.59
3:A:943:THR:O	3:A:945:LYS:N	2.35	0.59
3:A:1078:GLN:C	3:A:1080:LEU:N	2.55	0.59
4:B:5:ASN:O	4:B:6:ARG:HG3	2.01	0.59
4:B:82:ARG:NH1	4:B:924:ALA:HB3	2.17	0.59
4:B:250:HIS:CE1	4:B:254:LYS:C	2.81	0.59
4:B:367:THR:CA	4:B:370:THR:OG1	2.50	0.59
4:B:367:THR:OG1	4:B:370:THR:OG1	2.19	0.59
4:B:440:LYS:NZ	4:B:1000:GLU:H	1.97	0.59
4:B:456:ALA:C	4:B:458:VAL:N	2.59	0.59
4:B:547:ASP:N	4:B:829:ARG:HA	2.18	0.59
4:B:621:TYR:HD2	4:B:774:LEU:N	1.94	0.59
4:B:663:ASP:O	4:B:664:ILE:HG12	2.01	0.59
4:B:1154:ILE:HG13	4:B:1162:MET:CB	2.33	0.59
5:C:68:VAL:O	5:C:71:VAL:HG12	2.02	0.59
5:D:75:VAL:CG1	5:D:76:LEU:HD12	2.32	0.59
6:E:432:ARG:HD2	6:E:471:ASP:HB3	1.83	0.59
8:G:326:LEU:HD12	8:G:327:ASP:CA	2.32	0.59
9:X:27:THR:HA	9:X:98:VAL:CG1	2.33	0.59
9:Y:28:PHE:HB2	9:Y:94:ALA:CB	2.31	0.59
9:Y:45:TYR:C	9:Y:75:PHE:H	2.10	0.59
9:Y:81:LEU:CD2	9:Y:82:THR:CG2	2.70	0.59
1:1:89:DA:C6	1:1:90:DA:C5	2.89	0.59
1:1:94:DT:C2	1:1:95:DT:C5	2.91	0.59
1:1:106:DG:C3'	8:G:171:LYS:HD2	2.30	0.59
2:2:34:DA:C2	2:2:35:DA:C4	2.90	0.59
3:A:105:GLU:O	3:A:106:THR:C	2.44	0.59
3:A:660:GLY:C	3:A:661:GLU:OE1	2.46	0.59
3:A:838:VAL:C	3:A:839:TYR:CD1	2.81	0.59
3:A:899:PHE:HZ	4:B:53:VAL:HG21	1.65	0.59
3:A:1028:PHE:HE1	6:E:438:ARG:HG3	1.66	0.59
4:B:245:GLY:N	4:B:281:VAL:O	2.34	0.59
4:B:604:LEU:O	4:B:606:PHE:N	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1208:ILE:O	4:B:1209:SER:C	2.44	0.59
5:D:78:ILE:O	5:D:81:ARG:N	2.35	0.59
6:E:278:ARG:O	6:E:279:VAL:C	2.38	0.59
6:E:598:GLN:O	6:E:602:ILE:HD12	2.02	0.59
8:G:81:SER:CB	8:G:181:GLN:NE2	2.66	0.59
9:X:188:VAL:HA	9:X:192:ARG:HD3	1.85	0.59
1:1:61:DT:C2	1:1:62:DT:C4	2.90	0.59
2:2:3:DT:C2	2:2:4:DG:C6	2.90	0.59
2:2:52:DA:C2'	2:2:53:DT:H5'	2.20	0.59
3:A:109:ILE:HG13	3:A:110:LYS:H	1.68	0.59
3:A:264:PRO:O	3:A:265:LYS:C	2.45	0.59
3:A:299:ALA:HA	3:A:302:ASP:OD2	2.03	0.59
3:A:499:GLU:CD	3:A:499:GLU:C	2.68	0.59
3:A:506:PRO:HA	3:A:521:PRO:CD	2.33	0.59
3:A:577:GLY:HA2	3:A:915:LYS:HD2	1.84	0.59
3:A:579:GLU:CD	3:A:580:ALA:N	2.60	0.59
3:A:639:VAL:HG21	3:A:653:GLN:O	2.02	0.59
3:A:1038:LEU:CD2	3:A:1038:LEU:N	2.62	0.59
4:B:538:GLU:OE1	4:B:538:GLU:N	2.35	0.59
4:B:676:GLN:OE1	4:B:679:ASP:N	2.33	0.59
4:B:927:GLU:OE2	4:B:930:PRO:CB	2.51	0.59
4:B:1077:VAL:CG2	4:B:1083:LEU:HG	2.32	0.59
5:C:26:GLU:HB2	5:C:27:PRO:HD3	1.83	0.59
5:D:40:LEU:O	5:D:43:VAL:HG12	2.02	0.59
5:D:49:GLU:OE2	5:D:146:LYS:HA	2.00	0.59
5:D:68:VAL:O	5:D:71:VAL:HG12	2.02	0.59
5:D:103:GLY:H	5:D:133:GLY:HA2	1.68	0.59
6:E:611:GLY:O	6:E:613:VAL:N	2.35	0.59
6:E:619:ILE:HD12	6:E:619:ILE:N	2.11	0.59
8:G:85:TYR:O	8:G:89:ILE:HG23	2.02	0.59
8:G:173:TYR:HA	8:G:176:ARG:HB2	1.85	0.59
2:2:47:DT:H6	2:2:47:DT:H5"	1.66	0.59
3:A:32:GLU:C	3:A:34:GLN:N	2.57	0.59
3:A:110:LYS:CE	3:A:360:THR:HA	2.32	0.59
3:A:163:ALA:HB3	3:A:175:PHE:HD2	1.67	0.59
3:A:189:LYS:CG	3:A:190:THR:H	2.11	0.59
3:A:271:ARG:H	3:A:290:ARG:HH12	1.51	0.59
3:A:559:MET:O	3:A:561:ARG:N	2.35	0.59
3:A:573:LEU:CD2	3:A:685:ASN:HD22	2.15	0.59
3:A:598:VAL:CG1	3:A:661:GLU:H	2.12	0.59
3:A:618:SER:C	3:A:621:SER:H	2.10	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:902:LEU:O	3:A:903:LEU:C	2.41	0.59
4:B:225:MET:HB2	4:B:238:ARG:NH2	2.18	0.59
4:B:330:LEU:HD21	4:B:1134:ILE:CD1	2.33	0.59
4:B:621:TYR:HD2	4:B:773:ARG:CA	2.15	0.59
4:B:657:GLY:C	4:B:668:ASN:ND2	2.48	0.59
4:B:731:PRO:C	4:B:733:GLY:N	2.60	0.59
4:B:842:ARG:HD3	4:B:845:ALA:CB	2.26	0.59
4:B:943:VAL:CG2	4:B:964:VAL:HG22	2.33	0.59
4:B:943:VAL:HA	4:B:964:VAL:HA	1.85	0.59
4:B:1028:ILE:HG22	4:B:1083:LEU:N	2.17	0.59
5:C:101:VAL:CG1	5:C:102:ASN:H	2.15	0.59
5:C:121:ILE:HG22	5:C:122:ASP:OD1	2.02	0.59
5:C:201:ASN:CG	5:C:203:SER:H	2.10	0.59
5:D:25:LEU:O	5:D:26:GLU:C	2.45	0.59
5:D:154:GLY:O	5:D:155:ARG:CG	2.50	0.59
6:E:210:ARG:HA	6:E:213:ILE:CG1	2.28	0.59
6:E:316:ASN:HB2	6:E:333:SER:OG	2.02	0.59
8:G:163:LEU:HD12	8:G:164:ARG:H	0.66	0.59
8:G:266:MET:HE3	8:G:273:LEU:HD22	1.84	0.59
8:G:337:LEU:O	8:G:341:TYR:HB2	2.03	0.59
9:X:67:ALA:C	9:X:68:LEU:HG	2.28	0.59
9:Y:45:TYR:H	9:Y:75:PHE:C	2.11	0.59
1:1:88:DA:N6	2:2:37:DT:C2	2.71	0.59
1:1:89:DA:C2	1:1:90:DA:C4	2.90	0.59
3:A:32:GLU:OE1	3:A:36:SER:OG	2.20	0.59
3:A:138:VAL:HG22	3:A:139:ASN:N	2.18	0.59
3:A:156:ASN:CG	3:A:157:GLY:N	2.61	0.59
3:A:216:PRO:O	3:A:220:GLN:N	2.35	0.59
3:A:263:ASP:O	3:A:264:PRO:C	2.42	0.59
3:A:958:MET:O	3:A:959:VAL:HG13	2.02	0.59
3:A:970:ARG:NH2	4:B:120:ASN:HA	2.04	0.59
4:B:80:TYR:CG	4:B:90:ARG:HG2	2.37	0.59
4:B:268:LEU:HD23	4:B:268:LEU:C	2.27	0.59
4:B:321:GLN:CB	6:E:436:LEU:HG	2.33	0.59
4:B:437:ASN:ND2	4:B:1068:ASN:OD1	2.36	0.59
4:B:655:GLU:C	4:B:657:GLY:H	2.09	0.59
4:B:688:PRO:HG2	4:B:739:ARG:HG2	1.85	0.59
5:D:59:ALA:HA	5:D:162:ASP:OD2	2.03	0.59
6:E:483:SER:O	6:E:483:SER:OG	2.21	0.59
9:X:77:VAL:HG11	9:X:126:LEU:HD13	1.84	0.59
9:Y:81:LEU:HD21	9:Y:82:THR:HG23	1.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:74:DT:N3	2:2:52:DA:C2	2.68	0.59
3:A:344:GLU:CD	3:A:344:GLU:C	2.68	0.59
3:A:610:VAL:O	3:A:632:GLY:HA3	2.02	0.59
4:B:92:GLN:C	4:B:95:ILE:HG22	2.28	0.59
4:B:100:GLY:HA3	4:B:421:GLY:O	2.03	0.59
4:B:492:PRO:HD3	4:B:895:ARG:NH2	2.17	0.59
4:B:537:ILE:HB	4:B:838:LEU:HB2	1.84	0.59
4:B:627:GLY:C	4:B:745:ALA:HA	2.28	0.59
4:B:927:GLU:OE2	4:B:930:PRO:HB3	2.03	0.59
4:B:1035:GLU:OE1	4:B:1054:SER:HB3	2.03	0.59
4:B:1117:VAL:O	4:B:1120:PHE:N	2.35	0.59
4:B:1151:LYS:NZ	4:B:1169:GLU:HG2	2.17	0.59
4:B:1244:LEU:HD23	4:B:1244:LEU:N	2.09	0.59
5:C:96:ILE:C	5:C:115:PRO:HD3	2.27	0.59
6:E:131:MET:SD	6:E:159:LYS:HD3	2.42	0.59
6:E:202:LEU:CD1	6:E:235:ILE:CG2	2.78	0.59
6:E:311:ASP:C	6:E:311:ASP:OD2	2.43	0.59
6:E:543:MET:O	6:E:544:ALA:C	2.42	0.59
9:X:52:VAL:HG21	9:X:98:VAL:HG13	1.84	0.59
9:Y:53:LYS:HA	9:Y:67:ALA:O	2.02	0.59
9:Y:191:THR:HA	9:Y:194:LEU:HD13	1.85	0.59
1:1:87:DA:C2	1:1:88:DA:C4	2.90	0.59
1:1:94:DT:C2'	1:1:95:DT:H71	2.33	0.59
2:2:44:DA:C1'	2:2:45:DA:H5'	2.32	0.59
2:2:59:DG:C8	2:2:59:DG:C5'	2.86	0.59
2:2:59:DG:C4	2:2:60:DC:C5	2.91	0.59
3:A:74:LEU:HD22	3:A:94:GLN:C	2.27	0.59
3:A:263:ASP:C	3:A:265:LYS:N	2.55	0.59
3:A:332:LEU:O	3:A:335:GLN:N	2.36	0.59
3:A:432:PRO:C	3:A:433:ILE:HD13	2.27	0.59
3:A:434:GLU:O	3:A:435:THR:OG1	2.18	0.59
3:A:596:GLY:O	3:A:663:VAL:HG22	2.03	0.59
3:A:697:ASN:H	3:A:701:ALA:HB3	1.66	0.59
3:A:898:VAL:HG23	3:A:899:PHE:N	2.14	0.59
3:A:932:VAL:HG13	3:A:933:HIS:H	1.66	0.59
4:B:208:ILE:HG23	4:B:313:GLU:C	2.28	0.59
4:B:355:GLY:HA3	4:B:358:LYS:NZ	2.17	0.59
4:B:511:ALA:O	4:B:876:ILE:HG23	2.02	0.59
4:B:618:LYS:C	4:B:621:TYR:OH	2.46	0.59
4:B:914:PRO:HG3	4:B:944:LYS:HZ1	1.68	0.59
5:C:9:VAL:HG11	5:C:22:LYS:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:116:SER:O	5:C:117:GLU:HB3	2.01	0.59
6:E:375:LEU:H	6:E:449:VAL:HB	1.68	0.59
6:E:547:GLN:N	6:E:547:GLN:OE1	2.36	0.59
8:G:129:ARG:HD2	8:G:129:ARG:H	1.67	0.59
9:Y:213:HIS:O	9:Y:214:LYS:HG3	2.03	0.59
1:1:73:DA:N7	2:2:53:DT:O4	2.35	0.59
1:1:84:DA:C4	2:2:42:DT:O4	2.56	0.59
2:2:4:DG:H1'	2:2:5:DC:C6	2.37	0.59
2:2:55:DA:H2'	2:2:56:DG:C8	2.38	0.59
3:A:27:LEU:HD22	3:A:27:LEU:N	2.17	0.59
3:A:541:MET:HA	3:A:576:THR:HG21	1.85	0.59
3:A:545:LEU:O	3:A:546:GLU:C	2.46	0.59
3:A:590:ILE:HG22	3:A:670:ALA:N	2.18	0.59
3:A:684:GLN:NE2	3:A:713:ILE:CG2	2.58	0.59
3:A:736:ILE:HD13	3:A:772:LYS:CB	2.33	0.59
3:A:1047:GLY:O	3:A:1048:ARG:C	2.45	0.59
4:B:288:CYS:HB2	4:B:298:CYS:SG	2.43	0.59
4:B:910:ILE:HD11	4:B:930:PRO:CD	2.32	0.59
5:D:168:SER:HG	5:D:169:ILE:H	1.51	0.59
6:E:336:ASP:HA	6:E:339:GLU:CD	2.27	0.59
6:E:370:ILE:HG23	6:E:457:HIS:CD2	2.38	0.59
7:F:30:ARG:HH11	7:F:30:ARG:HG3	1.68	0.59
8:G:88:GLU:OE2	8:G:89:ILE:HG22	2.03	0.59
9:X:44:VAL:CG2	9:X:108:VAL:HG21	2.33	0.59
9:X:47:LEU:HD23	9:X:69:LEU:HG	1.84	0.59
3:A:42:LEU:O	3:A:43:GLU:C	2.44	0.58
3:A:78:LYS:C	3:A:79:TYR:CD1	2.81	0.58
3:A:435:THR:HG22	3:A:436:PRO:CD	2.33	0.58
3:A:606:ILE:CA	3:A:609:ARG:HE	2.16	0.58
3:A:644:ARG:CB	3:A:719:ILE:HD11	2.33	0.58
3:A:813:ARG:O	3:A:840:VAL:HG23	2.03	0.58
3:A:871:MET:HE3	3:A:872:PRO:HD2	1.84	0.58
3:A:902:LEU:O	3:A:905:TRP:N	2.36	0.58
4:B:174:ILE:O	4:B:175:SER:C	2.44	0.58
4:B:366:ARG:CZ	4:B:369:ARG:HE	2.16	0.58
4:B:453:VAL:HG21	4:B:988:VAL:HG11	1.72	0.58
4:B:589:ALA:O	4:B:795:LEU:N	2.34	0.58
4:B:882:GLY:N	4:B:899:VAL:HG22	2.18	0.58
4:B:984:ASP:O	4:B:986:ASP:N	2.36	0.58
5:C:40:LEU:O	5:C:42:ARG:N	2.35	0.58
5:C:148:TYR:CE1	5:C:171:MET:HB2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:41:LYS:HB3	6:E:43:GLU:OE2	2.04	0.58
6:E:222:ALA:HA	6:E:225:ILE:HD11	1.84	0.58
6:E:296:GLU:O	6:E:299:VAL:HG12	2.03	0.58
6:E:492:LEU:O	6:E:493:ALA:C	2.44	0.58
9:Y:34:ILE:HG21	9:Y:45:TYR:CD1	2.38	0.58
9:Y:78:LEU:CD2	9:Y:88:ARG:HH11	2.16	0.58
1:1:89:DA:H1'	1:1:90:DA:O5'	2.03	0.58
3:A:90:THR:HA	3:A:130:ILE:HA	1.86	0.58
3:A:240:ARG:O	3:A:241:LYS:HG3	2.03	0.58
3:A:417:PHE:C	3:A:419:VAL:N	2.55	0.58
3:A:490:VAL:O	3:A:490:VAL:HG13	2.02	0.58
4:B:64:SER:O	4:B:65:LEU:C	2.45	0.58
4:B:604:LEU:CD1	4:B:631:TRP:HE3	2.16	0.58
4:B:1110:ALA:O	4:B:1114:LEU:N	2.36	0.58
4:B:1150:ASN:C	4:B:1150:ASN:OD1	2.41	0.58
5:C:101:VAL:HB	5:C:136:LEU:HD13	1.84	0.58
5:D:13:THR:HG22	5:D:19:HIS:CG	2.38	0.58
5:D:38:ASN:C	5:D:38:ASN:OD1	2.44	0.58
6:E:206:ALA:C	6:E:210:ARG:HD2	2.21	0.58
9:X:57:VAL:CG2	9:X:58:TYR:N	2.66	0.58
9:Y:54:LEU:HD11	9:Y:90:TYR:O	2.02	0.58
1:1:58:DA:N3	1:1:58:DA:O4'	2.32	0.58
3:A:571:ARG:NH2	3:A:677:GLY:HA3	2.18	0.58
3:A:676:GLU:C	3:A:678:GLY:N	2.53	0.58
3:A:762:TRP:N	3:A:813:ARG:NH1	2.51	0.58
3:A:783:PRO:HB2	8:G:342:GLY:HA3	1.85	0.58
3:A:873:TYR:HA	3:A:879:PRO:CA	2.21	0.58
4:B:15:ASN:O	4:B:18:SER:OG	2.20	0.58
4:B:359:LEU:HG	4:B:387:LEU:CA	2.31	0.58
4:B:453:VAL:HG13	4:B:455:PHE:HE1	1.67	0.58
4:B:549:ALA:CB	4:B:564:ILE:HG23	2.30	0.58
4:B:771:VAL:HG11	4:B:796:VAL:HG23	1.84	0.58
5:C:74:ASP:O	5:C:77:GLU:HG3	2.03	0.58
5:C:96:ILE:HG23	5:C:140:PHE:O	2.03	0.58
5:C:207:GLN:O	5:C:208:GLU:C	2.42	0.58
6:E:73:CYS:SG	6:E:74:GLY:N	2.76	0.58
6:E:385:GLN:HG3	6:E:386:PRO:N	2.11	0.58
8:G:130:ASP:CG	8:G:133:TRP:HB3	2.27	0.58
9:X:75:PHE:CZ	9:X:100:LEU:HD13	2.38	0.58
9:X:177:GLN:CA	9:X:180:ALA:H	2.17	0.58
9:Y:206:HIS:HE1	9:Y:211:THR:HG21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:31:DA:C2	2:2:32:DA:C4	2.92	0.58
2:2:34:DA:C4	2:2:35:DA:C5	2.92	0.58
2:2:50:DG:N3	2:2:51:DT:O4'	2.37	0.58
3:A:214:ARG:HH22	3:A:311:ILE:HG13	1.68	0.58
3:A:288:THR:O	3:A:288:THR:OG1	2.10	0.58
3:A:376:GLU:O	3:A:377:PHE:C	2.42	0.58
3:A:599:VAL:HG23	3:A:600:TYR:N	2.19	0.58
3:A:606:ILE:N	3:A:609:ARG:HH21	1.99	0.58
3:A:784:GLU:O	3:A:787:LEU:HB2	2.03	0.58
3:A:1011:GLN:O	3:A:1011:GLN:HG2	2.03	0.58
3:A:1087:HIS:HA	6:E:9:PHE:HB2	1.85	0.58
4:B:87:GLU:C	4:B:89:GLU:N	2.58	0.58
4:B:184:VAL:O	4:B:185:ASP:C	2.40	0.58
4:B:445:VAL:O	4:B:445:VAL:HG12	2.03	0.58
4:B:525:LEU:O	4:B:527:GLU:N	2.36	0.58
4:B:527:GLU:HB2	4:B:536:GLU:OE2	2.03	0.58
4:B:543:SER:C	4:B:831:GLN:HE21	2.12	0.58
4:B:631:TRP:CD1	4:B:633:PRO:N	2.70	0.58
4:B:645:LEU:C	4:B:662:LYS:HZ3	2.11	0.58
4:B:900:LEU:HD21	4:B:967:ARG:HH12	1.68	0.58
5:C:83:LYS:CG	5:C:166:ILE:HD11	2.33	0.58
5:C:101:VAL:CG1	5:C:102:ASN:N	2.66	0.58
5:D:83:LYS:CG	5:D:166:ILE:HD11	2.33	0.58
5:D:96:ILE:HG23	5:D:140:PHE:O	2.03	0.58
6:E:154:GLU:OE2	6:E:179:SER:HB2	2.04	0.58
6:E:206:ALA:O	6:E:210:ARG:NE	2.35	0.58
8:G:368:ILE:HA	8:G:371:LYS:HB3	1.84	0.58
9:X:166:ASP:OD2	9:X:213:HIS:HD2	1.85	0.58
3:A:49:GLU:O	3:A:50:LEU:C	2.43	0.58
3:A:465:PRO:HD2	3:A:475:GLN:HG3	1.85	0.58
3:A:568:LYS:HG3	3:A:568:LYS:O	2.02	0.58
3:A:576:THR:HG23	3:A:578:LEU:N	2.16	0.58
3:A:608:VAL:HA	3:A:615:PRO:CG	2.34	0.58
3:A:727:ARG:NH2	3:A:829:PRO:HB2	2.17	0.58
3:A:968:PHE:CE1	4:B:48:GLY:C	2.81	0.58
3:A:1085:ALA:HB3	6:E:13:LYS:HB3	1.84	0.58
4:B:2:ILE:CD1	6:E:563:ASP:HB2	2.34	0.58
4:B:489:ASN:HB2	4:B:849:THR:OG1	2.03	0.58
4:B:555:SER:HB2	4:B:559:ARG:O	2.03	0.58
4:B:582:VAL:HG13	4:B:586:GLN:HB2	1.85	0.58
4:B:588:VAL:HB	4:B:795:LEU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:54:THR:OG1	5:C:55:ALA:N	2.34	0.58
5:D:74:ASP:O	5:D:77:GLU:HG3	2.03	0.58
5:D:147:GLY:O	5:D:149:ARG:HB2	2.04	0.58
6:E:129:LEU:HD11	6:E:197:LEU:HD11	1.85	0.58
6:E:257:ARG:HB3	6:E:272:LEU:HB2	1.85	0.58
6:E:277:ARG:HG3	6:E:278:ARG:N	2.18	0.58
6:E:303:LYS:O	6:E:306:LEU:N	2.37	0.58
6:E:418:VAL:HG13	6:E:419:LEU:N	2.18	0.58
6:E:482:GLU:O	6:E:485:ALA:N	2.36	0.58
6:E:497:ILE:HD13	6:E:497:ILE:N	2.18	0.58
6:E:504:ARG:NE	6:E:504:ARG:HA	2.17	0.58
8:G:121:SER:N	8:G:128:PRO:HD3	2.19	0.58
9:X:63:GLU:OE1	9:X:63:GLU:N	2.36	0.58
1:1:79:DA:C2'	1:1:80:DA:H5"	2.28	0.58
3:A:67:PHE:CG	3:A:99:THR:CB	2.73	0.58
3:A:184:TRP:CD1	3:A:193:LEU:HD11	2.37	0.58
3:A:249:THR:O	3:A:250:VAL:C	2.46	0.58
3:A:334:ASN:OD1	3:A:334:ASN:C	2.39	0.58
3:A:731:LEU:HD12	3:A:731:LEU:N	2.19	0.58
4:B:34:ASP:O	4:B:37:LYS:N	2.37	0.58
4:B:62:LYS:N	4:B:108:GLU:OE1	2.37	0.58
4:B:93:LYS:HG3	4:B:370:THR:HB	1.85	0.58
4:B:199:ARG:O	4:B:200:LEU:C	2.43	0.58
4:B:321:GLN:HE22	6:E:438:ARG:HG2	1.69	0.58
4:B:520:GLY:O	4:B:760:GLN:CD	2.47	0.58
4:B:520:GLY:HA2	4:B:764:ARG:NH2	2.17	0.58
4:B:636:THR:HG22	4:B:638:GLU:OE1	2.02	0.58
4:B:705:ASN:HA	4:B:727:TYR:HA	1.86	0.58
4:B:724:TYR:CE2	4:B:726:GLN:HA	2.38	0.58
4:B:732:GLU:O	4:B:734:PRO:HD3	2.03	0.58
4:B:774:LEU:HB2	4:B:790:LEU:O	2.03	0.58
4:B:786:GLU:HG3	4:B:788:VAL:CG2	2.34	0.58
4:B:888:GLN:OE1	4:B:894:VAL:HG11	2.03	0.58
4:B:1142:GLU:O	4:B:1143:VAL:C	2.40	0.58
4:B:1154:ILE:CD1	4:B:1173:VAL:HG21	2.33	0.58
5:C:107:ILE:HD11	5:C:136:LEU:HD11	1.86	0.58
5:C:195:LEU:HD12	5:C:195:LEU:N	2.18	0.58
5:C:215:GLY:O	5:C:216:ILE:C	2.43	0.58
5:D:121:ILE:C	5:D:122:ASP:OD1	2.47	0.58
6:E:406:LYS:HG3	6:E:410:ARG:HH11	1.68	0.58
6:E:533:LYS:H	6:E:556:VAL:HG22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:176:HIS:C	9:X:189:THR:OG1	2.40	0.58
1:1:74:DT:C2	2:2:53:DT:N3	2.71	0.58
1:1:97:DT:C2	1:1:98:DG:N7	2.71	0.58
2:2:46:DT:H2"	2:2:47:DT:H71	1.84	0.58
3:A:135:ARG:NH2	3:A:384:SER:O	2.26	0.58
3:A:225:LYS:C	3:A:225:LYS:HZ3	2.11	0.58
3:A:465:PRO:HA	3:A:526:TYR:CE1	2.39	0.58
3:A:630:GLN:C	3:A:633:GLN:HE21	2.09	0.58
3:A:1091:THR:HG22	3:A:1092:GLN:N	2.18	0.58
4:B:4:ARG:HG2	6:E:565:GLU:HG3	1.85	0.58
4:B:170:THR:O	4:B:173:ILE:N	2.37	0.58
4:B:546:LEU:HB2	4:B:830:LEU:H	1.66	0.58
4:B:914:PRO:HG3	4:B:944:LYS:NZ	2.18	0.58
4:B:1061:TYR:O	4:B:1061:TYR:HD1	1.85	0.58
4:B:1190:TYR:O	4:B:1191:THR:C	2.45	0.58
5:C:33:GLY:HA2	5:C:194:LEU:HD12	1.86	0.58
5:C:62:SER:HG	5:C:63:HIS:CG	2.14	0.58
6:E:28:ARG:HE	6:E:102:ARG:NH1	2.01	0.58
6:E:196:LEU:O	6:E:197:LEU:C	2.45	0.58
6:E:277:ARG:O	6:E:278:ARG:C	2.41	0.58
6:E:482:GLU:O	6:E:486:GLU:OE1	2.22	0.58
6:E:543:MET:O	6:E:545:PHE:N	2.36	0.58
8:G:316:ASN:O	8:G:317:LEU:C	2.46	0.58
8:G:324:LYS:CG	8:G:325:VAL:N	2.66	0.58
9:X:47:LEU:HD11	9:X:50:GLY:O	2.04	0.58
1:1:88:DA:H2"	1:1:89:DA:O4'	2.03	0.58
2:2:49:DT:H3'	9:X:176:HIS:CD2	2.39	0.58
3:A:191:ARG:NH1	3:A:243:ARG:H	1.97	0.58
3:A:242:LEU:HG	3:A:243:ARG:HB2	1.85	0.58
3:A:607:ARG:HA	3:A:609:ARG:CD	2.33	0.58
3:A:790:ALA:C	3:A:793:GLY:H	2.12	0.58
3:A:866:LEU:HD22	3:A:870:ASP:OD2	2.04	0.58
3:A:866:LEU:HD12	3:A:871:MET:SD	2.43	0.58
3:A:877:GLY:HA3	5:C:177:ASN:OD1	2.03	0.58
3:A:901:CYS:O	3:A:904:GLY:N	2.37	0.58
3:A:1030:ALA:HA	7:F:29:TYR:CE1	2.38	0.58
3:A:1046:GLN:O	3:A:1047:GLY:C	2.47	0.58
4:B:45:THR:O	4:B:47:ALA:N	2.37	0.58
4:B:93:LYS:CD	4:B:375:ASP:CB	2.72	0.58
4:B:105:LEU:O	4:B:106:LYS:C	2.47	0.58
4:B:124:MET:SD	6:E:519:TYR:HB2	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:310:ASP:O	4:B:311:LEU:HG	2.04	0.58
4:B:362:LYS:HZ3	4:B:364:ARG:NH2	2.01	0.58
4:B:389:PRO:HD2	4:B:399:PRO:HG3	1.86	0.58
4:B:526:PRO:HB3	4:B:536:GLU:C	2.29	0.58
4:B:646:LEU:HB2	4:B:662:LYS:N	2.04	0.58
4:B:660:VAL:HG23	4:B:664:ILE:C	2.29	0.58
4:B:763:GLY:HA2	4:B:801:GLN:HG3	1.83	0.58
4:B:774:LEU:HD12	4:B:775:PRO:HD2	1.84	0.58
4:B:864:THR:O	4:B:865:ILE:C	2.46	0.58
4:B:1051:VAL:CG1	4:B:1052:ILE:H	2.15	0.58
4:B:1054:SER:OG	4:B:1055:ASN:N	2.37	0.58
5:C:76:LEU:HB3	5:C:80:MET:SD	2.44	0.58
5:C:221:PHE:HE2	5:D:221:PHE:CE2	2.22	0.58
5:D:38:ASN:OD1	5:D:39:ALA:N	2.37	0.58
5:D:78:ILE:C	5:D:80:MET:H	2.12	0.58
6:E:23:ARG:HD2	6:E:107:LYS:HZ2	1.69	0.58
6:E:262:LEU:O	6:E:265:GLY:N	2.34	0.58
6:E:547:GLN:N	6:E:547:GLN:CD	2.60	0.58
8:G:111:LEU:O	8:G:112:GLU:C	2.44	0.58
8:G:115:ARG:O	8:G:118:GLU:HG3	2.03	0.58
8:G:290:ILE:HG23	8:G:296:SER:O	2.04	0.58
9:Y:45:TYR:O	9:Y:75:PHE:N	2.34	0.58
9:Y:52:VAL:O	9:Y:68:LEU:HA	2.03	0.58
9:Y:166:ASP:OD2	9:Y:213:HIS:HD2	1.85	0.58
1:1:88:DA:C2	2:2:38:DT:C2	2.90	0.58
1:1:95:DT:C4	2:2:31:DA:N6	2.72	0.58
1:1:99:DT:H5'	1:1:99:DT:N1	2.18	0.58
3:A:70:HIS:CE1	3:A:71:ASN:OD1	2.57	0.58
3:A:195:ALA:HB1	3:A:222:THR:HG21	1.85	0.58
3:A:224:GLU:OE1	3:A:224:GLU:N	2.35	0.58
3:A:602:ASP:O	3:A:604:THR:N	2.37	0.58
4:B:79:ARG:HB2	4:B:85:ILE:CD1	2.33	0.58
4:B:93:LYS:HD2	4:B:375:ASP:HB2	1.79	0.58
4:B:385:MET:HG2	4:B:406:GLN:O	2.03	0.58
4:B:653:TYR:OH	4:B:670:GLY:HA2	2.04	0.58
4:B:907:THR:HA	4:B:966:ILE:HG22	1.85	0.58
4:B:980:LEU:CA	4:B:995:VAL:HG23	2.28	0.58
4:B:1132:GLN:N	4:B:1132:GLN:CD	2.62	0.58
5:C:121:ILE:C	5:C:122:ASP:OD1	2.47	0.58
5:D:32:GLN:HA	5:D:36:VAL:HB	1.85	0.58
5:D:114:LEU:HD12	5:D:114:LEU:C	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:141:TYR:O	6:E:142:PHE:C	2.42	0.58
6:E:482:GLU:CD	6:E:482:GLU:C	2.68	0.58
6:E:611:GLY:C	6:E:613:VAL:N	2.59	0.58
9:X:52:VAL:CG2	9:X:98:VAL:HG13	2.34	0.58
9:X:213:HIS:O	9:X:214:LYS:HG3	2.03	0.58
1:1:109:DG:O3'	1:1:110:DC:H2'	2.03	0.58
2:2:59:DG:C6	2:2:60:DC:N4	2.72	0.58
2:2:66:DA:H1'	2:2:67:DA:N6	2.18	0.58
3:A:305:ILE:O	3:A:306:ASN:C	2.45	0.58
3:A:378:PHE:O	3:A:379:GLY:C	2.45	0.58
3:A:435:THR:CG2	3:A:442:GLY:H	2.16	0.58
3:A:555:MET:O	3:A:559:MET:SD	2.62	0.58
3:A:555:MET:O	3:A:556:GLY:C	2.47	0.58
3:A:609:ARG:HH11	3:A:609:ARG:HB3	1.69	0.58
3:A:828:LEU:HD12	3:A:828:LEU:C	2.28	0.58
3:A:983:VAL:O	3:A:985:LEU:N	2.36	0.58
4:B:77:GLU:OE2	4:B:80:TYR:HD2	1.86	0.58
4:B:80:TYR:HA	4:B:85:ILE:CG1	2.33	0.58
4:B:254:LYS:O	4:B:255:GLU:OE2	2.21	0.58
4:B:318:ILE:O	4:B:321:GLN:HG2	2.03	0.58
4:B:541:THR:HG21	4:B:764:ARG:NH2	2.18	0.58
4:B:609:VAL:HG22	4:B:626:GLY:CA	2.32	0.58
4:B:671:VAL:HG13	4:B:687:LYS:HB3	1.86	0.58
4:B:896:ARG:NE	4:B:986:ASP:OD1	2.33	0.58
5:C:71:VAL:HG13	5:C:71:VAL:O	2.04	0.58
5:C:196:LEU:HD23	5:C:196:LEU:C	2.29	0.58
5:D:81:ARG:O	5:D:84:GLU:OE2	2.22	0.58
5:D:137:GLU:O	5:D:137:GLU:HG3	2.03	0.58
5:D:183:VAL:HG12	5:D:184:ARG:O	2.04	0.58
6:E:443:ALA:HB3	6:E:492:LEU:HD12	1.85	0.58
8:G:231:LEU:HB3	8:G:232:PRO:HD2	1.86	0.58
9:X:214:LYS:HD3	9:X:217:THR:OG1	2.04	0.58
9:Y:209:LYS:HA	9:Y:210:ILE:HD12	1.85	0.58
1:1:102:DA:C5	1:1:103:DA:C6	2.92	0.57
3:A:260:ARG:CZ	3:A:260:ARG:HB2	2.34	0.57
3:A:590:ILE:O	3:A:590:ILE:CG2	2.52	0.57
3:A:597:ASP:CG	3:A:662:ARG:CZ	2.77	0.57
4:B:19:TRP:O	4:B:20:ALA:C	2.44	0.57
4:B:277:VAL:HG12	4:B:278:ALA:H	1.69	0.57
4:B:464:THR:CG2	4:B:469:ASN:HA	2.33	0.57
4:B:493:GLY:C	4:B:513:THR:HG21	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:600:THR:HA	4:B:785:VAL:C	2.29	0.57
5:C:85:VAL:HA	5:C:125:GLN:NE2	2.19	0.57
5:C:108:THR:HG22	5:C:124:THR:H	1.69	0.57
6:E:275:LEU:O	6:E:276:TYR:C	2.43	0.57
6:E:370:ILE:CG2	6:E:457:HIS:CD2	2.87	0.57
6:E:438:ARG:NH2	6:E:500:PRO:HB3	2.10	0.57
9:X:25:VAL:HG13	9:X:48:LEU:HD23	1.86	0.57
9:X:32:LYS:CB	9:X:94:ALA:HB3	2.34	0.57
9:X:202:MET:HE3	9:X:219:SER:CB	2.23	0.57
9:Y:35:PHE:HE2	9:Y:88:ARG:HH21	1.52	0.57
9:Y:67:ALA:C	9:Y:68:LEU:HG	2.29	0.57
9:Y:137:ILE:HA	9:Y:140:LEU:CD2	2.34	0.57
9:Y:196:ASP:HA	9:Y:200:LYS:HB2	1.86	0.57
1:1:74:DT:C2'	1:1:75:DA:H5'	2.34	0.57
1:1:117:DG:H1'	1:1:118:DG:H5'	1.85	0.57
3:A:28:PRO:O	3:A:29:ASP:C	2.47	0.57
3:A:166:ILE:HG22	3:A:167:PRO:O	2.03	0.57
3:A:569:PRO:HG2	3:A:674:SER:CB	2.34	0.57
3:A:594:THR:O	3:A:595:ASP:HB2	2.03	0.57
3:A:929:ARG:HD2	4:B:164:ARG:NH2	2.18	0.57
3:A:1035:GLN:O	3:A:1038:LEU:N	2.34	0.57
4:B:191:ALA:O	4:B:192:ASP:C	2.44	0.57
4:B:352:LYS:NZ	4:B:389:PRO:HB3	2.19	0.57
4:B:414:ASP:CG	4:B:415:GLY:H	2.10	0.57
4:B:601:GLY:HA2	4:B:782:VAL:HG23	1.85	0.57
4:B:1014:ILE:O	4:B:1015:GLU:C	2.46	0.57
5:C:38:ASN:OD1	5:C:39:ALA:N	2.37	0.57
5:D:13:THR:HG22	5:D:206:PRO:CD	2.33	0.57
5:D:166:ILE:HG12	5:D:167:ASP:O	2.04	0.57
6:E:199:ASP:C	6:E:199:ASP:OD1	2.44	0.57
6:E:224:LEU:N	6:E:224:LEU:CD2	2.67	0.57
8:G:248:LEU:HA	8:G:251:GLN:CD	2.29	0.57
9:X:177:GLN:C	9:X:180:ALA:H	2.12	0.57
9:Y:197:LEU:HD12	9:Y:198:ARG:CA	2.33	0.57
1:1:85:DG:N1	2:2:40:DC:N3	2.52	0.57
1:1:89:DA:N1	2:2:37:DT:O2	2.36	0.57
3:A:64:GLU:H	3:A:103:ASN:CA	2.10	0.57
3:A:423:HIS:C	3:A:425:SER:H	2.10	0.57
3:A:620:LYS:HG2	3:A:630:GLN:HB3	1.86	0.57
3:A:941:ASP:OD1	3:A:941:ASP:C	2.42	0.57
3:A:1087:HIS:CA	6:E:9:PHE:HB2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:98:TRP:CD1	4:B:158:PRO:HD3	2.39	0.57
4:B:100:GLY:CA	4:B:421:GLY:O	2.52	0.57
4:B:252:LYS:O	4:B:254:LYS:N	2.37	0.57
4:B:372:HIS:N	4:B:375:ASP:OD2	2.38	0.57
4:B:443:LYS:HE3	4:B:997:LEU:HB3	1.87	0.57
4:B:618:LYS:CA	4:B:621:TYR:OH	2.51	0.57
4:B:714:LEU:HB3	4:B:717:GLN:HB2	1.87	0.57
4:B:848:ALA:HA	4:B:877:LEU:CD2	2.33	0.57
4:B:900:LEU:O	4:B:901:ARG:HG3	2.05	0.57
4:B:989:GLN:H	4:B:992:ASP:CG	2.10	0.57
4:B:1113:ALA:O	4:B:1116:LYS:HB3	2.03	0.57
4:B:1171:ARG:O	4:B:1172:GLN:C	2.48	0.57
5:C:63:HIS:CA	5:C:164:LEU:HD21	2.11	0.57
5:C:148:TYR:HA	5:C:169:ILE:CA	2.21	0.57
5:D:92:SER:HB2	5:D:144:ARG:CB	2.34	0.57
6:E:286:LEU:HD13	6:E:302:GLU:HG2	1.86	0.57
6:E:299:VAL:O	6:E:302:GLU:HB3	2.04	0.57
6:E:368:LEU:HD21	6:E:372:GLN:CB	2.34	0.57
6:E:506:ILE:O	6:E:506:ILE:HG12	2.03	0.57
6:E:511:GLN:O	6:E:514:VAL:HG22	2.04	0.57
6:E:588:TYR:O	6:E:590:TYR:N	2.37	0.57
9:X:98:VAL:HG12	9:X:100:LEU:HG	1.84	0.57
1:1:91:DT:C2	1:1:92:DT:C5	2.92	0.57
1:1:112:DG:P	1:1:112:DG:H8	2.27	0.57
1:1:119:DA:H2"	1:1:120:DT:C5	2.40	0.57
2:2:65:DA:H2"	2:2:66:DA:C8	2.39	0.57
3:A:39:ARG:O	3:A:40:TRP:C	2.46	0.57
3:A:278:ASN:O	3:A:279:LYS:C	2.47	0.57
3:A:347:ILE:HG13	3:A:364:LEU:O	2.04	0.57
3:A:722:TYR:HB2	3:A:838:VAL:CG1	2.34	0.57
3:A:791:ILE:CG1	8:G:376:LEU:HD11	2.35	0.57
3:A:847:GLN:HG3	3:A:847:GLN:O	1.94	0.57
3:A:1042:SER:O	3:A:1043:ASP:OD1	2.21	0.57
3:A:1077:LEU:O	3:A:1082:LEU:HD12	2.01	0.57
3:A:1087:HIS:HB2	3:A:1097:SER:O	2.04	0.57
4:B:183:LEU:O	4:B:186:THR:N	2.36	0.57
4:B:286:LEU:HG	4:B:1142:GLU:CD	2.29	0.57
4:B:332:MET:N	4:B:332:MET:HE2	2.20	0.57
4:B:489:ASN:O	4:B:850:GLN:HA	2.04	0.57
4:B:520:GLY:C	4:B:760:GLN:OE1	2.48	0.57
4:B:561:ASN:O	4:B:563:LEU:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:573:ASN:O	4:B:589:ALA:HA	2.04	0.57
4:B:574:LEU:N	4:B:575:ARG:HH12	2.01	0.57
4:B:583:GLN:OE1	4:B:799:ILE:HG13	2.05	0.57
4:B:646:LEU:H	4:B:662:LYS:HD3	1.69	0.57
4:B:654:VAL:HG22	4:B:672:VAL:HG11	1.84	0.57
4:B:1011:LEU:O	4:B:1013:ARG:N	2.38	0.57
4:B:1156:ASP:N	4:B:1164:PRO:HB3	2.19	0.57
5:C:145:GLY:CA	5:C:149:ARG:HH22	2.17	0.57
5:C:214:ALA:CA	5:D:224:LEU:HD22	2.35	0.57
5:D:75:VAL:O	5:D:76:LEU:C	2.46	0.57
5:D:97:GLY:C	5:D:98:ARG:HH11	2.13	0.57
5:D:175:LYS:HB3	5:D:199:TRP:CD1	2.39	0.57
6:E:22:ILE:HG21	6:E:248:VAL:O	2.05	0.57
6:E:79:VAL:O	6:E:80:ARG:C	2.48	0.57
6:E:100:ARG:HA	6:E:255:ASP:OD1	2.04	0.57
6:E:146:VAL:HG22	6:E:187:GLY:N	2.19	0.57
9:Y:214:LYS:HD3	9:Y:217:THR:C	2.29	0.57
1:1:80:DA:N7	2:2:46:DT:H71	2.18	0.57
1:1:107:DG:C8	1:1:107:DG:OP2	2.55	0.57
3:A:76:GLU:HB3	3:A:77:PRO:CD	2.34	0.57
3:A:443:LEU:N	3:A:443:LEU:HD12	2.19	0.57
3:A:512:TYR:H	3:A:515:GLU:C	2.12	0.57
3:A:573:LEU:CD2	3:A:685:ASN:ND2	2.67	0.57
3:A:906:ALA:HB2	3:A:936:LEU:CD2	2.35	0.57
3:A:973:THR:C	3:A:974:ILE:HG12	2.29	0.57
4:B:134:ILE:CA	4:B:137:VAL:HG22	2.34	0.57
4:B:271:GLU:HG3	4:B:272:ILE:H	1.67	0.57
4:B:1028:ILE:CG2	4:B:1082:PRO:C	2.77	0.57
4:B:1154:ILE:HG13	4:B:1162:MET:HB3	1.87	0.57
5:C:166:ILE:HG12	5:C:167:ASP:O	2.04	0.57
5:D:8:CYS:HA	5:D:23:PHE:CD1	2.40	0.57
6:E:250:PRO:O	6:E:251:VAL:HG23	2.03	0.57
6:E:308:GLU:O	6:E:309:ALA:C	2.43	0.57
8:G:319:ARG:O	8:G:323:GLU:HG2	2.04	0.57
8:G:321:ASP:O	8:G:324:LYS:HG2	2.03	0.57
3:A:39:ARG:HB3	3:A:43:GLU:CD	2.25	0.57
3:A:122:MET:HA	3:A:128:PHE:CE1	2.40	0.57
3:A:136:VAL:CG2	3:A:137:ILE:N	2.65	0.57
3:A:198:LEU:HD21	3:A:298:LEU:HB2	1.86	0.57
3:A:255:GLN:HA	3:A:258:ASP:OD2	2.04	0.57
3:A:644:ARG:HA	3:A:719:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:751:LEU:HD21	3:A:768:ILE:CB	2.34	0.57
3:A:998:TYR:H	8:G:303:GLU:HG3	1.68	0.57
3:A:1082:LEU:O	6:E:17:ALA:HB2	2.05	0.57
4:B:107:ASP:O	4:B:108:GLU:C	2.47	0.57
4:B:277:VAL:CG1	4:B:278:ALA:N	2.68	0.57
4:B:394:SER:O	4:B:395:GLU:HB2	2.03	0.57
4:B:522:VAL:N	4:B:540:ILE:O	2.38	0.57
4:B:606:PHE:HB2	4:B:629:LEU:HA	1.86	0.57
4:B:616:LYS:C	4:B:618:LYS:H	2.13	0.57
4:B:623:VAL:HG23	4:B:623:VAL:O	2.04	0.57
4:B:790:LEU:N	4:B:790:LEU:HD23	2.18	0.57
5:C:101:VAL:HG11	5:C:107:ILE:HD12	1.86	0.57
5:C:175:LYS:HB3	5:C:199:TRP:CD1	2.39	0.57
5:D:157:GLU:O	5:D:158:ALA:C	2.47	0.57
8:G:361:THR:HG1	8:G:365:ILE:HD11	1.69	0.57
9:X:51:ALA:HA	9:X:69:LEU:O	2.04	0.57
9:Y:53:LYS:H	9:Y:95:PHE:HB3	1.69	0.57
9:Y:56:ARG:NH1	9:Y:63:GLU:HA	2.19	0.57
2:2:5:DC:C2	2:2:6:DA:N6	2.66	0.57
2:2:35:DA:C2	2:2:36:DT:N3	2.73	0.57
2:2:52:DA:C2	2:2:53:DT:C2	2.92	0.57
3:A:327:SER:O	3:A:328:VAL:C	2.45	0.57
3:A:426:HIS:O	3:A:427:TYR:C	2.45	0.57
3:A:576:THR:C	3:A:578:LEU:N	2.61	0.57
3:A:578:LEU:O	3:A:578:LEU:HG	1.95	0.57
3:A:717:ILE:O	3:A:718:HIS:CG	2.58	0.57
3:A:943:THR:C	3:A:945:LYS:H	2.13	0.57
3:A:1052:LEU:O	3:A:1053:ASN:C	2.45	0.57
4:B:29:THR:O	4:B:32:MET:HB3	2.03	0.57
4:B:82:ARG:HG2	4:B:923:VAL:HB	1.86	0.57
4:B:203:VAL:HG13	4:B:1200:ALA:HB1	1.85	0.57
4:B:296:GLN:HG3	4:B:311:LEU:CD2	2.34	0.57
4:B:369:ARG:NH1	4:B:1000:GLU:O	2.38	0.57
4:B:581:LYS:HA	4:B:815:ASP:O	2.05	0.57
4:B:614:LYS:HD3	4:B:616:LYS:O	2.04	0.57
4:B:626:GLY:C	4:B:746:VAL:H	2.10	0.57
4:B:675:THR:HB	4:B:677:LYS:CE	2.34	0.57
4:B:935:GLU:OE1	4:B:936:GLU:HA	2.05	0.57
4:B:1028:ILE:HD11	4:B:1088:SER:HB2	1.82	0.57
5:D:76:LEU:HB3	5:D:80:MET:SD	2.44	0.57
5:D:82:MET:O	5:D:84:GLU:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:181:GLU:OE1	5:D:193:ARG:O	2.23	0.57
5:D:195:LEU:HD12	5:D:195:LEU:N	2.17	0.57
5:D:201:ASN:CG	5:D:203:SER:H	2.10	0.57
6:E:386:PRO:HD2	6:E:387:PHE:H	1.70	0.57
6:E:502:THR:O	6:E:503:GLY:C	2.44	0.57
7:F:32:THR:HG1	7:F:33:VAL:N	2.03	0.57
7:F:59:LEU:N	7:F:59:LEU:CD2	2.66	0.57
8:G:157:LYS:O	8:G:157:LYS:HG2	2.04	0.57
9:X:75:PHE:HZ	9:X:100:LEU:HD13	1.69	0.57
1:1:58:DA:OP2	1:1:58:DA:H4'	2.05	0.57
3:A:873:TYR:CE1	3:A:960:TYR:HB2	2.39	0.57
3:A:880:VAL:CG2	3:A:881:ASP:N	2.65	0.57
3:A:1004:GLN:O	3:A:1005:PRO:C	2.44	0.57
4:B:23:HIS:C	4:B:24:TYR:CD1	2.83	0.57
4:B:146:LEU:CD2	4:B:156:ASP:O	2.53	0.57
4:B:177:TYR:O	4:B:178:GLY:C	2.45	0.57
4:B:196:LEU:C	4:B:198:ARG:N	2.56	0.57
4:B:388:GLU:O	4:B:397:PRO:HG3	2.04	0.57
4:B:583:GLN:NE2	4:B:799:ILE:HB	2.20	0.57
4:B:724:TYR:CE1	4:B:727:TYR:CE1	2.93	0.57
4:B:787:GLY:O	4:B:788:VAL:C	2.48	0.57
4:B:913:LYS:HZ1	4:B:914:PRO:HD2	1.70	0.57
4:B:1231:TRP:CD1	6:E:11:TYR:CD2	2.93	0.57
5:D:20:TYR:HB2	5:D:199:TRP:CZ3	2.40	0.57
6:E:63:PHE:CD2	6:E:254:PRO:HD3	2.39	0.57
6:E:384:PHE:O	6:E:385:GLN:C	2.43	0.57
8:G:309:PRO:O	8:G:313:VAL:HG12	2.04	0.57
9:X:106:GLU:HA	9:X:109:GLU:HB3	1.86	0.57
9:X:218:LEU:C	9:X:220:ARG:H	2.11	0.57
9:Y:28:PHE:N	9:Y:98:VAL:HB	2.20	0.57
9:Y:53:LYS:CG	9:Y:68:LEU:HD22	2.21	0.57
1:1:77:DA:C6	2:2:50:DG:N1	2.72	0.57
1:1:85:DG:C6	1:1:86:DG:C6	2.93	0.57
1:1:105:DG:C4	8:G:86:LEU:HD11	2.40	0.57
1:1:106:DG:C4	1:1:107:DG:C5	2.92	0.57
1:1:106:DG:C5'	8:G:171:LYS:CD	2.82	0.57
1:1:106:DG:C5'	8:G:171:LYS:HD3	2.34	0.57
3:A:159:ARG:HG2	3:A:159:ARG:HH11	1.70	0.57
3:A:374:ILE:O	3:A:375:LYS:C	2.47	0.57
3:A:427:TYR:CE2	3:A:511:ARG:NH2	2.72	0.57
3:A:495:ILE:O	3:A:496:PRO:C	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:601:VAL:O	3:A:602:ASP:C	2.43	0.57
3:A:633:GLN:HB2	3:A:635:ILE:HG23	1.86	0.57
3:A:729:THR:HG22	3:A:731:LEU:N	2.08	0.57
3:A:956:LYS:C	3:A:957:ILE:HD12	2.30	0.57
4:B:40:GLY:O	4:B:41:PHE:C	2.42	0.57
4:B:80:TYR:CD1	4:B:90:ARG:HG2	2.39	0.57
4:B:352:LYS:HZ3	4:B:389:PRO:HG3	1.70	0.57
4:B:374:GLU:HB2	4:B:416:GLN:CG	2.32	0.57
4:B:385:MET:HB2	4:B:405:THR:N	2.20	0.57
4:B:443:LYS:N	4:B:997:LEU:H	1.95	0.57
4:B:542:ALA:O	4:B:544:VAL:N	2.35	0.57
4:B:688:PRO:HG2	4:B:739:ARG:CB	2.34	0.57
4:B:714:LEU:CB	4:B:717:GLN:HB2	2.35	0.57
4:B:773:ARG:CB	4:B:792:ARG:HB3	2.34	0.57
4:B:1222:GLU:O	4:B:1224:ALA:N	2.38	0.57
5:C:85:VAL:HA	5:C:125:GLN:CD	2.30	0.57
5:C:97:GLY:C	5:C:98:ARG:HH11	2.13	0.57
5:C:207:GLN:H	5:C:207:GLN:NE2	2.02	0.57
5:D:196:LEU:HD23	5:D:196:LEU:C	2.29	0.57
5:D:201:ASN:ND2	5:D:203:SER:H	2.03	0.57
6:E:31:PRO:C	6:E:33:GLY:N	2.56	0.57
6:E:202:LEU:HG	6:E:235:ILE:HG21	1.85	0.57
6:E:216:ALA:C	6:E:219:GLN:HG2	2.30	0.57
6:E:328:ASN:O	6:E:329:ARG:CG	2.52	0.57
8:G:329:LEU:C	8:G:334:ARG:HE	2.13	0.57
2:2:31:DA:C4	2:2:32:DA:C8	2.93	0.57
3:A:183:VAL:C	3:A:184:TRP:CG	2.82	0.57
3:A:393:LEU:O	3:A:397:THR:HG22	2.04	0.57
3:A:577:GLY:CA	3:A:915:LYS:HD2	2.35	0.57
3:A:614:LEU:N	3:A:615:PRO:HD2	2.20	0.57
3:A:616:THR:O	3:A:619:GLY:CA	2.53	0.57
3:A:703:LEU:O	3:A:704:ILE:HD13	2.05	0.57
3:A:1032:TYR:HH	4:B:1249:THR:HG23	1.70	0.57
3:A:1044:ASP:OD2	3:A:1065:GLY:N	2.35	0.57
4:B:91:PHE:HE1	4:B:156:ASP:CB	2.17	0.57
4:B:936:GLU:HG2	4:B:966:ILE:O	2.04	0.57
5:C:228:SER:HB3	5:D:7:GLU:HA	1.85	0.57
5:D:43:VAL:HG13	5:D:44:LEU:N	2.20	0.57
5:D:85:VAL:HA	5:D:125:GLN:NE2	2.19	0.57
6:E:122:PRO:HB2	6:E:127:ILE:HD11	0.70	0.57
6:E:515:LEU:O	6:E:516:GLY:C	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:37:ASN:O	7:F:40:LYS:HB3	2.05	0.57
8:G:120:LEU:HD23	8:G:128:PRO:CB	2.31	0.57
8:G:386:LYS:NZ	9:X:39:ASP:HB3	2.20	0.57
9:X:108:VAL:HG21	9:X:122:MET:HE2	1.81	0.57
9:X:108:VAL:O	9:X:108:VAL:HG12	2.04	0.57
1:1:77:DA:H2	2:2:49:DT:O2	1.87	0.56
1:1:115:DA:H2"	1:1:116:DC:H2'	1.87	0.56
2:2:43:DG:C2	2:2:44:DA:C5	2.93	0.56
3:A:159:ARG:HG2	3:A:159:ARG:NH1	2.20	0.56
3:A:470:ARG:HG3	3:A:470:ARG:O	2.04	0.56
3:A:887:LEU:HD11	4:B:131:ARG:NH1	2.19	0.56
3:A:1086:VAL:HG23	3:A:1086:VAL:O	2.05	0.56
4:B:75:ALA:O	4:B:78:VAL:HB	2.04	0.56
4:B:96:ASP:CB	4:B:422:GLN:HB3	2.35	0.56
4:B:164:ARG:O	4:B:165:GLU:C	2.47	0.56
4:B:205:GLN:HA	4:B:317:ILE:HG23	1.87	0.56
4:B:216:THR:CG2	4:B:288:CYS:HA	2.29	0.56
4:B:256:VAL:O	4:B:256:VAL:HG13	2.05	0.56
4:B:332:MET:HE1	4:B:1007:ILE:CG1	2.35	0.56
4:B:566:THR:HB	4:B:753:PRO:HG3	1.87	0.56
4:B:694:VAL:HG22	4:B:695:ASP:N	2.20	0.56
4:B:856:SER:OG	4:B:873:ARG:NE	2.38	0.56
4:B:902:HIS:O	4:B:906:ALA:HA	2.05	0.56
4:B:935:GLU:OE2	4:B:936:GLU:HB2	2.05	0.56
4:B:1237:GLU:O	4:B:1239:VAL:N	2.38	0.56
5:C:201:ASN:ND2	5:C:203:SER:H	2.03	0.56
6:E:413:PRO:HA	6:E:416:TRP:NE1	2.20	0.56
6:E:428:VAL:HG12	6:E:429:MET:N	2.16	0.56
6:E:514:VAL:CG2	6:E:515:LEU:N	2.64	0.56
6:E:566:SER:OG	6:E:567:ASP:N	2.38	0.56
8:G:287:GLU:O	8:G:288:THR:C	2.41	0.56
8:G:351:LEU:O	8:G:354:ILE:CG2	2.53	0.56
9:X:45:TYR:HD1	9:X:102:SER:OG	1.88	0.56
1:1:59:DT:H2"	1:1:60:DT:C7	2.35	0.56
1:1:59:DT:H1'	1:1:60:DT:C6	2.40	0.56
1:1:97:DT:N3	1:1:98:DG:C6	2.73	0.56
1:1:119:DA:C2	2:2:6:DA:C5	2.93	0.56
2:2:59:DG:H3'	2:2:60:DC:H6	1.69	0.56
3:A:81:VAL:O	3:A:82:GLU:C	2.46	0.56
3:A:423:HIS:C	3:A:425:SER:N	2.59	0.56
3:A:773:VAL:HB	3:A:799:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:105:LEU:HD23	4:B:143:MET:H	1.70	0.56
4:B:134:ILE:O	4:B:137:VAL:HG22	2.04	0.56
4:B:759:SER:N	4:B:761:GLN:HG2	2.19	0.56
4:B:774:LEU:CD1	4:B:790:LEU:HB2	2.34	0.56
4:B:854:GLN:C	4:B:855:THR:HG23	2.29	0.56
4:B:925:GLY:O	4:B:933:PHE:HB3	2.05	0.56
4:B:1051:VAL:HG12	4:B:1052:ILE:HG12	1.87	0.56
4:B:1221:THR:O	4:B:1222:GLU:C	2.42	0.56
5:C:54:THR:C	5:C:166:ILE:HG22	2.30	0.56
5:C:220:LEU:O	5:C:223:PRO:HD2	2.06	0.56
5:D:88:LYS:HE2	5:D:90:TYR:CE1	2.40	0.56
5:D:98:ARG:HA	5:D:139:GLU:HB3	1.87	0.56
5:D:207:GLN:O	5:D:208:GLU:C	2.42	0.56
6:E:114:HIS:HB3	6:E:117:TYR:CD2	2.39	0.56
6:E:414:SER:C	6:E:418:VAL:HG12	2.30	0.56
7:F:36:ALA:C	7:F:38:ARG:N	2.58	0.56
8:G:128:PRO:O	8:G:130:ASP:N	2.38	0.56
8:G:259:GLU:CB	8:G:270:ILE:HD12	2.35	0.56
9:Y:36:PHE:CD1	9:Y:91:HIS:CG	2.91	0.56
1:1:81:DT:C2	1:1:82:DT:C5	2.94	0.56
1:1:88:DA:C5'	1:1:88:DA:C8	2.88	0.56
1:1:98:DG:C4	1:1:99:DT:O4	2.57	0.56
1:1:109:DG:C2	1:1:110:DC:N4	2.73	0.56
1:1:119:DA:C5	2:2:6:DA:C6	2.94	0.56
2:2:35:DA:C6	2:2:36:DT:O4	2.57	0.56
2:2:46:DT:H72	2:2:47:DT:C6	2.40	0.56
3:A:41:PHE:CD2	3:A:42:LEU:N	2.73	0.56
3:A:169:ARG:CZ	3:A:268:ASP:HB2	2.36	0.56
3:A:169:ARG:NH2	3:A:268:ASP:HB2	2.21	0.56
3:A:209:ILE:O	3:A:216:PRO:HG3	2.04	0.56
3:A:420:ARG:C	3:A:421:ASP:OD1	2.48	0.56
3:A:434:GLU:C	3:A:435:THR:OG1	2.47	0.56
3:A:512:TYR:C	3:A:515:GLU:H	2.12	0.56
3:A:527:VAL:HG22	3:A:528:ALA:N	2.21	0.56
3:A:551:ASN:O	3:A:554:LEU:CB	2.53	0.56
3:A:573:LEU:HD23	3:A:685:ASN:ND2	2.19	0.56
3:A:593:ARG:HG3	3:A:594:THR:OG1	2.05	0.56
3:A:1015:GLN:NE2	6:E:359:ARG:HG3	2.21	0.56
4:B:33:ALA:O	4:B:34:ASP:C	2.43	0.56
4:B:283:ARG:CG	4:B:298:CYS:HA	2.35	0.56
4:B:311:LEU:HD13	4:B:1251:TYR:OH	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:326:PRO:O	4:B:329:GLN:N	2.27	0.56
4:B:330:LEU:HD21	4:B:1134:ILE:HD11	1.86	0.56
4:B:352:LYS:CE	4:B:358:LYS:HZ1	2.15	0.56
4:B:456:ALA:O	4:B:458:VAL:N	2.28	0.56
4:B:518:ILE:HG22	4:B:805:GLN:HB2	1.87	0.56
4:B:602:GLY:O	4:B:782:VAL:HG22	2.04	0.56
4:B:629:LEU:N	4:B:744:PHE:O	2.38	0.56
4:B:910:ILE:HD11	4:B:912:ALA:HB3	1.87	0.56
4:B:982:ILE:HG22	4:B:983:GLU:HB3	1.88	0.56
4:B:1053:GLU:HB2	4:B:1058:VAL:O	2.05	0.56
5:C:3:GLN:HA	5:C:27:PRO:CG	2.35	0.56
5:C:78:ILE:C	5:C:80:MET:H	2.12	0.56
5:C:81:ARG:O	5:C:84:GLU:OE2	2.22	0.56
5:C:98:ARG:HA	5:C:139:GLU:HB3	1.87	0.56
6:E:100:ARG:HG2	6:E:255:ASP:OD1	2.03	0.56
6:E:226:LYS:C	6:E:228:LEU:N	2.56	0.56
6:E:255:ASP:CG	6:E:256:LEU:N	2.57	0.56
6:E:298:ILE:O	6:E:300:ARG:N	2.38	0.56
6:E:299:VAL:HG13	6:E:300:ARG:N	2.19	0.56
6:E:400:ASN:CG	6:E:403:ALA:H	2.04	0.56
6:E:449:VAL:HG12	6:E:450:GLU:N	2.20	0.56
6:E:483:SER:CA	6:E:486:GLU:OE2	2.44	0.56
6:E:590:TYR:CD1	6:E:607:TYR:HB3	2.35	0.56
7:F:64:GLU:HA	7:F:68:GLU:HB3	1.85	0.56
8:G:127:ASP:HB2	8:G:129:ARG:HH11	1.71	0.56
8:G:130:ASP:OD1	8:G:133:TRP:C	2.47	0.56
8:G:189:LEU:O	8:G:190:GLY:C	2.43	0.56
8:G:217:ALA:O	8:G:218:ILE:C	2.44	0.56
8:G:318:LEU:HD12	8:G:388:TYR:CZ	2.38	0.56
9:X:119:SER:O	9:X:123:LEU:HD13	2.04	0.56
9:Y:57:VAL:HG22	9:Y:63:GLU:HG2	1.86	0.56
2:2:50:DG:P	9:X:176:HIS:CE1	2.99	0.56
3:A:454:ASN:O	3:A:455:GLN:C	2.48	0.56
3:A:735:GLU:OE1	3:A:735:GLU:N	2.38	0.56
3:A:810:GLU:C	3:A:811:LYS:HG2	2.29	0.56
4:B:222:VAL:O	4:B:279:GLU:HG3	2.05	0.56
4:B:460:PRO:HA	4:B:474:ALA:CA	2.33	0.56
4:B:524:ARG:HA	4:B:861:ASP:OD1	2.05	0.56
4:B:581:LYS:HG3	4:B:814:ALA:CB	2.33	0.56
4:B:1016:GLU:O	4:B:1017:LEU:C	2.40	0.56
4:B:1032:ARG:H	4:B:1100:LEU:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1061:TYR:O	4:B:1061:TYR:CG	2.49	0.56
4:B:1086:GLY:O	4:B:1087:PRO:C	2.47	0.56
5:C:3:GLN:HA	5:C:27:PRO:HG3	1.88	0.56
5:C:20:TYR:HB2	5:C:199:TRP:HZ3	1.68	0.56
5:C:75:VAL:O	5:C:76:LEU:C	2.46	0.56
5:D:20:TYR:HA	5:D:198:VAL:O	2.05	0.56
5:D:51:THR:HG21	5:D:89:SER:HB3	1.86	0.56
5:D:207:GLN:H	5:D:207:GLN:NE2	2.02	0.56
6:E:210:ARG:CA	6:E:213:ILE:HG12	2.31	0.56
6:E:292:ILE:HG22	6:E:292:ILE:O	2.05	0.56
6:E:370:ILE:HG23	6:E:457:HIS:CE1	2.40	0.56
6:E:512:ASP:O	6:E:513:MET:C	2.48	0.56
8:G:200:HIS:CD2	8:G:201:GLU:OE2	2.59	0.56
8:G:231:LEU:HB2	8:G:236:TYR:HE2	1.70	0.56
8:G:351:LEU:HB2	8:G:365:ILE:HG21	1.85	0.56
9:Y:35:PHE:HD1	9:Y:36:PHE:O	1.88	0.56
9:Y:211:THR:O	9:Y:211:THR:OG1	2.21	0.56
1:1:116:DC:C6	1:1:117:DG:C5	2.93	0.56
2:2:5:DC:C4	2:2:6:DA:N6	2.69	0.56
2:2:36:DT:H4'	2:2:37:DT:OP1	2.04	0.56
2:2:47:DT:H5"	2:2:47:DT:C6	2.40	0.56
3:A:53:PHE:HZ	3:A:344:GLU:HB2	1.69	0.56
3:A:226:GLU:OE1	3:A:226:GLU:N	2.39	0.56
3:A:238:LEU:HB3	3:A:256:LEU:CD2	2.36	0.56
3:A:360:THR:C	3:A:362:ALA:H	2.12	0.56
3:A:388:ASP:O	3:A:388:ASP:CG	2.44	0.56
3:A:494:ASP:HB2	3:A:531:PRO:HB3	1.86	0.56
3:A:494:ASP:C	3:A:495:ILE:HD12	2.30	0.56
3:A:961:ASP:CG	3:A:961:ASP:O	2.44	0.56
4:B:43:TYR:CD2	6:E:520:LEU:HD12	2.39	0.56
4:B:96:ASP:HB2	4:B:422:GLN:HB3	1.86	0.56
4:B:201:VAL:CG1	4:B:202:ASP:N	2.63	0.56
4:B:286:LEU:HG	4:B:1142:GLU:CG	2.36	0.56
4:B:449:LEU:C	4:B:990:ARG:HD3	2.30	0.56
4:B:514:LYS:HZ2	4:B:873:ARG:NE	1.98	0.56
4:B:574:LEU:HD12	4:B:574:LEU:N	2.21	0.56
4:B:642:ASP:HA	4:B:680:ILE:HB	1.87	0.56
4:B:646:LEU:H	4:B:662:LYS:CG	2.18	0.56
4:B:655:GLU:C	4:B:657:GLY:N	2.61	0.56
4:B:675:THR:OG1	4:B:683:GLU:HG3	2.06	0.56
5:C:19:HIS:HB2	5:C:200:THR:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:82:MET:O	5:C:84:GLU:N	2.38	0.56
6:E:321:ARG:O	6:E:322:THR:C	2.44	0.56
6:E:519:TYR:CD2	6:E:519:TYR:C	2.83	0.56
6:E:533:LYS:C	6:E:556:VAL:CG1	2.74	0.56
8:G:255:ARG:O	8:G:256:LYS:C	2.47	0.56
9:X:44:VAL:HG21	9:X:108:VAL:HG21	1.86	0.56
9:X:183:ILE:O	9:Y:143:ARG:HD2	2.06	0.56
9:Y:27:THR:HA	9:Y:98:VAL:CG1	2.36	0.56
9:Y:216:VAL:O	9:Y:220:ARG:N	2.38	0.56
1:1:119:DA:H3'	1:1:119:DA:P	2.45	0.56
2:2:45:DA:H1'	2:2:46:DT:O5'	2.06	0.56
3:A:32:GLU:CD	3:A:33:ILE:N	2.64	0.56
3:A:258:ASP:HA	3:A:262:PHE:CD1	2.41	0.56
3:A:297:ILE:O	3:A:298:LEU:C	2.44	0.56
3:A:324:ARG:NH1	3:A:456:TYR:O	2.38	0.56
3:A:350:ARG:NH2	3:A:363:SER:O	2.39	0.56
3:A:599:VAL:HG11	3:A:613:GLN:CB	2.32	0.56
3:A:618:SER:C	3:A:620:LYS:N	2.63	0.56
3:A:729:THR:C	3:A:731:LEU:N	2.61	0.56
3:A:737:THR:CB	3:A:739:GLU:H	2.18	0.56
3:A:739:GLU:C	3:A:740:ILE:HD12	2.30	0.56
3:A:968:PHE:CE1	3:A:970:ARG:HB3	2.40	0.56
3:A:1028:PHE:HD2	6:E:491:MET:CE	2.10	0.56
3:A:1054:ALA:CA	3:A:1059:LYS:HZ1	2.16	0.56
3:A:1057:LYS:HD3	3:A:1059:LYS:HG2	1.88	0.56
4:B:11:GLY:HA2	4:B:14:ARG:HD2	1.88	0.56
4:B:68:ALA:C	4:B:419:LYS:HG3	2.31	0.56
4:B:75:ALA:O	4:B:78:VAL:N	2.38	0.56
4:B:269:ALA:O	4:B:271:GLU:N	2.38	0.56
4:B:299:TYR:CE2	4:B:1139:LYS:HD2	2.41	0.56
4:B:301:TRP:HA	4:B:308:MET:CA	2.33	0.56
4:B:304:ALA:CB	6:E:438:ARG:HH21	2.11	0.56
4:B:465:ASP:OD1	4:B:466:ARG:N	2.39	0.56
4:B:518:ILE:CG2	4:B:805:GLN:HB2	2.35	0.56
4:B:558:GLY:HA2	4:B:559:ARG:NH1	2.18	0.56
4:B:653:TYR:CE1	4:B:671:VAL:N	2.74	0.56
4:B:1048:ALA:HB1	4:B:1050:LYS:HD3	1.87	0.56
4:B:1122:VAL:O	4:B:1125:VAL:N	2.39	0.56
4:B:1151:LYS:HG2	4:B:1169:GLU:HA	1.86	0.56
5:C:5:GLN:O	5:C:26:GLU:HG2	2.06	0.56
5:C:16:SER:HA	5:C:19:HIS:NE2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:118:VAL:C	5:C:119:GLU:OE1	2.48	0.56
5:C:156:GLU:HG3	5:C:165:GLN:HE21	1.70	0.56
6:E:480:SER:O	6:E:481:LEU:C	2.42	0.56
6:E:541:VAL:O	6:E:542:ILE:C	2.42	0.56
6:E:620:GLN:OE1	6:E:621:GLU:N	2.38	0.56
7:F:32:THR:O	7:F:34:GLN:N	2.38	0.56
8:G:112:GLU:O	8:G:113:LEU:C	2.47	0.56
8:G:258:THR:HB	8:G:261:GLU:HB3	1.88	0.56
9:Y:80:LEU:HD12	9:Y:80:LEU:C	2.30	0.56
1:1:86:DG:OP2	1:1:86:DG:H8	1.89	0.56
1:1:93:DT:C2	1:1:94:DT:C5	2.94	0.56
1:1:99:DT:C1'	8:G:212:TRP:CZ3	2.88	0.56
1:1:102:DA:H1'	1:1:103:DA:C5'	2.34	0.56
1:1:102:DA:C4	1:1:103:DA:C5	2.93	0.56
1:1:107:DG:C6	1:1:108:DA:N6	2.73	0.56
2:2:35:DA:C8	2:2:36:DT:H73	2.41	0.56
3:A:40:TRP:O	3:A:41:PHE:C	2.49	0.56
3:A:609:ARG:C	3:A:633:GLN:O	2.49	0.56
3:A:771:GLY:HA2	3:A:803:SER:HA	1.87	0.56
3:A:774:THR:H	3:A:799:VAL:HG13	1.71	0.56
3:A:791:ILE:HD12	3:A:791:ILE:N	2.17	0.56
4:B:105:LEU:O	4:B:108:GLU:N	2.39	0.56
4:B:352:LYS:NZ	4:B:389:PRO:HG3	2.19	0.56
4:B:510:LEU:H	4:B:875:GLN:HE22	1.52	0.56
4:B:629:LEU:O	4:B:744:PHE:N	2.39	0.56
4:B:642:ASP:OD1	4:B:643:ILE:N	2.39	0.56
4:B:866:VAL:O	4:B:869:SER:HB2	2.05	0.56
4:B:1090:PRO:C	4:B:1093:ILE:HG12	2.31	0.56
5:C:35:THR:HB	5:D:42:ARG:NE	2.21	0.56
5:C:94:ALA:HA	5:C:142:ILE:O	2.05	0.56
5:C:228:SER:CB	5:D:7:GLU:HA	2.35	0.56
5:D:85:VAL:HA	5:D:125:GLN:CD	2.30	0.56
8:G:203:GLY:O	8:G:204:TYR:C	2.49	0.56
9:X:43:ARG:NH2	9:X:103:ALA:HB3	2.20	0.56
9:Y:206:HIS:HB2	9:Y:209:LYS:CG	2.36	0.56
1:1:73:DA:C2'	1:1:74:DT:H71	2.35	0.56
2:2:35:DA:H2'	2:2:36:DT:C5	2.41	0.56
2:2:47:DT:C2'	2:2:48:DT:H71	2.27	0.56
2:2:52:DA:N1	2:2:53:DT:C4	2.74	0.56
3:A:31:ILE:C	3:A:33:ILE:H	2.14	0.56
3:A:83:GLU:O	3:A:84:ALA:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:180:ASN:HD21	3:A:182:LEU:C	2.09	0.56
3:A:214:ARG:C	3:A:215:HIS:CD2	2.84	0.56
3:A:410:LEU:N	3:A:410:LEU:HD12	2.20	0.56
3:A:598:VAL:HG13	3:A:598:VAL:O	2.05	0.56
3:A:600:TYR:CD2	3:A:607:ARG:NH2	2.74	0.56
3:A:896:GLY:O	3:A:899:PHE:HB2	2.06	0.56
3:A:942:GLU:CD	3:A:942:GLU:N	2.54	0.56
4:B:199:ARG:HH11	4:B:199:ARG:HG3	1.71	0.56
4:B:457:GLU:HG3	4:B:479:LEU:HD13	1.88	0.56
4:B:766:ILE:HD11	4:B:834:ILE:HD13	1.86	0.56
4:B:775:PRO:HD3	4:B:789:GLU:O	2.06	0.56
4:B:937:SER:HB2	4:B:971:PRO:HD2	1.88	0.56
4:B:1115:GLN:O	4:B:1119:THR:HG23	2.06	0.56
5:D:102:ASN:OD1	5:D:135:LYS:HA	2.06	0.56
6:E:261:GLN:NE2	6:E:262:LEU:O	2.36	0.56
6:E:263:ASP:C	6:E:265:GLY:H	2.12	0.56
6:E:296:GLU:HA	6:E:299:VAL:HG12	1.88	0.56
6:E:315:ASP:OD2	6:E:318:ARG:NH1	2.35	0.56
8:G:88:GLU:OE2	8:G:89:ILE:N	2.38	0.56
9:X:112:LEU:HD12	9:X:122:MET:HG3	1.88	0.56
9:Y:36:PHE:CE1	9:Y:91:HIS:NE2	2.70	0.56
9:Y:40:PRO:HA	9:Y:88:ARG:HD3	1.87	0.56
9:Y:197:LEU:HA	9:Y:203:ILE:O	2.06	0.56
1:1:111:DT:OP2	1:1:111:DT:C6	2.57	0.56
3:A:63:LEU:HD21	3:A:359:LEU:HD23	1.88	0.56
3:A:180:ASN:ND2	3:A:182:LEU:O	2.21	0.56
3:A:218:TYR:O	3:A:219:PHE:CD2	2.59	0.56
3:A:454:ASN:C	3:A:456:TYR:N	2.62	0.56
3:A:772:LYS:HG2	3:A:773:VAL:N	2.20	0.56
3:A:1091:THR:CG2	3:A:1092:GLN:N	2.69	0.56
4:B:101:THR:HG22	4:B:420:LYS:CB	2.28	0.56
4:B:259:PRO:HG2	4:B:260:ARG:H	1.71	0.56
4:B:464:THR:HA	4:B:467:GLN:HE22	1.71	0.56
4:B:497:VAL:HG22	4:B:510:LEU:O	2.05	0.56
4:B:621:TYR:CE2	4:B:774:LEU:C	2.84	0.56
4:B:700:VAL:HG23	4:B:715:LEU:HD21	1.88	0.56
4:B:760:GLN:HE21	4:B:764:ARG:CB	2.19	0.56
4:B:766:ILE:HG12	4:B:799:ILE:HG23	1.88	0.56
4:B:919:GLY:C	4:B:939:GLN:HG2	2.30	0.56
5:C:42:ARG:O	5:C:43:VAL:C	2.44	0.56
5:D:15:GLU:O	5:D:16:SER:C	2.49	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:54:THR:C	5:D:166:ILE:HG22	2.30	0.56
6:E:17:ALA:HB2	6:E:25:TRP:CH2	2.41	0.56
6:E:28:ARG:NH2	6:E:102:ARG:NE	2.47	0.56
6:E:220:LYS:CE	6:E:223:LYS:CD	2.78	0.56
6:E:256:LEU:HD12	6:E:256:LEU:H	1.68	0.56
6:E:481:LEU:CG	6:E:482:GLU:N	2.64	0.56
8:G:200:HIS:C	8:G:201:GLU:OE1	2.48	0.56
8:G:326:LEU:HD12	8:G:327:ASP:N	2.21	0.56
8:G:356:GLN:HA	8:G:360:VAL:N	2.20	0.56
8:G:386:LYS:HZ3	9:X:39:ASP:HB3	1.71	0.56
9:Y:47:LEU:CD2	9:Y:52:VAL:HB	2.35	0.56
1:1:60:DT:H2"	1:1:61:DT:H71	1.88	0.56
2:2:43:DG:C2	2:2:44:DA:C6	2.94	0.56
3:A:113:GLU:O	3:A:114:VAL:HG13	2.06	0.56
3:A:158:ARG:HB3	3:A:179:ARG:HD2	1.88	0.56
3:A:406:GLY:O	3:A:409:GLY:N	2.38	0.56
3:A:886:PRO:O	3:A:887:LEU:C	2.49	0.56
3:A:1010:ALA:N	3:A:1011:GLN:OE1	2.39	0.56
3:A:1033:THR:HG22	6:E:483:SER:OG	2.06	0.56
4:B:88:VAL:HG12	4:B:89:GLU:CD	2.31	0.56
4:B:545:VAL:HG13	4:B:829:ARG:CD	2.36	0.56
4:B:603:PHE:H	4:B:781:ARG:HH11	1.54	0.56
4:B:913:LYS:N	4:B:915:LYS:HG2	2.21	0.56
4:B:941:VAL:HG12	4:B:965:THR:HB	1.88	0.56
4:B:1117:VAL:O	4:B:1120:PHE:CB	2.49	0.56
4:B:1151:LYS:HE2	4:B:1169:GLU:HA	1.87	0.56
5:C:214:ALA:HB3	5:D:225:LYS:HG2	1.87	0.56
5:D:142:ILE:C	5:D:143:GLU:OE1	2.49	0.56
6:E:28:ARG:NE	6:E:102:ARG:CZ	2.69	0.56
6:E:331:LEU:N	6:E:331:LEU:CD1	2.59	0.56
6:E:376:PRO:HB2	6:E:379:MET:HG3	1.88	0.56
6:E:481:LEU:O	6:E:482:GLU:C	2.44	0.56
6:E:520:LEU:HD21	6:E:611:GLY:CA	2.35	0.56
6:E:551:ASP:O	6:E:610:PRO:HG2	2.06	0.56
8:G:139:LEU:HD23	8:G:144:PHE:HD1	1.70	0.56
8:G:200:HIS:NE2	8:G:201:GLU:OE2	2.39	0.56
9:X:144:ASP:C	9:X:148:ARG:NE	2.56	0.56
1:1:113:DT:O4	2:2:13:DA:N1	2.39	0.55
1:1:119:DA:C6	2:2:6:DA:C5	2.94	0.55
3:A:203:GLY:C	3:A:205:SER:H	2.13	0.55
3:A:271:ARG:N	3:A:290:ARG:HH22	2.02	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:335:GLN:C	3:A:335:GLN:CD	2.74	0.55
3:A:609:ARG:HD3	3:A:636:ARG:HA	0.80	0.55
3:A:751:LEU:HD21	3:A:768:ILE:CG2	2.36	0.55
3:A:759:ILE:HG23	3:A:815:VAL:O	2.04	0.55
3:A:869:GLU:HG2	5:C:45:LEU:HB2	1.86	0.55
3:A:1046:GLN:C	3:A:1046:GLN:CD	2.73	0.55
3:A:1053:ASN:O	3:A:1054:ALA:C	2.48	0.55
4:B:89:GLU:HB3	4:B:370:THR:C	2.31	0.55
4:B:91:PHE:CE1	4:B:156:ASP:CB	2.89	0.55
4:B:359:LEU:CD1	4:B:387:LEU:HA	2.36	0.55
4:B:481:TRP:HD1	4:B:969:GLY:C	2.14	0.55
4:B:645:LEU:H	4:B:662:LYS:HD3	1.72	0.55
4:B:710:PRO:HG3	4:B:721:GLU:C	2.30	0.55
4:B:739:ARG:HH12	4:B:781:ARG:NE	2.03	0.55
5:D:71:VAL:O	5:D:71:VAL:HG13	2.04	0.55
5:D:88:LYS:H	5:D:121:ILE:HD11	1.71	0.55
5:D:106:THR:OG1	5:D:107:ILE:N	2.38	0.55
5:D:127:VAL:HG12	5:D:128:ALA:HB2	1.88	0.55
5:D:215:GLY:O	5:D:216:ILE:C	2.43	0.55
6:E:225:ILE:HG13	6:E:226:LYS:N	2.21	0.55
6:E:467:ASP:HB3	6:E:469:ASP:H	1.71	0.55
8:G:339:LEU:HB3	8:G:354:ILE:HD12	1.87	0.55
8:G:385:LEU:HD12	8:G:385:LEU:C	2.31	0.55
9:X:88:ARG:CG	9:X:90:TYR:O	2.54	0.55
9:Y:162:VAL:HG11	9:Y:171:ASP:HB2	1.87	0.55
1:1:89:DA:N3	1:1:90:DA:O4'	2.38	0.55
1:1:110:DC:H2"	1:1:111:DT:C6	2.40	0.55
3:A:70:HIS:ND1	3:A:70:HIS:C	2.62	0.55
3:A:77:PRO:C	3:A:78:LYS:HE2	2.31	0.55
3:A:285:VAL:HG12	3:A:289:VAL:CG1	2.35	0.55
3:A:487:ASP:OD1	3:A:512:TYR:OH	2.21	0.55
3:A:591:VAL:O	3:A:593:ARG:N	2.39	0.55
3:A:633:GLN:N	3:A:633:GLN:OE1	2.38	0.55
3:A:789:ARG:NH1	3:A:794:GLU:O	2.39	0.55
3:A:865:ILE:HD12	3:A:865:ILE:N	2.19	0.55
3:A:961:ASP:O	3:A:962:GLY:C	2.49	0.55
3:A:1032:TYR:N	3:A:1032:TYR:CD1	2.70	0.55
4:B:27:ALA:HB2	7:F:15:MET:HE2	1.87	0.55
4:B:96:ASP:OD1	4:B:423:LEU:CD2	2.54	0.55
4:B:250:HIS:CE1	4:B:252:LYS:HZ2	2.24	0.55
4:B:377:LEU:O	4:B:378:PHE:CG	2.59	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:480:ILE:O	4:B:972:TYR:N	2.39	0.55
4:B:794:GLN:HG2	4:B:795:LEU:H	1.69	0.55
4:B:1040:TYR:HB3	4:B:1048:ALA:O	2.05	0.55
4:B:1173:VAL:HG13	4:B:1174:GLU:H	1.71	0.55
4:B:1226:GLU:C	4:B:1228:LYS:N	2.60	0.55
5:C:191:LYS:C	5:C:192:ASP:CG	2.73	0.55
5:D:178:TYR:C	5:D:178:TYR:CD2	2.80	0.55
5:D:191:LYS:C	5:D:192:ASP:CG	2.73	0.55
6:E:232:ASP:O	6:E:235:ILE:HG12	2.05	0.55
9:X:42:GLU:CA	9:X:78:LEU:HD13	2.24	0.55
9:X:88:ARG:HH22	9:X:129:ARG:HH22	1.55	0.55
1:1:58:DA:N3	1:1:59:DT:N3	2.53	0.55
1:1:75:DA:C6	1:1:76:DC:C4	2.95	0.55
1:1:97:DT:H1'	1:1:98:DG:H5'	1.89	0.55
1:1:108:DA:H2"	1:1:109:DG:O5'	2.05	0.55
2:2:6:DA:H2"	2:2:7:DT:O5'	2.07	0.55
3:A:47:ILE:O	3:A:48:GLU:C	2.48	0.55
3:A:596:GLY:HA3	3:A:615:PRO:HA	1.86	0.55
3:A:683:GLY:C	3:A:684:GLN:HG3	2.19	0.55
3:A:873:TYR:CB	3:A:879:PRO:HA	2.37	0.55
3:A:1032:TYR:N	3:A:1032:TYR:HD1	2.03	0.55
3:A:1044:ASP:O	3:A:1045:MET:C	2.43	0.55
4:B:16:LEU:O	4:B:19:TRP:HB3	2.06	0.55
4:B:79:ARG:HD2	4:B:85:ILE:HG21	1.88	0.55
4:B:236:SER:O	4:B:237:THR:C	2.47	0.55
4:B:366:ARG:CZ	4:B:369:ARG:NE	2.69	0.55
4:B:440:LYS:HB3	4:B:998:VAL:CG2	2.36	0.55
4:B:515:LEU:O	4:B:871:VAL:N	2.39	0.55
4:B:919:GLY:N	4:B:940:ILE:O	2.40	0.55
4:B:1130:GLN:O	4:B:1133:GLY:N	2.39	0.55
5:D:64:GLU:N	5:D:64:GLU:CD	2.64	0.55
6:E:98:VAL:HG12	6:E:102:ARG:CZ	2.36	0.55
6:E:125:ILE:O	6:E:129:LEU:CD1	2.53	0.55
6:E:588:TYR:C	6:E:590:TYR:N	2.58	0.55
8:G:88:GLU:O	8:G:89:ILE:C	2.44	0.55
8:G:194:ALA:C	8:G:196:GLU:H	2.14	0.55
8:G:314:SER:HB2	8:G:390:ARG:NE	2.21	0.55
1:1:77:DA:C2	2:2:49:DT:O2	2.57	0.55
1:1:86:DG:H1'	1:1:87:DA:O4'	2.06	0.55
1:1:114:DC:C1'	1:1:115:DA:H5'	2.35	0.55
1:1:117:DG:H1'	1:1:118:DG:O5'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:165:LEU:C	3:A:166:ILE:HD12	2.31	0.55
3:A:296:ASP:OD1	3:A:297:ILE:HG13	2.06	0.55
3:A:506:PRO:HA	3:A:521:PRO:HD3	1.87	0.55
3:A:888:GLY:C	3:A:890:PRO:HD3	2.32	0.55
4:B:68:ALA:O	4:B:71:GLU:N	2.38	0.55
4:B:69:ALA:HA	4:B:419:LYS:CB	2.37	0.55
4:B:97:THR:O	4:B:421:GLY:O	2.24	0.55
4:B:207:VAL:O	4:B:315:VAL:HG12	2.05	0.55
4:B:214:CYS:SG	4:B:215:GLY:N	2.79	0.55
4:B:242:ARG:H	4:B:264:ILE:CG2	2.19	0.55
4:B:286:LEU:O	4:B:1146:ARG:NH1	2.40	0.55
4:B:295:CYS:HB2	4:B:298:CYS:HB3	1.88	0.55
4:B:367:THR:C	4:B:370:THR:H	2.13	0.55
4:B:458:VAL:HG21	4:B:478:GLY:H	1.71	0.55
4:B:503:ARG:HH22	4:B:505:GLU:HB3	1.71	0.55
4:B:524:ARG:CD	4:B:540:ILE:HG13	2.36	0.55
4:B:527:GLU:O	4:B:530:PRO:HD3	2.06	0.55
4:B:536:GLU:O	4:B:538:GLU:OE1	2.24	0.55
4:B:630:LEU:HB3	4:B:743:GLU:OE1	2.07	0.55
4:B:789:GLU:OE2	4:B:792:ARG:N	2.39	0.55
4:B:1088:SER:HG	4:B:1093:ILE:HG21	1.71	0.55
4:B:1119:THR:HG1	4:B:1120:PHE:H	1.50	0.55
5:C:142:ILE:C	5:C:143:GLU:OE1	2.49	0.55
5:D:149:ARG:HH11	5:D:150:THR:C	2.15	0.55
6:E:62:ILE:HG13	6:E:63:PHE:CE1	2.41	0.55
6:E:147:VAL:HG11	6:E:157:THR:O	2.06	0.55
6:E:185:GLU:HG3	6:E:195:ARG:HH11	1.67	0.55
6:E:256:LEU:N	6:E:256:LEU:CD1	2.64	0.55
6:E:402:LYS:HA	6:E:405:LYS:HD3	1.88	0.55
6:E:409:SER:HG	6:E:410:ARG:NH1	2.05	0.55
8:G:110:LEU:HD13	8:G:152:ARG:H	1.62	0.55
8:G:320:GLU:HG2	8:G:321:ASP:N	2.21	0.55
9:X:176:HIS:O	9:X:179:ILE:HB	2.06	0.55
1:1:99:DT:H5'	1:1:99:DT:C6	2.42	0.55
3:A:131:ASN:O	3:A:133:ALA:N	2.38	0.55
3:A:691:MET:HG2	3:A:972:VAL:HG21	1.88	0.55
3:A:779:SER:O	3:A:780:ASP:CG	2.48	0.55
3:A:792:PHE:HZ	8:G:385:LEU:CD1	2.04	0.55
4:B:187:ALA:O	4:B:188:LEU:HD23	2.07	0.55
4:B:198:ARG:HH12	6:E:346:ARG:NH2	2.04	0.55
4:B:332:MET:HE1	4:B:1007:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:628:THR:N	4:B:744:PHE:O	2.40	0.55
4:B:639:VAL:N	4:B:682:ARG:O	2.39	0.55
4:B:644:SER:C	4:B:645:LEU:HD23	2.31	0.55
4:B:659:GLU:CD	4:B:661:VAL:HG13	2.31	0.55
4:B:692:LEU:HD13	4:B:737:LEU:CA	2.36	0.55
5:C:16:SER:HA	5:C:19:HIS:HE2	1.71	0.55
5:D:171:MET:HE2	6:E:543:MET:HE1	1.89	0.55
6:E:486:GLU:HB2	6:E:490:LEU:HD21	1.89	0.55
6:E:501:ALA:C	6:E:502:THR:OG1	2.41	0.55
8:G:106:LYS:NZ	8:G:150:ILE:HG23	2.20	0.55
8:G:315:LYS:O	8:G:388:TYR:OH	2.24	0.55
9:X:47:LEU:HD21	9:X:50:GLY:O	2.06	0.55
9:Y:43:ARG:O	9:Y:78:LEU:HD12	2.07	0.55
1:1:85:DG:N2	1:1:86:DG:O4'	2.39	0.55
3:A:147:VAL:C	3:A:148:TYR:CG	2.84	0.55
3:A:166:ILE:CG2	3:A:167:PRO:HD2	2.35	0.55
3:A:337:ARG:CG	3:A:338:VAL:N	2.69	0.55
3:A:454:ASN:ND2	3:A:458:PHE:O	2.39	0.55
3:A:600:TYR:HD2	3:A:607:ARG:CB	2.08	0.55
3:A:999:SER:HB3	3:A:1003:GLN:N	2.22	0.55
4:B:38:ASP:O	4:B:39:LEU:C	2.42	0.55
4:B:187:ALA:C	4:B:188:LEU:HD23	2.31	0.55
4:B:443:LYS:HB2	4:B:997:LEU:H	1.72	0.55
4:B:650:ASP:O	4:B:652:GLN:N	2.38	0.55
4:B:1090:PRO:O	4:B:1093:ILE:HG13	2.07	0.55
4:B:1123:ASN:O	4:B:1126:GLN:N	2.39	0.55
4:B:1224:ALA:HA	6:E:14:ILE:HG13	1.87	0.55
5:C:16:SER:HA	5:C:19:HIS:CD2	2.41	0.55
5:C:148:TYR:HE1	5:C:171:MET:HB2	1.71	0.55
5:C:214:ALA:O	5:C:218:VAL:HG23	2.07	0.55
5:D:76:LEU:N	5:D:76:LEU:CD1	2.67	0.55
5:D:76:LEU:O	5:D:79:ILE:HG23	2.07	0.55
5:D:77:GLU:O	5:D:81:ARG:N	2.31	0.55
6:E:69:TRP:CD1	6:E:82:ARG:HA	2.42	0.55
6:E:332:LYS:HZ1	8:G:297:ARG:NH2	2.00	0.55
6:E:355:ASP:OD1	6:E:356:TYR:CE2	2.60	0.55
8:G:213:TRP:O	8:G:214:ILE:C	2.46	0.55
8:G:378:HIS:CG	9:X:57:VAL:HG22	2.29	0.55
9:X:47:LEU:CD2	9:X:69:LEU:C	2.80	0.55
9:Y:157:CYS:HA	9:Y:161:GLY:HA3	1.87	0.55
1:1:79:DA:C4	1:1:80:DA:C2	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:92:DT:C2	1:1:93:DT:C5	2.94	0.55
2:2:59:DG:C2	2:2:60:DC:C2	2.95	0.55
3:A:141:ILE:HA	3:A:325:VAL:HA	1.89	0.55
3:A:257:LEU:HG	3:A:258:ASP:N	2.22	0.55
3:A:425:SER:CB	3:A:484:GLU:CD	2.75	0.55
3:A:503:ILE:HD13	3:A:503:ILE:N	2.22	0.55
3:A:510:VAL:HG22	3:A:511:ARG:O	2.06	0.55
3:A:620:LYS:HZ2	3:A:630:GLN:C	2.08	0.55
3:A:1077:LEU:C	3:A:1079:SER:N	2.53	0.55
4:B:104:ALA:O	4:B:107:ASP:OD1	2.25	0.55
4:B:498:VAL:O	4:B:499:LYS:HE2	2.07	0.55
4:B:642:ASP:CG	4:B:643:ILE:N	2.64	0.55
4:B:900:LEU:HD23	4:B:904:ASP:HB3	1.88	0.55
4:B:932:ILE:HG22	4:B:933:PHE:N	2.21	0.55
4:B:1229:SER:OG	4:B:1230:ASP:N	2.40	0.55
4:B:1244:LEU:HG	4:B:1245:ILE:N	2.21	0.55
5:C:149:ARG:N	5:C:168:SER:O	2.40	0.55
5:C:150:THR:O	5:C:152:GLU:HG3	2.07	0.55
5:D:51:THR:HG22	5:D:144:ARG:CA	2.35	0.55
6:E:37:GLY:HA2	6:E:62:ILE:HB	1.89	0.55
6:E:108:LEU:HB2	6:E:247:THR:O	2.06	0.55
6:E:180:GLN:HG3	6:E:180:GLN:O	2.06	0.55
6:E:390:ASN:O	6:E:392:LEU:N	2.40	0.55
6:E:414:SER:HA	6:E:417:ASP:HB2	1.88	0.55
8:G:246:THR:CB	8:G:256:LYS:CD	2.73	0.55
8:G:250:SER:HA	8:G:253:MET:O	2.07	0.55
8:G:258:THR:CB	8:G:262:ILE:HG12	2.37	0.55
8:G:259:GLU:O	8:G:263:ALA:N	2.39	0.55
8:G:318:LEU:CD2	8:G:322:LEU:HD12	2.37	0.55
9:X:175:SER:OG	9:X:178:ALA:N	2.40	0.55
1:1:90:DA:C4	1:1:91:DT:C5	2.95	0.55
2:2:11:DT:N1	2:2:11:DT:H5'	2.21	0.55
2:2:43:DG:N3	2:2:44:DA:C4	2.75	0.55
2:2:51:DT:C5	2:2:52:DA:C5	2.94	0.55
3:A:122:MET:CG	3:A:123:THR:N	2.70	0.55
3:A:294:SER:OG	3:A:295:GLY:N	2.38	0.55
3:A:372:ALA:O	3:A:374:ILE:N	2.39	0.55
3:A:523:GLN:C	3:A:524:VAL:HG23	2.31	0.55
3:A:599:VAL:HG13	3:A:615:PRO:CD	2.37	0.55
3:A:615:PRO:O	3:A:616:THR:C	2.47	0.55
3:A:886:PRO:HB3	4:B:50:SER:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1024:ALA:CA	6:E:438:ARG:HA	2.37	0.55
3:A:1045:MET:O	3:A:1048:ARG:HG3	2.06	0.55
3:A:1052:LEU:O	3:A:1055:ILE:HG12	2.06	0.55
4:B:247:ASP:CG	4:B:259:PRO:HA	2.32	0.55
4:B:853:THR:HA	4:B:874:THR:CG2	2.37	0.55
4:B:1209:SER:O	4:B:1212:SER:N	2.39	0.55
5:C:12:ASN:ND2	5:C:20:TYR:HB3	2.18	0.55
5:C:43:VAL:HG13	5:C:44:LEU:N	2.20	0.55
5:C:63:HIS:CD2	5:C:65:PHE:HD2	2.25	0.55
5:D:201:ASN:HD21	5:D:203:SER:H	1.55	0.55
6:E:47:TYR:CE1	8:G:232:PRO:HD3	2.42	0.55
6:E:59:CYS:SG	6:E:61:ARG:HG2	2.47	0.55
6:E:148:LEU:HG	6:E:185:GLU:HB3	1.89	0.55
6:E:381:ILE:HB	6:E:382:GLU:OE1	2.07	0.55
8:G:218:ILE:O	8:G:220:ARG:N	2.40	0.55
8:G:368:ILE:HA	8:G:371:LYS:HD2	1.89	0.55
9:X:42:GLU:HB3	9:X:78:LEU:HB3	1.65	0.55
9:X:98:VAL:HG13	9:X:100:LEU:CG	2.35	0.55
9:X:123:LEU:HD21	9:Y:123:LEU:HD22	1.89	0.55
9:Y:142:HIS:C	9:Y:148:ARG:HH21	2.15	0.55
9:Y:197:LEU:HD12	9:Y:197:LEU:C	2.32	0.55
1:1:71:DT:C5'	9:X:145:MET:CE	2.80	0.55
1:1:72:DT:C5	9:X:187:ARG:NH2	2.65	0.55
2:2:44:DA:H2"	2:2:45:DA:C8	2.41	0.55
3:A:44:GLU:O	3:A:48:GLU:OE1	2.25	0.55
3:A:347:ILE:HG12	3:A:351:MET:CG	2.37	0.55
3:A:1005:PRO:O	3:A:1007:GLY:N	2.39	0.55
3:A:1071:LYS:O	3:A:1072:VAL:C	2.46	0.55
4:B:114:LYS:HD3	4:B:350:ARG:NE	2.20	0.55
4:B:371:ARG:O	4:B:373:GLY:N	2.38	0.55
4:B:721:GLU:OE2	4:B:723:ARG:HD3	2.07	0.55
4:B:765:SER:HB2	4:B:800:GLU:HB3	1.89	0.55
4:B:794:GLN:CG	4:B:795:LEU:N	2.65	0.55
4:B:978:ALA:HA	4:B:997:LEU:CG	2.34	0.55
4:B:1012:PRO:O	4:B:1013:ARG:C	2.47	0.55
4:B:1088:SER:OG	4:B:1093:ILE:HG23	1.98	0.55
4:B:1126:GLN:O	4:B:1127:MET:C	2.44	0.55
5:D:111:HIS:H	5:D:111:HIS:CD2	2.24	0.55
5:D:118:VAL:CG1	5:D:142:ILE:HG13	2.37	0.55
6:E:70:GLU:HA	6:E:76:TYR:O	2.07	0.55
6:E:75:LYS:CE	6:E:88:ARG:HD3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:374:GLY:O	6:E:375:LEU:HD13	2.07	0.55
6:E:427:PRO:C	6:E:428:VAL:HG23	2.31	0.55
6:E:449:VAL:CG1	6:E:450:GLU:N	2.70	0.55
6:E:520:LEU:HD23	6:E:521:THR:CA	2.36	0.55
6:E:530:GLY:HA3	6:E:550:ILE:CG2	2.37	0.55
8:G:179:SER:O	8:G:180:PHE:C	2.49	0.55
1:1:58:DA:C4	1:1:58:DA:H5"	2.41	0.55
1:1:118:DG:H1'	1:1:119:DA:H3'	1.88	0.55
2:2:35:DA:C2	2:2:36:DT:C4	2.95	0.55
2:2:60:DC:H4'	2:2:61:DT:OP1	2.06	0.55
3:A:401:ARG:CG	3:A:402:LEU:N	2.65	0.55
3:A:728:GLN:HE22	3:A:733:PRO:N	2.05	0.55
3:A:792:PHE:CE1	8:G:382:ASN:HB2	2.34	0.55
3:A:798:ASP:CG	3:A:799:VAL:HG23	2.32	0.55
3:A:1002:THR:O	3:A:1003:GLN:C	2.49	0.55
3:A:1077:LEU:C	3:A:1079:SER:H	2.15	0.55
4:B:169:VAL:HG23	4:B:170:THR:HG23	1.89	0.55
4:B:369:ARG:HH12	4:B:1000:GLU:HG2	1.72	0.55
4:B:447:SER:OG	4:B:988:VAL:HG23	2.07	0.55
4:B:460:PRO:O	4:B:461:GLU:C	2.50	0.55
4:B:611:VAL:HG21	4:B:623:VAL:HA	1.88	0.55
4:B:910:ILE:HG13	4:B:929:ALA:HB1	1.89	0.55
5:C:107:ILE:HG23	5:C:111:HIS:CD2	2.42	0.55
5:D:83:LYS:N	5:D:84:GLU:OE1	2.40	0.55
6:E:389:ILE:CG1	6:E:390:ASN:N	2.67	0.55
9:X:36:PHE:O	9:X:39:ASP:OD1	2.25	0.55
9:X:130:ILE:HD11	9:Y:130:ILE:CG2	2.37	0.55
2:2:11:DT:C6	2:2:12:DG:C2	2.95	0.54
2:2:58:DA:N3	2:2:59:DG:C4	2.75	0.54
3:A:125:ARG:HG3	3:A:127:THR:HG23	1.88	0.54
3:A:196:GLN:HB3	3:A:199:LEU:HB2	1.89	0.54
3:A:254:GLN:O	3:A:257:LEU:N	2.41	0.54
3:A:423:HIS:N	3:A:426:HIS:CD2	2.75	0.54
3:A:1003:GLN:N	3:A:1003:GLN:OE1	2.40	0.54
4:B:71:GLU:C	4:B:71:GLU:CD	2.73	0.54
4:B:221:PRO:HA	4:B:280:VAL:O	2.07	0.54
4:B:299:TYR:CZ	4:B:315:VAL:HG21	2.42	0.54
4:B:527:GLU:C	4:B:530:PRO:HD3	2.32	0.54
4:B:562:TYR:O	4:B:564:ILE:N	2.40	0.54
4:B:583:GLN:HE22	4:B:799:ILE:CG1	2.20	0.54
4:B:650:ASP:HB3	4:B:672:VAL:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1146:ARG:O	4:B:1148:MET:N	2.40	0.54
5:C:220:LEU:H	5:C:220:LEU:CD1	2.18	0.54
5:C:227:ILE:HD13	5:D:5:GLN:CA	2.36	0.54
6:E:36:VAL:HG22	6:E:37:GLY:H	1.72	0.54
6:E:114:HIS:CD2	6:E:116:TRP:HB2	2.42	0.54
6:E:530:GLY:HA3	6:E:550:ILE:CB	2.37	0.54
7:F:27:ASN:HB2	7:F:30:ARG:H	1.72	0.54
8:G:131:SER:C	8:G:134:ALA:H	2.15	0.54
8:G:132:GLU:CA	8:G:141:LEU:HD13	2.37	0.54
8:G:334:ARG:O	8:G:337:LEU:HB2	2.08	0.54
9:Y:35:PHE:HE1	9:Y:88:ARG:O	1.91	0.54
9:Y:95:PHE:CG	9:Y:96:THR:N	2.73	0.54
1:1:121:DG:C6	1:1:122:DC:C4	2.95	0.54
2:2:42:DT:C6	2:2:43:DG:C4	2.95	0.54
2:2:43:DG:N3	2:2:44:DA:C5	2.75	0.54
2:2:48:DT:C2	2:2:49:DT:C5	2.95	0.54
3:A:185:VAL:O	3:A:192:LYS:HD3	2.06	0.54
3:A:238:LEU:HG	3:A:256:LEU:HD23	1.89	0.54
3:A:552:ARG:NH1	3:A:892:ARG:CG	2.67	0.54
3:A:609:ARG:HA	3:A:635:ILE:CG1	2.37	0.54
3:A:720:GLU:HG3	3:A:722:TYR:CE1	2.42	0.54
3:A:809:GLY:C	3:A:810:GLU:CD	2.75	0.54
3:A:1046:GLN:NE2	3:A:1047:GLY:N	2.55	0.54
4:B:87:GLU:HG2	4:B:88:VAL:H	1.71	0.54
4:B:93:LYS:HE3	4:B:372:HIS:NE2	2.22	0.54
4:B:93:LYS:CA	4:B:96:ASP:H	2.20	0.54
4:B:168:THR:HG22	4:B:171:GLU:OE2	2.07	0.54
4:B:207:VAL:CG1	4:B:294:VAL:HG12	2.36	0.54
4:B:583:GLN:CG	4:B:584:ASN:H	2.12	0.54
4:B:643:ILE:N	4:B:680:ILE:HA	2.21	0.54
4:B:675:THR:HG21	4:B:683:GLU:HG3	1.88	0.54
4:B:717:GLN:OE1	4:B:717:GLN:N	2.40	0.54
4:B:942:GLY:N	4:B:965:THR:OG1	2.40	0.54
4:B:1113:ALA:O	4:B:1114:LEU:C	2.49	0.54
5:C:134:GLY:O	5:C:135:LYS:CG	2.55	0.54
5:D:63:HIS:CD2	5:D:65:PHE:HD2	2.25	0.54
5:D:85:VAL:C	5:D:86:ILE:HG13	2.31	0.54
6:E:94:THR:CB	6:E:98:VAL:HG21	2.38	0.54
6:E:278:ARG:HG2	6:E:279:VAL:N	2.09	0.54
6:E:328:ASN:C	6:E:329:ARG:HG3	2.31	0.54
6:E:343:GLY:O	6:E:344:ARG:C	2.49	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:552:LEU:O	6:E:610:PRO:HD2	2.07	0.54
9:X:34:ILE:HG12	9:X:93:VAL:C	2.33	0.54
9:X:53:LYS:H	9:X:95:PHE:HB3	1.72	0.54
9:X:169:THR:OG1	9:X:170:ILE:O	2.23	0.54
9:Y:43:ARG:HG3	9:Y:44:VAL:H	1.70	0.54
9:Y:206:HIS:O	9:Y:209:LYS:HG2	2.06	0.54
1:1:101:DT:H2'	1:1:102:DA:C5'	2.35	0.54
3:A:105:GLU:HG2	3:A:106:THR:N	2.22	0.54
3:A:237:GLU:HG3	3:A:240:ARG:HH22	1.72	0.54
3:A:350:ARG:HH21	3:A:364:LEU:HA	1.72	0.54
3:A:366:ASN:OD1	3:A:368:LYS:HG3	2.07	0.54
3:A:790:ALA:O	3:A:793:GLY:N	2.40	0.54
3:A:866:LEU:O	3:A:867:PRO:C	2.36	0.54
3:A:893:MET:CE	4:B:163:PHE:CE2	2.90	0.54
3:A:959:VAL:O	3:A:967:ALA:HA	2.07	0.54
4:B:162:ASN:OD1	4:B:163:PHE:N	2.40	0.54
4:B:197:THR:O	4:B:201:VAL:HG12	2.07	0.54
4:B:215:GLY:C	4:B:216:THR:HG22	2.28	0.54
4:B:439:GLU:C	4:B:1000:GLU:HA	2.32	0.54
4:B:528:ALA:O	4:B:535:ARG:CZ	2.55	0.54
4:B:553:VAL:HG21	4:B:562:TYR:CZ	2.42	0.54
4:B:574:LEU:HB3	4:B:577:THR:HA	1.88	0.54
4:B:575:ARG:HB2	4:B:588:VAL:N	2.22	0.54
4:B:586:GLN:NE2	4:B:797:LEU:C	2.60	0.54
4:B:1026:ALA:CB	4:B:1088:SER:HA	2.36	0.54
4:B:1238:ASN:OD1	4:B:1238:ASN:N	2.22	0.54
5:C:64:GLU:N	5:C:64:GLU:CD	2.64	0.54
5:C:76:LEU:O	5:C:79:ILE:HG23	2.07	0.54
5:C:123:PRO:O	5:C:124:THR:CB	2.54	0.54
5:C:161:LEU:C	5:C:163:PHE:N	2.65	0.54
5:C:188:SER:O	5:C:189:ILE:CG1	2.52	0.54
6:E:41:LYS:HD3	6:E:55:ASP:HB3	1.88	0.54
6:E:148:LEU:HG	6:E:185:GLU:CB	2.37	0.54
6:E:252:ILE:CG2	6:E:253:PRO:HD2	2.38	0.54
6:E:620:GLN:C	6:E:620:GLN:NE2	2.64	0.54
8:G:186:GLU:O	8:G:189:LEU:HB2	2.07	0.54
9:X:213:HIS:HB3	9:X:214:LYS:NZ	2.13	0.54
9:Y:48:LEU:HD21	9:Y:101:LEU:HB3	1.89	0.54
9:Y:162:VAL:H	9:Y:169:THR:C	2.13	0.54
3:A:25:PHE:CD1	3:A:26:LEU:N	2.75	0.54
3:A:281:LEU:HB2	3:A:283:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:429:ARG:HH22	3:A:481:THR:HG22	1.72	0.54
3:A:431:CYS:SG	3:A:433:ILE:N	2.73	0.54
3:A:580:ALA:O	3:A:581:GLN:C	2.48	0.54
3:A:943:THR:C	3:A:945:LYS:N	2.64	0.54
3:A:1002:THR:C	3:A:1003:GLN:OE1	2.50	0.54
4:B:34:ASP:C	4:B:36:LEU:N	2.54	0.54
4:B:785:VAL:CB	4:B:786:GLU:OE1	2.54	0.54
4:B:919:GLY:HA2	4:B:939:GLN:CD	2.32	0.54
4:B:1008:ILE:HB	4:B:1009:GLN:HG2	1.89	0.54
4:B:1028:ILE:HG21	4:B:1082:PRO:CA	2.37	0.54
4:B:1078:PRO:CB	4:B:1100:LEU:HD13	2.37	0.54
5:C:63:HIS:CD2	5:C:65:PHE:N	2.66	0.54
5:C:220:LEU:N	5:C:220:LEU:CD1	2.67	0.54
6:E:147:VAL:HG21	6:E:152:ASN:HB3	1.89	0.54
6:E:320:GLY:C	6:E:321:ARG:HE	2.15	0.54
6:E:511:GLN:N	6:E:511:GLN:OE1	2.41	0.54
8:G:163:LEU:HD12	8:G:164:ARG:CB	2.36	0.54
8:G:193:ARG:NH1	8:G:197:LYS:HZ2	2.06	0.54
8:G:242:ILE:HG12	8:G:266:MET:CE	2.37	0.54
8:G:322:LEU:CA	8:G:325:VAL:HG12	2.37	0.54
9:X:95:PHE:CG	9:X:96:THR:N	2.73	0.54
9:Y:35:PHE:CE1	9:Y:88:ARG:HB3	2.42	0.54
9:Y:53:LYS:CD	9:Y:68:LEU:HD22	2.37	0.54
9:Y:137:ILE:HA	9:Y:140:LEU:HD21	1.89	0.54
1:1:90:DA:C2	1:1:91:DT:C2	2.96	0.54
1:1:114:DC:O3'	1:1:115:DA:H3'	2.08	0.54
2:2:35:DA:C4	2:2:36:DT:C4	2.96	0.54
2:2:51:DT:C6	2:2:52:DA:C8	2.95	0.54
3:A:70:HIS:HE1	3:A:71:ASN:ND2	1.65	0.54
