



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 12:41 AM UTC

PDB ID : 5W64 / pdb_00005w64
EMDB ID : EMD-8774
Title : RNA Polymerase I Initial Transcribing Complex State 1
Authors : Han, Y.; He, Y.
Deposited on : 2017-06-16
Resolution : 4.20 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

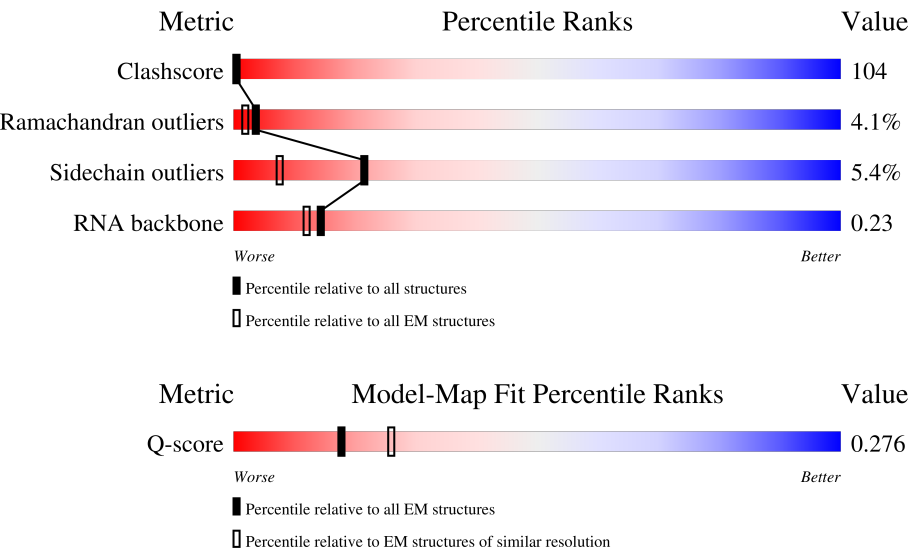
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 4.20 Å.

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



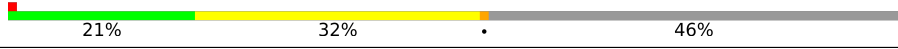
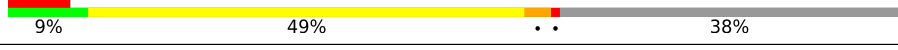
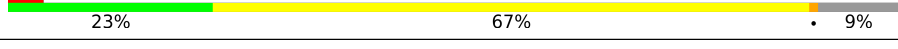
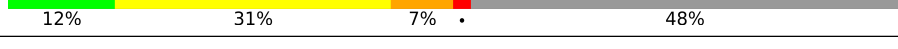
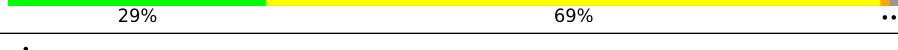
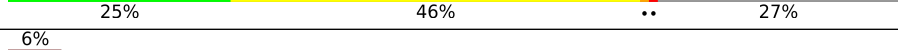
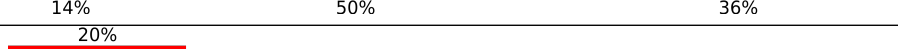
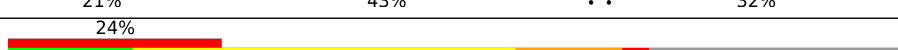
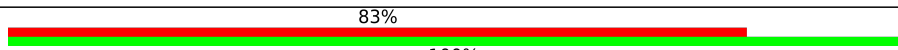
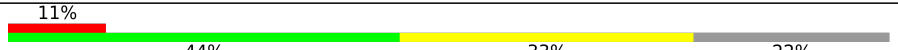
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	5410 (3.70 - 4.70)

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	30%55%12%
2	B	1203	32%64%
3	C	335	33%56%9%

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Mol	Chain	Length	Quality of chain
4	D	137	
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 46512 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
			2432	1544	417	463	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
			1760	1116	310	322	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
			1071	676	181	210	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
			811	506	132	168	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
			359	221	71	63	4		

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

Mol	Chain	Residues	Atoms				AltConf	Trace
13	M	106	Total	C	N	O	0	0
			841	534	139	168		

- 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	ALA	SEE REMARK 999	UNP P32786
O	4	UNK	GLU	SEE REMARK 999	UNP P32786
O	5	UNK	ASP	SEE REMARK 999	UNP P32786
O	6	UNK	ALA	SEE REMARK 999	UNP P32786
O	7	UNK	LEU	SEE REMARK 999	UNP P32786
O	8	UNK	ASP	SEE REMARK 999	UNP P32786
O	9	UNK	LEU	SEE REMARK 999	UNP P32786
O	10	UNK	HIS	SEE REMARK 999	UNP P32786
O	11	UNK	ILE	SEE REMARK 999	UNP P32786
O	12	UNK	VAL	SEE REMARK 999	UNP P32786
O	13	UNK	VAL	SEE REMARK 999	UNP P32786
O	14	UNK	LYS	SEE REMARK 999	UNP P32786
O	15	UNK	SER	SEE REMARK 999	UNP P32786
O	16	UNK	LEU	SEE REMARK 999	UNP P32786
O	17	UNK	LEU	SEE REMARK 999	UNP P32786
O	18	UNK	CYS	SEE REMARK 999	UNP P32786
O	19	UNK	ASP	SEE REMARK 999	UNP P32786
O	20	UNK	THR	SEE REMARK 999	UNP P32786
O	21	UNK	ALA	SEE REMARK 999	UNP P32786
O	22	UNK	ILE	SEE REMARK 999	UNP P32786
O	23	UNK	ARG	SEE REMARK 999	UNP P32786
O	24	UNK	TYR	SEE REMARK 999	UNP P32786
O	25	UNK	ILE	SEE REMARK 999	UNP P32786
O	26	UNK	SER	SEE REMARK 999	UNP P32786
O	27	UNK	ASP	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	42	Total	C	N	O	P	0	0
			875	417	168	249	41		

- 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		

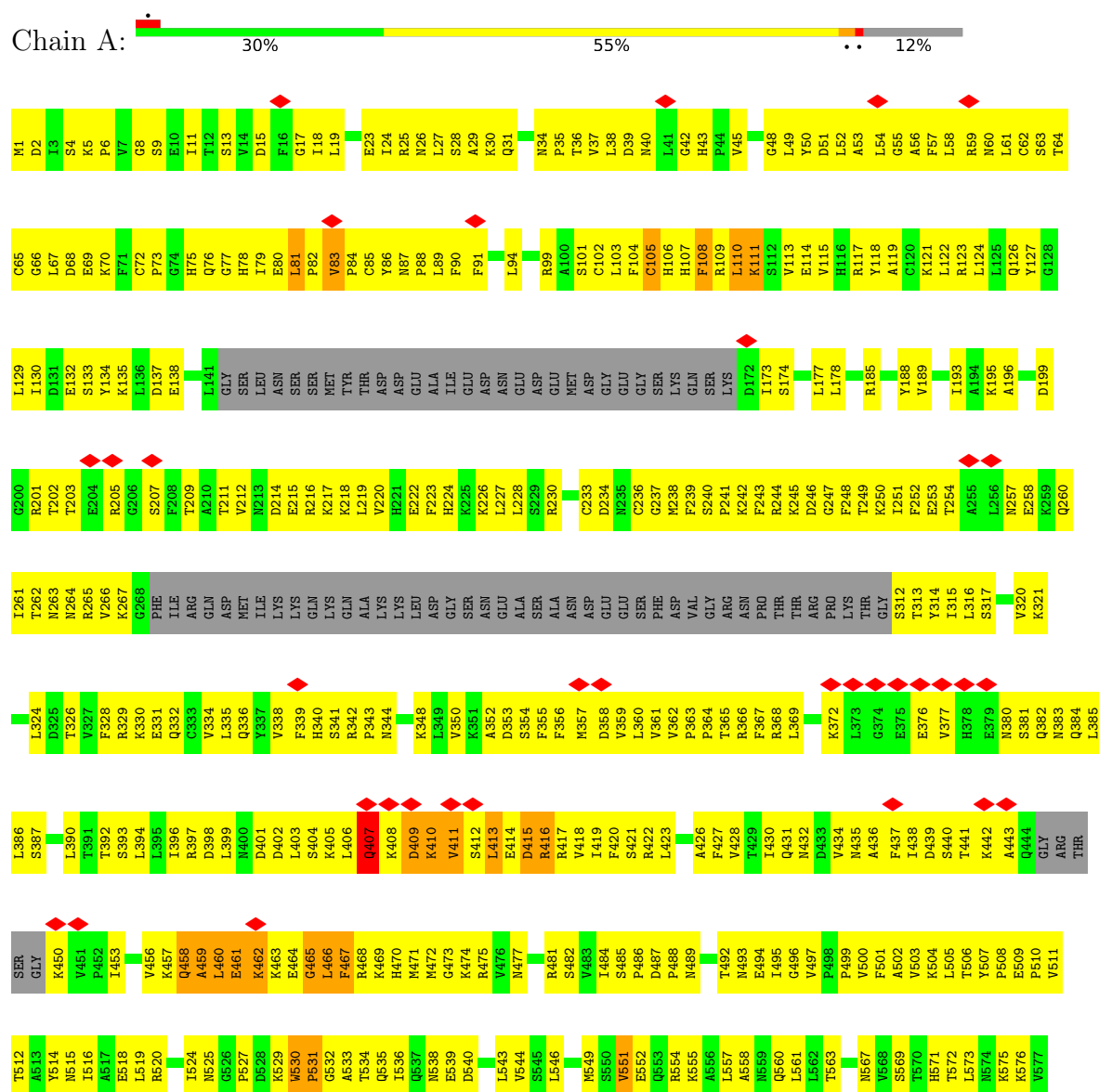
- Molecule 21 is ZINC ION (CCD ID: ZN) (formula: Zn).

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	

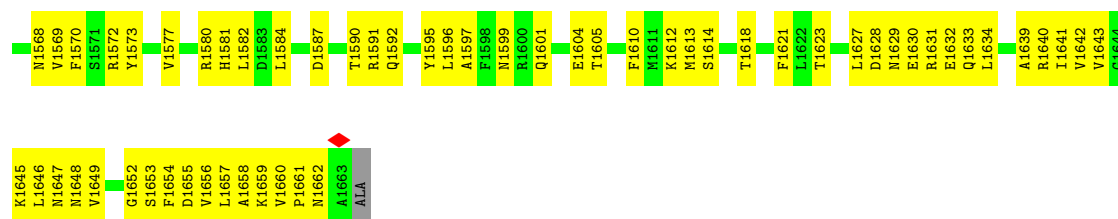
3 Residue-property plots

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

• Molecule 1: DNA-directed RNA polymerase I subunit RPA190

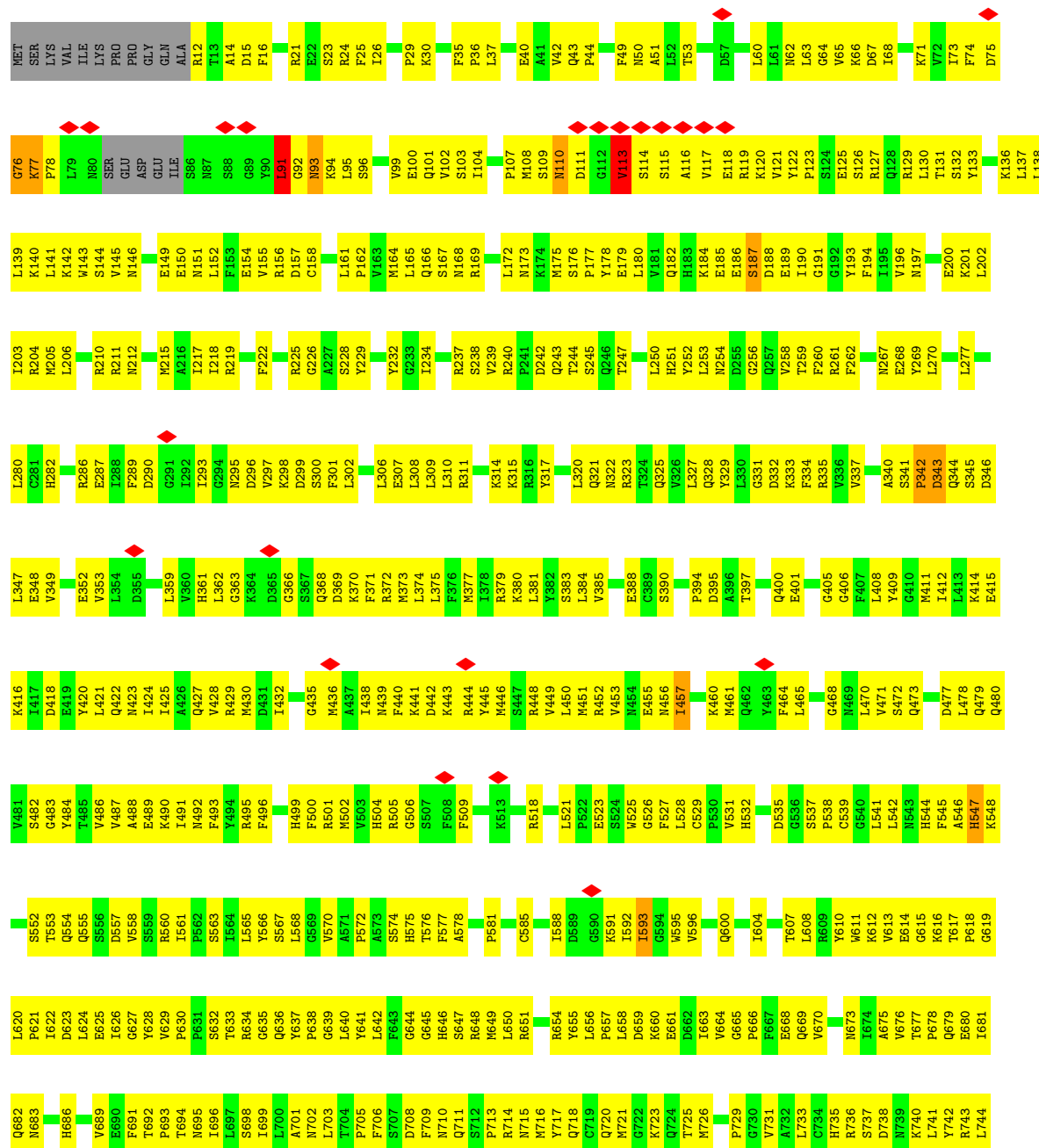


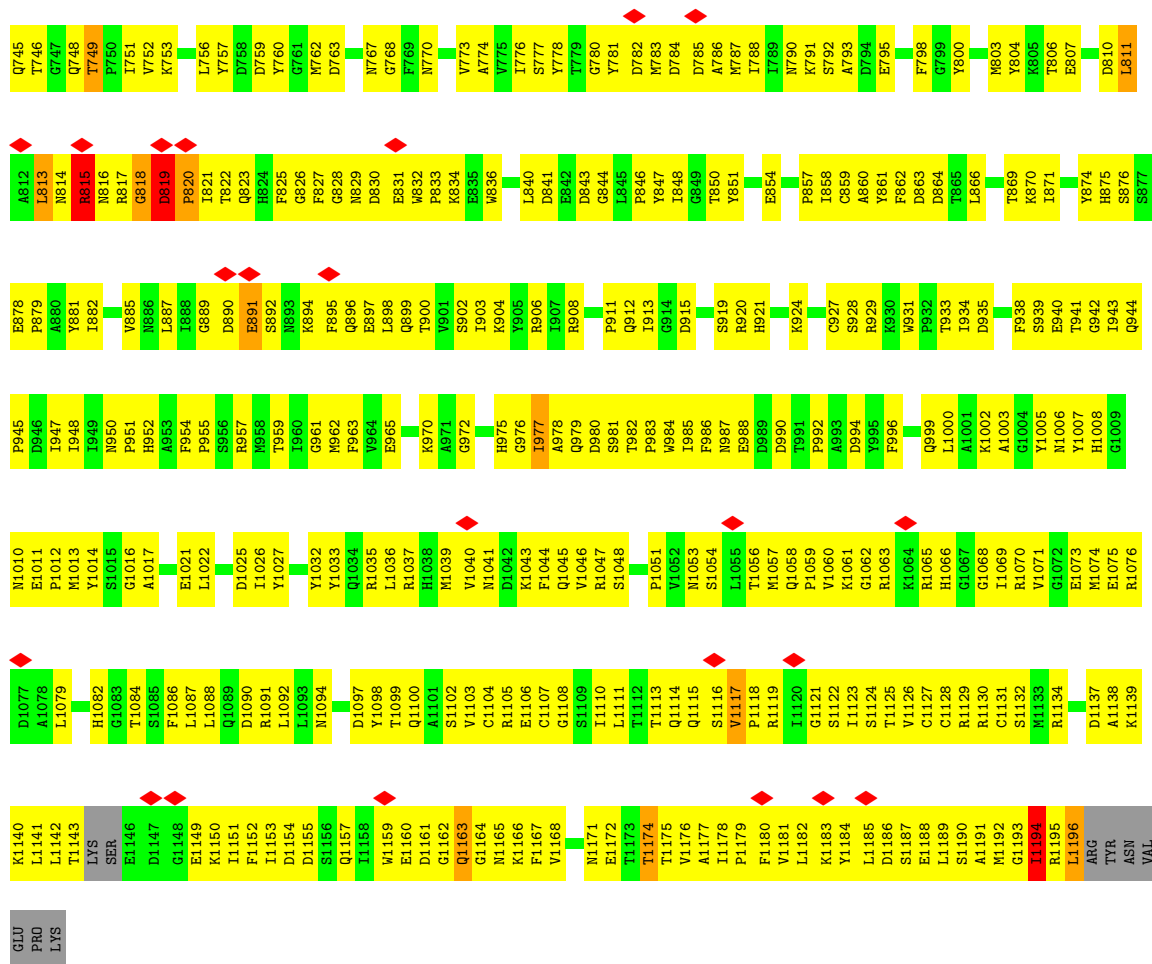




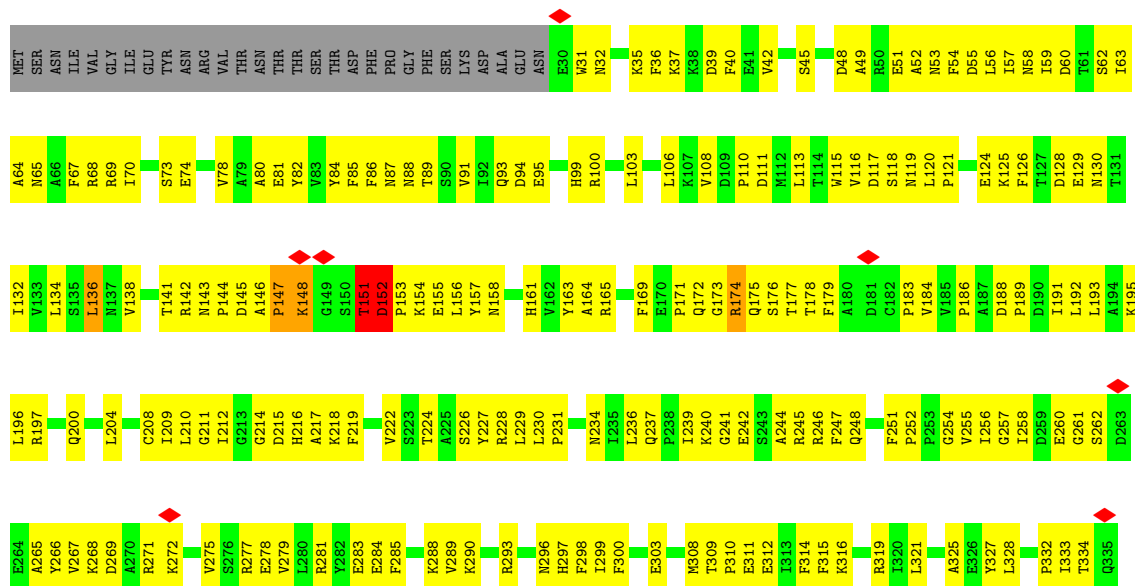
• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

Chain B: 32% 64%

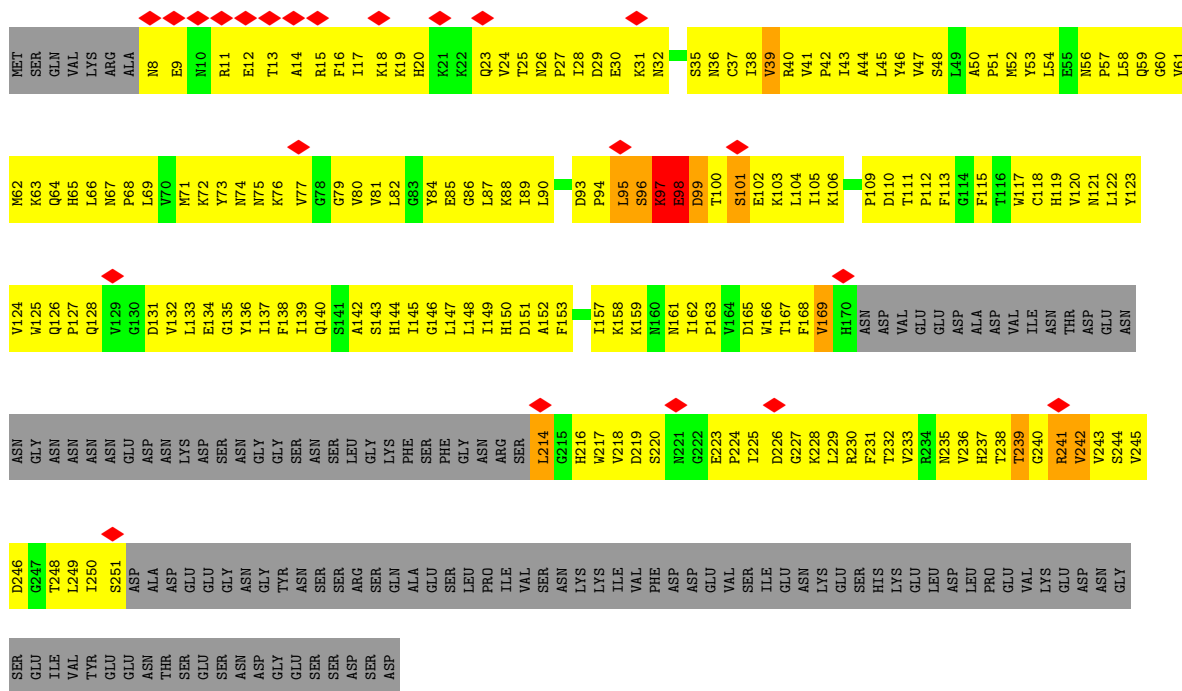




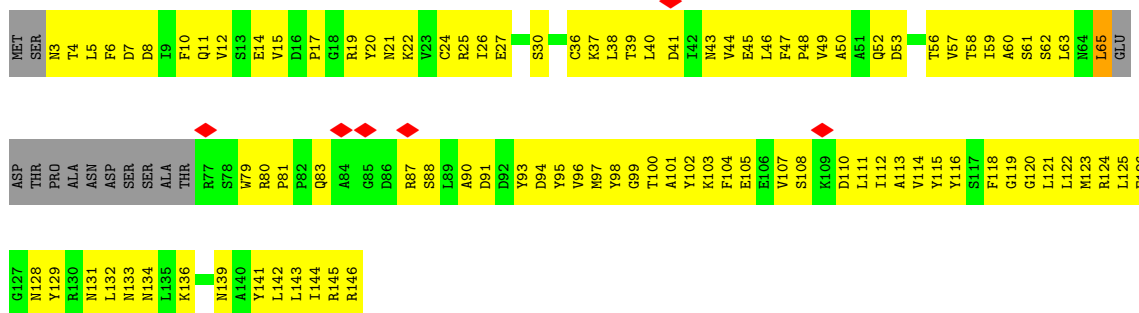
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1



