



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 10:04 PM UTC

PDB ID : 5W66 / pdb_00005w66
EMDB ID : EMD-8776
Title : RNA polymerase I Initial Transcribing Complex State 3
Authors : Han, Y.; He, Y.
Deposited on : 2017-06-16
Resolution : 3.90 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

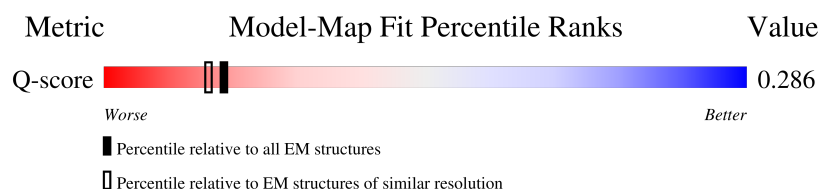
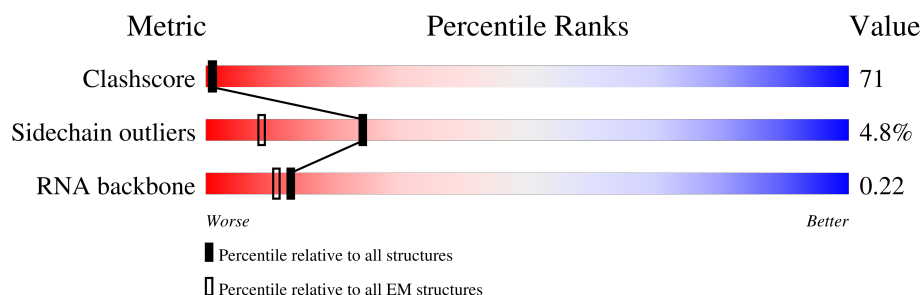
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.90 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.



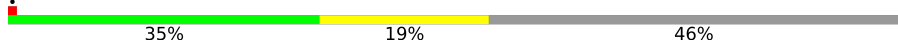
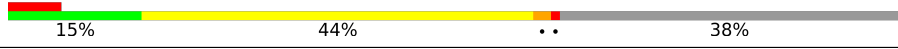
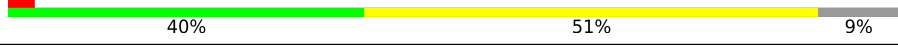
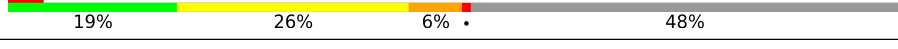
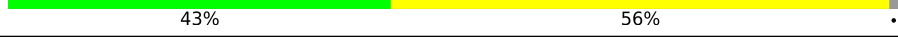
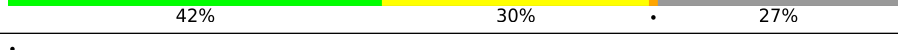
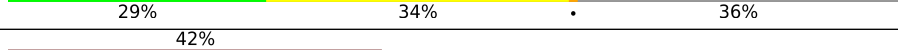
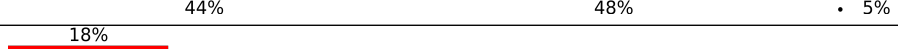
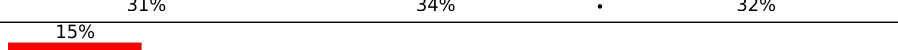
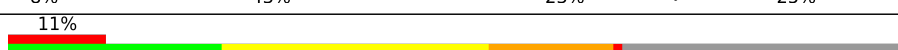
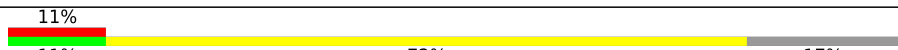
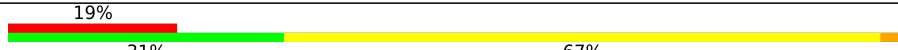
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	8855 (3.40 - 4.40)

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

Mol	Chain	Length	Quality of chain
1	A	1664	
2	B	1203	
3	C	335	
4	D	137	

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Mol	Chain	Length	Quality of chain
5	E	215	
6	F	155	
7	G	326	
8	H	146	
9	I	125	
10	J	70	
11	K	142	
12	L	70	
13	M	415	
14	N	233	
15	O	894	
16	P	514	
17	Q	507	
18	R	6	
19	S	54	
20	T	54	

2 Entry composition

There are 21 unique types of molecules in this entry. The entry contains 48857 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase I subunit RPA190.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1461	Total	C	N	O	S	0	0
			11542	7292	2004	2184	62		

- Molecule 2 is a protein called DNA-directed RNA polymerase I subunit RPA135.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1178	Total	C	N	O	S	0	0
			9351	5911	1639	1750	51		

- Molecule 3 is a protein called DNA-directed RNA polymerases I and III subunit RPAC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	306	Total	C	N	O	S	0	0
			2431	1544	417	462	8		

- Molecule 4 is a protein called DNA-directed RNA polymerase I subunit RPA14.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	D	59	Total	C	N	O	0	0
			467	293	80	94		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	215	Total	C	N	O	S	0	0
			1759	1116	310	321	12		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	83	Total	C	N	O	S	0	0
			670	428	114	125	3		

- Molecule 7 is a protein called DNA-directed RNA polymerase I subunit RPA43.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	201	Total	C	N	O	S	0	0
			1592	1022	275	290	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	133	Total	C	N	O	S	0	0
			1070	676	181	209	4		

- Molecule 9 is a protein called DNA-directed RNA polymerase I subunit RPA12.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	65	Total	C	N	O	S	0	0
			479	300	79	96	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	69	Total	C	N	O	S	0	0
			569	362	101	100	6		

- Molecule 11 is a protein called DNA-directed RNA polymerases I and III subunit RPAC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	103	Total	C	N	O	S	0	0
			810	506	132	167	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	45	Total	C	N	O	S	0	0
			358	221	71	62	4		

- Molecule 13 is a protein called DNA-directed RNA polymerase I subunit RPA49.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	M	396	Total	C	N	O	S	0	0
			3131	1997	531	599	4		

- Molecule 14 is a protein called DNA-directed RNA polymerase I subunit RPA34.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N	158	Total	C	N	O	S	0	0
			1254	799	205	246	4		

- Molecule 15 is a protein called RNA polymerase I-specific transcription initiation factor RRN6.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O	640	Total	C	N	O	S	0	0
			5063	3218	872	964	9		

There are 53 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
O	3	UNK	HIS	SEE REMARK 999	UNP P32786
O	4	UNK	PHE	SEE REMARK 999	UNP P32786
O	5	UNK	PHE	SEE REMARK 999	UNP P32786
O	6	UNK	LYS	SEE REMARK 999	UNP P32786
O	7	UNK	LYS	SEE REMARK 999	UNP P32786
O	8	UNK	VAL	SEE REMARK 999	UNP P32786
O	9	UNK	ASP	SEE REMARK 999	UNP P32786
O	10	UNK	VAL	SEE REMARK 999	UNP P32786
O	11	UNK	GLY	SEE REMARK 999	UNP P32786
O	12	UNK	ASN	SEE REMARK 999	UNP P32786
O	13	UNK	ASP	SEE REMARK 999	UNP P32786
O	14	UNK	SER	SEE REMARK 999	UNP P32786
O	15	UNK	MET	SEE REMARK 999	UNP P32786
O	16	UNK	PHE	SEE REMARK 999	UNP P32786
O	17	UNK	GLY	SEE REMARK 999	UNP P32786
O	18	UNK	VAL	SEE REMARK 999	UNP P32786
O	19	UNK	ASN	SEE REMARK 999	UNP P32786
O	20	UNK	CYS	SEE REMARK 999	UNP P32786
O	21	UNK	ASP	SEE REMARK 999	UNP P32786
O	22	UNK	THR	SEE REMARK 999	UNP P32786
O	23	UNK	PRO	SEE REMARK 999	UNP P32786
O	24	UNK	VAL	SEE REMARK 999	UNP P32786
O	25	UNK	SER	SEE REMARK 999	UNP P32786
O	26	UNK	PHE	SEE REMARK 999	UNP P32786
O	27	UNK	GLN	SEE REMARK 999	UNP P32786
O	28	UNK	ASP	SEE REMARK 999	UNP P32786
O	41	UNK	TYR	SEE REMARK 999	UNP P32786
O	42	UNK	ILE	SEE REMARK 999	UNP P32786
O	43	UNK	PRO	SEE REMARK 999	UNP P32786
O	44	UNK	SER	SEE REMARK 999	UNP P32786

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Chain	Residue	Modelled	Actual	Comment	Reference
O	45	UNK	ASP	SEE REMARK 999	UNP P32786
O	46	UNK	LEU	SEE REMARK 999	UNP P32786
O	47	UNK	LEU	SEE REMARK 999	UNP P32786
O	48	UNK	ARG	SEE REMARK 999	UNP P32786
O	49	UNK	ASN	SEE REMARK 999	UNP P32786
O	50	UNK	LEU	SEE REMARK 999	UNP P32786
O	51	UNK	ASP	SEE REMARK 999	UNP P32786
O	52	UNK	ASP	SEE REMARK 999	UNP P32786
O	53	UNK	THR	SEE REMARK 999	UNP P32786
O	54	UNK	LEU	SEE REMARK 999	UNP P32786
O	55	UNK	GLN	SEE REMARK 999	UNP P32786
O	56	UNK	GLU	SEE REMARK 999	UNP P32786
O	57	UNK	SER	SEE REMARK 999	UNP P32786
O	58	UNK	THR	SEE REMARK 999	UNP P32786
O	59	UNK	ASN	SEE REMARK 999	UNP P32786
O	60	UNK	SER	SEE REMARK 999	UNP P32786
O	61	UNK	SER	SEE REMARK 999	UNP P32786
O	62	UNK	ARG	SEE REMARK 999	UNP P32786
O	63	UNK	PRO	SEE REMARK 999	UNP P32786
O	64	UNK	MET	SEE REMARK 999	UNP P32786
O	65	UNK	GLN	SEE REMARK 999	UNP P32786
O	66	UNK	ASP	SEE REMARK 999	UNP P32786
O	67	UNK	ALA	SEE REMARK 999	UNP P32786

- Molecule 16 is a protein called RNA polymerase I-specific transcription initiation factor RRN7.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	P	387	Total	C	N	O	S	0	0
			3238	2105	540	576	17		

- Molecule 17 is a protein called RNA polymerase I-specific transcription initiation factor RRN11.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Q	349	Total	C	N	O	S	0	0
			2923	1881	513	518	11		

- Molecule 18 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	R	6	Total	C	N	O	P	0	0
			127	58	25	39	5		

- Molecule 19 is a DNA chain called non-template strand DNA.

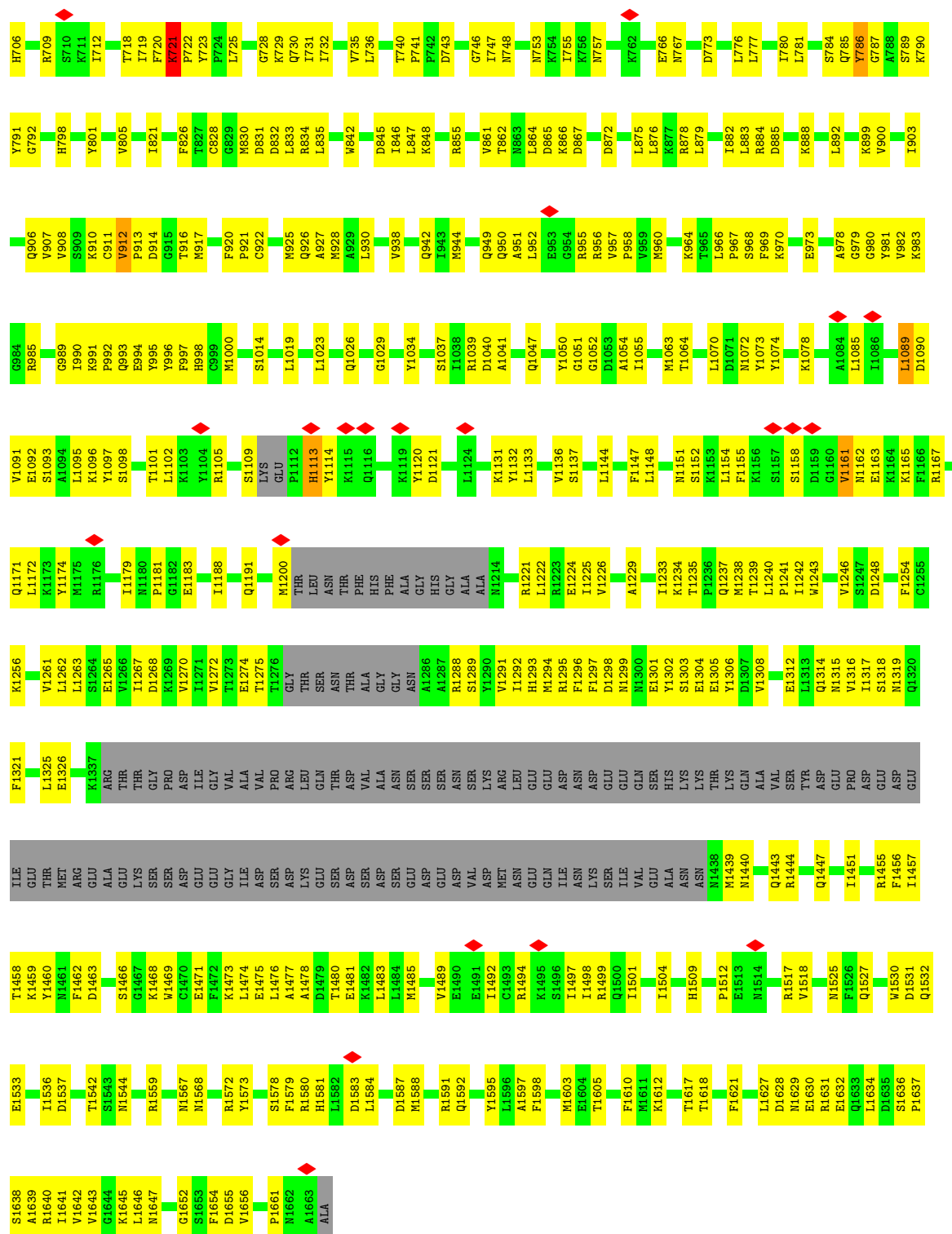
Mol	Chain	Residues	Atoms					AltConf	Trace
19	S	45	Total	C	N	O	P	0	0
			935	447	174	270	44		

- Molecule 20 is a DNA chain called template strand DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	T	54	Total	C	N	O	P	0	0
			1082	522	177	330	53		

- Molecule 21 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
21	A	2	Total	Zn	0
			2	2	
21	B	1	Total	Zn	0
			1	1	
21	I	1	Total	Zn	0
			1	1	
21	J	1	Total	Zn	0
			1	1	
21	L	1	Total	Zn	0
			1	1	



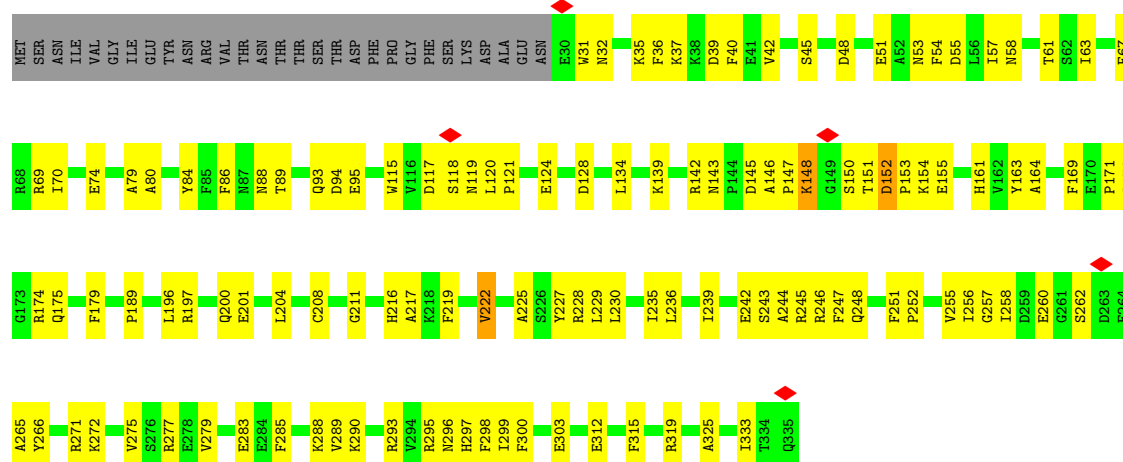
• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

Chain B: 53% 44%

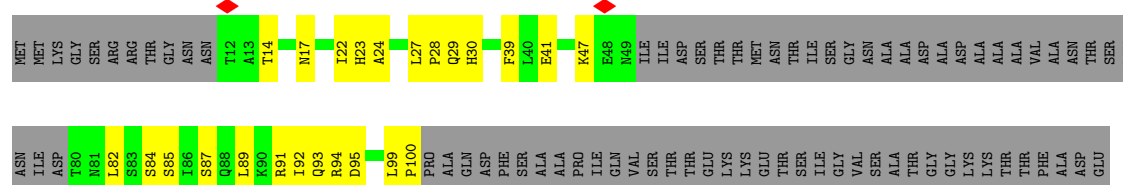




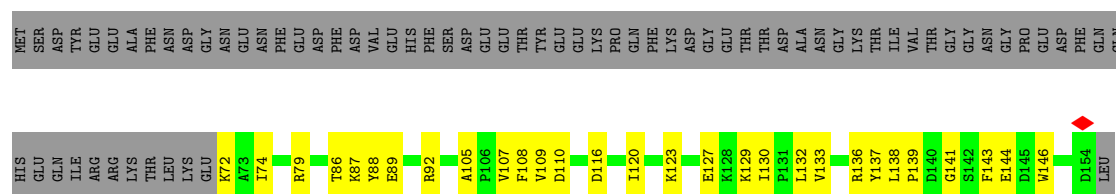
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1



• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

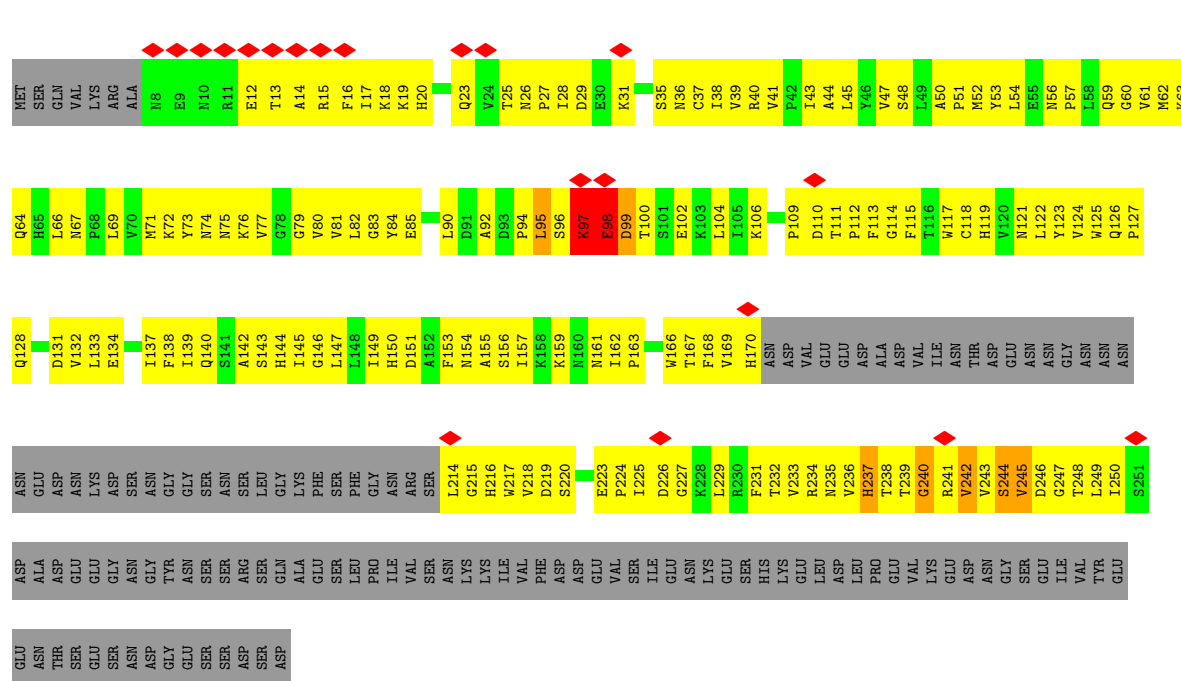


Chain F: 



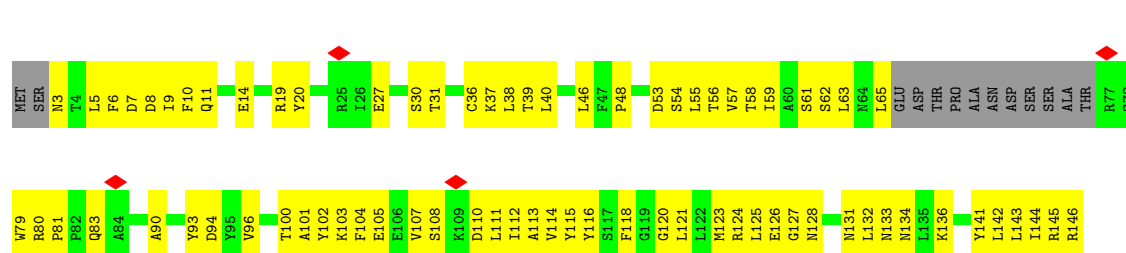
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain G: 

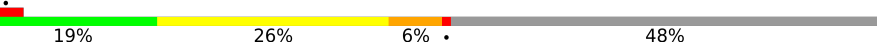


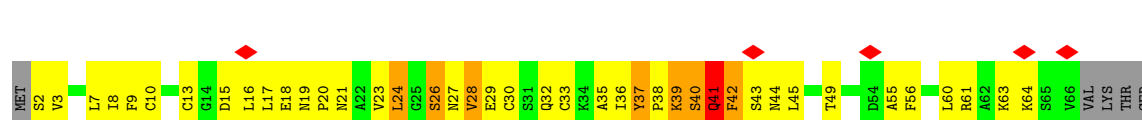
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain H: 



• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain I: 



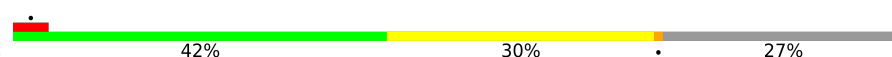
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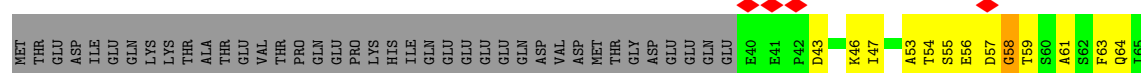
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain J: 



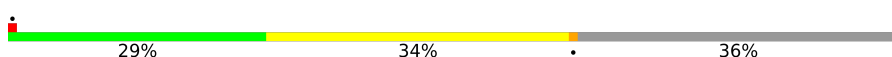
- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

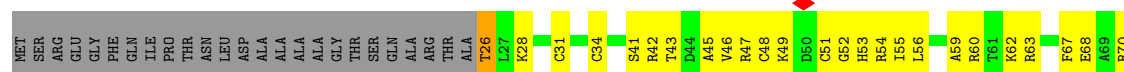
Chain K: 



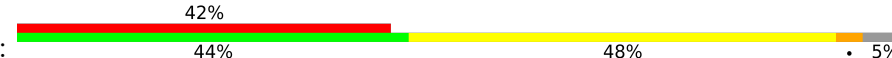


- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain L: 

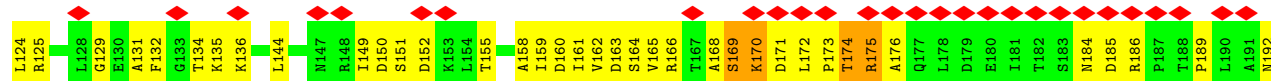


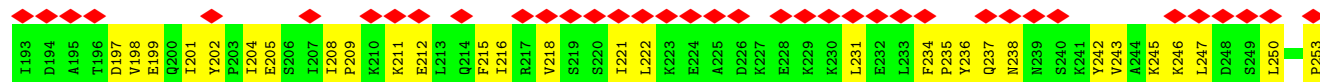
- Molecule 13: DNA-directed RNA polymerase I subunit RPA49

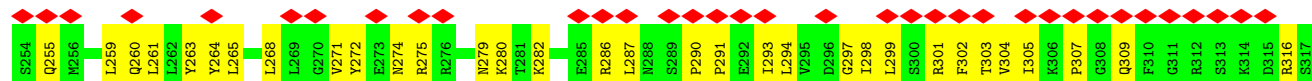
Chain M: 

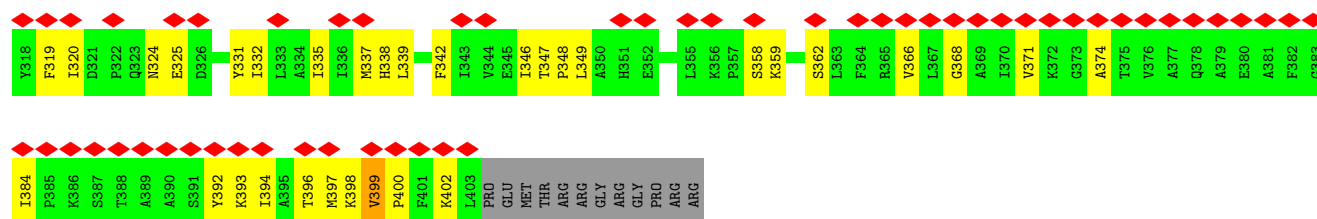




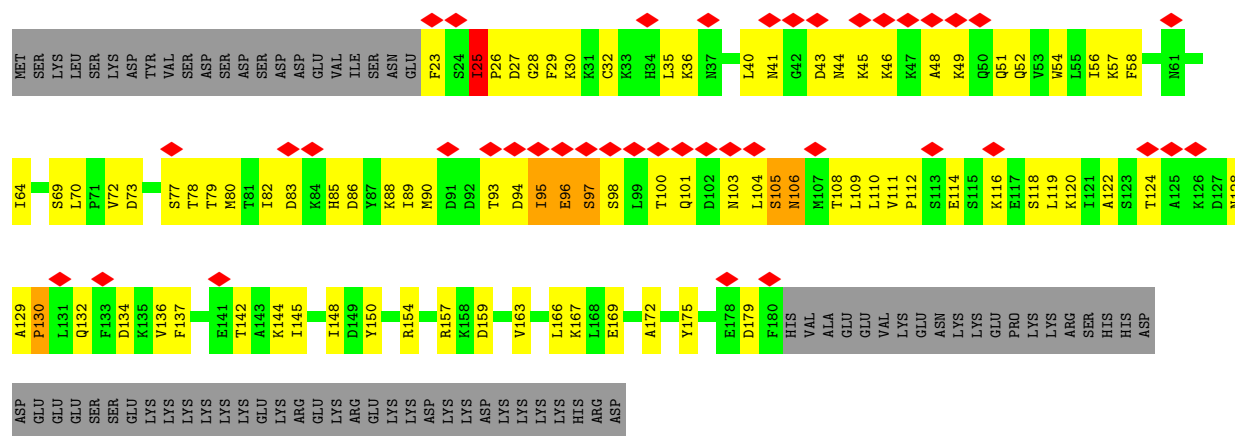




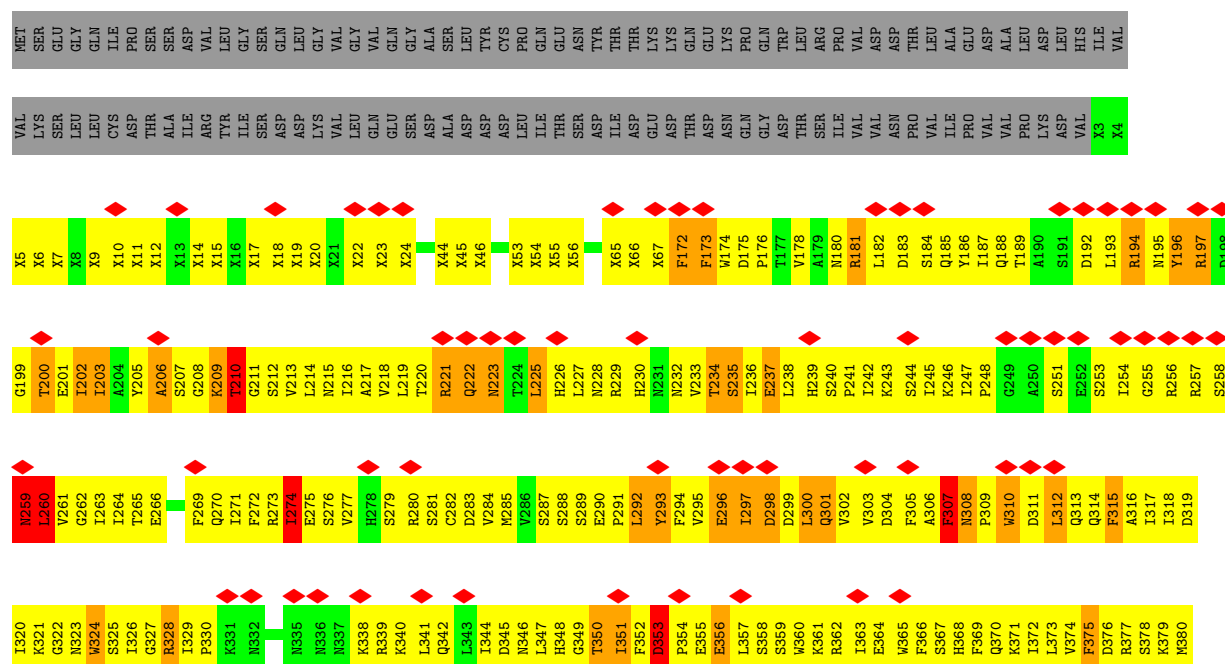
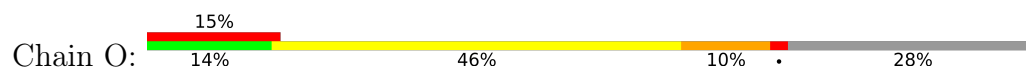


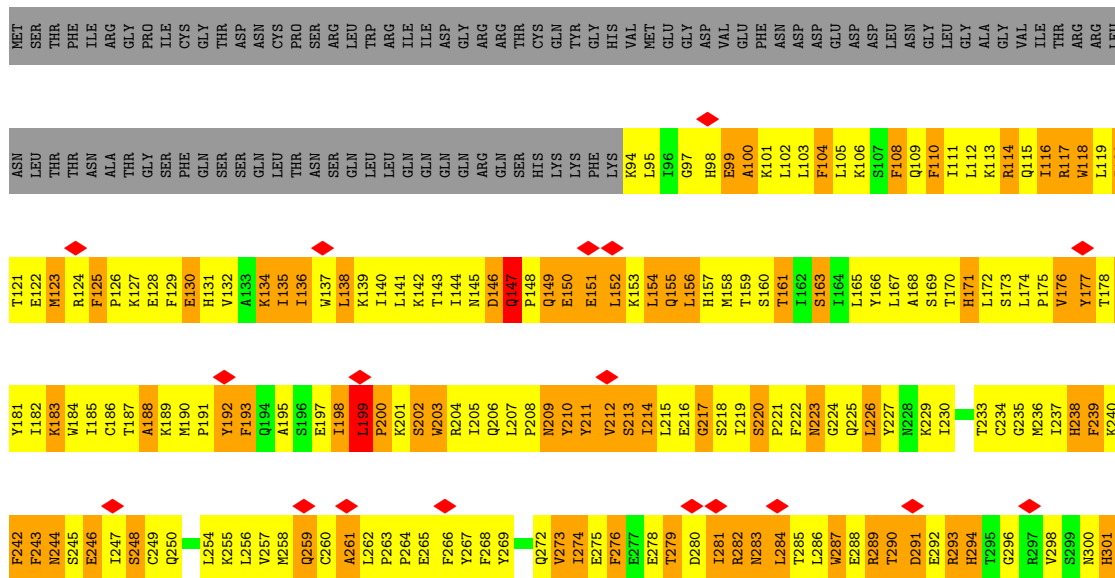


• Molecule 14: DNA-directed RNA polymerase I subunit RPA34



• Molecule 15: RNA polymerase I-specific transcription initiation factor RRN6

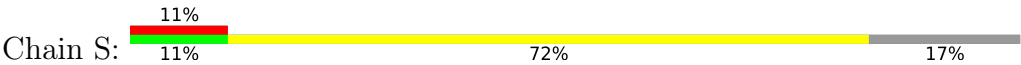




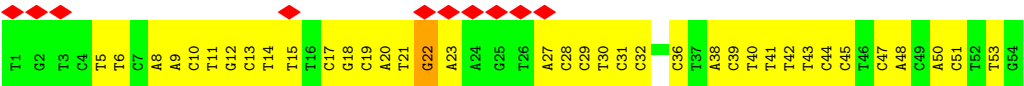




• Molecule 19: non-template strand DNA



• Molecule 20: template strand DNA



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	26913	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY; CTF amplitude correction was performed following 3D auto refinement in relion.	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	56.8	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	22500	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.189	Depositor
Minimum map value	-0.097	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.012	Depositor
Recommended contour level	0.04	Depositor
Map size ($\text{\AA}$)	249.59999, 249.59999, 249.59999	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.3, 1.3, 1.3	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.43	0/11752	0.76	7/15870 (0.0%)
2	B	0.51	1/9556 (0.0%)	0.81	7/12916 (0.1%)
3	C	0.42	0/2483	0.76	3/3366 (0.1%)
4	D	0.37	0/473	0.71	0/641
5	E	0.38	0/1795	0.81	0/2416
6	F	0.40	0/682	0.66	0/922
7	G	0.36	0/1630	0.80	5/2216 (0.2%)
8	H	0.37	0/1088	0.72	0/1474
9	I	0.39	0/485	1.44	9/657 (1.4%)
10	J	0.48	0/578	0.84	0/775
11	K	0.40	0/821	0.83	5/1108 (0.5%)
12	L	0.38	0/360	0.75	0/478
13	M	0.33	1/3184 (0.0%)	0.77	2/4296 (0.0%)
14	N	0.34	0/1279	0.98	7/1724 (0.4%)
15	O	0.68	8/4902 (0.2%)	1.46	95/6641 (1.4%)
16	P	0.68	11/3316 (0.3%)	1.76	135/4477 (3.0%)
17	Q	0.80	5/2990 (0.2%)	1.59	52/4030 (1.3%)
18	R	0.37	0/142	0.83	1/220 (0.5%)
19	S	0.52	0/1050	0.84	0/1621
20	T	0.49	0/1206	0.91	4/1855 (0.2%)
All	All	0.51	26/49772 (0.1%)	1.03	332/67703 (0.5%)

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	P	402	MET	CA-C	8.47	1.64	1.52
15	O	736	ILE	CA-C	8.16	1.63	1.52
2	B	78	PRO	N-CD	-8.04	1.36	1.47
15	O	297	ILE	CA-C	7.60	1.62	1.52
16	P	511	HIS	CA-C	7.48	1.63	1.52
16	P	385	PHE	CA-C	7.45	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
17	Q	294	VAL	CA-C	7.24	1.60	1.52
16	P	209	ASN	CA-C	-7.14	1.43	1.52
16	P	134	LYS	CA-C	7.10	1.62	1.52
17	Q	216	LEU	CA-C	6.81	1.61	1.52
15	O	669	PHE	CA-C	6.68	1.60	1.53
13	M	175	ARG	CA-C	6.62	1.61	1.52
15	O	660	LYS	CA-C	6.60	1.61	1.52
16	P	320	PHE	CA-C	6.43	1.61	1.52
16	P	155	GLN	CA-C	6.18	1.61	1.52
15	O	748	GLU	CA-C	6.02	1.60	1.52
17	Q	277	ILE	CA-C	5.90	1.60	1.52
15	O	706	GLU	CA-C	5.85	1.60	1.52
16	P	496	GLU	CA-C	5.76	1.60	1.52
15	O	428	GLU	CA-C	5.71	1.59	1.53
16	P	191	PRO	N-CD	5.71	1.55	1.47
17	Q	17	ARG	CA-C	5.66	1.60	1.52
16	P	418	PRO	N-CD	5.55	1.55	1.47
17	Q	301	SER	CA-C	5.51	1.60	1.52
15	O	310	TRP	CA-C	5.43	1.60	1.52
16	P	294	HIS	CA-C	5.23	1.60	1.52

All (332) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	I	39	LYS	N-CA-C	-21.72	87.60	111.28
15	O	705	HIS	N-CA-C	-17.52	92.30	113.15
17	Q	133	LYS	CA-C-N	16.65	140.66	119.84
17	Q	133	LYS	C-N-CA	16.65	140.66	119.84
16	P	125	PHE	CA-C-N	16.25	140.15	119.84
16	P	125	PHE	C-N-CA	16.25	140.15	119.84
17	Q	217	THR	N-CA-C	14.94	129.24	111.02
16	P	110	PHE	N-CA-C	14.93	127.05	111.07
16	P	134	LYS	N-CA-C	14.42	128.42	111.11
16	P	191	PRO	N-CA-C	-13.98	98.28	114.92
15	O	694	ILE	N-CA-C	13.94	128.17	108.23
16	P	193	PHE	N-CA-C	13.91	127.70	111.71
15	O	209	LYS	N-CA-C	-13.87	93.53	112.12
1	A	408	LYS	N-CA-C	-13.73	95.79	111.03
15	O	172	PHE	N-CA-CB	13.54	133.52	110.50
16	P	321	ASP	N-CA-C	-13.25	90.29	109.11
16	P	104	PHE	N-CA-C	-13.13	97.02	111.07
16	P	246	GLU	N-CA-C	12.86	128.92	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	356	VAL	N-CA-C	-12.56	98.71	111.77
15	O	222	GLN	N-CA-C	-12.02	96.68	111.11
15	O	657	SER	N-CA-C	11.56	129.75	107.44
15	O	620	ASP	N-CA-C	-11.51	98.76	111.07
17	Q	355	THR	CA-C-N	11.50	132.23	120.38
17	Q	355	THR	C-N-CA	11.50	132.23	120.38
15	O	655	SER	N-CA-C	-11.47	97.48	110.91
15	O	617	HIS	N-CA-C	-11.29	86.75	110.80
15	O	654	LEU	N-CA-C	11.26	130.83	113.72
16	P	248	SER	N-CA-C	-11.13	87.10	110.80
16	P	202	SER	N-CA-C	10.97	123.32	111.36
17	Q	358	PHE	N-CA-C	-10.72	99.60	111.07
16	P	365	ASP	N-CA-C	-10.66	99.66	111.28
15	O	315	PHE	N-CA-C	-10.53	99.69	112.54
16	P	506	LYS	N-CA-C	-10.50	99.52	110.97
16	P	116	ILE	N-CA-C	10.49	122.58	110.62
14	N	25	ILE	CA-C-N	10.48	132.94	119.84
14	N	25	ILE	C-N-CA	10.48	132.94	119.84
17	Q	242	ILE	CA-C-N	10.46	132.91	119.84
17	Q	242	ILE	C-N-CA	10.46	132.91	119.84
16	P	118	TRP	N-CA-C	-10.40	99.75	111.82
16	P	484	ALA	N-CA-C	-10.35	100.00	111.07
16	P	199	LEU	N-CA-C	-10.29	87.07	109.81
16	P	209	ASN	CB-CA-C	-10.22	90.09	110.42
17	Q	356	PRO	CA-C-N	-10.16	107.14	119.84
17	Q	356	PRO	C-N-CA	-10.16	107.14	119.84
15	O	747	LEU	N-CA-C	10.10	123.70	108.46
20	T	22	DG	C2'-C3'-O3'	9.95	126.43	111.50
16	P	290	THR	N-CA-CB	9.88	127.19	110.49
17	Q	255	VAL	N-CA-C	9.81	120.33	110.82
2	B	816	ASN	N-CA-C	9.77	131.62	110.80
15	O	383	ILE	N-CA-C	9.76	129.65	109.34
16	P	293	ARG	N-CA-C	9.74	124.42	112.54
15	O	737	VAL	N-CA-C	-9.70	102.43	111.45
17	Q	18	LYS	N-CA-C	-9.70	100.40	110.97
16	P	100	ALA	N-CA-C	-9.64	100.72	111.14
16	P	156	LEU	N-CA-CB	-9.52	96.05	110.04
16	P	509	CYS	N-CA-C	9.47	122.48	111.11
16	P	250	GLN	N-CA-C	-9.30	101.94	113.20
16	P	128	GLU	N-CA-C	9.25	130.50	110.80
16	P	136	ILE	N-CA-CB	9.18	121.29	110.55
16	P	138	LEU	N-CA-C	-9.18	101.23	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O	308	ASN	CA-C-N	9.07	131.18	119.84
15	O	308	ASN	C-N-CA	9.07	131.18	119.84
20	T	22	DG	C4'-C3'-O3'	-8.90	96.64	110.00
15	O	210	THR	N-CA-C	-8.89	94.03	108.52
15	O	694	ILE	CA-C-N	8.87	130.98	122.73
15	O	694	ILE	C-N-CA	8.87	130.98	122.73
16	P	211	TYR	N-CA-C	8.78	122.97	108.48
17	Q	18	LYS	N-CA-CB	8.77	122.71	109.91
16	P	244	ASN	N-CA-C	8.76	122.84	110.50
17	Q	364	VAL	N-CA-C	-8.71	101.85	110.30
15	O	301	GLN	N-CA-C	-8.69	92.28	110.80
17	Q	152	ILE	N-CA-C	-8.64	102.59	113.22
16	P	491	PHE	N-CA-C	8.62	123.47	109.85
2	B	341	SER	CA-C-N	8.53	130.50	119.84
2	B	341	SER	C-N-CA	8.53	130.50	119.84
16	P	375	LEU	N-CA-C	8.52	120.19	111.07
16	P	414	TYR	N-CA-C	-8.48	102.11	111.36
2	B	76	GLY	N-CA-C	-8.47	93.10	113.18
15	O	640	SER	N-CA-C	8.37	120.41	111.28
16	P	192	TYR	N-CA-C	8.35	125.06	111.37
16	P	403	THR	N-CA-C	8.35	128.58	110.80
15	O	206	ALA	N-CA-C	-8.34	100.14	110.65
9	I	40	SER	N-CA-CB	8.31	123.70	110.23
13	M	176	ALA	N-CA-C	8.31	124.00	112.45
16	P	493	ILE	N-CA-C	8.30	126.61	109.34
17	Q	294	VAL	CA-C-N	8.20	128.83	120.38
17	Q	294	VAL	C-N-CA	8.20	128.83	120.38
16	P	300	ASN	CA-C-N	-8.19	109.80	121.99
16	P	300	ASN	C-N-CA	-8.19	109.80	121.99
15	O	486	ALA	N-CA-C	-8.14	93.46	110.80
16	P	108	PHE	N-CA-C	-8.10	102.40	111.07
17	Q	257	ILE	N-CA-CB	8.09	123.25	110.54
14	N	106	ASN	N-CA-C	-8.08	102.98	113.17
17	Q	216	LEU	N-CA-C	7.97	127.77	110.80
15	O	616	SER	N-CA-C	-7.96	104.06	113.38
15	O	642	GLN	N-CA-C	-7.96	101.90	111.69
16	P	203	TRP	N-CA-C	-7.93	102.72	111.36
17	Q	302	ARG	N-CA-C	-7.92	93.93	110.80
16	P	504	ARG	N-CA-C	7.89	120.64	111.02
16	P	274	ILE	N-CA-C	-7.87	102.86	110.42
16	P	163	SER	N-CA-C	-7.86	102.80	111.36
16	P	217	GLY	N-CA-C	7.79	128.00	114.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	506	LYS	N-CA-CB	7.78	121.28	109.91
16	P	147	GLN	CA-C-N	7.78	129.57	119.84
16	P	147	GLN	C-N-CA	7.78	129.57	119.84
16	P	418	PRO	CB-CA-C	7.77	124.38	111.56
15	O	356	GLU	N-CA-C	7.71	122.04	109.85
16	P	135	ILE	CB-CA-C	-7.71	99.76	112.26
15	O	196	TYR	N-CA-C	7.69	127.18	110.80
16	P	98	HIS	N-CA-C	7.68	120.32	111.11
17	Q	16	ARG	N-CA-C	7.63	120.56	111.33
9	I	37	TYR	CA-C-N	-7.54	110.42	119.84
9	I	37	TYR	C-N-CA	-7.54	110.42	119.84
16	P	188	ALA	N-CA-C	-7.51	101.32	111.54
16	P	387	PRO	N-CA-C	-7.49	102.76	113.47
7	G	98	GLU	CA-C-N	-7.49	109.75	122.33
7	G	98	GLU	C-N-CA	-7.49	109.75	122.33
13	M	176	ALA	N-CA-CB	-7.49	99.11	110.26
15	O	642	GLN	N-CA-CB	7.47	121.33	110.20
11	K	58	GLY	N-CA-C	7.42	130.77	113.18
15	O	570	ASP	N-CA-C	7.42	122.61	112.90
15	O	656	HIS	N-CA-C	7.37	126.49	110.80
17	Q	145	SER	N-CA-CB	7.36	122.94	110.49
16	P	314	ILE	N-CA-C	7.30	118.03	110.36
15	O	578	PHE	N-CA-C	7.29	119.19	110.44
1	A	721	LYS	CA-C-N	7.29	128.95	119.84
1	A	721	LYS	C-N-CA	7.29	128.95	119.84
15	O	577	LEU	N-CA-C	7.23	121.00	111.75
16	P	212	VAL	N-CA-C	7.21	124.33	109.34
16	P	316	TRP	N-CA-CB	7.16	120.36	109.91
15	O	670	ALA	N-CA-C	-7.15	95.58	110.80
16	P	130	GLU	N-CA-C	7.13	118.70	111.07
1	A	407	GLN	N-CA-C	7.11	125.94	110.80
16	P	209	ASN	CA-C-N	-7.09	110.22	120.29
16	P	209	ASN	C-N-CA	-7.09	110.22	120.29
16	P	482	HIS	N-CA-C	7.09	118.66	111.07
16	P	511	HIS	CA-C-O	7.08	129.70	121.34
15	O	429	SER	N-CA-C	7.07	125.86	110.80
17	Q	343	GLN	N-CA-C	-7.05	103.30	112.68
15	O	620	ASP	N-CA-CB	7.05	120.23	110.01
16	P	156	LEU	N-CA-C	-7.05	100.77	110.35
16	P	100	ALA	N-CA-CB	7.03	120.26	110.07
17	Q	143	THR	CB-CA-C	-7.01	107.70	117.23
9	I	26	SER	CB-CA-C	-7.00	101.56	111.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	498	LEU	N-CA-CB	6.99	121.18	109.78
17	Q	292	SER	N-CA-C	-6.97	105.39	114.04
17	Q	325	GLU	N-CA-C	6.95	125.16	109.81
16	P	146	ASP	N-CA-C	6.94	118.84	111.28
17	Q	439	GLU	N-CA-C	-6.94	103.65	111.07
16	P	294	HIS	CB-CA-C	-6.92	96.95	110.11
17	Q	212	HIS	N-CA-C	6.92	119.47	111.02
9	I	26	SER	N-CA-C	-6.92	100.51	111.02
15	O	427	SER	N-CA-C	-6.87	99.99	110.30
16	P	135	ILE	N-CA-C	6.85	119.65	111.09
15	O	737	VAL	N-CA-CB	6.84	121.25	110.31
16	P	221	PRO	N-CA-C	6.83	122.39	111.26
15	O	660	LYS	CA-C-O	6.81	128.31	120.00
15	O	298	ASP	N-CA-CB	-6.81	98.98	110.49
16	P	489	VAL	N-CA-C	6.80	117.56	110.62
17	Q	264	SER	N-CA-C	6.79	120.01	107.99
15	O	728	GLN	N-CA-C	6.79	118.46	108.14
17	Q	143	THR	O-C-N	6.75	129.84	121.33
16	P	202	SER	N-CA-CB	-6.72	100.22	110.16
15	O	235	SER	N-CA-C	-6.71	98.03	109.24
20	T	22	DG	P-O3'-C3'	6.69	130.23	120.20
16	P	200	PRO	CA-C-N	-6.68	108.78	121.54
16	P	200	PRO	C-N-CA	-6.68	108.78	121.54
15	O	705	HIS	N-CA-CB	6.66	120.72	110.46
15	O	297	ILE	CA-C-O	6.66	129.10	120.78
15	O	296	GLU	N-CA-C	6.61	120.80	112.87
17	Q	150	GLN	CA-C-N	6.60	128.09	119.84
17	Q	150	GLN	C-N-CA	6.60	128.09	119.84
16	P	400	MET	N-CA-C	-6.59	99.28	109.76
15	O	208	GLY	CA-C-N	6.57	132.28	122.17
15	O	208	GLY	C-N-CA	6.57	132.28	122.17
16	P	104	PHE	N-CA-CB	6.56	119.52	110.01
16	P	288	GLU	N-CA-C	6.53	120.47	110.36
15	O	356	GLU	N-CA-CB	-6.52	100.64	111.20
16	P	327	PRO	N-CA-C	6.52	121.44	111.15
16	P	384	GLN	N-CA-C	6.49	122.00	113.30
15	O	439	LYS	N-CA-C	6.49	118.62	108.96
16	P	218	SER	N-CA-C	6.46	118.33	111.28
16	P	316	TRP	N-CA-C	-6.46	103.92	110.97
15	O	260	LEU	N-CA-C	6.44	118.64	110.33
17	Q	424	PHE	CA-C-N	6.43	129.77	120.38
17	Q	424	PHE	C-N-CA	6.43	129.77	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	171	HIS	N-CA-C	-6.43	103.18	111.02
16	P	473	LYS	N-CA-C	-6.43	104.19	111.07
15	O	730	GLU	N-CA-C	6.43	120.73	113.02
16	P	121	THR	N-CA-C	-6.42	104.36	111.36
15	O	583	GLU	N-CA-CB	-6.41	100.99	110.10
15	O	353	ASP	CA-C-N	6.41	127.85	119.84
15	O	353	ASP	C-N-CA	6.41	127.85	119.84
16	P	402	MET	CA-C-O	6.40	129.66	120.51
7	G	244	SER	N-CA-C	6.39	116.68	108.24
11	K	57	ASP	N-CA-C	-6.39	104.01	110.97
15	O	429	SER	N-CA-CB	-6.38	99.70	110.49
15	O	588	SER	N-CA-C	6.34	118.19	111.28
16	P	238	HIS	N-CA-C	-6.33	103.19	111.74
16	P	403	THR	N-CA-CB	-6.30	99.84	110.49
15	O	257	ARG	CB-CA-C	-6.28	107.55	116.34
15	O	391	THR	N-CA-CB	-6.27	100.46	111.49
16	P	209	ASN	N-CA-C	6.27	124.15	110.80
17	Q	362	ALA	N-CA-C	6.23	124.07	110.80
15	O	746	ARG	N-CA-C	6.23	119.64	109.24
15	O	659	LEU	N-CA-C	-6.22	97.54	110.80
15	O	225	LEU	N-CA-C	6.22	117.95	109.11
11	K	58	GLY	CA-C-N	-6.21	110.60	120.17
11	K	58	GLY	C-N-CA	-6.21	110.60	120.17
15	O	583	GLU	CB-CA-C	-6.19	101.54	111.39
15	O	736	ILE	CB-CA-C	-6.18	101.15	111.29
17	Q	360	GLU	N-CA-C	6.17	121.74	113.72
16	P	484	ALA	N-CA-CB	6.17	118.95	110.01
16	P	239	PHE	N-CA-C	6.16	117.99	111.28
14	N	129	ALA	N-CA-C	6.16	119.49	108.47
16	P	331	ILE	N-CA-C	6.16	116.90	110.62
15	O	259	ASN	N-CA-C	6.15	123.89	110.80
17	Q	302	ARG	N-CA-CB	6.13	120.85	110.49
16	P	138	LEU	N-CA-CB	6.12	118.95	110.07
15	O	328	ARG	N-CA-C	6.12	119.46	109.06
15	O	208	GLY	O-C-N	6.10	128.77	122.79
17	Q	284	PHE	N-CA-C	6.10	117.93	109.15
16	P	226	LEU	CA-C-N	-6.08	110.51	121.14
16	P	226	LEU	C-N-CA	-6.08	110.51	121.14
16	P	289	ARG	N-CA-C	6.08	123.74	110.80
16	P	161	THR	N-CA-C	6.07	117.57	111.07
16	P	483	ILE	CB-CA-C	-6.04	103.89	112.22
15	O	173	PHE	N-CA-CB	-5.99	102.29	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	117	ARG	N-CA-C	5.97	118.74	111.82
16	P	245	SER	N-CA-C	5.95	119.56	111.17
15	O	375	PHE	N-CA-C	5.95	118.08	108.32
16	P	294	HIS	CA-C-O	5.92	126.87	119.12
16	P	418	PRO	N-CA-C	-5.91	100.29	112.47
15	O	575	ALA	N-CA-C	5.91	123.39	110.80
16	P	261	ALA	CB-CA-C	-5.86	98.75	110.42
16	P	99	GLU	N-CA-C	5.83	119.66	112.54
7	G	240	GLY	N-CA-C	5.81	119.06	110.63
16	P	383	LYS	N-CA-C	5.80	120.40	112.04
16	P	384	GLN	CB-CA-C	-5.78	100.40	110.17
16	P	498	LEU	N-CA-C	-5.77	101.84	111.37
17	Q	389	ASN	N-CA-C	-5.76	105.27	112.93
16	P	118	TRP	N-CA-CB	5.72	119.15	110.28
16	P	243	PHE	N-CA-C	5.72	118.80	109.59
16	P	511	HIS	CB-CA-C	-5.71	101.69	111.46
17	Q	424	PHE	N-CA-C	5.71	119.87	113.01
17	Q	214	VAL	N-CA-C	-5.71	103.95	111.09
15	O	226	HIS	N-CA-C	5.71	119.55	112.47
1	A	1113	HIS	N-CA-C	5.70	118.23	111.33
16	P	471	ALA	N-CA-C	5.69	117.48	111.28
15	O	676	SER	N-CA-C	5.68	118.40	111.82
3	C	31	TRP	N-CA-C	5.66	118.68	110.42
16	P	211	TYR	N-CA-CB	-5.65	100.12	111.15
16	P	114	ARG	N-CA-C	-5.65	105.21	111.36
15	O	682	PHE	CA-CB-CG	5.63	119.43	113.80
17	Q	133	LYS	N-CA-C	5.63	118.31	110.20
15	O	181	ARG	N-CA-C	5.62	117.52	107.80
16	P	242	PHE	N-CA-C	5.61	117.07	111.07
17	Q	304	HIS	N-CA-C	5.57	122.67	110.80
1	A	394	LEU	CA-CB-CG	-5.54	96.90	116.30
11	K	56	GLU	N-CA-C	-5.54	106.65	113.41
15	O	748	GLU	N-CA-C	5.54	122.60	110.80
16	P	276	PHE	N-CA-C	5.54	122.61	110.80
15	O	618	ASP	N-CA-C	5.54	122.59	110.80
16	P	401	GLU	CB-CA-C	-5.53	102.02	111.26
17	Q	294	VAL	N-CA-C	5.53	120.83	108.88
14	N	105	SER	N-CA-C	5.53	118.45	109.06
16	P	213	SER	N-CA-C	-5.52	105.34	111.36
15	O	274	ILE	N-CA-C	-5.51	97.87	109.34
16	P	188	ALA	CA-C-N	-5.50	112.91	120.28
16	P	188	ALA	C-N-CA	-5.50	112.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	209	ASN	CB-CG-ND2	-5.50	108.15	116.40
15	O	660	LYS	N-CA-C	5.49	120.08	112.45
14	N	25	ILE	N-CA-C	5.49	120.73	108.88
2	B	1184	TYR	CA-CB-CG	-5.49	104.03	113.90
20	T	22	DG	O3'-P-O5'	5.48	112.22	104.00
15	O	745	ALA	O-C-N	-5.47	116.71	123.44
16	P	134	LYS	CA-C-O	5.47	126.75	120.90
16	P	373	GLU	N-CA-C	-5.43	99.23	110.80
17	Q	219	LEU	N-CA-CB	5.41	117.85	110.01
14	N	130	PRO	N-CA-C	-5.40	102.64	110.80
15	O	575	ALA	N-CA-CB	-5.36	101.43	110.49
15	O	649	ILE	N-CA-C	-5.35	98.22	109.34
16	P	177	TYR	CB-CA-C	-5.33	100.77	109.56
16	P	495	LYS	CA-C-N	5.32	131.70	121.54
16	P	495	LYS	C-N-CA	5.32	131.70	121.54
17	Q	361	ASP	N-CA-C	5.31	122.12	110.80
15	O	635	ASN	OD1-CG-ND2	-5.30	117.30	122.60
15	O	297	ILE	CB-CA-C	-5.28	102.62	111.29
15	O	588	SER	CA-C-N	5.28	127.32	120.56
15	O	588	SER	C-N-CA	5.28	127.32	120.56
17	Q	257	ILE	N-CA-C	-5.27	103.89	111.17
17	Q	25	ASN	OD1-CG-ND2	-5.27	117.33	122.60
15	O	712	ASP	N-CA-C	-5.27	105.23	110.97
2	B	94	LYS	N-CA-CB	-5.25	102.30	110.29
1	A	105	CYS	N-CA-C	-5.25	106.93	113.55
16	P	320	PHE	CA-C-O	5.25	128.01	120.51
15	O	638	LEU	N-CA-C	-5.23	105.27	110.97
3	C	152	ASP	CA-C-N	-5.22	113.31	119.84
3	C	152	ASP	C-N-CA	-5.22	113.31	119.84
15	O	324	TRP	CB-CA-C	-5.21	109.60	115.79
17	Q	397	ARG	CB-CA-C	-5.20	110.56	116.54
17	Q	426	VAL	N-CA-C	5.20	113.59	107.77
16	P	120	ILE	N-CA-C	5.19	115.92	110.62
9	I	41	GLN	N-CA-C	5.19	121.85	110.80
2	B	78	PRO	CA-N-CD	5.18	119.26	112.00
16	P	220	SER	CA-C-N	5.18	125.48	119.93
16	P	220	SER	C-N-CA	5.18	125.48	119.93
15	O	383	ILE	N-CA-CB	-5.18	102.69	111.23
16	P	245	SER	N-CA-CB	-5.16	103.88	111.71
15	O	629	ARG	N-CA-C	5.15	116.97	111.36
16	P	238	HIS	CA-C-N	5.14	127.16	120.28
16	P	238	HIS	C-N-CA	5.14	127.16	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O	694	ILE	CB-CA-C	-5.11	101.53	110.38
15	O	657	SER	N-CA-CB	-5.11	102.11	110.95
17	Q	17	ARG	N-CA-C	5.11	119.36	113.18
15	O	595	GLN	N-CA-C	5.09	116.52	111.07
16	P	496	GLU	N-CA-C	5.06	121.58	110.80
15	O	693	PHE	N-CA-C	5.05	121.56	110.80
16	P	210	TYR	N-CA-C	5.05	116.86	111.36
15	O	412	ASN	N-CA-C	-5.04	107.10	113.20
15	O	221	ARG	N-CA-C	-5.04	97.80	107.57
18	R	5	G	N9-C1'-C2'	5.04	119.55	112.00
16	P	505	ILE	CB-CA-C	-5.03	100.34	111.77
16	P	333	SER	N-CA-C	-5.03	105.80	111.28
16	P	385	PHE	CA-C-O	5.03	130.39	121.94
7	G	97	LYS	N-CA-C	-5.02	100.10	110.80
17	Q	141	TRP	N-CA-C	-5.02	101.12	109.46
16	P	191	PRO	CB-CA-C	5.01	115.62	110.00
16	P	510	LEU	CB-CA-C	-5.01	100.44	110.42
9	I	28	VAL	CA-C-N	-5.01	113.50	122.07
9	I	28	VAL	C-N-CA	-5.01	113.50	122.07
15	O	307	PHE	N-CA-C	-5.01	106.76	112.92

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11542	0	11624	872	0
2	B	9351	0	9242	639	0
3	C	2431	0	2418	137	0
4	D	467	0	468	26	0
5	E	1759	0	1788	100	0
6	F	670	0	690	24	0
7	G	1592	0	1599	186	0
8	H	1070	0	1045	101	0
9	I	479	0	479	158	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	J	569	0	585	43	0
11	K	810	0	801	41	0
12	L	358	0	381	30	0
13	M	3131	0	3241	271	0
14	N	1254	0	1266	130	0
15	O	5063	0	4795	2261	0
16	P	3238	0	3263	1645	0
17	Q	2923	0	2964	1111	0
18	R	127	0	67	8	0
19	S	935	0	513	135	0
20	T	1082	0	615	121	0
21	A	2	0	0	1	0
21	B	1	0	0	0	0
21	I	1	0	0	0	0
21	J	1	0	0	0	0
21	L	1	0	0	0	0
All	All	48857	0	47844	6828	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 71.