3:A:270:GLY:O	3:A:273:GLY:CA	2.55	0.54
3:A:456:TYR:N	3:A:456:TYR:CD1	2.64	0.54
3:A:707:ARG:O	3:A:708:LEU:C	2.50	0.54
3:A:813:ARG:HG3	3:A:814:VAL:N	2.21	0.54
3:A:950:ASN:HD21	3:A:956:LYS:HB2	1.73	0.54
4:B:189:ARG:NH2	4:B:330:LEU:O	2.41	0.54
4:B:296:GLN:HG3	4:B:311:LEU:HD21	1.89	0.54
4:B:384:ILE:HB	4:B:393:GLY:HA2	1.88	0.54
4:B:539:ILE:CD1	4:B:764:ARG:HH22	2.18	0.54
4:B:650:ASP:C	4:B:652:GLN:N	2.64	0.54
5:C:85:VAL:C	5:C:86:ILE:HG13	2.31	0.54
6:E:28:ARG:NH2	6:E:102:ARG:HA	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:315:ASP:C	6:E:315:ASP:OD1	2.45	0.54
6:E:518:TYR:CD1	6:E:518:TYR:C	2.82	0.54
6:E:568:GLN:O	6:E:568:GLN:CD	2.51	0.54
6:E:582:GLY:H	6:E:597:ALA:HB3	1.71	0.54
7:F:38:ARG:O	7:F:41:ARG:N	2.41	0.54
7:F:59:LEU:HA	7:F:62:ILE:HD12	1.89	0.54
8:G:200:HIS:CE1	8:G:201:GLU:OE2	2.60	0.54
9:Y:43:ARG:HH11	9:Y:44:VAL:HG23	1.69	0.54
1:1:116:DC:C6	1:1:117:DG:N7	2.75	0.54
3:A:129:ILE:HB	3:A:133:ALA:O	2.08	0.54
3:A:199:LEU:CD2	3:A:229:PHE:CZ	2.91	0.54
3:A:848:VAL:O	3:A:848:VAL:HG13	2.02	0.54
3:A:868:ILE:CG2	3:A:869:GLU:N	2.70	0.54
4:B:32:MET:HG2	4:B:33:ALA:N	2.21	0.54
4:B:326:PRO:O	4:B:327:GLY:C	2.50	0.54
4:B:471:THR:HB	4:B:980:LEU:N	2.23	0.54
4:B:479:LEU:HD23	4:B:971:PRO:CB	2.29	0.54
4:B:482:ILE:CG2	4:B:970:ARG:HH11	2.15	0.54
4:B:533:SER:HB3	4:B:535:ARG:NH2	2.23	0.54
4:B:539:ILE:O	4:B:539:ILE:HG13	2.07	0.54
4:B:636:THR:HB	4:B:784:SER:N	2.23	0.54
4:B:700:VAL:HG21	4:B:736:LEU:HD21	1.90	0.54
4:B:722:LEU:HD12	4:B:722:LEU:O	2.07	0.54
4:B:928:LEU:CD2	4:B:934:ALA:H	2.10	0.54
4:B:1051:VAL:HG12	4:B:1052:ILE:N	2.17	0.54
4:B:1156:ASP:H	4:B:1164:PRO:HB3	1.71	0.54
5:D:15:GLU:HB2	5:D:18:ASN:ND2	2.20	0.54
5:D:35:THR:C	5:D:38:ASN:HB3	2.33	0.54
5:D:53:VAL:HG12	5:D:54:THR:N	2.23	0.54
5:D:181:GLU:OE2	5:D:193:ARG:CB	2.41	0.54
5:D:214:ALA:O	5:D:218:VAL:HG23	2.07	0.54
6:E:246:MET:C	6:E:247:THR:OG1	2.50	0.54
6:E:265:GLY:C	8:G:278:LYS:HE3	2.32	0.54
8:G:127:ASP:CG	8:G:129:ARG:HB2	2.33	0.54
8:G:132:GLU:OE1	8:G:139:LEU:HB3	2.07	0.54
8:G:140:PRO:C	8:G:142:PRO:HD2	2.33	0.54
9:X:30:ARG:HG3	9:X:97:PRO:CD	2.30	0.54
9:X:162:VAL:H	9:X:169:THR:C	2.13	0.54
9:X:169:THR:HB	9:X:211:THR:HA	1.90	0.54
9:Y:111:ALA:HB1	9:Y:118:LEU:HD13	1.88	0.54
1:1:71:DT:P	9:X:145:MET:HE3	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:86:DG:O6	2:2:39:DT:O4	2.26	0.54
1:1:86:DG:C6	1:1:87:DA:C6	2.96	0.54
1:1:114:DC:H2"	1:1:115:DA:C8	2.42	0.54
2:2:34:DA:C4	2:2:35:DA:N7	2.76	0.54
3:A:93:VAL:O	3:A:118:ASP:HA	2.08	0.54
3:A:263:ASP:CB	3:A:265:LYS:HB3	2.38	0.54
3:A:307:LEU:HD23	3:A:307:LEU:N	2.22	0.54
3:A:405:LEU:HD12	3:A:405:LEU:N	2.22	0.54
3:A:496:PRO:CA	3:A:922:MET:HG2	2.31	0.54
3:A:547:HIS:CE1	4:B:164:ARG:O	2.61	0.54
3:A:597:ASP:H	3:A:615:PRO:N	2.05	0.54
3:A:691:MET:HB3	3:A:692:PRO:CD	2.38	0.54
3:A:1072:VAL:HG12	3:A:1073:LEU:N	2.14	0.54
4:B:144:ARG:HH21	4:B:163:PHE:HE2	1.54	0.54
4:B:184:VAL:HG23	4:B:185:ASP:N	2.22	0.54
4:B:332:MET:CE	4:B:1007:ILE:HG12	2.37	0.54
4:B:463:LYS:HG3	4:B:472:THR:HG22	1.78	0.54
4:B:463:LYS:H	4:B:472:THR:HG21	1.69	0.54
4:B:593:ASP:O	4:B:593:ASP:OD1	2.26	0.54
4:B:1019:GLU:HB2	4:B:1021:ARG:HD3	1.90	0.54
4:B:1042:ASP:C	4:B:1050:LYS:HE3	2.33	0.54
4:B:1241:ILE:HG13	4:B:1241:ILE:O	2.07	0.54
5:D:107:ILE:HA	5:D:111:HIS:CE1	2.43	0.54
5:D:123:PRO:O	5:D:124:THR:CB	2.54	0.54
5:D:183:VAL:HG21	5:D:193:ARG:HE	1.73	0.54
6:E:63:PHE:HB2	6:E:99:ARG:NH1	2.22	0.54
6:E:297:ILE:HG13	6:E:298:ILE:N	2.15	0.54
8:G:114:GLU:C	8:G:114:GLU:CD	2.76	0.54
8:G:117:ARG:C	8:G:129:ARG:NH2	2.66	0.54
9:X:47:LEU:CB	9:X:100:LEU:CD2	2.86	0.54
9:Y:57:VAL:CG2	9:Y:91:HIS:HB3	2.36	0.54
2:2:3:DT:O2	2:2:4:DG:N1	2.40	0.54
3:A:274:ARG:HD2	3:A:289:VAL:HG12	1.90	0.54
3:A:617:ALA:C	3:A:620:LYS:N	2.58	0.54
3:A:725:GLU:O	3:A:725:GLU:HG3	2.03	0.54
3:A:738:ARG:HE	3:A:748:LEU:HD13	1.72	0.54
3:A:774:THR:N	3:A:800:ARG:O	2.40	0.54
4:B:65:LEU:HD21	4:B:105:LEU:HD13	1.90	0.54
4:B:93:LYS:O	4:B:95:ILE:N	2.39	0.54
4:B:158:PRO:O	4:B:160:LYS:HD2	2.08	0.54
4:B:186:THR:O	4:B:187:ALA:C	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:288:CYS:SG	4:B:298:CYS:HB2	2.47	0.54
5:C:78:ILE:O	5:C:80:MET:N	2.41	0.54
5:C:186:ASP:HA	5:C:190:PRO:N	2.23	0.54
5:C:227:ILE:HD13	5:D:6:ILE:N	2.22	0.54
6:E:41:LYS:HB3	6:E:43:GLU:OE1	2.08	0.54
6:E:76:TYR:CE2	6:E:81:HIS:NE2	2.75	0.54
6:E:385:GLN:HB3	6:E:386:PRO:HD3	1.90	0.54
8:G:186:GLU:N	8:G:186:GLU:OE2	2.41	0.54
8:G:224:ASP:O	8:G:225:GLN:OE1	2.26	0.54
8:G:266:MET:HE3	8:G:273:LEU:CD2	2.37	0.54
9:X:47:LEU:CD1	9:X:100:LEU:HD23	2.31	0.54
9:X:195:GLY:O	9:X:200:LYS:N	2.39	0.54
9:Y:28:PHE:H	9:Y:98:VAL:CB	2.20	0.54
1:1:90:DA:H8	1:1:90:DA:OP2	1.90	0.54
1:1:120:DT:O2	1:1:121:DG:H5'	2.07	0.54
2:2:39:DT:P	2:2:39:DT:H2'	2.48	0.54
3:A:56:ILE:O	3:A:57:THR:OG1	2.24	0.54
3:A:67:PHE:CE1	3:A:99:THR:CB	2.79	0.54
3:A:546:GLU:OE2	3:A:547:HIS:CE1	2.58	0.54
3:A:594:THR:O	3:A:665:ALA:N	2.40	0.54
3:A:717:ILE:CG2	3:A:718:HIS:N	2.71	0.54
3:A:821:THR:O	3:A:822:ARG:C	2.51	0.54
3:A:990:ILE:C	3:A:991:HIS:CG	2.84	0.54
4:B:488:TYR:HB3	4:B:490:LEU:CD2	2.33	0.54
4:B:510:LEU:H	4:B:875:GLN:CD	2.16	0.54
4:B:612:GLN:N	4:B:612:GLN:OE1	2.41	0.54
4:B:983:GLU:CD	4:B:984:ASP:N	2.66	0.54
4:B:1089:ASN:HB2	4:B:1092:GLU:HG3	1.90	0.54
4:B:1215:GLU:CB	4:B:1218:ARG:HB3	2.37	0.54
5:C:53:VAL:HG12	5:C:54:THR:N	2.23	0.54
5:D:157:GLU:OE1	5:D:157:GLU:N	2.41	0.54
5:D:159:THR:HG22	5:D:163:PHE:HB3	1.89	0.54
6:E:67:LYS:HB2	6:E:70:GLU:OE1	2.05	0.54
6:E:140:VAL:O	6:E:141:TYR:HB2	2.05	0.54
6:E:233:ASN:C	6:E:233:ASN:OD1	2.43	0.54
6:E:254:PRO:O	6:E:255:ASP:C	2.44	0.54
6:E:423:ILE:HG23	6:E:424:GLU:N	2.20	0.54
8:G:231:LEU:HD11	8:G:279:SER:O	2.08	0.54
9:Y:78:LEU:CD1	9:Y:88:ARG:NH1	2.61	0.54
9:Y:95:PHE:HZ	9:Y:172:LEU:HD21	1.73	0.54
1:1:74:DT:C1'	1:1:75:DA:H5'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:80:DA:H2"	1:1:81:DT:H6	1.71	0.54
1:1:81:DT:N3	2:2:45:DA:N6	2.55	0.54
1:1:86:DG:N1	2:2:39:DT:N3	2.56	0.54
2:2:43:DG:C1'	2:2:44:DA:C8	2.85	0.54
3:A:53:PHE:CE2	3:A:340:LEU:CB	2.80	0.54
3:A:139:ASN:OD1	3:A:139:ASN:C	2.47	0.54
3:A:607:ARG:C	3:A:608:VAL:HG13	2.33	0.54
3:A:688:VAL:CG2	3:A:689:ALA:N	2.67	0.54
3:A:735:GLU:O	3:A:772:LYS:CG	2.51	0.54
4:B:21:PHE:O	4:B:24:TYR:O	2.26	0.54
4:B:71:GLU:O	4:B:74:ARG:HB2	2.08	0.54
4:B:149:ASP:CG	4:B:153:GLU:HB3	2.32	0.54
4:B:352:LYS:HZ3	4:B:389:PRO:HB3	1.72	0.54
4:B:499:LYS:CB	4:B:889:LYS:HZ2	2.19	0.54
4:B:499:LYS:HD3	4:B:889:LYS:HD3	1.89	0.54
4:B:713:GLU:OE1	4:B:714:LEU:N	2.41	0.54
5:D:63:HIS:CD2	5:D:65:PHE:N	2.66	0.54
5:D:99:LEU:HD13	5:D:112:PHE:CA	2.36	0.54
8:G:131:SER:OG	8:G:133:TRP:N	2.34	0.54
1:1:75:DA:H1'	1:1:76:DC:P	2.48	0.53
2:2:6:DA:H2'	2:2:7:DT:C5	2.43	0.53
2:2:43:DG:H2'	2:2:43:DG:P	2.49	0.53
2:2:55:DA:H2'	2:2:56:DG:O4'	2.08	0.53
3:A:37:SER:O	3:A:38:PHE:C	2.48	0.53
3:A:617:ALA:CA	3:A:620:LYS:HG3	2.38	0.53
3:A:958:MET:C	3:A:959:VAL:HG13	2.33	0.53
3:A:1007:GLY:HA2	3:A:1013:GLY:HA2	1.90	0.53
3:A:1046:GLN:CD	3:A:1047:GLY:N	2.66	0.53
4:B:27:ALA:O	4:B:28:ARG:C	2.44	0.53
4:B:60:PRO:HG2	4:B:108:GLU:OE2	2.08	0.53
4:B:99:ASN:HA	4:B:102:SER:OG	2.07	0.53
4:B:232:LEU:N	4:B:232:LEU:CD2	2.71	0.53
4:B:321:GLN:HB3	6:E:436:LEU:HG	1.89	0.53
4:B:325:GLU:HB2	4:B:326:PRO:CD	2.30	0.53
4:B:369:ARG:CZ	4:B:1000:GLU:O	2.56	0.53
4:B:458:VAL:HB	4:B:474:ALA:HB1	1.89	0.53
4:B:1128:VAL:HG13	4:B:1129:TYR:N	2.22	0.53
4:B:1130:GLN:O	4:B:1131:SER:C	2.49	0.53
5:C:63:HIS:HD2	5:C:65:PHE:N	2.06	0.53
5:C:83:LYS:N	5:C:84:GLU:OE1	2.40	0.53
5:D:84:GLU:N	5:D:84:GLU:CD	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:85:VAL:HA	5:D:125:GLN:HE22	1.72	0.53
5:D:86:ILE:HG13	5:D:125:GLN:HE22	1.73	0.53
6:E:512:ASP:HA	6:E:515:LEU:HG	1.90	0.53
8:G:232:PRO:HG2	8:G:235:LEU:CB	2.37	0.53
2:2:59:DG:H2'	2:2:60:DC:C6	2.42	0.53
3:A:27:LEU:HD11	3:A:450:HIS:CD2	2.44	0.53
3:A:466:VAL:HG23	3:A:469:GLY:HA2	1.89	0.53
3:A:569:PRO:HG2	3:A:674:SER:HB2	1.90	0.53
3:A:616:THR:OG1	3:A:631:LYS:O	2.25	0.53
3:A:1090:GLU:HG2	3:A:1095:GLY:O	2.08	0.53
4:B:93:LYS:CE	4:B:375:ASP:CA	2.86	0.53
4:B:580:THR:OG1	4:B:581:LYS:N	2.38	0.53
4:B:651:GLY:O	4:B:732:GLU:HG2	2.07	0.53
4:B:666:CYS:SG	4:B:668:ASN:N	2.81	0.53
4:B:773:ARG:O	4:B:791:LEU:HD12	2.09	0.53
4:B:841:ARG:O	4:B:843:ASP:N	2.41	0.53
4:B:1037:LYS:O	4:B:1038:VAL:C	2.50	0.53
4:B:1091:HIS:ND1	4:B:1092:GLU:HG3	2.21	0.53
5:C:178:TYR:C	5:C:178:TYR:CD2	2.80	0.53
5:D:148:TYR:N	5:D:148:TYR:HD1	2.03	0.53
6:E:145:TYR:HB2	6:E:162:LEU:CB	2.32	0.53
6:E:574:VAL:O	6:E:587:LEU:HB2	2.09	0.53
7:F:37:ASN:O	7:F:38:ARG:C	2.49	0.53
8:G:354:ILE:HA	8:G:357:ILE:HB	1.90	0.53
9:Y:169:THR:HB	9:Y:211:THR:HA	1.90	0.53
1:1:75:DA:N6	2:2:52:DA:N1	2.55	0.53
1:1:102:DA:C5	1:1:103:DA:N6	2.76	0.53
2:2:52:DA:H2"	2:2:53:DT:C5'	2.22	0.53
3:A:46:LEU:O	3:A:47:ILE:O	2.27	0.53
3:A:53:PHE:CD2	3:A:340:LEU:HD13	2.40	0.53
3:A:95:MET:C	3:A:115:PHE:HA	2.34	0.53
3:A:116:ILE:HD12	3:A:116:ILE:N	2.22	0.53
3:A:523:GLN:O	3:A:523:GLN:CD	2.51	0.53
3:A:598:VAL:O	3:A:660:GLY:N	2.40	0.53
3:A:703:LEU:C	3:A:704:ILE:CG1	2.81	0.53
3:A:721:LYS:C	3:A:722:TYR:CD1	2.85	0.53
3:A:797:ARG:HH21	3:A:798:ASP:CB	2.21	0.53
4:B:103:GLU:O	4:B:104:ALA:C	2.50	0.53
4:B:384:ILE:HG23	4:B:394:SER:HB3	1.89	0.53
4:B:405:THR:O	4:B:406:GLN:HB2	2.07	0.53
4:B:452:GLU:HA	4:B:987:LEU:CG	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:467:GLN:HB2	4:B:979:VAL:HG12	1.90	0.53
4:B:938:GLY:HA3	4:B:969:GLY:N	2.23	0.53
4:B:1010:GLY:O	4:B:1013:ARG:HB3	2.08	0.53
4:B:1016:GLU:O	4:B:1018:LEU:N	2.41	0.53
4:B:1244:LEU:HG	4:B:1245:ILE:H	1.73	0.53
5:C:42:ARG:NE	5:D:35:THR:HB	2.23	0.53
5:D:78:ILE:O	5:D:80:MET:N	2.41	0.53
6:E:234:PHE:HD1	6:E:239:SER:HB3	1.73	0.53
6:E:322:THR:HG21	6:E:330:PRO:HB3	1.91	0.53
9:X:37:PRO:HG3	9:X:90:TYR:N	2.23	0.53
9:X:204:SER:N	9:X:211:THR:OG1	2.42	0.53
9:Y:43:ARG:H	9:Y:105:ILE:CD1	2.21	0.53
9:Y:148:ARG:HD2	9:Y:183:ILE:CD1	2.34	0.53
9:Y:188:VAL:O	9:Y:192:ARG:HG2	2.09	0.53
9:Y:200:LYS:O	9:Y:201:LYS:C	2.50	0.53
1:1:59:DT:N1	1:1:60:DT:C4	2.76	0.53
1:1:68:DT:H2"	1:1:69:DA:C8	2.43	0.53
1:1:90:DA:C6	1:1:91:DT:C4	2.97	0.53
1:1:108:DA:N3	1:1:109:DG:C2	2.76	0.53
1:1:109:DG:N3	1:1:110:DC:C4	2.76	0.53
2:2:27:DA:C3'	8:G:237:GLU:OE1	2.56	0.53
2:2:29:DA:H2"	2:2:30:DG:OP2	2.08	0.53
2:2:39:DT:C2	2:2:40:DC:C5	2.96	0.53
3:A:44:GLU:C	3:A:46:LEU:H	2.14	0.53
3:A:57:THR:O	3:A:348:ARG:NH2	2.41	0.53
3:A:352:THR:HG22	3:A:353:VAL:HA	1.91	0.53
3:A:396:LEU:C	3:A:398:HIS:N	2.59	0.53
3:A:583:ALA:O	3:A:584:ARG:C	2.50	0.53
3:A:609:ARG:CZ	3:A:637:TYR:N	2.71	0.53
3:A:943:THR:HG23	3:A:945:LYS:H	1.73	0.53
3:A:1038:LEU:N	3:A:1038:LEU:HD22	2.22	0.53
4:B:71:GLU:OE2	4:B:419:LYS:HG2	2.08	0.53
4:B:157:LEU:H	4:B:157:LEU:HD23	1.72	0.53
4:B:250:HIS:O	4:B:250:HIS:CG	2.62	0.53
4:B:463:LYS:HG2	4:B:472:THR:CB	2.35	0.53
4:B:678:ASN:OD1	4:B:681:LEU:HA	2.09	0.53
4:B:703:ARG:NH1	4:B:708:LEU:HD13	2.23	0.53
4:B:843:ASP:CB	4:B:855:THR:HG21	2.38	0.53
5:C:101:VAL:HG11	5:C:107:ILE:HD11	1.87	0.53
5:D:118:VAL:HG11	5:D:142:ILE:HB	1.82	0.53
6:E:255:ASP:OD1	6:E:256:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:309:ALA:O	6:E:312:ALA:N	2.42	0.53
6:E:311:ASP:O	6:E:314:ILE:N	2.41	0.53
6:E:336:ASP:H	6:E:339:GLU:HG3	1.74	0.53
6:E:373:CYS:SG	6:E:444:PHE:HB3	2.49	0.53
6:E:391:ARG:O	6:E:392:LEU:C	2.46	0.53
6:E:583:SER:O	6:E:583:SER:OG	2.25	0.53
6:E:583:SER:C	6:E:585:THR:H	2.12	0.53
7:F:34:GLN:O	7:F:37:ASN:OD1	2.27	0.53
9:Y:125:GLY:O	9:Y:128:SER:HB3	2.07	0.53
1:1:58:DA:C2	2:2:68:DT:C2	2.82	0.53
3:A:293:THR:OG1	3:A:296:ASP:CG	2.51	0.53
3:A:338:VAL:O	3:A:339:GLY:C	2.49	0.53
3:A:341:ASN:O	3:A:344:GLU:HB3	2.08	0.53
3:A:489:ARG:HB3	3:A:524:VAL:HG13	1.91	0.53
3:A:616:THR:CA	3:A:635:ILE:HD11	2.38	0.53
4:B:105:LEU:O	4:B:107:ASP:N	2.42	0.53
4:B:285:PRO:HD2	4:B:1142:GLU:OE1	2.08	0.53
4:B:360:PRO:HA	4:B:390:ARG:CG	2.39	0.53
4:B:362:LYS:HD2	4:B:364:ARG:NH2	2.23	0.53
4:B:384:ILE:HG21	4:B:394:SER:HB3	1.91	0.53
4:B:545:VAL:HG22	4:B:829:ARG:HD3	1.90	0.53
4:B:604:LEU:HB2	4:B:631:TRP:HE3	1.69	0.53
4:B:610:GLU:CB	4:B:625:GLN:HE21	2.21	0.53
4:B:655:GLU:HG3	4:B:657:GLY:C	2.33	0.53
4:B:724:TYR:O	4:B:738:SER:HA	2.08	0.53
4:B:964:VAL:HG12	4:B:965:THR:H	1.74	0.53
4:B:1011:LEU:N	4:B:1012:PRO:CD	2.71	0.53
4:B:1225:ILE:C	4:B:1226:GLU:CD	2.76	0.53
5:C:86:ILE:HG13	5:C:125:GLN:HE22	1.73	0.53
5:C:130:ILE:HB	5:C:136:LEU:CG	2.39	0.53
6:E:283:ASN:O	6:E:286:LEU:N	2.41	0.53
6:E:344:ARG:O	6:E:345:PHE:C	2.47	0.53
6:E:419:LEU:HD23	6:E:419:LEU:C	2.34	0.53
6:E:582:GLY:CA	6:E:598:GLN:H	2.22	0.53
8:G:339:LEU:HB3	8:G:354:ILE:CD1	2.38	0.53
1:1:89:DA:H2"	1:1:90:DA:OP2	2.07	0.53
2:2:5:DC:H1'	2:2:6:DA:C8	2.43	0.53
2:2:26:DA:H4'	2:2:27:DA:OP2	2.09	0.53
3:A:29:ASP:OD1	3:A:29:ASP:O	2.27	0.53
3:A:487:ASP:C	3:A:512:TYR:HE1	2.17	0.53
3:A:847:GLN:O	3:A:850:ASP:OD2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1068:GLU:O	3:A:1069:SER:C	2.45	0.53
3:A:1085:ALA:O	3:A:1087:HIS:N	2.42	0.53
4:B:72:GLU:HG2	4:B:418:VAL:CG1	2.38	0.53
4:B:96:ASP:C	4:B:423:LEU:H	2.15	0.53
4:B:378:PHE:CD1	4:B:413:VAL:HG12	2.29	0.53
4:B:476:ARG:O	4:B:976:PRO:HG3	2.09	0.53
4:B:499:LYS:HZ2	4:B:890:GLY:H	1.56	0.53
4:B:535:ARG:O	4:B:839:VAL:HG13	2.09	0.53
4:B:928:LEU:HD11	4:B:934:ALA:N	2.23	0.53
4:B:1032:ARG:HB2	4:B:1078:PRO:HB3	1.90	0.53
4:B:1088:SER:HB2	4:B:1093:ILE:HG23	1.90	0.53
5:C:85:VAL:HA	5:C:125:GLN:HE22	1.72	0.53
5:C:86:ILE:C	5:C:87:LEU:HG	2.32	0.53
5:C:88:LYS:H	5:C:121:ILE:CD1	2.17	0.53
5:D:75:VAL:O	5:D:78:ILE:HB	2.09	0.53
6:E:541:VAL:HG13	6:E:542:ILE:H	1.72	0.53
6:E:555:TYR:C	6:E:556:VAL:HG23	2.34	0.53
8:G:124:LEU:O	8:G:126:ARG:N	2.42	0.53
9:X:28:PHE:HB3	9:X:32:LYS:CD	2.38	0.53
9:X:52:VAL:HG11	9:X:100:LEU:HD11	0.89	0.53
9:X:145:MET:CB	9:X:183:ILE:CG2	2.85	0.53
9:X:152:PHE:O	9:X:156:LEU:HG	2.09	0.53
1:1:77:DA:C2	1:1:78:DA:C2	2.97	0.53
2:2:34:DA:C4	2:2:35:DA:C8	2.96	0.53
3:A:485:GLU:C	3:A:487:ASP:N	2.65	0.53
3:A:552:ARG:O	3:A:555:MET:N	2.42	0.53
3:A:660:GLY:O	3:A:661:GLU:HB3	2.08	0.53
3:A:693:TRP:CD1	3:A:703:LEU:HD21	2.44	0.53
3:A:695:GLY:O	3:A:698:TYR:HB3	2.08	0.53
3:A:804:LEU:HD12	3:A:805:ARG:N	2.24	0.53
3:A:931:ILE:O	3:A:932:VAL:C	2.52	0.53
3:A:1085:ALA:HB3	6:E:13:LYS:CB	2.39	0.53
4:B:282:VAL:O	4:B:282:VAL:HG23	2.09	0.53
4:B:352:LYS:HZ3	4:B:389:PRO:CB	2.21	0.53
4:B:458:VAL:HG11	4:B:477:GLY:C	2.34	0.53
4:B:588:VAL:HG21	4:B:797:LEU:HG	1.90	0.53
4:B:771:VAL:HG13	4:B:794:GLN:HB3	1.90	0.53
4:B:811:PRO:HG2	4:B:812:LEU:CD1	2.38	0.53
4:B:928:LEU:HD11	4:B:934:ALA:CB	2.39	0.53
4:B:1038:VAL:HG22	4:B:1039:VAL:HG12	1.91	0.53
4:B:1123:ASN:O	4:B:1125:VAL:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:39:ALA:O	5:C:40:LEU:C	2.49	0.53
5:C:90:TYR:N	5:C:117:GLU:OE2	2.41	0.53
5:C:130:ILE:HB	5:C:136:LEU:HD21	1.90	0.53
5:D:25:LEU:O	5:D:193:ARG:HG2	2.09	0.53
5:D:57:ARG:HB2	5:D:139:GLU:OE1	2.09	0.53
6:E:227:ARG:O	6:E:228:LEU:C	2.48	0.53
6:E:276:TYR:O	6:E:278:ARG:N	2.42	0.53
8:G:116:VAL:O	8:G:117:ARG:C	2.50	0.53
8:G:376:LEU:C	8:G:376:LEU:HD12	2.34	0.53
9:Y:32:LYS:HG2	9:Y:33:THR:N	2.24	0.53
1:1:68:DT:C2'	1:1:69:DA:C8	2.92	0.53
1:1:84:DA:C6	2:2:42:DT:N3	2.77	0.53
1:1:89:DA:N6	1:1:90:DA:C6	2.77	0.53
1:1:101:DT:O4	1:1:102:DA:C6	2.62	0.53
3:A:33:ILE:HG22	3:A:34:GLN:N	2.23	0.53
3:A:236:MET:CB	3:A:240:ARG:HH11	2.22	0.53
3:A:623:ASP:HB3	3:A:629:SER:O	2.09	0.53
4:B:16:LEU:O	4:B:19:TRP:N	2.41	0.53
4:B:66:LEU:CD1	4:B:143:MET:CE	2.86	0.53
4:B:89:GLU:HA	4:B:370:THR:CA	2.39	0.53
4:B:174:ILE:O	4:B:177:TYR:HB2	2.09	0.53
4:B:175:SER:O	4:B:176:SER:C	2.47	0.53
4:B:538:GLU:HB2	4:B:539:ILE:O	2.07	0.53
4:B:548:GLN:HB2	4:B:753:PRO:HB2	1.91	0.53
4:B:582:VAL:C	4:B:814:ALA:HB1	2.33	0.53
4:B:646:LEU:CG	4:B:662:LYS:H	2.21	0.53
4:B:1144:ILE:O	4:B:1147:GLN:CA	2.57	0.53
4:B:1215:GLU:O	4:B:1219:VAL:HG12	2.09	0.53
6:E:94:THR:HG23	6:E:98:VAL:HG21	1.89	0.53
6:E:145:TYR:O	6:E:161:LEU:HA	2.09	0.53
6:E:224:LEU:O	6:E:226:LYS:N	2.42	0.53
6:E:252:ILE:O	6:E:253:PRO:C	2.45	0.53
6:E:564:VAL:HG12	6:E:565:GLU:N	2.24	0.53
8:G:87:GLN:HB3	8:G:91:ARG:HH22	1.74	0.53
8:G:139:LEU:HG	8:G:144:PHE:HB2	1.91	0.53
8:G:316:ASN:O	8:G:319:ARG:HD3	2.09	0.53
9:X:37:PRO:HD3	9:X:91:HIS:N	2.24	0.53
9:X:56:ARG:HB2	9:X:64:ILE:HG12	1.91	0.53
9:X:176:HIS:HB2	9:X:177:GLN:NE2	2.23	0.53
9:Y:35:PHE:CD1	9:Y:36:PHE:N	2.77	0.53
9:Y:46:PHE:CD2	9:Y:74:VAL:HG23	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:30:DG:OP2	2:2:30:DG:H8	1.92	0.53
2:2:31:DA:N1	2:2:32:DA:C4	2.77	0.53
2:2:37:DT:H4'	2:2:38:DT:OP1	2.08	0.53
2:2:49:DT:OP2	9:X:176:HIS:NE2	2.42	0.53
3:A:45:GLY:HA2	3:A:48:GLU:OE2	2.08	0.53
3:A:57:THR:HG23	3:A:63:LEU:C	2.33	0.53
3:A:270:GLY:O	3:A:290:ARG:NH2	2.41	0.53
3:A:433:ILE:HG22	3:A:433:ILE:O	2.07	0.53
3:A:734:GLU:CG	3:A:772:LYS:HZ1	2.20	0.53
3:A:783:PRO:CB	8:G:342:GLY:HA3	2.38	0.53
3:A:1078:GLN:N	3:A:1082:LEU:HD12	2.20	0.53
4:B:4:ARG:N	6:E:616:ASN:HD21	2.01	0.53
4:B:82:ARG:HB3	4:B:84:GLU:CD	2.34	0.53
4:B:285:PRO:C	4:B:287:THR:N	2.64	0.53
4:B:286:LEU:CD2	4:B:1142:GLU:CG	2.79	0.53
4:B:367:THR:CA	4:B:370:THR:HG1	2.21	0.53
4:B:526:PRO:HA	4:B:536:GLU:O	2.08	0.53
4:B:865:ILE:O	4:B:866:VAL:C	2.51	0.53
4:B:981:GLN:N	4:B:995:VAL:HA	2.23	0.53
5:C:57:ARG:HB2	5:C:139:GLU:OE1	2.09	0.53
5:D:72:ARG:HB3	5:D:73:GLU:CD	2.34	0.53
5:D:151:VAL:HG21	5:D:165:GLN:HG3	1.91	0.53
6:E:124:TYR:HD1	6:E:127:ILE:HD12	1.74	0.53
6:E:147:VAL:HB	6:E:152:ASN:HB3	1.89	0.53
6:E:231:ILE:O	6:E:234:PHE:N	2.42	0.53
6:E:406:LYS:O	6:E:410:ARG:HG2	2.09	0.53
6:E:443:ALA:CB	6:E:487:ALA:HB1	2.38	0.53
6:E:613:VAL:O	6:E:614:ILE:C	2.43	0.53
8:G:131:SER:O	8:G:133:TRP:N	2.41	0.53
8:G:132:GLU:O	8:G:135:GLU:O	2.27	0.53
8:G:338:ARG:HG2	8:G:343:LEU:CG	2.37	0.53
9:X:42:GLU:HG3	9:X:79:SER:N	2.24	0.53
9:Y:37:PRO:HB3	9:Y:89:PHE:HA	1.89	0.53
1:1:106:DG:C2	1:1:107:DG:C2	2.97	0.53
2:2:47:DT:C5'	2:2:47:DT:C6	2.91	0.53
3:A:50:LEU:C	3:A:52:SER:N	2.58	0.53
3:A:57:THR:CB	3:A:64:GLU:HA	2.39	0.53
3:A:80:SER:OG	3:A:82:GLU:HB2	2.08	0.53
3:A:180:ASN:O	3:A:181:ASP:HB3	2.09	0.53
3:A:236:MET:CA	3:A:239:TYR:HB2	2.38	0.53
3:A:437:GLU:HG2	3:A:438:GLY:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:469:GLY:HA3	3:A:521:PRO:O	2.08	0.53
3:A:495:ILE:O	3:A:497:VAL:N	2.41	0.53
3:A:584:ARG:O	3:A:584:ARG:HG2	2.09	0.53
3:A:604:THR:O	3:A:639:VAL:HG12	2.10	0.53
3:A:614:LEU:O	3:A:618:SER:N	2.34	0.53
3:A:618:SER:CA	3:A:621:SER:H	2.22	0.53
3:A:691:MET:HB3	3:A:692:PRO:HD2	1.91	0.53
3:A:797:ARG:HH21	3:A:798:ASP:HB3	1.73	0.53
3:A:819:LEU:HD23	3:A:836:VAL:HG13	1.90	0.53
4:B:252:LYS:NZ	4:B:255:GLU:O	2.41	0.53
4:B:264:ILE:O	4:B:264:ILE:CG2	2.49	0.53
4:B:463:LYS:HE3	4:B:466:ARG:CB	2.35	0.53
4:B:493:GLY:O	4:B:513:THR:HG21	2.08	0.53
4:B:520:GLY:HA2	4:B:806:GLU:O	2.09	0.53
4:B:544:VAL:HB	4:B:832:LEU:N	2.24	0.53
4:B:636:THR:HG21	4:B:783:LYS:HD3	1.91	0.53
4:B:877:LEU:HG	4:B:878:SER:N	2.24	0.53
4:B:895:ARG:HB2	4:B:896:ARG:HH12	1.73	0.53
4:B:1146:ARG:O	4:B:1147:GLN:C	2.48	0.53
5:D:76:LEU:O	5:D:78:ILE:N	2.42	0.53
6:E:206:ALA:CB	6:E:210:ARG:HE	2.21	0.53
6:E:467:ASP:CB	6:E:469:ASP:H	2.21	0.53
6:E:531:ALA:HA	6:E:555:TYR:O	2.09	0.53
7:F:30:ARG:O	7:F:31:ILE:C	2.46	0.53
8:G:319:ARG:H	8:G:319:ARG:HD2	1.74	0.53
9:Y:118:LEU:HD12	9:Y:119:SER:N	2.24	0.53
9:Y:169:THR:HB	9:Y:210:ILE:O	2.09	0.53
1:1:120:DT:C4	1:1:121:DG:C5	2.97	0.52
2:2:38:DT:C5	2:2:39:DT:H73	2.44	0.52
2:2:50:DG:C4	2:2:51:DT:C6	2.97	0.52
2:2:58:DA:N9	2:2:59:DG:C8	2.76	0.52
3:A:111:GLU:C	3:A:111:GLU:CD	2.76	0.52
3:A:224:GLU:O	3:A:226:GLU:CD	2.53	0.52
3:A:252:GLY:HA2	3:A:255:GLN:CD	2.33	0.52
3:A:467:GLU:CG	3:A:472:ARG:NH1	2.70	0.52
3:A:520:THR:O	3:A:522:GLU:N	2.43	0.52
3:A:520:THR:H	3:A:523:GLN:HE22	1.58	0.52
3:A:597:ASP:CG	3:A:662:ARG:HD2	2.33	0.52
3:A:1091:THR:CG2	3:A:1093:ALA:H	1.94	0.52
4:B:76:THR:HG23	4:B:90:ARG:HB2	1.91	0.52
4:B:149:ASP:HB3	4:B:155:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:168:THR:OG1	4:B:169:VAL:N	2.28	0.52
4:B:194:GLY:O	4:B:197:THR:OG1	2.27	0.52
4:B:349:VAL:O	4:B:350:ARG:C	2.51	0.52
4:B:520:GLY:O	4:B:541:THR:CG2	2.57	0.52
4:B:544:VAL:HA	4:B:758:VAL:HG12	1.91	0.52
4:B:664:ILE:HG22	4:B:665:PHE:N	2.24	0.52
4:B:759:SER:H	4:B:761:GLN:CG	2.19	0.52
4:B:920:ASP:H	4:B:940:ILE:HG23	1.73	0.52
5:C:9:VAL:HG12	5:C:22:LYS:HB3	1.86	0.52
5:C:76:LEU:O	5:C:78:ILE:N	2.42	0.52
6:E:75:LYS:HE2	6:E:88:ARG:HD3	1.91	0.52
6:E:232:ASP:O	6:E:233:ASN:C	2.47	0.52
6:E:263:ASP:C	6:E:265:GLY:N	2.67	0.52
8:G:183:LEU:O	8:G:185:GLN:N	2.42	0.52
9:X:33:THR:HB	9:X:92:ALA:O	2.08	0.52
9:X:53:LYS:N	9:X:95:PHE:HB3	2.24	0.52
9:X:104:PRO:HB2	9:X:106:GLU:HG2	1.91	0.52
9:X:177:GLN:O	9:X:180:ALA:N	2.42	0.52
3:A:109:ILE:HD12	3:A:111:GLU:CB	2.38	0.52
3:A:165:LEU:O	3:A:166:ILE:HG13	2.09	0.52
3:A:343:LEU:O	3:A:344:GLU:C	2.48	0.52
3:A:512:TYR:O	3:A:515:GLU:N	2.41	0.52
3:A:571:ARG:HD3	3:A:913:ARG:CD	2.40	0.52
4:B:3:PHE:C	4:B:3:PHE:CD2	2.86	0.52
4:B:203:VAL:HG13	4:B:1200:ALA:CB	2.39	0.52
4:B:362:LYS:HZ3	4:B:364:ARG:HH22	1.58	0.52
4:B:453:VAL:CG2	4:B:482:ILE:CD1	2.86	0.52
4:B:610:GLU:O	4:B:624:VAL:HB	2.09	0.52
4:B:614:LYS:HZ2	4:B:622:GLU:H	1.52	0.52
4:B:648:VAL:HA	4:B:654:VAL:HG11	1.91	0.52
4:B:819:ILE:N	4:B:820:PRO:HD3	2.24	0.52
4:B:907:THR:CA	4:B:966:ILE:HG22	2.39	0.52
4:B:1032:ARG:HB2	4:B:1078:PRO:CB	2.40	0.52
5:C:203:SER:O	5:C:204:ILE:HG12	2.09	0.52
5:D:63:HIS:HD2	5:D:65:PHE:N	2.06	0.52
6:E:133:LEU:C	6:E:135:ASP:H	2.16	0.52
6:E:374:GLY:HA3	6:E:455:GLN:CG	2.39	0.52
6:E:390:ASN:C	6:E:390:ASN:OD1	2.44	0.52
9:X:98:VAL:HG12	9:X:99:GLU:N	2.25	0.52
9:X:171:ASP:C	9:X:172:LEU:HG	2.34	0.52
1:1:78:DA:H1'	1:1:79:DA:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:101:DT:OP1	1:1:101:DT:O4'	2.26	0.52
1:1:114:DC:C2'	1:1:115:DA:H5'	2.39	0.52
1:1:119:DA:C4	2:2:6:DA:N6	2.78	0.52
2:2:46:DT:O2	2:2:46:DT:H2'	2.09	0.52
3:A:29:ASP:OD1	3:A:29:ASP:C	2.45	0.52
3:A:163:ALA:O	3:A:164:SER:OG	2.20	0.52
3:A:196:GLN:OE1	3:A:229:PHE:HD2	1.87	0.52
3:A:503:ILE:HG22	3:A:504:ILE:N	2.23	0.52
3:A:599:VAL:H	3:A:608:VAL:CG1	2.22	0.52
3:A:608:VAL:H	3:A:609:ARG:HG2	1.72	0.52
3:A:720:GLU:HG2	3:A:722:TYR:OH	2.10	0.52
3:A:900:GLU:O	3:A:901:CYS:O	2.27	0.52
4:B:109:VAL:HG13	4:B:110:VAL:N	2.25	0.52
4:B:234:LYS:C	4:B:236:SER:N	2.64	0.52
4:B:466:ARG:CZ	4:B:977:GLY:HA3	2.39	0.52
4:B:488:TYR:CE1	4:B:878:SER:HA	2.44	0.52
4:B:539:ILE:HG22	4:B:865:ILE:CB	2.40	0.52
4:B:1083:LEU:H	4:B:1083:LEU:CD1	2.22	0.52
5:C:46:SER:OG	5:C:47:ASN:OD1	2.27	0.52
5:C:72:ARG:HB3	5:C:73:GLU:OE1	2.09	0.52
5:D:42:ARG:O	5:D:43:VAL:C	2.44	0.52
5:D:46:SER:OG	5:D:47:ASN:OD1	2.27	0.52
5:D:203:SER:O	5:D:204:ILE:HG12	2.09	0.52
6:E:422:VAL:O	6:E:422:VAL:HG22	2.08	0.52
6:E:578:THR:HA	6:E:583:SER:O	2.08	0.52
8:G:81:SER:HB2	8:G:181:GLN:NE2	2.23	0.52
8:G:81:SER:CB	8:G:181:GLN:HE22	2.22	0.52
8:G:112:GLU:OE2	8:G:113:LEU:N	2.41	0.52
8:G:239:ILE:HG12	8:G:276:ILE:HG23	1.91	0.52
8:G:290:ILE:HG22	8:G:298:LEU:HD12	1.92	0.52
8:G:317:LEU:C	8:G:321:ASP:OD2	2.52	0.52
9:X:37:PRO:CD	9:X:57:VAL:HG11	2.39	0.52
1:1:68:DT:H2"	1:1:69:DA:O5'	2.10	0.52
1:1:91:DT:O2	1:1:92:DT:C6	2.62	0.52
1:1:116:DC:C4	1:1:117:DG:C6	2.97	0.52
2:2:5:DC:C2	2:2:6:DA:N7	2.77	0.52
3:A:185:VAL:HG22	3:A:197:VAL:O	2.07	0.52
3:A:258:ASP:OD1	3:A:258:ASP:C	2.40	0.52
3:A:258:ASP:OD1	3:A:258:ASP:N	2.28	0.52
3:A:333:GLN:CD	3:A:334:ASN:N	2.67	0.52
3:A:467:GLU:O	3:A:470:ARG:CG	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:598:VAL:HA	3:A:615:PRO:CB	2.36	0.52
3:A:618:SER:C	3:A:620:LYS:H	2.15	0.52
3:A:735:GLU:O	3:A:772:LYS:HA	2.08	0.52
3:A:757:ILE:HD11	3:A:769:LEU:O	2.09	0.52
3:A:913:ARG:C	3:A:914:PHE:CD1	2.85	0.52
3:A:1088:LYS:HG3	3:A:1089:VAL:N	2.24	0.52
4:B:66:LEU:CD1	4:B:143:MET:HE1	2.35	0.52
4:B:139:GLN:OE1	4:B:139:GLN:N	2.40	0.52
4:B:146:LEU:HD23	4:B:156:ASP:O	2.09	0.52
4:B:418:VAL:O	4:B:419:LYS:HG2	2.10	0.52
4:B:575:ARG:HD2	4:B:590:GLU:HB2	1.90	0.52
4:B:591:LEU:HG	4:B:592:ILE:N	2.20	0.52
4:B:676:GLN:CD	4:B:679:ASP:H	2.18	0.52
4:B:794:GLN:O	4:B:795:LEU:HD12	2.10	0.52
4:B:938:GLY:HA3	4:B:969:GLY:H	1.75	0.52
4:B:1236:LYS:C	4:B:1239:VAL:HG12	2.34	0.52
5:C:201:ASN:HD21	5:C:203:SER:H	1.55	0.52
5:D:86:ILE:C	5:D:87:LEU:HG	2.32	0.52
6:E:482:GLU:O	6:E:483:SER:C	2.48	0.52
6:E:555:TYR:O	6:E:556:VAL:CG2	2.58	0.52
9:X:120:MET:SD	9:Y:112:LEU:HD21	2.50	0.52
1:1:88:DA:C6	2:2:37:DT:C4	2.98	0.52
2:2:39:DT:C2	2:2:40:DC:C6	2.97	0.52
2:2:54:DA:H4'	2:2:55:DA:OP1	2.09	0.52
3:A:100:ARG:HG2	3:A:101:LEU:HG	1.91	0.52
3:A:417:PHE:CD2	3:A:418:ALA:N	2.77	0.52
3:A:582:GLY:O	3:A:583:ALA:C	2.48	0.52
3:A:610:VAL:C	3:A:632:GLY:HA3	2.35	0.52
3:A:693:TRP:HD1	3:A:696:TYR:O	1.92	0.52
4:B:113:PHE:HD1	4:B:117:ASN:ND2	2.07	0.52
4:B:388:GLU:HB2	4:B:397:PRO:HG2	1.92	0.52
4:B:423:LEU:C	4:B:424:LEU:HD23	2.34	0.52
4:B:453:VAL:HG22	4:B:988:VAL:CG2	2.27	0.52
4:B:496:LEU:HD12	4:B:498:VAL:HG23	1.92	0.52
4:B:901:ARG:O	4:B:904:ASP:N	2.43	0.52
4:B:1088:SER:HG	4:B:1093:ILE:CG2	2.18	0.52
5:D:160:SER:O	5:D:161:LEU:CG	2.55	0.52
6:E:172:ASP:O	6:E:173:GLN:C	2.52	0.52
6:E:254:PRO:HA	6:E:257:ARG:CZ	2.40	0.52
6:E:329:ARG:HH11	8:G:289:PRO:HG3	1.73	0.52
8:G:83:ARG:O	8:G:86:LEU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:112:GLU:CD	8:G:112:GLU:C	2.77	0.52
8:G:127:ASP:HB2	8:G:129:ARG:CD	2.36	0.52
8:G:194:ALA:HB2	8:G:213:TRP:CD1	2.44	0.52
8:G:266:MET:O	8:G:266:MET:HG3	2.09	0.52
8:G:340:ARG:HB2	8:G:354:ILE:CD1	2.34	0.52
9:X:150:VAL:HA	9:X:153:LEU:CB	2.39	0.52
9:X:173:LYS:HZ2	9:X:209:LYS:HD3	1.75	0.52
1:1:79:DA:C4	1:1:80:DA:N3	2.77	0.52
2:2:4:DG:C2	2:2:5:DC:C2	2.97	0.52
2:2:42:DT:C4	2:2:43:DG:N1	2.77	0.52
3:A:72:TYR:O	3:A:74:LEU:HG	2.09	0.52
3:A:258:ASP:HA	3:A:262:PHE:HD1	1.73	0.52
3:A:492:PRO:O	3:A:492:PRO:HG2	2.09	0.52
3:A:548:ASP:O	3:A:549:ASP:C	2.50	0.52
3:A:561:ARG:C	3:A:562:GLN:HG3	2.35	0.52
3:A:723:GLU:HB3	3:A:837:ARG:CD	2.39	0.52
3:A:739:GLU:CD	3:A:740:ILE:N	2.68	0.52
3:A:768:ILE:HD13	3:A:805:ARG:HG3	1.90	0.52
3:A:968:PHE:CD1	3:A:970:ARG:N	2.72	0.52
4:B:4:ARG:HG2	6:E:565:GLU:HG2	1.92	0.52
4:B:295:CYS:HB2	4:B:298:CYS:H	1.73	0.52
4:B:356:THR:HB	4:B:357:ILE:HD12	1.90	0.52
4:B:377:LEU:HD12	4:B:378:PHE:CD2	2.45	0.52
4:B:546:LEU:HB2	4:B:830:LEU:HB2	1.91	0.52
4:B:916:VAL:HB	4:B:943:VAL:HB	1.92	0.52
4:B:983:GLU:CD	4:B:984:ASP:H	2.18	0.52
5:C:186:ASP:HA	5:C:190:PRO:HA	1.92	0.52
5:D:19:HIS:NE2	5:D:202:GLY:HA2	2.24	0.52
5:D:82:MET:C	5:D:84:GLU:OE1	2.53	0.52
6:E:49:THR:HG23	6:E:50:LEU:N	2.14	0.52
6:E:228:LEU:O	6:E:229:ARG:C	2.50	0.52
8:G:371:LYS:HG2	8:G:375:LYS:CD	2.39	0.52
9:X:35:PHE:CZ	9:X:92:ALA:HB2	2.45	0.52
9:Y:67:ALA:O	9:Y:68:LEU:HD23	2.10	0.52
9:Y:90:TYR:O	9:Y:91:HIS:C	2.52	0.52
1:1:58:DA:C1'	1:1:59:DT:C5	2.91	0.52
1:1:75:DA:H2'	1:1:75:DA:OP2	2.10	0.52
1:1:80:DA:C1'	1:1:81:DT:H5'	2.40	0.52
1:1:89:DA:C6	2:2:37:DT:C2	2.74	0.52
2:2:52:DA:C6	2:2:53:DT:C4	2.98	0.52
3:A:188:ASP:C	3:A:189:LYS:HG2	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:261:PHE:CD1	3:A:261:PHE:N	2.74	0.52
3:A:295:GLY:O	3:A:298:LEU:HG	2.10	0.52
3:A:371:VAL:O	3:A:372:ALA:C	2.50	0.52
3:A:938:GLU:O	3:A:941:ASP:OD1	2.27	0.52
4:B:69:ALA:CB	4:B:101:THR:HG21	2.39	0.52
4:B:87:GLU:N	4:B:89:GLU:OE1	2.43	0.52
4:B:109:VAL:O	4:B:110:VAL:C	2.52	0.52
4:B:134:ILE:O	4:B:138:ARG:N	2.31	0.52
4:B:234:LYS:O	4:B:235:LEU:C	2.52	0.52
4:B:244:VAL:O	4:B:245:GLY:C	2.48	0.52
4:B:440:LYS:HE2	4:B:998:VAL:HG22	1.92	0.52
4:B:641:LYS:O	4:B:680:ILE:HB	2.10	0.52
4:B:907:THR:CG2	4:B:965:THR:HA	2.20	0.52
4:B:1090:PRO:CA	4:B:1093:ILE:CG1	2.81	0.52
5:C:82:MET:C	5:C:84:GLU:OE1	2.53	0.52
5:C:106:THR:O	5:C:107:ILE:HD13	2.09	0.52
5:D:28:LEU:HD11	5:D:194:LEU:HD12	1.91	0.52
5:D:82:MET:O	5:D:85:VAL:N	2.39	0.52
5:D:104:PRO:CA	5:D:131:ALA:HA	2.32	0.52
5:D:217:LEU:O	5:D:220:LEU:N	2.42	0.52
6:E:32:ASN:O	6:E:32:ASN:OD1	2.28	0.52
6:E:320:GLY:C	6:E:321:ARG:NE	2.68	0.52
6:E:461:CYS:O	6:E:465:ASN:N	2.41	0.52
6:E:499:SER:O	6:E:500:PRO:C	2.46	0.52
6:E:573:PRO:O	6:E:574:VAL:HG23	2.09	0.52
6:E:582:GLY:HA3	6:E:598:GLN:CB	2.38	0.52
8:G:200:HIS:CG	8:G:200:HIS:O	2.63	0.52
8:G:314:SER:O	8:G:315:LYS:C	2.53	0.52
8:G:338:ARG:HD2	8:G:343:LEU:HB3	1.91	0.52
9:X:26:GLU:O	9:X:100:LEU:N	2.42	0.52
9:X:88:ARG:NH2	9:X:129:ARG:HH22	2.08	0.52
9:X:131:LEU:CD1	9:X:135:MET:HE1	2.35	0.52
9:Y:49:LYS:H	9:Y:99:GLU:C	2.14	0.52
1:1:74:DT:H2"	1:1:75:DA:OP2	2.09	0.52
1:1:75:DA:C5	2:2:52:DA:C2	2.97	0.52
1:1:78:DA:C6	2:2:48:DT:N3	2.78	0.52
1:1:119:DA:H1'	1:1:120:DT:C4	2.45	0.52
3:A:65:LEU:HD11	3:A:364:LEU:HD11	1.91	0.52
3:A:110:LYS:O	3:A:361:PRO:HG3	2.09	0.52
3:A:184:TRP:CD1	3:A:184:TRP:N	2.76	0.52
3:A:198:LEU:CD2	3:A:298:LEU:CB	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:455:GLN:NE2	3:A:456:TYR:CE1	2.78	0.52
3:A:1017:PHE:HE2	3:A:1022:VAL:HA	1.74	0.52
4:B:101:THR:CA	4:B:420:LYS:O	2.58	0.52
4:B:372:HIS:CE1	4:B:418:VAL:HG21	2.45	0.52
4:B:443:LYS:HB2	4:B:997:LEU:N	2.25	0.52
4:B:452:GLU:O	4:B:452:GLU:HG3	2.09	0.52
4:B:511:ALA:HB3	4:B:876:ILE:HG21	1.91	0.52
4:B:710:PRO:HD3	4:B:722:LEU:HA	1.91	0.52
4:B:908:LEU:HD23	4:B:966:ILE:HG21	1.91	0.52
4:B:981:GLN:CB	4:B:982:ILE:HD12	2.37	0.52
5:D:21:SER:O	5:D:22:LYS:C	2.48	0.52
6:E:565:GLU:CD	6:E:565:GLU:O	2.53	0.52
7:F:41:ARG:O	7:F:45:GLU:N	2.42	0.52
8:G:285:SER:OG	8:G:288:THR:N	2.26	0.52
9:X:46:PHE:O	9:X:47:LEU:C	2.53	0.52
9:Y:170:ILE:CG2	9:Y:171:ASP:H	2.19	0.52
2:2:35:DA:C6	2:2:36:DT:C4	2.98	0.52
3:A:40:TRP:CE3	3:A:41:PHE:N	2.78	0.52
3:A:131:ASN:C	3:A:133:ALA:H	2.18	0.52
3:A:259:SER:O	3:A:261:PHE:N	2.43	0.52
3:A:374:ILE:O	3:A:377:PHE:N	2.43	0.52
3:A:517:SER:O	3:A:519:THR:HG23	2.10	0.52
3:A:551:ASN:O	3:A:554:LEU:CA	2.58	0.52
3:A:693:TRP:CD1	3:A:696:TYR:O	2.63	0.52
3:A:1044:ASP:O	3:A:1047:GLY:N	2.43	0.52
4:B:75:ALA:O	4:B:76:THR:C	2.52	0.52
4:B:87:GLU:C	4:B:89:GLU:H	2.16	0.52
4:B:302:SER:HB2	4:B:309:VAL:CG1	2.40	0.52
4:B:352:LYS:O	4:B:353:MET:CG	2.53	0.52
4:B:439:GLU:OE1	4:B:439:GLU:N	2.39	0.52
4:B:621:TYR:HB2	4:B:772:GLN:O	2.09	0.52
4:B:634:GLU:HB3	4:B:781:ARG:NH2	2.24	0.52
4:B:653:TYR:HA	4:B:671:VAL:HG23	1.92	0.52
4:B:856:SER:OG	4:B:873:ARG:CZ	2.58	0.52
4:B:1159:ASP:CA	4:B:1180:MET:HE1	2.39	0.52
5:C:59:ALA:HA	5:C:162:ASP:OD2	2.09	0.52
5:C:73:GLU:OE1	5:C:73:GLU:N	2.43	0.52
5:D:72:ARG:HE	6:E:602:ILE:HD13	1.74	0.52
5:D:159:THR:CB	5:D:163:PHE:HB3	2.40	0.52
6:E:63:PHE:CD1	6:E:63:PHE:N	2.70	0.52
6:E:239:SER:HA	6:E:243:TRP:CZ3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:598:GLN:C	6:E:602:ILE:HD12	2.35	0.52
8:G:286:LEU:C	8:G:287:GLU:OE1	2.52	0.52
9:X:173:LYS:HE3	9:X:208:LYS:HB2	1.91	0.52
9:X:176:HIS:HB3	9:X:190:VAL:CG2	2.24	0.52
1:1:98:DG:C8	1:1:99:DT:H73	2.44	0.52
2:2:50:DG:N1	2:2:51:DT:C4	2.78	0.52
3:A:33:ILE:CG2	3:A:34:GLN:N	2.68	0.52
3:A:257:LEU:CG	3:A:258:ASP:N	2.73	0.52
3:A:293:THR:OG1	3:A:296:ASP:OD1	2.28	0.52
3:A:349:GLU:O	3:A:350:ARG:C	2.52	0.52
3:A:368:LYS:O	3:A:370:LEU:N	2.42	0.52
3:A:497:VAL:HG23	3:A:501:GLY:O	2.10	0.52
3:A:644:ARG:NH1	3:A:721:LYS:HB2	2.25	0.52
3:A:788:LEU:O	3:A:789:ARG:C	2.51	0.52
4:B:32:MET:O	4:B:34:ASP:N	2.43	0.52
4:B:79:ARG:HD3	4:B:84:GLU:CB	2.39	0.52
4:B:236:SER:O	4:B:239:LEU:N	2.35	0.52
4:B:419:LYS:HZ1	4:B:420:LYS:HE2	1.73	0.52
4:B:525:LEU:HD13	4:B:857:LEU:HD13	1.92	0.52
4:B:610:GLU:HB2	4:B:625:GLN:HE21	1.75	0.52
4:B:618:LYS:HA	4:B:621:TYR:OH	2.10	0.52
5:C:117:GLU:CD	5:C:117:GLU:C	2.78	0.52
5:D:184:ARG:NH2	5:D:187:GLY:H	2.07	0.52
6:E:57:LEU:HB3	6:E:273:ASN:OD1	2.10	0.52
6:E:67:LYS:O	6:E:68:ASP:C	2.52	0.52
6:E:117:TYR:CD2	6:E:244:MET:HG2	2.45	0.52
6:E:282:ARG:O	6:E:283:ASN:C	2.45	0.52
6:E:345:PHE:O	6:E:349:LEU:HB3	2.09	0.52
7:F:39:ALA:HA	7:F:42:ARG:HG2	1.92	0.52
8:G:100:GLU:HA	8:G:103:LEU:CD1	2.31	0.52
8:G:119:ARG:O	8:G:122:GLU:HG3	2.10	0.52
8:G:170:ALA:HB1	8:G:183:LEU:HB3	1.91	0.52
8:G:249:LEU:HG	8:G:262:ILE:HD13	1.92	0.52
8:G:324:LYS:O	8:G:325:VAL:C	2.47	0.52
8:G:379:PRO:HD3	9:X:37:PRO:HB2	1.92	0.52
9:X:162:VAL:HG21	9:X:171:ASP:HB2	1.92	0.52
9:Y:56:ARG:HA	9:Y:90:TYR:CG	2.44	0.52
9:Y:78:LEU:HD21	9:Y:88:ARG:NH1	2.24	0.52
1:1:65:DA:C2'	1:1:66:DG:H5"	2.41	0.51
1:1:119:DA:C8	2:2:6:DA:N6	2.78	0.51
1:1:120:DT:H1'	1:1:121:DG:H5'	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:4:DG:N3	2:2:5:DC:C2	2.78	0.51
3:A:44:GLU:O	3:A:47:ILE:HG12	2.11	0.51
3:A:196:GLN:HG2	3:A:199:LEU:HD13	1.92	0.51
3:A:429:ARG:O	3:A:430:ILE:HD13	2.09	0.51
3:A:512:TYR:CE2	3:A:513:ARG:NE	2.77	0.51
3:A:603:ALA:HA	3:A:655:PRO:CG	2.41	0.51
3:A:808:ASN:C	3:A:810:GLU:OE1	2.53	0.51
3:A:815:VAL:C	3:A:816:ASP:OD1	2.52	0.51
4:B:16:LEU:HD23	4:B:17:ILE:HA	1.92	0.51
4:B:20:ALA:O	4:B:21:PHE:C	2.51	0.51
4:B:195:TYR:CE1	4:B:199:ARG:NH1	2.78	0.51
4:B:245:GLY:O	4:B:260:ARG:CZ	2.58	0.51
4:B:286:LEU:N	4:B:1142:GLU:OE2	2.40	0.51
4:B:462:GLN:C	4:B:472:THR:HG21	2.35	0.51
4:B:520:GLY:N	4:B:806:GLU:HA	2.25	0.51
4:B:666:CYS:C	4:B:668:ASN:N	2.68	0.51
4:B:1012:PRO:O	4:B:1015:GLU:HB3	2.10	0.51
4:B:1081:GLN:HG2	4:B:1082:PRO:HD2	1.92	0.51
4:B:1127:MET:O	4:B:1128:VAL:C	2.43	0.51
4:B:1130:GLN:C	4:B:1133:GLY:H	2.17	0.51
5:C:23:PHE:HB2	5:C:196:LEU:HB3	1.91	0.51
5:C:75:VAL:O	5:C:78:ILE:HB	2.09	0.51
5:C:207:GLN:O	5:C:210:LEU:N	2.43	0.51
5:D:179:SER:C	5:D:180:VAL:HG23	2.35	0.51
6:E:42:PRO:C	6:E:57:LEU:HD23	2.33	0.51
6:E:202:LEU:HA	6:E:205:GLU:CD	2.35	0.51
6:E:228:LEU:N	6:E:228:LEU:CD2	2.72	0.51
6:E:426:HIS:NE2	6:E:484:GLN:OE1	2.43	0.51
6:E:530:GLY:C	6:E:533:LYS:HG2	2.36	0.51
7:F:38:ARG:HD3	7:F:65:MET:SD	2.50	0.51
7:F:63:ILE:O	7:F:67:ASP:OD1	2.29	0.51
8:G:258:THR:C	8:G:262:ILE:CG1	2.67	0.51
9:Y:49:LYS:CB	9:Y:99:GLU:HB3	2.40	0.51
9:Y:98:VAL:HG12	9:Y:99:GLU:N	2.25	0.51
1:1:94:DT:C2	1:1:95:DT:C6	2.98	0.51
1:1:102:DA:C6	1:1:103:DA:N6	2.79	0.51
2:2:44:DA:H2"	2:2:45:DA:H8	1.75	0.51
2:2:59:DG:H2'	2:2:60:DC:O4'	2.10	0.51
3:A:30:LEU:HD12	3:A:30:LEU:O	2.09	0.51
3:A:599:VAL:H	3:A:608:VAL:CB	2.23	0.51
3:A:939:ALA:O	3:A:940:ARG:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:993:ARG:HH11	6:E:355:ASP:CB	2.23	0.51
4:B:69:ALA:HA	4:B:419:LYS:HB3	1.92	0.51
4:B:83:GLY:O	4:B:973:ARG:HG3	2.10	0.51
4:B:93:LYS:NZ	4:B:375:ASP:HA	2.20	0.51
4:B:162:ASN:OD1	4:B:162:ASN:C	2.54	0.51
4:B:362:LYS:O	4:B:392:GLU:HB3	2.10	0.51
4:B:369:ARG:NH1	4:B:1000:GLU:HG2	2.26	0.51
4:B:606:PHE:HA	4:B:630:LEU:H	1.76	0.51
4:B:721:GLU:OE1	4:B:741:VAL:HB	2.10	0.51
4:B:852:SER:OG	4:B:876:ILE:HA	2.11	0.51
4:B:882:GLY:H	4:B:899:VAL:HG22	1.75	0.51
4:B:922:ILE:CG2	4:B:936:GLU:HG3	2.41	0.51
4:B:922:ILE:CD1	4:B:966:ILE:HD11	2.39	0.51
5:C:183:VAL:O	5:C:183:VAL:HG12	2.10	0.51
5:D:100:LEU:HD21	5:D:137:GLU:HA	1.86	0.51
6:E:206:ALA:HA	6:E:210:ARG:HG3	1.92	0.51
6:E:325:GLY:N	6:E:331:LEU:HD11	2.22	0.51
6:E:362:ILE:HG12	6:E:432:ARG:NH2	2.15	0.51
6:E:398:VAL:HG21	6:E:404:ALA:HA	1.92	0.51
6:E:530:GLY:HA2	6:E:533:LYS:CE	2.39	0.51
6:E:570:ASP:OD2	6:E:588:TYR:HB3	2.09	0.51
8:G:285:SER:C	8:G:287:GLU:H	2.17	0.51
9:X:171:ASP:HB3	9:X:209:LYS:HD2	1.91	0.51
2:2:55:DA:H2"	2:2:56:DG:OP1	2.10	0.51
3:A:68:LEU:HD23	3:A:99:THR:O	2.11	0.51
3:A:97:VAL:O	3:A:114:VAL:N	2.43	0.51
3:A:655:PRO:HG2	5:C:72:ARG:HD2	1.93	0.51
3:A:1054:ALA:HA	3:A:1059:LYS:HZ1	1.73	0.51
4:B:15:ASN:OD1	4:B:15:ASN:N	2.33	0.51
4:B:83:GLY:HA3	4:B:971:PRO:O	2.10	0.51
4:B:121:SER:O	4:B:123:TYR:N	2.44	0.51
4:B:250:HIS:O	4:B:251:PRO:C	2.51	0.51
4:B:250:HIS:CG	4:B:254:LYS:HG2	2.46	0.51
4:B:453:VAL:HA	4:B:483:LEU:H	1.75	0.51
4:B:515:LEU:HG	4:B:872:ALA:HB3	1.91	0.51
4:B:655:GLU:HG3	4:B:657:GLY:N	2.25	0.51
4:B:711:GLY:HA2	4:B:718:VAL:CG2	2.40	0.51
4:B:726:GLN:HG3	4:B:728:VAL:C	2.35	0.51
4:B:789:GLU:OE1	4:B:792:ARG:HB2	2.10	0.51
4:B:970:ARG:CB	4:B:972:TYR:CE1	2.92	0.51
4:B:1124:GLU:HA	4:B:1127:MET:CE	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1231:TRP:CD1	6:E:11:TYR:HD2	2.27	0.51
5:C:183:VAL:HG23	5:C:192:ASP:H	1.74	0.51
5:D:203:SER:C	5:D:204:ILE:HG12	2.35	0.51
5:D:207:GLN:O	5:D:210:LEU:N	2.43	0.51
6:E:142:PHE:HA	6:E:188:ILE:O	2.10	0.51
6:E:148:LEU:O	6:E:149:SER:C	2.53	0.51
6:E:380:ALA:O	6:E:381:ILE:C	2.46	0.51
6:E:588:TYR:C	6:E:590:TYR:H	2.18	0.51
8:G:106:LYS:HZ2	8:G:150:ILE:HG23	1.74	0.51
8:G:130:ASP:H	8:G:134:ALA:HA	1.76	0.51
8:G:184:ILE:O	8:G:185:GLN:C	2.46	0.51
8:G:233:VAL:HA	8:G:236:TYR:CD1	2.45	0.51
8:G:267:GLU:O	8:G:268:MET:HG2	2.10	0.51
8:G:378:HIS:CE1	9:X:58:TYR:H	2.29	0.51
9:X:85:LYS:O	9:X:85:LYS:HG2	2.10	0.51
1:1:59:DT:C6	1:1:60:DT:C4	2.98	0.51
1:1:74:DT:H2”	1:1:75:DA:H5’	1.93	0.51
1:1:79:DA:C4	1:1:80:DA:C4	2.98	0.51
1:1:81:DT:C2	2:2:46:DT:H71	2.46	0.51
1:1:100:DA:H8	1:1:100:DA:P	2.34	0.51
1:1:108:DA:C4	1:1:109:DG:C6	2.99	0.51
1:1:110:DC:O3’	1:1:111:DT:O4’	2.29	0.51
2:2:32:DA:N1	2:2:33:DA:C2	2.78	0.51
2:2:34:DA:H2’	2:2:34:DA:N3	2.23	0.51
2:2:66:DA:P	2:2:66:DA:H2’	2.50	0.51
3:A:41:PHE:CE1	3:A:332:LEU:HD23	2.45	0.51
3:A:93:VAL:HB	3:A:121:LEU:HD22	1.92	0.51
3:A:597:ASP:H	3:A:615:PRO:CA	2.23	0.51
3:A:613:GLN:O	3:A:617:ALA:N	2.43	0.51
3:A:644:ARG:HG3	3:A:648:ASP:HA	1.91	0.51
3:A:668:VAL:O	3:A:668:VAL:HG13	2.10	0.51
3:A:934:GLY:O	3:A:937:GLN:HB3	2.10	0.51
4:B:195:TYR:CD1	4:B:199:ARG:NH1	2.78	0.51
4:B:247:ASP:HA	4:B:258:ALA:O	2.10	0.51
4:B:394:SER:HB3	4:B:403:HIS:NE2	2.26	0.51
4:B:480:ILE:HA	4:B:481:TRP:CE3	2.46	0.51
4:B:529:THR:O	4:B:531:GLY:N	2.34	0.51
4:B:697:PRO:HB2	4:B:701:ILE:HD12	1.90	0.51
4:B:773:ARG:HB3	4:B:792:ARG:N	2.25	0.51
4:B:1010:GLY:C	4:B:1012:PRO:HD2	2.36	0.51
4:B:1088:SER:O	4:B:1092:GLU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:19:HIS:HE2	5:C:202:GLY:HA2	1.75	0.51
5:C:185:ALA:O	5:C:186:ASP:C	2.53	0.51
5:C:211:SER:O	5:C:212:SER:C	2.54	0.51
5:D:73:GLU:OE1	5:D:73:GLU:N	2.43	0.51
5:D:124:THR:O	5:D:124:THR:HG22	2.10	0.51
5:D:205:SER:HG	5:D:206:PRO:HD2	1.74	0.51
6:E:146:VAL:O	6:E:146:VAL:HG23	2.03	0.51
6:E:255:ASP:CG	6:E:256:LEU:HD12	2.35	0.51
6:E:370:ILE:C	6:E:371:HIS:ND1	2.68	0.51
6:E:378:GLU:HG2	6:E:379:MET:H	1.75	0.51
6:E:404:ALA:O	6:E:407:LEU:N	2.44	0.51
6:E:405:LYS:HA	6:E:408:ILE:HD12	1.92	0.51
6:E:499:SER:O	6:E:501:ALA:N	2.44	0.51
6:E:510:SER:HG	6:E:511:GLN:N	2.04	0.51
7:F:59:LEU:O	7:F:60:ARG:O	2.29	0.51
8:G:118:GLU:C	8:G:118:GLU:CD	2.78	0.51
8:G:270:ILE:HA	8:G:273:LEU:HB2	1.92	0.51
8:G:336:VAL:HG23	8:G:354:ILE:HG12	1.92	0.51
9:Y:45:TYR:HE2	9:Y:78:LEU:CD1	2.24	0.51
1:1:71:DT:C3'	9:X:145:MET:HE1	2.40	0.51
2:2:50:DG:C5	2:2:51:DT:C5	2.98	0.51
2:2:57:DT:O3'	2:2:58:DA:C8	2.63	0.51
3:A:57:THR:O	3:A:348:ARG:CZ	2.59	0.51
3:A:140:GLN:O	3:A:325:VAL:HG23	2.11	0.51
3:A:299:ALA:O	3:A:300:ALA:C	2.50	0.51
3:A:301:VAL:O	3:A:302:ASP:C	2.53	0.51
3:A:685:ASN:HA	3:A:977:ALA:O	2.10	0.51
3:A:801:ASP:O	3:A:803:SER:N	2.38	0.51
3:A:984:HIS:ND1	3:A:988:ASP:OD2	2.32	0.51
3:A:1036:GLU:C	3:A:1036:GLU:OE1	2.53	0.51
4:B:19:TRP:NE1	4:B:23:HIS:CE1	2.78	0.51
4:B:91:PHE:HA	4:B:94:VAL:HG12	1.93	0.51
4:B:101:THR:OG1	4:B:102:SER:N	2.42	0.51
4:B:154:ILE:HD12	4:B:154:ILE:H	1.75	0.51
4:B:221:PRO:C	4:B:222:VAL:HG13	2.35	0.51
4:B:283:ARG:HD2	4:B:298:CYS:N	2.25	0.51
4:B:497:VAL:HG23	4:B:498:VAL:HG13	1.92	0.51
4:B:623:VAL:HG21	4:B:791:LEU:CD1	2.40	0.51
4:B:630:LEU:HB3	4:B:743:GLU:CB	2.40	0.51
4:B:982:ILE:HG22	4:B:983:GLU:H	1.74	0.51
4:B:1231:TRP:CD2	6:E:11:TYR:HB3	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:108:THR:H	5:C:111:HIS:CE1	2.29	0.51
5:C:215:GLY:N	5:D:225:LYS:HE2	2.25	0.51
5:D:23:PHE:HD2	5:D:196:LEU:HD22	1.75	0.51
6:E:128:LEU:C	6:E:227:ARG:HH12	2.18	0.51
6:E:232:ASP:O	6:E:235:ILE:CG1	2.59	0.51
6:E:259:MET:SD	6:E:259:MET:C	2.93	0.51
6:E:386:PRO:C	6:E:388:VAL:N	2.65	0.51
6:E:464:PHE:O	6:E:465:ASN:HB3	2.11	0.51
7:F:28:ARG:O	7:F:29:TYR:C	2.48	0.51
8:G:163:LEU:HD12	8:G:164:ARG:CG	2.41	0.51
8:G:193:ARG:NH1	8:G:197:LYS:NZ	2.58	0.51
9:X:29:GLU:H	9:X:32:LYS:HD2	1.75	0.51
9:X:145:MET:N	9:X:148:ARG:HH21	2.08	0.51
1:1:75:DA:C5	1:1:76:DC:C5	2.98	0.51
1:1:76:DC:C4	2:2:51:DT:O4	2.64	0.51
1:1:111:DT:H6	1:1:111:DT:P	2.34	0.51
3:A:129:ILE:C	3:A:130:ILE:CG2	2.83	0.51
3:A:222:THR:HG23	3:A:224:GLU:O	2.10	0.51
3:A:274:ARG:HA	3:A:274:ARG:NE	2.25	0.51
3:A:381:SER:OG	3:A:383:LEU:HD12	2.11	0.51
3:A:413:GLU:C	3:A:415:ALA:N	2.67	0.51
3:A:435:THR:HG22	3:A:436:PRO:O	2.11	0.51
3:A:596:GLY:O	3:A:662:ARG:NH2	2.44	0.51
3:A:668:VAL:C	3:A:669:LEU:HG	2.31	0.51
3:A:789:ARG:O	3:A:791:ILE:N	2.44	0.51
3:A:998:TYR:CE1	3:A:1048:ARG:NH1	2.79	0.51
3:A:1045:MET:O	3:A:1048:ARG:N	2.44	0.51
4:B:186:THR:C	4:B:188:LEU:H	2.19	0.51
4:B:360:PRO:HG3	4:B:397:PRO:HD3	1.93	0.51
4:B:410:ILE:O	4:B:411:TYR:C	2.53	0.51
4:B:440:LYS:HD2	4:B:1000:GLU:HB3	1.91	0.51
4:B:452:GLU:CA	4:B:987:LEU:HG	2.18	0.51
4:B:455:PHE:O	4:B:456:ALA:HB2	2.09	0.51
4:B:486:GLU:HB3	4:B:879:LYS:HE2	1.91	0.51
4:B:513:THR:O	4:B:873:ARG:HA	2.11	0.51
4:B:591:LEU:N	4:B:793:THR:O	2.41	0.51
4:B:676:GLN:NE2	4:B:680:ILE:O	2.44	0.51
4:B:1226:GLU:O	4:B:1227:GLY:C	2.48	0.51
4:B:1239:VAL:HG13	4:B:1240:ILE:H	1.70	0.51
5:C:181:GLU:HG3	5:C:182:GLU:N	2.26	0.51
5:D:114:LEU:CD1	5:D:115:PRO:O	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:63:PHE:O	6:E:102:ARG:HG3	2.10	0.51
6:E:266:ARG:NH2	8:G:282:LEU:O	2.44	0.51
6:E:524:ASN:OD1	6:E:525:PRO:HD2	2.11	0.51
9:Y:78:LEU:C	9:Y:80:LEU:H	2.18	0.51
9:Y:206:HIS:CE1	9:Y:211:THR:HG21	2.45	0.51
1:1:61:DT:O2	1:1:62:DT:C2	2.64	0.51
1:1:89:DA:N6	2:2:36:DT:N3	2.58	0.51
1:1:107:DG:N7	1:1:108:DA:N6	2.58	0.51
3:A:38:PHE:O	3:A:40:TRP:N	2.43	0.51
3:A:68:LEU:HD21	3:A:98:PRO:HB2	1.92	0.51
3:A:96:TYR:CD1	3:A:115:PHE:HB3	2.46	0.51
3:A:221:LYS:HB3	3:A:225:LYS:CB	2.41	0.51
3:A:395:GLU:O	3:A:396:LEU:O	2.28	0.51
3:A:636:ARG:O	3:A:636:ARG:HG2	2.01	0.51
3:A:716:SER:OG	3:A:717:ILE:N	2.29	0.51
3:A:846:ILE:HG13	3:A:847:GLN:N	2.25	0.51
3:A:1077:LEU:CB	3:A:1082:LEU:HD11	2.25	0.51
4:B:60:PRO:C	4:B:62:LYS:N	2.69	0.51
4:B:473:THR:CG2	4:B:977:GLY:N	2.74	0.51
4:B:524:ARG:HB3	4:B:538:GLU:CD	2.36	0.51
4:B:544:VAL:HB	4:B:832:LEU:H	1.75	0.51
4:B:562:TYR:N	4:B:562:TYR:CD1	2.76	0.51
4:B:631:TRP:HZ2	4:B:782:VAL:CG2	2.22	0.51
4:B:700:VAL:O	4:B:701:ILE:C	2.53	0.51
4:B:710:PRO:HB3	4:B:720:THR:C	2.36	0.51
4:B:1078:PRO:HB2	4:B:1100:LEU:HD13	1.92	0.51
4:B:1106:VAL:HA	4:B:1109:CYS:SG	2.51	0.51
5:C:110:SER:HA	5:C:120:VAL:HG21	1.92	0.51
5:C:203:SER:C	5:C:204:ILE:HG12	2.35	0.51
5:C:227:ILE:CD1	5:D:5:GLN:CA	2.87	0.51
5:D:26:GLU:CB	5:D:27:PRO:HD3	2.40	0.51
6:E:252:ILE:HG22	6:E:253:PRO:HD2	1.93	0.51
6:E:299:VAL:O	6:E:300:ARG:C	2.50	0.51
8:G:104:ALA:O	8:G:105:ARG:C	2.54	0.51
8:G:315:LYS:O	8:G:316:ASN:C	2.50	0.51
9:Y:57:VAL:H	9:Y:90:TYR:HD1	1.58	0.51
9:Y:169:THR:OG1	9:Y:170:ILE:O	2.23	0.51
1:1:86:DG:C2	1:1:87:DA:C5	2.99	0.51
1:1:121:DG:C6	1:1:122:DC:N4	2.79	0.51
2:2:34:DA:C2'	2:2:34:DA:N3	2.73	0.51
2:2:45:DA:N3	2:2:46:DT:O4'	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:104:LYS:HD3	4:B:557:GLN:O	2.11	0.51
3:A:141:ILE:O	3:A:141:ILE:CG2	2.58	0.51
3:A:256:LEU:O	3:A:257:LEU:C	2.49	0.51
3:A:512:TYR:O	3:A:513:ARG:C	2.51	0.51
3:A:590:ILE:HD11	3:A:637:TYR:HB3	1.93	0.51
3:A:617:ALA:CA	3:A:620:LYS:N	2.73	0.51
3:A:733:PRO:O	3:A:775:PRO:HD3	2.11	0.51
3:A:1036:GLU:O	3:A:1037:LEU:C	2.53	0.51
3:A:1070:PHE:O	3:A:1072:VAL:N	2.44	0.51
4:B:4:ARG:NH2	4:B:16:LEU:HD11	2.26	0.51
4:B:71:GLU:HA	4:B:74:ARG:HD2	1.92	0.51
4:B:634:GLU:HB2	4:B:688:PRO:HD3	1.91	0.51
4:B:636:THR:H	4:B:784:SER:HB3	1.75	0.51
4:B:731:PRO:O	4:B:733:GLY:N	2.43	0.51
4:B:910:ILE:HG12	4:B:912:ALA:N	2.26	0.51
4:B:920:ASP:H	4:B:940:ILE:CG2	2.24	0.51
5:C:84:GLU:N	5:C:84:GLU:CD	2.56	0.51
5:D:130:ILE:HD11	5:D:134:GLY:CA	2.40	0.51
5:D:130:ILE:HG12	5:D:131:ALA:N	2.25	0.51
5:D:184:ARG:HA	5:D:186:ASP:CG	2.36	0.51
5:D:200:THR:O	5:D:202:GLY:N	2.44	0.51
8:G:291:GLY:C	8:G:293:GLU:N	2.67	0.51
9:X:54:LEU:O	9:X:65:THR:HA	2.10	0.51
1:1:95:DT:O2	1:1:96:DC:C6	2.63	0.51
1:1:105:DG:H5"	1:1:105:DG:C8	2.45	0.51
2:2:38:DT:C4	2:2:39:DT:C4	2.99	0.51
2:2:50:DG:C5	2:2:51:DT:C6	2.99	0.51
2:2:65:DA:H2"	2:2:66:DA:N7	2.25	0.51
3:A:58:ASP:C	3:A:60:THR:H	2.18	0.51
3:A:96:TYR:CD1	3:A:96:TYR:N	2.76	0.51
3:A:336:VAL:HG13	3:A:337:ARG:N	2.26	0.51
3:A:347:ILE:HG12	3:A:351:MET:HB3	1.93	0.51
3:A:1038:LEU:HD12	6:E:352:LYS:HZ3	1.76	0.51
4:B:73:ILE:HG13	4:B:74:ARG:N	2.26	0.51
4:B:95:ILE:HG23	4:B:96:ASP:N	2.26	0.51
4:B:168:THR:O	4:B:171:GLU:OE1	2.29	0.51
4:B:474:ALA:HB3	4:B:477:GLY:CA	2.38	0.51
4:B:694:VAL:HG12	4:B:734:PRO:C	2.36	0.51
5:C:200:THR:O	5:C:202:GLY:N	2.44	0.51
5:D:28:LEU:HB2	5:D:192:ASP:HB3	1.91	0.51
5:D:182:GLU:HA	5:D:191:LYS:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:28:ARG:NE	6:E:102:ARG:NE	2.59	0.51
6:E:145:TYR:H	6:E:163:SER:H	1.58	0.51
6:E:316:ASN:O	6:E:318:ARG:N	2.44	0.51
7:F:30:ARG:HH12	7:F:34:GLN:CD	2.19	0.51
8:G:157:LYS:O	8:G:161:SER:HB3	2.11	0.51
8:G:200:HIS:C	8:G:201:GLU:CD	2.78	0.51
8:G:218:ILE:HG22	8:G:219:THR:N	2.23	0.51
8:G:318:LEU:HD12	8:G:390:ARG:O	2.01	0.51
8:G:338:ARG:CG	8:G:343:LEU:HB2	2.36	0.51
9:X:67:ALA:O	9:X:68:LEU:HD23	2.11	0.51
9:X:194:LEU:O	9:X:197:LEU:HB2	2.11	0.51
9:Y:43:ARG:HH12	9:Y:108:VAL:HG21	1.76	0.51
1:1:80:DA:H2"	1:1:81:DT:C6	2.46	0.51
1:1:85:DG:H1'	1:1:86:DG:P	2.51	0.51
1:1:121:DG:C2	1:1:122:DC:C2	2.99	0.51
3:A:203:GLY:O	3:A:205:SER:N	2.38	0.51
3:A:218:TYR:O	3:A:220:GLN:OE1	2.28	0.51
3:A:392:PRO:HG2	3:A:393:LEU:N	2.25	0.51
3:A:465:PRO:HD2	3:A:475:GLN:NE2	2.25	0.51
3:A:540:SER:OG	3:A:541:MET:HE1	2.08	0.51
3:A:617:ALA:O	3:A:620:LYS:HB2	2.11	0.51
3:A:822:ARG:HA	3:A:826:ASP:CG	2.35	0.51
3:A:1033:THR:O	3:A:1036:GLU:N	2.44	0.51
4:B:76:THR:HG22	4:B:90:ARG:HD3	1.92	0.51
4:B:205:GLN:O	4:B:317:ILE:HG23	2.11	0.51
4:B:415:GLY:O	4:B:422:GLN:HB2	2.10	0.51
4:B:447:SER:OG	4:B:449:LEU:O	2.29	0.51
4:B:614:LYS:NZ	4:B:622:GLU:N	2.51	0.51
4:B:925:GLY:C	4:B:933:PHE:HB3	2.35	0.51
4:B:943:VAL:HG23	4:B:964:VAL:HG13	1.93	0.51
4:B:986:ASP:O	4:B:987:LEU:C	2.53	0.51
5:C:55:ALA:HA	5:C:165:GLN:CA	2.36	0.51
5:C:176:VAL:HG23	5:C:197:GLU:O	2.11	0.51
5:D:159:THR:HB	5:D:163:PHE:HB3	1.93	0.51
6:E:73:CYS:HB3	6:E:89:CYS:H	1.75	0.51
6:E:102:ARG:HG3	6:E:102:ARG:HH11	1.75	0.51
6:E:305:MET:O	6:E:308:GLU:OE1	2.29	0.51
6:E:516:GLY:O	6:E:519:TYR:N	2.44	0.51
8:G:131:SER:N	8:G:134:ALA:HB2	2.26	0.51
8:G:350:THR:HG1	8:G:352:GLU:CD	2.13	0.51
9:X:211:THR:O	9:X:211:THR:OG1	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:35:PHE:CD2	9:Y:88:ARG:NE	2.67	0.51
9:Y:37:PRO:HG3	9:Y:89:PHE:C	2.36	0.51
9:Y:88:ARG:C	9:Y:90:TYR:H	2.18	0.51
1:1:58:DA:H4'	1:1:59:DT:O5'	2.11	0.50
1:1:78:DA:C6	2:2:48:DT:C4	2.98	0.50
1:1:103:DA:H2'	1:1:103:DA:O5'	2.11	0.50
1:1:113:DT:H2"	1:1:114:DC:O5'	2.10	0.50
1:1:115:DA:N3	1:1:115:DA:O4'	2.44	0.50
2:2:35:DA:C5	2:2:36:DT:O4	2.65	0.50
3:A:236:MET:O	3:A:240:ARG:N	2.42	0.50
3:A:493:GLY:N	3:A:528:ALA:HB3	2.27	0.50
3:A:968:PHE:CE1	4:B:47:ALA:O	2.52	0.50
4:B:214:CYS:HA	4:B:289:GLU:O	2.11	0.50
4:B:235:LEU:O	4:B:236:SER:C	2.53	0.50
4:B:268:LEU:O	4:B:272:ILE:HG23	2.11	0.50
4:B:495:GLU:O	4:B:512:GLU:N	2.44	0.50
4:B:562:TYR:CE1	4:B:578:PRO:HG2	2.46	0.50
4:B:575:ARG:HB3	4:B:587:VAL:HB	1.93	0.50
4:B:714:LEU:H	4:B:717:GLN:C	2.19	0.50
4:B:731:PRO:C	4:B:733:GLY:H	2.18	0.50
4:B:1011:LEU:HB2	4:B:1012:PRO:CD	2.40	0.50
4:B:1128:VAL:HG13	4:B:1129:TYR:CD1	2.46	0.50
5:C:62:SER:O	5:C:164:LEU:HD11	2.10	0.50
5:C:179:SER:C	5:C:180:VAL:HG23	2.35	0.50
8:G:87:GLN:CB	8:G:91:ARG:HH22	2.24	0.50
8:G:122:GLU:CD	8:G:123:LYS:N	2.69	0.50
8:G:212:TRP:O	8:G:213:TRP:C	2.50	0.50
8:G:351:LEU:HD23	8:G:352:GLU:OE1	2.10	0.50
9:X:169:THR:HB	9:X:212:VAL:H	1.76	0.50
9:Y:213:HIS:HB3	9:Y:214:LYS:NZ	2.13	0.50
1:1:74:DT:H2"	1:1:75:DA:C5'	2.41	0.50
1:1:84:DA:C2	2:2:42:DT:O4	2.63	0.50
3:A:74:LEU:CG	3:A:95:MET:HG3	2.36	0.50
3:A:169:ARG:NE	3:A:337:ARG:NH2	2.60	0.50
3:A:222:THR:HG23	3:A:225:LYS:CA	2.41	0.50
3:A:672:GLY:O	3:A:673:SER:C	2.51	0.50
3:A:850:ASP:C	3:A:851:LYS:O	2.51	0.50
3:A:1023:TRP:CH2	4:B:198:ARG:HG2	2.46	0.50
3:A:1097:SER:O	3:A:1098:LEU:HD23	2.11	0.50
4:B:87:GLU:N	4:B:87:GLU:OE1	2.33	0.50
4:B:87:GLU:OE2	4:B:443:LYS:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:250:HIS:CE1	4:B:252:LYS:NZ	2.79	0.50
4:B:437:ASN:HB3	4:B:1003:LYS:HG3	1.94	0.50
4:B:449:LEU:HD21	4:B:482:ILE:HG12	1.93	0.50
4:B:454:LYS:HA	4:B:985:GLY:H	1.77	0.50
4:B:507:ASN:O	4:B:507:ASN:ND2	2.44	0.50
4:B:549:ALA:HB3	4:B:828:GLN:O	2.11	0.50
4:B:553:VAL:HG21	4:B:562:TYR:CD2	2.45	0.50
4:B:595:ARG:NH1	4:B:596:TYR:H	2.09	0.50
4:B:604:LEU:CB	4:B:631:TRP:HE3	2.24	0.50
4:B:651:GLY:HA2	4:B:731:PRO:HD2	1.93	0.50
4:B:1155:ASP:O	4:B:1156:ASP:C	2.54	0.50
4:B:1222:GLU:C	4:B:1224:ALA:N	2.58	0.50
4:B:1252:ASN:HD22	7:F:33:VAL:HG21	1.70	0.50
5:C:227:ILE:CD1	5:D:5:GLN:HB2	2.41	0.50
5:D:55:ALA:HA	5:D:165:GLN:CA	2.36	0.50
5:D:159:THR:HA	5:D:163:PHE:HD2	1.76	0.50
6:E:53:GLU:C	6:E:54:MET:HG3	2.27	0.50
6:E:268:ALA:HB1	8:G:286:LEU:CD1	2.41	0.50
6:E:412:ASP:CG	6:E:413:PRO:CD	2.74	0.50
8:G:135:GLU:O	8:G:135:GLU:HG2	2.10	0.50
8:G:202:LYS:O	8:G:204:TYR:N	2.42	0.50
8:G:318:LEU:N	8:G:388:TYR:CZ	2.59	0.50
9:X:176:HIS:ND1	9:X:190:VAL:CG2	2.57	0.50
1:1:92:DT:C2'	1:1:93:DT:H72	2.42	0.50
1:1:97:DT:H1'	1:1:98:DG:C5'	2.41	0.50
1:1:100:DA:C2	8:G:204:TYR:OH	2.63	0.50
2:2:27:DA:H2"	8:G:237:GLU:OE2	2.11	0.50
2:2:34:DA:H2'	2:2:35:DA:C1'	2.41	0.50
2:2:35:DA:C5	2:2:36:DT:C4	2.99	0.50
3:A:384:SER:OG	3:A:384:SER:O	2.22	0.50
3:A:409:GLY:C	3:A:410:LEU:HD12	2.36	0.50
3:A:597:ASP:HA	3:A:661:GLU:O	2.11	0.50
3:A:608:VAL:N	3:A:609:ARG:HG2	2.25	0.50
4:B:573:ASN:N	4:B:590:GLU:H	2.08	0.50
4:B:655:GLU:HG3	4:B:657:GLY:CA	2.41	0.50
4:B:667:GLN:O	4:B:667:GLN:HG3	2.11	0.50
4:B:864:THR:O	4:B:864:THR:CG2	2.60	0.50
4:B:922:ILE:HD13	4:B:966:ILE:HD11	1.93	0.50
4:B:1016:GLU:OE1	4:B:1017:LEU:N	2.44	0.50
5:C:212:SER:O	5:C:213:ALA:C	2.51	0.50
5:D:148:TYR:CE2	5:D:171:MET:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:149:ARG:HD2	5:D:149:ARG:C	2.36	0.50
5:D:176:VAL:HG23	5:D:197:GLU:O	2.11	0.50
6:E:118:LEU:C	6:E:120:GLY:N	2.68	0.50
6:E:260:VAL:CG1	6:E:261:GLN:N	2.70	0.50
6:E:514:VAL:O	6:E:515:LEU:C	2.46	0.50
6:E:621:GLU:HG3	6:E:622:ALA:N	2.25	0.50
8:G:83:ARG:HD3	8:G:86:LEU:HB3	1.92	0.50
8:G:263:ALA:HA	8:G:266:MET:CB	2.33	0.50
8:G:324:LYS:C	8:G:327:ASP:H	2.19	0.50
9:X:171:ASP:HB3	9:X:209:LYS:CE	2.42	0.50
9:Y:26:GLU:O	9:Y:100:LEU:N	2.42	0.50
9:Y:78:LEU:HG	9:Y:88:ARG:NH1	2.23	0.50
1:1:81:DT:C2	1:1:82:DT:C6	3.00	0.50
1:1:95:DT:H2”	1:1:96:DC:H6	1.76	0.50
3:A:62:LYS:O	3:A:105:GLU:OE1	2.29	0.50
3:A:109:ILE:HB	3:A:111:GLU:HB2	1.93	0.50
3:A:344:GLU:CD	3:A:345:ARG:N	2.70	0.50
3:A:350:ARG:NH2	3:A:363:SER:C	2.69	0.50
3:A:453:VAL:HA	3:A:458:PHE:O	2.12	0.50
3:A:514:GLN:N	3:A:514:GLN:CD	2.68	0.50
3:A:574:VAL:O	3:A:574:VAL:CG1	2.57	0.50
3:A:579:GLU:O	3:A:581:GLN:N	2.44	0.50
3:A:846:ILE:O	3:A:847:GLN:HB3	2.11	0.50
3:A:934:GLY:O	3:A:935:LYS:C	2.52	0.50
3:A:1039:THR:O	3:A:1041:LYS:N	2.45	0.50
4:B:85:ILE:HA	4:B:371:ARG:HE	1.76	0.50
4:B:480:ILE:HA	4:B:481:TRP:CZ3	2.47	0.50
4:B:521:GLY:N	4:B:864:THR:HA	2.27	0.50
4:B:550:THR:H	4:B:566:THR:H	1.60	0.50
4:B:643:ILE:CG2	4:B:676:GLN:HE21	2.24	0.50
4:B:932:ILE:C	4:B:933:PHE:CD1	2.90	0.50
4:B:967:ARG:HG2	4:B:968:ALA:N	2.27	0.50
4:B:1013:ARG:O	4:B:1014:ILE:C	2.49	0.50
4:B:1153:ARG:HB2	4:B:1167:LEU:HG	1.93	0.50
5:C:124:THR:HG22	5:C:124:THR:O	2.10	0.50
5:C:161:LEU:HB3	5:C:163:PHE:CE2	2.46	0.50
5:D:160:SER:C	5:D:161:LEU:HG	2.36	0.50
7:F:38:ARG:O	7:F:39:ALA:C	2.46	0.50
8:G:119:ARG:CG	8:G:120:LEU:N	2.74	0.50
8:G:292:LYS:O	8:G:292:LYS:HG2	2.12	0.50
9:X:43:ARG:HD3	9:X:105:ILE:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:176:HIS:CB	9:X:190:VAL:CG2	2.75	0.50
9:X:185:SER:OG	9:X:186:THR:N	2.45	0.50
9:Y:126:LEU:HD23	9:Y:130:ILE:CG1	2.41	0.50
1:1:78:DA:C6	2:2:48:DT:O4	2.55	0.50
1:1:98:DG:O6	2:2:29:DA:N6	2.45	0.50
2:2:38:DT:C2	2:2:39:DT:C5	3.00	0.50
3:A:96:TYR:CA	3:A:115:PHE:HA	2.28	0.50
3:A:104:LYS:HZ2	4:B:559:ARG:HD2	1.76	0.50
3:A:153:ILE:CG2	3:A:157:GLY:HA2	2.41	0.50
3:A:167:PRO:HA	3:A:269:LEU:HD12	1.93	0.50
3:A:185:VAL:CG1	3:A:200:LYS:HZ1	2.25	0.50
3:A:392:PRO:O	3:A:393:LEU:C	2.39	0.50
3:A:455:GLN:NE2	3:A:456:TYR:CZ	2.79	0.50
3:A:610:VAL:HA	3:A:632:GLY:O	2.11	0.50
3:A:664:VAL:O	3:A:665:ALA:C	2.54	0.50
3:A:735:GLU:O	3:A:773:VAL:N	2.38	0.50
3:A:941:ASP:OD1	3:A:942:GLU:N	2.45	0.50
4:B:72:GLU:HA	4:B:418:VAL:O	2.11	0.50
4:B:103:GLU:O	4:B:105:LEU:N	2.45	0.50
4:B:151:GLN:OE1	4:B:152:GLY:N	2.44	0.50
4:B:323:ILE:O	4:B:324:GLY:C	2.52	0.50
4:B:369:ARG:HD3	4:B:999:PHE:HB2	1.94	0.50
4:B:575:ARG:N	4:B:588:VAL:O	2.43	0.50
4:B:601:GLY:C	4:B:634:GLU:H	2.19	0.50
4:B:724:TYR:HE1	4:B:727:TYR:CE1	2.29	0.50
4:B:742:VAL:HG23	4:B:744:PHE:CE1	2.47	0.50
4:B:925:GLY:HA2	4:B:933:PHE:HB3	1.93	0.50
4:B:970:ARG:HD2	4:B:970:ARG:N	2.27	0.50
4:B:1111:SER:O	4:B:1112:HIS:C	2.51	0.50
4:B:1202:LEU:O	4:B:1204:THR:N	2.44	0.50
5:D:90:TYR:HA	5:D:144:ARG:NH2	2.27	0.50
6:E:586:VAL:HG13	6:E:586:VAL:O	2.12	0.50
9:X:119:SER:C	9:X:123:LEU:HD13	2.36	0.50
9:Y:162:VAL:CG1	9:Y:171:ASP:HB2	2.42	0.50
1:1:87:DA:O3'	1:1:88:DA:H4'	1.98	0.50
1:1:114:DC:H5'	1:1:114:DC:N1	2.26	0.50
2:2:10:DG:N3	2:2:10:DG:O4'	2.44	0.50
2:2:35:DA:H2'	2:2:36:DT:H71	1.92	0.50
2:2:57:DT:C1'	2:2:58:DA:C4	2.91	0.50
3:A:96:TYR:HA	3:A:115:PHE:N	2.26	0.50
3:A:239:TYR:CD1	3:A:248:PRO:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:366:ASN:OD1	3:A:366:ASN:C	2.55	0.50
3:A:590:ILE:HD11	3:A:637:TYR:CB	2.42	0.50
3:A:606:ILE:HG12	3:A:609:ARG:NH2	2.25	0.50
3:A:620:LYS:HG2	3:A:630:GLN:CB	2.42	0.50
3:A:787:LEU:O	3:A:791:ILE:HD12	2.12	0.50
3:A:1016:ARG:HG3	6:E:351:GLY:O	2.11	0.50
4:B:196:LEU:O	4:B:198:ARG:N	2.45	0.50
4:B:225:MET:HE3	4:B:1127:MET:HG2	1.94	0.50
4:B:232:LEU:C	4:B:233:ILE:HG13	2.35	0.50
4:B:252:LYS:O	4:B:254:LYS:O	2.29	0.50
4:B:268:LEU:HD23	4:B:268:LEU:O	2.11	0.50
4:B:283:ARG:CG	4:B:298:CYS:CA	2.86	0.50
4:B:453:VAL:HG23	4:B:988:VAL:N	2.14	0.50
4:B:511:ALA:N	4:B:876:ILE:HG12	2.27	0.50
4:B:710:PRO:C	4:B:712:GLU:N	2.69	0.50
4:B:798:GLU:CD	4:B:798:GLU:H	2.19	0.50
4:B:818:LEU:CG	4:B:819:ILE:H	1.99	0.50
4:B:1091:HIS:HE1	4:B:1092:GLU:CG	2.20	0.50
4:B:1110:ALA:O	4:B:1113:ALA:HB3	2.12	0.50
5:C:61:VAL:HG12	5:C:63:HIS:N	2.27	0.50
5:C:72:ARG:HD2	5:C:72:ARG:O	2.12	0.50
5:D:80:MET:C	5:D:82:MET:N	2.67	0.50
6:E:255:ASP:C	6:E:257:ARG:N	2.65	0.50
6:E:265:GLY:HA2	8:G:278:LYS:HE3	1.88	0.50
6:E:406:LYS:HG2	6:E:407:LEU:N	2.26	0.50
6:E:479:LEU:C	6:E:480:SER:O	2.50	0.50
7:F:56:LYS:HB2	7:F:59:LEU:HD23	1.94	0.50
8:G:139:LEU:HD23	8:G:144:PHE:CD1	2.47	0.50
8:G:322:LEU:HA	8:G:325:VAL:CG1	2.40	0.50
9:X:112:LEU:HG	9:X:119:SER:HB3	1.92	0.50
9:Y:69:LEU:HD11	9:Y:73:SER:CB	2.40	0.50
1:1:84:DA:N1	2:2:42:DT:N3	2.59	0.50
1:1:118:DG:C6	1:1:119:DA:C5	3.00	0.50
2:2:54:DA:H2"	2:2:55:DA:O5'	2.12	0.50
3:A:281:LEU:C	3:A:283:LEU:HG	2.37	0.50
3:A:374:ILE:CG1	3:A:375:LYS:N	2.74	0.50
3:A:527:VAL:HG22	3:A:528:ALA:O	2.10	0.50
3:A:585:ASP:O	3:A:586:SER:C	2.48	0.50
3:A:607:ARG:HB3	3:A:611:SER:HB3	1.93	0.50
3:A:810:GLU:O	3:A:811:LYS:HD3	2.12	0.50
4:B:36:LEU:C	4:B:36:LEU:CD1	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:89:GLU:HA	4:B:370:THR:N	2.27	0.50
4:B:250:HIS:ND1	4:B:252:LYS:HA	2.27	0.50
4:B:250:HIS:CG	4:B:254:LYS:CG	2.94	0.50
4:B:479:LEU:HB2	4:B:481:TRP:CH2	2.47	0.50
4:B:524:ARG:CG	4:B:538:GLU:OE2	2.60	0.50
4:B:602:GLY:HA2	4:B:634:GLU:CG	2.35	0.50
4:B:631:TRP:HZ2	4:B:782:VAL:HG22	1.74	0.50
4:B:649:GLU:C	4:B:652:GLN:O	2.55	0.50
4:B:726:GLN:OE1	4:B:737:LEU:HD23	2.10	0.50
4:B:1235:LEU:HD11	4:B:1245:ILE:HG12	1.93	0.50
5:D:101:VAL:N	5:D:136:LEU:HB2	2.20	0.50
6:E:128:LEU:CD1	6:E:244:MET:HE1	2.42	0.50
6:E:241:PRO:O	6:E:244:MET:HB2	2.11	0.50
6:E:278:ARG:O	6:E:280:ILE:N	2.45	0.50
6:E:278:ARG:C	6:E:280:ILE:N	2.64	0.50
8:G:166:VAL:HA	8:G:169:ILE:HD12	1.94	0.50
9:Y:35:PHE:CE1	9:Y:88:ARG:O	2.65	0.50
9:Y:117:GLU:HA	9:Y:120:MET:HG2	1.94	0.50
9:Y:169:THR:HA	9:Y:212:VAL:CB	2.38	0.50
1:1:81:DT:H1’	1:1:82:DT:O4’	2.11	0.50
1:1:83:DC:C6	1:1:83:DC:H5’	2.47	0.50
2:2:36:DT:C6	2:2:37:DT:H71	2.47	0.50
3:A:66:HIS:HD2	3:A:100:ARG:HB3	1.71	0.50
3:A:293:THR:OG1	3:A:295:GLY:N	2.45	0.50
3:A:295:GLY:O	3:A:296:ASP:C	2.52	0.50
3:A:307:LEU:HA	3:A:311:ILE:N	2.23	0.50
3:A:647:GLN:HB2	3:A:649:THR:HG23	1.94	0.50
3:A:1027:ALA:HB3	6:E:438:ARG:HB3	1.94	0.50
4:B:77:GLU:O	4:B:78:VAL:C	2.55	0.50
4:B:85:ILE:CD1	4:B:372:HIS:HA	2.42	0.50
4:B:295:CYS:HB2	4:B:298:CYS:CB	2.42	0.50
4:B:437:ASN:OD1	4:B:1003:LYS:HG3	2.12	0.50
4:B:617:ALA:HB1	4:B:777:LYS:NZ	2.27	0.50
4:B:631:TRP:CH2	4:B:782:VAL:CG2	2.95	0.50
4:B:687:LYS:HG3	4:B:739:ARG:CD	2.41	0.50
4:B:882:GLY:C	4:B:900:LEU:H	2.20	0.50
4:B:1143:VAL:O	4:B:1144:ILE:C	2.47	0.50
4:B:1145:VAL:C	4:B:1148:MET:H	2.07	0.50
4:B:1146:ARG:C	4:B:1148:MET:N	2.64	0.50
4:B:1248:GLY:HA2	7:F:29:TYR:CE1	2.47	0.50
5:C:144:ARG:O	5:C:144:ARG:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:39:ALA:O	5:D:40:LEU:C	2.49	0.50
5:D:77:GLU:O	5:D:78:ILE:C	2.53	0.50
5:D:208:GLU:O	5:D:209:ALA:C	2.53	0.50
6:E:20:GLU:O	6:E:24:GLN:N	2.45	0.50
6:E:116:TRP:C	6:E:118:LEU:N	2.59	0.50
6:E:316:ASN:C	6:E:318:ARG:N	2.68	0.50
6:E:382:GLU:O	6:E:383:LEU:C	2.44	0.50
6:E:535:PHE:CG	6:E:541:VAL:HB	2.46	0.50
6:E:608:THR:HG23	6:E:612:ARG:HD2	1.93	0.50
6:E:621:GLU:C	6:E:623:LEU:N	2.65	0.50
8:G:114:GLU:CD	8:G:115:ARG:N	2.70	0.50
8:G:128:PRO:O	8:G:129:ARG:C	2.55	0.50
8:G:132:GLU:O	8:G:135:GLU:HG2	2.12	0.50
8:G:180:PHE:O	8:G:184:ILE:HG12	2.11	0.50
8:G:326:LEU:HD12	8:G:327:ASP:HA	1.94	0.50
8:G:329:LEU:HD12	8:G:329:LEU:C	2.32	0.50
8:G:389:ILE:O	8:G:389:ILE:CG2	2.58	0.50
9:Y:77:VAL:HG23	9:Y:77:VAL:O	2.12	0.50
9:Y:169:THR:HB	9:Y:212:VAL:H	1.76	0.50
1:1:77:DA:N1	2:2:50:DG:C5	2.79	0.50
2:2:46:DT:H72	2:2:47:DT:C2	2.46	0.50
3:A:235:LEU:HG	3:A:236:MET:HG2	1.94	0.50
3:A:250:VAL:O	3:A:251:LEU:C	2.53	0.50
3:A:254:GLN:C	3:A:254:GLN:CD	2.80	0.50
3:A:272:VAL:HG23	3:A:273:GLY:H	1.76	0.50
3:A:423:HIS:O	3:A:426:HIS:N	2.42	0.50
3:A:512:TYR:CE2	3:A:513:ARG:CZ	2.95	0.50
3:A:676:GLU:CD	3:A:677:GLY:N	2.70	0.50
3:A:676:GLU:O	3:A:678:GLY:N	2.44	0.50
3:A:912:VAL:CG1	3:A:914:PHE:CZ	2.95	0.50
3:A:1077:LEU:O	3:A:1078:GLN:C	2.42	0.50
4:B:82:ARG:O	4:B:84:GLU:N	2.45	0.50
4:B:93:LYS:HE2	4:B:375:ASP:CA	2.34	0.50
4:B:149:ASP:N	4:B:153:GLU:O	2.44	0.50
4:B:169:VAL:O	4:B:172:TYR:CB	2.59	0.50
4:B:438:THR:O	4:B:1000:GLU:HB2	2.12	0.50
4:B:442:VAL:HA	4:B:997:LEU:O	2.12	0.50
4:B:561:ASN:N	4:B:561:ASN:OD1	2.44	0.50
4:B:562:TYR:O	4:B:563:LEU:C	2.55	0.50
4:B:762:THR:O	4:B:762:THR:HG22	2.12	0.50
4:B:777:LYS:HD2	4:B:777:LYS:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:61:VAL:HG12	5:D:63:HIS:N	2.27	0.50
5:D:154:GLY:C	5:D:155:ARG:HG3	2.37	0.50
6:E:387:PHE:O	6:E:390:ASN:HB3	2.12	0.50
6:E:503:GLY:O	6:E:504:ARG:C	2.53	0.50
8:G:87:GLN:O	8:G:88:GLU:C	2.52	0.50
8:G:114:GLU:C	8:G:117:ARG:H	2.18	0.50
8:G:291:GLY:C	8:G:293:GLU:H	2.19	0.50
8:G:327:ASP:OD1	8:G:334:ARG:NH1	2.41	0.50
9:X:37:PRO:HB3	9:X:89:PHE:HA	1.93	0.50
1:1:109:DG:H4'	1:1:110:DC:C2	2.47	0.49
2:2:40:DC:H2'	2:2:40:DC:OP2	2.12	0.49
2:2:46:DT:H72	2:2:47:DT:N1	2.27	0.49
2:2:51:DT:C6	2:2:52:DA:N7	2.80	0.49
3:A:82:GLU:O	3:A:85:LYS:HB2	2.12	0.49
3:A:184:TRP:CD2	3:A:193:LEU:HD12	2.27	0.49
3:A:252:GLY:C	3:A:254:GLN:N	2.66	0.49
3:A:287:ASP:O	3:A:288:THR:C	2.54	0.49
3:A:594:THR:HG22	3:A:595:ASP:CB	2.42	0.49
3:A:743:VAL:HG21	3:A:748:LEU:HG	1.94	0.49
3:A:770:VAL:HG12	3:A:804:LEU:HB3	1.93	0.49
4:B:91:PHE:HE1	4:B:156:ASP:HB2	1.76	0.49
4:B:164:ARG:C	4:B:166:GLY:N	2.67	0.49
4:B:197:THR:O	4:B:199:ARG:N	2.45	0.49
4:B:510:LEU:HD22	4:B:877:LEU:O	2.11	0.49
4:B:583:GLN:OE1	4:B:813:ALA:O	2.30	0.49
4:B:614:LYS:C	4:B:616:LYS:N	2.68	0.49
4:B:785:VAL:C	4:B:786:GLU:OE1	2.56	0.49
4:B:853:THR:N	4:B:875:GLN:O	2.44	0.49
4:B:1223:ALA:O	4:B:1224:ALA:C	2.53	0.49
5:C:99:LEU:CD1	5:C:101:VAL:HG23	2.40	0.49
5:D:94:ALA:O	5:D:96:ILE:HD12	2.12	0.49
6:E:188:ILE:CD1	6:E:300:ARG:CZ	2.85	0.49
6:E:502:THR:C	6:E:504:ARG:N	2.66	0.49
6:E:540:ASP:C	6:E:540:ASP:OD1	2.45	0.49
9:X:69:LEU:HD11	9:X:73:SER:CB	2.40	0.49
9:Y:77:VAL:O	9:Y:78:LEU:HD23	2.12	0.49
9:Y:161:GLY:N	9:Y:170:ILE:HD13	2.27	0.49
1:1:99:DT:H1'	8:G:212:TRP:CZ2	2.46	0.49
2:2:57:DT:H2"	2:2:58:DA:C5	2.47	0.49
3:A:76:GLU:HB3	3:A:77:PRO:HD2	1.93	0.49
3:A:214:ARG:HG3	3:A:306:ASN:ND2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:227:GLY:HA2	3:A:229:PHE:CZ	2.47	0.49
3:A:546:GLU:OE2	3:A:547:HIS:CD2	2.63	0.49
3:A:579:GLU:C	3:A:581:GLN:N	2.64	0.49
3:A:606:ILE:HG22	3:A:608:VAL:CG1	2.42	0.49
3:A:729:THR:C	3:A:732:GLY:H	2.17	0.49
3:A:788:LEU:HG	8:G:385:LEU:HD22	1.94	0.49
3:A:886:PRO:HG3	4:B:49:VAL:O	2.12	0.49
3:A:1076:GLU:O	3:A:1079:SER:OG	2.28	0.49
4:B:16:LEU:HD23	4:B:17:ILE:CA	2.43	0.49
4:B:70:GLU:O	4:B:73:ILE:N	2.44	0.49
4:B:77:GLU:CA	4:B:80:TYR:HB3	2.31	0.49
4:B:93:LYS:HZ1	4:B:375:ASP:C	2.19	0.49
4:B:170:THR:O	4:B:173:ILE:HB	2.11	0.49
4:B:189:ARG:NH2	4:B:330:LEU:N	2.60	0.49