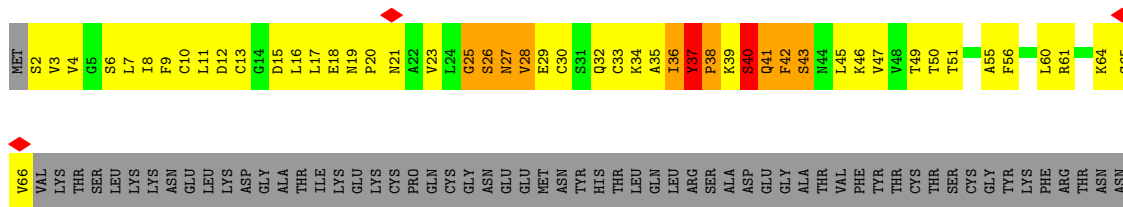




- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3



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



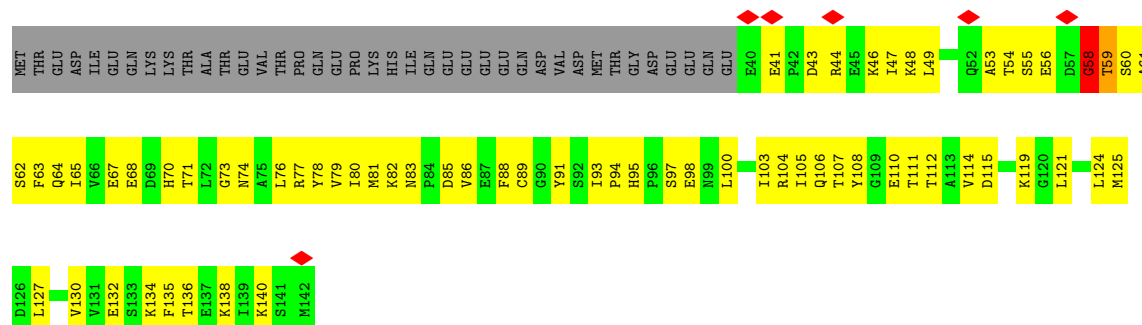
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5





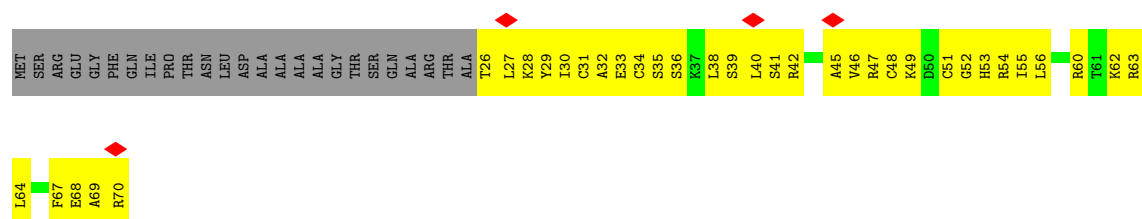
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain K: 25% 46% 27%



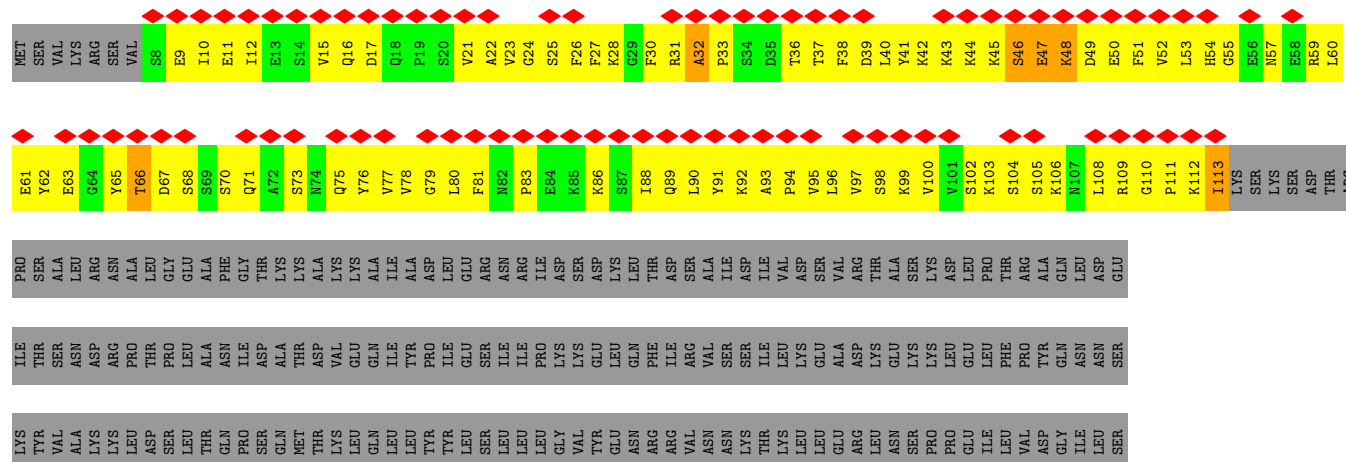
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain L: 6% 14% 50% 36%

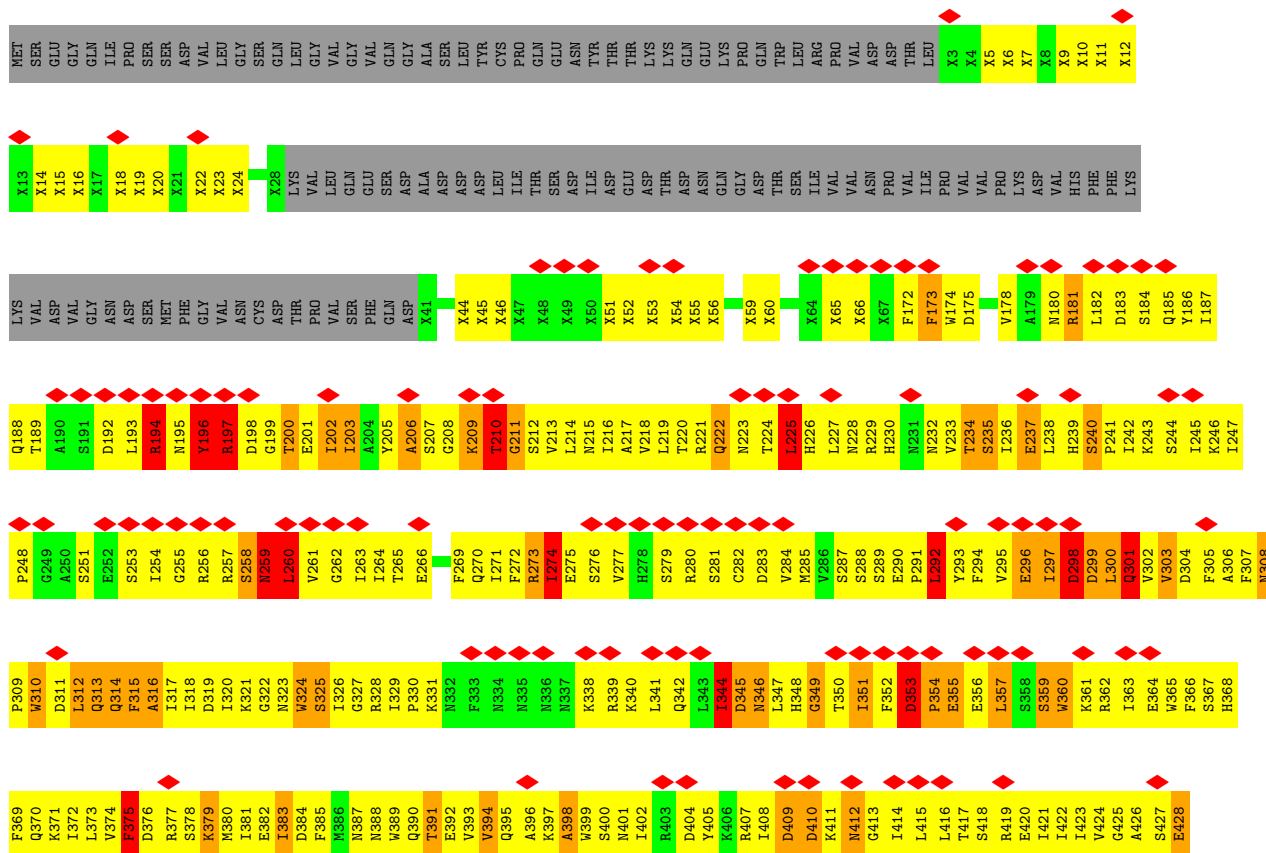


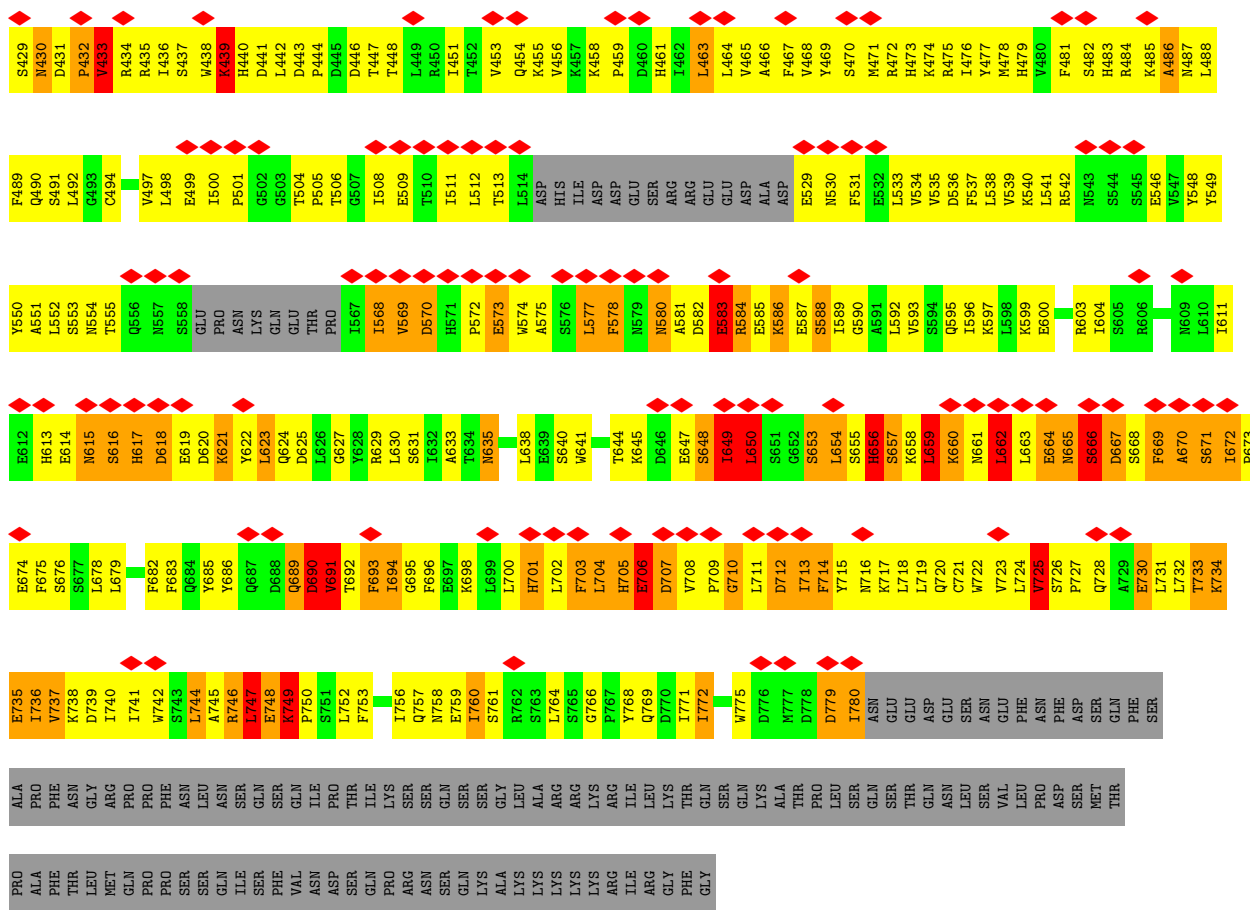
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain M: 5% 20% 19% 74%

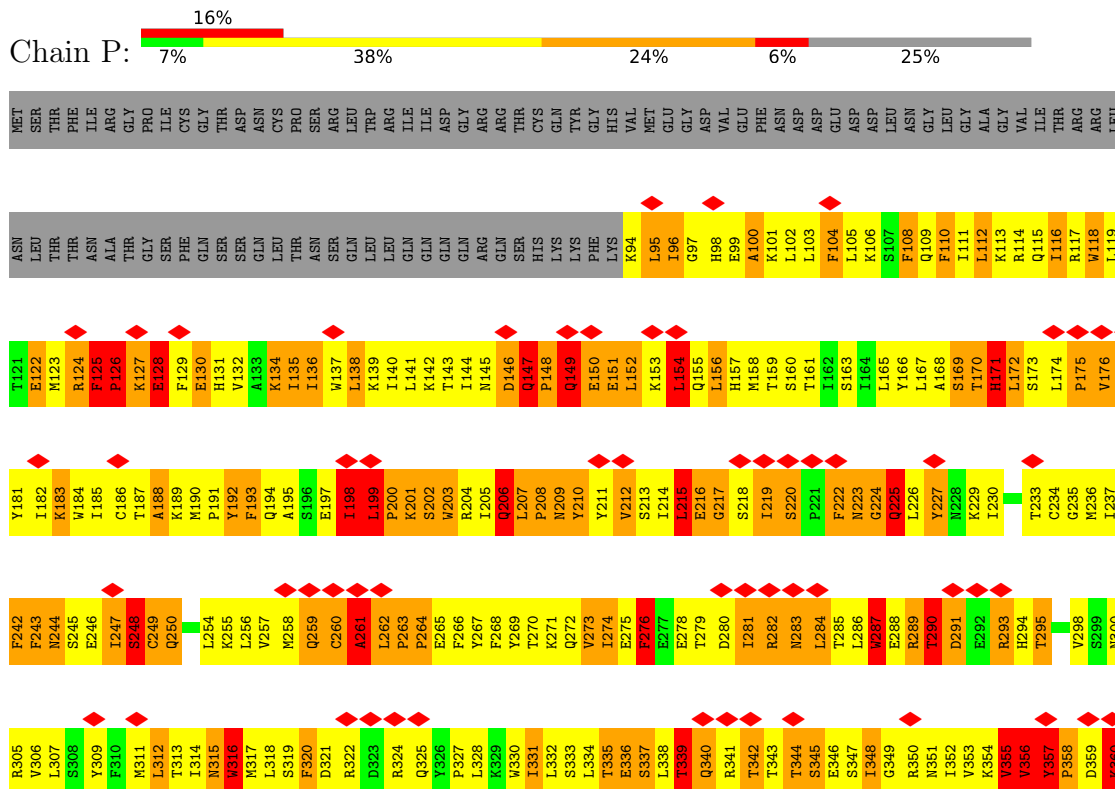


- Molecule 14: DNA-directed RNA polymerase I subunit RPA34



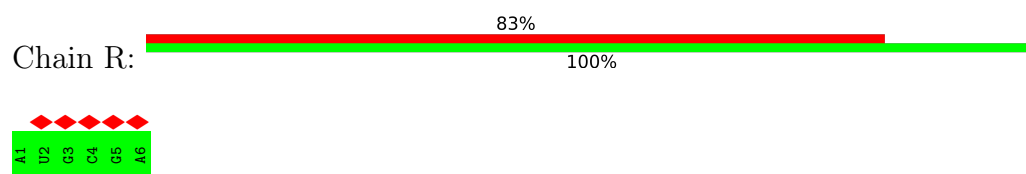


● Molecule 16: RNA polymerase I-specific transcription initiation factor RRN7

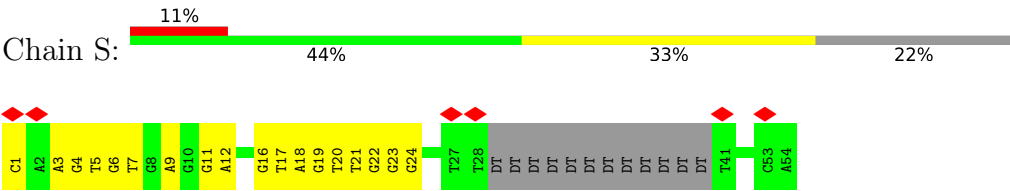




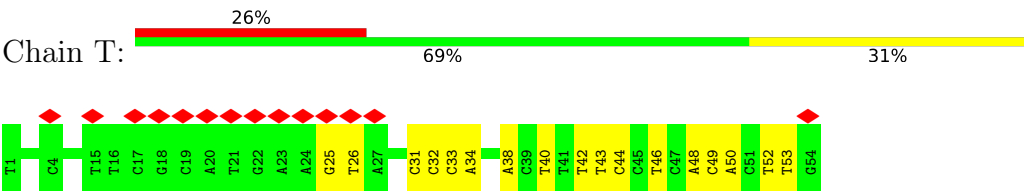
• Molecule 18: RNA



● 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	28297	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	0.199	Depositor
Minimum map value	-0.094	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 [i](#)

5.1 Standard geometry [i](#)

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	0.39	1/11752 (0.0%)	0.78	20/15870 (0.1%)
2	B	0.44	1/9556 (0.0%)	0.79	12/12916 (0.1%)
3	C	0.37	0/2484	0.73	3/3366 (0.1%)
4	D	0.34	0/473	0.71	2/641 (0.3%)
5	E	0.32	0/1796	0.68	0/2416
6	F	0.35	0/682	0.62	0/922
7	G	0.28	0/1630	0.68	2/2216 (0.1%)
8	H	0.33	0/1089	0.67	0/1474
9	I	0.35	0/485	1.13	4/657 (0.6%)
10	J	0.43	0/578	0.82	1/775 (0.1%)
11	K	0.37	0/822	0.73	4/1108 (0.4%)
12	L	0.35	0/361	0.72	0/478
13	M	0.25	0/857	0.69	1/1151 (0.1%)
14	N	0.23	0/1279	0.91	5/1724 (0.3%)
15	O	0.67	8/4902 (0.2%)	1.45	84/6641 (1.3%)
16	P	0.64	6/3316 (0.2%)	1.77	132/4477 (2.9%)
17	Q	0.75	1/2990 (0.0%)	1.52	42/4030 (1.0%)
18	R	0.31	0/142	0.86	0/220
19	S	0.49	0/984	0.84	0/1519
20	T	0.49	0/1206	0.82	2/1855 (0.1%)
All	All	0.48	17/47384 (0.0%)	1.02	314/64456 (0.5%)

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	78	PRO	N-CD	-10.66	1.32	1.47
15	O	573	GLU	CA-C	8.89	1.64	1.52
15	O	297	ILE	CA-C	8.64	1.63	1.53
1	A	460	LEU	CA-C	8.09	1.63	1.52
16	P	262	LEU	CA-C	7.85	1.62	1.52
16	P	511	HIS	CA-C	7.49	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	P	385	PHE	CA-C	7.13	1.64	1.52
16	P	210	TYR	CA-C	6.83	1.61	1.53
15	O	669	PHE	CA-C	6.63	1.60	1.53
15	O	660	LYS	CA-C	6.61	1.61	1.52
15	O	656	HIS	CA-C	6.29	1.61	1.52
15	O	706	GLU	CA-C	5.81	1.60	1.52
16	P	191	PRO	N-CD	5.75	1.55	1.47
16	P	496	GLU	CA-C	5.74	1.60	1.52
17	Q	301	SER	CA-C	5.48	1.60	1.52
15	O	310	TRP	CA-C	5.39	1.59	1.52
15	O	736	ILE	CA-C	5.30	1.60	1.52