All (6828) 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)
15:O:351:ILE:HG22	17:Q:157:MET:SD	1.17	1.70
16:P:101:LYS:CD	16:P:152:LEU:HD12	1.23	1.67
15:O:436:ILE:HG21	17:Q:141:TRP:CE3	1.28	1.66
2:B:1104:CYS:HB3	2:B:1107:CYS:SG	1.34	1.65
1:A:781:LEU:HB3	1:A:786:TYR:CE1	1.16	1.65
16:P:284:LEU:HD13	16:P:302:ALA:CB	1.27	1.65
15:O:702:LEU:HG	16:P:125:PHE:CZ	1.14	1.64
17:Q:27:ILE:CD1	17:Q:169:PRO:HG2	1.25	1.64
15:O:214:LEU:CB	15:O:236:ILE:HG21	1.17	1.64
16:P:263:PRO:HB2	16:P:266:PHE:CD2	1.31	1.63
15:O:214:LEU:HB2	15:O:236:ILE:CG2	1.20	1.62
16:P:257:VAL:CG1	16:P:262:LEU:HD12	1.27	1.62
15:O:722:TRP:CE3	16:P:264:PRO:HG3	1.17	1.62
16:P:104:PHE:HB2	16:P:211:TYR:CD1	1.29	1.61
15:O:436:ILE:HG21	17:Q:141:TRP:CZ3	1.24	1.61
16:P:366:TYR:CE1	17:Q:215:THR:HA	1.34	1.61
15:O:669:PHE:CE1	15:O:738:LYS:HE2	1.28	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:722:TRP:CZ3	16:P:264:PRO:HD3	1.11	1.60
17:Q:356:PRO:HG2	17:Q:357:PRO:CD	1.28	1.60
16:P:118:TRP:HH2	16:P:189:LYS:CD	1.12	1.60
15:O:702:LEU:HD23	16:P:123:MET:SD	1.41	1.59
15:O:421:ILE:HD11	17:Q:138:PHE:CD2	1.34	1.59
15:O:472:ARG:CZ	17:Q:200:THR:CG2	1.75	1.59
15:O:353:ASP:CB	17:Q:28:SER:HA	1.21	1.58
16:P:118:TRP:CH2	16:P:189:LYS:HD3	1.34	1.58
17:Q:356:PRO:CG	17:Q:357:PRO:HD3	1.21	1.58
9:I:42:PHE:CZ	9:I:44:ASN:HA	1.36	1.58
17:Q:381:ARG:HA	17:Q:384:VAL:CG2	1.25	1.58
15:O:771:ILE:CG2	16:P:109:GLN:HE22	1.17	1.57
17:Q:294:VAL:CG2	17:Q:295:PRO:HD3	1.35	1.57
15:O:722:TRP:CH2	16:P:262:LEU:HG	1.06	1.57
17:Q:247:ILE:CG2	17:Q:278:TYR:HE2	1.13	1.56
16:P:143:THR:CG2	16:P:236:MET:HE1	1.13	1.56
15:O:307:PHE:CD1	15:O:315:PHE:HE2	1.18	1.56
5:E:127:ILE:HD11	5:E:132:ILE:CG1	1.34	1.56
16:P:208:PRO:HB2	16:P:213:SER:CB	1.34	1.56
16:P:247:ILE:CD1	16:P:286:LEU:HA	1.31	1.56
15:O:433:VAL:HB	17:Q:144:VAL:CG1	1.33	1.55
15:O:641:TRP:CD1	15:O:653:SER:HB3	1.37	1.55
17:Q:355:THR:C	17:Q:359:MET:HG3	1.18	1.55
16:P:284:LEU:HD13	16:P:302:ALA:CA	1.34	1.55
17:Q:354:LEU:CD1	17:Q:359:MET:HA	1.33	1.54
1:A:921:PRO:HG3	8:H:19:ARG:CG	1.17	1.54
15:O:722:TRP:CZ3	16:P:264:PRO:CD	1.83	1.54
15:O:314:GLN:CG	15:O:329:ILE:N	1.69	1.54
15:O:715:TYR:CE1	15:O:734:LYS:HE2	1.42	1.54
17:Q:354:LEU:HG	17:Q:359:MET:CA	1.26	1.54
15:O:205:TYR:CB	15:O:215:ASN:HB2	1.35	1.54
15:O:314:GLN:HG3	15:O:328:ARG:C	1.20	1.54
17:Q:245:VAL:CG1	17:Q:250:LEU:CD1	1.78	1.54
1:A:912:VAL:HB	1:A:913:PRO:CD	1.35	1.53
15:O:421:ILE:CD1	17:Q:138:PHE:CD2	1.89	1.53
15:O:658:LYS:C	15:O:659:LEU:HD13	1.22	1.53
1:A:781:LEU:CB	1:A:786:TYR:HE1	1.22	1.53
17:Q:245:VAL:HG11	17:Q:250:LEU:CD1	1.30	1.53
15:O:421:ILE:HD11	17:Q:138:PHE:CE2	1.38	1.52
17:Q:283:ARG:HA	17:Q:302:ARG:CB	1.08	1.52
15:O:14:UNK:CB	15:O:438:TRP:HB2	1.37	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:194:ARG:CA	15:O:197:ARG:NH2	1.70	1.52
1:A:530:TRP:HB3	1:A:531:PRO:CD	1.33	1.52
2:B:341:SER:HB3	2:B:342:PRO:CD	1.11	1.51
15:O:298:ASP:CG	17:Q:158:THR:HA	1.31	1.51
2:B:155:VAL:HG21	17:Q:359:MET:SD	1.49	1.51
15:O:205:TYR:HB2	15:O:215:ASN:CB	1.36	1.51
14:N:25:ILE:HB	14:N:26:PRO:CD	1.19	1.50
3:C:151:THR:HG21	3:C:155:GLU:CD	1.26	1.50
9:I:27:ASN:HB2	9:I:36:ILE:CA	1.40	1.50
17:Q:354:LEU:CG	17:Q:359:MET:HA	1.37	1.50
15:O:771:ILE:CG2	16:P:109:GLN:NE2	1.73	1.49
17:Q:245:VAL:CG1	17:Q:250:LEU:CG	1.88	1.49
15:O:307:PHE:CD1	15:O:315:PHE:CE2	1.96	1.49
15:O:722:TRP:CH2	16:P:262:LEU:CG	1.94	1.49
16:P:284:LEU:CD1	16:P:302:ALA:HA	1.41	1.49
15:O:655:SER:CB	16:P:244:ASN:HB3	1.38	1.49
17:Q:247:ILE:CD1	17:Q:248:LYS:H	1.21	1.48
17:Q:277:ILE:HG13	17:Q:278:TYR:CD1	1.44	1.48
15:O:722:TRP:CE3	16:P:264:PRO:CG	1.97	1.48
16:P:280:ASP:C	16:P:281:ILE:HD13	1.35	1.47
17:Q:354:LEU:CG	17:Q:359:MET:CA	1.90	1.47
15:O:583:GLU:CD	15:O:584:ARG:HG2	1.37	1.47
15:O:656:HIS:CB	15:O:747:LEU:C	1.83	1.47
16:P:263:PRO:CB	16:P:266:PHE:CD2	1.97	1.47
15:O:581:ALA:HB1	15:O:585:GLU:CB	1.45	1.46
15:O:188:GLN:HB2	15:O:199:GLY:CA	1.43	1.46
16:P:247:ILE:CG2	16:P:302:ALA:HB3	1.44	1.46
15:O:768:TYR:CE2	16:P:145:ASN:OD1	1.69	1.46
1:A:781:LEU:CB	1:A:786:TYR:CE1	1.96	1.46
17:Q:355:THR:C	17:Q:359:MET:CG	1.83	1.45
15:O:702:LEU:CD2	16:P:123:MET:SD	2.01	1.45
15:O:586:LYS:NZ	16:P:322:ARG:HH22	1.11	1.45
15:O:656:HIS:HB2	15:O:747:LEU:C	1.07	1.45
16:P:354:LYS:HG2	16:P:362:THR:CG2	1.46	1.45
15:O:715:TYR:CE1	15:O:734:LYS:CE	1.98	1.44
16:P:104:PHE:CZ	16:P:215:LEU:HD21	1.49	1.44
17:Q:277:ILE:CG1	17:Q:278:TYR:CE1	2.01	1.44
15:O:472:ARG:CZ	17:Q:200:THR:HG23	1.01	1.44
16:P:101:LYS:NZ	16:P:152:LEU:CD1	1.80	1.44
14:N:25:ILE:CB	14:N:26:PRO:HD2	1.38	1.43
17:Q:27:ILE:CD1	17:Q:169:PRO:CG	1.97	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:247:ILE:HD12	16:P:286:LEU:CA	1.46	1.43
17:Q:283:ARG:CA	17:Q:302:ARG:HB2	1.48	1.43
9:I:27:ASN:HA	9:I:37:TYR:N	1.34	1.43
15:O:353:ASP:HB2	17:Q:28:SER:CA	0.95	1.43
16:P:104:PHE:CB	16:P:211:TYR:CD1	2.02	1.43
15:O:260:LEU:HD13	15:O:261:VAL:N	1.25	1.42
15:O:314:GLN:CG	15:O:328:ARG:HA	1.48	1.42
15:O:771:ILE:HG21	16:P:109:GLN:NE2	1.20	1.42
15:O:715:TYR:CZ	15:O:734:LYS:CE	2.01	1.42
1:A:721:LYS:HB3	1:A:722:PRO:CD	1.16	1.42
1:A:668:GLY:HA3	1:A:787:GLY:CA	1.47	1.42
15:O:472:ARG:NH2	17:Q:200:THR:HG23	1.22	1.42
15:O:423:ILE:HG21	17:Q:141:TRP:CH2	1.50	1.41
16:P:118:TRP:CH2	16:P:189:LYS:CG	2.01	1.41
17:Q:245:VAL:CG1	17:Q:250:LEU:HD11	1.38	1.41
16:P:104:PHE:CD1	16:P:211:TYR:HB2	1.52	1.41
16:P:139:LYS:NZ	16:P:242:PHE:CD2	1.82	1.41
1:A:592:GLN:HB3	1:A:593:PRO:CD	1.48	1.41
16:P:247:ILE:HG21	16:P:302:ALA:CB	1.50	1.40
17:Q:354:LEU:HG	17:Q:359:MET:N	1.16	1.40
16:P:104:PHE:HZ	16:P:155:GLN:NE2	1.20	1.40
16:P:235:GLY:HA2	16:P:289:ARG:CB	0.93	1.40
15:O:653:SER:CB	15:O:748:GLU:O	1.68	1.40
15:O:768:TYR:CD2	16:P:145:ASN:CG	2.00	1.39
16:P:354:LYS:CG	16:P:362:THR:HG21	1.52	1.39
1:A:912:VAL:CB	1:A:913:PRO:HD3	1.51	1.39
15:O:351:ILE:CG2	17:Q:157:MET:SD	2.08	1.39
17:Q:381:ARG:CA	17:Q:384:VAL:HG21	1.48	1.39
1:A:668:GLY:HA3	1:A:787:GLY:C	1.47	1.39
9:I:28:VAL:HG23	9:I:38:PRO:CD	1.51	1.39
15:O:358:SER:OG	17:Q:194:GLY:CA	1.71	1.39
15:O:581:ALA:CB	15:O:585:GLU:CB	1.99	1.39
15:O:583:GLU:CG	15:O:584:ARG:H	1.27	1.39
15:O:722:TRP:HZ3	16:P:264:PRO:CD	1.21	1.39
15:O:768:TYR:CD2	16:P:145:ASN:OD1	1.75	1.39
17:Q:247:ILE:CG2	17:Q:278:TYR:CE2	2.03	1.39
17:Q:285:VAL:HG23	17:Q:302:ARG:CZ	1.53	1.39
17:Q:355:THR:CA	17:Q:359:MET:CG	2.01	1.39
15:O:210:THR:O	15:O:212:SER:N	1.56	1.38
15:O:436:ILE:CG2	17:Q:141:TRP:CZ3	2.02	1.38
15:O:641:TRP:NE1	15:O:653:SER:CB	1.84	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:118:TRP:CH2	16:P:189:LYS:CD	1.92	1.38
17:Q:27:ILE:HD13	17:Q:169:PRO:CG	1.52	1.38
15:O:24:UNK:HA	17:Q:314:TRP:CH2	1.59	1.38
2:B:814:ASN:O	2:B:816:ASN:N	1.58	1.37
16:P:341:ARG:NH1	16:P:445:ARG:HH21	0.95	1.37
17:Q:247:ILE:HG13	17:Q:298:GLN:CG	1.08	1.37
16:P:143:THR:HG21	16:P:236:MET:CE	0.91	1.37
16:P:294:HIS:HB2	20:T:48:DA:N6	1.07	1.37
17:Q:245:VAL:HG11	17:Q:250:LEU:CG	1.50	1.37
1:A:668:GLY:CA	1:A:787:GLY:HA2	1.55	1.37
15:O:23:UNK:O	17:Q:314:TRP:CZ3	1.78	1.37
15:O:309:PRO:HG2	15:O:365:TRP:NE1	1.38	1.37
16:P:151:GLU:OE2	16:P:154:LEU:CD1	1.71	1.37
17:Q:381:ARG:CA	17:Q:384:VAL:CG2	1.98	1.37
17:Q:355:THR:CB	17:Q:356:PRO:HD3	1.51	1.36
15:O:18:UNK:CB	17:Q:253:ILE:HD13	1.54	1.36
15:O:702:LEU:CG	16:P:125:PHE:CZ	2.07	1.36
2:B:341:SER:CB	2:B:342:PRO:HD2	1.54	1.36
16:P:154:LEU:O	16:P:156:LEU:CD1	1.72	1.36
1:A:921:PRO:CG	8:H:19:ARG:CG	2.02	1.36
15:O:768:TYR:CZ	16:P:145:ASN:OD1	1.76	1.36
17:Q:27:ILE:HD13	17:Q:169:PRO:CB	1.54	1.36
15:O:586:LYS:NZ	16:P:322:ARG:NH2	1.69	1.35
15:O:722:TRP:CZ3	16:P:262:LEU:O	1.79	1.35
16:P:210:TYR:CB	20:T:43:DT:H4'	1.54	1.35
16:P:223:ASN:ND2	16:P:224:GLY:H	1.24	1.35
16:P:208:PRO:CB	16:P:213:SER:HB3	1.53	1.35
16:P:494:SER:OG	16:P:497:GLN:CB	1.74	1.35
15:O:298:ASP:OD2	17:Q:158:THR:CA	1.73	1.35
15:O:351:ILE:HG22	17:Q:157:MET:CE	1.36	1.35
16:P:239:PHE:CE1	16:P:246:GLU:HG2	1.61	1.35
15:O:656:HIS:HB2	15:O:747:LEU:CA	1.54	1.34
17:Q:355:THR:CA	17:Q:359:MET:HG2	1.57	1.34
15:O:347:LEU:CB	17:Q:152:ILE:HA	1.54	1.34
15:O:431:ASP:CB	15:O:432:PRO:HD3	1.49	1.34
16:P:284:LEU:CG	16:P:305:ARG:HH11	1.38	1.34
16:P:354:LYS:NZ	16:P:362:THR:HG22	1.41	1.34
16:P:469:PRO:HB2	16:P:470:PRO:CD	1.52	1.34
17:Q:246:GLN:O	17:Q:247:ILE:HD13	1.23	1.34
3:C:151:THR:CG2	3:C:155:GLU:OE1	1.74	1.34
15:O:422:ILE:O	15:O:439:LYS:HB2	1.20	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:223:ASN:CG	16:P:224:GLY:H	1.26	1.34
16:P:123:MET:HB3	16:P:125:PHE:CE2	1.61	1.34
16:P:344:THR:HG22	16:P:436:LEU:O	1.22	1.34
17:Q:285:VAL:CG2	17:Q:302:ARG:CZ	2.07	1.33
17:Q:354:LEU:CG	17:Q:359:MET:N	1.84	1.33
15:O:237:GLU:OE2	15:O:239:HIS:CE1	1.81	1.33
17:Q:352:TRP:CE3	17:Q:357:PRO:HG2	1.63	1.33
17:Q:247:ILE:O	17:Q:250:LEU:HB2	1.23	1.33
7:G:96:SER:O	7:G:99:ASP:N	1.58	1.33
16:P:287:TRP:CZ3	16:P:290:THR:HG22	1.63	1.33
14:N:95:ILE:CD1	14:N:136:VAL:HG21	1.56	1.33
15:O:672:ILE:HD12	15:O:734:LYS:NZ	1.42	1.33
16:P:101:LYS:NZ	16:P:152:LEU:HD13	1.01	1.33
1:A:530:TRP:CB	1:A:531:PRO:HD2	1.60	1.32
15:O:314:GLN:HE21	15:O:328:ARG:CB	1.42	1.32
16:P:280:ASP:O	16:P:281:ILE:HD13	1.25	1.32
16:P:287:TRP:HZ3	16:P:290:THR:CG2	1.41	1.32
16:P:341:ARG:NH1	16:P:445:ARG:NH2	1.73	1.32
17:Q:355:THR:N	17:Q:359:MET:CG	1.92	1.32
9:I:27:ASN:CA	9:I:37:TYR:H	1.40	1.32
16:P:118:TRP:CZ3	16:P:189:LYS:HB3	1.62	1.32
16:P:362:THR:C	16:P:365:ASP:OD1	1.73	1.32
17:Q:383:PHE:CZ	17:Q:398:ASP:OD1	1.82	1.32
1:A:461:GLU:OE2	1:A:1618:THR:N	1.62	1.32
15:O:188:GLN:N	15:O:199:GLY:HA3	1.42	1.32
16:P:263:PRO:CB	16:P:266:PHE:HD2	1.34	1.32
17:Q:245:VAL:CG1	17:Q:250:LEU:HG	1.55	1.32
15:O:307:PHE:HB3	15:O:315:PHE:CE1	1.64	1.31
15:O:583:GLU:CD	15:O:584:ARG:H	1.35	1.31
16:P:155:GLN:CB	20:T:44:DC:O3'	1.77	1.31
9:I:3:VAL:HG21	9:I:43:SER:CB	1.59	1.31
15:O:188:GLN:CB	15:O:199:GLY:HA2	1.58	1.31
16:P:378:LEU:HD11	17:Q:234:LYS:C	1.55	1.31
2:B:1104:CYS:CB	2:B:1107:CYS:SG	2.17	1.31
14:N:25:ILE:CB	14:N:26:PRO:CD	2.00	1.31
15:O:176:PRO:CD	17:Q:196:GLU:O	1.76	1.31
2:B:341:SER:CB	2:B:342:PRO:CD	2.03	1.31
15:O:314:GLN:CG	15:O:328:ARG:CA	2.06	1.31
15:O:358:SER:CB	17:Q:194:GLY:HA2	1.58	1.30
15:O:706:GLU:HG3	16:P:438:PHE:CB	1.61	1.30
15:O:307:PHE:CG	15:O:315:PHE:CE2	1.95	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:347:LEU:CD2	17:Q:152:ILE:HA	1.62	1.30
15:O:433:VAL:CB	17:Q:144:VAL:CG1	2.09	1.30
15:O:771:ILE:CG2	16:P:109:GLN:CD	2.04	1.30
15:O:393:VAL:CG1	17:Q:144:VAL:HG22	1.61	1.30
15:O:686:TYR:CD2	15:O:692:THR:HG21	1.65	1.30
16:P:247:ILE:HD11	16:P:286:LEU:CD1	1.61	1.30
17:Q:247:ILE:CG1	17:Q:298:GLN:HG2	1.42	1.30
15:O:421:ILE:CD1	17:Q:138:PHE:HD2	1.34	1.30
15:O:658:LYS:O	15:O:659:LEU:HD13	1.16	1.30
15:O:740:ILE:O	15:O:744:LEU:CD1	1.79	1.30
17:Q:354:LEU:CD1	17:Q:359:MET:CA	2.07	1.30
15:O:353:ASP:HB2	17:Q:28:SER:C	1.45	1.29
1:A:461:GLU:OE2	1:A:1618:THR:CB	1.79	1.29
16:P:235:GLY:CA	16:P:289:ARG:HB2	0.82	1.29
17:Q:25:ASN:O	17:Q:29:ARG:CG	1.77	1.29
5:E:127:ILE:CD1	5:E:132:ILE:HG13	1.63	1.29
15:O:433:VAL:CG1	17:Q:144:VAL:HG12	1.63	1.29
17:Q:283:ARG:CA	17:Q:302:ARG:CB	2.04	1.29
15:O:314:GLN:NE2	15:O:328:ARG:HB3	1.45	1.29
15:O:747:LEU:O	15:O:748:GLU:HG2	1.15	1.29
1:A:721:LYS:CB	1:A:722:PRO:CD	2.09	1.28
15:O:11:UNK:O	15:O:436:ILE:HG12	1.32	1.28
15:O:353:ASP:CB	17:Q:28:SER:CA	1.88	1.28
16:P:184:TRP:NE1	16:P:190:MET:HB2	1.47	1.28
16:P:187:THR:OG1	16:P:189:LYS:HG3	1.29	1.28
15:O:590:GLY:HA2	16:P:320:PHE:CZ	1.68	1.28
15:O:314:GLN:HG3	15:O:329:ILE:N	0.97	1.28
16:P:287:TRP:CZ2	16:P:298:VAL:HG11	1.66	1.28
17:Q:380:SER:C	17:Q:384:VAL:HG13	1.57	1.28
9:I:37:TYR:HB3	9:I:38:PRO:CD	1.56	1.28
15:O:275:GLU:HB3	15:O:285:MET:O	1.29	1.27
15:O:592:LEU:CD1	16:P:512:ARG:HH21	1.45	1.27
15:O:698:LYS:HB3	16:P:125:PHE:CE1	1.67	1.27
15:O:194:ARG:HG2	15:O:197:ARG:NH1	1.47	1.27
15:O:346:ASN:O	15:O:347:LEU:HG	1.17	1.27
15:O:715:TYR:OH	15:O:734:LYS:HD2	1.19	1.27
17:Q:363:GLU:O	17:Q:367:ILE:HG22	1.10	1.27
15:O:475:ARG:HG3	15:O:497:VAL:O	1.11	1.27
15:O:581:ALA:CB	15:O:585:GLU:HB2	1.59	1.27
15:O:768:TYR:CE1	16:P:145:ASN:OD1	1.88	1.27
16:P:210:TYR:HB2	20:T:43:DT:C4'	1.62	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:294:VAL:HG23	17:Q:295:PRO:CD	1.63	1.27
16:P:147:GLN:O	16:P:151:GLU:HB3	1.32	1.27
16:P:366:TYR:HE1	17:Q:215:THR:CA	1.48	1.27
17:Q:349:ILE:HD13	17:Q:368:TYR:CD1	1.68	1.27
2:B:1121:GLY:O	7:G:239:THR:O	1.53	1.27
15:O:592:LEU:HD12	16:P:512:ARG:NH2	1.49	1.27
15:O:715:TYR:OH	15:O:734:LYS:CD	1.83	1.27
16:P:122:GLU:OE1	16:P:123:MET:HG2	1.24	1.27
16:P:146:ASP:C	16:P:148:PRO:HD3	1.58	1.27
17:Q:25:ASN:O	17:Q:29:ARG:HG3	1.26	1.27
17:Q:355:THR:N	17:Q:359:MET:HG2	0.96	1.27
16:P:151:GLU:OE2	16:P:154:LEU:HD13	1.25	1.26
17:Q:266:SER:O	17:Q:268:LEU:N	1.66	1.26
17:Q:298:GLN:O	17:Q:299:THR:HG22	1.32	1.26
15:O:260:LEU:CD1	15:O:261:VAL:H	1.45	1.26
15:O:701:HIS:HE1	16:P:122:GLU:O	1.07	1.26
15:O:768:TYR:CG	16:P:145:ASN:OD1	1.87	1.26
16:P:101:LYS:CD	16:P:152:LEU:CD1	2.14	1.26
16:P:369:TRP:HH2	16:P:377:PHE:CD1	1.51	1.26
17:Q:208:TYR:O	17:Q:211:ARG:HG2	1.28	1.26
17:Q:247:ILE:HD13	17:Q:248:LYS:N	1.46	1.26
17:Q:355:THR:O	17:Q:359:MET:HG3	1.13	1.26
15:O:423:ILE:CG2	17:Q:141:TRP:HH2	1.47	1.26
16:P:155:GLN:HB3	20:T:45:DC:P	1.74	1.26
17:Q:158:THR:O	17:Q:160:HIS:N	1.67	1.26
15:O:214:LEU:C	15:O:236:ILE:CG1	2.06	1.26
15:O:12:UNK:CB	15:O:439:LYS:NZ	1.98	1.26
16:P:362:THR:O	16:P:365:ASP:OD1	1.54	1.26
15:O:309:PRO:HD2	15:O:365:TRP:CG	1.70	1.25
15:O:686:TYR:CG	15:O:692:THR:HG21	1.71	1.25
16:P:294:HIS:CB	20:T:48:DA:N6	1.99	1.25
9:I:27:ASN:N	9:I:39:LYS:HB2	1.50	1.25
9:I:42:PHE:CE2	9:I:44:ASN:HA	1.69	1.25
16:P:223:ASN:ND2	16:P:224:GLY:N	1.85	1.25
16:P:366:TYR:OH	17:Q:214:VAL:O	1.53	1.25
15:O:771:ILE:HG23	16:P:109:GLN:OE1	1.34	1.25
17:Q:294:VAL:CG2	17:Q:295:PRO:CD	2.15	1.25
15:O:353:ASP:CA	17:Q:28:SER:HA	1.66	1.25
17:Q:277:ILE:HG13	17:Q:278:TYR:CE1	1.65	1.25
17:Q:355:THR:HB	17:Q:356:PRO:CD	1.67	1.25
17:Q:380:SER:O	17:Q:384:VAL:HG13	1.14	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:353:ASP:OD1	17:Q:31:PHE:HD2	1.19	1.24
16:P:139:LYS:NZ	16:P:242:PHE:CE2	2.05	1.24
16:P:199:LEU:H	16:P:200:PRO:CD	1.25	1.24
16:P:258:MET:N	16:P:262:LEU:HD13	1.52	1.24
16:P:330:TRP:CH2	16:P:334:LEU:HD11	1.70	1.24
19:S:28:DT:O4	20:T:27:DA:N1	1.68	1.24
16:P:104:PHE:CZ	16:P:155:GLN:NE2	1.91	1.24
15:O:736:ILE:HD13	15:O:739:ASP:OD2	1.35	1.24
16:P:284:LEU:CD1	16:P:302:ALA:CA	2.02	1.24
15:O:433:VAL:CB	17:Q:144:VAL:HG11	1.68	1.24
15:O:214:LEU:O	15:O:236:ILE:HB	1.38	1.24
16:P:357:TYR:OH	17:Q:203:SER:CA	1.85	1.24
15:O:768:TYR:CD2	16:P:145:ASN:ND2	2.05	1.23
14:N:95:ILE:CD1	14:N:136:VAL:CG2	2.16	1.23
15:O:260:LEU:CD2	15:O:273:ARG:CA	2.13	1.23
16:P:195:ALA:O	16:P:198:ILE:HD11	1.12	1.23
16:P:357:TYR:CZ	17:Q:203:SER:HA	1.74	1.23
16:P:357:TYR:OH	17:Q:203:SER:CB	1.87	1.23
17:Q:277:ILE:CD1	17:Q:278:TYR:CE1	2.22	1.23
1:A:406:LEU:HD12	1:A:407:GLN:N	1.53	1.23
15:O:475:ARG:NH2	15:O:496:THR:HG23	1.54	1.23
15:O:659:LEU:O	15:O:663:LEU:CG	1.85	1.23
16:P:200:PRO:CB	16:P:203:TRP:HB2	1.69	1.22
15:O:578:PHE:CZ	16:P:312:LEU:HD12	1.73	1.22
2:B:111:ASP:OD1	2:B:116:ALA:HB1	1.34	1.22
15:O:740:ILE:O	15:O:744:LEU:HD11	1.31	1.22
15:O:348:HIS:CD2	15:O:349:GLY:H	1.55	1.22
2:B:1137:ASP:O	2:B:1140:LYS:HG2	1.39	1.22
15:O:314:GLN:HG3	15:O:328:ARG:CA	1.63	1.22
15:O:715:TYR:CZ	15:O:734:LYS:HE3	1.67	1.21
16:P:494:SER:CB	16:P:497:GLN:HB3	1.68	1.21
15:O:727:PRO:CG	16:P:265:GLU:OE2	1.88	1.21
15:O:768:TYR:CD1	16:P:145:ASN:OD1	1.93	1.21
16:P:119:LEU:HD11	16:P:165:LEU:CD1	1.69	1.21
16:P:257:VAL:HG12	16:P:262:LEU:CD1	1.69	1.21
16:P:492:ALA:C	16:P:493:ILE:HD12	1.65	1.21
15:O:353:ASP:OD1	17:Q:31:PHE:CD2	1.93	1.21
17:Q:277:ILE:HD11	17:Q:278:TYR:CE1	1.75	1.21
16:P:143:THR:CG2	16:P:236:MET:CE	1.81	1.21
16:P:494:SER:HB3	16:P:497:GLN:OE1	1.39	1.21
15:O:351:ILE:CG2	17:Q:157:MET:HE1	1.56	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:398:ALA:CB	17:Q:134:PRO:HG3	1.70	1.20
15:O:431:ASP:HB2	15:O:432:PRO:CD	1.64	1.20
15:O:307:PHE:HB3	15:O:315:PHE:CZ	1.35	1.20
15:O:352:PHE:C	15:O:354:PRO:HD2	1.65	1.20
17:Q:353:VAL:CA	17:Q:358:PHE:CD1	1.85	1.20
14:N:94:ASP:O	14:N:96:GLU:N	1.73	1.20
15:O:6:UNK:O	17:Q:425:ALA:CA	1.89	1.20
15:O:176:PRO:HD2	17:Q:196:GLU:O	1.05	1.20
15:O:323:ASN:O	15:O:348:HIS:HB2	1.42	1.20
15:O:669:PHE:CE1	15:O:738:LYS:CE	2.23	1.20
1:A:668:GLY:HA3	1:A:787:GLY:O	1.41	1.20
15:O:248:PRO:HD2	15:O:307:PHE:CZ	1.77	1.20
15:O:436:ILE:CG2	17:Q:141:TRP:CE3	2.18	1.20
17:Q:279:SER:O	17:Q:301:SER:HB2	1.03	1.20
15:O:347:LEU:HB3	17:Q:152:ILE:CA	1.71	1.20
17:Q:277:ILE:CG1	17:Q:278:TYR:CD1	2.20	1.20
19:S:28:DT:O4	20:T:27:DA:C6	1.93	1.20
1:A:116:HIS:HE1	1:A:185:ARG:CB	1.53	1.19
3:C:151:THR:CG2	3:C:155:GLU:CD	2.14	1.19
15:O:12:UNK:CB	15:O:439:LYS:HZ3	1.53	1.19
15:O:658:LYS:C	15:O:659:LEU:CD1	2.15	1.19
1:A:417:ARG:NH1	1:A:420:PHE:CG	2.07	1.19
15:O:214:LEU:C	15:O:236:ILE:HG13	1.64	1.19
15:O:260:LEU:HD23	15:O:273:ARG:CA	1.72	1.19
15:O:347:LEU:CB	17:Q:152:ILE:CA	2.20	1.19
16:P:101:LYS:HD2	16:P:152:LEU:CD1	1.70	1.19
15:O:641:TRP:HE1	15:O:653:SER:CB	1.46	1.19
15:O:659:LEU:O	15:O:663:LEU:HG	1.01	1.19
16:P:146:ASP:C	16:P:148:PRO:CD	2.14	1.19
16:P:147:GLN:O	16:P:151:GLU:CB	1.89	1.19
16:P:294:HIS:CB	20:T:48:DA:H61	1.51	1.19
16:P:344:THR:HG22	16:P:436:LEU:C	1.44	1.19
17:Q:247:ILE:HG21	17:Q:278:TYR:CE2	1.73	1.19
17:Q:356:PRO:CG	17:Q:357:PRO:CD	1.98	1.19
17:Q:208:TYR:HA	17:Q:211:ARG:CD	1.73	1.19
9:I:42:PHE:CZ	9:I:44:ASN:CA	2.24	1.18
15:O:10:UNK:CB	17:Q:142:ARG:HA	1.73	1.18
15:O:375:PHE:CZ	15:O:405:TYR:HB3	1.78	1.18
15:O:665:ASN:O	15:O:667:ASP:N	1.74	1.18
1:A:460:LEU:O	1:A:465:GLY:HA2	1.41	1.18
7:G:154:ASN:O	7:G:245:VAL:HG11	1.41	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:650:LEU:HB2	16:P:242:PHE:HE2	1.08	1.18
17:Q:380:SER:O	17:Q:384:VAL:CG1	1.90	1.18
15:O:384:ASP:HB3	15:O:389:TRP:HB3	1.21	1.18
16:P:235:GLY:HA3	16:P:289:ARG:HB2	1.26	1.18
17:Q:143:THR:O	17:Q:144:VAL:HG23	1.41	1.18
15:O:314:GLN:HB3	15:O:329:ILE:HG13	1.20	1.18
15:O:356:GLU:HG2	15:O:377:ARG:NH2	1.56	1.18
15:O:650:LEU:CB	16:P:242:PHE:CE2	2.27	1.18
16:P:263:PRO:CG	16:P:266:PHE:CD2	2.27	1.18
16:P:369:TRP:CH2	16:P:377:PHE:CD1	2.29	1.18
17:Q:361:ASP:OD1	17:Q:362:ALA:N	1.75	1.18
16:P:101:LYS:NZ	16:P:151:GLU:O	1.74	1.17
1:A:464:GLU:O	1:A:468:ARG:HB2	1.40	1.17
15:O:433:VAL:HB	17:Q:144:VAL:CB	1.72	1.17
15:O:715:TYR:CE1	15:O:734:LYS:CD	2.26	1.17
17:Q:246:GLN:O	17:Q:248:LYS:N	1.78	1.17
17:Q:285:VAL:HG23	17:Q:302:ARG:NE	1.58	1.17
17:Q:354:LEU:HD12	17:Q:358:PHE:O	1.41	1.17
9:I:38:PRO:HA	9:I:40:SER:O	1.41	1.17
9:I:38:PRO:CA	9:I:40:SER:O	1.93	1.17
15:O:186:TYR:HE2	15:O:512:LEU:CD2	1.55	1.17
16:P:494:SER:HB3	16:P:497:GLN:CD	1.68	1.17
15:O:375:PHE:HZ	15:O:405:TYR:HB3	1.05	1.17
15:O:581:ALA:CB	15:O:585:GLU:HB3	1.68	1.17
16:P:157:HIS:NE2	16:P:158:MET:HG2	1.59	1.17
19:S:28:DT:C4	20:T:27:DA:N1	2.12	1.17
15:O:421:ILE:CD1	17:Q:138:PHE:CE2	2.11	1.17
15:O:655:SER:OG	16:P:244:ASN:HB3	1.45	1.17
15:O:771:ILE:CG2	16:P:109:GLN:OE1	1.90	1.17
16:P:363:SER:O	16:P:366:TYR:HB3	1.42	1.17
15:O:658:LYS:O	15:O:659:LEU:CD1	1.93	1.16
16:P:178:THR:OG1	16:P:490:ASP:HB3	1.42	1.16
1:A:417:ARG:NH1	1:A:420:PHE:CD2	2.14	1.16
1:A:461:GLU:OE2	1:A:1618:THR:CA	1.93	1.16
15:O:188:GLN:CB	15:O:199:GLY:CA	2.20	1.16
15:O:641:TRP:CD1	15:O:653:SER:CB	2.25	1.16
15:O:657:SER:CB	15:O:746:ARG:HD3	1.76	1.16
16:P:287:TRP:CZ3	16:P:290:THR:CG2	2.24	1.16
16:P:341:ARG:HH11	16:P:341:ARG:HG2	0.99	1.16
15:O:14:UNK:O	15:O:439:LYS:O	1.64	1.16
15:O:347:LEU:CD2	17:Q:152:ILE:HG12	1.74	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:347:LEU:HD13	17:Q:151:PRO:O	1.45	1.16
15:O:780:ILE:C	16:P:199:LEU:CD2	2.18	1.16
16:P:208:PRO:HB2	16:P:213:SER:CA	1.76	1.16
15:O:428:GLU:HB3	15:O:432:PRO:O	1.45	1.16
15:O:442:LEU:HD13	15:O:444:PRO:HD2	1.28	1.16
15:O:715:TYR:CZ	15:O:734:LYS:CD	2.28	1.16
16:P:119:LEU:CD1	16:P:165:LEU:HD12	1.74	1.16
9:I:27:ASN:CB	9:I:36:ILE:HA	1.76	1.16
16:P:262:LEU:O	16:P:264:PRO:HD3	1.40	1.16
1:A:117:ARG:HG3	1:A:185:ARG:CZ	1.76	1.15
1:A:784:SER:O	1:A:789:SER:HB2	1.46	1.15
16:P:147:GLN:N	16:P:148:PRO:HD3	1.41	1.15
16:P:334:LEU:O	16:P:338:LEU:HG	1.46	1.15
17:Q:381:ARG:C	17:Q:384:VAL:HG22	1.71	1.15
1:A:921:PRO:CG	8:H:19:ARG:HG3	1.69	1.15
15:O:12:UNK:HA	15:O:436:ILE:HD11	1.23	1.15
17:Q:136:LYS:HB3	17:Q:304:HIS:CD2	1.75	1.15
15:O:186:TYR:CE2	15:O:512:LEU:HD22	1.81	1.15
17:Q:247:ILE:CD1	17:Q:248:LYS:N	2.04	1.15
15:O:641:TRP:CE3	15:O:644:THR:O	1.98	1.15
16:P:257:VAL:CG1	16:P:262:LEU:CD1	2.23	1.15
16:P:357:TYR:OH	17:Q:203:SER:HA	1.42	1.15
17:Q:25:ASN:O	17:Q:29:ARG:CD	1.95	1.15
1:A:85:CYS:CB	1:A:431:GLN:OE1	1.91	1.15
2:B:75:ASP:HB3	2:B:77:LYS:HD2	1.20	1.15
15:O:715:TYR:CZ	15:O:734:LYS:HD2	1.81	1.15
17:Q:277:ILE:HD11	17:Q:278:TYR:HE1	1.02	1.15
5:E:127:ILE:HD11	5:E:132:ILE:CD1	1.75	1.14
17:Q:245:VAL:HG12	17:Q:250:LEU:CD1	1.65	1.14
16:P:104:PHE:CD1	16:P:211:TYR:CB	2.30	1.14
16:P:287:TRP:HZ2	16:P:298:VAL:CG1	1.60	1.14
17:Q:247:ILE:CG1	17:Q:298:GLN:CG	1.88	1.14
9:I:30:CYS:CB	9:I:33:CYS:SG	2.33	1.14
15:O:422:ILE:HB	15:O:440:HIS:CE1	1.81	1.14
16:P:155:GLN:HG2	20:T:44:DC:H4'	1.16	1.14
16:P:155:GLN:C	20:T:45:DC:OP1	1.90	1.14
16:P:195:ALA:O	16:P:198:ILE:CD1	1.95	1.14
17:Q:137:SER:O	17:Q:296:PRO:HG3	1.48	1.14
15:O:298:ASP:OD2	17:Q:158:THR:HA	0.97	1.14
15:O:393:VAL:HG11	17:Q:144:VAL:CG2	1.76	1.14
15:O:399:TRP:NE1	17:Q:134:PRO:HG2	1.61	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:701:HIS:CE1	16:P:122:GLU:O	2.00	1.14
16:P:417:PHE:CE2	17:Q:236:PHE:HE2	1.66	1.14
17:Q:26:TYR:CA	17:Q:29:ARG:HD3	1.69	1.14
17:Q:124:GLU:CD	17:Q:289:ASN:HD21	1.56	1.14
15:O:694:ILE:HD11	15:O:698:LYS:HD2	1.15	1.14
15:O:727:PRO:HG2	16:P:265:GLU:OE2	0.99	1.14
16:P:118:TRP:CH2	16:P:189:LYS:CB	2.30	1.14
16:P:344:THR:CG2	16:P:436:LEU:O	1.96	1.14
17:Q:247:ILE:HG22	17:Q:278:TYR:HE2	1.06	1.14
19:S:28:DT:O2	19:S:29:DT:N3	1.79	1.14
15:O:475:ARG:CG	15:O:497:VAL:O	1.96	1.13
15:O:568:ILE:CG2	15:O:570:ASP:HB2	1.77	1.13
15:O:592:LEU:HD11	16:P:512:ARG:NE	1.62	1.13
15:O:669:PHE:O	15:O:738:LYS:NZ	1.80	1.13
1:A:592:GLN:CB	1:A:593:PRO:HD3	1.76	1.13
2:B:1139:LYS:O	2:B:1141:LEU:N	1.81	1.13
9:I:3:VAL:HG21	9:I:43:SER:OG	1.47	1.13
15:O:273:ARG:HG3	15:O:274:ILE:H	1.01	1.13
15:O:654:LEU:CD1	15:O:748:GLU:HG3	1.76	1.13
17:Q:26:TYR:CA	17:Q:29:ARG:CD	2.26	1.13
1:A:116:HIS:CE1	1:A:185:ARG:CB	2.30	1.13
15:O:214:LEU:O	15:O:236:ILE:CB	1.95	1.13
15:O:590:GLY:HA2	16:P:320:PHE:CE1	1.84	1.13
1:A:921:PRO:CG	8:H:19:ARG:HG2	1.72	1.13
15:O:221:ARG:HG2	15:O:227:LEU:CD2	1.79	1.13
15:O:358:SER:OG	17:Q:194:GLY:C	1.91	1.13
16:P:106:LYS:HE2	16:P:203:TRP:CH2	1.82	1.13
14:N:26:PRO:O	14:N:28:GLY:N	1.80	1.13
15:O:10:UNK:O	17:Q:141:TRP:CB	1.96	1.12
15:O:324:TRP:CD1	15:O:348:HIS:HB2	1.82	1.12
16:P:238:HIS:CE1	16:P:289:ARG:CZ	2.32	1.13
15:O:186:TYR:HE2	15:O:512:LEU:HD22	1.01	1.12
15:O:194:ARG:O	15:O:196:TYR:CD2	2.02	1.12
15:O:376:ASP:OD1	15:O:378:SER:N	1.81	1.12
15:O:431:ASP:CB	15:O:432:PRO:CD	2.24	1.12
15:O:583:GLU:HG2	15:O:584:ARG:N	1.51	1.12
15:O:698:LYS:HE2	16:P:126:PRO:CD	1.77	1.12
16:P:104:PHE:CD1	16:P:211:TYR:HD1	1.67	1.12
16:P:257:VAL:CB	16:P:262:LEU:HD12	1.79	1.12
7:G:154:ASN:O	7:G:245:VAL:CG1	1.97	1.12
15:O:15:UNK:O	15:O:20:UNK:CB	1.97	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:314:GLN:HG2	15:O:328:ARG:CA	1.76	1.12
15:O:590:GLY:CA	16:P:320:PHE:CZ	2.32	1.12
17:Q:248:LYS:HD2	17:Q:298:GLN:HE22	1.03	1.12
1:A:463:LYS:O	1:A:468:ARG:NH1	1.82	1.12
1:A:785:GLN:O	1:A:789:SER:OG	1.68	1.12
15:O:6:UNK:O	17:Q:425:ALA:HA	0.96	1.12
15:O:592:LEU:HD11	16:P:512:ARG:HE	1.09	1.12
15:O:655:SER:HB3	16:P:244:ASN:CB	1.78	1.12
16:P:155:GLN:HB3	20:T:44:DC:O3'	0.96	1.12
19:S:28:DT:HI'	19:S:29:DT:C6	1.85	1.12
7:G:96:SER:O	7:G:97:LYS:C	1.92	1.12
15:O:415:LEU:HD13	15:O:453:VAL:HG11	1.30	1.12
15:O:705:HIS:NE2	15:O:707:ASP:HB2	1.62	1.12
16:P:118:TRP:CH2	16:P:189:LYS:HB3	1.82	1.12
16:P:119:LEU:CD1	16:P:165:LEU:CD1	2.27	1.12
17:Q:279:SER:O	17:Q:301:SER:CB	1.96	1.12
1:A:920:PHE:HB3	1:A:921:PRO:CD	1.80	1.11
7:G:96:SER:O	7:G:98:GLU:N	1.81	1.11
15:O:650:LEU:CB	16:P:242:PHE:HE2	1.63	1.11
15:O:722:TRP:HZ3	16:P:262:LEU:O	1.19	1.11
15:O:772:ILE:CD1	16:P:138:LEU:HD21	1.79	1.11
16:P:104:PHE:CD1	16:P:211:TYR:CD1	2.38	1.11
9:I:27:ASN:CB	9:I:36:ILE:CA	2.27	1.11
15:O:194:ARG:O	15:O:196:TYR:HD2	1.31	1.11
17:Q:24:ILE:O	17:Q:28:SER:OG	1.67	1.11
17:Q:296:PRO:HB3	17:Q:304:HIS:CE1	1.85	1.11
5:E:3:GLN:O	5:E:7:ARG:HB2	1.49	1.11
15:O:596:ILE:HG23	16:P:317:MET:HE1	1.30	1.11
15:O:655:SER:HB3	16:P:244:ASN:HB3	1.19	1.11
17:Q:356:PRO:CD	17:Q:357:PRO:CD	2.28	1.11
17:Q:381:ARG:CA	17:Q:384:VAL:HG22	1.81	1.11
2:B:77:LYS:HE2	2:B:93:ASN:HB3	1.21	1.11
16:P:122:GLU:OE1	16:P:123:MET:CG	1.97	1.11
16:P:284:LEU:HD11	16:P:302:ALA:HA	1.16	1.11
1:A:116:HIS:CE1	1:A:185:ARG:CD	2.33	1.11
1:A:461:GLU:OE2	1:A:1618:THR:HB	1.42	1.11
1:A:668:GLY:CA	1:A:787:GLY:O	1.99	1.11
15:O:472:ARG:NE	17:Q:200:THR:CG2	2.12	1.11
15:O:641:TRP:NE1	15:O:653:SER:HB3	1.54	1.11
15:O:358:SER:CB	17:Q:194:GLY:CA	2.24	1.10
16:P:147:GLN:N	16:P:148:PRO:CD	2.14	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:200:PRO:HB3	16:P:203:TRP:HB2	1.27	1.10
17:Q:27:ILE:HD12	17:Q:169:PRO:HG2	1.11	1.10
2:B:155:VAL:CG2	17:Q:359:MET:SD	2.38	1.10
15:O:347:LEU:HD23	17:Q:152:ILE:HG12	1.21	1.10
15:O:388:ASN:HB3	17:Q:150:GLN:NE2	1.65	1.10
16:P:284:LEU:CD1	16:P:302:ALA:CB	2.23	1.10
17:Q:158:THR:CG2	17:Q:161:ASN:HB2	1.82	1.10
9:I:27:ASN:CA	9:I:37:TYR:N	2.04	1.10
9:I:27:ASN:HB3	9:I:36:ILE:HB	1.30	1.10
15:O:633:ALA:HB3	15:O:662:LEU:HD13	1.34	1.10
16:P:143:THR:HG21	16:P:236:MET:HE2	1.16	1.10
15:O:422:ILE:CB	15:O:440:HIS:CE1	2.34	1.10
16:P:284:LEU:HD13	16:P:302:ALA:HB1	1.24	1.10
15:O:347:LEU:CG	17:Q:152:ILE:HA	1.80	1.10
15:O:358:SER:OG	17:Q:194:GLY:O	1.69	1.10
15:O:358:SER:HB2	17:Q:194:GLY:HA2	1.13	1.10
15:O:592:LEU:CD1	16:P:512:ARG:NH2	2.08	1.10
15:O:603:ARG:NH2	16:P:268:PHE:CD1	2.20	1.10
15:O:656:HIS:CB	15:O:747:LEU:O	2.00	1.10
15:O:686:TYR:HA	15:O:689:GLN:HG2	1.33	1.10
16:P:101:LYS:HZ3	16:P:152:LEU:CD1	1.55	1.10
15:O:10:UNK:O	17:Q:141:TRP:HB3	1.49	1.09
15:O:275:GLU:O	15:O:284:VAL:HG13	1.52	1.09
15:O:651:SER:O	15:O:749:LYS:HE2	1.32	1.09
17:Q:248:LYS:H	17:Q:298:GLN:NE2	1.49	1.09
1:A:785:GLN:C	1:A:789:SER:OG	1.96	1.09
7:G:237:HIS:O	7:G:244:SER:HB2	1.49	1.09
15:O:273:ARG:NH1	15:O:274:ILE:HG23	1.68	1.09
16:P:356:VAL:HG13	16:P:358:PRO:HG3	1.31	1.09
16:P:419:LEU:CD1	17:Q:237:ALA:CB	2.29	1.09
15:O:18:UNK:O	17:Q:256:GLU:HB2	1.50	1.09
15:O:327:GLY:HA3	15:O:340:LYS:HD2	1.32	1.09
15:O:577:LEU:HD13	16:P:502:ILE:HG21	1.33	1.09
15:O:702:LEU:HG	16:P:125:PHE:CE2	1.86	1.09
15:O:10:UNK:CB	17:Q:141:TRP:C	2.25	1.09
15:O:260:LEU:HD23	15:O:273:ARG:HA	1.15	1.09
15:O:399:TRP:O	15:O:419:ARG:NH2	1.84	1.09
15:O:422:ILE:HG21	15:O:440:HIS:CE1	1.88	1.09
16:P:108:PHE:HE2	16:P:137:TRP:CZ3	1.70	1.09
16:P:183:LYS:HD3	16:P:189:LYS:NZ	1.66	1.09
17:Q:354:LEU:HD11	17:Q:359:MET:HA	1.17	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:HIS:CE1	1:A:185:ARG:HD3	1.88	1.09
15:O:422:ILE:CG2	15:O:440:HIS:CE1	2.35	1.09
15:O:650:LEU:HB3	16:P:242:PHE:CE2	1.87	1.09
15:O:706:GLU:HG3	16:P:438:PHE:HB2	1.09	1.09
15:O:19:UNK:CB	17:Q:255:VAL:HG23	1.82	1.08
15:O:421:ILE:HD12	17:Q:138:PHE:CD2	1.80	1.08
15:O:422:ILE:O	15:O:439:LYS:CB	2.00	1.08
15:O:472:ARG:NE	17:Q:200:THR:HG21	1.68	1.08
16:P:344:THR:CG2	16:P:436:LEU:C	2.26	1.08
16:P:366:TYR:CE1	17:Q:215:THR:CA	2.27	1.08
15:O:780:ILE:C	16:P:199:LEU:HD21	1.76	1.08
16:P:219:ILE:HG12	17:Q:206:ARG:HG3	1.33	1.08
17:Q:380:SER:C	17:Q:384:VAL:CG1	2.24	1.08
5:E:127:ILE:CD1	5:E:132:ILE:CG1	2.22	1.08
15:O:11:UNK:O	15:O:436:ILE:CG1	2.01	1.08
15:O:194:ARG:HA	15:O:197:ARG:NH2	0.76	1.08
15:O:215:ASN:N	15:O:236:ILE:HG13	1.67	1.08
15:O:314:GLN:CB	15:O:329:ILE:N	2.16	1.08
15:O:654:LEU:HD11	15:O:748:GLU:HG3	1.36	1.08
15:O:440:HIS:ND1	15:O:481:PHE:HZ	1.49	1.08
15:O:653:SER:HB2	15:O:748:GLU:O	0.91	1.08
16:P:205:ILE:C	16:P:207:LEU:H	1.58	1.08
16:P:246:GLU:O	16:P:285:THR:HA	1.51	1.08
15:O:623:LEU:CD1	15:O:668:SER:C	2.27	1.08
15:O:663:LEU:HD23	15:O:742:TRP:HH2	1.11	1.08
16:P:155:GLN:O	20:T:45:DC:OP1	1.71	1.08
17:Q:388:LYS:HD2	17:Q:393:ILE:HB	1.36	1.08
15:O:399:TRP:CD1	17:Q:134:PRO:CG	2.36	1.07
15:O:693:PHE:CB	15:O:746:ARG:O	2.00	1.07
15:O:724:LEU:HD12	16:P:443:GLN:HG2	1.35	1.07
16:P:284:LEU:CG	16:P:305:ARG:NH1	2.16	1.07
16:P:370:SER:OG	16:P:373:GLU:CD	1.97	1.07
17:Q:363:GLU:O	17:Q:367:ILE:CG2	2.01	1.07
2:B:1151:ILE:HA	2:B:1160:GLU:O	1.54	1.07
9:I:27:ASN:H	9:I:39:LYS:CB	1.66	1.07
15:O:14:UNK:CB	15:O:438:TRP:CB	2.32	1.07
15:O:347:LEU:O	15:O:347:LEU:HD12	1.54	1.07
15:O:390:GLN:HB2	17:Q:151:PRO:HG3	1.31	1.07
15:O:648:SER:O	15:O:649:ILE:O	1.72	1.07
15:O:655:SER:CB	16:P:244:ASN:CB	2.29	1.07
16:P:280:ASP:C	16:P:281:ILE:CD1	2.28	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:399:SER:O	16:P:407:LYS:HE3	1.53	1.07
15:O:390:GLN:OE1	17:Q:151:PRO:CD	2.02	1.07
15:O:399:TRP:CD1	17:Q:134:PRO:HG2	1.88	1.07
15:O:669:PHE:C	15:O:671:SER:H	1.62	1.07
16:P:104:PHE:HB2	16:P:211:TYR:CE1	1.89	1.07
16:P:287:TRP:CH2	16:P:298:VAL:HG21	1.89	1.07
17:Q:26:TYR:HA	17:Q:29:ARG:CD	1.82	1.07
17:Q:283:ARG:HA	17:Q:302:ARG:HB3	1.07	1.07
2:B:155:VAL:CG2	17:Q:359:MET:HE1	1.84	1.07
9:I:17:LEU:HD21	9:I:37:TYR:CE2	1.90	1.07
15:O:275:GLU:CB	15:O:285:MET:O	2.01	1.07
15:O:475:ARG:HH21	15:O:496:THR:HG23	0.95	1.07
15:O:657:SER:HB2	15:O:746:ARG:HD3	1.29	1.07
16:P:340:GLN:HG3	16:P:341:ARG:N	1.68	1.07
15:O:768:TYR:CG	16:P:145:ASN:ND2	2.21	1.07
16:P:385:PHE:HE2	17:Q:212:HIS:CD2	1.73	1.07
2:B:341:SER:HB3	2:B:342:PRO:HD3	1.08	1.06
15:O:260:LEU:CD1	15:O:261:VAL:N	2.10	1.06
15:O:273:ARG:HB2	15:O:287:SER:OG	1.56	1.06
16:P:184:TRP:CD1	16:P:190:MET:HB2	1.90	1.06
17:Q:302:ARG:HG3	17:Q:303:THR:H	1.11	1.06
15:O:214:LEU:C	15:O:236:ILE:CB	2.27	1.06
15:O:260:LEU:CD2	15:O:273:ARG:C	2.28	1.06
15:O:569:VAL:HG21	16:P:478:ARG:N	1.70	1.06
15:O:616:SER:HA	15:O:620:ASP:H	1.17	1.06
16:P:193:PHE:O	16:P:217:GLY:HA3	1.52	1.06
16:P:372:GLU:O	16:P:375:LEU:N	1.88	1.06
17:Q:25:ASN:O	17:Q:29:ARG:HD3	1.52	1.06
17:Q:134:PRO:O	17:Q:135:GLU:O	1.71	1.06
17:Q:208:TYR:C	17:Q:211:ARG:HG2	1.79	1.06
15:O:307:PHE:CG	15:O:315:PHE:CZ	2.43	1.06
15:O:623:LEU:HD12	15:O:668:SER:HB2	1.34	1.06
16:P:247:ILE:O	16:P:284:LEU:O	1.71	1.06
16:P:385:PHE:CE2	17:Q:212:HIS:CD2	2.42	1.06
2:B:341:SER:O	2:B:343:ASP:N	1.88	1.06
15:O:214:LEU:O	15:O:236:ILE:CG1	2.03	1.06
15:O:358:SER:OG	17:Q:194:GLY:HA3	1.53	1.06
15:O:772:ILE:HD12	16:P:138:LEU:HD21	1.37	1.06
16:P:340:GLN:CG	16:P:341:ARG:H	1.66	1.06
19:S:28:DT:O2	19:S:29:DT:C2	2.08	1.06
1:A:85:CYS:SG	1:A:86:TYR:N	2.15	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:151:THR:HG21	3:C:155:GLU:OE1	1.41	1.06
9:I:28:VAL:N	9:I:37:TYR:HB2	1.70	1.06
15:O:10:UNK:CB	17:Q:142:ARG:CA	2.33	1.06
15:O:650:LEU:HB2	16:P:242:PHE:CE2	1.88	1.06
16:P:106:LYS:HE2	16:P:203:TRP:HH2	0.93	1.06
16:P:154:LEU:O	16:P:156:LEU:N	1.88	1.06
16:P:340:GLN:HG3	16:P:341:ARG:H	0.90	1.06
16:P:494:SER:OG	16:P:497:GLN:HB3	1.42	1.06
17:Q:125:ARG:HH12	19:S:19:DG:H4'	0.90	1.06
17:Q:355:THR:CA	17:Q:359:MET:HG3	1.77	1.06
1:A:784:SER:C	1:A:789:SER:HB3	1.81	1.05
15:O:354:PRO:CB	17:Q:131:TYR:OH	2.03	1.05
15:O:436:ILE:CB	17:Q:141:TRP:CZ3	2.39	1.05
15:O:771:ILE:HG22	16:P:109:GLN:NE2	1.67	1.05
17:Q:154:LYS:C	17:Q:156:LYS:H	1.59	1.05
17:Q:208:TYR:O	17:Q:211:ARG:CG	2.04	1.05
17:Q:310:ILE:HG21	17:Q:363:GLU:OE1	1.55	1.05
19:S:28:DT:N3	20:T:27:DA:N1	2.05	1.05
2:B:111:ASP:OD1	2:B:116:ALA:CB	2.05	1.05
16:P:154:LEU:O	16:P:156:LEU:HD12	0.90	1.05
1:A:921:PRO:HG3	8:H:19:ARG:HG3	1.13	1.05
2:B:155:VAL:HG23	17:Q:359:MET:HE1	1.31	1.05
15:O:214:LEU:C	15:O:236:ILE:HB	1.81	1.05
15:O:421:ILE:HG21	15:O:439:LYS:HG3	1.35	1.05
15:O:422:ILE:HD11	15:O:442:LEU:HD23	1.37	1.05
15:O:583:GLU:CD	15:O:584:ARG:N	2.11	1.05
15:O:656:HIS:HB2	15:O:747:LEU:O	1.54	1.05
15:O:768:TYR:CB	16:P:145:ASN:HD21	1.70	1.05
16:P:101:LYS:HZ2	16:P:152:LEU:CA	1.69	1.05
16:P:431:ASP:C	16:P:434:HIS:HA	1.81	1.05
17:Q:26:TYR:HA	17:Q:29:ARG:HD2	1.31	1.05
1:A:83:VAL:HG21	1:A:427:PHE:CE2	1.91	1.05
15:O:353:ASP:HB3	17:Q:31:PHE:HB3	1.38	1.05
16:P:284:LEU:HG	16:P:305:ARG:HH11	1.19	1.05
1:A:721:LYS:O	1:A:723:TYR:N	1.90	1.04
15:O:440:HIS:ND1	15:O:481:PHE:CZ	2.25	1.04
16:P:183:LYS:CG	16:P:189:LYS:HZ1	1.70	1.04
17:Q:153:ASN:O	17:Q:156:LYS:HE3	1.54	1.04
19:S:28:DT:N3	20:T:27:DA:C2	2.23	1.04
1:A:592:GLN:CB	1:A:593:PRO:CD	2.33	1.04
5:E:127:ILE:CD1	5:E:132:ILE:CD1	2.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:395:GLN:HG2	15:O:397:LYS:H	0.88	1.04
15:O:599:LYS:HD3	16:P:272:GLN:NE2	1.70	1.04
15:O:693:PHE:HB2	15:O:746:ARG:O	1.56	1.04
16:P:118:TRP:CZ3	16:P:189:LYS:HD3	1.92	1.04
17:Q:264:SER:O	17:Q:265:SER:OG	1.76	1.04
1:A:406:LEU:HD22	1:A:416:ARG:HG3	1.05	1.04
15:O:178:VAL:HG22	15:O:360:TRP:HB3	1.38	1.04
15:O:388:ASN:HB3	17:Q:150:GLN:CD	1.80	1.04
15:O:581:ALA:HB3	15:O:585:GLU:CB	1.83	1.04
15:O:727:PRO:HG2	16:P:265:GLU:CD	1.83	1.04
1:A:464:GLU:HG3	1:A:469:LYS:HD3	1.37	1.04
2:B:1121:GLY:O	7:G:239:THR:CB	2.05	1.04
15:O:436:ILE:HG21	17:Q:141:TRP:CH2	1.92	1.04
15:O:747:LEU:O	15:O:748:GLU:CG	2.05	1.04
16:P:239:PHE:HE1	16:P:246:GLU:CG	1.70	1.04
16:P:387:PRO:O	16:P:389:GLN:N	1.91	1.04
16:P:419:LEU:HD12	17:Q:237:ALA:HB1	1.35	1.04
19:S:28:DT:C2	19:S:29:DT:C4	2.45	1.04
9:I:28:VAL:H	9:I:37:TYR:HB2	1.19	1.04
15:O:205:TYR:CZ	15:O:229:ARG:NH1	2.24	1.04
15:O:324:TRP:HD1	15:O:348:HIS:CG	1.75	1.04
16:P:247:ILE:CD1	16:P:286:LEU:HD12	1.86	1.04
16:P:257:VAL:CB	16:P:262:LEU:CD1	2.35	1.04
16:P:343:THR:HB	16:P:347:SER:H	1.22	1.04
17:Q:247:ILE:HG22	17:Q:278:TYR:CE2	1.80	1.04
1:A:117:ARG:HG3	1:A:185:ARG:NH2	1.71	1.03
15:O:307:PHE:CB	15:O:315:PHE:CZ	2.13	1.03
15:O:375:PHE:CZ	15:O:405:TYR:CB	2.41	1.03
15:O:433:VAL:HG11	17:Q:144:VAL:O	1.58	1.03
15:O:472:ARG:NH2	17:Q:200:THR:H	1.55	1.03
16:P:340:GLN:O	16:P:341:ARG:HB2	1.56	1.03
17:Q:298:GLN:O	17:Q:299:THR:CG2	2.06	1.03
1:A:721:LYS:HB3	1:A:722:PRO:HD3	1.03	1.03
2:B:117:VAL:CG2	17:Q:276:GLN:HG3	1.87	1.03
9:I:43:SER:O	9:I:45:LEU:N	1.90	1.03
15:O:433:VAL:CG1	17:Q:144:VAL:CG1	2.34	1.03
15:O:599:LYS:HB3	16:P:272:GLN:HE22	1.20	1.03
15:O:604:ILE:HG12	15:O:732:LEU:CD2	1.87	1.03
15:O:768:TYR:CG	16:P:145:ASN:CG	2.30	1.03
16:P:235:GLY:CA	16:P:289:ARG:CB	1.75	1.03
16:P:369:TRP:CH2	16:P:377:PHE:CG	2.45	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:247:ILE:CG1	17:Q:248:LYS:H	1.71	1.03
15:O:324:TRP:CD1	15:O:348:HIS:CB	2.42	1.03
16:P:118:TRP:CH2	16:P:189:LYS:HG2	1.92	1.03
16:P:399:SER:OG	16:P:402:MET:HG3	1.58	1.03
16:P:403:THR:O	16:P:405:ASP:N	1.92	1.03
17:Q:125:ARG:NH1	19:S:19:DG:H4'	1.72	1.03
17:Q:356:PRO:HD2	17:Q:357:PRO:CD	1.87	1.03
15:O:592:LEU:HD12	16:P:512:ARG:HH21	0.96	1.03
16:P:101:LYS:CE	16:P:152:LEU:CD1	2.34	1.03
16:P:258:MET:HG2	16:P:262:LEU:HD22	1.36	1.03
16:P:341:ARG:HH11	16:P:341:ARG:CG	1.71	1.03
16:P:354:LYS:HZ2	16:P:362:THR:CG2	1.72	1.03
16:P:284:LEU:CD2	16:P:305:ARG:NH1	2.21	1.03
16:P:494:SER:OG	16:P:497:GLN:CG	2.07	1.03
17:Q:27:ILE:CD1	17:Q:169:PRO:CB	2.30	1.03
17:Q:246:GLN:C	17:Q:247:ILE:HD13	1.84	1.02
17:Q:247:ILE:CG1	17:Q:248:LYS:N	2.21	1.02
14:N:95:ILE:HD13	14:N:136:VAL:HG21	1.39	1.02
16:P:187:THR:OG1	16:P:189:LYS:CG	2.06	1.02
16:P:210:TYR:CG	20:T:43:DT:H4'	1.94	1.02
16:P:219:ILE:HD13	17:Q:207:ASN:HA	1.40	1.02
16:P:284:LEU:HG	16:P:305:ARG:NH1	1.71	1.02
17:Q:247:ILE:HD13	17:Q:248:LYS:H	0.87	1.02
15:O:184:SER:N	15:O:509:GLU:OE2	1.90	1.02
15:O:353:ASP:C	17:Q:28:SER:HA	1.84	1.02
15:O:380:MET:HB3	15:O:394:VAL:HG21	1.38	1.02
15:O:696:PHE:HB3	15:O:711:LEU:HD12	1.34	1.02
16:P:108:PHE:CE2	16:P:137:TRP:CH2	2.47	1.02
16:P:284:LEU:HD21	16:P:305:ARG:NH1	1.74	1.02
16:P:335:THR:HA	16:P:338:LEU:HD12	1.39	1.02
16:P:469:PRO:CB	16:P:470:PRO:CD	2.37	1.02
17:Q:356:PRO:HD2	17:Q:357:PRO:HD2	1.41	1.02
17:Q:383:PHE:CE2	17:Q:388:LYS:HG2	1.94	1.02
20:T:22:DG:H2'	20:T:23:DA:C8	1.93	1.02
1:A:668:GLY:C	1:A:787:GLY:HA2	1.85	1.02
15:O:12:UNK:HA	15:O:436:ILE:CD1	1.88	1.02
15:O:780:ILE:C	16:P:199:LEU:HD22	1.85	1.02
17:Q:350:SER:O	17:Q:353:VAL:HG23	1.59	1.02
15:O:422:ILE:HG13	15:O:440:HIS:NE2	1.75	1.02
15:O:472:ARG:CZ	17:Q:200:THR:HG21	1.88	1.02
15:O:583:GLU:OE2	15:O:584:ARG:HG2	1.57	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:722:TRP:CZ2	16:P:262:LEU:HD21	1.93	1.02
15:O:722:TRP:CZ2	16:P:262:LEU:HG	1.94	1.02
16:P:235:GLY:HA2	16:P:289:ARG:HB3	1.38	1.02
16:P:287:TRP:CZ2	16:P:298:VAL:CG1	2.38	1.02
17:Q:245:VAL:HG11	17:Q:250:LEU:CD2	1.89	1.02
17:Q:248:LYS:HD2	17:Q:298:GLN:NE2	1.73	1.02
1:A:406:LEU:HD22	1:A:416:ARG:CG	1.89	1.01
15:O:380:MET:HE2	15:O:394:VAL:HG11	1.39	1.01
15:O:421:ILE:HD12	17:Q:138:PHE:HD2	1.18	1.01
15:O:654:LEU:CG	15:O:748:GLU:HG3	1.88	1.01
15:O:658:LYS:HG3	15:O:660:LYS:HE2	1.39	1.01
16:P:101:LYS:CE	16:P:152:LEU:HD12	1.88	1.01
16:P:362:THR:HA	16:P:365:ASP:OD2	1.60	1.01
17:Q:302:ARG:CG	17:Q:303:THR:H	1.73	1.01
15:O:298:ASP:CG	17:Q:158:THR:CA	2.25	1.01
15:O:316:ALA:O	15:O:340:LYS:NZ	1.94	1.01
15:O:347:LEU:HB3	17:Q:152:ILE:HA	1.29	1.01
15:O:581:ALA:HB1	15:O:585:GLU:HB2	1.06	1.01
16:P:139:LYS:NZ	16:P:242:PHE:CG	2.27	1.01
16:P:235:GLY:HA2	16:P:289:ARG:CG	1.89	1.01
16:P:494:SER:O	16:P:496:GLU:N	1.93	1.01
1:A:85:CYS:HB2	1:A:431:GLN:OE1	1.24	1.01
1:A:464:GLU:CB	1:A:469:LYS:HB3	1.91	1.01
15:O:472:ARG:NH1	17:Q:200:THR:HG23	1.75	1.01
15:O:669:PHE:CD1	15:O:738:LYS:HE2	1.95	1.01
15:O:686:TYR:HB3	15:O:692:THR:HG23	1.41	1.01
15:O:704:LEU:C	15:O:706:GLU:H	1.55	1.01
16:P:103:LEU:HD23	16:P:106:LYS:HD3	1.41	1.01
17:Q:247:ILE:O	17:Q:250:LEU:CB	2.07	1.01
15:O:309:PRO:HG2	15:O:365:TRP:CE2	1.94	1.01
15:O:346:ASN:O	15:O:347:LEU:CG	2.09	1.01
15:O:395:GLN:HG2	15:O:397:LYS:N	1.73	1.01
15:O:583:GLU:CD	15:O:584:ARG:CG	2.33	1.01
15:O:722:TRP:CZ2	16:P:262:LEU:CG	2.43	1.01
16:P:118:TRP:CZ3	16:P:189:LYS:CB	2.43	1.01
16:P:178:THR:OG1	16:P:490:ASP:CB	2.07	1.01
16:P:469:PRO:HB2	16:P:470:PRO:HD3	1.02	1.01
2:B:76:GLY:C	2:B:91:LEU:HD21	1.86	1.01
9:I:28:VAL:HG23	9:I:38:PRO:HD2	1.03	1.01
17:Q:350:SER:O	17:Q:352:TRP:N	1.94	1.01
1:A:722:PRO:HB2	8:H:46:LEU:HD23	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1121:GLY:O	7:G:239:THR:C	2.03	1.00
15:O:194:ARG:HA	15:O:197:ARG:CZ	1.89	1.00
16:P:118:TRP:CZ2	16:P:189:LYS:HG2	1.96	1.00
17:Q:296:PRO:HB3	17:Q:304:HIS:HE1	1.16	1.00
1:A:406:LEU:CD2	1:A:416:ARG:HG3	1.91	1.00
1:A:721:LYS:HB3	1:A:722:PRO:HD2	1.03	1.00
15:O:19:UNK:CB	17:Q:255:VAL:CG2	2.38	1.00
15:O:421:ILE:CG2	15:O:439:LYS:CG	2.38	1.00
16:P:104:PHE:CZ	16:P:215:LEU:CD2	2.43	1.00
16:P:257:VAL:HB	16:P:262:LEU:CD1	1.92	1.00
16:P:258:MET:CG	16:P:262:LEU:HD22	1.91	1.00
16:P:378:LEU:CD1	17:Q:234:LYS:HB3	1.91	1.00
17:Q:21:TYR:CE2	17:Q:124:GLU:HG3	1.95	1.00
16:P:184:TRP:CZ2	16:P:192:TYR:HD2	1.79	1.00
15:O:423:ILE:HD13	17:Q:141:TRP:CH2	1.96	1.00
15:O:436:ILE:HG21	17:Q:141:TRP:CD2	1.95	1.00
15:O:694:ILE:HG13	15:O:695:GLY:H	1.23	1.00
1:A:1098:SER:O	1:A:1102:LEU:HB3	1.58	1.00
15:O:414:ILE:HD12	15:O:425:GLY:HA3	1.44	1.00
16:P:354:LYS:NZ	16:P:362:THR:CG2	2.24	1.00
17:Q:127:PHE:CE1	17:Q:131:TYR:CE2	2.48	1.00
17:Q:295:PRO:C	17:Q:297:PHE:H	1.65	1.00
16:P:123:MET:HB3	16:P:125:PHE:CD2	1.97	1.00
17:Q:285:VAL:HG21	17:Q:302:ARG:NH2	1.75	1.00
1:A:721:LYS:CB	1:A:722:PRO:HD2	1.81	0.99
3:C:151:THR:HG21	3:C:155:GLU:CG	1.90	0.99
15:O:221:ARG:HG2	15:O:227:LEU:HD23	1.40	0.99
15:O:328:ARG:O	15:O:340:LYS:HA	1.62	0.99
15:O:347:LEU:HD23	17:Q:152:ILE:CG1	1.92	0.99
16:P:104:PHE:CG	16:P:211:TYR:CD1	2.50	0.99
19:S:28:DT:H4'	19:S:29:DT:H5'	1.42	0.99
9:I:28:VAL:CG2	9:I:38:PRO:HD2	1.92	0.99
15:O:194:ARG:CG	15:O:197:ARG:NH1	2.25	0.99
2:B:822:THR:O	2:B:824:HIS:CE1	2.15	0.99
15:O:260:LEU:CD2	15:O:273:ARG:O	2.11	0.99
15:O:347:LEU:CD2	17:Q:152:ILE:CA	2.39	0.99
15:O:347:LEU:HB3	17:Q:152:ILE:C	1.86	0.99
15:O:353:ASP:OD1	15:O:354:PRO:HD3	1.62	0.99
16:P:200:PRO:HB3	16:P:203:TRP:CB	1.93	0.99
17:Q:5:PRO:HB2	17:Q:244:GLY:O	1.60	0.99
15:O:10:UNK:CB	17:Q:141:TRP:O	2.10	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:296:PRO:CB	17:Q:304:HIS:CE1	2.45	0.99
9:I:27:ASN:HA	9:I:37:TYR:CA	1.92	0.99
15:O:653:SER:O	15:O:748:GLU:HB2	1.63	0.99
15:O:727:PRO:CG	16:P:265:GLU:CD	2.34	0.99
16:P:183:LYS:HD3	16:P:189:LYS:HZ2	1.24	0.99
2:B:117:VAL:HG21	17:Q:276:GLN:HG3	1.39	0.99
15:O:436:ILE:CG2	17:Q:141:TRP:CH2	2.46	0.99
15:O:376:ASP:OD2	15:O:379:LYS:HG2	1.61	0.99
15:O:398:ALA:HB3	17:Q:134:PRO:HG3	1.44	0.99
16:P:239:PHE:HE1	16:P:246:GLU:HG2	0.83	0.99
16:P:119:LEU:HD21	16:P:190:MET:HE1	1.44	0.99
16:P:257:VAL:C	16:P:262:LEU:HD13	1.88	0.99
2:B:113:VAL:O	2:B:114:SER:HB2	1.60	0.99
15:O:499:GLU:HG3	15:O:500:ILE:H	1.24	0.99
16:P:101:LYS:HZ1	16:P:151:GLU:C	1.71	0.99
19:S:28:DT:H3	20:T:27:DA:H2	1.07	0.99
15:O:260:LEU:HD11	15:O:272:PHE:H	1.26	0.99
15:O:366:PHE:HE2	15:O:432:PRO:HA	1.28	0.99
15:O:583:GLU:HG2	15:O:584:ARG:H	1.10	0.99
16:P:378:LEU:CD1	17:Q:234:LYS:CB	2.39	0.99
17:Q:302:ARG:NH2	17:Q:303:THR:CG2	2.26	0.99
17:Q:154:LYS:O	17:Q:156:LYS:N	1.94	0.98
15:O:648:SER:O	15:O:649:ILE:C	2.05	0.98
16:P:158:MET:O	16:P:192:TYR:HE1	1.46	0.98
16:P:258:MET:HG2	16:P:262:LEU:CD2	1.92	0.98
15:O:352:PHE:HB3	15:O:354:PRO:HG2	1.46	0.98
16:P:101:LYS:NZ	16:P:151:GLU:C	2.20	0.98
15:O:672:ILE:CD1	15:O:734:LYS:NZ	2.26	0.98
16:P:210:TYR:CB	20:T:43:DT:C4'	2.31	0.98
15:O:314:GLN:CB	15:O:329:ILE:HG13	1.94	0.98
15:O:722:TRP:CZ3	16:P:262:LEU:HG	1.98	0.98
15:O:724:LEU:O	15:O:725:VAL:HG12	1.63	0.98
1:A:668:GLY:CA	1:A:787:GLY:CA	2.26	0.98
15:O:578:PHE:HZ	16:P:312:LEU:HD12	1.26	0.98
16:P:284:LEU:CD2	16:P:305:ARG:HH11	1.74	0.98
17:Q:383:PHE:CE2	17:Q:398:ASP:OD1	2.17	0.98
15:O:715:TYR:HH	15:O:734:LYS:HD2	1.22	0.98
1:A:416:ARG:HD2	1:A:419:ILE:HG12	1.44	0.98
15:O:18:UNK:CB	17:Q:253:ILE:CD1	2.42	0.98
15:O:247:ILE:HG12	15:O:261:VAL:HG22	1.44	0.98
15:O:722:TRP:CZ3	16:P:264:PRO:CG	2.31	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:118:GLU:OE2	17:Q:281:LYS:NZ	1.97	0.98
15:O:353:ASP:N	15:O:354:PRO:HD2	1.78	0.98
15:O:353:ASP:N	15:O:354:PRO:CD	2.26	0.98
17:Q:277:ILE:CD1	17:Q:278:TYR:CD1	2.45	0.98
17:Q:302:ARG:HG3	17:Q:303:THR:N	1.78	0.98
7:G:245:VAL:CG2	7:G:246:ASP:N	2.27	0.97
9:I:28:VAL:CG2	9:I:38:PRO:CD	2.41	0.97
15:O:298:ASP:OD2	17:Q:157:MET:O	1.81	0.97
15:O:421:ILE:HG21	15:O:439:LYS:CG	1.93	0.97
1:A:781:LEU:HB2	1:A:786:TYR:OH	1.63	0.97
14:N:95:ILE:HD12	14:N:136:VAL:HG21	1.43	0.97
14:N:96:GLU:OE2	14:N:105:SER:HB3	1.63	0.97
15:O:275:GLU:O	15:O:284:VAL:CG1	2.12	0.97
16:P:211:TYR:CD1	16:P:212:VAL:HG23	1.99	0.97
15:O:569:VAL:HG22	16:P:478:ARG:HA	1.47	0.97
15:O:583:GLU:OE1	15:O:584:ARG:N	1.95	0.97
15:O:651:SER:O	15:O:653:SER:N	1.97	0.97
15:O:722:TRP:CE3	16:P:264:PRO:CD	2.37	0.97
16:P:210:TYR:HB2	20:T:43:DT:H4'	0.99	0.97
17:Q:152:ILE:O	17:Q:154:LYS:N	1.97	0.97
17:Q:296:PRO:CB	17:Q:304:HIS:HE1	1.75	0.97
15:O:568:ILE:HG22	15:O:570:ASP:HB2	1.45	0.97
9:I:27:ASN:CB	9:I:37:TYR:H	1.76	0.97
16:P:119:LEU:CD2	16:P:165:LEU:HD11	1.95	0.97
1:A:460:LEU:O	1:A:465:GLY:CA	2.13	0.97
1:A:464:GLU:HB2	1:A:469:LYS:HB3	1.43	0.97
15:O:421:ILE:CG2	15:O:439:LYS:HG3	1.94	0.97
15:O:298:ASP:OD2	17:Q:157:MET:C	2.05	0.97
15:O:433:VAL:HG12	17:Q:144:VAL:HG12	1.47	0.97
15:O:475:ARG:HD3	16:P:367:PHE:CZ	2.00	0.97
15:O:583:GLU:OE1	15:O:584:ARG:HG2	1.64	0.97
1:A:920:PHE:HB3	1:A:921:PRO:HD3	1.45	0.97
2:B:155:VAL:CG2	17:Q:359:MET:CE	2.43	0.97
9:I:37:TYR:HB3	9:I:38:PRO:HD3	1.43	0.97
15:O:298:ASP:OD1	17:Q:158:THR:HA	1.65	0.97
15:O:433:VAL:HB	17:Q:144:VAL:HG11	1.00	0.97
15:O:248:PRO:HD2	15:O:307:PHE:HZ	1.17	0.97
17:Q:136:LYS:CB	17:Q:304:HIS:CD2	2.41	0.97
1:A:920:PHE:O	1:A:922:CYS:N	1.97	0.96
14:N:95:ILE:HD11	14:N:136:VAL:CG2	1.94	0.96
16:P:280:ASP:O	16:P:281:ILE:CD1	2.11	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:586:LYS:HZ3	16:P:322:ARG:NH2	1.36	0.96
9:I:37:TYR:HB3	9:I:38:PRO:HD2	1.46	0.96
15:O:348:HIS:CD2	15:O:349:GLY:N	2.31	0.96
15:O:659:LEU:C	15:O:663:LEU:HG	1.87	0.96
3:C:151:THR:HG23	3:C:155:GLU:OE1	1.63	0.96
13:M:45:LYS:HE2	13:M:49:ASP:N	1.41	0.96
16:P:143:THR:HG23	16:P:236:MET:HE1	1.46	0.96
16:P:157:HIS:NE2	16:P:158:MET:HE2	1.79	0.96
16:P:262:LEU:O	16:P:264:PRO:CD	2.13	0.96
16:P:496:GLU:O	16:P:500:ASP:N	1.97	0.96
15:O:14:UNK:CB	15:O:439:LYS:H	1.76	0.96
15:O:356:GLU:HG2	15:O:377:ARG:HH22	1.29	0.96
15:O:390:GLN:OE1	17:Q:151:PRO:HD2	1.62	0.96
15:O:663:LEU:HD23	15:O:742:TRP:CH2	2.01	0.96
17:Q:158:THR:HG23	17:Q:161:ASN:H	1.30	0.96
17:Q:277:ILE:CD1	17:Q:278:TYR:HE1	1.65	0.96
1:A:104:PHE:HB2	1:A:238:MET:HG3	1.48	0.96
5:E:127:ILE:CD1	5:E:132:ILE:HD11	1.96	0.96
15:O:472:ARG:NH2	17:Q:200:THR:CG2	2.00	0.96
15:O:475:ARG:CD	16:P:367:PHE:CE2	2.49	0.96
17:Q:310:ILE:CG2	17:Q:363:GLU:OE1	2.13	0.96
1:A:591:ARG:HH21	1:A:631:ASP:CG	1.74	0.96
2:B:77:LYS:HE2	2:B:93:ASN:CB	1.95	0.96
15:O:394:VAL:HA	17:Q:141:TRP:HD1	1.30	0.96
15:O:771:ILE:HD13	16:P:105:LEU:HD22	1.48	0.96
16:P:183:LYS:HG3	16:P:189:LYS:HZ1	1.28	0.96
16:P:340:GLN:CG	16:P:341:ARG:N	2.23	0.96
15:O:604:ILE:HA	15:O:732:LEU:HD22	1.48	0.96
15:O:722:TRP:CZ2	16:P:262:LEU:CD2	2.46	0.96
16:P:412:LYS:O	16:P:415:LYS:HB3	1.65	0.96
16:P:469:PRO:CB	16:P:470:PRO:HD3	1.95	0.96
1:A:591:ARG:NH2	1:A:631:ASP:CG	2.24	0.96
15:O:24:UNK:CA	17:Q:314:TRP:CH2	2.48	0.96
15:O:194:ARG:CG	15:O:197:ARG:HH12	1.77	0.96
15:O:722:TRP:CE3	16:P:264:PRO:HD3	2.00	0.96
15:O:768:TYR:CE2	16:P:145:ASN:CG	2.34	0.96
16:P:116:ILE:HA	16:P:119:LEU:HD12	1.45	0.96
16:P:289:ARG:O	16:P:291:ASP:OD1	1.84	0.96
19:S:28:DT:O4	20:T:27:DA:N6	1.98	0.96
13:M:129:GLY:HA2	13:M:136:LYS:HD2	1.47	0.96
15:O:309:PRO:CG	15:O:365:TRP:NE1	2.29	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:37:TYR:O	9:I:40:SER:O	1.82	0.95
15:O:650:LEU:HB3	16:P:242:PHE:CD2	2.01	0.95
16:P:157:HIS:CE1	16:P:158:MET:HG2	1.98	0.95
16:P:184:TRP:HE1	16:P:190:MET:HB2	1.24	0.95
16:P:315:ASN:O	16:P:319:SER:CB	2.14	0.95
16:P:154:LEU:C	16:P:156:LEU:HD12	1.92	0.95
16:P:497:GLN:HG2	16:P:498:LEU:N	1.81	0.95
9:I:27:ASN:H	9:I:39:LYS:HB2	0.79	0.95
15:O:273:ARG:HH12	15:O:274:ILE:HG23	1.30	0.95
15:O:440:HIS:CE1	15:O:481:PHE:CE1	2.55	0.95
17:Q:279:SER:C	17:Q:301:SER:HB2	1.91	0.95
17:Q:294:VAL:HG22	17:Q:295:PRO:HD3	1.43	0.95
1:A:781:LEU:CB	1:A:786:TYR:CZ	2.49	0.95
9:I:30:CYS:HB3	9:I:33:CYS:SG	2.03	0.95
14:N:25:ILE:CG2	14:N:26:PRO:HD3	1.96	0.95
16:P:104:PHE:CE1	16:P:211:TYR:HB2	2.00	0.95
16:P:104:PHE:HD1	16:P:211:TYR:CD1	1.83	0.95
16:P:143:THR:CB	16:P:236:MET:CE	2.44	0.95
17:Q:282:SER:N	17:Q:301:SER:O	1.99	0.95
7:G:245:VAL:HG22	7:G:246:ASP:N	1.78	0.95
16:P:104:PHE:CG	16:P:211:TYR:HB2	2.01	0.95
16:P:219:ILE:CD1	17:Q:207:ASN:HA	1.94	0.95
16:P:494:SER:C	16:P:496:GLU:H	1.66	0.95
17:Q:381:ARG:C	17:Q:384:VAL:CG2	2.32	0.95
2:B:77:LYS:CG	2:B:93:ASN:HB2	1.97	0.95
15:O:221:ARG:CG	15:O:227:LEU:HD22	1.97	0.95
15:O:347:LEU:HD22	17:Q:152:ILE:CA	1.97	0.95
16:P:104:PHE:CZ	16:P:155:GLN:CD	2.45	0.95
16:P:366:TYR:OH	17:Q:215:THR:O	1.85	0.95
16:P:375:LEU:HD12	17:Q:231:LEU:HD21	1.49	0.95
1:A:116:HIS:CE1	1:A:185:ARG:HB3	1.99	0.95
1:A:461:GLU:CD	1:A:1618:THR:HB	1.90	0.95
15:O:319:ASP:OD1	15:O:348:HIS:CE1	2.19	0.95
15:O:347:LEU:CD2	17:Q:152:ILE:CG1	2.44	0.95
15:O:585:GLU:O	15:O:588:SER:N	1.99	0.95
17:Q:280:SER:HG	17:Q:300:GLY:C	1.75	0.95
15:O:569:VAL:CG2	16:P:478:ARG:HA	1.95	0.95
15:O:663:LEU:H	15:O:663:LEU:HD12	1.30	0.95
16:P:337:SER:HA	16:P:448:LYS:HE2	1.46	0.95
16:P:343:THR:CB	16:P:347:SER:H	1.78	0.95
16:P:378:LEU:CD1	17:Q:234:LYS:C	2.39	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1163:GLU:O	1:A:1167:ARG:HB3	1.67	0.94
2:B:77:LYS:HG3	2:B:93:ASN:HB2	1.48	0.94
10:J:10:CYS:HB3	10:J:45:CYS:SG	2.07	0.94
15:O:260:LEU:HD11	15:O:272:PHE:N	1.81	0.94
15:O:299:ASP:HB3	17:Q:159:TYR:HB2	1.45	0.94
16:P:263:PRO:CB	16:P:266:PHE:CE2	2.49	0.94
15:O:440:HIS:CE1	15:O:481:PHE:CZ	2.55	0.94
15:O:706:GLU:CG	16:P:438:PHE:CB	2.45	0.94
16:P:357:TYR:HE2	17:Q:203:SER:C	1.75	0.94
16:P:419:LEU:HD11	17:Q:237:ALA:HB3	1.46	0.94
17:Q:352:TRP:HB2	17:Q:358:PHE:CZ	1.78	0.94
1:A:784:SER:O	1:A:789:SER:CB	2.16	0.94
15:O:421:ILE:HA	15:O:441:ASP:HA	1.49	0.94
16:P:106:LYS:CE	16:P:203:TRP:HH2	1.78	0.94
16:P:146:ASP:C	16:P:148:PRO:HD2	1.93	0.94
17:Q:362:ALA:O	17:Q:364:VAL:N	2.00	0.94
1:A:721:LYS:HG2	8:H:94:ASP:O	1.66	0.94
15:O:323:ASN:O	15:O:348:HIS:CB	2.15	0.94
15:O:757:GLN:O	15:O:760:ILE:HG23	1.67	0.94
17:Q:383:PHE:HZ	17:Q:398:ASP:OD1	1.34	0.94
16:P:263:PRO:HB2	16:P:266:PHE:CE2	2.01	0.94
17:Q:354:LEU:HG	17:Q:359:MET:H	1.31	0.94
15:O:446:ASP:OD1	15:O:447:THR:N	2.01	0.94
15:O:573:GLU:HG2	15:O:574:TRP:H	1.33	0.94
15:O:662:LEU:HD23	15:O:662:LEU:H	1.27	0.94
16:P:104:PHE:CE1	16:P:215:LEU:HD21	2.02	0.94
16:P:108:PHE:CE2	16:P:137:TRP:CZ3	2.56	0.94
17:Q:158:THR:O	17:Q:159:TYR:C	2.11	0.94
13:M:15:VAL:HG22	13:M:90:LEU:HD12	1.49	0.94
13:M:45:LYS:HE3	13:M:48:LYS:HB3	1.46	0.94
15:O:273:ARG:HB3	15:O:287:SER:H	1.32	0.94
15:O:309:PRO:HD2	15:O:365:TRP:CD2	2.03	0.94
15:O:614:GLU:OE2	15:O:668:SER:O	1.86	0.94
16:P:104:PHE:HD1	16:P:212:VAL:N	1.66	0.94
16:P:200:PRO:HB3	16:P:203:TRP:CD1	2.02	0.94
16:P:494:SER:OG	16:P:497:GLN:CA	2.16	0.94
17:Q:352:TRP:CZ3	17:Q:357:PRO:HG2	2.02	0.94
15:O:194:ARG:HG2	15:O:197:ARG:HH12	1.01	0.94
15:O:768:TYR:HB2	16:P:145:ASN:HD21	1.29	0.94
17:Q:25:ASN:C	17:Q:29:ARG:HD3	1.93	0.94
15:O:222:GLN:C	15:O:223:ASN:OD1	2.10	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:369:PHE:CZ	15:O:431:ASP:HA	2.03	0.93
16:P:184:TRP:CD1	16:P:190:MET:CB	2.51	0.93
16:P:378:LEU:HD13	17:Q:234:LYS:CB	1.98	0.93
17:Q:200:THR:O	17:Q:203:SER:OG	1.84	0.93
17:Q:285:VAL:HG21	17:Q:302:ARG:CZ	1.94	0.93
15:O:323:ASN:OD1	17:Q:155:GLN:CG	2.15	0.93
15:O:698:LYS:HE2	16:P:126:PRO:HD2	1.51	0.93
16:P:104:PHE:CG	16:P:211:TYR:HD1	1.86	0.93
9:I:17:LEU:HD21	9:I:37:TYR:HE2	1.33	0.93
15:O:347:LEU:HD22	17:Q:152:ILE:HA	1.47	0.93
15:O:596:ILE:CG2	16:P:317:MET:HE1	1.98	0.93
1:A:781:LEU:HB2	1:A:786:TYR:CZ	2.03	0.93
9:I:28:VAL:HG23	9:I:38:PRO:HD3	1.48	0.93
15:O:214:LEU:HD13	15:O:263:ILE:HD13	1.48	0.93
15:O:588:SER:HB3	16:P:512:ARG:NH1	1.81	0.93
15:O:641:TRP:NE1	15:O:653:SER:CA	2.31	0.93
16:P:207:LEU:C	16:P:209:ASN:H	1.75	0.93
16:P:357:TYR:CE2	17:Q:203:SER:HA	2.02	0.93
15:O:291:PRO:O	15:O:292:LEU:HD23	1.69	0.93
15:O:353:ASP:CB	17:Q:28:SER:C	2.15	0.93
17:Q:21:TYR:HE2	17:Q:124:GLU:CD	1.76	0.93
1:A:116:HIS:HE1	1:A:185:ARG:CD	1.77	0.93
1:A:784:SER:C	1:A:789:SER:CB	2.40	0.93
15:O:390:GLN:HB2	17:Q:151:PRO:CG	1.98	0.93
15:O:393:VAL:O	15:O:394:VAL:HG22	1.67	0.93
15:O:604:ILE:HG12	15:O:732:LEU:HD21	1.51	0.93
15:O:715:TYR:CD1	15:O:734:LYS:HE2	2.03	0.93
15:O:722:TRP:CH2	16:P:262:LEU:O	2.22	0.93
17:Q:372:HIS:CE1	17:Q:407:HIS:CD2	2.57	0.93
15:O:347:LEU:CB	17:Q:152:ILE:C	2.40	0.93
15:O:586:LYS:HZ1	16:P:322:ARG:HH22	1.07	0.93
15:O:696:PHE:CB	15:O:711:LEU:CD1	2.32	0.93
17:Q:245:VAL:HG13	17:Q:250:LEU:HG	0.95	0.93
17:Q:277:ILE:HG12	17:Q:278:TYR:CE1	2.03	0.93
1:A:416:ARG:CD	1:A:419:ILE:HG12	1.98	0.93
15:O:475:ARG:HD3	16:P:367:PHE:CE2	2.03	0.93
1:A:1298:ASP:HB3	1:A:1301:GLU:HG3	1.50	0.93
15:O:399:TRP:HE1	17:Q:134:PRO:HG2	1.29	0.93
15:O:693:PHE:HD2	15:O:746:ARG:N	1.66	0.93
15:O:12:UNK:CB	15:O:439:LYS:HZ2	1.75	0.93
15:O:440:HIS:HD1	15:O:481:PHE:HZ	0.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:593:VAL:HB	16:P:320:PHE:CD2	2.04	0.93
15:O:693:PHE:CD2	15:O:746:ARG:N	2.36	0.93
16:P:104:PHE:HB2	16:P:211:TYR:CG	2.03	0.93
16:P:337:SER:O	16:P:341:ARG:NH2	2.01	0.93
5:E:100:ILE:HG23	5:E:105:PHE:HD2	1.33	0.92
15:O:322:GLY:HA3	17:Q:157:MET:HG3	1.51	0.92
16:P:421:ARG:C	16:P:422:GLU:OE1	2.12	0.92
1:A:417:ARG:NH1	1:A:420:PHE:CB	2.31	0.92
2:B:819:ASP:OD1	2:B:820:PRO:HD3	1.68	0.92
15:O:511:ILE:HG22	15:O:513:THR:H	1.32	0.92
17:Q:207:ASN:ND2	19:S:13:DA:OP1	2.01	0.92
15:O:471:MET:SD	15:O:542:ARG:NH1	2.41	0.92
15:O:475:ARG:HH21	15:O:496:THR:CG2	1.81	0.92
16:P:294:HIS:HB2	20:T:48:DA:H62	1.29	0.92
1:A:530:TRP:CB	1:A:531:PRO:CD	2.22	0.92
7:G:245:VAL:CG2	7:G:246:ASP:H	1.81	0.92
15:O:187:ILE:C	15:O:199:GLY:HA3	1.94	0.92
15:O:590:GLY:CA	16:P:320:PHE:CE1	2.49	0.92
16:P:371:GLU:O	16:P:374:THR:HB	1.68	0.92
17:Q:208:TYR:HA	17:Q:211:ARG:HD3	1.48	0.92
1:A:102:CYS:CB	1:A:105:CYS:SG	2.58	0.92
15:O:352:PHE:C	15:O:354:PRO:CD	2.42	0.92
15:O:581:ALA:HB1	15:O:585:GLU:HB3	1.32	0.92
16:P:344:THR:OG1	16:P:438:PHE:N	1.93	0.92
13:M:371:VAL:HA	13:M:394:ILE:O	1.69	0.92
15:O:23:UNK:C	17:Q:314:TRP:CZ3	2.52	0.92
15:O:309:PRO:CD	15:O:365:TRP:CD2	2.53	0.92
15:O:398:ALA:HA	17:Q:128:TRP:CH2	2.04	0.92
16:P:419:LEU:CD1	17:Q:237:ALA:HB3	2.00	0.92
17:Q:349:ILE:CD1	17:Q:368:TYR:CD1	2.52	0.92
1:A:721:LYS:CB	1:A:722:PRO:HD3	1.83	0.92
15:O:214:LEU:CD1	15:O:263:ILE:HD13	1.98	0.92
15:O:698:LYS:HB3	16:P:125:PHE:CD1	2.04	0.92
9:I:3:VAL:CG2	9:I:43:SER:OG	2.17	0.92
15:O:205:TYR:CE2	15:O:229:ARG:NH1	2.38	0.92
16:P:369:TRP:HH2	16:P:377:PHE:CE1	1.87	0.92
8:H:111:LEU:HD23	8:H:128:ASN:HB3	1.52	0.92
16:P:354:LYS:CG	16:P:362:THR:CG2	2.28	0.92
16:P:378:LEU:CD2	17:Q:234:LYS:HB3	2.00	0.92
1:A:464:GLU:O	1:A:468:ARG:CB	2.18	0.92
15:O:298:ASP:OD1	17:Q:159:TYR:N	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:155:GLN:CG	20:T:44:DC:H4'	1.99	0.92
16:P:235:GLY:N	16:P:289:ARG:HB2	1.85	0.92
9:I:37:TYR:CB	9:I:38:PRO:CD	2.46	0.91
13:M:45:LYS:NZ	13:M:49:ASP:C	2.28	0.91
15:O:24:UNK:HA	17:Q:314:TRP:HH2	1.14	0.91
15:O:309:PRO:CG	15:O:365:TRP:CE2	2.52	0.91
15:O:586:LYS:HZ2	16:P:322:ARG:NH2	1.68	0.91
16:P:183:LYS:CD	16:P:189:LYS:NZ	2.32	0.91
16:P:205:ILE:O	16:P:207:LEU:N	2.02	0.91
15:O:216:ILE:N	15:O:234:THR:OG1	2.03	0.91
15:O:395:GLN:CG	15:O:397:LYS:H	1.82	0.91
15:O:401:ASN:H	15:O:419:ARG:HG2	1.36	0.91
15:O:653:SER:O	15:O:748:GLU:CB	2.17	0.91
17:Q:274:MET:O	17:Q:277:ILE:HG23	1.70	0.91
17:Q:353:VAL:HA	17:Q:358:PHE:CD1	1.18	0.91
17:Q:381:ARG:O	17:Q:384:VAL:CG2	2.18	0.91
15:O:186:TYR:CE2	15:O:512:LEU:CD2	2.47	0.91
15:O:298:ASP:OD2	17:Q:158:THR:N	2.02	0.91
15:O:394:VAL:HA	17:Q:141:TRP:CD1	2.05	0.91
15:O:399:TRP:CD1	17:Q:134:PRO:CB	2.53	0.91
16:P:235:GLY:N	16:P:289:ARG:CB	2.33	0.91
17:Q:354:LEU:CB	17:Q:359:MET:N	2.33	0.91
16:P:421:ARG:O	16:P:422:GLU:C	2.13	0.91
17:Q:383:PHE:CZ	17:Q:388:LYS:HG2	2.04	0.91
9:I:28:VAL:H	9:I:37:TYR:CB	1.82	0.91
15:O:269:PHE:CZ	15:O:292:LEU:HD11	2.05	0.91
15:O:358:SER:HB2	17:Q:194:GLY:CA	1.95	0.91
15:O:641:TRP:HD1	15:O:653:SER:HB3	1.29	0.91
15:O:725:VAL:HG13	15:O:726:SER:H	1.35	0.91
15:O:779:ASP:C	16:P:199:LEU:HD21	1.95	0.91
1:A:530:TRP:CE3	1:A:531:PRO:HD3	2.05	0.91
1:A:669:LEU:N	1:A:787:GLY:HA2	1.85	0.91
15:O:323:ASN:OD1	17:Q:155:GLN:HG3	1.69	0.91
15:O:722:TRP:CH2	16:P:262:LEU:CD1	2.53	0.91
16:P:247:ILE:HD11	16:P:286:LEU:HD12	0.93	0.91
17:Q:24:ILE:O	17:Q:28:SER:CB	2.19	0.91
16:P:284:LEU:CD1	16:P:305:ARG:HH11	1.84	0.91
13:M:80:LEU:O	13:M:88:ILE:HA	1.69	0.91
15:O:217:ALA:HB3	15:O:229:ARG:NH1	1.85	0.91
16:P:356:VAL:CG1	16:P:358:PRO:HG3	2.01	0.91
2:B:819:ASP:H	2:B:820:PRO:HD3	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:206:ALA:HA	15:O:214:LEU:HD23	1.53	0.91
15:O:348:HIS:HD2	15:O:349:GLY:H	1.13	0.91
16:P:246:GLU:O	16:P:285:THR:CA	2.18	0.91
15:O:656:HIS:HB3	15:O:747:LEU:C	1.92	0.90
15:O:760:ILE:HG12	16:P:138:LEU:HB3	1.53	0.90
15:O:659:LEU:HB2	15:O:742:TRP:CZ2	2.06	0.90
16:P:100:ALA:HB1	16:P:211:TYR:HE2	1.34	0.90
16:P:101:LYS:NZ	16:P:152:LEU:CA	2.34	0.90
16:P:385:PHE:CE2	17:Q:212:HIS:HD2	1.83	0.90
17:Q:21:TYR:CE2	17:Q:124:GLU:CG	2.54	0.90
17:Q:281:LYS:C	17:Q:301:SER:O	2.13	0.90
15:O:273:ARG:HG3	15:O:274:ILE:N	1.84	0.90
15:O:740:ILE:O	15:O:744:LEU:HD13	1.69	0.90
1:A:464:GLU:CG	1:A:469:LYS:HD3	2.00	0.90
15:O:221:ARG:CG	15:O:227:LEU:CD2	2.49	0.90
15:O:344:ILE:HD12	15:O:346:ASN:H	1.37	0.90
1:A:406:LEU:HD23	1:A:416:ARG:NE	1.87	0.90
16:P:211:TYR:CE1	16:P:212:VAL:HG23	2.05	0.90
7:G:96:SER:O	7:G:98:GLU:C	2.15	0.90
13:M:45:LYS:HE3	13:M:48:LYS:CB	2.02	0.90
15:O:472:ARG:HH22	17:Q:200:THR:H	1.14	0.90
15:O:592:LEU:HD11	16:P:512:ARG:CZ	2.00	0.90
15:O:623:LEU:HD12	15:O:668:SER:CB	2.01	0.90
16:P:113:LYS:O	16:P:116:ILE:HG13	1.71	0.90
16:P:419:LEU:CD1	17:Q:237:ALA:HB1	1.99	0.90
1:A:15:ASP:HB2	2:B:1190:SER:HB2	1.53	0.90
1:A:721:LYS:NZ	8:H:93:TYR:O	2.05	0.90
15:O:700:LEU:HD11	15:O:711:LEU:HA	1.51	0.90
16:P:247:ILE:CG2	16:P:302:ALA:CB	2.26	0.90
16:P:369:TRP:CZ3	17:Q:219:LEU:HD11	2.07	0.90
17:Q:200:THR:OG1	17:Q:203:SER:OG	1.90	0.90
2:B:341:SER:HB3	2:B:342:PRO:HD2	0.91	0.90
2:B:479:GLN:HG3	19:S:39:DT:O2	1.70	0.90
2:B:1139:LYS:O	2:B:1142:LEU:N	2.03	0.90
15:O:378:SER:HB3	15:O:397:LYS:HG2	1.54	0.90
16:P:184:TRP:CZ2	16:P:192:TYR:CD2	2.59	0.90
16:P:341:ARG:NH1	16:P:341:ARG:HG2	1.81	0.90
15:O:722:TRP:HH2	16:P:262:LEU:CD1	1.84	0.90
16:P:100:ALA:HB1	16:P:211:TYR:CE2	2.07	0.90
16:P:148:PRO:O	16:P:151:GLU:N	2.05	0.90
16:P:200:PRO:CB	16:P:203:TRP:CB	2.48	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:417:PHE:CE2	17:Q:236:PHE:CE2	2.57	0.90
17:Q:247:ILE:HG21	17:Q:278:TYR:CD2	2.07	0.90
1:A:920:PHE:HE1	1:A:927:ALA:HA	1.37	0.90
15:O:181:ARG:O	15:O:182:LEU:HG	1.73	0.90
15:O:324:TRP:CD1	15:O:348:HIS:CG	2.59	0.90
15:O:389:TRP:O	15:O:390:GLN:CD	2.14	0.90
15:O:702:LEU:CD2	16:P:125:PHE:CE2	2.55	0.90
16:P:362:THR:HA	16:P:365:ASP:CG	1.97	0.90
1:A:668:GLY:N	1:A:787:GLY:O	2.05	0.89
15:O:10:UNK:O	17:Q:141:TRP:HB2	1.71	0.89
16:P:239:PHE:CE1	16:P:246:GLU:CG	2.51	0.89
1:A:116:HIS:CE1	1:A:185:ARG:HB2	2.03	0.89
15:O:694:ILE:HG13	15:O:695:GLY:N	1.88	0.89
16:P:378:LEU:HD13	17:Q:234:LYS:HB2	1.51	0.89
1:A:62:CYS:HB3	1:A:65:CYS:SG	2.12	0.89
15:O:203:ILE:O	15:O:216:ILE:HA	1.73	0.89
15:O:589:ILE:HG23	16:P:316:TRP:HE3	1.35	0.89
16:P:104:PHE:CD1	16:P:212:VAL:N	2.40	0.89
17:Q:396:ASP:O	17:Q:397:ARG:HG3	1.72	0.89
15:O:10:UNK:CB	17:Q:142:ARG:N	2.36	0.89
16:P:157:HIS:NE2	16:P:158:MET:CG	2.33	0.89
16:P:200:PRO:HB2	16:P:203:TRP:HB2	1.51	0.89
16:P:209:ASN:CG	16:P:210:TYR:N	2.16	0.89
15:O:574:TRP:CH2	16:P:484:ALA:HB1	2.07	0.89
15:O:590:GLY:HA2	16:P:320:PHE:CE2	2.08	0.89
15:O:715:TYR:HE1	15:O:734:LYS:CD	1.85	0.89
16:P:101:LYS:HG3	16:P:210:TYR:OH	1.71	0.89
15:O:431:ASP:CG	15:O:432:PRO:CD	2.45	0.89
16:P:136:ILE:HD12	16:P:168:ALA:HB2	1.54	0.89
16:P:154:LEU:HD13	16:P:154:LEU:H	1.37	0.89
17:Q:354:LEU:HD12	17:Q:358:PHE:C	1.97	0.89
1:A:912:VAL:CG1	1:A:913:PRO:HD3	2.03	0.89
16:P:104:PHE:HZ	16:P:215:LEU:HD21	1.14	0.89
16:P:498:LEU:O	16:P:502:ILE:HG12	1.73	0.89
1:A:406:LEU:HD12	1:A:407:GLN:H	1.32	0.89
9:I:27:ASN:HA	9:I:37:TYR:H	0.91	0.89
15:O:176:PRO:HD2	17:Q:196:GLU:C	1.97	0.89
16:P:258:MET:HA	16:P:262:LEU:HB2	1.55	0.89
16:P:372:GLU:O	16:P:373:GLU:C	2.16	0.89
17:Q:133:LYS:HB3	17:Q:134:PRO:HD2	1.55	0.89
17:Q:355:THR:O	17:Q:359:MET:CG	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:301:GLN:O	15:O:320:ILE:CG1	2.20	0.89
15:O:693:PHE:HB3	15:O:746:ARG:O	1.72	0.89
16:P:223:ASN:CG	16:P:224:GLY:N	2.00	0.89
3:C:151:THR:CG2	3:C:155:GLU:HB3	2.03	0.88
15:O:260:LEU:CD2	15:O:273:ARG:HA	1.89	0.88
15:O:672:ILE:HD12	15:O:734:LYS:HZ1	1.00	0.88
15:O:746:ARG:HH21	16:P:173:SER:CB	1.87	0.88
16:P:419:LEU:HG	17:Q:237:ALA:HB2	1.56	0.88
17:Q:24:ILE:C	17:Q:28:SER:HG	1.79	0.88
16:P:492:ALA:O	16:P:493:ILE:HD12	1.71	0.88
17:Q:352:TRP:HE3	17:Q:357:PRO:HG2	1.04	0.88
15:O:202:ILE:H	15:O:202:ILE:HD12	1.34	0.88
15:O:604:ILE:HA	15:O:732:LEU:CD2	2.04	0.88
15:O:736:ILE:CD1	15:O:739:ASP:OD2	2.20	0.88
16:P:246:GLU:O	16:P:286:LEU:N	2.07	0.88
16:P:363:SER:O	16:P:366:TYR:CB	2.21	0.88
2:B:155:VAL:HG21	17:Q:354:LEU:CD2	2.02	0.88
5:E:3:GLN:O	5:E:7:ARG:CB	2.22	0.88
15:O:442:LEU:CD1	15:O:444:PRO:HD2	2.04	0.88
16:P:115:GLN:HG3	16:P:190:MET:SD	2.14	0.88
16:P:187:THR:HG1	16:P:189:LYS:HG3	1.35	0.88
16:P:340:GLN:HE22	16:P:370:SER:HB3	1.36	0.88
17:Q:245:VAL:HG12	17:Q:250:LEU:HD12	1.53	0.88
15:O:422:ILE:C	15:O:439:LYS:HB2	1.99	0.88
16:P:101:LYS:NZ	16:P:152:LEU:HA	1.88	0.88
16:P:119:LEU:HD11	16:P:165:LEU:HD12	0.90	0.88
16:P:343:THR:O	16:P:345:SER:N	2.07	0.88
16:P:485:SER:O	16:P:489:VAL:HG23	1.74	0.88
17:Q:201:SER:O	17:Q:204:GLU:OE1	1.92	0.88
1:A:920:PHE:C	1:A:922:CYS:H	1.80	0.88
1:A:1655:ASP:OD2	7:G:106:LYS:NZ	2.07	0.88
9:I:27:ASN:N	9:I:39:LYS:CB	2.30	0.88
15:O:194:ARG:HA	15:O:197:ARG:HH21	1.33	0.88
15:O:307:PHE:HD1	15:O:315:PHE:HE2	0.98	0.88
17:Q:158:THR:HG22	17:Q:161:ASN:HB2	1.55	0.88
17:Q:298:GLN:C	17:Q:299:THR:HG22	1.98	0.88
17:Q:302:ARG:NH2	17:Q:303:THR:HG23	1.87	0.88
1:A:530:TRP:O	1:A:532:GLY:N	2.06	0.88
15:O:400:SER:HA	15:O:419:ARG:HD3	1.54	0.88
15:O:573:GLU:HG3	16:P:495:LYS:HE2	1.55	0.88
16:P:101:LYS:HZ2	16:P:152:LEU:CB	1.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:157:HIS:CD2	16:P:158:MET:HG2	2.08	0.88
16:P:494:SER:CB	16:P:497:GLN:CD	2.46	0.88
17:Q:216:LEU:HB3	17:Q:239:LEU:HD13	1.56	0.88
17:Q:348:LYS:O	17:Q:352:TRP:CD1	2.27	0.88
7:G:74:ASN:HB3	7:G:77:VAL:HG22	1.54	0.88
16:P:330:TRP:CH2	16:P:334:LEU:CD1	2.57	0.88
17:Q:348:LYS:O	17:Q:352:TRP:NE1	2.06	0.88
15:O:508:ILE:HG12	15:O:539:VAL:HG12	1.53	0.88
15:O:702:LEU:CG	16:P:125:PHE:CE2	2.52	0.88
1:A:406:LEU:HB3	1:A:416:ARG:CZ	2.04	0.88
15:O:314:GLN:HG2	15:O:328:ARG:HA	0.89	0.88
15:O:415:LEU:HD21	15:O:451:ILE:HD13	1.56	0.88
16:P:155:GLN:HG2	20:T:44:DC:C4'	2.01	0.88
16:P:315:ASN:OD1	16:P:319:SER:HB2	1.74	0.88
16:P:367:PHE:CZ	17:Q:1:MET:SD	2.68	0.88
9:I:27:ASN:HB2	9:I:36:ILE:C	1.98	0.87
15:O:326:ILE:O	15:O:342:GLN:HG3	1.73	0.87
16:P:184:TRP:HD1	16:P:190:MET:H	1.18	0.87
16:P:287:TRP:HH2	16:P:298:VAL:HG21	1.34	0.87
16:P:362:THR:O	16:P:365:ASP:CG	2.17	0.87
13:M:45:LYS:H	13:M:45:LYS:HD3	1.37	0.87
15:O:696:PHE:HB3	15:O:711:LEU:CD1	1.99	0.87
16:P:199:LEU:N	16:P:200:PRO:CD	2.02	0.87
16:P:247:ILE:HG13	16:P:286:LEU:HB2	1.54	0.87
16:P:431:ASP:O	16:P:434:HIS:O	1.91	0.87
1:A:406:LEU:CD1	1:A:407:GLN:N	2.36	0.87
1:A:789:SER:O	1:A:792:GLY:N	2.08	0.87
2:B:814:ASN:C	2:B:816:ASN:N	2.31	0.87
7:G:237:HIS:O	7:G:244:SER:CB	2.23	0.87
9:I:27:ASN:CB	9:I:36:ILE:CB	2.52	0.87
15:O:347:LEU:HB2	17:Q:152:ILE:CA	2.04	0.87
15:O:351:ILE:HG23	17:Q:157:MET:HE1	1.56	0.87
15:O:641:TRP:CZ3	15:O:644:THR:O	2.26	0.87
16:P:362:THR:CA	16:P:365:ASP:OD1	2.21	0.87
16:P:184:TRP:CD1	16:P:190:MET:CG	2.57	0.87
17:Q:248:LYS:HA	17:Q:248:LYS:CE	2.03	0.87
15:O:214:LEU:O	15:O:236:ILE:HG12	1.75	0.87
15:O:422:ILE:HB	15:O:440:HIS:ND1	1.89	0.87
16:P:274:ILE:O	16:P:278:GLU:HB3	1.74	0.87
1:A:102:CYS:HB3	1:A:105:CYS:SG	2.14	0.87
1:A:116:HIS:HE1	1:A:185:ARG:CG	1.87	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:27:ASN:CB	9:I:37:TYR:N	2.33	0.87
15:O:686:TYR:HB3	15:O:692:THR:CG2	2.04	0.87
17:Q:285:VAL:CG2	17:Q:302:ARG:NE	2.30	0.87
15:O:262:GLY:O	15:O:263:ILE:HG13	1.74	0.87
15:O:438:TRP:HE1	15:O:489:PHE:HB3	1.39	0.87
15:O:568:ILE:CG2	15:O:570:ASP:CB	2.52	0.87
16:P:157:HIS:CE1	16:P:158:MET:HE2	2.08	0.87
17:Q:246:GLN:O	17:Q:247:ILE:C	2.16	0.87
15:O:14:UNK:CB	15:O:439:LYS:N	2.37	0.87
15:O:324:TRP:HE1	15:O:348:HIS:HA	1.39	0.87
2:B:513:LYS:NZ	19:S:43:DC:OP1	2.08	0.87
9:I:27:ASN:CB	9:I:36:ILE:HB	2.05	0.87
13:M:16:GLN:HB3	13:M:90:LEU:O	1.74	0.87
16:P:287:TRP:HZ3	16:P:290:THR:HG22	0.71	0.87
17:Q:182:LYS:N	19:S:10:DG:OP1	2.07	0.87
15:O:18:UNK:O	17:Q:256:GLU:CB	2.22	0.86
15:O:352:PHE:CA	15:O:354:PRO:HD2	2.05	0.86
16:P:123:MET:HB3	16:P:125:PHE:HE2	1.05	0.86
16:P:257:VAL:HG12	16:P:262:LEU:HA	1.57	0.86
17:Q:25:ASN:HA	17:Q:28:SER:OG	1.75	0.86
17:Q:388:LYS:NZ	17:Q:392:LEU:O	2.07	0.86
8:H:115:TYR:HE1	8:H:124:ARG:HG3	1.40	0.86
15:O:273:ARG:NH1	15:O:274:ILE:CG2	2.38	0.86
15:O:326:ILE:HB	15:O:344:ILE:HG21	1.57	0.86
15:O:693:PHE:HB3	15:O:747:LEU:HD22	1.56	0.86
16:P:143:THR:CB	16:P:236:MET:HE1	2.05	0.86
1:A:785:GLN:N	1:A:789:SER:HB3	1.91	0.86
2:B:1121:GLY:O	7:G:239:THR:HB	1.73	0.86
7:G:14:ALA:O	7:G:18:LYS:HB2	1.74	0.86
14:N:94:ASP:C	14:N:96:GLU:H	1.82	0.86
15:O:309:PRO:HD2	15:O:365:TRP:CD1	2.10	0.86
15:O:369:PHE:HZ	15:O:431:ASP:HA	1.38	0.86
15:O:421:ILE:CG2	15:O:439:LYS:HG2	2.03	0.86
15:O:500:ILE:HG23	15:O:501:PRO:HD2	1.57	0.86
16:P:116:ILE:O	16:P:119:LEU:HB2	1.75	0.86
16:P:118:TRP:CZ3	16:P:122:GLU:HG3	2.10	0.86
1:A:721:LYS:CG	8:H:94:ASP:O	2.22	0.86
1:A:781:LEU:HB2	1:A:786:TYR:CE1	2.06	0.86
15:O:438:TRP:HH2	15:O:491:SER:HB2	1.41	0.86
15:O:600:GLU:OE1	16:P:269:TYR:CE1	2.28	0.86
16:P:287:TRP:HZ2	16:P:298:VAL:HG11	0.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:154:LYS:C	17:Q:156:LYS:N	2.30	0.86
17:Q:247:ILE:HG12	17:Q:248:LYS:N	1.90	0.86
1:A:116:HIS:HE1	1:A:185:ARG:HB3	1.35	0.86
1:A:1098:SER:O	1:A:1102:LEU:CB	2.24	0.86
9:I:27:ASN:HB3	9:I:36:ILE:CB	2.06	0.86
15:O:431:ASP:CG	15:O:432:PRO:HD3	1.99	0.86
16:P:341:ARG:HH12	16:P:445:ARG:NH2	1.49	0.86
16:P:417:PHE:HE2	17:Q:236:PHE:HE2	1.20	0.86
1:A:530:TRP:HE3	1:A:531:PRO:HD3	1.41	0.86
15:O:17:UNK:C	15:O:19:UNK:H	1.89	0.86
15:O:623:LEU:HD12	15:O:668:SER:C	1.98	0.86
15:O:641:TRP:NE1	15:O:653:SER:OG	1.94	0.86
16:P:422:GLU:OE1	16:P:422:GLU:N	2.08	0.86
17:Q:295:PRO:C	17:Q:297:PHE:N	2.32	0.86
17:Q:354:LEU:HA	17:Q:359:MET:H	1.40	0.86
1:A:912:VAL:O	1:A:914:ASP:N	2.08	0.86
15:O:369:PHE:CZ	15:O:431:ASP:CA	2.59	0.86
15:O:704:LEU:C	15:O:706:GLU:N	2.22	0.86
16:P:153:LYS:O	16:P:153:LYS:NZ	2.07	0.86
16:P:399:SER:O	16:P:407:LYS:CE	2.23	0.86
16:P:494:SER:HB2	16:P:497:GLN:HB3	1.55	0.86
13:M:170:LYS:O	13:M:172:LEU:N	2.08	0.86
16:P:101:LYS:HZ2	16:P:152:LEU:CD1	1.63	0.86
1:A:67:LEU:HB2	1:A:72:CYS:HB2	1.58	0.86
1:A:464:GLU:HG3	1:A:469:LYS:CD	2.06	0.86
1:A:1476:LEU:HB3	1:A:1480:THR:HG21	1.57	0.86
13:M:150:ASP:OD1	13:M:150:ASP:O	1.94	0.86
15:O:736:ILE:HG22	16:P:267:TYR:HE1	1.41	0.86
16:P:157:HIS:NE2	16:P:158:MET:CE	2.37	0.86
16:P:289:ARG:HG3	16:P:291:ASP:OD1	1.75	0.86
16:P:369:TRP:CE3	17:Q:219:LEU:HD11	2.11	0.86
15:O:273:ARG:CG	15:O:274:ILE:H	1.86	0.86
15:O:475:ARG:HD2	16:P:367:PHE:CE2	2.11	0.86
16:P:155:GLN:CA	20:T:45:DC:OP1	2.23	0.86
16:P:357:TYR:CE2	17:Q:203:SER:C	2.54	0.86
17:Q:248:LYS:N	17:Q:298:GLN:NE2	2.19	0.86
17:Q:393:ILE:O	17:Q:395:LEU:CG	2.22	0.86
2:B:76:GLY:O	2:B:91:LEU:HD21	1.76	0.85
13:M:211:LYS:HG2	13:M:293:ILE:HD11	1.55	0.85
15:O:313:GLN:C	15:O:314:GLN:OE1	2.18	0.85
15:O:314:GLN:HE21	15:O:328:ARG:HB3	0.70	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:546:GLU:OE1	15:O:548:TYR:OH	1.93	0.85
15:O:725:VAL:HB	16:P:450:THR:OG1	1.74	0.85
16:P:137:TRP:HH2	16:P:156:LEU:CD2	1.88	0.85
16:P:200:PRO:HB3	16:P:203:TRP:CG	2.10	0.85
16:P:494:SER:CB	16:P:497:GLN:OE1	2.24	0.85
17:Q:280:SER:O	17:Q:301:SER:O	1.85	0.85
17:Q:349:ILE:CD1	17:Q:368:TYR:CE1	2.59	0.85
19:S:23:DG:N1	20:T:32:DC:N3	2.24	0.85
1:A:372:LYS:HA	1:A:376:GLU:O	1.76	0.85
3:C:242:GLU:OE2	3:C:245:ARG:NH2	2.10	0.85
9:I:3:VAL:HG11	9:I:43:SER:OG	1.76	0.85
15:O:188:GLN:CA	15:O:199:GLY:HA3	2.05	0.85
15:O:702:LEU:HD13	16:P:174:LEU:CB	2.06	0.85
16:P:106:LYS:O	16:P:109:GLN:HB2	1.77	0.85
2:B:341:SER:C	2:B:343:ASP:H	1.81	0.85
15:O:568:ILE:HG21	15:O:570:ASP:HB2	1.56	0.85
16:P:103:LEU:HD22	16:P:203:TRP:CZ3	2.10	0.85
15:O:366:PHE:CE2	15:O:432:PRO:HA	2.11	0.85
15:O:394:VAL:O	15:O:395:GLN:HB2	1.74	0.85
15:O:736:ILE:HG22	16:P:267:TYR:CE1	2.12	0.85
16:P:155:GLN:HE22	16:P:215:LEU:HD21	1.41	0.85
16:P:158:MET:HB2	16:P:192:TYR:OH	1.76	0.85
13:M:166:ARG:O	13:M:169:SER:OG	1.94	0.85
13:M:174:THR:O	13:M:175:ARG:HG2	1.77	0.85
13:M:399:VAL:HB	13:M:400:PRO:CD	2.07	0.85
15:O:422:ILE:HG21	15:O:440:HIS:HE1	1.35	0.85
15:O:433:VAL:HB	17:Q:144:VAL:HB	1.59	0.85
15:O:686:TYR:CG	15:O:692:THR:CG2	2.56	0.85
16:P:94:LYS:N	16:P:206:GLN:C	2.35	0.85
16:P:169:SER:O	16:P:173:SER:N	2.09	0.85
16:P:330:TRP:CZ2	16:P:334:LEU:HD11	2.11	0.85
2:B:479:GLN:HB3	19:S:39:DT:H3	1.40	0.85
13:M:45:LYS:CE	13:M:48:LYS:HB3	2.06	0.85
15:O:363:ILE:HG22	15:O:374:VAL:HG13	1.58	0.85
15:O:399:TRP:NE1	17:Q:134:PRO:CG	2.36	0.85
16:P:419:LEU:HD12	17:Q:237:ALA:CB	1.99	0.85
17:Q:27:ILE:HD11	17:Q:169:PRO:CG	2.06	0.85
1:A:233:CYS:HB3	1:A:238:MET:N	1.92	0.85
3:C:45:SER:HB2	3:C:53:ASN:O	1.77	0.85
14:N:25:ILE:CB	14:N:26:PRO:HD3	2.06	0.85
15:O:312:LEU:HD23	15:O:315:PHE:HE1	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:LEU:CD1	1:A:407:GLN:H	1.90	0.85
1:A:912:VAL:CB	1:A:913:PRO:CD	2.23	0.85
2:B:75:ASP:CB	2:B:77:LYS:HD2	2.06	0.85
2:B:77:LYS:CB	2:B:93:ASN:HB2	2.07	0.85
15:O:323:ASN:C	15:O:348:HIS:CB	2.50	0.85
15:O:383:ILE:HG23	15:O:390:GLN:HE21	1.40	0.85
15:O:654:LEU:HG	15:O:748:GLU:HG3	1.56	0.85
16:P:111:ILE:HG12	16:P:216:GLU:OE2	1.77	0.85
2:B:555:GLN:HE21	2:B:558:VAL:HG11	1.40	0.85
15:O:301:GLN:HB3	15:O:321:LYS:HZ3	1.42	0.85
15:O:705:HIS:O	15:O:706:GLU:HB2	1.75	0.85
16:P:208:PRO:CB	16:P:213:SER:CA	2.54	0.85
16:P:287:TRP:CZ2	16:P:298:VAL:CB	2.60	0.85
17:Q:266:SER:C	17:Q:268:LEU:H	1.84	0.85
19:S:39:DT:H6	19:S:39:DT:H5"	1.39	0.85
2:B:1131:CYS:O	2:B:1163:GLN:N	2.09	0.85
16:P:336:GLU:O	16:P:339:THR:HG23	1.75	0.85
17:Q:294:VAL:HG22	17:Q:295:PRO:CD	2.02	0.85
3:C:120:LEU:HD13	3:C:124:GLU:HB2	1.59	0.84
15:O:205:TYR:OH	15:O:229:ARG:NH1	2.10	0.84
15:O:352:PHE:HB3	15:O:354:PRO:CG	2.07	0.84
15:O:698:LYS:CB	16:P:125:PHE:CE1	2.58	0.84
16:P:101:LYS:HZ2	16:P:152:LEU:CG	1.90	0.84
17:Q:354:LEU:CB	17:Q:358:PHE:C	2.48	0.84
1:A:668:GLY:HA3	1:A:787:GLY:HA2	1.14	0.84
12:L:31:CYS:HB3	12:L:34:CYS:SG	2.16	0.84
1:A:721:LYS:C	1:A:723:TYR:H	1.84	0.84
15:O:382:GLU:OE1	17:Q:144:VAL:CG1	2.25	0.84
16:P:401:GLU:O	16:P:402:MET:HE2	1.76	0.84
17:Q:211:ARG:NH1	17:Q:212:HIS:CE1	2.45	0.84
17:Q:283:ARG:HA	17:Q:302:ARG:HB2	0.84	0.84
15:O:715:TYR:HE1	15:O:734:LYS:CG	1.90	0.84
16:P:147:GLN:NE2	16:P:147:GLN:H	1.75	0.84
16:P:222:PHE:HE2	17:Q:206:ARG:CD	1.91	0.84
16:P:274:ILE:HA	16:P:278:GLU:HB2	1.60	0.84
16:P:289:ARG:O	16:P:291:ASP:N	2.10	0.84
16:P:341:ARG:CB	16:P:445:ARG:HH22	1.89	0.84
17:Q:380:SER:O	17:Q:384:VAL:HG22	1.75	0.84
1:A:921:PRO:HG3	8:H:19:ARG:HG2	0.84	0.84
15:O:309:PRO:CD	15:O:365:TRP:CG	2.59	0.84
15:O:604:ILE:HG12	15:O:732:LEU:HD23	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:218:VAL:HA	7:G:224:PRO:HA	1.56	0.84
15:O:383:ILE:O	15:O:383:ILE:HG22	1.75	0.84
15:O:655:SER:OG	16:P:244:ASN:CB	2.25	0.84
15:O:686:TYR:HD1	15:O:689:GLN:HG3	1.39	0.84
16:P:344:THR:CB	16:P:436:LEU:O	2.25	0.84
16:P:356:VAL:HA	17:Q:211:ARG:HE	1.40	0.84
17:Q:8:LEU:O	17:Q:9:THR:C	2.20	0.84
17:Q:247:ILE:C	17:Q:250:LEU:HB2	2.01	0.84
17:Q:280:SER:OG	17:Q:300:GLY:C	2.21	0.84
17:Q:283:ARG:CB	17:Q:302:ARG:HB2	2.06	0.84
13:M:304:VAL:HG23	13:M:324:ASN:HD21	1.43	0.84
16:P:247:ILE:CD1	16:P:286:LEU:CD1	2.50	0.84
1:A:460:LEU:C	1:A:465:GLY:HA2	2.03	0.84
4:D:47:LYS:NZ	7:G:84:TYR:OH	2.11	0.84
7:G:56:ASN:O	7:G:60:GLY:N	2.11	0.84
15:O:293:TYR:HD1	15:O:295:VAL:HG23	1.43	0.84
15:O:393:VAL:HG11	17:Q:144:VAL:HG22	0.86	0.84
15:O:405:TYR:CE2	15:O:414:ILE:HG23	2.11	0.84
15:O:669:PHE:C	15:O:671:SER:N	2.28	0.84
16:P:198:ILE:HG21	16:P:203:TRP:HB2	1.57	0.84
16:P:357:TYR:N	16:P:358:PRO:HD3	1.89	0.84
16:P:491:PHE:O	16:P:493:ILE:N	2.10	0.84
17:Q:211:ARG:HH12	17:Q:212:HIS:CE1	1.94	0.84
15:O:307:PHE:C	15:O:315:PHE:CB	2.50	0.84
15:O:321:LYS:O	15:O:348:HIS:CE1	2.30	0.84
16:P:185:ILE:HD12	17:Q:208:TYR:OH	1.78	0.84
2:B:75:ASP:C	2:B:77:LYS:N	2.23	0.83
2:B:1152:PHE:HB2	2:B:1163:GLN:HE21	1.43	0.83
5:E:127:ILE:HD13	5:E:132:ILE:HD11	1.58	0.83
9:I:17:LEU:HD13	9:I:28:VAL:HG11	1.58	0.83
15:O:307:PHE:HB3	15:O:315:PHE:CD1	2.00	0.83
15:O:309:PRO:HG2	15:O:365:TRP:CD1	2.13	0.83
15:O:771:ILE:HG22	16:P:109:GLN:CD	1.92	0.83
15:O:329:ILE:HD12	15:O:330:PRO:O	1.77	0.83
15:O:722:TRP:HH2	16:P:262:LEU:HG	1.02	0.83
16:P:184:TRP:HZ2	16:P:192:TYR:HD2	1.24	0.83
17:Q:27:ILE:CD1	17:Q:169:PRO:HB2	2.05	0.83
17:Q:349:ILE:HD13	17:Q:368:TYR:CE1	2.13	0.83
15:O:423:ILE:HD13	17:Q:141:TRP:CZ2	2.14	0.83
15:O:599:LYS:HB3	16:P:272:GLN:NE2	1.92	0.83
16:P:104:PHE:HD1	16:P:212:VAL:H	1.25	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:183:LYS:CD	16:P:189:LYS:HZ1	1.89	0.83
16:P:487:LEU:HD11	16:P:498:LEU:HD11	1.60	0.83
17:Q:143:THR:C	17:Q:144:VAL:HG23	2.03	0.83
1:A:417:ARG:HA	1:A:417:ARG:NE	1.90	0.83
7:G:245:VAL:HG23	7:G:246:ASP:H	1.41	0.83
13:M:299:LEU:HB3	13:M:305:ILE:HD11	1.58	0.83
15:O:302:VAL:HA	15:O:320:ILE:CG1	2.08	0.83
15:O:423:ILE:HG21	17:Q:141:TRP:HH2	0.70	0.83
15:O:433:VAL:HG11	17:Q:144:VAL:HG12	1.58	0.83
15:O:627:GLY:HA2	15:O:630:LEU:HD21	1.60	0.83
16:P:386:LEU:H	16:P:387:PRO:HD2	1.42	0.83
17:Q:285:VAL:CG2	17:Q:302:ARG:NH2	2.35	0.83
15:O:298:ASP:OD1	17:Q:158:THR:CA	2.25	0.83
15:O:611:ILE:CG2	15:O:731:LEU:HD23	2.09	0.83
16:P:118:TRP:CE3	16:P:189:LYS:HB3	2.12	0.83
16:P:351:ASN:O	16:P:355:VAL:HG22	1.79	0.83
16:P:362:THR:CA	16:P:365:ASP:CG	2.52	0.83
1:A:1147:PHE:O	1:A:1151:ASN:ND2	2.12	0.83
2:B:77:LYS:HG3	2:B:93:ASN:CB	2.07	0.83
9:I:3:VAL:HG21	9:I:43:SER:HB2	1.57	0.83
15:O:353:ASP:CG	15:O:354:PRO:HD3	2.03	0.83
16:P:343:THR:OG1	16:P:348:ILE:N	2.11	0.83
17:Q:201:SER:O	17:Q:204:GLU:CD	2.21	0.83
17:Q:248:LYS:CD	17:Q:298:GLN:HE22	1.88	0.83
17:Q:266:SER:O	17:Q:267:GLY:C	2.20	0.83
9:I:30:CYS:HB2	9:I:33:CYS:SG	2.09	0.83
13:M:45:LYS:HZ3	13:M:50:GLU:HG3	1.41	0.83
13:M:56:GLU:OE2	14:N:23:PHE:HE2	1.62	0.83
15:O:750:PRO:C	15:O:752:LEU:H	1.85	0.83
16:P:176:VAL:CG1	16:P:179:CYS:HB3	2.09	0.83
17:Q:124:GLU:CD	17:Q:289:ASN:ND2	2.37	0.83
17:Q:158:THR:HG23	17:Q:161:ASN:N	1.93	0.83
15:O:389:TRP:CH2	17:Q:147:GLN:O	2.31	0.83
17:Q:360:GLU:O	17:Q:361:ASP:HB3	1.76	0.83
15:O:23:UNK:O	17:Q:314:TRP:CE3	2.31	0.83
15:O:174:TRP:O	17:Q:198:LEU:HG	1.79	0.83
15:O:214:LEU:H	15:O:236:ILE:HB	1.42	0.83
15:O:619:GLU:HA	15:O:622:TYR:HD2	1.42	0.83
9:I:27:ASN:HB2	9:I:36:ILE:HA	0.84	0.82
13:M:44:LYS:HE2	14:N:30:LYS:HD2	1.59	0.82
15:O:312:LEU:O	15:O:312:LEU:HD13	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:432:PRO:O	15:O:433:VAL:HG22	1.79	0.82
15:O:456:VAL:HB	15:O:463:LEU:CD1	2.09	0.82
15:O:569:VAL:CG2	16:P:478:ARG:CA	2.56	0.82
16:P:357:TYR:OH	17:Q:203:SER:HB3	1.77	0.82
17:Q:283:ARG:HA	17:Q:302:ARG:CA	2.08	0.82
17:Q:362:ALA:O	17:Q:365:TRP:N	2.12	0.82
1:A:233:CYS:HB3	1:A:238:MET:H	1.44	0.82
15:O:17:UNK:O	15:O:19:UNK:N	2.12	0.82
15:O:421:ILE:HD11	17:Q:138:PHE:HE2	1.34	0.82
15:O:702:LEU:HD21	16:P:123:MET:SD	2.17	0.82
16:P:155:GLN:CG	20:T:44:DC:O3'	2.27	0.82
16:P:166:TYR:HD2	16:P:167:LEU:HD12	1.42	0.82
19:S:23:DG:O6	20:T:31:DC:N4	2.11	0.82
15:O:214:LEU:HG	15:O:242:ILE:HD13	1.60	0.82
15:O:260:LEU:HD22	15:O:273:ARG:O	1.76	0.82
16:P:357:TYR:CZ	17:Q:203:SER:CA	2.54	0.82
17:Q:173:MET:HA	17:Q:173:MET:HE2	1.61	0.82
17:Q:204:GLU:CD	17:Q:205:VAL:N	2.37	0.82
2:B:244:THR:HA	2:B:411:MET:HE3	1.60	0.82
16:P:172:LEU:HD23	16:P:172:LEU:O	1.78	0.82
16:P:274:ILE:HA	16:P:278:GLU:CB	2.10	0.82
17:Q:139:GLU:O	17:Q:141:TRP:N	2.12	0.82
17:Q:245:VAL:HG13	17:Q:250:LEU:CG	1.73	0.82
3:C:151:THR:CG2	3:C:155:GLU:CB	2.58	0.82
13:M:43:LYS:O	13:M:49:ASP:HA	1.79	0.82
1:A:468:ARG:O	2:B:1070:ARG:NH2	2.11	0.82
15:O:5:UNK:CB	15:O:24:UNK:CB	2.58	0.82
16:P:399:SER:OG	16:P:402:MET:CG	2.28	0.82
16:P:490:ASP:HB3	16:P:491:PHE:CE1	2.13	0.82
17:Q:266:SER:OG	17:Q:268:LEU:HB2	1.79	0.82
17:Q:354:LEU:CG	17:Q:358:PHE:C	2.53	0.82
17:Q:388:LYS:CD	17:Q:393:ILE:HB	2.09	0.82
2:B:111:ASP:OD2	2:B:116:ALA:HB2	1.80	0.82
9:I:27:ASN:N	9:I:39:LYS:N	2.20	0.82
15:O:422:ILE:CG2	15:O:440:HIS:HE1	1.91	0.82
15:O:583:GLU:CG	15:O:584:ARG:N	1.95	0.82
16:P:186:CYS:SG	16:P:349:GLY:HA2	2.19	0.82
17:Q:246:GLN:C	17:Q:247:ILE:CD1	2.53	0.82
17:Q:266:SER:C	17:Q:268:LEU:N	2.31	0.82
17:Q:274:MET:HA	17:Q:277:ILE:CG2	2.10	0.82
17:Q:349:ILE:O	17:Q:358:PHE:CZ	2.33	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:269:PHE:HE1	15:O:339:ARG:HD2	1.44	0.82
16:P:315:ASN:O	16:P:319:SER:HB3	1.77	0.82
17:Q:246:GLN:O	17:Q:247:ILE:CD1	2.18	0.82
17:Q:294:VAL:H	17:Q:295:PRO:HD2	1.44	0.82
13:M:38:PHE:H	14:N:118:SER:HB3	1.44	0.82
15:O:345:ASP:O	15:O:346:ASN:OD1	1.96	0.82
15:O:353:ASP:CB	17:Q:31:PHE:HB3	2.10	0.82
15:O:736:ILE:CG2	16:P:267:TYR:HE1	1.92	0.82
15:O:772:ILE:HD12	16:P:138:LEU:CD2	2.09	0.82
17:Q:356:PRO:CD	17:Q:357:PRO:HD2	2.03	0.82
15:O:351:ILE:CG2	17:Q:157:MET:CE	2.02	0.82
15:O:358:SER:CB	17:Q:194:GLY:C	2.50	0.82
15:O:573:GLU:HG2	15:O:574:TRP:N	1.89	0.82
15:O:580:ASN:HB3	16:P:506:LYS:NZ	1.94	0.82
15:O:659:LEU:HD22	15:O:659:LEU:N	1.95	0.82
13:M:45:LYS:HZ1	13:M:49:ASP:C	1.86	0.81
15:O:380:MET:HE2	15:O:394:VAL:CG1	2.08	0.81
15:O:384:ASP:OD2	15:O:387:ASN:HB2	1.79	0.81
16:P:193:PHE:O	16:P:217:GLY:CA	2.28	0.81
16:P:257:VAL:HG12	16:P:262:LEU:HD12	0.83	0.81
1:A:527:PRO:HB3	1:A:534:THR:HA	1.60	0.81
15:O:603:ARG:HH22	16:P:268:PHE:HD1	1.27	0.81
2:B:1120:ILE:HB	13:M:309:GLN:HG2	1.62	0.81
9:I:37:TYR:C	9:I:40:SER:O	2.23	0.81
15:O:214:LEU:N	15:O:236:ILE:HB	1.96	0.81
15:O:323:ASN:C	15:O:348:HIS:HB2	2.04	0.81
15:O:382:GLU:O	15:O:383:ILE:HG13	1.79	0.81
15:O:446:ASP:OD2	15:O:448:THR:HG22	1.81	0.81
15:O:474:LYS:HA	15:O:505:PRO:HD3	1.62	0.81
15:O:694:ILE:CG1	15:O:695:GLY:H	1.92	0.81
15:O:727:PRO:HG3	16:P:265:GLU:CD	2.04	0.81
15:O:756:ILE:O	15:O:760:ILE:HG22	1.81	0.81
16:P:100:ALA:O	16:P:211:TYR:CZ	2.33	0.81
16:P:226:LEU:HD23	16:P:226:LEU:O	1.80	0.81
16:P:362:THR:CA	16:P:365:ASP:OD2	2.28	0.81
16:P:431:ASP:C	16:P:434:HIS:CA	2.53	0.81
16:P:494:SER:OG	16:P:497:GLN:N	2.13	0.81
1:A:83:VAL:HG21	1:A:427:PHE:HE2	1.40	0.81
1:A:912:VAL:HB	1:A:913:PRO:HD2	1.59	0.81
2:B:75:ASP:C	2:B:77:LYS:H	1.85	0.81
16:P:381:MET:HE1	16:P:385:PHE:CD2	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:104:PHE:CD1	16:P:211:TYR:CG	2.68	0.81
16:P:148:PRO:O	16:P:150:GLU:N	2.14	0.81
16:P:469:PRO:HB2	16:P:470:PRO:HD2	1.61	0.81
17:Q:264:SER:O	17:Q:265:SER:CB	2.27	0.81
1:A:62:CYS:CB	1:A:65:CYS:SG	2.69	0.81
1:A:119:ALA:HB2	1:A:334:VAL:HG23	1.63	0.81
2:B:1137:ASP:O	2:B:1140:LYS:CG	2.26	0.81
15:O:702:LEU:HG	16:P:125:PHE:HZ	1.00	0.81
1:A:117:ARG:HB3	1:A:117:ARG:CZ	2.10	0.81
1:A:590:ASN:ND2	2:B:1075:GLU:OE2	2.13	0.81
15:O:293:TYR:CD1	15:O:295:VAL:HG23	2.16	0.81
15:O:772:ILE:CD1	16:P:138:LEU:CD2	2.58	0.81
16:P:119:LEU:CD1	16:P:165:LEU:HD11	2.07	0.81
16:P:158:MET:O	16:P:192:TYR:CE1	2.32	0.81
16:P:343:THR:CB	16:P:347:SER:N	2.41	0.81
15:O:326:ILE:HB	15:O:344:ILE:CG2	2.10	0.81
15:O:715:TYR:HE1	15:O:734:LYS:HG3	1.44	0.81
16:P:193:PHE:HB3	17:Q:208:TYR:CE2	2.16	0.81
3:C:242:GLU:O	3:C:246:ARG:HB2	1.80	0.81
15:O:390:GLN:CG	17:Q:151:PRO:HG2	2.11	0.81
15:O:660:LYS:N	15:O:663:LEU:HD21	1.79	0.81
16:P:257:VAL:HG12	16:P:262:LEU:CA	2.10	0.81
19:S:19:DG:N2	20:T:36:DC:N3	2.25	0.81
1:A:1315:ASN:OD1	1:A:1319:ASN:ND2	2.14	0.81
2:B:118:GLU:CD	17:Q:281:LYS:NZ	2.38	0.81
2:B:415:GLU:HG2	2:B:472:SER:HB2	1.63	0.81
3:C:230:LEU:HB2	3:C:297:HIS:HD2	1.43	0.81
15:O:398:ALA:HA	17:Q:128:TRP:HH2	1.40	0.81
1:A:116:HIS:ND1	1:A:185:ARG:HD3	1.97	0.80
13:M:170:LYS:HA	13:M:170:LYS:CE	2.10	0.80
15:O:354:PRO:O	15:O:355:GLU:C	2.24	0.80
16:P:101:LYS:HD3	16:P:152:LEU:HD12	1.54	0.80
17:Q:204:GLU:CD	17:Q:205:VAL:H	1.90	0.80
15:O:210:THR:C	15:O:212:SER:N	2.39	0.80
15:O:316:ALA:CB	15:O:340:LYS:HD3	2.11	0.80
16:P:357:TYR:CE2	17:Q:203:SER:CA	2.64	0.80
17:Q:27:ILE:HD13	17:Q:169:PRO:HB2	1.59	0.80
17:Q:212:HIS:O	17:Q:215:THR:N	2.14	0.80
15:O:23:UNK:O	17:Q:314:TRP:HZ3	1.59	0.80
15:O:273:ARG:HB3	15:O:287:SER:N	1.97	0.80
15:O:657:SER:OG	15:O:746:ARG:NH1	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:750:PRO:O	15:O:752:LEU:N	2.15	0.80
16:P:284:LEU:CD1	16:P:302:ALA:HB1	2.00	0.80
17:Q:21:TYR:CE2	17:Q:124:GLU:CD	2.60	0.80
15:O:324:TRP:NE1	15:O:348:HIS:HA	1.97	0.80
16:P:219:ILE:HG13	16:P:220:SER:H	1.46	0.80
16:P:378:LEU:HD11	17:Q:234:LYS:CB	2.07	0.80
15:O:310:TRP:HA	15:O:368:HIS:NE2	1.95	0.80
15:O:422:ILE:CD1	15:O:442:LEU:HD23	2.11	0.80
15:O:653:SER:OG	15:O:749:LYS:HG2	1.81	0.80
2:B:819:ASP:OD2	13:M:358:SER:N	2.15	0.80
15:O:596:ILE:HG23	16:P:317:MET:CE	2.11	0.80
15:O:214:LEU:CA	15:O:236:ILE:HB	2.11	0.80
15:O:656:HIS:CB	15:O:748:GLU:N	2.45	0.80
16:P:263:PRO:HG2	16:P:266:PHE:HB2	1.62	0.80
16:P:367:PHE:HZ	17:Q:1:MET:SD	2.05	0.80
2:B:297:VAL:HG11	14:N:101:GLN:HE22	1.46	0.80
15:O:354:PRO:HB2	17:Q:131:TYR:OH	1.82	0.80
15:O:627:GLY:HA2	15:O:630:LEU:CD2	2.12	0.80
16:P:344:THR:O	16:P:345:SER:CB	2.30	0.80
1:A:464:GLU:C	1:A:468:ARG:HB2	2.07	0.80
1:A:592:GLN:HB3	1:A:593:PRO:HD3	0.80	0.80
1:A:998:HIS:HE1	2:B:711:GLN:HA	1.47	0.80
15:O:275:GLU:HB3	15:O:285:MET:HG3	1.63	0.80
15:O:463:LEU:HD12	15:O:463:LEU:O	1.82	0.80
15:O:491:SER:C	15:O:492:LEU:HD12	2.07	0.80
17:Q:125:ARG:HH12	19:S:19:DG:C4'	1.85	0.80
17:Q:283:ARG:C	17:Q:302:ARG:HE	1.90	0.80
1:A:58:LEU:N	1:A:69:GLU:OE2	2.15	0.80
1:A:507:TYR:OH	1:A:641:GLU:OE2	2.00	0.80
13:M:10:ILE:HG13	14:N:73:ASP:HB2	1.64	0.80
13:M:45:LYS:NZ	13:M:50:GLU:HG3	1.97	0.80
15:O:196:TYR:CD1	15:O:197:ARG:N	2.50	0.80
15:O:216:ILE:O	15:O:234:THR:OG1	2.00	0.80
15:O:638:LEU:HD23	15:O:748:GLU:OE2	1.82	0.80
7:G:236:VAL:HA	7:G:245:VAL:HA	1.64	0.79
9:I:27:ASN:HD22	9:I:36:ILE:HG22	1.45	0.79
13:M:151:SER:O	13:M:155:THR:OG1	1.99	0.79
15:O:421:ILE:CD1	17:Q:138:PHE:HE2	1.82	0.79
16:P:176:VAL:HG13	16:P:179:CYS:HB3	1.63	0.79
17:Q:380:SER:O	17:Q:384:VAL:CB	2.30	0.79
2:B:237:ARG:NH1	2:B:401:GLU:OE2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:819:ASP:N	2:B:820:PRO:CD	2.45	0.79
15:O:247:ILE:HG12	15:O:261:VAL:CG2	2.12	0.79
15:O:433:VAL:CG2	17:Q:144:VAL:HB	2.13	0.79
17:Q:349:ILE:O	17:Q:358:PHE:HZ	1.64	0.79
19:S:10:DG:N1	20:T:45:DC:N3	2.26	0.79
1:A:1026:GLN:HE22	1:A:1603:MET:HB2	1.47	0.79
2:B:299:ASP:OD1	2:B:301:PHE:HB3	1.82	0.79
15:O:260:LEU:CD1	15:O:272:PHE:H	1.95	0.79
15:O:351:ILE:HG12	17:Q:162:PHE:CE1	2.17	0.79
15:O:380:MET:HB3	15:O:394:VAL:CG2	2.12	0.79
15:O:569:VAL:HG21	16:P:478:ARG:CA	2.13	0.79
15:O:599:LYS:HD3	16:P:272:GLN:HE21	1.45	0.79
16:P:105:LEU:CD2	16:P:109:GLN:NE2	2.45	0.79
17:Q:354:LEU:HB2	17:Q:358:PHE:C	2.05	0.79
15:O:672:ILE:HD12	15:O:734:LYS:HZ3	1.43	0.79
16:P:193:PHE:HB3	17:Q:208:TYR:HE2	1.46	0.79
16:P:259:GLN:NE2	16:P:259:GLN:O	2.13	0.79
17:Q:208:TYR:HA	17:Q:211:ARG:HD2	1.62	0.79
1:A:406:LEU:HD23	1:A:416:ARG:CD	2.11	0.79
1:A:709:ARG:NH1	1:A:740:THR:O	2.15	0.79
2:B:1138:ALA:C	2:B:1140:LYS:H	1.91	0.79
14:N:25:ILE:CG2	14:N:26:PRO:CD	2.55	0.79
15:O:183:ASP:HB3	15:O:247:ILE:HD12	1.64	0.79
15:O:399:TRP:HD1	17:Q:134:PRO:CG	1.93	0.79
16:P:183:LYS:CG	16:P:189:LYS:NZ	2.44	0.79
16:P:487:LEU:HD12	16:P:488:LEU:N	1.97	0.79
19:S:18:DA:H2'	19:S:19:DG:C8	2.18	0.79
2:B:111:ASP:CG	2:B:116:ALA:CB	2.55	0.79
5:E:127:ILE:HD11	5:E:132:ILE:HG13	0.79	0.79
15:O:398:ALA:HB1	17:Q:134:PRO:HG3	1.63	0.79
15:O:686:TYR:CD2	15:O:692:THR:CG2	2.59	0.79
16:P:386:LEU:H	16:P:387:PRO:CD	1.95	0.79
17:Q:216:LEU:HD22	17:Q:242:ILE:HD12	1.63	0.79
17:Q:273:TRP:O	17:Q:277:ILE:HG22	1.80	0.79
15:O:180:ASN:O	15:O:244:SER:HA	1.82	0.79
15:O:596:ILE:HA	16:P:272:GLN:NE2	1.97	0.79
15:O:654:LEU:HD11	15:O:748:GLU:CG	2.11	0.79
15:O:702:LEU:HD22	16:P:123:MET:SD	2.22	0.79
16:P:222:PHE:CE2	17:Q:206:ARG:CD	2.66	0.79
16:P:419:LEU:HG	17:Q:237:ALA:CB	2.13	0.79
17:Q:21:TYR:HD2	17:Q:124:GLU:HB2	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:15:VAL:HA	13:M:90:LEU:HB2	1.63	0.79
15:O:478:MET:HE2	15:O:497:VAL:HG22	1.63	0.79
16:P:108:PHE:HE2	16:P:137:TRP:CH2	1.94	0.79
16:P:208:PRO:CG	16:P:213:SER:HB3	2.12	0.79
16:P:354:LYS:HZ2	16:P:362:THR:HG22	0.76	0.79
17:Q:283:ARG:CA	17:Q:302:ARG:HB3	1.92	0.79
15:O:241:PRO:HG2	15:O:266:GLU:CD	2.08	0.79
15:O:264:ILE:HG13	15:O:305:PHE:CE2	2.18	0.79
15:O:298:ASP:OD1	17:Q:158:THR:C	2.25	0.79
15:O:353:ASP:HB2	17:Q:28:SER:N	1.96	0.79
15:O:657:SER:HB2	15:O:746:ARG:CD	2.11	0.79
15:O:702:LEU:HA	16:P:123:MET:HE1	1.65	0.79
16:P:431:ASP:O	16:P:431:ASP:OD1	2.01	0.79
17:Q:245:VAL:HG11	17:Q:250:LEU:HD21	1.65	0.79
17:Q:294:VAL:HG23	17:Q:295:PRO:HD3	0.79	0.79
1:A:789:SER:O	1:A:790:LYS:C	2.25	0.79
9:I:3:VAL:CB	9:I:43:SER:OG	2.31	0.79
16:P:123:MET:CB	16:P:125:PHE:CD2	2.66	0.79
16:P:184:TRP:CD1	16:P:190:MET:HG2	2.15	0.79
17:Q:142:ARG:HG3	17:Q:142:ARG:HH11	1.47	0.79
17:Q:383:PHE:HZ	17:Q:398:ASP:CG	1.91	0.79
16:P:387:PRO:O	16:P:388:THR:C	2.25	0.78
1:A:912:VAL:C	1:A:914:ASP:H	1.92	0.78
15:O:54:UNK:HA	15:O:554:ASN:OD1	1.82	0.78
15:O:218:VAL:O	15:O:229:ARG:HG2	1.84	0.78
15:O:307:PHE:O	15:O:315:PHE:CB	2.31	0.78
15:O:596:ILE:CG2	16:P:317:MET:CE	2.61	0.78
16:P:151:GLU:OE2	16:P:154:LEU:HD11	1.82	0.78
16:P:488:LEU:O	16:P:493:ILE:HG23	1.83	0.78
17:Q:354:LEU:CD2	17:Q:359:MET:HA	2.13	0.78
13:M:38:PHE:HE2	14:N:110:LEU:HD22	1.46	0.78
13:M:118:ASP:OD1	13:M:119:THR:N	2.16	0.78
15:O:722:TRP:HE3	16:P:264:PRO:HG3	0.96	0.78
16:P:104:PHE:CE1	16:P:215:LEU:CG	2.66	0.78
17:Q:380:SER:O	17:Q:384:VAL:CG2	2.31	0.78
1:A:417:ARG:CZ	1:A:420:PHE:HB3	2.12	0.78
7:G:96:SER:C	7:G:98:GLU:N	2.38	0.78
16:P:248:SER:O	16:P:249:CYS:HB2	1.84	0.78
15:O:324:TRP:O	15:O:325:SER:OG	2.02	0.78
15:O:656:HIS:CA	15:O:747:LEU:O	2.30	0.78
15:O:736:ILE:HG22	15:O:736:ILE:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:150:GLU:O	16:P:152:LEU:CD2	2.31	0.78
16:P:370:SER:HG	16:P:373:GLU:CD	1.89	0.78
16:P:494:SER:CB	16:P:497:GLN:CB	2.46	0.78
17:Q:208:TYR:CA	17:Q:211:ARG:HG2	2.13	0.78
17:Q:363:GLU:HA	17:Q:366:PHE:HB3	1.62	0.78
20:T:22:DG:H2'	20:T:23:DA:H8	1.49	0.78
13:M:39:ASP:HB2	13:M:54:HIS:O	1.83	0.78
16:P:366:TYR:CZ	17:Q:215:THR:HA	2.14	0.78
17:Q:380:SER:HB2	17:Q:438:PHE:CZ	2.19	0.78
1:A:722:PRO:O	1:A:723:TYR:CB	2.31	0.78
2:B:311:ARG:HH12	9:I:18:GLU:HA	1.49	0.78
15:O:176:PRO:HD3	17:Q:196:GLU:O	1.80	0.78
16:P:151:GLU:CD	16:P:154:LEU:CD1	2.57	0.78
16:P:247:ILE:CD1	16:P:286:LEU:CA	2.25	0.78
16:P:386:LEU:O	16:P:388:THR:HG23	1.82	0.78
17:Q:266:SER:O	17:Q:269:ASP:OD1	2.00	0.78
1:A:410:LYS:O	1:A:413:LEU:HG	1.83	0.78
7:G:97:LYS:H	7:G:97:LYS:HD2	1.47	0.78
9:I:13:CYS:SG	9:I:32:GLN:HB3	2.23	0.78
15:O:344:ILE:HD12	15:O:346:ASN:N	1.97	0.78
15:O:623:LEU:CD1	15:O:668:SER:HB2	2.14	0.78
16:P:104:PHE:CE1	16:P:215:LEU:CD2	2.65	0.78
16:P:341:ARG:HH11	16:P:445:ARG:NH2	1.79	0.78
17:Q:245:VAL:HG11	17:Q:250:LEU:HD11	0.94	0.78
17:Q:354:LEU:HD11	17:Q:359:MET:CA	1.94	0.78
19:S:24:DG:N2	20:T:31:DC:O2	2.16	0.78
2:B:296:ASP:OD2	2:B:379:ARG:NH2	2.17	0.78
9:I:28:VAL:H	9:I:38:PRO:HD2	1.49	0.78
15:O:414:ILE:N	15:O:425:GLY:O	2.16	0.78
16:P:155:GLN:O	20:T:45:DC:H5''	1.84	0.78
1:A:1288:ARG:N	1:A:1476:LEU:O	2.16	0.78
7:G:16:PHE:O	7:G:20:HIS:HB2	1.84	0.78
15:O:17:UNK:C	15:O:19:UNK:N	2.45	0.78
15:O:214:LEU:CA	15:O:236:ILE:CB	2.62	0.78
15:O:722:TRP:CD2	16:P:264:PRO:HG3	2.13	0.78
17:Q:127:PHE:O	17:Q:131:TYR:HD2	1.65	0.78
19:S:28:DT:O2	19:S:29:DT:C4	2.34	0.78
1:A:361:VAL:HG22	2:B:1184:TYR:HD1	1.49	0.77
9:I:27:ASN:N	9:I:39:LYS:H	1.53	0.77
9:I:42:PHE:CZ	9:I:44:ASN:CB	2.67	0.77
15:O:12:UNK:CA	15:O:436:ILE:HD11	2.11	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:143:THR:CG2	16:P:236:MET:HE2	1.85	0.77
16:P:495:LYS:HD3	16:P:496:GLU:OE2	1.84	0.77
17:Q:158:THR:HG23	17:Q:161:ASN:HB2	1.63	0.77
9:I:28:VAL:HG23	9:I:37:TYR:HB3	1.66	0.77
15:O:667:ASP:N	15:O:667:ASP:OD1	2.13	0.77
16:P:158:MET:HE1	16:P:219:ILE:HG23	1.66	0.77
16:P:208:PRO:CB	16:P:213:SER:CB	2.29	0.77
16:P:263:PRO:HG2	16:P:266:PHE:CD2	2.18	0.77
16:P:332:LEU:HD12	16:P:333:SER:N	1.98	0.77
16:P:366:TYR:CE2	17:Q:218:ASP:HB2	2.19	0.77
3:C:151:THR:HG22	3:C:155:GLU:HB3	1.63	0.77
15:O:248:PRO:HD2	15:O:307:PHE:CE2	2.17	0.77
15:O:414:ILE:HB	15:O:425:GLY:C	2.08	0.77
15:O:581:ALA:O	15:O:585:GLU:HB3	1.82	0.77
3:C:32:ASN:OD1	3:C:35:LYS:N	2.15	0.77
15:O:247:ILE:O	15:O:247:ILE:HG22	1.82	0.77
16:P:108:PHE:CE2	16:P:156:LEU:HD23	2.20	0.77
16:P:257:VAL:C	16:P:262:LEU:CD1	2.58	0.77
15:O:205:TYR:HD2	15:O:215:ASN:HB3	1.49	0.77
15:O:499:GLU:HG3	15:O:500:ILE:HD12	1.64	0.77
16:P:158:MET:HB2	16:P:192:TYR:CZ	2.19	0.77
16:P:167:LEU:HD11	16:P:230:ILE:HG23	1.66	0.77
17:Q:212:HIS:O	17:Q:215:THR:HB	1.83	0.77
15:O:260:LEU:HD11	15:O:272:PHE:CA	2.04	0.77
15:O:316:ALA:HB3	15:O:340:LYS:HD3	1.65	0.77
15:O:611:ILE:HG21	15:O:731:LEU:HD23	1.65	0.77
16:P:340:GLN:O	16:P:341:ARG:CB	2.33	0.77
17:Q:381:ARG:O	17:Q:384:VAL:HG22	1.78	0.77
1:A:855:ARG:NH2	1:A:867:ASP:OD1	2.16	0.77
1:A:1288:ARG:HB3	1:A:1476:LEU:HB2	1.65	0.77
3:C:88:ASN:ND2	3:C:94:ASP:OD1	2.17	0.77
8:H:56:THR:HB	8:H:145:ARG:HB3	1.65	0.77
13:M:114:LYS:HE3	13:M:114:LYS:C	2.10	0.77
17:Q:208:TYR:CD1	17:Q:211:ARG:HD3	2.20	0.77
17:Q:410:TYR:CE2	17:Q:414:PHE:HZ	2.03	0.77
15:O:214:LEU:HG	15:O:242:ILE:CD1	2.15	0.77
16:P:101:LYS:HD2	16:P:152:LEU:HD12	0.77	0.77
19:S:39:DT:H5"	19:S:39:DT:C6	2.19	0.77
1:A:1632:GLU:HG3	1:A:1634:LEU:H	1.50	0.77
2:B:1121:GLY:C	7:G:239:THR:O	2.27	0.77
3:C:172:GLN:OE1	3:C:175:GLN:NE2	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:25:ILE:HG22	14:N:26:PRO:HD3	1.65	0.77
15:O:724:LEU:O	15:O:725:VAL:CG1	2.33	0.77
16:P:137:TRP:HH2	16:P:156:LEU:HD21	1.49	0.77
16:P:340:GLN:NE2	16:P:370:SER:HB3	1.99	0.77
16:P:369:TRP:CZ3	16:P:377:PHE:CG	2.73	0.77
16:P:399:SER:N	16:P:410:ARG:NH1	2.33	0.77
17:Q:352:TRP:CE3	17:Q:357:PRO:CG	2.58	0.77
1:A:721:LYS:HD3	8:H:96:VAL:HG23	1.67	0.77
1:A:1270:VAL:HG11	1:A:1489:VAL:HG11	1.66	0.77
2:B:1012:PRO:HG3	3:C:277:ARG:HH12	1.50	0.77
5:E:10:SER:HA	5:E:39:LEU:HD11	1.67	0.77
13:M:45:LYS:CE	13:M:49:ASP:N	2.35	0.77
15:O:174:TRP:C	17:Q:198:LEU:HG	2.09	0.77
15:O:354:PRO:HB3	17:Q:131:TYR:OH	1.85	0.77
15:O:421:ILE:CG1	17:Q:138:PHE:HE2	1.98	0.77
16:P:200:PRO:CA	16:P:203:TRP:HD1	1.97	0.77
16:P:343:THR:C	16:P:345:SER:H	1.93	0.77
17:Q:143:THR:O	17:Q:144:VAL:CG2	2.29	0.77
1:A:1040:ASP:OD1	1:A:1041:ALA:N	2.17	0.76
7:G:96:SER:O	7:G:98:GLU:CA	2.32	0.76
15:O:586:LYS:HZ2	16:P:322:ARG:HH22	1.21	0.76
15:O:592:LEU:CD1	16:P:512:ARG:CZ	2.61	0.76
15:O:694:ILE:HD11	15:O:698:LYS:CD	2.08	0.76
16:P:385:PHE:CZ	17:Q:212:HIS:CD2	2.73	0.76
1:A:920:PHE:CZ	1:A:930:LEU:HD23	2.20	0.76
15:O:422:ILE:CG1	15:O:440:HIS:NE2	2.47	0.76
15:O:656:HIS:CB	15:O:747:LEU:CA	2.44	0.76
19:S:25:DT:O4	20:T:30:DT:N3	2.18	0.76
2:B:1152:PHE:HB2	2:B:1163:GLN:NE2	2.00	0.76
15:O:194:ARG:C	15:O:197:ARG:NH2	2.43	0.76
15:O:211:GLY:O	15:O:242:ILE:HD12	1.85	0.76
15:O:357:LEU:HD12	15:O:377:ARG:CZ	2.15	0.76
15:O:656:HIS:CD2	15:O:747:LEU:N	2.53	0.76
16:P:222:PHE:CE2	17:Q:206:ARG:HD2	2.20	0.76
16:P:284:LEU:HD11	16:P:305:ARG:HE	1.50	0.76
16:P:330:TRP:CE3	16:P:331:ILE:HD13	2.20	0.76
17:Q:26:TYR:N	17:Q:29:ARG:HD3	1.99	0.76
17:Q:410:TYR:CE2	17:Q:414:PHE:CZ	2.74	0.76
1:A:1272:VAL:O	9:I:49:THR:OG1	2.03	0.76
2:B:117:VAL:HG21	17:Q:276:GLN:CG	2.15	0.76
15:O:571:HIS:HB3	15:O:573:GLU:OE1	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:578:PHE:CE1	16:P:312:LEU:HD12	2.20	0.76
15:O:638:LEU:HD23	15:O:748:GLU:CD	2.10	0.76
15:O:757:GLN:O	15:O:760:ILE:CG2	2.32	0.76
16:P:104:PHE:CB	16:P:211:TYR:HD1	1.73	0.76
16:P:208:PRO:HB2	16:P:213:SER:HB3	0.77	0.76
16:P:402:MET:O	16:P:406:GLN:HB2	1.85	0.76
1:A:1531:ASP:OD1	5:E:7:ARG:NH2	2.19	0.76
15:O:309:PRO:HG2	15:O:365:TRP:HE1	1.50	0.76
15:O:384:ASP:HB3	15:O:389:TRP:CB	2.09	0.76
15:O:499:GLU:OE1	15:O:499:GLU:HA	1.86	0.76
15:O:599:LYS:NZ	16:P:275:GLU:CD	2.43	0.76
16:P:122:GLU:CD	16:P:123:MET:HG2	2.11	0.76
16:P:315:ASN:HB2	16:P:480:LEU:HD11	1.68	0.76
1:A:27:LEU:O	2:B:1129:ARG:NE	2.17	0.76
2:B:77:LYS:CE	2:B:93:ASN:HB3	2.11	0.76
15:O:472:ARG:NH1	17:Q:203:SER:CB	2.48	0.76
15:O:702:LEU:HD23	16:P:123:MET:CE	2.15	0.76
16:P:137:TRP:CH2	16:P:156:LEU:CD2	2.68	0.76
16:P:238:HIS:CE1	16:P:289:ARG:NH2	2.53	0.76
1:A:403:LEU:HA	1:A:406:LEU:HG	1.66	0.76
16:P:94:LYS:HA	16:P:207:LEU:HB2	1.68	0.76
17:Q:142:ARG:HG3	17:Q:142:ARG:NH1	2.00	0.76
17:Q:216:LEU:CD2	17:Q:242:ILE:HD12	2.15	0.76
17:Q:352:TRP:HE3	17:Q:357:PRO:CG	1.91	0.76
3:C:152:ASP:O	3:C:154:LYS:N	2.19	0.76
15:O:582:ASP:O	15:O:586:LYS:CB	2.34	0.76
1:A:964:LYS:NZ	1:A:969:PHE:O	2.19	0.76
15:O:24:UNK:CB	17:Q:366:PHE:HE2	1.99	0.76
15:O:214:LEU:CA	15:O:236:ILE:HG21	2.11	0.76
15:O:347:LEU:CD1	17:Q:151:PRO:O	2.31	0.76
15:O:353:ASP:HB3	17:Q:27:ILE:O	1.86	0.76
16:P:378:LEU:HD11	17:Q:234:LYS:HB3	1.66	0.76
17:Q:393:ILE:O	17:Q:395:LEU:HG	1.85	0.76
13:M:54:HIS:HD2	13:M:63:GLU:HG2	1.51	0.76
15:O:220:THR:OG1	15:O:228:ASN:O	2.03	0.76
15:O:380:MET:CB	15:O:394:VAL:HG21	2.15	0.76
15:O:623:LEU:CD1	15:O:668:SER:O	2.33	0.76
15:O:650:LEU:HD22	16:P:139:LYS:HD2	1.68	0.76
15:O:706:GLU:HG3	16:P:438:PHE:HB3	1.64	0.76
17:Q:127:PHE:CD1	17:Q:131:TYR:CE2	2.73	0.76
9:I:3:VAL:CG2	9:I:43:SER:CB	2.53	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:301:GLN:O	15:O:320:ILE:HG13	1.85	0.75
15:O:347:LEU:HB3	17:Q:152:ILE:O	1.85	0.75
16:P:207:LEU:C	16:P:209:ASN:N	2.41	0.75
16:P:263:PRO:O	16:P:266:PHE:N	2.18	0.75
16:P:419:LEU:CG	17:Q:237:ALA:CB	2.64	0.75
1:A:385:LEU:HD13	1:A:437:PHE:HA	1.67	0.75
15:O:702:LEU:HA	16:P:123:MET:CE	2.17	0.75
16:P:95:LEU:O	16:P:100:ALA:HB2	1.86	0.75
16:P:344:THR:O	16:P:345:SER:HB2	1.84	0.75
19:S:45:DG:N2	20:T:10:DC:O2	2.17	0.75
3:C:230:LEU:HB2	3:C:297:HIS:CD2	2.21	0.75
15:O:351:ILE:HG12	17:Q:162:PHE:CD1	2.21	0.75
15:O:404:ASP:OD1	15:O:405:TYR:N	2.18	0.75
15:O:655:SER:HB3	16:P:244:ASN:HB2	1.68	0.75
16:P:104:PHE:CA	16:P:211:TYR:CD1	2.69	0.75
16:P:177:TYR:CZ	16:P:226:LEU:CD2	2.67	0.75
16:P:257:VAL:O	16:P:262:LEU:CA	2.35	0.75
2:B:815:ARG:NH2	19:S:26:DT:H5"	2.01	0.75
15:O:390:GLN:CB	17:Q:151:PRO:HG3	2.13	0.75
15:O:580:ASN:HB3	16:P:506:LYS:HZ1	1.49	0.75
15:O:659:LEU:O	15:O:663:LEU:CD2	2.35	0.75
15:O:356:GLU:CG	15:O:377:ARG:HH22	1.99	0.75
15:O:593:VAL:CG1	16:P:320:PHE:HD2	2.00	0.75
15:O:771:ILE:HG21	16:P:109:GLN:HE22	0.69	0.75
16:P:118:TRP:CZ2	16:P:189:LYS:CG	2.58	0.75
16:P:246:GLU:OE1	16:P:246:GLU:N	2.19	0.75
16:P:378:LEU:CD1	17:Q:235:ILE:N	2.48	0.75
16:P:417:PHE:HE2	17:Q:236:PHE:CE2	1.99	0.75
1:A:591:ARG:NH2	1:A:631:ASP:OD2	2.18	0.75
1:A:1163:GLU:O	1:A:1167:ARG:CB	2.34	0.75
7:G:80:VAL:HG22	7:G:243:VAL:HG11	1.69	0.75
15:O:499:GLU:CG	15:O:500:ILE:H	2.00	0.75
17:Q:355:THR:H	17:Q:359:MET:HG2	0.93	0.75
17:Q:410:TYR:CZ	17:Q:414:PHE:CZ	2.74	0.75
1:A:116:HIS:CE1	1:A:185:ARG:HD2	2.22	0.75
2:B:479:GLN:HA	19:S:39:DT:O2	1.86	0.75
11:K:86:VAL:HA	11:K:107:THR:HG22	1.68	0.75
14:N:172:ALA:HB3	14:N:175:TYR:HD2	1.51	0.75
15:O:656:HIS:HD2	15:O:746:ARG:C	1.95	0.75
15:O:662:LEU:HD23	15:O:662:LEU:N	2.02	0.75
15:O:669:PHE:O	15:O:669:PHE:CD1	2.40	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:116:ILE:HA	16:P:119:LEU:CD1	2.15	0.75
16:P:123:MET:CB	16:P:125:PHE:CE2	2.56	0.75
16:P:211:TYR:O	16:P:214:ILE:N	2.20	0.75
16:P:378:LEU:HD11	17:Q:234:LYS:CA	2.16	0.75
17:Q:355:THR:CB	17:Q:356:PRO:CD	2.37	0.75
17:Q:380:SER:O	17:Q:383:PHE:C	2.29	0.75
20:T:22:DG:H5''	20:T:22:DG:H8	1.52	0.75
1:A:403:LEU:HA	1:A:406:LEU:CD2	2.16	0.75
1:A:690:GLU:HA	11:K:81:MET:HE2	1.69	0.75
2:B:29:PRO:HB2	2:B:177:PRO:HG2	1.68	0.75
12:L:31:CYS:CB	12:L:34:CYS:SG	2.71	0.75
14:N:78:THR:OG1	14:N:89:ILE:O	2.02	0.75
15:O:241:PRO:HG2	15:O:266:GLU:OE1	1.87	0.75
15:O:307:PHE:C	15:O:315:PHE:HB2	2.12	0.75
15:O:347:LEU:O	15:O:347:LEU:CD1	2.35	0.75
15:O:641:TRP:CE2	15:O:653:SER:HA	2.22	0.75
16:P:104:PHE:CE1	16:P:215:LEU:HG	2.22	0.75
16:P:198:ILE:HD13	16:P:198:ILE:N	2.02	0.75
16:P:403:THR:C	16:P:405:ASP:H	1.94	0.75
16:P:431:ASP:OD1	16:P:434:HIS:O	2.05	0.75
2:B:819:ASP:H	2:B:820:PRO:CD	1.99	0.75
5:E:4:GLU:O	5:E:8:ASN:ND2	2.19	0.75
15:O:431:ASP:HB2	15:O:432:PRO:HD3	0.78	0.75
15:O:433:VAL:CB	17:Q:144:VAL:HB	2.15	0.75
15:O:617:HIS:O	15:O:618:ASP:CG	2.30	0.75
16:P:357:TYR:OH	17:Q:203:SER:HB2	1.87	0.75
17:Q:393:ILE:O	17:Q:395:LEU:HD23	1.87	0.75
4:D:30:HIS:HB3	7:G:36:ASN:ND2	2.02	0.74
15:O:248:PRO:HB2	15:O:307:PHE:CE2	2.21	0.74
15:O:314:GLN:HG2	15:O:314:GLN:O	1.87	0.74
15:O:698:LYS:HE2	16:P:126:PRO:CG	2.17	0.74
16:P:150:GLU:O	16:P:152:LEU:HD22	1.86	0.74
16:P:354:LYS:HB3	16:P:362:THR:HB	1.67	0.74
19:S:45:DG:N1	20:T:10:DC:N3	2.31	0.74
2:B:819:ASP:N	2:B:820:PRO:HD3	2.02	0.74
15:O:398:ALA:CB	17:Q:134:PRO:CG	2.60	0.74
15:O:693:PHE:CB	15:O:747:LEU:HD22	2.16	0.74
1:A:998:HIS:CE1	2:B:712:SER:H	2.04	0.74
2:B:604:ILE:O	2:B:608:LEU:HB2	1.86	0.74
11:K:88:PHE:HB3	11:K:106:GLN:HG2	1.69	0.74
13:M:399:VAL:HB	13:M:400:PRO:HD3	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:399:TRP:HE1	17:Q:134:PRO:CG	1.96	0.74
15:O:414:ILE:HB	15:O:425:GLY:CA	2.18	0.74
15:O:650:LEU:HD21	16:P:135:ILE:HD13	1.67	0.74
15:O:702:LEU:HD21	16:P:125:PHE:CE2	2.20	0.74
16:P:108:PHE:CD2	16:P:137:TRP:CH2	2.75	0.74
16:P:359:ASP:C	16:P:361:PRO:HD3	2.12	0.74
2:B:1016:GLY:O	3:C:69:ARG:NH2	2.19	0.74
15:O:188:GLN:N	15:O:199:GLY:CA	2.37	0.74
15:O:352:PHE:HB3	15:O:354:PRO:HD2	1.68	0.74
15:O:599:LYS:CD	16:P:272:GLN:NE2	2.51	0.74
15:O:744:LEU:HD13	15:O:744:LEU:N	2.02	0.74
16:P:157:HIS:CG	16:P:158:MET:H	2.05	0.74
16:P:352:ILE:O	16:P:355:VAL:HG23	1.87	0.74
1:A:1039:ARG:HD2	6:F:139:PRO:HG2	1.70	0.74
15:O:409:ASP:O	15:O:411:LYS:N	2.20	0.74
15:O:433:VAL:CB	17:Q:144:VAL:CB	2.56	0.74
15:O:442:LEU:HD13	15:O:444:PRO:CD	2.13	0.74
16:P:115:GLN:CG	16:P:190:MET:SD	2.76	0.74
16:P:154:LEU:C	16:P:156:LEU:CD1	2.55	0.74
16:P:337:SER:HA	16:P:448:LYS:CE	2.17	0.74
16:P:483:ILE:HG22	16:P:487:LEU:HD23	1.69	0.74
2:B:154:GLU:HB2	2:B:446:MET:HE2	1.70	0.74
7:G:169:VAL:HG23	7:G:216:HIS:HB3	1.70	0.74
15:O:578:PHE:CE1	16:P:312:LEU:HA	2.23	0.74
16:P:152:LEU:HD22	16:P:152:LEU:N	2.02	0.74
17:Q:393:ILE:HD11	17:Q:395:LEU:O	1.88	0.74
1:A:921:PRO:O	1:A:922:CYS:SG	2.45	0.74
2:B:1002:LYS:HG2	14:N:166:LEU:HD12	1.67	0.74
15:O:420:GLU:O	15:O:421:ILE:HG13	1.88	0.74
15:O:571:HIS:CB	15:O:573:GLU:OE2	2.35	0.74
15:O:698:LYS:CE	16:P:126:PRO:CD	2.62	0.74
16:P:219:ILE:HG13	16:P:220:SER:N	2.03	0.74
16:P:315:ASN:O	16:P:319:SER:N	2.21	0.74
17:Q:395:LEU:HD23	17:Q:395:LEU:N	2.01	0.74
19:S:42:DG:N2	20:T:13:DC:O2	2.20	0.74
1:A:381:SER:HB3	1:A:453:ILE:HB	1.70	0.74
1:A:596:HIS:HD2	1:A:598:ALA:HB3	1.53	0.74
14:N:26:PRO:C	14:N:28:GLY:N	2.46	0.74
15:O:669:PHE:HE1	15:O:738:LYS:HE2	0.93	0.74
1:A:1296:PHE:N	1:A:1468:LYS:O	2.20	0.74
2:B:77:LYS:CE	2:B:93:ASN:CB	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:479:GLN:HB3	19:S:39:DT:N3	2.03	0.74
2:B:1104:CYS:SG	2:B:1128:CYS:CB	2.75	0.74
15:O:703:PHE:CZ	16:P:254:LEU:HD21	2.22	0.74
16:P:115:GLN:OE1	16:P:161:THR:CG2	2.36	0.74
15:O:279:SER:O	15:O:282:CYS:N	2.21	0.74
15:O:423:ILE:CG2	17:Q:141:TRP:CH2	2.38	0.74
15:O:430:ASN:CG	15:O:431:ASP:OD1	2.31	0.74
16:P:108:PHE:CZ	16:P:156:LEU:HD23	2.23	0.74
1:A:348:LYS:NZ	1:A:1629:ASN:OD1	2.21	0.73
1:A:468:ARG:NE	2:B:1073:GLU:OE2	2.19	0.73
15:O:347:LEU:HD23	17:Q:152:ILE:CB	2.18	0.73
16:P:415:LYS:C	16:P:417:PHE:H	1.93	0.73
17:Q:208:TYR:HA	17:Q:211:ARG:CG	2.18	0.73
17:Q:289:ASN:O	20:T:38:DA:H5''	1.88	0.73
1:A:363:PRO:O	1:A:368:ARG:NH1	2.16	0.73
1:A:912:VAL:HB	1:A:913:PRO:HD3	0.75	0.73
15:O:297:ILE:O	15:O:297:ILE:HG22	1.88	0.73
15:O:657:SER:O	15:O:658:LYS:HG2	1.88	0.73
17:Q:355:THR:C	17:Q:359:MET:CB	2.62	0.73
17:Q:380:SER:CB	17:Q:438:PHE:CZ	2.71	0.73
3:C:151:THR:HG22	3:C:155:GLU:CB	2.18	0.73
5:E:90:VAL:HB	5:E:119:SER:HB2	1.69	0.73
5:E:128:PRO:HB2	5:E:129:PRO:HD3	1.70	0.73
15:O:580:ASN:CB	16:P:506:LYS:NZ	2.52	0.73
15:O:604:ILE:CG1	15:O:732:LEU:CD2	2.66	0.73
15:O:659:LEU:HB2	15:O:742:TRP:HZ2	1.51	0.73
16:P:289:ARG:O	16:P:290:THR:C	2.29	0.73
19:S:13:DA:N6	20:T:42:DT:O4	2.17	0.73
19:S:28:DT:H1'	19:S:29:DT:C5	2.22	0.73
1:A:403:LEU:O	1:A:406:LEU:HG	1.89	0.73
1:A:403:LEU:HG	1:A:406:LEU:HD11	1.70	0.73
1:A:721:LYS:HD3	8:H:96:VAL:CG2	2.19	0.73
2:B:77:LYS:HB3	2:B:93:ASN:HB2	1.69	0.73
2:B:985:ILE:O	14:N:157:ARG:NH2	2.19	0.73
14:N:80:MET:HE2	14:N:82:ILE:HD11	1.68	0.73
7:G:170:HIS:HA	7:G:215:GLY:HA3	1.71	0.73
15:O:217:ALA:HB3	15:O:229:ARG:CZ	2.17	0.73
15:O:430:ASN:OD1	15:O:431:ASP:N	2.21	0.73
15:O:456:VAL:HB	15:O:463:LEU:HD11	1.70	0.73
15:O:592:LEU:HD11	16:P:512:ARG:NH2	1.97	0.73
15:O:672:ILE:CD1	15:O:734:LYS:CE	2.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:400:MET:O	16:P:401:GLU:HB2	1.88	0.73
16:P:496:GLU:O	16:P:499:LYS:HB2	1.88	0.73
17:Q:149:LYS:O	17:Q:151:PRO:HD3	1.89	0.73
1:A:944:MET:O	1:A:985:ARG:NH1	2.22	0.73
2:B:1195:ARG:NH2	7:G:117:TRP:CH2	2.55	0.73
15:O:309:PRO:O	15:O:310:TRP:HB3	1.89	0.73
15:O:344:ILE:HD11	15:O:346:ASN:HB3	1.70	0.73
15:O:663:LEU:H	15:O:663:LEU:CD1	2.00	0.73
16:P:246:GLU:O	16:P:285:THR:C	2.31	0.73
16:P:479:LEU:C	16:P:479:LEU:HD23	2.12	0.73
2:B:341:SER:HB2	2:B:342:PRO:HD2	1.65	0.73
15:O:376:ASP:OD2	15:O:379:LYS:CG	2.36	0.73
15:O:616:SER:CA	15:O:620:ASP:H	1.80	0.73
15:O:722:TRP:CZ3	16:P:264:PRO:N	2.57	0.73
15:O:775:TRP:NE1	16:P:113:LYS:HB2	2.03	0.73
16:P:338:LEU:O	16:P:340:GLN:N	2.22	0.73
1:A:1047:GLN:NE2	1:A:1587:ASP:OD2	2.19	0.73
2:B:311:ARG:HH22	9:I:19:ASN:H	1.36	0.73
15:O:22:UNK:O	17:Q:314:TRP:CD2	2.41	0.73
16:P:165:LEU:HD23	16:P:165:LEU:C	2.14	0.73
17:Q:294:VAL:N	17:Q:295:PRO:HD2	1.99	0.73
17:Q:410:TYR:CZ	17:Q:414:PHE:HZ	2.06	0.73
15:O:248:PRO:CD	15:O:307:PHE:CZ	2.67	0.73
15:O:440:HIS:CE1	15:O:481:PHE:HE1	2.01	0.73
15:O:620:ASP:HA	15:O:674:GLU:OE1	1.88	0.73
15:O:623:LEU:HD11	15:O:669:PHE:N	2.03	0.73
16:P:118:TRP:HH2	16:P:189:LYS:HD3	0.72	0.73
17:Q:356:PRO:CD	17:Q:357:PRO:N	2.49	0.73
1:A:413:LEU:HD12	1:A:413:LEU:O	1.89	0.73
2:B:1107:CYS:HA	2:B:1130:ARG:NH2	2.04	0.73
14:N:25:ILE:HB	14:N:26:PRO:HD3	1.57	0.73
15:O:186:TYR:HA	15:O:201:GLU:HG3	1.71	0.73
15:O:307:PHE:O	15:O:315:PHE:CG	2.42	0.73
15:O:383:ILE:HG13	15:O:390:GLN:CG	2.19	0.73
15:O:388:ASN:C	17:Q:150:GLN:OE1	2.31	0.73
15:O:433:VAL:CA	17:Q:144:VAL:HG11	2.19	0.73
15:O:651:SER:C	15:O:653:SER:H	1.97	0.73
17:Q:303:THR:HG23	17:Q:304:HIS:H	1.54	0.73
17:Q:354:LEU:CD1	17:Q:358:PHE:C	2.61	0.73
19:S:24:DG:N1	20:T:31:DC:N3	2.37	0.73
19:S:28:DT:H4'	19:S:29:DT:C5'	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:GLU:HB2	1:A:1645:LYS:NZ	2.04	0.72
2:B:187:SER:OG	10:J:59:LYS:NZ	2.20	0.72
15:O:53:UNK:O	15:O:554:ASN:ND2	2.22	0.72
15:O:193:LEU:O	15:O:194:ARG:O	2.05	0.72
16:P:258:MET:HA	16:P:262:LEU:HD22	1.71	0.72
16:P:284:LEU:HB3	16:P:302:ALA:HB1	1.70	0.72
16:P:359:ASP:CG	16:P:361:PRO:HD3	2.13	0.72
19:S:25:DT:H2'	19:S:26:DT:H71	1.69	0.72
1:A:757:ASN:OD1	1:A:766:GLU:N	2.20	0.72
5:E:5:ASN:HD21	5:E:51:GLY:HA3	1.54	0.72
13:M:45:LYS:H	13:M:45:LYS:CD	2.02	0.72
15:O:273:ARG:CB	15:O:287:SER:OG	2.37	0.72
15:O:307:PHE:HD1	15:O:315:PHE:CE2	1.71	0.72
15:O:312:LEU:HD23	15:O:315:PHE:CE1	2.22	0.72
16:P:224:GLY:C	16:P:226:LEU:H	1.97	0.72
16:P:341:ARG:HB3	16:P:445:ARG:HH22	1.51	0.72
2:B:155:VAL:HG21	17:Q:359:MET:CE	2.14	0.72
13:M:45:LYS:CE	13:M:48:LYS:CB	2.66	0.72
15:O:390:GLN:CB	17:Q:151:PRO:CG	2.68	0.72
15:O:686:TYR:CB	15:O:692:THR:CG2	2.66	0.72
16:P:186:CYS:SG	16:P:349:GLY:CA	2.77	0.72
16:P:258:MET:H	16:P:262:LEU:HD13	1.53	0.72
17:Q:26:TYR:CA	17:Q:29:ARG:HD2	2.05	0.72
17:Q:245:VAL:CG1	17:Q:250:LEU:CD2	2.57	0.72
17:Q:354:LEU:CD1	17:Q:359:MET:C	2.62	0.72
2:B:822:THR:O	2:B:823:GLN:C	2.33	0.72
9:I:24:LEU:N	9:I:24:LEU:HD23	2.05	0.72