4:B:406:GLN:HG3	4:B:407:GLY:N	2.27	0.49
4:B:482:ILE:CG1	4:B:483:LEU:N	2.75	0.49
4:B:920:ASP:O	4:B:940:ILE:HG22	2.11	0.49
4:B:932:ILE:CG2	4:B:933:PHE:H	2.24	0.49
5:D:70:GLY:O	5:D:130:ILE:HG13	2.12	0.49
6:E:47:TYR:CD1	6:E:48:ARG:N	2.81	0.49
6:E:121:ILE:HB	6:E:122:PRO:HD3	1.94	0.49
6:E:370:ILE:CG2	6:E:457:HIS:ND1	2.74	0.49
6:E:438:ARG:HG3	6:E:439:LEU:N	2.27	0.49
6:E:583:SER:C	6:E:585:THR:N	2.67	0.49
8:G:285:SER:C	8:G:287:GLU:N	2.66	0.49
9:X:116:PRO:O	9:X:117:GLU:C	2.55	0.49
9:Y:55:SER:CA	9:Y:65:THR:HG22	2.42	0.49
9:Y:137:ILE:CA	9:Y:140:LEU:HG	2.41	0.49
1:1:109:DG:H3'	1:1:109:DG:OP2	2.12	0.49
1:1:113:DT:H71	3:A:414:ARG:HH11	1.76	0.49
1:1:114:DC:H1'	1:1:115:DA:C5	2.47	0.49
2:2:40:DC:H1'	2:2:41:DC:H5'	1.95	0.49
3:A:70:HIS:ND1	3:A:71:ASN:OD1	2.45	0.49
3:A:161:TYR:HE2	3:A:308:GLU:HG3	1.76	0.49
3:A:280:LYS:HE2	3:A:303:TYR:HE2	1.77	0.49
3:A:297:ILE:O	3:A:300:ALA:HB3	2.12	0.49
3:A:304:LEU:HA	3:A:307:LEU:HD21	1.92	0.49
3:A:480:MET:O	3:A:481:THR:C	2.56	0.49
3:A:723:GLU:HA	3:A:836:VAL:O	2.12	0.49
4:B:97:THR:N	4:B:422:GLN:CD	2.70	0.49
4:B:250:HIS:HB2	4:B:254:LYS:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:352:LYS:C	4:B:353:MET:HG3	2.36	0.49
4:B:384:ILE:CG2	4:B:394:SER:CB	2.88	0.49
4:B:385:MET:HG3	4:B:406:GLN:O	2.11	0.49
4:B:646:LEU:H	4:B:662:LYS:HG2	1.76	0.49
4:B:646:LEU:CG	4:B:662:LYS:N	2.76	0.49
4:B:964:VAL:HG12	4:B:965:THR:N	2.26	0.49
4:B:1237:GLU:O	4:B:1239:VAL:C	2.54	0.49
5:D:202:GLY:C	5:D:204:ILE:H	2.20	0.49
5:D:202:GLY:O	5:D:204:ILE:N	2.46	0.49
6:E:76:TYR:CG	6:E:81:HIS:CG	3.00	0.49
6:E:138:GLN:NE2	6:E:138:GLN:HA	2.12	0.49
6:E:162:LEU:O	6:E:164:GLU:N	2.43	0.49
6:E:498:LEU:HB2	6:E:504:ARG:O	2.12	0.49
6:E:529:LYS:HB2	6:E:551:ASP:CG	2.37	0.49
8:G:117:ARG:HG3	8:G:117:ARG:NH1	2.27	0.49
9:Y:35:PHE:CE1	9:Y:88:ARG:CB	2.95	0.49
9:Y:212:VAL:HG12	9:Y:214:LYS:H	1.78	0.49
1:1:115:DA:C2	2:2:10:DG:C2	3.00	0.49
2:2:49:DT:C4'	2:2:50:DG:H5'	2.42	0.49
3:A:41:PHE:O	3:A:44:GLU:N	2.45	0.49
3:A:220:GLN:HB2	3:A:221:LYS:HZ3	1.77	0.49
3:A:296:ASP:O	3:A:299:ALA:HB3	2.11	0.49
3:A:349:GLU:CD	3:A:350:ARG:N	2.71	0.49
3:A:364:LEU:N	3:A:364:LEU:CD2	2.71	0.49
3:A:606:ILE:O	3:A:609:ARG:HG2	2.11	0.49
3:A:609:ARG:O	3:A:616:THR:HB	2.12	0.49
3:A:617:ALA:CA	3:A:620:LYS:H	2.25	0.49
3:A:685:ASN:OD1	3:A:685:ASN:N	2.30	0.49
3:A:804:LEU:HD12	3:A:805:ARG:H	1.77	0.49
4:B:72:GLU:HG3	4:B:97:THR:HG21	1.94	0.49
4:B:100:GLY:CA	4:B:424:LEU:HD11	2.37	0.49
4:B:220:ILE:N	4:B:281:VAL:HG13	2.27	0.49
4:B:326:PRO:O	4:B:329:GLN:HG2	2.12	0.49
4:B:378:PHE:CE1	4:B:413:VAL:HB	2.47	0.49
4:B:562:TYR:O	4:B:574:LEU:HD11	2.12	0.49
4:B:583:GLN:HB2	4:B:814:ALA:HA	1.93	0.49
4:B:844:ILE:O	4:B:844:ILE:CG2	2.60	0.49
4:B:885:ARG:N	4:B:898:LEU:HB2	2.23	0.49
5:C:72:ARG:HB3	5:C:129:THR:HB	1.94	0.49
5:C:202:GLY:O	5:C:204:ILE:N	2.46	0.49
5:D:50:GLY:O	5:D:144:ARG:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:118:VAL:CG1	5:D:142:ILE:CG2	2.43	0.49
6:E:124:TYR:O	6:E:125:ILE:C	2.56	0.49
6:E:249:ILE:HG22	6:E:250:PRO:O	2.12	0.49
6:E:261:GLN:HE21	6:E:262:LEU:C	2.19	0.49
8:G:321:ASP:O	8:G:322:LEU:C	2.55	0.49
8:G:383:SER:HA	8:G:386:LYS:HB2	1.93	0.49
9:X:46:PHE:CD2	9:X:74:VAL:HG12	2.47	0.49
9:X:47:LEU:HD23	9:X:69:LEU:C	2.38	0.49
9:X:162:VAL:O	9:X:169:THR:OG1	2.31	0.49
9:X:169:THR:HA	9:X:212:VAL:CB	2.38	0.49
9:Y:216:VAL:HG12	9:Y:220:ARG:O	2.12	0.49
2:2:42:DT:N3	2:2:43:DG:C6	2.81	0.49
2:2:60:DC:H3'	2:2:60:DC:OP2	2.12	0.49
2:2:63:DC:N4	9:Y:187:ARG:HD2	2.17	0.49
3:A:48:GLU:O	3:A:49:GLU:C	2.49	0.49
3:A:57:THR:HG23	3:A:64:GLU:HA	1.94	0.49
3:A:184:TRP:C	3:A:197:VAL:HG23	2.38	0.49
3:A:624:ASN:HB2	3:A:627:LEU:HD22	1.94	0.49
3:A:650:CYS:HB3	3:A:717:ILE:HG21	1.94	0.49
3:A:703:LEU:O	3:A:704:ILE:CD1	2.61	0.49
3:A:736:ILE:HD13	3:A:772:LYS:CG	2.42	0.49
3:A:809:GLY:C	3:A:810:GLU:OE1	2.55	0.49
3:A:873:TYR:CZ	3:A:960:TYR:HB2	2.48	0.49
3:A:999:SER:C	8:G:303:GLU:HA	2.37	0.49
4:B:79:ARG:HD3	4:B:85:ILE:HG23	1.94	0.49
4:B:103:GLU:HG3	4:B:411:TYR:HB3	1.92	0.49
4:B:176:SER:O	4:B:178:GLY:N	2.45	0.49
4:B:404:VAL:HG12	4:B:405:THR:H	1.76	0.49
4:B:520:GLY:HA2	4:B:764:ARG:HH21	1.77	0.49
4:B:704:ASP:O	4:B:706:THR:N	2.45	0.49
4:B:858:GLU:HG3	4:B:869:SER:OG	2.13	0.49
4:B:900:LEU:CD2	4:B:904:ASP:HB3	2.42	0.49
4:B:943:VAL:HG23	4:B:964:VAL:HG22	1.93	0.49
4:B:974:VAL:HG12	4:B:975:SER:N	2.26	0.49
4:B:1014:ILE:O	4:B:1016:GLU:N	2.45	0.49
5:C:82:MET:O	5:C:83:LYS:C	2.56	0.49
5:C:97:GLY:O	5:C:139:GLU:HB2	2.13	0.49
5:C:168:SER:HG	5:C:169:ILE:H	1.54	0.49
5:D:182:GLU:OE2	5:D:183:VAL:O	2.30	0.49
6:E:20:GLU:CD	6:E:20:GLU:H	2.20	0.49
6:E:67:LYS:C	6:E:68:ASP:OD1	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:543:MET:C	6:E:545:PHE:N	2.64	0.49
6:E:581:ASP:C	6:E:583:SER:N	2.68	0.49
8:G:120:LEU:HB3	8:G:128:PRO:HD3	1.93	0.49
8:G:224:ASP:O	8:G:225:GLN:HG2	2.12	0.49
9:Y:45:TYR:HB2	9:Y:75:PHE:HB2	1.93	0.49
9:Y:47:LEU:HA	9:Y:100:LEU:CD1	2.42	0.49
9:Y:209:LYS:CA	9:Y:210:ILE:HD12	2.42	0.49
1:1:100:DA:H1'	8:G:204:TYR:CE2	2.47	0.49
2:2:9:DC:C5	2:2:10:DG:O6	2.65	0.49
2:2:30:DG:C2	2:2:31:DA:C1'	2.89	0.49
3:A:551:ASN:OD1	3:A:551:ASN:C	2.44	0.49
3:A:595:ASP:C	3:A:618:SER:OG	2.55	0.49
3:A:887:LEU:HA	4:B:51:ILE:HG21	1.93	0.49
3:A:943:THR:HG23	3:A:945:LYS:HG2	1.94	0.49
3:A:974:ILE:HG22	3:A:975:GLY:N	2.21	0.49
4:B:2:ILE:HD12	6:E:563:ASP:O	2.12	0.49
4:B:31:VAL:O	4:B:32:MET:C	2.51	0.49
4:B:59:PRO:HB2	4:B:108:GLU:CD	2.37	0.49
4:B:350:ARG:O	4:B:350:ARG:HG2	2.11	0.49
4:B:637:HIS:N	4:B:638:GLU:OE1	2.45	0.49
4:B:640:ASN:HA	4:B:681:LEU:O	2.13	0.49
4:B:910:ILE:O	4:B:962:TYR:HB3	2.13	0.49
4:B:937:SER:O	4:B:937:SER:OG	2.29	0.49
5:C:214:ALA:HB3	5:D:225:LYS:HG3	1.94	0.49
5:D:100:LEU:HD23	5:D:137:GLU:CA	2.36	0.49
5:D:148:TYR:CE1	5:D:170:PHE:O	2.65	0.49
5:D:212:SER:O	5:D:213:ALA:C	2.51	0.49
6:E:206:ALA:O	6:E:207:GLU:CG	2.61	0.49
6:E:206:ALA:C	6:E:210:ARG:NE	2.71	0.49
6:E:375:LEU:O	6:E:449:VAL:HB	2.12	0.49
6:E:411:ASN:HA	6:E:415:VAL:HG11	1.94	0.49
6:E:418:VAL:O	6:E:419:LEU:O	2.30	0.49
6:E:492:LEU:C	6:E:494:SER:N	2.69	0.49
8:G:87:GLN:CB	8:G:91:ARG:NH2	2.75	0.49
8:G:117:ARG:HG3	8:G:117:ARG:HH11	1.78	0.49
8:G:129:ARG:N	8:G:129:ARG:HD2	2.25	0.49
8:G:173:TYR:HA	8:G:176:ARG:CG	2.42	0.49
9:X:88:ARG:HH22	9:X:129:ARG:HH12	1.60	0.49
9:X:93:VAL:HG12	9:X:95:PHE:N	2.28	0.49
1:1:72:DT:H6	1:1:72:DT:H5"	1.76	0.49
1:1:93:DT:C2	1:1:94:DT:C6	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:94:DT:C5'	6:E:47:TYR:HH	2.24	0.49
1:1:97:DT:O5'	1:1:97:DT:C2'	2.61	0.49
1:1:105:DG:C8	1:1:105:DG:C5'	2.95	0.49
3:A:40:TRP:CD2	3:A:41:PHE:N	2.81	0.49
3:A:51:ASN:HB3	3:A:69:GLY:HA3	1.94	0.49
3:A:149:TYR:HD1	3:A:163:ALA:HA	1.76	0.49
4:B:72:GLU:HG2	4:B:418:VAL:HG12	1.95	0.49
4:B:77:GLU:OE2	4:B:81:GLN:HB3	2.13	0.49
4:B:131:ARG:O	4:B:132:GLY:C	2.55	0.49
4:B:189:ARG:HH12	4:B:332:MET:N	2.10	0.49
4:B:226:THR:HG23	4:B:231:THR:OG1	2.13	0.49
4:B:238:ARG:HG2	4:B:238:ARG:O	2.10	0.49
4:B:315:VAL:HA	4:B:318:ILE:HD12	1.95	0.49
4:B:331:THR:O	4:B:331:THR:OG1	2.20	0.49
4:B:510:LEU:HB2	4:B:876:ILE:HG13	1.95	0.49
4:B:519:HIS:C	4:B:865:ILE:HG22	2.32	0.49
4:B:542:ALA:C	4:B:833:VAL:HG12	2.38	0.49
4:B:704:ASP:C	4:B:706:THR:N	2.70	0.49
4:B:725:ILE:HG13	4:B:726:GLN:H	1.78	0.49
4:B:1017:LEU:C	4:B:1020:ALA:H	2.20	0.49
4:B:1107:TYR:O	4:B:1108:ALA:C	2.54	0.49
5:C:80:MET:C	5:C:82:MET:N	2.67	0.49
5:C:201:ASN:OD1	5:C:201:ASN:N	2.43	0.49
5:D:108:THR:H	5:D:111:HIS:CD2	2.31	0.49
5:D:179:SER:HG	5:D:180:VAL:H	1.52	0.49
6:E:23:ARG:NH1	6:E:107:LYS:HD2	2.28	0.49
6:E:282:ARG:NH1	6:E:305:MET:SD	2.86	0.49
8:G:93:ARG:HD2	8:G:93:ARG:O	2.12	0.49
8:G:110:LEU:HB2	8:G:151:GLY:CA	2.35	0.49
8:G:130:ASP:OD1	8:G:133:TRP:HB3	2.13	0.49
8:G:311:ASP:O	8:G:312:GLN:C	2.56	0.49
9:Y:209:LYS:C	9:Y:210:ILE:HD12	2.38	0.49
1:1:104:DT:C5	8:G:165:LEU:HD22	2.47	0.49
2:2:44:DA:C2'	2:2:45:DA:C8	2.96	0.49
3:A:168:ASN:OD1	3:A:168:ASN:C	2.54	0.49
3:A:233:GLU:O	3:A:250:VAL:HG23	2.12	0.49
3:A:254:GLN:C	3:A:256:LEU:N	2.69	0.49
3:A:303:TYR:O	3:A:304:LEU:C	2.53	0.49
3:A:542:ILE:HG22	3:A:856:HIS:HE1	1.63	0.49
3:A:571:ARG:HD3	3:A:913:ARG:NE	2.27	0.49
3:A:623:ASP:CB	3:A:629:SER:HB2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:628:THR:CG2	3:A:631:LYS:HG2	2.43	0.49
4:B:10:LYS:HZ2	4:B:14:ARG:NH2	1.96	0.49
4:B:49:VAL:O	4:B:49:VAL:CG1	2.56	0.49
4:B:114:LYS:HD2	4:B:350:ARG:HB3	1.93	0.49
4:B:226:THR:OG1	4:B:231:THR:HG23	2.13	0.49
4:B:542:ALA:N	4:B:833:VAL:HA	2.27	0.49
4:B:550:THR:HG22	4:B:551:VAL:N	2.27	0.49
4:B:624:VAL:HG12	4:B:625:GLN:HB3	1.93	0.49
4:B:839:VAL:HG12	4:B:840:LEU:N	2.28	0.49
4:B:916:VAL:HG12	4:B:917:LYS:N	2.21	0.49
4:B:1088:SER:HB2	4:B:1093:ILE:CG2	2.41	0.49
5:C:44:LEU:C	5:C:46:SER:N	2.57	0.49
5:C:82:MET:O	5:C:85:VAL:N	2.39	0.49
5:C:145:GLY:HA3	5:C:149:ARG:NH1	2.25	0.49
5:C:148:TYR:H	5:C:170:PHE:N	2.10	0.49
6:E:245:VAL:HG22	6:E:246:MET:H	1.77	0.49
6:E:412:ASP:O	6:E:413:PRO:C	2.56	0.49
6:E:516:GLY:O	6:E:518:TYR:N	2.45	0.49
9:X:66:VAL:O	9:X:68:LEU:HG	2.13	0.49
9:X:129:ARG:O	9:X:132:GLN:HB2	2.13	0.49
9:Y:78:LEU:CG	9:Y:88:ARG:CD	2.82	0.49
1:1:61:DT:H2”	1:1:62:DT:C5	2.48	0.49
1:1:67:DC:H3’	1:1:68:DT:C6	2.48	0.49
1:1:74:DT:H1’	1:1:75:DA:O4’	2.13	0.49
3:A:109:ILE:HD12	3:A:111:GLU:H	1.78	0.49
3:A:261:PHE:C	3:A:262:PHE:CD1	2.91	0.49
3:A:492:PRO:O	3:A:495:ILE:HD11	2.13	0.49
3:A:495:ILE:HG22	3:A:496:PRO:O	2.12	0.49
3:A:703:LEU:O	3:A:704:ILE:HG12	2.13	0.49
3:A:721:LYS:O	3:A:722:TYR:CE1	2.63	0.49
3:A:743:VAL:HB	3:A:748:LEU:HB2	1.95	0.49
3:A:932:VAL:CG1	3:A:933:HIS:N	2.75	0.49
3:A:993:ARG:NH2	3:A:996:GLY:C	2.71	0.49
4:B:58:VAL:HG23	4:B:164:ARG:HH11	1.77	0.49
4:B:61:SER:H	4:B:108:GLU:CD	2.19	0.49
4:B:96:ASP:HB2	4:B:422:GLN:CD	2.36	0.49
4:B:195:TYR:CZ	4:B:199:ARG:NH1	2.81	0.49
4:B:222:VAL:O	4:B:222:VAL:HG23	2.11	0.49
4:B:327:GLY:O	4:B:328:THR:C	2.54	0.49
4:B:409:THR:HG23	4:B:427:VAL:HG21	1.94	0.49
4:B:416:GLN:OE1	4:B:417:GLN:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:535:ARG:O	4:B:839:VAL:HG22	2.12	0.49
4:B:539:ILE:H	4:B:865:ILE:HD12	1.77	0.49
4:B:913:LYS:CA	4:B:915:LYS:HG2	2.42	0.49
4:B:1068:ASN:O	4:B:1069:LEU:HD23	2.13	0.49
4:B:1138:ASP:HA	4:B:1141:ILE:HD13	1.95	0.49
5:C:115:PRO:O	5:C:118:VAL:HG22	2.12	0.49
5:D:13:THR:CG2	5:D:206:PRO:CD	2.78	0.49
5:D:19:HIS:O	5:D:20:TYR:O	2.30	0.49
5:D:82:MET:O	5:D:83:LYS:C	2.56	0.49
5:D:147:GLY:C	5:D:148:TYR:CD1	2.89	0.49
6:E:225:ILE:O	6:E:226:LYS:C	2.53	0.49
6:E:304:ARG:O	6:E:305:MET:C	2.45	0.49
6:E:450:GLU:N	6:E:450:GLU:CD	2.58	0.49
6:E:512:ASP:CG	6:E:513:MET:N	2.63	0.49
6:E:571:THR:HG1	6:E:572:GLU:H	1.60	0.49
6:E:587:LEU:O	6:E:588:TYR:CG	2.66	0.49
8:G:256:LYS:HG3	8:G:256:LYS:O	2.12	0.49
8:G:284:ILE:O	8:G:285:SER:C	2.53	0.49
8:G:333:GLU:O	8:G:336:VAL:HG12	2.13	0.49
8:G:351:LEU:O	8:G:352:GLU:O	2.30	0.49
9:X:47:LEU:CA	9:X:100:LEU:HA	2.40	0.49
9:X:70:ARG:HD2	9:X:70:ARG:N	2.28	0.49
9:X:78:LEU:C	9:X:80:LEU:H	2.20	0.49
9:X:132:GLN:HB3	9:X:136:MET:HE2	1.95	0.49
9:Y:162:VAL:O	9:Y:169:THR:OG1	2.31	0.49
2:2:34:DA:H2'	2:2:35:DA:N9	2.26	0.49
2:2:60:DC:C2	2:2:61:DT:C4	3.00	0.49
3:A:218:TYR:C	3:A:219:PHE:CG	2.86	0.49
3:A:221:LYS:HB3	3:A:225:LYS:HB3	1.94	0.49
3:A:387:MET:HB3	3:A:387:MET:HE3	1.27	0.49
3:A:388:ASP:HA	3:A:646:ASN:HB2	1.95	0.49
3:A:552:ARG:O	3:A:553:ALA:C	2.50	0.49
3:A:634:GLU:C	3:A:636:ARG:H	2.18	0.49
3:A:736:ILE:HD13	3:A:772:LYS:HD3	1.89	0.49
3:A:1006:LEU:HD11	8:G:301:PHE:HA	1.95	0.49
4:B:21:PHE:C	4:B:21:PHE:CD1	2.83	0.49
4:B:455:PHE:HE2	4:B:982:ILE:O	1.96	0.49
4:B:499:LYS:HB2	4:B:889:LYS:NZ	2.20	0.49
4:B:657:GLY:CA	4:B:668:ASN:HD21	2.25	0.49
4:B:796:VAL:O	4:B:797:LEU:HD23	2.12	0.49
4:B:882:GLY:H	4:B:899:VAL:CG2	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:902:HIS:HB2	4:B:907:THR:OG1	2.13	0.49
4:B:916:VAL:CG1	4:B:917:LYS:H	2.22	0.49
4:B:1112:HIS:HA	4:B:1115:GLN:NE2	2.28	0.49
4:B:1207:PHE:CZ	6:E:14:ILE:HB	2.47	0.49
5:C:145:GLY:HA2	5:C:149:ARG:HH22	1.78	0.49
5:C:191:LYS:HA	5:C:192:ASP:OD2	2.13	0.49
5:D:165:GLN:OE1	5:D:165:GLN:CA	2.61	0.49
6:E:112:VAL:HG22	6:E:307:GLN:HA	1.95	0.49
6:E:430:LEU:HG	6:E:444:PHE:CD1	2.48	0.49
6:E:515:LEU:O	6:E:516:GLY:O	2.30	0.49
8:G:117:ARG:HB2	8:G:129:ARG:HH21	1.78	0.49
9:X:25:VAL:HG22	9:X:48:LEU:HD22	1.94	0.49
9:X:57:VAL:CG2	9:X:58:TYR:H	2.25	0.49
9:X:188:VAL:HG22	9:X:192:ARG:CZ	2.42	0.49
9:Y:177:GLN:HA	9:Y:180:ALA:HB3	1.95	0.49
1:1:80:DA:C2'	1:1:81:DT:C6	2.96	0.48
1:1:80:DA:C4	1:1:81:DT:C7	2.96	0.48
1:1:87:DA:C2	2:2:39:DT:O2	2.65	0.48
1:1:107:DG:N1	1:1:108:DA:N1	2.60	0.48
1:1:109:DG:C4'	1:1:110:DC:C2	2.95	0.48
2:2:33:DA:C2'	2:2:34:DA:C8	2.90	0.48
3:A:129:ILE:O	3:A:130:ILE:HG22	2.13	0.48
3:A:154:ASP:OD2	3:A:158:ARG:HG3	2.13	0.48
3:A:215:HIS:ND1	3:A:309:TYR:CZ	2.80	0.48
3:A:256:LEU:HA	3:A:256:LEU:HD12	1.53	0.48
3:A:520:THR:HG1	3:A:522:GLU:CD	2.12	0.48
3:A:557:SER:O	3:A:558:ASN:C	2.51	0.48
3:A:586:SER:OG	3:A:587:GLY:C	2.55	0.48
3:A:596:GLY:HA2	3:A:662:ARG:HH22	1.76	0.48
3:A:617:ALA:CB	3:A:620:LYS:HG3	2.43	0.48
3:A:797:ARG:NH2	3:A:798:ASP:CG	2.70	0.48
3:A:820:PHE:HA	3:A:824:GLN:O	2.13	0.48
4:B:89:GLU:HA	4:B:370:THR:HA	1.94	0.48
4:B:310:ASP:C	4:B:311:LEU:HG	2.38	0.48
4:B:564:ILE:O	4:B:564:ILE:HG22	2.12	0.48
4:B:765:SER:HB2	4:B:800:GLU:H	1.78	0.48
4:B:815:ASP:O	4:B:816:ILE:HG23	2.13	0.48
4:B:971:PRO:O	4:B:972:TYR:CD1	2.66	0.48
4:B:1104:ASP:HB3	4:B:1108:ALA:HB3	1.95	0.48
4:B:1124:GLU:O	4:B:1125:VAL:C	2.55	0.48
4:B:1141:ILE:HD12	4:B:1141:ILE:N	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1177:ASN:ND2	4:B:1190:TYR:CZ	2.79	0.48
5:C:196:LEU:HD23	5:C:197:GLU:CA	2.43	0.48
5:C:202:GLY:C	5:C:204:ILE:H	2.20	0.48
5:D:63:HIS:CA	5:D:164:LEU:HD11	2.37	0.48
5:D:191:LYS:HA	5:D:192:ASP:OD2	2.13	0.48
6:E:102:ARG:NH1	6:E:102:ARG:HG3	2.27	0.48
6:E:124:TYR:HA	6:E:127:ILE:HB	1.95	0.48
6:E:194:LEU:HD13	6:E:245:VAL:HG11	1.94	0.48
6:E:259:MET:C	6:E:260:VAL:HG23	2.38	0.48
6:E:400:ASN:O	6:E:403:ALA:HB3	2.13	0.48
6:E:450:GLU:O	6:E:451:GLY:O	2.31	0.48
8:G:120:LEU:HB3	8:G:128:PRO:CD	2.42	0.48
8:G:326:LEU:HD12	8:G:326:LEU:C	2.38	0.48
9:Y:30:ARG:HB2	9:Y:97:PRO:CD	2.43	0.48
9:Y:74:VAL:HG21	9:Y:122:MET:HE1	1.94	0.48
9:Y:144:ASP:CG	9:Y:146:GLY:H	2.21	0.48
2:2:3:DT:P	2:2:3:DT:C6	3.06	0.48
2:2:42:DT:C4	2:2:43:DG:C6	3.02	0.48
2:2:49:DT:O5'	9:X:176:HIS:NE2	2.33	0.48
2:2:58:DA:C2	2:2:59:DG:C4	3.01	0.48
3:A:67:PHE:HB3	3:A:99:THR:HA	1.94	0.48
3:A:93:VAL:HB	3:A:121:LEU:CD2	2.43	0.48
3:A:161:TYR:OH	3:A:307:LEU:O	2.19	0.48
3:A:161:TYR:OH	3:A:308:GLU:HA	2.13	0.48
3:A:161:TYR:CZ	3:A:308:GLU:HA	2.44	0.48
3:A:261:PHE:C	3:A:262:PHE:CG	2.90	0.48
3:A:412:ARG:CZ	3:A:412:ARG:HB2	2.41	0.48
3:A:810:GLU:N	3:A:810:GLU:CD	2.70	0.48
3:A:850:ASP:O	3:A:852:MET:HB2	2.13	0.48
3:A:1058:GLY:C	7:F:43:ARG:HH21	2.18	0.48
4:B:91:PHE:CZ	4:B:156:ASP:HB2	2.48	0.48
4:B:417:GLN:C	4:B:419:LYS:N	2.66	0.48
4:B:440:LYS:CA	4:B:1000:GLU:HA	2.38	0.48
4:B:645:LEU:HD12	4:B:662:LYS:O	2.14	0.48
4:B:647:LEU:HG	4:B:647:LEU:O	2.13	0.48
4:B:668:ASN:OD1	4:B:668:ASN:O	2.31	0.48
4:B:1240:ILE:HG22	4:B:1241:ILE:HB	1.94	0.48
5:C:159:THR:C	5:C:163:PHE:HB2	2.37	0.48
5:D:80:MET:C	5:D:82:MET:H	2.21	0.48
5:D:126:TYR:CE1	5:D:128:ALA:N	2.80	0.48
5:D:196:LEU:CD2	5:D:197:GLU:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:104:GLY:O	6:E:251:VAL:CB	2.57	0.48
6:E:224:LEU:C	6:E:226:LYS:N	2.69	0.48
6:E:228:LEU:O	6:E:230:VAL:N	2.46	0.48
6:E:280:ILE:O	6:E:283:ASN:N	2.46	0.48
6:E:286:LEU:HA	6:E:289:LEU:HG	1.94	0.48
6:E:416:TRP:HD1	6:E:417:ASP:OD1	1.96	0.48
6:E:449:VAL:C	6:E:450:GLU:OE2	2.56	0.48
9:Y:70:ARG:N	9:Y:70:ARG:HD2	2.28	0.48
1:1:72:DT:H2"	1:1:73:DA:C5'	2.43	0.48
3:A:61:GLY:O	3:A:104:LYS:HG3	2.13	0.48
3:A:92:ALA:HA	3:A:120:PRO:CA	2.41	0.48
3:A:185:VAL:O	3:A:185:VAL:HG12	2.13	0.48
3:A:277:LEU:O	3:A:281:LEU:N	2.38	0.48
3:A:513:ARG:C	3:A:514:GLN:NE2	2.72	0.48
3:A:633:GLN:O	3:A:635:ILE:HG13	2.14	0.48
3:A:846:ILE:HD12	3:A:846:ILE:HA	1.39	0.48
3:A:968:PHE:CD2	4:B:48:GLY:HA3	2.48	0.48
3:A:1091:THR:C	3:A:1093:ALA:N	2.67	0.48
4:B:63:ARG:O	4:B:66:LEU:N	2.46	0.48
4:B:105:LEU:HD12	4:B:105:LEU:HA	1.56	0.48
4:B:288:CYS:CB	4:B:298:CYS:SG	3.01	0.48
4:B:303:LEU:HB3	6:E:502:THR:CA	2.43	0.48
4:B:417:GLN:HE22	4:B:421:GLY:HA2	1.78	0.48
4:B:646:LEU:HG	4:B:661:VAL:CA	2.39	0.48
4:B:688:PRO:CG	4:B:739:ARG:HD2	2.43	0.48
4:B:743:GLU:C	4:B:744:PHE:CD1	2.92	0.48
4:B:885:ARG:CB	4:B:898:LEU:HD13	2.38	0.48
4:B:900:LEU:HD13	4:B:905:MET:HB2	1.94	0.48
4:B:901:ARG:H	4:B:904:ASP:HB3	1.78	0.48
4:B:923:VAL:HG12	4:B:971:PRO:HG2	1.95	0.48
5:C:18:ASN:OD1	5:C:174:ARG:HD2	2.14	0.48
5:C:92:SER:HB3	5:C:144:ARG:HE	1.76	0.48
5:D:20:TYR:C	5:D:21:SER:OG	2.56	0.48
5:D:44:LEU:HA	5:D:44:LEU:HD23	1.24	0.48
5:D:97:GLY:O	5:D:139:GLU:HB2	2.13	0.48
5:D:186:ASP:HA	5:D:189:ILE:C	2.38	0.48
6:E:372:GLN:C	6:E:373:CYS:SG	2.96	0.48
8:G:320:GLU:HA	8:G:323:GLU:CG	2.42	0.48
8:G:354:ILE:HA	8:G:357:ILE:HD12	1.95	0.48
9:X:37:PRO:HA	9:X:88:ARG:HB3	1.94	0.48
9:X:56:ARG:NH1	9:X:90:TYR:HD2	2.10	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:150:VAL:HA	9:X:153:LEU:HB2	1.95	0.48
9:X:161:GLY:N	9:X:170:ILE:HD13	2.28	0.48
9:X:162:VAL:HG22	9:X:171:ASP:N	2.27	0.48
9:Y:55:SER:O	9:Y:91:HIS:O	2.31	0.48
2:2:51:DT:OP2	2:2:51:DT:H3'	2.13	0.48
3:A:130:ILE:O	3:A:131:ASN:C	2.56	0.48
3:A:159:ARG:HH12	3:A:161:TYR:HE1	1.60	0.48
3:A:217:GLU:C	3:A:218:TYR:CD1	2.92	0.48
3:A:552:ARG:HG2	3:A:894:ASN:HB3	1.95	0.48
3:A:889:VAL:HG23	3:A:893:MET:C	2.38	0.48
3:A:956:LYS:O	3:A:957:ILE:HG13	2.13	0.48
3:A:1055:ILE:O	3:A:1056:VAL:C	2.54	0.48
4:B:77:GLU:O	4:B:80:TYR:N	2.46	0.48
4:B:103:GLU:HB3	4:B:354:ASP:CB	2.40	0.48
4:B:105:LEU:C	4:B:107:ASP:N	2.70	0.48
4:B:248:VAL:HG11	4:B:272:ILE:HD12	1.96	0.48
4:B:538:GLU:HG2	4:B:538:GLU:O	2.13	0.48
4:B:570:GLN:OE1	4:B:753:PRO:HD3	2.13	0.48
4:B:680:ILE:HG21	8:G:101:ILE:HG21	1.94	0.48
4:B:682:ARG:HG3	4:B:683:GLU:CG	2.39	0.48
4:B:687:LYS:CD	4:B:739:ARG:HH11	2.27	0.48
4:B:726:GLN:CG	4:B:728:VAL:C	2.86	0.48
4:B:829:ARG:O	4:B:830:LEU:HD23	2.14	0.48
4:B:921:LEU:HA	4:B:938:GLY:O	2.13	0.48
4:B:1014:ILE:O	4:B:1017:LEU:HG	2.13	0.48
5:C:165:GLN:OE1	5:C:165:GLN:CA	2.61	0.48
6:E:42:PRO:HA	6:E:57:LEU:CD2	2.43	0.48
6:E:47:TYR:CD1	6:E:48:ARG:HG3	2.46	0.48
6:E:188:ILE:HD13	6:E:300:ARG:HE	1.71	0.48
6:E:335:SER:O	6:E:336:ASP:HB3	2.13	0.48
6:E:533:LYS:O	6:E:556:VAL:HG13	2.11	0.48
6:E:593:VAL:HA	6:E:603:SER:O	2.14	0.48
7:F:50:ALA:O	7:F:51:GLU:C	2.57	0.48
8:G:138:GLN:HG2	8:G:138:GLN:O	2.13	0.48
8:G:214:ILE:O	8:G:216:GLN:N	2.46	0.48
8:G:380:ASN:N	8:G:383:SER:HB2	2.27	0.48
9:X:30:ARG:HG3	9:X:97:PRO:CG	2.43	0.48
9:X:82:THR:N	9:X:86:SER:HB2	2.28	0.48
9:Y:46:PHE:C	9:Y:73:SER:O	2.56	0.48
9:Y:52:VAL:HG21	9:Y:98:VAL:HA	1.95	0.48
9:Y:145:MET:CE	9:Y:189:THR:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:7:DT:C2	2:2:8:DC:N3	2.81	0.48
2:2:9:DC:C5	2:2:10:DG:C6	3.01	0.48
2:2:44:DA:C2	2:2:45:DA:C4	3.02	0.48
2:2:56:DG:C2	2:2:57:DT:C2	3.02	0.48
3:A:54:SER:N	3:A:55:PRO:HD2	2.29	0.48
3:A:169:ARG:NH1	3:A:268:ASP:HB2	2.27	0.48
3:A:520:THR:C	3:A:522:GLU:OE1	2.57	0.48
3:A:566:LEU:H	3:A:569:PRO:HG3	1.77	0.48
3:A:759:ILE:HD12	3:A:815:VAL:O	2.14	0.48
3:A:762:TRP:CD1	3:A:763:VAL:O	2.66	0.48
3:A:778:GLU:CD	3:A:781:GLN:HB3	2.38	0.48
3:A:887:LEU:HD12	3:A:887:LEU:C	2.29	0.48
3:A:993:ARG:HD3	6:E:355:ASP:HB2	1.94	0.48
3:A:1017:PHE:O	6:E:351:GLY:HA2	2.13	0.48
4:B:194:GLY:O	4:B:195:TYR:C	2.54	0.48
4:B:332:MET:HB3	4:B:1010:GLY:HA3	1.95	0.48
4:B:473:THR:CG2	4:B:978:ALA:N	2.63	0.48
4:B:851:GLY:CA	4:B:876:ILE:HB	2.44	0.48
4:B:939:GLN:NE2	4:B:941:VAL:HG23	2.23	0.48
4:B:1033:GLY:N	4:B:1052:ILE:HD12	2.27	0.48
4:B:1168:VAL:HG22	4:B:1169:GLU:H	1.79	0.48
5:C:86:ILE:C	5:C:87:LEU:CG	2.86	0.48
6:E:28:ARG:CZ	6:E:102:ARG:NE	2.76	0.48
6:E:81:HIS:CD2	6:E:84:ILE:HG22	2.47	0.48
6:E:230:VAL:O	6:E:232:ASP:N	2.46	0.48
6:E:261:GLN:NE2	6:E:262:LEU:N	2.61	0.48
6:E:277:ARG:O	6:E:280:ILE:N	2.45	0.48
6:E:496:ASN:OD1	6:E:496:ASN:O	2.31	0.48
6:E:586:VAL:HG22	6:E:587:LEU:N	2.28	0.48
9:X:33:THR:CA	9:X:94:ALA:H	2.25	0.48
9:X:47:LEU:HD13	9:X:52:VAL:HG21	1.83	0.48
9:X:76:GLY:O	9:X:78:LEU:HG	2.13	0.48
9:X:179:ILE:H	9:X:179:ILE:HG13	1.41	0.48
9:Y:36:PHE:CZ	9:Y:91:HIS:CE1	2.97	0.48
9:Y:127:SER:O	9:Y:128:SER:C	2.54	0.48
1:1:82:DT:N3	2:2:44:DA:N1	2.62	0.48
2:2:42:DT:C5	2:2:43:DG:C2	3.01	0.48
3:A:27:LEU:N	3:A:27:LEU:CD2	2.73	0.48
3:A:102:LEU:H	3:A:109:ILE:HA	1.77	0.48
3:A:281:LEU:O	3:A:283:LEU:N	2.47	0.48
3:A:772:LYS:H	3:A:803:SER:HA	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:104:ALA:O	4:B:107:ASP:CG	2.57	0.48
4:B:172:TYR:O	4:B:173:ILE:C	2.51	0.48
4:B:453:VAL:HA	4:B:482:ILE:HD12	1.95	0.48
4:B:764:ARG:N	4:B:806:GLU:OE2	2.45	0.48
4:B:888:GLN:O	4:B:889:LYS:C	2.57	0.48
4:B:943:VAL:HG22	4:B:964:VAL:HG22	1.96	0.48
4:B:1033:GLY:HA3	4:B:1052:ILE:HD12	1.95	0.48
5:C:156:GLU:O	5:C:157:GLU:C	2.57	0.48
5:D:44:LEU:C	5:D:46:SER:H	2.21	0.48
5:D:83:LYS:HZ2	5:D:168:SER:HA	1.76	0.48
5:D:148:TYR:CZ	5:D:170:PHE:O	2.66	0.48
5:D:196:LEU:HD23	5:D:197:GLU:CA	2.43	0.48
6:E:30:LEU:HD11	6:E:32:ASN:HB3	1.95	0.48
6:E:92:GLU:O	6:E:94:THR:HG22	2.13	0.48
6:E:247:THR:O	6:E:247:THR:HG22	2.14	0.48
7:F:35:VAL:O	7:F:35:VAL:HG22	2.11	0.48
8:G:86:LEU:HD12	8:G:89:ILE:HD11	1.96	0.48
8:G:128:PRO:HB2	8:G:134:ALA:C	2.38	0.48
8:G:219:THR:O	8:G:221:ALA:N	2.47	0.48
8:G:232:PRO:HG2	8:G:235:LEU:HB3	1.93	0.48
9:X:169:THR:CB	9:X:211:THR:HA	2.43	0.48
9:X:212:VAL:HG12	9:X:214:LYS:H	1.78	0.48
9:Y:95:PHE:CD2	9:Y:96:THR:N	2.82	0.48
1:1:85:DG:C4	1:1:86:DG:C8	3.01	0.48
1:1:106:DG:C2	1:1:107:DG:N1	2.81	0.48
2:2:51:DT:C2'	2:2:52:DA:C8	2.96	0.48
3:A:30:LEU:O	3:A:400:ARG:NH1	2.46	0.48
3:A:95:MET:O	3:A:115:PHE:CA	2.59	0.48
3:A:268:ASP:OD1	3:A:268:ASP:C	2.54	0.48
3:A:489:ARG:CG	3:A:524:VAL:HA	2.44	0.48
3:A:602:ASP:C	3:A:604:THR:H	2.21	0.48
3:A:618:SER:HA	3:A:621:SER:N	2.28	0.48
3:A:707:ARG:CA	3:A:710:GLN:HB3	2.40	0.48
3:A:764:GLU:OE1	3:A:764:GLU:HA	2.11	0.48
3:A:906:ALA:HB2	3:A:936:LEU:HD21	1.95	0.48
4:B:85:ILE:HG21	4:B:372:HIS:HA	1.95	0.48
4:B:356:THR:OG1	4:B:411:TYR:N	2.36	0.48
4:B:361:ARG:H	4:B:392:GLU:H	1.59	0.48
4:B:370:THR:HG1	4:B:371:ARG:H	1.61	0.48
4:B:452:GLU:O	4:B:453:VAL:C	2.57	0.48
4:B:499:LYS:N	4:B:502:ASP:OD2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:522:VAL:O	4:B:539:ILE:HA	2.13	0.48
4:B:637:HIS:N	4:B:638:GLU:OE2	2.41	0.48
4:B:706:THR:O	4:B:725:ILE:HG22	2.13	0.48
4:B:895:ARG:C	4:B:896:ARG:HH11	2.22	0.48
5:D:195:LEU:N	5:D:195:LEU:CD1	2.74	0.48
6:E:192:ALA:C	6:E:194:LEU:N	2.71	0.48
6:E:257:ARG:NH2	6:E:273:ASN:OD1	2.41	0.48
8:G:120:LEU:CB	8:G:128:PRO:HG3	2.29	0.48
8:G:185:GLN:O	8:G:187:GLY:N	2.47	0.48
9:X:42:GLU:C	9:X:78:LEU:HD12	2.39	0.48
9:X:44:VAL:HG12	9:X:74:VAL:HB	1.95	0.48
9:Y:33:THR:N	9:Y:94:ALA:H	2.11	0.48
9:Y:57:VAL:HB	9:Y:91:HIS:HB3	1.95	0.48
9:Y:90:TYR:HD1	9:Y:90:TYR:HA	1.39	0.48
1:1:65:DA:H1'	1:1:66:DG:O4'	2.14	0.48
1:1:81:DT:H1'	1:1:82:DT:C6	2.49	0.48
1:1:105:DG:N3	8:G:86:LEU:HD21	2.29	0.48
1:1:115:DA:C8	1:1:116:DC:N4	2.81	0.48
2:2:50:DG:OP2	9:X:190:VAL:CG2	2.61	0.48
2:2:57:DT:H2"	2:2:58:DA:C8	2.48	0.48
3:A:242:LEU:HD12	3:A:242:LEU:HA	1.63	0.48
3:A:429:ARG:C	3:A:430:ILE:HG12	2.38	0.48
3:A:470:ARG:HD2	3:A:502:TYR:CZ	2.40	0.48
3:A:605:GLU:HB2	3:A:637:TYR:O	2.14	0.48
3:A:641:LYS:C	3:A:643:GLN:NE2	2.72	0.48
3:A:720:GLU:HG3	3:A:722:TYR:CZ	2.47	0.48
3:A:724:ILE:HG13	3:A:725:GLU:N	2.29	0.48
3:A:1046:GLN:HA	3:A:1049:ASN:ND2	2.28	0.48
4:B:44:ALA:O	4:B:47:ALA:N	2.45	0.48
4:B:66:LEU:O	4:B:69:ALA:N	2.46	0.48
4:B:68:ALA:O	4:B:71:GLU:HG3	2.13	0.48
4:B:86:THR:HG23	4:B:89:GLU:CD	2.38	0.48
4:B:91:PHE:C	4:B:93:LYS:N	2.69	0.48
4:B:134:ILE:O	4:B:137:VAL:N	2.46	0.48
4:B:283:ARG:HG2	4:B:288:CYS:SG	2.53	0.48
4:B:311:LEU:CD1	7:F:27:ASN:HD22	2.08	0.48
4:B:440:LYS:NZ	4:B:1000:GLU:N	2.59	0.48
4:B:526:PRO:HD2	4:B:859:VAL:HG21	1.96	0.48
4:B:550:THR:N	4:B:566:THR:H	2.12	0.48
4:B:581:LYS:CG	4:B:814:ALA:HB3	2.37	0.48
4:B:610:GLU:HB3	4:B:625:GLN:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:678:ASN:HD21	4:B:681:LEU:HA	1.78	0.48
4:B:900:LEU:HD23	4:B:900:LEU:HA	1.53	0.48
4:B:1176:VAL:O	4:B:1179:ALA:HB3	2.14	0.48
5:C:142:ILE:CG2	5:C:143:GLU:N	2.77	0.48
5:C:166:ILE:HG12	5:C:167:ASP:H	1.79	0.48
6:E:141:TYR:CD2	6:E:141:TYR:N	2.79	0.48
6:E:158:TYR:CE2	6:E:159:LYS:HE2	2.49	0.48
6:E:265:GLY:HA2	8:G:278:LYS:CE	2.43	0.48
6:E:359:ARG:C	6:E:360:SER:OG	2.51	0.48
6:E:385:GLN:O	6:E:386:PRO:C	2.46	0.48
6:E:388:VAL:CG1	6:E:389:ILE:N	2.76	0.48
8:G:155:LYS:O	8:G:159:VAL:HG22	2.13	0.48
8:G:233:VAL:HA	8:G:236:TYR:CE1	2.47	0.48
8:G:239:ILE:HA	8:G:242:ILE:HD12	1.95	0.48
8:G:287:GLU:CB	8:G:297:ARG:HB3	2.42	0.48
8:G:378:HIS:ND1	9:X:57:VAL:HG22	2.25	0.48
9:X:169:THR:HG21	9:X:211:THR:HA	1.96	0.48
9:Y:32:LYS:HG2	9:Y:33:THR:H	1.78	0.48
9:Y:74:VAL:HG22	9:Y:75:PHE:O	2.14	0.48
1:1:107:DG:C4	1:1:108:DA:C5	3.01	0.48
2:2:59:DG:C8	2:2:59:DG:O5'	2.61	0.48
3:A:95:MET:HE2	3:A:95:MET:HB3	1.45	0.48
3:A:185:VAL:HG11	3:A:200:LYS:NZ	2.29	0.48
3:A:220:GLN:C	3:A:221:LYS:CD	2.72	0.48
3:A:351:MET:O	3:A:352:THR:C	2.54	0.48
3:A:451:ALA:C	3:A:452:ARG:HG2	2.27	0.48
3:A:537:VAL:HA	3:A:541:MET:HE3	1.94	0.48
3:A:609:ARG:O	3:A:633:GLN:OE1	2.32	0.48
3:A:684:GLN:O	3:A:978:TYR:CD1	2.67	0.48
3:A:821:THR:N	3:A:824:GLN:HB2	2.29	0.48
3:A:850:ASP:O	3:A:851:LYS:O	2.32	0.48
3:A:906:ALA:HB2	3:A:936:LEU:HD23	1.96	0.48
3:A:1040:VAL:HG23	3:A:1041:LYS:N	2.21	0.48
4:B:93:LYS:O	4:B:96:ASP:N	2.47	0.48
4:B:107:ASP:HB3	4:B:354:ASP:CB	2.40	0.48
4:B:134:ILE:C	4:B:137:VAL:HG22	2.39	0.48
4:B:160:LYS:HD2	4:B:160:LYS:N	2.29	0.48
4:B:455:PHE:N	4:B:984:ASP:OD1	2.47	0.48
4:B:538:GLU:CB	4:B:835:LEU:HD11	2.44	0.48
4:B:564:ILE:CD1	4:B:830:LEU:HD11	2.44	0.48
4:B:565:THR:CA	4:B:571:VAL:HA	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:591:LEU:HB3	4:B:793:THR:O	2.14	0.48
4:B:636:THR:HB	4:B:784:SER:HB3	1.95	0.48
4:B:700:VAL:HA	4:B:703:ARG:H	1.77	0.48
4:B:926:THR:O	4:B:933:PHE:HD1	1.97	0.48
5:C:80:MET:C	5:C:82:MET:H	2.21	0.48
6:E:23:ARG:HG2	6:E:105:TYR:CE2	2.49	0.48
6:E:68:ASP:HA	6:E:95:GLU:C	2.38	0.48
6:E:105:TYR:HA	6:E:249:ILE:O	2.14	0.48
6:E:140:VAL:C	6:E:142:PHE:H	2.20	0.48
6:E:301:ASN:C	6:E:301:ASN:OD1	2.48	0.48
6:E:405:LYS:O	6:E:406:LYS:C	2.57	0.48
6:E:499:SER:O	6:E:502:THR:N	2.27	0.48
8:G:200:HIS:N	8:G:201:GLU:OE1	2.47	0.48
8:G:258:THR:OG1	8:G:262:ILE:HG12	2.13	0.48
8:G:260:GLU:O	8:G:263:ALA:HB3	2.13	0.48
9:Y:169:THR:CB	9:Y:211:THR:HA	2.43	0.48
2:2:39:DT:OP2	2:2:39:DT:C6	2.63	0.48
2:2:45:DA:C4	2:2:46:DT:O2	2.66	0.48
2:2:59:DG:C5	2:2:60:DC:C5	3.02	0.48
3:A:62:LYS:HG2	3:A:105:GLU:HB3	1.96	0.48
3:A:151:SER:C	3:A:152:GLU:OE1	2.57	0.48
3:A:185:VAL:CG2	3:A:197:VAL:CA	2.84	0.48
3:A:428:GLY:C	3:A:429:ARG:HG3	2.38	0.48
3:A:600:TYR:CE2	3:A:607:ARG:NE	2.82	0.48
3:A:698:TYR:HD1	6:E:512:ASP:OD2	1.97	0.48
3:A:727:ARG:HD3	3:A:728:GLN:N	2.29	0.48
3:A:739:GLU:OE2	3:A:740:ILE:O	2.31	0.48
3:A:1049:ASN:O	3:A:1051:ALA:N	2.47	0.48
3:A:1053:ASN:O	3:A:1055:ILE:N	2.46	0.48
3:A:1087:HIS:O	3:A:1087:HIS:CD2	2.67	0.48
4:B:5:ASN:C	6:E:612:ARG:HH11	2.22	0.48
4:B:73:ILE:HB	4:B:94:VAL:HG23	1.94	0.48
4:B:87:GLU:O	4:B:91:PHE:HB3	2.13	0.48
4:B:95:ILE:HG13	4:B:146:LEU:HD13	1.96	0.48
4:B:125:MET:HG3	6:E:515:LEU:HD22	1.92	0.48
4:B:266:ASP:O	4:B:268:LEU:N	2.47	0.48
4:B:365:THR:HA	4:B:379:VAL:HG12	1.95	0.48
4:B:367:THR:C	4:B:370:THR:HG1	2.22	0.48
4:B:369:ARG:NH2	4:B:1001:ARG:HA	2.28	0.48
4:B:426:GLU:HG2	4:B:426:GLU:O	2.13	0.48
4:B:439:GLU:HB3	4:B:1067:GLN:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:441:ALA:O	4:B:999:PHE:CD2	2.67	0.48
4:B:516:THR:HG23	4:B:870:VAL:HA	1.96	0.48
4:B:523:VAL:HG21	4:B:866:VAL:CG2	2.32	0.48
4:B:550:THR:H	4:B:566:THR:HA	1.79	0.48
4:B:606:PHE:CE1	4:B:778:ASP:CA	2.97	0.48
4:B:648:VAL:HG11	4:B:661:VAL:CG1	2.27	0.48
4:B:666:CYS:SG	4:B:667:GLN:N	2.86	0.48
4:B:675:THR:CB	4:B:683:GLU:HG3	2.43	0.48
4:B:701:ILE:HA	4:B:704:ASP:OD2	2.14	0.48
4:B:852:SER:O	4:B:874:THR:HG22	2.13	0.48
4:B:922:ILE:HG23	4:B:936:GLU:C	2.39	0.48
4:B:1107:TYR:HH	4:B:1174:GLU:HG2	1.67	0.48
5:C:32:GLN:O	5:C:33:GLY:C	2.57	0.48
5:C:219:ASP:O	5:C:222:ASN:HB3	2.14	0.48
6:E:47:TYR:CG	8:G:232:PRO:HD3	2.48	0.48
6:E:220:LYS:HE2	6:E:223:LYS:HD2	1.90	0.48
6:E:261:GLN:O	6:E:262:LEU:HD12	2.14	0.48
6:E:281:ASN:O	6:E:283:ASN:N	2.47	0.48
6:E:390:ASN:C	6:E:392:LEU:N	2.66	0.48
6:E:398:VAL:HG23	6:E:407:LEU:HD23	1.95	0.48
6:E:403:ALA:O	6:E:404:ALA:C	2.53	0.48
6:E:426:HIS:C	6:E:426:HIS:CD2	2.88	0.48
6:E:430:LEU:HD22	6:E:475:VAL:HG22	1.96	0.48
6:E:574:VAL:CG1	6:E:575:LYS:HG3	2.44	0.48
6:E:588:TYR:O	6:E:589:LYS:C	2.56	0.48
7:F:31:ILE:O	7:F:32:THR:O	2.32	0.48
7:F:55:MET:CB	7:F:60:ARG:HE	2.25	0.48
7:F:62:ILE:O	7:F:66:SER:N	2.46	0.48
8:G:133:TRP:CE2	8:G:136:ALA:HA	2.49	0.48
8:G:178:LEU:CG	8:G:222:ILE:HG22	2.41	0.48
9:X:34:ILE:HB	9:X:92:ALA:HB1	1.96	0.48
9:Y:49:LYS:HD2	9:Y:71:GLU:HA	1.95	0.48
1:1:61:DT:N3	1:1:62:DT:N3	2.62	0.47
1:1:94:DT:H2"	1:1:95:DT:O5'	2.14	0.47
1:1:101:DT:N3	1:1:102:DA:N7	2.61	0.47
2:2:40:DC:N3	2:2:41:DC:C4	2.82	0.47
2:2:51:DT:H3'	2:2:51:DT:P	2.53	0.47
2:2:52:DA:C6	2:2:53:DT:C5	3.02	0.47
3:A:81:VAL:HG23	3:A:82:GLU:HG2	1.95	0.47
3:A:129:ILE:O	3:A:129:ILE:HG13	2.04	0.47
3:A:151:SER:CA	3:A:161:TYR:HA	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:169:ARG:O	3:A:169:ARG:HG3	2.13	0.47
3:A:215:HIS:CE1	3:A:219:PHE:CE1	3.02	0.47
3:A:573:LEU:HA	3:A:573:LEU:HD13	1.65	0.47
3:A:676:GLU:OE1	3:A:677:GLY:N	2.47	0.47
4:B:8:VAL:HG11	6:E:615:TYR:OH	2.14	0.47
4:B:61:SER:C	4:B:63:ARG:N	2.72	0.47
4:B:209:ILE:C	4:B:210:ARG:HD2	2.35	0.47
4:B:379:VAL:HG13	4:B:380:GLU:N	2.22	0.47
4:B:463:LYS:NZ	4:B:466:ARG:N	2.62	0.47
4:B:488:TYR:HD1	4:B:849:THR:O	1.97	0.47
4:B:518:ILE:HA	4:B:869:SER:H	1.79	0.47
4:B:552:THR:OG1	4:B:563:LEU:CG	2.62	0.47
4:B:638:GLU:N	4:B:638:GLU:CD	2.71	0.47
4:B:660:VAL:HA	4:B:665:PHE:HA	1.96	0.47
4:B:721:GLU:C	4:B:723:ARG:N	2.71	0.47
4:B:896:ARG:C	4:B:987:LEU:HD13	2.38	0.47
4:B:928:LEU:HD21	4:B:934:ALA:N	2.11	0.47
4:B:1090:PRO:O	4:B:1093:ILE:CG1	2.62	0.47
5:C:105:THR:O	5:C:130:ILE:N	2.47	0.47
5:C:201:ASN:OD1	5:C:203:SER:N	2.44	0.47
5:D:117:GLU:O	5:D:118:VAL:C	2.57	0.47
6:E:69:TRP:CD1	6:E:93:VAL:CG1	2.93	0.47
6:E:337:ILE:HG23	6:E:338:ILE:HG23	1.96	0.47
6:E:377:ARG:CD	6:E:448:LEU:HB3	2.44	0.47
6:E:522:ALA:HB3	6:E:553:HIS:CE1	2.49	0.47
8:G:263:ALA:O	8:G:267:GLU:N	2.42	0.47
8:G:267:GLU:O	8:G:268:MET:CG	2.62	0.47
8:G:373:LEU:O	8:G:377:ARG:N	2.47	0.47
9:X:57:VAL:HG22	9:X:58:TYR:H	1.78	0.47
9:X:167:GLY:HA3	9:X:213:HIS:O	2.13	0.47
9:Y:93:VAL:HG12	9:Y:95:PHE:N	2.28	0.47
9:Y:126:LEU:HD23	9:Y:130:ILE:HG13	1.92	0.47
9:Y:147:SER:O	9:Y:148:ARG:C	2.57	0.47
1:1:106:DG:N3	1:1:107:DG:C5	2.82	0.47
3:A:66:HIS:C	3:A:67:PHE:CD1	2.92	0.47
3:A:142:VAL:N	3:A:324:ARG:O	2.26	0.47
3:A:283:LEU:HA	3:A:283:LEU:HD23	1.51	0.47
3:A:333:GLN:C	3:A:333:GLN:CD	2.78	0.47
3:A:513:ARG:HD3	3:A:513:ARG:H	1.79	0.47
3:A:696:TYR:O	3:A:697:ASN:HB3	2.14	0.47
3:A:1097:SER:O	3:A:1098:LEU:CD2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:121:SER:C	4:B:123:TYR:N	2.70	0.47
4:B:438:THR:C	4:B:1067:GLN:HE22	2.22	0.47
4:B:453:VAL:HG11	4:B:455:PHE:CE1	2.49	0.47
4:B:454:LYS:HA	4:B:984:ASP:HA	1.95	0.47
4:B:563:LEU:HB3	4:B:571:VAL:HG13	1.96	0.47
4:B:910:ILE:CD1	4:B:943:VAL:HG21	2.41	0.47
4:B:1077:VAL:HG23	4:B:1083:LEU:HG	1.96	0.47
4:B:1112:HIS:HA	4:B:1115:GLN:HE21	1.78	0.47
4:B:1144:ILE:O	4:B:1147:GLN:CB	2.62	0.47
4:B:1243:ARG:CB	6:E:6:THR:HG22	2.44	0.47
5:C:35:THR:O	5:C:38:ASN:HB3	2.13	0.47
5:C:105:THR:H	5:C:130:ILE:HG23	1.78	0.47
5:C:191:LYS:C	5:C:192:ASP:OD1	2.58	0.47
5:D:86:ILE:C	5:D:87:LEU:CG	2.86	0.47
5:D:201:ASN:HD21	5:D:203:SER:N	2.12	0.47
6:E:22:ILE:HG21	6:E:248:VAL:C	2.39	0.47
6:E:62:ILE:HG21	6:E:62:ILE:HD13	1.44	0.47
6:E:296:GLU:C	6:E:298:ILE:N	2.52	0.47
6:E:435:THR:HG21	6:E:440:GLY:HA3	1.96	0.47
6:E:451:GLY:C	6:E:452:ARG:CG	2.84	0.47
6:E:541:VAL:CG1	6:E:542:ILE:N	2.73	0.47
6:E:545:PHE:O	6:E:548:GLU:N	2.33	0.47
6:E:614:ILE:O	6:E:617:LYS:HB3	2.14	0.47
7:F:60:ARG:HD3	7:F:60:ARG:HA	1.43	0.47
8:G:248:LEU:O	8:G:251:GLN:HB2	2.14	0.47
8:G:331:PRO:HA	8:G:334:ARG:CD	2.43	0.47
9:X:179:ILE:O	9:X:182:ALA:HB3	2.14	0.47
9:Y:52:VAL:HG13	9:Y:95:PHE:N	2.30	0.47
1:1:77:DA:N6	2:2:50:DG:O6	2.48	0.47
1:1:77:DA:N3	2:2:50:DG:C2	2.83	0.47
1:1:92:DT:H2"	1:1:93:DT:OP2	2.14	0.47
1:1:116:DC:C4	1:1:117:DG:O6	2.68	0.47
1:1:117:DG:N7	1:1:118:DG:C5	2.81	0.47
3:A:80:SER:HG	3:A:83:GLU:HB2	1.78	0.47
3:A:80:SER:HG	3:A:83:GLU:N	2.08	0.47
3:A:123:THR:HG23	3:A:128:PHE:HA	1.95	0.47
3:A:136:VAL:CG1	3:A:387:MET:SD	3.03	0.47
3:A:293:THR:OG1	3:A:294:SER:N	2.42	0.47
3:A:616:THR:OG1	3:A:633:GLN:CD	2.55	0.47
3:A:636:ARG:HG3	3:A:636:ARG:NH1	2.29	0.47
3:A:805:ARG:N	3:A:805:ARG:HD2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:806:VAL:CG1	3:A:807:PRO:HD2	2.45	0.47
3:A:868:ILE:O	3:A:868:ILE:CG1	2.58	0.47
3:A:972:VAL:HG13	4:B:50:SER:OG	2.14	0.47
4:B:122:VAL:HA	4:B:126:ALA:HB3	1.96	0.47
4:B:203:VAL:HG22	4:B:1197:ILE:O	2.14	0.47
4:B:407:GLY:C	4:B:429:LEU:HG	2.40	0.47
4:B:473:THR:CB	4:B:977:GLY:H	2.24	0.47
4:B:498:VAL:HG13	4:B:510:LEU:HA	1.95	0.47
4:B:503:ARG:HA	4:B:882:GLY:O	2.14	0.47
4:B:538:GLU:HB3	4:B:835:LEU:HD11	1.95	0.47
4:B:597:ARG:O	4:B:788:VAL:HA	2.14	0.47
4:B:606:PHE:CD2	4:B:606:PHE:C	2.92	0.47
4:B:774:LEU:HD12	4:B:790:LEU:HB2	1.95	0.47
4:B:922:ILE:HG21	4:B:936:GLU:HB3	1.95	0.47
4:B:1040:TYR:CE1	4:B:1047:ILE:HD12	2.48	0.47
4:B:1077:VAL:HG23	4:B:1077:VAL:O	2.14	0.47
4:B:1129:TYR:HD1	4:B:1129:TYR:HA	1.35	0.47
4:B:1146:ARG:C	4:B:1148:MET:H	2.23	0.47
5:C:201:ASN:HD21	5:C:203:SER:N	2.12	0.47
6:E:577:THR:N	6:E:585:THR:O	2.39	0.47
8:G:330:SER:CB	8:G:333:GLU:OE1	2.37	0.47
9:X:152:PHE:HA	9:X:155:ILE:HB	1.95	0.47
9:X:169:THR:CG2	9:X:211:THR:HA	2.44	0.47
9:X:188:VAL:HG13	9:X:192:ARG:HB2	1.97	0.47
9:Y:36:PHE:CG	9:Y:91:HIS:ND1	2.78	0.47
9:Y:123:LEU:HD12	9:Y:123:LEU:O	2.14	0.47
9:Y:206:HIS:HE1	9:Y:211:THR:CG2	2.26	0.47
1:1:122:DC:H6	1:1:122:DC:H2'	1.41	0.47
3:A:136:VAL:O	3:A:136:VAL:HG13	2.07	0.47
3:A:178:ASP:O	3:A:179:ARG:C	2.58	0.47
3:A:180:ASN:ND2	3:A:182:LEU:CB	2.70	0.47
3:A:257:LEU:HD12	3:A:258:ASP:N	2.29	0.47
3:A:272:VAL:HA	3:A:275:TYR:HB3	1.95	0.47
3:A:357:GLU:C	3:A:359:LEU:N	2.70	0.47
3:A:369:PRO:O	3:A:370:LEU:C	2.54	0.47
3:A:791:ILE:H	3:A:791:ILE:CD1	2.22	0.47
3:A:979:MET:HB3	3:A:979:MET:HE3	1.49	0.47
4:B:61:SER:O	4:B:65:LEU:HB3	2.14	0.47
4:B:124:MET:HA	6:E:518:TYR:CE1	2.49	0.47
4:B:367:THR:HG1	4:B:370:THR:HG1	1.55	0.47
4:B:446:ALA:HA	4:B:992:ASP:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:522:VAL:HB	4:B:862:GLY:N	2.30	0.47
4:B:527:GLU:HB2	4:B:530:PRO:HG3	1.96	0.47
4:B:687:LYS:HD3	4:B:688:PRO:HD2	1.96	0.47
4:B:772:GLN:HB3	4:B:791:LEU:CD1	2.34	0.47
4:B:884:VAL:HG13	4:B:897:CYS:HB3	1.96	0.47
4:B:913:LYS:HB2	4:B:915:LYS:CG	2.34	0.47
5:C:77:GLU:O	5:C:78:ILE:C	2.53	0.47
5:D:10:GLU:C	5:D:21:SER:HA	2.39	0.47
6:E:41:LYS:NZ	6:E:53:GLU:HB2	2.30	0.47
6:E:41:LYS:HB2	6:E:56:GLY:HA2	1.96	0.47
6:E:147:VAL:CG2	6:E:152:ASN:HB3	2.44	0.47
6:E:286:LEU:HD13	6:E:302:GLU:CG	2.44	0.47
6:E:370:ILE:O	6:E:371:HIS:ND1	2.47	0.47
6:E:456:LEU:HD23	6:E:468:PHE:CZ	2.49	0.47
8:G:185:GLN:O	8:G:188:SER:HB2	2.14	0.47
8:G:378:HIS:CB	9:X:57:VAL:HG21	2.38	0.47
9:X:34:ILE:HB	9:X:92:ALA:CB	2.44	0.47
9:X:98:VAL:HG13	9:X:100:LEU:HD11	1.95	0.47
9:Y:35:PHE:CZ	9:Y:90:TYR:O	2.68	0.47
9:Y:169:THR:CG2	9:Y:211:THR:HA	2.44	0.47
1:1:75:DA:C4	1:1:76:DC:C6	3.02	0.47
1:1:86:DG:C4	1:1:87:DA:N7	2.82	0.47
1:1:90:DA:C5	1:1:91:DT:C4	3.03	0.47
2:2:27:DA:H2"	8:G:237:GLU:OE1	2.15	0.47
2:2:30:DG:C6	2:2:31:DA:C8	3.03	0.47
3:A:67:PHE:CB	3:A:99:THR:HA	2.44	0.47
3:A:165:LEU:HD13	3:A:165:LEU:HA	1.28	0.47
3:A:341:ASN:O	3:A:344:GLU:N	2.48	0.47
3:A:524:VAL:CG1	3:A:525:ASP:N	2.77	0.47
3:A:698:TYR:CE2	6:E:458:PRO:HB3	2.48	0.47
3:A:727:ARG:NH2	3:A:832:ALA:N	2.61	0.47
3:A:847:GLN:O	3:A:848:VAL:C	2.54	0.47
3:A:889:VAL:N	3:A:890:PRO:HD3	2.29	0.47
3:A:982:LEU:O	3:A:983:VAL:C	2.56	0.47
3:A:993:ARG:HH22	3:A:996:GLY:C	2.22	0.47
3:A:1044:ASP:O	3:A:1048:ARG:N	2.45	0.47
4:B:53:VAL:CG2	4:B:164:ARG:HG2	2.44	0.47
4:B:87:GLU:O	4:B:88:VAL:C	2.57	0.47
4:B:133:ASN:HD22	4:B:135:SER:HB3	1.79	0.47
4:B:149:ASP:HB3	4:B:155:ILE:CD1	2.45	0.47
4:B:271:GLU:HG3	4:B:272:ILE:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:271:GLU:HA	4:B:274:LYS:HG2	1.96	0.47
4:B:366:ARG:HH21	4:B:377:LEU:HD23	1.78	0.47
4:B:479:LEU:C	4:B:481:TRP:CH2	2.92	0.47
4:B:498:VAL:CG1	4:B:510:LEU:HA	2.44	0.47
4:B:516:THR:OG1	4:B:870:VAL:HG23	2.15	0.47
4:B:527:GLU:O	4:B:530:PRO:CD	2.61	0.47
4:B:548:GLN:HB2	4:B:753:PRO:CB	2.44	0.47
4:B:743:GLU:O	4:B:744:PHE:HD1	1.97	0.47
4:B:903:SER:CA	4:B:906:ALA:HA	2.36	0.47
4:B:1063:LEU:HD23	4:B:1064:GLY:N	2.30	0.47
4:B:1226:GLU:CD	6:E:233:ASN:HD21	2.23	0.47
5:C:57:ARG:NH2	5:C:164:LEU:O	2.46	0.47
5:C:86:ILE:N	5:C:125:GLN:HE22	2.13	0.47
5:D:151:VAL:O	5:D:152:GLU:C	2.58	0.47
6:E:17:ALA:CB	6:E:25:TRP:CH2	2.98	0.47
6:E:114:HIS:NE2	6:E:116:TRP:HB2	2.28	0.47
6:E:175:TYR:C	6:E:177:GLU:N	2.71	0.47
6:E:324:VAL:HG13	6:E:329:ARG:N	2.30	0.47
6:E:616:ASN:O	6:E:617:LYS:C	2.53	0.47
6:E:617:LYS:O	6:E:618:ALA:C	2.56	0.47
8:G:365:ILE:N	8:G:365:ILE:CD1	2.76	0.47
8:G:388:TYR:O	8:G:388:TYR:CD2	2.67	0.47
9:Y:167:GLY:HA3	9:Y:213:HIS:O	2.13	0.47
1:1:62:DT:OP2	1:1:62:DT:H71	2.14	0.47
1:1:71:DT:H3	2:2:56:DG:H1	1.62	0.47
1:1:75:DA:N1	2:2:52:DA:C2	2.83	0.47
1:1:76:DC:N3	1:1:77:DA:C5	2.83	0.47
1:1:112:DG:C8	1:1:112:DG:OP2	2.66	0.47
3:A:101:LEU:CA	3:A:109:ILE:HA	2.40	0.47
3:A:112:GLN:HG3	3:A:361:PRO:HG2	1.95	0.47
3:A:167:PRO:HB3	3:A:267:TYR:CE1	2.50	0.47
3:A:245:GLY:C	3:A:246:GLU:CD	2.82	0.47
3:A:452:ARG:HD3	3:A:479:TYR:HE2	1.79	0.47
3:A:453:VAL:O	3:A:453:VAL:HG23	2.12	0.47
3:A:464:ARG:NE	3:A:529:VAL:HG13	2.29	0.47
3:A:578:LEU:O	3:A:578:LEU:CG	2.50	0.47
3:A:720:GLU:HB3	3:A:840:VAL:HG12	1.96	0.47
3:A:1025:LEU:CD1	3:A:1034:LEU:CD1	2.93	0.47
3:A:1028:PHE:HD1	6:E:438:ARG:HB2	1.56	0.47
4:B:366:ARG:NH2	4:B:369:ARG:HE	2.12	0.47
4:B:366:ARG:NE	4:B:369:ARG:NH2	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:370:THR:C	4:B:375:ASP:OD2	2.58	0.47
4:B:523:VAL:HG11	4:B:859:VAL:HA	1.97	0.47
4:B:524:ARG:HD2	4:B:540:ILE:HG13	1.96	0.47
4:B:564:ILE:CG1	4:B:830:LEU:HD11	2.44	0.47
5:C:5:GLN:HB2	5:C:26:GLU:HG3	1.97	0.47
5:C:9:VAL:CG1	5:C:22:LYS:CG	2.88	0.47
5:C:44:LEU:C	5:C:46:SER:H	2.21	0.47
5:C:82:MET:HB3	5:C:82:MET:HE3	1.34	0.47
6:E:285:ARG:HG2	6:E:286:LEU:N	2.29	0.47
6:E:414:SER:O	6:E:415:VAL:C	2.57	0.47
6:E:502:THR:C	6:E:504:ARG:H	2.22	0.47
8:G:95:LEU:HD23	8:G:99:GLU:HB2	1.97	0.47
8:G:194:ALA:O	8:G:195:ALA:C	2.53	0.47
8:G:206:PHE:O	8:G:210:ALA:N	2.43	0.47
8:G:323:GLU:O	8:G:324:LYS:C	2.54	0.47
9:X:95:PHE:CD2	9:X:96:THR:N	2.82	0.47
9:Y:43:ARG:CD	9:Y:105:ILE:HG13	2.45	0.47
1:1:68:DT:H2'	1:1:69:DA:C8	2.50	0.47
1:1:75:DA:C2	1:1:76:DC:C2	3.03	0.47
1:1:78:DA:N9	1:1:79:DA:C8	2.83	0.47
1:1:80:DA:C2	1:1:81:DT:H73	2.49	0.47
1:1:89:DA:C5	2:2:37:DT:O4	2.68	0.47
1:1:93:DT:C2'	1:1:94:DT:H71	2.45	0.47
1:1:93:DT:C6	1:1:94:DT:H71	2.49	0.47
1:1:94:DT:C4	2:2:32:DA:N6	2.83	0.47
2:2:36:DT:O3'	2:2:37:DT:H2'	2.15	0.47
2:2:67:DA:C4	2:2:67:DA:O5'	2.68	0.47
3:A:38:PHE:C	3:A:40:TRP:N	2.68	0.47
3:A:72:TYR:HB2	3:A:95:MET:HG3	1.96	0.47
3:A:147:VAL:O	3:A:147:VAL:HG13	2.14	0.47
3:A:153:ILE:HA	3:A:158:ARG:O	2.14	0.47
3:A:162:SER:HA	3:A:176:GLU:CA	2.40	0.47
3:A:278:ASN:HA	3:A:283:LEU:H	1.79	0.47
3:A:305:ILE:C	3:A:307:LEU:N	2.64	0.47
3:A:342:ARG:O	3:A:343:LEU:C	2.55	0.47
3:A:370:LEU:HD23	3:A:370:LEU:HA	1.39	0.47
3:A:429:ARG:NH2	3:A:481:THR:HG22	2.29	0.47
3:A:467:GLU:O	3:A:468:ASN:C	2.58	0.47
3:A:500:ASN:O	3:A:502:TYR:N	2.48	0.47
3:A:512:TYR:CD2	3:A:513:ARG:NE	2.83	0.47
3:A:515:GLU:OE1	3:A:516:PHE:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:520:THR:HA	3:A:521:PRO:HD3	1.64	0.47
3:A:612:GLY:HA2	3:A:632:GLY:HA2	1.96	0.47
3:A:704:ILE:HD13	3:A:704:ILE:HA	1.54	0.47
3:A:768:ILE:HD13	3:A:768:ILE:HA	1.56	0.47
3:A:950:ASN:O	3:A:951:PRO:C	2.58	0.47
3:A:996:GLY:O	3:A:997:PRO:C	2.53	0.47
3:A:1015:GLN:CG	6:E:357:SER:OG	2.62	0.47
3:A:1021:GLU:HG3	6:E:434:PRO:HA	1.96	0.47
4:B:26:THR:H	4:B:26:THR:HG23	1.42	0.47
4:B:59:PRO:HA	4:B:60:PRO:HD2	1.77	0.47
4:B:79:ARG:O	4:B:85:ILE:HG12	2.15	0.47
4:B:107:ASP:HB3	4:B:354:ASP:CA	2.45	0.47
4:B:230:LYS:NZ	4:B:231:THR:C	2.73	0.47
4:B:230:LYS:HD2	4:B:231:THR:N	2.30	0.47
4:B:252:LYS:CE	4:B:255:GLU:OE1	2.63	0.47
4:B:352:LYS:HZ3	4:B:389:PRO:CG	2.27	0.47
4:B:520:GLY:CA	4:B:764:ARG:HH21	2.28	0.47
4:B:536:GLU:C	4:B:837:SER:OG	2.57	0.47
4:B:537:ILE:N	4:B:837:SER:C	2.73	0.47
4:B:604:LEU:HD13	4:B:631:TRP:CE3	2.49	0.47
4:B:645:LEU:CA	4:B:662:LYS:HD3	2.45	0.47
4:B:656:ALA:O	4:B:668:ASN:CG	2.58	0.47
4:B:664:ILE:HG23	4:B:664:ILE:HD12	1.55	0.47
4:B:704:ASP:OD1	4:B:704:ASP:N	2.47	0.47
4:B:901:ARG:C	4:B:903:SER:H	2.23	0.47
4:B:913:LYS:CE	4:B:914:PRO:HD2	2.44	0.47
4:B:939:GLN:HE22	4:B:941:VAL:CB	2.28	0.47
4:B:1235:LEU:O	4:B:1236:LYS:HB3	2.15	0.47
5:C:56:VAL:O	5:C:57:ARG:NH2	2.47	0.47
5:C:210:LEU:HA	5:C:210:LEU:HD23	1.28	0.47
5:C:220:LEU:HD23	5:D:4:PHE:CZ	2.49	0.47
5:D:94:ALA:HB1	5:D:96:ILE:HD11	1.96	0.47
5:D:168:SER:OG	5:D:169:ILE:HG12	2.14	0.47
5:D:191:LYS:C	5:D:192:ASP:OD1	2.58	0.47
5:D:211:SER:O	5:D:212:SER:C	2.54	0.47
6:E:31:PRO:HD2	6:E:32:ASN:H	1.78	0.47
6:E:71:CYS:O	6:E:72:HIS:C	2.57	0.47
6:E:95:GLU:CG	6:E:96:SER:N	2.68	0.47
6:E:99:ARG:C	6:E:101:HIS:H	2.22	0.47
6:E:279:VAL:HG12	6:E:309:ALA:HB1	1.95	0.47
6:E:279:VAL:HG12	6:E:309:ALA:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:430:LEU:HB3	6:E:473:MET:CE	2.45	0.47
6:E:486:GLU:HG2	6:E:487:ALA:N	2.15	0.47
6:E:495:ASN:OD1	6:E:495:ASN:C	2.48	0.47
6:E:524:ASN:HB2	6:E:553:HIS:ND1	2.29	0.47
6:E:620:GLN:C	6:E:620:GLN:OE1	2.57	0.47
8:G:119:ARG:NH2	8:G:123:LYS:NZ	2.62	0.47
8:G:135:GLU:C	8:G:137:VAL:N	2.69	0.47
8:G:141:LEU:HD12	8:G:141:LEU:HA	1.47	0.47
8:G:179:SER:HB3	8:G:182:ASP:HB2	1.97	0.47
8:G:191:LEU:HD12	8:G:191:LEU:HA	1.35	0.47
8:G:193:ARG:HH11	8:G:193:ARG:HG2	1.80	0.47
8:G:348:MET:O	8:G:348:MET:SD	2.73	0.47
8:G:348:MET:C	8:G:348:MET:SD	2.97	0.47
8:G:350:THR:OG1	8:G:352:GLU:CD	2.57	0.47
9:X:26:GLU:H	9:X:26:GLU:CD	2.22	0.47
9:X:52:VAL:HG13	9:X:98:VAL:CG2	2.41	0.47
9:X:148:ARG:HH22	9:Y:143:ARG:NE	2.07	0.47
9:X:170:ILE:CG2	9:X:171:ASP:N	2.77	0.47
9:Y:27:THR:HG23	9:Y:98:VAL:HB	1.97	0.47
9:Y:35:PHE:HD1	9:Y:36:PHE:C	2.22	0.47
9:Y:88:ARG:C	9:Y:90:TYR:N	2.73	0.47
9:Y:136:MET:HA	9:Y:139:THR:HG23	1.95	0.47
9:Y:203:ILE:HB	9:Y:211:THR:H	1.80	0.47
1:1:72:DT:H73	9:X:187:ARG:NH1	2.26	0.47
1:1:74:DT:C2	2:2:53:DT:C2	3.03	0.47
1:1:101:DT:C4	1:1:102:DA:C5	3.03	0.47
2:2:42:DT:C5	2:2:43:DG:C4	3.02	0.47
3:A:48:GLU:CG	3:A:49:GLU:N	2.77	0.47
3:A:58:ASP:HB2	3:A:352:THR:HG23	1.96	0.47
3:A:81:VAL:CG2	3:A:82:GLU:H	2.19	0.47
3:A:180:ASN:OD1	3:A:180:ASN:C	2.46	0.47
3:A:185:VAL:HG21	3:A:200:LYS:HZ2	1.79	0.47
3:A:564:VAL:H	3:A:564:VAL:HG22	1.36	0.47
3:A:592:SER:OG	3:A:592:SER:O	2.25	0.47
3:A:739:GLU:OE2	3:A:740:ILE:N	2.47	0.47
4:B:24:TYR:O	4:B:25:GLY:O	2.32	0.47
4:B:126:ALA:C	4:B:128:SER:H	2.22	0.47
4:B:220:ILE:HD12	4:B:220:ILE:HA	1.35	0.47
4:B:224:PRO:CD	4:B:235:LEU:HD13	2.45	0.47
4:B:455:PHE:CA	4:B:481:TRP:HE3	2.16	0.47
4:B:520:GLY:CA	4:B:806:GLU:HA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:521:GLY:C	4:B:863:ASP:O	2.58	0.47
4:B:763:GLY:O	4:B:801:GLN:HG2	2.13	0.47
4:B:901:ARG:O	4:B:903:SER:N	2.48	0.47
4:B:1014:ILE:O	4:B:1017:LEU:N	2.48	0.47
4:B:1145:VAL:CG1	4:B:1146:ARG:N	2.74	0.47
5:C:40:LEU:C	5:C:42:ARG:N	2.70	0.47
5:C:149:ARG:HD3	5:C:154:GLY:N	2.30	0.47
5:C:178:TYR:N	5:C:178:TYR:CD1	2.80	0.47
5:D:20:TYR:CD1	5:D:199:TRP:CZ3	3.03	0.47
5:D:79:ILE:C	5:D:82:MET:N	2.66	0.47
5:D:149:ARG:C	5:D:149:ARG:CD	2.87	0.47
6:E:134:ARG:N	6:E:137:GLU:HB3	2.23	0.47
6:E:216:ALA:O	6:E:219:GLN:HB2	2.14	0.47
6:E:400:ASN:HD21	6:E:402:LYS:HB2	1.80	0.47
6:E:595:GLU:CG	6:E:596:ASP:H	2.16	0.47
7:F:28:ARG:O	7:F:32:THR:HG23	2.15	0.47
7:F:39:ALA:HA	7:F:42:ARG:HB2	1.97	0.47
8:G:103:LEU:O	8:G:106:LYS:N	2.48	0.47
8:G:110:LEU:CD1	8:G:148:LEU:HD12	2.45	0.47
8:G:131:SER:O	8:G:135:GLU:OE1	2.33	0.47
8:G:249:LEU:HD21	8:G:265:ARG:HH11	1.80	0.47
9:X:130:ILE:HD11	9:Y:130:ILE:HG21	1.96	0.47
9:Y:54:LEU:CD1	9:Y:92:ALA:HA	2.39	0.47
9:Y:126:LEU:O	9:Y:130:ILE:HG12	2.15	0.47
1:1:59:DT:C4	1:1:60:DT:O4	2.68	0.47
1:1:101:DT:C4	1:1:102:DA:C6	3.03	0.47
1:1:113:DT:C2	1:1:114:DC:N3	2.83	0.47
2:2:38:DT:N3	2:2:39:DT:C5	2.82	0.47
2:2:58:DA:C5	2:2:59:DG:C5	3.03	0.47
3:A:260:ARG:O	3:A:261:PHE:CG	2.68	0.47
3:A:320:LEU:HD22	3:A:426:HIS:HA	1.96	0.47
3:A:423:HIS:HA	3:A:424:PRO:HD3	1.62	0.47
3:A:464:ARG:HE	3:A:529:VAL:HG13	1.80	0.47
3:A:613:GLN:O	3:A:616:THR:HG23	2.15	0.47
3:A:685:ASN:HB3	3:A:978:TYR:HD1	1.80	0.47
3:A:697:ASN:O	3:A:885:ASN:ND2	2.48	0.47
3:A:806:VAL:C	3:A:807:PRO:O	2.54	0.47
3:A:872:PRO:HA	3:A:961:ASP:CA	2.27	0.47
3:A:1005:PRO:HD2	6:E:353:ARG:O	2.15	0.47
4:B:151:GLN:NE2	4:B:153:GLU:N	2.63	0.47
4:B:169:VAL:O	4:B:171:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:203:VAL:HG22	4:B:1200:ALA:O	2.14	0.47
4:B:325:GLU:C	4:B:327:GLY:H	2.22	0.47
4:B:367:THR:HA	4:B:370:THR:HG23	1.97	0.47
4:B:440:LYS:CE	4:B:998:VAL:HG22	2.44	0.47
4:B:491:PRO:HA	4:B:895:ARG:HH21	1.80	0.47
4:B:495:GLU:N	4:B:513:THR:HG22	2.30	0.47
4:B:496:LEU:HA	4:B:511:ALA:CB	2.45	0.47
4:B:562:TYR:O	4:B:564:ILE:HG12	2.15	0.47
4:B:645:LEU:N	4:B:662:LYS:HD3	2.30	0.47
4:B:645:LEU:N	4:B:662:LYS:NZ	2.63	0.47
4:B:924:ALA:HB2	4:B:935:GLU:O	2.15	0.47
4:B:1225:ILE:HB	4:B:1226:GLU:OE2	2.15	0.47
5:C:44:LEU:HD23	5:C:44:LEU:HA	1.24	0.47
5:C:205:SER:OG	5:C:206:PRO:N	2.44	0.47
6:E:97:ARG:HG3	6:E:100:ARG:HH21	1.80	0.47
6:E:230:VAL:O	6:E:233:ASN:CB	2.62	0.47
6:E:379:MET:O	6:E:383:LEU:HD23	2.15	0.47
6:E:515:LEU:C	6:E:515:LEU:CD1	2.74	0.47
6:E:580:GLU:H	6:E:583:SER:CB	2.25	0.47
7:F:30:ARG:HD2	7:F:30:ARG:HA	1.46	0.47
8:G:77:TYR:CE1	8:G:78:THR:CG2	2.86	0.47
8:G:206:PHE:HB2	8:G:210:ALA:HB2	1.96	0.47
9:Y:43:ARG:HD2	9:Y:79:SER:HB3	1.96	0.47
1:1:75:DA:C6	2:2:52:DA:N1	2.82	0.47
1:1:78:DA:C2'	1:1:79:DA:C8	2.98	0.47
1:1:100:DA:C8	1:1:100:DA:OP2	2.68	0.47
1:1:116:DC:H1'	1:1:117:DG:O4'	2.15	0.47
3:A:159:ARG:NH1	3:A:161:TYR:CE1	2.79	0.47
3:A:370:LEU:O	3:A:372:ALA:N	2.48	0.47
3:A:610:VAL:HA	3:A:633:GLN:N	2.28	0.47
3:A:630:GLN:O	3:A:631:LYS:O	2.33	0.47
3:A:798:ASP:OD2	3:A:799:VAL:HG23	2.15	0.47
4:B:183:LEU:O	4:B:184:VAL:C	2.53	0.47
4:B:188:LEU:C	4:B:190:THR:HG22	2.40	0.47
4:B:443:LYS:HG3	4:B:997:LEU:HB3	1.97	0.47
4:B:447:SER:HB3	4:B:991:GLY:N	2.28	0.47
4:B:456:ALA:H	4:B:481:TRP:HZ3	1.62	0.47
4:B:533:SER:HB3	4:B:535:ARG:CZ	2.45	0.47
4:B:656:ALA:O	4:B:668:ASN:OD1	2.33	0.47
4:B:675:THR:O	4:B:681:LEU:HB2	2.14	0.47
4:B:725:ILE:CD1	4:B:736:LEU:HB3	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:766:ILE:HA	4:B:799:ILE:HD13	1.97	0.47
4:B:804:GLU:O	4:B:805:GLN:C	2.58	0.47
4:B:805:GLN:NE2	4:B:806:GLU:HG2	2.30	0.47
4:B:1023:PRO:HD2	4:B:1024:LYS:HG2	1.97	0.47
4:B:1126:GLN:NE2	4:B:1126:GLN:HA	2.25	0.47
4:B:1220:LEU:O	4:B:1221:THR:C	2.58	0.47
5:D:74:ASP:OD1	5:D:75:VAL:HG12	2.15	0.47
5:D:186:ASP:O	5:D:188:SER:N	2.47	0.47
6:E:198:ALA:HA	6:E:242:GLU:CD	2.40	0.47
6:E:381:ILE:O	6:E:382:GLU:C	2.54	0.47
6:E:488:ARG:HA	6:E:488:ARG:HD2	1.66	0.47
6:E:504:ARG:NE	6:E:504:ARG:CA	2.76	0.47
8:G:185:GLN:H	8:G:185:GLN:HG2	1.32	0.47
8:G:267:GLU:O	8:G:268:MET:SD	2.72	0.47
9:X:110:GLN:O	9:X:113:LYS:HB3	2.15	0.47
9:Y:52:VAL:HG13	9:Y:95:PHE:H	1.79	0.47
9:Y:52:VAL:HA	9:Y:95:PHE:HD2	1.80	0.47
2:2:6:DA:H3'	2:2:7:DT:C7	2.36	0.46
2:2:32:DA:H2"	2:2:33:DA:O5'	2.16	0.46
2:2:47:DT:C2	2:2:48:DT:C5	3.04	0.46
2:2:59:DG:H8	2:2:59:DG:C5'	2.26	0.46
2:2:60:DC:H2"	2:2:61:DT:OP1	2.15	0.46
3:A:141:ILE:C	3:A:142:VAL:HG13	2.40	0.46
3:A:235:LEU:HB2	3:A:250:VAL:CA	2.32	0.46
3:A:250:VAL:HG13	3:A:251:LEU:N	2.29	0.46
3:A:527:VAL:HG13	3:A:527:VAL:O	2.12	0.46
3:A:713:ILE:O	3:A:714:TYR:HB2	2.14	0.46
3:A:828:LEU:HD13	3:A:832:ALA:CA	2.44	0.46
3:A:1081:GLY:O	6:E:16:LEU:HA	2.15	0.46
4:B:36:LEU:C	4:B:38:ASP:N	2.62	0.46
4:B:68:ALA:O	4:B:70:GLU:N	2.47	0.46
4:B:95:ILE:CG1	4:B:146:LEU:HD13	2.45	0.46
4:B:169:VAL:H	4:B:169:VAL:HG22	1.21	0.46
4:B:197:THR:H	4:B:197:THR:HG23	1.36	0.46
4:B:280:VAL:CG2	4:B:281:VAL:H	2.27	0.46
4:B:301:TRP:HA	4:B:308:MET:N	2.29	0.46
4:B:369:ARG:NH1	4:B:1000:GLU:CD	2.73	0.46
4:B:385:MET:SD	4:B:406:GLN:CA	3.03	0.46
4:B:439:GLU:HB3	4:B:1067:GLN:CD	2.39	0.46
4:B:487:VAL:HG21	4:B:988:VAL:O	2.15	0.46
4:B:504:VAL:HG13	4:B:508:GLY:HA3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:637:HIS:O	4:B:684:VAL:O	2.34	0.46
4:B:645:LEU:CB	4:B:662:LYS:HA	2.41	0.46
4:B:700:VAL:CA	4:B:703:ARG:H	2.28	0.46
4:B:921:LEU:C	4:B:938:GLY:H	2.23	0.46
4:B:1182:ILE:HG13	4:B:1183:THR:HG23	1.97	0.46
5:C:168:SER:OG	5:C:169:ILE:HG12	2.14	0.46
5:C:208:GLU:O	5:C:209:ALA:C	2.53	0.46
5:D:57:ARG:NH2	5:D:164:LEU:O	2.48	0.46
5:D:86:ILE:N	5:D:125:GLN:HE22	2.13	0.46
5:D:146:LYS:O	5:D:148:TYR:HE1	1.98	0.46
5:D:171:MET:SD	5:D:172:PRO:CA	3.03	0.46
5:D:181:GLU:OE2	5:D:183:VAL:HG23	2.15	0.46
6:E:125:ILE:C	6:E:129:LEU:HD13	2.39	0.46
6:E:128:LEU:HD12	6:E:244:MET:HE1	1.97	0.46
6:E:357:SER:HA	6:E:475:VAL:O	2.15	0.46
6:E:364:VAL:N	6:E:468:PHE:CE1	2.83	0.46
6:E:383:LEU:HA	6:E:383:LEU:HD13	1.47	0.46
6:E:567:ASP:N	6:E:567:ASP:OD1	2.45	0.46
8:G:117:ARG:HB3	8:G:129:ARG:HE	1.80	0.46
8:G:140:PRO:HG2	8:G:143:ALA:HB3	1.98	0.46
9:X:88:ARG:C	9:X:90:TYR:N	2.72	0.46
9:X:112:LEU:HG	9:X:119:SER:HA	1.97	0.46
9:X:176:HIS:C	9:X:179:ILE:HB	2.40	0.46
9:Y:31:ASN:N	9:Y:94:ALA:O	2.48	0.46
9:Y:123:LEU:HD12	9:Y:126:LEU:HB3	1.97	0.46
1:1:58:DA:C4	1:1:59:DT:N3	2.83	0.46
1:1:87:DA:H2"	1:1:88:DA:O5'	2.15	0.46
1:1:95:DT:H2"	1:1:96:DC:C6	2.51	0.46
2:2:6:DA:H8	2:2:6:DA:O5'	1.98	0.46
3:A:167:PRO:HB3	3:A:267:TYR:CZ	2.51	0.46
3:A:332:LEU:HA	3:A:332:LEU:HD12	1.40	0.46
3:A:552:ARG:NH1	3:A:892:ARG:CD	2.79	0.46
3:A:559:MET:HE2	3:A:559:MET:HB2	1.39	0.46
3:A:610:VAL:HG11	3:A:636:ARG:HH21	1.80	0.46
3:A:761:ALA:C	3:A:762:TRP:O	2.57	0.46
3:A:901:CYS:HB3	3:A:975:GLY:HA3	1.98	0.46
3:A:993:ARG:HD3	6:E:355:ASP:HB3	1.96	0.46
4:B:82:ARG:HD2	4:B:84:GLU:OE2	2.15	0.46
4:B:197:THR:HG22	4:B:324:GLY:HA3	1.97	0.46
4:B:244:VAL:HG21	4:B:262:THR:HB	1.97	0.46
4:B:303:LEU:HB3	6:E:502:THR:C	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:646:LEU:N	4:B:662:LYS:HZ3	2.13	0.46
4:B:797:LEU:CB	4:B:832:LEU:HD11	2.40	0.46
4:B:1018:LEU:O	4:B:1197:ILE:HG12	2.15	0.46
5:C:23:PHE:HZ	5:C:206:PRO:HB3	1.81	0.46
5:C:73:GLU:OE2	5:C:129:THR:N	2.48	0.46
5:C:74:ASP:OD1	5:C:75:VAL:HG12	2.15	0.46
5:C:166:ILE:HG23	5:C:167:ASP:N	2.25	0.46
6:E:152:ASN:HA	6:E:156:LEU:CB	2.42	0.46
6:E:257:ARG:HB2	6:E:273:ASN:HD21	1.78	0.46
6:E:266:ARG:NH1	8:G:284:ILE:HD11	2.31	0.46
6:E:277:ARG:NH2	8:G:228:THR:HA	2.29	0.46
6:E:409:SER:OG	6:E:410:ARG:NH2	2.47	0.46
6:E:533:LYS:N	6:E:556:VAL:HG13	2.30	0.46
6:E:540:ASP:O	6:E:542:ILE:N	2.48	0.46
8:G:115:ARG:HA	8:G:118:GLU:HG3	1.97	0.46
8:G:126:ARG:NE	8:G:126:ARG:HA	2.31	0.46
8:G:225:GLN:C	8:G:227:ARG:N	2.73	0.46
8:G:249:LEU:CD2	8:G:265:ARG:NH1	2.73	0.46
8:G:326:LEU:C	8:G:328:SER:N	2.73	0.46
9:X:197:LEU:HA	9:X:203:ILE:O	2.16	0.46
9:Y:47:LEU:N	9:Y:100:LEU:HD12	2.30	0.46
9:Y:84:ASN:O	9:Y:85:LYS:C	2.58	0.46
9:Y:169:THR:HG21	9:Y:211:THR:HA	1.96	0.46
1:1:79:DA:N9	1:1:80:DA:C2	2.84	0.46
2:2:28:DC:H3'	2:2:28:DC:H6	1.80	0.46
2:2:33:DA:C2	2:2:34:DA:N3	2.83	0.46
2:2:54:DA:C6	2:2:55:DA:C2	3.03	0.46
3:A:31:ILE:O	3:A:31:ILE:HG13	2.09	0.46
3:A:183:VAL:HG23	3:A:197:VAL:HB	1.97	0.46
3:A:274:ARG:NH1	3:A:285:VAL:HB	2.30	0.46
3:A:277:LEU:HD23	3:A:277:LEU:HA	1.57	0.46
3:A:382:GLN:C	3:A:383:LEU:HD12	2.40	0.46
3:A:431:CYS:SG	3:A:535:VAL:HA	2.55	0.46
3:A:473:PHE:O	3:A:474:ASP:C	2.58	0.46
3:A:616:THR:CB	3:A:633:GLN:OE1	2.64	0.46
3:A:734:GLU:HG2	3:A:772:LYS:CE	2.41	0.46
3:A:763:VAL:HG23	3:A:764:GLU:N	2.25	0.46
3:A:789:ARG:CZ	3:A:795:LYS:HD3	2.45	0.46
3:A:905:TRP:O	3:A:909:THR:HG23	2.16	0.46
4:B:93:LYS:NZ	4:B:375:ASP:HB2	2.18	0.46
4:B:95:ILE:CG1	4:B:146:LEU:CD1	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:96:ASP:C	4:B:423:LEU:N	2.73	0.46
4:B:99:ASN:HB3	4:B:423:LEU:HA	1.95	0.46
4:B:106:LYS:HE3	4:B:138:ARG:CD	2.38	0.46
4:B:134:ILE:C	4:B:137:VAL:H	2.24	0.46
4:B:330:LEU:HA	4:B:330:LEU:HD23	1.35	0.46
4:B:449:LEU:N	4:B:990:ARG:HH11	2.12	0.46
4:B:630:LEU:HD13	4:B:741:VAL:CG1	2.43	0.46
4:B:637:HIS:C	4:B:638:GLU:CD	2.82	0.46
4:B:809:ALA:O	4:B:812:LEU:N	2.39	0.46
5:C:40:LEU:HA	5:C:40:LEU:HD23	1.38	0.46
5:C:171:MET:SD	5:C:172:PRO:CA	3.03	0.46
5:C:207:GLN:C	5:C:209:ALA:N	2.72	0.46
5:C:211:SER:OG	5:D:226:ASP:N	2.49	0.46
5:D:23:PHE:HB2	5:D:196:LEU:HB3	1.97	0.46
5:D:57:ARG:HB2	5:D:139:GLU:O	2.16	0.46
5:D:159:THR:CG2	5:D:163:PHE:HB3	2.46	0.46
5:D:201:ASN:OD1	5:D:203:SER:N	2.44	0.46
6:E:402:LYS:CE	8:G:390:ARG:NH2	2.78	0.46
6:E:615:TYR:O	6:E:617:LYS:N	2.48	0.46
8:G:193:ARG:O	8:G:194:ALA:C	2.55	0.46
8:G:216:GLN:OE1	8:G:216:GLN:C	2.59	0.46
9:X:104:PRO:O	9:X:105:ILE:C	2.58	0.46
9:Y:56:ARG:HB2	9:Y:90:TYR:CG	2.48	0.46
9:Y:143:ARG:HA	9:Y:148:ARG:HH22	1.74	0.46
1:1:67:DC:H3'	1:1:68:DT:C7	2.45	0.46
1:1:74:DT:H2"	1:1:75:DA:H2'	1.98	0.46
1:1:97:DT:C4	1:1:98:DG:O6	2.69	0.46
1:1:114:DC:H1'	1:1:115:DA:C6	2.51	0.46
2:2:31:DA:N1	2:2:32:DA:C5	2.82	0.46
3:A:28:PRO:O	3:A:28:PRO:HG2	2.14	0.46
3:A:140:GLN:HE21	3:A:326:ARG:NE	2.08	0.46
3:A:330:GLU:O	3:A:332:LEU:C	2.59	0.46
3:A:348:ARG:NH1	3:A:352:THR:OG1	2.49	0.46
3:A:501:GLY:O	3:A:502:TYR:O	2.33	0.46
3:A:735:GLU:HB3	3:A:736:ILE:H	1.35	0.46
3:A:940:ARG:HB2	3:A:941:ASP:H	1.35	0.46
4:B:5:ASN:C	4:B:6:ARG:HG3	2.40	0.46
4:B:18:SER:O	4:B:21:PHE:HB3	2.16	0.46
4:B:85:ILE:HA	4:B:371:ARG:NE	2.30	0.46
4:B:174:ILE:HD12	4:B:174:ILE:HG23	1.56	0.46
4:B:256:VAL:O	4:B:257:ILE:HD13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:326:PRO:CD	4:B:327:GLY:H	2.28	0.46
4:B:455:PHE:N	4:B:455:PHE:CD1	2.82	0.46
4:B:463:LYS:HB2	4:B:465:ASP:OD1	2.15	0.46
4:B:510:LEU:C	4:B:875:GLN:HE22	2.19	0.46
4:B:622:GLU:HG2	4:B:769:ARG:HH21	1.80	0.46
4:B:709:GLN:O	4:B:712:GLU:HB3	2.16	0.46
4:B:723:ARG:O	4:B:725:ILE:N	2.49	0.46
4:B:819:ILE:HG13	4:B:819:ILE:O	2.15	0.46
4:B:916:VAL:CG2	4:B:930:PRO:HD3	2.46	0.46
4:B:1122:VAL:HG12	4:B:1123:ASN:N	2.22	0.46
4:B:1245:ILE:HG23	4:B:1246:PRO:CD	2.40	0.46
5:C:86:ILE:HG22	5:C:121:ILE:HG13	1.97	0.46
5:C:196:LEU:CD2	5:C:197:GLU:N	2.76	0.46
5:C:209:ALA:O	5:C:212:SER:N	2.49	0.46
5:D:25:LEU:HD22	5:D:28:LEU:HD21	1.97	0.46
5:D:178:TYR:CD1	5:D:178:TYR:N	2.80	0.46
6:E:58:PHE:HA	6:E:99:ARG:HH22	1.80	0.46
6:E:254:PRO:O	6:E:256:LEU:N	2.49	0.46
6:E:257:ARG:O	6:E:258:PRO:C	2.57	0.46
6:E:281:ASN:O	6:E:284:ASN:N	2.49	0.46
6:E:432:ARG:HA	6:E:473:MET:HG2	1.97	0.46
6:E:443:ALA:HB2	6:E:487:ALA:HB1	1.97	0.46
6:E:604:GLN:HG3	6:E:604:GLN:O	2.16	0.46
8:G:232:PRO:HB2	8:G:234:HIS:ND1	2.28	0.46
9:Y:31:ASN:N	9:Y:95:PHE:O	2.44	0.46
1:1:60:DT:C5	1:1:61:DT:H73	2.51	0.46
1:1:63:DG:N1	2:2:64:DA:C6	2.82	0.46
2:2:10:DG:H4'	2:2:11:DT:OP1	2.15	0.46
2:2:46:DT:C5	2:2:47:DT:C5	3.03	0.46
2:2:48:DT:C2	2:2:49:DT:C4	3.03	0.46
2:2:67:DA:O5'	2:2:67:DA:N9	2.48	0.46
3:A:32:GLU:C	3:A:32:GLU:OE1	2.57	0.46
3:A:281:LEU:C	3:A:283:LEU:N	2.64	0.46
3:A:289:VAL:O	3:A:289:VAL:CG1	2.60	0.46
3:A:357:GLU:O	3:A:359:LEU:N	2.49	0.46
3:A:453:VAL:HA	3:A:459:LEU:HA	1.97	0.46
3:A:600:TYR:N	3:A:608:VAL:HG12	2.31	0.46
3:A:693:TRP:CD1	3:A:696:TYR:HB2	2.50	0.46
3:A:697:ASN:H	3:A:701:ALA:CB	2.27	0.46
3:A:720:GLU:HB3	3:A:840:VAL:CG1	2.45	0.46
3:A:727:ARG:HH21	3:A:832:ALA:CB	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:791:ILE:HG22	3:A:792:PHE:CD1	2.50	0.46
4:B:20:ALA:O	4:B:24:TYR:N	2.49	0.46
4:B:93:LYS:HZ1	4:B:376:ALA:N	2.05	0.46
4:B:146:LEU:H	4:B:158:PRO:CB	2.29	0.46
4:B:228:GLY:C	4:B:230:LYS:N	2.70	0.46
4:B:240:LEU:HD12	4:B:240:LEU:HA	1.52	0.46
4:B:256:VAL:C	4:B:257:ILE:HD13	2.40	0.46
4:B:279:GLU:N	4:B:279:GLU:CD	2.73	0.46
4:B:575:ARG:CZ	4:B:590:GLU:OE1	2.64	0.46
4:B:604:LEU:HD12	4:B:630:LEU:O	2.16	0.46
4:B:612:GLN:N	4:B:612:GLN:CD	2.74	0.46
4:B:669:SER:O	4:B:669:SER:OG	2.24	0.46
4:B:975:SER:HB3	4:B:997:LEU:HD13	1.96	0.46
4:B:1082:PRO:O	4:B:1083:LEU:C	2.58	0.46
4:B:1105:GLY:C	4:B:1107:TYR:N	2.71	0.46
4:B:1144:ILE:O	4:B:1146:ARG:N	2.49	0.46
5:C:197:GLU:O	5:C:197:GLU:HG3	2.06	0.46
5:C:224:LEU:HG	5:D:6:ILE:CD1	2.45	0.46
5:D:174:ARG:HA	6:E:543:MET:CE	2.46	0.46
6:E:53:GLU:HG3	6:E:56:GLY:H	1.79	0.46
6:E:339:GLU:C	6:E:343:GLY:HA3	2.40	0.46
6:E:401:ILE:CG1	6:E:402:LYS:N	2.76	0.46
6:E:571:THR:N	6:E:572:GLU:OE1	2.39	0.46
6:E:588:TYR:CD2	6:E:591:ARG:HB3	2.50	0.46
7:F:20:ASP:O	7:F:21:LEU:C	2.58	0.46
8:G:110:LEU:HD11	8:G:148:LEU:HD12	1.96	0.46
8:G:159:VAL:HG23	8:G:160:GLN:H	1.80	0.46
8:G:259:GLU:CG	8:G:270:ILE:HD12	2.46	0.46
8:G:317:LEU:O	8:G:319:ARG:N	2.48	0.46
8:G:352:GLU:CD	8:G:352:GLU:H	2.19	0.46
9:Y:48:LEU:HD22	9:Y:72:ASN:HA	1.97	0.46
9:Y:55:SER:CA	9:Y:65:THR:HA	2.21	0.46
2:2:7:DT:C6	2:2:8:DC:C5	3.04	0.46
2:2:58:DA:C4	2:2:59:DG:C4	3.04	0.46
2:2:67:DA:C2	2:2:67:DA:OP1	2.69	0.46
3:A:597:ASP:CG	3:A:662:ARG:NE	2.72	0.46
3:A:748:LEU:HA	3:A:751:LEU:HD12	1.95	0.46
3:A:843:LYS:O	3:A:844:ARG:HG2	2.15	0.46
4:B:88:VAL:O	4:B:369:ARG:O	2.32	0.46
4:B:97:THR:C	4:B:421:GLY:O	2.58	0.46
4:B:107:ASP:CB	4:B:354:ASP:HB3	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:144:ARG:HD2	4:B:159:ILE:HG21	1.97	0.46
4:B:209:ILE:HD12	4:B:209:ILE:HG23	1.46	0.46
4:B:284:SER:C	4:B:286:LEU:N	2.73	0.46
4:B:303:LEU:HD11	4:B:1137:ALA:CB	2.46	0.46
4:B:654:VAL:HG22	4:B:672:VAL:CG1	2.45	0.46
4:B:766:ILE:CG1	4:B:799:ILE:HG23	2.44	0.46
4:B:1091:HIS:HA	4:B:1094:LEU:CD2	2.46	0.46
4:B:1095:GLU:O	4:B:1099:SER:N	2.47	0.46
4:B:1117:VAL:CG1	4:B:1118:GLN:N	2.78	0.46
4:B:1161:THR:O	4:B:1162:MET:C	2.58	0.46
5:C:62:SER:OG	5:C:63:HIS:CG	2.67	0.46
5:C:99:LEU:HB3	5:C:138:MET:HB2	1.97	0.46
5:D:72:ARG:N	5:D:129:THR:O	2.29	0.46
6:E:131:MET:HB3	6:E:136:VAL:CG2	2.35	0.46
6:E:252:ILE:HB	6:E:257:ARG:HD3	1.97	0.46
6:E:419:LEU:C	6:E:421:GLU:N	2.68	0.46
8:G:266:MET:SD	8:G:273:LEU:HD21	2.55	0.46
8:G:321:ASP:HA	8:G:324:LYS:NZ	2.31	0.46
9:X:28:PHE:HB2	9:X:94:ALA:CB	2.44	0.46
9:X:108:VAL:CG1	9:X:112:LEU:HD13	2.44	0.46
2:2:3:DT:H2"	2:2:4:DG:N7	2.30	0.46
2:2:7:DT:C2	2:2:8:DC:C2	3.03	0.46
2:2:34:DA:C5	2:2:35:DA:C6	3.04	0.46
2:2:58:DA:H1'	2:2:59:DG:C1'	2.46	0.46
3:A:33:ILE:HA	3:A:33:ILE:HD12	1.30	0.46
3:A:151:SER:O	3:A:152:GLU:HB3	2.15	0.46
3:A:158:ARG:CZ	3:A:179:ARG:HG3	2.45	0.46
3:A:510:VAL:HG12	3:A:517:SER:O	2.16	0.46
3:A:510:VAL:CG1	3:A:519:THR:CG2	2.92	0.46
3:A:589:VAL:CA	3:A:653:GLN:NE2	2.52	0.46
3:A:882:ILE:HG22	3:A:883:VAL:N	2.31	0.46
3:A:942:GLU:OE2	3:A:942:GLU:N	2.48	0.46
3:A:990:ILE:O	3:A:991:HIS:ND1	2.47	0.46
3:A:993:ARG:NH1	3:A:996:GLY:H	2.14	0.46
4:B:80:TYR:HB2	4:B:90:ARG:CG	2.38	0.46
4:B:243:VAL:HG23	4:B:243:VAL:O	2.16	0.46
4:B:253:THR:H	4:B:253:THR:HG23	1.37	0.46
4:B:385:MET:O	4:B:386:ILE:C	2.58	0.46
4:B:470:THR:HG22	4:B:471:THR:HG23	1.97	0.46
4:B:480:ILE:C	4:B:481:TRP:CE3	2.94	0.46
4:B:481:TRP:CE3	4:B:481:TRP:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:521:GLY:O	4:B:863:ASP:C	2.59	0.46
4:B:525:LEU:H	4:B:859:VAL:HG11	1.81	0.46
4:B:630:LEU:HA	4:B:742:VAL:O	2.16	0.46
4:B:656:ALA:C	4:B:668:ASN:ND2	2.74	0.46
4:B:925:GLY:CA	4:B:933:PHE:HB3	2.45	0.46
4:B:1066:GLY:C	4:B:1067:GLN:HE21	2.24	0.46
4:B:1151:LYS:HB2	4:B:1195:LEU:HD23	1.94	0.46
4:B:1202:LEU:HG	4:B:1203:ASN:OD1	2.15	0.46
5:D:86:ILE:HG22	5:D:121:ILE:HG13	1.97	0.46
5:D:166:ILE:HG12	5:D:167:ASP:H	1.79	0.46
5:D:166:ILE:HG23	5:D:167:ASP:N	2.25	0.46
5:D:200:THR:C	5:D:202:GLY:N	2.70	0.46
6:E:71:CYS:O	6:E:74:GLY:N	2.49	0.46
6:E:124:TYR:CD1	6:E:127:ILE:CD1	2.98	0.46
6:E:298:ILE:C	6:E:300:ARG:N	2.67	0.46
6:E:519:TYR:O	6:E:520:LEU:C	2.53	0.46
6:E:580:GLU:CD	6:E:581:ASP:H	2.24	0.46
8:G:145:ARG:O	8:G:148:LEU:HB3	2.15	0.46
8:G:203:GLY:O	8:G:204:TYR:O	2.33	0.46
8:G:244:LYS:O	8:G:248:LEU:HG	2.15	0.46
8:G:351:LEU:HG	8:G:352:GLU:N	2.29	0.46
9:X:47:LEU:HD13	9:X:100:LEU:CD2	2.16	0.46
9:X:78:LEU:C	9:X:80:LEU:N	2.73	0.46
9:Y:43:ARG:CG	9:Y:44:VAL:N	2.78	0.46
9:Y:81:LEU:HD22	9:Y:86:SER:CB	2.45	0.46
1:1:59:DT:C6	1:1:60:DT:O4	2.69	0.46
1:1:79:DA:C5	1:1:80:DA:C6	3.04	0.46
1:1:86:DG:N3	1:1:87:DA:C4	2.84	0.46
1:1:93:DT:H2”	1:1:94:DT:H71	1.98	0.46
1:1:94:DT:C6	1:1:95:DT:H71	2.51	0.46
2:2:57:DT:H1’	2:2:58:DA:N9	2.30	0.46
2:2:58:DA:H1’	2:2:59:DG:O4’	2.16	0.46
2:2:60:DC:H2’	2:2:61:DT:C5	2.41	0.46
3:A:49:GLU:C	3:A:49:GLU:OE1	2.59	0.46
3:A:114:VAL:HB	3:A:115:PHE:O	2.16	0.46
3:A:115:PHE:O	3:A:116:ILE:HG13	2.16	0.46