All (314) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O	617	HIS	N-CA-C	-22.89	85.95	113.19
16	P	356	VAL	N-CA-C	-20.80	92.41	112.17
15	O	705	HIS	N-CA-C	-19.32	90.99	113.21
17	Q	152	ILE	N-CA-C	-18.82	95.13	113.20
2	B	77	LYS	CA-C-N	-17.61	100.39	120.11
2	B	77	LYS	C-N-CA	-17.61	100.39	120.11
15	O	737	VAL	N-CA-C	-17.07	94.03	110.42
16	P	125	PHE	CA-C-N	16.05	139.91	119.84
16	P	125	PHE	C-N-CA	16.05	139.91	119.84
16	P	104	PHE	N-CA-C	-15.88	94.07	111.07
16	P	110	PHE	N-CA-C	14.92	127.03	111.07
15	O	747	LEU	N-CA-C	14.55	127.45	108.24
16	P	193	PHE	N-CA-C	13.99	127.79	111.71
16	P	191	PRO	N-CA-C	-13.97	98.30	114.92
15	O	694	ILE	N-CA-C	13.93	128.15	108.23
15	O	209	LYS	N-CA-C	-13.85	93.57	112.12
1	A	408	LYS	N-CA-C	-13.74	95.78	111.03
15	O	733	THR	N-CA-C	12.62	126.42	111.02
9	I	27	ASN	N-CA-C	12.40	120.65	108.75
16	P	122	GLU	N-CA-C	11.55	124.97	111.11
17	Q	355	THR	CA-C-N	11.47	132.19	120.38
17	Q	355	THR	C-N-CA	11.47	132.19	120.38
1	A	407	GLN	N-CA-C	11.43	126.81	112.86
15	O	654	LEU	N-CA-C	-11.36	97.61	110.91
16	P	207	LEU	CA-C-N	11.35	134.03	119.84
16	P	207	LEU	C-N-CA	11.35	134.03	119.84
16	P	365	ASP	N-CA-C	-11.26	99.00	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	202	SER	N-CA-C	10.98	123.33	111.36
17	Q	358	PHE	N-CA-C	-10.74	99.58	111.07
14	N	25	ILE	CA-C-N	10.72	133.24	119.84
14	N	25	ILE	C-N-CA	10.72	133.24	119.84
1	A	460	LEU	N-CA-C	10.60	125.72	113.01
1	A	466	LEU	N-CA-C	10.57	124.87	111.24
15	O	657	SER	N-CA-C	10.52	129.69	107.70
16	P	506	LYS	N-CA-C	-10.51	99.52	110.97
16	P	116	ILE	N-CA-C	10.47	122.56	110.62
16	P	118	TRP	N-CA-C	-10.47	99.67	111.82
17	Q	242	ILE	CA-C-N	10.46	132.92	119.84
17	Q	242	ILE	C-N-CA	10.46	132.92	119.84
16	P	484	ALA	N-CA-C	-10.36	99.99	111.28
15	O	656	HIS	N-CA-C	10.31	132.76	110.80
16	P	199	LEU	N-CA-C	-10.29	87.06	109.81
17	Q	356	PRO	CA-C-N	-10.17	107.13	119.84
17	Q	356	PRO	C-N-CA	-10.17	107.13	119.84
16	P	416	ILE	N-CA-C	10.12	130.39	109.34
16	P	367	PHE	N-CA-C	9.98	122.16	111.28
16	P	290	THR	N-CA-CB	9.90	127.21	110.49
16	P	154	LEU	N-CA-C	9.87	124.86	113.02
17	Q	255	VAL	N-CA-C	9.78	120.31	110.82
15	O	300	LEU	N-CA-C	9.74	125.52	110.42
16	P	509	CYS	N-CA-C	9.47	122.47	111.11
15	O	297	ILE	CB-CA-C	-9.46	101.31	112.19
15	O	572	PRO	N-CA-C	-9.44	100.41	113.53
16	P	250	GLN	N-CA-C	-9.35	101.86	113.18
1	A	110	LEU	N-CA-C	9.23	123.28	110.35
16	P	128	GLU	N-CA-C	9.23	130.47	110.80
16	P	215	LEU	N-CA-C	9.23	120.84	108.38
16	P	138	LEU	N-CA-C	-9.16	101.27	111.07
3	C	152	ASP	CA-C-N	-9.15	108.41	119.84
3	C	152	ASP	C-N-CA	-9.15	108.41	119.84
16	P	136	ILE	N-CA-CB	9.14	121.25	110.55
16	P	203	TRP	N-CA-C	-9.12	101.41	111.36
1	A	405	LYS	N-CA-C	-8.87	101.58	111.07
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
15	O	210	THR	N-CA-C	-8.87	94.06	108.52
16	P	100	ALA	N-CA-C	-8.75	101.71	111.07
15	O	297	ILE	CA-C-O	8.69	128.83	120.14
17	Q	364	VAL	N-CA-C	-8.69	101.87	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O	346	ASN	N-CA-C	-8.67	94.19	108.67
16	P	491	PHE	N-CA-C	8.63	123.48	109.85
1	A	664	SER	CA-C-N	8.54	130.52	119.84
1	A	664	SER	C-N-CA	8.54	130.52	119.84
16	P	375	LEU	N-CA-C	8.51	120.18	111.07
16	P	207	LEU	O-C-N	8.49	125.44	121.53
16	P	243	PHE	N-CA-C	8.49	123.09	109.24
1	A	667	ARG	N-CA-C	8.47	122.05	109.59
16	P	172	LEU	N-CA-CB	-8.37	97.77	110.33
16	P	414	TYR	N-CA-C	-8.37	102.24	111.36
15	O	206	ALA	N-CA-C	-8.36	100.12	110.65
16	P	192	TYR	N-CA-C	8.34	125.04	111.37
16	P	493	ILE	N-CA-C	8.29	126.58	109.34
17	Q	147	GLN	N-CA-C	8.28	121.75	108.41
9	I	27	ASN	N-CA-CB	-8.25	96.55	110.49
15	O	486	ALA	N-CA-C	-8.17	93.39	110.80
16	P	300	ASN	CA-C-N	-8.16	109.83	121.99
16	P	300	ASN	C-N-CA	-8.16	109.83	121.99
17	Q	257	ILE	N-CA-CB	8.11	123.28	110.54
7	G	98	GLU	N-CA-CB	-8.10	98.93	113.10
16	P	108	PHE	N-CA-C	-8.06	102.44	111.07
16	P	217	GLY	N-CA-C	7.99	128.38	115.67
16	P	212	VAL	N-CA-C	7.99	119.73	110.62
2	B	819	ASP	CA-C-N	7.98	129.31	120.45
2	B	819	ASP	C-N-CA	7.98	129.31	120.45
11	K	58	GLY	N-CA-C	7.92	131.94	113.18
16	P	171	HIS	N-CA-C	-7.91	102.61	111.07
17	Q	302	ARG	N-CA-C	-7.90	93.96	110.80
16	P	274	ILE	N-CA-C	-7.90	102.64	110.30
17	Q	232	ALA	N-CA-C	7.90	120.59	111.11
17	Q	234	LYS	N-CA-C	-7.90	102.61	111.14
16	P	163	SER	N-CA-C	-7.89	102.77	111.36
1	A	460	LEU	CA-C-O	7.88	129.29	119.05
16	P	504	ARG	N-CA-C	7.87	120.62	111.02
16	P	104	PHE	N-CA-CB	7.86	121.41	110.01
16	P	506	LYS	N-CA-CB	7.81	121.31	109.91
16	P	147	GLN	CA-C-N	7.77	129.55	119.84
16	P	147	GLN	C-N-CA	7.77	129.55	119.84
15	O	196	TYR	N-CA-C	7.71	127.23	110.80
15	O	391	THR	N-CA-CB	-7.65	99.15	111.24
16	P	98	HIS	N-CA-C	7.63	120.27	111.11
16	P	386	LEU	CA-C-N	7.53	129.26	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	P	386	LEU	C-N-CA	7.53	129.26	119.84
16	P	188	ALA	N-CA-C	-7.51	101.32	111.54
16	P	295	THR	N-CA-CB	-7.49	100.61	111.70
17	Q	234	LYS	N-CA-CB	7.38	120.78	110.07
9	I	25	GLY	N-CA-C	7.35	130.59	113.18
11	K	56	GLU	N-CA-C	-7.29	104.91	113.88
15	O	578	PHE	N-CA-C	7.27	119.16	110.44
15	O	703	PHE	N-CA-C	-7.24	103.33	111.07
16	P	314	ILE	N-CA-C	7.23	117.95	110.36
15	O	577	LEU	N-CA-C	7.22	121.00	111.75
2	B	78	PRO	CA-N-CD	7.22	122.11	112.00
15	O	623	LEU	N-CA-C	7.18	118.76	111.07
15	O	670	ALA	N-CA-C	-7.18	95.52	110.80
16	P	100	ALA	N-CA-CB	7.16	120.40	110.01
16	P	245	SER	CB-CA-C	-7.13	96.23	110.42
16	P	130	GLU	N-CA-C	7.12	118.68	111.07
2	B	76	GLY	N-CA-C	-7.07	96.43	113.18
16	P	482	HIS	N-CA-C	7.07	118.63	111.07
16	P	511	HIS	CA-C-O	7.06	129.67	121.34
17	Q	343	GLN	N-CA-C	-7.06	103.30	112.68
1	A	667	ARG	N-CA-CB	-7.04	98.86	109.71
16	P	135	ILE	CB-CA-C	-7.04	99.75	111.29
15	O	298	ASP	N-CA-CB	-7.01	98.63	110.49
16	P	127	LYS	N-CA-C	-7.01	103.33	110.97
16	P	146	ASP	N-CA-C	6.99	118.90	111.28
17	Q	439	GLU	N-CA-C	-6.98	103.60	111.07
16	P	210	TYR	CA-C-O	6.97	129.23	120.65
16	P	498	LEU	N-CA-CB	6.97	121.14	109.78
14	N	129	ALA	N-CA-C	6.90	120.83	108.47
16	P	244	ASN	N-CA-CB	6.90	120.48	110.06
16	P	207	LEU	N-CA-C	-6.88	96.53	111.53
15	O	296	GLU	N-CA-C	6.87	121.12	112.87
17	Q	212	HIS	N-CA-C	6.85	119.37	111.02
16	P	489	VAL	N-CA-C	6.84	117.59	110.62
15	O	728	GLN	N-CA-C	6.82	118.50	108.14
15	O	570	ASP	N-CA-C	6.80	121.58	113.28
16	P	417	PHE	CA-C-N	6.79	128.33	119.84
16	P	417	PHE	C-N-CA	6.79	128.33	119.84
2	B	457	ILE	N-CA-C	-6.78	103.08	112.50
17	Q	264	SER	N-CA-C	6.78	119.99	107.99
15	O	660	LYS	CA-C-O	6.76	128.25	120.00
15	O	656	HIS	CA-C-N	-6.75	113.23	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O	656	HIS	C-N-CA	-6.75	113.23	122.95
16	P	202	SER	N-CA-CB	-6.74	100.18	110.16
15	O	235	SER	N-CA-C	-6.71	98.04	109.24
15	O	736	ILE	CB-CA-C	-6.69	93.42	111.34
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	301	GLN	N-CA-C	-6.67	96.58	110.80
15	O	573	GLU	CA-C-O	6.59	129.94	120.51
16	P	385	PHE	CA-C-O	6.57	130.36	121.89
9	I	40	SER	N-CA-CB	6.56	121.58	110.49
16	P	288	GLU	N-CA-C	6.56	120.53	110.36
15	O	208	GLY	CA-C-N	6.55	132.25	122.17
15	O	208	GLY	C-N-CA	6.55	132.25	122.17
17	Q	233	TYR	N-CA-C	6.53	120.51	112.54
16	P	327	PRO	N-CA-C	6.53	121.46	111.15
2	B	78	PRO	N-CA-CB	-6.52	95.56	103.45
16	P	172	LEU	N-CA-C	6.51	121.43	112.90
1	A	465	GLY	N-CA-C	6.51	122.78	111.78
16	P	384	GLN	N-CA-C	6.50	122.01	113.30
16	P	388	THR	N-CA-C	-6.49	103.90	112.34
16	P	357	TYR	CA-C-N	-6.48	111.73	119.84
16	P	357	TYR	C-N-CA	-6.48	111.73	119.84
16	P	473	LYS	N-CA-C	-6.47	104.15	111.07
15	O	439	LYS	N-CA-C	6.46	118.59	108.96
16	P	218	SER	N-CA-C	6.46	118.40	111.36
15	O	383	ILE	N-CA-C	6.44	117.40	108.12
17	Q	424	PHE	CA-C-N	6.43	129.76	120.38
17	Q	424	PHE	C-N-CA	6.43	129.76	120.38
15	O	260	LEU	N-CA-C	6.41	118.61	110.33
15	O	730	GLU	N-CA-C	6.41	120.71	113.02
16	P	238	HIS	N-CA-C	-6.38	103.12	111.74
17	Q	207	ASN	N-CA-CB	6.38	121.83	110.80
1	A	664	SER	N-CA-C	-6.34	95.79	109.81
15	O	257	ARG	CB-CA-C	-6.34	107.52	115.89
15	O	588	SER	N-CA-C	6.33	118.18	111.28
1	A	467	PHE	N-CA-C	6.32	118.98	111.33
16	P	210	TYR	CB-CA-C	-6.32	101.30	111.28
17	Q	293	ILE	CB-CA-C	6.29	121.61	111.29
15	O	353	ASP	CA-C-N	6.28	127.69	119.84
15	O	353	ASP	C-N-CA	6.28	127.69	119.84
15	O	653	SER	N-CA-C	6.27	120.26	112.24
15	O	659	LEU	N-CA-C	-6.26	97.47	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	458	GLN	N-CA-C	-6.22	101.05	110.70
17	Q	360	GLU	N-CA-C	6.22	121.81	113.72
15	O	621	LYS	N-CA-C	-6.22	104.61	111.82
17	Q	362	ALA	N-CA-C	6.19	123.99	110.80
16	P	138	LEU	N-CA-CB	6.18	118.98	110.01
16	P	239	PHE	N-CA-C	6.18	118.01	111.28
17	Q	150	GLN	N-CA-C	6.16	118.35	109.48
16	P	331	ILE	N-CA-C	6.16	116.90	110.62
15	O	259	ASN	N-CA-C	6.14	123.88	110.80
15	O	662	LEU	N-CA-C	-6.13	105.73	112.72
17	Q	284	PHE	N-CA-C	6.12	117.97	109.15
16	P	248	SER	N-CA-C	-6.08	97.84	110.80
15	O	208	GLY	O-C-N	6.08	128.75	122.79
16	P	289	ARG	N-CA-C	6.08	123.75	110.80
17	Q	302	ARG	N-CA-CB	6.05	120.71	110.49
10	J	45	CYS	N-CA-C	-6.02	104.80	111.36
16	P	483	ILE	CB-CA-C	-6.02	103.91	112.22
16	P	484	ALA	N-CA-CB	6.01	118.96	110.12
16	P	117	ARG	N-CA-C	6.00	118.78	111.82
16	P	222	PHE	N-CA-C	5.99	118.17	108.41
16	P	496	GLU	N-CA-C	5.99	123.55	110.80
15	O	575	ALA	N-CA-C	5.90	123.36	110.80
1	A	666	VAL	N-CA-CB	-5.84	101.60	111.23
16	P	99	GLU	N-CA-C	5.82	118.41	111.71
14	N	130	PRO	N-CA-C	-5.82	102.01	110.80
16	P	293	ARG	N-CA-C	5.82	119.64	112.54
16	P	384	GLN	CB-CA-C	-5.80	100.37	110.17
16	P	383	LYS	N-CA-C	5.79	120.38	112.04
16	P	498	LEU	N-CA-C	-5.79	101.82	111.37
11	K	58	GLY	CA-C-N	-5.78	110.50	121.54
11	K	58	GLY	C-N-CA	-5.78	110.50	121.54
16	P	118	TRP	N-CA-CB	5.78	119.23	110.28
20	T	25	DG	C4'-C3'-O3'	5.78	118.66	110.00
17	Q	389	ASN	N-CA-C	-5.76	105.27	112.93
7	G	98	GLU	N-CA-C	5.74	121.84	113.40
16	P	447	ALA	N-CA-C	-5.72	104.42	111.40
16	P	242	PHE	N-CA-C	-5.72	105.19	111.82
17	Q	424	PHE	N-CA-C	5.71	119.86	113.01
16	P	135	ILE	N-CA-C	5.70	121.20	109.34
16	P	511	HIS	CB-CA-C	-5.70	101.71	111.46
16	P	471	ALA	N-CA-C	5.67	117.46	111.28
15	O	625	ASP	N-CA-C	-5.65	104.81	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	O	682	PHE	CA-CB-CG	5.64	119.44	113.80
16	P	206	GLN	CB-CA-C	5.62	121.61	110.42
15	O	583	GLU	N-CA-CB	-5.62	101.00	110.49
2	B	78	PRO	N-CD-CG	-5.61	94.78	103.20
15	O	181	ARG	N-CA-C	5.61	117.51	107.80
16	P	367	PHE	CB-CA-C	-5.57	101.55	110.79
17	Q	304	HIS	N-CA-C	5.57	122.65	110.80
15	O	660	LYS	N-CA-C	5.54	120.16	112.45
15	O	274	ILE	N-CA-C	-5.53	97.84	109.34
16	P	276	PHE	N-CA-C	5.53	122.57	110.80
14	N	25	ILE	N-CA-C	5.52	120.80	108.88
15	O	586	LYS	N-CA-CB	5.51	119.80	110.49
16	P	188	ALA	CA-C-N	-5.49	112.92	120.28
16	P	188	ALA	C-N-CA	-5.49	112.92	120.28
15	O	736	ILE	CA-C-O	5.49	126.22	119.58
2	B	78	PRO	N-CA-C	-5.49	103.49	111.33
16	P	373	GLU	N-CA-C	-5.44	99.22	110.80
15	O	734	LYS	CA-C-O	5.41	125.62	119.18
15	O	657	SER	N-CA-CB	-5.39	102.08	110.87
15	O	433	VAL	N-CA-C	5.39	120.55	109.34
15	O	313	GLN	N-CA-C	-5.38	101.48	109.11
17	Q	278	TYR	N-CA-C	5.37	117.74	110.06
15	O	575	ALA	N-CA-CB	-5.37	101.42	110.49
16	P	315	ASN	N-CA-C	5.36	118.28	111.69
15	O	173	PHE	N-CA-C	-5.34	106.61	113.02
16	P	112	LEU	N-CA-C	-5.33	105.47	111.28
15	O	712	ASP	N-CA-C	-5.32	105.18	110.97
16	P	177	TYR	CB-CA-C	-5.32	100.79	109.56
17	Q	361	ASP	N-CA-C	5.31	122.11	110.80
16	P	495	LYS	CA-C-N	5.31	131.68	121.54
16	P	495	LYS	C-N-CA	5.31	131.68	121.54
16	P	316	TRP	N-CA-CB	5.29	119.44	110.49
1	A	666	VAL	N-CA-C	5.29	120.35	109.34
15	O	588	SER	CA-C-N	5.29	127.32	120.56
15	O	588	SER	C-N-CA	5.29	127.32	120.56
3	C	151	THR	N-CA-C	5.28	119.56	113.38
17	Q	25	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	A	791	TYR	N-CA-C	5.25	121.98	110.80
4	D	14	THR	CA-C-N	5.25	131.56	121.54
4	D	14	THR	C-N-CA	5.25	131.56	121.54
17	Q	257	ILE	N-CA-C	-5.25	103.93	111.17
15	O	324	TRP	CB-CA-C	-5.24	109.56	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	Q	154	LYS	N-CA-C	5.23	118.81	111.74
2	B	456	ASN	CA-C-O	5.23	126.62	120.98
16	P	447	ALA	N-CA-CB	5.22	117.86	110.13
1	A	459	ALA	CB-CA-C	-5.22	100.04	110.42
15	O	676	SER	N-CA-C	5.21	118.42	111.75
16	P	120	ILE	N-CA-C	5.20	115.92	110.62
17	Q	426	VAL	N-CA-C	5.20	113.59	107.77
15	O	375	PHE	N-CA-C	5.18	116.81	108.32
16	P	220	SER	CA-C-N	5.17	125.41	119.83
16	P	220	SER	C-N-CA	5.17	125.41	119.83
15	O	635	ASN	OD1-CG-ND2	-5.16	117.44	122.60
16	P	261	ALA	CB-CA-C	-5.15	100.17	110.42
15	O	297	ILE	N-CA-C	5.15	116.49	111.91
17	Q	150	GLN	N-CA-CB	-5.14	100.52	109.73
2	B	92	GLY	N-CA-C	-5.14	101.00	113.18
15	O	629	ARG	N-CA-C	5.14	116.96	111.36
16	P	368	GLN	N-CA-CB	5.12	119.14	110.49
16	P	238	HIS	CA-C-N	5.11	127.13	120.28
16	P	238	HIS	C-N-CA	5.11	127.13	120.28
15	O	379	LYS	N-CA-C	5.11	116.28	108.52
20	T	26	DT	C4'-C3'-O3'	5.11	117.66	110.00
15	O	694	ILE	CB-CA-C	-5.10	101.55	110.38
15	O	595	GLN	N-CA-C	5.10	116.53	111.07
16	P	126	PRO	N-CA-C	5.08	122.95	112.47
17	Q	145	SER	N-CA-C	5.08	115.84	107.20
16	P	245	SER	N-CA-C	5.07	121.60	110.80
16	P	156	LEU	N-CA-C	5.06	118.20	110.20
15	O	693	PHE	N-CA-C	5.06	121.58	110.80
1	A	105	CYS	N-CA-C	-5.05	107.66	113.88
17	Q	141	TRP	N-CA-C	-5.05	101.08	109.46
15	O	701	HIS	CB-CG-CD2	-5.05	124.64	131.20
16	P	505	ILE	CB-CA-C	-5.04	100.33	111.77
16	P	510	LEU	CB-CA-C	-5.04	100.40	110.42
13	M	113	ILE	CG1-CB-CG2	5.03	125.80	110.70
15	O	412	ASN	N-CA-C	-5.03	107.12	113.20

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	11623	1803	0
2	B	9351	0	9239	1339	0
3	C	2432	0	2418	359	0
4	D	467	0	468	79	0
5	E	1760	0	1788	296	0
6	F	670	0	690	72	0
7	G	1592	0	1600	375	0
8	H	1071	0	1045	184	0
9	I	479	0	478	240	0
10	J	569	0	585	93	0
11	K	811	0	801	118	0
12	L	359	0	381	68	0
13	M	841	0	837	200	0
14	N	1254	0	1264	251	0
15	O	5063	0	4796	2326	0
16	P	3238	0	3256	1758	0
17	Q	2923	0	2967	1058	0
18	R	127	0	67	0	0
19	S	875	0	477	31	0
20	T	1082	0	615	43	0
21	A	2	0	0	0	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	46512	0	45395	9219	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 104.