15:O:275:GLU:CG	15:O:285:MET:CG	2.67	0.72
15:O:568:ILE:HG22	15:O:570:ASP:H	1.53	0.72
15:O:659:LEU:O	15:O:742:TRP:HZ2	1.72	0.72
19:S:28:DT:C1'	19:S:29:DT:C6	2.70	0.72
10:J:7:CYS:HB3	10:J:10:CYS:SG	2.29	0.72
15:O:299:ASP:HB3	17:Q:159:TYR:CB	2.19	0.72
15:O:364:GLU:OE2	15:O:407:ARG:HD2	1.89	0.72
15:O:442:LEU:C	15:O:442:LEU:HD12	2.15	0.72
15:O:655:SER:CA	16:P:244:ASN:HB3	2.17	0.72
15:O:722:TRP:HE3	16:P:264:PRO:CG	1.66	0.72
16:P:238:HIS:NE2	16:P:289:ARG:NE	2.38	0.72
16:P:365:ASP:OD1	16:P:365:ASP:N	2.16	0.72
17:Q:27:ILE:HD11	17:Q:169:PRO:HG2	1.58	0.72
17:Q:247:ILE:O	17:Q:250:LEU:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:309:PRO:CD	15:O:365:TRP:CE2	2.71	0.72
15:O:375:PHE:CZ	15:O:405:TYR:HB2	2.23	0.72
17:Q:258:LEU:HD22	17:Q:265:SER:HB2	1.72	0.72
2:B:1133:MET:HB2	2:B:1161:ASP:HB3	1.70	0.72
3:C:152:ASP:O	3:C:155:GLU:N	2.19	0.72
15:O:242:ILE:HA	15:O:265:THR:HG22	1.71	0.72
15:O:412:ASN:HA	15:O:427:SER:OG	1.90	0.72
15:O:461:HIS:CB	15:O:484:ARG:HG2	2.19	0.72
15:O:620:ASP:HA	15:O:674:GLU:CD	2.15	0.72
15:O:663:LEU:HD12	15:O:663:LEU:N	2.03	0.72
16:P:155:GLN:CB	20:T:45:DC:P	2.64	0.72
16:P:200:PRO:CB	16:P:203:TRP:CD1	2.72	0.72
17:Q:5:PRO:CB	17:Q:244:GLY:O	2.38	0.72
17:Q:153:ASN:O	17:Q:154:LYS:CB	2.36	0.72
19:S:25:DT:H2"	19:S:26:DT:C6	2.24	0.72
2:B:795:GLU:OE1	3:C:217:ALA:N	2.20	0.72
2:B:1035:ARG:NH2	2:B:1039:MET:SD	2.62	0.72
8:H:14:GLU:HB2	8:H:27:GLU:HB2	1.71	0.72
15:O:214:LEU:CA	15:O:236:ILE:CG2	2.67	0.72
15:O:430:ASN:OD1	15:O:431:ASP:OD1	2.06	0.72
16:P:105:LEU:O	16:P:109:GLN:HG3	1.89	0.72
16:P:158:MET:SD	16:P:219:ILE:O	2.48	0.72
16:P:287:TRP:CH2	16:P:298:VAL:CG2	2.71	0.72
16:P:491:PHE:C	16:P:493:ILE:H	1.98	0.72
17:Q:124:GLU:OE2	17:Q:289:ASN:ND2	2.21	0.72
1:A:781:LEU:CB	1:A:786:TYR:OH	2.37	0.72
14:N:94:ASP:C	14:N:95:ILE:HG13	2.15	0.72
15:O:11:UNK:O	15:O:436:ILE:CD1	2.38	0.72
15:O:307:PHE:O	15:O:315:PHE:HB3	1.90	0.72
15:O:314:GLN:HB3	15:O:329:ILE:CG1	2.10	0.72
15:O:362:ARG:NH1	15:O:364:GLU:OE1	2.20	0.72
15:O:383:ILE:HG13	15:O:390:GLN:HG3	1.71	0.72
15:O:431:ASP:OD1	15:O:432:PRO:HD2	1.89	0.72
16:P:144:ILE:C	16:P:147:GLN:NE2	2.48	0.72
16:P:294:HIS:HB2	20:T:48:DA:H61	0.90	0.72
17:Q:269:ASP:OD1	17:Q:269:ASP:N	2.11	0.72
1:A:417:ARG:NH1	1:A:420:PHE:HB3	2.03	0.72
2:B:204:ARG:NH1	18:R:3:G:OP1	2.23	0.72
2:B:1139:LYS:C	2:B:1141:LEU:N	2.48	0.72
15:O:264:ILE:HG21	15:O:302:VAL:HB	1.71	0.72
15:O:314:GLN:HE21	15:O:328:ARG:CG	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:352:PHE:HB3	15:O:354:PRO:CD	2.19	0.72
15:O:353:ASP:C	17:Q:28:SER:CA	2.58	0.72
15:O:581:ALA:HB3	15:O:585:GLU:HB3	1.54	0.72
15:O:672:ILE:N	15:O:673:PRO:CD	2.53	0.72
16:P:105:LEU:HD23	16:P:109:GLN:NE2	2.05	0.72
16:P:137:TRP:CH2	16:P:156:LEU:HD21	2.24	0.72
16:P:235:GLY:CA	16:P:289:ARG:CA	2.66	0.72
16:P:487:LEU:CD1	16:P:498:LEU:HD11	2.20	0.72
17:Q:21:TYR:CD2	17:Q:124:GLU:HB2	2.25	0.72
17:Q:158:THR:O	17:Q:161:ASN:N	2.23	0.72
17:Q:354:LEU:CA	17:Q:359:MET:H	2.03	0.72
2:B:814:ASN:O	2:B:814:ASN:ND2	2.22	0.71
9:I:27:ASN:ND2	9:I:36:ILE:HG22	2.04	0.71
15:O:308:ASN:O	15:O:310:TRP:CD1	2.43	0.71
16:P:101:LYS:CE	16:P:152:LEU:HD13	2.06	0.71
16:P:235:GLY:O	16:P:289:ARG:HD2	1.89	0.71
16:P:257:VAL:O	16:P:262:LEU:HA	1.90	0.71
15:O:656:HIS:HB3	15:O:748:GLU:N	2.05	0.71
15:O:658:LYS:CA	15:O:659:LEU:HD13	2.18	0.71
15:O:769:GLN:O	15:O:772:ILE:HG23	1.89	0.71
16:P:94:LYS:HA	16:P:207:LEU:CB	2.20	0.71
17:Q:127:PHE:CD1	17:Q:131:TYR:HE2	2.06	0.71
17:Q:277:ILE:HD12	17:Q:277:ILE:O	1.90	0.71
17:Q:363:GLU:C	17:Q:367:ILE:HG22	2.10	0.71
2:B:791:LYS:NZ	2:B:795:GLU:OE2	2.23	0.71
15:O:436:ILE:HB	17:Q:141:TRP:CZ3	2.26	0.71
16:P:212:VAL:HA	16:P:215:LEU:HG	1.72	0.71
16:P:385:PHE:C	16:P:388:THR:HG22	2.14	0.71
17:Q:143:THR:OG1	17:Q:144:VAL:N	2.20	0.71
2:B:1105:ARG:O	2:B:1196:LEU:HD21	1.89	0.71
15:O:269:PHE:HE1	15:O:339:ARG:CD	2.03	0.71
15:O:310:TRP:HB2	15:O:368:HIS:CE1	2.24	0.71
15:O:382:GLU:OE1	15:O:433:VAL:HG12	1.89	0.71
15:O:438:TRP:HE1	15:O:489:PHE:CB	2.03	0.71
16:P:154:LEU:HD13	16:P:154:LEU:N	2.05	0.71
16:P:278:GLU:HA	16:P:309:TYR:OH	1.89	0.71
16:P:282:ARG:HB3	16:P:282:ARG:CZ	2.18	0.71
16:P:494:SER:HG	16:P:497:GLN:N	1.88	0.71
4:D:41:GLU:OE1	4:D:93:GLN:NE2	2.23	0.71
14:N:26:PRO:C	14:N:28:GLY:H	1.98	0.71
15:O:273:ARG:HB2	15:O:287:SER:HG	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:119:LEU:HD22	16:P:165:LEU:HD11	1.71	0.71
16:P:123:MET:O	16:P:124:ARG:HB2	1.89	0.71
17:Q:133:LYS:HB3	17:Q:134:PRO:CD	2.21	0.71
1:A:920:PHE:HB3	1:A:921:PRO:HD2	1.70	0.71
1:A:968:SER:OG	1:A:993:GLN:NE2	2.23	0.71
13:M:291:PRO:HD2	13:M:294:LEU:HD12	1.73	0.71
15:O:188:GLN:CA	15:O:199:GLY:CA	2.67	0.71
15:O:214:LEU:CG	15:O:242:ILE:HD13	2.20	0.71
15:O:310:TRP:CB	15:O:368:HIS:CE1	2.74	0.71
15:O:356:GLU:HG2	15:O:377:ARG:HH21	1.51	0.71
15:O:424:VAL:HG23	15:O:437:SER:OG	1.90	0.71
15:O:437:SER:HB2	15:O:489:PHE:CD2	2.24	0.71
15:O:600:GLU:OE2	16:P:268:PHE:HB2	1.90	0.71
19:S:28:DT:H4'	19:S:29:DT:O4'	1.90	0.71
9:I:3:VAL:CG1	9:I:43:SER:OG	2.38	0.71
15:O:474:LYS:HD2	15:O:499:GLU:H	1.54	0.71
15:O:499:GLU:HG2	15:O:550:TYR:OH	1.90	0.71
15:O:583:GLU:OE2	15:O:584:ARG:CG	2.34	0.71
16:P:119:LEU:HD13	16:P:165:LEU:CD1	2.20	0.71
17:Q:388:LYS:HD2	17:Q:393:ILE:CB	2.18	0.71
1:A:403:LEU:HD23	13:M:166:ARG:HH21	1.53	0.71
14:N:95:ILE:CD1	14:N:136:VAL:CB	2.68	0.71
15:O:358:SER:CB	17:Q:194:GLY:O	2.38	0.71
15:O:382:GLU:C	15:O:383:ILE:HD12	2.16	0.71
17:Q:247:ILE:HG13	17:Q:298:GLN:CB	2.15	0.71
19:S:10:DG:O6	20:T:45:DC:N4	2.19	0.71
1:A:39:ASP:OD1	1:A:40:ASN:N	2.23	0.71
3:C:151:THR:HG21	3:C:155:GLU:CB	2.19	0.71
15:O:215:ASN:N	15:O:236:ILE:CG1	2.41	0.71
15:O:347:LEU:HB2	17:Q:152:ILE:C	2.13	0.71
15:O:352:PHE:HB2	15:O:355:GLU:CB	2.21	0.71
15:O:604:ILE:CG1	15:O:732:LEU:HD21	2.20	0.71
15:O:658:LYS:HB3	15:O:660:LYS:HG2	1.72	0.71
15:O:703:PHE:CZ	16:P:254:LEU:CD2	2.73	0.71
16:P:155:GLN:O	20:T:45:DC:C5'	2.39	0.71
1:A:1478:ALA:CB	9:I:21:ASN:HD21	2.03	0.71
2:B:211:ARG:NH2	2:B:243:GLN:OE1	2.23	0.71
2:B:572:PRO:HB2	2:B:575:HIS:HD2	1.55	0.71
5:E:47:CYS:HB3	5:E:51:GLY:HA2	1.72	0.71
9:I:37:TYR:CB	9:I:38:PRO:HD2	2.14	0.71
15:O:260:LEU:HD12	15:O:271:ILE:HG23	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:375:PHE:HB3	15:O:380:MET:HG3	1.73	0.71
15:O:431:ASP:CG	15:O:432:PRO:HD2	2.15	0.71
15:O:534:VAL:HA	15:O:552:LEU:O	1.91	0.71
16:P:179:CYS:HB2	16:P:255:LYS:HD3	1.72	0.71
17:Q:381:ARG:O	17:Q:384:VAL:HG23	1.91	0.71
15:O:221:ARG:CD	15:O:227:LEU:HD22	2.21	0.70
15:O:266:GLU:OE1	15:O:266:GLU:N	2.24	0.70
15:O:529:GLU:N	15:O:529:GLU:OE1	2.24	0.70
15:O:573:GLU:HG3	16:P:495:LYS:CE	2.20	0.70
15:O:702:LEU:CD1	16:P:125:PHE:CZ	2.73	0.70
15:O:771:ILE:HG21	16:P:109:GLN:CD	1.93	0.70
16:P:146:ASP:CA	16:P:148:PRO:HD3	2.21	0.70
16:P:193:PHE:CB	17:Q:208:TYR:CE2	2.74	0.70
16:P:389:GLN:OE1	16:P:389:GLN:HA	1.89	0.70
17:Q:355:THR:H	17:Q:359:MET:CG	1.76	0.70
17:Q:358:PHE:HD1	17:Q:365:TRP:CH2	2.09	0.70
1:A:503:VAL:O	1:A:580:HIS:CE1	2.43	0.70
2:B:261:ARG:NH2	2:B:268:GLU:OE1	2.23	0.70
2:B:915:ASP:OD2	2:B:1035:ARG:NE	2.23	0.70
9:I:26:SER:O	9:I:38:PRO:HB2	1.91	0.70
15:O:352:PHE:CB	15:O:354:PRO:HD2	2.20	0.70
15:O:593:VAL:HB	16:P:320:PHE:HD2	1.55	0.70
16:P:118:TRP:CZ3	16:P:189:LYS:CD	2.64	0.70
16:P:154:LEU:N	16:P:154:LEU:HD22	2.05	0.70
2:B:819:ASP:OD1	2:B:819:ASP:N	2.24	0.70
14:N:95:ILE:HD11	14:N:136:VAL:CB	2.21	0.70
16:P:106:LYS:HA	16:P:109:GLN:OE1	1.91	0.70
16:P:247:ILE:CG1	16:P:286:LEU:HA	2.18	0.70
1:A:417:ARG:HH22	1:A:420:PHE:HD2	1.39	0.70
1:A:571:HIS:HE2	7:G:53:TYR:HH	1.38	0.70
1:A:920:PHE:CE1	1:A:927:ALA:HA	2.25	0.70
2:B:286:ARG:NH1	2:B:290:ASP:OD1	2.24	0.70
15:O:408:ILE:CD1	15:O:464:LEU:HD13	2.21	0.70
15:O:529:GLU:HG2	15:O:530:ASN:N	2.05	0.70
15:O:698:LYS:CE	16:P:126:PRO:HD2	2.20	0.70
15:O:706:GLU:CG	16:P:438:PHE:HB3	2.20	0.70
16:P:344:THR:HA	16:P:436:LEU:O	1.90	0.70
17:Q:295:PRO:O	17:Q:297:PHE:N	2.24	0.70
1:A:403:LEU:HG	1:A:406:LEU:HD21	1.74	0.70
2:B:656:LEU:HD21	2:B:681:ILE:HD13	1.74	0.70
2:B:822:THR:O	2:B:824:HIS:ND1	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:11:GLU:H	13:M:86:LYS:HE2	1.56	0.70
15:O:323:ASN:OD1	17:Q:155:GLN:HG2	1.91	0.70
15:O:428:GLU:CB	15:O:432:PRO:O	2.33	0.70
15:O:672:ILE:HD12	15:O:734:LYS:CE	2.20	0.70
1:A:1241:PRO:HA	1:A:1518:VAL:HG12	1.73	0.70
2:B:1042:ASP:OD2	2:B:1063:ARG:NH1	2.24	0.70
13:M:45:LYS:HZ3	13:M:50:GLU:N	1.89	0.70
15:O:388:ASN:CB	17:Q:150:GLN:CD	2.63	0.70
16:P:160:SER:HB3	16:P:229:LYS:HE2	1.72	0.70
17:Q:356:PRO:HD2	17:Q:357:PRO:N	2.05	0.70
2:B:77:LYS:HD3	2:B:440:PHE:CZ	2.26	0.70
2:B:111:ASP:CG	2:B:116:ALA:HB2	2.16	0.70
15:O:207:SER:OG	15:O:215:ASN:ND2	2.25	0.70
15:O:685:TYR:CD1	15:O:689:GLN:OE1	2.36	0.70
15:O:702:LEU:CD1	16:P:174:LEU:CB	2.70	0.70
16:P:104:PHE:CZ	16:P:155:GLN:OE1	2.45	0.70
16:P:104:PHE:CA	16:P:211:TYR:CE1	2.73	0.70
16:P:114:ARG:NH1	16:P:197:GLU:OE2	2.24	0.70
16:P:152:LEU:HA	16:P:154:LEU:HD21	1.73	0.70
16:P:185:ILE:CD1	17:Q:208:TYR:OH	2.40	0.70
16:P:354:LYS:CD	16:P:362:THR:CG2	2.68	0.70
17:Q:247:ILE:HG23	17:Q:278:TYR:HE2	1.45	0.70
17:Q:356:PRO:CB	17:Q:357:PRO:HD3	2.14	0.70
13:M:56:GLU:OE2	14:N:23:PHE:CE2	2.45	0.70
15:O:275:GLU:CA	15:O:285:MET:O	2.38	0.70
15:O:707:ASP:C	15:O:709:PRO:HD3	2.17	0.70
15:O:714:PHE:CZ	15:O:718:LEU:HD22	2.27	0.70
16:P:115:GLN:O	16:P:119:LEU:HG	1.90	0.70
19:S:23:DG:N2	20:T:32:DC:O2	2.13	0.70
1:A:594:THR:HB	2:B:1074:MET:HB3	1.74	0.70
2:B:1132:SER:HB2	2:B:1160:GLU:HB3	1.73	0.70
3:C:128:ASP:OD1	3:C:174:ARG:NH2	2.18	0.70
14:N:79:THR:HG22	14:N:88:LYS:HG2	1.73	0.70
15:O:221:ARG:CD	15:O:227:LEU:CD2	2.70	0.70
15:O:248:PRO:CD	15:O:307:PHE:CE2	2.75	0.70
15:O:314:GLN:NE2	15:O:328:ARG:CB	2.26	0.70
15:O:382:GLU:OE1	17:Q:144:VAL:HG11	1.91	0.70
15:O:415:LEU:HD21	15:O:451:ILE:CD1	2.21	0.70
15:O:454:GLN:OE1	15:O:535:VAL:HG23	1.91	0.70
15:O:715:TYR:CE1	15:O:734:LYS:HD2	2.05	0.70
15:O:740:ILE:C	15:O:744:LEU:HD11	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:780:ILE:N	16:P:199:LEU:HD21	2.06	0.70
17:Q:247:ILE:HD11	17:Q:248:LYS:HD2	1.73	0.70
1:A:417:ARG:HH12	1:A:420:PHE:CB	1.91	0.70
1:A:721:LYS:HB2	8:H:96:VAL:H	1.56	0.70
2:B:219:ARG:NH2	19:S:41:DT:OP1	2.25	0.70
9:I:42:PHE:CE2	9:I:44:ASN:CA	2.61	0.70
12:L:47:ARG:HD3	16:P:405:ASP:OD1	1.92	0.70
15:O:580:ASN:OD1	15:O:581:ALA:N	2.24	0.70
15:O:623:LEU:CD1	15:O:669:PHE:N	2.55	0.70
15:O:722:TRP:HH2	16:P:262:LEU:CG	1.61	0.70
17:Q:360:GLU:O	17:Q:361:ASP:CB	2.40	0.70
1:A:406:LEU:CD2	1:A:416:ARG:CD	2.69	0.69
1:A:463:LYS:HD2	1:A:463:LYS:C	2.16	0.69
7:G:143:SER:O	7:G:159:LYS:N	2.24	0.69
9:I:38:PRO:C	9:I:40:SER:O	2.34	0.69
15:O:390:GLN:CD	17:Q:151:PRO:HG2	2.17	0.69
15:O:472:ARG:HH12	17:Q:203:SER:CB	2.05	0.69
15:O:569:VAL:HG21	16:P:477:GLY:C	2.16	0.69
16:P:362:THR:C	16:P:365:ASP:CG	2.57	0.69
17:Q:354:LEU:C	17:Q:359:MET:HG2	2.06	0.69
1:A:113:VAL:O	1:A:185:ARG:NH1	2.24	0.69
2:B:552:SER:OG	2:B:648:ARG:N	2.24	0.69
15:O:262:GLY:HA2	15:O:271:ILE:HA	1.74	0.69
15:O:301:GLN:O	15:O:320:ILE:HG12	1.91	0.69
15:O:328:ARG:N	15:O:340:LYS:HB2	2.07	0.69
15:O:582:ASP:O	15:O:586:LYS:HB2	1.91	0.69
15:O:589:ILE:HG23	16:P:316:TRP:CE3	2.23	0.69
15:O:686:TYR:CD1	15:O:689:GLN:HG3	2.24	0.69
16:P:104:PHE:CE1	16:P:211:TYR:C	2.70	0.69
16:P:184:TRP:CD1	16:P:190:MET:H	2.06	0.69
16:P:263:PRO:HG2	16:P:266:PHE:CG	2.28	0.69
16:P:494:SER:CB	16:P:497:GLN:CG	2.71	0.69
17:Q:350:SER:O	17:Q:351:GLU:C	2.35	0.69
2:B:513:LYS:NZ	19:S:42:DG:H4'	2.06	0.69
7:G:82:LEU:N	7:G:123:TYR:O	2.24	0.69
8:H:100:THR:O	8:H:116:TYR:HA	1.91	0.69
15:O:307:PHE:CB	15:O:315:PHE:CE1	2.60	0.69
15:O:365:TRP:CZ2	15:O:407:ARG:CD	2.76	0.69
15:O:571:HIS:HB2	15:O:573:GLU:OE2	1.92	0.69
15:O:705:HIS:NE2	15:O:707:ASP:CB	2.50	0.69
17:Q:280:SER:OG	17:Q:301:SER:HB3	1.79	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:GLU:HB2	1:A:1645:LYS:HZ1	1.56	0.69
2:B:1139:LYS:O	2:B:1140:LYS:C	2.35	0.69
5:E:29:PHE:N	5:E:63:ASN:O	2.20	0.69
15:O:341:LEU:HD12	15:O:341:LEU:O	1.91	0.69
15:O:436:ILE:CG1	17:Q:141:TRP:CZ3	2.75	0.69
16:P:101:LYS:HZ2	16:P:152:LEU:N	1.90	0.69
16:P:204:ARG:O	16:P:208:PRO:HD3	1.93	0.69
15:O:294:PHE:O	15:O:295:VAL:C	2.36	0.69
15:O:464:LEU:N	15:O:481:PHE:O	2.22	0.69
15:O:653:SER:HB3	15:O:748:GLU:O	1.83	0.69
15:O:669:PHE:HE1	15:O:738:LYS:CE	1.81	0.69
16:P:381:MET:HE1	16:P:385:PHE:HD2	1.55	0.69
16:P:493:ILE:HD12	16:P:493:ILE:N	2.07	0.69
17:Q:27:ILE:HD13	17:Q:169:PRO:HB3	1.70	0.69
17:Q:345:LEU:O	17:Q:349:ILE:HG12	1.90	0.69
17:Q:361:ASP:O	17:Q:364:VAL:CG2	2.40	0.69
1:A:921:PRO:HG2	8:H:19:ARG:CG	2.18	0.69
1:A:1478:ALA:HA	9:I:21:ASN:HD21	1.57	0.69
8:H:37:LYS:HB2	8:H:126:GLU:HB3	1.75	0.69
8:H:104:PHE:HB3	8:H:112:ILE:HD11	1.75	0.69
15:O:438:TRP:NE1	15:O:489:PHE:HB3	2.07	0.69
15:O:475:ARG:HG3	15:O:497:VAL:C	2.12	0.69
15:O:619:GLU:HA	15:O:622:TYR:CD2	2.27	0.69
15:O:641:TRP:HE1	15:O:653:SER:HG	1.40	0.69
15:O:656:HIS:CD2	15:O:747:LEU:HA	2.28	0.69
15:O:698:LYS:HD3	16:P:125:PHE:HA	1.75	0.69
16:P:378:LEU:HD11	17:Q:235:ILE:N	2.08	0.69
1:A:18:ILE:HG23	2:B:1186:ASP:OD2	1.92	0.69
2:B:555:GLN:NE2	2:B:589:ASP:OD2	2.24	0.69
5:E:9:ILE:HG21	5:E:43:LYS:HG2	1.74	0.69
15:O:220:THR:N	15:O:228:ASN:O	2.26	0.69
15:O:314:GLN:CB	15:O:329:ILE:CG1	2.67	0.69
16:P:484:ALA:O	16:P:488:LEU:HB3	1.92	0.69
17:Q:140:ILE:HG22	17:Q:142:ARG:CD	2.23	0.69
17:Q:247:ILE:CB	17:Q:298:GLN:HG2	2.20	0.69
17:Q:354:LEU:HA	17:Q:359:MET:N	1.97	0.69
1:A:403:LEU:CG	1:A:406:LEU:HD21	2.23	0.69
2:B:1121:GLY:O	7:G:239:THR:CA	2.40	0.69
7:G:97:LYS:HA	7:G:97:LYS:HE3	1.74	0.69
8:H:6:PHE:O	8:H:59:ILE:N	2.20	0.69
15:O:275:GLU:HB3	15:O:285:MET:CG	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:323:ASN:CA	15:O:348:HIS:HB3	2.22	0.69
15:O:357:LEU:HD12	15:O:377:ARG:NH2	2.08	0.69
15:O:581:ALA:HB3	15:O:585:GLU:CG	2.22	0.69
15:O:659:LEU:O	15:O:742:TRP:CZ2	2.46	0.69
15:O:693:PHE:HD2	15:O:746:ARG:H	0.82	0.69
16:P:150:GLU:N	16:P:150:GLU:OE1	2.26	0.69
16:P:158:MET:C	16:P:192:TYR:HE1	1.99	0.69
16:P:330:TRP:HE3	16:P:331:ILE:HD13	1.57	0.69
17:Q:154:LYS:O	17:Q:154:LYS:HG2	1.93	0.69
17:Q:388:LYS:CE	17:Q:392:LEU:O	2.41	0.69
1:A:105:CYS:SG	21:A:1701:ZN:ZN	1.81	0.69
9:I:26:SER:HA	9:I:38:PRO:HB2	1.74	0.69
13:M:45:LYS:HE2	13:M:49:ASP:CA	2.22	0.69
15:O:746:ARG:NH2	16:P:173:SER:CB	2.56	0.69
16:P:219:ILE:HD13	17:Q:207:ASN:CA	2.16	0.69
16:P:284:LEU:HD13	16:P:302:ALA:HB2	1.63	0.69
16:P:344:THR:OG1	16:P:438:PHE:CA	2.40	0.69
16:P:490:ASP:C	16:P:491:PHE:CD1	2.71	0.69
17:Q:264:SER:C	17:Q:265:SER:OG	2.36	0.69
17:Q:385:ASN:O	17:Q:389:ASN:O	2.10	0.69
9:I:2:SER:O	9:I:9:PHE:N	2.26	0.69
15:O:475:ARG:CZ	15:O:496:THR:HG23	2.23	0.69
15:O:599:LYS:HZ3	16:P:275:GLU:CD	2.00	0.69
15:O:649:ILE:N	15:O:649:ILE:HD13	2.07	0.69
15:O:747:LEU:C	15:O:748:GLU:HG2	2.12	0.69
16:P:258:MET:CA	16:P:262:LEU:HD22	2.23	0.69
17:Q:212:HIS:O	17:Q:215:THR:CB	2.41	0.69
17:Q:277:ILE:HD12	17:Q:277:ILE:C	2.17	0.69
17:Q:285:VAL:HG23	17:Q:302:ARG:NH1	2.06	0.69
19:S:40:DT:H4'	19:S:41:DT:OP1	1.90	0.69
1:A:990:ILE:O	2:B:984:TRP:NE1	2.22	0.68
2:B:501:ARG:NH2	2:B:546:ALA:O	2.25	0.68
2:B:749:THR:OG1	2:B:763:ASP:OD1	2.11	0.68
12:L:48:CYS:HB3	12:L:51:CYS:SG	2.33	0.68
15:O:202:ILE:HG22	15:O:216:ILE:HG23	1.74	0.68
15:O:435:ARG:HG3	15:O:435:ARG:O	1.93	0.68
15:O:623:LEU:HD11	15:O:668:SER:C	2.18	0.68
16:P:479:LEU:HD23	16:P:479:LEU:O	1.92	0.68
17:Q:393:ILE:O	17:Q:395:LEU:CD2	2.40	0.68
1:A:571:HIS:NE2	7:G:53:TYR:OH	2.20	0.68
2:B:912:GLN:OE1	2:B:1041:ASN:ND2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:57:ILE:HG12	3:C:297:HIS:ND1	2.08	0.68
15:O:275:GLU:N	15:O:285:MET:O	2.26	0.68
15:O:290:GLU:HB3	15:O:338:LYS:O	1.93	0.68
15:O:390:GLN:O	15:O:391:THR:OG1	2.11	0.68
15:O:725:VAL:HG13	15:O:726:SER:N	2.09	0.68
17:Q:354:LEU:CD1	17:Q:359:MET:N	2.45	0.68
1:A:1478:ALA:CB	9:I:21:ASN:ND2	2.55	0.68
2:B:1138:ALA:O	2:B:1140:LYS:N	2.25	0.68
9:I:10:CYS:N	9:I:15:ASP:O	2.25	0.68
14:N:26:PRO:O	14:N:27:ASP:C	2.36	0.68
15:O:305:PHE:HA	15:O:317:ILE:O	1.93	0.68
15:O:686:TYR:HD1	15:O:689:GLN:CG	2.04	0.68
16:P:183:LYS:HD2	16:P:189:LYS:HD2	1.75	0.68
16:P:257:VAL:CG1	16:P:262:LEU:HA	2.21	0.68
1:A:52:LEU:HD11	1:A:60:ASN:HB3	1.75	0.68
1:A:722:PRO:CB	8:H:46:LEU:HD23	2.20	0.68
7:G:45:LEU:HD13	7:G:47:VAL:HG13	1.76	0.68
15:O:186:TYR:HE2	15:O:512:LEU:HD21	1.56	0.68
15:O:400:SER:HA	15:O:419:ARG:HH21	1.57	0.68
15:O:438:TRP:CH2	15:O:491:SER:HB2	2.25	0.68
15:O:624:GLN:HA	15:O:678:LEU:HD21	1.75	0.68
15:O:638:LEU:HD23	15:O:748:GLU:OE1	1.93	0.68
15:O:690:ASP:OD2	15:O:750:PRO:HD3	1.93	0.68
15:O:725:VAL:HG22	15:O:726:SER:N	2.08	0.68
16:P:157:HIS:CG	16:P:158:MET:N	2.61	0.68
16:P:209:ASN:CG	16:P:210:TYR:H	1.62	0.68
17:Q:25:ASN:CA	17:Q:28:SER:OG	2.40	0.68
17:Q:298:GLN:O	17:Q:299:THR:CB	2.42	0.68
15:O:178:VAL:O	15:O:243:LYS:HE2	1.93	0.68
15:O:470:SER:O	15:O:504:THR:HG22	1.93	0.68
15:O:600:GLU:OE1	16:P:269:TYR:HE1	1.70	0.68
15:O:649:ILE:HD13	15:O:649:ILE:H	1.58	0.68
16:P:119:LEU:HD21	16:P:165:LEU:CD1	2.23	0.68
2:B:111:ASP:O	2:B:112:GLY:O	2.12	0.68
2:B:155:VAL:HG23	17:Q:359:MET:CE	2.12	0.68
15:O:414:ILE:HD12	15:O:425:GLY:CA	2.20	0.68
15:O:715:TYR:CE2	15:O:734:LYS:HE3	2.27	0.68
16:P:115:GLN:OE1	16:P:161:THR:HG21	1.93	0.68
17:Q:267:GLY:O	17:Q:271:LEU:N	2.25	0.68
17:Q:394:GLY:O	17:Q:396:ASP:N	2.27	0.68
1:A:667:ARG:C	1:A:787:GLY:O	2.36	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:106:ASN:O	14:N:108:THR:N	2.27	0.68
15:O:593:VAL:CB	16:P:320:PHE:HD2	2.06	0.68
17:Q:355:THR:HB	17:Q:356:PRO:HD3	0.74	0.68
13:M:216:ILE:O	13:M:260:GLN:NE2	2.18	0.68
15:O:428:GLU:HG3	15:O:433:VAL:HG23	1.75	0.68
15:O:475:ARG:CD	16:P:367:PHE:HE2	2.01	0.68
16:P:115:GLN:NE2	16:P:190:MET:SD	2.67	0.68
2:B:77:LYS:HD3	2:B:440:PHE:CE2	2.28	0.68
15:O:214:LEU:C	15:O:236:ILE:HG12	2.15	0.68
15:O:354:PRO:CA	17:Q:131:TYR:OH	2.42	0.68
16:P:330:TRP:CZ3	16:P:334:LEU:HD11	2.29	0.68
17:Q:134:PRO:C	17:Q:135:GLU:O	2.37	0.68
1:A:530:TRP:HE3	1:A:531:PRO:CD	2.05	0.68
15:O:724:LEU:CD1	16:P:443:GLN:HG2	2.19	0.68
16:P:146:ASP:O	16:P:148:PRO:HD2	1.94	0.68
16:P:200:PRO:HB2	16:P:203:TRP:CB	2.20	0.68
16:P:328:LEU:HD13	16:P:472:ARG:HB3	1.76	0.68
16:P:371:GLU:O	16:P:374:THR:CB	2.42	0.68
17:Q:248:LYS:HZ2	17:Q:248:LYS:CB	2.06	0.68
1:A:618:TYR:CE1	2:B:783:MET:HB2	2.29	0.67
2:B:1121:GLY:O	7:G:239:THR:OG1	2.11	0.67
13:M:54:HIS:NE2	13:M:61:GLU:OE2	2.17	0.67
15:O:686:TYR:CB	15:O:692:THR:HG21	2.24	0.67
17:Q:283:ARG:C	17:Q:302:ARG:HB2	2.18	0.67
3:C:93:GLN:NE2	3:C:95:GLU:OE1	2.20	0.67
4:D:22:ILE:HG23	7:G:43:ILE:HD12	1.75	0.67
11:K:83:ASN:HB3	11:K:86:VAL:HG23	1.74	0.67
13:M:112:LYS:HG3	13:M:114:LYS:H	1.59	0.67
15:O:205:TYR:CD2	15:O:215:ASN:HB3	2.29	0.67
15:O:339:ARG:HG3	15:O:340:LYS:N	2.09	0.67
15:O:399:TRP:CD1	17:Q:134:PRO:HB3	2.29	0.67
15:O:433:VAL:HG23	15:O:434:ARG:N	2.08	0.67
15:O:571:HIS:HB3	15:O:573:GLU:CD	2.19	0.67
15:O:725:VAL:CB	16:P:450:THR:HA	2.23	0.67
16:P:344:THR:CA	16:P:436:LEU:O	2.42	0.67
16:P:378:LEU:HD12	17:Q:235:ILE:HD13	1.75	0.67
1:A:1026:GLN:HG3	1:A:1598:PHE:HD1	1.58	0.67
2:B:75:ASP:HB3	2:B:77:LYS:CD	2.12	0.67
2:B:221:SER:HB3	19:S:40:DT:H3'	1.77	0.67
2:B:817:ARG:HA	19:S:27:DT:OP1	1.94	0.67
3:C:164:ALA:HB3	3:C:189:PRO:HA	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:22:UNK:O	17:Q:314:TRP:CE2	2.47	0.67
16:P:119:LEU:HD21	16:P:165:LEU:HD11	1.75	0.67
16:P:158:MET:HE1	16:P:219:ILE:CG2	2.24	0.67
16:P:205:ILE:C	16:P:207:LEU:N	2.29	0.67
17:Q:21:TYR:CD2	17:Q:124:GLU:CB	2.78	0.67
17:Q:158:THR:CG2	17:Q:161:ASN:CB	2.67	0.67
17:Q:245:VAL:HG12	17:Q:250:LEU:HD11	1.40	0.67
14:N:95:ILE:HD11	14:N:136:VAL:HG23	1.77	0.67
14:N:95:ILE:HD11	14:N:136:VAL:HB	1.75	0.67
15:O:174:TRP:HD1	17:Q:199:LYS:HB2	1.59	0.67
15:O:378:SER:HB3	15:O:397:LYS:CG	2.21	0.67
15:O:419:ARG:NH1	15:O:420:GLU:OE1	2.28	0.67
15:O:760:ILE:HG21	16:P:138:LEU:HD13	1.75	0.67
16:P:177:TYR:CZ	16:P:226:LEU:HD22	2.29	0.67
16:P:356:VAL:HA	17:Q:211:ARG:NE	2.08	0.67
1:A:525:ASN:HB3	1:A:529:LYS:HB3	1.76	0.67
1:A:921:PRO:CG	8:H:19:ARG:CD	2.72	0.67
3:C:139:LYS:NZ	3:C:201:GLU:OE1	2.26	0.67
13:M:9:GLU:HA	14:N:73:ASP:HB3	1.76	0.67
15:O:396:ALA:CB	17:Q:140:ILE:HD12	2.25	0.67
16:P:222:PHE:HE2	17:Q:206:ARG:HD3	1.60	0.67
16:P:386:LEU:N	16:P:387:PRO:CD	2.53	0.67
2:B:305:ARG:HA	2:B:308:LEU:HD12	1.77	0.67
3:C:42:VAL:O	11:K:138:LYS:NZ	2.23	0.67
7:G:98:GLU:OE1	7:G:98:GLU:HA	1.94	0.67
15:O:415:LEU:CD2	15:O:451:ILE:HD13	2.24	0.67
15:O:656:HIS:HB2	15:O:747:LEU:N	2.08	0.67
16:P:246:GLU:C	16:P:286:LEU:H	2.03	0.67
16:P:332:LEU:HD12	16:P:332:LEU:C	2.18	0.67
15:O:260:LEU:HD21	15:O:273:ARG:O	1.90	0.67
15:O:653:SER:O	15:O:748:GLU:HB3	1.94	0.67
15:O:654:LEU:HG	15:O:748:GLU:CG	2.25	0.67
16:P:119:LEU:CD2	16:P:165:LEU:CD1	2.70	0.67
16:P:208:PRO:HB2	16:P:213:SER:HA	1.75	0.67
16:P:334:LEU:O	16:P:338:LEU:CG	2.35	0.67
17:Q:362:ALA:C	17:Q:364:VAL:N	2.53	0.67
19:S:28:DT:C2	19:S:29:DT:N3	2.55	0.67
10:J:7:CYS:HA	10:J:49:MET:HE3	1.77	0.67
13:M:280:LYS:HB2	13:M:316:ARG:HB3	1.77	0.67
15:O:657:SER:CB	15:O:746:ARG:CD	2.64	0.67
4:D:24:ALA:HA	7:G:43:ILE:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:38:PRO:HA	9:I:41:GLN:O	1.95	0.67
14:N:96:GLU:O	14:N:132:GLN:OE1	2.13	0.67
15:O:9:UNK:C	15:O:11:UNK:N	2.53	0.67
15:O:194:ARG:HB3	15:O:194:ARG:CZ	2.25	0.67
15:O:482:SER:OG	15:O:490:GLN:HB2	1.95	0.67
15:O:656:HIS:HD2	15:O:747:LEU:N	1.89	0.67
16:P:169:SER:OG	16:P:175:PRO:CD	2.43	0.67
16:P:263:PRO:HG2	16:P:266:PHE:CB	2.24	0.67
17:Q:304:HIS:O	17:Q:305:THR:O	2.12	0.67
17:Q:363:GLU:O	17:Q:367:ILE:N	2.26	0.67
17:Q:365:TRP:HA	17:Q:365:TRP:CE3	2.29	0.67
17:Q:386:ASP:O	17:Q:390:ASN:HA	1.95	0.67
1:A:1297:PHE:HE1	9:I:64:LYS:HD2	1.59	0.67
2:B:143:TRP:HB3	2:B:152:LEU:HB2	1.78	0.67
2:B:906:ARG:NH1	3:C:93:GLN:HG3	2.10	0.67
7:G:162:ILE:HG12	7:G:249:LEU:HD12	1.76	0.67
9:I:26:SER:CA	9:I:38:PRO:HB2	2.24	0.67
13:M:27:PHE:O	14:N:106:ASN:ND2	2.28	0.67
16:P:263:PRO:HB2	16:P:266:PHE:HD2	0.57	0.67
16:P:357:TYR:HE2	17:Q:204:GLU:N	1.92	0.67
17:Q:204:GLU:OE1	17:Q:204:GLU:N	2.28	0.67
17:Q:393:ILE:HG13	17:Q:400:LYS:NZ	2.10	0.67
1:A:1090:ASP:OD2	1:A:1093:SER:N	2.24	0.66
13:M:12:ILE:HG23	13:M:88:ILE:HD11	1.77	0.66
15:O:189:THR:HG21	15:O:259:ASN:ND2	2.09	0.66
15:O:381:ILE:HG23	15:O:391:THR:O	1.95	0.66
15:O:436:ILE:HG12	17:Q:141:TRP:CE3	2.30	0.66
15:O:538:LEU:HD12	15:O:538:LEU:O	1.94	0.66
15:O:616:SER:HA	15:O:619:GLU:N	2.09	0.66
15:O:659:LEU:C	15:O:663:LEU:CD2	2.68	0.66
17:Q:248:LYS:CA	17:Q:298:GLN:HE22	2.08	0.66
17:Q:274:MET:O	17:Q:277:ILE:CG2	2.41	0.66
17:Q:361:ASP:CG	17:Q:362:ALA:N	2.53	0.66
1:A:95:TYR:CZ	1:A:99:ARG:HD2	2.31	0.66
2:B:789:ILE:HD11	2:B:917:PHE:CE2	2.30	0.66
2:B:822:THR:O	2:B:824:HIS:CG	2.49	0.66
3:C:152:ASP:O	3:C:153:PRO:C	2.37	0.66
9:I:26:SER:O	9:I:38:PRO:CB	2.43	0.66
15:O:232:ASN:HD21	15:O:283:ASP:HA	1.59	0.66
15:O:346:ASN:OD1	15:O:347:LEU:N	2.27	0.66
16:P:334:LEU:CD2	16:P:449:GLN:OE1	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:181:THR:HA	19:S:10:DG:P	2.34	0.66
17:Q:388:LYS:HE3	17:Q:393:ILE:HA	1.76	0.66
7:G:43:ILE:HD13	7:G:122:LEU:HD11	1.78	0.66
15:O:174:TRP:CD1	17:Q:199:LYS:HD3	2.30	0.66
15:O:353:ASP:CG	17:Q:31:PHE:HD2	2.02	0.66
15:O:568:ILE:HG22	15:O:570:ASP:CB	2.24	0.66
15:O:635:ASN:ND2	15:O:685:TYR:CE1	2.62	0.66
15:O:698:LYS:HE2	16:P:126:PRO:HD3	1.76	0.66
16:P:172:LEU:HD23	16:P:172:LEU:C	2.20	0.66
16:P:200:PRO:HB2	16:P:203:TRP:H	1.60	0.66
16:P:360:LYS:N	16:P:361:PRO:CD	2.58	0.66
17:Q:350:SER:C	17:Q:352:TRP:N	2.50	0.66
2:B:822:THR:O	2:B:824:HIS:CD2	2.48	0.66
13:M:37:THR:O	13:M:62:TYR:OH	2.13	0.66
14:N:46:LYS:NZ	14:N:124:THR:O	2.26	0.66
15:O:15:UNK:C	15:O:20:UNK:CB	2.74	0.66
15:O:214:LEU:CB	15:O:236:ILE:CG2	2.11	0.66
15:O:214:LEU:HD12	15:O:238:LEU:HD12	1.78	0.66
15:O:414:ILE:CD1	15:O:425:GLY:HA3	2.24	0.66
15:O:529:GLU:HG2	15:O:530:ASN:H	1.61	0.66
15:O:750:PRO:C	15:O:752:LEU:N	2.52	0.66
16:P:222:PHE:CE2	17:Q:206:ARG:HD3	2.29	0.66
1:A:1248:ASP:OD1	1:A:1509:HIS:NE2	2.27	0.66
2:B:479:GLN:CB	19:S:39:DT:H3	2.08	0.66
2:B:1015:SER:HB3	2:B:1019:GLY:H	1.60	0.66
2:B:1063:ARG:NH2	20:T:20:DA:OP1	2.28	0.66
9:I:56:PHE:HB2	9:I:61:ARG:HH21	1.59	0.66
15:O:456:VAL:HB	15:O:463:LEU:HD12	1.77	0.66
15:O:603:ARG:NH2	16:P:268:PHE:HD1	1.84	0.66
16:P:372:GLU:C	16:P:374:THR:N	2.52	0.66
16:P:494:SER:OG	16:P:497:GLN:HG2	1.92	0.66
17:Q:154:LYS:O	17:Q:155:GLN:NE2	2.29	0.66
1:A:335:LEU:HA	1:A:338:VAL:HB	1.77	0.66
1:A:464:GLU:HB2	1:A:469:LYS:CB	2.24	0.66
1:A:1298:ASP:OD1	1:A:1299:ASN:N	2.28	0.66
2:B:366:GLY:O	2:B:370:LYS:N	2.23	0.66
7:G:236:VAL:HG13	7:G:244:SER:O	1.95	0.66
15:O:247:ILE:N	15:O:248:PRO:HD3	2.11	0.66
15:O:347:LEU:HD23	17:Q:152:ILE:HA	1.71	0.66
15:O:353:ASP:O	17:Q:28:SER:HB3	1.95	0.66
15:O:395:GLN:CD	15:O:397:LYS:HA	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:472:ARG:HH22	17:Q:200:THR:N	1.91	0.66
15:O:472:ARG:CD	17:Q:200:THR:CG2	2.73	0.66
15:O:623:LEU:HD22	15:O:674:GLU:OE1	1.96	0.66
16:P:167:LEU:HD21	16:P:234:CYS:SG	2.36	0.66
16:P:177:TYR:CE1	16:P:226:LEU:HD21	2.30	0.66
16:P:354:LYS:CE	16:P:362:THR:HG22	2.26	0.66
1:A:214:ASP:HB2	1:A:1605:THR:HG23	1.77	0.66
15:O:275:GLU:O	15:O:285:MET:N	2.29	0.66
16:P:200:PRO:HB2	16:P:203:TRP:N	2.11	0.66
16:P:258:MET:CG	16:P:262:LEU:CD2	2.61	0.66
17:Q:154:LYS:HB3	17:Q:156:LYS:HG3	1.76	0.66
1:A:529:LYS:O	1:A:530:TRP:O	2.13	0.66
3:C:197:ARG:N	3:C:200:GLN:OE1	2.28	0.66
7:G:144:HIS:HA	7:G:157:ILE:O	1.96	0.66
11:K:89:CYS:SG	11:K:105:ILE:HG13	2.36	0.66
15:O:202:ILE:HD12	15:O:202:ILE:N	2.09	0.66
15:O:313:GLN:C	15:O:314:GLN:CD	2.63	0.66
15:O:691:VAL:O	15:O:747:LEU:HD11	1.96	0.66
16:P:165:LEU:HD13	16:P:190:MET:HE1	1.78	0.66
17:Q:365:TRP:CD1	17:Q:417:ILE:HG13	2.31	0.66
1:A:406:LEU:CD2	1:A:416:ARG:CG	2.63	0.66
1:A:1299:ASN:HA	1:A:1302:TYR:CZ	2.31	0.66
2:B:740:LYS:HA	2:B:804:TYR:O	1.96	0.66
2:B:935:ASP:OD1	3:C:69:ARG:NH1	2.21	0.66
15:O:237:GLU:OE2	15:O:239:HIS:HE1	1.66	0.66
15:O:590:GLY:O	16:P:320:PHE:CE2	2.49	0.66
16:P:330:TRP:NE1	16:P:452:PHE:HD1	1.93	0.66
1:A:403:LEU:HA	1:A:406:LEU:CG	2.25	0.66
3:C:143:ASN:O	3:C:145:ASP:N	2.28	0.66
10:J:3:VAL:HG21	10:J:18:TRP:HB2	1.77	0.66
13:M:192:ASN:N	13:M:201:ILE:O	2.27	0.66
15:O:54:UNK:HA	15:O:554:ASN:CG	2.20	0.66
15:O:590:GLY:HA3	16:P:320:PHE:CE1	2.31	0.66
15:O:768:TYR:CB	16:P:145:ASN:ND2	2.49	0.66
1:A:416:ARG:HD3	1:A:419:ILE:HG12	1.77	0.65
2:B:51:ALA:HB1	2:B:60:LEU:HD13	1.77	0.65
2:B:822:THR:O	2:B:824:HIS:NE2	2.30	0.65
7:G:15:ARG:O	7:G:19:LYS:HB2	1.95	0.65
13:M:242:TYR:OH	13:M:246:LYS:NZ	2.22	0.65
15:O:216:ILE:C	15:O:234:THR:HG1	2.01	0.65
15:O:428:GLU:HA	15:O:435:ARG:CD	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:499:GLU:HG3	15:O:500:ILE:N	2.07	0.65
15:O:665:ASN:O	15:O:666:SER:C	2.36	0.65
16:P:158:MET:CB	16:P:192:TYR:OH	2.43	0.65
16:P:341:ARG:HH12	16:P:445:ARG:HH21	0.67	0.65
17:Q:140:ILE:HG22	17:Q:142:ARG:HD3	1.78	0.65
2:B:987:ASN:OD1	2:B:988:GLU:N	2.29	0.65
13:M:261:LEU:HD11	13:M:335:ILE:HG12	1.77	0.65
15:O:669:PHE:O	15:O:671:SER:N	2.24	0.65
16:P:151:GLU:CD	16:P:154:LEU:HD11	2.20	0.65
16:P:362:THR:HA	16:P:365:ASP:OD1	1.91	0.65
17:Q:246:GLN:HG2	17:Q:248:LYS:HG2	1.78	0.65
1:A:417:ARG:NH2	1:A:420:PHE:HB3	2.11	0.65
1:A:581:ILE:HD11	1:A:605:VAL:HG21	1.78	0.65
1:A:1478:ALA:CA	9:I:21:ASN:HD21	2.10	0.65
2:B:1182:LEU:HA	2:B:1185:LEU:HB2	1.78	0.65
7:G:237:HIS:C	7:G:244:SER:HB2	2.20	0.65
15:O:264:ILE:CG2	15:O:302:VAL:HB	2.27	0.65
15:O:275:GLU:CB	15:O:285:MET:HG3	2.25	0.65
15:O:302:VAL:O	15:O:303:VAL:HB	1.96	0.65
15:O:339:ARG:HG3	15:O:340:LYS:H	1.62	0.65
15:O:353:ASP:CB	17:Q:27:ILE:O	2.43	0.65
15:O:451:ILE:HG13	15:O:467:PHE:O	1.95	0.65
16:P:315:ASN:O	16:P:319:SER:HB2	1.96	0.65
16:P:334:LEU:CD2	16:P:449:GLN:CD	2.70	0.65
15:O:264:ILE:HG13	15:O:305:PHE:HE2	1.62	0.65
15:O:380:MET:H	15:O:394:VAL:CG2	2.10	0.65
15:O:395:GLN:NE2	15:O:397:LYS:HA	2.10	0.65
16:P:147:GLN:H	16:P:147:GLN:CD	1.98	0.65
16:P:247:ILE:HD11	16:P:286:LEU:HD13	1.74	0.65
16:P:287:TRP:CZ2	16:P:298:VAL:HB	2.30	0.65
16:P:354:LYS:HG2	16:P:362:THR:CB	2.24	0.65
17:Q:304:HIS:O	17:Q:305:THR:C	2.39	0.65
1:A:69:GLU:O	1:A:366:ARG:NH2	2.30	0.65
1:A:530:TRP:CE3	1:A:531:PRO:CD	2.79	0.65
1:A:1256:LYS:O	1:A:1499:ARG:NH2	2.29	0.65
1:A:1440:ASN:OD1	1:A:1443:GLN:N	2.21	0.65
2:B:16:PHE:CE1	2:B:978:ALA:HB2	2.31	0.65
2:B:114:SER:O	2:B:116:ALA:N	2.29	0.65
13:M:231:LEU:O	13:M:237:GLN:NE2	2.29	0.65
15:O:638:LEU:CD2	15:O:748:GLU:OE2	2.45	0.65
15:O:669:PHE:CD1	15:O:675:PHE:HB2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:738:LYS:HG2	15:O:739:ASP:N	2.10	0.65
17:Q:266:SER:CB	17:Q:268:LEU:HD12	2.27	0.65
1:A:68:ASP:OD1	1:A:69:GLU:N	2.29	0.65
1:A:689:ARG:NH2	11:K:87:GLU:O	2.30	0.65
2:B:94:LYS:HB3	2:B:146:ASN:HA	1.79	0.65
9:I:20:PRO:HB3	9:I:38:PRO:HG3	1.78	0.65
13:M:165:VAL:O	13:M:169:SER:N	2.20	0.65
15:O:302:VAL:O	15:O:320:ILE:HG13	1.97	0.65
15:O:372:ILE:O	15:O:373:LEU:HD23	1.95	0.65
15:O:408:ILE:O	15:O:409:ASP:HB2	1.95	0.65
15:O:599:LYS:CB	16:P:272:GLN:HE22	2.05	0.65
16:P:431:ASP:O	16:P:434:HIS:C	2.39	0.65
17:Q:248:LYS:HA	17:Q:298:GLN:HE22	1.58	0.65
2:B:214:PRO:O	2:B:380:LYS:NZ	2.30	0.65
2:B:1070:ARG:N	20:T:18:DG:OP1	2.25	0.65
3:C:196:LEU:O	3:C:197:ARG:NH1	2.30	0.65
15:O:437:SER:HB2	15:O:489:PHE:CE2	2.32	0.65
15:O:593:VAL:HG11	16:P:320:PHE:O	1.96	0.65
16:P:263:PRO:CG	16:P:266:PHE:CG	2.80	0.65
17:Q:390:ASN:O	17:Q:391:ASP:C	2.39	0.65
5:E:100:ILE:HG23	5:E:105:PHE:CD2	2.25	0.65
15:O:313:GLN:O	15:O:314:GLN:CD	2.39	0.65
15:O:421:ILE:HG22	15:O:439:LYS:CG	2.24	0.65
16:P:234:CYS:O	16:P:238:HIS:N	2.29	0.65
1:A:406:LEU:HD23	1:A:416:ARG:HE	1.62	0.65
1:A:592:GLN:NE2	1:A:592:GLN:HA	2.12	0.65
1:A:1014:SER:HB3	20:T:15:DT:H5"	1.77	0.65
8:H:80:ARG:NH2	8:H:83:GLN:OE1	2.30	0.65
9:I:38:PRO:N	9:I:40:SER:O	2.30	0.65
15:O:275:GLU:C	15:O:284:VAL:HG13	2.21	0.65
2:B:770:ASN:HD21	2:B:1032:TYR:HD1	1.45	0.65
2:B:814:ASN:O	2:B:816:ASN:CA	2.45	0.65
15:O:178:VAL:HG22	15:O:360:TRP:CB	2.22	0.65
16:P:202:SER:O	16:P:206:GLN:HG2	1.97	0.65
16:P:256:LEU:O	16:P:259:GLN:HB3	1.97	0.65
16:P:416:ILE:O	16:P:417:PHE:CD1	2.50	0.65
16:P:494:SER:C	16:P:496:GLU:N	2.41	0.65
17:Q:372:HIS:CE1	17:Q:407:HIS:NE2	2.65	0.65
19:S:19:DG:H1	20:T:36:DC:H42	1.44	0.65
4:D:27:LEU:HD11	7:G:23:GLN:HB3	1.79	0.64
9:I:27:ASN:CA	9:I:39:LYS:HB2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:273:ARG:HH11	15:O:274:ILE:CG2	2.08	0.64
15:O:301:GLN:HG2	15:O:321:LYS:NZ	2.13	0.64
15:O:391:THR:CG2	15:O:393:VAL:HG13	2.27	0.64
15:O:578:PHE:CZ	16:P:312:LEU:CD1	2.67	0.64
16:P:200:PRO:HA	16:P:203:TRP:HD1	1.62	0.64
16:P:210:TYR:HB2	20:T:43:DT:O4'	1.97	0.64
17:Q:350:SER:C	17:Q:352:TRP:H	2.05	0.64
1:A:1039:ARG:HH21	5:E:170:LEU:HD23	1.61	0.64
1:A:1070:LEU:HD23	1:A:1154:LEU:HD21	1.79	0.64
13:M:59:ARG:HB2	13:M:60:LEU:HD12	1.79	0.64
15:O:274:ILE:HG23	15:O:274:ILE:O	1.97	0.64
15:O:302:VAL:HA	15:O:320:ILE:HG13	1.79	0.64
15:O:309:PRO:CD	15:O:365:TRP:CD1	2.78	0.64
15:O:410:ASP:O	15:O:411:LYS:HB2	1.96	0.64
15:O:472:ARG:NH1	17:Q:203:SER:OG	2.30	0.64
2:B:442:ASP:HB3	2:B:445:TYR:HB2	1.78	0.64
2:B:772:VAL:O	2:B:946:ASP:N	2.31	0.64
15:O:377:ARG:HG3	15:O:378:SER:N	2.13	0.64
15:O:616:SER:HA	15:O:620:ASP:N	2.01	0.64
16:P:257:VAL:O	16:P:262:LEU:HB2	1.96	0.64
16:P:341:ARG:NH1	16:P:341:ARG:CG	2.42	0.64
16:P:356:VAL:C	16:P:358:PRO:HD3	2.21	0.64
16:P:399:SER:CB	16:P:402:MET:HG3	2.26	0.64
17:Q:148:ASN:OD1	17:Q:149:LYS:N	2.31	0.64
20:T:29:DC:H2'	20:T:30:DT:C6	2.32	0.64
2:B:789:ILE:HD11	2:B:917:PHE:HE2	1.62	0.64
13:M:374:ALA:HB2	13:M:392:TYR:HD2	1.63	0.64
15:O:173:PHE:O	17:Q:198:LEU:HD11	1.96	0.64
15:O:367:SER:O	15:O:368:HIS:HB3	1.95	0.64
15:O:375:PHE:CB	15:O:380:MET:HA	2.27	0.64
15:O:389:TRP:CH2	17:Q:147:GLN:C	2.76	0.64
16:P:167:LEU:HD23	16:P:239:PHE:CD2	2.33	0.64
17:Q:349:ILE:HD11	17:Q:368:TYR:CE1	2.30	0.64
17:Q:355:THR:CG2	17:Q:356:PRO:HD3	2.24	0.64
7:G:52:MET:HE2	7:G:53:TYR:CZ	2.33	0.64
7:G:85:GLU:HB2	7:G:123:TYR:HE1	1.63	0.64
13:M:199:GLU:HG2	13:M:342:PHE:HE2	1.63	0.64
13:M:265:LEU:HB2	13:M:335:ILE:HG21	1.79	0.64
15:O:365:TRP:NE1	15:O:407:ARG:NE	2.46	0.64
15:O:399:TRP:NE1	17:Q:134:PRO:CB	2.60	0.64
15:O:412:ASN:O	15:O:426:ALA:HB1	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:420:GLU:HA	15:O:442:LEU:HD11	1.79	0.64
15:O:768:TYR:HA	15:O:771:ILE:HD12	1.79	0.64
16:P:177:TYR:CZ	16:P:226:LEU:HD21	2.32	0.64
17:Q:2:PHE:HD1	17:Q:218:ASP:OD1	1.81	0.64
17:Q:155:GLN:O	17:Q:157:MET:N	2.31	0.64
17:Q:354:LEU:HG	17:Q:359:MET:CB	2.02	0.64
19:S:39:DT:C2'	19:S:40:DT:OP1	2.46	0.64
15:O:175:ASP:HB3	17:Q:195:LEU:HB3	1.78	0.64
15:O:227:LEU:HD12	15:O:549:TYR:CE1	2.32	0.64
15:O:436:ILE:HG12	17:Q:141:TRP:CZ3	2.33	0.64
15:O:474:LYS:HE2	15:O:498:LEU:HG	1.79	0.64
15:O:775:TRP:CZ3	16:P:134:LYS:HG3	2.32	0.64
16:P:104:PHE:HA	16:P:211:TYR:CD1	2.32	0.64
1:A:24:ILE:O	1:A:28:SER:N	2.31	0.64
1:A:1092:GLU:O	1:A:1096:LYS:N	2.29	0.64
13:M:170:LYS:C	13:M:172:LEU:H	2.05	0.64
15:O:239:HIS:O	15:O:240:SER:OG	2.11	0.64
15:O:323:ASN:C	15:O:348:HIS:HB3	2.21	0.64
15:O:383:ILE:HG23	15:O:390:GLN:NE2	2.10	0.64
16:P:198:ILE:HD13	16:P:198:ILE:H	1.63	0.64
16:P:386:LEU:N	16:P:387:PRO:HD2	2.10	0.64
17:Q:136:LYS:HB3	17:Q:304:HIS:HD2	1.53	0.64
19:S:17:DT:H2''	19:S:18:DA:C8	2.33	0.64
19:S:28:DT:C4'	19:S:29:DT:H5'	2.25	0.64
1:A:316:LEU:HD12	13:M:161:ILE:HG21	1.80	0.64
1:A:477:ASN:ND2	2:B:1048:SER:O	2.30	0.64
2:B:455:GLU:OE1	2:B:455:GLU:N	2.29	0.64
2:B:509:PHE:HA	2:B:512:LEU:HG	1.80	0.64
2:B:1138:ALA:C	2:B:1140:LYS:N	2.56	0.64
7:G:97:LYS:HD2	7:G:97:LYS:N	2.12	0.64
15:O:202:ILE:CG2	15:O:216:ILE:HG23	2.27	0.64
15:O:215:ASN:HA	15:O:236:ILE:HG12	1.80	0.64
15:O:244:SER:OG	15:O:264:ILE:HD12	1.98	0.64
15:O:254:ILE:HG22	15:O:255:GLY:N	2.12	0.64
15:O:422:ILE:HG13	15:O:440:HIS:CD2	2.33	0.64
15:O:511:ILE:O	15:O:512:LEU:HB3	1.98	0.64
15:O:511:ILE:HD13	15:O:536:ASP:CG	2.22	0.64
16:P:219:ILE:CD1	17:Q:207:ASN:CA	2.70	0.64
1:A:414:GLU:O	1:A:417:ARG:HB2	1.98	0.64
1:A:439:ASP:OD1	1:A:458:GLN:NE2	2.30	0.64
1:A:949:GLN:HA	1:A:981:TYR:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:454:GLN:O	15:O:465:VAL:HG22	1.98	0.64
15:O:641:TRP:NE1	15:O:653:SER:HA	2.12	0.64
1:A:417:ARG:CZ	1:A:420:PHE:CD2	2.81	0.64
13:M:268:LEU:HD12	13:M:335:ILE:HD11	1.80	0.64
15:O:396:ALA:O	15:O:397:LYS:HB2	1.96	0.64
15:O:665:ASN:C	15:O:667:ASP:N	2.55	0.64
16:P:147:GLN:O	16:P:151:GLU:HB2	1.95	0.64
16:P:492:ALA:C	16:P:493:ILE:CD1	2.59	0.64
17:Q:10:ASN:O	17:Q:10:ASN:ND2	2.30	0.64
17:Q:355:THR:HA	17:Q:359:MET:CG	2.19	0.64
1:A:195:LYS:HG3	1:A:201:ARG:HH21	1.63	0.63
2:B:796:ARG:HD2	10:J:8:PHE:HA	1.80	0.63
8:H:102:TYR:CZ	8:H:115:TYR:HB3	2.33	0.63
15:O:588:SER:HB3	16:P:512:ARG:HH12	1.61	0.63
15:O:659:LEU:C	15:O:663:LEU:HD21	2.22	0.63
16:P:147:GLN:O	16:P:151:GLU:CG	2.45	0.63
16:P:337:SER:CB	16:P:448:LYS:HD3	2.27	0.63
1:A:258:GLU:HA	1:A:261:ILE:HB	1.80	0.63
1:A:833:LEU:HA	1:A:944:MET:HE2	1.79	0.63
1:A:921:PRO:HG2	8:H:19:ARG:HD2	1.80	0.63
15:O:212:SER:O	15:O:242:ILE:HD11	1.98	0.63
15:O:271:ILE:HB	15:O:289:SER:OG	1.97	0.63
15:O:356:GLU:OE2	15:O:397:LYS:HD2	1.98	0.63
15:O:704:LEU:O	15:O:704:LEU:HG	1.99	0.63
16:P:219:ILE:HG12	17:Q:206:ARG:CG	2.22	0.63
16:P:378:LEU:HD21	17:Q:234:LYS:HB3	1.79	0.63
17:Q:21:TYR:HE2	17:Q:291:ARG:NH2	1.96	0.63
1:A:417:ARG:O	1:A:417:ARG:HD3	1.97	0.63
1:A:1200:MET:HG2	1:A:1573:TYR:CD2	2.34	0.63
15:O:350:THR:HG1	15:O:352:PHE:HE1	1.46	0.63
15:O:357:LEU:HB2	15:O:377:ARG:HE	1.62	0.63
15:O:620:ASP:HB3	15:O:674:GLU:HG2	1.78	0.63
15:O:683:PHE:HE1	15:O:692:THR:HG1	1.45	0.63
15:O:702:LEU:CD1	16:P:125:PHE:CE1	2.82	0.63
15:O:714:PHE:CE2	15:O:718:LEU:HD22	2.33	0.63
15:O:746:ARG:O	15:O:747:LEU:HD22	1.99	0.63
16:P:359:ASP:OD1	16:P:361:PRO:HD3	1.98	0.63
16:P:386:LEU:C	16:P:388:THR:HG22	2.23	0.63
1:A:372:LYS:HD2	1:A:377:VAL:HG22	1.81	0.63
1:A:865:ASP:OD1	1:A:866:LYS:N	2.31	0.63
2:B:251:HIS:HE1	2:B:261:ARG:HD3	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:104:PHE:CE1	8:H:114:VAL:HG13	2.34	0.63
13:M:272:TYR:O	13:M:275:ARG:NH1	2.31	0.63
15:O:261:VAL:HG12	15:O:262:GLY:N	2.14	0.63
15:O:352:PHE:HB2	15:O:355:GLU:HB2	1.81	0.63
15:O:580:ASN:CB	16:P:506:LYS:HZ1	2.10	0.63
16:P:372:GLU:O	16:P:374:THR:N	2.32	0.63
17:Q:354:LEU:HD11	17:Q:359:MET:C	2.20	0.63
17:Q:384:VAL:N	17:Q:388:LYS:O	2.32	0.63
1:A:416:ARG:HD2	1:A:419:ILE:CG1	2.24	0.63
1:A:518:GLU:OE2	1:A:582:LYS:NZ	2.25	0.63
1:A:1640:ARG:HD2	1:A:1647:ASN:HA	1.81	0.63
2:B:576:THR:HG21	2:B:595:TRP:CD1	2.33	0.63
2:B:811:LEU:HB2	2:B:899:GLN:HB3	1.80	0.63
7:G:140:GLN:OE1	7:G:216:HIS:ND1	2.31	0.63
15:O:237:GLU:O	15:O:238:LEU:HD23	1.98	0.63
15:O:365:TRP:CZ2	15:O:407:ARG:HD3	2.32	0.63
15:O:574:TRP:CH2	16:P:484:ALA:CB	2.81	0.63
15:O:672:ILE:N	15:O:673:PRO:HD2	2.13	0.63
16:P:104:PHE:HE1	16:P:215:LEU:HG	1.64	0.63
16:P:184:TRP:CH2	16:P:192:TYR:CD2	2.86	0.63
16:P:343:THR:OG1	16:P:347:SER:N	2.30	0.63
1:A:406:LEU:HD12	1:A:407:GLN:CA	2.27	0.63
1:A:406:LEU:CG	1:A:407:GLN:H	2.12	0.63
1:A:1299:ASN:HA	1:A:1302:TYR:CE2	2.34	0.63
8:H:48:PRO:O	8:H:146:ARG:NH1	2.32	0.63
15:O:610:LEU:HD21	15:O:614:GLU:OE2	1.98	0.63
16:P:122:GLU:OE1	16:P:123:MET:HG3	1.97	0.63
16:P:354:LYS:HB3	16:P:362:THR:CB	2.28	0.63
16:P:378:LEU:HD22	17:Q:234:LYS:HD3	1.81	0.63
1:A:63:SER:O	2:B:1155:ASP:HB3	1.99	0.63
1:A:464:GLU:CG	1:A:469:LYS:HB3	2.29	0.63
1:A:530:TRP:HB3	1:A:531:PRO:HD2	0.64	0.63
1:A:1037:SER:OG	1:A:1039:ARG:NH1	2.32	0.63
2:B:225:ARG:NH1	2:B:225:ARG:O	2.31	0.63
2:B:576:THR:HG22	2:B:578:ALA:H	1.64	0.63
5:E:83:CYS:HB3	5:E:112:TYR:HA	1.81	0.63
15:O:276:SER:HA	15:O:284:VAL:HA	1.81	0.63
15:O:303:VAL:HG12	15:O:361:LYS:O	1.99	0.63
15:O:347:LEU:HD22	17:Q:152:ILE:CG1	2.26	0.63
15:O:347:LEU:HB2	17:Q:151:PRO:O	1.99	0.63
15:O:390:GLN:OE1	17:Q:151:PRO:HD3	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:483:ILE:O	16:P:487:LEU:HG	1.99	0.63
2:B:1039:MET:HG2	2:B:1041:ASN:HB3	1.81	0.63
3:C:283:GLU:H	3:C:283:GLU:CD	2.05	0.63
7:G:95:LEU:HD12	7:G:95:LEU:C	2.23	0.63
8:H:5:LEU:O	8:H:133:ASN:ND2	2.32	0.63
15:O:309:PRO:CG	15:O:365:TRP:CD1	2.77	0.63
15:O:604:ILE:HG23	15:O:732:LEU:CD2	2.29	0.63
15:O:613:HIS:NE2	15:O:619:GLU:HG3	2.14	0.63
16:P:247:ILE:HG22	16:P:302:ALA:CB	2.28	0.63
16:P:341:ARG:HB2	16:P:445:ARG:HH22	1.64	0.63
17:Q:354:LEU:CA	17:Q:359:MET:N	2.51	0.63
1:A:1638:SER:HA	1:A:1641:ILE:HD12	1.81	0.63
7:G:69:LEU:HD12	7:G:72:LYS:HD3	1.80	0.63
11:K:58:GLY:O	11:K:59:THR:CG2	2.47	0.63
13:M:57:ASN:HD21	13:M:60:LEU:HB2	1.64	0.63
13:M:261:LEU:HG	13:M:335:ILE:HG23	1.81	0.63
15:O:369:PHE:CZ	15:O:431:ASP:C	2.77	0.63
15:O:440:HIS:CE1	15:O:481:PHE:HZ	2.02	0.63
15:O:489:PHE:O	15:O:490:GLN:HG2	1.98	0.63
15:O:578:PHE:CZ	16:P:312:LEU:HA	2.32	0.63
15:O:627:GLY:O	15:O:630:LEU:HG	1.98	0.63
15:O:706:GLU:OE2	16:P:346:GLU:CD	2.41	0.63
16:P:176:VAL:HG22	16:P:177:TYR:N	2.14	0.63
16:P:360:LYS:HG3	16:P:363:SER:HB3	1.79	0.63
19:S:4:DG:N1	20:T:51:DC:O2	2.30	0.63
19:S:25:DT:H2'	19:S:26:DT:C7	2.28	0.63
20:T:22:DG:C2'	20:T:23:DA:C8	2.79	0.63
15:O:366:PHE:HB2	15:O:373:LEU:CD1	2.29	0.62
15:O:620:ASP:HB3	15:O:674:GLU:CD	2.24	0.62
15:O:656:HIS:HB3	15:O:748:GLU:HB2	1.80	0.62
15:O:779:ASP:O	16:P:199:LEU:HD21	1.99	0.62
16:P:198:ILE:O	16:P:199:LEU:HB2	1.99	0.62
16:P:210:TYR:CD1	20:T:43:DT:H4'	2.34	0.62
16:P:338:LEU:O	16:P:339:THR:C	2.42	0.62
19:S:6:DG:H22	20:T:50:DA:H1'	1.64	0.62
1:A:864:LEU:HD11	1:A:878:ARG:HD2	1.79	0.62
1:A:1019:LEU:HD21	1:A:1222:LEU:HD23	1.81	0.62
14:N:56:ILE:HG23	14:N:137:PHE:HB2	1.80	0.62
15:O:178:VAL:CG2	15:O:360:TRP:HB3	2.22	0.62
15:O:194:ARG:CG	15:O:197:ARG:CZ	2.76	0.62
15:O:296:GLU:OE1	15:O:296:GLU:N	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:414:ILE:HB	15:O:425:GLY:O	1.99	0.62
15:O:577:LEU:HD22	16:P:502:ILE:CG2	2.29	0.62
15:O:657:SER:O	15:O:658:LYS:CG	2.47	0.62
16:P:120:ILE:O	16:P:124:ARG:N	2.31	0.62
16:P:494:SER:OG	16:P:498:LEU:N	2.33	0.62
17:Q:302:ARG:CG	17:Q:303:THR:N	2.42	0.62
17:Q:393:ILE:HG12	17:Q:395:LEU:HB2	1.80	0.62
2:B:811:LEU:HD12	2:B:899:GLN:HA	1.81	0.62
15:O:270:GLN:OE1	15:O:291:PRO:HB3	1.99	0.62
16:P:118:TRP:HH2	16:P:189:LYS:CE	2.03	0.62
16:P:200:PRO:HG2	16:P:204:ARG:HG3	1.81	0.62
16:P:328:LEU:CD1	16:P:472:ARG:HB3	2.29	0.62
16:P:341:ARG:CB	16:P:445:ARG:NH2	2.62	0.62
16:P:354:LYS:CG	16:P:362:THR:CB	2.77	0.62
16:P:367:PHE:HZ	17:Q:1:MET:CE	2.12	0.62
1:A:65:CYS:HB3	1:A:75:HIS:HE2	1.62	0.62
1:A:506:THR:HA	1:A:579:ARG:O	1.99	0.62
1:A:591:ARG:HH21	1:A:631:ASP:CB	2.11	0.62
2:B:74:PHE:HE2	2:B:343:ASP:HB2	1.65	0.62
7:G:242:VAL:O	7:G:243:VAL:O	2.17	0.62
13:M:42:LYS:O	14:N:30:LYS:N	2.32	0.62
15:O:590:GLY:HA2	16:P:320:PHE:CD1	2.34	0.62
15:O:596:ILE:HG21	16:P:317:MET:CE	2.29	0.62
16:P:113:LYS:HA	16:P:116:ILE:HG12	1.81	0.62
16:P:369:TRP:CZ3	17:Q:219:LEU:CD1	2.82	0.62
16:P:419:LEU:CA	17:Q:233:TYR:OH	2.47	0.62
17:Q:280:SER:OG	17:Q:301:SER:CB	2.47	0.62
17:Q:354:LEU:HD12	17:Q:359:MET:CA	2.16	0.62
20:T:8:DA:H2"	20:T:9:DA:C8	2.34	0.62
1:A:596:HIS:CD2	1:A:598:ALA:HB3	2.35	0.62
15:O:347:LEU:CD2	17:Q:152:ILE:CB	2.77	0.62
15:O:433:VAL:HG12	17:Q:144:VAL:CG1	2.17	0.62
15:O:499:GLU:CG	15:O:500:ILE:HD12	2.29	0.62
16:P:137:TRP:CD1	16:P:141:LEU:HD11	2.34	0.62
16:P:154:LEU:H	16:P:154:LEU:HD22	1.64	0.62
16:P:419:LEU:HA	17:Q:233:TYR:OH	1.99	0.62
17:Q:158:THR:HG23	17:Q:161:ASN:CB	2.27	0.62
17:Q:248:LYS:N	17:Q:298:GLN:HE22	1.97	0.62
17:Q:362:ALA:C	17:Q:364:VAL:H	2.08	0.62
1:A:233:CYS:O	1:A:237:GLY:HA2	2.00	0.62
1:A:721:LYS:CG	1:A:722:PRO:HD3	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:202:LEU:HD21	2:B:499:HIS:HB3	1.81	0.62
13:M:222:LEU:HD13	13:M:253:PRO:HA	1.82	0.62
15:O:260:LEU:HD23	15:O:273:ARG:C	2.08	0.62
15:O:275:GLU:HB3	15:O:285:MET:C	2.21	0.62
15:O:304:ASP:OD2	15:O:363:ILE:HG13	2.00	0.62
15:O:314:GLN:CD	15:O:329:ILE:N	2.56	0.62
15:O:469:TYR:HB3	15:O:476:ILE:CD1	2.30	0.62
16:P:101:LYS:NZ	16:P:152:LEU:N	2.46	0.62
16:P:101:LYS:CE	16:P:152:LEU:HA	2.30	0.62
16:P:137:TRP:NE1	16:P:141:LEU:HD21	2.14	0.62
16:P:183:LYS:HD3	16:P:189:LYS:HZ1	1.49	0.62
16:P:257:VAL:HB	16:P:262:LEU:HD13	1.80	0.62
17:Q:369:ALA:O	17:Q:372:HIS:N	2.32	0.62
1:A:721:LYS:HG2	8:H:94:ASP:C	2.23	0.62
1:A:1097:TYR:OH	1:A:1121:ASP:O	2.14	0.62
15:O:291:PRO:HA	15:O:339:ARG:HH21	1.64	0.62
15:O:461:HIS:HB3	15:O:484:ARG:HG2	1.81	0.62
15:O:686:TYR:O	15:O:690:ASP:O	2.18	0.62
15:O:706:GLU:HG3	16:P:438:PHE:CG	2.32	0.62
16:P:108:PHE:CE2	16:P:156:LEU:CD2	2.82	0.62
16:P:150:GLU:O	16:P:152:LEU:HD21	1.99	0.62
17:Q:29:ARG:NH1	17:Q:29:ARG:HB2	2.15	0.62
19:S:39:DT:H73	19:S:41:DT:H73	1.82	0.62
1:A:463:LYS:O	1:A:463:LYS:HD2	1.98	0.62
2:B:341:SER:CB	2:B:342:PRO:HD3	1.96	0.62
9:I:40:SER:O	9:I:41:GLN:O	2.17	0.62
9:I:43:SER:O	9:I:45:LEU:HG	1.99	0.62
13:M:81:PHE:HA	13:M:87:SER:O	1.99	0.62
15:O:472:ARG:NH2	17:Q:200:THR:HG22	2.11	0.62
17:Q:8:LEU:O	17:Q:10:ASN:N	2.33	0.62
20:T:21:DT:H2''	20:T:22:DG:O5'	1.98	0.62
2:B:415:GLU:HG2	2:B:472:SER:CB	2.29	0.62
8:H:115:TYR:CE1	8:H:124:ARG:HG3	2.28	0.62
15:O:326:ILE:HG12	15:O:344:ILE:HD13	1.82	0.62
15:O:329:ILE:HG22	15:O:340:LYS:N	2.15	0.62
15:O:405:TYR:HE2	15:O:414:ILE:HG23	1.61	0.62
15:O:433:VAL:HG21	17:Q:144:VAL:HB	1.81	0.62
15:O:540:LYS:C	15:O:541:LEU:HD12	2.25	0.62
15:O:651:SER:C	15:O:653:SER:N	2.50	0.62
15:O:705:HIS:NE2	15:O:709:PRO:HD3	2.14	0.62
15:O:771:ILE:HG21	16:P:105:LEU:CD2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:113:LYS:O	16:P:116:ILE:CG1	2.47	0.62
16:P:156:LEU:CD1	16:P:156:LEU:H	2.12	0.62
16:P:222:PHE:O	16:P:225:GLN:HB2	1.99	0.62
16:P:284:LEU:HD11	16:P:305:ARG:HH11	1.65	0.62
2:B:1038:HIS:CE1	18:R:5:G:H5'	2.35	0.62
5:E:128:PRO:CB	5:E:129:PRO:HD3	2.29	0.62
15:O:274:ILE:CD1	15:O:284:VAL:HG11	2.30	0.62
15:O:506:THR:HG22	15:O:540:LYS:O	2.00	0.62
15:O:582:ASP:O	15:O:586:LYS:HB3	1.99	0.62
16:P:154:LEU:O	16:P:155:GLN:C	2.42	0.62
16:P:155:GLN:HB2	20:T:44:DC:H5''	1.81	0.62
16:P:223:ASN:HA	16:P:492:ALA:O	2.00	0.62
16:P:258:MET:CB	16:P:262:LEU:HD22	2.28	0.62
17:Q:29:ARG:HB2	17:Q:29:ARG:CZ	2.29	0.62
17:Q:385:ASN:HD22	17:Q:385:ASN:H	1.48	0.62
1:A:1295:ARG:HA	1:A:1469:TRP:HB3	1.81	0.61
2:B:840:LEU:HD11	2:B:857:PRO:HB2	1.81	0.61
5:E:94:LYS:HD3	5:E:123:LEU:HD22	1.82	0.61
15:O:194:ARG:HB3	15:O:194:ARG:NH1	2.14	0.61
15:O:351:ILE:HG13	15:O:351:ILE:O	1.99	0.61
15:O:407:ARG:HH11	15:O:411:LYS:HG2	1.65	0.61
15:O:440:HIS:HE1	15:O:481:PHE:CE1	2.15	0.61
15:O:620:ASP:HB3	15:O:674:GLU:CG	2.30	0.61
15:O:653:SER:CB	15:O:749:LYS:HG2	2.29	0.61
15:O:660:LYS:CB	15:O:663:LEU:HD21	2.08	0.61
16:P:113:LYS:HA	16:P:116:ILE:CG1	2.30	0.61
16:P:259:GLN:HE21	16:P:259:GLN:C	2.06	0.61
17:Q:302:ARG:HH21	17:Q:303:THR:HG23	1.61	0.61
17:Q:381:ARG:C	17:Q:383:PHE:H	2.07	0.61
1:A:789:SER:O	1:A:790:LYS:O	2.18	0.61
2:B:200:GLU:CD	2:B:736:ARG:HH22	2.08	0.61
2:B:416:LYS:HG3	2:B:461:MET:HE3	1.80	0.61
2:B:613:VAL:HB	2:B:658:LEU:HD12	1.82	0.61
2:B:977:ILE:HD12	2:B:978:ALA:O	2.00	0.61
9:I:3:VAL:HG21	9:I:43:SER:HB3	1.73	0.61
9:I:38:PRO:C	9:I:40:SER:N	2.47	0.61
13:M:231:LEU:HA	13:M:234:PHE:HD2	1.65	0.61
15:O:214:LEU:H	15:O:236:ILE:CB	2.12	0.61
15:O:325:SER:O	15:O:326:ILE:HD13	2.00	0.61
15:O:421:ILE:HG13	17:Q:138:PHE:HE2	1.65	0.61
16:P:136:ILE:HD12	16:P:168:ALA:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:257:VAL:CB	16:P:262:LEU:HD13	2.28	0.61
16:P:292:GLU:OE1	16:P:294:HIS:NE2	2.27	0.61
16:P:497:GLN:O	16:P:501:CYS:N	2.21	0.61
17:Q:246:GLN:O	17:Q:248:LYS:HB2	1.99	0.61
17:Q:358:PHE:HD1	17:Q:365:TRP:CZ3	2.18	0.61
1:A:1527:GLN:HG3	1:A:1530:TRP:CZ3	2.35	0.61
2:B:623:ASP:O	2:B:648:ARG:NH1	2.27	0.61
2:B:825:PHE:O	12:L:42:ARG:NH2	2.34	0.61
3:C:244:ALA:HB1	3:C:265:ALA:HB2	1.82	0.61
4:D:89:LEU:HA	4:D:92:ILE:HD12	1.82	0.61
14:N:95:ILE:HD13	14:N:136:VAL:CG2	2.10	0.61
15:O:698:LYS:HE3	16:P:124:ARG:O	2.00	0.61
15:O:698:LYS:O	16:P:125:PHE:CZ	2.52	0.61
15:O:715:TYR:CE1	15:O:734:LYS:CG	2.75	0.61
16:P:330:TRP:CZ3	16:P:334:LEU:CD1	2.84	0.61
16:P:354:LYS:HZ3	16:P:362:THR:CG2	2.13	0.61
1:A:332:GLN:HE22	1:A:350:VAL:H	1.48	0.61
1:A:1070:LEU:HD12	1:A:1073:TYR:HB2	1.82	0.61
2:B:748:GLN:OE1	2:B:770:ASN:N	2.22	0.61
2:B:815:ARG:NH2	19:S:26:DT:C5'	2.63	0.61
3:C:272:LYS:HA	14:N:175:TYR:CE2	2.35	0.61
15:O:389:TRP:CE3	17:Q:148:ASN:O	2.48	0.61
15:O:391:THR:HG22	15:O:392:GLU:N	2.15	0.61
15:O:657:SER:HB2	15:O:746:ARG:HA	1.83	0.61
15:O:660:LYS:HB3	15:O:663:LEU:HD21	1.82	0.61
16:P:104:PHE:HD1	16:P:211:TYR:HD1	1.22	0.61
16:P:284:LEU:CD1	16:P:302:ALA:C	2.73	0.61
17:Q:142:ARG:HH11	17:Q:142:ARG:CG	2.14	0.61
17:Q:266:SER:OG	17:Q:268:LEU:HD12	2.01	0.61
2:B:1177:ALA:O	2:B:1180:PHE:HB3	2.00	0.61
8:H:56:THR:O	8:H:144:ILE:HA	2.00	0.61
15:O:223:ASN:OD1	15:O:223:ASN:N	2.33	0.61
15:O:725:VAL:HG11	16:P:450:THR:HA	1.83	0.61
15:O:780:ILE:CA	16:P:199:LEU:HD21	2.31	0.61
16:P:447:ALA:O	16:P:450:THR:HG22	2.01	0.61
1:A:117:ARG:HH11	1:A:117:ARG:CG	2.14	0.61
1:A:1603:MET:HG2	1:A:1612:LYS:HG2	1.83	0.61
2:B:146:ASN:HB3	2:B:149:GLU:HB2	1.83	0.61
15:O:14:UNK:CB	15:O:438:TRP:HE3	2.14	0.61
16:P:386:LEU:C	16:P:388:THR:CG2	2.73	0.61
2:B:770:ASN:ND2	2:B:1032:TYR:HD1	1.97	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:70:ILE:HG23	3:C:74:GLU:HB2	1.81	0.61
15:O:275:GLU:HG2	15:O:285:MET:CG	2.31	0.61
15:O:301:GLN:HG2	15:O:321:LYS:HZ1	1.63	0.61
15:O:427:SER:O	15:O:435:ARG:HD3	2.01	0.61
16:P:158:MET:C	16:P:192:TYR:CE1	2.78	0.61
17:Q:206:ARG:HG3	17:Q:206:ARG:O	2.01	0.61
17:Q:283:ARG:C	17:Q:302:ARG:CB	2.74	0.61
1:A:920:PHE:C	1:A:922:CYS:N	2.49	0.61
2:B:742:TYR:CE1	2:B:803:MET:HG3	2.36	0.61
4:D:85:SER:HB3	7:G:71:MET:HG3	1.81	0.61
13:M:113:ILE:O	13:M:113:ILE:HD13	2.01	0.61
16:P:179:CYS:SG	16:P:255:LYS:NZ	2.70	0.61
16:P:200:PRO:CB	16:P:203:TRP:HD1	2.11	0.61
16:P:488:LEU:C	16:P:493:ILE:HG23	2.25	0.61
16:P:497:GLN:HG2	16:P:498:LEU:H	1.65	0.61
17:Q:4:VAL:HG21	17:Q:214:VAL:HG22	1.82	0.61
17:Q:302:ARG:NH2	17:Q:303:THR:HG21	2.16	0.61
17:Q:380:SER:HB2	17:Q:438:PHE:HZ	1.64	0.61
1:A:908:VAL:HG12	1:A:912:VAL:HG21	1.82	0.61
15:O:344:ILE:HG13	15:O:345:ASP:H	1.66	0.61
15:O:398:ALA:HB1	17:Q:134:PRO:CG	2.28	0.61
16:P:126:PRO:O	16:P:127:LYS:C	2.43	0.61
16:P:166:TYR:CD2	16:P:230:ILE:HD13	2.36	0.61
16:P:340:GLN:NE2	16:P:370:SER:CB	2.64	0.61
16:P:417:PHE:O	16:P:418:PRO:C	2.44	0.61
17:Q:280:SER:HG	17:Q:301:SER:HB3	1.65	0.61
1:A:985:ARG:O	1:A:989:GLY:N	2.34	0.61
7:G:28:ILE:HB	7:G:31:LYS:HA	1.83	0.61
15:O:275:GLU:CG	15:O:285:MET:HG3	2.31	0.61
15:O:291:PRO:C	15:O:292:LEU:HD23	2.25	0.61
15:O:596:ILE:HA	16:P:272:GLN:HE22	1.65	0.61
16:P:238:HIS:HE1	16:P:289:ARG:NH2	1.99	0.61
16:P:247:ILE:HG13	16:P:286:LEU:CB	2.28	0.61
16:P:257:VAL:HG11	16:P:262:LEU:HD12	1.64	0.61
17:Q:133:LYS:CB	17:Q:134:PRO:CD	2.76	0.61
1:A:1183:GLU:OE1	6:F:88:TYR:OH	2.17	0.60
1:A:1262:LEU:HD23	1:A:1497:ILE:HG22	1.81	0.60
3:C:88:ASN:O	12:L:60:ARG:NH1	2.33	0.60
7:G:40:ARG:HA	7:G:122:LEU:O	2.01	0.60
7:G:50:ALA:H	7:G:64:GLN:HE22	1.47	0.60
13:M:80:LEU:HB3	13:M:89:GLN:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:383:ILE:CG1	15:O:390:GLN:HG3	2.31	0.60
15:O:568:ILE:HG22	15:O:570:ASP:N	2.15	0.60
16:P:104:PHE:CB	16:P:211:TYR:CE1	2.64	0.60
16:P:200:PRO:CB	16:P:203:TRP:H	2.14	0.60
16:P:366:TYR:HE2	17:Q:218:ASP:OD2	1.83	0.60
1:A:549:MET:O	1:A:554:ARG:NH1	2.34	0.60
15:O:214:LEU:HD13	15:O:263:ILE:CD1	2.26	0.60
15:O:472:ARG:NH1	17:Q:200:THR:CG2	2.44	0.60
15:O:537:PHE:HE1	15:O:552:LEU:HD11	1.66	0.60
15:O:541:LEU:HD12	15:O:541:LEU:N	2.16	0.60
15:O:669:PHE:CD1	15:O:738:LYS:CE	2.71	0.60
16:P:369:TRP:CZ3	16:P:377:PHE:CD2	2.90	0.60
17:Q:21:TYR:CD2	17:Q:124:GLU:CG	2.84	0.60
17:Q:202:THR:HG22	17:Q:202:THR:O	2.00	0.60
17:Q:213:ILE:HA	17:Q:216:LEU:HB2	1.83	0.60
1:A:45:VAL:HG13	1:A:48:GLY:HA3	1.83	0.60
1:A:84:PRO:O	1:A:317:SER:OG	2.17	0.60
1:A:117:ARG:HH11	1:A:117:ARG:HG2	1.66	0.60
1:A:1478:ALA:HB2	9:I:21:ASN:OD1	2.01	0.60
2:B:117:VAL:CG2	17:Q:276:GLN:CG	2.72	0.60
2:B:827:PHE:CD2	2:B:869:THR:HG21	2.37	0.60
5:E:58:MET:HE2	5:E:82:PHE:CD2	2.36	0.60
7:G:62:MET:HA	7:G:66:LEU:HB2	1.81	0.60
15:O:214:LEU:CB	15:O:236:ILE:CB	2.77	0.60
16:P:167:LEU:HB3	16:P:239:PHE:CE2	2.37	0.60
16:P:488:LEU:O	16:P:491:PHE:O	2.19	0.60
17:Q:153:ASN:O	17:Q:154:LYS:HB3	1.99	0.60
17:Q:411:VAL:HG13	17:Q:412:ARG:N	2.16	0.60
19:S:28:DT:C4'	19:S:29:DT:O4'	2.50	0.60
19:S:39:DT:H6	19:S:39:DT:C5'	2.11	0.60
1:A:420:PHE:HZ	13:M:158:ALA:HB3	1.67	0.60
1:A:1261:VAL:O	1:A:1498:ILE:N	2.33	0.60
2:B:819:ASP:CG	2:B:820:PRO:HD3	2.26	0.60
7:G:44:ALA:HA	7:G:118:CYS:O	2.01	0.60
13:M:23:VAL:HG12	13:M:95:VAL:HG13	1.83	0.60
15:O:180:ASN:OD1	15:O:181:ARG:N	2.34	0.60
15:O:200:THR:HB	15:O:218:VAL:HG13	1.82	0.60
15:O:214:LEU:HB2	15:O:236:ILE:CB	2.23	0.60
15:O:214:LEU:CD1	15:O:242:ILE:HD13	2.31	0.60
15:O:217:ALA:O	15:O:229:ARG:NH2	2.34	0.60
15:O:398:ALA:HA	17:Q:128:TRP:CZ3	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:423:ILE:HG21	17:Q:141:TRP:CZ2	2.25	0.60
15:O:585:GLU:HG3	15:O:589:ILE:HG13	1.83	0.60
15:O:630:LEU:HD12	15:O:631:SER:N	2.16	0.60
16:P:360:LYS:HB2	16:P:360:LYS:NZ	2.16	0.60
16:P:431:ASP:O	16:P:434:HIS:CA	2.49	0.60
17:Q:352:TRP:CZ3	17:Q:357:PRO:CG	2.82	0.60
1:A:722:PRO:O	1:A:723:TYR:HB2	2.01	0.60
1:A:785:GLN:CA	1:A:789:SER:CB	2.80	0.60
2:B:268:GLU:HB2	13:M:132:PHE:HZ	1.67	0.60
2:B:513:LYS:HZ3	19:S:42:DG:H4'	1.65	0.60
8:H:104:PHE:HE1	8:H:114:VAL:HG13	1.64	0.60
16:P:263:PRO:HB3	16:P:266:PHE:CE2	2.33	0.60
16:P:399:SER:CB	16:P:402:MET:CG	2.80	0.60
16:P:488:LEU:C	16:P:488:LEU:HD23	2.25	0.60
17:Q:278:TYR:HB2	17:Q:308:PHE:HZ	1.67	0.60
17:Q:283:ARG:O	17:Q:302:ARG:NE	2.25	0.60
17:Q:372:HIS:ND1	17:Q:407:HIS:NE2	2.48	0.60
1:A:612:LYS:H	2:B:913:ILE:HD11	1.66	0.60
3:C:247:PHE:HB2	3:C:285:PHE:CE1	2.35	0.60
9:I:27:ASN:CB	9:I:39:LYS:HB2	2.31	0.60
15:O:319:ASP:HB2	15:O:363:ILE:HG12	1.84	0.60
15:O:657:SER:OG	15:O:746:ARG:HD3	2.01	0.60
15:O:768:TYR:O	15:O:772:ILE:HG22	2.02	0.60
1:A:344:ASN:HD21	1:A:348:LYS:N	1.98	0.60
1:A:406:LEU:O	1:A:408:LYS:N	2.32	0.60
1:A:781:LEU:C	1:A:786:TYR:OH	2.45	0.60
1:A:1628:ASP:HB2	1:A:1630:GLU:HG2	1.83	0.60
2:B:726:MET:HG3	2:B:742:TYR:HB3	1.84	0.60
2:B:825:PHE:HA	2:B:861:TYR:HA	1.84	0.60
2:B:832:TRP:CZ3	2:B:834:LYS:HA	2.36	0.60
13:M:25:SER:HB3	13:M:97:VAL:HA	1.84	0.60
16:P:152:LEU:HB3	20:T:44:DC:OP1	2.01	0.60
16:P:182:ILE:HD11	16:P:350:ARG:N	2.17	0.60
16:P:214:ILE:HG23	16:P:214:ILE:O	2.00	0.60
1:A:80:GLU:O	1:A:397:ARG:NH2	2.34	0.60
2:B:1121:GLY:HA3	7:G:239:THR:OG1	2.01	0.60
6:F:138:LEU:O	6:F:141:GLY:N	2.34	0.60
7:G:69:LEU:HG	7:G:81:VAL:HG21	1.84	0.60
15:O:7:UNK:O	17:Q:424:PHE:HB2	2.02	0.60
15:O:10:UNK:C	17:Q:141:TRP:HB3	2.27	0.60
15:O:421:ILE:HG22	15:O:422:ILE:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:248:SER:O	16:P:249:CYS:CB	2.49	0.60
16:P:258:MET:CA	16:P:262:LEU:HB2	2.30	0.60
17:Q:21:TYR:HE2	17:Q:124:GLU:CG	2.04	0.60
17:Q:283:ARG:C	17:Q:302:ARG:NE	2.60	0.60
17:Q:411:VAL:CG1	17:Q:412:ARG:N	2.65	0.60
1:A:594:THR:HG22	1:A:594:THR:O	2.02	0.60
1:A:718:THR:N	1:A:725:LEU:O	2.35	0.60
2:B:1139:LYS:C	2:B:1141:LEU:H	2.09	0.60
3:C:95:GLU:HG3	12:L:67:PHE:HE2	1.66	0.60
13:M:368:GLY:HA3	13:M:402:LYS:HD3	1.84	0.60
14:N:172:ALA:HB3	14:N:175:TYR:CD2	2.33	0.60
15:O:202:ILE:H	15:O:202:ILE:CD1	2.11	0.60
15:O:369:PHE:CE2	15:O:431:ASP:C	2.80	0.60
15:O:623:LEU:HD13	15:O:668:SER:O	2.01	0.60
16:P:150:GLU:CD	16:P:150:GLU:C	2.70	0.60
16:P:378:LEU:HD22	17:Q:234:LYS:HB3	1.84	0.60
16:P:381:MET:CE	16:P:385:PHE:CD2	2.84	0.60
17:Q:261:LEU:HD21	17:Q:264:SER:H	1.67	0.60
1:A:65:CYS:CB	1:A:75:HIS:HE2	2.12	0.60
9:I:37:TYR:O	9:I:38:PRO:C	2.44	0.60
10:J:10:CYS:SG	10:J:11:GLY:N	2.74	0.60
15:O:248:PRO:CB	15:O:307:PHE:CE2	2.84	0.60
15:O:282:CYS:O	15:O:284:VAL:HG23	2.01	0.60
15:O:316:ALA:HB1	15:O:340:LYS:HD3	1.84	0.60
15:O:746:ARG:NH2	16:P:173:SER:HB2	2.17	0.60
16:P:278:GLU:HG2	16:P:309:TYR:CE2	2.37	0.60
16:P:335:THR:O	16:P:338:LEU:HB2	2.02	0.60
16:P:436:LEU:H	16:P:436:LEU:HD12	1.67	0.60
17:Q:245:VAL:CG1	17:Q:250:LEU:HD21	2.30	0.60
2:B:349:VAL:O	2:B:353:VAL:HG23	2.01	0.59
13:M:347:THR:HB	13:M:348:PRO:HD3	1.82	0.59
15:O:309:PRO:O	15:O:310:TRP:CB	2.49	0.59
15:O:318:ILE:HD12	15:O:324:TRP:HA	1.83	0.59
16:P:497:GLN:O	16:P:498:LEU:C	2.45	0.59
17:Q:127:PHE:O	17:Q:131:TYR:CD2	2.52	0.59
3:C:147:PRO:HD2	3:C:155:GLU:OE2	2.02	0.59
8:H:104:PHE:CE2	8:H:136:LYS:HB3	2.36	0.59
15:O:424:VAL:HG23	15:O:437:SER:HG	1.67	0.59
17:Q:216:LEU:HD23	17:Q:239:LEU:HA	1.84	0.59
19:S:39:DT:C6	19:S:39:DT:C5'	2.86	0.59
1:A:417:ARG:NH2	1:A:420:PHE:HD2	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:37:TYR:C	9:I:39:LYS:N	2.60	0.59
9:I:43:SER:HB2	9:I:45:LEU:CD2	2.33	0.59
13:M:42:LYS:HG3	13:M:51:PHE:HE1	1.67	0.59
13:M:122:SER:O	13:M:125:ARG:HB2	2.02	0.59
14:N:70:LEU:HG	14:N:72:VAL:HG13	1.83	0.59
15:O:195:ASN:O	15:O:196:TYR:HB3	2.01	0.59
15:O:384:ASP:CB	15:O:389:TRP:HB3	2.13	0.59
15:O:400:SER:OG	17:Q:139:GLU:OE1	2.18	0.59
15:O:577:LEU:HD22	16:P:502:ILE:HG22	1.83	0.59
15:O:775:TRP:HZ3	16:P:134:LYS:HE2	1.66	0.59
16:P:113:LYS:C	16:P:116:ILE:HG13	2.27	0.59
16:P:258:MET:HG2	16:P:262:LEU:HD21	1.84	0.59
16:P:441:ASP:O	16:P:445:ARG:HG2	2.02	0.59
1:A:722:PRO:O	1:A:723:TYR:HB3	2.01	0.59
5:E:106:GLN:O	5:E:130:ALA:HB1	2.02	0.59
14:N:95:ILE:CD1	14:N:136:VAL:HG23	2.23	0.59
15:O:18:UNK:CB	17:Q:252:GLY:O	2.51	0.59
15:O:216:ILE:CA	15:O:234:THR:OG1	2.50	0.59
15:O:389:TRP:C	15:O:390:GLN:CD	2.70	0.59
15:O:428:GLU:HG3	15:O:433:VAL:CG2	2.32	0.59
15:O:454:GLN:H	15:O:465:VAL:HG23	1.67	0.59
16:P:101:LYS:HD3	16:P:152:LEU:CD1	2.21	0.59
16:P:201:LYS:HG3	16:P:202:SER:N	2.17	0.59
16:P:246:GLU:O	16:P:247:ILE:HB	2.01	0.59
17:Q:310:ILE:HG23	17:Q:363:GLU:OE1	2.03	0.59
17:Q:380:SER:CB	17:Q:438:PHE:CE1	2.85	0.59
17:Q:393:ILE:O	17:Q:393:ILE:HG12	2.01	0.59
1:A:56:ALA:HB2	1:A:67:LEU:O	2.02	0.59
1:A:65:CYS:HB3	1:A:75:HIS:NE2	2.16	0.59
1:A:88:PRO:HG2	1:A:438:ILE:HG13	1.85	0.59
1:A:499:PRO:O	1:A:503:VAL:HG22	2.01	0.59
1:A:785:GLN:C	1:A:789:SER:CB	2.75	0.59
1:A:1151:ASN:HB3	1:A:1154:LEU:HB3	1.83	0.59
1:A:1243:TRP:HB2	1:A:1246:VAL:HG23	1.84	0.59
2:B:96:SER:N	2:B:144:SER:O	2.29	0.59
7:G:143:SER:HA	7:G:159:LYS:HB2	1.83	0.59
9:I:17:LEU:HD13	9:I:28:VAL:CG1	2.29	0.59
14:N:96:GLU:OE2	14:N:132:GLN:NE2	2.28	0.59
15:O:348:HIS:CG	15:O:349:GLY:N	2.70	0.59
15:O:623:LEU:HD12	15:O:668:SER:O	1.98	0.59
15:O:659:LEU:HD13	15:O:659:LEU:N	2.06	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:724:LEU:C	15:O:725:VAL:HG12	2.28	0.59
16:P:176:VAL:HG11	16:P:179:CYS:HB3	1.82	0.59
16:P:224:GLY:O	16:P:226:LEU:N	2.35	0.59
19:S:26:DT:H2"	19:S:27:DT:C6	2.37	0.59
1:A:1638:SER:OG	2:B:1076:ARG:NH1	2.36	0.59
3:C:80:ALA:HA	3:C:208:CYS:HA	1.85	0.59
3:C:197:ARG:HG2	10:J:61:LEU:HD22	1.85	0.59
14:N:157:ARG:NH1	14:N:159:ASP:OD1	2.35	0.59
14:N:163:VAL:O	14:N:166:LEU:HD23	2.01	0.59
15:O:195:ASN:N	15:O:197:ARG:HH12	2.01	0.59
15:O:381:ILE:HG22	15:O:382:GLU:N	2.17	0.59
15:O:468:VAL:HG22	15:O:477:TYR:HB3	1.83	0.59
15:O:775:TRP:CE2	16:P:113:LYS:HB2	2.37	0.59
16:P:174:LEU:CB	16:P:175:PRO:HD3	2.32	0.59
16:P:362:THR:CB	16:P:365:ASP:OD2	2.50	0.59
17:Q:174:GLU:O	17:Q:177:LEU:N	2.36	0.59
17:Q:266:SER:HB2	17:Q:268:LEU:HD12	1.84	0.59
3:C:242:GLU:O	3:C:246:ARG:CB	2.48	0.59
15:O:356:GLU:CD	15:O:397:LYS:HD2	2.28	0.59
15:O:414:ILE:HB	15:O:425:GLY:N	2.17	0.59
15:O:573:GLU:CG	16:P:495:LYS:NZ	2.65	0.59
15:O:583:GLU:OE1	15:O:583:GLU:N	2.36	0.59
15:O:708:VAL:O	15:O:708:VAL:HG12	2.01	0.59
16:P:219:ILE:CG1	17:Q:206:ARG:HG3	2.21	0.59
16:P:235:GLY:CA	16:P:289:ARG:HB3	2.08	0.59
1:A:668:GLY:CA	1:A:787:GLY:C	2.41	0.59
2:B:733:LEU:HD22	2:B:741:LEU:HD13	1.85	0.59
7:G:138:PHE:N	7:G:146:GLY:O	2.36	0.59
15:O:277:VAL:HG22	15:O:283:ASP:O	2.03	0.59
15:O:391:THR:HG21	15:O:393:VAL:HG13	1.84	0.59
15:O:436:ILE:HD12	15:O:436:ILE:O	2.02	0.59
16:P:386:LEU:O	16:P:388:THR:CG2	2.49	0.59
1:A:1447:GLN:HE21	1:A:1459:LYS:HA	1.67	0.59
13:M:76:TYR:OH	14:N:57:LYS:HE2	2.02	0.59
15:O:187:ILE:HG12	15:O:258:SER:OG	2.01	0.59
15:O:408:ILE:HG22	15:O:413:GLY:O	2.01	0.59
15:O:581:ALA:HB3	15:O:585:GLU:HG2	1.83	0.59
15:O:683:PHE:CE1	15:O:692:THR:OG1	2.53	0.59
16:P:284:LEU:HD22	16:P:302:ALA:HB2	1.83	0.59
2:B:155:VAL:HG21	17:Q:354:LEU:HD21	1.75	0.59
2:B:334:PHE:HB3	2:B:338:PHE:CD1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:495:ARG:HH11	2:B:723:LYS:HE2	1.68	0.59
5:E:13:TRP:HB2	5:E:42:PHE:CD2	2.38	0.59
15:O:203:ILE:HG12	15:O:217:ALA:O	2.03	0.59
15:O:270:GLN:NE2	15:O:339:ARG:HH22	2.01	0.59
15:O:467:PHE:CD1	15:O:478:MET:HG2	2.37	0.59
15:O:705:HIS:O	15:O:706:GLU:CB	2.46	0.59
15:O:705:HIS:CE1	15:O:707:ASP:OD2	2.55	0.59
17:Q:278:TYR:HB2	17:Q:308:PHE:CZ	2.38	0.59
17:Q:380:SER:HB3	17:Q:438:PHE:CE1	2.37	0.59
1:A:37:VAL:HG12	1:A:49:LEU:HD13	1.85	0.58
6:F:72:LYS:HD2	6:F:141:GLY:C	2.28	0.58
15:O:181:ARG:HD2	15:O:206:ALA:HB1	1.83	0.58
15:O:301:GLN:O	15:O:320:ILE:HG23	2.03	0.58
15:O:329:ILE:HG23	15:O:340:LYS:HB3	1.84	0.58
15:O:389:TRP:C	15:O:390:GLN:OE1	2.46	0.58
15:O:392:GLU:HG2	15:O:392:GLU:O	2.03	0.58
15:O:408:ILE:HD11	15:O:464:LEU:HD22	1.84	0.58
15:O:573:GLU:CG	15:O:574:TRP:H	2.10	0.58
16:P:151:GLU:OE1	16:P:153:LYS:N	2.29	0.58
16:P:257:VAL:O	16:P:262:LEU:CB	2.51	0.58
16:P:352:ILE:C	16:P:355:VAL:HG23	2.27	0.58
16:P:417:PHE:CE1	17:Q:258:LEU:HD11	2.38	0.58
17:Q:248:LYS:HA	17:Q:248:LYS:HE2	1.84	0.58
1:A:264:ASN:HA	1:A:267:LYS:HB2	1.84	0.58
1:A:781:LEU:O	1:A:786:TYR:OH	2.20	0.58
2:B:77:LYS:HG3	2:B:93:ASN:O	2.03	0.58
7:G:90:LEU:HD13	7:G:119:HIS:HE1	1.66	0.58
13:M:10:ILE:HD12	14:N:72:VAL:HG23	1.85	0.58
13:M:40:LEU:HB3	14:N:32:CYS:SG	2.43	0.58
15:O:233:VAL:HG12	15:O:234:THR:N	2.18	0.58
15:O:585:GLU:HA	15:O:588:SER:HB2	1.85	0.58
15:O:610:LEU:CD1	15:O:614:GLU:HG3	2.32	0.58
15:O:611:ILE:HG12	15:O:731:LEU:CD2	2.34	0.58
16:P:273:VAL:O	16:P:276:PHE:HB3	2.03	0.58
1:A:1136:VAL:HG12	1:A:1174:TYR:CD1	2.39	0.58
7:G:97:LYS:HA	7:G:97:LYS:CE	2.33	0.58
13:M:54:HIS:CE1	14:N:23:PHE:CD2	2.91	0.58
15:O:270:GLN:CD	15:O:339:ARG:HH22	2.11	0.58
15:O:275:GLU:CG	15:O:285:MET:HG2	2.32	0.58
15:O:420:GLU:O	15:O:421:ILE:CG1	2.51	0.58
15:O:583:GLU:OE1	15:O:584:ARG:CG	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:703:PHE:HZ	16:P:258:MET:SD	2.26	0.58
15:O:760:ILE:O	15:O:760:ILE:HD12	2.03	0.58
16:P:165:LEU:HD23	16:P:165:LEU:O	2.02	0.58
17:Q:397:ARG:NH1	17:Q:398:ASP:O	2.36	0.58
19:S:1:DC:N4	20:T:53:DT:H3	2.02	0.58
1:A:582:LYS:HD2	1:A:584:ARG:HE	1.67	0.58
1:A:1314:GLN:NE2	1:A:1460:TYR:OH	2.36	0.58
5:E:7:ARG:O	5:E:11:ARG:HB2	2.03	0.58
5:E:80:VAL:HA	5:E:109:ILE:HB	1.84	0.58
9:I:27:ASN:HB3	9:I:39:LYS:CB	2.33	0.58
13:M:45:LYS:HZ3	13:M:50:GLU:CG	2.12	0.58
15:O:307:PHE:CB	15:O:315:PHE:CD1	2.77	0.58
15:O:318:ILE:O	15:O:324:TRP:HB2	2.03	0.58
15:O:589:ILE:CG2	16:P:316:TRP:CE3	2.86	0.58
15:O:704:LEU:HD22	16:P:183:LYS:NZ	2.19	0.58
16:P:281:ILE:O	16:P:281:ILE:HG12	2.02	0.58
17:Q:390:ASN:O	17:Q:392:LEU:N	2.36	0.58
2:B:755:ASN:ND2	2:B:980:ASP:OD2	2.37	0.58
3:C:325:ALA:HB2	11:K:124:LEU:HD23	1.83	0.58
15:O:299:ASP:CB	17:Q:159:TYR:HB2	2.25	0.58
15:O:378:SER:HB3	15:O:397:LYS:CD	2.32	0.58
16:P:102:LEU:O	16:P:105:LEU:HB3	2.03	0.58
16:P:110:PHE:CZ	16:P:199:LEU:HB2	2.38	0.58
16:P:258:MET:N	16:P:262:LEU:CD1	2.46	0.58
16:P:287:TRP:CZ3	16:P:290:THR:HG23	2.31	0.58
16:P:319:SER:O	16:P:320:PHE:HB2	2.04	0.58
16:P:360:LYS:O	16:P:360:LYS:HG2	2.04	0.58
1:A:117:ARG:NH1	1:A:121:LYS:HE3	2.18	0.58
1:A:721:LYS:HG3	8:H:94:ASP:O	2.04	0.58
2:B:114:SER:C	2:B:116:ALA:H	2.10	0.58
3:C:152:ASP:C	3:C:154:LYS:N	2.62	0.58
15:O:195:ASN:H	15:O:197:ARG:HH12	1.50	0.58
15:O:353:ASP:C	17:Q:28:SER:HB3	2.29	0.58
15:O:599:LYS:HZ1	16:P:275:GLU:CD	2.10	0.58
15:O:658:LYS:HG3	15:O:660:LYS:CE	2.26	0.58
19:S:13:DA:H2''	19:S:14:DA:C8	2.39	0.58
20:T:14:DT:H4'	20:T:15:DT:O5'	2.03	0.58
1:A:106:HIS:HB3	1:A:327:VAL:HG22	1.85	0.58
1:A:403:LEU:CA	1:A:406:LEU:HG	2.33	0.58
1:A:432:ASN:HD21	1:A:444:GLN:H	1.50	0.58
1:A:474:LYS:NZ	2:B:1172:GLU:OE1	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1456:PHE:HB3	1:A:1474:LEU:HD21	1.84	0.58
14:N:95:ILE:HD12	14:N:136:VAL:CG2	2.11	0.58
15:O:185:GLN:HB2	15:O:187:ILE:HD11	1.86	0.58
15:O:262:GLY:C	15:O:263:ILE:HG13	2.27	0.58
15:O:263:ILE:HG22	15:O:264:ILE:N	2.18	0.58
15:O:512:LEU:HD23	15:O:512:LEU:O	2.03	0.58
15:O:707:ASP:OD2	16:P:439:ILE:CG1	2.52	0.58
16:P:102:LEU:O	16:P:106:LYS:HG3	2.04	0.58
16:P:115:GLN:OE1	16:P:161:THR:HG22	2.04	0.58
16:P:284:LEU:HD11	16:P:305:ARG:NE	2.17	0.58
17:Q:383:PHE:CZ	17:Q:398:ASP:CG	2.71	0.58
1:A:588:LEU:HD22	2:B:1087:LEU:HD21	1.86	0.58
1:A:982:VAL:HG13	1:A:994:GLU:OE1	2.04	0.58
1:A:1447:GLN:NE2	1:A:1459:LYS:HA	2.19	0.58
1:A:1512:PRO:HB3	1:A:1517:ARG:HA	1.85	0.58
1:A:1640:ARG:HG2	1:A:1645:LYS:HB2	1.86	0.58
2:B:118:GLU:CD	17:Q:281:LYS:HZ1	2.12	0.58
4:D:95:ASP:CG	7:G:150:HIS:HA	2.29	0.58
8:H:93:TYR:CD1	8:H:145:ARG:HB2	2.39	0.58
14:N:23:PHE:HB3	14:N:25:ILE:HD11	1.86	0.58
15:O:347:LEU:HD22	17:Q:152:ILE:N	2.19	0.58
15:O:424:VAL:HG23	15:O:424:VAL:O	2.03	0.58
17:Q:174:GLU:O	17:Q:175:ILE:C	2.46	0.58
1:A:105:CYS:O	1:A:106:HIS:HB2	2.04	0.58
1:A:883:LEU:HD23	1:A:884:ARG:HH12	1.69	0.58
2:B:86:SER:O	2:B:90:TYR:HB3	2.04	0.58
3:C:150:SER:O	3:C:151:THR:C	2.46	0.58
15:O:329:ILE:CG2	15:O:340:LYS:HB3	2.34	0.58
15:O:436:ILE:HD12	15:O:436:ILE:C	2.29	0.58
15:O:506:THR:CG2	15:O:540:LYS:HG2	2.34	0.58
15:O:511:ILE:HD12	15:O:537:PHE:HA	1.85	0.58
15:O:554:ASN:O	15:O:555:THR:HG23	2.04	0.58
15:O:672:ILE:CD1	15:O:734:LYS:HE2	2.34	0.58
16:P:496:GLU:HA	16:P:499:LYS:HB2	1.85	0.58
17:Q:380:SER:OG	17:Q:384:VAL:CG1	2.52	0.58
17:Q:383:PHE:C	17:Q:388:LYS:HA	2.29	0.58
1:A:611:GLU:OE2	1:A:613:THR:OG1	2.18	0.58
1:A:748:ASN:OD1	1:A:773:ASP:N	2.28	0.58
1:A:1640:ARG:HD3	1:A:1646:LEU:O	2.04	0.58
2:B:152:LEU:HD23	2:B:446:MET:SD	2.44	0.58
2:B:547:HIS:CE1	2:B:548:LYS:HD3	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:679:GLN:N	2:B:679:GLN:OE1	2.33	0.58
2:B:782:ASP:O	2:B:950:ASN:ND2	2.35	0.58
7:G:140:GLN:NE2	7:G:225:ILE:HG13	2.19	0.58
14:N:58:PHE:CD2	14:N:64:ILE:HG13	2.38	0.58
15:O:324:TRP:HD1	15:O:348:HIS:CD2	2.17	0.58
15:O:329:ILE:HB	15:O:330:PRO:HD2	1.85	0.58
15:O:610:LEU:HD11	15:O:614:GLU:HG3	1.86	0.58
15:O:725:VAL:CG1	15:O:726:SER:H	2.10	0.58
16:P:247:ILE:CD1	16:P:286:LEU:CB	2.82	0.58
1:A:451:VAL:O	1:A:451:VAL:HG12	2.03	0.57
1:A:529:LYS:HG2	1:A:530:TRP:H	1.69	0.57
1:A:530:TRP:O	1:A:580:HIS:HD2	1.87	0.57
2:B:12:ARG:HA	2:B:15:ASP:OD1	2.04	0.57
2:B:892:SER:O	12:L:54:ARG:NH1	2.33	0.57
2:B:1071:VAL:HA	2:B:1075:GLU:OE1	2.04	0.57
15:O:273:ARG:NH1	15:O:274:ILE:O	2.38	0.57
15:O:366:PHE:HZ	15:O:426:ALA:O	1.87	0.57
15:O:491:SER:OG	15:O:492:LEU:N	2.37	0.57
16:P:104:PHE:CD1	16:P:211:TYR:C	2.82	0.57
17:Q:396:ASP:C	17:Q:397:ARG:CG	2.76	0.57
9:I:42:PHE:CE1	9:I:44:ASN:HB2	2.38	0.57
15:O:194:ARG:CA	15:O:197:ARG:CZ	2.64	0.57
15:O:309:PRO:HD3	15:O:365:TRP:CD2	2.37	0.57
17:Q:247:ILE:O	17:Q:250:LEU:CA	2.53	0.57
19:S:10:DG:N2	20:T:45:DC:O2	2.24	0.57
19:S:16:DG:O6	20:T:38:DA:N6	2.37	0.57
1:A:464:GLU:CA	1:A:468:ARG:HB2	2.34	0.57
1:A:753:ASN:N	1:A:767:ASN:OD1	2.31	0.57
2:B:290:ASP:HB3	2:B:577:PHE:HE1	1.68	0.57
3:C:333:ILE:HG13	11:K:114:VAL:HG13	1.85	0.57
10:J:44:TYR:HA	10:J:47:ARG:HB2	1.86	0.57
13:M:170:LYS:HA	13:M:170:LYS:HE3	1.86	0.57
14:N:111:VAL:O	14:N:120:LYS:N	2.36	0.57
15:O:6:UNK:C	17:Q:425:ALA:HA	2.11	0.57
15:O:222:GLN:HG2	15:O:225:LEU:HB2	1.86	0.57
15:O:353:ASP:OD1	15:O:354:PRO:CD	2.47	0.57
15:O:500:ILE:HG23	15:O:501:PRO:CD	2.32	0.57
15:O:590:GLY:C	16:P:320:PHE:CZ	2.82	0.57
16:P:283:ASN:OD1	16:P:283:ASN:N	2.32	0.57
16:P:399:SER:HB2	16:P:402:MET:HG2	1.85	0.57
1:A:62:CYS:O	1:A:66:GLY:N	2.28	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:960:ILE:HA	2:B:963:PHE:HD2	1.69	0.57
15:O:362:ARG:NH1	15:O:364:GLU:HB2	2.20	0.57
15:O:369:PHE:O	15:O:370:GLN:HB2	2.04	0.57
16:P:200:PRO:CA	16:P:203:TRP:CD1	2.85	0.57
19:S:17:DT:H2"	19:S:18:DA:H8	1.70	0.57
11:K:95:HIS:HB3	11:K:98:GLU:HG3	1.86	0.57
15:O:353:ASP:OD1	15:O:353:ASP:N	2.36	0.57
16:P:208:PRO:CB	16:P:213:SER:HA	2.32	0.57
17:Q:266:SER:OG	17:Q:269:ASP:OD1	2.13	0.57
17:Q:388:LYS:CE	17:Q:393:ILE:HB	2.33	0.57
1:A:62:CYS:HB2	1:A:72:CYS:SG	2.44	0.57
1:A:1612:LYS:HB3	1:A:1621:PHE:CG	2.40	0.57
2:B:186:GLU:O	2:B:188:ASP:N	2.38	0.57
7:G:96:SER:HB3	7:G:99:ASP:N	2.20	0.57
10:J:9:SER:HB2	10:J:45:CYS:HB2	1.87	0.57
10:J:32:GLU:CD	10:J:32:GLU:H	2.13	0.57
15:O:596:ILE:HG21	16:P:317:MET:HE2	1.87	0.57
16:P:135:ILE:O	16:P:139:LYS:HG3	2.05	0.57
16:P:154:LEU:O	16:P:156:LEU:HD13	1.94	0.57
1:A:418:VAL:O	1:A:421:SER:OG	2.16	0.57
8:H:112:ILE:CG2	8:H:131:ASN:HD22	2.18	0.57
13:M:45:LYS:NZ	13:M:50:GLU:N	2.51	0.57
13:M:45:LYS:O	13:M:47:GLU:N	2.37	0.57
15:O:360:TRP:C	15:O:361:LYS:HG3	2.30	0.57
15:O:422:ILE:HG12	15:O:440:HIS:O	2.04	0.57
16:P:127:LYS:HB3	16:P:131:HIS:CE1	2.39	0.57
16:P:154:LEU:CD1	16:P:154:LEU:H	2.02	0.57
16:P:263:PRO:HG3	16:P:266:PHE:CD2	2.35	0.57
16:P:274:ILE:C	16:P:278:GLU:HB3	2.29	0.57
1:A:52:LEU:C	1:A:63:SER:H	2.12	0.57
1:A:549:MET:HG2	1:A:553:GLN:OE1	2.04	0.57
2:B:108:MET:HE1	2:B:120:LYS:HG2	1.87	0.57
2:B:479:GLN:N	2:B:479:GLN:OE1	2.36	0.57
2:B:829:ASN:C	2:B:831:GLU:H	2.13	0.57
7:G:80:VAL:CG2	7:G:243:VAL:HG11	2.34	0.57
15:O:529:GLU:HB2	15:O:531:PHE:HE2	1.68	0.57
15:O:568:ILE:CG2	15:O:570:ASP:CG	2.78	0.57
15:O:611:ILE:HD13	15:O:731:LEU:HB3	1.87	0.57
15:O:736:ILE:CG2	16:P:267:TYR:CE1	2.78	0.57
15:O:747:LEU:HD12	15:O:748:GLU:H	1.70	0.57
15:O:769:GLN:O	15:O:772:ILE:CG2	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:155:GLN:HE22	16:P:215:LEU:CD2	2.15	0.57
16:P:239:PHE:C	16:P:239:PHE:CD1	2.83	0.57
16:P:367:PHE:CE1	17:Q:1:MET:SD	2.97	0.57
17:Q:21:TYR:HE2	17:Q:124:GLU:OE2	1.86	0.57
17:Q:302:ARG:CZ	17:Q:303:THR:CG2	2.82	0.57
19:S:27:DT:H2''	19:S:28:DT:H5'	1.86	0.57
1:A:416:ARG:C	1:A:418:VAL:H	2.12	0.57
1:A:437:PHE:HE2	2:B:1184:TYR:CZ	2.22	0.57
1:A:801:TYR:HB3	1:A:805:VAL:HG21	1.86	0.57
2:B:572:PRO:HB2	2:B:575:HIS:CD2	2.38	0.57
2:B:843:ASP:O	12:L:42:ARG:NH2	2.37	0.57
15:O:200:THR:CB	15:O:218:VAL:HG13	2.34	0.57
15:O:221:ARG:HD3	15:O:227:LEU:CD2	2.35	0.57
15:O:368:HIS:ND1	15:O:368:HIS:O	2.38	0.57
15:O:382:GLU:O	15:O:383:ILE:CG1	2.52	0.57
15:O:390:GLN:CD	17:Q:151:PRO:CG	2.78	0.57
15:O:428:GLU:OE1	15:O:428:GLU:O	2.23	0.57
15:O:669:PHE:CZ	15:O:738:LYS:HG3	2.40	0.57
16:P:238:HIS:NE2	16:P:289:ARG:CZ	2.66	0.57
1:A:712:ILE:HB	11:K:106:GLN:NE2	2.20	0.57
1:A:755:ILE:HD13	1:A:780:ILE:HD11	1.87	0.57
9:I:27:ASN:N	9:I:39:LYS:CA	2.62	0.57
12:L:31:CYS:HB2	12:L:48:CYS:SG	2.45	0.57
15:O:474:LYS:HD2	15:O:499:GLU:O	2.05	0.57
15:O:698:LYS:O	16:P:125:PHE:HZ	1.87	0.57
15:O:715:TYR:CE1	15:O:734:LYS:HG3	2.33	0.57
16:P:97:GLY:O	16:P:210:TYR:OH	2.22	0.57
16:P:367:PHE:CZ	17:Q:1:MET:CE	2.88	0.57
1:A:1578:SER:HB3	1:A:1581:HIS:CD2	2.40	0.56
2:B:122:TYR:HE2	2:B:175:MET:HE1	1.68	0.56
7:G:47:VAL:HG21	7:G:61:VAL:HG13	1.87	0.56
9:I:42:PHE:CE1	9:I:44:ASN:CA	2.85	0.56
15:O:536:ASP:HB2	15:O:549:TYR:CE1	2.39	0.56
15:O:656:HIS:CD2	15:O:746:ARG:HB3	2.39	0.56
16:P:370:SER:OG	16:P:373:GLU:OE1	2.22	0.56
16:P:415:LYS:O	16:P:417:PHE:N	2.32	0.56
17:Q:211:ARG:HG3	17:Q:212:HIS:H	1.69	0.56
17:Q:302:ARG:HG3	17:Q:303:THR:CG2	2.35	0.56
1:A:68:ASP:OD2	1:A:70:LYS:NZ	2.38	0.56
9:I:27:ASN:CB	9:I:36:ILE:C	2.65	0.56
13:M:174:THR:O	13:M:175:ARG:CG	2.50	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:319:ASP:HA	15:O:324:TRP:HA	1.87	0.56
15:O:533:LEU:HD12	15:O:533:LEU:O	2.05	0.56
15:O:706:GLU:CB	16:P:438:PHE:HB3	2.35	0.56
15:O:714:PHE:CZ	15:O:741:ILE:HD11	2.40	0.56
16:P:137:TRP:HE1	16:P:141:LEU:HD21	1.70	0.56
16:P:343:THR:C	16:P:345:SER:N	2.57	0.56
17:Q:134:PRO:O	17:Q:135:GLU:C	2.45	0.56
19:S:40:DT:H1'	19:S:41:DT:H2'	1.88	0.56
1:A:879:LEU:HA	1:A:882:ILE:HD12	1.87	0.56
1:A:967:PRO:HG3	2:B:669:GLN:HE21	1.70	0.56
1:A:1090:ASP:HB3	1:A:1132:TYR:CD1	2.40	0.56
2:B:251:HIS:HE1	2:B:261:ARG:CD	2.17	0.56
2:B:269:TYR:HD1	13:M:131:ALA:HB2	1.68	0.56
2:B:290:ASP:HB3	2:B:577:PHE:CE1	2.41	0.56
3:C:257:GLY:O	3:C:266:TYR:N	2.37	0.56
5:E:48:ASP:OD1	5:E:52:ARG:N	2.38	0.56
8:H:40:LEU:HD13	8:H:123:MET:HB2	1.87	0.56
8:H:105:GLU:OE1	8:H:115:TYR:OH	2.12	0.56
9:I:26:SER:O	9:I:38:PRO:CD	2.53	0.56
13:M:59:ARG:O	13:M:103:LYS:HG2	2.05	0.56
14:N:78:THR:HB	14:N:89:ILE:HB	1.87	0.56
15:O:415:LEU:CD1	15:O:453:VAL:HG11	2.20	0.56
15:O:436:ILE:CG2	17:Q:141:TRP:CD2	2.71	0.56
15:O:506:THR:HG22	15:O:540:LYS:C	2.30	0.56
15:O:585:GLU:CD	15:O:588:SER:HB2	2.30	0.56
15:O:715:TYR:OH	15:O:734:LYS:HE3	1.99	0.56
15:O:775:TRP:HD1	16:P:109:GLN:C	2.13	0.56
16:P:118:TRP:CZ2	16:P:189:LYS:CB	2.87	0.56
16:P:151:GLU:CD	16:P:153:LYS:H	2.11	0.56
16:P:156:LEU:CD1	16:P:156:LEU:N	2.68	0.56
16:P:188:ALA:HB1	16:P:193:PHE:CE2	2.40	0.56
16:P:235:GLY:N	16:P:289:ARG:CA	2.68	0.56
16:P:320:PHE:CD2	16:P:320:PHE:O	2.58	0.56
16:P:408:ILE:HG22	16:P:412:LYS:HE3	1.87	0.56
17:Q:208:TYR:CA	17:Q:211:ARG:CG	2.79	0.56
20:T:18:DG:H2'	20:T:19:DC:C6	2.39	0.56
1:A:397:ARG:HE	13:M:170:LYS:HB2	1.69	0.56
1:A:1501:ILE:HB	1:A:1504:ILE:HB	1.88	0.56
2:B:1104:CYS:CB	2:B:1107:CYS:HG	2.13	0.56
7:G:13:THR:O	7:G:17:ILE:HG12	2.05	0.56
15:O:275:GLU:HG3	15:O:285:MET:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:363:ILE:CG2	15:O:374:VAL:HG13	2.32	0.56
15:O:428:GLU:HA	15:O:435:ARG:HG2	1.87	0.56
15:O:641:TRP:HB2	15:O:654:LEU:HD23	1.87	0.56
16:P:150:GLU:O	16:P:150:GLU:CG	2.53	0.56
16:P:313:THR:O	16:P:317:MET:HB2	2.05	0.56
16:P:386:LEU:HB3	16:P:387:PRO:HD3	1.86	0.56
17:Q:380:SER:C	17:Q:384:VAL:HG11	2.23	0.56
1:A:49:LEU:HD21	1:A:386:LEU:HD22	1.87	0.56
1:A:1647:ASN:HB3	2:B:1085:SER:HB3	1.88	0.56
2:B:74:PHE:C	2:B:76:GLY:H	2.13	0.56
2:B:76:GLY:O	2:B:77:LYS:C	2.49	0.56
2:B:742:TYR:HE1	2:B:803:MET:HG3	1.71	0.56
15:O:230:HIS:HB3	15:O:280:ARG:HH22	1.69	0.56
15:O:254:ILE:O	15:O:256:ARG:N	2.39	0.56
15:O:389:TRP:O	15:O:390:GLN:CG	2.53	0.56
15:O:422:ILE:O	15:O:439:LYS:CA	2.52	0.56
16:P:104:PHE:CE2	16:P:155:GLN:CD	2.84	0.56
16:P:123:MET:CB	16:P:125:PHE:HE2	1.97	0.56
16:P:155:GLN:HB3	20:T:45:DC:OP1	2.05	0.56
16:P:209:ASN:OD1	16:P:210:TYR:N	2.39	0.56
16:P:247:ILE:CG1	16:P:286:LEU:CA	2.81	0.56
1:A:618:TYR:CE1	1:A:628:PHE:HE2	2.23	0.56
8:H:101:ALA:HB2	8:H:116:TYR:HE1	1.71	0.56
9:I:43:SER:HB2	9:I:45:LEU:HD21	1.88	0.56
13:M:88:ILE:HD12	13:M:90:LEU:HD21	1.87	0.56
13:M:186:ARG:HH11	13:M:366:VAL:HG21	1.70	0.56
15:O:197:ARG:O	15:O:199:GLY:N	2.38	0.56
15:O:206:ALA:HA	15:O:214:LEU:CD2	2.31	0.56
15:O:375:PHE:HB3	15:O:380:MET:HA	1.86	0.56
15:O:473:HIS:C	15:O:504:THR:HG23	2.30	0.56
15:O:571:HIS:CB	15:O:573:GLU:CD	2.79	0.56
15:O:574:TRP:CZ3	16:P:484:ALA:HB1	2.41	0.56
15:O:780:ILE:HG12	16:P:199:LEU:HD11	1.88	0.56
16:P:287:TRP:CZ2	16:P:298:VAL:HG21	2.37	0.56
3:C:95:GLU:HG3	12:L:67:PHE:CE2	2.39	0.56
8:H:96:VAL:HA	8:H:142:LEU:O	2.06	0.56
13:M:45:LYS:O	13:M:45:LYS:HG2	2.06	0.56
15:O:303:VAL:CG1	15:O:361:LYS:H	2.19	0.56
15:O:359:SER:HA	15:O:361:LYS:NZ	2.21	0.56
15:O:611:ILE:CD1	15:O:731:LEU:HG	2.35	0.56
15:O:736:ILE:HA	15:O:739:ASP:CG	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:149:GLN:HB2	16:P:150:GLU:OE1	2.06	0.56
16:P:497:GLN:HA	16:P:500:ASP:HB3	1.86	0.56
17:Q:1:MET:N	17:Q:218:ASP:OD2	2.39	0.56
17:Q:200:THR:HG1	17:Q:203:SER:CB	2.15	0.56
1:A:416:ARG:C	1:A:418:VAL:N	2.63	0.56
1:A:475:ARG:NH1	2:B:1068:GLY:O	2.28	0.56
1:A:496:GLY:HA3	1:A:615:ARG:HB2	1.88	0.56
1:A:1640:ARG:CG	1:A:1645:LYS:HB2	2.36	0.56
2:B:815:ARG:HH21	19:S:26:DT:H5''	1.68	0.56
7:G:75:ASN:OD1	7:G:76:LYS:N	2.38	0.56
8:H:8:ASP:O	8:H:57:VAL:N	2.39	0.56
8:H:113:ALA:HA	8:H:125:LEU:O	2.06	0.56
15:O:174:TRP:HA	17:Q:198:LEU:HD11	1.87	0.56
15:O:420:GLU:C	15:O:421:ILE:HG13	2.31	0.56
15:O:469:TYR:HB3	15:O:476:ILE:HD12	1.88	0.56
15:O:656:HIS:CD2	15:O:747:LEU:CA	2.89	0.56
16:P:118:TRP:CZ3	16:P:122:GLU:CG	2.88	0.56
16:P:169:SER:OG	16:P:175:PRO:HD2	2.06	0.56
16:P:226:LEU:HD23	16:P:226:LEU:C	2.30	0.56
17:Q:296:PRO:HB2	17:Q:304:HIS:CE1	2.38	0.56
1:A:921:PRO:CB	8:H:19:ARG:HG3	2.34	0.56
2:B:469:ASN:HA	2:B:481:VAL:O	2.06	0.56
5:E:81:GLU:N	5:E:109:ILE:O	2.39	0.56
5:E:128:PRO:HB2	5:E:129:PRO:CD	2.34	0.56
7:G:166:TRP:HZ3	7:G:225:ILE:HG21	1.70	0.56
11:K:58:GLY:C	11:K:59:THR:HG23	2.31	0.56
13:M:42:LYS:HG3	13:M:51:PHE:CE1	2.40	0.56
13:M:392:TYR:CE2	13:M:394:ILE:HD11	2.41	0.56
14:N:94:ASP:O	14:N:95:ILE:HG13	2.05	0.56
15:O:14:UNK:CB	15:O:438:TRP:CE3	2.89	0.56
15:O:324:TRP:CZ2	15:O:346:ASN:O	2.59	0.56
15:O:433:VAL:HG23	15:O:434:ARG:H	1.70	0.56
15:O:436:ILE:HG22	17:Q:141:TRP:CH2	2.37	0.56
15:O:454:GLN:HE22	15:O:513:THR:HG22	1.71	0.56
15:O:533:LEU:HD12	15:O:533:LEU:C	2.30	0.56
15:O:586:LYS:NZ	16:P:322:ARG:HH21	1.91	0.56
15:O:593:VAL:CB	16:P:320:PHE:CD2	2.79	0.56
15:O:718:LEU:HD21	15:O:737:VAL:HG11	1.86	0.56
16:P:211:TYR:O	16:P:213:SER:N	2.39	0.56
16:P:258:MET:HA	16:P:262:LEU:CB	2.34	0.56
17:Q:152:ILE:O	17:Q:152:ILE:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:302:ARG:HG3	17:Q:303:THR:HG22	1.87	0.56
17:Q:408:ILE:O	17:Q:411:VAL:HG12	2.06	0.56
1:A:52:LEU:HB2	1:A:63:SER:OG	2.06	0.56
1:A:67:LEU:HB2	1:A:72:CYS:CB	2.33	0.56
2:B:896:GLN:OE1	12:L:46:VAL:N	2.36	0.56
5:E:40:GLU:HA	5:E:43:LYS:HD3	1.86	0.56
15:O:401:ASN:O	15:O:419:ARG:N	2.39	0.56
15:O:438:TRP:CZ2	15:O:481:PHE:HD2	2.24	0.56
15:O:440:HIS:CD2	15:O:479:HIS:CD2	2.94	0.56
16:P:256:LEU:HD21	16:P:307:LEU:HD23	1.88	0.56
17:Q:274:MET:CA	17:Q:277:ILE:CG2	2.83	0.56
17:Q:277:ILE:CD1	17:Q:278:TYR:HD1	2.11	0.56
17:Q:346:ILE:O	17:Q:349:ILE:HG13	2.06	0.56
1:A:174:SER:HB3	1:A:177:LEU:HD13	1.88	0.55
1:A:485:SER:O	1:A:615:ARG:HA	2.07	0.55
1:A:1647:ASN:ND2	2:B:1085:SER:OG	2.38	0.55
2:B:111:ASP:O	2:B:112:GLY:C	2.49	0.55
5:E:14:ARG:HH22	5:E:141:VAL:HG13	1.71	0.55
14:N:114:GLU:HG3	14:N:116:LYS:H	1.71	0.55
15:O:311:ASP:OD1	15:O:313:GLN:HB2	2.06	0.55
15:O:583:GLU:OE1	15:O:583:GLU:C	2.48	0.55
16:P:381:MET:CE	16:P:385:PHE:HD2	2.19	0.55
16:P:491:PHE:CD1	16:P:491:PHE:N	2.72	0.55
17:Q:158:THR:C	17:Q:160:HIS:N	2.54	0.55
17:Q:362:ALA:O	17:Q:363:GLU:C	2.48	0.55
2:B:786:ALA:HB1	2:B:928:SER:HB3	1.88	0.55
2:B:906:ARG:HH11	3:C:93:GLN:HG3	1.71	0.55
15:O:312:LEU:C	15:O:312:LEU:HD22	2.30	0.55
15:O:623:LEU:HD13	15:O:669:PHE:HA	1.88	0.55
15:O:722:TRP:CZ2	16:P:262:LEU:HD11	2.41	0.55
16:P:400:MET:HA	16:P:407:LYS:HZ1	1.70	0.55
16:P:485:SER:O	16:P:489:VAL:CG2	2.52	0.55
17:Q:27:ILE:HD11	17:Q:169:PRO:HB2	1.88	0.55
1:A:431:GLN:O	1:A:435:ASN:ND2	2.39	0.55
2:B:155:VAL:CB	17:Q:359:MET:HE1	2.36	0.55
2:B:895:PHE:CZ	2:B:899:GLN:HB2	2.42	0.55
2:B:908:ARG:NH2	12:L:70:ARG:O	2.36	0.55
13:M:45:LYS:CE	13:M:49:ASP:C	2.79	0.55
15:O:363:ILE:HD12	15:O:363:ILE:O	2.06	0.55
15:O:396:ALA:HB3	17:Q:140:ILE:HD12	1.88	0.55
15:O:571:HIS:HB3	15:O:573:GLU:OE2	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:137:TRP:HA	16:P:140:ILE:HD12	1.87	0.55
16:P:257:VAL:HG12	16:P:262:LEU:CG	2.34	0.55
16:P:447:ALA:HA	16:P:450:THR:HB	1.88	0.55
17:Q:310:ILE:HG21	17:Q:363:GLU:CD	2.28	0.55
1:A:842:TRP:CD2	1:A:910:LYS:HE3	2.42	0.55
2:B:505:ARG:HG3	2:B:509:PHE:HD2	1.71	0.55
3:C:175:GLN:HB2	3:C:179:PHE:CE2	2.41	0.55
5:E:83:CYS:HB2	5:E:110:PHE:CZ	2.42	0.55
9:I:3:VAL:HA	9:I:8:ILE:HA	1.89	0.55
9:I:28:VAL:CG2	9:I:38:PRO:HD3	2.26	0.55
15:O:422:ILE:CG1	15:O:440:HIS:CD2	2.90	0.55
15:O:691:VAL:O	15:O:691:VAL:HG22	2.06	0.55
16:P:135:ILE:HD11	16:P:243:PHE:HZ	1.71	0.55
16:P:207:LEU:HG	16:P:209:ASN:CA	2.37	0.55
16:P:351:ASN:O	16:P:355:VAL:CG2	2.53	0.55
17:Q:137:SER:O	17:Q:296:PRO:CG	2.39	0.55
2:B:1063:ARG:N	20:T:19:DC:OP1	2.39	0.55
13:M:33:PRO:HD2	13:M:36:THR:HB	1.89	0.55
15:O:420:GLU:HA	15:O:442:LEU:CD1	2.37	0.55
15:O:607:VAL:HG21	15:O:735:GLU:OE1	2.07	0.55
15:O:706:GLU:OE2	16:P:346:GLU:OE2	2.25	0.55
15:O:736:ILE:HA	15:O:739:ASP:OD2	2.06	0.55
17:Q:282:SER:C	17:Q:301:SER:O	2.49	0.55
1:A:1254:PHE:HE1	1:A:1532:GLN:OE1	1.90	0.55
15:O:23:UNK:C	17:Q:314:TRP:CE3	2.89	0.55
15:O:275:GLU:O	15:O:284:VAL:HG12	2.03	0.55
15:O:275:GLU:HG2	15:O:285:MET:HG3	1.89	0.55
15:O:290:GLU:C	15:O:339:ARG:HH21	2.14	0.55
15:O:390:GLN:HG2	17:Q:151:PRO:HG2	1.87	0.55
15:O:400:SER:O	15:O:401:ASN:ND2	2.39	0.55
15:O:421:ILE:HG22	15:O:439:LYS:HG3	1.84	0.55
16:P:222:PHE:CD2	17:Q:206:ARG:HD2	2.41	0.55
1:A:257:ASN:OD1	1:A:258:GLU:N	2.40	0.55
1:A:464:GLU:OE1	1:A:464:GLU:N	2.38	0.55
1:A:786:TYR:N	1:A:786:TYR:CD1	2.72	0.55
1:A:1051:GLY:HA3	1:A:1580:ARG:HG2	1.89	0.55
5:E:83:CYS:SG	5:E:88:VAL:HG22	2.47	0.55
13:M:163:ASP:HA	13:M:166:ARG:HG2	1.88	0.55
15:O:9:UNK:O	15:O:11:UNK:N	2.39	0.55
15:O:351:ILE:CD1	17:Q:162:PHE:HE1	2.19	0.55
15:O:390:GLN:CD	17:Q:151:PRO:HD2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:483:HIS:CG	15:O:489:PHE:HE1	2.25	0.55
15:O:578:PHE:HZ	16:P:312:LEU:CD1	2.08	0.55
15:O:604:ILE:HG23	15:O:732:LEU:HD23	1.87	0.55
15:O:655:SER:OG	16:P:244:ASN:CA	2.55	0.55
16:P:381:MET:HE2	17:Q:216:LEU:HD11	1.87	0.55
17:Q:248:LYS:HA	17:Q:248:LYS:NZ	2.21	0.55
17:Q:282:SER:O	17:Q:302:ARG:HB3	2.07	0.55
17:Q:345:LEU:O	17:Q:349:ILE:CG1	2.54	0.55
17:Q:346:ILE:O	17:Q:349:ILE:CD1	2.55	0.55
1:A:109:ARG:C	1:A:230:ARG:HG3	2.32	0.55
1:A:203:THR:HG23	1:A:205:ARG:H	1.71	0.55
2:B:576:THR:HG21	2:B:595:TRP:HB2	1.88	0.55
2:B:858:ILE:HD11	2:B:874:TYR:HB2	1.88	0.55
4:D:30:HIS:HB3	7:G:36:ASN:HD22	1.70	0.55
15:O:200:THR:HB	15:O:218:VAL:CG1	2.36	0.55
15:O:323:ASN:HA	15:O:348:HIS:HB3	1.89	0.55
15:O:390:GLN:CG	17:Q:151:PRO:CG	2.84	0.55
16:P:137:TRP:CZ3	16:P:140:ILE:HG21	2.42	0.55
16:P:330:TRP:NE1	16:P:452:PHE:CD1	2.75	0.55
16:P:337:SER:HB3	16:P:448:LYS:HD3	1.87	0.55
16:P:378:LEU:CG	17:Q:234:LYS:HB3	2.36	0.55
20:T:10:DC:C2'	20:T:11:DT:H71	2.36	0.55
1:A:246:ASP:OD1	1:A:247:GLY:N	2.40	0.55
2:B:96:SER:HB2	2:B:144:SER:HB2	1.89	0.55
2:B:697:LEU:HB3	2:B:701:ALA:HB3	1.89	0.55
2:B:800:TYR:OH	2:B:908:ARG:NE	2.34	0.55
14:N:96:GLU:CG	14:N:132:GLN:HB3	2.36	0.55
15:O:195:ASN:N	15:O:197:ARG:NH1	2.55	0.55
15:O:275:GLU:CB	15:O:285:MET:CG	2.85	0.55
15:O:383:ILE:CG1	15:O:390:GLN:CG	2.85	0.55
15:O:413:GLY:HA2	15:O:426:ALA:CB	2.36	0.55
15:O:513:THR:HG23	15:O:513:THR:O	2.07	0.55
15:O:725:VAL:HB	16:P:450:THR:HA	1.88	0.55
15:O:736:ILE:CG2	15:O:736:ILE:O	2.54	0.55
16:P:184:TRP:HZ2	16:P:192:TYR:CD2	2.12	0.55
16:P:356:VAL:HG13	16:P:358:PRO:CG	2.21	0.55
17:Q:181:THR:HA	19:S:10:DG:OP1	2.07	0.55
17:Q:355:THR:C	17:Q:359:MET:HG2	1.87	0.55
1:A:40:ASN:HB3	1:A:43:HIS:HD2	1.71	0.55
1:A:828:CYS:SG	1:A:925:MET:HE2	2.47	0.55
1:A:1568:ASN:O	1:A:1572:ARG:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:479:GLN:CG	19:S:39:DT:O2	2.48	0.55
5:E:79:TRP:HB2	5:E:105:PHE:CD2	2.42	0.55
7:G:94:PRO:O	7:G:95:LEU:HB3	2.07	0.55
8:H:10:PHE:CD1	8:H:30:SER:HA	2.42	0.55
15:O:188:GLN:HB2	15:O:199:GLY:HA2	0.62	0.55
15:O:314:GLN:O	15:O:327:GLY:O	2.25	0.55
15:O:373:LEU:CD2	15:O:382:GLU:HG3	2.37	0.55
15:O:380:MET:HE1	15:O:434:ARG:CZ	2.37	0.55
15:O:423:ILE:HA	15:O:439:LYS:HB3	1.88	0.55
15:O:431:ASP:OD1	15:O:432:PRO:CD	2.53	0.55
15:O:473:HIS:O	15:O:504:THR:HG23	2.07	0.55
15:O:657:SER:O	15:O:658:LYS:CD	2.55	0.55
15:O:725:VAL:CG1	16:P:450:THR:HA	2.37	0.55
17:Q:207:ASN:O	17:Q:211:ARG:N	2.19	0.55
17:Q:396:ASP:O	17:Q:397:ARG:CG	2.52	0.55
1:A:342:ARG:NH1	1:A:1629:ASN:O	2.38	0.54
1:A:1229:ALA:HB3	1:A:1597:ALA:HB2	1.88	0.54
2:B:874:TYR:CZ	2:B:876:SER:HB3	2.42	0.54
2:B:934:ILE:HB	3:C:69:ARG:HG3	1.88	0.54
3:C:142:ARG:NH2	10:J:67:GLU:OE2	2.38	0.54
3:C:147:PRO:HG2	3:C:155:GLU:OE2	2.07	0.54
5:E:88:VAL:HG12	5:E:93:MET:HB2	1.89	0.54
11:K:58:GLY:O	11:K:59:THR:HG22	2.07	0.54
15:O:318:ILE:HG23	15:O:340:LYS:NZ	2.22	0.54
15:O:359:SER:O	15:O:360:TRP:CD1	2.61	0.54
15:O:419:ARG:CZ	15:O:420:GLU:OE1	2.55	0.54
15:O:428:GLU:HG2	15:O:435:ARG:HB3	1.88	0.54
15:O:511:ILE:O	15:O:512:LEU:CB	2.56	0.54
15:O:725:VAL:HB	16:P:450:THR:CB	2.36	0.54
16:P:104:PHE:CG	16:P:211:TYR:CB	2.79	0.54
16:P:184:TRP:NE1	16:P:190:MET:CB	2.40	0.54
16:P:238:HIS:CE1	16:P:289:ARG:NE	2.71	0.54
17:Q:245:VAL:HG21	17:Q:250:LEU:HD21	1.89	0.54
17:Q:388:LYS:HE3	17:Q:393:ILE:HB	1.89	0.54
19:S:28:DT:C2	19:S:29:DT:C5	2.95	0.54
1:A:17:GLY:O	2:B:1187:SER:HA	2.06	0.54
1:A:65:CYS:O	1:A:67:LEU:HG	2.07	0.54
1:A:642:ASN:O	1:A:646:GLU:HG3	2.06	0.54
1:A:911:CYS:O	1:A:912:VAL:O	2.24	0.54
1:A:1297:PHE:CE1	9:I:64:LYS:HD2	2.42	0.54
2:B:1150:LYS:HB3	2:B:1162:GLY:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:227:TYR:HB3	3:C:300:PHE:CE1	2.42	0.54
7:G:90:LEU:HD13	7:G:119:HIS:CE1	2.43	0.54
12:L:31:CYS:HA	12:L:56:LEU:HD23	1.88	0.54
13:M:279:ASN:ND2	13:M:282:LYS:HD3	2.22	0.54
15:O:312:LEU:CD2	15:O:315:PHE:HE1	2.16	0.54
15:O:315:PHE:O	15:O:317:ILE:N	2.40	0.54
15:O:599:LYS:CB	16:P:272:GLN:NE2	2.66	0.54
15:O:653:SER:HB2	15:O:749:LYS:CG	2.38	0.54
15:O:655:SER:C	16:P:244:ASN:HD22	2.16	0.54
15:O:771:ILE:O	15:O:774:SER:HB2	2.07	0.54
16:P:103:LEU:HD23	16:P:106:LYS:CD	2.28	0.54
16:P:137:TRP:NE1	16:P:141:LEU:HD11	2.21	0.54
16:P:233:THR:O	16:P:237:ILE:HG13	2.07	0.54
16:P:402:MET:O	16:P:406:GLN:CB	2.55	0.54
17:Q:352:TRP:CB	17:Q:358:PHE:CZ	2.46	0.54
1:A:50:TYR:OH	1:A:383:ASN:ND2	2.40	0.54
1:A:52:LEU:O	1:A:63:SER:N	2.39	0.54
1:A:116:HIS:ND1	1:A:185:ARG:CD	2.60	0.54
1:A:615:ARG:NH2	2:B:928:SER:O	2.35	0.54
2:B:186:GLU:CD	2:B:731:VAL:H	2.14	0.54
2:B:215:MET:HE3	2:B:217:ILE:HG21	1.89	0.54
2:B:1131:CYS:HB2	2:B:1163:GLN:HA	1.89	0.54
5:E:78:LEU:HD21	5:E:109:ILE:HG12	1.89	0.54
5:E:83:CYS:O	5:E:113:GLN:HG3	2.06	0.54
13:M:31:ARG:HH21	14:N:128:ASN:HD22	1.56	0.54
15:O:264:ILE:HG22	15:O:265:THR:N	2.22	0.54
17:Q:247:ILE:HG13	17:Q:298:GLN:HG2	0.55	0.54
1:A:19:LEU:HD12	2:B:1186:ASP:HA	1.88	0.54
1:A:246:ASP:CG	1:A:250:LYS:H	2.16	0.54
1:A:385:LEU:HG	1:A:453:ILE:HD11	1.88	0.54
1:A:411:VAL:HG13	1:A:412:SER:N	2.22	0.54
1:A:1144:LEU:O	1:A:1148:LEU:HG	2.08	0.54
1:A:1179:ILE:HD11	1:A:1183:GLU:HG2	1.89	0.54
1:A:1233:ILE:HG22	1:A:1235:THR:H	1.71	0.54
5:E:22:MET:HA	5:E:187:TYR:CZ	2.42	0.54
7:G:48:SER:HA	7:G:114:GLY:O	2.06	0.54
7:G:97:LYS:H	7:G:97:LYS:CD	2.17	0.54
7:G:97:LYS:CE	7:G:97:LYS:CA	2.86	0.54
9:I:26:SER:C	9:I:38:PRO:HB2	2.31	0.54
15:O:65:UNK:O	15:O:66:UNK:C	2.56	0.54
15:O:260:LEU:HD21	15:O:273:ARG:C	2.09	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:314:GLN:C	15:O:316:ALA:N	2.65	0.54
15:O:463:LEU:HA	15:O:482:SER:HA	1.89	0.54
15:O:656:HIS:CG	15:O:747:LEU:CA	2.90	0.54
16:P:294:HIS:CG	20:T:48:DA:H61	2.23	0.54
16:P:369:TRP:CH2	16:P:377:PHE:CE1	2.79	0.54
16:P:417:PHE:HE1	17:Q:258:LEU:HD11	1.72	0.54
17:Q:155:GLN:O	17:Q:156:LYS:C	2.49	0.54
17:Q:380:SER:C	17:Q:384:VAL:HG22	2.32	0.54
19:S:21:DT:H2''	19:S:22:DG:O4'	2.06	0.54
1:A:757:ASN:OD1	1:A:767:ASN:N	2.36	0.54
1:A:916:THR:HG21	1:A:926:GLN:NE2	2.23	0.54
1:A:1267:ILE:HG12	1:A:1296:PHE:HE1	1.73	0.54
13:M:103:LYS:HA	13:M:106:LYS:HD2	1.88	0.54
15:O:303:VAL:O	15:O:304:ASP:HB2	2.07	0.54
15:O:325:SER:HA	15:O:344:ILE:HD11	1.90	0.54
15:O:659:LEU:HB2	15:O:742:TRP:CE2	2.40	0.54
16:P:104:PHE:CE1	16:P:215:LEU:HD11	2.42	0.54
16:P:154:LEU:H	16:P:154:LEU:CD2	2.20	0.54
16:P:170:THR:O	16:P:171:HIS:C	2.47	0.54
16:P:274:ILE:CA	16:P:278:GLU:CB	2.85	0.54
16:P:274:ILE:HG23	16:P:278:GLU:OE1	2.07	0.54
16:P:417:PHE:N	16:P:418:PRO:CD	2.70	0.54
1:A:591:ARG:HB2	1:A:624:TYR:CD1	2.42	0.54
1:A:885:ASP:OD2	1:A:888:LYS:N	2.20	0.54
3:C:134:LEU:HD23	3:C:169:PHE:HA	1.90	0.54
5:E:110:PHE:O	5:E:135:PHE:N	2.36	0.54
9:I:43:SER:O	9:I:45:LEU:CG	2.56	0.54
14:N:95:ILE:CD1	14:N:136:VAL:HB	2.33	0.54
15:O:312:LEU:HD13	15:O:312:LEU:C	2.32	0.54
15:O:604:ILE:CA	15:O:732:LEU:CD2	2.83	0.54
15:O:653:SER:HB2	15:O:749:LYS:HG3	1.88	0.54
15:O:715:TYR:OH	15:O:734:LYS:CE	2.29	0.54
16:P:336:GLU:O	16:P:337:SER:C	2.50	0.54
2:B:479:GLN:CA	19:S:39:DT:O2	2.55	0.54
7:G:97:LYS:H	7:G:97:LYS:NZ	2.06	0.54
9:I:28:VAL:N	9:I:38:PRO:HD2	2.22	0.54
13:M:45:LYS:CE	13:M:49:ASP:CA	2.85	0.54
13:M:51:PHE:HD2	13:M:94:PRO:HG3	1.72	0.54
13:M:170:LYS:HE3	13:M:170:LYS:CA	2.38	0.54
15:O:213:VAL:HG13	15:O:236:ILE:O	2.07	0.54
15:O:326:ILE:N	15:O:344:ILE:HD13	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:722:TRP:CZ2	16:P:262:LEU:CD1	2.86	0.54
16:P:272:GLN:O	16:P:275:GLU:HB3	2.08	0.54
16:P:303:GLU:O	16:P:306:VAL:N	2.40	0.54
17:Q:27:ILE:HD11	17:Q:169:PRO:CB	2.32	0.54
19:S:8:DG:N2	20:T:47:DC:O2	2.40	0.54
2:B:221:SER:HB3	19:S:40:DT:C3'	2.38	0.54
9:I:2:SER:N	9:I:9:PHE:O	2.40	0.54
13:M:38:PHE:CE2	14:N:110:LEU:HD22	2.34	0.54
15:O:351:ILE:HG12	17:Q:162:PHE:HE1	1.69	0.54
15:O:390:GLN:CD	17:Q:151:PRO:CD	2.80	0.54
15:O:569:VAL:CG2	16:P:478:ARG:N	2.56	0.54
15:O:768:TYR:HB2	16:P:145:ASN:ND2	2.10	0.54
17:Q:29:ARG:CD	17:Q:29:ARG:H	2.20	0.54
17:Q:158:THR:O	17:Q:160:HIS:CA	2.52	0.54
1:A:406:LEU:CD2	1:A:416:ARG:NE	2.67	0.54
1:A:593:PRO:C	1:A:595:LEU:H	2.16	0.54
1:A:720:PHE:CD2	8:H:63:LEU:HD11	2.43	0.54
2:B:110:ASN:O	2:B:111:ASP:O	2.26	0.54
2:B:679:GLN:H	2:B:679:GLN:CD	2.16	0.54
8:H:101:ALA:HB2	8:H:116:TYR:CE1	2.43	0.54
15:O:580:ASN:CB	16:P:506:LYS:HZ3	2.19	0.54
17:Q:133:LYS:HG3	17:Q:286:GLN:CG	2.38	0.54
17:Q:158:THR:HG22	17:Q:161:ASN:CB	2.32	0.54
17:Q:285:VAL:HG22	17:Q:302:ARG:HD3	1.90	0.54
1:A:1097:TYR:CE1	1:A:1101:THR:HG21	2.42	0.54
2:B:895:PHE:CE1	2:B:899:GLN:HB2	2.42	0.54
3:C:61:THR:H	3:C:295:ARG:NH2	2.06	0.54
7:G:167:THR:O	7:G:218:VAL:N	2.25	0.54
7:G:218:VAL:HG13	7:G:223:GLU:C	2.33	0.54
9:I:28:VAL:HG23	9:I:37:TYR:CB	2.36	0.54
12:L:26:THR:HB	12:L:28:LYS:HE2	1.88	0.54
15:O:194:ARG:CZ	15:O:194:ARG:CB	2.86	0.54
15:O:408:ILE:HD11	15:O:464:LEU:HD13	1.90	0.54
15:O:511:ILE:CD1	15:O:537:PHE:HA	2.38	0.54
16:P:151:GLU:OE2	16:P:154:LEU:HD12	1.92	0.54
1:A:101:SER:O	1:A:109:ARG:NH1	2.36	0.53
1:A:1288:ARG:NE	1:A:1480:THR:OG1	2.39	0.53
3:C:251:PHE:CE1	3:C:279:VAL:HB	2.43	0.53
11:K:88:PHE:HB3	11:K:106:GLN:CG	2.37	0.53
13:M:236:TYR:CE2	13:M:238:ASN:HB3	2.43	0.53
14:N:111:VAL:HG23	14:N:120:LYS:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:246:LYS:HB3	15:O:248:PRO:HD3	1.90	0.53
15:O:353:ASP:C	17:Q:28:SER:CB	2.81	0.53
15:O:714:PHE:C	15:O:714:PHE:CD1	2.85	0.53
16:P:120:ILE:HD11	16:P:130:GLU:HB2	1.90	0.53
16:P:123:MET:CB	16:P:125:PHE:HD2	2.17	0.53
16:P:260:CYS:O	16:P:262:LEU:N	2.34	0.53
17:Q:173:MET:HA	17:Q:173:MET:CE	2.29	0.53
1:A:365:THR:OG1	1:A:368:ARG:NH2	2.41	0.53
1:A:560:GLN:O	1:A:575:LYS:NZ	2.29	0.53
1:A:645:ALA:O	1:A:649:ASN:ND2	2.31	0.53
2:B:392:ASP:HB3	2:B:399:HIS:CE1	2.43	0.53
2:B:881:TYR:HB2	2:B:906:ARG:HE	1.74	0.53
2:B:1114:GLN:H	2:B:1166:LYS:HE2	1.73	0.53
7:G:240:GLY:O	7:G:241:ARG:C	2.51	0.53
8:H:39:THR:HB	8:H:124:ARG:HB3	1.90	0.53
8:H:80:ARG:HG2	8:H:81:PRO:O	2.09	0.53
13:M:168:ALA:O	13:M:169:SER:O	2.26	0.53
14:N:93:THR:O	14:N:93:THR:HG22	2.06	0.53
15:O:394:VAL:HG12	17:Q:141:TRP:NE1	2.23	0.53
15:O:650:LEU:CD2	16:P:139:LYS:HD2	2.36	0.53
16:P:104:PHE:HA	16:P:211:TYR:CE1	2.42	0.53
17:Q:246:GLN:NE2	17:Q:246:GLN:H	2.07	0.53
17:Q:381:ARG:N	17:Q:384:VAL:CG2	2.70	0.53
1:A:486:PRO:HB3	1:A:628:PHE:CE2	2.43	0.53
1:A:499:PRO:HA	1:A:502:ALA:HB3	1.91	0.53
1:A:1074:TYR:O	1:A:1078:LYS:HG2	2.08	0.53
15:O:319:ASP:OD1	15:O:348:HIS:HE1	1.85	0.53
15:O:683:PHE:CD1	15:O:692:THR:OG1	2.61	0.53
15:O:703:PHE:CZ	16:P:254:LEU:HD23	2.43	0.53
16:P:112:LEU:HD13	16:P:161:THR:HG23	1.90	0.53
16:P:234:CYS:C	16:P:289:ARG:HB3	2.33	0.53
16:P:274:ILE:CA	16:P:278:GLU:HB3	2.39	0.53
17:Q:124:GLU:CG	17:Q:289:ASN:HD21	2.21	0.53
1:A:464:GLU:HG3	1:A:469:LYS:HB3	1.89	0.53
2:B:504:HIS:HE1	2:B:541:LEU:HB3	1.74	0.53
15:O:214:LEU:N	15:O:236:ILE:CG2	2.71	0.53
15:O:291:PRO:HA	15:O:339:ARG:NH2	2.24	0.53
15:O:651:SER:O	15:O:749:LYS:CE	2.23	0.53
16:P:155:GLN:CB	20:T:45:DC:OP1	2.54	0.53
16:P:356:VAL:CG1	16:P:358:PRO:CG	2.83	0.53
17:Q:147:GLN:OE1	17:Q:147:GLN:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:285:VAL:CG2	17:Q:302:ARG:CD	2.86	0.53
19:S:25:DT:C2'	19:S:26:DT:H71	2.38	0.53
1:A:117:ARG:CG	1:A:185:ARG:NH2	2.60	0.53
1:A:925:MET:HA	1:A:928:MET:HE3	1.90	0.53
1:A:1029:GLY:O	1:A:1041:ALA:N	2.41	0.53
2:B:1121:GLY:C	7:G:239:THR:OG1	2.52	0.53
6:F:79:ARG:HA	6:F:144:GLU:OE2	2.08	0.53
13:M:53:LEU:HB2	13:M:96:LEU:HD13	1.91	0.53
13:M:170:LYS:CE	13:M:170:LYS:CA	2.86	0.53
15:O:174:TRP:HA	17:Q:198:LEU:CD1	2.39	0.53
15:O:270:GLN:NE2	15:O:289:SER:H	2.06	0.53
15:O:307:PHE:CD1	15:O:307:PHE:N	2.73	0.53
15:O:314:GLN:HB2	15:O:329:ILE:CG1	2.38	0.53
15:O:324:TRP:NE1	15:O:348:HIS:CA	2.70	0.53
15:O:409:ASP:OD2	15:O:455:LYS:NZ	2.40	0.53
16:P:101:LYS:HZ2	16:P:152:LEU:HD13	1.14	0.53
16:P:129:PHE:O	16:P:129:PHE:HD1	1.92	0.53
16:P:183:LYS:CG	16:P:189:LYS:CE	2.86	0.53
17:Q:24:ILE:O	17:Q:28:SER:HB3	2.04	0.53
17:Q:133:LYS:HE3	17:Q:134:PRO:CD	2.38	0.53
17:Q:278:TYR:CD1	17:Q:278:TYR:N	2.73	0.53
20:T:19:DC:H2''	20:T:20:DA:O4'	2.08	0.53
1:A:721:LYS:HB2	8:H:96:VAL:N	2.23	0.53
1:A:1055:ILE:HD11	1:A:1174:TYR:CE2	2.43	0.53
1:A:1317:ILE:HA	1:A:1321:PHE:HB3	1.89	0.53
1:A:1617:THR:HG22	20:T:12:DG:H5''	1.89	0.53
2:B:293:ILE:HG13	2:B:296:ASP:HB3	1.89	0.53
2:B:627:GLY:O	2:B:640:LEU:HD12	2.09	0.53
13:M:212:GLU:HG2	13:M:293:ILE:HG12	1.90	0.53
15:O:181:ARG:HD2	15:O:206:ALA:CB	2.38	0.53
15:O:390:GLN:OE1	17:Q:151:PRO:CG	2.55	0.53
15:O:408:ILE:O	15:O:408:ILE:HG12	2.08	0.53
15:O:693:PHE:CD2	15:O:746:ARG:HB2	2.43	0.53
16:P:104:PHE:CG	16:P:211:TYR:CG	2.94	0.53
16:P:183:LYS:HG2	16:P:189:LYS:CE	2.39	0.53
16:P:369:TRP:HZ3	16:P:377:PHE:CD2	2.26	0.53
17:Q:152:ILE:O	17:Q:153:ASN:C	2.50	0.53
17:Q:266:SER:O	17:Q:268:LEU:CA	2.53	0.53
17:Q:380:SER:C	17:Q:384:VAL:CG2	2.81	0.53
1:A:15:ASP:HB2	2:B:1190:SER:CB	2.33	0.53
1:A:107:HIS:CE1	1:A:330:LYS:HB3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:416:LYS:HG3	2:B:461:MET:CE	2.39	0.53
2:B:810:ASP:OD1	2:B:811:LEU:N	2.41	0.53
5:E:9:ILE:HG12	5:E:47:CYS:SG	2.49	0.53
15:O:221:ARG:HD3	15:O:227:LEU:HD21	1.89	0.53
15:O:260:LEU:HD12	15:O:271:ILE:CG2	2.39	0.53
15:O:307:PHE:CD1	15:O:315:PHE:CD2	2.83	0.53
15:O:422:ILE:CB	15:O:440:HIS:NE2	2.65	0.53
15:O:455:LYS:O	15:O:455:LYS:HG3	2.08	0.53
15:O:472:ARG:NH1	17:Q:203:SER:HB3	2.23	0.53
15:O:475:ARG:HD2	16:P:367:PHE:HE2	1.63	0.53
15:O:539:VAL:HG23	15:O:539:VAL:O	2.08	0.53
15:O:630:LEU:HD12	15:O:630:LEU:C	2.33	0.53
15:O:655:SER:C	16:P:244:ASN:ND2	2.66	0.53
15:O:701:HIS:ND1	16:P:123:MET:HA	2.24	0.53
15:O:705:HIS:O	15:O:705:HIS:CG	2.59	0.53
16:P:382:GLU:O	16:P:382:GLU:CD	2.52	0.53
1:A:32:ILE:HG13	1:A:54:LEU:HD11	1.90	0.53
1:A:1263:LEU:O	1:A:1267:ILE:HG13	2.09	0.53
4:D:28:PRO:HB3	7:G:41:VAL:HB	1.91	0.53
8:H:7:ASP:HA	8:H:58:THR:HA	1.91	0.53
15:O:12:UNK:HA	15:O:436:ILE:HD13	1.87	0.53
15:O:186:TYR:CD2	15:O:512:LEU:HD22	2.41	0.53
15:O:396:ALA:HB2	17:Q:140:ILE:HD12	1.91	0.53
15:O:693:PHE:C	15:O:693:PHE:CD1	2.87	0.53
15:O:703:PHE:CE2	16:P:254:LEU:HD21	2.44	0.53
16:P:103:LEU:CD2	16:P:203:TRP:CZ3	2.89	0.53
16:P:171:HIS:CE1	16:P:243:PHE:CD1	2.97	0.53
16:P:219:ILE:CG1	16:P:220:SER:H	2.17	0.53
17:Q:283:ARG:CA	17:Q:302:ARG:HA	2.39	0.53
17:Q:396:ASP:C	17:Q:397:ARG:HG3	2.33	0.53
20:T:22:DG:H5"	20:T:22:DG:C8	2.38	0.53
1:A:102:CYS:O	1:A:106:HIS:HA	2.08	0.53
1:A:464:GLU:HA	1:A:468:ARG:HB2	1.90	0.53
2:B:23:SER:HA	2:B:26:ILE:HG22	1.89	0.53
3:C:45:SER:OG	3:C:271:ARG:NH2	2.39	0.53
5:E:98:ILE:HD12	5:E:101:GLN:HB3	1.91	0.53
7:G:74:ASN:HB3	7:G:77:VAL:CG2	2.35	0.53
13:M:274:ASN:CG	13:M:286:ARG:HG3	2.34	0.53
14:N:128:ASN:O	14:N:130:PRO:HD3	2.09	0.53
15:O:471:MET:C	15:O:504:THR:HG21	2.34	0.53
15:O:619:GLU:O	15:O:619:GLU:CD	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:703:PHE:C	15:O:703:PHE:CD1	2.85	0.53
16:P:178:THR:HG23	16:P:179:CYS:N	2.24	0.53
16:P:403:THR:C	16:P:405:ASP:N	2.54	0.53
1:A:669:LEU:H	1:A:787:GLY:HA2	1.70	0.53
1:A:831:ASP:OD1	1:A:832:ASP:N	2.42	0.53
2:B:1132:SER:HB3	2:B:1163:GLN:HB3	1.89	0.53
5:E:112:TYR:OH	5:E:136:ASN:HB2	2.09	0.53
7:G:27:PRO:O	7:G:35:SER:HA	2.08	0.53
7:G:110:ASP:CG	7:G:111:THR:HG23	2.34	0.53
11:K:58:GLY:C	11:K:59:THR:CG2	2.82	0.53
15:O:235:SER:O	15:O:236:ILE:HD13	2.09	0.53
15:O:344:ILE:HG13	15:O:345:ASP:N	2.23	0.53
15:O:393:VAL:HG12	17:Q:144:VAL:HG22	1.78	0.53
15:O:589:ILE:CG2	16:P:316:TRP:HE3	2.12	0.53
15:O:611:ILE:HD11	15:O:731:LEU:HG	1.90	0.53
15:O:656:HIS:CG	15:O:747:LEU:HA	2.44	0.53
16:P:233:THR:HG22	16:P:237:ILE:CD1	2.39	0.53
16:P:274:ILE:HG23	16:P:278:GLU:CD	2.34	0.53
16:P:281:ILE:HD13	16:P:281:ILE:N	2.10	0.53
16:P:311:MET:SD	16:P:487:LEU:HD21	2.49	0.53
1:A:469:LYS:HG3	1:A:470:HIS:CD2	2.43	0.52
1:A:510:PRO:HB2	1:A:574:ASN:HD21	1.74	0.52
1:A:721:LYS:C	1:A:723:TYR:N	2.52	0.52
1:A:746:GLY:HA3	1:A:773:ASP:C	2.34	0.52
1:A:1133:LEU:HD11	1:A:1172:LEU:HA	1.91	0.52
5:E:151:PRO:HB3	5:E:200:ARG:HA	1.92	0.52
6:F:127:GLU:HB3	6:F:129:LYS:HD3	1.92	0.52
15:O:270:GLN:NE2	15:O:289:SER:HB2	2.24	0.52
15:O:434:ARG:H	17:Q:144:VAL:HG21	1.73	0.52
15:O:446:ASP:OD1	15:O:448:THR:N	2.34	0.52
15:O:474:LYS:HE2	15:O:498:LEU:CG	2.40	0.52
15:O:623:LEU:HB3	15:O:674:GLU:OE1	2.09	0.52
15:O:696:PHE:CE1	15:O:711:LEU:HD21	2.20	0.52
15:O:725:VAL:HG21	16:P:450:THR:HA	1.91	0.52
16:P:155:GLN:HB3	20:T:44:DC:C3'	2.22	0.52
16:P:207:LEU:O	16:P:209:ASN:N	2.42	0.52
16:P:208:PRO:CB	16:P:213:SER:N	2.72	0.52
16:P:294:HIS:CE1	16:P:296:GLY:H	2.27	0.52
16:P:490:ASP:C	16:P:491:PHE:HD1	2.17	0.52
1:A:18:ILE:HA	2:B:1186:ASP:O	2.08	0.52
1:A:417:ARG:NH2	1:A:420:PHE:CD2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1158:SER:HB2	1:A:1161:VAL:HG23	1.91	0.52
9:I:42:PHE:HZ	9:I:44:ASN:CG	2.17	0.52
13:M:302:PHE:O	13:M:324:ASN:HB3	2.08	0.52
15:O:301:GLN:CB	15:O:321:LYS:HZ3	2.18	0.52
15:O:362:ARG:HB3	15:O:375:PHE:CE1	2.44	0.52
15:O:577:LEU:HD13	16:P:502:ILE:CG2	2.23	0.52
15:O:617:HIS:O	15:O:618:ASP:OD1	2.27	0.52
15:O:619:GLU:CD	15:O:619:GLU:C	2.76	0.52
15:O:656:HIS:HB3	15:O:748:GLU:CB	2.39	0.52
15:O:657:SER:O	15:O:658:LYS:HD3	2.09	0.52
16:P:136:ILE:CD1	16:P:168:ALA:HB2	2.34	0.52
16:P:238:HIS:CE1	16:P:289:ARG:NH1	2.76	0.52
1:A:107:HIS:ND1	1:A:331:GLU:OE2	2.32	0.52
1:A:702:PRO:HG3	1:A:712:ILE:HD11	1.91	0.52
1:A:845:ASP:O	1:A:848:LYS:HB2	2.08	0.52
3:C:84:TYR:O	3:C:204:LEU:HA	2.09	0.52
7:G:63:LYS:HA	7:G:67:ASN:ND2	2.24	0.52
7:G:137:ILE:HA	7:G:147:LEU:HD23	1.91	0.52
7:G:169:VAL:HG22	7:G:218:VAL:HG23	1.91	0.52
13:M:74:ASN:HD21	14:N:57:LYS:HB3	1.74	0.52
14:N:95:ILE:HD13	14:N:136:VAL:CB	2.37	0.52
15:O:201:GLU:HB2	15:O:219:LEU:HB2	1.90	0.52
15:O:478:MET:HE2	15:O:497:VAL:CG2	2.38	0.52
16:P:111:ILE:HG12	16:P:216:GLU:CD	2.34	0.52
16:P:262:LEU:HG	16:P:262:LEU:O	2.08	0.52
1:A:1531:ASP:OD2	1:A:1532:GLN:NE2	2.42	0.52
2:B:1006:ASN:OD1	2:B:1008:HIS:N	2.42	0.52
3:C:229:LEU:HB2	3:C:293:ARG:HD3	1.91	0.52
5:E:88:VAL:HG21	5:E:110:PHE:HE2	1.74	0.52
15:O:468:VAL:CG2	15:O:477:TYR:HB3	2.39	0.52
15:O:573:GLU:CD	16:P:495:LYS:HZ1	2.16	0.52
15:O:603:ARG:NH2	16:P:268:PHE:CG	2.76	0.52
16:P:246:GLU:O	16:P:247:ILE:O	2.28	0.52
16:P:246:GLU:C	16:P:286:LEU:N	2.64	0.52
16:P:301:HIS:HB2	16:P:304:LEU:HD13	1.92	0.52
16:P:360:LYS:N	16:P:361:PRO:HD3	2.22	0.52
17:Q:204:GLU:O	17:Q:205:VAL:C	2.51	0.52
17:Q:277:ILE:HD11	17:Q:278:TYR:CD1	2.28	0.52
17:Q:355:THR:H	17:Q:359:MET:H	1.57	0.52
2:B:585:CYS:HB2	2:B:595:TRP:CZ3	2.45	0.52
2:B:726:MET:HG3	2:B:742:TYR:CB	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:55:ARG:NE	5:E:113:GLN:HE21	2.07	0.52
9:I:43:SER:O	9:I:45:LEU:HD23	2.09	0.52
13:M:275:ARG:HA	13:M:320:ILE:HD12	1.90	0.52
15:O:214:LEU:CG	15:O:236:ILE:HG21	2.23	0.52
15:O:312:LEU:CD2	15:O:315:PHE:CE1	2.92	0.52
15:O:567:ILE:N	16:P:478:ARG:NH1	2.58	0.52
15:O:659:LEU:HD22	15:O:659:LEU:H	1.71	0.52
16:P:119:LEU:HD21	16:P:190:MET:CE	2.28	0.52
16:P:143:THR:HG21	16:P:236:MET:SD	2.33	0.52
16:P:182:ILE:HD11	16:P:350:ARG:CA	2.40	0.52
16:P:420:ASP:O	16:P:421:ARG:HB2	2.08	0.52
19:S:5:DT:H6	19:S:5:DT:H5''	1.74	0.52
1:A:43:HIS:HE2	13:M:186:ARG:CZ	2.22	0.52
1:A:497:VAL:HG21	1:A:605:VAL:HG13	1.92	0.52
1:A:1580:ARG:NH2	5:E:204:THR:OG1	2.42	0.52
3:C:272:LYS:HG2	14:N:175:TYR:CZ	2.43	0.52
7:G:169:VAL:O	7:G:216:HIS:N	2.43	0.52
9:I:37:TYR:O	9:I:39:LYS:N	2.40	0.52
13:M:342:PHE:O	13:M:396:THR:HA	2.10	0.52
14:N:23:PHE:HB3	14:N:25:ILE:CD1	2.40	0.52
15:O:269:PHE:CE1	15:O:339:ARG:HD2	2.35	0.52
15:O:436:ILE:HG21	17:Q:141:TRP:CE2	2.42	0.52
15:O:529:GLU:CG	15:O:530:ASN:H	2.23	0.52
15:O:604:ILE:CB	15:O:732:LEU:CD2	2.87	0.52
15:O:649:ILE:N	15:O:649:ILE:CD1	2.73	0.52
15:O:672:ILE:CD1	15:O:734:LYS:HZ3	2.08	0.52
16:P:104:PHE:CE1	16:P:212:VAL:N	2.78	0.52
16:P:157:HIS:CE1	16:P:158:MET:CG	2.85	0.52
16:P:176:VAL:CG2	16:P:177:TYR:N	2.73	0.52
16:P:287:TRP:CZ2	16:P:298:VAL:CG2	2.92	0.52
16:P:359:ASP:OD2	16:P:361:PRO:HG3	2.08	0.52
16:P:399:SER:HB2	16:P:402:MET:CG	2.39	0.52
16:P:482:HIS:O	16:P:485:SER:HB2	2.10	0.52
1:A:117:ARG:HB3	1:A:117:ARG:NH1	2.25	0.52
1:A:416:ARG:HH21	1:A:416:ARG:HG2	1.75	0.52
1:A:949:GLN:HE22	1:A:980:GLY:HA3	1.74	0.52
1:A:1101:THR:O	1:A:1105:ARG:HB2	2.09	0.52
1:A:1242:ILE:HD11	1:A:1517:ARG:HB3	1.91	0.52
2:B:479:GLN:HA	19:S:39:DT:C2	2.45	0.52
2:B:782:ASP:HA	2:B:786:ALA:O	2.09	0.52
2:B:916:LYS:NZ	18:R:5:G:O3'	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1153:ILE:HA	2:B:1158:ILE:O	2.10	0.52
13:M:31:ARG:NH2	14:N:128:ASN:HB3	2.25	0.52
15:O:383:ILE:CA	15:O:390:GLN:HG3	2.40	0.52
15:O:388:ASN:O	17:Q:150:GLN:OE1	2.27	0.52
15:O:611:ILE:HG23	15:O:731:LEU:HD23	1.91	0.52
15:O:746:ARG:HG3	16:P:172:LEU:O	2.10	0.52
16:P:139:LYS:CE	16:P:242:PHE:CE2	2.90	0.52
16:P:143:THR:HG21	16:P:236:MET:HE1	0.56	0.52
16:P:494:SER:HG	16:P:498:LEU:H	1.56	0.52
1:A:1326:GLU:OE2	1:A:1455:ARG:N	2.43	0.52
2:B:307:GLU:HB2	9:I:7:LEU:HD11	1.91	0.52
3:C:239:ILE:CG2	3:C:288:LYS:HD2	2.40	0.52
13:M:28:LYS:HZ1	14:N:104:LEU:HD12	1.74	0.52
13:M:62:TYR:HB3	13:M:100:VAL:HG22	1.92	0.52
15:O:599:LYS:HD3	16:P:272:GLN:CD	2.34	0.52
15:O:653:SER:CB	15:O:749:LYS:CG	2.88	0.52
15:O:660:LYS:CB	15:O:663:LEU:CD2	2.63	0.52
15:O:671:SER:C	15:O:673:PRO:HD2	2.35	0.52
15:O:706:GLU:CG	16:P:438:PHE:CG	2.91	0.52
15:O:744:LEU:HD22	15:O:744:LEU:H	1.73	0.52
16:P:227:TYR:CE2	16:P:304:LEU:HD11	2.44	0.52
16:P:235:GLY:HA2	16:P:289:ARG:CD	2.40	0.52
17:Q:133:LYS:HG2	17:Q:286:GLN:OE1	2.09	0.52
17:Q:383:PHE:CD2	17:Q:388:LYS:HB3	2.45	0.52
1:A:76:GLN:HE21	1:A:361:VAL:HB	1.74	0.52
1:A:403:LEU:HD22	13:M:162:VAL:HG11	1.91	0.52
1:A:781:LEU:C	1:A:786:TYR:HH	2.18	0.52
2:B:251:HIS:CE1	2:B:261:ARG:CD	2.92	0.52
2:B:462:GLN:O	2:B:466:SER:HB2	2.09	0.52
2:B:719:CYS:O	2:B:723:LYS:HB3	2.09	0.52
2:B:737:SER:HB3	2:B:806:THR:HG21	1.91	0.52
4:D:23:HIS:O	7:G:44:ALA:N	2.36	0.52
10:J:36:LEU:HD11	10:J:51:LEU:HD13	1.92	0.52
15:O:382:GLU:C	15:O:383:ILE:CG1	2.83	0.52
15:O:698:LYS:HB3	16:P:125:PHE:HE1	1.54	0.52
15:O:746:ARG:HH21	16:P:173:SER:HB3	1.70	0.52
16:P:157:HIS:CD2	16:P:158:MET:CG	2.85	0.52
16:P:360:LYS:NZ	16:P:360:LYS:CB	2.73	0.52
16:P:375:LEU:HD23	16:P:375:LEU:C	2.34	0.52
16:P:412:LYS:O	16:P:415:LYS:CB	2.49	0.52
17:Q:21:TYR:CE2	17:Q:291:ARG:NH2	2.76	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:133:LYS:HG3	17:Q:286:GLN:HG2	1.91	0.52
17:Q:248:LYS:CA	17:Q:248:LYS:NZ	2.73	0.52
17:Q:257:ILE:O	17:Q:261:LEU:HB2	2.10	0.52
1:A:403:LEU:HG	1:A:406:LEU:CD1	2.37	0.52
1:A:460:LEU:HD11	1:A:467:PHE:CE2	2.45	0.52
1:A:487:ASP:HB2	1:A:615:ARG:HD2	1.92	0.52
2:B:21:ARG:HD3	2:B:763:ASP:OD2	2.09	0.52
2:B:73:ILE:HD13	2:B:428:VAL:HB	1.92	0.52
3:C:235:ILE:HA	3:C:289:VAL:HG23	1.91	0.52
4:D:91:ARG:HG2	4:D:94:ARG:NH2	2.24	0.52
7:G:97:LYS:N	7:G:97:LYS:CD	2.73	0.52
8:H:101:ALA:HA	8:H:116:TYR:HD1	1.75	0.52
13:M:45:LYS:HD3	13:M:45:LYS:N	2.15	0.52
13:M:168:ALA:O	13:M:169:SER:C	2.53	0.52
15:O:214:LEU:N	15:O:236:ILE:CB	2.69	0.52
15:O:271:ILE:HG22	15:O:272:PHE:N	2.25	0.52
15:O:276:SER:OG	15:O:277:VAL:N	2.43	0.52
15:O:472:ARG:HD2	17:Q:200:THR:CG2	2.40	0.52
16:P:284:LEU:HD13	16:P:302:ALA:C	2.27	0.52
17:Q:248:LYS:HA	17:Q:298:GLN:NE2	2.25	0.52
17:Q:279:SER:OG	17:Q:281:LYS:HG3	2.10	0.52
17:Q:358:PHE:CD1	17:Q:365:TRP:CZ3	2.97	0.52
1:A:57:PHE:O	1:A:60:ASN:N	2.43	0.51
1:A:530:TRP:C	1:A:532:GLY:N	2.68	0.51
1:A:1291:VAL:HG22	1:A:1473:LYS:HG3	1.92	0.51
9:I:28:VAL:HB	9:I:37:TYR:CD2	2.45	0.51
13:M:158:ALA:HA	13:M:161:ILE:HD12	1.92	0.51
15:O:222:GLN:HG3	15:O:225:LEU:HD12	1.92	0.51
15:O:273:ARG:HH11	15:O:274:ILE:HG22	1.75	0.51
15:O:315:PHE:HB2	15:O:317:ILE:CD1	2.40	0.51
15:O:315:PHE:O	15:O:316:ALA:C	2.52	0.51
15:O:366:PHE:CE1	15:O:414:ILE:HD11	2.45	0.51
15:O:529:GLU:CG	15:O:530:ASN:N	2.73	0.51
15:O:665:ASN:C	15:O:667:ASP:H	2.16	0.51
15:O:705:HIS:CE1	15:O:707:ASP:HB2	2.39	0.51
1:A:406:LEU:HB3	1:A:416:ARG:NH1	2.24	0.51
1:A:1092:GLU:HA	1:A:1095:LEU:HB3	1.92	0.51
5:E:88:VAL:HG21	5:E:110:PHE:CE2	2.46	0.51
7:G:125:TRP:CH2	7:G:127:PRO:HG3	2.45	0.51
13:M:38:PHE:HD2	14:N:119:LEU:HB2	1.74	0.51
15:O:175:ASP:HA	17:Q:196:GLU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:232:ASN:ND2	15:O:283:ASP:HA	2.23	0.51
15:O:326:ILE:HG22	15:O:327:GLY:N	2.25	0.51
15:O:590:GLY:O	16:P:320:PHE:CZ	2.62	0.51
15:O:654:LEU:HG	15:O:748:GLU:CB	2.40	0.51
15:O:707:ASP:C	15:O:709:PRO:CD	2.83	0.51
16:P:257:VAL:C	16:P:262:LEU:HA	2.36	0.51
16:P:259:GLN:NE2	16:P:259:GLN:CA	2.73	0.51