3:A:164:SER:C	3:A:165:LEU:CD2	2.84	0.46
3:A:222:THR:CG2	3:A:224:GLU:O	2.63	0.46
3:A:260:ARG:C	3:A:261:PHE:CG	2.94	0.46
3:A:532:VAL:HG13	3:A:535:VAL:HG21	1.97	0.46
3:A:610:VAL:HG23	3:A:633:GLN:C	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:617:ALA:O	3:A:620:LYS:N	2.47	0.46
3:A:636:ARG:HG3	3:A:636:ARG:HH11	1.81	0.46
3:A:641:LYS:HA	3:A:652:ASN:HB3	1.97	0.46
3:A:782:PRO:HB2	3:A:784:GLU:CD	2.41	0.46
3:A:849:GLY:O	3:A:850:ASP:OD1	2.33	0.46
3:A:932:VAL:O	3:A:935:LYS:N	2.49	0.46
3:A:943:THR:OG1	3:A:945:LYS:HG2	2.16	0.46
3:A:960:TYR:HD1	3:A:960:TYR:HA	1.51	0.46
3:A:990:ILE:O	3:A:990:ILE:HG23	2.13	0.46
3:A:996:GLY:HA3	3:A:997:PRO:HD2	1.57	0.46
3:A:1006:LEU:O	3:A:1008:GLY:N	2.49	0.46
4:B:191:ALA:O	4:B:194:GLY:N	2.48	0.46
4:B:356:THR:O	4:B:357:ILE:C	2.58	0.46
4:B:444:ASP:N	4:B:996:LEU:HD13	2.31	0.46
4:B:499:LYS:O	4:B:500:ASN:C	2.59	0.46
4:B:520:GLY:HA2	4:B:806:GLU:HA	1.98	0.46
4:B:621:TYR:CZ	4:B:774:LEU:O	2.68	0.46
4:B:645:LEU:CB	4:B:662:LYS:HD3	2.43	0.46
4:B:691:LEU:HD23	4:B:691:LEU:H	1.80	0.46
4:B:978:ALA:HB2	4:B:997:LEU:HD12	1.98	0.46
4:B:1129:TYR:O	4:B:1130:GLN:NE2	2.48	0.46
5:C:83:LYS:HG2	5:C:166:ILE:CD1	2.44	0.46
5:D:111:HIS:H	5:D:111:HIS:HD2	1.63	0.46
5:D:201:ASN:N	5:D:201:ASN:OD1	2.43	0.46
5:D:209:ALA:O	5:D:212:SER:N	2.49	0.46
6:E:175:TYR:C	6:E:177:GLU:H	2.23	0.46
6:E:226:LYS:O	6:E:229:ARG:HG2	2.16	0.46
6:E:254:PRO:CG	6:E:255:ASP:N	2.60	0.46
6:E:391:ARG:HE	6:E:391:ARG:HB3	1.37	0.46
6:E:486:GLU:O	6:E:487:ALA:O	2.33	0.46
6:E:526:GLY:O	6:E:527:ALA:C	2.59	0.46
6:E:539:ASP:O	6:E:542:ILE:HB	2.16	0.46
6:E:588:TYR:CZ	6:E:591:ARG:NH2	2.84	0.46
8:G:82:ILE:HD13	8:G:180:PHE:HD1	1.78	0.46
8:G:121:SER:CA	8:G:127:ASP:HA	2.37	0.46
9:Y:154:LEU:O	9:Y:155:ILE:C	2.59	0.46
1:1:63:DG:H2"	1:1:64:DT:C6	2.50	0.46
1:1:75:DA:C4	1:1:76:DC:C5	3.03	0.46
1:1:95:DT:C2	1:1:96:DC:C6	3.04	0.46
1:1:95:DT:N3	2:2:31:DA:C6	2.84	0.46
1:1:105:DG:C8	8:G:164:ARG:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:105:DG:O5'	1:1:105:DG:H8	1.99	0.46
1:1:106:DG:C6	1:1:107:DG:C6	3.04	0.46
2:2:33:DA:N3	2:2:34:DA:H1'	2.30	0.46
3:A:56:ILE:HG22	3:A:57:THR:N	2.31	0.46
3:A:190:THR:O	3:A:191:ARG:C	2.59	0.46
3:A:205:SER:O	3:A:209:ILE:HG12	2.16	0.46
3:A:289:VAL:HG22	3:A:291:VAL:O	2.16	0.46
3:A:352:THR:O	3:A:353:VAL:C	2.57	0.46
3:A:394:ALA:O	3:A:395:GLU:C	2.54	0.46
3:A:620:LYS:CG	3:A:630:GLN:HB3	2.46	0.46
3:A:778:GLU:HB3	3:A:779:SER:H	1.61	0.46
3:A:834:MET:HE2	3:A:834:MET:HB3	1.71	0.46
4:B:8:VAL:HG23	6:E:517:ALA:HB1	1.98	0.46
4:B:26:THR:C	4:B:28:ARG:N	2.71	0.46
4:B:66:LEU:HD12	4:B:66:LEU:HA	1.28	0.46
4:B:71:GLU:O	4:B:72:GLU:C	2.57	0.46
4:B:101:THR:HG23	4:B:101:THR:H	1.50	0.46
4:B:190:THR:CG2	4:B:191:ALA:N	2.63	0.46
4:B:260:ARG:HH11	4:B:261:ASN:N	2.14	0.46
4:B:285:PRO:HA	4:B:298:CYS:SG	2.55	0.46
4:B:385:MET:C	4:B:387:LEU:N	2.73	0.46
4:B:520:GLY:O	4:B:541:THR:HG21	2.16	0.46
4:B:604:LEU:HD12	4:B:630:LEU:C	2.40	0.46
4:B:639:VAL:O	4:B:639:VAL:HG13	2.14	0.46
4:B:730:SER:HB2	4:B:735:ALA:HB3	1.98	0.46
4:B:1138:ASP:HA	4:B:1141:ILE:CD1	2.45	0.46
4:B:1208:ILE:HA	4:B:1208:ILE:HD13	1.27	0.46
5:C:54:THR:HG21	5:C:143:GLU:OE2	2.16	0.46
5:C:92:SER:HB2	5:C:144:ARG:HB3	1.97	0.46
6:E:29:THR:HB	6:E:35:VAL:HG12	1.97	0.46
6:E:167:TRP:O	6:E:170:ILE:HB	2.16	0.46
6:E:226:LYS:O	6:E:229:ARG:CG	2.64	0.46
6:E:240:LYS:HG2	6:E:243:TRP:CD2	2.50	0.46
6:E:422:VAL:HG13	6:E:423:ILE:N	2.27	0.46
6:E:520:LEU:HD23	6:E:521:THR:N	2.31	0.46
6:E:581:ASP:C	6:E:583:SER:H	2.22	0.46
6:E:591:ARG:O	6:E:592:ARG:HB2	2.14	0.46
8:G:125:GLU:HG3	8:G:127:ASP:H	1.81	0.46
9:X:37:PRO:HD3	9:X:91:HIS:CB	2.46	0.46
9:X:82:THR:H	9:X:86:SER:HB2	1.81	0.46
9:X:205:ILE:HD11	9:X:208:LYS:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:27:THR:HA	9:Y:98:VAL:HB	1.96	0.46
1:1:70:DC:H2"	1:1:71:DT:OP2	2.16	0.46
1:1:79:DA:C6	1:1:80:DA:C5	3.04	0.46
2:2:7:DT:C1'	2:2:8:DC:H5'	2.45	0.46
2:2:50:DG:OP1	9:X:176:HIS:CE1	2.69	0.46
2:2:63:DC:H5	9:Y:187:ARG:HH11	1.64	0.46
2:2:68:DT:C3'	2:2:68:DT:C6	2.99	0.46
3:A:38:PHE:O	3:A:41:PHE:HB3	2.16	0.46
3:A:141:ILE:HG22	3:A:404:ALA:HA	1.97	0.46
3:A:181:ASP:O	3:A:182:LEU:HB2	2.16	0.46
3:A:225:LYS:HA	3:A:225:LYS:HD2	1.56	0.46
3:A:251:LEU:O	3:A:252:GLY:O	2.34	0.46
3:A:326:ARG:HG3	3:A:331:LEU:HD21	1.97	0.46
3:A:331:LEU:O	3:A:332:LEU:C	2.58	0.46
3:A:425:SER:CA	3:A:484:GLU:HG2	2.45	0.46
3:A:513:ARG:O	3:A:514:GLN:C	2.57	0.46
3:A:552:ARG:CZ	3:A:555:MET:HE1	2.45	0.46
3:A:559:MET:C	3:A:561:ARG:N	2.73	0.46
3:A:606:ILE:HG22	3:A:608:VAL:HG11	1.98	0.46
3:A:736:ILE:HD12	3:A:736:ILE:HG23	1.67	0.46
3:A:837:ARG:HD2	3:A:837:ARG:HA	1.45	0.46
3:A:940:ARG:O	3:A:942:GLU:N	2.49	0.46
3:A:963:ARG:HE	3:A:963:ARG:HB2	1.11	0.46
4:B:53:VAL:HG22	4:B:164:ARG:HE	1.81	0.46
4:B:288:CYS:CB	4:B:295:CYS:SG	2.92	0.46
4:B:379:VAL:CG2	4:B:380:GLU:OE1	2.59	0.46
4:B:452:GLU:N	4:B:483:LEU:O	2.49	0.46
4:B:526:PRO:CB	4:B:536:GLU:H	2.29	0.46
4:B:577:THR:HB	4:B:578:PRO:HD2	1.97	0.46
4:B:618:LYS:HG2	4:B:619:LEU:HD23	1.98	0.46
4:B:653:TYR:CE1	4:B:671:VAL:CA	2.98	0.46
4:B:698:GLU:N	4:B:698:GLU:CD	2.74	0.46
4:B:743:GLU:C	4:B:744:PHE:HD1	2.24	0.46
4:B:822:LEU:HA	4:B:826:ASP:CA	2.37	0.46
4:B:831:GLN:CG	4:B:833:VAL:HG13	2.46	0.46
4:B:900:LEU:O	4:B:901:ARG:CG	2.64	0.46
4:B:901:ARG:C	4:B:903:SER:N	2.74	0.46
4:B:1078:PRO:C	4:B:1080:GLY:N	2.73	0.46
4:B:1159:ASP:C	4:B:1161:THR:H	2.24	0.46
4:B:1217:THR:O	4:B:1220:LEU:HB3	2.15	0.46
5:C:60:GLY:C	5:C:61:VAL:HG23	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:151:VAL:H	5:C:167:ASP:HB2	1.81	0.46
5:D:62:SER:O	5:D:164:LEU:HD11	2.16	0.46
6:E:104:GLY:C	6:E:251:VAL:HB	2.41	0.46
6:E:443:ALA:HB3	6:E:492:LEU:HA	1.98	0.46
6:E:464:PHE:O	6:E:465:ASN:C	2.56	0.46
8:G:118:GLU:HA	8:G:121:SER:HB3	1.98	0.46
8:G:120:LEU:HA	8:G:120:LEU:HD12	1.58	0.46
8:G:218:ILE:C	8:G:220:ARG:N	2.68	0.46
8:G:231:LEU:CD1	8:G:279:SER:O	2.64	0.46
9:X:34:ILE:HG22	9:X:35:PHE:HD2	1.81	0.46
9:X:78:LEU:CD2	9:X:88:ARG:CD	2.86	0.46
9:X:166:ASP:CG	9:X:213:HIS:HA	2.41	0.46
1:1:68:DT:H2'	1:1:69:DA:N7	2.31	0.45
1:1:77:DA:C2	2:2:50:DG:N3	2.84	0.45
1:1:79:DA:C2	1:1:80:DA:C4	3.04	0.45
1:1:96:DC:C2	1:1:97:DT:C4	3.04	0.45
1:1:99:DT:H6	1:1:99:DT:H2'	1.42	0.45
1:1:106:DG:OP2	1:1:106:DG:H2'	2.16	0.45
1:1:113:DT:H2"	1:1:114:DC:C5'	2.45	0.45
2:2:6:DA:H8	2:2:6:DA:P	2.39	0.45
2:2:7:DT:N3	2:2:8:DC:C4	2.84	0.45
3:A:130:ILE:C	3:A:132:GLY:N	2.70	0.45
3:A:184:TRP:HA	3:A:194:SER:O	2.16	0.45
3:A:214:ARG:NH2	3:A:311:ILE:HG13	2.30	0.45
3:A:257:LEU:C	3:A:257:LEU:HD12	2.41	0.45
3:A:281:LEU:HB3	3:A:283:LEU:HD21	1.97	0.45
3:A:335:GLN:O	3:A:336:VAL:C	2.57	0.45
3:A:444:ILE:HD13	3:A:444:ILE:HA	1.46	0.45
3:A:513:ARG:N	3:A:513:ARG:CD	2.78	0.45
3:A:547:HIS:CE1	4:B:166:GLY:HA3	2.51	0.45
3:A:595:ASP:OD2	3:A:618:SER:CB	2.60	0.45
3:A:599:VAL:HG13	3:A:615:PRO:HD3	1.97	0.45
3:A:600:TYR:CD2	3:A:607:ARG:NE	2.85	0.45
3:A:616:THR:OG1	3:A:632:GLY:HA2	2.16	0.45
3:A:665:ALA:C	3:A:667:GLN:H	2.24	0.45
3:A:696:TYR:CD1	3:A:864:ARG:HB2	2.52	0.45
3:A:717:ILE:HA	3:A:717:ILE:HD13	1.32	0.45
3:A:903:LEU:HD12	3:A:903:LEU:HA	1.49	0.45
3:A:958:MET:O	3:A:959:VAL:CG1	2.63	0.45
3:A:1033:THR:O	3:A:1036:GLU:HG3	2.16	0.45
4:B:103:GLU:CG	4:B:424:LEU:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:223:ARG:HD2	4:B:223:ARG:N	2.31	0.45
4:B:359:LEU:HD12	4:B:387:LEU:HA	1.99	0.45
4:B:388:GLU:HB2	4:B:397:PRO:CG	2.46	0.45
4:B:463:LYS:CE	4:B:466:ARG:N	2.78	0.45
4:B:526:PRO:HD2	4:B:859:VAL:CG2	2.46	0.45
4:B:597:ARG:HD3	4:B:788:VAL:CG1	2.27	0.45
4:B:616:LYS:C	4:B:618:LYS:N	2.71	0.45
4:B:637:HIS:N	4:B:638:GLU:CD	2.74	0.45
4:B:714:LEU:H	4:B:717:GLN:N	2.12	0.45
4:B:843:ASP:CG	4:B:855:THR:HG21	2.40	0.45
4:B:915:LYS:CB	4:B:916:VAL:HG23	2.46	0.45
5:D:70:GLY:O	5:D:131:ALA:N	2.43	0.45
5:D:105:THR:O	5:D:130:ILE:N	2.36	0.45
6:E:116:TRP:C	6:E:118:LEU:H	2.23	0.45
6:E:156:LEU:HD21	6:E:170:ILE:HG23	1.98	0.45
6:E:225:ILE:HA	6:E:228:LEU:HD23	1.97	0.45
6:E:374:GLY:O	6:E:375:LEU:HB2	2.17	0.45
8:G:263:ALA:C	8:G:266:MET:H	2.23	0.45
9:X:47:LEU:CB	9:X:69:LEU:HD23	2.41	0.45
9:X:56:ARG:CZ	9:X:129:ARG:HH21	2.29	0.45
9:X:218:LEU:C	9:X:220:ARG:N	2.74	0.45
1:1:69:DA:C1’	1:1:70:DC:H5’	2.44	0.45
1:1:72:DT:H4’	1:1:72:DT:OP1	2.16	0.45
1:1:114:DC:H1’	1:1:115:DA:C4	2.50	0.45
2:2:11:DT:H5’	2:2:11:DT:C6	2.51	0.45
3:A:26:LEU:C	3:A:27:LEU:HD22	2.41	0.45
3:A:263:ASP:O	3:A:265:LYS:N	2.48	0.45
3:A:265:LYS:CG	3:A:266:ARG:HG3	2.45	0.45
3:A:339:GLY:O	3:A:340:LEU:C	2.56	0.45
3:A:373:ALA:O	3:A:376:GLU:HB3	2.17	0.45
3:A:374:ILE:HG21	3:A:374:ILE:HD13	1.52	0.45
3:A:465:PRO:HD2	3:A:475:GLN:HE21	1.81	0.45
3:A:520:THR:O	3:A:522:GLU:OE1	2.34	0.45
3:A:543:PRO:HG2	3:A:856:HIS:NE2	2.31	0.45
3:A:586:SER:CB	3:A:588:MET:H	2.29	0.45
3:A:591:VAL:O	3:A:591:VAL:HG23	2.16	0.45
3:A:648:ASP:HB3	3:A:719:ILE:O	2.16	0.45
3:A:993:ARG:NH1	6:E:355:ASP:HB3	2.31	0.45
3:A:1078:GLN:HE22	6:E:25:TRP:HE1	1.64	0.45
4:B:91:PHE:CE1	4:B:156:ASP:OD2	2.67	0.45
4:B:195:TYR:HD1	4:B:195:TYR:HA	1.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:257:ILE:HD12	4:B:257:ILE:HG23	1.44	0.45
4:B:463:LYS:HE2	4:B:466:ARG:H	1.77	0.45
4:B:496:LEU:CA	4:B:511:ALA:HA	2.24	0.45
4:B:524:ARG:HB3	4:B:538:GLU:OE2	2.16	0.45
4:B:649:GLU:OE2	4:B:650:ASP:OD1	2.35	0.45
4:B:888:GLN:OE1	4:B:894:VAL:CG1	2.64	0.45
4:B:966:ILE:O	4:B:966:ILE:HG23	2.16	0.45
4:B:1241:ILE:O	4:B:1241:ILE:HG23	2.13	0.45
5:C:28:LEU:HD12	5:C:193:ARG:HA	1.98	0.45
5:C:57:ARG:HB2	5:C:139:GLU:O	2.16	0.45
5:C:182:GLU:HA	5:C:191:LYS:O	2.16	0.45
5:D:11:SER:HA	5:D:20:TYR:O	2.17	0.45
5:D:126:TYR:CE2	5:D:127:VAL:O	2.69	0.45
5:D:151:VAL:HG21	5:D:165:GLN:CG	2.46	0.45
5:D:200:THR:O	5:D:200:THR:HG23	2.13	0.45
6:E:81:HIS:CE1	6:E:93:VAL:HG21	2.52	0.45
6:E:370:ILE:O	6:E:371:HIS:CG	2.69	0.45
6:E:429:MET:HB2	6:E:429:MET:HE2	1.41	0.45
6:E:486:GLU:N	6:E:486:GLU:CD	2.62	0.45
6:E:537:SER:C	6:E:539:ASP:H	2.25	0.45
7:F:39:ALA:HB2	7:F:61:ALA:HB2	1.97	0.45
7:F:43:ARG:O	7:F:47:PHE:HA	2.17	0.45
8:G:211:THR:O	8:G:212:TRP:C	2.54	0.45
9:X:43:ARG:CG	9:X:44:VAL:N	2.78	0.45
9:X:191:THR:O	9:X:194:LEU:HB3	2.17	0.45
9:Y:26:GLU:H	9:Y:26:GLU:CD	2.22	0.45
9:Y:46:PHE:N	9:Y:101:LEU:O	2.48	0.45
9:Y:206:HIS:HB2	9:Y:209:LYS:HG2	1.97	0.45
1:1:78:DA:H1'	1:1:79:DA:OP1	2.16	0.45
2:2:49:DT:OP2	9:X:176:HIS:CD2	2.69	0.45
2:2:64:DA:H2"	2:2:65:DA:C8	2.52	0.45
3:A:57:THR:HA	3:A:63:LEU:O	2.16	0.45
3:A:72:TYR:CD1	3:A:74:LEU:HD11	2.44	0.45
3:A:154:ASP:CG	3:A:158:ARG:N	2.63	0.45
3:A:294:SER:O	3:A:295:GLY:C	2.60	0.45
3:A:328:VAL:O	3:A:329:GLY:O	2.34	0.45
3:A:335:GLN:HE22	3:A:373:ALA:HB1	1.79	0.45
3:A:393:LEU:HD12	3:A:394:ALA:N	2.28	0.45
3:A:393:LEU:O	3:A:394:ALA:C	2.54	0.45
3:A:444:ILE:HG23	3:A:444:ILE:HD12	1.36	0.45
3:A:609:ARG:CZ	3:A:637:TYR:O	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:720:GLU:OE2	3:A:720:GLU:C	2.59	0.45
3:A:957:ILE:HD13	3:A:974:ILE:HG13	1.98	0.45
3:A:1010:ALA:HB3	3:A:1011:GLN:OE1	2.15	0.45
3:A:1024:ALA:O	3:A:1028:PHE:CD2	2.70	0.45
4:B:104:ALA:HA	4:B:107:ASP:OD2	2.17	0.45
4:B:235:LEU:O	4:B:238:ARG:N	2.49	0.45
4:B:492:PRO:HD3	4:B:895:ARG:HH22	1.81	0.45
4:B:522:VAL:CA	4:B:863:ASP:O	2.65	0.45
4:B:692:LEU:HD22	4:B:736:LEU:C	2.42	0.45
4:B:766:ILE:HG22	4:B:832:LEU:CD2	2.43	0.45
4:B:1038:VAL:HG13	4:B:1039:VAL:H	1.81	0.45
4:B:1049:ILE:HG22	4:B:1062:PRO:O	2.17	0.45
4:B:1107:TYR:CZ	4:B:1174:GLU:CG	2.88	0.45
4:B:1114:LEU:HD13	4:B:1192:PRO:HB2	1.98	0.45
5:C:132:GLU:HB3	5:C:133:GLY:H	1.63	0.45
5:D:122:ASP:O	5:D:123:PRO:O	2.35	0.45
5:D:218:VAL:HG23	5:D:218:VAL:H	1.57	0.45
6:E:329:ARG:HB3	6:E:330:PRO:HD2	1.97	0.45
6:E:397:MET:HE2	6:E:397:MET:HB3	1.74	0.45
6:E:518:TYR:O	6:E:519:TYR:C	2.56	0.45
8:G:183:LEU:HA	8:G:183:LEU:HD23	1.55	0.45
8:G:274:ARG:O	8:G:277:ALA:HB3	2.16	0.45
9:Y:43:ARG:HD2	9:Y:105:ILE:HG13	1.96	0.45
9:Y:125:GLY:O	9:Y:126:LEU:C	2.59	0.45
9:Y:129:ARG:O	9:Y:133:THR:HG23	2.16	0.45
1:1:97:DT:H1'	1:1:98:DG:C8	2.52	0.45
1:1:122:DC:N4	2:2:3:DT:C5	2.84	0.45
2:2:4:DG:H4'	2:2:5:DC:OP1	2.16	0.45
2:2:35:DA:C2	2:2:36:DT:C2	3.05	0.45
3:A:183:VAL:HA	3:A:184:TRP:CD1	2.52	0.45
3:A:287:ASP:O	3:A:288:THR:OG1	2.29	0.45
3:A:566:LEU:HB2	3:A:569:PRO:HG3	1.98	0.45
3:A:617:ALA:C	3:A:619:GLY:N	2.72	0.45
3:A:620:LYS:CD	3:A:630:GLN:HB3	2.47	0.45
3:A:702:ILE:HD11	3:A:860:GLY:HA3	1.98	0.45
3:A:737:THR:OG1	3:A:739:GLU:C	2.59	0.45
3:A:894:ASN:O	3:A:897:GLN:HG2	2.15	0.45
3:A:937:GLN:O	3:A:938:GLU:C	2.51	0.45
3:A:1036:GLU:C	3:A:1038:LEU:N	2.67	0.45
4:B:290:ALA:HB2	4:B:295:CYS:HA	1.99	0.45
4:B:359:LEU:HD22	4:B:384:ILE:O	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:507:ASN:C	4:B:508:GLY:O	2.57	0.45
4:B:525:LEU:N	4:B:859:VAL:HG11	2.31	0.45
4:B:742:VAL:HG23	4:B:744:PHE:CZ	2.50	0.45
4:B:851:GLY:HA2	4:B:876:ILE:HB	1.98	0.45
4:B:1016:GLU:CD	4:B:1016:GLU:C	2.85	0.45
4:B:1091:HIS:CG	4:B:1092:GLU:H	2.35	0.45
5:C:29:GLU:HB2	5:C:32:GLN:NE2	2.31	0.45
5:C:57:ARG:HE	5:C:163:PHE:HA	1.80	0.45
5:C:200:THR:O	5:C:200:THR:HG23	2.13	0.45
5:D:54:THR:HG21	5:D:143:GLU:OE2	2.16	0.45
5:D:121:ILE:N	5:D:121:ILE:HD13	2.31	0.45
5:D:207:GLN:C	5:D:209:ALA:N	2.72	0.45
6:E:355:ASP:O	6:E:356:TYR:C	2.59	0.45
6:E:423:ILE:HG21	6:E:423:ILE:HD13	1.41	0.45
6:E:424:GLU:C	6:E:426:HIS:N	2.70	0.45
6:E:492:LEU:HD12	6:E:492:LEU:HA	1.31	0.45
6:E:613:VAL:CG1	6:E:614:ILE:N	2.74	0.45
8:G:127:ASP:O	8:G:128:PRO:C	2.58	0.45
9:X:47:LEU:HD21	9:X:69:LEU:C	2.42	0.45
9:Y:196:ASP:CA	9:Y:200:LYS:HB2	2.46	0.45
1:1:58:DA:H2	2:2:68:DT:O2	1.99	0.45
1:1:84:DA:C6	2:2:41:DC:C4	3.05	0.45
1:1:114:DC:H6	1:1:114:DC:H2'	1.63	0.45
3:A:60:THR:C	3:A:62:LYS:N	2.73	0.45
3:A:271:ARG:HA	3:A:290:ARG:NH2	2.28	0.45
3:A:343:LEU:HD23	3:A:344:GLU:N	2.31	0.45
3:A:371:VAL:O	3:A:375:LYS:HB3	2.17	0.45
3:A:412:ARG:HD3	3:A:439:PRO:HB2	1.98	0.45
3:A:452:ARG:HD3	3:A:479:TYR:CE2	2.52	0.45
3:A:620:LYS:HG2	3:A:630:GLN:C	2.41	0.45
3:A:628:THR:O	3:A:633:GLN:HG2	2.17	0.45
3:A:661:GLU:N	3:A:661:GLU:OE1	2.49	0.45
3:A:688:VAL:O	3:A:688:VAL:HG13	2.01	0.45
3:A:703:LEU:HD13	3:A:703:LEU:HA	1.41	0.45
3:A:1093:ALA:O	3:A:1095:GLY:N	2.49	0.45
3:A:1097:SER:C	3:A:1098:LEU:HG	2.40	0.45
4:B:45:THR:C	4:B:47:ALA:N	2.70	0.45
4:B:59:PRO:HB3	4:B:109:VAL:CA	2.45	0.45
4:B:72:GLU:CA	4:B:418:VAL:HG12	2.44	0.45
4:B:124:MET:HG2	6:E:518:TYR:CD1	2.52	0.45
4:B:168:THR:O	4:B:169:VAL:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:227:GLU:O	4:B:230:LYS:O	2.34	0.45
4:B:443:LYS:HZ2	4:B:974:VAL:HG13	1.82	0.45
4:B:562:TYR:C	4:B:564:ILE:N	2.75	0.45
5:C:57:ARG:HB2	5:C:139:GLU:CD	2.42	0.45
5:C:122:ASP:O	5:C:123:PRO:O	2.35	0.45
5:D:103:GLY:N	5:D:133:GLY:HA2	2.32	0.45
6:E:204:GLN:O	6:E:208:SER:N	2.49	0.45
6:E:213:ILE:N	6:E:213:ILE:HD13	2.30	0.45
6:E:344:ARG:HD3	6:E:348:ASN:HB2	1.97	0.45
6:E:464:PHE:N	6:E:464:PHE:CD1	2.76	0.45
6:E:530:GLY:HA2	6:E:533:LYS:HE3	1.98	0.45
6:E:577:THR:HG22	6:E:579:ASN:OD1	2.17	0.45
6:E:591:ARG:NH1	6:E:591:ARG:HB2	2.32	0.45
6:E:620:GLN:O	6:E:623:LEU:N	2.27	0.45
8:G:210:ALA:O	8:G:214:ILE:HG12	2.17	0.45
8:G:284:ILE:HG22	8:G:285:SER:N	2.28	0.45
8:G:294:GLU:OE1	8:G:294:GLU:N	2.48	0.45
8:G:320:GLU:OE2	8:G:321:ASP:OD1	2.35	0.45
9:X:27:THR:CA	9:X:98:VAL:HB	2.47	0.45
9:X:112:LEU:HG	9:X:119:SER:CA	2.47	0.45
9:Y:88:ARG:O	9:Y:90:TYR:N	2.49	0.45
9:Y:142:HIS:HE1	9:Y:144:ASP:OD2	2.00	0.45
9:Y:166:ASP:CG	9:Y:213:HIS:HA	2.41	0.45
1:1:69:DA:H2"	1:1:70:DC:H2'	1.99	0.45
1:1:117:DG:C4	1:1:118:DG:O4'	2.69	0.45
2:2:40:DC:C2	2:2:41:DC:C5	3.04	0.45
2:2:40:DC:H4'	2:2:41:DC:H5'	1.99	0.45
2:2:42:DT:H6	2:2:43:DG:C5'	2.29	0.45
3:A:166:ILE:C	3:A:167:PRO:O	2.55	0.45
3:A:167:PRO:HG3	3:A:170:GLY:O	2.16	0.45
3:A:460:GLU:OE2	3:A:479:TYR:HA	2.17	0.45
3:A:707:ARG:CA	3:A:710:GLN:OE1	2.64	0.45
3:A:962:GLY:O	3:A:963:ARG:C	2.55	0.45
3:A:1015:GLN:HG3	6:E:357:SER:OG	2.17	0.45
3:A:1085:ALA:HB1	3:A:1098:LEU:HD21	1.98	0.45
3:A:1098:LEU:C	3:A:1099:ASP:CG	2.83	0.45
4:B:86:THR:C	4:B:89:GLU:HB2	2.39	0.45
4:B:268:LEU:O	4:B:269:ALA:C	2.56	0.45
4:B:541:THR:HB	4:B:760:GLN:H	1.82	0.45
4:B:1231:TRP:NE1	6:E:11:TYR:CG	2.79	0.45
5:C:54:THR:HA	5:C:166:ILE:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:98:ARG:HA	5:C:98:ARG:HD3	1.62	0.45
5:C:204:ILE:HD13	5:C:204:ILE:HA	1.69	0.45
5:C:227:ILE:CD1	5:D:5:GLN:CB	2.95	0.45
5:D:60:GLY:C	5:D:61:VAL:HG23	2.41	0.45
5:D:223:PRO:HA	5:D:227:ILE:HG12	1.99	0.45
6:E:123:SER:O	6:E:126:SER:N	2.50	0.45
6:E:140:VAL:C	6:E:142:PHE:N	2.71	0.45
6:E:212:GLU:HB2	6:E:213:ILE:HD13	1.99	0.45
6:E:225:ILE:CG1	6:E:226:LYS:N	2.80	0.45
6:E:565:GLU:OE1	6:E:566:SER:C	2.60	0.45
6:E:583:SER:HA	6:E:585:THR:OG1	2.17	0.45
6:E:588:TYR:CE2	6:E:591:ARG:NH2	2.85	0.45
8:G:120:LEU:O	8:G:124:LEU:HD23	2.17	0.45
8:G:369:GLU:OE1	8:G:370:ALA:N	2.50	0.45
9:X:35:PHE:HD1	9:X:36:PHE:O	1.99	0.45
9:X:112:LEU:HG	9:X:119:SER:CB	2.47	0.45
9:X:197:LEU:HD22	9:X:205:ILE:HG22	1.99	0.45
9:Y:48:LEU:HG	9:Y:101:LEU:H	1.79	0.45
1:1:118:DG:H1'	1:1:119:DA:C3'	2.46	0.45
1:1:118:DG:N3	1:1:119:DA:OP1	2.50	0.45
2:2:31:DA:C2	2:2:32:DA:N9	2.85	0.45
2:2:57:DT:C4'	2:2:58:DA:H5'	2.44	0.45
3:A:188:ASP:O	3:A:190:THR:N	2.49	0.45
3:A:300:ALA:O	3:A:302:ASP:N	2.49	0.45
3:A:357:GLU:O	3:A:358:VAL:C	2.60	0.45
3:A:396:LEU:C	3:A:398:HIS:H	2.24	0.45
3:A:470:ARG:CD	3:A:502:TYR:CZ	2.94	0.45
3:A:669:LEU:HD23	3:A:669:LEU:HA	1.32	0.45
3:A:734:GLU:C	3:A:735:GLU:OE1	2.60	0.45
3:A:970:ARG:HB3	4:B:48:GLY:O	2.17	0.45
3:A:1079:SER:O	3:A:1080:LEU:HG	2.17	0.45
4:B:170:THR:H	4:B:170:THR:HG23	1.15	0.45
4:B:367:THR:HA	4:B:370:THR:CG2	2.46	0.45
4:B:440:LYS:HD2	4:B:1000:GLU:CB	2.46	0.45
4:B:524:ARG:HG2	4:B:538:GLU:OE2	2.16	0.45
4:B:526:PRO:CB	4:B:535:ARG:HB3	2.43	0.45
4:B:588:VAL:HG11	4:B:797:LEU:HG	1.97	0.45
4:B:630:LEU:CB	4:B:743:GLU:OE1	2.64	0.45
4:B:664:ILE:HA	4:B:664:ILE:HD13	1.66	0.45
4:B:706:THR:C	4:B:727:TYR:HE1	2.24	0.45
4:B:928:LEU:HD21	4:B:934:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1129:TYR:CB	4:B:1130:GLN:HE21	2.30	0.45
4:B:1223:ALA:HB1	6:E:14:ILE:HG21	1.99	0.45
4:B:1242:GLY:O	4:B:1243:ARG:C	2.55	0.45
5:C:217:LEU:HD23	5:C:217:LEU:HA	1.28	0.45
5:D:218:VAL:O	5:D:219:ASP:C	2.57	0.45
6:E:392:LEU:O	6:E:394:ARG:N	2.50	0.45
6:E:402:LYS:O	6:E:403:ALA:C	2.58	0.45
6:E:423:ILE:O	6:E:426:HIS:HB3	2.17	0.45
6:E:535:PHE:CE2	6:E:556:VAL:HG11	2.52	0.45
8:G:191:LEU:HD12	8:G:214:ILE:HD11	1.98	0.45
8:G:290:ILE:HG23	8:G:297:ARG:O	2.17	0.45
9:X:130:ILE:O	9:X:131:LEU:C	2.60	0.45
9:Y:47:LEU:N	9:Y:100:LEU:CD1	2.79	0.45
1:1:74:DT:H1'	1:1:75:DA:H5'	1.97	0.45
1:1:99:DT:H2'	1:1:99:DT:O5'	2.15	0.45
1:1:106:DG:C2	1:1:107:DG:C6	3.05	0.45
1:1:121:DG:O6	2:2:4:DG:O6	2.35	0.45
2:2:33:DA:C4	2:2:34:DA:C8	3.04	0.45
3:A:90:THR:O	3:A:91:TYR:C	2.59	0.45
3:A:287:ASP:C	3:A:289:VAL:N	2.68	0.45
3:A:420:ARG:O	3:A:421:ASP:OD1	2.35	0.45
3:A:455:GLN:HG2	3:A:456:TYR:CE1	2.52	0.45
3:A:671:ASP:OD1	3:A:671:ASP:N	2.33	0.45
3:A:694:GLU:CD	3:A:694:GLU:H	2.25	0.45
3:A:813:ARG:HG3	3:A:814:VAL:H	1.81	0.45
3:A:1091:THR:O	3:A:1092:GLN:C	2.57	0.45
4:B:16:LEU:C	4:B:16:LEU:CD2	2.69	0.45
4:B:79:ARG:HH12	4:B:373:GLY:HA2	1.82	0.45
4:B:147:MET:HB2	4:B:159:ILE:HD11	1.99	0.45
4:B:260:ARG:HH11	4:B:261:ASN:H	1.65	0.45
4:B:282:VAL:O	4:B:284:SER:N	2.48	0.45
4:B:359:LEU:HA	4:B:388:GLU:H	1.82	0.45
4:B:454:LYS:HB3	4:B:483:LEU:CD1	2.46	0.45
4:B:688:PRO:HD2	4:B:739:ARG:CG	2.42	0.45
4:B:720:THR:OG1	4:B:721:GLU:N	2.50	0.45
4:B:764:ARG:HA	4:B:807:HIS:CD2	2.52	0.45
4:B:856:SER:H	4:B:873:ARG:CD	2.30	0.45
4:B:872:ALA:O	4:B:873:ARG:HD2	2.17	0.45
4:B:1029:LEU:HB3	4:B:1083:LEU:CD2	2.44	0.45
4:B:1040:TYR:CZ	4:B:1047:ILE:HA	2.52	0.45
5:C:186:ASP:O	5:C:187:GLY:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:124:THR:O	5:D:125:GLN:C	2.57	0.45
6:E:70:GLU:HG2	6:E:77:LYS:HA	1.99	0.45
6:E:99:ARG:C	6:E:101:HIS:N	2.75	0.45
6:E:226:LYS:HD3	6:E:226:LYS:HA	1.58	0.45
6:E:249:ILE:HG23	6:E:249:ILE:HD12	1.17	0.45
6:E:292:ILE:O	6:E:292:ILE:CG2	2.64	0.45
6:E:433:ALA:HB1	6:E:434:PRO:HD2	1.98	0.45
6:E:480:SER:OG	6:E:480:SER:O	2.17	0.45
6:E:520:LEU:C	6:E:520:LEU:CD2	2.71	0.45
6:E:540:ASP:C	6:E:542:ILE:N	2.75	0.45
8:G:128:PRO:HB2	8:G:134:ALA:O	2.16	0.45
8:G:350:THR:HG23	8:G:353:GLU:H	1.81	0.45
9:Y:36:PHE:HD1	9:Y:91:HIS:CG	2.34	0.45
9:Y:43:ARG:HH21	9:Y:80:LEU:HD23	1.82	0.45
1:1:77:DA:C2	1:1:78:DA:N1	2.85	0.45
1:1:80:DA:C2'	1:1:81:DT:H6	2.30	0.45
1:1:85:DG:C6	2:2:40:DC:N3	2.85	0.45
1:1:94:DT:OP1	6:E:47:TYR:CZ	2.70	0.45
1:1:105:DG:C1'	8:G:86:LEU:HD11	2.47	0.45
1:1:119:DA:N1	2:2:6:DA:C5	2.85	0.45
2:2:8:DC:N1	2:2:9:DC:N4	2.65	0.45
2:2:42:DT:C2'	2:2:43:DG:C8	3.00	0.45
2:2:65:DA:C4	2:2:66:DA:C6	3.05	0.45
3:A:238:LEU:HA	3:A:242:LEU:HB2	1.99	0.45
3:A:238:LEU:C	3:A:242:LEU:HB3	2.42	0.45
3:A:310:ASP:O	3:A:310:ASP:OD2	2.34	0.45
3:A:328:VAL:O	3:A:330:GLU:N	2.50	0.45
3:A:571:ARG:CD	3:A:913:ARG:CD	2.95	0.45
3:A:579:GLU:OE2	3:A:679:GLU:HB2	2.17	0.45
3:A:597:ASP:CG	3:A:662:ARG:HA	2.33	0.45
3:A:1039:THR:C	3:A:1041:LYS:N	2.70	0.45
4:B:268:LEU:O	4:B:271:GLU:HG2	2.16	0.45
4:B:347:GLN:CD	4:B:356:THR:CG2	2.89	0.45
4:B:420:LYS:HA	4:B:420:LYS:HD3	1.42	0.45
4:B:512:GLU:CD	4:B:875:GLN:HB2	2.42	0.45
4:B:548:GLN:HA	4:B:827:VAL:CG1	2.46	0.45
4:B:771:VAL:HG13	4:B:771:VAL:O	2.17	0.45
4:B:789:GLU:OE1	4:B:789:GLU:HA	2.17	0.45
4:B:1012:PRO:HA	4:B:1015:GLU:HB3	1.98	0.45
5:C:69:PRO:O	5:C:71:VAL:HG12	2.17	0.45
5:C:112:PHE:HB3	5:C:140:PHE:HZ	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:134:GLY:C	5:C:135:LYS:HG3	2.42	0.45
5:D:83:LYS:HG2	5:D:166:ILE:CD1	2.44	0.45
5:D:99:LEU:HB3	5:D:138:MET:HB2	1.97	0.45
5:D:182:GLU:OE1	5:D:191:LYS:N	2.49	0.45
5:D:184:ARG:O	5:D:185:ALA:CB	2.64	0.45
6:E:49:THR:HG23	6:E:51:LYS:N	2.31	0.45
6:E:144:SER:C	6:E:145:TYR:HD1	2.23	0.45
6:E:248:VAL:O	6:E:249:ILE:HD13	2.17	0.45
6:E:423:ILE:HG12	6:E:446:PRO:HG2	1.98	0.45
7:F:18:ALA:O	7:F:21:LEU:HB3	2.17	0.45
8:G:89:ILE:CG1	8:G:90:GLY:N	2.77	0.45
8:G:185:GLN:N	8:G:185:GLN:OE1	2.50	0.45
9:X:43:ARG:HH22	9:X:103:ALA:HB3	1.81	0.45
9:X:144:ASP:O	9:X:148:ARG:CD	2.59	0.45
9:X:145:MET:HB3	9:X:183:ILE:HG21	1.96	0.45
9:Y:43:ARG:HB3	9:Y:105:ILE:HG13	1.99	0.45
9:Y:57:VAL:HG21	9:Y:91:HIS:HB3	1.98	0.45
9:Y:120:MET:HE3	9:Y:120:MET:HB3	1.69	0.45
9:Y:126:LEU:HD23	9:Y:126:LEU:C	2.41	0.45
9:Y:175:SER:HB3	9:Y:178:ALA:HB2	1.99	0.45
1:1:79:DA:H2"	1:1:80:DA:C2	2.52	0.45
1:1:105:DG:N9	8:G:86:LEU:HD11	2.32	0.45
2:2:34:DA:C6	2:2:35:DA:C5	3.05	0.45
2:2:42:DT:C4	2:2:43:DG:C2	3.05	0.45
3:A:30:LEU:H	3:A:30:LEU:HG	1.40	0.45
3:A:51:ASN:OD1	3:A:51:ASN:C	2.58	0.45
3:A:59:TYR:N	3:A:59:TYR:CD1	2.85	0.45
3:A:153:ILE:HG22	3:A:154:ASP:N	2.32	0.45
3:A:263:ASP:CG	3:A:265:LYS:HB3	2.42	0.45
3:A:419:VAL:H	3:A:419:VAL:HG22	1.48	0.45
3:A:421:ASP:O	3:A:423:HIS:N	2.48	0.45
3:A:579:GLU:C	3:A:579:GLU:OE1	2.59	0.45
3:A:703:LEU:N	3:A:703:LEU:CD2	2.74	0.45
3:A:799:VAL:O	3:A:799:VAL:HG12	2.17	0.45
3:A:818:ARG:HG3	3:A:837:ARG:HB2	1.99	0.45
3:A:871:MET:HB3	3:A:872:PRO:HD2	1.99	0.45
3:A:893:MET:CE	4:B:163:PHE:HD2	2.28	0.45
3:A:944:GLY:O	3:A:945:LYS:C	2.59	0.45
3:A:1085:ALA:H	6:E:13:LYS:HB3	1.82	0.45
4:B:70:GLU:CB	4:B:74:ARG:HH12	2.30	0.45
4:B:76:THR:HG21	4:B:94:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:77:GLU:C	4:B:80:TYR:H	2.25	0.45
4:B:99:ASN:CG	4:B:423:LEU:HB2	2.41	0.45
4:B:265:SER:O	4:B:268:LEU:HB3	2.17	0.45
4:B:463:LYS:CE	4:B:465:ASP:OD1	2.44	0.45
4:B:480:ILE:C	4:B:481:TRP:CD2	2.95	0.45
4:B:525:LEU:HA	4:B:859:VAL:HG11	1.99	0.45
4:B:645:LEU:HB2	4:B:662:LYS:CA	2.43	0.45
4:B:690:GLU:O	4:B:690:GLU:HG2	2.17	0.45
4:B:695:ASP:O	4:B:696:ASP:HB2	2.16	0.45
4:B:852:SER:N	4:B:876:ILE:HB	2.32	0.45
4:B:855:THR:CA	4:B:873:ARG:HB2	2.30	0.45
4:B:922:ILE:CD1	4:B:928:LEU:HD22	2.45	0.45
4:B:1078:PRO:CA	4:B:1100:LEU:CD1	2.94	0.45
4:B:1252:ASN:O	4:B:1253:THR:C	2.59	0.45
5:C:98:ARG:NH1	5:C:98:ARG:HG2	2.32	0.45
5:C:183:VAL:O	5:C:184:ARG:HB2	2.16	0.45
5:D:45:LEU:HA	5:D:45:LEU:HD23	1.33	0.45
5:D:58:ILE:HD13	5:D:58:ILE:HA	1.45	0.45
5:D:82:MET:HB3	5:D:82:MET:HE3	1.34	0.45
6:E:20:GLU:O	6:E:24:GLN:HB2	2.16	0.45
6:E:25:TRP:CE3	6:E:250:PRO:HB3	2.51	0.45
6:E:251:VAL:HA	6:E:276:TYR:OH	2.17	0.45
6:E:396:GLY:O	6:E:397:MET:C	2.60	0.45
7:F:29:TYR:O	7:F:31:ILE:N	2.50	0.45
9:X:27:THR:HA	9:X:98:VAL:HB	1.98	0.45
9:X:53:LYS:HZ2	9:X:68:LEU:HD22	1.82	0.45
9:X:180:ALA:O	9:X:183:ILE:N	2.50	0.45
9:Y:46:PHE:O	9:Y:100:LEU:HD12	2.17	0.45
9:Y:106:GLU:HA	9:Y:109:GLU:HG2	1.98	0.45
9:Y:152:PHE:CZ	9:Y:156:LEU:HD21	2.52	0.45
1:1:84:DA:N6	2:2:42:DT:H3	2.15	0.44
1:1:102:DA:H2'	1:1:102:DA:O5'	2.18	0.44
2:2:45:DA:C5	2:2:46:DT:C2	3.04	0.44
2:2:49:DT:H4'	2:2:50:DG:OP1	2.17	0.44
2:2:57:DT:H1'	2:2:58:DA:C5	2.50	0.44
2:2:57:DT:C1'	2:2:58:DA:C5	3.00	0.44
3:A:115:PHE:CD2	3:A:115:PHE:O	2.69	0.44
3:A:137:ILE:HD13	3:A:384:SER:HA	1.96	0.44
3:A:609:ARG:O	3:A:616:THR:OG1	2.32	0.44
3:A:756:ILE:HD13	3:A:819:LEU:HD21	1.99	0.44
3:A:958:MET:HB3	3:A:958:MET:HE3	1.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:993:ARG:NH2	3:A:997:PRO:O	2.50	0.44
3:A:1023:TRP:CE3	6:E:436:LEU:CD1	2.94	0.44
3:A:1074:MET:N	3:A:1074:MET:SD	2.70	0.44
4:B:19:TRP:CD1	4:B:23:HIS:CE1	3.05	0.44
4:B:111:THR:HG22	4:B:350:ARG:HD3	2.00	0.44
4:B:222:VAL:C	4:B:223:ARG:HD2	2.41	0.44
4:B:281:VAL:C	4:B:282:VAL:HG13	2.40	0.44
4:B:369:ARG:HD2	4:B:999:PHE:CD1	2.52	0.44
4:B:471:THR:HB	4:B:980:LEU:HD23	2.00	0.44
4:B:503:ARG:N	4:B:883:ILE:HD13	2.32	0.44
4:B:629:LEU:HA	4:B:629:LEU:HD12	1.81	0.44
4:B:638:GLU:HA	4:B:683:GLU:CA	2.41	0.44
4:B:638:GLU:OE1	4:B:638:GLU:N	2.50	0.44
4:B:980:LEU:HD23	4:B:980:LEU:H	1.82	0.44
4:B:994:LEU:HD23	4:B:994:LEU:HA	1.73	0.44
5:C:3:GLN:HE22	5:C:28:LEU:CA	2.29	0.44
5:D:79:ILE:HG21	5:D:79:ILE:HD13	1.61	0.44
5:D:156:GLU:HB2	5:D:157:GLU:OE2	2.17	0.44
6:E:36:VAL:HG13	6:E:37:GLY:N	2.32	0.44
6:E:95:GLU:CG	6:E:96:SER:H	2.04	0.44
6:E:173:GLN:HA	6:E:177:GLU:OE1	2.17	0.44
6:E:316:ASN:C	6:E:318:ARG:H	2.25	0.44
8:G:178:LEU:HD23	8:G:178:LEU:HA	1.79	0.44
8:G:356:GLN:HA	8:G:360:VAL:H	1.80	0.44
9:X:53:LYS:O	9:X:93:VAL:HB	2.17	0.44
9:Y:36:PHE:HA	9:Y:91:HIS:ND1	2.33	0.44
9:Y:202:MET:SD	9:Y:216:VAL:O	2.75	0.44
1:1:78:DA:N3	1:1:79:DA:C4	2.86	0.44
1:1:98:DG:H1'	1:1:99:DT:C5'	2.47	0.44
1:1:103:DA:H2"	8:G:165:LEU:CD1	2.47	0.44
1:1:104:DT:N1	8:G:165:LEU:HB2	2.32	0.44
1:1:107:DG:N2	1:1:108:DA:C2	2.85	0.44
2:2:39:DT:OP2	2:2:39:DT:H2'	2.17	0.44
2:2:44:DA:H4'	2:2:45:DA:H5'	1.99	0.44
2:2:45:DA:C6	2:2:46:DT:N3	2.85	0.44
3:A:96:TYR:HD2	3:A:113:GLU:OE1	2.00	0.44
3:A:232:GLU:O	3:A:235:LEU:HB3	2.18	0.44
3:A:340:LEU:HD23	3:A:340:LEU:HA	1.35	0.44
3:A:460:GLU:HG2	3:A:480:MET:O	2.17	0.44
3:A:553:ALA:O	3:A:554:LEU:C	2.54	0.44
3:A:696:TYR:OH	6:E:367:LYS:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:783:PRO:HG3	8:G:347:ARG:HG2	1.99	0.44
3:A:787:LEU:HA	3:A:787:LEU:HD23	1.13	0.44
3:A:868:ILE:HG21	3:A:868:ILE:HD13	1.49	0.44
3:A:1073:LEU:O	3:A:1074:MET:O	2.34	0.44
4:B:30:ALA:O	4:B:32:MET:N	2.49	0.44
4:B:82:ARG:HB3	4:B:84:GLU:OE2	2.17	0.44
4:B:82:ARG:O	4:B:83:GLY:C	2.57	0.44
4:B:211:GLU:OE1	4:B:290:ALA:HA	2.17	0.44
4:B:223:ARG:O	4:B:224:PRO:C	2.56	0.44
4:B:394:SER:CB	4:B:403:HIS:NE2	2.81	0.44
4:B:452:GLU:OE1	4:B:886:GLY:HA3	2.17	0.44
4:B:522:VAL:HB	4:B:862:GLY:H	1.82	0.44
4:B:582:VAL:HG22	4:B:586:GLN:HB2	1.99	0.44
4:B:601:GLY:CA	4:B:782:VAL:HG23	2.47	0.44
4:B:630:LEU:CA	4:B:743:GLU:HA	2.43	0.44
4:B:680:ILE:HG13	4:B:681:LEU:N	2.30	0.44
4:B:687:LYS:HG3	4:B:739:ARG:CG	2.46	0.44
4:B:906:ALA:N	4:B:967:ARG:HA	2.32	0.44
4:B:908:LEU:N	4:B:964:VAL:HB	2.26	0.44
4:B:937:SER:O	4:B:968:ALA:HA	2.18	0.44
5:C:25:LEU:HD22	5:C:28:LEU:HD11	1.99	0.44
5:D:20:TYR:O	5:D:21:SER:OG	2.34	0.44
5:D:165:GLN:HG2	5:D:166:ILE:N	2.29	0.44
6:E:145:TYR:CD2	6:E:186:VAL:HB	2.41	0.44
6:E:234:PHE:CD1	6:E:239:SER:HB3	2.52	0.44
6:E:265:GLY:HA2	8:G:278:LYS:NZ	2.32	0.44
6:E:362:ILE:O	6:E:362:ILE:HG22	2.12	0.44
6:E:454:ILE:O	6:E:455:GLN:C	2.51	0.44
6:E:477:VAL:O	6:E:477:VAL:HG13	2.09	0.44
6:E:535:PHE:CD2	6:E:541:VAL:HB	2.52	0.44
8:G:193:ARG:HA	8:G:193:ARG:HD2	1.45	0.44
8:G:374:ARG:NH2	8:G:377:ARG:HH12	2.15	0.44
9:X:51:ALA:HB2	9:X:160:PHE:CZ	2.50	0.44
9:X:64:ILE:CD1	9:X:66:VAL:HB	2.39	0.44
9:Y:194:LEU:O	9:Y:195:GLY:C	2.60	0.44
9:Y:195:GLY:O	9:Y:196:ASP:C	2.61	0.44
1:1:120:DT:O4	1:1:121:DG:C6	2.70	0.44
2:2:45:DA:OP2	2:2:45:DA:H3'	2.17	0.44
3:A:735:GLU:CA	3:A:772:LYS:CD	2.84	0.44
4:B:72:GLU:O	4:B:73:ILE:C	2.56	0.44
4:B:92:GLN:C	4:B:95:ILE:CG2	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:181:LYS:O	4:B:182:GLY:C	2.57	0.44
4:B:260:ARG:HA	4:B:260:ARG:HD2	1.48	0.44
4:B:280:VAL:CG2	4:B:281:VAL:N	2.76	0.44
4:B:302:SER:HB2	4:B:309:VAL:HG13	1.99	0.44
4:B:542:ALA:H	4:B:833:VAL:HA	1.83	0.44
4:B:548:GLN:CB	4:B:753:PRO:HB2	2.47	0.44
4:B:657:GLY:N	4:B:668:ASN:ND2	2.66	0.44
4:B:675:THR:CG2	4:B:683:GLU:HG3	2.48	0.44
5:C:34:THR:HG22	5:C:180:VAL:HG21	2.00	0.44
5:C:74:ASP:OD1	5:C:74:ASP:C	2.56	0.44
5:C:76:LEU:H	5:C:76:LEU:CD1	2.26	0.44
5:C:217:LEU:HA	5:C:220:LEU:HD13	1.99	0.44
5:D:57:ARG:HB2	5:D:139:GLU:CD	2.42	0.44
5:D:138:MET:C	5:D:139:GLU:OE1	2.60	0.44
6:E:63:PHE:HB3	6:E:99:ARG:HG2	1.99	0.44
6:E:65:PRO:HG3	6:E:93:VAL:HA	1.99	0.44
6:E:139:ILE:C	6:E:140:VAL:O	2.56	0.44
6:E:448:LEU:C	6:E:449:VAL:HG23	2.42	0.44
8:G:92:ILE:HA	8:G:92:ILE:HD12	1.59	0.44
8:G:110:LEU:HD12	8:G:152:ARG:H	1.82	0.44
8:G:173:TYR:HA	8:G:176:ARG:CB	2.47	0.44
8:G:325:VAL:HG21	8:G:384:VAL:HG21	1.98	0.44
8:G:352:GLU:O	8:G:353:GLU:C	2.59	0.44
9:X:57:VAL:HG12	9:X:90:TYR:HA	1.99	0.44
9:X:98:VAL:CG1	9:X:99:GLU:N	2.80	0.44
9:X:212:VAL:HG12	9:X:214:LYS:N	2.32	0.44
9:Y:34:ILE:HG22	9:Y:34:ILE:O	2.16	0.44
9:Y:62:GLU:CD	9:Y:64:ILE:HG13	2.42	0.44
9:Y:69:LEU:C	9:Y:70:ARG:HD2	2.43	0.44
9:Y:78:LEU:HD21	9:Y:88:ARG:HH11	1.82	0.44
9:Y:179:ILE:O	9:Y:179:ILE:HG22	2.17	0.44
9:Y:212:VAL:HG12	9:Y:214:LYS:N	2.32	0.44
1:1:69:DA:N6	2:2:57:DT:O4	2.50	0.44
1:1:86:DG:N1	1:1:87:DA:C6	2.85	0.44
1:1:106:DG:H5'	1:1:106:DG:H8	1.81	0.44
2:2:7:DT:C2	2:2:8:DC:C4	3.05	0.44
2:2:45:DA:P	2:2:45:DA:C3'	3.06	0.44
2:2:50:DG:N1	2:2:51:DT:N3	2.66	0.44
2:2:59:DG:H3'	2:2:60:DC:C5	2.52	0.44
3:A:64:GLU:OE2	3:A:102:LEU:HA	2.17	0.44
3:A:104:LYS:HA	4:B:557:GLN:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:161:TYR:CZ	3:A:307:LEU:O	2.70	0.44
3:A:257:LEU:HG	3:A:258:ASP:H	1.82	0.44
3:A:270:GLY:O	3:A:271:ARG:C	2.59	0.44
3:A:298:LEU:HD12	3:A:298:LEU:C	2.42	0.44
3:A:432:PRO:O	3:A:433:ILE:HD13	2.16	0.44
3:A:495:ILE:HG23	3:A:496:PRO:HD2	1.99	0.44
3:A:527:VAL:CG2	3:A:528:ALA:N	2.77	0.44
3:A:556:GLY:N	3:A:559:MET:HE1	2.32	0.44
3:A:588:MET:C	3:A:589:VAL:HG13	2.43	0.44
3:A:597:ASP:OD1	3:A:662:ARG:CD	2.66	0.44
3:A:685:ASN:C	3:A:686:ILE:CG2	2.82	0.44
3:A:740:ILE:HD12	3:A:740:ILE:N	2.33	0.44
3:A:774:THR:O	3:A:799:VAL:HG22	2.17	0.44
3:A:797:ARG:NE	3:A:798:ASP:N	2.63	0.44
3:A:854:GLY:HA3	3:A:858:ASN:HD22	1.82	0.44
3:A:882:ILE:HD13	3:A:882:ILE:HG21	1.31	0.44
3:A:902:LEU:N	3:A:902:LEU:CD2	2.77	0.44
3:A:1033:THR:O	3:A:1034:LEU:O	2.35	0.44
3:A:1038:LEU:CD1	6:E:352:LYS:NZ	2.79	0.44
4:B:1:MET:HB2	4:B:1:MET:HE3	1.65	0.44
4:B:11:GLY:HA2	4:B:14:ARG:HB2	1.97	0.44
4:B:24:TYR:CD1	4:B:24:TYR:N	2.81	0.44
4:B:41:PHE:HD1	4:B:41:PHE:HA	1.57	0.44
4:B:57:MET:O	4:B:141:VAL:HG21	2.18	0.44
4:B:86:THR:O	4:B:90:ARG:HG3	2.17	0.44
4:B:416:GLN:O	4:B:418:VAL:HG23	2.18	0.44
4:B:490:LEU:O	4:B:895:ARG:NE	2.50	0.44
4:B:546:LEU:N	4:B:830:LEU:H	2.09	0.44
4:B:591:LEU:HG	4:B:592:ILE:O	2.17	0.44
4:B:646:LEU:CD2	4:B:662:LYS:N	2.78	0.44
4:B:687:LYS:HD3	4:B:781:ARG:NH2	2.33	0.44
4:B:713:GLU:OE1	4:B:714:LEU:C	2.61	0.44
4:B:718:VAL:HG22	4:B:719:ALA:N	2.32	0.44
4:B:775:PRO:CD	4:B:790:LEU:HA	2.43	0.44
4:B:1172:GLN:O	4:B:1176:VAL:HG23	2.18	0.44
5:C:45:LEU:HA	5:C:45:LEU:HD23	1.33	0.44
5:C:55:ALA:C	5:C:56:VAL:HG13	2.42	0.44
5:C:195:LEU:N	5:C:195:LEU:CD1	2.74	0.44
5:D:77:GLU:C	5:D:77:GLU:OE1	2.61	0.44
6:E:31:PRO:O	6:E:32:ASN:C	2.53	0.44
6:E:145:TYR:CE2	6:E:167:TRP:CG	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:277:ARG:CG	6:E:278:ARG:N	2.78	0.44
6:E:401:ILE:HG13	6:E:402:LYS:H	1.81	0.44
7:F:33:VAL:O	7:F:36:ALA:N	2.47	0.44
8:G:185:GLN:OE1	8:G:185:GLN:HA	2.13	0.44
8:G:292:LYS:O	8:G:293:GLU:CD	2.61	0.44
9:X:43:ARG:HD2	9:X:44:VAL:H	1.82	0.44
9:X:62:GLU:C	9:X:63:GLU:OE1	2.60	0.44
9:Y:48:LEU:C	9:Y:49:LYS:HD2	2.37	0.44
9:Y:51:ALA:HA	9:Y:69:LEU:O	2.16	0.44
9:Y:81:LEU:HB3	9:Y:86:SER:OG	2.18	0.44
9:Y:98:VAL:CG1	9:Y:99:GLU:N	2.80	0.44
1:1:80:DA:N3	1:1:80:DA:O4'	2.45	0.44
1:1:100:DA:C4	8:G:204:TYR:CZ	3.01	0.44
2:2:4:DG:C5	2:2:5:DC:C4	3.06	0.44
2:2:40:DC:C4'	2:2:41:DC:H5'	2.47	0.44
3:A:181:ASP:C	3:A:181:ASP:OD1	2.59	0.44
3:A:192:LYS:CG	3:A:193:LEU:H	2.27	0.44
3:A:226:GLU:N	3:A:226:GLU:CD	2.75	0.44
3:A:251:LEU:HA	3:A:251:LEU:HD23	1.19	0.44
3:A:252:GLY:CA	3:A:255:GLN:NE2	2.63	0.44
3:A:302:ASP:C	3:A:306:ASN:OD1	2.60	0.44
3:A:360:THR:C	3:A:362:ALA:N	2.75	0.44
3:A:410:LEU:HD23	3:A:415:ALA:HB2	1.99	0.44
3:A:427:TYR:HA	3:A:534:ILE:HD12	1.99	0.44
3:A:590:ILE:CG2	3:A:670:ALA:N	2.80	0.44
3:A:620:LYS:HG2	3:A:630:GLN:CA	2.48	0.44
3:A:639:VAL:CG2	3:A:653:GLN:HB2	2.47	0.44
3:A:642:TYR:N	3:A:651:LEU:O	2.45	0.44
3:A:739:GLU:OE1	3:A:739:GLU:HA	2.17	0.44
3:A:776:LYS:HB2	3:A:800:ARG:H	1.83	0.44
3:A:886:PRO:CB	4:B:50:SER:HA	2.47	0.44
3:A:968:PHE:HZ	3:A:972:VAL:CG2	2.08	0.44
3:A:973:THR:O	3:A:974:ILE:HD13	2.18	0.44
3:A:993:ARG:O	3:A:994:SER:C	2.54	0.44
3:A:1087:HIS:CB	3:A:1097:SER:O	2.64	0.44
4:B:60:PRO:O	4:B:62:LYS:N	2.50	0.44
4:B:107:ASP:C	4:B:111:THR:HG23	2.43	0.44
4:B:149:ASP:O	4:B:151:GLN:O	2.35	0.44
4:B:378:PHE:CZ	4:B:423:LEU:O	2.71	0.44
4:B:412:ILE:CA	4:B:424:LEU:HD22	2.45	0.44
4:B:481:TRP:CD1	4:B:970:ARG:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:523:VAL:HG23	4:B:860:LYS:O	2.17	0.44
4:B:545:VAL:CA	4:B:829:ARG:HD3	2.42	0.44
4:B:574:LEU:HD23	4:B:578:PRO:CD	2.47	0.44
4:B:600:THR:O	4:B:784:SER:HA	2.16	0.44
4:B:646:LEU:HB2	4:B:662:LYS:HG2	1.99	0.44
4:B:882:GLY:O	4:B:899:VAL:HG23	2.18	0.44
4:B:919:GLY:H	4:B:941:VAL:HA	1.82	0.44
4:B:989:GLN:O	4:B:992:ASP:CG	2.61	0.44
4:B:1022:LYS:HE2	4:B:1091:HIS:CG	2.52	0.44
5:C:63:HIS:CD2	5:C:64:GLU:N	2.86	0.44
5:C:77:GLU:C	5:C:77:GLU:OE1	2.61	0.44
5:C:138:MET:C	5:C:139:GLU:OE1	2.60	0.44
5:D:19:HIS:CD2	5:D:202:GLY:HA2	2.53	0.44
5:D:108:THR:HG22	5:D:126:TYR:HA	1.99	0.44
5:D:142:ILE:CG2	5:D:143:GLU:N	2.77	0.44
5:D:166:ILE:HG21	5:D:166:ILE:HD13	1.38	0.44
6:E:28:ARG:HE	6:E:102:ARG:NE	2.15	0.44
6:E:140:VAL:H	6:E:140:VAL:HG22	1.21	0.44
6:E:197:LEU:HD23	6:E:242:GLU:HA	1.98	0.44
6:E:300:ARG:O	6:E:302:GLU:N	2.51	0.44
6:E:312:ALA:O	6:E:315:ASP:N	2.51	0.44
6:E:487:ALA:O	6:E:489:LEU:N	2.51	0.44
6:E:542:ILE:HA	6:E:542:ILE:HD13	1.33	0.44
6:E:620:GLN:O	6:E:621:GLU:C	2.53	0.44
7:F:32:THR:HG23	7:F:32:THR:H	1.39	0.44
9:Y:74:VAL:HG22	9:Y:75:PHE:C	2.43	0.44
1:1:74:DT:N3	2:2:53:DT:C4	2.86	0.44
2:2:7:DT:C4	2:2:8:DC:C4	3.06	0.44
2:2:32:DA:C6	2:2:33:DA:C6	3.06	0.44
3:A:166:ILE:HG23	3:A:172:TRP:HE1	1.81	0.44
3:A:218:TYR:O	3:A:219:PHE:CG	2.71	0.44
3:A:334:ASN:O	3:A:336:VAL:N	2.50	0.44
3:A:440:ASN:OD1	3:A:440:ASN:N	2.45	0.44
3:A:460:GLU:C	3:A:460:GLU:CD	2.84	0.44
3:A:602:ASP:OD2	5:C:69:PRO:C	2.60	0.44
3:A:797:ARG:HG3	3:A:798:ASP:N	2.29	0.44
3:A:889:VAL:O	4:B:140:LEU:HD11	2.17	0.44
4:B:220:ILE:CD1	4:B:221:PRO:HD2	2.48	0.44
4:B:447:SER:HB2	4:B:992:ASP:OD1	2.17	0.44
4:B:463:LYS:HD3	4:B:472:THR:HA	2.00	0.44
4:B:489:ASN:HA	4:B:895:ARG:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:575:ARG:CG	4:B:794:GLN:HG3	2.41	0.44
4:B:603:PHE:H	4:B:781:ARG:NH1	2.14	0.44
4:B:631:TRP:CD1	4:B:633:PRO:HD3	2.52	0.44
4:B:651:GLY:CA	4:B:731:PRO:HB2	2.48	0.44
4:B:652:GLN:HB3	4:B:732:GLU:OE2	2.17	0.44
4:B:664:ILE:CG2	4:B:665:PHE:N	2.81	0.44
4:B:688:PRO:CG	4:B:739:ARG:HG2	2.46	0.44
4:B:873:ARG:O	4:B:874:THR:OG1	2.30	0.44
5:C:32:GLN:NE2	5:D:220:LEU:HD21	2.27	0.44
5:C:151:VAL:CG1	5:C:151:VAL:O	2.58	0.44
5:C:183:VAL:CG2	5:C:192:ASP:H	2.31	0.44
5:C:206:PRO:O	5:C:209:ALA:HB3	2.18	0.44
5:C:210:LEU:HB3	5:D:224:LEU:O	2.18	0.44
5:D:51:THR:O	5:D:52:ALA:HB2	2.18	0.44
5:D:69:PRO:O	5:D:71:VAL:HG12	2.17	0.44
5:D:81:ARG:C	5:D:84:GLU:OE2	2.61	0.44
5:D:90:TYR:HA	5:D:144:ARG:HH22	1.83	0.44
5:D:104:PRO:C	5:D:130:ILE:O	2.60	0.44
5:D:148:TYR:HA	5:D:169:ILE:HA	1.98	0.44
6:E:134:ARG:H	6:E:137:GLU:CB	2.27	0.44
6:E:134:ARG:C	6:E:138:GLN:HG2	2.42	0.44
6:E:461:CYS:HB2	6:E:462:PRO:HD3	1.99	0.44
6:E:481:LEU:N	6:E:481:LEU:CD2	2.67	0.44
6:E:548:GLU:O	6:E:549:GLN:C	2.60	0.44
6:E:550:ILE:HD12	6:E:610:PRO:HG2	1.92	0.44
8:G:127:ASP:CB	8:G:129:ARG:HD3	2.43	0.44
9:X:69:LEU:C	9:X:70:ARG:HD2	2.43	0.44
9:X:144:ASP:O	9:X:148:ARG:CG	2.65	0.44
9:X:177:GLN:O	9:X:178:ALA:C	2.57	0.44
1:1:73:DA:C4	2:2:54:DA:C6	3.05	0.44
1:1:86:DG:N9	1:1:87:DA:C8	2.86	0.44
1:1:90:DA:C4	1:1:91:DT:C6	3.06	0.44
1:1:105:DG:H1'	8:G:86:LEU:HD11	1.99	0.44
1:1:106:DG:H5"	8:G:171:LYS:HD3	2.00	0.44
3:A:96:TYR:CD2	3:A:115:PHE:HB3	2.52	0.44
3:A:165:LEU:CD2	3:A:165:LEU:N	2.80	0.44
3:A:217:GLU:HB2	3:A:221:LYS:H	1.82	0.44
3:A:358:VAL:O	3:A:360:THR:N	2.51	0.44
3:A:392:PRO:HG2	3:A:393:LEU:H	1.82	0.44
3:A:635:ILE:C	3:A:637:TYR:N	2.74	0.44
3:A:654:LYS:CE	5:C:77:GLU:HG2	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:866:LEU:HD23	3:A:867:PRO:HD3	1.99	0.44
3:A:886:PRO:HG2	3:A:887:LEU:H	1.82	0.44
4:B:5:ASN:O	4:B:6:ARG:CG	2.65	0.44
4:B:37:LYS:HG3	4:B:37:LYS:HZ3	1.23	0.44
4:B:88:VAL:CG2	4:B:369:ARG:HB3	2.43	0.44
4:B:93:LYS:O	4:B:94:VAL:C	2.59	0.44
4:B:268:LEU:O	4:B:269:ALA:O	2.35	0.44
4:B:397:PRO:HB2	4:B:399:PRO:CD	2.42	0.44
4:B:915:LYS:HD2	4:B:930:PRO:HG2	1.99	0.44
4:B:927:GLU:HA	4:B:933:PHE:CD1	2.52	0.44
5:D:19:HIS:CB	5:D:200:THR:HG22	2.41	0.44
5:D:35:THR:O	5:D:39:ALA:N	2.47	0.44
5:D:63:HIS:HD2	5:D:65:PHE:HD2	1.65	0.44
6:E:42:PRO:HA	6:E:57:LEU:HD21	1.99	0.44
6:E:232:ASP:N	6:E:232:ASP:OD1	2.42	0.44
6:E:401:ILE:C	6:E:403:ALA:N	2.73	0.44
6:E:455:GLN:HG2	6:E:455:GLN:H	1.51	0.44
6:E:572:GLU:N	6:E:572:GLU:CD	2.72	0.44
8:G:103:LEU:HD23	8:G:103:LEU:HA	1.58	0.44
8:G:120:LEU:CD2	8:G:136:ALA:HB2	2.44	0.44
8:G:164:ARG:O	8:G:165:LEU:HB3	2.17	0.44
8:G:309:PRO:O	8:G:310:GLU:C	2.61	0.44
8:G:340:ARG:NH2	8:G:369:GLU:HB2	2.32	0.44
9:X:48:LEU:H	9:X:100:LEU:HA	1.83	0.44
9:X:81:LEU:HB2	9:X:86:SER:OG	2.18	0.44
9:X:166:ASP:CG	9:X:167:GLY:N	2.76	0.44
9:X:197:LEU:HD23	9:X:203:ILE:HG13	2.00	0.44
9:Y:135:MET:C	9:Y:137:ILE:N	2.71	0.44
9:Y:148:ARG:HH11	9:Y:183:ILE:HA	1.82	0.44
1:1:115:DA:N6	2:2:10:DG:C6	2.86	0.44
2:2:7:DT:H4'	2:2:8:DC:OP1	2.17	0.44
2:2:31:DA:N6	2:2:32:DA:C6	2.86	0.44
2:2:41:DC:H4'	2:2:42:DT:C5'	2.42	0.44
3:A:32:GLU:OE2	3:A:33:ILE:N	2.50	0.44
3:A:96:TYR:HB3	3:A:113:GLU:OE1	2.18	0.44
3:A:138:VAL:CG1	3:A:383:LEU:HD23	2.48	0.44
3:A:147:VAL:HG22	3:A:148:TYR:N	2.29	0.44
3:A:206:ASP:OD1	3:A:207:ASN:N	2.50	0.44
3:A:215:HIS:C	3:A:219:PHE:H	2.26	0.44
3:A:242:LEU:HG	3:A:243:ARG:N	2.33	0.44
3:A:599:VAL:C	3:A:608:VAL:HG12	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:682:LEU:N	3:A:682:LEU:CD2	2.79	0.44
3:A:712:ASP:O	3:A:715:THR:HG23	2.17	0.44
3:A:719:ILE:HA	3:A:841:ALA:HA	1.98	0.44
3:A:757:ILE:HG22	3:A:758:ARG:N	2.33	0.44
3:A:764:GLU:HB3	3:A:765:ALA:H	1.67	0.44
3:A:1006:LEU:HD12	3:A:1006:LEU:HA	1.61	0.44
4:B:53:VAL:O	4:B:56:LEU:HB2	2.17	0.44
4:B:69:ALA:HA	4:B:419:LYS:HB2	1.99	0.44
4:B:95:ILE:O	4:B:96:ASP:C	2.56	0.44
4:B:118:PRO:O	4:B:119:LEU:HB2	2.17	0.44
4:B:144:ARG:HB2	4:B:159:ILE:CB	2.36	0.44
4:B:232:LEU:HA	4:B:232:LEU:HD13	1.34	0.44
4:B:453:VAL:H	4:B:987:LEU:HA	1.83	0.44
4:B:523:VAL:O	4:B:525:LEU:N	2.50	0.44
4:B:544:VAL:HG21	4:B:832:LEU:HB3	2.00	0.44
4:B:561:ASN:HA	4:B:574:LEU:HD22	1.99	0.44
4:B:653:TYR:CE1	4:B:670:GLY:O	2.71	0.44
4:B:709:GLN:O	4:B:719:ALA:HB3	2.18	0.44
4:B:1033:GLY:CA	4:B:1052:ILE:HD12	2.47	0.44
4:B:1159:ASP:HA	4:B:1180:MET:SD	2.54	0.44
4:B:1226:GLU:HG3	6:E:233:ASN:ND2	2.27	0.44
5:C:50:GLY:O	5:C:144:ARG:HA	2.18	0.44
5:C:51:THR:O	5:C:52:ALA:HB2	2.18	0.44
5:C:58:ILE:HD13	5:C:58:ILE:HA	1.45	0.44
5:C:150:THR:O	5:C:151:VAL:C	2.61	0.44
5:C:206:PRO:O	5:C:209:ALA:CB	2.66	0.44
5:D:17:ARG:O	5:D:18:ASN:C	2.60	0.44
5:D:67:THR:HG23	5:D:68:VAL:N	2.33	0.44
5:D:69:PRO:O	5:D:71:VAL:N	2.51	0.44
5:D:161:LEU:C	5:D:163:PHE:H	2.25	0.44
5:D:161:LEU:C	5:D:163:PHE:N	2.72	0.44
5:D:205:SER:CA	5:D:208:GLU:OE2	2.65	0.44
5:D:206:PRO:O	5:D:209:ALA:CB	2.66	0.44
6:E:139:ILE:HD13	6:E:139:ILE:HA	1.36	0.44
6:E:229:ARG:O	6:E:230:VAL:C	2.59	0.44
6:E:245:VAL:HG13	6:E:246:MET:N	2.27	0.44
6:E:469:ASP:C	6:E:469:ASP:OD1	2.56	0.44
6:E:486:GLU:O	6:E:487:ALA:C	2.52	0.44
6:E:518:TYR:CD1	6:E:519:TYR:N	2.85	0.44
6:E:589:LYS:O	6:E:590:TYR:CD1	2.70	0.44
8:G:103:LEU:HB3	8:G:158:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:132:GLU:CD	8:G:139:LEU:HB3	2.43	0.44
8:G:376:LEU:HA	8:G:381:ARG:HB3	2.00	0.44
9:X:29:GLU:HB2	9:X:32:LYS:HE3	2.00	0.44
9:Y:46:PHE:C	9:Y:100:LEU:CD1	2.86	0.44
9:Y:54:LEU:HD21	9:Y:90:TYR:HB3	2.00	0.44
9:Y:62:GLU:OE2	9:Y:64:ILE:CG1	2.66	0.44
9:Y:206:HIS:O	9:Y:207:LYS:C	2.61	0.44
1:1:76:DC:N3	2:2:50:DG:C6	2.79	0.44
1:1:78:DA:C4	1:1:79:DA:N7	2.86	0.44
1:1:82:DT:H2"	1:1:83:DC:H5'	2.00	0.44
2:2:44:DA:OP2	2:2:44:DA:H8	2.00	0.44
2:2:63:DC:H41	9:Y:187:ARG:CD	2.19	0.44
3:A:58:ASP:C	3:A:60:THR:N	2.76	0.44
3:A:198:LEU:CD1	3:A:298:LEU:HB3	2.48	0.44
3:A:220:GLN:HB2	3:A:221:LYS:CD	2.40	0.44
3:A:624:ASN:ND2	3:A:627:LEU:HD22	2.33	0.44
3:A:721:LYS:O	3:A:722:TYR:HD1	1.95	0.44
3:A:776:LYS:HG2	3:A:800:ARG:CZ	2.48	0.44
3:A:787:LEU:O	3:A:788:LEU:C	2.57	0.44
3:A:788:LEU:O	3:A:789:ARG:O	2.36	0.44
3:A:791:ILE:HG23	8:G:377:ARG:CG	2.47	0.44
3:A:882:ILE:O	3:A:883:VAL:HB	2.18	0.44
3:A:1000:LEU:HA	3:A:1000:LEU:HD13	1.51	0.44
3:A:1039:THR:O	3:A:1040:VAL:C	2.55	0.44
3:A:1050:GLU:O	3:A:1053:ASN:HB3	2.17	0.44
4:B:103:GLU:HB3	4:B:354:ASP:OD2	2.18	0.44
4:B:198:ARG:NH1	6:E:346:ARG:NH2	2.65	0.44
4:B:240:LEU:HD12	4:B:241:GLY:H	1.83	0.44
4:B:360:PRO:O	4:B:361:ARG:HB2	2.17	0.44
4:B:440:LYS:HD2	4:B:1000:GLU:CA	2.48	0.44
4:B:544:VAL:HG12	4:B:546:LEU:HG	2.00	0.44
4:B:562:TYR:CD1	4:B:574:LEU:HD21	2.53	0.44
4:B:564:ILE:HG13	4:B:830:LEU:CD1	2.47	0.44
4:B:621:TYR:CB	4:B:773:ARG:HA	2.46	0.44
4:B:660:VAL:C	4:B:664:ILE:O	2.56	0.44
4:B:764:ARG:CB	4:B:807:HIS:HB2	2.47	0.44
4:B:902:HIS:C	4:B:905:MET:O	2.61	0.44
4:B:910:ILE:CG1	4:B:912:ALA:HB3	2.48	0.44
4:B:1121:LEU:O	4:B:1124:GLU:HB3	2.17	0.44
4:B:1148:MET:HG3	4:B:1196:GLY:O	2.18	0.44
4:B:1159:ASP:CA	4:B:1180:MET:CE	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:121:ILE:N	5:C:121:ILE:HD13	2.31	0.44
5:C:225:LYS:HD3	5:D:214:ALA:HB3	2.00	0.44
5:D:75:VAL:CG1	5:D:76:LEU:N	2.79	0.44
5:D:202:GLY:C	5:D:204:ILE:N	2.73	0.44
5:D:206:PRO:O	5:D:209:ALA:HB3	2.18	0.44
6:E:230:VAL:HG23	6:E:231:ILE:HG13	2.00	0.44
6:E:231:ILE:H	6:E:231:ILE:HG13	1.45	0.44
6:E:299:VAL:CG1	6:E:300:ARG:N	2.79	0.44
6:E:448:LEU:H	6:E:448:LEU:HG	1.42	0.44
6:E:483:SER:HA	6:E:486:GLU:CD	2.37	0.44
6:E:517:ALA:O	6:E:518:TYR:C	2.53	0.44
8:G:83:ARG:HD3	8:G:86:LEU:CD2	2.32	0.44
8:G:298:LEU:C	8:G:300:ASP:H	2.26	0.44
8:G:322:LEU:C	8:G:325:VAL:HG12	2.43	0.44
9:X:118:LEU:O	9:X:121:LEU:HB2	2.18	0.44
1:1:72:DT:H71	9:X:187:ARG:HH22	0.75	0.43
1:1:89:DA:N1	1:1:90:DA:C4	2.86	0.43
1:1:118:DG:C1'	1:1:119:DA:H2'	2.48	0.43
2:2:51:DT:C1'	2:2:52:DA:C8	3.01	0.43
3:A:26:LEU:HA	3:A:26:LEU:HD12	1.12	0.43
3:A:371:VAL:O	3:A:375:LYS:CB	2.66	0.43
3:A:400:ARG:H	3:A:400:ARG:HG2	1.04	0.43
3:A:413:GLU:C	3:A:415:ALA:H	2.26	0.43
3:A:429:ARG:HH12	3:A:484:GLU:HG3	1.75	0.43
3:A:431:CYS:HA	3:A:534:ILE:O	2.18	0.43
3:A:513:ARG:C	3:A:515:GLU:N	2.72	0.43
3:A:521:PRO:N	3:A:522:GLU:CD	2.75	0.43
3:A:612:GLY:HA2	3:A:632:GLY:CA	2.48	0.43
3:A:1028:PHE:HD1	6:E:438:ARG:HD2	1.83	0.43
4:B:59:PRO:O	4:B:60:PRO:C	2.61	0.43
4:B:251:PRO:CG	4:B:254:LYS:HZ1	2.28	0.43
4:B:523:VAL:CB	4:B:859:VAL:HG13	2.28	0.43
4:B:562:TYR:HD1	4:B:574:LEU:HD21	1.81	0.43
4:B:605:LYS:HG3	4:B:605:LYS:O	2.17	0.43
4:B:619:LEU:HD23	4:B:619:LEU:H	1.83	0.43
4:B:696:ASP:HB3	4:B:698:GLU:OE2	2.18	0.43
4:B:737:LEU:HD11	4:B:739:ARG:HG3	1.99	0.43
4:B:900:LEU:HD21	4:B:967:ARG:NH1	2.33	0.43
4:B:1215:GLU:O	4:B:1216:THR:C	2.60	0.43
4:B:1245:ILE:CG2	4:B:1246:PRO:CD	2.94	0.43
5:C:158:ALA:O	5:C:159:THR:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:213:ALA:C	5:C:215:GLY:N	2.73	0.43
5:D:40:LEU:C	5:D:42:ARG:N	2.70	0.43
6:E:143:ASN:C	6:E:144:SER:HG	2.20	0.43
6:E:182:GLN:HG2	6:E:183:GLY:N	2.30	0.43
6:E:280:ILE:O	6:E:283:ASN:HB3	2.18	0.43
6:E:308:GLU:O	6:E:311:ASP:HB3	2.18	0.43
6:E:361:VAL:H	6:E:361:VAL:HG22	1.32	0.43
6:E:428:VAL:CG1	6:E:429:MET:N	2.78	0.43
6:E:559:ARG:HB2	6:E:605:TYR:CE1	2.53	0.43
6:E:586:VAL:CG2	6:E:587:LEU:N	2.80	0.43
6:E:594:ARG:HB2	6:E:603:SER:N	2.30	0.43
7:F:64:GLU:OE1	7:F:68:GLU:CB	2.66	0.43
9:X:173:LYS:C	9:X:174:LEU:HG	2.43	0.43
9:X:196:ASP:HA	9:X:200:LYS:HB2	2.00	0.43
9:Y:53:LYS:CB	9:Y:68:LEU:HD23	2.42	0.43
9:Y:218:LEU:HA	9:Y:218:LEU:HD23	1.44	0.43
2:2:39:DT:N3	2:2:40:DC:C4	2.86	0.43
3:A:271:ARG:O	3:A:274:ARG:HB2	2.18	0.43
3:A:350:ARG:HH21	3:A:364:LEU:C	2.26	0.43
3:A:385:GLN:H	3:A:385:GLN:HG3	1.58	0.43
3:A:555:MET:HE3	3:A:857:GLY:HA3	2.00	0.43
3:A:556:GLY:O	3:A:558:ASN:N	2.50	0.43
3:A:644:ARG:CZ	3:A:721:LYS:HB2	2.49	0.43
3:A:717:ILE:HD12	3:A:717:ILE:HG23	1.47	0.43
3:A:797:ARG:CG	3:A:798:ASP:H	2.28	0.43
3:A:801:ASP:N	3:A:801:ASP:OD1	2.45	0.43
3:A:838:VAL:HG22	3:A:839:TYR:N	2.32	0.43
3:A:839:TYR:CD1	3:A:839:TYR:N	2.70	0.43
3:A:973:THR:H	3:A:973:THR:HG23	1.51	0.43
3:A:1070:PHE:C	3:A:1072:VAL:N	2.72	0.43
3:A:1076:GLU:N	3:A:1076:GLU:CD	2.53	0.43
4:B:39:LEU:HA	4:B:39:LEU:HD23	1.10	0.43
4:B:96:ASP:OD1	4:B:423:LEU:HD23	2.18	0.43
4:B:149:ASP:O	4:B:150:PRO:C	2.61	0.43
4:B:183:LEU:HD12	4:B:183:LEU:HA	1.31	0.43
4:B:250:HIS:CG	4:B:254:LYS:HG3	2.54	0.43
4:B:258:ALA:HA	4:B:259:PRO:HD2	1.62	0.43
4:B:321:GLN:HG3	4:B:322:SER:N	2.32	0.43
4:B:361:ARG:N	4:B:392:GLU:N	2.59	0.43
4:B:371:ARG:C	4:B:373:GLY:H	2.23	0.43
4:B:377:LEU:C	4:B:378:PHE:CG	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:479:LEU:O	4:B:481:TRP:CZ3	2.71	0.43
4:B:491:PRO:CG	4:B:494:ALA:HB2	2.42	0.43
4:B:611:VAL:HG13	4:B:614:LYS:NZ	2.33	0.43
4:B:634:GLU:CB	4:B:688:PRO:HD3	2.48	0.43
4:B:826:ASP:O	4:B:827:VAL:C	2.61	0.43
4:B:856:SER:H	4:B:873:ARG:HD3	1.82	0.43
4:B:1225:ILE:HG21	4:B:1225:ILE:HD13	1.48	0.43
5:C:18:ASN:HB3	5:C:199:TRP:HE3	1.83	0.43
5:C:130:ILE:HG21	5:C:136:LEU:HD11	1.96	0.43
5:C:227:ILE:HG21	5:D:6:ILE:H	1.83	0.43
5:D:13:THR:HG22	5:D:19:HIS:CA	2.48	0.43
5:D:54:THR:HA	5:D:166:ILE:HG22	1.99	0.43
5:D:72:ARG:N	5:D:73:GLU:OE1	2.51	0.43
5:D:204:ILE:HG23	5:D:204:ILE:HD12	1.41	0.43
6:E:126:SER:O	6:E:130:ASP:N	2.51	0.43
6:E:366:PRO:O	6:E:367:LYS:HB2	2.17	0.43
6:E:615:TYR:C	6:E:617:LYS:N	2.75	0.43
7:F:34:GLN:O	7:F:35:VAL:C	2.54	0.43
8:G:110:LEU:CD1	8:G:152:ARG:CG	2.96	0.43
8:G:132:GLU:CD	8:G:139:LEU:O	2.60	0.43
8:G:141:LEU:O	8:G:142:PRO:C	2.58	0.43
8:G:212:TRP:O	8:G:215:ARG:N	2.51	0.43
9:X:88:ARG:C	9:X:90:TYR:H	2.26	0.43
9:X:144:ASP:C	9:X:148:ARG:HH21	2.26	0.43
9:X:183:ILE:O	9:Y:143:ARG:CD	2.65	0.43
9:Y:43:ARG:HA	9:Y:78:LEU:HB2	2.00	0.43
9:Y:56:ARG:HG2	9:Y:64:ILE:N	2.32	0.43
1:1:60:DT:C1’	1:1:61:DT:C6	2.97	0.43
1:1:73:DA:H2”	1:1:74:DT:OP2	2.18	0.43
2:2:26:DA:C5	2:2:26:DA:P	2.96	0.43
2:2:49:DT:C2	2:2:50:DG:C5	3.05	0.43
2:2:58:DA:C4	2:2:59:DG:C8	3.05	0.43
3:A:65:LEU:HD11	3:A:364:LEU:CD1	2.49	0.43
3:A:185:VAL:HG21	3:A:200:LYS:NZ	2.33	0.43
3:A:254:GLN:O	3:A:256:LEU:N	2.51	0.43
3:A:328:VAL:CG2	3:A:329:GLY:N	2.71	0.43
3:A:378:PHE:C	3:A:380:SER:N	2.76	0.43
3:A:499:GLU:O	3:A:500:ASN:CB	2.62	0.43
3:A:608:VAL:HB	3:A:615:PRO:CB	2.49	0.43
3:A:974:ILE:HG23	3:A:974:ILE:HD12	1.25	0.43
4:B:5:ASN:C	6:E:612:ARG:NH1	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:182:GLY:O	4:B:183:LEU:C	2.59	0.43
4:B:295:CYS:O	4:B:296:GLN:C	2.61	0.43
4:B:419:LYS:HE3	4:B:420:LYS:N	2.33	0.43
4:B:424:LEU:C	4:B:426:GLU:H	2.25	0.43
4:B:458:VAL:HG22	4:B:479:LEU:H	1.82	0.43
4:B:553:VAL:HB	4:B:562:TYR:HA	2.00	0.43
4:B:591:LEU:HB3	4:B:793:THR:HB	1.99	0.43
4:B:728:VAL:O	4:B:729:GLU:C	2.61	0.43
5:C:174:ARG:N	5:C:199:TRP:O	2.48	0.43
5:C:200:THR:C	5:C:202:GLY:N	2.70	0.43
5:D:98:ARG:NH1	5:D:98:ARG:HG2	2.32	0.43
6:E:290:GLN:O	6:E:293:LEU:HD23	2.17	0.43
6:E:303:LYS:C	6:E:305:MET:N	2.68	0.43
6:E:498:LEU:CB	6:E:505:PRO:HA	2.48	0.43
6:E:561:ASP:OD1	6:E:604:GLN:HB3	2.18	0.43
7:F:19:GLU:OE1	7:F:20:ASP:OD1	2.36	0.43
7:F:21:LEU:HD12	7:F:21:LEU:HA	1.36	0.43
8:G:201:GLU:N	8:G:201:GLU:OE1	2.51	0.43
8:G:214:ILE:HG23	8:G:214:ILE:HD12	1.60	0.43
9:X:36:PHE:CD1	9:X:91:HIS:HB2	2.53	0.43
9:X:170:ILE:O	9:X:210:ILE:O	2.36	0.43
9:Y:32:LYS:CB	9:Y:94:ALA:HB3	2.39	0.43
1:1:81:DT:C4	2:2:46:DT:O4	2.72	0.43
1:1:95:DT:P	8:G:230:ARG:HH22	2.41	0.43
3:A:131:ASN:C	3:A:133:ALA:N	2.76	0.43
3:A:135:ARG:HA	3:A:387:MET:HG2	1.99	0.43
3:A:166:ILE:HD12	3:A:166:ILE:N	2.32	0.43
3:A:176:GLU:HG2	3:A:177:THR:N	2.34	0.43
3:A:345:ARG:C	3:A:347:ILE:N	2.74	0.43
3:A:430:ILE:HG23	3:A:430:ILE:HD12	1.57	0.43
3:A:547:HIS:ND1	4:B:164:ARG:O	2.51	0.43
3:A:576:THR:O	3:A:576:THR:OG1	2.18	0.43
3:A:586:SER:OG	3:A:586:SER:O	2.24	0.43
3:A:598:VAL:CG1	3:A:661:GLU:N	2.76	0.43
3:A:720:GLU:CG	3:A:722:TYR:CZ	3.01	0.43
3:A:944:GLY:C	3:A:946:ASP:N	2.76	0.43
3:A:968:PHE:CG	4:B:48:GLY:HA3	2.53	0.43
3:A:1073:LEU:HD23	3:A:1073:LEU:HA	1.58	0.43
3:A:1074:MET:H	3:A:1074:MET:HG2	1.34	0.43
4:B:11:GLY:H	4:B:14:ARG:HG3	1.83	0.43
4:B:39:LEU:O	4:B:42:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:119:LEU:HD11	6:E:522:ALA:CB	2.48	0.43
4:B:199:ARG:HG3	4:B:199:ARG:NH1	2.33	0.43
4:B:310:ASP:O	4:B:311:LEU:CG	2.66	0.43
4:B:326:PRO:O	4:B:328:THR:N	2.51	0.43
4:B:331:THR:O	4:B:1007:ILE:HD11	2.18	0.43
4:B:355:GLY:CA	4:B:358:LYS:HZ2	2.27	0.43
4:B:384:ILE:HD13	4:B:405:THR:OG1	2.18	0.43
4:B:503:ARG:HG2	4:B:882:GLY:CA	2.49	0.43
4:B:724:TYR:HE2	4:B:737:LEU:HD23	1.83	0.43
4:B:796:VAL:C	4:B:797:LEU:HD23	2.43	0.43
4:B:1011:LEU:C	4:B:1013:ARG:N	2.71	0.43
4:B:1016:GLU:C	4:B:1018:LEU:N	2.72	0.43
4:B:1144:ILE:HG22	4:B:1145:VAL:N	2.31	0.43
5:C:107:ILE:HB	5:C:128:ALA:H	1.83	0.43
5:C:213:ALA:O	5:C:215:GLY:N	2.52	0.43
5:D:11:SER:HA	5:D:21:SER:OG	2.18	0.43
5:D:142:ILE:HD12	5:D:142:ILE:HG23	1.70	0.43
5:D:149:ARG:HD2	5:D:150:THR:N	2.33	0.43
6:E:34:GLN:O	6:E:34:GLN:CD	2.61	0.43
6:E:78:ARG:HG2	6:E:80:ARG:N	2.31	0.43
6:E:125:ILE:HD12	6:E:125:ILE:HG23	1.43	0.43
6:E:163:SER:O	6:E:164:GLU:HB2	2.18	0.43
6:E:234:PHE:HD1	6:E:239:SER:CB	2.31	0.43
6:E:488:ARG:HE	6:E:488:ARG:HB3	1.34	0.43
8:G:178:LEU:HB3	8:G:179:SER:H	1.60	0.43
8:G:185:GLN:O	8:G:188:SER:CB	2.67	0.43
8:G:219:THR:H	8:G:219:THR:HG23	1.18	0.43
8:G:235:LEU:O	8:G:236:TYR:C	2.61	0.43
8:G:329:LEU:H	8:G:334:ARG:NE	2.16	0.43
9:X:150:VAL:HA	9:X:153:LEU:HB3	2.00	0.43
9:Y:54:LEU:HG	9:Y:55:SER:O	2.18	0.43
9:Y:96:THR:HG23	9:Y:97:PRO:O	2.18	0.43
1:1:74:DT:C4	2:2:53:DT:C4	3.06	0.43
1:1:79:DA:C6	1:1:80:DA:C6	3.06	0.43
1:1:87:DA:N3	1:1:88:DA:O4'	2.51	0.43
1:1:112:DG:P	1:1:112:DG:C8	3.11	0.43
2:2:37:DT:C2	2:2:38:DT:C5	3.07	0.43
3:A:45:GLY:C	3:A:48:GLU:OE2	2.61	0.43
3:A:175:PHE:O	3:A:176:GLU:HB3	2.18	0.43
3:A:240:ARG:HG2	3:A:241:LYS:N	2.33	0.43
3:A:263:ASP:HA	3:A:264:PRO:HD2	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:269:LEU:HD12	3:A:269:LEU:HA	0.95	0.43
3:A:337:ARG:HG3	3:A:338:VAL:N	2.33	0.43
3:A:349:GLU:O	3:A:351:MET:C	2.61	0.43
3:A:357:GLU:C	3:A:359:LEU:H	2.27	0.43
3:A:551:ASN:C	3:A:554:LEU:H	2.18	0.43
3:A:578:LEU:HA	3:A:578:LEU:HD12	1.21	0.43
3:A:722:TYR:HB2	3:A:838:VAL:HG13	1.99	0.43
3:A:936:LEU:O	3:A:938:GLU:N	2.51	0.43
3:A:968:PHE:HE1	3:A:970:ARG:CB	2.26	0.43
3:A:1036:GLU:OE2	3:A:1037:LEU:CA	2.66	0.43
3:A:1072:VAL:O	3:A:1074:MET:N	2.51	0.43
4:B:3:PHE:CE1	6:E:616:ASN:ND2	2.86	0.43
4:B:17:ILE:O	4:B:19:TRP:N	2.51	0.43
4:B:237:THR:H	4:B:237:THR:HG23	1.23	0.43
4:B:252:LYS:HD2	4:B:252:LYS:HA	1.50	0.43
4:B:252:LYS:HE3	4:B:255:GLU:OE1	2.18	0.43
4:B:361:ARG:HA	4:B:390:ARG:O	2.17	0.43
4:B:461:GLU:HG3	4:B:461:GLU:O	2.18	0.43
4:B:490:LEU:N	4:B:895:ARG:CG	2.58	0.43
4:B:572:PHE:CE1	4:B:591:LEU:HB2	2.54	0.43
4:B:681:LEU:C	4:B:681:LEU:HD12	2.43	0.43
4:B:909:ASN:OD1	4:B:910:ILE:N	2.52	0.43
4:B:991:GLY:O	4:B:992:ASP:C	2.62	0.43
4:B:1014:ILE:HA	4:B:1014:ILE:HD13	1.65	0.43
4:B:1032:ARG:N	4:B:1100:LEU:HD21	2.34	0.43
5:C:69:PRO:O	5:C:71:VAL:N	2.51	0.43
5:C:79:ILE:C	5:C:82:MET:N	2.66	0.43
5:C:166:ILE:HD13	5:C:166:ILE:HG21	1.38	0.43
5:C:204:ILE:O	5:C:205:SER:C	2.56	0.43
5:C:205:SER:CA	5:C:208:GLU:OE2	2.65	0.43
5:C:216:ILE:O	5:C:220:LEU:CD1	2.67	0.43
5:D:56:VAL:O	5:D:57:ARG:NH2	2.47	0.43
5:D:58:ILE:HG23	5:D:58:ILE:HD12	1.68	0.43
6:E:197:LEU:N	6:E:197:LEU:HD12	2.29	0.43
6:E:448:LEU:HA	6:E:448:LEU:HD23	1.39	0.43
8:G:366:ARG:HA	8:G:369:GLU:HB3	1.99	0.43
8:G:374:ARG:HB3	8:G:374:ARG:CZ	2.49	0.43
9:X:35:PHE:CE1	9:X:88:ARG:CG	2.90	0.43
9:X:112:LEU:C	9:X:114:GLU:N	2.76	0.43
9:X:137:ILE:O	9:X:138:GLU:HB3	2.18	0.43
9:X:193:LEU:O	9:X:194:LEU:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:34:ILE:O	9:Y:35:PHE:HB3	2.17	0.43
9:Y:119:SER:HA	9:Y:122:MET:HB2	2.00	0.43
9:Y:196:ASP:OD1	9:Y:200:LYS:CD	2.64	0.43
1:1:61:DT:C5	1:1:62:DT:O4	2.72	0.43
1:1:87:DA:C6	1:1:88:DA:C5	3.06	0.43
2:2:37:DT:H2"	2:2:38:DT:H72	2.01	0.43
2:2:55:DA:C6	2:2:56:DG:C6	3.06	0.43
3:A:27:LEU:HD13	3:A:28:PRO:CD	2.48	0.43
3:A:73:LYS:O	3:A:96:TYR:HB2	2.19	0.43
3:A:165:LEU:HD22	3:A:165:LEU:N	2.28	0.43
3:A:185:VAL:HG21	3:A:197:VAL:O	2.17	0.43
3:A:224:GLU:C	3:A:226:GLU:CD	2.85	0.43
3:A:597:ASP:CG	3:A:662:ARG:CD	2.91	0.43
3:A:641:LYS:O	3:A:642:TYR:HB2	2.18	0.43
3:A:686:ILE:HG21	3:A:686:ILE:HD13	1.54	0.43
3:A:729:THR:C	3:A:731:LEU:H	2.26	0.43
3:A:737:THR:C	3:A:739:GLU:N	2.68	0.43
3:A:752:ASP:N	3:A:756:ILE:O	2.45	0.43
3:A:890:PRO:HD2	3:A:892:ARG:HB2	2.00	0.43
3:A:898:VAL:CG2	3:A:899:PHE:N	2.75	0.43
3:A:961:ASP:OD1	3:A:961:ASP:O	2.36	0.43
3:A:1024:ALA:O	3:A:1028:PHE:CE2	2.71	0.43
4:B:70:GLU:HB3	4:B:74:ARG:HH12	1.83	0.43
4:B:261:ASN:C	4:B:262:THR:HG1	2.26	0.43
4:B:484:SER:HG	4:B:904:ASP:HA	1.84	0.43
4:B:525:LEU:CD1	4:B:857:LEU:HD13	2.49	0.43
4:B:636:THR:HB	4:B:784:SER:H	1.84	0.43
4:B:714:LEU:HB2	4:B:717:GLN:HB2	2.01	0.43
4:B:820:PRO:O	4:B:821:ASP:C	2.62	0.43
4:B:858:GLU:OE1	4:B:871:VAL:HA	2.18	0.43
4:B:1091:HIS:CG	4:B:1092:GLU:N	2.86	0.43
5:C:81:ARG:C	5:C:84:GLU:OE2	2.61	0.43
5:C:85:VAL:H	5:C:85:VAL:HG22	1.57	0.43
5:D:6:ILE:HA	5:D:24:ILE:O	2.18	0.43
6:E:259:MET:HE3	6:E:259:MET:HB3	1.45	0.43
6:E:302:GLU:HG3	6:E:303:LYS:N	2.24	0.43
6:E:338:ILE:HA	6:E:344:ARG:N	2.32	0.43
6:E:401:ILE:HD13	6:E:401:ILE:HG21	1.73	0.43
6:E:570:ASP:O	6:E:570:ASP:OD1	2.36	0.43
6:E:613:VAL:H	6:E:613:VAL:HG12	1.71	0.43
7:F:65:MET:HA	7:F:69:LEU:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:133:TRP:CE3	8:G:133:TRP:CA	2.99	0.43
8:G:139:LEU:CD2	8:G:144:PHE:HD1	2.30	0.43
8:G:218:ILE:HG21	8:G:218:ILE:HD13	1.70	0.43
8:G:317:LEU:HD23	8:G:317:LEU:HA	1.78	0.43
8:G:365:ILE:HG22	8:G:366:ARG:N	2.33	0.43
9:X:37:PRO:HD3	9:X:91:HIS:HB2	2.00	0.43
9:X:96:THR:HG23	9:X:97:PRO:O	2.19	0.43
9:X:209:LYS:HD3	9:X:209:LYS:HA	1.86	0.43
9:Y:37:PRO:HD3	9:Y:91:HIS:HB2	2.00	0.43
9:Y:40:PRO:HA	9:Y:88:ARG:CD	2.49	0.43
1:1:62:DT:H2'	1:1:62:DT:H6	1.16	0.43
1:1:89:DA:C2	2:2:37:DT:O2	2.72	0.43
1:1:113:DT:H2"	1:1:114:DC:H5'	2.00	0.43
1:1:117:DG:C6	1:1:118:DG:C2	3.07	0.43
1:1:117:DG:N3	1:1:118:DG:H5'	2.33	0.43
1:1:120:DT:C4	1:1:121:DG:O6	2.72	0.43
2:2:31:DA:C5	2:2:32:DA:C8	3.07	0.43
2:2:32:DA:C2	2:2:33:DA:N3	2.87	0.43
2:2:47:DT:H2"	2:2:48:DT:H6	1.82	0.43
2:2:58:DA:H1'	2:2:59:DG:N9	2.34	0.43
3:A:137:ILE:HD13	3:A:137:ILE:HA	1.41	0.43
3:A:220:GLN:HG2	3:A:221:LYS:HB2	2.00	0.43
3:A:239:TYR:CB	3:A:248:PRO:HB3	2.47	0.43
3:A:351:MET:SD	3:A:352:THR:N	2.92	0.43
3:A:489:ARG:O	3:A:526:TYR:HB2	2.19	0.43
3:A:598:VAL:HG11	3:A:661:GLU:CD	2.43	0.43
3:A:605:GLU:HG3	3:A:636:ARG:NH1	2.33	0.43
3:A:606:ILE:N	3:A:609:ARG:NH2	2.57	0.43
3:A:727:ARG:CZ	3:A:832:ALA:N	2.81	0.43
3:A:733:PRO:CB	3:A:735:GLU:OE2	2.65	0.43
3:A:816:ASP:H	3:A:839:TYR:HB2	1.84	0.43
3:A:884:LEU:HA	3:A:884:LEU:HD23	1.41	0.43
4:B:417:GLN:NE2	4:B:421:GLY:HA2	2.33	0.43
4:B:508:GLY:C	4:B:510:LEU:HD12	2.43	0.43
4:B:560:ASN:O	4:B:560:ASN:OD1	2.37	0.43
4:B:900:LEU:HD22	4:B:905:MET:N	2.34	0.43
4:B:913:LYS:H	4:B:915:LYS:HG2	1.83	0.43
4:B:1128:VAL:O	4:B:1129:TYR:C	2.56	0.43
4:B:1141:ILE:O	4:B:1142:GLU:O	2.37	0.43
5:C:72:ARG:N	5:C:73:GLU:OE1	2.51	0.43
5:C:107:ILE:CD1	5:C:136:LEU:CD1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:86:CYS:O	6:E:89:CYS:O	2.36	0.43
6:E:106:ILE:O	6:E:248:VAL:HG23	2.19	0.43
6:E:139:ILE:HD12	6:E:139:ILE:HG23	1.38	0.43
6:E:316:ASN:H	6:E:333:SER:CB	2.25	0.43
6:E:387:PHE:CD1	6:E:387:PHE:N	2.79	0.43
6:E:535:PHE:CE1	6:E:541:VAL:HA	2.53	0.43
6:E:582:GLY:HA3	6:E:598:GLN:H	1.84	0.43
8:G:231:LEU:HB2	8:G:236:TYR:CE2	2.51	0.43
8:G:375:LYS:HB3	8:G:381:ARG:HH21	1.84	0.43
9:X:196:ASP:HB3	9:X:202:MET:HB3	2.00	0.43
9:Y:47:LEU:CD2	9:Y:69:LEU:HB3	2.40	0.43
1:1:81:DT:O2	1:1:82:DT:C2	2.72	0.43
1:1:86:DG:C2	1:1:87:DA:N3	2.87	0.43
1:1:102:DA:H8	8:G:208:THR:HG21	1.75	0.43
1:1:116:DC:C5	1:1:117:DG:C6	3.07	0.43
2:2:29:DA:N9	2:2:30:DG:C8	2.87	0.43
2:2:68:DT:OP2	2:2:68:DT:H6	2.02	0.43
3:A:27:LEU:O	3:A:28:PRO:C	2.57	0.43
3:A:27:LEU:CD1	3:A:28:PRO:HD2	2.44	0.43
3:A:32:GLU:H	3:A:32:GLU:HG3	1.64	0.43
3:A:391:ASN:O	3:A:391:ASN:OD1	2.37	0.43
3:A:413:GLU:O	3:A:414:ARG:C	2.61	0.43
3:A:474:ASP:O	3:A:475:GLN:C	2.62	0.43
3:A:592:SER:OG	3:A:667:GLN:O	2.36	0.43
3:A:881:ASP:C	3:A:882:ILE:HG13	2.39	0.43
3:A:889:VAL:HG21	3:A:895:VAL:HB	2.01	0.43
3:A:1050:GLU:OE1	3:A:1062:PRO:HG3	2.18	0.43
4:B:42:ARG:O	4:B:43:TYR:C	2.57	0.43
4:B:80:TYR:O	4:B:81:GLN:C	2.60	0.43
4:B:107:ASP:HB3	4:B:353:MET:C	2.43	0.43
4:B:317:ILE:O	4:B:320:ALA:HB3	2.18	0.43
4:B:482:ILE:CG2	4:B:969:GLY:HA2	2.45	0.43
4:B:725:ILE:CG1	4:B:736:LEU:HB3	2.49	0.43
4:B:800:GLU:O	4:B:801:GLN:HB2	2.19	0.43
4:B:846:ALA:HA	4:B:852:SER:CB	2.38	0.43
4:B:855:THR:HA	4:B:873:ARG:CB	2.30	0.43
4:B:910:ILE:HB	4:B:943:VAL:CG2	2.48	0.43
4:B:1123:ASN:C	4:B:1125:VAL:N	2.74	0.43
5:C:218:VAL:HG13	5:D:218:VAL:HG13	2.01	0.43
5:C:221:PHE:O	5:C:224:LEU:HB2	2.19	0.43
5:D:63:HIS:CD2	5:D:64:GLU:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:86:ILE:HG22	5:D:121:ILE:CG1	2.48	0.43
5:D:217:LEU:HD22	5:D:221:PHE:CE2	2.53	0.43
6:E:86:CYS:SG	6:E:89:CYS:N	2.91	0.43
6:E:256:LEU:H	6:E:256:LEU:CD1	2.30	0.43
7:F:59:LEU:HA	7:F:59:LEU:HD13	1.24	0.43
8:G:89:ILE:HG21	8:G:89:ILE:HD13	1.55	0.43
8:G:132:GLU:OE2	8:G:138:GLN:C	2.62	0.43
8:G:133:TRP:CZ2	8:G:136:ALA:HA	2.54	0.43
8:G:146:TYR:O	8:G:147:ARG:C	2.62	0.43
8:G:249:LEU:CB	8:G:262:ILE:HD12	2.48	0.43
8:G:354:ILE:O	8:G:355:GLY:C	2.61	0.43
9:X:43:ARG:HG3	9:X:44:VAL:N	2.30	0.43
9:X:56:ARG:HE	9:X:66:VAL:CG1	2.22	0.43
9:X:64:ILE:HG13	9:X:65:THR:C	2.44	0.43
9:X:198:ARG:O	9:X:199:GLU:C	2.62	0.43
9:Y:38:GLY:H	9:Y:87:ASP:HB2	1.84	0.43
1:1:71:DT:OP1	9:X:145:MET:HE3	2.19	0.43
1:1:85:DG:C6	1:1:86:DG:C5	3.06	0.43
1:1:86:DG:C4	1:1:87:DA:C5	3.07	0.43
1:1:108:DA:H8	1:1:108:DA:H2'	1.64	0.43
1:1:109:DG:O4'	1:1:110:DC:C4	2.71	0.43
1:1:113:DT:C6	1:1:114:DC:N4	2.86	0.43
2:2:35:DA:C2'	2:2:36:DT:H71	2.49	0.43
2:2:36:DT:H6	2:2:36:DT:H2'	1.52	0.43
2:2:51:DT:H4'	2:2:52:DA:OP1	2.13	0.43
3:A:181:ASP:HB2	3:A:308:GLU:OE2	2.19	0.43
3:A:225:LYS:HZ2	3:A:225:LYS:HG3	1.46	0.43
3:A:260:ARG:NH1	3:A:260:ARG:CG	2.80	0.43
3:A:365:VAL:O	3:A:365:VAL:HG13	2.17	0.43
3:A:645:SER:C	3:A:647:GLN:H	2.27	0.43
3:A:683:GLY:O	3:A:978:TYR:CZ	2.71	0.43
3:A:691:MET:C	3:A:886:PRO:HD3	2.43	0.43
3:A:873:TYR:HB2	3:A:877:GLY:O	2.19	0.43
4:B:15:ASN:OD1	4:B:15:ASN:C	2.41	0.43
4:B:146:LEU:CD1	4:B:423:LEU:HD13	2.49	0.43
4:B:149:ASP:HB3	4:B:155:ILE:HG12	2.01	0.43
4:B:258:ALA:O	4:B:259:PRO:C	2.56	0.43
4:B:359:LEU:N	4:B:391:LYS:O	2.51	0.43
4:B:366:ARG:O	4:B:366:ARG:HG3	2.18	0.43
4:B:527:GLU:CB	4:B:530:PRO:HD3	2.49	0.43
4:B:551:VAL:HG13	4:B:562:TYR:HD2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:879:LYS:O	4:B:880:GLU:HB3	2.17	0.43
4:B:964:VAL:HG12	4:B:966:ILE:HB	2.01	0.43
4:B:1035:GLU:OE1	4:B:1052:ILE:HB	2.19	0.43
4:B:1231:TRP:C	4:B:1233:ARG:H	2.26	0.43
5:C:12:ASN:C	5:C:14:GLU:H	2.27	0.43
5:D:32:GLN:HG3	5:D:36:VAL:HG21	2.00	0.43
5:D:182:GLU:OE1	5:D:191:LYS:O	2.37	0.43
5:D:204:ILE:HD13	5:D:204:ILE:HA	1.69	0.43
6:E:30:LEU:HD21	6:E:34:GLN:HG3	2.01	0.43
6:E:76:TYR:CD2	6:E:81:HIS:ND1	2.86	0.43
6:E:224:LEU:HA	6:E:224:LEU:HD13	1.33	0.43
6:E:252:ILE:HA	6:E:252:ILE:HD13	1.24	0.43
6:E:269:THR:CG2	8:G:283:PRO:HB2	2.48	0.43
6:E:513:MET:O	6:E:514:VAL:C	2.57	0.43
6:E:573:PRO:HA	6:E:588:TYR:CE1	2.53	0.43
7:F:65:MET:HA	7:F:69:LEU:HB3	2.01	0.43