All (9219) 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:421:ILE:HD11	17:Q:138:PHE:CD2	1.21	1.72
15:O:589:ILE:HG22	16:P:320:PHE:CD2	1.25	1.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:123:MET:HB2	16:P:125:PHE:CE1	1.19	1.70
16:P:171:HIS:CE1	16:P:243:PHE:CE1	1.81	1.67
15:O:421:ILE:CD1	17:Q:138:PHE:CD2	1.75	1.67
2:B:1104:CYS:HB3	2:B:1107:CYS:SG	1.18	1.66
15:O:436:ILE:HG21	17:Q:141:TRP:CE3	1.16	1.65
1:A:83:VAL:HG11	1:A:427:PHE:CE2	1.28	1.64
15:O:650:LEU:CB	16:P:242:PHE:HE2	1.08	1.64
16:P:227:TYR:CZ	16:P:304:LEU:HD13	1.18	1.64
16:P:413:LEU:CD1	17:Q:273:TRP:CH2	1.79	1.64
15:O:715:TYR:CE1	15:O:734:LYS:HG2	1.27	1.62
17:Q:356:PRO:HG2	17:Q:357:PRO:CD	1.28	1.62
1:A:920:PHE:CZ	1:A:930:LEU:CD2	1.82	1.62
1:A:920:PHE:CZ	1:A:930:LEU:HD23	1.17	1.62
15:O:650:LEU:HB3	16:P:242:PHE:CE2	1.35	1.62
15:O:294:PHE:CE2	15:O:300:LEU:HB3	1.23	1.61
15:O:399:TRP:HE1	17:Q:134:PRO:CG	0.97	1.61
15:O:736:ILE:HD13	16:P:268:PHE:CE1	1.29	1.61
15:O:658:LYS:C	15:O:659:LEU:HD13	1.21	1.61
17:Q:354:LEU:HG	17:Q:359:MET:CA	1.26	1.60
15:O:616:SER:CB	15:O:620:ASP:HB2	1.22	1.60
17:Q:356:PRO:CG	17:Q:357:PRO:HD3	1.21	1.60
17:Q:381:ARG:HA	17:Q:384:VAL:CG2	1.25	1.60
15:O:421:ILE:HD11	17:Q:138:PHE:CE2	1.32	1.60
15:O:436:ILE:HG21	17:Q:141:TRP:CZ3	1.32	1.60
16:P:118:TRP:HH2	16:P:189:LYS:CD	1.12	1.60
16:P:284:LEU:HD13	16:P:302:ALA:CB	1.27	1.60
16:P:413:LEU:HD11	17:Q:273:TRP:CH2	1.34	1.59
16:P:104:PHE:HB2	16:P:211:TYR:CD1	1.10	1.59
9:I:27:ASN:CB	9:I:39:LYS:H	0.99	1.59
15:O:702:LEU:HD23	16:P:123:MET:SD	1.41	1.59
16:P:419:LEU:CD2	17:Q:237:ALA:HB2	1.12	1.59
9:I:28:VAL:HB	9:I:37:TYR:CB	1.21	1.58
15:O:222:GLN:HB2	15:O:225:LEU:CG	1.14	1.58
15:O:294:PHE:CE2	15:O:300:LEU:CB	1.84	1.58
16:P:143:THR:CG2	16:P:236:MET:HE1	1.13	1.58
16:P:118:TRP:CH2	16:P:189:LYS:HD3	1.34	1.57
16:P:195:ALA:HB2	16:P:216:GLU:CB	1.16	1.57
15:O:214:LEU:CB	15:O:236:ILE:HG21	1.17	1.56
15:O:347:LEU:CD2	17:Q:152:ILE:HA	1.27	1.56
15:O:314:GLN:CB	15:O:329:ILE:HG13	1.25	1.56
16:P:101:LYS:CD	16:P:152:LEU:HD12	1.13	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:284:LEU:HD13	16:P:302:ALA:CA	1.34	1.56
1:A:658:LEU:CD2	1:A:665:PRO:HA	1.27	1.56
16:P:227:TYR:CZ	16:P:304:LEU:CD1	1.85	1.56
17:Q:355:THR:C	17:Q:359:MET:HG3	1.18	1.56
15:O:214:LEU:HB2	15:O:236:ILE:CG2	1.21	1.55
15:O:222:GLN:CA	15:O:225:LEU:HD21	1.34	1.55
3:C:146:ALA:CB	3:C:151:THR:HG21	1.11	1.55
15:O:205:TYR:HB2	15:O:215:ASN:CB	1.36	1.55
17:Q:247:ILE:CG2	17:Q:278:TYR:HE2	1.13	1.55
15:O:423:ILE:HG21	17:Q:141:TRP:CH2	1.32	1.55
15:O:725:VAL:HG11	16:P:449:GLN:CG	1.35	1.55
15:O:736:ILE:HD13	16:P:268:PHE:CZ	1.41	1.55
15:O:14:UNK:CB	15:O:438:TRP:HB2	1.37	1.55
15:O:205:TYR:CB	15:O:215:ASN:HB2	1.35	1.54
14:N:25:ILE:HB	14:N:26:PRO:CD	1.20	1.54
15:O:616:SER:HB2	15:O:620:ASP:CB	1.29	1.54
2:B:811:LEU:CD1	2:B:899:GLN:HB3	1.09	1.54
1:A:1119:LYS:HD2	1:A:1120:TYR:CZ	1.42	1.53
15:O:725:VAL:HG23	16:P:450:THR:CA	1.05	1.53
15:O:725:VAL:CG2	16:P:450:THR:HA	1.33	1.53
16:P:104:PHE:CB	16:P:211:TYR:CD1	1.90	1.53
17:Q:354:LEU:CD1	17:Q:359:MET:HA	1.33	1.53
15:O:725:VAL:HG21	16:P:449:GLN:C	1.19	1.52
16:P:227:TYR:CE2	16:P:304:LEU:HD13	1.43	1.52
17:Q:247:ILE:CD1	17:Q:248:LYS:H	1.21	1.52
2:B:811:LEU:HD11	2:B:899:GLN:CB	1.05	1.52
15:O:299:ASP:CB	17:Q:159:TYR:HB2	1.06	1.52
17:Q:354:LEU:CG	17:Q:359:MET:HA	1.37	1.52
17:Q:283:ARG:HA	17:Q:302:ARG:CB	1.08	1.51
15:O:260:LEU:HD13	15:O:261:VAL:N	1.25	1.51
16:P:417:PHE:CE1	17:Q:258:LEU:HD11	1.42	1.51
15:O:771:ILE:CG2	16:P:109:GLN:NE2	1.72	1.51
15:O:314:GLN:HB3	15:O:329:ILE:CD1	1.40	1.51
15:O:299:ASP:HB2	17:Q:159:TYR:CB	1.41	1.51
15:O:592:LEU:CD1	16:P:512:ARG:NH2	1.70	1.51
2:B:815:ARG:NH1	2:B:818:GLY:HA2	1.26	1.50
16:P:280:ASP:C	16:P:281:ILE:HD13	1.36	1.50
15:O:294:PHE:HE2	15:O:300:LEU:CB	1.17	1.50
5:E:127:ILE:C	5:E:129:PRO:CD	1.79	1.50
15:O:194:ARG:CA	15:O:197:ARG:NH2	1.70	1.50
16:P:284:LEU:CD1	16:P:302:ALA:HA	1.41	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:402:MET:CE	16:P:407:LYS:HG2	1.42	1.49
1:A:83:VAL:CG1	1:A:427:PHE:CE2	1.95	1.49
15:O:656:HIS:CD2	15:O:747:LEU:H	1.28	1.49
16:P:104:PHE:HB2	16:P:211:TYR:CE1	1.47	1.49
2:B:1104:CYS:CB	2:B:1107:CYS:SG	2.01	1.48
15:O:188:GLN:HB2	15:O:199:GLY:CA	1.43	1.48
1:A:461:GLU:CG	1:A:1618:THR:HB	1.42	1.48
1:A:467:PHE:CE2	1:A:1614:SER:CB	1.96	1.48
2:B:117:VAL:CG2	17:Q:276:GLN:HG3	1.40	1.48
16:P:171:HIS:CD2	16:P:243:PHE:CD1	2.01	1.48
17:Q:355:THR:C	17:Q:359:MET:CG	1.83	1.48
15:O:771:ILE:HG22	16:P:109:GLN:NE2	1.21	1.48
16:P:227:TYR:CE2	16:P:301:HIS:CB	1.95	1.48
16:P:419:LEU:HD21	17:Q:237:ALA:CB	1.02	1.47
15:O:715:TYR:HE1	15:O:734:LYS:CG	1.26	1.47
15:O:314:GLN:HB3	15:O:329:ILE:CG1	1.00	1.47
16:P:125:PHE:CD2	16:P:129:PHE:CD2	2.00	1.47
2:B:811:LEU:HD11	2:B:899:GLN:CG	1.42	1.46
9:I:27:ASN:HA	9:I:38:PRO:CA	1.05	1.46
15:O:780:ILE:C	16:P:199:LEU:CD2	1.88	1.46
16:P:139:LYS:NZ	16:P:242:PHE:CD2	1.82	1.46
16:P:402:MET:HE3	16:P:407:LYS:CG	1.26	1.46
15:O:366:PHE:CE2	15:O:432:PRO:HA	1.51	1.46
1:A:467:PHE:CZ	1:A:1614:SER:HB3	1.50	1.46
16:P:227:TYR:CE2	16:P:301:HIS:CG	2.03	1.46
16:P:363:SER:HA	16:P:366:TYR:CD2	1.50	1.46
1:A:469:LYS:HD2	2:B:1070:ARG:NH1	1.20	1.45
15:O:347:LEU:HB3	17:Q:152:ILE:CA	1.45	1.45
16:P:125:PHE:CE2	16:P:129:PHE:CD2	2.04	1.45
15:O:583:GLU:CG	15:O:584:ARG:H	1.20	1.45
16:P:354:LYS:HG2	16:P:362:THR:CG2	1.46	1.45
1:A:467:PHE:CE2	1:A:1614:SER:HA	1.51	1.44
16:P:123:MET:CB	16:P:125:PHE:HE1	1.27	1.44
16:P:125:PHE:CD2	16:P:129:PHE:HD2	1.33	1.44
1:A:1112:PRO:HB2	1:A:1114:TYR:CZ	1.51	1.44
15:O:347:LEU:HB3	17:Q:152:ILE:C	1.43	1.44
15:O:347:LEU:CG	17:Q:152:ILE:HA	1.46	1.44
15:O:589:ILE:CG2	16:P:320:PHE:HD2	1.28	1.44
1:A:530:TRP:HB3	1:A:531:PRO:CD	1.43	1.44
15:O:573:GLU:HA	16:P:499:LYS:NZ	1.23	1.44
15:O:319:ASP:OD1	15:O:348:HIS:CE1	1.70	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:118:TRP:CH2	16:P:189:LYS:CG	2.01	1.44
15:O:347:LEU:CB	17:Q:152:ILE:CA	1.95	1.43
16:P:257:VAL:CG1	16:P:262:LEU:HD12	1.45	1.43
2:B:815:ARG:HH12	2:B:818:GLY:CA	1.26	1.43
15:O:772:ILE:CD1	16:P:138:LEU:HD21	1.48	1.43
1:A:1119:LYS:HD2	1:A:1120:TYR:CE2	1.52	1.43
15:O:423:ILE:CG2	17:Q:141:TRP:HH2	1.29	1.43
2:B:811:LEU:CG	2:B:899:GLN:HB3	1.47	1.42
3:C:146:ALA:HB1	3:C:151:THR:CG2	0.96	1.42
17:Q:283:ARG:CA	17:Q:302:ARG:HB2	1.48	1.42
1:A:658:LEU:CD2	1:A:665:PRO:CA	1.94	1.42
1:A:790:LYS:HD2	1:A:791:TYR:CZ	1.54	1.42
1:A:1154:LEU:CA	1:A:1157:SER:OG	1.66	1.42
16:P:383:LYS:O	16:P:386:LEU:CD2	1.65	1.42
9:I:27:ASN:HA	9:I:38:PRO:CB	1.36	1.42
15:O:399:TRP:NE1	17:Q:134:PRO:CG	1.80	1.42
15:O:592:LEU:HD12	16:P:512:ARG:NH2	1.24	1.42
17:Q:354:LEU:CG	17:Q:359:MET:CA	1.90	1.42
1:A:921:PRO:HG3	8:H:19:ARG:CG	1.46	1.42
9:I:17:LEU:HD11	9:I:37:TYR:CE2	1.50	1.42
15:O:589:ILE:CG2	16:P:320:PHE:CD2	2.02	1.41
17:Q:247:ILE:CG1	17:Q:298:GLN:CG	1.88	1.41
15:O:725:VAL:CG2	16:P:449:GLN:C	1.94	1.41
16:P:227:TYR:CE2	16:P:301:HIS:HB2	1.51	1.41
1:A:1112:PRO:CB	1:A:1114:TYR:CZ	2.02	1.41
15:O:436:ILE:CG2	17:Q:141:TRP:CZ3	2.03	1.41
17:Q:247:ILE:CG2	17:Q:278:TYR:CE2	2.03	1.41
1:A:109:ARG:NH2	1:A:240:SER:HB2	1.21	1.40
15:O:736:ILE:CD1	16:P:268:PHE:CE1	2.03	1.40
17:Q:247:ILE:CG1	17:Q:298:GLN:HG2	1.42	1.40
16:P:263:PRO:CB	16:P:266:PHE:HD2	1.32	1.40
15:O:656:HIS:HD2	15:O:747:LEU:N	1.12	1.40
9:I:17:LEU:CD1	9:I:37:TYR:CZ	1.84	1.39
7:G:97:LYS:NZ	7:G:99:ASP:N	1.68	1.39
14:N:25:ILE:CB	14:N:26:PRO:HD2	1.39	1.39
16:P:101:LYS:HD2	16:P:152:LEU:CD1	1.51	1.39
1:A:467:PHE:CE2	1:A:1614:SER:CA	2.02	1.39
15:O:222:GLN:NE2	15:O:228:ASN:H	1.15	1.39
15:O:399:TRP:NE1	17:Q:134:PRO:HG3	1.36	1.39
16:P:235:GLY:HA2	16:P:289:ARG:CB	0.93	1.39
9:I:27:ASN:HB3	9:I:39:LYS:N	1.10	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:157:HIS:CE1	16:P:229:LYS:HG2	1.58	1.38
16:P:157:HIS:CE1	16:P:159:THR:HB	1.57	1.38
16:P:354:LYS:CG	16:P:362:THR:HG21	1.52	1.38
17:Q:354:LEU:HG	17:Q:359:MET:N	1.16	1.38
17:Q:354:LEU:CG	17:Q:359:MET:N	1.84	1.38
17:Q:381:ARG:CA	17:Q:384:VAL:HG21	1.48	1.38
1:A:9:SER:HA	2:B:1194:ILE:CD1	1.51	1.38
15:O:616:SER:CB	15:O:620:ASP:CB	1.88	1.38
16:P:171:HIS:NE2	16:P:243:PHE:CE1	1.88	1.38
15:O:210:THR:O	15:O:212:SER:N	1.56	1.37
16:P:118:TRP:CH2	16:P:189:LYS:CD	1.92	1.37
16:P:143:THR:HG21	16:P:236:MET:CE	0.91	1.37
17:Q:355:THR:CA	17:Q:359:MET:CG	2.01	1.37
2:B:117:VAL:HG21	17:Q:276:GLN:CG	1.50	1.37
15:O:348:HIS:CD2	15:O:349:GLY:H	1.41	1.37
15:O:701:HIS:ND1	16:P:123:MET:HA	1.33	1.37
17:Q:247:ILE:HG13	17:Q:298:GLN:CG	1.08	1.37
17:Q:381:ARG:CA	17:Q:384:VAL:CG2	1.98	1.37
17:Q:277:ILE:O	17:Q:278:TYR:CD1	1.77	1.37
16:P:204:ARG:O	16:P:208:PRO:CD	1.71	1.36
16:P:284:LEU:CG	16:P:305:ARG:HH11	1.38	1.36
17:Q:285:VAL:HG23	17:Q:302:ARG:CZ	1.53	1.36
15:O:702:LEU:CD2	16:P:123:MET:SD	2.12	1.36
15:O:222:GLN:CB	15:O:225:LEU:HG	1.56	1.36
15:O:347:LEU:CB	17:Q:152:ILE:HA	1.51	1.36
16:P:101:LYS:CD	16:P:152:LEU:CD1	2.04	1.36
15:O:347:LEU:CD2	17:Q:152:ILE:CA	2.03	1.35
15:O:650:LEU:CB	16:P:242:PHE:CE2	1.94	1.35
15:O:653:SER:OG	15:O:656:HIS:CB	1.72	1.35
16:P:469:PRO:HB2	16:P:470:PRO:CD	1.52	1.35
1:A:467:PHE:HE2	1:A:1614:SER:CA	1.36	1.35
16:P:344:THR:HG22	16:P:436:LEU:O	1.22	1.35
17:Q:355:THR:CA	17:Q:359:MET:HG2	1.57	1.35
17:Q:355:THR:CB	17:Q:356:PRO:HD3	1.51	1.35
15:O:380:MET:HB2	15:O:394:VAL:CG2	1.54	1.35
1:A:721:LYS:HG3	8:H:94:ASP:O	1.21	1.34
15:O:422:ILE:O	15:O:439:LYS:HB2	1.20	1.34
1:A:111:LYS:CD	1:A:113:VAL:HG22	1.31	1.34
9:I:28:VAL:CB	9:I:37:TYR:CB	2.05	1.34
15:O:436:ILE:CG2	17:Q:141:TRP:CE3	2.08	1.34
17:Q:352:TRP:CE3	17:Q:357:PRO:HG2	1.63	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:LEU:HD23	1:A:665:PRO:CA	1.55	1.34
16:P:227:TYR:CD2	16:P:301:HIS:CD2	2.16	1.34
1:A:81:LEU:CD1	1:A:358:ASP:C	1.99	1.34
15:O:222:GLN:CB	15:O:225:LEU:CG	2.05	1.34
16:P:100:ALA:CB	16:P:209:ASN:ND2	1.90	1.34
16:P:195:ALA:CB	16:P:216:GLU:HB2	0.86	1.34
15:O:380:MET:CB	15:O:394:VAL:HG21	1.58	1.33
15:O:18:UNK:CB	17:Q:253:ILE:HD13	1.57	1.33
15:O:433:VAL:HB	17:Q:144:VAL:CB	1.57	1.33
15:O:658:LYS:O	15:O:659:LEU:HD13	1.16	1.33
16:P:227:TYR:CD2	16:P:301:HIS:CG	2.15	1.33
17:Q:285:VAL:CG2	17:Q:302:ARG:CZ	2.06	1.33
1:A:81:LEU:CG	1:A:358:ASP:C	1.93	1.33
9:I:27:ASN:CA	9:I:38:PRO:CA	1.98	1.33
15:O:357:LEU:HG	15:O:377:ARG:NH2	1.02	1.33
16:P:171:HIS:ND1	16:P:243:PHE:HE1	1.27	1.33
16:P:494:SER:OG	16:P:497:GLN:CB	1.74	1.33
15:O:237:GLU:OE2	15:O:239:HIS:CE1	1.81	1.32
16:P:118:TRP:CZ3	16:P:189:LYS:HB3	1.62	1.32
16:P:354:LYS:NZ	16:P:362:THR:HG22	1.41	1.32
15:O:10:UNK:CB	17:Q:142:ARG:HA	1.59	1.32
15:O:188:GLN:N	15:O:199:GLY:HA3	1.43	1.32
15:O:188:GLN:CB	15:O:199:GLY:HA2	1.58	1.32
16:P:262:LEU:CB	16:P:446:TYR:OH	1.74	1.32
17:Q:246:GLN:O	17:Q:247:ILE:HD13	1.23	1.32
17:Q:277:ILE:HG13	17:Q:278:TYR:CE1	1.63	1.32
1:A:461:GLU:CD	1:A:1618:THR:HB	1.11	1.32
16:P:362:THR:C	16:P:365:ASP:OD1	1.73	1.32
2:B:819:ASP:HB2	2:B:820:PRO:CD	1.55	1.32
15:O:366:PHE:CE2	15:O:432:PRO:CA	2.13	1.32
16:P:205:ILE:O	16:P:207:LEU:N	1.57	1.32
1:A:461:GLU:CD	1:A:1618:THR:CB	1.81	1.31
15:O:9:UNK:O	15:O:11:UNK:N	1.63	1.31
15:O:428:GLU:OE2	15:O:435:ARG:N	1.63	1.31
15:O:641:TRP:HB3	15:O:748:GLU:OE2	1.20	1.31
15:O:698:LYS:HE2	16:P:126:PRO:CD	1.56	1.31
15:O:23:UNK:O	17:Q:314:TRP:CZ3	1.83	1.31
15:O:222:GLN:CB	15:O:225:LEU:CD2	2.01	1.31
16:P:287:TRP:CZ3	16:P:290:THR:HG22	1.64	1.31
17:Q:208:TYR:O	17:Q:211:ARG:HG2	1.28	1.31
10:J:10:CYS:HB3	10:J:45:CYS:SG	1.71	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:355:THR:N	17:Q:359:MET:CG	1.92	1.31
7:G:169:VAL:CG2	7:G:216:HIS:O	1.77	1.30
16:P:417:PHE:CE1	17:Q:258:LEU:CD1	2.14	1.30
17:Q:283:ARG:CA	17:Q:302:ARG:CB	2.04	1.30
1:A:81:LEU:HG	1:A:358:ASP:C	1.40	1.30
15:O:366:PHE:CE2	15:O:432:PRO:O	1.84	1.30
16:P:100:ALA:CB	16:P:209:ASN:HD21	1.44	1.30
16:P:280:ASP:O	16:P:281:ILE:HD13	1.25	1.30
16:P:287:TRP:HZ3	16:P:290:THR:CG2	1.41	1.30
5:E:127:ILE:O	5:E:129:PRO:HD2	1.18	1.30
15:O:24:UNK:HA	17:Q:314:TRP:CH2	1.67	1.30
15:O:324:TRP:HD1	15:O:348:HIS:CG	1.49	1.30
17:Q:355:THR:O	17:Q:359:MET:HG3	1.13	1.30
5:E:127:ILE:C	5:E:129:PRO:HD2	0.87	1.29
16:P:262:LEU:HB3	16:P:446:TYR:OH	1.21	1.29
17:Q:133:LYS:HG3	17:Q:286:GLN:CB	1.61	1.29
17:Q:380:SER:C	17:Q:384:VAL:HG13	1.57	1.29
15:O:313:GLN:O	15:O:314:GLN:C	1.73	1.29
15:O:347:LEU:CB	17:Q:152:ILE:C	2.03	1.29
15:O:616:SER:HB2	15:O:620:ASP:CA	1.61	1.29
16:P:235:GLY:CA	16:P:289:ARG:HB2	0.82	1.29
15:O:299:ASP:CB	17:Q:159:TYR:CB	1.97	1.29
16:P:344:THR:HG22	16:P:436:LEU:C	1.44	1.29
17:Q:247:ILE:HD13	17:Q:248:LYS:N	1.47	1.29
14:N:96:GLU:CD	14:N:107:MET:HB2	1.40	1.29
15:O:686:TYR:CD2	15:O:692:THR:HG21	1.68	1.29
16:P:122:GLU:OE1	16:P:123:MET:HG3	1.29	1.29
17:Q:266:SER:O	17:Q:268:LEU:N	1.66	1.29
7:G:140:GLN:O	7:G:214:LEU:HD23	1.21	1.29
15:O:390:GLN:OE1	17:Q:151:PRO:HG2	1.25	1.29
1:A:467:PHE:HE2	1:A:1614:SER:CB	1.36	1.28
1:A:530:TRP:CB	1:A:531:PRO:HD2	1.63	1.28
15:O:346:ASN:O	15:O:347:LEU:HG	1.23	1.28