16:P:366:TYR:OH	17:Q:215:THR:C	2.52	0.51
1:A:40:ASN:ND2	13:M:362:SER:OG	2.43	0.51
1:A:1237:GLN:H	1:A:1544:ASN:CG	2.18	0.51
2:B:113:VAL:O	2:B:114:SER:CB	2.43	0.51
5:E:26:ARG:NH2	5:E:187:TYR:O	2.40	0.51
9:I:42:PHE:CE1	9:I:44:ASN:CB	2.93	0.51
13:M:82:ASN:O	13:M:86:LYS:N	2.42	0.51
14:N:150:TYR:O	14:N:154:ARG:HG2	2.10	0.51
15:O:188:GLN:O	15:O:196:TYR:CE1	2.63	0.51
15:O:194:ARG:C	15:O:196:TYR:CD2	2.86	0.51
15:O:253:SER:O	15:O:254:ILE:HG13	2.10	0.51
15:O:314:GLN:CG	15:O:328:ARG:CB	2.84	0.51
15:O:382:GLU:C	15:O:383:ILE:CD1	2.84	0.51
15:O:414:ILE:HG22	15:O:415:LEU:N	2.24	0.51
15:O:650:LEU:HD22	16:P:242:PHE:CD2	2.45	0.51
16:P:210:TYR:HB3	20:T:43:DT:H5'	1.92	0.51
16:P:259:GLN:NE2	16:P:259:GLN:HA	2.26	0.51
16:P:278:GLU:CG	16:P:309:TYR:CE2	2.93	0.51
16:P:450:THR:CG2	16:P:451:PRO:HD3	2.40	0.51
17:Q:385:ASN:HD22	17:Q:385:ASN:N	2.07	0.51
1:A:406:LEU:HB3	1:A:416:ARG:NE	2.25	0.51
2:B:194:PHE:CD2	2:B:465:LEU:HD21	2.45	0.51
2:B:676:VAL:HB	2:B:680:GLU:OE2	2.10	0.51
2:B:823:GLN:HA	2:B:862:PHE:O	2.11	0.51
2:B:874:TYR:CE2	2:B:876:SER:HB3	2.46	0.51
2:B:1090:ASP:HA	2:B:1094:ASN:ND2	2.25	0.51
3:C:248:GLN:NE2	3:C:256:ILE:O	2.43	0.51
13:M:149:ILE:O	13:M:150:ASP:C	2.54	0.51
15:O:306:ALA:O	15:O:315:PHE:HD2	1.89	0.51
15:O:365:TRP:HE1	15:O:407:ARG:CZ	2.23	0.51
15:O:440:HIS:HE1	15:O:481:PHE:HE1	1.52	0.51
16:P:337:SER:OG	16:P:448:LYS:CD	2.59	0.51
17:Q:385:ASN:O	17:Q:389:ASN:C	2.53	0.51
1:A:403:LEU:HG	1:A:406:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:PHE:CE2	13:M:155:THR:HG23	2.45	0.51
1:A:471:MET:HE1	1:A:1642:VAL:HG13	1.93	0.51
1:A:646:GLU:OE1	2:B:1087:LEU:N	2.43	0.51
2:B:338:PHE:CE2	2:B:353:VAL:HG22	2.46	0.51
2:B:1162:GLY:O	2:B:1164:GLY:N	2.38	0.51
3:C:48:ASP:HB3	3:C:51:GLU:HG2	1.93	0.51
5:E:19:VAL:HG11	5:E:80:VAL:HG11	1.92	0.51
13:M:39:ASP:O	13:M:53:LEU:HD12	2.11	0.51
13:M:49:ASP:HB3	13:M:51:PHE:CE1	2.45	0.51
13:M:304:VAL:HG23	13:M:324:ASN:ND2	2.21	0.51
15:O:274:ILE:HD11	15:O:284:VAL:HG11	1.92	0.51
15:O:472:ARG:HD2	17:Q:200:THR:HG22	1.92	0.51
16:P:208:PRO:O	16:P:213:SER:OG	2.27	0.51
1:A:117:ARG:NH1	1:A:117:ARG:CB	2.73	0.51
1:A:326:THR:HG23	1:A:329:ARG:HH22	1.76	0.51
1:A:396:ILE:HG12	1:A:426:ALA:HB1	1.91	0.51
1:A:960:MET:HE3	1:A:964:LYS:HB2	1.91	0.51
4:D:82:LEU:HD22	7:G:67:ASN:HB3	1.91	0.51
7:G:133:LEU:N	7:G:231:PHE:O	2.35	0.51
13:M:81:PHE:HB2	13:M:88:ILE:HG22	1.91	0.51
15:O:408:ILE:HD13	15:O:464:LEU:HD13	1.92	0.51
15:O:620:ASP:CB	15:O:674:GLU:CD	2.84	0.51
15:O:663:LEU:CD2	15:O:742:TRP:HH2	2.02	0.51
16:P:155:GLN:NE2	16:P:215:LEU:HD21	2.18	0.51
16:P:247:ILE:HG21	16:P:302:ALA:HB3	0.61	0.51
16:P:284:LEU:CD2	16:P:305:ARG:HH12	2.20	0.51
17:Q:294:VAL:HG22	17:Q:295:PRO:HD2	1.86	0.51
19:S:22:DG:O6	20:T:32:DC:N4	2.43	0.51
1:A:673:HIS:NE2	2:B:783:MET:HE1	2.24	0.51
2:B:251:HIS:O	2:B:258:VAL:HA	2.10	0.51
7:G:157:ILE:HD13	7:G:249:LEU:HG	1.92	0.51
13:M:242:TYR:CD2	13:M:265:LEU:HD23	2.45	0.51
15:O:369:PHE:CZ	15:O:431:ASP:CB	2.93	0.51
15:O:416:LEU:HD12	15:O:417:THR:N	2.26	0.51
15:O:583:GLU:OE2	15:O:584:ARG:CD	2.58	0.51
15:O:623:LEU:HD13	15:O:668:SER:C	2.30	0.51
15:O:713:ILE:CG2	15:O:717:LYS:HE2	2.40	0.51
16:P:415:LYS:C	16:P:417:PHE:N	2.62	0.51
17:Q:153:ASN:O	17:Q:154:LYS:HB2	2.11	0.51
17:Q:246:GLN:O	17:Q:248:LYS:CB	2.59	0.51
17:Q:285:VAL:HG22	17:Q:302:ARG:CD	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:LYS:HB3	1:A:251:ILE:HD13	1.93	0.51
1:A:591:ARG:HB2	1:A:624:TYR:HD1	1.74	0.51
1:A:917:MET:HE1	2:B:1008:HIS:CE1	2.46	0.51
1:A:1262:LEU:HB2	1:A:1265:GLU:HG3	1.93	0.51
15:O:205:TYR:CD2	15:O:215:ASN:CB	2.93	0.51
15:O:205:TYR:O	15:O:215:ASN:N	2.43	0.51
15:O:706:GLU:HB2	16:P:438:PHE:HB3	1.93	0.51
16:P:171:HIS:CG	16:P:243:PHE:CG	2.99	0.51
16:P:200:PRO:HA	16:P:203:TRP:CD1	2.42	0.51
16:P:369:TRP:CE3	17:Q:219:LEU:CD1	2.90	0.51
17:Q:25:ASN:CA	17:Q:28:SER:HG	2.20	0.51
17:Q:310:ILE:CG2	17:Q:363:GLU:CD	2.82	0.51
19:S:39:DT:C6	19:S:39:DT:C3'	2.93	0.51
1:A:81:LEU:O	1:A:82:PRO:O	2.29	0.51
1:A:629:ASP:HB3	2:B:785:ASP:OD2	2.11	0.51
1:A:1463:ASP:OD2	1:A:1466:SER:OG	2.20	0.51
1:A:1527:GLN:HA	1:A:1530:TRP:CE3	2.46	0.51
2:B:976:GLY:O	10:J:32:GLU:HG3	2.11	0.51
2:B:1185:LEU:O	2:B:1186:ASP:HB3	2.10	0.51
8:H:93:TYR:HE1	8:H:145:ARG:NH1	2.09	0.51
11:K:91:TYR:HB2	11:K:101:LEU:HD21	1.92	0.51
11:K:136:THR:O	11:K:140:LYS:HG3	2.11	0.51
13:M:121:PRO:O	13:M:124:LEU:HB3	2.11	0.51
14:N:27:ASP:C	14:N:29:PHE:H	2.19	0.51
15:O:314:GLN:HB2	15:O:329:ILE:N	2.20	0.51
15:O:613:HIS:CD2	15:O:619:GLU:HG3	2.45	0.51
15:O:727:PRO:CG	16:P:265:GLU:OE1	2.58	0.51
1:A:35:PRO:HD3	1:A:394:LEU:CD1	2.41	0.51
1:A:660:PRO:HB2	1:A:1188:ILE:HG23	1.93	0.51
1:A:830:MET:HE1	2:B:963:PHE:HB3	1.92	0.51
1:A:1274:GLU:HA	1:A:1289:SER:O	2.11	0.51
1:A:1504:ILE:HD11	1:A:1525:ASN:HB3	1.93	0.51
1:A:1647:ASN:O	1:A:1652:GLY:HA3	2.10	0.51
2:B:168:ASN:O	2:B:169:ARG:NH1	2.42	0.51
2:B:733:LEU:HD12	2:B:743:ARG:HE	1.75	0.51
2:B:1127:CYS:N	2:B:1166:LYS:HE3	2.26	0.51
9:I:43:SER:O	9:I:45:LEU:CD2	2.59	0.51
10:J:18:TRP:CZ2	10:J:22:LEU:HD11	2.45	0.51
15:O:194:ARG:CB	15:O:197:ARG:HH12	2.23	0.51
15:O:470:SER:O	15:O:504:THR:CG2	2.59	0.51
15:O:730:GLU:HG2	15:O:733:THR:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:143:THR:C	17:Q:144:VAL:CG2	2.77	0.51
1:A:62:CYS:CB	1:A:72:CYS:SG	2.99	0.50
2:B:42:VAL:HG21	2:B:190:ILE:HB	1.93	0.50
7:G:154:ASN:O	7:G:245:VAL:HG12	2.03	0.50
13:M:55:GLY:HA3	13:M:62:TYR:CZ	2.46	0.50
15:O:298:ASP:O	15:O:299:ASP:OD1	2.29	0.50
15:O:327:GLY:HA2	15:O:342:GLN:HB3	1.93	0.50
15:O:488:LEU:HD21	15:O:490:GLN:HG2	1.93	0.50
15:O:535:VAL:O	15:O:552:LEU:N	2.44	0.50
15:O:578:PHE:CB	16:P:315:ASN:ND2	2.74	0.50
15:O:656:HIS:HA	15:O:747:LEU:O	2.11	0.50
16:P:151:GLU:O	16:P:151:GLU:HG3	2.11	0.50
16:P:257:VAL:HG12	16:P:262:LEU:C	2.36	0.50
16:P:274:ILE:HA	16:P:278:GLU:HB3	1.92	0.50
16:P:354:LYS:CD	16:P:362:THR:HG22	2.37	0.50
16:P:399:SER:C	16:P:407:LYS:CE	2.82	0.50
17:Q:212:HIS:O	17:Q:215:THR:CA	2.58	0.50
1:A:1478:ALA:HA	9:I:21:ASN:ND2	2.26	0.50
2:B:717:TYR:O	2:B:721:MET:HG2	2.11	0.50
3:C:171:PRO:HA	3:C:175:GLN:HE21	1.76	0.50
13:M:208:ILE:HG12	13:M:264:TYR:CD1	2.46	0.50
15:O:271:ILE:H	15:O:289:SER:HB2	1.76	0.50
15:O:302:VAL:CA	15:O:320:ILE:HG13	2.40	0.50
15:O:344:ILE:O	15:O:345:ASP:HB3	2.12	0.50
15:O:722:TRP:CZ3	16:P:264:PRO:CA	2.95	0.50
16:P:219:ILE:CG1	16:P:220:SER:N	2.74	0.50
16:P:315:ASN:OD1	16:P:315:ASN:C	2.54	0.50
16:P:378:LEU:HD12	17:Q:235:ILE:N	2.26	0.50
17:Q:247:ILE:HG23	17:Q:278:TYR:CE2	2.32	0.50
1:A:18:ILE:HG22	1:A:19:LEU:O	2.11	0.50
1:A:582:LYS:HD2	1:A:584:ARG:NE	2.26	0.50
1:A:722:PRO:HB3	8:H:46:LEU:HB3	1.92	0.50
1:A:1275:THR:O	1:A:1289:SER:HB2	2.11	0.50
2:B:858:ILE:CG1	2:B:874:TYR:HB2	2.41	0.50
2:B:1105:ARG:O	2:B:1196:LEU:CD2	2.57	0.50
15:O:290:GLU:HG2	15:O:338:LYS:HA	1.92	0.50
15:O:389:TRP:CZ3	17:Q:147:GLN:O	2.64	0.50
15:O:458:LYS:HB3	15:O:459:PRO:HD2	1.92	0.50
15:O:471:MET:O	15:O:504:THR:HB	2.11	0.50
15:O:554:ASN:C	15:O:555:THR:HG23	2.36	0.50
15:O:573:GLU:CB	16:P:495:LYS:HZ3	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:94:LYS:HG3	16:P:94:LYS:O	2.11	0.50
16:P:101:LYS:HE3	16:P:152:LEU:HA	1.92	0.50
17:Q:275:CYS:SG	17:Q:309:ALA:HA	2.51	0.50
17:Q:388:LYS:HE3	17:Q:393:ILE:CA	2.41	0.50
1:A:409:ASP:O	1:A:410:LYS:C	2.54	0.50
1:A:411:VAL:CG1	1:A:412:SER:N	2.74	0.50
1:A:1294:MET:HE1	1:A:1321:PHE:CE2	2.47	0.50
2:B:832:TRP:CD1	2:B:832:TRP:H	2.30	0.50
2:B:1104:CYS:SG	2:B:1128:CYS:HB2	2.47	0.50
5:E:55:ARG:HD2	5:E:84:ASP:HA	1.93	0.50
5:E:88:VAL:O	5:E:117:THR:OG1	2.19	0.50
6:F:87:LYS:HE3	6:F:88:TYR:CZ	2.47	0.50
15:O:308:ASN:HA	15:O:365:TRP:HB3	1.91	0.50
15:O:323:ASN:N	15:O:348:HIS:ND1	2.58	0.50
15:O:422:ILE:HB	15:O:440:HIS:CG	2.46	0.50
15:O:580:ASN:HB2	16:P:506:LYS:NZ	2.26	0.50
16:P:95:LEU:O	16:P:100:ALA:CB	2.57	0.50
16:P:144:ILE:HA	16:P:147:GLN:OE1	2.11	0.50
16:P:210:TYR:HB3	20:T:43:DT:C4'	2.37	0.50
16:P:366:TYR:CZ	17:Q:218:ASP:HB2	2.46	0.50
1:A:40:ASN:ND2	13:M:186:ARG:HH12	2.10	0.50
1:A:718:THR:OG1	1:A:730:GLN:NE2	2.44	0.50
2:B:897:GLU:H	2:B:897:GLU:CD	2.19	0.50
3:C:312:GLU:HA	3:C:315:PHE:HD2	1.76	0.50
5:E:151:PRO:HB2	5:E:199:ILE:O	2.11	0.50
9:I:27:ASN:HB3	9:I:39:LYS:HB2	1.93	0.50
15:O:11:UNK:O	15:O:436:ILE:HD11	2.11	0.50
15:O:214:LEU:HD11	15:O:242:ILE:HD13	1.92	0.50
15:O:400:SER:HA	15:O:419:ARG:CD	2.34	0.50
16:P:105:LEU:HD23	16:P:109:GLN:CD	2.36	0.50
16:P:136:ILE:HD11	16:P:243:PHE:HE2	1.76	0.50
16:P:340:GLN:HE22	16:P:370:SER:CB	2.15	0.50
16:P:355:VAL:C	17:Q:211:ARG:NH2	2.69	0.50
17:Q:393:ILE:HG12	17:Q:395:LEU:CB	2.41	0.50
17:Q:395:LEU:N	17:Q:395:LEU:CD2	2.73	0.50
1:A:403:LEU:HG	1:A:406:LEU:CG	2.41	0.50
1:A:920:PHE:CB	1:A:921:PRO:CD	2.60	0.50
2:B:479:GLN:CA	19:S:39:DT:H3	2.24	0.50
2:B:1176:VAL:O	2:B:1179:PRO:HD2	2.11	0.50
7:G:162:ILE:HD13	7:G:217:TRP:CZ3	2.46	0.50
13:M:346:ILE:HB	13:M:393:LYS:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:23:UNK:C	17:Q:314:TRP:CH2	2.95	0.50
15:O:360:TRP:O	15:O:361:LYS:HG3	2.12	0.50
15:O:401:ASN:N	15:O:419:ARG:HG2	2.17	0.50
15:O:474:LYS:CD	15:O:499:GLU:O	2.60	0.50
15:O:656:HIS:CB	15:O:747:LEU:N	2.72	0.50
15:O:721:CYS:HA	16:P:443:GLN:HG3	1.92	0.50
15:O:740:ILE:O	15:O:744:LEU:CD2	2.59	0.50
16:P:400:MET:HA	16:P:407:LYS:NZ	2.27	0.50
17:Q:133:LYS:HE3	17:Q:134:PRO:HD3	1.94	0.50
17:Q:178:LEU:HD23	17:Q:179:HIS:CG	2.46	0.50
1:A:332:GLN:NE2	1:A:350:VAL:H	2.08	0.50
1:A:646:GLU:OE1	2:B:1087:LEU:HB2	2.12	0.50
2:B:406:GLY:O	2:B:409:TYR:HB3	2.11	0.50
2:B:585:CYS:HB2	2:B:595:TRP:CH2	2.46	0.50
2:B:1138:ALA:HB3	2:B:1140:LYS:HE2	1.94	0.50
4:D:91:ARG:HB3	7:G:151:ASP:OD2	2.11	0.50
13:M:212:GLU:OE2	13:M:297:GLY:HA3	2.12	0.50
13:M:261:LEU:HD23	13:M:339:LEU:HG	1.93	0.50
15:O:262:GLY:O	15:O:263:ILE:CG1	2.54	0.50
15:O:650:LEU:HD22	16:P:242:PHE:HD2	1.77	0.50
15:O:775:TRP:CD1	16:P:109:GLN:C	2.90	0.50
16:P:357:TYR:HH	17:Q:203:SER:CB	2.17	0.50
17:Q:365:TRP:HA	17:Q:365:TRP:HE3	1.72	0.50
1:A:249:THR:HG21	1:A:432:ASN:HB2	1.93	0.50
1:A:912:VAL:C	1:A:914:ASP:N	2.59	0.50
1:A:921:PRO:HG2	8:H:19:ARG:CD	2.36	0.50
1:A:1152:SER:HA	1:A:1155:PHE:HB2	1.93	0.50
1:A:1241:PRO:O	1:A:1536:ILE:HG23	2.12	0.50
2:B:134:ARG:HB3	2:B:160:GLY:HA3	1.93	0.50
2:B:154:GLU:HB2	2:B:446:MET:CE	2.42	0.50
2:B:495:ARG:CZ	2:B:499:HIS:CE1	2.94	0.50
15:O:194:ARG:O	15:O:196:TYR:CE2	2.60	0.50
15:O:317:ILE:HG22	15:O:363:ILE:HD11	1.92	0.50
15:O:351:ILE:HG21	17:Q:157:MET:SD	2.34	0.50
15:O:537:PHE:HE1	15:O:552:LEU:CD1	2.24	0.50
15:O:610:LEU:HD11	15:O:614:GLU:OE2	2.12	0.50
15:O:614:GLU:CD	15:O:670:ALA:H	2.18	0.50
16:P:278:GLU:OE1	16:P:278:GLU:O	2.30	0.50
16:P:354:LYS:CB	16:P:362:THR:CB	2.90	0.50
17:Q:248:LYS:CA	17:Q:298:GLN:NE2	2.70	0.50
1:A:464:GLU:HG2	1:A:469:LYS:HD3	1.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:THR:HG21	2:B:1075:GLU:HA	1.94	0.50
1:A:952:LEU:N	1:A:955:ARG:O	2.28	0.50
2:B:161:LEU:HG	2:B:409:TYR:OH	2.12	0.50
2:B:253:LEU:HD12	2:B:257:GLN:HB3	1.94	0.50
2:B:924:LYS:NZ	18:R:6:A:OP2	2.40	0.50
3:C:252:PRO:HB2	3:C:255:VAL:HG23	1.93	0.50
7:G:234:ARG:HB2	7:G:248:THR:HB	1.94	0.50
14:N:41:ASN:OD1	14:N:44:ASN:HB3	2.12	0.50
15:O:327:GLY:HA3	15:O:340:LYS:CD	2.23	0.50
15:O:430:ASN:ND2	15:O:431:ASP:OD1	2.45	0.50
15:O:504:THR:H	15:O:542:ARG:HB3	1.77	0.50
15:O:573:GLU:CG	16:P:495:LYS:CE	2.90	0.50
15:O:722:TRP:HZ2	16:P:262:LEU:HD21	1.64	0.50
16:P:362:THR:HG22	16:P:365:ASP:OD2	2.12	0.50
16:P:385:PHE:O	16:P:388:THR:HG22	2.12	0.50
17:Q:380:SER:O	17:Q:383:PHE:O	2.29	0.50
17:Q:396:ASP:O	17:Q:397:ARG:C	2.55	0.50
18:R:2:U:H2'	18:R:3:G:O4'	2.12	0.50
1:A:704:ASP:OD2	1:A:706:HIS:NE2	2.45	0.49
1:A:835:LEU:HD23	1:A:916:THR:HA	1.94	0.49
2:B:218:ILE:HG13	2:B:218:ILE:O	2.12	0.49
2:B:297:VAL:HG21	14:N:101:GLN:NE2	2.26	0.49
2:B:494:TYR:HE1	2:B:703:LEU:HD13	1.76	0.49
2:B:833:PRO:HD2	2:B:836:TRP:CZ2	2.47	0.49
2:B:906:ARG:HD2	3:C:93:GLN:CD	2.36	0.49
2:B:1150:LYS:O	2:B:1161:ASP:HA	2.12	0.49
3:C:63:ILE:HG22	3:C:67:PHE:CE2	2.47	0.49
3:C:315:PHE:HB3	3:C:319:ARG:NH1	2.27	0.49
7:G:163:PRO:HG3	7:G:250:ILE:HG22	1.93	0.49
8:H:93:TYR:HB2	8:H:143:LEU:HB3	1.94	0.49
12:L:48:CYS:CB	12:L:51:CYS:SG	2.99	0.49
13:M:42:LYS:HB3	14:N:30:LYS:HB2	1.93	0.49
13:M:51:PHE:CD2	13:M:94:PRO:HG3	2.47	0.49
14:N:144:LYS:O	14:N:145:ILE:HG13	2.12	0.49
15:O:210:THR:O	15:O:211:GLY:C	2.41	0.49
15:O:247:ILE:CG1	15:O:261:VAL:HG13	2.42	0.49
15:O:366:PHE:HB2	15:O:373:LEU:HG	1.94	0.49
16:P:104:PHE:HE1	16:P:211:TYR:C	2.18	0.49
16:P:115:GLN:HE21	16:P:190:MET:CE	2.25	0.49
16:P:151:GLU:CD	16:P:154:LEU:HD13	2.22	0.49
16:P:343:THR:OG1	16:P:347:SER:CA	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:280:SER:C	17:Q:282:SER:H	2.20	0.49
19:S:24:DG:N3	19:S:25:DT:N3	2.60	0.49
1:A:992:PRO:HA	2:B:984:TRP:CZ2	2.47	0.49
5:E:5:ASN:ND2	5:E:51:GLY:HA3	2.23	0.49
12:L:47:ARG:CD	16:P:405:ASP:OD1	2.58	0.49
13:M:60:LEU:HA	13:M:102:SER:HA	1.94	0.49
15:O:183:ASP:CB	15:O:247:ILE:HD12	2.38	0.49
15:O:194:ARG:CB	15:O:197:ARG:NH2	2.68	0.49
15:O:214:LEU:CB	15:O:236:ILE:HG13	2.42	0.49
15:O:215:ASN:CA	15:O:236:ILE:CG1	2.89	0.49
16:P:487:LEU:HD12	16:P:487:LEU:C	2.37	0.49
19:S:7:DT:C2	20:T:48:DA:H2	2.31	0.49
1:A:499:PRO:HD3	1:A:608:LEU:O	2.12	0.49
1:A:781:LEU:C	1:A:786:TYR:CZ	2.91	0.49
1:A:1089:LEU:HB2	1:A:1131:LYS:O	2.11	0.49
1:A:1293:HIS:HE1	1:A:1469:TRP:CD2	2.31	0.49
2:B:164:MET:HB2	2:B:194:PHE:HE1	1.77	0.49
2:B:1180:PHE:HD2	2:B:1181:VAL:HG13	1.77	0.49
9:I:8:ILE:HD11	9:I:37:TYR:CE1	2.47	0.49
15:O:200:THR:OG1	15:O:218:VAL:HG13	2.13	0.49
15:O:291:PRO:CA	15:O:339:ARG:HH21	2.25	0.49
15:O:414:ILE:CG2	15:O:415:LEU:N	2.75	0.49
15:O:438:TRP:HH2	15:O:491:SER:CB	2.20	0.49
15:O:705:HIS:C	15:O:705:HIS:CD2	2.89	0.49
16:P:156:LEU:N	16:P:156:LEU:HD12	2.26	0.49
16:P:183:LYS:HG2	16:P:189:LYS:HE3	1.94	0.49
16:P:315:ASN:OD1	16:P:319:SER:CB	2.55	0.49
16:P:495:LYS:C	16:P:496:GLU:CD	2.80	0.49
17:Q:204:GLU:OE1	17:Q:205:VAL:HG23	2.13	0.49
1:A:406:LEU:CG	1:A:407:GLN:N	2.73	0.49
1:A:438:ILE:CD1	2:B:1184:TYR:HE2	2.26	0.49
1:A:790:LYS:HG3	1:A:791:TYR:CD2	2.46	0.49
1:A:921:PRO:CD	8:H:19:ARG:HG2	2.39	0.49
1:A:956:ARG:HH11	1:A:979:GLY:HA2	1.77	0.49
2:B:77:LYS:CG	2:B:93:ASN:CB	2.75	0.49
2:B:165:LEU:HB3	2:B:166:GLN:OE1	2.13	0.49
2:B:369:ASP:OD2	2:B:591:LYS:NZ	2.45	0.49
5:E:14:ARG:NH1	5:E:141:VAL:O	2.46	0.49
7:G:125:TRP:CZ3	7:G:127:PRO:HG3	2.47	0.49
7:G:226:ASP:OD1	7:G:227:GLY:N	2.46	0.49
15:O:302:VAL:HA	15:O:320:ILE:CD1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:363:ILE:CG2	15:O:374:VAL:HG22	2.42	0.49
15:O:371:LYS:CD	15:O:432:PRO:HG3	2.42	0.49
15:O:434:ARG:HB3	17:Q:144:VAL:HG21	1.94	0.49
15:O:504:THR:O	15:O:542:ARG:HB2	2.13	0.49
16:P:123:MET:HB2	16:P:125:PHE:HD2	1.76	0.49
16:P:450:THR:HG23	16:P:451:PRO:HD3	1.94	0.49
17:Q:29:ARG:NE	17:Q:29:ARG:N	2.60	0.49
17:Q:362:ALA:O	17:Q:364:VAL:HG23	2.12	0.49
17:Q:385:ASN:N	17:Q:385:ASN:ND2	2.60	0.49
1:A:403:LEU:HD23	13:M:166:ARG:NH2	2.26	0.49
1:A:908:VAL:HG12	1:A:912:VAL:CG2	2.41	0.49
2:B:404:LEU:HD21	2:B:551:ILE:HG21	1.94	0.49
3:C:55:ASP:HA	3:C:298:PHE:O	2.12	0.49
3:C:258:ILE:HG12	3:C:265:ALA:HA	1.92	0.49
13:M:163:ASP:O	13:M:166:ARG:HB2	2.13	0.49
15:O:181:ARG:HB2	15:O:245:ILE:HD12	1.95	0.49
15:O:247:ILE:HG12	15:O:261:VAL:HG13	1.94	0.49
15:O:367:SER:O	15:O:368:HIS:CB	2.60	0.49
15:O:420:GLU:CA	15:O:442:LEU:HD11	2.41	0.49
19:S:25:DT:C2'	19:S:26:DT:C6	2.95	0.49
1:A:321:LYS:HD2	1:A:353:ASP:OD1	2.12	0.49
1:A:951:ALA:C	1:A:952:LEU:HD12	2.38	0.49
1:A:982:VAL:HG22	1:A:994:GLU:HB3	1.94	0.49
2:B:185:GLU:O	10:J:63:TYR:OH	2.15	0.49
2:B:201:LYS:NZ	2:B:466:SER:O	2.46	0.49
2:B:492:ASN:OD1	2:B:493:PHE:N	2.45	0.49
2:B:851:TYR:CE1	2:B:879:PRO:HB2	2.46	0.49
3:C:40:PHE:HD2	11:K:134:LYS:HD2	1.76	0.49
3:C:236:LEU:HD11	3:C:290:LYS:HG3	1.95	0.49
5:E:99:HIS:O	5:E:102:GLU:HB3	2.12	0.49
15:O:585:GLU:O	15:O:586:LYS:C	2.54	0.49
16:P:183:LYS:CD	16:P:189:LYS:HD2	2.42	0.49
16:P:284:LEU:CD1	16:P:305:ARG:NH1	2.65	0.49
16:P:284:LEU:HD11	16:P:305:ARG:NH1	2.26	0.49
17:Q:283:ARG:HA	17:Q:302:ARG:HA	1.94	0.49
17:Q:298:GLN:C	17:Q:299:THR:CG2	2.70	0.49
1:A:995:TYR:CE1	2:B:708:ASP:HA	2.47	0.49
1:A:1527:GLN:HA	1:A:1530:TRP:CD2	2.48	0.49
1:A:1610:PHE:HB2	1:A:1639:ALA:HB2	1.94	0.49
2:B:117:VAL:HG21	17:Q:276:GLN:CB	2.43	0.49
2:B:299:ASP:HB3	2:B:302:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:328:GLN:HE22	13:M:108:LEU:HB2	1.78	0.49
5:E:10:SER:O	5:E:14:ARG:HG3	2.12	0.49
8:H:38:LEU:HD11	8:H:123:MET:SD	2.52	0.49
15:O:345:ASP:C	15:O:346:ASN:CG	2.81	0.49
15:O:347:LEU:HD22	17:Q:151:PRO:C	2.38	0.49
15:O:376:ASP:OD1	15:O:378:SER:CA	2.58	0.49
15:O:390:GLN:C	15:O:391:THR:OG1	2.55	0.49
15:O:428:GLU:HA	15:O:435:ARG:CG	2.41	0.49
15:O:434:ARG:N	17:Q:144:VAL:HG21	2.28	0.49
15:O:436:ILE:CG2	17:Q:141:TRP:CZ2	2.96	0.49
15:O:569:VAL:HG11	16:P:477:GLY:C	2.38	0.49
16:P:208:PRO:CA	16:P:213:SER:N	2.75	0.49
16:P:210:TYR:CB	20:T:43:DT:C5'	2.88	0.49
16:P:381:MET:HE1	16:P:385:PHE:CE2	2.47	0.49
17:Q:353:VAL:CG2	17:Q:358:PHE:CZ	2.93	0.49
1:A:117:ARG:CG	1:A:117:ARG:NH1	2.73	0.49
1:A:590:ASN:HB2	1:A:600:MET:HG3	1.95	0.49
2:B:773:VAL:HA	2:B:947:ILE:O	2.12	0.49
13:M:218:VAL:HG21	13:M:259:LEU:HB3	1.93	0.49
13:M:287:LEU:HD13	13:M:290:PRO:HG3	1.95	0.49
14:N:93:THR:C	14:N:97:SER:HG	2.21	0.49
15:O:183:ASP:OD2	15:O:245:ILE:HG22	2.13	0.49
15:O:216:ILE:HB	15:O:234:THR:HG21	1.93	0.49
15:O:578:PHE:HE1	16:P:312:LEU:HA	1.74	0.49
16:P:165:LEU:CD1	16:P:190:MET:HE1	2.42	0.49
16:P:342:THR:C	16:P:343:THR:HG23	2.38	0.49
16:P:352:ILE:HA	16:P:355:VAL:CG2	2.43	0.49
17:Q:173:MET:HG3	17:Q:188:PHE:CZ	2.48	0.49
17:Q:274:MET:HA	17:Q:277:ILE:HG22	1.92	0.49
20:T:17:DC:H2''	20:T:18:DG:C8	2.47	0.49
1:A:1200:MET:HG2	1:A:1573:TYR:CE2	2.47	0.49
1:A:1478:ALA:CB	9:I:21:ASN:CG	2.85	0.49
2:B:795:GLU:HB3	3:C:216:HIS:CE1	2.47	0.49
8:H:111:LEU:HA	8:H:127:GLY:O	2.13	0.49
8:H:118:PHE:HD1	8:H:121:LEU:O	1.96	0.49
13:M:118:ASP:CG	13:M:119:THR:N	2.71	0.49
15:O:270:GLN:HE21	15:O:289:SER:HB2	1.77	0.49
15:O:356:GLU:OE1	15:O:397:LYS:HD2	2.13	0.49
15:O:440:HIS:CG	15:O:479:HIS:CD2	3.01	0.49
15:O:611:ILE:CG2	15:O:731:LEU:CD2	2.89	0.49
15:O:611:ILE:HG23	15:O:731:LEU:CD2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:100:ALA:HB3	16:P:210:TYR:OH	2.13	0.49
16:P:101:LYS:HE3	16:P:154:LEU:HD21	1.94	0.49
16:P:366:TYR:HE2	17:Q:218:ASP:CB	2.25	0.49
17:Q:127:PHE:CE1	17:Q:131:TYR:CZ	2.99	0.49
1:A:949:GLN:NE2	1:A:950:GLN:O	2.34	0.49
2:B:146:ASN:HB3	2:B:149:GLU:CB	2.42	0.49
2:B:186:GLU:OE2	2:B:732:ALA:N	2.31	0.49
2:B:815:ARG:HH21	19:S:26:DT:C5'	2.25	0.49
3:C:115:TRP:HZ3	3:C:211:GLY:HA2	1.78	0.49
3:C:247:PHE:HB2	3:C:285:PHE:CZ	2.48	0.49
13:M:80:LEU:HD12	14:N:52:GLN:O	2.13	0.49
15:O:299:ASP:O	15:O:300:LEU:HD12	2.13	0.49
15:O:302:VAL:HA	15:O:320:ILE:HD11	1.94	0.49
15:O:314:GLN:OE1	15:O:314:GLN:N	2.44	0.49
15:O:366:PHE:CE2	15:O:432:PRO:CA	2.89	0.49
15:O:405:TYR:HE2	15:O:414:ILE:CG2	2.24	0.49
15:O:408:ILE:O	15:O:409:ASP:CB	2.59	0.49
15:O:772:ILE:HD13	16:P:138:LEU:CD2	2.41	0.49
16:P:152:LEU:CD2	16:P:152:LEU:N	2.73	0.49
16:P:330:TRP:HE1	16:P:452:PHE:HD1	1.61	0.49
16:P:355:VAL:HG12	17:Q:215:THR:OG1	2.13	0.49
16:P:419:LEU:HA	17:Q:233:TYR:CE2	2.47	0.49
16:P:505:ILE:HG23	16:P:506:LYS:N	2.27	0.49
17:Q:132:GLU:OE1	17:Q:132:GLU:HA	2.12	0.49
1:A:81:LEU:HB2	1:A:358:ASP:O	2.12	0.48
1:A:361:VAL:CG2	2:B:1184:TYR:HD1	2.24	0.48
1:A:618:TYR:CZ	2:B:783:MET:HB2	2.47	0.48
2:B:186:GLU:C	2:B:188:ASP:H	2.21	0.48
2:B:1162:GLY:C	2:B:1164:GLY:H	2.21	0.48
3:C:239:ILE:HG22	3:C:288:LYS:HD2	1.95	0.48
15:O:214:LEU:HD12	15:O:238:LEU:CD1	2.43	0.48
15:O:247:ILE:N	15:O:248:PRO:CD	2.75	0.48
15:O:399:TRP:NE1	17:Q:134:PRO:HB2	2.27	0.48
15:O:414:ILE:O	15:O:424:VAL:HB	2.12	0.48
15:O:438:TRP:CH2	15:O:481:PHE:CD2	3.01	0.48
15:O:669:PHE:CE1	15:O:738:LYS:CD	2.95	0.48
15:O:714:PHE:CZ	15:O:718:LEU:CD2	2.95	0.48
15:O:727:PRO:HG3	16:P:265:GLU:OE1	2.13	0.48
16:P:147:GLN:O	16:P:151:GLU:HG2	2.13	0.48
16:P:256:LEU:O	16:P:259:GLN:CB	2.60	0.48
17:Q:208:TYR:O	17:Q:211:ARG:HG3	2.06	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:354:LEU:HD12	17:Q:359:MET:C	2.37	0.48
1:A:403:LEU:HA	1:A:406:LEU:HD23	1.92	0.48
2:B:228:SER:O	2:B:254:ASN:N	2.38	0.48
2:B:328:GLN:HE22	13:M:109:ARG:N	2.10	0.48
2:B:479:GLN:HG3	19:S:39:DT:C2	2.43	0.48
2:B:938:PHE:CZ	2:B:1014:TYR:HB2	2.49	0.48
13:M:202:TYR:HB2	13:M:338:HIS:NE2	2.28	0.48
15:O:216:ILE:C	15:O:234:THR:OG1	2.54	0.48
15:O:220:THR:HG1	15:O:228:ASN:C	2.18	0.48
15:O:254:ILE:C	15:O:256:ARG:H	2.21	0.48
15:O:345:ASP:O	15:O:346:ASN:CG	2.56	0.48
15:O:371:LYS:HD2	15:O:432:PRO:HG3	1.95	0.48
15:O:704:LEU:HD23	16:P:179:CYS:SG	2.54	0.48
16:P:104:PHE:CE1	16:P:215:LEU:CD1	2.96	0.48
16:P:260:CYS:SG	16:P:261:ALA:N	2.85	0.48
16:P:282:ARG:HH11	16:P:282:ARG:HG3	1.78	0.48
17:Q:346:ILE:O	17:Q:349:ILE:HD11	2.13	0.48
20:T:17:DC:H2"	20:T:18:DG:H8	1.77	0.48
1:A:58:LEU:O	1:A:59:ARG:HB2	2.13	0.48
1:A:461:GLU:HA	1:A:465:GLY:HA2	1.95	0.48
1:A:502:ALA:O	1:A:580:HIS:HB3	2.13	0.48
1:A:1477:ALA:O	1:A:1480:THR:OG1	2.24	0.48
2:B:22:GLU:OE2	10:J:58:GLU:HG3	2.13	0.48
2:B:74:PHE:CD1	2:B:92:GLY:O	2.65	0.48
2:B:110:ASN:HB2	2:B:116:ALA:HB3	1.95	0.48
2:B:866:LEU:HD12	2:B:870:LYS:HD2	1.94	0.48
3:C:172:GLN:N	3:C:175:GLN:HE21	2.11	0.48
5:E:48:ASP:OD1	5:E:51:GLY:N	2.45	0.48
7:G:37:CYS:O	7:G:126:GLN:N	2.24	0.48
15:O:19:UNK:CB	17:Q:255:VAL:HG21	2.40	0.48
15:O:390:GLN:CB	17:Q:151:PRO:HG2	2.40	0.48
15:O:393:VAL:C	15:O:394:VAL:HG13	2.38	0.48
15:O:573:GLU:HB3	16:P:495:LYS:NZ	2.27	0.48
15:O:577:LEU:CD1	16:P:502:ILE:HG21	2.22	0.48
16:P:118:TRP:CE3	16:P:122:GLU:HB2	2.48	0.48
16:P:341:ARG:HH11	16:P:341:ARG:CB	2.26	0.48
16:P:378:LEU:HD11	17:Q:234:LYS:O	2.02	0.48
16:P:378:LEU:O	16:P:378:LEU:HD23	2.13	0.48
17:Q:280:SER:OG	17:Q:301:SER:N	2.46	0.48
18:R:1:A:H2	20:T:22:DG:N2	2.11	0.48
19:S:1:DC:H41	20:T:53:DT:H3	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:LEU:C	1:A:406:LEU:HG	2.39	0.48
1:A:520:ARG:HG2	1:A:561:LEU:HD12	1.95	0.48
2:B:12:ARG:N	2:B:977:ILE:HD13	2.29	0.48
2:B:336:VAL:HG21	13:M:124:LEU:HA	1.94	0.48
2:B:412:ILE:O	2:B:416:LYS:HG2	2.13	0.48
2:B:1167:PHE:CG	2:B:1168:VAL:N	2.75	0.48
7:G:168:PHE:HD1	7:G:217:TRP:CD1	2.31	0.48
8:H:93:TYR:HD1	8:H:145:ARG:HB2	1.79	0.48
13:M:55:GLY:HA3	13:M:62:TYR:CE2	2.48	0.48
15:O:66:UNK:O	15:O:67:UNK:C	2.61	0.48
15:O:215:ASN:CA	15:O:236:ILE:HG12	2.42	0.48
15:O:264:ILE:CG2	15:O:265:THR:N	2.77	0.48
15:O:299:ASP:OD1	15:O:300:LEU:N	2.46	0.48
15:O:365:TRP:CE2	15:O:407:ARG:NE	2.81	0.48
15:O:498:LEU:HD23	15:O:499:GLU:N	2.28	0.48
15:O:616:SER:HB2	15:O:621:LYS:N	2.28	0.48
16:P:172:LEU:C	16:P:172:LEU:CD2	2.85	0.48
16:P:188:ALA:HB1	16:P:193:PHE:CZ	2.48	0.48
16:P:356:VAL:HG23	17:Q:211:ARG:HE	1.78	0.48
19:S:28:DT:H4'	19:S:29:DT:C4'	2.43	0.48
20:T:18:DG:C6	20:T:19:DC:N4	2.81	0.48
1:A:637:PHE:C	2:B:1091:ARG:HH22	2.22	0.48
1:A:1023:LEU:HD23	1:A:1226:VAL:HG11	1.95	0.48
2:B:167:SER:C	2:B:169:ARG:H	2.21	0.48
2:B:359:LEU:O	2:B:370:LYS:HE2	2.13	0.48
3:C:303:GLU:OE2	10:J:43:ARG:NH2	2.46	0.48
13:M:52:VAL:HG22	13:M:65:TYR:HB2	1.94	0.48
15:O:56:UNK:HA	15:O:551:ALA:O	2.14	0.48
15:O:193:LEU:O	15:O:194:ARG:C	2.57	0.48
15:O:205:TYR:O	15:O:214:LEU:HA	2.14	0.48
15:O:351:ILE:CG1	17:Q:162:PHE:CE1	2.93	0.48
16:P:116:ILE:HA	16:P:119:LEU:CG	2.43	0.48
16:P:137:TRP:CD1	16:P:141:LEU:CD1	2.96	0.48
16:P:155:GLN:O	20:T:45:DC:P	2.69	0.48
16:P:337:SER:OG	16:P:448:LYS:HE3	2.13	0.48
16:P:378:LEU:HD23	16:P:378:LEU:C	2.39	0.48
16:P:399:SER:OG	16:P:402:MET:CB	2.62	0.48
17:Q:153:ASN:N	17:Q:153:ASN:ND2	2.60	0.48
17:Q:177:LEU:O	17:Q:185:LYS:HE2	2.14	0.48
17:Q:294:VAL:HG23	17:Q:295:PRO:N	2.24	0.48
19:S:9:DA:C6	19:S:10:DG:C6	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:26:ASN:OD1	2:B:1134:ARG:NH1	2.47	0.48
2:B:783:MET:HA	2:B:950:ASN:HD22	1.79	0.48
2:B:829:ASN:O	2:B:831:GLU:N	2.45	0.48
2:B:919:SER:C	2:B:921:HIS:H	2.21	0.48
5:E:82:PHE:HD1	5:E:111:VAL:HB	1.79	0.48
6:F:107:VAL:HG12	6:F:109:VAL:H	1.77	0.48
7:G:97:LYS:N	7:G:97:LYS:NZ	2.60	0.48
8:H:11:GLN:HB2	8:H:31:THR:HG22	1.94	0.48
11:K:74:ASN:HA	11:K:77:ARG:HG2	1.96	0.48
15:O:310:TRP:CA	15:O:368:HIS:NE2	2.73	0.48
15:O:506:THR:HG21	15:O:540:LYS:HG2	1.95	0.48
15:O:508:ILE:HG12	15:O:539:VAL:CG1	2.36	0.48
15:O:700:LEU:HD11	15:O:711:LEU:CA	2.34	0.48
15:O:704:LEU:HB3	16:P:255:LYS:NZ	2.29	0.48
15:O:725:VAL:HB	16:P:450:THR:CA	2.43	0.48
16:P:104:PHE:CE1	16:P:211:TYR:CB	2.82	0.48
16:P:200:PRO:HB2	16:P:203:TRP:CA	2.43	0.48
16:P:200:PRO:HB2	16:P:204:ARG:H	1.78	0.48
16:P:260:CYS:C	16:P:262:LEU:H	2.20	0.48
16:P:490:ASP:CB	16:P:491:PHE:CE1	2.89	0.48
17:Q:140:ILE:HG22	17:Q:142:ARG:HD2	1.95	0.48
19:S:16:DG:N2	20:T:40:DT:C2	2.82	0.48
1:A:402:ASP:O	1:A:405:LYS:HB3	2.14	0.48
1:A:1325:LEU:HB2	1:A:1492:ILE:HG21	1.95	0.48
2:B:372:ARG:NH2	2:B:574:SER:HB3	2.29	0.48
2:B:480:GLN:OE1	2:B:480:GLN:N	2.46	0.48
2:B:675:ALA:HB2	2:B:686:HIS:CG	2.49	0.48
2:B:729:PRO:HG2	2:B:733:LEU:HD11	1.96	0.48
7:G:131:ASP:O	7:G:233:VAL:N	2.41	0.48
9:I:7:LEU:HB3	9:I:16:LEU:HD11	1.96	0.48
15:O:314:GLN:HB3	15:O:329:ILE:N	2.21	0.48
15:O:344:ILE:HD12	15:O:346:ASN:CA	2.44	0.48
15:O:395:GLN:NE2	15:O:397:LYS:CA	2.77	0.48
15:O:472:ARG:CD	17:Q:200:THR:HG21	2.38	0.48
15:O:655:SER:OG	16:P:244:ASN:N	2.47	0.48
15:O:657:SER:OG	15:O:745:ALA:O	2.27	0.48
16:P:101:LYS:HZ3	16:P:152:LEU:HD13	0.65	0.48
16:P:237:ILE:HG22	16:P:239:PHE:CA	2.44	0.48
17:Q:8:LEU:H	17:Q:8:LEU:HD22	1.79	0.48
17:Q:173:MET:HE2	17:Q:173:MET:CA	2.40	0.48
17:Q:266:SER:OG	17:Q:268:LEU:CB	2.58	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:424:PHE:CD2	17:Q:424:PHE:N	2.80	0.48
2:B:95:LEU:HB2	2:B:440:PHE:CD2	2.49	0.48
2:B:555:GLN:HB2	2:B:645:GLY:HA2	1.96	0.48
2:B:614:GLU:OE2	2:B:616:LYS:HE3	2.14	0.48
2:B:1121:GLY:CA	7:G:239:THR:OG1	2.62	0.48
9:I:43:SER:C	9:I:45:LEU:N	2.69	0.48
15:O:202:ILE:CG2	15:O:216:ILE:CG2	2.91	0.48
15:O:364:GLU:OE2	15:O:365:TRP:CZ3	2.66	0.48
15:O:604:ILE:HG23	15:O:732:LEU:HD22	1.96	0.48
15:O:703:PHE:O	15:O:704:LEU:HB3	2.14	0.48
16:P:144:ILE:CA	16:P:147:GLN:NE2	2.77	0.48
16:P:301:HIS:ND1	16:P:304:LEU:HD22	2.29	0.48
17:Q:356:PRO:N	17:Q:359:MET:HB2	2.29	0.48
1:A:523:VAL:HG21	1:A:561:LEU:HD11	1.95	0.48
2:B:460:LYS:O	2:B:464:PHE:HD2	1.97	0.48
2:B:600:GLN:O	2:B:604:ILE:HG13	2.14	0.48
3:C:120:LEU:HD13	3:C:124:GLU:CB	2.39	0.48
7:G:62:MET:HG2	7:G:66:LEU:HD12	1.95	0.48
7:G:237:HIS:O	7:G:244:SER:CA	2.62	0.48
13:M:28:LYS:NZ	14:N:104:LEU:HD12	2.29	0.48
13:M:55:GLY:O	13:M:61:GLU:HG3	2.13	0.48
14:N:56:ILE:HA	14:N:137:PHE:O	2.13	0.48
14:N:82:ILE:O	14:N:85:HIS:HB2	2.13	0.48
15:O:354:PRO:HG2	15:O:355:GLU:H	1.79	0.48
15:O:359:SER:O	15:O:360:TRP:O	2.31	0.48
15:O:382:GLU:OE1	15:O:433:VAL:HA	2.14	0.48
15:O:383:ILE:HA	15:O:390:GLN:HG3	1.95	0.48
15:O:436:ILE:CG1	17:Q:141:TRP:HZ3	2.25	0.48
15:O:483:HIS:HE1	15:O:487:ASN:HA	1.78	0.48
16:P:208:PRO:C	16:P:213:SER:H	2.21	0.48
16:P:233:THR:HG22	16:P:237:ILE:HD12	1.96	0.48
16:P:234:CYS:C	16:P:289:ARG:CB	2.87	0.48
16:P:366:TYR:CZ	17:Q:214:VAL:O	2.60	0.48
17:Q:29:ARG:CZ	17:Q:29:ARG:CB	2.91	0.48
17:Q:158:THR:O	17:Q:158:THR:HG23	2.14	0.48
17:Q:355:THR:N	17:Q:356:PRO:CD	2.77	0.48
17:Q:393:ILE:HG13	17:Q:400:LYS:HZ2	1.78	0.48
1:A:440:SER:N	1:A:458:GLN:HE22	2.12	0.48
2:B:129:ARG:HD3	2:B:890:ASP:OD2	2.13	0.48
2:B:709:PHE:HE2	2:B:992:PRO:HG3	1.79	0.48
13:M:204:ILE:HG13	13:M:208:ILE:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:312:LEU:O	15:O:312:LEU:CD1	2.55	0.48
15:O:318:ILE:HG23	15:O:340:LYS:HZ3	1.78	0.48
15:O:370:GLN:O	15:O:385:PHE:CE1	2.67	0.48
15:O:388:ASN:O	17:Q:148:ASN:ND2	2.47	0.48
15:O:436:ILE:CB	17:Q:141:TRP:HZ3	2.18	0.48
15:O:455:LYS:HA	15:O:464:LEU:HD23	1.95	0.48
15:O:568:ILE:HG21	15:O:570:ASP:CB	2.33	0.48
15:O:775:TRP:CZ3	16:P:134:LYS:HE2	2.48	0.48
16:P:104:PHE:CE2	16:P:155:GLN:NE2	2.70	0.48
16:P:105:LEU:HD21	16:P:109:GLN:NE2	2.26	0.48
16:P:166:TYR:CD2	16:P:167:LEU:HD12	2.34	0.48
16:P:193:PHE:HB2	17:Q:208:TYR:CE2	2.47	0.48
16:P:219:ILE:HD13	17:Q:207:ASN:OD1	2.13	0.48
16:P:402:MET:O	16:P:406:GLN:CG	2.62	0.48
16:P:484:ALA:O	16:P:488:LEU:CB	2.62	0.48
17:Q:274:MET:CA	17:Q:277:ILE:HG22	2.44	0.48
17:Q:283:ARG:CA	17:Q:302:ARG:CA	2.83	0.48
20:T:19:DC:C4	20:T:20:DA:C6	3.02	0.48
1:A:509:GLU:O	1:A:576:LYS:HA	2.14	0.47
2:B:136:LYS:HD2	2:B:138:LEU:HD11	1.94	0.47
4:D:85:SER:HB3	7:G:71:MET:CG	2.44	0.47
5:E:14:ARG:NH2	5:E:141:VAL:HG13	2.29	0.47
13:M:198:VAL:HG11	13:M:397:MET:O	2.14	0.47
15:O:233:VAL:CG1	15:O:234:THR:N	2.76	0.47
15:O:273:ARG:HH12	15:O:274:ILE:CG2	2.12	0.47
15:O:318:ILE:HD12	15:O:318:ILE:C	2.39	0.47
15:O:573:GLU:HG3	16:P:495:LYS:NZ	2.28	0.47
15:O:658:LYS:O	15:O:659:LEU:HD12	2.04	0.47
16:P:129:PHE:C	16:P:129:PHE:CD1	2.91	0.47
16:P:315:ASN:O	16:P:315:ASN:OD1	2.31	0.47
1:A:789:SER:HB2	1:A:792:GLY:HA3	1.95	0.47
3:C:257:GLY:N	3:C:266:TYR:O	2.45	0.47
13:M:26:PHE:H	14:N:106:ASN:HB3	1.79	0.47
13:M:268:LEU:HD12	13:M:335:ILE:CD1	2.44	0.47
15:O:314:GLN:CG	15:O:328:ARG:C	2.15	0.47
15:O:364:GLU:HG3	15:O:365:TRP:N	2.29	0.47
15:O:604:ILE:HA	15:O:732:LEU:HD21	1.90	0.47
16:P:103:LEU:HD22	16:P:203:TRP:HZ3	1.72	0.47
16:P:169:SER:OG	16:P:175:PRO:HD3	2.13	0.47
16:P:284:LEU:HD22	16:P:285:THR:O	2.14	0.47
16:P:354:LYS:CB	16:P:362:THR:HB	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:399:SER:C	16:P:407:LYS:HE2	2.40	0.47
2:B:129:ARG:HG2	2:B:131:THR:HG23	1.96	0.47
2:B:129:ARG:HD2	2:B:891:GLU:HG3	1.96	0.47
2:B:221:SER:O	2:B:224:ASN:N	2.48	0.47
2:B:577:PHE:CG	2:B:577:PHE:O	2.67	0.47
2:B:909:ARG:HD2	2:B:1039:MET:SD	2.54	0.47
7:G:133:LEU:HB2	7:G:231:PHE:CE1	2.49	0.47
8:H:9:ILE:HA	8:H:56:THR:HA	1.96	0.47
13:M:305:ILE:O	13:M:307:PRO:HD3	2.14	0.47
14:N:110:LEU:HB3	14:N:119:LEU:HB3	1.95	0.47
15:O:189:THR:O	15:O:192:ASP:N	2.46	0.47
15:O:253:SER:C	15:O:254:ILE:HG13	2.39	0.47
15:O:391:THR:HG22	15:O:393:VAL:H	1.78	0.47
15:O:442:LEU:HD12	15:O:442:LEU:O	2.14	0.47
15:O:469:TYR:CD2	15:O:508:ILE:HD12	2.49	0.47
15:O:475:ARG:HA	15:O:498:LEU:HA	1.97	0.47
15:O:611:ILE:CD1	15:O:731:LEU:CG	2.93	0.47
16:P:94:LYS:HA	16:P:207:LEU:HB3	1.93	0.47
16:P:118:TRP:CH2	16:P:122:GLU:HG3	2.49	0.47
16:P:341:ARG:NH1	16:P:341:ARG:CB	2.77	0.47
19:S:39:DT:H2'	19:S:40:DT:OP1	2.14	0.47
1:A:464:GLU:HB2	1:A:469:LYS:N	2.29	0.47
1:A:505:LEU:HD23	2:B:1048:SER:OG	2.14	0.47
1:A:729:LYS:HE2	8:H:120:GLY:HA3	1.95	0.47
2:B:650:LEU:HB3	2:B:663:ILE:CG2	2.45	0.47
2:B:756:LEU:HA	2:B:759:ASP:HB2	1.96	0.47
13:M:45:LYS:NZ	13:M:50:GLU:CG	2.73	0.47
13:M:337:MET:CG	13:M:342:PHE:HA	2.43	0.47
15:O:172:PHE:CD1	15:O:172:PHE:O	2.68	0.47
15:O:298:ASP:CG	17:Q:157:MET:O	2.57	0.47
15:O:356:GLU:C	15:O:377:ARG:HH21	2.22	0.47
15:O:421:ILE:HG23	15:O:439:LYS:HG2	1.94	0.47
15:O:568:ILE:HG23	15:O:570:ASP:CG	2.39	0.47
16:P:171:HIS:CE1	16:P:243:PHE:CE1	3.03	0.47
16:P:201:LYS:CG	16:P:202:SER:N	2.77	0.47
16:P:211:TYR:O	16:P:214:ILE:HG22	2.14	0.47
16:P:366:TYR:CZ	17:Q:215:THR:CA	2.86	0.47
17:Q:296:PRO:CA	17:Q:304:HIS:HE1	2.27	0.47
1:A:94:LEU:HD22	1:A:356:PHE:HE1	1.78	0.47
1:A:501:PHE:HZ	2:B:1044:PHE:HB2	1.80	0.47
2:B:420:TYR:HB2	2:B:457:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:950:ASN:OD1	2:B:952:HIS:N	2.38	0.47
3:C:293:ARG:HH11	3:C:293:ARG:HG3	1.79	0.47
15:O:216:ILE:H	15:O:234:THR:HG1	1.51	0.47
15:O:350:THR:CG2	17:Q:156:LYS:HB2	2.44	0.47
15:O:382:GLU:HG2	15:O:383:ILE:N	2.30	0.47
15:O:389:TRP:HH2	17:Q:147:GLN:C	2.21	0.47
15:O:391:THR:CG2	15:O:392:GLU:N	2.78	0.47
15:O:702:LEU:HD13	16:P:174:LEU:CA	2.44	0.47
15:O:753:PHE:CE1	16:P:131:HIS:HB2	2.50	0.47
16:P:129:PHE:HD1	16:P:129:PHE:C	2.22	0.47
16:P:155:GLN:N	20:T:45:DC:OP1	2.47	0.47
16:P:163:SER:O	16:P:167:LEU:HD13	2.14	0.47
16:P:183:LYS:NZ	16:P:183:LYS:CB	2.77	0.47
17:Q:147:GLN:CD	17:Q:147:GLN:H	2.20	0.47
17:Q:248:LYS:N	17:Q:298:GLN:CD	2.70	0.47
1:A:339:PHE:O	1:A:1629:ASN:ND2	2.48	0.47
1:A:588:LEU:HD21	1:A:600:MET:HE2	1.95	0.47
1:A:1221:ARG:O	1:A:1225:ILE:HG13	2.15	0.47
1:A:1268:ASP:HB3	1:A:1295:ARG:O	2.15	0.47
2:B:403:LEU:HD21	2:B:408:LEU:HD13	1.97	0.47
5:E:96:PHE:CZ	5:E:100:ILE:HD11	2.50	0.47
8:H:112:ILE:HG22	8:H:131:ASN:HD22	1.79	0.47
9:I:26:SER:O	9:I:38:PRO:CG	2.63	0.47
12:L:28:LYS:HB2	12:L:59:ALA:HB3	1.95	0.47
15:O:254:ILE:CG2	15:O:255:GLY:N	2.78	0.47
15:O:302:VAL:HA	15:O:320:ILE:HG12	1.92	0.47
15:O:318:ILE:HD13	15:O:320:ILE:CD1	2.44	0.47
15:O:458:LYS:HD2	15:O:463:LEU:HD21	1.97	0.47
15:O:461:HIS:CG	15:O:484:ARG:HG2	2.50	0.47
15:O:569:VAL:HG11	16:P:477:GLY:CA	2.44	0.47
15:O:573:GLU:C	16:P:499:LYS:HE3	2.40	0.47
15:O:725:VAL:CG2	16:P:450:THR:HA	2.43	0.47
16:P:103:LEU:CD2	16:P:203:TRP:HZ3	2.28	0.47
16:P:211:TYR:CE1	16:P:212:VAL:CG2	2.90	0.47
17:Q:147:GLN:N	17:Q:147:GLN:CD	2.73	0.47
1:A:117:ARG:CZ	1:A:121:LYS:HE3	2.45	0.47
1:A:185:ARG:O	1:A:189:VAL:HG23	2.13	0.47
1:A:326:THR:HG23	1:A:329:ARG:NH2	2.30	0.47
1:A:332:GLN:HE22	1:A:350:VAL:N	2.13	0.47
1:A:464:GLU:N	1:A:464:GLU:CD	2.73	0.47
1:A:469:LYS:HE3	1:A:470:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:GLY:H	1:A:580:HIS:HD2	1.62	0.47
1:A:785:GLN:N	1:A:789:SER:CB	2.63	0.47
1:A:951:ALA:O	1:A:952:LEU:HD12	2.14	0.47
1:A:1034:TYR:HA	1:A:1181:PRO:HB3	1.97	0.47
1:A:1229:ALA:CB	1:A:1597:ALA:HB2	2.45	0.47
1:A:1463:ASP:HB2	1:A:1469:TRP:NE1	2.30	0.47
1:A:1661:PRO:HA	7:G:102:GLU:HG2	1.96	0.47
2:B:362:LEU:HD21	2:B:590:GLY:O	2.14	0.47
2:B:861:TYR:CZ	2:B:870:LYS:HB2	2.50	0.47
2:B:937:PRO:HB2	2:B:1013:MET:HE2	1.96	0.47
3:C:272:LYS:HA	14:N:175:TYR:HE2	1.75	0.47
4:D:99:LEU:HD12	4:D:100:PRO:HD2	1.95	0.47
6:F:89:GLU:OE2	6:F:136:ARG:NE	2.46	0.47
7:G:17:ILE:HG13	7:G:18:LYS:N	2.30	0.47
9:I:27:ASN:HB3	9:I:39:LYS:HB3	1.95	0.47
10:J:10:CYS:HB2	10:J:43:ARG:HH21	1.79	0.47
11:K:63:PHE:O	11:K:102:ASN:HA	2.14	0.47
13:M:114:LYS:HD2	13:M:114:LYS:HA	1.57	0.47
13:M:170:LYS:C	13:M:172:LEU:N	2.66	0.47
14:N:45:LYS:HB2	14:N:48:ALA:HB3	1.97	0.47
15:O:328:ARG:O	15:O:340:LYS:CA	2.50	0.47
15:O:338:LYS:O	15:O:339:ARG:HB2	2.14	0.47
15:O:378:SER:O	15:O:397:LYS:HG2	2.15	0.47
15:O:382:GLU:CD	15:O:433:VAL:HA	2.40	0.47
15:O:382:GLU:CD	15:O:433:VAL:HG12	2.40	0.47
15:O:436:ILE:HG21	17:Q:141:TRP:CZ2	2.45	0.47
15:O:489:PHE:C	15:O:490:GLN:HG2	2.39	0.47
15:O:568:ILE:C	15:O:570:ASP:H	2.22	0.47
15:O:669:PHE:CD1	15:O:738:LYS:NZ	2.82	0.47
15:O:709:PRO:O	15:O:710:GLY:C	2.57	0.47
16:P:150:GLU:O	16:P:150:GLU:HG2	2.14	0.47
16:P:152:LEU:HD22	16:P:152:LEU:H	1.77	0.47
16:P:165:LEU:C	16:P:165:LEU:CD2	2.85	0.47
16:P:282:ARG:HH11	16:P:282:ARG:CG	2.28	0.47
16:P:303:GLU:O	16:P:304:LEU:C	2.58	0.47
16:P:332:LEU:C	16:P:332:LEU:CD1	2.87	0.47
17:Q:282:SER:CA	17:Q:301:SER:O	2.62	0.47
17:Q:397:ARG:NH1	17:Q:398:ASP:C	2.73	0.47
1:A:845:ASP:HA	1:A:848:LYS:HD2	1.96	0.47
1:A:1312:GLU:O	1:A:1316:VAL:HG12	2.15	0.47
6:F:110:ASP:HB3	6:F:123:LYS:HZ3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:157:ILE:HG12	7:G:247:GLY:C	2.39	0.47
12:L:68:GLU:C	12:L:70:ARG:H	2.23	0.47
14:N:167:LYS:NZ	14:N:169:GLU:OE2	2.33	0.47
15:O:368:HIS:C	15:O:370:GLN:H	2.23	0.47
15:O:369:PHE:CE1	15:O:431:ASP:CB	2.97	0.47
15:O:658:LYS:C	15:O:659:LEU:CG	2.79	0.47
15:O:760:ILE:CG2	16:P:138:LEU:HD13	2.44	0.47
17:Q:381:ARG:HA	17:Q:384:VAL:HG21	0.52	0.47
1:A:500:VAL:HG13	1:A:501:PHE:N	2.30	0.47
1:A:1026:GLN:HG3	1:A:1598:PHE:CD1	2.45	0.47
2:B:572:PRO:CB	2:B:575:HIS:HD2	2.27	0.47
2:B:626:ILE:HA	2:B:642:LEU:HD23	1.96	0.47
5:E:7:ARG:HG2	5:E:11:ARG:NE	2.30	0.47
8:H:39:THR:O	8:H:123:MET:HA	2.14	0.47
13:M:337:MET:HG2	13:M:342:PHE:HA	1.96	0.47
15:O:475:ARG:HE	15:O:496:THR:CG2	2.27	0.47
15:O:570:ASP:O	15:O:571:HIS:C	2.57	0.47
15:O:640:SER:O	15:O:644:THR:OG1	2.30	0.47
15:O:641:TRP:CD1	15:O:653:SER:CA	2.92	0.47
15:O:641:TRP:HA	15:O:644:THR:OG1	2.14	0.47
15:O:771:ILE:HG22	16:P:109:GLN:OE1	1.92	0.47
16:P:237:ILE:CG2	16:P:239:PHE:HB2	2.45	0.47
16:P:505:ILE:HD12	16:P:508:ALA:HB3	1.97	0.47
1:A:222:GLU:OE2	1:A:226:LYS:HE2	2.15	0.47
1:A:360:LEU:HD11	2:B:1184:TYR:OH	2.15	0.47
1:A:722:PRO:CB	8:H:46:LEU:HB3	2.45	0.47
1:A:728:GLY:HA2	1:A:731:ILE:HD12	1.97	0.47
1:A:1097:TYR:CZ	1:A:1101:THR:HG21	2.50	0.47
1:A:1483:LEU:HD11	1:A:1485:MET:HE2	1.97	0.47
2:B:128:GLN:HE21	2:B:735:HIS:HA	1.79	0.47
2:B:178:TYR:O	2:B:182:GLN:HG2	2.15	0.47
2:B:492:ASN:ND2	2:B:494:TYR:HB2	2.30	0.47
2:B:495:ARG:NH1	2:B:723:LYS:HE2	2.30	0.47
2:B:917:PHE:CE1	2:B:1035:ARG:HG3	2.50	0.47
7:G:73:TYR:HA	7:G:79:GLY:O	2.15	0.47
7:G:147:LEU:HD11	7:G:229:LEU:HD23	1.97	0.47
13:M:45:LYS:N	13:M:48:LYS:O	2.46	0.47
15:O:188:GLN:O	15:O:196:TYR:HE1	1.98	0.47
15:O:201:GLU:O	15:O:219:LEU:N	2.35	0.47
15:O:263:ILE:CG2	15:O:264:ILE:N	2.78	0.47
15:O:269:PHE:CE2	15:O:292:LEU:HD11	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:356:GLU:OE1	15:O:356:GLU:N	2.48	0.47
15:O:366:PHE:CD1	15:O:373:LEU:HD11	2.50	0.47
15:O:442:LEU:O	15:O:443:ASP:OD1	2.32	0.47
15:O:573:GLU:CB	16:P:495:LYS:NZ	2.78	0.47
15:O:735:GLU:HA	15:O:738:LYS:HD2	1.95	0.47
16:P:111:ILE:HG23	16:P:112:LEU:N	2.29	0.47
16:P:155:GLN:HG2	20:T:44:DC:O3'	2.15	0.47
16:P:281:ILE:CD1	16:P:281:ILE:N	2.73	0.47
16:P:334:LEU:HD23	16:P:449:GLN:OE1	2.14	0.47
19:S:2:DA:H2'	19:S:3:DA:C8	2.50	0.47
19:S:49:DA:N1	20:T:6:DT:C4	2.83	0.47
1:A:1463:ASP:HB2	1:A:1469:TRP:CD1	2.50	0.46
2:B:847:TYR:O	2:B:850:THR:OG1	2.30	0.46
3:C:89:THR:HG1	3:C:201:GLU:H	1.62	0.46
5:E:16:PHE:O	5:E:20:LYS:HG3	2.15	0.46
7:G:29:ASP:C	7:G:31:LYS:H	2.23	0.46
13:M:189:PRO:HG3	13:M:331:TYR:CD1	2.49	0.46
13:M:209:PRO:HG3	13:M:301:ARG:NH2	2.30	0.46
15:O:55:UNK:O	15:O:552:LEU:HD22	2.15	0.46
15:O:217:ALA:HB3	15:O:229:ARG:HH11	1.76	0.46
15:O:302:VAL:O	15:O:303:VAL:CB	2.64	0.46
15:O:303:VAL:HB	15:O:319:ASP:O	2.15	0.46
15:O:366:PHE:CG	15:O:373:LEU:HD11	2.50	0.46
15:O:511:ILE:HD13	15:O:536:ASP:OD1	2.15	0.46
16:P:158:MET:CG	16:P:192:TYR:OH	2.63	0.46
16:P:210:TYR:HB3	20:T:43:DT:C5'	2.46	0.46
16:P:262:LEU:HD23	16:P:446:TYR:CE2	2.50	0.46
16:P:330:TRP:CZ3	16:P:331:ILE:HD13	2.50	0.46
16:P:337:SER:CA	16:P:448:LYS:CE	2.91	0.46
16:P:382:GLU:CD	16:P:382:GLU:C	2.83	0.46
16:P:386:LEU:CB	16:P:387:PRO:HD3	2.45	0.46
17:Q:247:ILE:O	17:Q:248:LYS:C	2.56	0.46
17:Q:277:ILE:C	17:Q:278:TYR:HD1	2.22	0.46
17:Q:394:GLY:O	17:Q:395:LEU:C	2.58	0.46
1:A:319:GLU:OE2	13:M:161:ILE:HD11	2.15	0.46
1:A:611:GLU:HG3	1:A:613:THR:H	1.80	0.46
1:A:1090:ASP:O	1:A:1132:TYR:HA	2.15	0.46
2:B:240:ARG:HB2	2:B:242:ASP:OD1	2.15	0.46
2:B:1126:VAL:HB	2:B:1166:LYS:HE3	1.96	0.46
3:C:55:ASP:OD1	3:C:299:ILE:HA	2.15	0.46
15:O:294:PHE:HB3	15:O:300:LEU:HD13	1.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:319:ASP:HA	15:O:324:TRP:HB3	1.97	0.46
15:O:356:GLU:O	15:O:357:LEU:HB2	2.16	0.46
15:O:391:THR:HG22	15:O:393:VAL:HG13	1.97	0.46
15:O:478:MET:CE	15:O:497:VAL:HG13	2.46	0.46
15:O:574:TRP:CZ3	16:P:484:ALA:CB	2.98	0.46
15:O:685:TYR:CG	15:O:689:GLN:OE1	2.68	0.46
1:A:406:LEU:HD23	1:A:416:ARG:HD2	1.95	0.46
1:A:422:ARG:O	1:A:426:ALA:CB	2.63	0.46
1:A:862:THR:HG21	1:A:875:LEU:HD12	1.97	0.46
1:A:872:ASP:HB3	1:A:875:LEU:HB3	1.96	0.46
1:A:1095:LEU:O	1:A:1098:SER:HB2	2.15	0.46
1:A:1305:GLU:OE1	9:I:63:LYS:NZ	2.31	0.46
2:B:65:VAL:HG11	2:B:102:VAL:HG21	1.96	0.46
2:B:328:GLN:NE2	13:M:108:LEU:HB2	2.31	0.46
2:B:331:GLY:O	2:B:335:ARG:HB2	2.15	0.46
2:B:529:CYS:HB2	2:B:698:SER:HB3	1.97	0.46
3:C:169:PHE:CE2	3:C:171:PRO:HB3	2.50	0.46
7:G:159:LYS:HA	7:G:162:ILE:HD12	1.97	0.46
7:G:235:ASN:O	7:G:246:ASP:N	2.49	0.46
13:M:79:GLY:HA3	13:M:90:LEU:HD23	1.96	0.46
13:M:271:VAL:HG21	13:M:298:ILE:HG21	1.97	0.46
13:M:274:ASN:OD1	13:M:286:ARG:HG3	2.16	0.46
15:O:270:GLN:OE1	15:O:291:PRO:CB	2.63	0.46
15:O:352:PHE:HB2	15:O:355:GLU:HB3	1.95	0.46
15:O:610:LEU:HG	15:O:614:GLU:CD	2.41	0.46
15:O:615:ASN:OD1	15:O:617:HIS:NE2	2.49	0.46
16:P:213:SER:C	16:P:215:LEU:H	2.23	0.46
16:P:246:GLU:HB3	16:P:286:LEU:HB3	1.97	0.46
16:P:337:SER:OG	16:P:448:LYS:HD3	2.15	0.46
17:Q:246:GLN:N	17:Q:246:GLN:CD	2.73	0.46
17:Q:354:LEU:C	17:Q:354:LEU:HD23	2.39	0.46
1:A:406:LEU:HD12	1:A:406:LEU:C	2.34	0.46
1:A:464:GLU:CD	1:A:464:GLU:H	2.24	0.46
1:A:1478:ALA:HB1	9:I:21:ASN:ND2	2.30	0.46
1:A:1637:PRO:O	1:A:1641:ILE:HG13	2.15	0.46
2:B:35:PHE:N	2:B:36:PRO:HD3	2.30	0.46
3:C:36:PHE:CZ	3:C:40:PHE:HB2	2.50	0.46
3:C:222:VAL:HG21	3:C:225:ALA:HB2	1.96	0.46
10:J:23:ASN:O	10:J:27:GLU:N	2.46	0.46
11:K:53:ALA:HB1	11:K:104:ARG:NH1	2.30	0.46
15:O:44:UNK:O	15:O:45:UNK:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:302:VAL:O	15:O:319:ASP:O	2.33	0.46
15:O:428:GLU:CG	15:O:433:VAL:CG2	2.93	0.46
16:P:104:PHE:HA	16:P:211:TYR:HD1	1.77	0.46
16:P:156:LEU:H	16:P:156:LEU:HD13	1.81	0.46
16:P:409:ALA:O	16:P:413:LEU:HG	2.16	0.46
1:A:413:LEU:C	1:A:415:ASP:H	2.23	0.46
1:A:669:LEU:N	1:A:787:GLY:CA	2.70	0.46
1:A:1229:ALA:HB1	1:A:1595:TYR:CE2	2.50	0.46
1:A:1478:ALA:CB	9:I:21:ASN:OD1	2.63	0.46
1:A:1654:PHE:HA	6:F:137:TYR:HD2	1.81	0.46
2:B:90:TYR:O	2:B:91:LEU:C	2.59	0.46
2:B:155:VAL:HB	17:Q:359:MET:CE	2.45	0.46
2:B:375:LEU:HA	2:B:378:ILE:HD12	1.96	0.46
8:H:90:ALA:HA	8:H:143:LEU:HD23	1.96	0.46
9:I:36:ILE:CD1	9:I:40:SER:HB2	2.46	0.46
15:O:248:PRO:CB	15:O:307:PHE:HE2	2.27	0.46
15:O:344:ILE:HD11	15:O:346:ASN:CB	2.44	0.46
15:O:347:LEU:CB	17:Q:152:ILE:O	2.54	0.46
15:O:410:ASP:O	15:O:411:LYS:CB	2.59	0.46
15:O:713:ILE:H	15:O:713:ILE:HD12	1.81	0.46
15:O:725:VAL:CG1	16:P:446:TYR:O	2.63	0.46
16:P:95:LEU:HD22	16:P:99:GLU:HB2	1.97	0.46
16:P:166:TYR:CE2	16:P:230:ILE:HD13	2.50	0.46
16:P:287:TRP:CE3	16:P:290:THR:CG2	2.93	0.46
16:P:334:LEU:HD21	16:P:449:GLN:CD	2.40	0.46
16:P:479:LEU:C	16:P:479:LEU:CD2	2.82	0.46
19:S:45:DG:H2'	19:S:46:DT:C6	2.50	0.46
1:A:747:ILE:HA	1:A:1072:ASN:OD1	2.15	0.46
2:B:155:VAL:CB	17:Q:359:MET:CE	2.92	0.46
2:B:655:TYR:CE1	2:B:657:PRO:HD2	2.50	0.46
3:C:86:PHE:O	12:L:63:ARG:N	2.47	0.46
7:G:163:PRO:HD2	7:G:166:TRP:CD1	2.50	0.46
8:H:48:PRO:HG2	8:H:146:ARG:HH22	1.81	0.46
9:I:2:SER:OG	9:I:9:PHE:HB2	2.16	0.46
9:I:41:GLN:HB2	9:I:42:PHE:H	1.53	0.46
13:M:202:TYR:HE2	13:M:397:MET:HE1	1.81	0.46
14:N:94:ASP:C	14:N:96:GLU:N	2.47	0.46
15:O:248:PRO:N	15:O:307:PHE:HE2	2.14	0.46
15:O:251:SER:HB3	15:O:411:LYS:HD3	1.98	0.46
15:O:342:GLN:HB2	15:O:344:ILE:CG2	2.46	0.46
15:O:352:PHE:HB2	15:O:355:GLU:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:614:GLU:OE2	15:O:668:SER:C	2.55	0.46
16:P:94:LYS:N	16:P:206:GLN:CA	2.79	0.46
16:P:184:TRP:HD1	16:P:190:MET:N	1.98	0.46
16:P:293:ARG:O	20:T:47:DC:N4	2.38	0.46
16:P:342:THR:O	16:P:343:THR:CG2	2.64	0.46
19:S:39:DT:C6	19:S:39:DT:C4'	2.99	0.46
1:A:721:LYS:HD2	1:A:721:LYS:HA	1.78	0.46
2:B:787:MET:O	2:B:927:CYS:HA	2.15	0.46
7:G:162:ILE:HD13	7:G:217:TRP:HZ3	1.80	0.46
10:J:21:TYR:CE2	10:J:25:LEU:HD11	2.50	0.46
15:O:512:LEU:O	15:O:513:THR:C	2.59	0.46
15:O:569:VAL:HG11	16:P:477:GLY:HA3	1.98	0.46
16:P:137:TRP:O	16:P:141:LEU:HG	2.16	0.46
16:P:408:ILE:CG2	16:P:412:LYS:HE3	2.45	0.46
17:Q:274:MET:C	17:Q:277:ILE:CG2	2.89	0.46
17:Q:283:ARG:HB2	17:Q:302:ARG:HB2	1.96	0.46
17:Q:384:VAL:C	17:Q:388:LYS:O	2.58	0.46
1:A:122:LEU:HD13	1:A:338:VAL:HA	1.98	0.46
1:A:246:ASP:OD2	1:A:249:THR:OG1	2.14	0.46
1:A:403:LEU:CD2	13:M:166:ARG:HH21	2.26	0.46
1:A:998:HIS:HE1	2:B:712:SER:H	1.61	0.46
2:B:74:PHE:CE1	2:B:94:LYS:HA	2.50	0.46
3:C:128:ASP:HB3	3:C:172:GLN:HB2	1.96	0.46
7:G:69:LEU:O	7:G:72:LYS:HB3	2.16	0.46
8:H:36:CYS:HA	8:H:126:GLU:O	2.16	0.46
13:M:45:LYS:HE2	13:M:48:LYS:HB3	1.93	0.46
14:N:78:THR:O	14:N:89:ILE:HG13	2.15	0.46
15:O:698:LYS:CE	16:P:126:PRO:HD3	2.40	0.46
16:P:246:GLU:N	16:P:246:GLU:CD	2.73	0.46
16:P:496:GLU:O	16:P:499:LYS:CB	2.62	0.46
17:Q:365:TRP:CE3	17:Q:365:TRP:CA	2.98	0.46
17:Q:377:ASP:O	17:Q:380:SER:N	2.47	0.46
17:Q:380:SER:CA	17:Q:384:VAL:HG13	2.37	0.46
1:A:239:PHE:HB3	1:A:256:LEU:HD13	1.98	0.46
1:A:394:LEU:HD21	13:M:172:LEU:HD21	1.97	0.46
1:A:464:GLU:O	1:A:468:ARG:N	2.49	0.46
1:A:629:ASP:OD1	1:A:630:GLY:N	2.49	0.46
1:A:1238:MET:HE3	1:A:1240:LEU:HD21	1.97	0.46
2:B:108:MET:SD	2:B:120:LYS:HA	2.56	0.46
2:B:166:GLN:NE2	2:B:189:GLU:O	2.49	0.46
2:B:341:SER:O	2:B:344:GLN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1079:LEU:O	2:B:1084:THR:HG22	2.16	0.46
2:B:1195:ARG:NH2	7:G:117:TRP:CZ2	2.83	0.46
3:C:54:PHE:CE2	3:C:300:PHE:HD2	2.33	0.46
5:E:32:GLN:O	5:E:36:GLU:N	2.29	0.46
7:G:75:ASN:OD1	7:G:76:LYS:HG2	2.16	0.46
14:N:103:ASN:HA	14:N:132:GLN:NE2	2.31	0.46
15:O:270:GLN:HE21	15:O:289:SER:H	1.64	0.46
15:O:299:ASP:OD1	15:O:299:ASP:C	2.59	0.46
15:O:446:ASP:CG	15:O:448:THR:HG22	2.40	0.46
15:O:470:SER:OG	15:O:471:MET:N	2.49	0.46
15:O:593:VAL:HG11	16:P:320:PHE:HD2	1.77	0.46
15:O:599:LYS:NZ	16:P:275:GLU:OE1	2.44	0.46
15:O:693:PHE:CG	15:O:746:ARG:HB2	2.51	0.46
16:P:94:LYS:N	16:P:206:GLN:HA	2.31	0.46
16:P:100:ALA:O	16:P:211:TYR:CE1	2.69	0.46
16:P:113:LYS:O	16:P:116:ILE:CD1	2.64	0.46
16:P:125:PHE:HA	16:P:126:PRO:HD2	1.40	0.46
17:Q:381:ARG:C	17:Q:383:PHE:N	2.72	0.46
1:A:89:LEU:HD23	1:A:90:PHE:CZ	2.51	0.46
1:A:719:ILE:HB	1:A:725:LEU:HB2	1.98	0.46
1:A:1239:THR:N	1:A:1542:THR:O	2.45	0.46
2:B:719:CYS:O	2:B:723:LYS:CB	2.64	0.46
2:B:890:ASP:C	2:B:892:SER:H	2.24	0.46
8:H:48:PRO:CD	8:H:146:ARG:HH12	2.29	0.46
14:N:86:ASP:HB3	14:N:142:THR:HB	1.97	0.46
15:O:196:TYR:CG	15:O:197:ARG:N	2.79	0.46
15:O:319:ASP:HB2	15:O:363:ILE:HG21	1.98	0.46
15:O:346:ASN:C	15:O:347:LEU:HG	2.20	0.46
15:O:381:ILE:CG2	15:O:382:GLU:N	2.79	0.46
15:O:499:GLU:OE2	15:O:500:ILE:HD12	2.16	0.46
15:O:581:ALA:C	15:O:585:GLU:HB3	2.41	0.46
15:O:713:ILE:CG2	15:O:717:LYS:CE	2.94	0.46
16:P:119:LEU:HD13	16:P:165:LEU:HD11	1.87	0.46
16:P:178:THR:CG2	16:P:179:CYS:N	2.78	0.46
16:P:186:CYS:O	16:P:380:TRP:NE1	2.49	0.46
16:P:365:ASP:O	16:P:366:TYR:C	2.58	0.46
16:P:493:ILE:O	16:P:498:LEU:HB2	2.16	0.46
17:Q:279:SER:C	17:Q:301:SER:CB	2.66	0.46
1:A:1494:ARG:NH1	9:I:55:ALA:O	2.49	0.45
1:A:1567:ASN:ND2	1:A:1579:PHE:HE1	2.14	0.45
2:B:76:GLY:C	2:B:91:LEU:CD2	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:586:VAL:O	2:B:593:ILE:HG13	2.15	0.45
2:B:1105:ARG:HB2	2:B:1165:ASN:O	2.16	0.45
3:C:148:LYS:H	3:C:148:LYS:HG3	1.46	0.45
3:C:172:GLN:H	3:C:175:GLN:HE21	1.64	0.45
5:E:23:VAL:HG12	5:E:28:TYR:HB2	1.97	0.45
7:G:163:PRO:HD2	7:G:166:TRP:NE1	2.29	0.45
15:O:186:TYR:C	15:O:187:ILE:HG13	2.40	0.45
15:O:301:GLN:O	15:O:320:ILE:CG2	2.64	0.45
15:O:475:ARG:HD3	16:P:367:PHE:HZ	1.72	0.45
15:O:610:LEU:HD11	15:O:614:GLU:CD	2.40	0.45
15:O:703:PHE:CE1	16:P:254:LEU:HD23	2.51	0.45
15:O:713:ILE:O	15:O:714:PHE:C	2.58	0.45
16:P:247:ILE:CG1	16:P:286:LEU:CB	2.94	0.45
19:S:39:DT:C7	19:S:41:DT:H73	2.46	0.45
19:S:42:DG:N2	20:T:13:DC:C2	2.84	0.45
1:A:335:LEU:HD22	1:A:339:PHE:HE2	1.81	0.45
1:A:821:ILE:HG22	2:B:778:TYR:HA	1.98	0.45
1:A:1478:ALA:HB2	9:I:21:ASN:ND2	2.32	0.45
2:B:75:ASP:H	2:B:77:LYS:CD	2.30	0.45
2:B:132:SER:OG	2:B:462:GLN:NE2	2.49	0.45
3:C:227:TYR:HB3	3:C:300:PHE:HE1	1.81	0.45
3:C:246:ARG:HH11	3:C:246:ARG:HG3	1.80	0.45
5:E:178:ILE:HG23	5:E:214:CYS:HA	1.97	0.45
7:G:38:ILE:HA	7:G:124:VAL:O	2.15	0.45
7:G:63:LYS:HA	7:G:67:ASN:HD22	1.80	0.45
10:J:41:LEU:CD2	10:J:46:CYS:HB3	2.46	0.45
12:L:51:CYS:SG	12:L:53:HIS:HB2	2.56	0.45
13:M:42:LYS:O	14:N:29:PHE:HA	2.16	0.45
13:M:76:TYR:CE2	14:N:57:LYS:HG2	2.51	0.45
13:M:174:THR:C	13:M:175:ARG:HG2	2.40	0.45
13:M:197:ASP:OD2	13:M:199:GLU:HB2	2.16	0.45
15:O:324:TRP:CD1	15:O:348:HIS:CA	2.99	0.45
15:O:351:ILE:CD1	17:Q:162:PHE:CE1	2.98	0.45
15:O:529:GLU:O	15:O:531:PHE:HD2	1.99	0.45
15:O:641:TRP:CE2	15:O:653:SER:CA	2.88	0.45
16:P:143:THR:CB	16:P:236:MET:HE3	2.41	0.45
16:P:360:LYS:HB2	16:P:360:LYS:HZ3	1.80	0.45
19:S:40:DT:O2	19:S:41:DT:H72	2.16	0.45
1:A:1101:THR:HG22	1:A:1120:TYR:CG	2.51	0.45
1:A:1239:THR:HB	1:A:1542:THR:OG1	2.16	0.45
2:B:1194:ILE:HB	2:B:1195:ARG:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:25:THR:HA	7:G:128:GLN:OE1	2.16	0.45
12:L:31:CYS:CB	12:L:48:CYS:SG	3.04	0.45
13:M:66:THR:HB	13:M:71:GLN:HG3	1.99	0.45
14:N:90:MET:O	14:N:137:PHE:HA	2.17	0.45
15:O:194:ARG:CG	15:O:197:ARG:NH2	2.80	0.45
15:O:317:ILE:HG22	15:O:363:ILE:CD1	2.46	0.45
15:O:359:SER:HA	15:O:361:LYS:HZ2	1.82	0.45
15:O:446:ASP:OD1	15:O:446:ASP:C	2.54	0.45
16:P:135:ILE:C	16:P:135:ILE:HD12	2.41	0.45
16:P:171:HIS:HB2	16:P:243:PHE:CD2	2.50	0.45
16:P:355:VAL:O	17:Q:211:ARG:NH2	2.49	0.45
17:Q:277:ILE:C	17:Q:278:TYR:CD1	2.94	0.45
1:A:132:GLU:HA	1:A:135:LYS:HB2	1.98	0.45
1:A:437:PHE:CE2	2:B:1184:TYR:CZ	3.05	0.45
1:A:530:TRP:CD2	1:A:531:PRO:HD3	2.50	0.45
1:A:777:LEU:O	8:H:120:GLY:HA2	2.15	0.45
2:B:264:TRP:HB3	2:B:269:TYR:CE2	2.51	0.45
2:B:1127:CYS:HA	2:B:1163:GLN:O	2.16	0.45
2:B:1139:LYS:O	2:B:1141:LEU:CA	2.62	0.45
8:H:48:PRO:HD2	8:H:146:ARG:HH12	1.81	0.45
15:O:351:ILE:CG1	17:Q:162:PHE:HE1	2.28	0.45
15:O:352:PHE:O	15:O:353:ASP:C	2.58	0.45
15:O:353:ASP:CG	17:Q:28:SER:CA	2.79	0.45
15:O:479:HIS:CE1	15:O:491:SER:HG	2.33	0.45
15:O:483:HIS:ND1	15:O:489:PHE:CE1	2.85	0.45
15:O:578:PHE:O	15:O:579:ASN:ND2	2.49	0.45
15:O:611:ILE:HD13	15:O:731:LEU:HD23	1.99	0.45
16:P:95:LEU:C	16:P:100:ALA:HB2	2.41	0.45
1:A:116:HIS:NE2	1:A:185:ARG:HB2	2.31	0.45
1:A:847:LEU:HD22	1:A:983:LYS:HG2	1.98	0.45
1:A:938:VAL:O	1:A:942:GLN:HG3	2.16	0.45
1:A:957:VAL:HG12	1:A:958:PRO:O	2.17	0.45
1:A:1559:ARG:HH22	1:A:1583:ASP:CG	2.23	0.45
2:B:814:ASN:CG	2:B:816:ASN:HB2	2.42	0.45
8:H:9:ILE:O	8:H:31:THR:OG1	2.27	0.45
8:H:107:VAL:HB	8:H:111:LEU:HB3	1.98	0.45
8:H:116:TYR:OH	8:H:134:ASN:OD1	2.33	0.45
13:M:152:ASP:O	13:M:155:THR:HB	2.15	0.45
13:M:189:PRO:HG3	13:M:331:TYR:CE1	2.52	0.45
13:M:199:GLU:HA	13:M:342:PHE:CZ	2.51	0.45
15:O:46:UNK:CB	15:O:491:SER:HB3	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:183:ASP:OD2	15:O:246:LYS:CA	2.64	0.45
15:O:183:ASP:OD2	15:O:246:LYS:HA	2.15	0.45
15:O:375:PHE:HB3	15:O:380:MET:CG	2.44	0.45
15:O:424:VAL:CG2	15:O:437:SER:OG	2.63	0.45
15:O:426:ALA:O	15:O:427:SER:C	2.57	0.45
15:O:438:TRP:NE1	15:O:489:PHE:CB	2.73	0.45
15:O:604:ILE:CA	15:O:732:LEU:HD22	2.33	0.45
15:O:615:ASN:HB3	15:O:617:HIS:CD2	2.52	0.45
15:O:698:LYS:CD	16:P:124:ARG:O	2.65	0.45
15:O:704:LEU:HB3	16:P:255:LYS:HZ3	1.81	0.45
16:P:134:LYS:O	16:P:138:LEU:HG	2.16	0.45
16:P:223:ASN:ND2	16:P:224:GLY:CA	2.75	0.45
17:Q:248:LYS:HB3	17:Q:249:SER:H	1.44	0.45
17:Q:349:ILE:HG13	17:Q:349:ILE:H	1.61	0.45
1:A:70:LYS:HG3	1:A:71:PHE:CD2	2.51	0.45
1:A:480:ALA:HB3	1:A:635:MET:HE2	1.97	0.45
1:A:921:PRO:CG	8:H:19:ARG:HD2	2.44	0.45
1:A:998:HIS:CE1	2:B:711:GLN:HA	2.39	0.45
2:B:979:GLN:NE2	2:B:999:GLN:HE22	2.15	0.45
12:L:51:CYS:SG	12:L:52:GLY:N	2.90	0.45
15:O:472:ARG:HH11	17:Q:203:SER:HB3	1.80	0.45
15:O:660:LYS:CB	15:O:663:LEU:HD22	2.43	0.45
15:O:711:LEU:HD23	15:O:711:LEU:C	2.42	0.45
15:O:723:VAL:O	15:O:725:VAL:N	2.50	0.45
15:O:775:TRP:CD1	16:P:109:GLN:O	2.70	0.45
16:P:103:LEU:HA	16:P:106:LYS:HB2	1.97	0.45
16:P:208:PRO:HG2	16:P:213:SER:HB3	1.97	0.45
16:P:274:ILE:O	16:P:275:GLU:C	2.58	0.45
16:P:340:GLN:HG2	16:P:341:ARG:N	2.22	0.45
19:S:6:DG:C8	19:S:7:DT:C4	3.04	0.45
1:A:403:LEU:O	1:A:407:GLN:HB3	2.16	0.45
1:A:481:ARG:HD2	2:B:1069:ILE:HG21	1.98	0.45
1:A:921:PRO:HG2	8:H:19:ARG:HG3	1.80	0.45
1:A:1133:LEU:HD11	1:A:1171:GLN:C	2.42	0.45
1:A:1162:ASN:OD1	1:A:1165:LYS:N	2.38	0.45
1:A:1224:GLU:OE2	1:A:1234:LYS:N	2.44	0.45
1:A:1288:ARG:NH2	1:A:1481:GLU:O	2.50	0.45
1:A:1306:TYR:O	1:A:1308:VAL:HG13	2.16	0.45
2:B:269:TYR:HD1	13:M:131:ALA:CB	2.29	0.45
2:B:782:ASP:O	2:B:950:ASN:HB2	2.16	0.45
3:C:146:ALA:O	3:C:147:PRO:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:272:LYS:HE3	3:C:272:LYS:HB3	1.68	0.45
12:L:49:LYS:HE3	12:L:49:LYS:HB2	1.75	0.45
13:M:13:GLU:HG2	13:M:87:SER:HB2	1.99	0.45
13:M:332:ILE:HA	13:M:335:ILE:HD12	1.99	0.45
15:O:270:GLN:HG3	15:O:271:ILE:N	2.32	0.45
15:O:271:ILE:HB	15:O:289:SER:CB	2.47	0.45
15:O:302:VAL:C	15:O:320:ILE:HG13	2.41	0.45
15:O:306:ALA:HB1	15:O:365:TRP:HE3	1.81	0.45
15:O:399:TRP:HD1	17:Q:134:PRO:CB	2.14	0.45
15:O:399:TRP:HD1	17:Q:134:PRO:HB3	1.78	0.45
15:O:585:GLU:OE1	15:O:588:SER:HB2	2.17	0.45
15:O:653:SER:O	15:O:654:LEU:HG	2.16	0.45
16:P:151:GLU:C	16:P:151:GLU:CD	2.85	0.45
16:P:238:HIS:CD2	16:P:289:ARG:CD	3.00	0.45
16:P:246:GLU:HB3	16:P:286:LEU:CB	2.46	0.45
17:Q:390:ASN:N	17:Q:390:ASN:ND2	2.60	0.45
19:S:48:DG:C6	19:S:49:DA:C6	3.05	0.45
1:A:84:PRO:CG	1:A:318:THR:HG22	2.47	0.45
1:A:417:ARG:HA	1:A:417:ARG:CZ	2.47	0.45
1:A:781:LEU:CA	1:A:786:TYR:CE1	2.90	0.45
1:A:920:PHE:CB	1:A:921:PRO:HD2	2.40	0.45
1:A:1105:ARG:O	1:A:1109:SER:N	2.49	0.45
2:B:811:LEU:HD11	2:B:825:PHE:CZ	2.52	0.45
2:B:916:LYS:HZ2	18:R:6:A:P	2.38	0.45
5:E:22:MET:O	5:E:26:ARG:HG3	2.17	0.45
8:H:62:SER:HA	8:H:141:TYR:CE1	2.51	0.45
13:M:75:GLN:HE21	14:N:64:ILE:HG12	1.81	0.45
13:M:114:LYS:C	13:M:114:LYS:CE	2.86	0.45
14:N:43:ASP:O	14:N:49:LYS:HG3	2.17	0.45
14:N:101:GLN:OE1	14:N:104:LEU:HD13	2.17	0.45
15:O:291:PRO:C	15:O:292:LEU:CG	2.90	0.45
15:O:353:ASP:O	17:Q:28:SER:CA	2.64	0.45
15:O:354:PRO:C	15:O:355:GLU:O	2.58	0.45
16:P:155:GLN:CB	20:T:44:DC:C3'	2.85	0.45
16:P:195:ALA:HA	16:P:216:GLU:HG3	1.17	0.45
16:P:258:MET:HE3	16:P:442:LEU:CD2	2.46	0.45
16:P:287:TRP:CE3	16:P:290:THR:HG23	2.51	0.45
17:Q:209:ARG:HG3	17:Q:210:THR:N	2.32	0.45
20:T:40:DT:H2'	20:T:41:DT:H71	1.98	0.45
1:A:406:LEU:HG	1:A:407:GLN:H	1.82	0.45
1:A:588:LEU:HB3	1:A:636:HIS:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1447:GLN:HB2	1:A:1460:TYR:HB3	1.99	0.45
1:A:1497:ILE:HD12	1:A:1497:ILE:O	2.17	0.45
2:B:1121:GLY:C	7:G:239:THR:CB	2.88	0.45
7:G:134:GLU:HA	7:G:229:LEU:O	2.17	0.45
10:J:17:LYS:HD3	10:J:39:LEU:HB3	1.99	0.45
15:O:293:TYR:CD1	15:O:295:VAL:CG2	2.96	0.45
15:O:363:ILE:HG22	15:O:374:VAL:CG1	2.40	0.45
15:O:367:SER:HB2	15:O:369:PHE:CD2	2.52	0.45
15:O:437:SER:O	15:O:438:TRP:HB3	2.17	0.45
15:O:698:LYS:C	16:P:125:PHE:CE1	2.94	0.45
16:P:210:TYR:CD1	20:T:43:DT:O3'	2.70	0.45
16:P:260:CYS:C	16:P:262:LEU:N	2.75	0.45
16:P:282:ARG:HB3	16:P:282:ARG:NH1	2.32	0.45
16:P:284:LEU:CD1	16:P:305:ARG:HE	2.26	0.45
16:P:378:LEU:HD12	17:Q:235:ILE:CD1	2.44	0.45
16:P:495:LYS:C	16:P:496:GLU:OE1	2.60	0.45
17:Q:355:THR:CA	17:Q:359:MET:SD	3.02	0.45
19:S:40:DT:O4'	19:S:41:DT:C6	2.70	0.45
1:A:79:ILE:HB	1:A:360:LEU:HB3	1.98	0.45
1:A:113:VAL:HG21	1:A:178:LEU:HD22	1.99	0.45
2:B:21:ARG:O	2:B:24:ARG:N	2.49	0.45
2:B:311:ARG:NH2	9:I:19:ASN:H	2.10	0.45
2:B:731:VAL:HG12	10:J:60:PHE:CZ	2.52	0.45
2:B:931:TRP:HB3	2:B:936:MET:SD	2.57	0.45
2:B:1121:GLY:CA	7:G:239:THR:O	2.64	0.45
3:C:161:HIS:HD2	10:J:19:GLU:OE2	2.00	0.45
5:E:112:TYR:CZ	5:E:136:ASN:HB2	2.53	0.45
13:M:38:PHE:CD2	14:N:119:LEU:HB2	2.51	0.45
15:O:188:GLN:CD	15:O:196:TYR:HB2	2.41	0.45
15:O:217:ALA:HB2	15:O:233:VAL:HA	1.99	0.45
15:O:362:ARG:HH12	15:O:364:GLU:HB2	1.81	0.45
15:O:538:LEU:HD12	15:O:538:LEU:C	2.41	0.45
15:O:645:LYS:C	15:O:647:GLU:H	2.25	0.45
16:P:211:TYR:CD2	16:P:211:TYR:N	2.85	0.45
19:S:14:DA:N6	20:T:40:DT:O4	2.50	0.45
20:T:18:DG:H2'	20:T:19:DC:H6	1.81	0.45
1:A:596:HIS:HA	1:A:1191:GLN:CD	2.42	0.44
1:A:1533:GLU:OE1	5:E:14:ARG:NH1	2.50	0.44
2:B:532:HIS:HB3	2:B:544:HIS:HB2	1.99	0.44
3:C:70:ILE:HG12	3:C:74:GLU:OE1	2.17	0.44
3:C:247:PHE:HE1	3:C:279:VAL:HG21	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:42:PHE:CZ	9:I:44:ASN:CG	2.92	0.44
15:O:184:SER:O	15:O:185:GLN:HG3	2.17	0.44
15:O:232:ASN:O	15:O:233:VAL:HG23	2.17	0.44
15:O:322:GLY:HA2	15:O:349:GLY:O	2.16	0.44
15:O:458:LYS:HB3	15:O:459:PRO:CD	2.47	0.44
15:O:471:MET:HA	15:O:504:THR:HG22	1.99	0.44
15:O:707:ASP:OD2	16:P:439:ILE:HG12	2.17	0.44
16:P:119:LEU:CG	16:P:165:LEU:HD11	2.43	0.44
16:P:211:TYR:CG	16:P:212:VAL:N	2.85	0.44
16:P:385:PHE:CZ	17:Q:212:HIS:NE2	2.84	0.44
16:P:469:PRO:HG2	16:P:470:PRO:HD2	1.98	0.44
17:Q:144:VAL:HG12	17:Q:144:VAL:O	2.18	0.44
19:S:28:DT:N3	20:T:27:DA:H2	1.86	0.44
1:A:52:LEU:HD13	1:A:61:LEU:O	2.18	0.44
1:A:414:GLU:OE1	1:A:417:ARG:HG2	2.17	0.44
1:A:539:GLU:OE1	1:A:539:GLU:N	2.34	0.44
1:A:970:LYS:HE2	1:A:973:GLU:OE1	2.17	0.44
1:A:1478:ALA:HB2	9:I:21:ASN:HD21	1.79	0.44
1:A:1559:ARG:NH2	1:A:1583:ASP:OD1	2.38	0.44
2:B:771:ALA:HB1	2:B:946:ASP:HB2	1.98	0.44
2:B:934:ILE:HD12	3:C:69:ARG:NH1	2.32	0.44
3:C:89:THR:OG1	3:C:201:GLU:N	2.38	0.44
5:E:40:GLU:O	5:E:43:LYS:HB2	2.16	0.44
7:G:219:ASP:CG	7:G:220:SER:N	2.74	0.44
7:G:242:VAL:O	7:G:243:VAL:C	2.60	0.44
8:H:103:LYS:HE3	8:H:115:TYR:CE2	2.52	0.44
13:M:38:PHE:HB3	13:M:53:LEU:HD11	1.99	0.44
13:M:172:LEU:HB2	13:M:173:PRO:HD2	1.98	0.44
15:O:186:TYR:O	15:O:186:TYR:CD1	2.70	0.44
15:O:248:PRO:CD	15:O:307:PHE:HE2	2.29	0.44
15:O:294:PHE:O	15:O:294:PHE:CG	2.71	0.44
15:O:365:TRP:CE2	15:O:407:ARG:CD	3.00	0.44
15:O:414:ILE:CD1	15:O:434:ARG:HE	2.30	0.44
15:O:437:SER:CB	15:O:489:PHE:CE2	3.00	0.44
15:O:473:HIS:O	15:O:473:HIS:ND1	2.50	0.44
15:O:530:ASN:O	15:O:531:PHE:CG	2.70	0.44
15:O:585:GLU:O	15:O:588:SER:CA	2.64	0.44
15:O:663:LEU:HB3	15:O:666:SER:HB3	1.98	0.44
15:O:747:LEU:O	15:O:748:GLU:CB	2.62	0.44
16:P:112:LEU:HD12	16:P:112:LEU:O	2.18	0.44
16:P:188:ALA:O	16:P:189:LYS:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:247:ILE:CA	17:Q:250:LEU:HB2	2.48	0.44
17:Q:304:HIS:CD2	17:Q:304:HIS:C	2.95	0.44
17:Q:377:ASP:O	17:Q:378:THR:C	2.59	0.44
1:A:262:THR:HA	1:A:265:ARG:CG	2.47	0.44
1:A:466:LEU:HA	1:A:469:LYS:HE2	2.00	0.44
1:A:683:LYS:HD2	8:H:20:TYR:CE2	2.53	0.44
1:A:720:PHE:HE2	8:H:141:TYR:HE2	1.66	0.44
1:A:1294:MET:O	1:A:1469:TRP:HA	2.18	0.44
2:B:142:LYS:HE2	2:B:144:SER:OG	2.17	0.44
2:B:1127:CYS:HB3	2:B:1163:GLN:HB2	2.00	0.44
3:C:39:ASP:OD2	3:C:58:ASN:HB3	2.18	0.44
3:C:197:ARG:CZ	10:J:61:LEU:HD13	2.47	0.44
7:G:142:ALA:C	7:G:217:TRP:HZ2	2.25	0.44
9:I:27:ASN:HA	9:I:37:TYR:C	2.43	0.44
9:I:42:PHE:CD1	9:I:42:PHE:O	2.70	0.44
11:K:59:THR:HB	11:K:107:THR:OG1	2.17	0.44
13:M:114:LYS:HE3	13:M:114:LYS:O	2.17	0.44
13:M:185:ASP:OD1	13:M:186:ARG:N	2.50	0.44
15:O:232:ASN:HB2	15:O:281:SER:O	2.18	0.44
15:O:306:ALA:O	15:O:317:ILE:HD13	2.17	0.44
15:O:329:ILE:HB	15:O:330:PRO:CD	2.47	0.44
16:P:146:ASP:CA	16:P:148:PRO:CD	2.88	0.44
16:P:284:LEU:CB	16:P:302:ALA:HB1	2.43	0.44
16:P:343:THR:HB	16:P:347:SER:N	2.04	0.44
17:Q:266:SER:O	17:Q:266:SER:OG	2.26	0.44
17:Q:347:ASP:O	17:Q:350:SER:HB2	2.17	0.44
17:Q:352:TRP:N	17:Q:352:TRP:CD1	2.85	0.44
19:S:5:DT:H3	20:T:50:DA:H2	1.63	0.44
1:A:385:LEU:HG	1:A:453:ILE:CD1	2.47	0.44
1:A:436:ALA:HB2	1:A:443:ALA:HB2	1.99	0.44
1:A:593:PRO:O	1:A:595:LEU:N	2.41	0.44
1:A:1262:LEU:HA	1:A:1497:ILE:HA	1.98	0.44
1:A:1654:PHE:CZ	6:F:89:GLU:HA	2.52	0.44
2:B:280:LEU:HD23	2:B:354:LEU:HD23	1.99	0.44
2:B:609:ARG:NH1	2:B:662:ASP:OD2	2.50	0.44
2:B:1176:VAL:C	2:B:1179:PRO:HD2	2.42	0.44
4:D:84:SER:O	4:D:87:SER:HB2	2.18	0.44
7:G:56:ASN:CG	7:G:59:GLN:HB3	2.43	0.44
9:I:24:LEU:N	9:I:24:LEU:CD2	2.73	0.44
11:K:59:THR:O	11:K:106:GLN:HA	2.17	0.44
15:O:289:SER:HB3	15:O:339:ARG:NH1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:369:PHE:CE1	15:O:431:ASP:HB3	2.53	0.44
16:P:143:THR:OG1	16:P:236:MET:CE	2.65	0.44
16:P:235:GLY:N	16:P:289:ARG:HB3	2.27	0.44
16:P:435:GLN:H	16:P:435:GLN:HG3	1.38	0.44
17:Q:34:ILE:HD12	17:Q:34:ILE:HA	1.83	0.44
1:A:61:LEU:HB3	1:A:66:GLY:C	2.42	0.44
1:A:214:ASP:HB2	1:A:1605:THR:CG2	2.47	0.44
1:A:594:THR:OG1	2:B:1075:GLU:HG3	2.17	0.44
1:A:1085:LEU:HD21	1:A:1172:LEU:HD21	1.99	0.44
1:A:1090:ASP:HB3	1:A:1132:TYR:CE1	2.52	0.44
1:A:1612:LYS:HB3	1:A:1621:PHE:CD1	2.53	0.44
5:E:32:GLN:HG3	5:E:36:GLU:HG3	2.00	0.44
7:G:242:VAL:HG23	7:G:243:VAL:N	2.32	0.44
15:O:656:HIS:CG	15:O:747:LEU:N	2.86	0.44
15:O:733:THR:HG21	16:P:264:PRO:HB3	1.98	0.44
16:P:120:ILE:O	16:P:124:ARG:CA	2.65	0.44
16:P:419:LEU:HD13	16:P:420:ASP:H	1.81	0.44
17:Q:383:PHE:O	17:Q:383:PHE:CD1	2.70	0.44
19:S:26:DT:C6	19:S:27:DT:N3	2.85	0.44
1:A:78:HIS:NE2	1:A:80:GLU:OE2	2.51	0.44
1:A:102:CYS:SG	1:A:238:MET:HB2	2.57	0.44
1:A:729:LYS:CE	8:H:120:GLY:HA3	2.48	0.44
1:A:781:LEU:C	1:A:786:TYR:CE1	2.95	0.44
2:B:513:LYS:HG3	2:B:514:THR:N	2.31	0.44
2:B:944:GLN:OE1	2:B:944:GLN:N	2.51	0.44
5:E:20:LYS:NZ	5:E:34:GLU:O	2.31	0.44
6:F:79:ARG:HB3	6:F:146:TRP:CZ2	2.53	0.44
15:O:214:LEU:HD12	15:O:263:ILE:HD13	1.91	0.44
15:O:237:GLU:C	15:O:237:GLU:CD	2.85	0.44
15:O:274:ILE:CD1	15:O:284:VAL:CG1	2.94	0.44
15:O:384:ASP:OD2	15:O:387:ASN:CB	2.57	0.44
15:O:414:ILE:CB	15:O:425:GLY:C	2.87	0.44
15:O:610:LEU:HD11	15:O:614:GLU:CG	2.47	0.44
16:P:315:ASN:O	16:P:319:SER:CA	2.64	0.44
16:P:341:ARG:HB2	16:P:445:ARG:NH2	2.29	0.44
17:Q:207:ASN:HD21	19:S:13:DA:P	2.30	0.44
1:A:246:ASP:CG	1:A:249:THR:H	2.25	0.44
1:A:627:ASP:C	1:A:629:ASP:H	2.25	0.44
1:A:846:ILE:HD13	1:A:906:GLN:HG3	2.00	0.44
1:A:1314:GLN:O	1:A:1318:SER:OG	2.30	0.44
2:B:205:MET:O	2:B:206:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:150:SER:C	3:C:151:THR:O	2.60	0.44
5:E:159:ASP:OD1	5:E:162:ARG:NH2	2.51	0.44
8:H:6:PHE:HB3	8:H:59:ILE:HD12	1.98	0.44
13:M:199:GLU:HA	13:M:342:PHE:CE2	2.52	0.44
15:O:205:TYR:HH	15:O:229:ARG:NH1	2.11	0.44
15:O:306:ALA:O	15:O:317:ILE:HB	2.18	0.44
15:O:314:GLN:HB2	15:O:329:ILE:HG23	2.00	0.44
15:O:353:ASP:CG	17:Q:31:PHE:CD2	2.85	0.44
15:O:356:GLU:O	15:O:377:ARG:NH2	2.49	0.44
15:O:471:MET:CG	15:O:542:ARG:NH1	2.80	0.44
15:O:585:GLU:C	15:O:587:GLU:N	2.73	0.44
15:O:615:ASN:C	15:O:617:HIS:N	2.75	0.44
16:P:158:MET:HG3	16:P:192:TYR:OH	2.17	0.44
16:P:240:LYS:HG3	16:P:241:GLU:N	2.33	0.44
16:P:334:LEU:HD22	16:P:449:GLN:OE1	2.16	0.44
16:P:490:ASP:HB3	16:P:491:PHE:CD1	2.51	0.44
17:Q:393:ILE:CG1	17:Q:395:LEU:HB2	2.47	0.44
17:Q:422:GLY:O	17:Q:424:PHE:CE2	2.71	0.44
19:S:46:DT:H2'	19:S:47:DT:C7	2.48	0.44
1:A:469:LYS:HA	2:B:1070:ARG:HH22	1.82	0.44
1:A:582:LYS:HG3	1:A:584:ARG:HG2	1.99	0.44
1:A:732:ILE:HA	1:A:735:VAL:HG22	1.99	0.44
1:A:872:ASP:HB3	1:A:875:LEU:CB	2.48	0.44
1:A:1026:GLN:NE2	1:A:1603:MET:HB2	2.24	0.44
2:B:65:VAL:O	2:B:68:ILE:HG12	2.18	0.44
2:B:86:SER:O	2:B:90:TYR:CB	2.65	0.44
2:B:841:ASP:C	2:B:843:ASP:H	2.26	0.44
2:B:1116:SER:HB3	2:B:1127:CYS:SG	2.58	0.44
3:C:196:LEU:HD23	3:C:196:LEU:HA	1.79	0.44
10:J:32:GLU:HG2	10:J:33:GLY:H	1.83	0.44
12:L:68:GLU:O	12:L:70:ARG:N	2.48	0.44
15:O:289:SER:O	15:O:290:GLU:HB3	2.17	0.44
15:O:326:ILE:H	15:O:344:ILE:HG12	1.83	0.44
15:O:393:VAL:O	15:O:394:VAL:CG2	2.53	0.44
15:O:537:PHE:CE1	15:O:552:LEU:HD11	2.49	0.44
16:P:104:PHE:HZ	16:P:215:LEU:CD2	2.02	0.44
16:P:309:TYR:O	16:P:313:THR:OG1	2.23	0.44
16:P:369:TRP:HZ3	17:Q:219:LEU:CD1	2.31	0.44
17:Q:245:VAL:CG2	17:Q:250:LEU:HD21	2.48	0.44
17:Q:274:MET:HA	17:Q:277:ILE:HG21	1.92	0.44
17:Q:296:PRO:HB2	17:Q:304:HIS:NE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:355:THR:C	17:Q:359:MET:HB2	2.43	0.44
1:A:43:HIS:NE2	13:M:186:ARG:CZ	2.81	0.44
1:A:326:THR:HA	1:A:329:ARG:NH1	2.32	0.44
1:A:372:LYS:CD	1:A:377:VAL:HG22	2.45	0.44
1:A:1050:TYR:HB3	1:A:1054:ALA:HA	2.00	0.44
1:A:1460:TYR:CE1	1:A:1462:PHE:HB2	2.53	0.44
2:B:75:ASP:CB	2:B:77:LYS:CD	2.85	0.44
2:B:815:ARG:CZ	19:S:26:DT:H5''	2.45	0.44
2:B:823:GLN:O	2:B:899:GLN:NE2	2.45	0.44
2:B:1120:ILE:HA	13:M:309:GLN:H	1.82	0.44
5:E:90:VAL:O	5:E:94:LYS:HB3	2.18	0.44
5:E:164:LEU:HD21	5:E:211:TYR:CD2	2.53	0.44
6:F:144:GLU:HB3	6:F:146:TRP:NE1	2.33	0.44
7:G:56:ASN:OD1	7:G:59:GLN:HB3	2.17	0.44
7:G:95:LEU:HD12	7:G:96:SER:N	2.33	0.44
13:M:161:ILE:O	13:M:164:SER:HB2	2.18	0.44
13:M:245:LYS:HE3	13:M:246:LYS:HE3	2.00	0.44
14:N:52:GLN:HA	14:N:134:ASP:OD2	2.18	0.44
15:O:326:ILE:HB	15:O:344:ILE:CB	2.48	0.44
15:O:347:LEU:HD23	17:Q:152:ILE:HG23	1.99	0.44
15:O:354:PRO:HB2	17:Q:131:TYR:CZ	2.51	0.44
15:O:475:ARG:CB	16:P:367:PHE:HE2	2.30	0.44
15:O:499:GLU:CG	15:O:500:ILE:N	2.69	0.44
15:O:511:ILE:HD13	15:O:536:ASP:C	2.43	0.44
15:O:539:VAL:HG21	15:O:550:TYR:CE2	2.53	0.44
15:O:669:PHE:CG	15:O:675:PHE:HB2	2.52	0.44
16:P:106:LYS:HA	16:P:109:GLN:CD	2.43	0.44
16:P:113:LYS:HE3	16:P:117:ARG:HH22	1.83	0.44
17:Q:361:ASP:C	17:Q:364:VAL:CG2	2.91	0.44
1:A:6:PRO:HD3	7:G:113:PHE:CE2	2.52	0.43
1:A:31:GLN:HA	1:A:78:HIS:O	2.18	0.43
1:A:481:ARG:NH2	1:A:592:GLN:OE1	2.51	0.43
1:A:966:LEU:HB2	1:A:969:PHE:CD2	2.53	0.43
2:B:800:TYR:HE1	2:B:908:ARG:HH21	1.60	0.43
2:B:938:PHE:CE1	2:B:1014:TYR:HD2	2.36	0.43
15:O:5:UNK:O	15:O:6:UNK:CB	2.66	0.43
15:O:24:UNK:N	17:Q:314:TRP:CH2	2.86	0.43
15:O:186:TYR:CE2	15:O:512:LEU:HD21	2.41	0.43
15:O:264:ILE:CG1	15:O:305:PHE:CE2	2.96	0.43
15:O:315:PHE:HB2	15:O:317:ILE:HD13	2.00	0.43
15:O:344:ILE:CD1	15:O:346:ASN:CA	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:347:LEU:HD23	17:Q:152:ILE:CG2	2.48	0.43
15:O:435:ARG:O	15:O:435:ARG:CG	2.65	0.43
15:O:616:SER:HB2	15:O:621:LYS:H	1.83	0.43
15:O:659:LEU:N	15:O:659:LEU:CD2	2.61	0.43
16:P:144:ILE:HG23	16:P:154:LEU:HD12	2.00	0.43
16:P:207:LEU:HD23	16:P:209:ASN:ND2	2.33	0.43
16:P:336:GLU:O	16:P:339:THR:N	2.50	0.43
17:Q:380:SER:O	17:Q:384:VAL:N	2.51	0.43
20:T:40:DT:C2'	20:T:41:DT:H71	2.47	0.43
1:A:67:LEU:CB	1:A:72:CYS:HB2	2.38	0.43
1:A:1026:GLN:NE2	1:A:1603:MET:HE3	2.32	0.43
1:A:1612:LYS:HB3	1:A:1621:PHE:CD2	2.53	0.43
2:B:21:ARG:NH1	10:J:54:VAL:HA	2.33	0.43
2:B:100:GLU:HG2	2:B:142:LYS:HB2	2.00	0.43
2:B:372:ARG:NH1	2:B:573:ALA:HB3	2.33	0.43
2:B:618:PRO:C	2:B:620:LEU:H	2.25	0.43
2:B:931:TRP:CD1	2:B:936:MET:SD	3.11	0.43
3:C:163:TYR:HB3	3:C:189:PRO:O	2.18	0.43
7:G:239:THR:O	7:G:239:THR:OG1	2.33	0.43
8:H:103:LYS:HB3	8:H:115:TYR:HD2	1.83	0.43
9:I:10:CYS:CB	9:I:13:CYS:SG	3.06	0.43
9:I:19:ASN:C	9:I:21:ASN:N	2.75	0.43
10:J:6:ARG:HG2	10:J:13:VAL:HA	2.00	0.43
13:M:109:ARG:HG2	13:M:110:GLY:N	2.33	0.43
13:M:205:GLU:HA	13:M:208:ILE:O	2.17	0.43
14:N:41:ASN:HA	14:N:44:ASN:HB3	1.99	0.43
15:O:56:UNK:CB	15:O:552:LEU:HD23	2.48	0.43
15:O:269:PHE:HE2	15:O:294:PHE:HD1	1.66	0.43
15:O:651:SER:C	15:O:749:LYS:NZ	2.62	0.43
15:O:698:LYS:CE	16:P:124:ARG:O	2.66	0.43
15:O:747:LEU:C	15:O:748:GLU:CG	2.80	0.43
16:P:103:LEU:HA	16:P:106:LYS:HD3	1.99	0.43
16:P:104:PHE:HA	16:P:212:VAL:HG23	2.00	0.43
17:Q:247:ILE:CD1	17:Q:248:LYS:HD2	2.44	0.43
17:Q:277:ILE:HG13	17:Q:278:TYR:CG	2.30	0.43
17:Q:380:SER:HB3	17:Q:438:PHE:CZ	2.49	0.43
1:A:957:VAL:HG11	1:A:997:PHE:CE1	2.53	0.43
2:B:167:SER:C	2:B:169:ARG:N	2.76	0.43
2:B:311:ARG:NH1	9:I:18:GLU:HA	2.25	0.43
2:B:505:ARG:CZ	2:B:509:PHE:HE2	2.30	0.43
2:B:743:ARG:HD2	2:B:745:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1120:ILE:O	13:M:309:GLN:HB2	2.19	0.43
3:C:272:LYS:NZ	14:N:179:ASP:OD2	2.32	0.43
8:H:53:ASP:OD1	8:H:54:SER:N	2.51	0.43
13:M:43:LYS:O	13:M:49:ASP:CA	2.61	0.43
13:M:275:ARG:HD2	13:M:325:GLU:CD	2.43	0.43
15:O:394:VAL:O	15:O:395:GLN:CB	2.47	0.43
15:O:395:GLN:NE2	15:O:397:LYS:C	2.77	0.43
15:O:432:PRO:O	15:O:433:VAL:CG2	2.58	0.43
15:O:474:LYS:HG3	15:O:475:ARG:N	2.34	0.43
15:O:506:THR:HG21	15:O:540:LYS:NZ	2.33	0.43
15:O:654:LEU:HD21	15:O:748:GLU:CD	2.43	0.43
15:O:662:LEU:N	15:O:662:LEU:CD2	2.73	0.43
16:P:116:ILE:CA	16:P:119:LEU:HD12	2.31	0.43
16:P:247:ILE:HD12	16:P:286:LEU:HA	0.51	0.43
16:P:354:LYS:HG2	16:P:362:THR:HG21	0.58	0.43
17:Q:204:GLU:OE2	17:Q:205:VAL:N	2.52	0.43
1:A:736:LEU:HD23	1:A:736:LEU:HA	1.85	0.43
1:A:861:VAL:HG21	1:A:892:LEU:HA	1.99	0.43
1:A:1113:HIS:CE1	1:A:1114:TYR:HD2	2.35	0.43
1:A:1292:ILE:O	1:A:1471:GLU:HA	2.19	0.43
2:B:317:TYR:HB3	2:B:320:LEU:HG	2.00	0.43
2:B:336:VAL:HG11	13:M:123:ALA:HB3	2.00	0.43
2:B:479:GLN:CB	19:S:39:DT:N3	2.72	0.43
2:B:479:GLN:CB	19:S:39:DT:O2	2.67	0.43
2:B:561:ILE:O	2:B:564:ILE:HG22	2.18	0.43
5:E:77:SER:O	5:E:106:GLN:N	2.52	0.43
7:G:69:LEU:HD12	7:G:69:LEU:HA	1.83	0.43
7:G:92:ALA:HB3	7:G:104:LEU:HD23	1.98	0.43
9:I:18:GLU:O	9:I:28:VAL:HG11	2.19	0.43
10:J:16:ASP:OD1	10:J:17:LYS:HG3	2.19	0.43
13:M:212:GLU:O	13:M:216:ILE:HG13	2.18	0.43
13:M:264:TYR:CD2	13:M:335:ILE:HD11	2.53	0.43
15:O:205:TYR:N	15:O:215:ASN:O	2.34	0.43
15:O:213:VAL:HG12	15:O:214:LEU:N	2.33	0.43
15:O:247:ILE:HG12	15:O:261:VAL:CG1	2.48	0.43
15:O:251:SER:CB	15:O:411:LYS:HZ3	2.29	0.43
15:O:264:ILE:CD1	15:O:302:VAL:CG1	2.96	0.43
15:O:353:ASP:CA	17:Q:28:SER:CA	2.60	0.43
15:O:421:ILE:HG12	15:O:441:ASP:HB3	2.01	0.43
15:O:604:ILE:CG2	15:O:732:LEU:CD2	2.97	0.43
15:O:744:LEU:CD1	15:O:744:LEU:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:263:PRO:O	16:P:264:PRO:C	2.61	0.43
16:P:263:PRO:O	16:P:265:GLU:N	2.50	0.43
16:P:439:ILE:H	16:P:439:ILE:HG13	1.62	0.43
17:Q:380:SER:HB3	17:Q:438:PHE:HE1	1.84	0.43
1:A:52:LEU:HB3	1:A:63:SER:H	1.84	0.43
1:A:1091:VAL:HG12	1:A:1133:LEU:HB3	2.01	0.43
1:A:1655:ASP:OD1	1:A:1656:VAL:N	2.52	0.43
4:D:91:ARG:HG2	4:D:94:ARG:HH21	1.82	0.43
7:G:145:ILE:O	7:G:156:SER:HA	2.18	0.43
10:J:7:CYS:CA	10:J:49:MET:HE3	2.47	0.43
10:J:17:LYS:HB3	10:J:39:LEU:HD13	2.00	0.43
11:K:47:ILE:HD11	11:K:63:PHE:HB3	2.00	0.43
13:M:235:PRO:HD3	13:M:263:TYR:CE1	2.54	0.43
13:M:250:LEU:HA	13:M:255:GLN:OE1	2.19	0.43
14:N:52:GLN:HG2	14:N:134:ASP:OD2	2.19	0.43
15:O:55:UNK:O	15:O:552:LEU:CD2	2.66	0.43
15:O:339:ARG:CG	15:O:340:LYS:N	2.79	0.43
15:O:350:THR:OG1	15:O:352:PHE:HE1	2.00	0.43
15:O:354:PRO:HB2	17:Q:131:TYR:CE1	2.54	0.43
15:O:475:ARG:HE	15:O:496:THR:HG21	1.84	0.43
15:O:610:LEU:CG	15:O:614:GLU:CD	2.92	0.43
15:O:623:LEU:HD13	15:O:669:PHE:CA	2.48	0.43
16:P:104:PHE:CE2	16:P:155:GLN:OE1	2.71	0.43
16:P:474:GLU:OE1	16:P:474:GLU:HA	2.18	0.43
17:Q:211:ARG:HG3	17:Q:212:HIS:N	2.33	0.43
17:Q:251:TRP:CD1	17:Q:298:GLN:OE1	2.72	0.43
17:Q:356:PRO:CA	17:Q:359:MET:HB2	2.49	0.43
20:T:13:DC:O3'	20:T:14:DT:H73	2.19	0.43
1:A:76:GLN:HG3	1:A:362:VAL:O	2.18	0.43
1:A:417:ARG:NH1	13:M:155:THR:HG23	2.34	0.43
1:A:417:ARG:NH1	13:M:155:THR:CG2	2.82	0.43
1:A:826:PHE:HB3	2:B:777:SER:OG	2.18	0.43
2:B:87:ASN:O	2:B:91:LEU:HA	2.18	0.43
2:B:164:MET:CB	2:B:194:PHE:HE1	2.32	0.43
2:B:322:ASN:HB3	13:M:105:SER:HA	2.00	0.43
7:G:37:CYS:SG	7:G:127:PRO:HA	2.59	0.43
8:H:107:VAL:N	8:H:111:LEU:O	2.51	0.43
14:N:40:LEU:O	14:N:44:ASN:HB2	2.18	0.43
15:O:436:ILE:CD1	15:O:436:ILE:O	2.67	0.43
15:O:473:HIS:H	15:O:504:THR:HG21	1.83	0.43
15:O:627:GLY:HA2	15:O:630:LEU:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:736:ILE:HG21	16:P:267:TYR:HE1	1.79	0.43
16:P:95:LEU:CD2	16:P:99:GLU:HB2	2.49	0.43
16:P:146:ASP:N	16:P:148:PRO:HD3	2.30	0.43
16:P:354:LYS:HD3	16:P:365:ASP:OD2	2.19	0.43
17:Q:245:VAL:CB	17:Q:250:LEU:HD11	2.31	0.43
1:A:51:ASP:OD1	1:A:52:LEU:N	2.52	0.43
1:A:530:TRP:CB	1:A:531:PRO:HD3	2.37	0.43
1:A:719:ILE:HD12	1:A:725:LEU:HD12	2.00	0.43
1:A:956:ARG:HD2	1:A:979:GLY:HA3	1.99	0.43
2:B:74:PHE:HD1	2:B:92:GLY:O	2.01	0.43
2:B:177:PRO:O	2:B:181:VAL:HG23	2.19	0.43
2:B:311:ARG:HH12	9:I:18:GLU:CA	2.24	0.43
2:B:916:LYS:HB3	2:B:1036:LEU:HD12	1.99	0.43
6:F:105:ALA:HB2	7:G:51:PRO:HB2	2.00	0.43
7:G:35:SER:C	7:G:37:CYS:H	2.27	0.43
9:I:38:PRO:O	9:I:39:LYS:C	2.57	0.43
10:J:8:PHE:H	10:J:49:MET:HE3	1.82	0.43
13:M:41:TYR:HB2	13:M:52:VAL:O	2.19	0.43
14:N:43:ASP:HB3	14:N:51:GLN:HE22	1.83	0.43
15:O:183:ASP:HB3	15:O:247:ILE:CD1	2.41	0.43
15:O:272:PHE:CD1	15:O:288:SER:HA	2.54	0.43
15:O:344:ILE:CD1	15:O:346:ASN:N	2.74	0.43
15:O:418:SER:OG	15:O:419:ARG:O	2.24	0.43
15:O:488:LEU:C	15:O:488:LEU:HD23	2.44	0.43
15:O:665:ASN:O	15:O:667:ASP:CA	2.59	0.43
16:P:224:GLY:C	16:P:226:LEU:N	2.62	0.43
16:P:246:GLU:CB	16:P:286:LEU:HB3	2.48	0.43
16:P:294:HIS:ND1	16:P:296:GLY:N	2.66	0.43
16:P:356:VAL:CA	17:Q:211:ARG:HE	2.21	0.43
1:A:40:ASN:C	1:A:42:GLY:H	2.27	0.43
1:A:900:VAL:HA	1:A:903:ILE:HG12	2.01	0.43
2:B:49:PHE:CE1	2:B:409:TYR:CE2	3.07	0.43
2:B:121:VAL:HG13	2:B:125:GLU:OE1	2.18	0.43
2:B:262:PHE:CZ	2:B:269:TYR:HB2	2.54	0.43
2:B:464:PHE:HE1	2:B:471:VAL:HG22	1.84	0.43
2:B:576:THR:HG22	2:B:578:ALA:N	2.33	0.43
2:B:1133:MET:HE1	7:G:15:ARG:HH22	1.84	0.43
9:I:43:SER:HB2	9:I:45:LEU:HD23	2.00	0.43
9:I:56:PHE:HB2	9:I:61:ARG:NH2	2.29	0.43
13:M:242:TYR:CE2	13:M:246:LYS:HG3	2.54	0.43
15:O:324:TRP:CE3	15:O:325:SER:N	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:324:TRP:CH2	15:O:346:ASN:O	2.72	0.43
15:O:366:PHE:CZ	15:O:426:ALA:O	2.70	0.43
15:O:430:ASN:CG	15:O:431:ASP:N	2.75	0.43
15:O:704:LEU:HD22	16:P:183:LYS:HZ2	1.84	0.43
16:P:147:GLN:H	16:P:148:PRO:HD3	1.61	0.43
16:P:158:MET:HB2	16:P:192:TYR:CE1	2.53	0.43
16:P:184:TRP:CD1	16:P:190:MET:N	2.81	0.43
16:P:207:LEU:HG	16:P:209:ASN:H	1.83	0.43
16:P:258:MET:HA	16:P:262:LEU:CD2	2.43	0.43
16:P:322:ARG:C	16:P:324:ARG:N	2.76	0.43
17:Q:355:THR:HA	17:Q:359:MET:SD	2.58	0.43
1:A:664:SER:HA	1:A:790:LYS:HD3	2.00	0.43
1:A:1299:ASN:O	1:A:1303:SER:OG	2.14	0.43
2:B:448:ARG:O	2:B:452:ARG:HG3	2.19	0.43
2:B:854:GLU:HA	2:B:874:TYR:HD2	1.83	0.43
4:D:89:LEU:HD12	4:D:92:ILE:HD12	2.00	0.43
5:E:61:GLN:HE21	5:E:77:SER:HG	1.62	0.43
6:F:108:PHE:HZ	7:G:54:LEU:HD23	1.82	0.43
6:F:127:GLU:CB	6:F:129:LYS:HD3	2.49	0.43
7:G:166:TRP:CE3	7:G:219:ASP:HA	2.54	0.43
10:J:6:ARG:HD3	10:J:11:GLY:O	2.18	0.43
13:M:261:LEU:HB3	13:M:339:LEU:HD21	2.00	0.43
15:O:205:TYR:CB	15:O:215:ASN:CB	2.29	0.43
15:O:244:SER:C	15:O:245:ILE:HG13	2.44	0.43
15:O:352:PHE:CB	15:O:355:GLU:H	2.31	0.43
15:O:366:PHE:HB2	15:O:373:LEU:HD11	1.99	0.43
15:O:567:ILE:N	16:P:478:ARG:HH12	2.17	0.43
15:O:669:PHE:HB2	15:O:674:GLU:HB2	2.01	0.43
16:P:137:TRP:NE1	16:P:141:LEU:CG	2.82	0.43
16:P:207:LEU:CD2	16:P:209:ASN:ND2	2.82	0.43
16:P:256:LEU:HD21	16:P:307:LEU:CD2	2.48	0.43
16:P:257:VAL:C	16:P:262:LEU:HB2	2.43	0.43
16:P:380:TRP:O	16:P:380:TRP:CG	2.71	0.43
16:P:403:THR:O	16:P:403:THR:HG22	2.19	0.43
1:A:397:ARG:HE	13:M:170:LYS:CB	2.31	0.43
1:A:583:ASN:OD1	1:A:606:ARG:HA	2.19	0.43
1:A:1288:ARG:CZ	1:A:1481:GLU:O	2.67	0.43
2:B:677:THR:N	2:B:680:GLU:OE2	2.52	0.43
2:B:796:ARG:HE	10:J:11:GLY:HA2	1.84	0.43
5:E:53:PRO:HG2	5:E:55:ARG:CZ	2.49	0.43
6:F:144:GLU:HB3	6:F:146:TRP:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:53:ALA:O	11:K:61:ALA:HA	2.18	0.43
11:K:54:THR:HG22	11:K:55:SER:O	2.19	0.43
15:O:194:ARG:HG3	15:O:197:ARG:CZ	2.49	0.43
15:O:207:SER:O	15:O:213:VAL:HB	2.19	0.43
15:O:273:ARG:CG	15:O:274:ILE:N	2.57	0.43
15:O:301:GLN:CG	15:O:321:LYS:NZ	2.80	0.43
15:O:353:ASP:O	17:Q:28:SER:CB	2.63	0.43
15:O:392:GLU:O	15:O:393:VAL:C	2.62	0.43
15:O:405:TYR:CE2	15:O:414:ILE:CG2	2.93	0.43
15:O:443:ASP:O	17:Q:2:PHE:HA	2.19	0.43
15:O:512:LEU:C	15:O:513:THR:HG22	2.44	0.43
15:O:623:LEU:CD1	15:O:669:PHE:CA	2.97	0.43
15:O:657:SER:C	15:O:658:LYS:HG2	2.42	0.43
16:P:212:VAL:HA	16:P:215:LEU:CG	2.45	0.43
16:P:223:ASN:HD22	16:P:225:GLN:H	1.67	0.43
16:P:237:ILE:HG21	16:P:239:PHE:HB2	2.01	0.43
16:P:343:THR:HG1	16:P:348:ILE:H	1.56	0.43
17:Q:305:THR:HG21	17:Q:310:ILE:HG13	2.01	0.43
19:S:10:DG:C6	19:S:11:DG:C5	3.07	0.43
19:S:10:DG:C6	19:S:11:DG:C6	3.06	0.43
19:S:39:DT:H6	19:S:39:DT:C3'	2.32	0.43
19:S:46:DT:H2'	19:S:47:DT:H71	2.00	0.43
1:A:109:ARG:HB3	1:A:233:CYS:HA	2.00	0.42
1:A:127:TYR:C	1:A:207:SER:HB2	2.44	0.42
1:A:729:LYS:HG2	1:A:776:LEU:HD23	2.01	0.42
1:A:980:GLY:HA2	1:A:997:PHE:CD2	2.54	0.42
1:A:1151:ASN:O	1:A:1155:PHE:N	2.44	0.42
1:A:1455:ARG:HG3	1:A:1456:PHE:CD1	2.54	0.42
1:A:1478:ALA:HB2	9:I:21:ASN:CG	2.44	0.42
2:B:184:LYS:HE3	2:B:735:HIS:CE1	2.54	0.42
3:C:58:ASN:HA	3:C:296:ASN:OD1	2.19	0.42
3:C:115:TRP:CZ3	3:C:211:GLY:HA2	2.53	0.42
3:C:260:GLU:HG2	3:C:262:SER:OG	2.19	0.42
3:C:293:ARG:HG3	3:C:293:ARG:NH1	2.33	0.42
7:G:97:LYS:H	7:G:97:LYS:HZ3	1.67	0.42
13:M:208:ILE:HG21	13:M:216:ILE:HD12	2.01	0.42
13:M:260:GLN:O	13:M:263:TYR:HB3	2.19	0.42
13:M:274:ASN:ND2	13:M:286:ARG:HG3	2.34	0.42
14:N:43:ASP:HB3	14:N:51:GLN:NE2	2.34	0.42
15:O:381:ILE:HG22	15:O:382:GLU:O	2.19	0.42
15:O:415:LEU:HD13	15:O:453:VAL:CG1	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:416:LEU:HD12	15:O:417:THR:H	1.84	0.42
15:O:474:LYS:CE	15:O:498:LEU:HD21	2.48	0.42
15:O:585:GLU:CD	16:P:512:ARG:HH12	2.27	0.42
15:O:703:PHE:CD1	15:O:703:PHE:O	2.72	0.42
15:O:707:ASP:O	15:O:709:PRO:HD3	2.18	0.42
16:P:354:LYS:HD3	16:P:362:THR:HB	2.01	0.42
16:P:469:PRO:CB	16:P:470:PRO:HD2	2.32	0.42
17:Q:280:SER:C	17:Q:282:SER:N	2.76	0.42
1:A:244:ARG:NH2	13:M:144:LEU:HG	2.34	0.42
1:A:579:ARG:NH1	1:A:582:LYS:HG2	2.34	0.42
1:A:920:PHE:CE2	1:A:930:LEU:HD23	2.52	0.42
1:A:1063:MET:HG3	1:A:1064:THR:HG23	2.01	0.42
1:A:1634:LEU:HD21	1:A:1645:LYS:HG3	2.01	0.42
2:B:37:LEU:H	2:B:37:LEU:HD12	1.83	0.42
2:B:74:PHE:C	2:B:76:GLY:N	2.77	0.42
2:B:251:HIS:CE1	2:B:261:ARG:HD2	2.54	0.42
2:B:438:ILE:HG23	2:B:445:TYR:CE1	2.54	0.42
2:B:896:GLN:HB3	12:L:45:ALA:HA	2.01	0.42
3:C:86:PHE:HB3	12:L:62:LYS:HG2	2.01	0.42
3:C:117:ASP:OD2	3:C:119:ASN:ND2	2.52	0.42
5:E:8:ASN:O	5:E:12:LEU:CB	2.67	0.42
5:E:121:MET:HA	5:E:124:VAL:HG23	2.00	0.42
6:F:92:ARG:NH2	7:G:109:PRO:HA	2.33	0.42
10:J:21:TYR:HB2	10:J:39:LEU:CD1	2.50	0.42
13:M:346:ILE:HG13	13:M:371:VAL:HG13	2.01	0.42
13:M:384:ILE:HG21	13:M:392:TYR:CE1	2.53	0.42
15:O:306:ALA:O	15:O:317:ILE:CD1	2.67	0.42
15:O:344:ILE:O	15:O:345:ASP:CB	2.68	0.42
15:O:357:LEU:CD1	15:O:377:ARG:NH2	2.80	0.42
15:O:469:TYR:O	15:O:469:TYR:CD1	2.72	0.42
15:O:741:ILE:HA	15:O:744:LEU:HD21	0.75	0.42
16:P:342:THR:C	16:P:343:THR:CG2	2.92	0.42
17:Q:27:ILE:HD11	17:Q:169:PRO:CD	2.49	0.42
17:Q:204:GLU:CD	17:Q:204:GLU:N	2.73	0.42
17:Q:211:ARG:NH1	17:Q:212:HIS:NE2	2.66	0.42
17:Q:372:HIS:CG	17:Q:407:HIS:NE2	2.87	0.42
1:A:29:ALA:HA	2:B:1129:ARG:NH2	2.34	0.42
1:A:361:VAL:HG22	2:B:1184:TYR:CD1	2.41	0.42
1:A:403:LEU:CD1	1:A:406:LEU:HD21	2.49	0.42
1:A:1612:LYS:HD2	1:A:1621:PHE:CE1	2.54	0.42
2:B:293:ILE:HB	2:B:302:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:565:LEU:HB3	2:B:570:VAL:HG21	2.01	0.42
2:B:840:LEU:HA	2:B:846:PRO:HA	2.02	0.42
2:B:1041:ASN:O	2:B:1044:PHE:HD1	2.02	0.42
3:C:69:ARG:HD3	11:K:71:THR:OG1	2.19	0.42
4:D:27:LEU:O	4:D:29:GLN:NE2	2.49	0.42
7:G:132:VAL:HA	7:G:232:THR:HA	2.00	0.42
7:G:161:ASN:O	7:G:250:ILE:HG23	2.19	0.42
9:I:18:GLU:O	9:I:28:VAL:CG1	2.68	0.42
10:J:41:LEU:HD22	10:J:46:CYS:HB3	2.00	0.42
15:O:663:LEU:O	15:O:664:GLU:HB3	2.19	0.42
16:P:344:THR:HB	16:P:437:THR:HA	1.05	0.42
17:Q:150:GLN:HE21	17:Q:152:ILE:HG13	1.84	0.42
17:Q:242:ILE:O	17:Q:244:GLY:N	2.41	0.42
17:Q:353:VAL:O	17:Q:353:VAL:HG12	2.19	0.42
18:R:4:C:O2'	18:R:5:G:H8	2.02	0.42
1:A:40:ASN:HB2	13:M:185:ASP:OD2	2.20	0.42
1:A:1050:TYR:C	1:A:1052:GLY:H	2.27	0.42
2:B:52:LEU:HD11	2:B:406:GLY:O	2.20	0.42
4:D:89:LEU:HA	4:D:89:LEU:HD12	1.82	0.42
7:G:219:ASP:CG	7:G:220:SER:H	2.28	0.42
15:O:246:LYS:HB3	15:O:248:PRO:CD	2.49	0.42
15:O:607:VAL:HG21	15:O:735:GLU:CD	2.45	0.42
15:O:693:PHE:CZ	16:P:172:LEU:HD21	2.54	0.42
16:P:385:PHE:HZ	17:Q:212:HIS:NE2	2.17	0.42
16:P:496:GLU:C	16:P:499:LYS:HB2	2.45	0.42
17:Q:29:ARG:NE	17:Q:29:ARG:CA	2.81	0.42
17:Q:214:VAL:O	17:Q:215:THR:C	2.63	0.42
1:A:385:LEU:O	1:A:389:VAL:HG23	2.19	0.42
1:A:419:ILE:O	1:A:422:ARG:HB2	2.20	0.42
1:A:1267:ILE:HG12	1:A:1296:PHE:CE1	2.52	0.42
1:A:1639:ALA:O	1:A:1642:VAL:HB	2.19	0.42
1:A:1643:VAL:HG12	1:A:1643:VAL:O	2.19	0.42
2:B:282:HIS:CD2	13:M:101:VAL:HG12	2.54	0.42
2:B:479:GLN:CB	19:S:39:DT:C2	3.02	0.42
7:G:37:CYS:O	7:G:126:GLN:HG2	2.19	0.42
8:H:10:PHE:N	8:H:55:LEU:O	2.33	0.42
13:M:349:LEU:HD12	13:M:349:LEU:HA	1.77	0.42
15:O:54:UNK:HA	15:O:554:ASN:ND2	2.34	0.42
15:O:308:ASN:O	15:O:310:TRP:HD1	1.98	0.42
15:O:353:ASP:CB	17:Q:27:ILE:C	2.92	0.42
15:O:625:ASP:O	15:O:626:LEU:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:653:SER:OG	15:O:752:LEU:HD22	2.19	0.42
15:O:707:ASP:OD2	16:P:439:ILE:HG13	2.19	0.42
16:P:234:CYS:O	16:P:289:ARG:HB3	2.19	0.42
16:P:330:TRP:CZ3	16:P:334:LEU:HD12	2.54	0.42
16:P:354:LYS:CG	16:P:362:THR:HB	2.50	0.42
16:P:401:GLU:C	16:P:402:MET:HE2	2.44	0.42
17:Q:17:ARG:HA	17:Q:20:LYS:HB3	2.00	0.42
17:Q:282:SER:C	17:Q:302:ARG:HB3	2.45	0.42
19:S:43:DC:C2	20:T:12:DG:N2	2.86	0.42
1:A:363:PRO:HB3	2:B:1180:PHE:CD1	2.54	0.42
1:A:414:GLU:O	1:A:417:ARG:CB	2.66	0.42
1:A:469:LYS:HA	2:B:1070:ARG:NH2	2.35	0.42
1:A:884:ARG:HB3	2:B:634:ARG:HD2	2.02	0.42
1:A:1439:MET:HG3	1:A:1444:ARG:CZ	2.49	0.42
2:B:138:LEU:HA	2:B:156:ARG:O	2.19	0.42
2:B:229:TYR:CE2	2:B:253:LEU:HD21	2.55	0.42
2:B:627:GLY:O	2:B:640:LEU:HA	2.20	0.42
14:N:54:TRP:CZ3	14:N:72:VAL:HG21	2.54	0.42
15:O:324:TRP:CD1	15:O:348:HIS:HA	2.53	0.42
15:O:350:THR:O	15:O:352:PHE:CD1	2.72	0.42
15:O:411:LYS:HB2	15:O:411:LYS:HE3	1.65	0.42
15:O:468:VAL:O	15:O:468:VAL:HG23	2.20	0.42
15:O:488:LEU:HD23	15:O:489:PHE:N	2.34	0.42
15:O:615:ASN:C	15:O:617:HIS:H	2.26	0.42
15:O:679:LEU:HD22	15:O:683:PHE:HE2	1.85	0.42
16:P:132:VAL:O	16:P:135:ILE:HG13	2.19	0.42
16:P:356:VAL:HB	17:Q:211:ARG:HH21	1.85	0.42
16:P:380:TRP:O	16:P:380:TRP:CD2	2.73	0.42
17:Q:204:GLU:OE1	17:Q:205:VAL:N	2.33	0.42
19:S:18:DA:C2	20:T:38:DA:C2	3.08	0.42
1:A:52:LEU:HD21	1:A:60:ASN:HB2	2.01	0.42
1:A:209:THR:HG21	5:E:173:SER:OG	2.20	0.42
1:A:228:LEU:HA	1:A:228:LEU:HD23	1.76	0.42
1:A:494:GLU:HA	1:A:604:LYS:O	2.20	0.42
1:A:502:ALA:HA	1:A:581:ILE:CG2	2.50	0.42
1:A:593:PRO:C	1:A:595:LEU:N	2.78	0.42
1:A:864:LEU:HD12	1:A:875:LEU:HD13	2.01	0.42
1:A:1050:TYR:C	1:A:1052:GLY:N	2.77	0.42
2:B:186:GLU:OE1	2:B:731:VAL:HG22	2.20	0.42
2:B:677:THR:OG1	2:B:680:GLU:HG2	2.19	0.42
2:B:691:PHE:HB2	2:B:695:ASN:HD21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1175:THR:O	2:B:1179:PRO:HD3	2.20	0.42
4:D:95:ASP:OD2	7:G:150:HIS:HA	2.19	0.42
8:H:131:ASN:OD1	8:H:132:LEU:N	2.52	0.42
10:J:51:LEU:HD12	10:J:51:LEU:HA	1.90	0.42
13:M:23:VAL:O	13:M:96:LEU:N	2.51	0.42
13:M:160:ASP:O	13:M:163:ASP:HB2	2.19	0.42
15:O:271:ILE:CG2	15:O:272:PHE:N	2.81	0.42
15:O:319:ASP:HA	15:O:324:TRP:CB	2.49	0.42
15:O:342:GLN:HB2	15:O:344:ILE:HG23	2.01	0.42
15:O:583:GLU:HG2	15:O:584:ARG:CA	2.41	0.42
15:O:722:TRP:HH2	16:P:262:LEU:HD12	1.79	0.42
16:P:181:TYR:CD1	16:P:181:TYR:C	2.98	0.42
16:P:185:ILE:HA	16:P:185:ILE:HD13	1.83	0.42
16:P:208:PRO:HA	16:P:212:VAL:HB	2.01	0.42
16:P:237:ILE:HG22	16:P:239:PHE:N	2.35	0.42
16:P:337:SER:OG	16:P:448:LYS:CE	2.68	0.42
1:A:61:LEU:HB3	1:A:66:GLY:HA2	2.01	0.42
1:A:95:TYR:CE2	1:A:99:ARG:HD2	2.54	0.42
2:B:328:GLN:HE22	13:M:109:ARG:H	1.68	0.42
2:B:409:TYR:O	2:B:412:ILE:HG22	2.19	0.42
2:B:432:ILE:HA	2:B:436:MET:HA	2.01	0.42
5:E:23:VAL:CG1	5:E:28:TYR:HB2	2.50	0.42
8:H:30:SER:HB3	8:H:36:CYS:HB3	2.01	0.42
13:M:112:LYS:HE2	13:M:112:LYS:HB3	1.88	0.42
14:N:77:SER:C	14:N:79:THR:H	2.27	0.42
15:O:205:TYR:CG	15:O:215:ASN:HB2	2.35	0.42
15:O:274:ILE:HD12	15:O:284:VAL:CG1	2.50	0.42
15:O:475:ARG:HG2	15:O:496:THR:OG1	2.19	0.42
15:O:618:ASP:O	15:O:621:LYS:HB2	2.20	0.42
15:O:638:LEU:CD2	15:O:748:GLU:CD	2.88	0.42
16:P:155:GLN:HG2	20:T:44:DC:C3'	2.48	0.42
16:P:208:PRO:O	16:P:213:SER:N	2.43	0.42
16:P:385:PHE:O	16:P:388:THR:CG2	2.68	0.42
17:Q:212:HIS:HA	17:Q:215:THR:OG1	2.20	0.42
19:S:28:DT:C1'	19:S:29:DT:C5	2.96	0.42
20:T:29:DC:H2''	20:T:30:DT:O4'	2.19	0.42
1:A:122:LEU:O	1:A:126:GLN:HG3	2.19	0.42
1:A:463:LYS:HG3	1:A:464:GLU:CD	2.45	0.42
1:A:591:ARG:HH21	1:A:631:ASP:HB3	1.83	0.42
1:A:594:THR:HB	2:B:1074:MET:CB	2.48	0.42
1:A:903:ILE:O	1:A:907:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:260:PHE:O	2:B:270:LEU:HD12	2.19	0.42
2:B:442:ASP:OD2	2:B:444:ARG:NE	2.52	0.42
2:B:552:SER:HG	2:B:648:ARG:N	2.15	0.42
2:B:556:SER:O	2:B:558:VAL:N	2.53	0.42
3:C:228:ARG:HG2	3:C:299:ILE:HB	2.01	0.42
6:F:133:VAL:HB	7:G:104:LEU:HD11	2.02	0.42
9:I:17:LEU:CD2	9:I:37:TYR:CE2	2.82	0.42
10:J:39:LEU:HD23	10:J:39:LEU:HA	1.73	0.42
12:L:41:SER:C	12:L:43:THR:H	2.27	0.42
13:M:74:ASN:OD1	13:M:75:GLN:N	2.53	0.42
14:N:94:ASP:HB3	14:N:95:ILE:H	1.60	0.42
15:O:233:VAL:HG12	15:O:234:THR:O	2.20	0.42
15:O:341:LEU:HD12	15:O:341:LEU:C	2.44	0.42
15:O:474:LYS:HE3	15:O:498:LEU:HD21	2.02	0.42
16:P:155:GLN:CG	20:T:44:DC:C4'	2.80	0.42
16:P:171:HIS:CD2	16:P:243:PHE:HB3	2.54	0.42
16:P:279:THR:O	16:P:279:THR:OG1	2.27	0.42
16:P:417:PHE:HD1	16:P:417:PHE:HA	1.67	0.42
17:Q:361:ASP:O	17:Q:362:ALA:HB3	2.20	0.42
17:Q:388:LYS:HE3	17:Q:393:ILE:CB	2.48	0.42
19:S:39:DT:C6	19:S:39:DT:H3'	2.55	0.42
1:A:525:ASN:CG	1:A:529:LYS:HD2	2.45	0.42
1:A:538:ASN:HB2	1:A:540:ASP:OD1	2.20	0.42
1:A:1592:GLN:C	5:E:177:ARG:HB3	2.45	0.42
1:A:1641:ILE:HD13	2:B:1076:ARG:HD2	2.02	0.42
2:B:442:ASP:O	2:B:445:TYR:HB3	2.19	0.42
2:B:734:CYS:HB2	2:B:884:GLU:OE2	2.20	0.42
4:D:39:PHE:CE2	7:G:83:GLY:HA3	2.55	0.42
7:G:149:ILE:HB	7:G:153:PHE:HB2	2.02	0.42
9:I:28:VAL:CA	9:I:37:TYR:HB2	2.44	0.42
9:I:60:LEU:O	9:I:63:LYS:HB2	2.20	0.42
12:L:53:HIS:CD2	12:L:55:ILE:HB	2.55	0.42
15:O:705:HIS:CD2	15:O:709:PRO:HD3	2.55	0.42
16:P:104:PHE:N	16:P:211:TYR:CE1	2.88	0.42
16:P:198:ILE:HG22	16:P:203:TRP:CD1	2.54	0.42
16:P:372:GLU:O	16:P:374:THR:C	2.56	0.42
16:P:505:ILE:CG2	16:P:506:LYS:N	2.82	0.42
17:Q:133:LYS:HE3	17:Q:134:PRO:HD2	2.02	0.42
20:T:10:DC:H2'	20:T:11:DT:H71	2.02	0.42
20:T:38:DA:C2	20:T:39:DC:C2	3.08	0.42
1:A:422:ARG:O	1:A:426:ALA:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:THR:N	1:A:515:ASN:OD1	2.33	0.41
1:A:703:GLU:HB3	11:K:53:ALA:HB2	2.02	0.41
1:A:720:PHE:HE2	8:H:141:TYR:CE2	2.38	0.41
1:A:899:LYS:O	1:A:903:ILE:HG12	2.20	0.41
2:B:699:ILE:H	2:B:699:ILE:HG13	1.66	0.41
2:B:938:PHE:HA	2:B:943:ILE:O	2.20	0.41
3:C:243:SER:HA	3:C:246:ARG:HB3	2.01	0.41
5:E:10:SER:HA	5:E:39:LEU:CD1	2.45	0.41
5:E:90:VAL:O	5:E:123:LEU:HD11	2.20	0.41
7:G:40:ARG:NH1	7:G:121:ASN:OD1	2.49	0.41
8:H:80:ARG:NE	8:H:83:GLN:OE1	2.53	0.41
11:K:100:LEU:HD23	11:K:100:LEU:HA	1.88	0.41
13:M:221:ILE:CG2	13:M:259:LEU:HD21	2.50	0.41
14:N:109:LEU:HB3	14:N:122:ALA:HB2	2.02	0.41
14:N:109:LEU:HD23	14:N:122:ALA:HB2	2.01	0.41
15:O:14:UNK:C	15:O:439:LYS:O	2.56	0.41
15:O:24:UNK:O	17:Q:366:PHE:CZ	2.73	0.41
15:O:215:ASN:CA	15:O:236:ILE:HG13	2.47	0.41
15:O:276:SER:CB	15:O:284:VAL:HG22	2.50	0.41
15:O:353:ASP:N	15:O:354:PRO:HD3	2.28	0.41
15:O:365:TRP:HE1	15:O:407:ARG:NE	2.14	0.41
15:O:393:VAL:HG23	15:O:394:VAL:HG13	2.00	0.41
15:O:473:HIS:N	15:O:504:THR:HG21	2.35	0.41
15:O:597:LYS:HE3	16:P:325:GLN:OE1	2.20	0.41
15:O:701:HIS:CE1	16:P:123:MET:HA	2.54	0.41
15:O:722:TRP:CH2	16:P:262:LEU:CD2	2.75	0.41
16:P:141:LEU:O	16:P:142:LYS:C	2.63	0.41
16:P:257:VAL:C	16:P:262:LEU:CB	2.93	0.41
16:P:418:PRO:O	16:P:419:LEU:C	2.63	0.41
17:Q:21:TYR:CD2	17:Q:124:GLU:HG3	2.47	0.41
17:Q:352:TRP:HB3	17:Q:358:PHE:CD2	2.41	0.41
17:Q:365:TRP:HB3	17:Q:418:CYS:HB2	2.02	0.41
1:A:88:PRO:HG3	1:A:435:ASN:OD1	2.20	0.41
1:A:520:ARG:O	1:A:524:ILE:HG13	2.19	0.41
1:A:1440:ASN:O	1:A:1444:ARG:N	2.46	0.41
2:B:29:PRO:O	2:B:177:PRO:HB2	2.20	0.41
2:B:204:ARG:HD2	2:B:504:HIS:HB2	2.02	0.41
2:B:714:ARG:HA	2:B:714:ARG:HD3	1.85	0.41
2:B:848:ILE:HD11	2:B:883:GLU:O	2.20	0.41
3:C:118:SER:C	3:C:120:LEU:H	2.26	0.41
7:G:38:ILE:HG23	7:G:82:LEU:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:48:ARG:HG3	10:J:49:MET:N	2.35	0.41
13:M:12:ILE:HG13	14:N:69:SER:HA	2.01	0.41
15:O:181:ARG:O	15:O:182:LEU:CG	2.56	0.41
15:O:319:ASP:HA	15:O:324:TRP:CA	2.49	0.41
15:O:405:TYR:CD1	15:O:405:TYR:C	2.98	0.41
15:O:454:GLN:H	15:O:465:VAL:CG2	2.32	0.41
15:O:692:THR:HB	15:O:747:LEU:HD23	1.71	0.41
16:P:235:GLY:N	16:P:289:ARG:HA	2.35	0.41
17:Q:29:ARG:H	17:Q:29:ARG:NE	2.18	0.41
17:Q:354:LEU:HD11	17:Q:359:MET:O	2.19	0.41
1:A:134:TYR:CD2	5:E:192:ARG:HD3	2.56	0.41
1:A:239:PHE:CG	1:A:260:GLN:HB3	2.54	0.41
1:A:403:LEU:HD12	1:A:406:LEU:HD21	2.03	0.41
1:A:1478:ALA:HB1	9:I:21:ASN:CG	2.45	0.41
2:B:677:THR:O	2:B:680:GLU:HG3	2.19	0.41
7:G:131:ASP:O	7:G:233:VAL:HG23	2.20	0.41
11:K:43:ASP:OD2	11:K:46:LYS:N	2.46	0.41
11:K:46:LYS:HA	11:K:66:VAL:HG22	2.02	0.41
11:K:47:ILE:HA	11:K:64:GLN:O	2.20	0.41
13:M:17:ASP:HA	13:M:92:LYS:HD3	2.02	0.41
13:M:173:PRO:HB2	13:M:174:THR:H	1.67	0.41
13:M:186:ARG:HH21	13:M:359:LYS:NZ	2.18	0.41
13:M:211:LYS:O	13:M:215:PHE:HD2	2.02	0.41
13:M:279:ASN:HD21	13:M:282:LYS:HD3	1.85	0.41
15:O:409:ASP:C	15:O:411:LYS:N	2.76	0.41
15:O:442:LEU:CD1	15:O:442:LEU:C	2.86	0.41
15:O:472:ARG:NH2	17:Q:198:LEU:O	2.53	0.41
16:P:159:THR:CG2	16:P:226:LEU:HG	2.50	0.41
16:P:190:MET:C	16:P:192:TYR:H	2.27	0.41
16:P:256:LEU:HA	16:P:259:GLN:HB2	2.02	0.41
16:P:372:GLU:C	16:P:375:LEU:H	2.24	0.41
16:P:469:PRO:CG	16:P:470:PRO:HD2	2.50	0.41
17:Q:216:LEU:H	17:Q:216:LEU:HD12	1.86	0.41
17:Q:353:VAL:HG23	17:Q:358:PHE:CZ	2.55	0.41
17:Q:355:THR:O	17:Q:359:MET:CB	2.65	0.41
19:S:6:DG:H22	20:T:50:DA:C1'	2.31	0.41
1:A:109:ARG:O	1:A:230:ARG:HG3	2.21	0.41
1:A:497:VAL:CG2	1:A:605:VAL:HG13	2.50	0.41
1:A:589:MET:HG3	1:A:603:HIS:HD2	1.86	0.41
2:B:215:MET:HE3	2:B:217:ILE:CG2	2.48	0.41
2:B:307:GLU:O	2:B:311:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:495:ARG:HH11	2:B:723:LYS:CE	2.31	0.41
2:B:951:PRO:O	2:B:954:PHE:HD1	2.03	0.41
13:M:81:PHE:CE2	13:M:83:PRO:HA	2.56	0.41
13:M:243:VAL:O	13:M:247:LEU:HB2	2.20	0.41
14:N:35:LEU:HD12	14:N:114:GLU:O	2.21	0.41
15:O:214:LEU:H	15:O:236:ILE:CG2	2.31	0.41
15:O:216:ILE:O	15:O:234:THR:N	2.53	0.41
15:O:264:ILE:HD13	15:O:302:VAL:CG1	2.49	0.41
15:O:317:ILE:N	15:O:317:ILE:HD12	2.35	0.41
15:O:420:GLU:H	15:O:442:LEU:HD11	1.85	0.41
15:O:466:ALA:O	15:O:467:PHE:HD1	2.03	0.41
15:O:500:ILE:CG2	15:O:501:PRO:HD2	2.40	0.41
15:O:535:VAL:CG1	15:O:552:LEU:HB2	2.51	0.41
16:P:137:TRP:NE1	16:P:141:LEU:CD2	2.82	0.41
17:Q:261:LEU:CD2	17:Q:264:SER:H	2.32	0.41
19:S:52:DA:H2'	19:S:53:DC:C6	2.55	0.41
20:T:28:DC:C4	20:T:29:DC:C4	3.08	0.41
1:A:535:GLN:OE1	1:A:543:LEU:HD21	2.21	0.41
1:A:720:PHE:HE1	8:H:79:TRP:HE1	1.68	0.41
1:A:1256:LYS:NZ	1:A:1304:GLU:O	2.49	0.41
1:A:1636:SER:HB3	1:A:1639:ALA:CB	2.51	0.41
2:B:380:LYS:HE3	2:B:637:TYR:HB3	2.03	0.41
2:B:1012:PRO:HB3	2:B:1021:GLU:OE2	2.21	0.41
3:C:257:GLY:HA3	3:C:266:TYR:CE1	2.55	0.41
7:G:26:ASN:OD1	7:G:126:GLN:HG3	2.21	0.41
13:M:12:ILE:H	14:N:69:SER:HA	1.84	0.41
13:M:26:PHE:O	14:N:106:ASN:CG	2.63	0.41
15:O:270:GLN:HE22	15:O:289:SER:C	2.28	0.41
15:O:611:ILE:CG1	15:O:731:LEU:HD23	2.51	0.41
16:P:155:GLN:CB	20:T:44:DC:C4'	2.99	0.41
16:P:335:THR:HG22	16:P:479:LEU:HG	2.02	0.41
17:Q:181:THR:HA	19:S:10:DG:OP2	2.20	0.41
17:Q:353:VAL:CG2	17:Q:358:PHE:CE1	3.03	0.41
1:A:101:SER:OG	1:A:327:VAL:HG11	2.20	0.41
1:A:344:ASN:HD21	1:A:348:LYS:H	1.66	0.41
1:A:420:PHE:HZ	13:M:158:ALA:CB	2.32	0.41
1:A:834:ARG:HH11	2:B:1008:HIS:CE1	2.39	0.41
1:A:1267:ILE:HA	1:A:1296:PHE:HD1	1.85	0.41
2:B:138:LEU:HD23	2:B:155:VAL:CG1	2.50	0.41
2:B:1014:TYR:HD1	2:B:1021:GLU:HA	1.86	0.41
2:B:1105:ARG:HD3	2:B:1167:PHE:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:37:LYS:O	11:K:134:LYS:HE3	2.21	0.41
4:D:14:THR:H	4:D:17:ASN:HD21	1.68	0.41
4:D:29:GLN:N	7:G:40:ARG:O	2.34	0.41
5:E:46:TYR:CD1	5:E:58:MET:HG3	2.55	0.41
5:E:93:MET:HE3	5:E:97:VAL:HG21	2.03	0.41
5:E:110:PHE:N	5:E:133:GLU:O	2.45	0.41
7:G:138:PHE:CD2	7:G:139:ILE:HG23	2.56	0.41
8:H:108:SER:C	8:H:110:ASP:H	2.28	0.41
11:K:77:ARG:O	11:K:81:MET:HG2	2.20	0.41
13:M:75:GLN:NE2	14:N:64:ILE:HG12	2.36	0.41
13:M:149:ILE:O	13:M:151:SER:N	2.54	0.41
13:M:184:ASN:OD1	13:M:184:ASN:N	2.54	0.41
13:M:303:THR:HG22	13:M:320:ILE:HG12	2.02	0.41
15:O:363:ILE:HG22	15:O:374:VAL:HG22	2.03	0.41
15:O:421:ILE:HG22	15:O:422:ILE:H	1.85	0.41
16:P:148:PRO:HB2	16:P:149:GLN:H	1.62	0.41
16:P:227:TYR:HB3	16:P:301:HIS:CD2	2.55	0.41
16:P:358:PRO:HB2	16:P:359:ASP:H	1.54	0.41
16:P:360:LYS:HG3	16:P:363:SER:CB	2.48	0.41
16:P:417:PHE:O	16:P:419:LEU:HB2	2.20	0.41
17:Q:346:ILE:O	17:Q:349:ILE:CG1	2.67	0.41
1:A:197:LEU:HA	1:A:197:LEU:HD23	1.79	0.41
1:A:1233:ILE:HG22	1:A:1235:THR:N	2.35	0.41
1:A:1588:MET:SD	1:A:1591:ARG:HD3	2.61	0.41
2:B:829:ASN:C	2:B:831:GLU:N	2.78	0.41
3:C:86:PHE:O	12:L:62:LYS:HA	2.20	0.41
7:G:37:CYS:HB3	7:G:126:GLN:C	2.46	0.41
7:G:79:GLY:HA3	7:G:125:TRP:O	2.20	0.41
9:I:19:ASN:O	9:I:21:ASN:N	2.53	0.41
13:M:399:VAL:CB	13:M:400:PRO:CD	2.82	0.41
15:O:194:ARG:C	15:O:197:ARG:CZ	2.94	0.41
15:O:357:LEU:HB2	15:O:377:ARG:NE	2.29	0.41
15:O:375:PHE:HB3	15:O:380:MET:CB	2.50	0.41
15:O:414:ILE:HD12	15:O:425:GLY:C	2.46	0.41
15:O:436:ILE:CB	17:Q:141:TRP:CH2	2.97	0.41
15:O:437:SER:HB2	15:O:489:PHE:HD2	1.81	0.41
15:O:483:HIS:ND1	15:O:489:PHE:HE1	2.19	0.41
15:O:506:THR:HG22	15:O:540:LYS:HG2	2.02	0.41
15:O:641:TRP:CB	15:O:654:LEU:HD23	2.49	0.41
15:O:663:LEU:CD2	15:O:742:TRP:CH2	2.87	0.41
16:P:256:LEU:HA	16:P:256:LEU:HD12	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:332:LEU:HD12	16:P:333:SER:CA	2.51	0.41
16:P:491:PHE:C	16:P:493:ILE:N	2.70	0.41
16:P:498:LEU:O	16:P:501:CYS:HB2	2.20	0.41
17:Q:27:ILE:HD12	17:Q:27:ILE:HA	1.65	0.41
17:Q:261:LEU:CD2	17:Q:264:SER:N	2.84	0.41
1:A:7:VAL:O	7:G:115:PHE:HE2	2.04	0.41
1:A:61:LEU:HG	13:M:319:PHE:HZ	1.84	0.41
1:A:81:LEU:O	1:A:82:PRO:C	2.63	0.41
1:A:725:LEU:HD23	1:A:725:LEU:HA	1.79	0.41
1:A:876:LEU:HD23	1:A:876:LEU:HA	1.90	0.41
1:A:1092:GLU:O	1:A:1093:SER:C	2.63	0.41
1:A:1288:ARG:O	1:A:1475:GLU:HA	2.21	0.41
1:A:1460:TYR:CZ	1:A:1462:PHE:HB2	2.56	0.41
1:A:1478:ALA:C	1:A:1480:THR:H	2.28	0.41
1:A:1530:TRP:CD1	5:E:142:VAL:HG21	2.55	0.41
2:B:167:SER:O	2:B:173:ASN:HB3	2.21	0.41
2:B:375:LEU:HD23	2:B:378:ILE:HD12	2.03	0.41
2:B:556:SER:C	2:B:558:VAL:H	2.27	0.41
2:B:612:LYS:HE3	2:B:662:ASP:OD1	2.21	0.41
2:B:1133:MET:HE1	7:G:15:ARG:NH2	2.36	0.41
2:B:1175:THR:O	2:B:1179:PRO:CD	2.69	0.41
3:C:150:SER:O	3:C:150:SER:OG	2.32	0.41
5:E:94:LYS:O	5:E:98:ILE:HG22	2.20	0.41
10:J:30:LEU:HG	10:J:31:ASP:H	1.85	0.41
10:J:36:LEU:HB2	10:J:47:ARG:NH1	2.35	0.41
13:M:59:ARG:CB	13:M:60:LEU:HD12	2.49	0.41
13:M:122:SER:HA	13:M:125:ARG:HD2	2.03	0.41
15:O:180:ASN:OD1	15:O:180:ASN:C	2.63	0.41
15:O:230:HIS:CB	15:O:280:ARG:HH22	2.30	0.41
15:O:350:THR:CB	17:Q:157:MET:HE2	2.47	0.41
15:O:364:GLU:OE2	15:O:365:TRP:CH2	2.74	0.41
15:O:442:LEU:H	15:O:442:LEU:HG	1.44	0.41
15:O:503:GLY:O	15:O:504:THR:OG1	2.37	0.41
15:O:541:LEU:N	15:O:541:LEU:CD1	2.82	0.41
15:O:585:GLU:O	15:O:587:GLU:N	2.53	0.41
15:O:650:LEU:CD2	16:P:242:PHE:HD2	2.32	0.41
15:O:656:HIS:CD2	15:O:746:ARG:C	2.84	0.41
15:O:712:ASP:O	15:O:713:ILE:C	2.63	0.41
15:O:725:VAL:HG22	15:O:726:SER:H	1.85	0.41
16:P:220:SER:CB	16:P:356:VAL:HG21	2.50	0.41
17:Q:248:LYS:HZ2	17:Q:248:LYS:CA	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:HD12	1:A:230:ARG:NH2	2.35	0.41
1:A:233:CYS:CB	1:A:236:CYS:SG	2.98	0.41
1:A:414:GLU:OE2	1:A:414:GLU:HA	2.21	0.41
1:A:432:ASN:O	1:A:435:ASN:HB2	2.21	0.41
1:A:475:ARG:NH2	2:B:1061:LYS:HG3	2.36	0.41
1:A:657:TYR:CD2	1:A:798:HIS:CD2	3.09	0.41
1:A:712:ILE:HB	11:K:106:GLN:CD	2.46	0.41
1:A:721:LYS:HD3	8:H:96:VAL:HG21	2.00	0.41
1:A:1478:ALA:CA	9:I:21:ASN:ND2	2.82	0.41
2:B:77:LYS:CE	2:B:93:ASN:HB2	2.48	0.41
2:B:244:THR:HG22	2:B:411:MET:HG2	2.03	0.41
2:B:566:TYR:CD2	13:M:73:SER:HB2	2.56	0.41
2:B:725:THR:HG21	2:B:1034:GLN:HB2	2.03	0.41
2:B:738:ASP:O	2:B:806:THR:OG1	2.26	0.41
2:B:1057:MET:HG3	2:B:1173:THR:HG21	2.02	0.41
2:B:1069:ILE:HD12	2:B:1069:ILE:O	2.20	0.41
2:B:1097:ASP:OD2	2:B:1172:GLU:HB2	2.21	0.41
2:B:1102:SER:C	2:B:1113:THR:HG21	2.46	0.41
3:C:119:ASN:OD1	3:C:120:LEU:HB3	2.21	0.41
3:C:172:GLN:O	3:C:175:GLN:HG2	2.20	0.41
5:E:27:GLY:O	5:E:65:THR:HG23	2.21	0.41
5:E:119:SER:O	5:E:122:LYS:HB2	2.21	0.41
6:F:74:ILE:HD12	6:F:143:PHE:C	2.46	0.41
6:F:130:ILE:HG22	6:F:132:LEU:H	1.85	0.41
7:G:29:ASP:C	7:G:31:LYS:N	2.77	0.41
7:G:57:PRO:O	7:G:61:VAL:HG23	2.21	0.41
9:I:17:LEU:CD2	9:I:37:TYR:HE2	2.18	0.41
11:K:70:HIS:O	11:K:71:THR:C	2.64	0.41
13:M:27:PHE:CZ	13:M:30:PHE:HA	2.56	0.41
13:M:90:LEU:HD23	13:M:90:LEU:HA	1.81	0.41
13:M:134:THR:HG23	13:M:135:LYS:N	2.36	0.41
15:O:214:LEU:HD11	15:O:263:ILE:HG21	2.02	0.41
15:O:298:ASP:O	15:O:299:ASP:CG	2.64	0.41
15:O:318:ILE:HD13	15:O:320:ILE:HD12	2.03	0.41
15:O:323:ASN:O	15:O:324:TRP:CD1	2.74	0.41
15:O:353:ASP:HB2	17:Q:27:ILE:C	2.45	0.41
15:O:500:ILE:CG2	15:O:501:PRO:CD	2.99	0.41
15:O:573:GLU:CD	16:P:495:LYS:NZ	2.78	0.41
15:O:578:PHE:HB3	16:P:315:ASN:ND2	2.36	0.41
15:O:588:SER:CB	16:P:512:ARG:NH1	2.68	0.41
15:O:597:LYS:CE	16:P:325:GLN:OE1	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:599:LYS:CD	16:P:272:GLN:HE21	2.22	0.41
15:O:616:SER:HA	15:O:618:ASP:C	2.46	0.41
15:O:652:GLY:O	15:O:653:SER:C	2.64	0.41
16:P:118:TRP:CZ2	16:P:189:LYS:HB3	2.42	0.41
16:P:257:VAL:CA	16:P:262:LEU:CD1	2.98	0.41
16:P:259:GLN:NE2	16:P:259:GLN:C	2.73	0.41
16:P:486:GLN:HE21	16:P:486:GLN:HB3	1.66	0.41
16:P:497:GLN:O	16:P:500:ASP:N	2.54	0.41
17:Q:151:PRO:C	17:Q:153:ASN:ND2	2.79	0.41
17:Q:248:LYS:O	17:Q:251:TRP:CD1	2.74	0.41
17:Q:277:ILE:HD12	17:Q:278:TYR:HD1	1.81	0.41
17:Q:376:ALA:HB2	17:Q:407:HIS:CE1	2.56	0.41
20:T:11:DT:H2''	20:T:12:DG:C8	2.56	0.41
20:T:27:DA:C6	20:T:28:DC:N4	2.88	0.41
1:A:63:SER:C	2:B:1155:ASP:HB3	2.46	0.41
1:A:116:HIS:ND1	1:A:116:HIS:C	2.79	0.41
1:A:125:LEU:C	1:A:128:GLY:H	2.29	0.41
2:B:186:GLU:C	2:B:188:ASP:N	2.78	0.41
2:B:211:ARG:NH2	2:B:646:HIS:HB2	2.35	0.41
2:B:439:ASN:ND2	2:B:441:LYS:HB3	2.36	0.41
2:B:657:PRO:HG3	14:N:148:ILE:CG1	2.51	0.41
2:B:946:ASP:OD1	10:J:9:SER:OG	2.27	0.41
2:B:1084:THR:O	2:B:1084:THR:HG23	2.21	0.41
2:B:1101:ALA:C	2:B:1168:VAL:HG13	2.46	0.41
2:B:1137:ASP:HB3	2:B:1138:ALA:H	1.69	0.41
3:C:79:ALA:HB3	3:C:219:PHE:CE1	2.56	0.41
6:F:116:ASP:O	6:F:120:ILE:HG13	2.21	0.41
7:G:12:GLU:OE1	7:G:15:ARG:NH2	2.53	0.41
7:G:111:THR:HB	7:G:112:PRO:HD2	2.03	0.41
11:K:137:GLU:O	11:K:140:LYS:HB2	2.21	0.41
13:M:30:PHE:CZ	13:M:32:ALA:HB2	2.55	0.41
14:N:36:LYS:O	14:N:112:PRO:HG2	2.21	0.41
14:N:83:ASP:C	14:N:85:HIS:H	2.29	0.41
15:O:183:ASP:OD2	15:O:247:ILE:N	2.54	0.41
15:O:241:PRO:O	15:O:265:THR:HB	2.20	0.41
15:O:342:GLN:N	15:O:342:GLN:OE1	2.55	0.41
15:O:383:ILE:O	15:O:385:PHE:N	2.54	0.41
15:O:434:ARG:O	17:Q:143:THR:O	2.39	0.41
15:O:630:LEU:HB2	15:O:662:LEU:HG	1.56	0.41
15:O:711:LEU:HD23	15:O:711:LEU:O	2.21	0.41
16:P:148:PRO:O	16:P:151:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:206:GLN:O	16:P:207:LEU:HB3	2.20	0.41
16:P:497:GLN:HA	16:P:500:ASP:CB	2.51	0.41
17:Q:133:LYS:HA	17:Q:134:PRO:HD3	1.49	0.41
17:Q:181:THR:CA	19:S:10:DG:OP1	2.69	0.41
17:Q:361:ASP:O	17:Q:364:VAL:HG22	2.18	0.41
19:S:24:DG:C4	19:S:25:DT:C4	3.09	0.41
20:T:10:DC:H2''	20:T:11:DT:H71	2.03	0.41
1:A:93:GLN:HG3	1:A:1627:LEU:HD11	2.02	0.40
1:A:469:LYS:HE3	1:A:470:HIS:NE2	2.36	0.40
1:A:693:GLN:HB3	11:K:88:PHE:CE1	2.56	0.40
1:A:1097:TYR:O	1:A:1101:THR:OG1	2.17	0.40
1:A:1243:TRP:CZ3	1:A:1537:ASP:HB2	2.56	0.40
2:B:45:HIS:CE1	2:B:205:MET:HE2	2.56	0.40
2:B:73:ILE:HB	2:B:425:ILE:CD1	2.51	0.40
2:B:476:LEU:HD23	2:B:476:LEU:HA	1.83	0.40
2:B:790:ASN:HD21	2:B:933:THR:HG23	1.86	0.40
2:B:845:LEU:HD23	2:B:845:LEU:HA	1.83	0.40
5:E:198:ILE:HD11	5:E:212:ARG:HB2	2.02	0.40
6:F:86:THR:HG1	6:F:89:GLU:H	1.64	0.40
7:G:162:ILE:HA	7:G:163:PRO:HD3	1.99	0.40
7:G:237:HIS:ND1	7:G:237:HIS:N	2.66	0.40
13:M:159:ILE:O	13:M:162:VAL:HB	2.21	0.40
15:O:324:TRP:CD1	15:O:348:HIS:CD2	3.01	0.40
15:O:354:PRO:O	15:O:355:GLU:O	2.39	0.40
15:O:383:ILE:CB	15:O:390:GLN:HG3	2.51	0.40
15:O:406:LYS:O	15:O:407:ARG:C	2.63	0.40
15:O:654:LEU:CD1	15:O:748:GLU:CG	2.68	0.40
16:P:122:GLU:HG3	16:P:189:LYS:HD3	2.03	0.40
16:P:226:LEU:CD2	16:P:226:LEU:C	2.94	0.40
16:P:321:ASP:OD1	16:P:321:ASP:N	2.52	0.40
16:P:386:LEU:N	16:P:388:THR:HG22	2.35	0.40
17:Q:295:PRO:HA	17:Q:296:PRO:HD2	1.97	0.40
1:A:64:THR:HB	1:A:75:HIS:CD2	2.57	0.40
1:A:463:LYS:C	1:A:463:LYS:CD	2.85	0.40
1:A:996:TYR:CE1	1:A:1000:MET:HE3	2.56	0.40
2:B:222:PHE:O	2:B:229:TYR:HB3	2.20	0.40
2:B:372:ARG:HH21	2:B:574:SER:HB3	1.85	0.40
2:B:490:LYS:HG2	2:B:490:LYS:O	2.21	0.40
3:C:143:ASN:HD22	3:C:155:GLU:C	2.26	0.40
5:E:12:LEU:CG	5:E:58:MET:HE1	2.50	0.40
9:I:29:GLU:HA	9:I:35:ALA:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:127:LEU:HD12	11:K:127:LEU:HA	1.84	0.40
13:M:22:ALA:HA	13:M:94:PRO:HD2	2.02	0.40
14:N:144:LYS:O	14:N:145:ILE:C	2.63	0.40
15:O:353:ASP:OD1	17:Q:32:ASP:OD1	2.39	0.40
15:O:438:TRP:CZ2	15:O:490:GLN:O	2.74	0.40
16:P:104:PHE:CE1	16:P:211:TYR:CA	3.04	0.40
16:P:282:ARG:CG	16:P:282:ARG:NH1	2.84	0.40
20:T:29:DC:C4	20:T:30:DT:C4	3.09	0.40
1:A:15:ASP:OD1	1:A:1631:ARG:NE	2.24	0.40
1:A:393:SER:HB3	1:A:397:ARG:NH1	2.37	0.40
1:A:969:PHE:CE2	1:A:978:ALA:HA	2.55	0.40
1:A:1137:SER:HB2	5:E:205:SER:O	2.22	0.40
1:A:1584:LEU:HD23	1:A:1584:LEU:C	2.46	0.40
2:B:253:LEU:HD23	2:B:253:LEU:HA	1.76	0.40
2:B:328:GLN:NE2	13:M:109:ARG:H	2.19	0.40
2:B:568:LEU:HD23	2:B:568:LEU:HA	1.91	0.40
2:B:655:TYR:CD1	2:B:657:PRO:HD2	2.56	0.40
2:B:862:PHE:CZ	2:B:867:ASN:HA	2.56	0.40
5:E:152:LYS:HG3	5:E:154:ILE:HG13	2.02	0.40
7:G:12:GLU:O	7:G:15:ARG:HB3	2.22	0.40
9:I:42:PHE:CD1	9:I:42:PHE:C	2.95	0.40
13:M:81:PHE:CE1	13:M:86:LYS:HA	2.57	0.40
15:O:388:ASN:CB	17:Q:150:GLN:NE2	2.58	0.40
15:O:402:ILE:HG23	15:O:416:LEU:HD11	2.03	0.40
15:O:573:GLU:HB3	16:P:495:LYS:HZ3	1.85	0.40
15:O:590:GLY:HA2	16:P:320:PHE:CD2	2.53	0.40
16:P:104:PHE:HA	16:P:212:VAL:CG2	2.51	0.40
16:P:184:TRP:CE3	16:P:185:ILE:HG12	2.56	0.40
16:P:187:THR:OG1	16:P:189:LYS:HG2	2.13	0.40
16:P:366:TYR:HE2	17:Q:218:ASP:HB2	1.72	0.40
17:Q:386:ASP:O	17:Q:390:ASN:CA	2.67	0.40
19:S:51:DG:N2	20:T:5:DT:C2	2.90	0.40
1:A:410:LYS:O	1:A:413:LEU:CG	2.62	0.40
1:A:991:LYS:HB3	1:A:991:LYS:HE3	1.93	0.40
1:A:1019:LEU:HD12	1:A:1019:LEU:HA	1.73	0.40
1:A:1636:SER:HB3	1:A:1639:ALA:HB3	2.02	0.40
2:B:402:VAL:H	2:B:647:SER:HB3	1.86	0.40
2:B:752:VAL:HB	2:B:920:ARG:HH22	1.87	0.40
2:B:1126:VAL:HB	2:B:1166:LYS:CE	2.52	0.40
2:B:1181:VAL:HG23	2:B:1182:LEU:N	2.36	0.40
3:C:121:PRO:HD2	3:C:124:GLU:OE1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:325:ALA:HB3	11:K:125:MET:HG3	2.03	0.40
7:G:142:ALA:O	7:G:217:TRP:HZ2	2.05	0.40
8:H:6:PHE:CZ	8:H:8:ASP:HB2	2.56	0.40
8:H:116:TYR:HD2	8:H:123:MET:HE2	1.86	0.40
13:M:54:HIS:HE1	14:N:23:PHE:CD2	2.38	0.40
13:M:275:ARG:HD2	13:M:325:GLU:HG2	2.03	0.40
14:N:49:LYS:HA	14:N:49:LYS:HD2	1.88	0.40
15:O:183:ASP:HA	15:O:509:GLU:OE1	2.22	0.40
15:O:251:SER:OG	15:O:253:SER:HB3	2.21	0.40
15:O:314:GLN:NE2	15:O:328:ARG:CG	2.74	0.40
15:O:370:GLN:C	15:O:385:PHE:CE1	3.00	0.40
15:O:382:GLU:O	15:O:390:GLN:HA	2.21	0.40
15:O:433:VAL:CG2	15:O:434:ARG:H	2.31	0.40
15:O:436:ILE:CG1	15:O:436:ILE:O	2.70	0.40
15:O:713:ILE:HG21	15:O:717:LYS:HE2	2.03	0.40
16:P:100:ALA:HB3	16:P:210:TYR:CE2	2.56	0.40
16:P:184:TRP:CH2	16:P:192:TYR:HD2	2.23	0.40
16:P:246:GLU:HB2	16:P:286:LEU:H	1.87	0.40
16:P:257:VAL:CA	16:P:262:LEU:HD13	2.47	0.40
16:P:291:ASP:OD1	16:P:291:ASP:N	2.52	0.40
17:Q:133:LYS:HB3	17:Q:133:LYS:HE3	1.77	0.40
1:A:495:ILE:HD12	1:A:495:ILE:HA	1.90	0.40
1:A:741:PRO:HB2	1:A:743:ASP:OD1	2.21	0.40
1:A:1014:SER:CB	20:T:15:DT:H5"	2.47	0.40
1:A:1155:PHE:CZ	1:A:1163:GLU:HG2	2.57	0.40
1:A:1451:ILE:HD11	1:A:1458:THR:O	2.21	0.40
2:B:129:ARG:HG2	2:B:131:THR:CG2	2.51	0.40
2:B:505:ARG:CZ	2:B:509:PHE:CE2	3.05	0.40
2:B:733:LEU:HD12	2:B:743:ARG:NE	2.36	0.40
2:B:970:LYS:NZ	2:B:1009:GLY:O	2.54	0.40
3:C:288:LYS:HE2	3:C:288:LYS:HB3	1.95	0.40
7:G:155:ALA:HA	7:G:245:VAL:CG1	2.51	0.40
8:H:3:ASN:N	8:H:61:SER:OG	2.54	0.40
8:H:19:ARG:HG3	8:H:19:ARG:O	2.22	0.40
8:H:112:ILE:HG21	8:H:131:ASN:HD22	1.84	0.40
13:M:10:ILE:HD12	14:N:72:VAL:CG2	2.50	0.40
14:N:98:SER:HB3	14:N:100:THR:OG1	2.21	0.40
15:O:392:GLU:O	15:O:392:GLU:CG	2.68	0.40
15:O:437:SER:C	15:O:438:TRP:CD1	3.00	0.40
16:P:137:TRP:CE2	16:P:141:LEU:HD21	2.56	0.40
16:P:199:LEU:H	16:P:200:PRO:HD3	1.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:496:GLU:HA	16:P:499:LYS:HD3	2.03	0.40
17:Q:212:HIS:O	17:Q:213:ILE:C	2.64	0.40
17:Q:354:LEU:HD21	17:Q:359:MET:HA	2.01	0.40
19:S:10:DG:C4	19:S:11:DG:C8	3.10	0.40
19:S:25:DT:O4	20:T:30:DT:C4	2.74	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