8:G:83:ARG:HG3	8:G:87:GLN:NE2	2.34	0.43
8:G:113:LEU:HD22	8:G:147:ARG:NE	2.34	0.43
8:G:315:LYS:HD3	8:G:315:LYS:HA	1.67	0.43
9:X:33:THR:HA	9:X:94:ALA:H	1.84	0.43
9:X:49:LYS:HG3	9:X:50:GLY:N	2.34	0.43
1:1:92:DT:O4	2:2:33:DA:N6	2.52	0.43
2:2:39:DT:H2'	2:2:39:DT:O5'	2.18	0.43
3:A:42:LEU:HA	3:A:42:LEU:HD12	1.22	0.43
3:A:103:ASN:OD1	3:A:107:GLY:HA2	2.19	0.43
3:A:112:GLN:CD	3:A:362:ALA:HB2	2.44	0.43
3:A:123:THR:N	3:A:127:THR:O	2.52	0.43
3:A:184:TRP:HB2	3:A:193:LEU:HD12	1.78	0.43
3:A:271:ARG:O	3:A:272:VAL:C	2.61	0.43
3:A:466:VAL:HA	3:A:471:VAL:HA	2.01	0.43
3:A:659:ILE:C	3:A:661:GLU:OE1	2.62	0.43
3:A:709:VAL:HG23	3:A:714:TYR:O	2.19	0.43
3:A:763:VAL:O	3:A:764:GLU:OE2	2.37	0.43
3:A:788:LEU:HD22	8:G:389:ILE:O	2.18	0.43
3:A:972:VAL:HA	4:B:50:SER:HB2	2.01	0.43
3:A:1038:LEU:HD22	3:A:1038:LEU:HA	1.78	0.43
3:A:1082:LEU:H	6:E:25:TRP:HH2	1.66	0.43
4:B:18:SER:O	4:B:21:PHE:CB	2.67	0.43
4:B:61:SER:N	4:B:108:GLU:CD	2.75	0.43
4:B:72:GLU:HG3	4:B:97:THR:OG1	2.19	0.43
4:B:136:GLN:H	4:B:136:GLN:HG2	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:197:THR:CA	4:B:200:LEU:HD12	2.47	0.43
4:B:383:GLY:H	4:B:392:GLU:CD	2.27	0.43
4:B:651:GLY:HA2	4:B:731:PRO:CD	2.49	0.43
4:B:732:GLU:HG3	4:B:734:PRO:HD3	2.00	0.43
4:B:852:SER:C	4:B:875:GLN:O	2.61	0.43
4:B:884:VAL:CG1	4:B:897:CYS:HB3	2.48	0.43
4:B:926:THR:O	4:B:928:LEU:N	2.52	0.43
4:B:1114:LEU:O	4:B:1118:GLN:HG3	2.19	0.43
4:B:1231:TRP:CG	6:E:11:TYR:CB	2.78	0.43
5:C:79:ILE:HG21	5:C:79:ILE:HD13	1.61	0.43
5:D:210:LEU:HA	5:D:210:LEU:HD23	1.28	0.43
6:E:31:PRO:C	6:E:33:GLY:H	2.26	0.43
6:E:197:LEU:O	6:E:198:ALA:C	2.61	0.43
6:E:362:ILE:C	6:E:363:VAL:HG13	2.43	0.43
6:E:387:PHE:H	6:E:387:PHE:HD1	1.63	0.43
6:E:574:VAL:HG12	6:E:575:LYS:HG3	2.01	0.43
6:E:582:GLY:N	6:E:598:GLN:H	2.17	0.43
6:E:597:ALA:O	6:E:598:GLN:C	2.62	0.43
8:G:81:SER:OG	8:G:82:ILE:N	2.52	0.43
8:G:95:LEU:HD13	8:G:161:SER:HB2	1.99	0.43
8:G:117:ARG:CB	8:G:129:ARG:HH21	2.32	0.43
8:G:122:GLU:C	8:G:126:ARG:HH21	2.07	0.43
8:G:132:GLU:OE2	8:G:137:VAL:O	2.37	0.43
8:G:141:LEU:N	8:G:142:PRO:HD2	2.34	0.43
8:G:190:GLY:O	8:G:192:ILE:N	2.51	0.43
8:G:228:THR:H	8:G:228:THR:HG23	1.51	0.43
9:X:48:LEU:O	9:X:71:GLU:HA	2.19	0.43
9:X:167:GLY:O	9:X:169:THR:HG23	2.19	0.43
9:X:206:HIS:O	9:X:207:LYS:HB2	2.19	0.43
9:Y:77:VAL:HA	9:Y:80:LEU:CD2	2.45	0.43
9:Y:201:LYS:O	9:Y:213:HIS:ND1	2.48	0.43
9:Y:201:LYS:O	9:Y:218:LEU:CB	2.67	0.43
2:2:49:DT:P	9:X:176:HIS:NE2	2.90	0.42
2:2:59:DG:C5	2:2:60:DC:N4	2.87	0.42
2:2:67:DA:O5'	2:2:67:DA:C8	2.72	0.42
3:A:56:ILE:C	3:A:57:THR:HG1	2.24	0.42
3:A:64:GLU:HG2	3:A:65:LEU:N	2.33	0.42
3:A:70:HIS:ND1	3:A:71:ASN:CG	2.76	0.42
3:A:82:GLU:H	3:A:82:GLU:HG2	1.53	0.42
3:A:140:GLN:NE2	3:A:326:ARG:HH21	2.17	0.42
3:A:153:ILE:CD1	3:A:159:ARG:HG3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:196:GLN:OE1	3:A:229:PHE:HE2	1.98	0.42
3:A:198:LEU:CD2	3:A:298:LEU:HB3	2.46	0.42
3:A:206:ASP:HB2	3:A:210:PHE:HD1	1.84	0.42
3:A:278:ASN:O	3:A:281:LEU:N	2.52	0.42
3:A:330:GLU:HA	3:A:333:GLN:HB3	2.00	0.42
3:A:366:ASN:OD1	3:A:367:PRO:N	2.52	0.42
3:A:402:LEU:H	3:A:402:LEU:HG	1.67	0.42
3:A:429:ARG:NH2	3:A:483:ASP:C	2.77	0.42
3:A:435:THR:C	3:A:436:PRO:O	2.60	0.42
3:A:464:ARG:O	3:A:526:TYR:HD1	2.02	0.42
3:A:575:GLY:O	3:A:915:LYS:HA	2.19	0.42
3:A:585:ASP:N	3:A:585:ASP:OD1	2.46	0.42
3:A:593:ARG:HD3	3:A:593:ARG:HA	1.75	0.42
3:A:745:GLU:C	3:A:747:ALA:N	2.76	0.42
3:A:820:PHE:HA	3:A:824:GLN:HB2	2.01	0.42
3:A:912:VAL:HG21	3:A:914:PHE:HE1	1.82	0.42
3:A:938:GLU:HG3	3:A:938:GLU:H	1.55	0.42
3:A:1077:LEU:HA	3:A:1077:LEU:HD23	1.13	0.42
3:A:1079:SER:OG	3:A:1079:SER:O	2.12	0.42
4:B:63:ARG:O	4:B:64:SER:C	2.62	0.42
4:B:157:LEU:HG	4:B:157:LEU:O	2.18	0.42
4:B:479:LEU:HB3	4:B:481:TRP:CZ2	2.54	0.42
4:B:550:THR:H	4:B:566:THR:CA	2.32	0.42
4:B:564:ILE:O	4:B:566:THR:HG23	2.19	0.42
4:B:604:LEU:C	4:B:606:PHE:N	2.77	0.42
4:B:629:LEU:O	4:B:743:GLU:HA	2.19	0.42
4:B:677:LYS:HE3	4:B:677:LYS:HB3	1.72	0.42
4:B:810:SER:HB2	4:B:811:PRO:HD3	2.00	0.42
4:B:1107:TYR:N	4:B:1107:TYR:CD1	2.83	0.42
5:C:75:VAL:CG1	5:C:76:LEU:N	2.79	0.42
5:C:79:ILE:HG23	5:C:79:ILE:H	1.42	0.42
5:D:4:PHE:CE1	5:D:32:GLN:HG2	2.54	0.42
5:D:9:VAL:HG13	5:D:22:LYS:C	2.43	0.42
5:D:149:ARG:HD2	5:D:150:THR:O	2.19	0.42
5:D:157:GLU:CD	5:D:157:GLU:N	2.76	0.42
5:D:200:THR:C	5:D:202:GLY:H	2.27	0.42
5:D:213:ALA:O	5:D:215:GLY:N	2.52	0.42
5:D:219:ASP:HB3	5:D:220:LEU:H	1.49	0.42
6:E:31:PRO:CD	6:E:32:ASN:H	2.32	0.42
6:E:135:ASP:CB	6:E:161:LEU:HD11	2.49	0.42
6:E:221:ARG:O	6:E:224:LEU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:266:ARG:CZ	8:G:284:ILE:HD11	2.49	0.42
6:E:285:ARG:HH11	6:E:285:ARG:HD3	1.66	0.42
6:E:411:ASN:HA	6:E:415:VAL:HG21	2.01	0.42
6:E:507:ILE:C	6:E:508:THR:OG1	2.62	0.42
8:G:128:PRO:HB2	8:G:134:ALA:HA	2.01	0.42
8:G:288:THR:HG23	8:G:298:LEU:HD13	2.00	0.42
1:1:85:DG:N3	1:1:86:DG:C5'	2.80	0.42
1:1:94:DT:O2	1:1:95:DT:C6	2.72	0.42
1:1:106:DG:O6	8:G:83:ARG:HB2	2.19	0.42
2:2:3:DT:C1'	2:2:4:DG:C6	3.01	0.42
2:2:48:DT:N1	2:2:49:DT:C5	2.87	0.42
2:2:50:DG:H1'	2:2:51:DT:C5'	2.29	0.42
2:2:65:DA:H4'	2:2:66:DA:OP1	2.19	0.42
3:A:80:SER:O	3:A:81:VAL:C	2.55	0.42
3:A:104:LYS:CD	4:B:559:ARG:NH1	2.81	0.42
3:A:151:SER:CB	3:A:161:TYR:HA	2.49	0.42
3:A:180:ASN:OD1	3:A:181:ASP:CA	2.66	0.42
3:A:441:ALA:C	3:A:443:LEU:N	2.76	0.42
3:A:469:GLY:HA3	3:A:521:PRO:C	2.44	0.42
3:A:489:ARG:N	3:A:489:ARG:HD2	2.34	0.42
3:A:854:GLY:H	3:A:858:ASN:HB2	1.83	0.42
4:B:89:GLU:C	4:B:91:PHE:N	2.75	0.42
4:B:119:LEU:HD21	6:E:522:ALA:CB	2.49	0.42
4:B:195:TYR:CG	4:B:199:ARG:NH1	2.86	0.42
4:B:210:ARG:N	4:B:210:ARG:CD	2.66	0.42
4:B:220:ILE:HD12	4:B:221:PRO:HD2	2.02	0.42
4:B:260:ARG:HG3	4:B:260:ARG:NH1	2.34	0.42
4:B:396:THR:HB	4:B:401:GLU:OE1	2.19	0.42
4:B:445:VAL:HG13	4:B:972:TYR:CD2	2.53	0.42
4:B:487:VAL:C	4:B:879:LYS:NZ	2.74	0.42
4:B:519:HIS:O	4:B:865:ILE:CB	2.67	0.42
4:B:550:THR:H	4:B:566:THR:N	2.16	0.42
4:B:564:ILE:CG2	4:B:572:PHE:HB2	2.48	0.42
4:B:659:GLU:OE2	4:B:666:CYS:N	2.52	0.42
4:B:723:ARG:CD	4:B:738:SER:HB3	2.36	0.42
4:B:725:ILE:HD12	4:B:738:SER:OG	2.19	0.42
4:B:885:ARG:HH22	4:B:967:ARG:NH2	2.17	0.42
4:B:915:LYS:HB3	4:B:916:VAL:CG2	2.49	0.42
5:C:40:LEU:H	5:C:40:LEU:HG	1.54	0.42
5:C:68:VAL:CG1	5:C:71:VAL:HG11	2.48	0.42
5:C:100:LEU:HD12	5:C:135:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:218:VAL:O	5:C:219:ASP:C	2.57	0.42
5:D:62:SER:OG	5:D:63:HIS:CG	2.67	0.42
6:E:45:ILE:H	6:E:45:ILE:HG13	1.47	0.42
6:E:133:LEU:C	6:E:135:ASP:N	2.75	0.42
6:E:144:SER:O	6:E:145:TYR:CD1	2.72	0.42
6:E:240:LYS:HG3	6:E:242:GLU:HG2	2.01	0.42
6:E:534:TYR:HE2	6:E:605:TYR:CD2	2.37	0.42
6:E:551:ASP:O	6:E:552:LEU:C	2.62	0.42
6:E:588:TYR:HD2	6:E:591:ARG:HB3	1.84	0.42
8:G:89:ILE:HG13	8:G:90:GLY:N	2.34	0.42
8:G:102:GLU:O	8:G:103:LEU:C	2.58	0.42
8:G:169:ILE:HG22	8:G:173:TYR:HE2	1.84	0.42
9:X:154:LEU:CD1	9:X:215:PRO:HA	2.49	0.42
9:X:170:ILE:HG22	9:X:171:ASP:C	2.43	0.42
9:X:180:ALA:CA	9:X:185:SER:HB3	2.41	0.42
9:Y:25:VAL:O	9:Y:25:VAL:HG12	2.19	0.42
1:1:74:DT:H71	1:1:74:DT:OP2	2.19	0.42
1:1:85:DG:C6	2:2:40:DC:N4	2.81	0.42
2:2:3:DT:H1'	2:2:4:DG:OP1	2.19	0.42
2:2:11:DT:C6	2:2:12:DG:N1	2.87	0.42
3:A:64:GLU:O	3:A:102:LEU:HD22	2.18	0.42
3:A:66:HIS:CD2	3:A:66:HIS:C	2.97	0.42
3:A:96:TYR:CZ	3:A:115:PHE:CD1	3.08	0.42
3:A:104:LYS:HD2	4:B:559:ARG:HD2	2.01	0.42
3:A:185:VAL:HG11	3:A:200:LYS:HZ1	1.84	0.42
3:A:215:HIS:CE1	3:A:309:TYR:CZ	3.07	0.42
3:A:252:GLY:CA	3:A:255:GLN:HE22	2.30	0.42
3:A:429:ARG:NH2	3:A:481:THR:O	2.52	0.42
3:A:547:HIS:O	3:A:548:ASP:OD1	2.38	0.42
3:A:572:PRO:HB3	3:A:978:TYR:CE2	2.53	0.42
3:A:640:SER:O	3:A:652:ASN:HA	2.18	0.42
3:A:682:LEU:N	3:A:682:LEU:HD22	2.29	0.42
3:A:686:ILE:O	3:A:686:ILE:HG13	2.07	0.42
3:A:727:ARG:HH22	3:A:829:PRO:HB2	1.83	0.42
3:A:740:ILE:H	3:A:748:LEU:HD21	1.84	0.42
3:A:746:ASP:O	3:A:768:ILE:HG12	2.20	0.42
3:A:787:LEU:H	3:A:787:LEU:HG	1.43	0.42
3:A:789:ARG:HH22	3:A:795:LYS:HG2	1.85	0.42
3:A:848:VAL:H	3:A:848:VAL:HG12	1.70	0.42
3:A:940:ARG:O	3:A:944:GLY:N	2.48	0.42
3:A:1088:LYS:CG	3:A:1089:VAL:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:32:MET:C	4:B:34:ASP:N	2.72	0.42
4:B:72:GLU:C	4:B:72:GLU:CD	2.87	0.42
4:B:193:SER:C	4:B:195:TYR:N	2.73	0.42
4:B:230:LYS:HZ3	4:B:231:THR:C	2.19	0.42
4:B:277:VAL:CG1	4:B:278:ALA:H	2.31	0.42
4:B:311:LEU:CD1	4:B:1251:TYR:OH	2.67	0.42
4:B:455:PHE:CA	4:B:481:TRP:CE3	2.94	0.42
4:B:513:THR:HG21	4:B:874:THR:HB	2.01	0.42
4:B:575:ARG:HH11	4:B:575:ARG:HG2	1.84	0.42
4:B:642:ASP:HA	4:B:680:ILE:CB	2.47	0.42
4:B:906:ALA:H	4:B:967:ARG:HA	1.83	0.42
4:B:1130:GLN:OE1	4:B:1133:GLY:HA2	2.19	0.42
4:B:1228:LYS:HG3	4:B:1228:LYS:O	2.18	0.42
5:C:116:SER:C	5:C:118:VAL:H	2.27	0.42
5:C:145:GLY:HA3	5:C:170:PHE:CZ	2.54	0.42
5:D:76:LEU:H	5:D:76:LEU:CD1	2.26	0.42
5:D:83:LYS:HZ2	5:D:168:SER:CA	2.32	0.42
5:D:208:GLU:CG	5:D:209:ALA:N	2.78	0.42
6:E:53:GLU:HG3	6:E:56:GLY:N	2.34	0.42
6:E:105:TYR:CD2	6:E:105:TYR:C	2.91	0.42
6:E:127:ILE:O	6:E:227:ARG:NH1	2.52	0.42
6:E:148:LEU:HD22	6:E:148:LEU:HA	1.72	0.42
6:E:284:ASN:O	6:E:287:ALA:N	2.52	0.42
7:F:17:ARG:CD	7:F:67:ASP:HB3	2.49	0.42
8:G:115:ARG:CA	8:G:118:GLU:HG3	2.49	0.42
8:G:340:ARG:N	8:G:354:ILE:CD1	2.79	0.42
9:X:25:VAL:N	9:X:101:LEU:HD13	2.34	0.42
9:X:29:GLU:N	9:X:32:LYS:HD2	2.34	0.42
9:X:55:SER:OG	9:X:93:VAL:HG21	2.19	0.42
9:X:58:TYR:CG	9:X:59:GLU:N	2.86	0.42
9:X:77:VAL:O	9:X:78:LEU:HD23	2.19	0.42
9:X:108:VAL:O	9:X:108:VAL:CG1	2.68	0.42
9:X:134:GLU:O	9:X:137:ILE:HB	2.19	0.42
9:X:142:HIS:C	9:X:143:ARG:HG3	2.45	0.42
9:X:163:PRO:HA	9:X:168:ILE:HA	2.00	0.42
9:Y:150:VAL:HA	9:Y:153:LEU:HD12	2.00	0.42
9:Y:206:HIS:N	9:Y:209:LYS:H	2.01	0.42
1:1:80:DA:C5	1:1:81:DT:C4	3.08	0.42
2:2:43:DG:C2	2:2:44:DA:C4	3.07	0.42
3:A:47:ILE:HD12	3:A:47:ILE:HG23	1.77	0.42
3:A:91:TYR:HE2	3:A:121:LEU:HG	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:135:ARG:CZ	3:A:384:SER:OG	2.67	0.42
3:A:235:LEU:HD22	3:A:250:VAL:HB	2.02	0.42
3:A:310:ASP:C	3:A:311:ILE:HD13	2.44	0.42
3:A:566:LEU:H	3:A:569:PRO:CG	2.33	0.42
3:A:592:SER:HA	3:A:669:LEU:HD11	2.01	0.42
3:A:603:ALA:HA	3:A:655:PRO:CD	2.49	0.42
3:A:633:GLN:OE1	3:A:635:ILE:HD11	2.19	0.42
3:A:931:ILE:H	3:A:931:ILE:HG13	1.67	0.42
3:A:943:THR:O	3:A:944:GLY:C	2.59	0.42
3:A:1023:TRP:CB	6:E:436:LEU:HD12	2.49	0.42
3:A:1038:LEU:HA	3:A:1038:LEU:HD13	1.26	0.42
3:A:1069:SER:O	3:A:1070:PHE:C	2.56	0.42
4:B:194:GLY:O	4:B:198:ARG:HG3	2.20	0.42
4:B:271:GLU:O	4:B:274:LYS:C	2.62	0.42
4:B:458:VAL:HG21	4:B:478:GLY:N	2.33	0.42
4:B:482:ILE:HG13	4:B:483:LEU:O	2.19	0.42
4:B:546:LEU:H	4:B:830:LEU:N	2.12	0.42
4:B:629:LEU:N	4:B:743:GLU:CD	2.78	0.42
4:B:646:LEU:N	4:B:662:LYS:HD3	2.32	0.42
4:B:659:GLU:OE1	4:B:661:VAL:N	2.52	0.42
4:B:660:VAL:O	4:B:660:VAL:HG13	2.18	0.42
4:B:687:LYS:HE2	4:B:739:ARG:NH1	2.34	0.42
4:B:703:ARG:HH12	4:B:708:LEU:HD13	1.85	0.42
4:B:795:LEU:N	4:B:795:LEU:CD1	2.72	0.42
4:B:815:ASP:HA	4:B:834:ILE:HG22	2.01	0.42
4:B:854:GLN:C	4:B:855:THR:CG2	2.92	0.42
4:B:917:LYS:O	4:B:942:GLY:HA2	2.20	0.42
4:B:1022:LYS:N	4:B:1023:PRO:HD3	2.34	0.42
4:B:1129:TYR:O	4:B:1133:GLY:N	2.52	0.42
4:B:1177:ASN:O	4:B:1187:ARG:NH2	2.53	0.42
4:B:1178:GLU:O	4:B:1182:ILE:HG12	2.19	0.42
5:C:27:PRO:HD2	5:C:28:LEU:H	1.84	0.42
5:C:70:GLY:O	5:C:131:ALA:N	2.52	0.42
6:E:22:ILE:HA	6:E:25:TRP:CE3	2.53	0.42
6:E:23:ARG:CG	6:E:248:VAL:HG21	2.49	0.42
6:E:145:TYR:CD1	6:E:145:TYR:N	2.83	0.42
7:F:13:GLN:O	7:F:14:ILE:C	2.62	0.42
7:F:35:VAL:O	7:F:36:ALA:C	2.59	0.42
8:G:88:GLU:CD	8:G:89:ILE:N	2.76	0.42
8:G:89:ILE:HG23	8:G:89:ILE:H	1.41	0.42
8:G:113:LEU:O	8:G:117:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:132:GLU:OE1	8:G:135:GLU:OE2	2.37	0.42
8:G:185:GLN:OE1	8:G:185:GLN:CA	2.54	0.42
8:G:315:LYS:H	8:G:315:LYS:HG2	1.48	0.42
8:G:316:ASN:HA	8:G:319:ARG:HD3	1.97	0.42
8:G:348:MET:HE2	8:G:348:MET:HB2	1.94	0.42
8:G:366:ARG:HB2	8:G:366:ARG:HH11	1.83	0.42
9:X:27:THR:HG1	9:X:98:VAL:C	2.09	0.42
9:X:99:GLU:C	9:X:100:LEU:HG	2.44	0.42
9:X:115:ASN:CG	9:X:118:LEU:HG	2.44	0.42
9:Y:163:PRO:HA	9:Y:168:ILE:HA	2.00	0.42
9:Y:197:LEU:HD12	9:Y:198:ARG:H	1.73	0.42
1:1:62:DT:H1'	1:1:63:DG:P	2.59	0.42
1:1:88:DA:N1	2:2:37:DT:N3	2.68	0.42
1:1:97:DT:O2	1:1:98:DG:C5	2.72	0.42
1:1:108:DA:N9	1:1:109:DG:C6	2.87	0.42
1:1:113:DT:OP1	1:1:113:DT:H6	2.03	0.42
3:A:101:LEU:HA	3:A:109:ILE:CA	2.42	0.42
3:A:135:ARG:HB3	3:A:385:GLN:O	2.19	0.42
3:A:168:ASN:HB3	3:A:268:ASP:OD2	2.19	0.42
3:A:257:LEU:HD12	3:A:258:ASP:HA	2.02	0.42
3:A:294:SER:HA	3:A:297:ILE:CD1	2.50	0.42
3:A:320:LEU:O	3:A:323:ARG:HB3	2.19	0.42
3:A:335:GLN:OE1	3:A:336:VAL:N	2.52	0.42
3:A:430:ILE:HD13	3:A:430:ILE:HA	1.58	0.42
3:A:502:TYR:C	3:A:503:ILE:O	2.52	0.42
3:A:609:ARG:HA	3:A:635:ILE:HD11	1.97	0.42
3:A:624:ASN:CB	3:A:627:LEU:HB3	2.44	0.42
3:A:724:ILE:HA	3:A:724:ILE:HD12	1.69	0.42
3:A:757:ILE:HD12	3:A:757:ILE:HG23	1.57	0.42
3:A:772:LYS:CG	3:A:773:VAL:N	2.82	0.42
3:A:792:PHE:N	3:A:792:PHE:CD1	2.82	0.42
3:A:813:ARG:HA	3:A:813:ARG:HD3	1.58	0.42
3:A:867:PRO:HD2	3:A:870:ASP:OD2	2.20	0.42
3:A:902:LEU:HA	3:A:902:LEU:HD22	1.87	0.42
4:B:71:GLU:HA	4:B:74:ARG:NH1	2.27	0.42
4:B:348:GLN:C	4:B:350:ARG:N	2.77	0.42
4:B:447:SER:HB2	4:B:988:VAL:HB	2.01	0.42
4:B:455:PHE:CD2	4:B:480:ILE:HG23	2.54	0.42
4:B:483:LEU:HD23	4:B:969:GLY:CA	2.45	0.42
4:B:511:ALA:HB3	4:B:876:ILE:CG2	2.49	0.42
4:B:572:PHE:HB3	4:B:589:ALA:CB	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:895:ARG:HB2	4:B:896:ARG:NH1	2.33	0.42
4:B:920:ASP:O	4:B:938:GLY:O	2.38	0.42
4:B:1081:GLN:OE1	4:B:1083:LEU:HA	2.19	0.42
4:B:1097:PHE:O	4:B:1101:GLY:HA3	2.20	0.42
4:B:1120:PHE:O	4:B:1121:LEU:C	2.62	0.42
4:B:1157:GLY:HA2	4:B:1188:ALA:HB2	2.00	0.42
4:B:1204:THR:O	4:B:1205:ASP:C	2.63	0.42
4:B:1245:ILE:HG22	4:B:1247:ALA:N	2.14	0.42
5:C:63:HIS:HD2	5:C:65:PHE:HD2	1.66	0.42
5:C:63:HIS:HE2	5:C:65:PHE:HB2	1.85	0.42
5:C:149:ARG:NH1	5:C:170:PHE:CE2	2.86	0.42
5:D:68:VAL:CG1	5:D:71:VAL:HG11	2.48	0.42
5:D:170:PHE:O	5:D:172:PRO:HD3	2.20	0.42
6:E:195:ARG:H	6:E:195:ARG:HG2	1.72	0.42
6:E:389:ILE:HG21	6:E:389:ILE:HD13	1.49	0.42
6:E:438:ARG:HH21	6:E:500:PRO:CB	2.15	0.42
6:E:492:LEU:O	6:E:495:ASN:N	2.53	0.42
7:F:32:THR:C	7:F:34:GLN:N	2.72	0.42
8:G:83:ARG:HD3	8:G:83:ARG:HA	1.69	0.42
8:G:267:GLU:C	8:G:268:MET:HG2	2.44	0.42
8:G:286:LEU:HD12	8:G:286:LEU:HA	1.37	0.42
8:G:351:LEU:CA	8:G:354:ILE:CG2	2.64	0.42
9:X:25:VAL:O	9:X:25:VAL:HG12	2.19	0.42
9:X:69:LEU:HA	9:X:70:ARG:NH1	2.32	0.42
9:X:159:ASP:C	9:X:160:PHE:HD1	2.28	0.42
9:X:202:MET:CE	9:X:219:SER:HB3	2.27	0.42
9:Y:25:VAL:N	9:Y:101:LEU:HD13	2.34	0.42
9:Y:43:ARG:CB	9:Y:105:ILE:HG13	2.48	0.42
9:Y:62:GLU:OE2	9:Y:64:ILE:HG12	2.19	0.42
1:1:74:DT:C2	1:1:75:DA:N7	2.88	0.42
1:1:77:DA:H3'	1:1:77:DA:P	2.59	0.42
1:1:110:DC:O2	1:1:110:DC:O4'	2.38	0.42
2:2:5:DC:P	2:2:5:DC:H2'	2.60	0.42
2:2:66:DA:C1'	2:2:67:DA:N6	2.83	0.42
3:A:59:TYR:CE1	3:A:352:THR:HB	2.55	0.42
3:A:59:TYR:HE1	3:A:348:ARG:C	2.27	0.42
3:A:130:ILE:HG21	3:A:130:ILE:HD13	1.53	0.42
3:A:215:HIS:CA	3:A:219:PHE:H	2.33	0.42
3:A:236:MET:HB3	3:A:240:ARG:HD3	2.02	0.42
3:A:293:THR:HG1	3:A:296:ASP:H	1.68	0.42
3:A:298:LEU:O	3:A:301:VAL:CG2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:422:ILE:O	3:A:423:HIS:C	2.57	0.42
3:A:490:VAL:HA	3:A:526:TYR:HB2	2.01	0.42
3:A:1017:PHE:CZ	3:A:1025:LEU:CG	3.03	0.42
3:A:1040:VAL:H	3:A:1040:VAL:HG22	1.62	0.42
3:A:1044:ASP:CB	3:A:1047:GLY:HA3	2.49	0.42
3:A:1075:ARG:O	3:A:1078:GLN:HB2	2.19	0.42
4:B:21:PHE:O	4:B:24:TYR:N	2.47	0.42
4:B:93:LYS:C	4:B:96:ASP:H	2.27	0.42
4:B:149:ASP:CB	4:B:150:PRO:HD2	2.41	0.42
4:B:158:PRO:HD2	4:B:160:LYS:NZ	2.35	0.42
4:B:230:LYS:HD2	4:B:231:THR:H	1.83	0.42
4:B:233:ILE:HG22	4:B:234:LYS:O	2.20	0.42
4:B:294:VAL:HG21	4:B:299:TYR:HD1	1.85	0.42
4:B:326:PRO:C	4:B:328:THR:N	2.74	0.42
4:B:332:MET:HE1	4:B:1007:ILE:HG13	2.02	0.42
4:B:384:ILE:HB	4:B:393:GLY:CA	2.50	0.42
4:B:552:THR:O	4:B:561:ASN:O	2.38	0.42
4:B:707:LEU:CA	4:B:724:TYR:HA	2.49	0.42
4:B:712:GLU:CD	4:B:713:GLU:N	2.78	0.42
4:B:1132:GLN:HB2	4:B:1134:ILE:HG12	2.02	0.42
5:C:73:GLU:HB3	5:C:77:GLU:CD	2.44	0.42
5:C:86:ILE:HG22	5:C:121:ILE:CG1	2.48	0.42
5:C:216:ILE:O	5:C:220:LEU:HD12	2.19	0.42
5:D:73:GLU:CD	5:D:129:THR:H	2.27	0.42
5:D:74:ASP:OD1	5:D:74:ASP:C	2.56	0.42
5:D:98:ARG:HA	5:D:98:ARG:HD3	1.63	0.42
5:D:174:ARG:HA	6:E:543:MET:HE3	2.00	0.42
6:E:62:ILE:C	6:E:63:PHE:HD1	2.28	0.42
6:E:123:SER:O	6:E:124:TYR:C	2.63	0.42
8:G:140:PRO:O	8:G:141:LEU:C	2.62	0.42
9:X:26:GLU:OE2	9:X:101:LEU:C	2.63	0.42
9:Y:167:GLY:O	9:Y:169:THR:HG23	2.19	0.42
9:Y:170:ILE:O	9:Y:210:ILE:O	2.38	0.42
1:1:74:DT:OP2	1:1:74:DT:H6	2.03	0.42
1:1:89:DA:N1	1:1:90:DA:C2	2.87	0.42
1:1:92:DT:O2	1:1:93:DT:C6	2.72	0.42
2:2:47:DT:H2"	2:2:48:DT:C6	2.55	0.42
3:A:53:PHE:CD2	3:A:340:LEU:CD1	3.02	0.42
3:A:75:LYS:O	3:A:93:VAL:HG22	2.20	0.42
3:A:202:LEU:HB2	3:A:207:ASN:ND2	2.35	0.42
3:A:203:GLY:C	3:A:205:SER:N	2.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:275:TYR:O	3:A:276:LYS:C	2.62	0.42
3:A:282:ARG:C	3:A:283:LEU:O	2.53	0.42
3:A:397:THR:HG21	3:A:561:ARG:HD3	2.02	0.42
3:A:545:LEU:HA	3:A:545:LEU:HD12	1.22	0.42
3:A:631:LYS:HG3	3:A:632:GLY:C	2.45	0.42
3:A:727:ARG:CZ	3:A:831:GLY:C	2.92	0.42
3:A:802:ASN:C	3:A:803:SER:O	2.61	0.42
3:A:873:TYR:HA	3:A:880:VAL:H	1.84	0.42
3:A:1004:GLN:O	3:A:1005:PRO:O	2.37	0.42
3:A:1044:ASP:O	3:A:1045:MET:O	2.38	0.42
3:A:1050:GLU:O	3:A:1051:ALA:C	2.53	0.42
3:A:1080:LEU:HD21	6:E:334:LEU:HD12	2.01	0.42
4:B:29:THR:O	4:B:30:ALA:O	2.37	0.42
4:B:29:THR:HG23	4:B:29:THR:H	1.41	0.42
4:B:184:VAL:O	4:B:188:LEU:HG	2.20	0.42
4:B:360:PRO:C	4:B:390:ARG:HG2	2.45	0.42
4:B:411:TYR:O	4:B:424:LEU:HB3	2.20	0.42
4:B:521:GLY:CA	4:B:864:THR:HA	2.50	0.42
4:B:544:VAL:HG22	4:B:758:VAL:N	2.16	0.42
4:B:553:VAL:HA	4:B:561:ASN:OD1	2.19	0.42
4:B:842:ARG:O	4:B:843:ASP:HB2	2.20	0.42
4:B:1037:LYS:HE3	4:B:1051:VAL:HA	2.01	0.42
4:B:1159:ASP:OD2	4:B:1180:MET:CE	2.67	0.42
4:B:1160:THR:H	4:B:1180:MET:HE1	1.73	0.42
5:C:53:VAL:H	5:C:53:VAL:HG23	1.53	0.42
5:C:86:ILE:O	5:C:87:LEU:HD23	2.20	0.42
5:C:166:ILE:HG23	5:C:167:ASP:O	2.20	0.42
5:D:6:ILE:HG12	5:D:25:LEU:HG	2.01	0.42
5:D:57:ARG:HG3	5:D:139:GLU:HG2	2.01	0.42
6:E:140:VAL:CG2	6:E:141:TYR:CD2	3.01	0.42
6:E:175:TYR:HA	6:E:180:GLN:HB3	2.01	0.42
6:E:200:ILE:H	6:E:200:ILE:HG23	1.26	0.42
6:E:267:PHE:HD2	8:G:281:GLN:NE2	2.14	0.42
7:F:17:ARG:HB3	7:F:66:SER:HB2	2.01	0.42
8:G:127:ASP:O	8:G:127:ASP:OD1	2.37	0.42
8:G:138:GLN:O	8:G:139:LEU:HB2	2.20	0.42
8:G:320:GLU:CG	8:G:321:ASP:N	2.81	0.42
8:G:331:PRO:HD3	8:G:334:ARG:CZ	2.49	0.42
9:X:47:LEU:CD2	9:X:69:LEU:CA	2.96	0.42
9:Y:149:LEU:O	9:Y:150:VAL:C	2.63	0.42
1:1:88:DA:C2	1:1:89:DA:N3	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:95:DT:N3	1:1:96:DC:C5	2.88	0.42
3:A:53:PHE:CZ	3:A:344:GLU:HB2	2.52	0.42
3:A:181:ASP:CG	3:A:308:GLU:OE1	2.63	0.42
3:A:240:ARG:C	3:A:241:LYS:HG3	2.44	0.42
3:A:596:GLY:HA3	3:A:615:PRO:C	2.45	0.42
3:A:907:GLY:HA2	3:A:910:LEU:HB2	2.02	0.42
3:A:1018:GLY:O	3:A:1021:GLU:HB2	2.20	0.42
4:B:9:ASP:HB3	6:E:518:TYR:HB2	2.02	0.42
4:B:43:TYR:HD1	4:B:43:TYR:HA	0.99	0.42
4:B:66:LEU:HD21	4:B:143:MET:SD	2.60	0.42
4:B:189:ARG:O	4:B:190:THR:C	2.60	0.42
4:B:250:HIS:CB	4:B:254:LYS:CG	2.97	0.42
4:B:388:GLU:HG3	4:B:400:GLN:HB3	2.01	0.42
4:B:419:LYS:CE	4:B:420:LYS:HE2	2.50	0.42
4:B:455:PHE:H	4:B:984:ASP:HA	1.84	0.42
4:B:489:ASN:HB3	4:B:850:GLN:CA	2.49	0.42
4:B:514:LYS:NZ	4:B:873:ARG:NH1	2.53	0.42
4:B:575:ARG:NE	4:B:590:GLU:OE1	2.53	0.42
4:B:582:VAL:HG22	4:B:586:GLN:CB	2.50	0.42
4:B:604:LEU:CA	4:B:631:TRP:CE3	3.03	0.42
4:B:609:VAL:HG12	4:B:610:GLU:N	2.35	0.42
4:B:672:VAL:HG23	4:B:685:VAL:C	2.45	0.42
4:B:713:GLU:H	4:B:713:GLU:HG3	1.51	0.42
4:B:885:ARG:CZ	4:B:898:LEU:HD21	2.50	0.42
4:B:902:HIS:O	4:B:907:THR:N	2.52	0.42
4:B:939:GLN:OE1	4:B:941:VAL:HB	2.20	0.42
4:B:981:GLN:H	4:B:995:VAL:HA	1.85	0.42
4:B:1167:LEU:HD11	4:B:1193:VAL:HG21	2.02	0.42
4:B:1180:MET:HB2	4:B:1187:ARG:NH2	2.26	0.42
5:C:38:ASN:O	5:C:40:LEU:N	2.53	0.42
5:C:57:ARG:HG3	5:C:139:GLU:HG2	2.01	0.42
5:C:200:THR:C	5:C:202:GLY:H	2.27	0.42
5:C:219:ASP:O	5:C:220:LEU:C	2.61	0.42
5:D:86:ILE:O	5:D:87:LEU:HD23	2.20	0.42
6:E:197:LEU:N	6:E:197:LEU:CD1	2.82	0.42
6:E:255:ASP:C	6:E:257:ARG:H	2.26	0.42
6:E:279:VAL:O	6:E:280:ILE:C	2.56	0.42
6:E:506:ILE:O	6:E:506:ILE:CG1	2.68	0.42
6:E:589:LYS:O	6:E:590:TYR:CG	2.73	0.42
7:F:39:ALA:HA	7:F:42:ARG:CG	2.49	0.42
8:G:98:ASP:O	8:G:101:ILE:HB	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:196:GLU:HG3	8:G:196:GLU:H	1.53	0.42
8:G:196:GLU:OE2	8:G:197:LYS:N	2.53	0.42
9:X:56:ARG:NH1	9:X:90:TYR:CE2	2.83	0.42
1:1:75:DA:N1	2:2:52:DA:N3	2.68	0.42
1:1:91:DT:H6	1:1:91:DT:H2'	1.44	0.42
1:1:99:DT:H2"	8:G:212:TRP:CD2	2.55	0.42
2:2:7:DT:H6	2:2:7:DT:H2'	1.67	0.42
2:2:59:DG:C3'	2:2:60:DC:H6	2.33	0.42
3:A:40:TRP:CG	3:A:41:PHE:N	2.76	0.42
3:A:44:GLU:C	3:A:44:GLU:CD	2.88	0.42
3:A:109:ILE:O	3:A:110:LYS:C	2.61	0.42
3:A:147:VAL:CG2	3:A:148:TYR:N	2.81	0.42
3:A:163:ALA:C	3:A:164:SER:OG	2.62	0.42
3:A:296:ASP:CG	3:A:297:ILE:N	2.78	0.42
3:A:338:VAL:HG23	3:A:339:GLY:N	2.34	0.42
3:A:535:VAL:HB	3:A:539:THR:OG1	2.20	0.42
3:A:551:ASN:CG	3:A:552:ARG:N	2.64	0.42
3:A:596:GLY:N	3:A:662:ARG:HH22	2.08	0.42
3:A:642:TYR:C	3:A:643:GLN:NE2	2.78	0.42
3:A:691:MET:CG	3:A:972:VAL:HG21	2.47	0.42
3:A:820:PHE:HE2	3:A:837:ARG:HH11	1.67	0.42
3:A:935:LYS:O	3:A:938:GLU:N	2.53	0.42
3:A:1037:LEU:HD23	3:A:1037:LEU:O	2.19	0.42
4:B:2:ILE:O	4:B:3:PHE:C	2.57	0.42
4:B:168:THR:OG1	4:B:169:VAL:HG22	2.19	0.42
4:B:208:ILE:O	4:B:209:ILE:C	2.59	0.42
4:B:259:PRO:CG	4:B:260:ARG:N	2.78	0.42
4:B:325:GLU:HB2	4:B:326:PRO:HD3	2.02	0.42
4:B:581:LYS:HD2	4:B:816:ILE:HG23	2.01	0.42
4:B:587:VAL:HA	4:B:794:GLN:OE1	2.20	0.42
4:B:645:LEU:HD12	4:B:662:LYS:C	2.45	0.42
4:B:661:VAL:HG22	4:B:664:ILE:O	2.19	0.42
4:B:860:LYS:HA	4:B:860:LYS:HD2	1.82	0.42
4:B:921:LEU:HA	4:B:938:GLY:CA	2.50	0.42
4:B:1091:HIS:HA	4:B:1094:LEU:HD23	2.01	0.42
4:B:1121:LEU:HA	4:B:1121:LEU:HD12	0.95	0.42
5:C:13:THR:CB	5:C:206:PRO:HD2	2.42	0.42
5:C:94:ALA:O	5:C:96:ILE:HD12	2.20	0.42
5:C:170:PHE:O	5:C:172:PRO:HD3	2.20	0.42
5:C:205:SER:O	5:C:206:PRO:C	2.58	0.42
5:D:43:VAL:O	5:D:44:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:81:HIS:CD2	6:E:84:ILE:CG2	3.03	0.42
6:E:228:LEU:HD13	6:E:228:LEU:HA	1.30	0.42
6:E:349:LEU:HA	6:E:349:LEU:HD12	1.29	0.42
6:E:386:PRO:O	6:E:389:ILE:HG23	2.19	0.42
6:E:542:ILE:HG23	6:E:542:ILE:HD12	1.47	0.42
8:G:110:LEU:CD1	8:G:152:ARG:HG2	2.49	0.42
8:G:186:GLU:OE1	8:G:186:GLU:HA	2.01	0.42
8:G:215:ARG:O	8:G:219:THR:HG23	2.20	0.42
8:G:227:ARG:O	8:G:229:ILE:N	2.53	0.42
8:G:257:PRO:O	8:G:259:GLU:HG2	2.20	0.42
9:Y:42:GLU:O	9:Y:43:ARG:C	2.62	0.42
1:1:72:DT:O4	9:X:187:ARG:NH2	2.44	0.42
1:1:88:DA:C6	2:2:37:DT:C2	3.08	0.42
2:2:43:DG:C4	2:2:44:DA:N7	2.88	0.42
2:2:52:DA:C2	2:2:53:DT:N1	2.88	0.42
2:2:66:DA:H1'	2:2:67:DA:C5	2.52	0.42
3:A:104:LYS:HA	3:A:104:LYS:HE2	2.01	0.42
3:A:158:ARG:HD2	3:A:179:ARG:HD3	2.02	0.42
3:A:257:LEU:HD12	3:A:258:ASP:CA	2.50	0.42
3:A:285:VAL:O	3:A:286:PRO:C	2.62	0.42
3:A:333:GLN:O	3:A:336:VAL:CG1	2.50	0.42
3:A:599:VAL:N	3:A:608:VAL:CG1	2.78	0.42
3:A:602:ASP:C	3:A:604:THR:N	2.77	0.42
3:A:629:SER:OG	3:A:630:GLN:OE1	2.13	0.42
3:A:728:GLN:OE1	3:A:733:PRO:HB3	2.20	0.42
3:A:735:GLU:HA	3:A:772:LYS:HG3	1.83	0.42
3:A:762:TRP:HB2	3:A:813:ARG:HH12	1.85	0.42
4:B:100:GLY:CA	4:B:421:GLY:HA3	2.41	0.42
4:B:274:LYS:HG2	4:B:274:LYS:H	1.73	0.42
4:B:486:GLU:N	4:B:904:ASP:OD2	2.53	0.42
4:B:518:ILE:C	4:B:865:ILE:HG22	2.45	0.42
4:B:568:ASN:HB3	4:B:570:GLN:HG3	2.02	0.42
4:B:574:LEU:N	4:B:575:ARG:NH1	2.65	0.42
4:B:627:GLY:N	4:B:628:THR:HG23	2.32	0.42
4:B:692:LEU:HD22	4:B:736:LEU:CB	2.50	0.42
4:B:746:VAL:O	4:B:746:VAL:HG23	2.20	0.42
4:B:811:PRO:C	4:B:812:LEU:HD12	2.45	0.42
4:B:1078:PRO:CA	4:B:1100:LEU:HD11	2.49	0.42
4:B:1119:THR:HG23	4:B:1119:THR:H	1.32	0.42
4:B:1231:TRP:C	4:B:1233:ARG:N	2.75	0.42
4:B:1239:VAL:CG1	4:B:1240:ILE:H	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:19:HIS:HB3	5:C:206:PRO:HD3	2.00	0.42
5:C:67:THR:HG23	5:C:68:VAL:N	2.33	0.42
5:C:97:GLY:HA2	5:C:114:LEU:CA	2.33	0.42
5:D:73:GLU:HB3	5:D:77:GLU:CD	2.44	0.42
5:D:121:ILE:HD12	5:D:121:ILE:HG23	1.84	0.42
6:E:223:LYS:HB2	6:E:224:LEU:HD22	2.02	0.42
6:E:240:LYS:HG2	6:E:243:TRP:CE2	2.55	0.42
6:E:414:SER:O	6:E:418:VAL:N	2.52	0.42
8:G:115:ARG:O	8:G:116:VAL:C	2.59	0.42
8:G:144:PHE:O	8:G:145:ARG:C	2.62	0.42
8:G:266:MET:O	8:G:267:GLU:HB2	2.20	0.42
8:G:349:LYS:O	8:G:350:THR:C	2.63	0.42
9:X:161:GLY:CA	9:X:170:ILE:HA	2.41	0.42
9:Y:43:ARG:CD	9:Y:79:SER:HB3	2.50	0.42
9:Y:176:HIS:HA	9:Y:193:LEU:CD1	2.49	0.42
1:1:80:DA:N7	2:2:46:DT:C7	2.83	0.41
1:1:83:DC:H2"	1:1:84:DA:OP2	2.20	0.41
1:1:121:DG:C2'	1:1:122:DC:OP2	2.66	0.41
2:2:58:DA:C2	2:2:59:DG:C2	3.08	0.41
3:A:31:ILE:HG21	3:A:31:ILE:HD13	1.57	0.41
3:A:207:ASN:HA	3:A:211:ASP:OD2	2.19	0.41
3:A:330:GLU:O	3:A:331:LEU:O	2.36	0.41
3:A:331:LEU:HA	3:A:331:LEU:HD13	1.60	0.41
3:A:428:GLY:H	3:A:534:ILE:CG1	2.33	0.41
3:A:471:VAL:HG23	3:A:473:PHE:N	2.29	0.41
3:A:874:LEU:HD23	3:A:874:LEU:HA	1.87	0.41
3:A:1006:LEU:O	3:A:1007:GLY:C	2.62	0.41
3:A:1051:ALA:O	3:A:1053:ASN:N	2.54	0.41
3:A:1075:ARG:O	3:A:1078:GLN:N	2.52	0.41
4:B:103:GLU:O	4:B:106:LYS:HB3	2.19	0.41
4:B:180:ARG:HG3	4:B:180:ARG:HH11	1.85	0.41
4:B:192:ASP:O	4:B:193:SER:C	2.60	0.41
4:B:260:ARG:NH1	4:B:261:ASN:CG	2.78	0.41
4:B:360:PRO:CG	4:B:386:ILE:HG13	2.46	0.41
4:B:462:GLN:O	4:B:463:LYS:HB3	2.19	0.41
4:B:573:ASN:C	4:B:575:ARG:NH1	2.77	0.41
4:B:602:GLY:O	4:B:782:VAL:N	2.25	0.41
4:B:604:LEU:O	4:B:778:ASP:HA	2.20	0.41
4:B:697:PRO:O	4:B:698:GLU:C	2.63	0.41
4:B:793:THR:HG22	4:B:794:GLN:O	2.19	0.41
4:B:913:LYS:HB3	4:B:913:LYS:HE3	1.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1111:SER:C	4:B:1114:LEU:H	2.18	0.41
5:C:15:GLU:O	5:C:16:SER:HB3	2.20	0.41
5:C:207:GLN:O	5:C:209:ALA:N	2.53	0.41
5:D:63:HIS:HD2	5:D:65:PHE:CD2	2.38	0.41
6:E:234:PHE:O	6:E:235:ILE:C	2.62	0.41
6:E:254:PRO:C	6:E:256:LEU:N	2.74	0.41
6:E:298:ILE:HG21	6:E:298:ILE:HD13	1.74	0.41
6:E:342:GLN:O	6:E:343:GLY:C	2.58	0.41
6:E:391:ARG:HA	6:E:391:ARG:HD2	1.74	0.41
6:E:407:LEU:HA	6:E:410:ARG:HG3	2.02	0.41
6:E:419:LEU:O	6:E:420:GLU:C	2.60	0.41
6:E:488:ARG:O	6:E:489:LEU:C	2.60	0.41
7:F:34:GLN:C	7:F:36:ALA:N	2.71	0.41
8:G:110:LEU:HD23	8:G:110:LEU:C	2.45	0.41
8:G:116:VAL:O	8:G:118:GLU:N	2.53	0.41
8:G:121:SER:HA	8:G:127:ASP:N	2.34	0.41
9:X:146:GLY:O	9:X:150:VAL:HG23	2.20	0.41
9:Y:46:PHE:HD2	9:Y:74:VAL:HG23	1.85	0.41
9:Y:146:GLY:O	9:Y:147:SER:C	2.62	0.41
9:Y:205:ILE:O	9:Y:205:ILE:HG23	2.20	0.41
1:1:75:DA:N6	2:2:52:DA:C2	2.88	0.41
1:1:88:DA:H2'	1:1:88:DA:H5'	1.86	0.41
1:1:94:DT:N1	1:1:95:DT:H71	2.34	0.41
2:2:3:DT:C2	2:2:4:DG:N1	2.88	0.41
2:2:35:DA:H2"	2:2:36:DT:H5'	2.01	0.41
2:2:56:DG:H1'	2:2:57:DT:H5'	2.02	0.41
2:2:60:DC:C6	2:2:60:DC:OP2	2.73	0.41
3:A:257:LEU:O	3:A:258:ASP:C	2.60	0.41
3:A:276:LYS:HD2	3:A:276:LYS:HA	1.68	0.41
3:A:396:LEU:HD23	3:A:396:LEU:HA	1.57	0.41
3:A:529:VAL:O	3:A:529:VAL:HG12	2.19	0.41
3:A:552:ARG:NH1	3:A:555:MET:CE	2.81	0.41
3:A:555:MET:O	3:A:558:ASN:N	2.53	0.41
3:A:578:LEU:O	3:A:579:GLU:HB3	2.20	0.41
3:A:590:ILE:HG21	3:A:590:ILE:HD13	1.83	0.41
3:A:600:TYR:CE2	3:A:607:ARG:CZ	3.03	0.41
3:A:889:VAL:CG2	3:A:893:MET:HA	2.50	0.41
3:A:897:GLN:O	3:A:898:VAL:C	2.55	0.41
4:B:7:VAL:HA	6:E:521:THR:HG23	2.01	0.41
4:B:17:ILE:HG21	4:B:17:ILE:HD13	1.73	0.41
4:B:23:HIS:O	4:B:24:TYR:CG	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:59:PRO:O	4:B:62:LYS:HB2	2.20	0.41
4:B:101:THR:HA	4:B:420:LYS:O	2.19	0.41
4:B:157:LEU:HB2	4:B:160:LYS:NZ	2.28	0.41
4:B:167:LEU:HA	4:B:167:LEU:HD23	1.46	0.41
4:B:196:LEU:HD23	4:B:196:LEU:HA	1.53	0.41
4:B:198:ARG:O	4:B:199:ARG:C	2.57	0.41
4:B:230:LYS:HZ2	4:B:232:LEU:HA	1.84	0.41
4:B:271:GLU:HG2	4:B:271:GLU:H	1.69	0.41
4:B:328:THR:CG2	4:B:329:GLN:N	2.82	0.41
4:B:361:ARG:H	4:B:390:ARG:C	2.28	0.41
4:B:444:ASP:OD1	4:B:446:ALA:HB2	2.20	0.41
4:B:453:VAL:HG22	4:B:482:ILE:HD13	1.98	0.41
4:B:464:THR:HA	4:B:467:GLN:NE2	2.34	0.41
4:B:542:ALA:HA	4:B:758:VAL:O	2.20	0.41
4:B:681:LEU:HD12	4:B:682:ARG:N	2.35	0.41
5:C:59:ALA:C	5:C:61:VAL:H	2.28	0.41
5:C:221:PHE:O	5:C:224:LEU:N	2.51	0.41
5:D:3:GLN:HA	5:D:26:GLU:OE2	2.19	0.41
5:D:18:ASN:C	5:D:20:TYR:N	2.76	0.41
5:D:76:LEU:C	5:D:80:MET:SD	3.04	0.41
6:E:22:ILE:O	6:E:25:TRP:HB2	2.20	0.41
6:E:67:LYS:CG	6:E:70:GLU:OE1	2.67	0.41
6:E:454:ILE:C	6:E:455:GLN:O	2.56	0.41
6:E:581:ASP:O	6:E:583:SER:N	2.53	0.41
6:E:621:GLU:CG	6:E:622:ALA:N	2.80	0.41
7:F:17:ARG:O	7:F:18:ALA:C	2.63	0.41
8:G:92:ILE:HD12	8:G:93:ARG:H	1.85	0.41
8:G:113:LEU:HD22	8:G:147:ARG:CZ	2.50	0.41
8:G:127:ASP:CB	8:G:129:ARG:HH11	2.32	0.41
8:G:290:ILE:HG13	8:G:293:GLU:O	2.19	0.41
9:X:31:ASN:O	9:X:32:LYS:HG3	2.20	0.41
9:X:43:ARG:NE	9:X:108:VAL:HG23	2.34	0.41
9:X:180:ALA:O	9:X:184:GLY:N	2.53	0.41
9:Y:166:ASP:CG	9:Y:167:GLY:N	2.76	0.41
1:1:78:DA:C1'	1:1:79:DA:C8	3.02	0.41
2:2:10:DG:H1'	2:2:11:DT:C4	2.55	0.41
2:2:33:DA:N3	2:2:34:DA:C4	2.87	0.41
2:2:49:DT:C1'	2:2:50:DG:C8	2.94	0.41
3:A:62:LYS:CA	3:A:104:LYS:HB2	2.47	0.41
3:A:83:GLU:OE1	3:A:87:ARG:NH2	2.54	0.41
3:A:86:ARG:C	3:A:88:ASP:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:93:VAL:HG22	3:A:94:GLN:H	1.85	0.41
3:A:102:LEU:O	3:A:103:ASN:OD1	2.38	0.41
3:A:319:HIS:O	3:A:320:LEU:C	2.62	0.41
3:A:347:ILE:C	3:A:351:MET:HG3	2.43	0.41
3:A:470:ARG:O	3:A:470:ARG:CG	2.68	0.41
3:A:606:ILE:HD12	3:A:606:ILE:HG23	1.48	0.41
3:A:693:TRP:H	3:A:697:ASN:HD22	1.68	0.41
3:A:789:ARG:NH1	3:A:795:LYS:HD3	2.35	0.41
3:A:883:VAL:O	3:A:883:VAL:HG22	2.19	0.41
3:A:887:LEU:C	4:B:131:ARG:HH22	2.28	0.41
3:A:965:GLY:O	3:A:966:GLU:HG3	2.19	0.41
4:B:96:ASP:HA	4:B:423:LEU:HB3	2.02	0.41
4:B:363:LEU:C	4:B:364:ARG:HD2	2.45	0.41
4:B:445:VAL:HG13	4:B:972:TYR:HD2	1.84	0.41
4:B:454:LYS:HB3	4:B:483:LEU:HD12	2.01	0.41
4:B:456:ALA:C	4:B:457:GLU:OE1	2.64	0.41
4:B:481:TRP:N	4:B:481:TRP:CD2	2.86	0.41
4:B:494:ALA:O	4:B:495:GLU:C	2.61	0.41
4:B:553:VAL:HA	4:B:561:ASN:O	2.20	0.41
4:B:604:LEU:C	4:B:606:PHE:H	2.23	0.41
4:B:791:LEU:HA	4:B:791:LEU:HD12	1.80	0.41
4:B:817:GLU:OE1	4:B:831:GLN:O	2.38	0.41
4:B:828:GLN:C	4:B:829:ARG:O	2.60	0.41
4:B:971:PRO:O	4:B:972:TYR:HD1	2.02	0.41
4:B:1050:LYS:C	4:B:1051:VAL:HG23	2.44	0.41
4:B:1244:LEU:CG	4:B:1245:ILE:N	2.81	0.41
5:C:88:LYS:HB3	5:C:119:GLU:OE2	2.21	0.41
5:C:214:ALA:HA	5:D:224:LEU:HD22	2.03	0.41
5:D:43:VAL:HG12	5:D:43:VAL:H	1.68	0.41
5:D:54:THR:CA	5:D:166:ILE:HG22	2.50	0.41
5:D:91:SER:HB2	5:D:95:GLN:OE1	2.19	0.41
5:D:109:ALA:O	5:D:112:PHE:HB2	2.20	0.41
5:D:174:ARG:H	5:D:200:THR:HA	1.85	0.41
6:E:106:ILE:HG21	6:E:106:ILE:HD13	1.67	0.41
6:E:307:GLN:O	6:E:308:GLU:C	2.53	0.41
6:E:385:GLN:OE1	6:E:385:GLN:CA	2.63	0.41
6:E:426:HIS:CD2	6:E:484:GLN:OE1	2.74	0.41
6:E:487:ALA:O	6:E:490:LEU:N	2.53	0.41
6:E:519:TYR:O	6:E:519:TYR:CG	2.67	0.41
6:E:594:ARG:CZ	6:E:603:SER:CB	2.92	0.41
8:G:135:GLU:HB2	8:G:137:VAL:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:189:LEU:HA	8:G:189:LEU:HD13	1.71	0.41
8:G:316:ASN:N	8:G:316:ASN:ND2	2.62	0.41
8:G:317:LEU:C	8:G:319:ARG:N	2.75	0.41
9:Y:44:VAL:CG1	9:Y:46:PHE:CE2	2.95	0.41
9:Y:48:LEU:O	9:Y:71:GLU:HA	2.19	0.41
9:Y:48:LEU:HA	9:Y:72:ASN:N	2.34	0.41
9:Y:57:VAL:HA	9:Y:63:GLU:CG	2.50	0.41
1:1:83:DC:H5'	1:1:83:DC:H6	1.85	0.41
1:1:84:DA:C1'	1:1:85:DG:O5'	2.61	0.41
2:2:57:DT:P	2:2:57:DT:H3'	2.61	0.41
2:2:59:DG:N1	2:2:60:DC:N3	2.69	0.41
2:2:64:DA:H2'	2:2:64:DA:P	2.60	0.41
3:A:58:ASP:C	3:A:348:ARG:HH22	2.28	0.41
3:A:68:LEU:O	3:A:70:HIS:N	2.52	0.41
3:A:184:TRP:CE3	3:A:193:LEU:HG	2.56	0.41
3:A:188:ASP:H	3:A:191:ARG:HB3	1.86	0.41
3:A:242:LEU:CG	3:A:243:ARG:HB2	2.51	0.41
3:A:346:ILE:HA	3:A:346:ILE:HD13	1.83	0.41
3:A:608:VAL:CA	3:A:615:PRO:CG	2.98	0.41
3:A:609:ARG:CB	3:A:635:ILE:O	2.65	0.41
3:A:644:ARG:HE	3:A:720:GLU:HA	1.85	0.41
3:A:653:GLN:HA	3:A:671:ASP:O	2.21	0.41
3:A:696:TYR:CZ	6:E:366:PRO:HB2	2.56	0.41
3:A:944:GLY:O	3:A:946:ASP:N	2.53	0.41
3:A:1023:TRP:HB3	6:E:436:LEU:HD12	2.02	0.41
3:A:1055:ILE:O	3:A:1058:GLY:N	2.53	0.41
4:B:74:ARG:O	4:B:75:ALA:C	2.60	0.41
4:B:96:ASP:HB3	4:B:422:GLN:HB3	2.01	0.41
4:B:197:THR:C	4:B:199:ARG:N	2.76	0.41
4:B:206:ASP:C	4:B:208:ILE:HD12	2.45	0.41
4:B:262:THR:HA	4:B:263:PRO:HD2	1.56	0.41
4:B:283:ARG:HG2	4:B:298:CYS:CA	2.45	0.41
4:B:466:ARG:CZ	4:B:977:GLY:CA	2.99	0.41
4:B:535:ARG:HG2	4:B:840:LEU:CD2	2.49	0.41
4:B:631:TRP:HD1	4:B:633:PRO:HD3	1.80	0.41
4:B:688:PRO:CG	4:B:739:ARG:CG	2.98	0.41
4:B:760:GLN:NE2	4:B:764:ARG:NE	2.69	0.41
4:B:769:ARG:H	4:B:797:LEU:CD2	2.31	0.41
4:B:812:LEU:O	4:B:814:ALA:N	2.54	0.41
4:B:875:GLN:CD	4:B:876:ILE:H	2.28	0.41
4:B:913:LYS:CG	4:B:915:LYS:HE2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1012:PRO:HG2	4:B:1013:ARG:H	1.84	0.41
4:B:1034:GLY:N	4:B:1076:VAL:HG22	2.35	0.41
4:B:1110:ALA:O	4:B:1114:LEU:HB2	2.21	0.41
4:B:1116:LYS:O	4:B:1117:VAL:C	2.60	0.41
4:B:1232:LEU:HB3	4:B:1237:GLU:HB3	2.03	0.41
5:C:13:THR:HG22	5:C:206:PRO:CG	2.47	0.41
5:C:76:LEU:C	5:C:80:MET:SD	3.04	0.41
5:C:186:ASP:N	5:C:190:PRO:HA	2.35	0.41
5:C:202:GLY:C	5:C:204:ILE:N	2.73	0.41
5:D:33:GLY:HA2	5:D:194:LEU:CD1	2.51	0.41
5:D:49:GLU:OE2	5:D:146:LYS:HG3	2.21	0.41
5:D:49:GLU:O	5:D:172:PRO:HG3	2.20	0.41
5:D:83:LYS:HZ2	5:D:168:SER:CB	2.33	0.41
6:E:24:GLN:HA	6:E:27:GLU:OE1	2.20	0.41
6:E:146:VAL:O	6:E:147:VAL:C	2.54	0.41
6:E:207:GLU:HA	6:E:210:ARG:HB2	2.03	0.41
6:E:275:LEU:HA	6:E:275:LEU:HD23	1.30	0.41
6:E:464:PHE:HD1	6:E:464:PHE:H	1.67	0.41
6:E:530:GLY:HA2	6:E:533:LYS:CG	2.50	0.41
8:G:214:ILE:C	8:G:216:GLN:N	2.71	0.41
9:X:77:VAL:CB	9:X:80:LEU:HD23	2.49	0.41
9:X:129:ARG:O	9:X:133:THR:HG23	2.20	0.41
9:X:154:LEU:HD13	9:X:215:PRO:HA	2.03	0.41
9:Y:78:LEU:C	9:Y:80:LEU:N	2.78	0.41
9:Y:106:GLU:O	9:Y:107:GLN:C	2.63	0.41
1:1:63:DG:C8	1:1:64:DT:C4	3.08	0.41
1:1:74:DT:C4	2:2:53:DT:O4	2.73	0.41
1:1:115:DA:H1'	1:1:116:DC:C6	2.55	0.41
1:1:120:DT:N3	1:1:121:DG:C5	2.88	0.41
2:2:9:DC:N4	2:2:10:DG:O6	2.52	0.41
2:2:40:DC:H2'	2:2:40:DC:H6	1.59	0.41
2:2:42:DT:C6	2:2:43:DG:C5	3.08	0.41
2:2:51:DT:C2	2:2:52:DA:N9	2.89	0.41
3:A:40:TRP:CZ2	3:A:44:GLU:OE2	2.73	0.41
3:A:199:LEU:HA	3:A:202:LEU:HD11	2.01	0.41
3:A:260:ARG:O	3:A:260:ARG:HG2	2.20	0.41
3:A:272:VAL:C	3:A:275:TYR:H	2.27	0.41
3:A:283:LEU:HG	3:A:283:LEU:H	1.63	0.41
3:A:485:GLU:O	3:A:486:ASP:C	2.63	0.41
3:A:598:VAL:N	3:A:615:PRO:HB3	2.35	0.41
3:A:684:GLN:HB3	3:A:685:ASN:H	1.57	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:722:TYR:HD1	3:A:722:TYR:HA	1.55	0.41
3:A:735:GLU:CA	3:A:736:ILE:HG12	2.51	0.41
3:A:937:GLN:HA	3:A:949:TYR:HD2	1.86	0.41
3:A:1036:GLU:O	3:A:1038:LEU:N	2.53	0.41
3:A:1049:ASN:C	3:A:1051:ALA:N	2.77	0.41
4:B:179:ALA:O	4:B:180:ARG:C	2.56	0.41
4:B:195:TYR:CE2	4:B:199:ARG:NH1	2.89	0.41
4:B:354:ASP:OD1	4:B:354:ASP:C	2.63	0.41
4:B:417:GLN:OE1	4:B:421:GLY:HA2	2.21	0.41
4:B:439:GLU:N	4:B:1001:ARG:O	2.53	0.41
4:B:450:ALA:HB1	4:B:487:VAL:CG1	2.46	0.41
4:B:582:VAL:N	4:B:814:ALA:HB1	2.35	0.41
4:B:636:THR:CB	4:B:784:SER:HB3	2.51	0.41
4:B:653:TYR:CA	4:B:671:VAL:HG23	2.49	0.41
4:B:700:VAL:CG1	4:B:704:ASP:HB3	2.46	0.41
4:B:705:ASN:C	4:B:727:TYR:CD1	2.98	0.41
4:B:883:ILE:HG22	4:B:898:LEU:HD22	2.03	0.41
5:C:34:THR:OG1	5:C:35:THR:N	2.53	0.41
5:C:35:THR:HG22	5:D:42:ARG:HH21	1.86	0.41
5:D:72:ARG:HE	6:E:602:ILE:HD11	1.86	0.41
6:E:113:ALA:O	6:E:114:HIS:C	2.64	0.41
6:E:129:LEU:CD2	6:E:193:LEU:CD1	2.90	0.41
6:E:206:ALA:C	6:E:207:GLU:HG3	2.45	0.41
8:G:96:ARG:O	8:G:97:ALA:C	2.63	0.41
8:G:113:LEU:O	8:G:114:GLU:C	2.56	0.41
8:G:156:ASP:C	8:G:158:MET:H	2.27	0.41
8:G:200:HIS:O	8:G:201:GLU:CD	2.64	0.41
8:G:318:LEU:CA	8:G:388:TYR:HE2	1.94	0.41
8:G:352:GLU:HB2	8:G:353:GLU:H	1.72	0.41
8:G:379:PRO:C	8:G:381:ARG:H	2.27	0.41
9:X:27:THR:HB	9:X:99:GLU:HA	2.03	0.41
9:X:104:PRO:HB2	9:X:106:GLU:CG	2.49	0.41
9:X:117:GLU:HA	9:X:120:MET:HB2	2.03	0.41
9:X:125:GLY:O	9:X:128:SER:HB3	2.21	0.41
9:X:131:LEU:O	9:X:132:GLN:C	2.63	0.41
9:X:158:ARG:HG3	9:X:158:ARG:O	2.21	0.41
9:Y:26:GLU:OE2	9:Y:101:LEU:C	2.63	0.41
9:Y:162:VAL:HG22	9:Y:170:ILE:O	2.20	0.41
1:1:74:DT:O2	2:2:52:DA:H2	2.04	0.41
1:1:92:DT:C2	1:1:93:DT:C4	3.08	0.41
1:1:94:DT:H5”	6:E:47:TYR:OH	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:101:DT:C2	1:1:102:DA:N7	2.89	0.41
1:1:122:DC:H3'	1:1:122:DC:P	2.61	0.41
2:2:8:DC:H3'	2:2:8:DC:OP2	2.20	0.41
2:2:31:DA:C5	2:2:32:DA:N7	2.88	0.41
2:2:64:DA:C4	2:2:65:DA:C2	3.08	0.41
3:A:58:ASP:OD1	3:A:61:GLY:N	2.53	0.41
3:A:148:TYR:HE1	3:A:322:ASN:HD21	0.62	0.41
3:A:167:PRO:HA	3:A:269:LEU:CD1	2.51	0.41
3:A:198:LEU:O	3:A:202:LEU:HD11	2.20	0.41
3:A:260:ARG:HH11	3:A:260:ARG:CG	2.28	0.41
3:A:277:LEU:O	3:A:278:ASN:O	2.39	0.41
3:A:310:ASP:O	3:A:310:ASP:CG	2.58	0.41
3:A:336:VAL:CG1	3:A:337:ARG:N	2.83	0.41
3:A:514:GLN:O	3:A:515:GLU:HG2	2.21	0.41
3:A:736:ILE:HD13	3:A:772:LYS:CD	2.50	0.41
3:A:801:ASP:OD1	3:A:801:ASP:C	2.61	0.41
3:A:805:ARG:O	3:A:806:VAL:C	2.61	0.41
3:A:806:VAL:HG12	3:A:807:PRO:HD2	2.02	0.41
3:A:1034:LEU:HD12	3:A:1034:LEU:HA	1.18	0.41
3:A:1042:SER:O	3:A:1042:SER:OG	2.32	0.41
4:B:56:LEU:HA	4:B:56:LEU:HD23	1.38	0.41
4:B:195:TYR:CD2	4:B:199:ARG:NH1	2.88	0.41
4:B:241:GLY:HA3	4:B:301:TRP:HB2	2.02	0.41
4:B:242:ARG:N	4:B:264:ILE:HG22	2.25	0.41
4:B:250:HIS:CB	4:B:254:LYS:HG2	2.50	0.41
4:B:516:THR:HG23	4:B:870:VAL:CA	2.51	0.41
4:B:520:GLY:C	4:B:760:GLN:CD	2.89	0.41
4:B:523:VAL:CG2	4:B:866:VAL:H	2.33	0.41
4:B:548:GLN:HG2	4:B:754:SER:OG	2.21	0.41
4:B:572:PHE:HE1	4:B:591:LEU:HB2	1.85	0.41
4:B:626:GLY:HA2	4:B:628:THR:OG1	2.20	0.41
4:B:631:TRP:NE1	4:B:633:PRO:HG3	2.29	0.41
4:B:661:VAL:O	4:B:662:LYS:C	2.63	0.41
4:B:688:PRO:CD	4:B:739:ARG:HG2	2.50	0.41
4:B:690:GLU:OE2	4:B:738:SER:HB2	2.21	0.41
4:B:916:VAL:HG21	4:B:930:PRO:HD3	2.01	0.41
4:B:1086:GLY:HA3	4:B:1087:PRO:HD2	1.85	0.41
4:B:1110:ALA:O	4:B:1111:SER:C	2.63	0.41
5:C:78:ILE:HD13	5:C:78:ILE:HG21	1.76	0.41
5:C:101:VAL:HB	5:C:136:LEU:CB	2.50	0.41
5:C:109:ALA:HA	5:C:112:PHE:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:119:GLU:O	5:C:120:VAL:C	2.61	0.41
5:C:130:ILE:HB	5:C:136:LEU:CD2	2.51	0.41
5:C:165:GLN:HG2	5:C:166:ILE:N	2.29	0.41
5:D:4:PHE:CZ	5:D:32:GLN:HG2	2.55	0.41
5:D:85:VAL:H	5:D:85:VAL:HG22	1.57	0.41
5:D:114:LEU:CD1	5:D:119:GLU:HA	2.51	0.41
5:D:181:GLU:OE2	5:D:193:ARG:NE	2.53	0.41
6:E:122:PRO:O	6:E:127:ILE:CG1	2.63	0.41
6:E:148:LEU:HG	6:E:185:GLU:HB2	2.02	0.41
6:E:320:GLY:O	6:E:321:ARG:NE	2.53	0.41
6:E:479:LEU:HD23	6:E:479:LEU:HA	1.46	0.41
8:G:101:ILE:C	8:G:103:LEU:N	2.74	0.41
8:G:178:LEU:HG	8:G:222:ILE:HG23	2.00	0.41
8:G:350:THR:C	8:G:352:GLU:N	2.75	0.41
9:X:34:ILE:H	9:X:93:VAL:N	2.18	0.41
9:X:87:ASP:O	9:X:88:ARG:C	2.62	0.41
9:X:217:THR:OG1	9:X:218:LEU:N	2.54	0.41
9:Y:44:VAL:HG12	9:Y:45:TYR:N	2.35	0.41
9:Y:149:LEU:O	9:Y:153:LEU:HG	2.21	0.41
9:Y:166:ASP:OD2	9:Y:211:THR:HB	2.21	0.41
1:1:77:DA:C2	2:2:50:DG:C4	3.09	0.41
1:1:88:DA:H4'	1:1:88:DA:OP1	2.09	0.41
1:1:90:DA:C5	1:1:91:DT:C5	3.09	0.41
1:1:109:DG:H21	1:1:110:DC:H42	1.65	0.41
1:1:110:DC:H2"	1:1:111:DT:C5	2.56	0.41
2:2:27:DA:C2'	8:G:237:GLU:CD	2.81	0.41
2:2:28:DC:H2"	2:2:29:DA:O5'	2.20	0.41
2:2:32:DA:N3	2:2:32:DA:C2'	2.81	0.41
2:2:50:DG:C2	2:2:51:DT:N3	2.89	0.41
2:2:51:DT:H1'	2:2:52:DA:O4'	2.20	0.41
3:A:60:THR:O	3:A:62:LYS:HB2	2.20	0.41
3:A:153:ILE:HG23	3:A:153:ILE:HD12	1.66	0.41
3:A:192:LYS:HE3	3:A:194:SER:HB3	2.02	0.41
3:A:703:LEU:O	3:A:704:ILE:CG1	2.68	0.41
3:A:810:GLU:C	3:A:811:LYS:CG	2.94	0.41
3:A:828:LEU:HB2	3:A:832:ALA:HB3	2.03	0.41
3:A:983:VAL:O	3:A:984:HIS:C	2.51	0.41
4:B:14:ARG:HG2	6:E:508:THR:HG21	2.02	0.41
4:B:73:ILE:HG21	4:B:73:ILE:HD13	1.77	0.41
4:B:93:LYS:HD2	4:B:375:ASP:OD2	2.21	0.41
4:B:155:ILE:HG22	4:B:156:ASP:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:205:GLN:HA	4:B:317:ILE:CG2	2.50	0.41
4:B:206:ASP:O	4:B:208:ILE:HD12	2.21	0.41
4:B:244:VAL:HG22	4:B:244:VAL:H	1.34	0.41
4:B:263:PRO:O	4:B:263:PRO:HG2	2.20	0.41
4:B:331:THR:C	4:B:332:MET:HE2	2.45	0.41
4:B:394:SER:O	4:B:395:GLU:CB	2.69	0.41
4:B:524:ARG:CA	4:B:861:ASP:OD1	2.68	0.41
4:B:542:ALA:C	4:B:544:VAL:N	2.78	0.41
4:B:555:SER:OG	4:B:559:ARG:HA	2.20	0.41
4:B:831:GLN:HB3	4:B:833:VAL:HG13	2.02	0.41
4:B:873:ARG:HD2	4:B:873:ARG:N	2.35	0.41
4:B:896:ARG:HG2	4:B:987:LEU:O	2.21	0.41
5:C:57:ARG:HA	5:C:162:ASP:O	2.20	0.41
5:C:63:HIS:O	5:C:65:PHE:N	2.54	0.41
5:C:149:ARG:HD3	5:C:153:ARG:C	2.45	0.41
5:C:174:ARG:H	5:C:200:THR:HA	1.85	0.41
5:C:186:ASP:CA	5:C:190:PRO:HA	2.49	0.41
5:D:38:ASN:O	5:D:40:LEU:N	2.53	0.41
5:D:104:PRO:C	5:D:131:ALA:HA	2.45	0.41
5:D:151:VAL:HA	5:D:154:GLY:HA3	2.01	0.41
5:D:166:ILE:HG23	5:D:167:ASP:O	2.20	0.41
5:D:186:ASP:O	5:D:187:GLY:C	2.60	0.41
5:D:188:SER:O	5:D:189:ILE:HB	2.20	0.41
5:D:194:LEU:HD23	5:D:196:LEU:N	2.36	0.41
5:D:226:ASP:O	5:D:227:ILE:C	2.63	0.41
6:E:60:GLU:OE2	6:E:65:PRO:HA	2.20	0.41
6:E:68:ASP:CG	6:E:69:TRP:H	2.27	0.41
6:E:231:ILE:HA	6:E:234:PHE:HD2	1.84	0.41
6:E:237:THR:HG23	6:E:239:SER:H	1.85	0.41
6:E:281:ASN:N	6:E:281:ASN:OD1	2.42	0.41
6:E:387:PHE:O	6:E:388:VAL:C	2.58	0.41
6:E:454:ILE:HD12	6:E:454:ILE:HG23	1.34	0.41
6:E:546:GLN:C	6:E:547:GLN:CD	2.89	0.41
8:G:132:GLU:OE1	8:G:139:LEU:O	2.38	0.41
8:G:370:ALA:HB1	8:G:374:ARG:HH21	1.86	0.41
8:G:370:ALA:HB1	8:G:374:ARG:HE	1.85	0.41
9:X:166:ASP:OD2	9:X:211:THR:HB	2.21	0.41
9:X:179:ILE:O	9:X:180:ALA:C	2.60	0.41
9:Y:205:ILE:C	9:Y:206:HIS:CG	2.99	0.41
2:2:8:DC:C1'	2:2:9:DC:N4	2.82	0.41
3:A:103:ASN:HB2	3:A:105:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:254:GLN:O	3:A:255:GLN:C	2.60	0.41
3:A:313:SER:C	3:A:314:ILE:O	2.61	0.41
3:A:523:GLN:H	3:A:523:GLN:HG3	1.33	0.41
3:A:544:PHE:O	3:A:545:LEU:C	2.63	0.41
3:A:584:ARG:C	3:A:585:ASP:OD1	2.64	0.41
3:A:600:TYR:HB3	3:A:607:ARG:O	2.20	0.41
3:A:698:TYR:C	3:A:885:ASN:HD21	2.28	0.41
3:A:768:ILE:HG22	3:A:769:LEU:C	2.45	0.41
3:A:921:GLU:O	3:A:922:MET:C	2.63	0.41
4:B:76:THR:O	4:B:85:ILE:HD11	2.20	0.41
4:B:93:LYS:O	4:B:422:GLN:NE2	2.54	0.41
4:B:111:THR:O	4:B:114:LYS:HB3	2.20	0.41
4:B:494:ALA:O	4:B:511:ALA:HB1	2.21	0.41
4:B:504:VAL:HG11	4:B:509:VAL:O	2.20	0.41
4:B:542:ALA:HB3	4:B:833:VAL:N	2.34	0.41
4:B:604:LEU:HG	4:B:606:PHE:HB3	2.02	0.41
4:B:635:GLU:HB2	4:B:686:VAL:HB	2.03	0.41
4:B:666:CYS:HB3	4:B:668:ASN:HB3	2.01	0.41
4:B:700:VAL:O	4:B:704:ASP:HB3	2.21	0.41
4:B:708:LEU:O	4:B:722:LEU:C	2.59	0.41
4:B:765:SER:O	4:B:767:GLN:HG2	2.20	0.41
4:B:878:SER:C	4:B:880:GLU:H	2.28	0.41
4:B:915:LYS:HB3	4:B:916:VAL:HG23	2.02	0.41
4:B:1017:LEU:O	4:B:1020:ALA:N	2.54	0.41
4:B:1151:LYS:NZ	4:B:1169:GLU:CG	2.84	0.41
4:B:1230:ASP:HB3	6:E:12:VAL:HG22	2.02	0.41
5:C:63:HIS:HD2	5:C:65:PHE:CD2	2.38	0.41
5:D:91:SER:C	5:D:93:GLN:H	2.28	0.41
5:D:105:THR:O	5:D:130:ILE:HG22	2.21	0.41
6:E:166:GLN:O	6:E:170:ILE:HG12	2.21	0.41
6:E:184:VAL:CG1	6:E:185:GLU:N	2.68	0.41
6:E:196:LEU:HA	6:E:196:LEU:HD23	0.88	0.41
6:E:276:TYR:C	6:E:278:ARG:N	2.73	0.41
6:E:346:ARG:O	6:E:346:ARG:HG2	2.21	0.41
6:E:381:ILE:HG21	6:E:381:ILE:HD13	1.65	0.41
6:E:400:ASN:OD1	6:E:403:ALA:HB2	2.20	0.41
6:E:457:HIS:CG	6:E:458:PRO:HD2	2.55	0.41
6:E:471:ASP:O	6:E:472:GLN:HG3	2.20	0.41
8:G:135:GLU:HB2	8:G:137:VAL:HG22	2.02	0.41
8:G:237:GLU:O	8:G:238:THR:C	2.62	0.41
8:G:372:ALA:O	8:G:375:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:106:GLU:HA	9:X:110:GLN:H	1.85	0.41
9:X:160:PHE:N	9:X:160:PHE:CD1	2.87	0.41
9:X:177:GLN:C	9:X:179:ILE:N	2.76	0.41
9:Y:27:THR:CA	9:Y:98:VAL:HB	2.50	0.41
9:Y:136:MET:HA	9:Y:139:THR:CG2	2.51	0.41
1:1:81:DT:C2	1:1:82:DT:C4	3.09	0.41
1:1:83:DC:H1'	1:1:84:DA:OP2	2.20	0.41
1:1:87:DA:H1'	1:1:88:DA:O4'	2.21	0.41
1:1:108:DA:C2'	1:1:109:DG:O5'	2.68	0.41
1:1:118:DG:N2	2:2:7:DT:O2	2.54	0.41
2:2:28:DC:C2'	2:2:29:DA:C8	3.04	0.41
2:2:38:DT:C2	2:2:39:DT:C6	3.09	0.41
2:2:38:DT:C6	2:2:39:DT:H73	2.55	0.41
2:2:40:DC:C2	2:2:41:DC:C4	3.08	0.41
2:2:41:DC:C2	2:2:42:DT:C2	3.09	0.41
2:2:44:DA:C2'	2:2:45:DA:OP2	2.65	0.41
2:2:51:DT:H71	2:2:52:DA:N6	2.35	0.41
2:2:61:DT:C4	2:2:62:DA:N6	2.88	0.41
2:2:67:DA:N3	2:2:67:DA:O4'	2.49	0.41
3:A:49:GLU:CD	3:A:50:LEU:N	2.77	0.41
3:A:65:LEU:HB2	3:A:351:MET:HE3	2.03	0.41
3:A:93:VAL:HG13	3:A:94:GLN:N	2.35	0.41
3:A:112:GLN:OE1	3:A:362:ALA:HB2	2.21	0.41
3:A:184:TRP:CB	3:A:193:LEU:HA	2.41	0.41
3:A:236:MET:HA	3:A:239:TYR:CB	2.48	0.41
3:A:268:ASP:CG	3:A:270:GLY:N	2.78	0.41
3:A:270:GLY:C	3:A:290:ARG:CZ	2.93	0.41
3:A:285:VAL:O	3:A:285:VAL:CG1	2.59	0.41
3:A:467:GLU:CG	3:A:472:ARG:HH12	2.19	0.41
3:A:510:VAL:O	3:A:510:VAL:HG13	2.20	0.41
3:A:552:ARG:HE	3:A:552:ARG:HB2	1.37	0.41
3:A:554:LEU:HD12	3:A:554:LEU:HA	1.46	0.41
3:A:610:VAL:CA	3:A:632:GLY:C	2.85	0.41
3:A:644:ARG:HD2	3:A:719:ILE:HG13	2.03	0.41
3:A:704:ILE:C	3:A:705:SER:O	2.58	0.41
3:A:719:ILE:HG21	3:A:719:ILE:HD13	1.56	0.41
3:A:848:VAL:HA	3:A:862:ILE:HG22	2.01	0.41
3:A:929:ARG:CD	4:B:164:ARG:NH2	2.82	0.41
3:A:1068:GLU:O	3:A:1070:PHE:C	2.64	0.41
3:A:1084:ILE:HD11	6:E:12:VAL:HB	2.03	0.41
3:A:1100:VAL:HG22	3:A:1100:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:8:VAL:HG22	6:E:521:THR:HG21	2.03	0.41
4:B:32:MET:HB3	4:B:32:MET:HE2	1.75	0.41
4:B:60:PRO:C	4:B:62:LYS:H	2.26	0.41
4:B:104:ALA:CA	4:B:354:ASP:OD2	2.69	0.41
4:B:137:VAL:O	4:B:138:ARG:C	2.63	0.41
4:B:169:VAL:O	4:B:172:TYR:CA	2.62	0.41
4:B:303:LEU:CD1	4:B:1137:ALA:CB	2.94	0.41
4:B:325:GLU:N	4:B:326:PRO:CD	2.84	0.41
4:B:419:LYS:HD2	4:B:419:LYS:HA	1.37	0.41
4:B:424:LEU:C	4:B:426:GLU:N	2.78	0.41
4:B:426:GLU:HB3	4:B:1005:GLY:O	2.21	0.41
4:B:437:ASN:CB	4:B:1003:LYS:HG3	2.51	0.41
4:B:461:GLU:CD	4:B:476:ARG:H	2.28	0.41
4:B:542:ALA:HB3	4:B:832:LEU:O	2.19	0.41
4:B:627:GLY:CA	4:B:745:ALA:HA	2.51	0.41
4:B:634:GLU:CB	4:B:781:ARG:NH2	2.83	0.41
4:B:710:PRO:HB3	4:B:720:THR:O	2.20	0.41
4:B:809:ALA:HB3	4:B:813:ALA:HB2	2.03	0.41
4:B:880:GLU:O	4:B:899:VAL:HG21	2.20	0.41
4:B:905:MET:O	4:B:905:MET:SD	2.79	0.41
4:B:910:ILE:HG12	4:B:912:ALA:CA	2.51	0.41
4:B:910:ILE:CD1	4:B:912:ALA:HB3	2.50	0.41
4:B:932:ILE:HD13	4:B:932:ILE:HG21	1.72	0.41
4:B:1140:HIS:O	4:B:1142:GLU:N	2.54	0.41
4:B:1241:ILE:HA	4:B:1241:ILE:HD12	1.18	0.41
5:C:23:PHE:HZ	5:C:206:PRO:CB	2.33	0.41
5:D:40:LEU:HA	5:D:40:LEU:HD23	1.37	0.41
5:D:68:VAL:O	5:D:69:PRO:C	2.63	0.41
5:D:112:PHE:HD1	5:D:140:PHE:CE2	2.39	0.41
6:E:33:GLY:O	6:E:34:GLN:HB3	2.21	0.41
6:E:86:CYS:SG	6:E:89:CYS:HB3	2.60	0.41
6:E:125:ILE:HA	6:E:125:ILE:HD13	1.76	0.41
6:E:134:ARG:O	6:E:138:GLN:HG2	2.21	0.41
6:E:166:GLN:O	6:E:170:ILE:N	2.53	0.41
6:E:200:ILE:HG21	6:E:200:ILE:HD13	1.52	0.41
6:E:223:LYS:O	6:E:224:LEU:C	2.61	0.41
6:E:255:ASP:OD2	6:E:255:ASP:C	2.53	0.41
6:E:313:LEU:O	6:E:314:ILE:C	2.58	0.41
6:E:435:THR:CG2	6:E:440:GLY:HA3	2.50	0.41
6:E:449:VAL:CG1	6:E:450:GLU:H	2.34	0.41
6:E:465:ASN:C	6:E:465:ASN:OD1	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:22:ILE:HG21	7:F:22:ILE:HD13	1.47	0.41
8:G:94:LEU:HD12	8:G:95:LEU:H	1.85	0.41
9:X:26:GLU:N	9:X:26:GLU:OE1	2.42	0.41
9:X:69:LEU:HD22	9:X:74:VAL:O	2.21	0.41
9:X:106:GLU:O	9:X:110:GLN:N	2.53	0.41
9:X:106:GLU:C	9:X:109:GLU:H	2.28	0.41
9:X:162:VAL:HG22	9:X:170:ILE:O	2.20	0.41
9:X:176:HIS:HA	9:X:189:THR:HB	2.03	0.41
9:Y:57:VAL:CB	9:Y:91:HIS:HB3	2.51	0.41
9:Y:69:LEU:CA	9:Y:70:ARG:HH11	2.31	0.41
9:Y:134:GLU:C	9:Y:137:ILE:HB	2.45	0.41
1:1:73:DA:C4	2:2:54:DA:N6	2.89	0.41
1:1:84:DA:C2	1:1:85:DG:C5	3.09	0.41
1:1:85:DG:H3'	1:1:85:DG:P	2.61	0.41
2:2:59:DG:H5'	9:Y:145:MET:SD	2.61	0.41
3:A:41:PHE:HD2	3:A:42:LEU:N	2.18	0.41
3:A:215:HIS:O	3:A:305:ILE:HG21	2.21	0.41
3:A:222:THR:O	3:A:223:ILE:O	2.39	0.41
3:A:336:VAL:O	3:A:338:VAL:N	2.54	0.41
3:A:348:ARG:HA	3:A:348:ARG:HD2	1.77	0.41
3:A:370:LEU:C	3:A:372:ALA:N	2.70	0.41
3:A:395:GLU:O	3:A:397:THR:N	2.53	0.41
3:A:599:VAL:H	3:A:608:VAL:HA	1.85	0.41
3:A:606:ILE:O	3:A:609:ARG:CG	2.68	0.41
3:A:645:SER:C	3:A:647:GLN:N	2.79	0.41
3:A:722:TYR:HB2	3:A:838:VAL:HG12	2.02	0.41
3:A:745:GLU:C	3:A:747:ALA:H	2.28	0.41
3:A:1011:GLN:NE2	8:G:301:PHE:HD1	2.19	0.41
3:A:1037:LEU:HD23	3:A:1038:LEU:HD22	2.03	0.41
4:B:37:LYS:HB2	6:E:513:MET:SD	2.61	0.41
4:B:64:SER:O	4:B:66:LEU:N	2.53	0.41
4:B:68:ALA:HB1	4:B:419:LYS:CE	2.24	0.41
4:B:70:GLU:O	4:B:71:GLU:C	2.58	0.41
4:B:126:ALA:O	4:B:127:PHE:HB3	2.21	0.41
4:B:189:ARG:NH2	4:B:330:LEU:C	2.75	0.41
4:B:226:THR:HG22	4:B:226:THR:O	2.21	0.41
4:B:437:ASN:HB3	4:B:1003:LYS:CG	2.50	0.41
4:B:460:PRO:HA	4:B:474:ALA:C	2.46	0.41
4:B:510:LEU:N	4:B:875:GLN:OE1	2.53	0.41
4:B:591:LEU:CB	4:B:793:THR:HB	2.50	0.41
4:B:597:ARG:CG	4:B:788:VAL:CB	2.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:637:HIS:NE2	4:B:666:CYS:SG	2.82	0.41
4:B:725:ILE:HG13	4:B:726:GLN:N	2.35	0.41
4:B:760:GLN:HE21	4:B:764:ARG:NE	2.19	0.41
4:B:935:GLU:CD	4:B:936:GLU:HA	2.45	0.41
4:B:1130:GLN:C	4:B:1132:GLN:N	2.74	0.41
4:B:1180:MET:O	4:B:1184:GLY:N	2.54	0.41
5:C:64:GLU:HB2	5:C:65:PHE:CE2	2.56	0.41
5:D:59:ALA:C	5:D:61:VAL:H	2.28	0.41
5:D:78:ILE:HD13	5:D:78:ILE:HG21	1.75	0.41
5:D:99:LEU:HB2	5:D:112:PHE:HA	2.03	0.41
6:E:26:GLY:O	6:E:105:TYR:HE1	2.05	0.41
6:E:32:ASN:OD1	6:E:32:ASN:C	2.59	0.41
6:E:44:THR:HG22	6:E:58:PHE:HE1	1.86	0.41
6:E:74:GLY:O	6:E:75:LYS:HB2	2.20	0.41
6:E:147:VAL:HG12	6:E:162:LEU:HD21	2.03	0.41
6:E:153:ALA:HB3	6:E:182:GLN:HB2	2.03	0.41
6:E:154:GLU:HG3	6:E:155:THR:CG2	2.49	0.41
6:E:304:ARG:O	6:E:308:GLU:OE1	2.39	0.41
6:E:595:GLU:N	6:E:595:GLU:OE1	2.54	0.41
7:F:32:THR:C	7:F:35:VAL:HG12	2.38	0.41
8:G:87:GLN:O	8:G:90:GLY:N	2.53	0.41
8:G:215:ARG:O	8:G:218:ILE:N	2.52	0.41
8:G:270:ILE:HG13	8:G:273:LEU:HB2	2.02	0.41
8:G:287:GLU:O	8:G:297:ARG:HG3	2.20	0.41
8:G:347:ARG:N	8:G:348:MET:HG3	2.35	0.41
9:Y:143:ARG:N	9:Y:148:ARG:HH21	2.18	0.41
1:1:62:DT:N3	2:2:64:DA:N1	2.69	0.40
2:2:3:DT:O2	2:2:4:DG:C6	2.74	0.40
2:2:30:DG:H2"	2:2:31:DA:O5'	2.21	0.40
2:2:48:DT:C2	2:2:49:DT:C6	3.08	0.40
3:A:57:THR:CG2	3:A:64:GLU:HA	2.51	0.40
3:A:74:LEU:HA	3:A:94:GLN:O	2.21	0.40
3:A:103:ASN:OD1	3:A:106:THR:O	2.40	0.40
3:A:123:THR:HG21	3:A:129:ILE:HG23	2.02	0.40
3:A:347:ILE:HG12	3:A:351:MET:CB	2.51	0.40
3:A:537:VAL:C	3:A:539:THR:H	2.29	0.40
3:A:607:ARG:HD3	3:A:636:ARG:HH12	1.86	0.40
3:A:610:VAL:HG23	3:A:634:GLU:HA	2.03	0.40
3:A:633:GLN:N	3:A:633:GLN:CD	2.79	0.40
3:A:895:VAL:O	3:A:896:GLY:C	2.62	0.40
3:A:1007:GLY:HA2	3:A:1013:GLY:CA	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:4:ARG:NH2	4:B:16:LEU:CD1	2.84	0.40
4:B:22:THR:H	4:B:22:THR:HG23	1.28	0.40
4:B:68:ALA:C	4:B:70:GLU:N	2.75	0.40
4:B:79:ARG:CD	4:B:85:ILE:CG2	2.99	0.40
4:B:80:TYR:HA	4:B:85:ILE:O	2.21	0.40
4:B:271:GLU:O	4:B:274:LYS:CA	2.69	0.40
4:B:310:ASP:O	4:B:311:LEU:HD23	2.21	0.40
4:B:443:LYS:HZ1	4:B:975:SER:N	2.19	0.40
4:B:537:ILE:H	4:B:838:LEU:C	2.29	0.40
4:B:724:TYR:CE1	4:B:727:TYR:CD1	3.09	0.40
4:B:986:ASP:OD1	4:B:986:ASP:O	2.39	0.40
4:B:1151:LYS:HZ1	4:B:1169:GLU:HG2	1.85	0.40
5:C:86:ILE:HG21	5:C:86:ILE:HD13	1.81	0.40
5:D:63:HIS:O	5:D:65:PHE:N	2.54	0.40
5:D:64:GLU:HB2	5:D:65:PHE:CE2	2.56	0.40
5:D:98:ARG:HA	5:D:139:GLU:HB2	2.03	0.40
5:D:101:VAL:H	5:D:136:LEU:CB	2.25	0.40
6:E:71:CYS:HB2	6:E:86:CYS:HB2	1.77	0.40
6:E:89:CYS:SG	6:E:91:VAL:N	2.94	0.40
6:E:142:PHE:N	6:E:142:PHE:CD2	2.87	0.40
6:E:196:LEU:O	6:E:199:ASP:N	2.54	0.40
6:E:319:ARG:HG2	6:E:320:GLY:N	2.36	0.40
6:E:424:GLU:OE1	6:E:424:GLU:CA	2.58	0.40
6:E:451:GLY:O	6:E:452:ARG:CG	2.69	0.40
6:E:489:LEU:O	6:E:489:LEU:HD23	2.20	0.40
7:F:31:ILE:HD13	7:F:31:ILE:HG21	1.79	0.40
8:G:88:GLU:OE2	8:G:89:ILE:CA	2.69	0.40
8:G:162:ASN:O	8:G:164:ARG:N	2.54	0.40
8:G:285:SER:O	8:G:287:GLU:N	2.53	0.40
8:G:371:LYS:O	8:G:375:LYS:CG	2.65	0.40
9:Y:35:PHE:CE2	9:Y:88:ARG:NH2	2.89	0.40
9:Y:56:ARG:CZ	9:Y:63:GLU:HA	2.51	0.40
9:Y:57:VAL:HG23	9:Y:63:GLU:HG2	1.99	0.40
9:Y:189:THR:O	9:Y:193:LEU:HG	2.21	0.40
1:1:61:DT:H1'	1:1:62:DT:O5'	2.21	0.40
1:1:100:DA:C8	1:1:100:DA:P	3.14	0.40
1:1:100:DA:C2	8:G:204:TYR:CZ	3.09	0.40
2:2:62:DA:H2"	2:2:63:DC:OP2	2.21	0.40
3:A:134:GLU:C	3:A:135:ARG:CG	2.86	0.40
3:A:249:THR:HG22	3:A:251:LEU:N	2.35	0.40
3:A:263:ASP:HB2	3:A:265:LYS:CB	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:267:TYR:HD2	3:A:291:VAL:HG13	1.86	0.40
3:A:679:GLU:O	3:A:680:LEU:C	2.61	0.40
3:A:704:ILE:HG23	3:A:704:ILE:HD12	1.16	0.40
3:A:890:PRO:HG3	4:B:131:ARG:CZ	2.51	0.40
3:A:968:PHE:CE1	4:B:48:GLY:O	2.74	0.40
3:A:1033:THR:H	3:A:1033:THR:HG23	1.44	0.40
3:A:1050:GLU:H	3:A:1050:GLU:HG3	1.67	0.40
3:A:1086:VAL:H	3:A:1086:VAL:HG22	1.31	0.40
4:B:255:GLU:HA	4:B:255:GLU:OE1	2.08	0.40
4:B:442:VAL:C	4:B:996:LEU:HD12	2.45	0.40
4:B:542:ALA:HB1	4:B:544:VAL:HG23	2.02	0.40
4:B:645:LEU:H	4:B:662:LYS:CD	2.32	0.40
4:B:819:ILE:HD12	4:B:822:LEU:HD22	2.02	0.40
4:B:822:LEU:C	4:B:826:ASP:HA	2.45	0.40
4:B:880:GLU:OE2	4:B:899:VAL:O	2.39	0.40
4:B:928:LEU:HD12	4:B:928:LEU:C	2.47	0.40
4:B:1026:ALA:HB1	4:B:1088:SER:HA	2.03	0.40
4:B:1144:ILE:HG21	4:B:1144:ILE:HD13	1.61	0.40
4:B:1145:VAL:HA	4:B:1148:MET:HB2	2.02	0.40
5:C:150:THR:HA	5:C:167:ASP:HB2	2.02	0.40
5:D:4:PHE:HE1	5:D:28:LEU:O	2.05	0.40
5:D:63:HIS:HE2	5:D:65:PHE:HB2	1.85	0.40
5:D:100:LEU:C	5:D:101:VAL:HG23	2.46	0.40
6:E:94:THR:O	6:E:98:VAL:HG23	2.21	0.40
6:E:113:ALA:HA	6:E:245:VAL:HG23	2.03	0.40
6:E:148:LEU:HD12	6:E:150:PRO:HD2	2.03	0.40
6:E:192:ALA:O	6:E:196:LEU:N	2.52	0.40
6:E:235:ILE:HG13	6:E:236:ALA:N	2.37	0.40
6:E:402:LYS:NZ	8:G:390:ARG:HH22	2.08	0.40
6:E:413:PRO:O	6:E:414:SER:C	2.63	0.40
6:E:443:ALA:HB1	6:E:487:ALA:HB1	2.03	0.40
6:E:504:ARG:H	6:E:504:ARG:HG2	1.30	0.40
6:E:512:ASP:C	6:E:514:VAL:N	2.76	0.40
8:G:178:LEU:CB	8:G:222:ILE:HG22	2.52	0.40
9:Y:45:TYR:HE2	9:Y:78:LEU:HD11	1.86	0.40
9:Y:55:SER:HB2	9:Y:65:THR:HG22	1.99	0.40
1:1:77:DA:C1'	1:1:78:DA:C8	2.98	0.40
1:1:80:DA:H2'	1:1:81:DT:C7	2.33	0.40
1:1:85:DG:C4	1:1:86:DG:N7	2.89	0.40
1:1:89:DA:H2"	1:1:90:DA:H8	1.86	0.40
1:1:90:DA:H2"	1:1:91:DT:O5'	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:107:DG:C6	1:1:108:DA:C6	3.08	0.40
1:1:108:DA:C8	1:1:108:DA:O5'	2.74	0.40
1:1:115:DA:N6	2:2:10:DG:C5	2.89	0.40
1:1:121:DG:C5	1:1:122:DC:N4	2.88	0.40
3:A:122:MET:SD	3:A:126:GLY:HA2	2.61	0.40
3:A:141:ILE:HD13	3:A:141:ILE:HG21	1.63	0.40
3:A:449:THR:H	3:A:449:THR:HG23	1.70	0.40
3:A:489:ARG:HG2	3:A:523:GLN:O	2.21	0.40
3:A:601:VAL:HA	3:A:606:ILE:HA	2.02	0.40
3:A:616:THR:HB	3:A:635:ILE:HD11	2.04	0.40
3:A:691:MET:HB3	3:A:691:MET:HE2	1.60	0.40
3:A:759:ILE:HA	3:A:759:ILE:HD13	1.78	0.40
3:A:769:LEU:HA	3:A:769:LEU:HD23	1.24	0.40
3:A:856:HIS:O	3:A:857:GLY:C	2.64	0.40
4:B:72:GLU:HG3	4:B:97:THR:CG2	2.52	0.40
4:B:174:ILE:H	4:B:174:ILE:HG12	1.48	0.40
4:B:178:GLY:O	4:B:180:ARG:N	2.55	0.40
4:B:443:LYS:CB	4:B:997:LEU:H	2.34	0.40
4:B:479:LEU:HB2	4:B:481:TRP:HH2	1.85	0.40
4:B:645:LEU:N	4:B:662:LYS:HZ2	2.18	0.40
4:B:804:GLU:HA	4:B:808:ASN:HA	2.04	0.40
4:B:1049:ILE:O	4:B:1050:LYS:HB3	2.21	0.40
4:B:1052:ILE:H	4:B:1052:ILE:HG12	1.62	0.40
4:B:1177:ASN:O	4:B:1178:GLU:C	2.63	0.40
5:C:16:SER:OG	5:C:17:ARG:N	2.53	0.40
5:C:54:THR:CA	5:C:166:ILE:HG22	2.50	0.40
5:C:76:LEU:C	5:C:78:ILE:N	2.78	0.40
5:C:101:VAL:H	5:C:136:LEU:HB2	1.86	0.40
5:C:145:GLY:HA3	5:C:149:ARG:HH22	1.86	0.40
5:D:10:GLU:HG3	5:D:20:TYR:CD2	2.52	0.40
5:D:165:GLN:HG2	5:D:166:ILE:O	2.22	0.40
5:D:169:ILE:H	5:D:169:ILE:HG23	1.62	0.40
5:D:207:GLN:O	5:D:209:ALA:N	2.53	0.40
5:D:217:LEU:HD22	5:D:221:PHE:HE2	1.86	0.40
6:E:175:TYR:N	6:E:180:GLN:HG2	2.37	0.40
6:E:225:ILE:O	6:E:229:ARG:HG2	2.21	0.40
6:E:344:ARG:NE	6:E:344:ARG:HA	2.29	0.40
8:G:119:ARG:NH2	8:G:123:LYS:HZ3	2.19	0.40
9:X:171:ASP:HB3	9:X:209:LYS:CD	2.51	0.40
9:Y:35:PHE:CD1	9:Y:36:PHE:C	2.99	0.40
9:Y:40:PRO:HB3	9:Y:78:LEU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:69:LEU:HD12	9:Y:70:ARG:CD	2.41	0.40
9:Y:119:SER:CA	9:Y:122:MET:HB2	2.51	0.40
1:1:66:DG:H2'	1:1:67:DC:O4'	2.22	0.40
2:2:27:DA:C2'	8:G:237:GLU:OE1	2.70	0.40
3:A:104:LYS:HD3	4:B:559:ARG:NH1	2.36	0.40
3:A:137:ILE:HD12	3:A:137:ILE:HG23	1.63	0.40
3:A:176:GLU:O	3:A:177:THR:HG23	2.22	0.40
3:A:183:VAL:O	3:A:195:ALA:HA	2.21	0.40
3:A:271:ARG:N	3:A:290:ARG:NH2	2.67	0.40
3:A:371:VAL:O	3:A:372:ALA:O	2.39	0.40
3:A:378:PHE:CD2	3:A:378:PHE:N	2.78	0.40
3:A:489:ARG:HG2	3:A:524:VAL:HA	2.03	0.40
3:A:523:GLN:O	3:A:524:VAL:CG2	2.62	0.40
3:A:555:MET:HE3	3:A:555:MET:HB2	1.86	0.40
3:A:583:ALA:C	3:A:585:ASP:N	2.75	0.40
3:A:700:ASP:CB	6:E:468:PHE:H	2.34	0.40
3:A:737:THR:O	3:A:755:GLY:HA3	2.21	0.40
3:A:750:GLN:HA	3:A:758:ARG:HH22	1.87	0.40
3:A:926:GLU:O	3:A:928:SER:N	2.54	0.40
3:A:963:ARG:C	3:A:964:THR:CG2	2.88	0.40
3:A:974:ILE:HD13	3:A:974:ILE:HA	1.42	0.40
3:A:1085:ALA:HB1	3:A:1098:LEU:CD2	2.51	0.40
4:B:82:ARG:C	4:B:84:GLU:OE1	2.65	0.40
4:B:96:ASP:O	4:B:97:THR:C	2.63	0.40
4:B:443:LYS:HZ3	4:B:974:VAL:HA	1.87	0.40
4:B:482:ILE:CG2	4:B:970:ARG:HD2	2.52	0.40
4:B:500:ASN:CG	4:B:887:VAL:HB	2.46	0.40
4:B:503:ARG:CZ	4:B:505:GLU:HB3	2.51	0.40
4:B:825:ALA:O	4:B:826:ASP:C	2.65	0.40
4:B:848:ALA:CA	4:B:877:LEU:HD23	2.45	0.40
4:B:1032:ARG:HG2	4:B:1033:GLY:H	1.84	0.40
5:C:3:GLN:O	5:C:4:PHE:C	2.64	0.40
5:C:58:ILE:HG23	5:C:58:ILE:HD12	1.68	0.40
5:D:9:VAL:CG1	5:D:24:ILE:HG12	2.50	0.40
6:E:69:TRP:HD1	6:E:82:ARG:HA	1.85	0.40
6:E:302:GLU:OE2	6:E:302:GLU:CA	2.60	0.40
6:E:541:VAL:O	6:E:544:ALA:HB3	2.20	0.40
7:F:26:SER:O	7:F:27:ASN:C	2.63	0.40
8:G:83:ARG:O	8:G:84:LEU:C	2.64	0.40
8:G:314:SER:OG	8:G:315:LYS:HG2	2.22	0.40
8:G:317:LEU:HA	8:G:320:GLU:OE2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:318:LEU:C	8:G:318:LEU:HD23	2.45	0.40
8:G:329:LEU:H	8:G:334:ARG:HE	1.68	0.40
8:G:331:PRO:O	8:G:334:ARG:HB2	2.21	0.40
8:G:350:THR:O	8:G:353:GLU:HG2	2.22	0.40
9:X:46:PHE:O	9:X:48:LEU:N	2.55	0.40
9:X:96:THR:O	9:X:97:PRO:C	2.60	0.40
1:1:78:DA:C4	1:1:79:DA:C5	3.09	0.40
1:1:79:DA:C5	1:1:80:DA:C2	3.10	0.40
1:1:88:DA:N6	2:2:38:DT:C7	2.83	0.40
1:1:91:DT:H2"	1:1:92:DT:H73	2.04	0.40
1:1:105:DG:H21	8:G:83:ARG:HD2	1.86	0.40
1:1:105:DG:C2	8:G:86:LEU:HG	2.57	0.40
1:1:118:DG:H2"	1:1:119:DA:H2'	2.04	0.40
2:2:5:DC:H2'	2:2:5:DC:O5'	2.21	0.40
2:2:36:DT:H2"	2:2:37:DT:H71	2.04	0.40
2:2:54:DA:C4	2:2:55:DA:C4	3.10	0.40
2:2:59:DG:C8	2:2:59:DG:H5"	2.57	0.40
2:2:63:DC:C5	9:Y:187:ARG:NH1	2.82	0.40
3:A:41:PHE:CZ	3:A:332:LEU:HD23	2.57	0.40
3:A:138:VAL:H	3:A:138:VAL:HG12	1.62	0.40
3:A:557:SER:O	3:A:560:GLN:HB2	2.21	0.40
3:A:573:LEU:HA	3:A:573:LEU:HD22	1.79	0.40
3:A:653:GLN:HB3	3:A:670:ALA:CB	2.52	0.40
3:A:656:LEU:HD23	3:A:669:LEU:O	2.21	0.40
3:A:664:VAL:O	3:A:664:VAL:HG23	2.20	0.40
3:A:697:ASN:N	3:A:701:ALA:HB3	2.33	0.40
3:A:820:PHE:N	3:A:835:VAL:O	2.53	0.40
3:A:926:GLU:HG3	4:B:165:GLU:HA	2.03	0.40
3:A:1087:HIS:HE1	6:E:11:TYR:CE1	2.36	0.40
4:B:89:GLU:N	4:B:89:GLU:CD	2.68	0.40
4:B:97:THR:CA	4:B:422:GLN:HG2	2.48	0.40
4:B:389:PRO:CD	4:B:399:PRO:HG3	2.52	0.40
4:B:453:VAL:HA	4:B:483:LEU:N	2.37	0.40
4:B:497:VAL:CG2	4:B:510:LEU:O	2.70	0.40
4:B:643:ILE:HG21	4:B:676:GLN:NE2	2.30	0.40
4:B:697:PRO:C	4:B:699:ALA:N	2.79	0.40
4:B:968:ALA:HB1	4:B:970:ARG:CZ	2.51	0.40
4:B:1089:ASN:O	4:B:1090:PRO:C	2.65	0.40
4:B:1173:VAL:HG13	4:B:1174:GLU:N	2.35	0.40
4:B:1208:ILE:O	4:B:1209:SER:O	2.40	0.40
4:B:1218:ARG:O	4:B:1221:THR:OG1	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:68:VAL:HG23	5:C:69:PRO:CD	2.47	0.40
5:C:107:ILE:HD12	5:C:107:ILE:HG23	1.56	0.40
5:D:102:ASN:HA	5:D:134:GLY:O	2.21	0.40
5:D:144:ARG:HG2	5:D:145:GLY:N	2.37	0.40
5:D:180:VAL:HG12	5:D:181:GLU:N	2.36	0.40
5:D:197:GLU:O	5:D:197:GLU:HG3	2.06	0.40
6:E:42:PRO:HD2	6:E:43:GLU:OE1	2.21	0.40
6:E:149:SER:N	6:E:150:PRO:HD2	2.37	0.40
6:E:192:ALA:O	6:E:193:LEU:C	2.63	0.40
6:E:206:ALA:HB2	6:E:232:ASP:OD1	2.22	0.40
6:E:305:MET:O	6:E:307:GLN:N	2.54	0.40
6:E:485:ALA:O	6:E:488:ARG:N	2.55	0.40
6:E:505:PRO:O	6:E:505:PRO:CD	2.68	0.40
8:G:126:ARG:O	8:G:127:ASP:HB3	2.22	0.40
8:G:236:TYR:CD2	8:G:236:TYR:N	2.89	0.40
8:G:249:LEU:CD1	8:G:262:ILE:HD13	2.52	0.40
8:G:353:GLU:O	8:G:357:ILE:HG13	2.21	0.40
9:X:33:THR:CB	9:X:91:HIS:CE1	3.05	0.40
9:X:69:LEU:HD21	9:X:73:SER:CB	2.52	0.40
9:X:153:LEU:O	9:X:156:LEU:HB2	2.20	0.40
9:X:165:ALA:O	9:X:166:ASP:C	2.65	0.40
9:Y:126:LEU:HA	9:Y:129:ARG:CZ	2.50	0.40
9:Y:139:THR:HB	9:Y:151:SER:OG	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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
3	A	1075/1132 (95%)	634 (59%)	407 (38%)	34 (3%)	3 24
4	B	1209/1350 (90%)	684 (57%)	466 (38%)	59 (5%)	1 16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	C	224/236 (95%)	131 (58%)	84 (38%)	9 (4%)	2	20
5	D	224/236 (95%)	144 (64%)	72 (32%)	8 (4%)	2	22
6	E	618/625 (99%)	405 (66%)	195 (32%)	18 (3%)	3	26
7	F	56/78 (72%)	36 (64%)	19 (34%)	1 (2%)	6	34
8	G	312/390 (80%)	201 (64%)	100 (32%)	11 (4%)	3	23
9	X	194/223 (87%)	122 (63%)	61 (31%)	11 (6%)	1	13
9	Y	194/223 (87%)	124 (64%)	64 (33%)	6 (3%)	3	25
All	All	4106/4493 (91%)	2481 (60%)	1468 (36%)	157 (4%)	4	21