15:O:655:SER:HB2	16:P:244:ASN:CB	1.60	1.28
1:A:668:GLY:HA3	1:A:787:GLY:O	1.14	1.28
15:O:194:ARG:HG2	15:O:197:ARG:NH1	1.47	1.28
16:P:177:TYR:OH	16:P:226:LEU:HD13	1.21	1.28
1:A:81:LEU:HD12	1:A:357:MET:O	1.27	1.28
15:O:780:ILE:C	16:P:199:LEU:HD21	1.45	1.28
16:P:257:VAL:CG1	16:P:263:PRO:HD2	1.61	1.28
17:Q:355:THR:N	17:Q:359:MET:HG2	0.96	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:17:LEU:HD11	9:I:37:TYR:CZ	0.92	1.28
15:O:214:LEU:C	15:O:236:ILE:CG1	2.06	1.28
15:O:772:ILE:HD13	16:P:138:LEU:CD2	1.62	1.28
17:Q:274:MET:HA	17:Q:277:ILE:CG2	1.64	1.28
17:Q:380:SER:O	17:Q:384:VAL:HG13	1.14	1.28
17:Q:158:THR:O	17:Q:160:HIS:N	1.67	1.28
15:O:275:GLU:HB3	15:O:285:MET:O	1.29	1.27
15:O:357:LEU:CG	15:O:377:ARG:NH2	1.97	1.27
15:O:421:ILE:CD1	17:Q:138:PHE:HD2	1.19	1.27
15:O:725:VAL:HB	16:P:446:TYR:O	1.16	1.27
16:P:284:LEU:CD1	16:P:302:ALA:CA	2.02	1.27
16:P:369:TRP:HH2	16:P:377:PHE:CD1	1.51	1.27
15:O:724:LEU:CD1	16:P:443:GLN:O	1.81	1.27
15:O:736:ILE:CD1	16:P:268:PHE:CZ	2.14	1.27
15:O:373:LEU:HB3	15:O:375:PHE:CZ	1.68	1.27
17:Q:298:GLN:O	17:Q:299:THR:HG22	1.32	1.27
16:P:100:ALA:HB1	16:P:209:ASN:ND2	1.49	1.27
15:O:260:LEU:CD1	15:O:261:VAL:H	1.46	1.27
16:P:187:THR:OG1	16:P:189:LYS:HG3	1.29	1.27
15:O:657:SER:HB3	15:O:746:ARG:NH1	1.49	1.26
16:P:146:ASP:C	16:P:148:PRO:HD3	1.57	1.26
16:P:207:LEU:O	16:P:209:ASN:N	1.68	1.26
15:O:11:UNK:O	15:O:436:ILE:HG12	1.32	1.26
15:O:314:GLN:CB	15:O:329:ILE:CD1	2.13	1.26
16:P:330:TRP:CH2	16:P:334:LEU:HD11	1.70	1.26
1:A:72:CYS:O	1:A:366:ARG:NH2	1.68	1.26
15:O:428:GLU:OE2	15:O:435:ARG:HG2	1.31	1.26
3:C:151:THR:O	3:C:155:GLU:HB3	1.27	1.26
1:A:791:TYR:N	1:A:795:HIS:ND1	1.84	1.25
1:A:912:VAL:CB	1:A:913:PRO:HD2	1.65	1.25
15:O:323:ASN:O	15:O:348:HIS:HB2	1.14	1.25
15:O:347:LEU:CD2	17:Q:152:ILE:HG12	1.66	1.25
15:O:347:LEU:HD23	17:Q:152:ILE:CG1	1.65	1.25
15:O:583:GLU:CD	15:O:584:ARG:H	1.40	1.25
15:O:12:UNK:CB	15:O:439:LYS:NZ	1.98	1.25
15:O:260:LEU:CD2	15:O:273:ARG:CA	2.13	1.25
15:O:314:GLN:O	15:O:329:ILE:N	1.68	1.25
15:O:599:LYS:HD3	16:P:272:GLN:NE2	1.48	1.25
16:P:184:TRP:NE1	16:P:190:MET:HB2	1.47	1.25
2:B:1137:ASP:O	2:B:1140:LYS:HG2	1.34	1.25
16:P:419:LEU:CD1	16:P:420:ASP:OD1	1.83	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:355:THR:HB	17:Q:356:PRO:CD	1.67	1.25
15:O:313:GLN:O	15:O:315:PHE:N	1.67	1.25
15:O:354:PRO:CB	17:Q:131:TYR:OH	1.83	1.25
16:P:195:ALA:CB	16:P:216:GLU:CB	1.81	1.25
16:P:363:SER:HA	16:P:366:TYR:CE2	1.71	1.25
15:O:620:ASP:CG	15:O:674:GLU:HG2	1.61	1.25
17:Q:230:SER:HA	17:Q:233:TYR:CE2	1.71	1.25
17:Q:277:ILE:O	17:Q:278:TYR:HD1	0.95	1.25
1:A:65:CYS:HB3	1:A:75:HIS:NE2	1.52	1.25
15:O:222:GLN:NE2	15:O:228:ASN:N	1.82	1.25
15:O:323:ASN:O	15:O:348:HIS:CB	1.85	1.25
16:P:419:LEU:HD12	16:P:420:ASP:N	1.49	1.25
15:O:324:TRP:NE1	15:O:348:HIS:HA	1.52	1.24
17:Q:393:ILE:CD1	17:Q:397:ARG:O	1.84	1.24
16:P:362:THR:O	16:P:365:ASP:OD1	1.54	1.24
15:O:354:PRO:HB2	17:Q:131:TYR:OH	1.31	1.24
2:B:811:LEU:HD13	2:B:899:GLN:OE1	1.38	1.24
2:B:815:ARG:NH1	2:B:818:GLY:CA	1.90	1.24
15:O:299:ASP:HB2	17:Q:159:TYR:CG	1.73	1.24
15:O:740:ILE:O	15:O:744:LEU:CD1	1.83	1.24
16:P:413:LEU:CD1	17:Q:273:TRP:CZ2	1.87	1.24
1:A:81:LEU:CD1	1:A:357:MET:O	1.84	1.24
1:A:111:LYS:CD	1:A:113:VAL:CG2	1.80	1.24
1:A:790:LYS:NZ	1:A:791:TYR:CE2	2.05	1.24
9:I:8:ILE:CG2	9:I:37:TYR:OH	1.84	1.24
9:I:23:VAL:HG11	9:I:28:VAL:CG2	1.68	1.24
15:O:653:SER:OG	15:O:656:HIS:HB3	1.13	1.24
16:P:139:LYS:NZ	16:P:242:PHE:CE2	2.05	1.24
16:P:263:PRO:CB	16:P:266:PHE:CD2	2.20	1.24
1:A:109:ARG:NH2	1:A:240:SER:CB	1.99	1.23
15:O:725:VAL:CG2	16:P:450:THR:N	1.99	1.23
16:P:104:PHE:CD1	16:P:211:TYR:HD1	1.56	1.23
16:P:195:ALA:O	16:P:198:ILE:HD11	1.13	1.23
16:P:263:PRO:CG	16:P:266:PHE:CD2	2.20	1.23
15:O:6:UNK:O	17:Q:425:ALA:CA	1.86	1.23
15:O:314:GLN:NE2	15:O:331:LYS:HA	1.52	1.23
15:O:740:ILE:CG2	16:P:250:GLN:HB3	1.68	1.23
15:O:323:ASN:OD1	17:Q:155:GLN:HG3	1.38	1.23
15:O:433:VAL:HB	17:Q:144:VAL:CG1	1.69	1.23
15:O:655:SER:CB	16:P:244:ASN:HB2	1.68	1.23
16:P:494:SER:CB	16:P:497:GLN:HB3	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:357:LEU:HG	15:O:377:ARG:CZ	1.68	1.23
16:P:204:ARG:O	16:P:208:PRO:CG	1.86	1.23
2:B:817:ARG:O	2:B:819:ASP:CG	1.82	1.23
15:O:693:PHE:CD2	15:O:746:ARG:HB2	1.73	1.23
16:P:354:LYS:O	16:P:366:TYR:OH	1.55	1.23
15:O:592:LEU:HD11	16:P:512:ARG:CZ	1.68	1.22
16:P:147:GLN:O	16:P:151:GLU:HB3	1.32	1.22
16:P:177:TYR:CE1	16:P:226:LEU:CD2	2.21	1.22
16:P:177:TYR:CZ	16:P:226:LEU:HD22	1.72	1.22
9:I:27:ASN:CB	9:I:39:LYS:N	1.74	1.22
15:O:214:LEU:C	15:O:236:ILE:HG13	1.64	1.22
16:P:147:GLN:N	16:P:148:PRO:HD3	1.41	1.22
1:A:912:VAL:HB	1:A:913:PRO:CD	1.62	1.22
15:O:324:TRP:CD1	15:O:348:HIS:CB	2.21	1.22
15:O:653:SER:OG	15:O:656:HIS:CG	1.92	1.22
16:P:200:PRO:CB	16:P:203:TRP:HB2	1.69	1.22
1:A:456:VAL:O	1:A:459:ALA:HB2	1.36	1.22
9:I:27:ASN:HA	9:I:38:PRO:C	1.64	1.22
16:P:492:ALA:C	16:P:493:ILE:HD12	1.65	1.22
17:Q:354:LEU:CD1	17:Q:359:MET:CA	2.07	1.22
14:N:96:GLU:CD	14:N:107:MET:CB	1.96	1.21
15:O:353:ASP:C	17:Q:28:SER:HB3	1.60	1.21
15:O:380:MET:CG	15:O:394:VAL:HG21	1.70	1.21
16:P:378:LEU:HD11	17:Q:234:LYS:C	1.66	1.21
17:Q:143:THR:O	17:Q:144:VAL:HG23	1.35	1.21
17:Q:152:ILE:O	17:Q:154:LYS:N	1.72	1.21
2:B:1195:ARG:NH1	2:B:1196:LEU:O	1.72	1.21
16:P:294:HIS:CD2	20:T:48:DA:N6	2.09	1.21
1:A:920:PHE:HB3	1:A:921:PRO:CD	1.60	1.21
15:O:214:LEU:O	15:O:236:ILE:HB	1.38	1.21
1:A:81:LEU:HD11	1:A:359:VAL:N	1.48	1.21
15:O:725:VAL:CG1	16:P:449:GLN:HG3	1.68	1.21
16:P:101:LYS:CE	16:P:152:LEU:HD12	1.69	1.21
17:Q:354:LEU:HD12	17:Q:358:PHE:O	1.41	1.21
1:A:372:LYS:HA	1:A:376:GLU:O	1.39	1.21
1:A:921:PRO:CG	8:H:19:ARG:CG	2.19	1.21
15:O:665:ASN:O	15:O:667:ASP:N	1.74	1.21
16:P:146:ASP:C	16:P:148:PRO:CD	2.14	1.20
16:P:147:GLN:O	16:P:151:GLU:CB	1.89	1.20
16:P:223:ASN:HA	16:P:492:ALA:O	1.38	1.20
1:A:920:PHE:HZ	1:A:930:LEU:CD2	1.28	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1163:GLU:O	1:A:1167:ARG:HB3	1.36	1.20
9:I:28:VAL:CB	9:I:37:TYR:HB2	1.64	1.20
15:O:725:VAL:CG1	16:P:449:GLN:CG	2.19	1.20
16:P:247:ILE:CG2	16:P:302:ALA:HB3	1.70	1.20
16:P:369:TRP:CH2	16:P:377:PHE:CD1	2.29	1.20
17:Q:279:SER:O	17:Q:301:SER:HB2	1.03	1.20
15:O:366:PHE:HD2	15:O:432:PRO:CB	1.52	1.20
15:O:658:LYS:C	15:O:659:LEU:CD1	2.15	1.20
15:O:725:VAL:CG2	16:P:450:THR:CA	1.96	1.20
16:P:208:PRO:CA	16:P:212:VAL:HB	1.72	1.20
16:P:336:GLU:O	16:P:339:THR:HG23	1.09	1.20
14:N:80:MET:HE2	14:N:82:ILE:HD11	1.22	1.20
15:O:592:LEU:HD11	16:P:512:ARG:NE	1.57	1.20
15:O:656:HIS:CD2	15:O:747:LEU:N	1.94	1.20
16:P:413:LEU:CD2	17:Q:273:TRP:CZ3	2.24	1.20
17:Q:137:SER:O	17:Q:296:PRO:HG3	1.39	1.20
17:Q:380:SER:O	17:Q:384:VAL:CG1	1.90	1.20
14:N:26:PRO:O	14:N:28:GLY:N	1.75	1.20
15:O:702:LEU:HD13	16:P:174:LEU:CB	1.70	1.20
16:P:119:LEU:HD11	16:P:165:LEU:CD1	1.69	1.20
3:C:152:ASP:OD1	3:C:155:GLU:N	1.75	1.19
7:G:140:GLN:O	7:G:214:LEU:CD2	1.89	1.19
16:P:171:HIS:CE1	16:P:243:PHE:CZ	2.28	1.19
16:P:294:HIS:CG	20:T:48:DA:N6	2.11	1.19
1:A:1112:PRO:HB3	1:A:1114:TYR:OH	1.43	1.19
16:P:262:LEU:HB3	16:P:446:TYR:CZ	1.77	1.19
1:A:81:LEU:CD1	1:A:357:MET:C	2.16	1.19
9:I:30:CYS:CB	9:I:33:CYS:SG	2.31	1.19
15:O:352:PHE:C	15:O:354:PRO:HD2	1.66	1.19
15:O:431:ASP:OD2	15:O:433:VAL:HG22	1.35	1.19
15:O:740:ILE:HG21	16:P:267:TYR:OH	1.40	1.19
15:O:768:TYR:CB	16:P:145:ASN:HD21	1.32	1.19
15:O:725:VAL:CB	16:P:446:TYR:O	1.90	1.19
16:P:294:HIS:CD2	20:T:48:DA:C6	2.29	1.19
15:O:772:ILE:CD1	16:P:138:LEU:CD2	2.18	1.19
16:P:494:SER:HB3	16:P:497:GLN:CD	1.68	1.19
17:Q:277:ILE:CG1	17:Q:278:TYR:CE1	2.25	1.19
9:I:8:ILE:HG12	9:I:37:TYR:OH	1.42	1.18
15:O:740:ILE:O	15:O:744:LEU:HD11	1.33	1.18
1:A:1112:PRO:HB2	1:A:1114:TYR:CE2	1.78	1.18
16:P:143:THR:CG2	16:P:236:MET:CE	1.81	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:494:SER:HB3	16:P:497:GLN:OE1	1.39	1.18
1:A:921:PRO:CG	8:H:19:ARG:HG3	1.72	1.18
16:P:284:LEU:HD13	16:P:302:ALA:HB1	1.24	1.18
14:N:96:GLU:CA	14:N:105:SER:HB2	1.72	1.18
15:O:436:ILE:HG21	17:Q:141:TRP:CD2	1.79	1.18
16:P:119:LEU:CD1	16:P:165:LEU:HD12	1.74	1.18
16:P:157:HIS:ND1	16:P:159:THR:HB	1.57	1.18
17:Q:277:ILE:CD1	17:Q:278:TYR:CE1	2.26	1.18
14:N:25:ILE:CB	14:N:26:PRO:CD	2.00	1.18
15:O:727:PRO:HG2	16:P:265:GLU:OE2	1.01	1.18
1:A:385:LEU:HG	1:A:453:ILE:HD11	1.25	1.17
1:A:406:LEU:HD22	1:A:416:ARG:HG3	1.18	1.17
15:O:347:LEU:O	15:O:347:LEU:HD12	1.44	1.17
15:O:663:LEU:HD12	15:O:742:TRP:HH2	1.07	1.17
15:O:324:TRP:CD1	15:O:348:HIS:CG	2.32	1.17
15:O:472:ARG:NH2	17:Q:200:THR:H	1.42	1.17
15:O:620:ASP:OD1	15:O:674:GLU:HG2	1.40	1.17
15:O:727:PRO:HG2	16:P:265:GLU:CD	1.69	1.17
16:P:100:ALA:HB1	16:P:211:TYR:CE2	1.78	1.17
16:P:199:LEU:H	16:P:200:PRO:CD	1.25	1.17
17:Q:361:ASP:OD1	17:Q:362:ALA:N	1.75	1.17
15:O:433:VAL:CB	17:Q:144:VAL:CG1	2.23	1.17
15:O:736:ILE:HB	16:P:268:PHE:CZ	1.80	1.17
17:Q:285:VAL:HG23	17:Q:302:ARG:NE	1.58	1.17
15:O:12:UNK:HA	15:O:436:ILE:HD11	1.23	1.17
15:O:260:LEU:HD23	15:O:273:ARG:CA	1.72	1.17
15:O:315:PHE:O	15:O:316:ALA:CB	1.89	1.17
15:O:428:GLU:OE2	15:O:435:ARG:CG	1.93	1.17
16:P:94:LYS:CG	16:P:207:LEU:HB2	1.74	1.17
16:P:195:ALA:CA	16:P:216:GLU:CB	2.20	1.17
17:Q:208:TYR:HA	17:Q:211:ARG:CD	1.73	1.17
17:Q:246:GLN:O	17:Q:248:LYS:N	1.78	1.17
15:O:10:UNK:O	17:Q:141:TRP:CB	1.91	1.17
16:P:287:TRP:CZ3	16:P:290:THR:CG2	2.24	1.17
1:A:111:LYS:HD3	1:A:113:VAL:CG2	0.95	1.16
1:A:406:LEU:CD2	1:A:416:ARG:HG3	1.74	1.16
1:A:1476:LEU:HB3	1:A:1480:THR:HG21	1.26	1.16
15:O:656:HIS:CG	15:O:747:LEU:O	1.99	1.16
16:P:363:SER:O	16:P:366:TYR:HB2	1.43	1.16
1:A:721:LYS:HB3	1:A:722:PRO:CD	1.71	1.16
15:O:10:UNK:CB	17:Q:142:ARG:CA	2.23	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:315:PHE:O	15:O:316:ALA:HB3	1.45	1.16
15:O:388:ASN:HB3	17:Q:150:GLN:CD	1.70	1.16
16:P:171:HIS:CD2	16:P:243:PHE:CE1	2.24	1.16
1:A:721:LYS:CG	8:H:94:ASP:O	1.93	1.16
15:O:658:LYS:O	15:O:659:LEU:CD1	1.93	1.16
2:B:75:ASP:HB2	2:B:440:PHE:CZ	1.80	1.16
15:O:222:GLN:HB2	15:O:225:LEU:CD2	1.71	1.16
15:O:294:PHE:CD2	15:O:300:LEU:HB3	1.81	1.16
16:P:104:PHE:CG	16:P:211:TYR:HD1	1.63	1.16
9:I:27:ASN:HB3	9:I:39:LYS:CA	1.75	1.16
15:O:433:VAL:CG1	17:Q:144:VAL:HG12	1.74	1.16
16:P:195:ALA:CA	16:P:216:GLU:HB2	1.76	1.16
1:A:1074:TYR:OH	1:A:1159:ASP:OD2	1.60	1.15
2:B:1131:CYS:O	2:B:1163:GLN:N	1.78	1.15
9:I:8:ILE:HG23	9:I:37:TYR:OH	1.39	1.15
15:O:309:PRO:CD	15:O:365:TRP:CD1	2.29	1.15
15:O:422:ILE:HB	15:O:440:HIS:CE1	1.81	1.15
15:O:428:GLU:CD	15:O:435:ARG:HG2	1.71	1.15
17:Q:381:ARG:C	17:Q:384:VAL:HG22	1.71	1.15
15:O:10:UNK:O	17:Q:141:TRP:HB3	1.46	1.15
1:A:721:LYS:HB3	1:A:722:PRO:HD3	1.18	1.15
15:O:14:UNK:O	15:O:439:LYS:O	1.64	1.15
15:O:222:GLN:C	15:O:225:LEU:HD21	1.61	1.15
16:P:118:TRP:CH2	16:P:189:LYS:CB	2.30	1.15
16:P:195:ALA:O	16:P:198:ILE:CD1	1.95	1.15
7:G:97:LYS:NZ	7:G:99:ASP:H	1.32	1.15
9:I:8:ILE:CG1	9:I:37:TYR:OH	1.93	1.15
9:I:28:VAL:CB	9:I:37:TYR:HB3	1.73	1.15
15:O:222:GLN:HE21	15:O:228:ASN:N	1.43	1.15
15:O:701:HIS:CE1	16:P:123:MET:HA	1.80	1.15
15:O:736:ILE:CG1	16:P:268:PHE:HE1	1.59	1.15
1:A:920:PHE:CE1	1:A:930:LEU:CD2	2.30	1.15
16:P:205:ILE:C	16:P:207:LEU:N	1.99	1.15
1:A:469:LYS:CD	2:B:1070:ARG:NH1	2.07	1.14
15:O:384:ASP:HB3	15:O:389:TRP:HB3	1.21	1.14
16:P:106:LYS:HE2	16:P:203:TRP:CH2	1.82	1.14
16:P:284:LEU:CD1	16:P:302:ALA:CB	2.23	1.14
1:A:920:PHE:CE1	1:A:930:LEU:HD22	1.82	1.14
15:O:375:PHE:HD2	15:O:380:MET:CB	1.58	1.14
15:O:740:ILE:HG21	16:P:250:GLN:HB3	1.21	1.14
16:P:118:TRP:CH2	16:P:189:LYS:HB3	1.82	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:258:MET:N	16:P:262:LEU:HD13	1.61	1.14
1:A:9:SER:HA	2:B:1194:ILE:HD11	1.19	1.14
1:A:920:PHE:HB3	1:A:921:PRO:HD3	1.21	1.14
15:O:309:PRO:HG3	15:O:365:TRP:NE1	1.62	1.14
15:O:313:GLN:HB3	15:O:315:PHE:CE1	1.82	1.14
15:O:433:VAL:CG1	17:Q:144:VAL:O	1.93	1.14
15:O:433:VAL:HG12	17:Q:144:VAL:HG12	1.14	1.14
15:O:727:PRO:CG	16:P:265:GLU:OE2	1.94	1.14
16:P:385:PHE:CE2	17:Q:212:HIS:CD2	2.35	1.14
9:I:23:VAL:CG1	9:I:28:VAL:CG2	2.25	1.14
15:O:704:LEU:C	15:O:706:GLU:H	1.46	1.14
15:O:705:HIS:NE2	15:O:707:ASP:HB2	1.62	1.14
15:O:706:GLU:HG3	16:P:438:PHE:HB2	1.30	1.14
15:O:746:ARG:NH2	16:P:244:ASN:HB3	1.62	1.14
16:P:207:LEU:C	16:P:209:ASN:H	1.48	1.14
1:A:921:PRO:HG3	8:H:19:ARG:HG2	1.28	1.14
15:O:214:LEU:O	15:O:236:ILE:CB	1.95	1.14
15:O:322:GLY:HA3	17:Q:157:MET:HG3	1.23	1.14
15:O:616:SER:HB2	15:O:620:ASP:N	1.60	1.14
15:O:740:ILE:CG2	16:P:267:TYR:OH	1.95	1.14
16:P:178:THR:OG1	16:P:490:ASP:HB3	1.42	1.14
16:P:211:TYR:O	16:P:215:LEU:CD2	1.95	1.14
17:Q:247:ILE:HG21	17:Q:278:TYR:CE2	1.73	1.14
1:A:81:LEU:HG	1:A:358:ASP:O	0.96	1.13
15:O:260:LEU:HD23	15:O:273:ARG:HA	1.15	1.13
15:O:273:ARG:HG3	15:O:274:ILE:H	1.02	1.13
15:O:732:LEU:O	15:O:735:GLU:HG2	1.32	1.13
15:O:347:LEU:HD22	17:Q:151:PRO:O	1.46	1.13
16:P:143:THR:HG21	16:P:236:MET:HE2	1.16	1.13
16:P:157:HIS:CE1	16:P:159:THR:CB	2.31	1.13
17:Q:133:LYS:HA	17:Q:133:LYS:HE3	1.20	1.13