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	
1	A	1292/1465 (88%)	1270 (98%)	22 (2%)	53	68
2	B	1030/1053 (98%)	1008 (98%)	22 (2%)	47	65
3	C	270/296 (91%)	267 (99%)	3 (1%)	65	74
4	D	56/116 (48%)	56 (100%)	0	100	100
5	E	197/197 (100%)	194 (98%)	3 (2%)	57	70
6	F	73/137 (53%)	73 (100%)	0	100	100
7	G	179/291 (62%)	168 (94%)	11 (6%)	17	43
8	H	117/128 (91%)	116 (99%)	1 (1%)	70	75
9	I	57/110 (52%)	53 (93%)	4 (7%)	14	40
10	J	64/65 (98%)	64 (100%)	0	100	100
11	K	93/130 (72%)	93 (100%)	0	100	100
12	L	40/57 (70%)	39 (98%)	1 (2%)	42	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	M	354/371 (95%)	341 (96%)	13 (4%)	30	53
14	N	146/220 (66%)	142 (97%)	4 (3%)	39	60
15	O	545/778 (70%)	494 (91%)	51 (9%)	8	29
16	P	362/476 (76%)	303 (84%)	59 (16%)	2	14
17	Q	331/474 (70%)	273 (82%)	58 (18%)	2	12
All	All	5206/6364 (82%)	4954 (95%)	252 (5%)	24	48