All (157) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	A	615	PRO
3	A	616	THR
3	A	636	ARG
3	A	778	GLU
3	A	890	PRO
3	A	1090	GLU
3	A	1091	THR
4	B	331	THR
4	B	359	LEU
4	B	384	ILE
4	B	390	ARG
4	B	391	LYS
4	B	457	GLU
4	B	732	GLU
4	B	842	ARG
4	B	1039	VAL
4	B	1087	PRO
4	B	1203	ASN
5	C	27	PRO
5	C	146	LYS
5	D	20	TYR
5	D	27	PRO
5	D	185	ALA
6	E	48	ARG
6	E	54	MET
6	E	184	VAL
7	F	49	SER
8	G	352	GLU

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Mol	Chain	Res	Type
9	X	59	GLU
9	Y	46	PHE
3	A	29	ASP
3	A	73	LYS
3	A	176	GLU
3	A	695	GLY
3	A	886	PRO
4	B	122	VAL
4	B	253	THR
4	B	283	ARG
4	B	288	CYS
4	B	310	ASP
4	B	361	ARG
4	B	372	HIS
4	B	376	ALA
4	B	406	GLN
4	B	456	ALA
4	B	519	HIS
4	B	524	ARG
4	B	653	TYR
4	B	754	SER
4	B	1038	VAL
4	B	1171	ARG
4	B	1172	GLN
5	C	161	LEU
5	C	187	GLY
5	D	16	SER
6	E	36	VAL
6	E	53	GLU
6	E	164	GLU
6	E	336	ASP
6	E	601	VAL
8	G	125	GLU
8	G	132	GLU
8	G	163	LEU
8	G	221	ALA
8	G	293	GLU
8	G	344	ASP
9	X	47	LEU
9	X	81	LEU
9	X	143	ARG
9	Y	35	PHE