17:Q:279:SER:O	17:Q:301:SER:CB	1.96	1.13
15:O:194:ARG:O	15:O:196:TYR:CD2	2.02	1.13
15:O:421:ILE:CD1	17:Q:138:PHE:CE2	2.04	1.13
15:O:653:SER:HG	15:O:656:HIS:CG	1.66	1.13
16:P:211:TYR:O	16:P:215:LEU:HD23	1.45	1.13
16:P:413:LEU:HD11	17:Q:273:TRP:CZ2	1.42	1.13
16:P:419:LEU:HD12	16:P:420:ASP:OD1	1.44	1.13
1:A:15:ASP:HB2	2:B:1190:SER:HB2	1.20	1.13
15:O:314:GLN:CB	15:O:329:ILE:CG1	1.93	1.13
15:O:603:ARG:NH2	16:P:268:PHE:CD1	2.16	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:238:HIS:CE1	16:P:289:ARG:CZ	2.31	1.13
17:Q:356:PRO:CG	17:Q:357:PRO:CD	1.98	1.13
1:A:65:CYS:HB3	1:A:75:HIS:CE1	1.82	1.12
13:M:66:THR:HB	13:M:71:GLN:HG3	1.31	1.12
16:P:419:LEU:HD21	17:Q:237:ALA:HB1	1.13	1.13
15:O:771:ILE:HG21	16:P:105:LEU:CD2	1.79	1.12
7:G:74:ASN:HB3	7:G:77:VAL:HG22	1.25	1.12
9:I:27:ASN:CA	9:I:38:PRO:CB	2.07	1.12
9:I:27:ASN:HB2	9:I:37:TYR:C	1.74	1.12
15:O:222:GLN:CB	15:O:225:LEU:HD21	1.66	1.12
15:O:347:LEU:HD23	17:Q:152:ILE:HG12	1.13	1.12
15:O:366:PHE:CD2	15:O:432:PRO:CB	2.32	1.12
15:O:600:GLU:OE1	16:P:269:TYR:CE1	2.02	1.12
15:O:740:ILE:HB	16:P:250:GLN:HB2	1.13	1.12
16:P:344:THR:CG2	16:P:436:LEU:O	1.96	1.12
1:A:81:LEU:CG	1:A:358:ASP:O	1.91	1.12
15:O:313:GLN:CB	15:O:315:PHE:CE1	2.31	1.12
15:O:347:LEU:CD2	17:Q:152:ILE:CG1	2.23	1.12
15:O:475:ARG:HD2	17:Q:1:MET:SD	1.90	1.12
15:O:735:GLU:O	15:O:738:LYS:HB3	1.46	1.12
15:O:736:ILE:CG1	16:P:268:PHE:CE1	2.30	1.12
15:O:740:ILE:HG22	16:P:250:GLN:HG3	1.31	1.12
16:P:402:MET:HA	16:P:406:GLN:OE1	1.49	1.12
17:Q:356:PRO:CD	17:Q:357:PRO:CD	2.28	1.12
1:A:1119:LYS:CD	1:A:1120:TYR:CZ	2.30	1.12
1:A:1298:ASP:HB3	1:A:1301:GLU:HG3	1.31	1.12
7:G:218:VAL:HA	7:G:224:PRO:HA	1.24	1.12
15:O:10:UNK:CB	17:Q:141:TRP:C	2.22	1.12
15:O:12:UNK:CB	15:O:439:LYS:HZ1	1.57	1.12
15:O:324:TRP:CD1	15:O:348:HIS:HB2	1.81	1.12
15:O:347:LEU:HD22	17:Q:152:ILE:CA	1.75	1.12
15:O:433:VAL:HG11	17:Q:144:VAL:O	1.49	1.12
15:O:686:TYR:CG	15:O:692:THR:HG21	1.84	1.12
16:P:119:LEU:CD1	16:P:165:LEU:CD1	2.27	1.12
1:A:416:ARG:O	1:A:419:ILE:HG13	1.50	1.12
1:A:456:VAL:O	1:A:459:ALA:CB	1.97	1.12
9:I:37:TYR:HB3	9:I:38:PRO:HD3	1.19	1.12
11:K:95:HIS:HB3	11:K:98:GLU:HG3	1.25	1.12
15:O:366:PHE:CE2	15:O:432:PRO:C	2.26	1.12
16:P:100:ALA:HB2	16:P:209:ASN:HD21	1.07	1.12
16:P:177:TYR:OH	16:P:226:LEU:CD1	1.97	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:124:GLU:CD	17:Q:289:ASN:HD21	1.56	1.12
17:Q:247:ILE:CD1	17:Q:248:LYS:N	2.04	1.12
17:Q:302:ARG:HG3	17:Q:303:THR:H	1.11	1.12
1:A:721:LYS:NZ	8:H:90:ALA:O	1.83	1.11
15:O:311:ASP:O	15:O:315:PHE:HE1	1.32	1.11
15:O:434:ARG:HB2	17:Q:144:VAL:CG2	1.80	1.11
16:P:104:PHE:CG	16:P:211:TYR:CD1	2.36	1.11
16:P:171:HIS:CG	16:P:243:PHE:CE1	2.37	1.11
16:P:413:LEU:HD13	17:Q:273:TRP:CH2	1.85	1.11
16:P:416:ILE:C	16:P:418:PRO:CD	2.24	1.11
17:Q:354:LEU:HD11	17:Q:359:MET:HA	1.16	1.11
2:B:295:ASN:ND2	14:N:94:ASP:OD2	1.84	1.11
9:I:27:ASN:CA	9:I:38:PRO:C	2.17	1.11
15:O:347:LEU:HD23	17:Q:152:ILE:CB	1.79	1.11
15:O:375:PHE:CD2	15:O:380:MET:CB	2.33	1.11
15:O:399:TRP:CE3	17:Q:294:VAL:O	1.66	1.11
15:O:436:ILE:CB	17:Q:141:TRP:CZ3	2.31	1.11
15:O:650:LEU:HB2	16:P:242:PHE:HE2	1.00	1.11
15:O:653:SER:HB2	15:O:748:GLU:HB3	1.23	1.11
16:P:257:VAL:HG13	16:P:263:PRO:CD	1.79	1.11
16:P:263:PRO:CG	16:P:266:PHE:HD2	1.58	1.11
15:O:188:GLN:CB	15:O:199:GLY:CA	2.21	1.11
9:I:27:ASN:CA	9:I:38:PRO:HB2	1.75	1.11
9:I:27:ASN:CA	9:I:39:LYS:N	2.12	1.11
15:O:324:TRP:HE1	15:O:348:HIS:HA	1.04	1.11
15:O:399:TRP:O	15:O:419:ARG:NH2	1.84	1.11
15:O:422:ILE:CB	15:O:440:HIS:CE1	2.34	1.11
16:P:263:PRO:CG	16:P:266:PHE:HB2	1.80	1.11
3:C:120:LEU:HD13	3:C:124:GLU:HB2	1.18	1.11
15:O:222:GLN:N	15:O:225:LEU:HD21	1.64	1.11
15:O:583:GLU:HG2	15:O:584:ARG:N	1.44	1.11
15:O:747:LEU:HD12	15:O:748:GLU:N	1.64	1.11
15:O:294:PHE:CE2	15:O:300:LEU:HB2	1.81	1.10
15:O:431:ASP:OD2	15:O:433:VAL:CG2	1.99	1.10
15:O:740:ILE:CG2	16:P:250:GLN:CB	2.28	1.10
15:O:780:ILE:C	16:P:199:LEU:HD22	1.67	1.10
16:P:263:PRO:HG2	16:P:266:PHE:CB	1.80	1.10
1:A:416:ARG:HD2	1:A:419:ILE:HG12	1.22	1.10
15:O:389:TRP:O	15:O:390:GLN:HG3	1.50	1.10
15:O:399:TRP:HE1	17:Q:134:PRO:HG2	1.09	1.10
15:O:442:LEU:HD13	15:O:444:PRO:HD2	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:596:ILE:HG23	16:P:317:MET:HE1	1.32	1.10
16:P:239:PHE:CD2	16:P:243:PHE:CD2	2.39	1.10
16:P:334:LEU:O	16:P:338:LEU:HG	1.51	1.10
17:Q:136:LYS:HB3	17:Q:304:HIS:CD2	1.75	1.10
17:Q:158:THR:CG2	17:Q:161:ASN:HB2	1.82	1.10
15:O:415:LEU:HD13	15:O:453:VAL:HG11	1.30	1.10
15:O:434:ARG:CB	17:Q:144:VAL:HG21	1.81	1.10
15:O:633:ALA:HB3	15:O:662:LEU:HD13	1.34	1.10
15:O:663:LEU:CD1	15:O:742:TRP:HH2	1.62	1.10
15:O:746:ARG:HH22	16:P:244:ASN:HB3	0.94	1.10
16:P:353:VAL:O	16:P:356:VAL:HG22	1.48	1.10
16:P:419:LEU:CD1	16:P:420:ASP:H	1.63	1.10
1:A:101:SER:HA	1:A:108:PHE:CD1	1.65	1.10
1:A:790:LYS:NZ	1:A:791:TYR:CD2	2.17	1.10
2:B:1045:GLN:HB3	2:B:1063:ARG:HG3	1.14	1.10
16:P:402:MET:CE	16:P:407:LYS:CG	2.07	1.10
1:A:83:VAL:HG11	1:A:427:PHE:CD2	1.85	1.10
4:D:24:ALA:HA	7:G:43:ILE:HA	1.24	1.10
7:G:169:VAL:HG23	7:G:216:HIS:O	1.33	1.10
15:O:311:ASP:O	15:O:315:PHE:CE1	2.05	1.10
15:O:323:ASN:C	15:O:348:HIS:CB	2.25	1.10
15:O:366:PHE:CD2	15:O:432:PRO:CA	2.35	1.10
15:O:422:ILE:O	15:O:439:LYS:CB	2.00	1.10
15:O:433:VAL:CA	17:Q:144:VAL:HG11	1.81	1.10
15:O:599:LYS:HB3	16:P:272:GLN:NE2	1.66	1.10
15:O:650:LEU:HB3	16:P:242:PHE:CD2	1.86	1.10
16:P:315:ASN:O	16:P:319:SER:CB	1.98	1.10
16:P:385:PHE:HE2	17:Q:212:HIS:CD2	1.69	1.10
16:P:419:LEU:HD22	17:Q:237:ALA:HB2	1.33	1.10
13:M:44:LYS:HE2	14:N:30:LYS:HD2	1.30	1.09
15:O:266:GLU:O	15:O:300:LEU:HD13	1.51	1.09
15:O:428:GLU:HG3	15:O:433:VAL:HG23	1.20	1.09
16:P:123:MET:CB	16:P:125:PHE:CE1	2.10	1.09
16:P:157:HIS:NE2	16:P:229:LYS:HG2	1.67	1.09
1:A:467:PHE:CZ	1:A:1614:SER:CB	2.22	1.09
15:O:6:UNK:O	17:Q:425:ALA:HA	0.93	1.09
15:O:194:ARG:O	15:O:196:TYR:HD2	1.31	1.09
15:O:313:GLN:HB3	15:O:315:PHE:CZ	1.85	1.09
15:O:357:LEU:HB2	15:O:377:ARG:HE	1.11	1.09
16:P:235:GLY:HA3	16:P:289:ARG:HB2	1.26	1.09
16:P:363:SER:CA	16:P:366:TYR:CD2	2.35	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:277:ILE:C	17:Q:278:TYR:CD1	2.28	1.09
1:A:9:SER:CA	2:B:1194:ILE:HD11	1.80	1.09
3:C:48:ASP:HB3	3:C:51:GLU:HG2	1.34	1.09
15:O:657:SER:HB3	15:O:746:ARG:HH11	0.98	1.09
16:P:104:PHE:CD1	16:P:211:TYR:CD1	2.36	1.09
16:P:183:LYS:HD3	16:P:189:LYS:NZ	1.66	1.09
17:Q:248:LYS:H	17:Q:298:GLN:NE2	1.49	1.09
1:A:530:TRP:CE3	1:A:531:PRO:HD3	1.87	1.09
15:O:299:ASP:HB2	17:Q:159:TYR:CD2	1.86	1.09
15:O:440:HIS:ND1	15:O:481:PHE:HZ	1.48	1.09
16:P:108:PHE:HE2	16:P:137:TRP:CZ3	1.70	1.09
16:P:263:PRO:HB2	16:P:266:PHE:HD2	1.15	1.09
16:P:284:LEU:CG	16:P:305:ARG:NH1	2.16	1.09
17:Q:154:LYS:O	17:Q:156:LYS:N	1.86	1.09
1:A:723:TYR:O	1:A:725:LEU:HG	1.52	1.09
15:O:11:UNK:O	15:O:436:ILE:CG1	2.01	1.09
15:O:194:ARG:HA	15:O:197:ARG:NH2	0.76	1.09
15:O:573:GLU:CA	16:P:499:LYS:NZ	2.16	1.09
15:O:669:PHE:CD1	15:O:738:LYS:HE2	1.87	1.09
16:P:106:LYS:HE2	16:P:203:TRP:HH2	0.93	1.09
3:C:229:LEU:HB2	3:C:293:ARG:HD3	1.30	1.08
15:O:350:THR:O	15:O:351:ILE:O	1.71	1.08
15:O:390:GLN:HB2	17:Q:151:PRO:CG	1.82	1.08
16:P:227:TYR:OH	16:P:304:LEU:HD13	1.50	1.08
17:Q:380:SER:C	17:Q:384:VAL:CG1	2.24	1.08
1:A:658:LEU:HD22	1:A:665:PRO:CA	1.82	1.08
15:O:422:ILE:CG2	15:O:440:HIS:CE1	2.34	1.08
15:O:726:SER:HB2	16:P:264:PRO:CG	1.83	1.08
16:P:284:LEU:HD11	16:P:302:ALA:HA	1.16	1.08
16:P:402:MET:HE3	16:P:407:LYS:HG3	1.13	1.08
17:Q:247:ILE:HG22	17:Q:278:TYR:CE2	1.80	1.08
5:E:101:GLN:OE1	5:E:129:PRO:CG	2.01	1.08
15:O:10:UNK:CB	17:Q:141:TRP:O	2.02	1.08
15:O:393:VAL:HG11	17:Q:144:VAL:HG22	1.12	1.08
15:O:686:TYR:HA	15:O:689:GLN:HG2	1.33	1.08
16:P:147:GLN:N	16:P:148:PRO:CD	2.14	1.08
1:A:864:LEU:HD11	1:A:878:ARG:HD2	1.31	1.08
15:O:589:ILE:HG23	16:P:316:TRP:HE3	1.18	1.08
15:O:694:ILE:HD11	15:O:698:LYS:HD2	1.15	1.08
16:P:94:LYS:CB	16:P:207:LEU:HB2	1.83	1.08
16:P:104:PHE:CE1	16:P:215:LEU:CD2	2.37	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:177:TYR:CE1	16:P:226:LEU:HD22	1.84	1.08
16:P:215:LEU:HD12	16:P:216:GLU:OE1	1.52	1.08
17:Q:230:SER:CA	17:Q:233:TYR:HE2	1.67	1.08
17:Q:248:LYS:HD2	17:Q:298:GLN:HE22	1.02	1.08
15:O:14:UNK:CB	15:O:438:TRP:CB	2.32	1.08
15:O:215:ASN:N	15:O:236:ILE:HG13	1.67	1.08
15:O:222:GLN:CA	15:O:225:LEU:CD2	2.26	1.08
15:O:273:ARG:NH1	15:O:274:ILE:HG23	1.68	1.08
16:P:212:VAL:HA	16:P:215:LEU:HD21	1.29	1.08
16:P:239:PHE:CD2	16:P:243:PHE:CE2	2.41	1.08
16:P:344:THR:CG2	16:P:436:LEU:C	2.26	1.08
16:P:370:SER:OG	16:P:373:GLU:CD	1.97	1.08
17:Q:208:TYR:C	17:Q:211:ARG:HG2	1.79	1.08
1:A:81:LEU:HD11	1:A:358:ASP:C	1.71	1.07
2:B:819:ASP:CB	2:B:820:PRO:HD3	1.83	1.07
5:E:100:ILE:HG23	5:E:105:PHE:HD2	1.18	1.07
15:O:214:LEU:C	15:O:236:ILE:CB	2.27	1.07
15:O:422:ILE:HG21	15:O:440:HIS:CE1	1.88	1.07
15:O:615:ASN:HB3	15:O:617:HIS:CD2	1.87	1.07
15:O:623:LEU:CD1	15:O:668:SER:C	2.27	1.07
16:P:200:PRO:HB3	16:P:203:TRP:HB2	1.27	1.07
1:A:530:TRP:HE3	1:A:531:PRO:HD3	1.10	1.07
1:A:921:PRO:HG3	8:H:19:ARG:HG3	1.09	1.07
2:B:737:SER:HB3	2:B:806:THR:HG21	1.31	1.07
15:O:357:LEU:HD11	17:Q:20:LYS:NZ	1.69	1.07
15:O:357:LEU:CD1	17:Q:20:LYS:NZ	2.17	1.07
15:O:693:PHE:CG	15:O:746:ARG:HB2	1.87	1.07
15:O:727:PRO:CG	16:P:265:GLU:CD	2.27	1.07
16:P:104:PHE:HE1	16:P:211:TYR:O	1.35	1.07
16:P:294:HIS:CD2	19:S:7:DT:O4	2.07	1.07
16:P:413:LEU:HD22	17:Q:273:TRP:CZ3	1.87	1.07
17:Q:274:MET:CA	17:Q:277:ILE:HG22	1.85	1.07
15:O:299:ASP:HB3	17:Q:159:TYR:HB2	1.10	1.07
15:O:421:ILE:HD12	17:Q:138:PHE:CD2	1.68	1.07
15:O:768:TYR:HB2	16:P:145:ASN:ND2	1.66	1.07
17:Q:230:SER:HA	17:Q:233:TYR:HE2	0.91	1.07
1:A:83:VAL:CG1	1:A:427:PHE:HE2	1.45	1.07
7:G:97:LYS:HZ1	7:G:99:ASP:N	1.35	1.07
13:M:43:LYS:O	13:M:49:ASP:HA	1.53	1.07
15:O:275:GLU:O	15:O:284:VAL:HG13	1.52	1.07
15:O:592:LEU:HD11	16:P:512:ARG:NH2	1.53	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:650:LEU:CD2	16:P:139:LYS:HD2	1.83	1.07
15:O:724:LEU:HD13	16:P:443:GLN:O	1.54	1.07
16:P:183:LYS:HD3	16:P:189:LYS:HZ2	1.09	1.07
16:P:219:ILE:HD13	17:Q:207:ASN:HA	1.35	1.07
16:P:284:LEU:HG	16:P:305:ARG:HH11	1.19	1.07
17:Q:376:ALA:HB2	17:Q:407:HIS:CE1	1.89	1.07
2:B:811:LEU:CD1	2:B:899:GLN:CG	2.23	1.07
15:O:324:TRP:HD1	15:O:348:HIS:CD2	1.73	1.07
15:O:656:HIS:HB2	15:O:747:LEU:CB	1.84	1.07
16:P:222:PHE:C	16:P:223:ASN:OD1	1.97	1.07
17:Q:388:LYS:HD2	17:Q:393:ILE:HB	1.36	1.07
4:D:27:LEU:HD11	7:G:23:GLN:HB3	1.33	1.06
15:O:260:LEU:CD2	15:O:273:ARG:C	2.28	1.06
15:O:313:GLN:CB	15:O:315:PHE:CZ	2.37	1.06
15:O:740:ILE:HG21	16:P:267:TYR:HH	0.90	1.06
15:O:747:LEU:HD12	15:O:748:GLU:H	0.96	1.06
16:P:184:TRP:CD1	16:P:190:MET:HB2	1.91	1.06
16:P:208:PRO:CB	16:P:212:VAL:HB	1.85	1.06
16:P:227:TYR:CE2	16:P:304:LEU:CD1	2.23	1.06
16:P:419:LEU:CD2	17:Q:237:ALA:CB	1.86	1.06
1:A:335:LEU:HA	1:A:338:VAL:HB	1.35	1.06
1:A:467:PHE:CE2	1:A:1614:SER:HB2	1.86	1.06
2:B:1182:LEU:HD11	2:B:1187:SER:HB2	1.37	1.06
9:I:23:VAL:CG1	9:I:28:VAL:HG23	1.84	1.06
15:O:275:GLU:CB	15:O:285:MET:O	2.01	1.06
15:O:657:SER:HB2	15:O:746:ARG:HD2	1.34	1.06
16:P:204:ARG:O	16:P:208:PRO:HD3	1.48	1.06
2:B:811:LEU:CD1	2:B:899:GLN:OE1	2.02	1.06
15:O:314:GLN:CG	15:O:329:ILE:CD1	2.33	1.06
15:O:398:ALA:HA	17:Q:128:TRP:CH2	1.90	1.06
15:O:725:VAL:CG2	16:P:449:GLN:O	2.04	1.06
9:I:41:GLN:OE1	9:I:43:SER:CA	2.03	1.06
15:O:771:ILE:HG21	16:P:105:LEU:HD22	1.35	1.06
16:P:280:ASP:C	16:P:281:ILE:CD1	2.28	1.06
1:A:111:LYS:HD2	1:A:113:VAL:HG22	1.31	1.06
15:O:327:GLY:HA3	15:O:340:LYS:HD2	1.34	1.06
15:O:616:SER:OG	15:O:620:ASP:HB2	1.53	1.06
15:O:747:LEU:CD1	15:O:748:GLU:H	1.69	1.05
16:P:257:VAL:HG12	16:P:262:LEU:CD1	1.84	1.05
1:A:1112:PRO:HB3	1:A:1114:TYR:CZ	1.81	1.05
15:O:347:LEU:HB3	17:Q:152:ILE:O	1.57	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:434:ARG:HB2	17:Q:144:VAL:HG21	1.30	1.05
15:O:620:ASP:O	15:O:624:GLN:HG2	1.56	1.05
15:O:725:VAL:HG11	16:P:449:GLN:HG3	1.25	1.05
16:P:125:PHE:CE2	16:P:129:PHE:CE2	2.44	1.05
16:P:315:ASN:O	16:P:319:SER:HB3	1.56	1.05
16:P:336:GLU:O	16:P:339:THR:CG2	2.04	1.05
17:Q:349:ILE:O	17:Q:358:PHE:HZ	1.37	1.05
1:A:469:LYS:HA	2:B:1070:ARG:HH22	1.18	1.05
9:I:42:PHE:CE1	9:I:43:SER:O	2.10	1.05
15:O:428:GLU:CG	15:O:433:VAL:HG23	1.85	1.05
15:O:615:ASN:CB	15:O:617:HIS:CD2	2.40	1.05
15:O:663:LEU:HG	15:O:666:SER:HB3	1.31	1.05
15:O:704:LEU:HD11	16:P:123:MET:HE2	1.33	1.05
16:P:257:VAL:HG13	16:P:263:PRO:HD2	1.06	1.05
16:P:263:PRO:HG2	16:P:266:PHE:HB2	1.06	1.05
16:P:372:GLU:O	16:P:375:LEU:N	1.88	1.05
17:Q:247:ILE:HG22	17:Q:278:TYR:HE2	1.06	1.05
2:B:1142:LEU:HD23	7:G:13:THR:HG21	1.37	1.05
15:O:9:UNK:C	15:O:11:UNK:N	2.18	1.05
15:O:353:ASP:C	17:Q:28:SER:CB	2.25	1.05
15:O:395:GLN:HG2	15:O:397:LYS:H	0.88	1.05
16:P:284:LEU:HG	16:P:305:ARG:NH1	1.71	1.05
16:P:431:ASP:C	16:P:434:HIS:HA	1.81	1.05
3:C:146:ALA:HB1	3:C:151:THR:HG22	1.32	1.05
15:O:205:TYR:CZ	15:O:229:ARG:NH1	2.24	1.05
15:O:260:LEU:CD1	15:O:261:VAL:N	2.10	1.05