All (252) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	83	VAL
1	A	116	HIS
1	A	117	ARG
1	A	118	TYR
1	A	227	LEU
1	A	407	GLN
1	A	413	LEU
1	A	415	ASP
1	A	417	ARG
1	A	450	LYS
1	A	461	GLU
1	A	463	LYS
1	A	464	GLU
1	A	551	VAL
1	A	591	ARG
1	A	592	GLN
1	A	721	LYS
1	A	786	TYR
1	A	912	VAL
1	A	1089	LEU
1	A	1161	VAL
1	A	1457	ILE
2	B	91	LEU
2	B	113	VAL
2	B	300	SER
2	B	341	SER
2	B	487	VAL
2	B	507	SER
2	B	593	ILE
2	B	696	ILE

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Mol	Chain	Res	Type
2	B	749	THR
2	B	815	ARG
2	B	819	ASP
2	B	821	ILE
2	B	959	THR
2	B	977	ILE
2	B	1040	VAL
2	B	1046	VAL
2	B	1087	LEU
2	B	1117	VAL
2	B	1174	THR
2	B	1194	ILE
2	B	1195	ARG
2	B	1196	LEU
3	C	148	LYS
3	C	222	VAL
3	C	275	VAL
5	E	125	PRO
5	E	127	ILE
5	E	196	VAL
7	G	39	VAL
7	G	95	LEU
7	G	97	LYS
7	G	98	GLU
7	G	99	ASP
7	G	100	THR
7	G	214	LEU
7	G	237	HIS
7	G	238	THR
7	G	242	VAL
7	G	245	VAL
8	H	65	LEU
9	I	23	VAL
9	I	24	LEU
9	I	41	GLN
9	I	42	PHE
12	L	26	THR
13	M	45	LYS
13	M	48	LYS
13	M	66	THR
13	M	113	ILE
13	M	114	LYS