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Mol	Chain	Res	Type
3	A	45	GLY
3	A	189	LYS
3	A	229	PHE
3	A	603	ALA
3	A	708	LEU
4	B	9	ASP
4	B	353	MET
4	B	371	ARG
4	B	543	SER
4	B	731	PRO
4	B	848	ALA
4	B	1060	ASP
5	D	28	LEU
6	E	55	ASP
6	E	202	LEU
8	G	209	TYR
8	G	225	GLN
9	X	113	LYS
9	Y	89	PHE
9	Y	109	GLU
9	Y	176	HIS
9	Y	198	ARG
3	A	219	PHE
3	A	631	LYS
3	A	745	GLU
3	A	887	LEU
3	A	1060	ALA
4	B	92	GLN
4	B	94	VAL
4	B	350	ARG
4	B	362	LYS
4	B	389	PRO
4	B	396	THR
4	B	525	LEU
4	B	571	VAL
4	B	584	ASN
4	B	668	ASN
4	B	734	PRO
4	B	1023	PRO
4	B	1089	ASN
4	B	1252	ASN
5	C	16	SER

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Mol	Chain	Res	Type
5	C	26	GLU
5	C	135	LYS
5	C	172	PRO
5	D	172	PRO
5	D	189	ILE
6	E	68	ASP
6	E	163	SER
6	E	221	ARG
6	E	237	THR
9	X	216	VAL
3	A	103	ASN
3	A	193	LEU
3	A	286	PRO
3	A	634	GLU
3	A	916	ILE
3	A	927	SER
4	B	662	LYS
4	B	902	HIS
5	C	222	ASN
5	D	26	GLU
6	E	272	LEU
6	E	493	ALA
8	G	345	ASP
9	X	42	GLU
9	X	114	GLU
9	X	142	HIS
3	A	807	PRO
4	B	1164	PRO
6	E	207	GLU
8	G	360	VAL
3	A	252	GLY
9	X	40	PRO
3	A	598	VAL
4	B	134	ILE
4	B	399	PRO
3	A	692	PRO
4	B	412	ILE
9	X	215	PRO
3	A	392	PRO
3	A	773	VAL
4	B	360	PRO
4	B	413	VAL