15:O:616:SER:HB3	15:O:620:ASP:HB2	1.37	1.05
15:O:725:VAL:HG21	16:P:450:THR:N	1.65	1.05
17:Q:350:SER:O	17:Q:353:VAL:HG23	1.57	1.05
15:O:375:PHE:CE2	15:O:380:MET:HB3	1.91	1.04
15:O:421:ILE:HG21	15:O:439:LYS:HG3	1.35	1.04
15:O:623:LEU:HD12	15:O:668:SER:HB2	1.33	1.04
16:P:378:LEU:CD2	17:Q:234:LYS:HB3	1.87	1.04
16:P:402:MET:HA	16:P:406:GLN:CD	1.82	1.04
16:P:416:ILE:C	16:P:418:PRO:HD3	1.81	1.04
17:Q:208:TYR:O	17:Q:211:ARG:CG	2.03	1.04
17:Q:352:TRP:HB2	17:Q:358:PHE:CZ	1.78	1.04
5:E:127:ILE:CA	5:E:129:PRO:HD2	1.85	1.04
12:L:48:CYS:HB3	12:L:51:CYS:SG	1.96	1.04
14:N:95:ILE:HG13	14:N:96:GLU:N	1.65	1.04
15:O:178:VAL:HG22	15:O:360:TRP:HB3	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:273:ARG:HB2	15:O:287:SER:OG	1.56	1.04
15:O:388:ASN:HB3	17:Q:150:GLN:NE2	1.71	1.04
15:O:422:ILE:HD11	15:O:442:LEU:HD23	1.37	1.04
15:O:589:ILE:HB	16:P:320:PHE:HE2	1.18	1.04
15:O:656:HIS:HB2	15:O:747:LEU:CA	1.85	1.04
15:O:696:PHE:HB3	15:O:711:LEU:HD12	1.34	1.04
16:P:104:PHE:CE1	16:P:211:TYR:C	2.35	1.04
17:Q:283:ARG:HA	17:Q:302:ARG:HB3	1.08	1.04
1:A:1262:LEU:HB2	1:A:1265:GLU:HG3	1.38	1.04
1:A:1661:PRO:HA	7:G:102:GLU:HG2	1.29	1.04
14:N:96:GLU:HA	14:N:105:SER:HB2	1.04	1.04
15:O:201:GLU:HG3	15:O:219:LEU:HB2	1.36	1.04
15:O:314:GLN:CG	15:O:329:ILE:HD11	1.87	1.04
16:P:94:LYS:HG2	16:P:207:LEU:HB2	1.36	1.04
1:A:911:CYS:O	1:A:912:VAL:O	1.74	1.04
1:A:1119:LYS:CD	1:A:1120:TYR:CE2	2.38	1.04
15:O:568:ILE:CG2	15:O:570:ASP:HB2	1.87	1.04
15:O:568:ILE:HG22	15:O:570:ASP:HB2	1.35	1.04
15:O:641:TRP:HB3	15:O:748:GLU:CD	1.83	1.04
15:O:669:PHE:C	15:O:671:SER:H	1.62	1.04
15:O:706:GLU:HG3	16:P:438:PHE:CB	1.87	1.04
15:O:725:VAL:HG11	16:P:449:GLN:HG2	1.08	1.04
16:P:118:TRP:CZ3	16:P:189:LYS:HD3	1.92	1.04
16:P:227:TYR:CZ	16:P:301:HIS:HB2	1.93	1.04
16:P:227:TYR:OH	16:P:304:LEU:CD1	2.01	1.04
16:P:284:LEU:CD2	16:P:305:ARG:NH1	2.21	1.04
16:P:402:MET:HE1	16:P:407:LYS:HG2	1.38	1.04
17:Q:277:ILE:HG13	17:Q:278:TYR:CD1	1.92	1.04
17:Q:356:PRO:HD2	17:Q:357:PRO:CD	1.87	1.04
15:O:313:GLN:N	15:O:315:PHE:CE1	2.26	1.04
15:O:433:VAL:HB	17:Q:144:VAL:HB	1.07	1.04
15:O:604:ILE:HG12	15:O:732:LEU:CD2	1.87	1.04
1:A:668:GLY:CA	1:A:787:GLY:O	2.04	1.03
2:B:815:ARG:CZ	2:B:818:GLY:HA2	1.88	1.03
7:G:97:LYS:HZ1	7:G:99:ASP:CA	1.70	1.03
15:O:298:ASP:HB3	17:Q:158:THR:HA	1.40	1.03
15:O:326:ILE:CG1	15:O:344:ILE:HG21	1.86	1.03
15:O:366:PHE:HE2	15:O:432:PRO:CA	1.59	1.03
15:O:440:HIS:ND1	15:O:481:PHE:CZ	2.25	1.03
15:O:698:LYS:HE2	16:P:126:PRO:HD2	1.36	1.03
16:P:108:PHE:CE2	16:P:137:TRP:CH2	2.47	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:ASP:HB2	1:A:615:ARG:HD2	1.40	1.03
1:A:1119:LYS:O	1:A:1120:TYR:CD1	2.10	1.03
13:M:80:LEU:O	13:M:88:ILE:HA	1.58	1.03
15:O:314:GLN:HG2	15:O:329:ILE:CD1	1.88	1.03
15:O:348:HIS:CD2	15:O:349:GLY:N	2.25	1.03
16:P:494:SER:OG	16:P:497:GLN:HB3	1.42	1.03
17:Q:247:ILE:CG1	17:Q:248:LYS:H	1.71	1.03
15:O:172:PHE:HE1	17:Q:186:LEU:HB2	1.19	1.03
15:O:184:SER:N	15:O:509:GLU:OE2	1.90	1.03
15:O:655:SER:HB2	16:P:244:ASN:HB2	1.16	1.03
15:O:656:HIS:HB2	15:O:747:LEU:HB3	1.37	1.03
15:O:657:SER:CB	15:O:746:ARG:HH11	1.72	1.03
16:P:177:TYR:CZ	16:P:226:LEU:HD13	1.92	1.03
16:P:247:ILE:HG21	16:P:302:ALA:CB	1.87	1.03
17:Q:264:SER:O	17:Q:265:SER:OG	1.76	1.03
17:Q:355:THR:CA	17:Q:359:MET:HG3	1.77	1.03
1:A:1163:GLU:O	1:A:1167:ARG:CB	2.05	1.03
15:O:353:ASP:O	17:Q:28:SER:HB3	1.56	1.03
15:O:421:ILE:HD12	17:Q:138:PHE:HD2	1.07	1.03
15:O:725:VAL:HG23	16:P:450:THR:N	1.65	1.03
16:P:170:THR:OG1	16:P:239:PHE:HZ	1.42	1.03
16:P:235:GLY:HA2	16:P:289:ARG:HB3	1.38	1.03
16:P:383:LYS:C	16:P:386:LEU:HD23	1.82	1.03
17:Q:310:ILE:HG21	17:Q:363:GLU:OE1	1.55	1.03
9:I:26:SER:C	9:I:38:PRO:HB2	1.83	1.03
16:P:171:HIS:CG	16:P:243:PHE:HE1	1.75	1.03
16:P:195:ALA:HB2	16:P:216:GLU:CA	1.88	1.03
16:P:208:PRO:HA	16:P:212:VAL:HB	1.36	1.03
16:P:369:TRP:CH2	16:P:377:PHE:CG	2.45	1.03
16:P:386:LEU:HG	16:P:387:PRO:HD3	1.06	1.03
16:P:494:SER:OG	16:P:497:GLN:CG	2.07	1.03
17:Q:381:ARG:CA	17:Q:384:VAL:HG22	1.81	1.03
5:E:3:GLN:O	5:E:7:ARG:HB2	1.57	1.02
7:G:242:VAL:HG23	7:G:243:VAL:H	1.22	1.02
15:O:347:LEU:HD22	17:Q:151:PRO:C	1.83	1.02
15:O:423:ILE:HD13	17:Q:141:TRP:CH2	1.94	1.02
15:O:653:SER:CB	15:O:656:HIS:HB3	1.89	1.02
15:O:656:HIS:CB	15:O:747:LEU:C	2.31	1.02
15:O:689:GLN:O	15:O:690:ASP:OD1	1.76	1.02
15:O:721:CYS:O	15:O:724:LEU:CD2	2.07	1.02
15:O:756:ILE:O	15:O:760:ILE:HG22	1.58	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:187:THR:OG1	16:P:189:LYS:CG	2.06	1.02
17:Q:248:LYS:HD2	17:Q:298:GLN:NE2	1.73	1.02
1:A:76:GLN:HG3	1:A:362:VAL:O	1.58	1.02
1:A:111:LYS:HG3	1:A:114:GLU:CB	1.89	1.02
7:G:162:ILE:HG12	7:G:249:LEU:HD12	1.42	1.02
7:G:169:VAL:HG22	7:G:216:HIS:O	1.55	1.02
14:N:109:LEU:HD23	14:N:122:ALA:HB2	1.36	1.02
15:O:18:UNK:O	17:Q:256:GLU:HB2	1.58	1.02
15:O:19:UNK:CB	17:Q:255:VAL:HG23	1.90	1.02
15:O:214:LEU:O	15:O:236:ILE:CG1	2.03	1.02
15:O:347:LEU:HD23	17:Q:152:ILE:HA	1.40	1.02
15:O:578:PHE:CZ	16:P:312:LEU:HD12	1.94	1.02
15:O:599:LYS:HB3	16:P:272:GLN:HE22	0.88	1.02
15:O:771:ILE:CG2	16:P:109:GLN:CD	2.31	1.02
16:P:235:GLY:CA	16:P:289:ARG:CB	1.75	1.02
17:Q:246:GLN:C	17:Q:247:ILE:HD13	1.84	1.02
17:Q:298:GLN:O	17:Q:299:THR:CG2	2.06	1.02
17:Q:383:PHE:CE2	17:Q:388:LYS:HG2	1.94	1.02
15:O:12:UNK:HA	15:O:436:ILE:CD1	1.88	1.02
15:O:395:GLN:HG2	15:O:397:LYS:N	1.73	1.02
17:Q:277:ILE:HD11	17:Q:278:TYR:HE1	1.22	1.02
17:Q:285:VAL:HG21	17:Q:302:ARG:NH2	1.75	1.02
1:A:469:LYS:HA	2:B:1070:ARG:NH2	1.74	1.02
1:A:1288:ARG:N	1:A:1476:LEU:O	1.91	1.02
15:O:214:LEU:C	15:O:236:ILE:HB	1.81	1.02
15:O:726:SER:CB	16:P:264:PRO:HG2	1.89	1.02
16:P:184:TRP:HE1	16:P:190:MET:HB2	1.24	1.02
16:P:386:LEU:CG	16:P:387:PRO:HD3	1.89	1.02
16:P:417:PHE:N	16:P:418:PRO:HD3	1.75	1.02
2:B:335:ARG:HG2	2:B:341:SER:OG	1.60	1.02
15:O:422:ILE:HG13	15:O:440:HIS:NE2	1.75	1.02
16:P:235:GLY:HA2	16:P:289:ARG:CG	1.89	1.02
16:P:284:LEU:HD21	16:P:305:ARG:NH1	1.74	1.02
16:P:469:PRO:CB	16:P:470:PRO:CD	2.37	1.02
17:Q:21:TYR:CE2	17:Q:124:GLU:HG3	1.95	1.02
17:Q:274:MET:HA	17:Q:277:ILE:HG22	1.35	1.02
1:A:83:VAL:HG12	1:A:427:PHE:CE2	1.93	1.01
1:A:109:ARG:CB	1:A:230:ARG:HG3	1.88	1.01
1:A:1148:LEU:HB3	1:A:1163:GLU:HG2	1.39	1.01
15:O:309:PRO:HG3	15:O:365:TRP:HE1	1.25	1.01
15:O:655:SER:HB2	16:P:244:ASN:CG	1.83	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:736:ILE:HB	16:P:268:PHE:HZ	1.20	1.01
16:P:139:LYS:NZ	16:P:242:PHE:CG	2.27	1.01
16:P:171:HIS:ND1	16:P:243:PHE:CE1	2.11	1.01
16:P:177:TYR:CE1	16:P:226:LEU:HD21	1.95	1.01
17:Q:5:PRO:HB2	17:Q:244:GLY:O	1.60	1.01
17:Q:247:ILE:HD13	17:Q:248:LYS:H	0.87	1.01
17:Q:274:MET:HA	17:Q:277:ILE:HG21	1.39	1.01
17:Q:277:ILE:CD1	17:Q:278:TYR:HE1	1.67	1.01
17:Q:356:PRO:HD2	17:Q:357:PRO:HD2	1.41	1.01
3:C:32:ASN:OD1	3:C:35:LYS:N	1.94	1.01
15:O:698:LYS:CE	16:P:126:PRO:CD	2.38	1.01
15:O:768:TYR:CB	16:P:145:ASN:ND2	2.11	1.01
16:P:178:THR:OG1	16:P:490:ASP:CB	2.07	1.01
16:P:227:TYR:HD2	16:P:301:HIS:CD2	1.68	1.01
17:Q:381:ARG:C	17:Q:384:VAL:CG2	2.32	1.01
15:O:194:ARG:HG2	15:O:197:ARG:HH12	1.01	1.01
15:O:314:GLN:HG2	15:O:330:PRO:O	1.59	1.01
15:O:375:PHE:CD2	15:O:380:MET:HB3	1.93	1.01
16:P:362:THR:HA	16:P:365:ASP:OD2	1.60	1.01
16:P:417:PHE:N	16:P:418:PRO:CD	2.24	1.01
1:A:790:LYS:HD2	1:A:791:TYR:CE1	1.94	1.01
9:I:23:VAL:HG21	9:I:38:PRO:CG	1.91	1.01
15:O:356:GLU:HG2	15:O:377:ARG:NH2	1.75	1.01
15:O:599:LYS:CB	16:P:272:GLN:HE22	1.73	1.01
15:O:650:LEU:HD22	16:P:139:LYS:CD	1.91	1.01
16:P:118:TRP:CZ2	16:P:189:LYS:HG2	1.96	1.01
2:B:752:VAL:HB	2:B:920:ARG:HH22	1.25	1.01
15:O:194:ARG:HA	15:O:197:ARG:CZ	1.90	1.01
15:O:694:ILE:HG13	15:O:695:GLY:H	1.23	1.01
16:P:195:ALA:HB1	16:P:216:GLU:HB2	1.40	1.01
16:P:239:PHE:CG	16:P:243:PHE:CD2	2.49	1.01
16:P:419:LEU:HD11	16:P:420:ASP:OD1	1.57	1.01
1:A:790:LYS:CE	1:A:791:TYR:CE2	2.44	1.00
11:K:58:GLY:O	11:K:59:THR:CG2	2.08	1.00
15:O:323:ASN:OD1	17:Q:155:GLN:CG	2.09	1.00
15:O:366:PHE:HD2	15:O:432:PRO:HB2	1.24	1.00
15:O:375:PHE:CD2	15:O:380:MET:HG2	1.95	1.00
15:O:693:PHE:HD2	15:O:746:ARG:N	1.59	1.00
16:P:118:TRP:CH2	16:P:189:LYS:HG2	1.92	1.00
16:P:118:TRP:CZ3	16:P:189:LYS:CB	2.43	1.00
16:P:262:LEU:HB2	16:P:446:TYR:OH	1.61	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:341:ARG:HB3	16:P:445:ARG:HH22	1.26	1.00
16:P:354:LYS:NZ	16:P:362:THR:CG2	2.24	1.00
1:A:422:ARG:O	1:A:426:ALA:HB3	1.62	1.00
8:H:111:LEU:HD23	8:H:128:ASN:HB3	1.38	1.00
15:O:323:ASN:C	15:O:348:HIS:HB2	1.87	1.00
15:O:693:PHE:CD2	15:O:746:ARG:N	2.29	1.00
16:P:119:LEU:HD21	16:P:190:MET:HE1	1.43	1.00
16:P:355:VAL:HA	16:P:366:TYR:CE1	1.96	1.00
16:P:469:PRO:HB2	16:P:470:PRO:HD3	1.02	1.00
16:P:494:SER:O	16:P:496:GLU:N	1.94	1.00
17:Q:133:LYS:CD	17:Q:286:GLN:HA	1.91	1.00
17:Q:393:ILE:HD12	17:Q:397:ARG:O	1.54	1.00
1:A:790:LYS:HD2	1:A:791:TYR:CE2	1.96	1.00
2:B:416:LYS:HG3	2:B:461:MET:HE3	1.40	1.00
15:O:421:ILE:CG2	15:O:439:LYS:CG	2.38	1.00
15:O:499:GLU:HG3	15:O:500:ILE:H	1.25	1.00
15:O:592:LEU:HD11	16:P:512:ARG:HE	1.21	1.00
15:O:771:ILE:HG21	16:P:109:GLN:NE2	1.75	1.00
15:O:599:LYS:CD	16:P:272:GLN:NE2	2.24	1.00
15:O:655:SER:CA	16:P:244:ASN:HB2	1.90	1.00
16:P:184:TRP:CZ2	16:P:192:TYR:HD2	1.79	1.00
16:P:263:PRO:HG3	16:P:266:PHE:CD2	1.95	1.00
16:P:343:THR:HB	16:P:347:SER:H	1.22	1.00
15:O:202:ILE:H	15:O:202:ILE:HD12	1.22	1.00
17:Q:302:ARG:CG	17:Q:303:THR:H	1.73	1.00
2:B:1132:SER:HB3	2:B:1163:GLN:HB3	1.44	1.00
15:O:316:ALA:O	15:O:340:LYS:NZ	1.94	1.00
15:O:715:TYR:CE1	15:O:734:LYS:CG	2.15	1.00
1:A:81:LEU:CD1	1:A:359:VAL:N	2.04	1.00
16:P:257:VAL:CB	16:P:262:LEU:HD12	1.92	1.00
16:P:335:THR:HA	16:P:338:LEU:HD12	1.44	1.00
17:Q:133:LYS:HG3	17:Q:286:GLN:HB3	1.37	0.99
1:A:790:LYS:CD	1:A:791:TYR:CZ	2.44	0.99
2:B:815:ARG:NH1	2:B:818:GLY:N	2.10	0.99
7:G:167:THR:O	7:G:218:VAL:N	1.95	0.99
15:O:583:GLU:CG	15:O:584:ARG:N	1.92	0.99
16:P:247:ILE:O	16:P:284:LEU:O	1.79	0.99
9:I:20:PRO:HG3	9:I:37:TYR:HD2	1.25	0.99
15:O:326:ILE:HB	15:O:344:ILE:HG21	1.44	0.99
16:P:494:SER:C	16:P:496:GLU:H	1.69	0.99
1:A:507:TYR:OH	1:A:641:GLU:OE2	1.78	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:45:LEU:HD13	7:G:47:VAL:HG13	1.42	0.99
16:P:354:LYS:HZ2	16:P:362:THR:CG2	1.74	0.99
17:Q:247:ILE:CG1	17:Q:248:LYS:N	2.21	0.99
12:L:48:CYS:CB	12:L:51:CYS:SG	2.49	0.99
15:O:222:GLN:C	15:O:225:LEU:CD2	2.27	0.99
15:O:380:MET:HB2	15:O:394:VAL:HG22	1.39	0.99
2:B:1182:LEU:HA	2:B:1185:LEU:HB2	1.42	0.99
9:I:28:VAL:H	9:I:37:TYR:N	1.60	0.99
15:O:740:ILE:HG22	16:P:250:GLN:CG	1.92	0.99
5:E:9:ILE:HG21	5:E:43:LYS:HG2	1.45	0.99
9:I:27:ASN:HB3	9:I:39:LYS:CB	1.93	0.99
9:I:28:VAL:HB	9:I:37:TYR:HB2	1.21	0.99
14:N:96:GLU:HA	14:N:105:SER:CB	1.91	0.99
15:O:393:VAL:CG1	17:Q:144:VAL:HG22	1.91	0.99
15:O:573:GLU:O	16:P:499:LYS:HE3	1.60	0.99
16:P:116:ILE:HA	16:P:119:LEU:HD12	1.45	0.99
15:O:319:ASP:OD1	15:O:348:HIS:HE1	1.38	0.99
15:O:326:ILE:CB	15:O:344:ILE:HG21	1.93	0.99
17:Q:398:ASP:OD2	17:Q:401:ILE:HD12	1.63	0.99
14:N:96:GLU:OE1	14:N:107:MET:HB3	1.63	0.99
15:O:353:ASP:OD2	17:Q:32:ASP:OD1	1.79	0.99
16:P:104:PHE:HE1	16:P:215:LEU:CD2	1.75	0.99
17:Q:302:ARG:NH2	17:Q:303:THR:CG2	2.26	0.99
2:B:1117:VAL:HB	2:B:1153:ILE:HG23	1.43	0.98
15:O:194:ARG:CG	15:O:197:ARG:NH1	2.25	0.98
16:P:166:TYR:O	16:P:170:THR:HG23	1.62	0.98
16:P:402:MET:CA	16:P:406:GLN:OE1	2.11	0.98
1:A:1154:LEU:HA	1:A:1157:SER:OG	0.81	0.98
16:P:193:PHE:O	16:P:217:GLY:HA3	1.61	0.98
16:P:294:HIS:HA	20:T:48:DA:N6	1.78	0.98
17:Q:285:VAL:HG21	17:Q:302:ARG:CZ	1.93	0.98
15:O:260:LEU:CD2	15:O:273:ARG:O	2.10	0.98
15:O:732:LEU:O	15:O:735:GLU:CG	2.05	0.98
15:O:726:SER:HB2	16:P:264:PRO:HG2	1.00	0.98
16:P:378:LEU:HD21	17:Q:234:LYS:HB3	1.44	0.98
1:A:81:LEU:HD23	1:A:81:LEU:H	1.25	0.98
1:A:461:GLU:CG	1:A:1618:THR:CB	2.30	0.98
1:A:920:PHE:O	1:A:922:CYS:N	1.95	0.98
9:I:23:VAL:HG11	9:I:28:VAL:HG23	1.00	0.98
15:O:380:MET:CB	15:O:394:VAL:CG2	2.27	0.98
15:O:616:SER:C	15:O:618:ASP:N	2.07	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:704:LEU:C	15:O:706:GLU:N	2.16	0.98
15:O:768:TYR:HB2	16:P:145:ASN:HD21	0.83	0.98
15:O:772:ILE:HD11	16:P:138:LEU:HD21	1.44	0.98
16:P:195:ALA:CA	16:P:216:GLU:HB3	1.90	0.98
16:P:284:LEU:CD2	16:P:305:ARG:HH11	1.74	0.98
1:A:85:CYS:HA	1:A:431:GLN:HE22	1.26	0.98
1:A:438:ILE:HD13	2:B:1184:TYR:CZ	1.97	0.98
1:A:1242:ILE:HD11	1:A:1517:ARG:HB3	1.44	0.98
15:O:371:LYS:HD2	15:O:432:PRO:HG3	1.45	0.98
1:A:365:THR:HG22	1:A:369:LEU:HD23	1.43	0.98
15:O:348:HIS:CG	15:O:349:GLY:H	1.81	0.98
15:O:653:SER:HB2	15:O:748:GLU:CB	1.78	0.98
16:P:157:HIS:CE1	16:P:229:LYS:CG	2.47	0.98
16:P:171:HIS:NE2	16:P:243:PHE:CD1	2.17	0.98
1:A:920:PHE:CZ	1:A:930:LEU:HD22	1.95	0.98
9:I:23:VAL:HG21	9:I:38:PRO:HG3	1.43	0.98
15:O:650:LEU:HD22	16:P:139:LYS:HD2	0.98	0.98
16:P:280:ASP:O	16:P:281:ILE:CD1	2.11	0.98
17:Q:277:ILE:C	17:Q:278:TYR:HD1	1.70	0.98
15:O:663:LEU:HD12	15:O:742:TRP:CH2	1.99	0.98
17:Q:274:MET:C	17:Q:277:ILE:HG22	1.89	0.98