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Mol	Chain	Res	Type
13	M	118	ASP
13	M	119	THR
13	M	169	SER
13	M	170	LYS
13	M	171	ASP
13	M	174	THR
13	M	398	LYS
13	M	399	VAL
14	N	25	ILE
14	N	95	ILE
14	N	96	GLU
14	N	97	SER
15	O	194	ARG
15	O	197	ARG
15	O	200	THR
15	O	202	ILE
15	O	203	ILE
15	O	209	LYS
15	O	210	THR
15	O	223	ASN
15	O	234	THR
15	O	237	GLU
15	O	259	ASN
15	O	260	LEU
15	O	274	ILE
15	O	292	LEU
15	O	293	TYR
15	O	300	LEU
15	O	307	PHE
15	O	312	LEU
15	O	350	THR
15	O	351	ILE
15	O	353	ASP
15	O	431	ASP
15	O	439	LYS
15	O	463	LEU
15	O	485	LYS
15	O	568	ILE
15	O	583	GLU
15	O	615	ASN
15	O	620	ASP
15	O	649	ILE

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Mol	Chain	Res	Type
15	O	650	LEU
15	O	655	SER
15	O	659	LEU
15	O	661	ASN
15	O	662	LEU
15	O	663	LEU
15	O	665	ASN
15	O	666	SER
15	O	667	ASP
15	O	671	SER
15	O	672	ILE
15	O	689	GLN
15	O	691	VAL
15	O	712	ASP
15	O	714	PHE
15	O	744	LEU
15	O	747	LEU
15	O	760	ILE
15	O	772	ILE
15	O	779	ASP
15	O	780	ILE
16	P	123	MET
16	P	147	GLN
16	P	149	GLN
16	P	150	GLU
16	P	151	GLU
16	P	152	LEU
16	P	154	LEU
16	P	176	VAL
16	P	179	CYS
16	P	183	LYS
16	P	198	ILE
16	P	199	LEU
16	P	214	ILE
16	P	223	ASN
16	P	259	GLN
16	P	273	VAL
16	P	279	THR
16	P	281	ILE
16	P	282	ARG
16	P	283	ASN
16	P	284	LEU