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Mol	Chain	Res	Type
4	B	526	PRO
6	E	433	ALA
4	B	521	GLY

5.3.2 Protein sidechains (i)

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	
3	A	918/969 (95%)	886 (96%)	32 (4%)	32	57
4	B	1017/1132 (90%)	972 (96%)	45 (4%)	25	52
5	C	196/205 (96%)	188 (96%)	8 (4%)	27	53
5	D	196/205 (96%)	185 (94%)	11 (6%)	19	47
6	E	534/538 (99%)	500 (94%)	34 (6%)	16	43
7	F	50/69 (72%)	49 (98%)	1 (2%)	48	66
8	G	282/351 (80%)	270 (96%)	12 (4%)	26	52
9	X	172/194 (89%)	161 (94%)	11 (6%)	16	43
9	Y	172/194 (89%)	165 (96%)	7 (4%)	27	53
All	All	3537/3857 (92%)	3376 (95%)	161 (5%)	25	51

All (161) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	64	GLU
3	A	65	LEU
3	A	66	HIS
3	A	68	LEU
3	A	99	THR
3	A	101	LEU
3	A	121	LEU
3	A	202	LEU
3	A	217	GLU
3	A	238	LEU
3	A	466	VAL

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Mol	Chain	Res	Type
3	A	471	VAL
3	A	474	ASP
3	A	485	GLU
3	A	537	VAL
3	A	610	VAL
3	A	614	LEU
3	A	649	THR
3	A	650	CYS
3	A	656	LEU
3	A	694	GLU
3	A	748	LEU
3	A	823	GLU
3	A	891	SER
3	A	912	VAL
3	A	916	ILE
3	A	921	GLU
3	A	948	VAL
3	A	972	VAL
3	A	986	VAL
3	A	1022	VAL
3	A	1059	LYS
4	B	7	VAL
4	B	9	ASP
4	B	50	SER
4	B	51	ILE
4	B	117	ASN
4	B	122	VAL
4	B	202	ASP
4	B	212	ILE
4	B	248	VAL
4	B	294	VAL
4	B	298	CYS
4	B	317	ILE
4	B	349	VAL
4	B	374	GLU
4	B	386	ILE
4	B	389	PRO
4	B	409	THR
4	B	412	ILE
4	B	469	ASN
4	B	512	GLU
4	B	522	VAL

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Mol	Chain	Res	Type
4	B	523	VAL
4	B	546	LEU
4	B	600	THR
4	B	728	VAL
4	B	755	THR
4	B	822	LEU
4	B	823	GLU
4	B	883	ILE
4	B	885	ARG
4	B	894	VAL
4	B	1025	GLU
4	B	1039	VAL
4	B	1134	ILE
4	B	1136	ILE
4	B	1139	LYS
4	B	1173	VAL
4	B	1189	GLN
4	B	1193	VAL
4	B	1197	ILE
4	B	1199	LYS
4	B	1214	GLN
4	B	1216	THR
4	B	1217	THR
4	B	1232	LEU
5	C	12	ASN
5	C	34	THR
5	C	35	THR
5	C	36	VAL
5	C	91	SER
5	C	93	GLN
5	C	161	LEU
5	C	224	LEU
5	D	6	ILE
5	D	9	VAL
5	D	14	GLU
5	D	36	VAL
5	D	95	GLN
5	D	150	THR
5	D	151	VAL
5	D	186	ASP
5	D	222	ASN
5	D	226	ASP

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Mol	Chain	Res	Type
5	D	228	SER
6	E	16	LEU
6	E	20	GLU
6	E	22	ILE
6	E	24	GLN
6	E	27	GLU
6	E	30	LEU
6	E	39	VAL
6	E	41	LYS
6	E	45	ILE
6	E	79	VAL
6	E	91	VAL
6	E	94	THR
6	E	148	LEU
6	E	149	SER
6	E	155	THR
6	E	156	LEU
6	E	157	THR
6	E	165	ASP
6	E	176	SER
6	E	177	GLU
6	E	240	LYS
6	E	242	GLU
6	E	378	GLU
6	E	379	MET
6	E	397	MET
6	E	398	VAL
6	E	435	THR
6	E	442	GLN
6	E	537	SER
6	E	538	LEU
6	E	558	VAL
6	E	580	GLU
6	E	600	ASN
6	E	609	THR
7	F	63	ILE
8	G	98	ASP
8	G	99	GLU
8	G	101	ILE
8	G	106	LYS
8	G	166	VAL
8	G	175	ASN

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Mol	Chain	Res	Type
8	G	178	LEU
8	G	298	LEU
8	G	336	VAL
8	G	337	LEU
8	G	371	LYS
8	G	387	GLU
9	X	74	VAL
9	X	117	GLU
9	X	130	ILE
9	X	132	GLN
9	X	136	MET
9	X	153	LEU
9	X	155	ILE
9	X	194	LEU
9	X	203	ILE
9	X	206	HIS
9	X	209	LYS
9	Y	57	VAL
9	Y	132	GLN
9	Y	137	ILE
9	Y	140	LEU
9	Y	144	ASP
9	Y	150	VAL
9	Y	191	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (67) such sidechains are listed below:

Mol	Chain	Res	Type
3	A	66	HIS
3	A	70	HIS
3	A	71	ASN
3	A	140	GLN
3	A	278	ASN
3	A	319	HIS
3	A	454	ASN
3	A	514	GLN
3	A	523	GLN
3	A	624	ASN
3	A	643	GLN
3	A	653	GLN
3	A	684	GLN
3	A	856	HIS

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Mol	Chain	Res	Type
3	A	858	ASN
3	A	885	ASN
3	A	1015	GLN
4	B	12	GLN
4	B	112	HIS
4	B	117	ASN
4	B	296	GLN
4	B	406	GLN
4	B	469	ASN
4	B	560	ASN
4	B	573	ASN
4	B	584	ASN
4	B	625	GLN
4	B	667	GLN
4	B	760	GLN
4	B	831	GLN
4	B	939	GLN
4	B	989	GLN
4	B	1118	GLN
4	B	1130	GLN
4	B	1189	GLN
4	B	1214	GLN
4	B	1252	ASN
5	C	12	ASN
5	C	102	ASN
5	C	125	GLN
5	C	207	GLN
5	C	222	ASN
5	D	12	ASN
5	D	18	ASN
5	D	32	GLN
5	D	93	GLN
5	D	111	HIS
5	D	125	GLN
5	D	207	GLN
5	D	222	ASN
6	E	24	GLN
6	E	46	ASN
6	E	138	GLN
6	E	166	GLN
6	E	261	GLN
6	E	411	ASN

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Mol	Chain	Res	Type
6	E	549	GLN
6	E	616	ASN
8	G	149	HIS
8	G	175	ASN
8	G	181	GLN
8	G	225	GLN
8	G	234	HIS
8	G	312	GLN
8	G	378	HIS
9	X	142	HIS
9	Y	31	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	A	18

Continued on next page...

Continued from previous page...

Mol	Chain	Number of breaks
6	E	16
4	B	7
5	C	5
5	D	5
8	G	2
2	2	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	67:DA	O3'	68:DT	P	1.90
1	A	144:SER	C	145:PRO	N	1.20
1	E	256:LEU	C	257:ARG	N	1.20
1	E	374:GLY	C	375:LEU	N	1.20
1	A	247:PRO	C	248:PRO	N	1.19
1	A	690:TYR	C	691:MET	N	1.19
1	E	60:GLU	C	61:ARG	N	1.19
1	E	384:PHE	C	385:GLN	N	1.19
1	E	572:GLU	C	573:PRO	N	1.19
1	G	288:THR	C	289:PRO	N	1.19
1	A	166:ILE	C	167:PRO	N	1.18
1	A	806:VAL	C	807:PRO	N	1.18
1	B	508:GLY	C	509:VAL	N	1.18
1	B	1011:LEU	C	1012:PRO	N	1.18
1	E	507:ILE	C	508:THR	N	1.18
1	A	490:VAL	C	491:ALA	N	1.17
1	G	201:GLU	C	202:LYS	N	1.17
1	A	520:THR	C	521:PRO	N	1.16
1	A	996:GLY	C	997:PRO	N	1.16
1	A	1078:GLN	C	1079:SER	N	1.16
1	C	44:LEU	C	45:LEU	N	1.16
1	C	103:GLY	C	104:PRO	N	1.16
1	D	44:LEU	C	45:LEU	N	1.16
1	D	103:GLY	C	104:PRO	N	1.16
1	E	116:TRP	C	117:TYR	N	1.16
1	E	142:PHE	C	143:ASN	N	1.16
1	B	708:LEU	C	709:GLN	N	1.15
1	E	348:ASN	C	349:LEU	N	1.15
1	A	143:ARG	C	144:SER	N	1.14
1	A	495:ILE	C	496:PRO	N	1.14
1	C	171:MET	C	172:PRO	N	1.14
1	D	171:MET	C	172:PRO	N	1.14
1	A	1004:GLN	C	1005:PRO	N	1.13

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	258:ALA	C	259:PRO	N	1.13
1	B	262:THR	C	263:PRO	N	1.13
1	E	477:VAL	C	478:PRO	N	1.13
1	B	220:ILE	C	221:PRO	N	1.12
1	A	391:ASN	C	392:PRO	N	1.11
1	A	423:HIS	C	424:PRO	N	1.11
1	A	866:LEU	C	867:PRO	N	1.11
1	C	205:SER	C	206:PRO	N	1.10
1	D	205:SER	C	206:PRO	N	1.10
1	E	249:ILE	C	250:PRO	N	1.10
1	E	499:SER	C	500:PRO	N	1.09
1	A	564:VAL	C	565:PRO	N	1.08
1	E	253:PRO	C	254:PRO	N	1.08
1	E	508:THR	C	509:PRO	N	1.08
1	E	51:LYS	C	52:PRO	N	1.07
1	E	385:GLN	C	386:PRO	N	1.06
1	A	27:LEU	C	28:PRO	N	1.05
1	B	974:VAL	C	975:SER	N	1.04
1	A	865:ILE	C	866:LEU	N	0.98
1	C	170:PHE	C	171:MET	N	0.98
1	D	170:PHE	C	171:MET	N	0.98

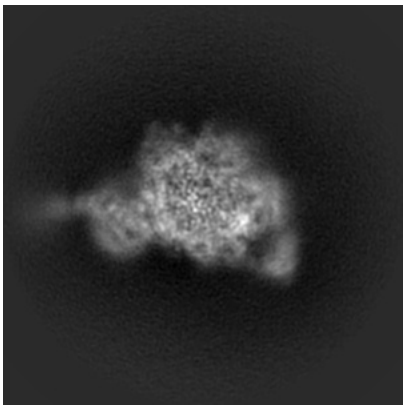
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-34476. These allow visual inspection of the internal detail of the map and identification of artifacts.

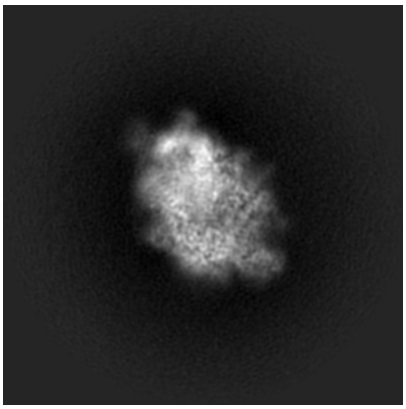
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

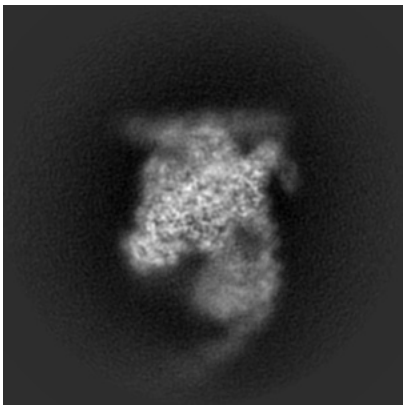
6.1.1 Primary map



X

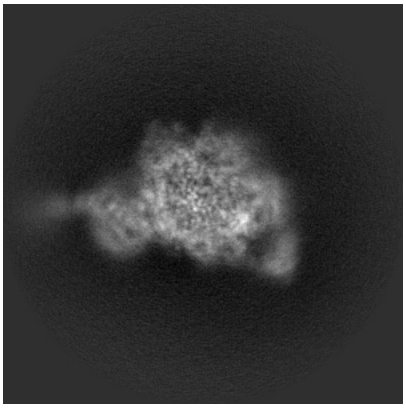


Y

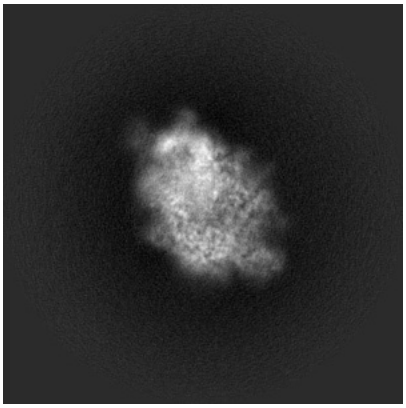


Z

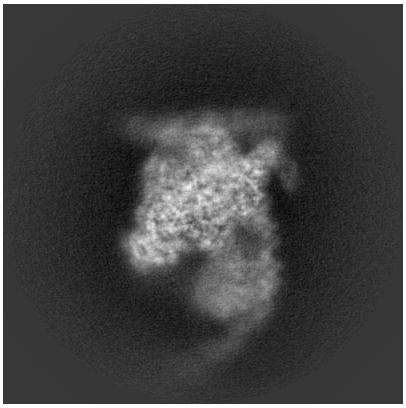
6.1.2 Raw map



X



Y

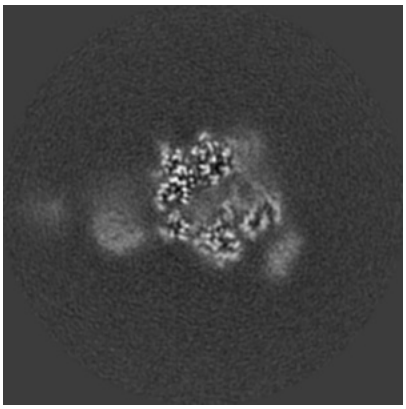


Z

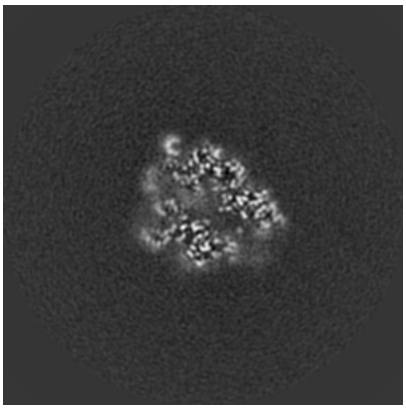
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

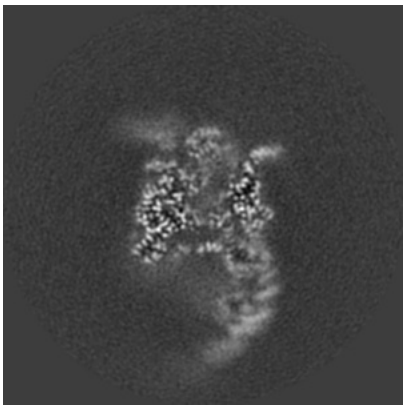
6.2.1 Primary map



X Index: 150

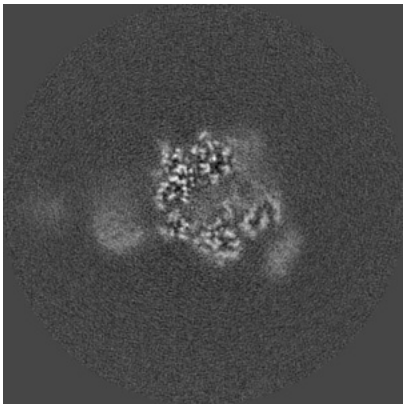


Y Index: 150

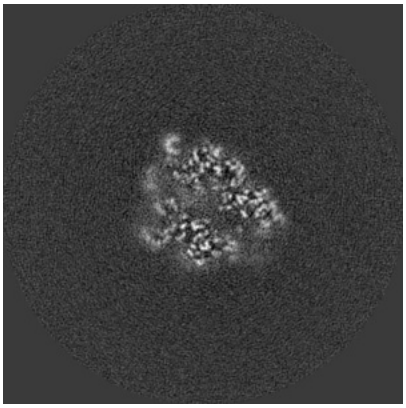


Z Index: 150

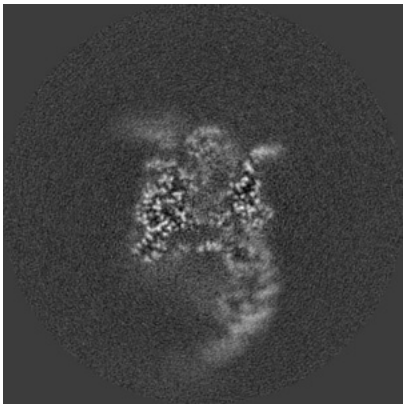
6.2.2 Raw map



X Index: 150



Y Index: 150

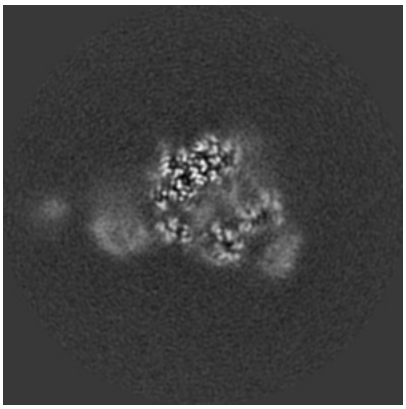


Z Index: 150

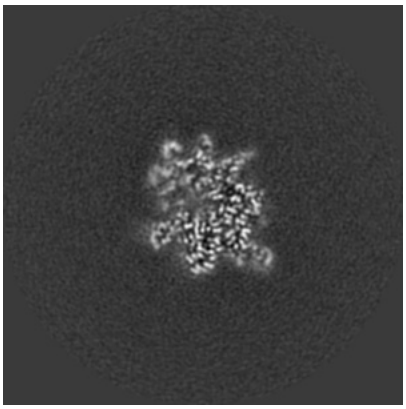
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

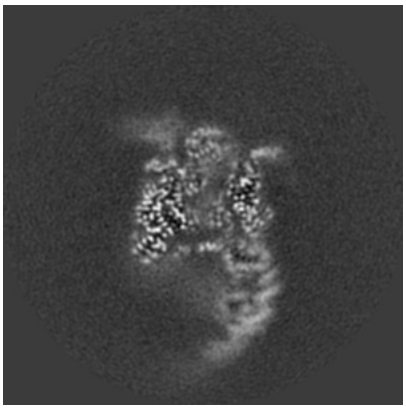
6.3.1 Primary map



X Index: 154

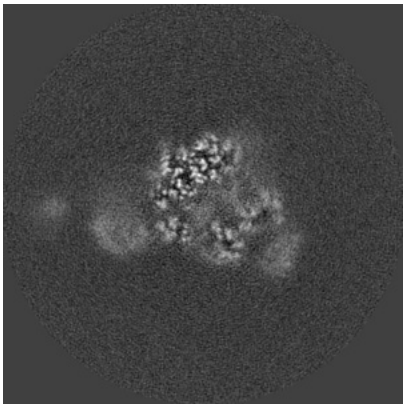


Y Index: 143

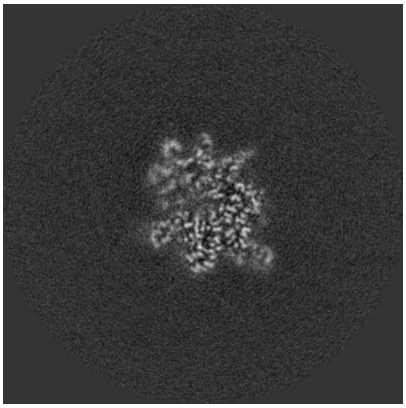


Z Index: 149

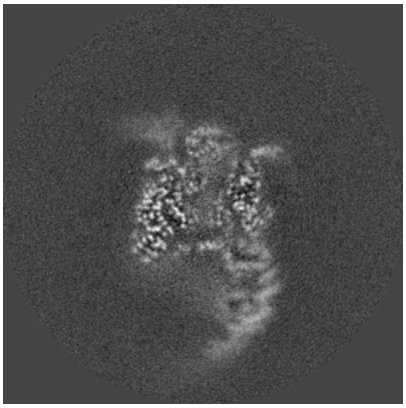
6.3.2 Raw map



X Index: 154



Y Index: 143

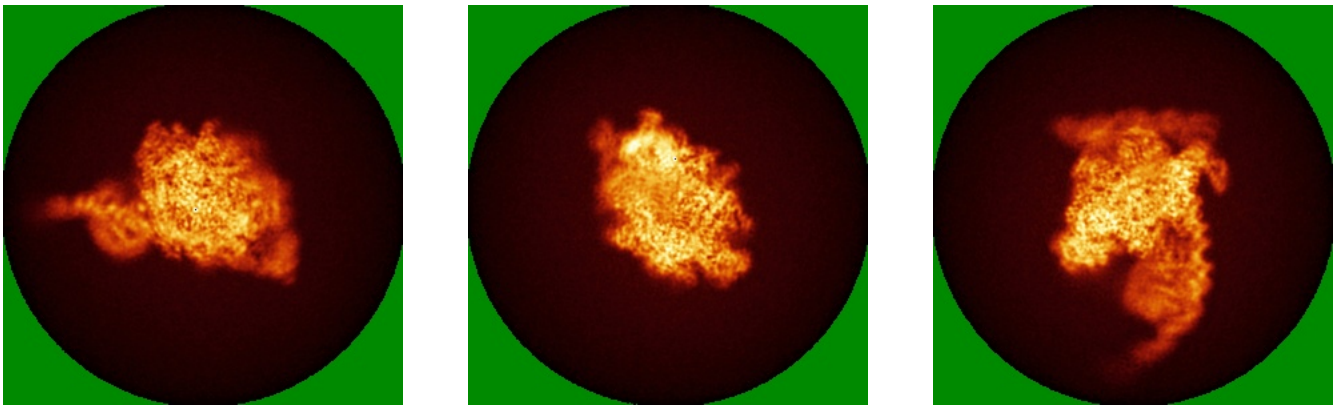


Z Index: 149

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

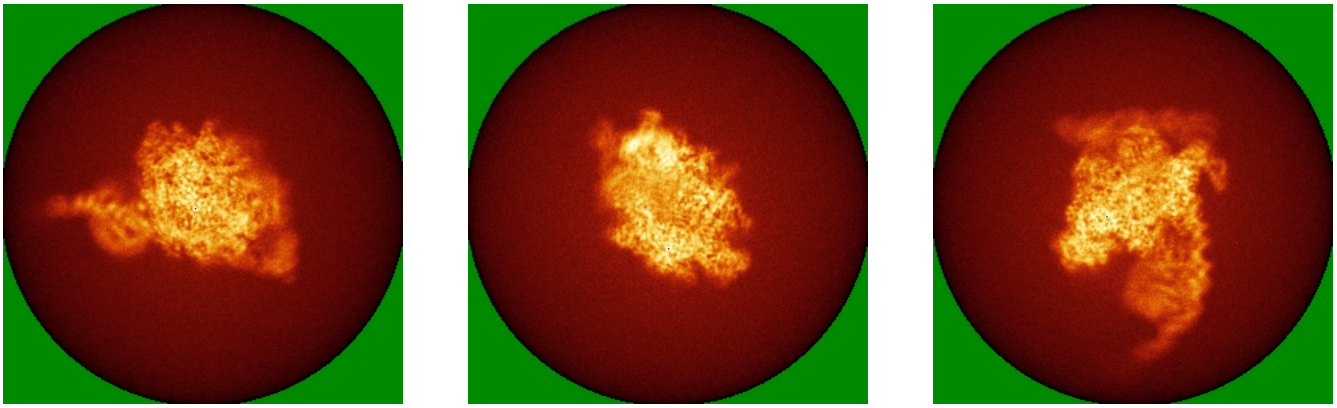
6.4 Orthogonal standard-deviation projections (False-color) (i)

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.

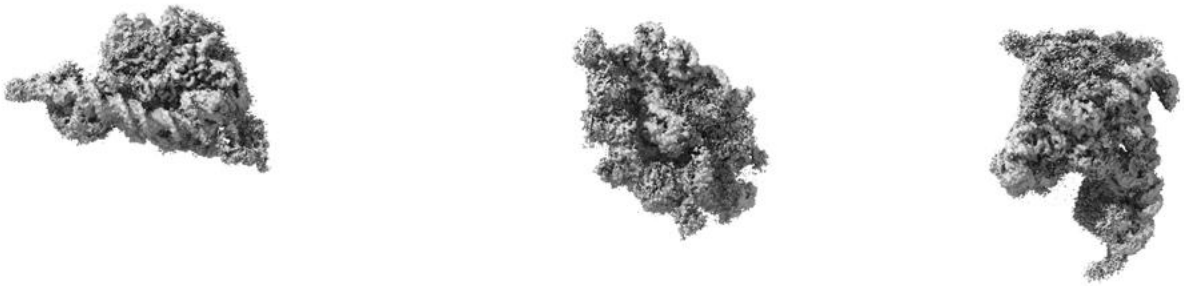
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.01. 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



X Y Z

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.

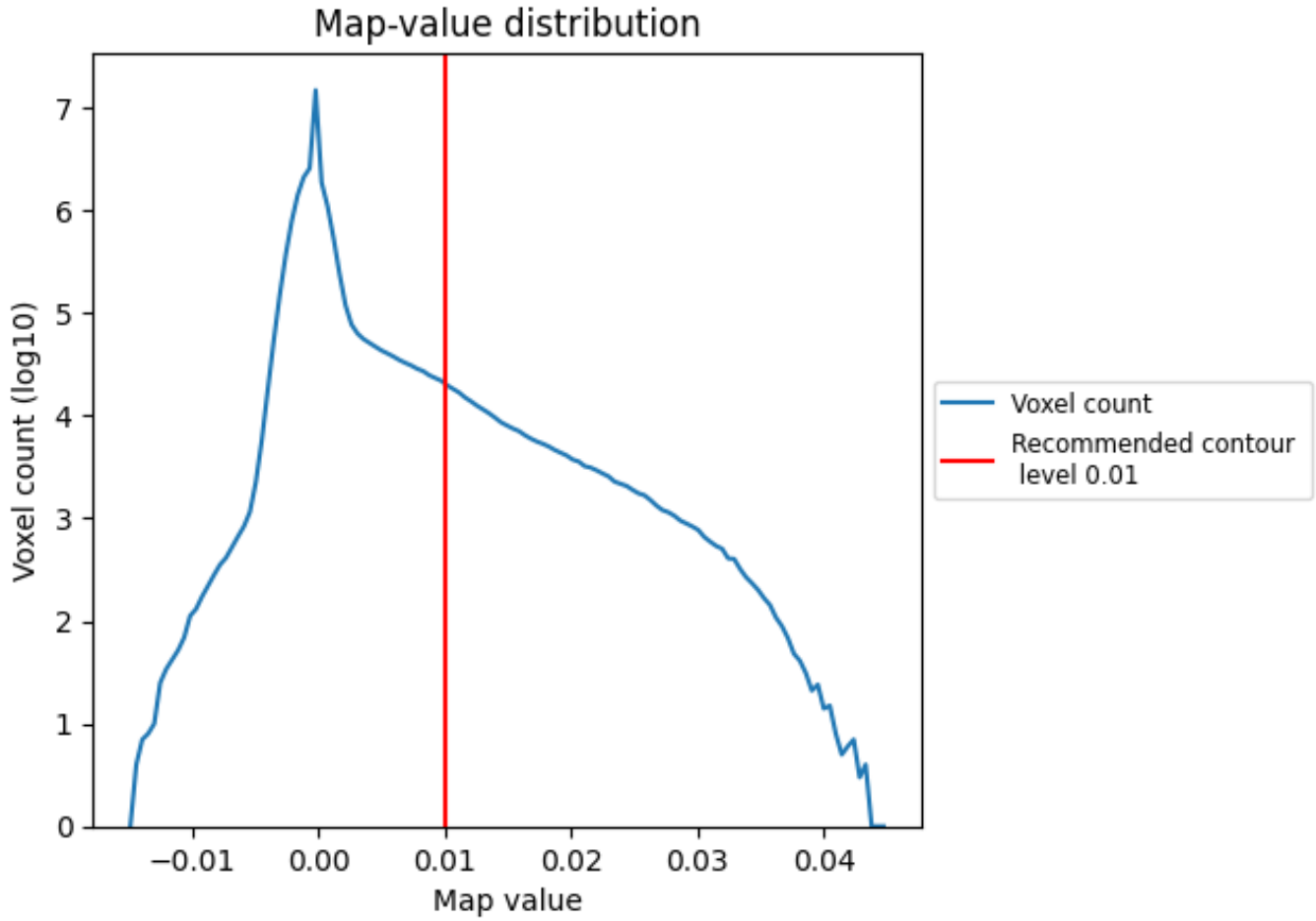
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

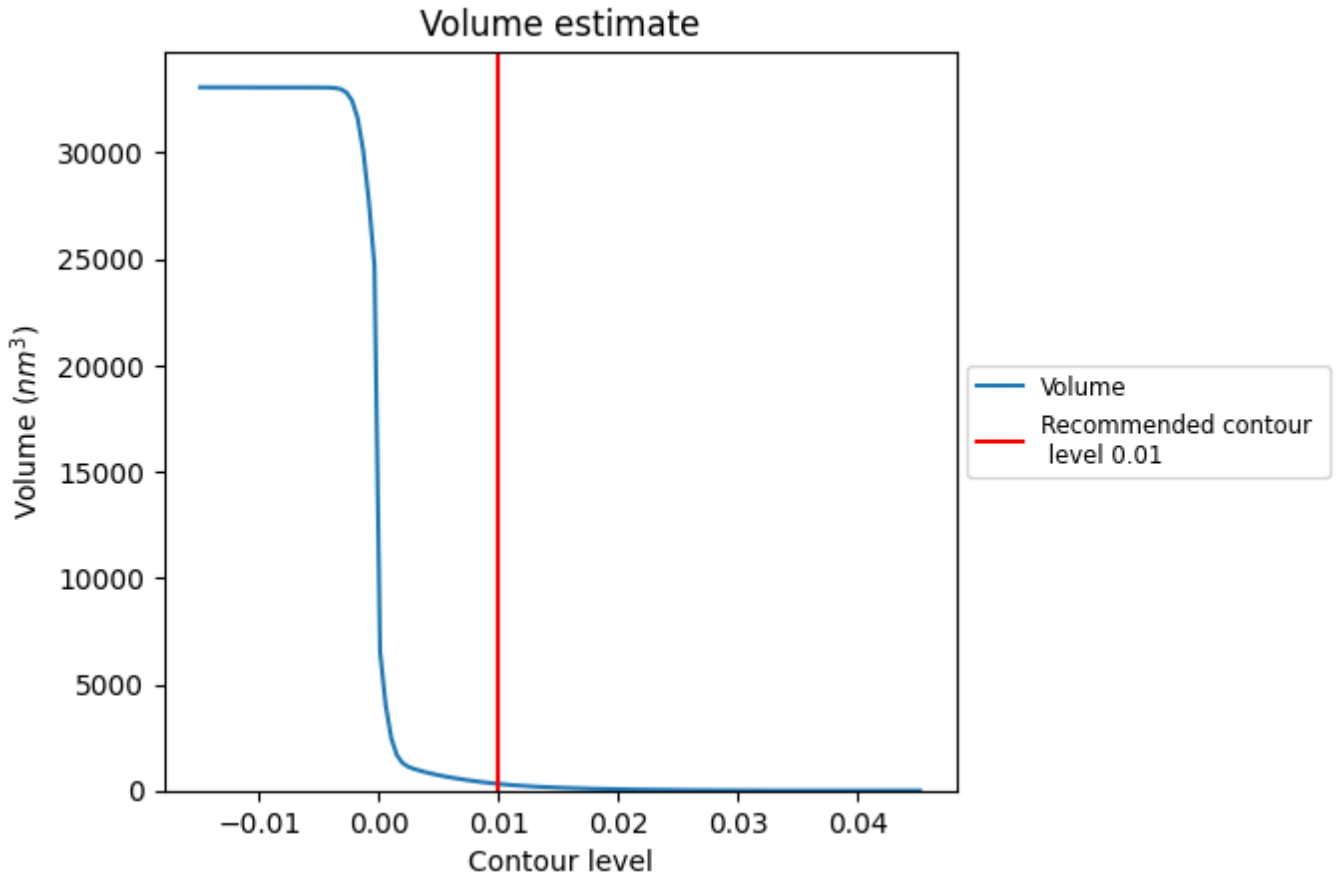
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

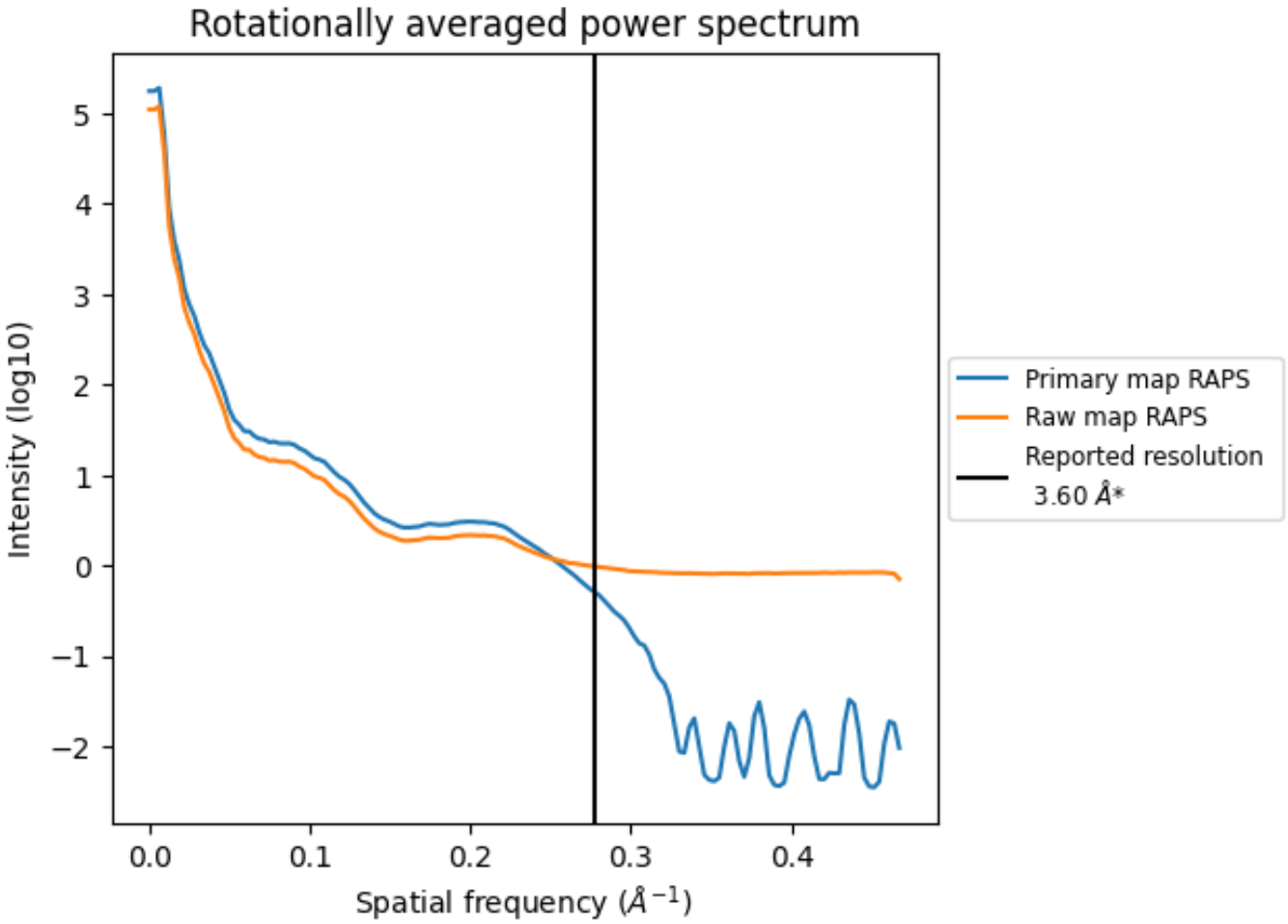
7.2 Volume estimate



The volume at the recommended contour level is 315 nm^3; this corresponds to an approximate mass of 284 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

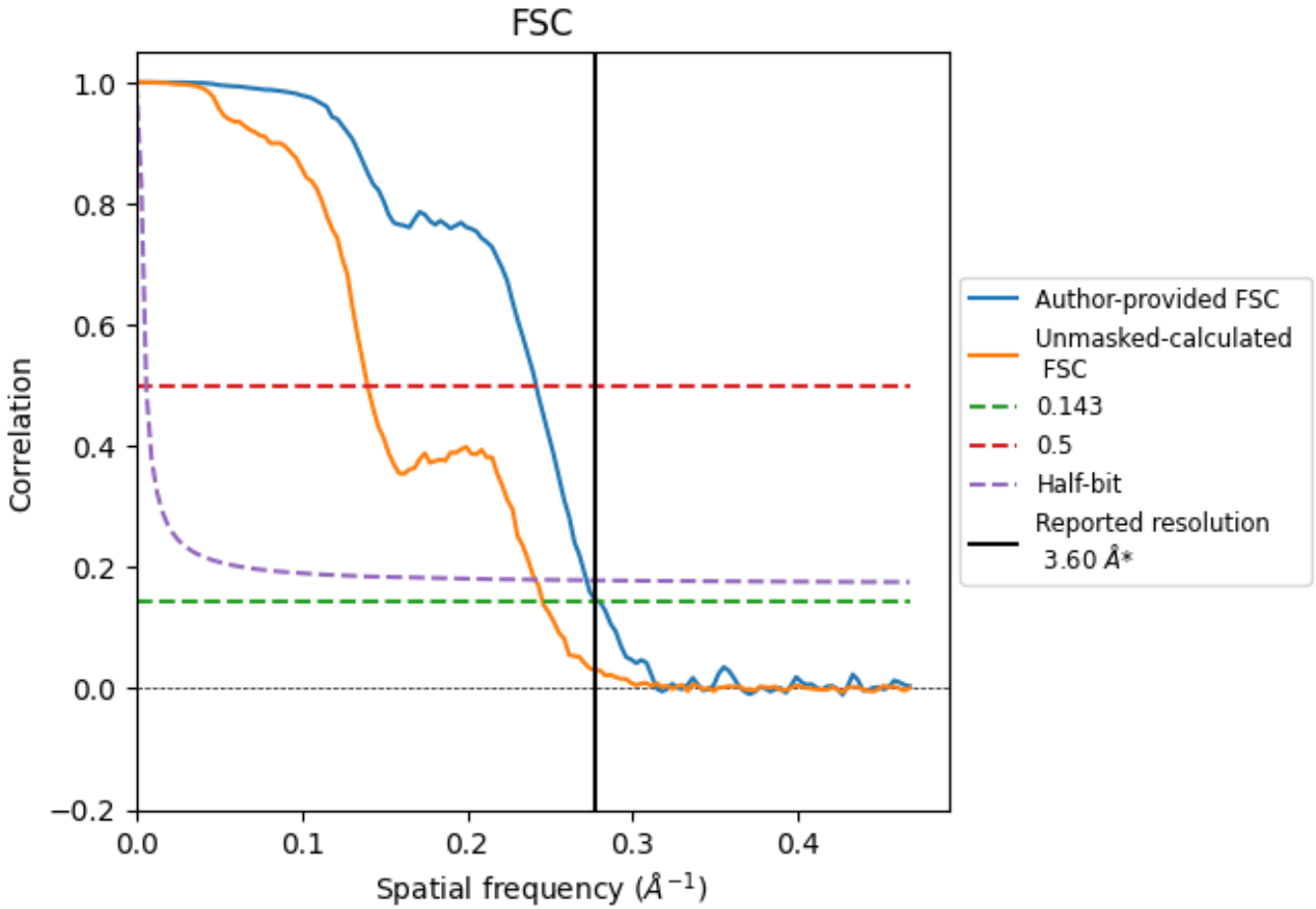


*Reported resolution corresponds to spatial frequency of 0.278 Å^{-1}

8 Fourier-Shell correlation

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



*Reported resolution corresponds to spatial frequency of 0.278 Å^{-1}

8.2 Resolution estimates (i)

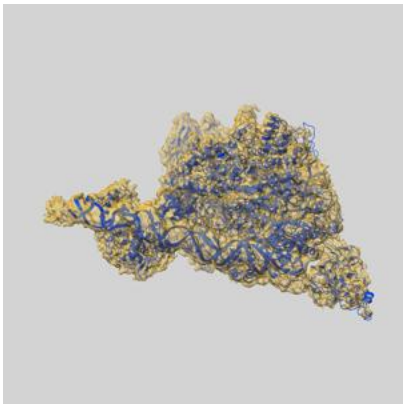
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	3.57	4.14	3.67
Unmasked-calculated*	4.07	7.15	4.15

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.07 differs from the reported value 3.6 by more than 10 %

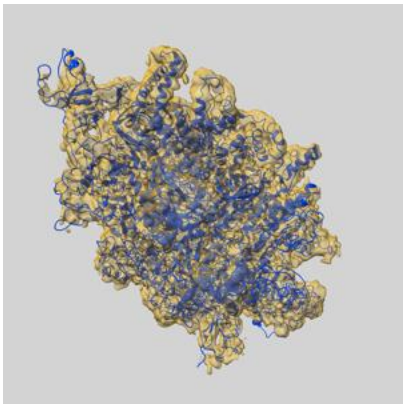
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-34476 and PDB model 8H40. Per-residue inclusion information can be found in section 3 on page 6.

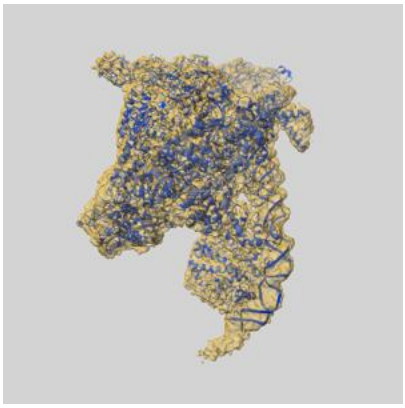
9.1 Map-model overlay



X



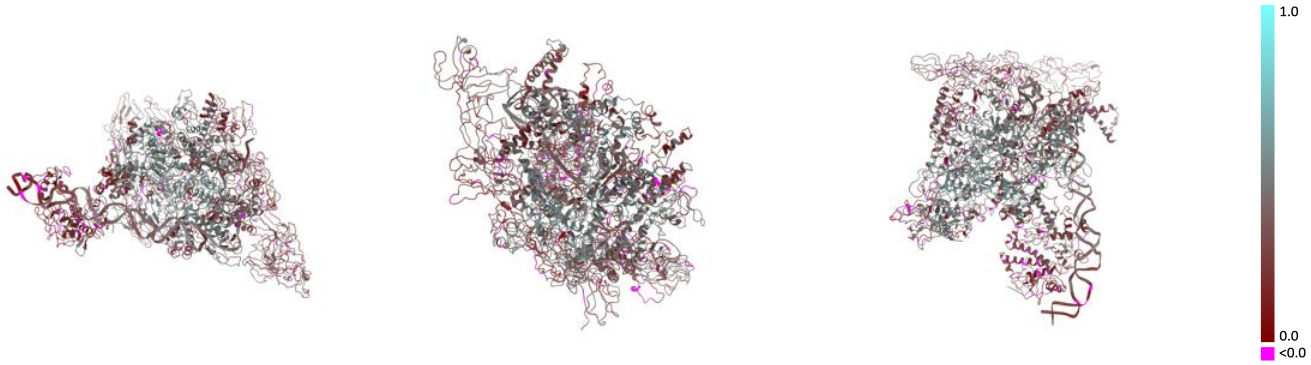
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.01 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.

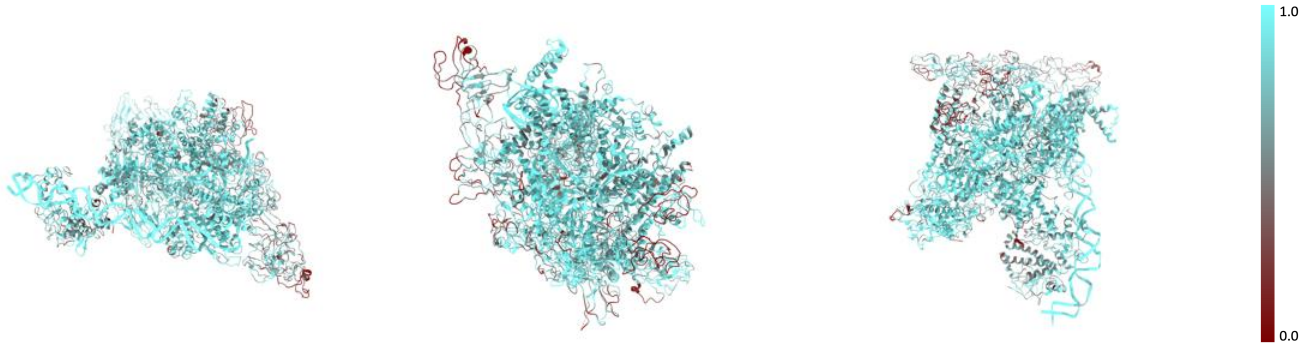
9.2 Q-score mapped to coordinate model



X Y Z

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.

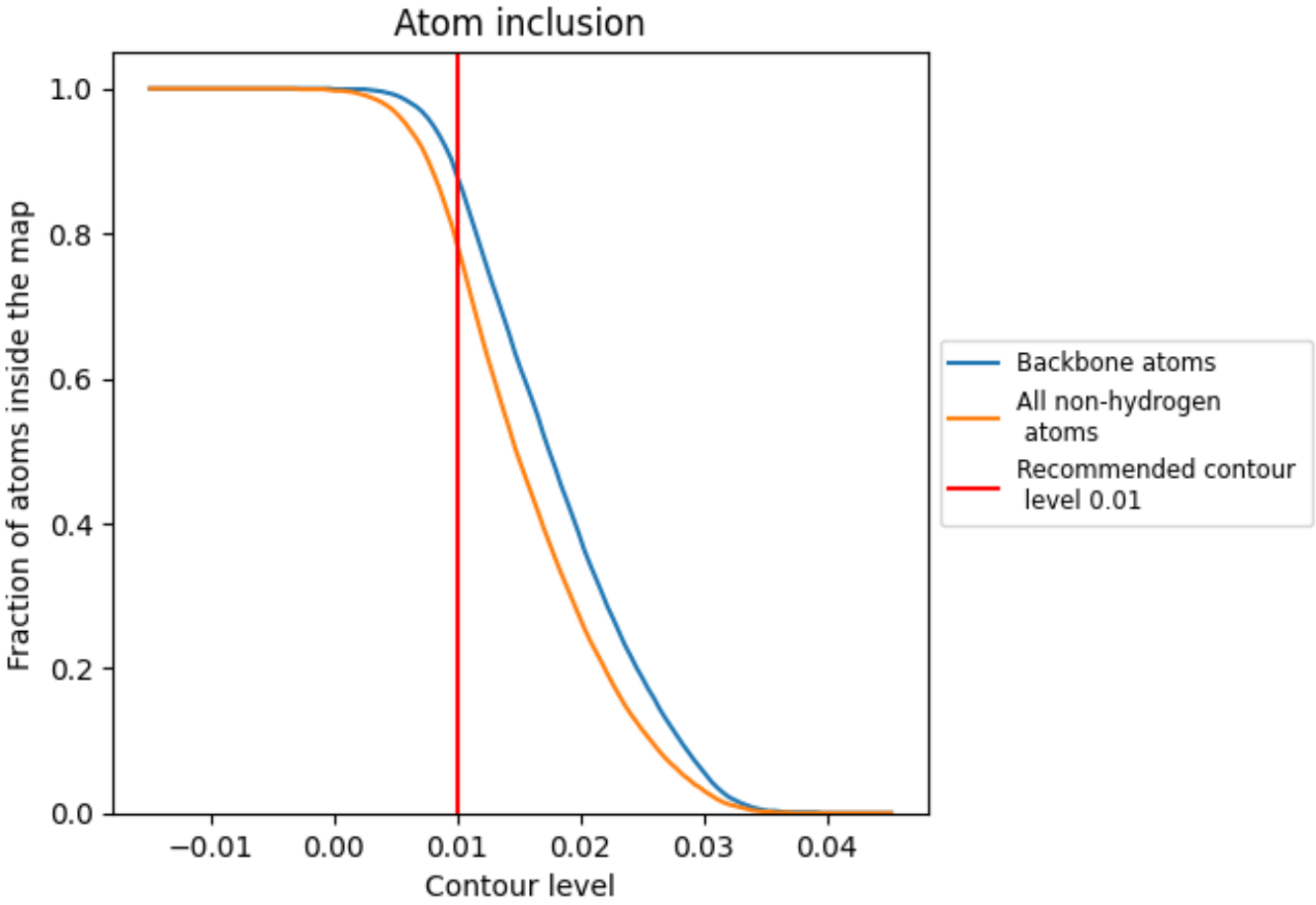
9.3 Atom inclusion mapped to coordinate model



X Y Z

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 (0.01).

9.4 Atom inclusion (i)



At the recommended contour level, 88% of all backbone atoms, 78% 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 (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7850	0.3530
1	0.9600	0.3610
2	0.9420	0.3380
A	0.8800	0.4270
B	0.6250	0.3320
C	0.8400	0.3720
D	0.8060	0.3160
E	0.8600	0.4120
F	0.7460	0.3130
G	0.8080	0.3080
X	0.7120	0.2080
Y	0.6830	0.1450