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Mol	Chain	Res	Type
16	P	287	TRP
16	P	291	ASP
16	P	301	HIS
16	P	312	LEU
16	P	317	MET
16	P	321	ASP
16	P	340	GLN
16	P	341	ARG
16	P	348	ILE
16	P	355	VAL
16	P	360	LYS
16	P	365	ASP
16	P	367	PHE
16	P	369	TRP
16	P	370	SER
16	P	371	GLU
16	P	386	LEU
16	P	388	THR
16	P	389	GLN
16	P	399	SER
16	P	400	MET
16	P	401	GLU
16	P	403	THR
16	P	417	PHE
16	P	419	LEU
16	P	422	GLU
16	P	435	GLN
16	P	436	LEU
16	P	439	ILE
16	P	443	GLN
16	P	444	GLU
16	P	453	PHE
16	P	491	PHE
16	P	493	ILE
16	P	495	LYS
16	P	497	GLN
16	P	510	LEU
16	P	512	ARG
17	Q	4	VAL
17	Q	8	LEU
17	Q	9	THR
17	Q	27	ILE

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Mol	Chain	Res	Type
17	Q	29	ARG
17	Q	34	ILE
17	Q	123	GLU
17	Q	132	GLU
17	Q	135	GLU
17	Q	138	PHE
17	Q	139	GLU
17	Q	142	ARG
17	Q	145	SER
17	Q	147	GLN
17	Q	148	ASN
17	Q	149	LYS
17	Q	150	GLN
17	Q	153	ASN
17	Q	155	GLN
17	Q	160	HIS
17	Q	168	ILE
17	Q	178	LEU
17	Q	180	CYS
17	Q	200	THR
17	Q	203	SER
17	Q	204	GLU
17	Q	208	TYR
17	Q	246	GLN
17	Q	247	ILE
17	Q	248	LYS
17	Q	250	LEU
17	Q	269	ASP
17	Q	272	GLN
17	Q	276	GLN
17	Q	277	ILE
17	Q	279	SER
17	Q	285	VAL
17	Q	292	SER
17	Q	293	ILE
17	Q	298	GLN
17	Q	303	THR
17	Q	305	THR
17	Q	317	LEU
17	Q	342	LEU
17	Q	346	ILE
17	Q	349	ILE

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Mol	Chain	Res	Type
17	Q	364	VAL
17	Q	365	TRP
17	Q	382	GLN
17	Q	384	VAL
17	Q	385	ASN
17	Q	388	LYS
17	Q	390	ASN
17	Q	391	ASP
17	Q	392	LEU
17	Q	393	ILE
17	Q	395	LEU
17	Q	397	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (105) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN
1	A	60	ASN
1	A	116	HIS
1	A	224	HIS
1	A	340	HIS
1	A	344	ASN
1	A	432	ASN
1	A	559	ASN
1	A	580	HIS
1	A	590	ASN
1	A	596	HIS
1	A	730	GLN
1	A	785	GLN
1	A	798	HIS
1	A	926	GLN
1	A	949	GLN
1	A	993	GLN
1	A	998	HIS
1	A	1020	GLN
1	A	1026	GLN
1	A	1062	HIS
1	A	1293	HIS
1	A	1314	GLN
1	A	1315	ASN
1	A	1319	ASN
1	A	1447	GLN

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Mol	Chain	Res	Type
1	A	1453	HIS
1	A	1592	GLN
2	B	93	ASN
2	B	101	GLN
2	B	128	GLN
2	B	248	ASN
2	B	295	ASN
2	B	319	HIS
2	B	399	HIS
2	B	462	GLN
2	B	499	HIS
2	B	555	GLN
2	B	575	HIS
2	B	683	ASN
2	B	770	ASN
2	B	814	ASN
2	B	886	ASN
2	B	999	GLN
2	B	1008	HIS
2	B	1010	ASN
2	B	1163	GLN
3	C	161	HIS
3	C	175	GLN
4	D	23	HIS
5	E	113	GLN
7	G	20	HIS
7	G	26	ASN
7	G	59	GLN
7	G	64	GLN
7	G	119	HIS
7	G	126	GLN
7	G	154	ASN
9	I	21	ASN
13	M	75	GLN
13	M	252	GLN
13	M	323	GLN
13	M	324	ASN
14	N	101	GLN
14	N	128	ASN
14	N	132	GLN
14	N	170	HIS
15	O	215	ASN

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Mol	Chain	Res	Type
15	O	226	HIS
15	O	230	HIS
15	O	232	ASN
15	O	239	HIS
15	O	301	GLN
15	O	314	GLN
15	O	336	ASN
15	O	348	HIS
15	O	401	ASN
15	O	440	HIS
15	O	461	HIS
15	O	479	HIS
15	O	556	GLN
15	O	579	ASN
15	O	609	ASN
15	O	635	ASN
15	O	656	HIS
15	O	701	HIS
16	P	109	GLN
16	P	145	ASN
16	P	155	GLN
16	P	171	HIS
16	P	209	ASN
16	P	223	ASN
16	P	225	GLN
16	P	272	GLN
16	P	300	ASN
16	P	340	GLN
16	P	486	GLN
17	Q	155	GLN
17	Q	179	HIS
17	Q	212	HIS
17	Q	263	ASN
17	Q	289	ASN
17	Q	343	GLN
17	Q	385	ASN
17	Q	390	ASN

5.3.3 RNA

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
18	R	5/6 (83%)	0	0

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
15	O	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	67:UNK	C	172:PHE	N	31.28
1	O	28:UNK	C	41:UNK	N	6.55

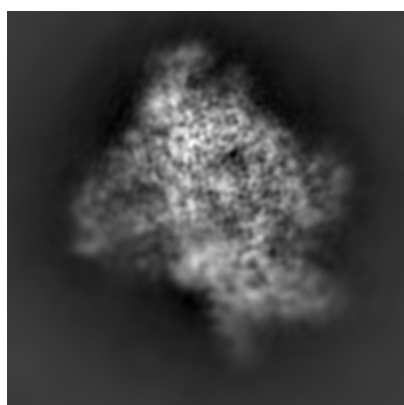
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8776. These allow visual inspection of the internal detail of the map and identification of artifacts.

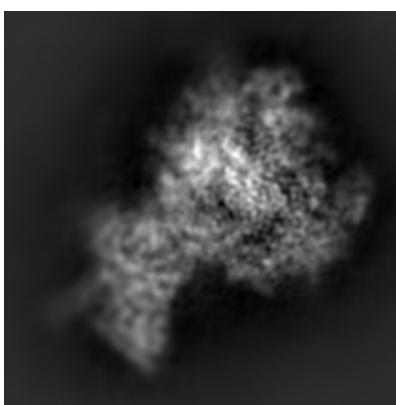
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

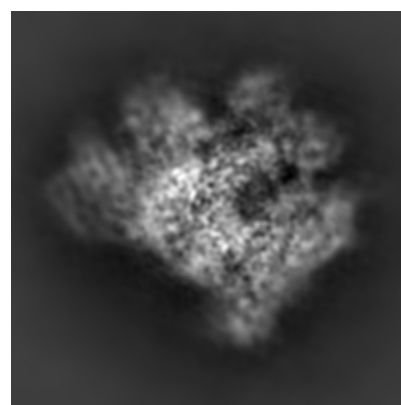
6.1.1 Primary map



X



Y

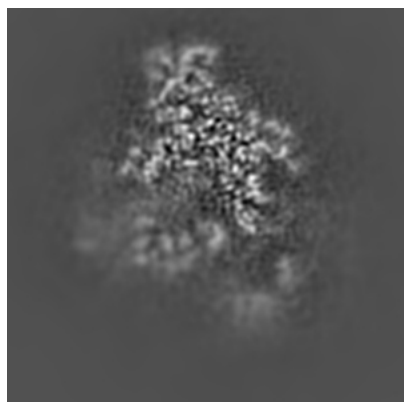


Z

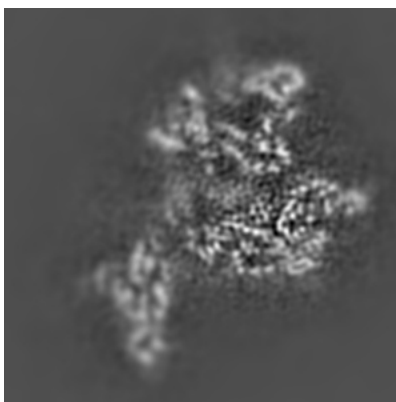
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

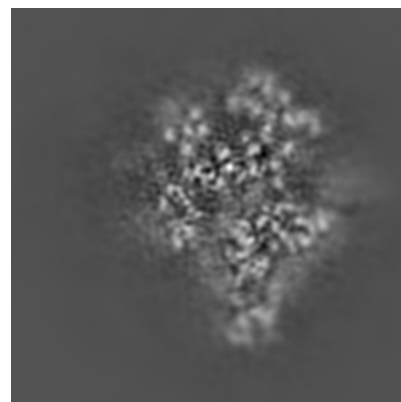
6.2.1 Primary map



X Index: 96



Y Index: 96

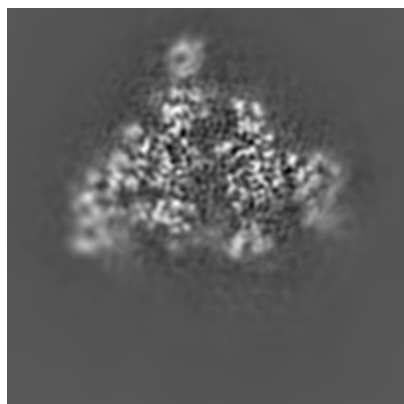


Z Index: 96

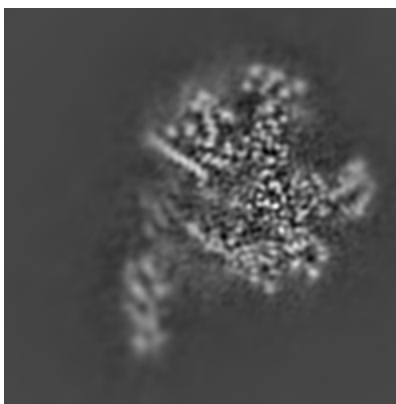
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

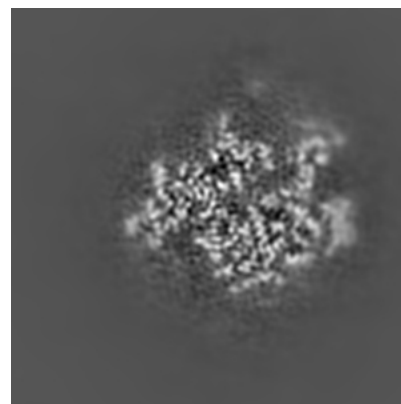
6.3.1 Primary map



X Index: 110



Y Index: 88

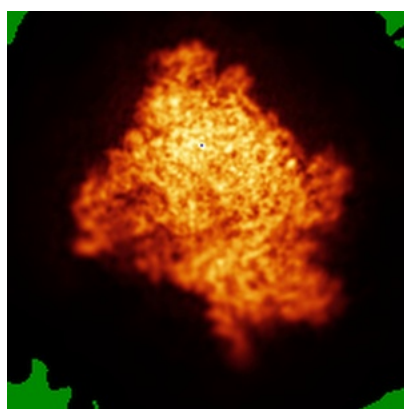


Z Index: 127

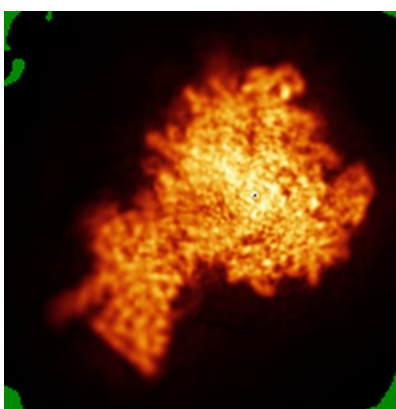
The images above show the largest variance slices of the map in three orthogonal directions.

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

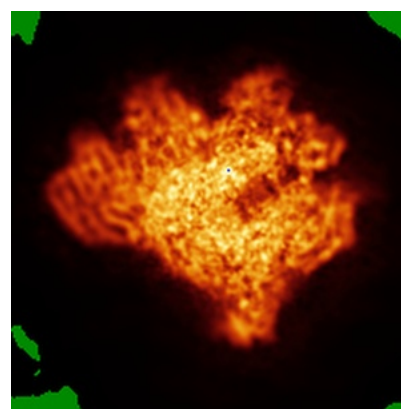
6.4.1 Primary map



X



Y

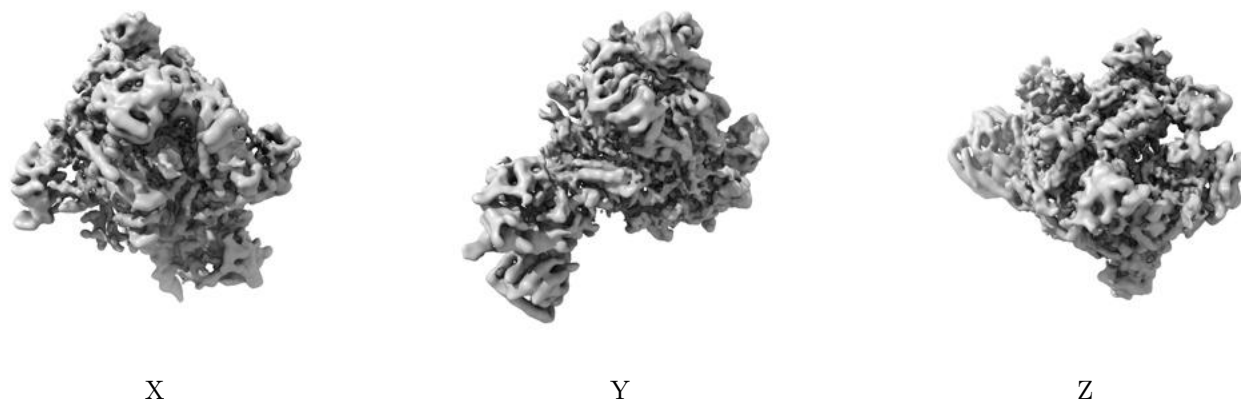


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

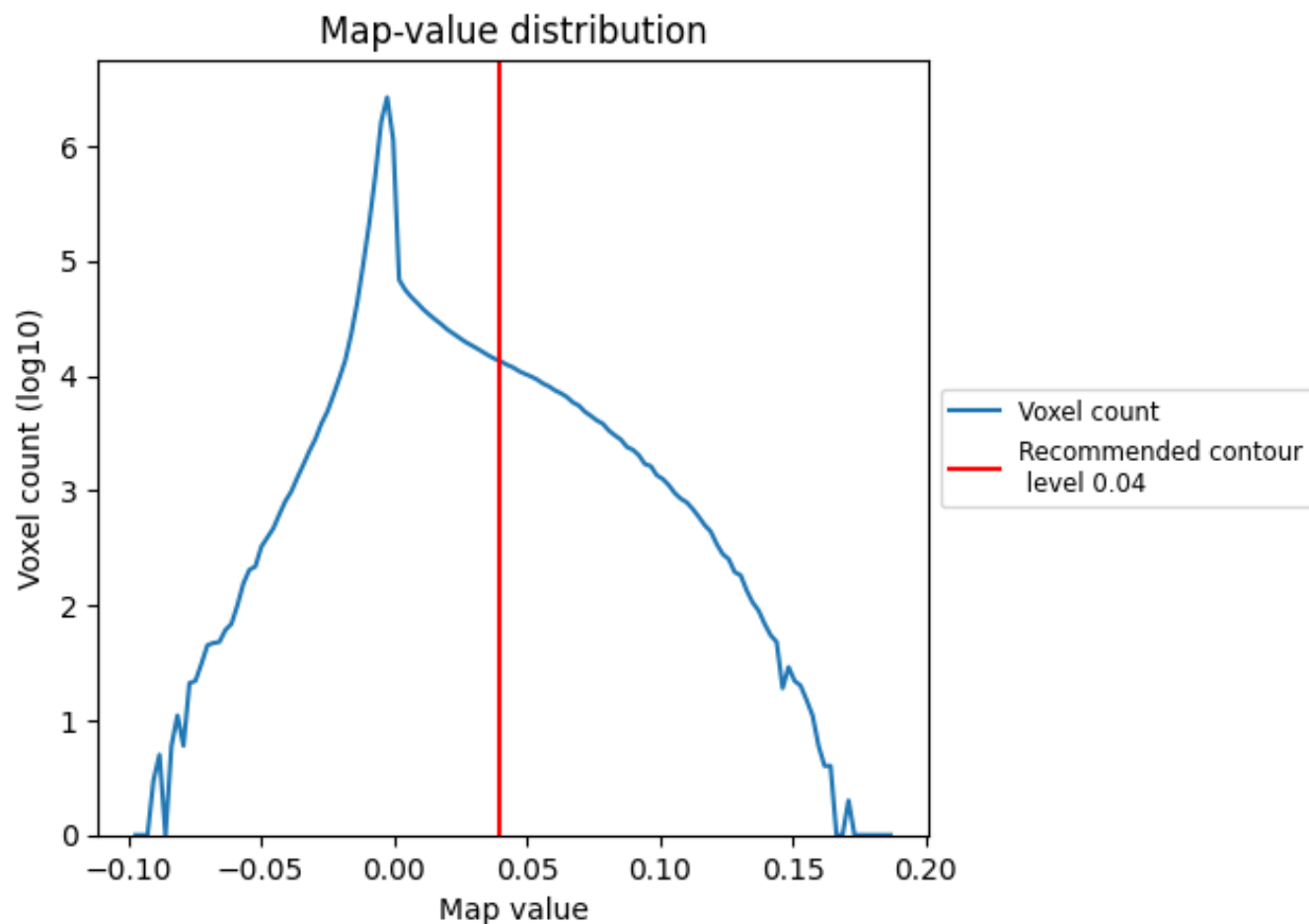
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

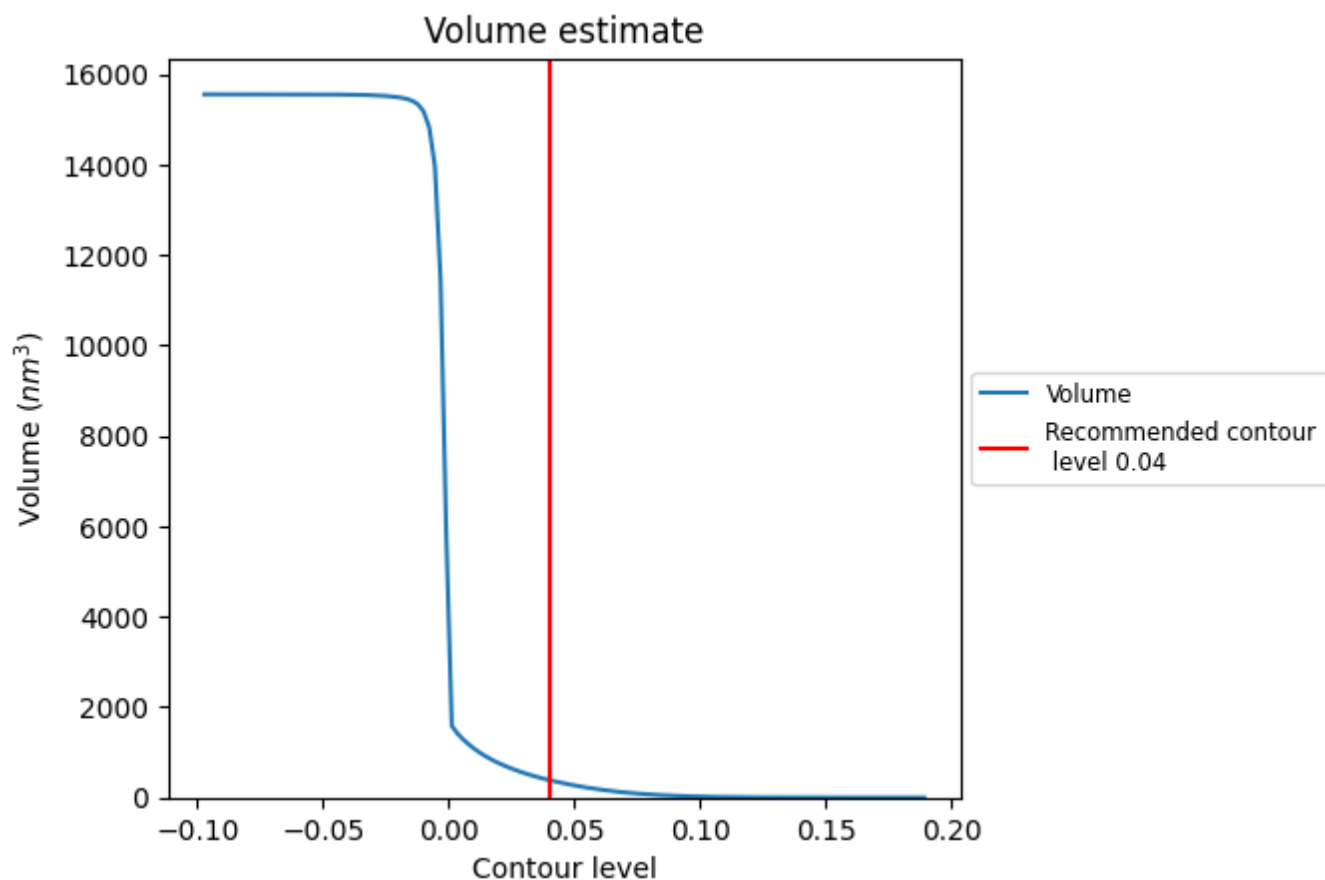
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

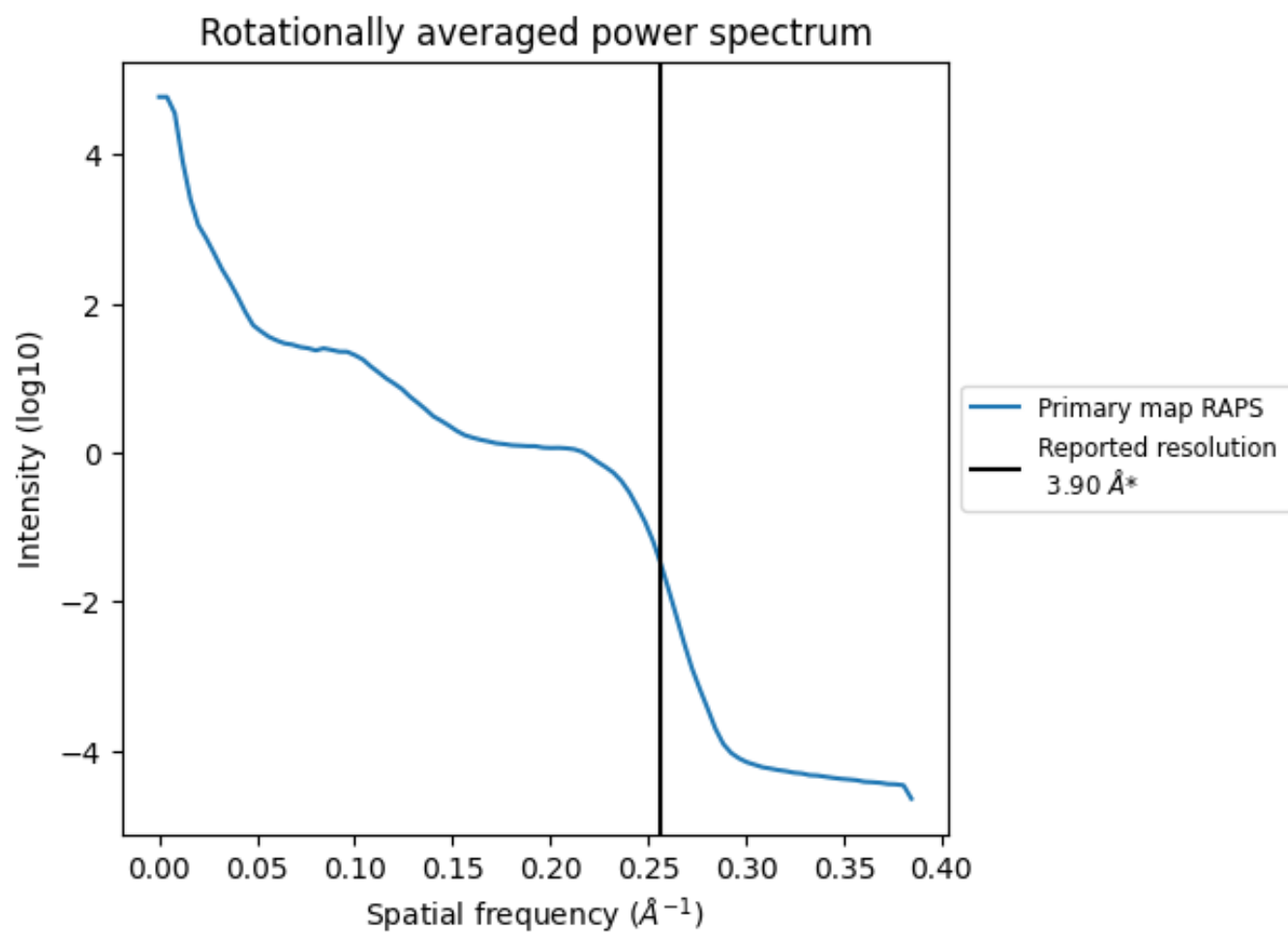
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 387 nm³; this corresponds to an approximate mass of 349 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

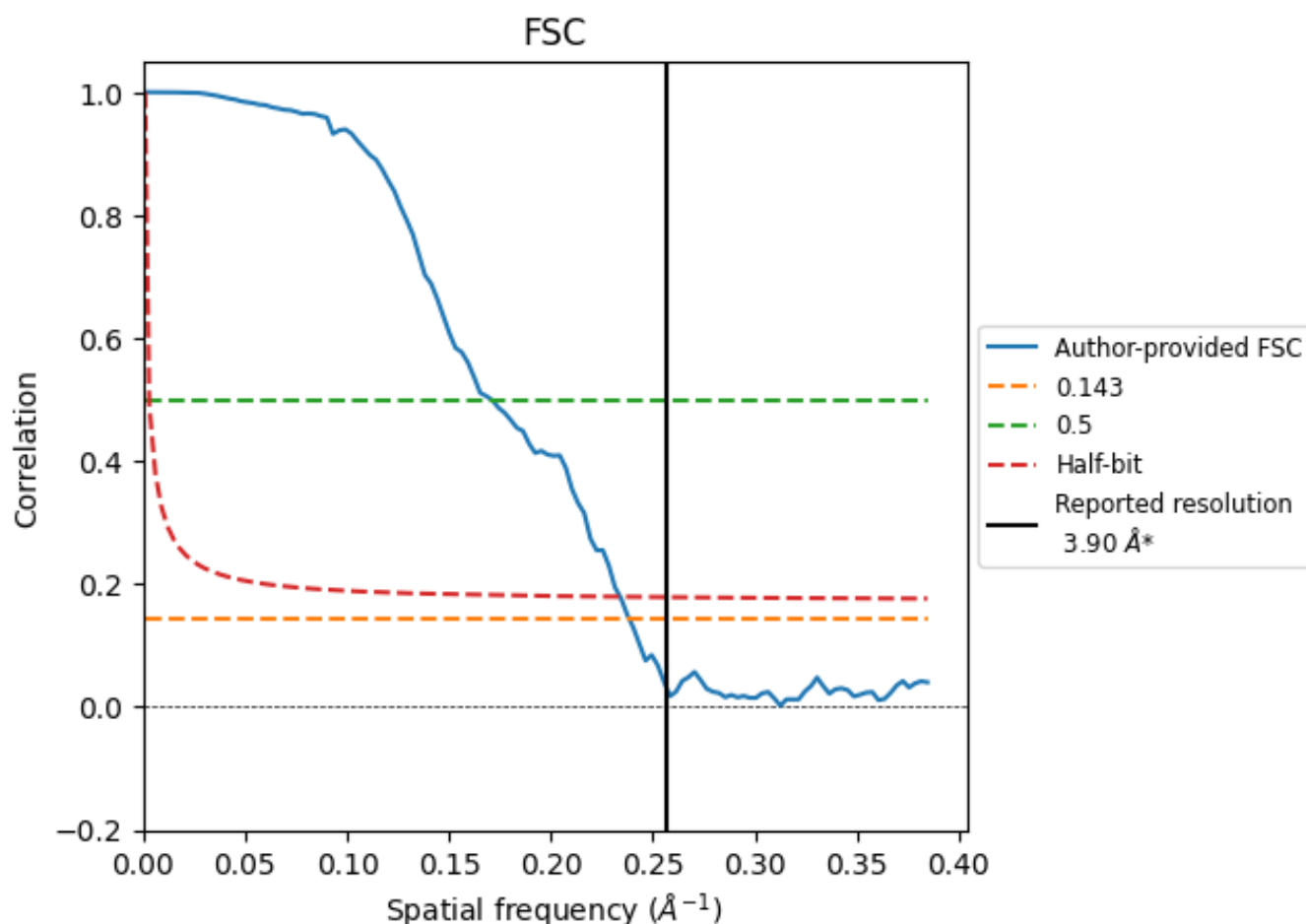


*Reported resolution corresponds to spatial frequency of 0.256 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.256 Å⁻¹

8.2 Resolution estimates [i](#)

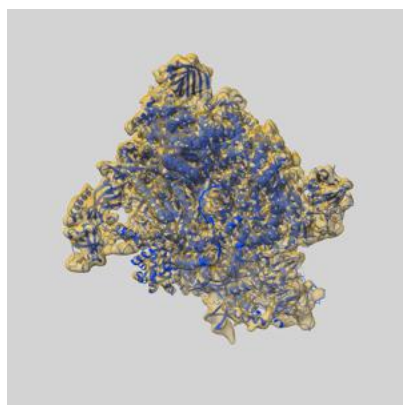
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.90	-	-
Author-provided FSC curve	4.19	5.85	4.28
Unmasked-calculated*	-	-	-

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

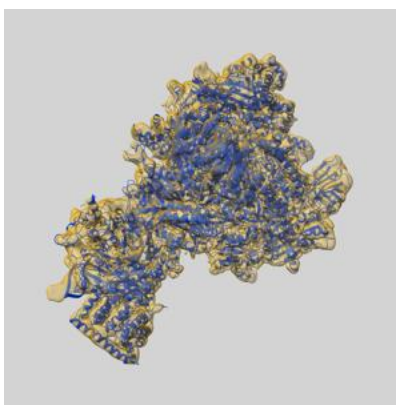
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8776 and PDB model 5W66. Per-residue inclusion information can be found in section [3](#) on page [9](#).

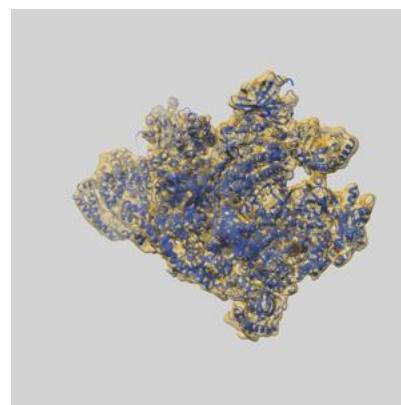
9.1 Map-model overlay [i](#)



X



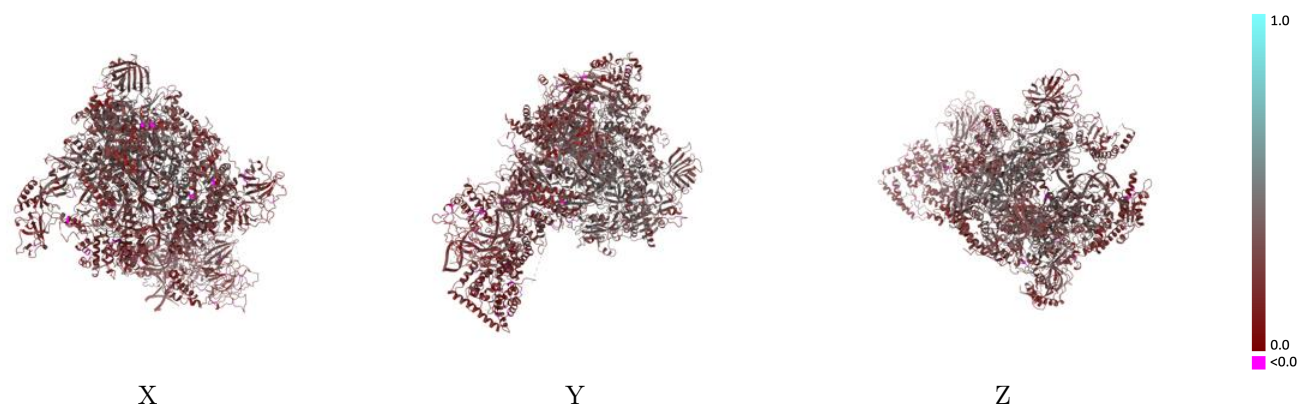
Y



Z

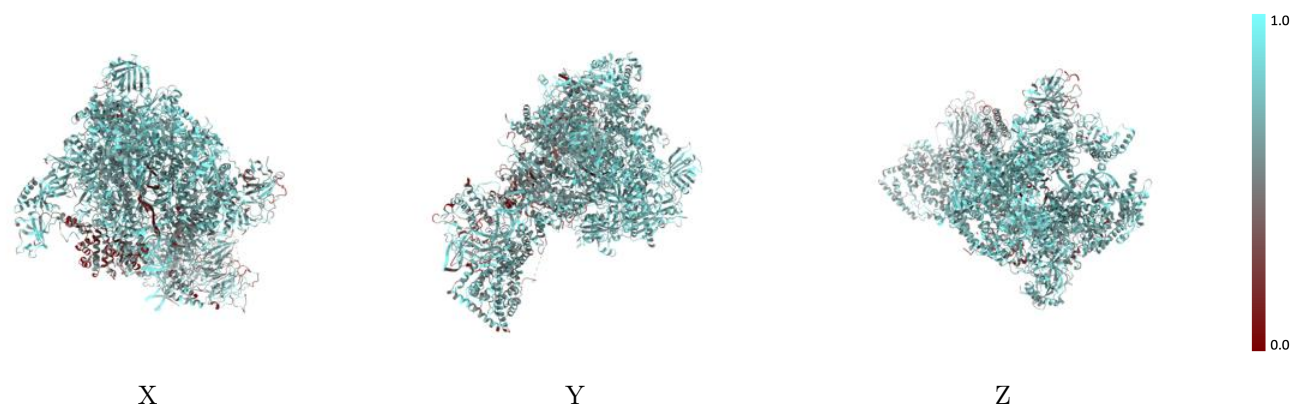
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



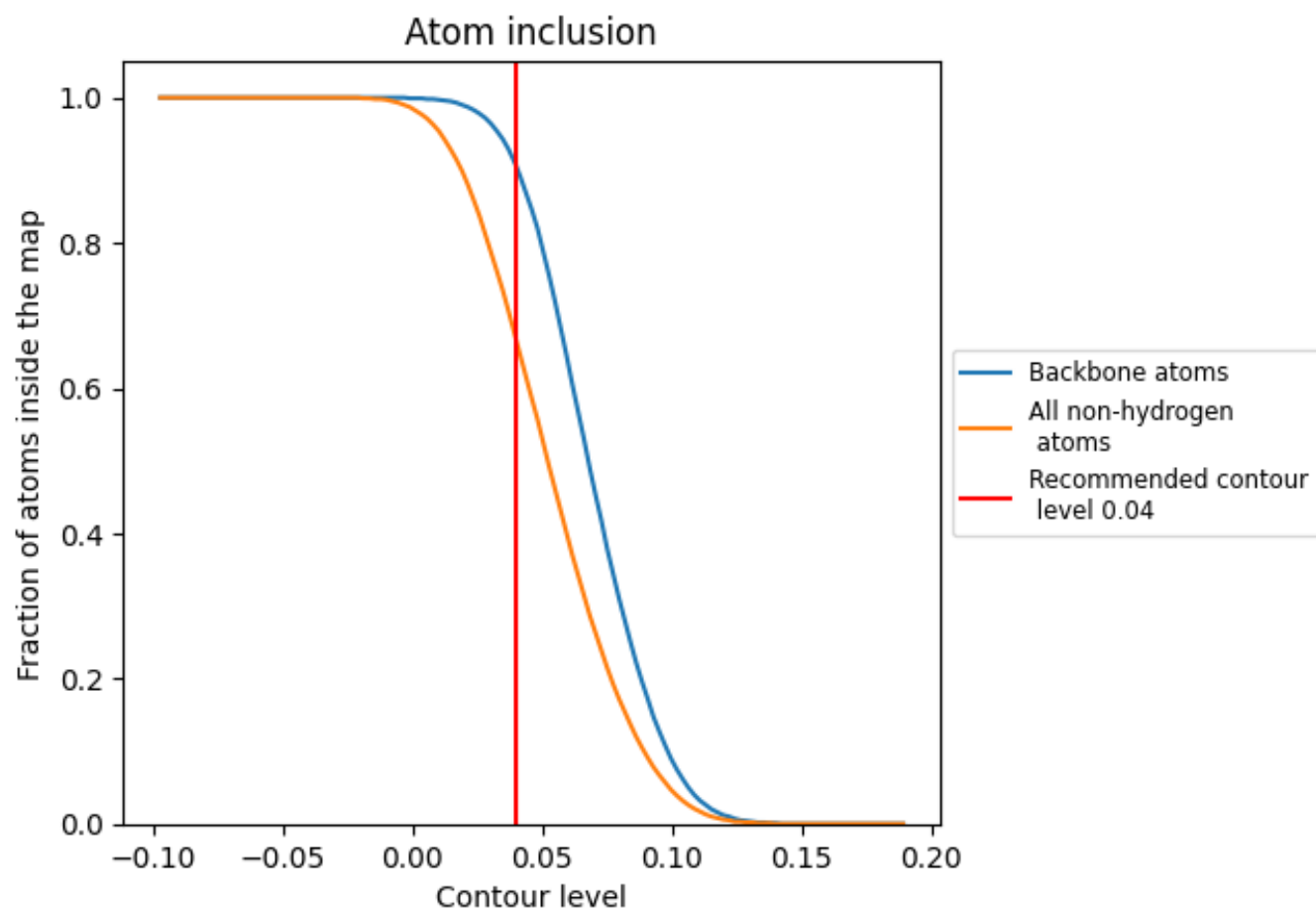
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion [i](#)



At the recommended contour level, 91% of all backbone atoms, 67% 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 (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6660	 0.2860
A	 0.7170	 0.3240
B	 0.7160	 0.3640
C	 0.7520	 0.3290
D	 0.6820	 0.2400
E	 0.7260	 0.2720
F	 0.7440	 0.3350
G	 0.6720	 0.2370
H	 0.7440	 0.2970
I	 0.6980	 0.2870
J	 0.7810	 0.3650
K	 0.7050	 0.3130
L	 0.7370	 0.3640
M	 0.4040	 0.2060
N	 0.5580	 0.2460
O	 0.5960	 0.2060
P	 0.6160	 0.1900
Q	 0.5880	 0.2170
R	 0.1970	 0.2090
S	 0.7670	 0.2810
T	 0.6930	 0.2580