1:A:1243:TRP:HB2	1:A:1246:VAL:HG23	1.46	0.97
10:J:7:CYS:HA	10:J:49:MET:HE3	1.42	0.97
15:O:275:GLU:O	15:O:284:VAL:CG1	2.12	0.97
15:O:347:LEU:HD13	17:Q:151:PRO:O	1.64	0.97
15:O:740:ILE:HB	16:P:250:GLN:CB	1.93	0.97
17:Q:158:THR:HG23	17:Q:161:ASN:H	1.29	0.97
2:B:143:TRP:HB3	2:B:152:LEU:HB2	1.46	0.97
8:H:104:PHE:HE1	8:H:114:VAL:HG13	1.28	0.97
5:E:14:ARG:HH22	5:E:141:VAL:HG13	1.30	0.97
15:O:172:PHE:CE1	17:Q:186:LEU:HB2	1.98	0.97
15:O:260:LEU:HD11	15:O:272:PHE:H	1.26	0.97
15:O:353:ASP:OD1	15:O:354:PRO:HD3	1.64	0.97
15:O:375:PHE:HD2	15:O:380:MET:CG	1.77	0.97
15:O:390:GLN:HB2	17:Q:151:PRO:HG3	1.46	0.97
15:O:421:ILE:CG2	15:O:439:LYS:HG3	1.94	0.97
15:O:568:ILE:CG2	15:O:570:ASP:CB	2.42	0.97
15:O:702:LEU:CD1	16:P:174:LEU:CB	2.42	0.97
5:E:127:ILE:O	5:E:129:PRO:CD	1.86	0.97
7:G:88:LYS:HB2	7:G:119:HIS:HB2	1.45	0.97
15:O:581:ALA:O	15:O:585:GLU:HB3	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:143:THR:HG23	16:P:236:MET:HE1	1.46	0.97
16:P:200:PRO:HB3	16:P:203:TRP:CB	1.92	0.97
16:P:383:LYS:O	16:P:386:LEU:HD23	0.80	0.97
15:O:383:ILE:HA	15:O:390:GLN:HG2	1.46	0.97
15:O:421:ILE:HG21	15:O:439:LYS:CG	1.93	0.97
15:O:16:UNK:HA	15:O:20:UNK:CB	1.94	0.97
15:O:326:ILE:HB	15:O:344:ILE:CG2	1.94	0.97
16:P:344:THR:OG1	16:P:438:PHE:N	1.93	0.97
9:I:30:CYS:HB2	9:I:33:CYS:SG	2.05	0.97
15:O:194:ARG:CG	15:O:197:ARG:HH12	1.77	0.97
15:O:353:ASP:N	15:O:354:PRO:CD	2.27	0.97
15:O:620:ASP:CG	15:O:674:GLU:CG	2.37	0.97
16:P:209:ASN:ND2	16:P:211:TYR:HE2	1.63	0.97
1:A:1200:MET:HG2	1:A:1573:TYR:CD2	2.00	0.97
15:O:14:UNK:CB	15:O:439:LYS:H	1.76	0.97
1:A:65:CYS:CB	1:A:75:HIS:NE2	2.10	0.97
14:N:25:ILE:CG2	14:N:26:PRO:HD3	1.93	0.97
15:O:647:GLU:O	15:O:649:ILE:HD13	1.65	0.97
16:P:257:VAL:HG12	16:P:262:LEU:HD12	0.97	0.97
19:S:24:DG:N1	20:T:31:DC:N3	2.13	0.97
15:O:366:PHE:HE2	15:O:432:PRO:HA	0.82	0.97
15:O:660:LYS:HA	15:O:663:LEU:HB2	1.46	0.97
15:O:701:HIS:ND1	16:P:123:MET:CA	2.28	0.97
17:Q:310:ILE:CG2	17:Q:363:GLU:OE1	2.13	0.97
2:B:814:ASN:O	2:B:816:ASN:ND2	1.98	0.96
15:O:669:PHE:CE1	15:O:738:LYS:HE2	1.98	0.96
17:Q:302:ARG:HG3	17:Q:303:THR:N	1.77	0.96
19:S:22:DG:N1	20:T:33:DC:N3	2.13	0.96
4:D:47:LYS:NZ	7:G:84:TYR:OH	1.98	0.96
1:A:1039:ARG:HD2	6:F:139:PRO:HG2	1.48	0.96
1:A:1296:PHE:N	1:A:1468:LYS:O	1.96	0.96
15:O:24:UNK:HA	17:Q:314:TRP:HH2	1.20	0.96
15:O:353:ASP:N	15:O:354:PRO:HD2	1.81	0.96
16:P:183:LYS:HG3	16:P:189:LYS:HZ1	1.29	0.96
16:P:258:MET:HG2	16:P:262:LEU:HD22	1.46	0.96
2:B:811:LEU:HD11	2:B:899:GLN:CD	1.90	0.96
17:Q:274:MET:CA	17:Q:277:ILE:CG2	2.42	0.96
9:I:37:TYR:HB3	9:I:38:PRO:CD	1.96	0.96
15:O:414:ILE:HD12	15:O:425:GLY:HA3	1.44	0.96
16:P:104:PHE:CE1	16:P:215:LEU:HD22	2.00	0.96
16:P:119:LEU:CD2	16:P:165:LEU:HD11	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:212:VAL:CA	16:P:215:LEU:HD21	1.95	0.96
16:P:239:PHE:O	16:P:243:PHE:HD2	1.49	0.96
16:P:496:GLU:O	16:P:500:ASP:N	1.98	0.96
9:I:27:ASN:HB2	9:I:39:LYS:H	1.29	0.96
3:C:146:ALA:CB	3:C:151:THR:CG2	1.92	0.96
10:J:36:LEU:HD22	10:J:41:LEU:HD12	1.47	0.96
15:O:736:ILE:HG12	16:P:268:PHE:HE1	1.28	0.96
16:P:106:LYS:CE	16:P:203:TRP:HH2	1.78	0.96
16:P:343:THR:CB	16:P:347:SER:H	1.79	0.96
1:A:654:ASP:HB3	1:A:803:PRO:HB2	1.48	0.96
1:A:1628:ASP:HB2	1:A:1630:GLU:HG2	1.47	0.96
15:O:431:ASP:OD2	15:O:433:VAL:HG13	1.65	0.96
16:P:158:MET:O	16:P:192:TYR:HE1	1.46	0.96
17:Q:133:LYS:CE	17:Q:134:PRO:HD3	1.96	0.96
1:A:964:LYS:NZ	1:A:969:PHE:O	1.98	0.96
1:A:1112:PRO:HB2	1:A:1114:TYR:CE1	2.01	0.96
15:O:12:UNK:CB	15:O:439:LYS:HZ2	1.71	0.96
15:O:347:LEU:CD2	17:Q:151:PRO:O	2.14	0.96
15:O:568:ILE:CG2	15:O:570:ASP:CG	2.39	0.96
15:O:656:HIS:HB2	15:O:747:LEU:C	1.90	0.96
16:P:208:PRO:HB3	16:P:212:VAL:HB	1.46	0.96
1:A:81:LEU:HD11	1:A:357:MET:C	1.89	0.96
15:O:214:LEU:HD13	15:O:263:ILE:HD13	1.48	0.96
15:O:314:GLN:CA	15:O:329:ILE:HG13	1.94	0.96
15:O:583:GLU:CD	15:O:584:ARG:N	2.12	0.96
15:O:589:ILE:CG2	16:P:320:PHE:CE2	2.49	0.96
15:O:740:ILE:CB	16:P:250:GLN:HB2	1.95	0.96
17:Q:133:LYS:HG3	17:Q:286:GLN:CA	1.96	0.96
17:Q:295:PRO:O	17:Q:297:PHE:N	1.98	0.96
1:A:26:ASN:O	2:B:1134:ARG:NH2	1.98	0.95
8:H:6:PHE:O	8:H:59:ILE:N	1.99	0.95
15:O:366:PHE:CD2	15:O:432:PRO:HB2	1.97	0.95
15:O:589:ILE:HB	16:P:320:PHE:CE2	1.99	0.95
15:O:650:LEU:HB2	16:P:242:PHE:CE2	1.80	0.95
16:P:143:THR:CB	16:P:236:MET:CE	2.44	0.95
16:P:413:LEU:CD1	17:Q:273:TRP:HZ2	1.75	0.95
15:O:440:HIS:CE1	15:O:481:PHE:CE1	2.55	0.95
15:O:604:ILE:HA	15:O:732:LEU:HD22	1.48	0.95
16:P:289:ARG:O	16:P:291:ASP:OD1	1.84	0.95
16:P:341:ARG:HH11	16:P:445:ARG:HH21	1.12	0.95
13:M:77:VAL:HG21	14:N:64:ILE:HG13	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:353:ASP:OD2	17:Q:28:SER:O	1.81	0.95
15:O:472:ARG:HH22	17:Q:200:THR:H	1.00	0.95
15:O:569:VAL:CG2	16:P:478:ARG:HA	1.96	0.95
5:E:83:CYS:HB3	5:E:112:TYR:HA	1.48	0.95
15:O:346:ASN:O	15:O:347:LEU:CG	2.14	0.95
15:O:721:CYS:HA	15:O:724:LEU:HD21	1.48	0.95
17:Q:279:SER:C	17:Q:301:SER:HB2	1.91	0.95
2:B:529:CYS:HB2	2:B:698:SER:HB3	1.46	0.95
14:N:172:ALA:HB3	14:N:175:TYR:HD2	1.32	0.95
15:O:373:LEU:HB3	15:O:375:PHE:CE1	2.00	0.95
15:O:746:ARG:HH22	16:P:244:ASN:CB	1.79	0.95
16:P:363:SER:O	16:P:366:TYR:CB	2.15	0.95
17:Q:200:THR:O	17:Q:203:SER:OG	1.84	0.95
17:Q:282:SER:N	17:Q:301:SER:O	1.99	0.95
14:N:70:LEU:HG	14:N:72:VAL:HG13	1.45	0.95
15:O:18:UNK:CB	17:Q:253:ILE:CD1	2.44	0.95
17:Q:229:TRP:O	17:Q:233:TYR:CD2	2.19	0.95
17:Q:362:ALA:O	17:Q:364:VAL:N	2.00	0.95
1:A:257:ASN:O	1:A:261:ILE:N	2.00	0.95
15:O:10:UNK:O	17:Q:141:TRP:HB2	1.65	0.95
15:O:247:ILE:HG12	15:O:261:VAL:HG22	1.45	0.95
15:O:662:LEU:HD23	15:O:662:LEU:H	1.27	0.95
16:P:416:ILE:C	16:P:418:PRO:HD2	1.87	0.95
1:A:1112:PRO:CB	1:A:1114:TYR:CE2	2.41	0.95
4:D:95:ASP:CG	7:G:150:HIS:HA	1.92	0.95
9:I:10:CYS:N	9:I:15:ASP:O	1.98	0.95
15:O:649:ILE:O	15:O:650:LEU:O	1.85	0.95
2:B:1105:ARG:HD3	2:B:1167:PHE:HB2	1.49	0.95
4:D:23:HIS:O	7:G:44:ALA:N	2.00	0.95
4:D:85:SER:HB3	7:G:71:MET:HG3	1.46	0.95
15:O:222:GLN:HB2	15:O:225:LEU:CD1	1.96	0.95
15:O:266:GLU:O	15:O:300:LEU:CD1	2.15	0.95
16:P:375:LEU:HD12	17:Q:231:LEU:HD21	1.49	0.95
1:A:67:LEU:HB2	1:A:72:CYS:HB2	1.47	0.95
15:O:357:LEU:CD1	17:Q:20:LYS:HZ2	1.77	0.95
15:O:380:MET:HB2	15:O:394:VAL:HG21	1.21	0.95
1:A:748:ASN:OD1	1:A:773:ASP:N	2.00	0.94
1:A:833:LEU:HA	1:A:944:MET:HE2	1.48	0.94
1:A:1070:LEU:HD23	1:A:1154:LEU:HD21	1.48	0.94
2:B:215:MET:HE3	2:B:217:ILE:HG21	1.49	0.94
2:B:455:GLU:OE1	2:B:455:GLU:N	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:811:LEU:CD1	2:B:899:GLN:CB	1.86	0.94
15:O:616:SER:OG	15:O:620:ASP:CB	2.10	0.94
16:P:294:HIS:CA	20:T:48:DA:N6	2.29	0.94
16:P:497:GLN:HG2	16:P:498:LEU:N	1.81	0.94
15:O:366:PHE:CZ	15:O:432:PRO:O	2.18	0.94
15:O:433:VAL:CB	17:Q:144:VAL:HB	1.96	0.94
7:G:242:VAL:HG23	7:G:243:VAL:N	1.78	0.94
15:O:260:LEU:HD11	15:O:272:PHE:N	1.81	0.94
16:P:183:LYS:CG	16:P:189:LYS:HZ1	1.79	0.94
1:A:658:LEU:HD22	1:A:665:PRO:HA	1.38	0.94
14:N:88:LYS:O	14:N:140:SER:OG	1.83	0.94
15:O:696:PHE:CB	15:O:711:LEU:CD1	2.32	0.94
15:O:724:LEU:HD11	16:P:443:GLN:O	1.68	0.94
16:P:385:PHE:CE2	17:Q:212:HIS:HD2	1.85	0.94
16:P:419:LEU:CD1	16:P:420:ASP:N	2.25	0.94
16:P:494:SER:OG	16:P:497:GLN:CA	2.16	0.94
17:Q:208:TYR:HA	17:Q:211:ARG:HD3	1.48	0.94
1:A:406:LEU:HD22	1:A:416:ARG:CG	1.97	0.94
15:O:393:VAL:O	15:O:394:VAL:HG22	1.67	0.94
15:O:656:HIS:O	15:O:747:LEU:HB2	1.68	0.94
17:Q:277:ILE:HD11	17:Q:278:TYR:CE1	1.98	0.94
17:Q:294:VAL:N	17:Q:295:PRO:HD3	1.82	0.94
17:Q:352:TRP:CZ3	17:Q:357:PRO:HG2	2.02	0.94
1:A:525:ASN:HB3	1:A:529:LYS:HB3	1.47	0.94
2:B:832:TRP:CZ3	2:B:834:LYS:HA	2.02	0.94
5:E:128:PRO:N	5:E:129:PRO:CD	2.30	0.94
15:O:293:TYR:HB2	15:O:295:VAL:HG23	1.50	0.94
15:O:388:ASN:C	17:Q:150:GLN:OE1	2.10	0.94
16:P:371:GLU:O	16:P:374:THR:HB	1.68	0.94
17:Q:354:LEU:HG	17:Q:359:MET:H	1.31	0.94
1:A:81:LEU:CD1	1:A:358:ASP:CA	2.46	0.94
15:O:375:PHE:CD2	15:O:380:MET:CG	2.51	0.94
15:O:596:ILE:HG23	16:P:317:MET:CE	1.97	0.94
16:P:204:ARG:O	16:P:208:PRO:HG3	1.66	0.94
16:P:337:SER:HA	16:P:448:LYS:HE2	1.47	0.94
16:P:402:MET:HB3	16:P:407:LYS:H	1.32	0.94
16:P:412:LYS:O	16:P:415:LYS:HB3	1.65	0.94
1:A:600:MET:HE2	2:B:1079:LEU:HD21	1.50	0.94
5:E:128:PRO:N	5:E:129:PRO:HD2	1.81	0.94
7:G:135:GLY:O	7:G:228:LYS:HA	1.67	0.94
9:I:8:ILE:CB	9:I:37:TYR:OH	2.15	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:19:UNK:CB	17:Q:255:VAL:CG2	2.45	0.94
15:O:314:GLN:HG2	15:O:329:ILE:HD12	1.48	0.94
15:O:616:SER:HB2	15:O:620:ASP:HB3	1.48	0.94
1:A:1504:ILE:HD11	1:A:1525:ASN:HB3	1.50	0.94
15:O:615:ASN:HB3	15:O:617:HIS:HD2	1.26	0.94
16:P:108:PHE:CE2	16:P:137:TRP:CZ3	2.56	0.94
1:A:9:SER:HA	2:B:1194:ILE:HD12	1.48	0.94
1:A:101:SER:CA	1:A:108:PHE:CD1	2.45	0.94
1:A:665:PRO:HD2	1:A:790:LYS:N	1.83	0.94
9:I:41:GLN:CD	9:I:43:SER:H	1.76	0.94
15:O:471:MET:SD	15:O:542:ARG:NH1	2.41	0.94
15:O:663:LEU:CD1	15:O:742:TRP:CH2	2.49	0.94
16:P:386:LEU:N	16:P:387:PRO:CD	2.31	0.94
17:Q:353:VAL:CA	17:Q:358:PHE:CD1	1.85	0.94
1:A:920:PHE:CB	1:A:921:PRO:CD	2.44	0.93
2:B:854:GLU:HA	2:B:874:TYR:HD2	1.32	0.93
4:D:30:HIS:HB3	7:G:36:ASN:HD22	1.31	0.93
16:P:100:ALA:HB1	16:P:211:TYR:HE2	1.20	0.93
16:P:125:PHE:HE2	16:P:129:PHE:CD2	1.81	0.93
16:P:257:VAL:CG1	16:P:262:LEU:CD1	2.42	0.93
16:P:414:TYR:HB3	17:Q:241:ARG:NH2	1.75	0.93
15:O:214:LEU:CD1	15:O:263:ILE:HD13	1.98	0.93
15:O:273:ARG:HB3	15:O:287:SER:H	1.32	0.93
15:O:440:HIS:CE1	15:O:481:PHE:CZ	2.55	0.93
16:P:417:PHE:HE1	17:Q:258:LEU:CD1	1.66	0.93
1:A:801:TYR:HB3	1:A:805:VAL:HG21	1.49	0.93
8:H:56:THR:HB	8:H:145:ARG:HB3	1.47	0.93
15:O:436:ILE:CG2	17:Q:141:TRP:CH2	2.51	0.93
15:O:440:HIS:HD1	15:O:481:PHE:HZ	0.94	0.93
15:O:656:HIS:CG	15:O:747:LEU:C	2.46	0.93
15:O:760:ILE:HD11	16:P:142:LYS:HB2	1.49	0.93
1:A:1104:TYR:CE2	1:A:1119:LYS:HG2	2.02	0.93
1:A:1113:HIS:O	1:A:1116:GLN:HG3	1.68	0.93
9:I:41:GLN:OE1	9:I:43:SER:HA	1.67	0.93
15:O:309:PRO:CG	15:O:365:TRP:NE1	2.32	0.93
15:O:511:ILE:HG22	15:O:513:THR:H	1.32	0.93
15:O:583:GLU:OE1	15:O:584:ARG:N	2.01	0.93
7:G:62:MET:HA	7:G:66:LEU:HB2	1.50	0.93
15:O:616:SER:C	15:O:618:ASP:H	1.52	0.93
15:O:721:CYS:O	15:O:724:LEU:HD21	1.66	0.93
17:Q:349:ILE:O	17:Q:358:PHE:CZ	2.20	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1137:ASP:O	2:B:1140:LYS:CG	2.17	0.93
15:O:347:LEU:HB2	17:Q:152:ILE:C	1.92	0.93
15:O:434:ARG:N	17:Q:144:VAL:HG21	1.83	0.93
16:P:104:PHE:CD1	16:P:211:TYR:C	2.47	0.93
16:P:294:HIS:CG	20:T:48:DA:H62	1.85	0.93
17:Q:280:SER:HG	17:Q:300:GLY:C	1.76	0.93
7:G:97:LYS:O	7:G:98:GLU:HB2	1.68	0.93
15:O:299:ASP:CA	17:Q:159:TYR:HB2	1.98	0.93
16:P:200:PRO:HB3	16:P:203:TRP:CD1	2.02	0.93
16:P:421:ARG:C	16:P:422:GLU:OE1	2.12	0.93
9:I:2:SER:O	9:I:9:PHE:N	2.00	0.93
15:O:373:LEU:HB3	15:O:375:PHE:HZ	1.13	0.93
15:O:428:GLU:OE2	15:O:435:ARG:CA	2.17	0.93
15:O:436:ILE:HG21	17:Q:141:TRP:CH2	2.03	0.93
15:O:589:ILE:HG23	16:P:316:TRP:CE3	2.03	0.93
15:O:648:SER:OG	15:O:759:GLU:OE1	1.86	0.93
16:P:294:HIS:CA	20:T:48:DA:H62	1.82	0.93
1:A:1447:GLN:NE2	1:A:1459:LYS:HA	1.84	0.93
15:O:187:ILE:C	15:O:199:GLY:HA3	1.94	0.93
15:O:390:GLN:OE1	17:Q:151:PRO:CG	2.17	0.93
15:O:446:ASP:OD1	15:O:447:THR:N	2.01	0.93
16:P:208:PRO:HB3	16:P:212:VAL:CB	1.98	0.93
16:P:341:ARG:NH1	16:P:445:ARG:HH21	1.65	0.93
3:C:146:ALA:CA	3:C:151:THR:HG21	1.98	0.93
3:C:230:LEU:HB2	3:C:297:HIS:HD2	1.33	0.93
15:O:347:LEU:HB2	17:Q:152:ILE:CA	1.95	0.93
15:O:724:LEU:CD1	16:P:446:TYR:HB2	1.99	0.93
16:P:184:TRP:CD1	16:P:190:MET:CB	2.51	0.93
16:P:200:PRO:HB2	16:P:203:TRP:HB2	1.51	0.93
16:P:469:PRO:CB	16:P:470:PRO:HD3	1.95	0.93
2:B:568:LEU:HD23	14:N:141:GLU:HB3	1.49	0.92
15:O:599:LYS:HD3	16:P:272:GLN:HE21	1.12	0.92
16:P:104:PHE:CE1	16:P:211:TYR:O	2.21	0.92
1:A:109:ARG:HB3	1:A:230:ARG:CG	1.99	0.92
15:O:260:LEU:CD2	15:O:273:ARG:HA	1.89	0.92
15:O:399:TRP:HE1	17:Q:134:PRO:HG3	0.77	0.92
16:P:294:HIS:CB	20:T:48:DA:N6	2.32	0.92
17:Q:354:LEU:CB	17:Q:359:MET:N	2.33	0.92
1:A:755:ILE:HD13	1:A:780:ILE:HD11	1.50	0.92
16:P:413:LEU:HD11	17:Q:273:TRP:HZ2	1.32	0.92
15:O:641:TRP:CB	15:O:748:GLU:OE2	2.16	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:257:VAL:CG1	16:P:263:PRO:CD	2.43	0.92
1:A:105:CYS:O	1:A:330:LYS:NZ	2.02	0.92
1:A:474:LYS:NZ	2:B:1172:GLU:OE1	2.02	0.92
2:B:611:TRP:HB3	2:B:617:THR:HG21	1.51	0.92
2:B:811:LEU:CD1	2:B:899:GLN:CD	2.42	0.92
16:P:227:TYR:HE2	16:P:301:HIS:HB2	1.14	0.92
16:P:235:GLY:N	16:P:289:ARG:CB	2.33	0.92
1:A:104:PHE:HB2	1:A:238:MET:HG3	1.49	0.92
1:A:1640:ARG:HD3	1:A:1646:LEU:O	1.70	0.92
9:I:28:VAL:CG1	9:I:29:GLU:N	2.33	0.92
11:K:95:HIS:HB3	11:K:98:GLU:CG	2.00	0.92
15:O:294:PHE:HE2	15:O:300:LEU:CA	1.81	0.92
15:O:604:ILE:HG12	15:O:732:LEU:HD21	1.51	0.92
15:O:725:VAL:CG1	16:P:446:TYR:O	2.17	0.92
16:P:171:HIS:CD2	16:P:243:PHE:HD1	1.70	0.92
16:P:183:LYS:CD	16:P:189:LYS:NZ	2.32	0.92
16:P:369:TRP:HH2	16:P:377:PHE:CE1	1.87	0.92
2:B:915:ASP:OD2	2:B:1035:ARG:NE	2.03	0.92
16:P:136:ILE:HD12	16:P:168:ALA:HB2	1.52	0.92
17:Q:158:THR:O	17:Q:159:TYR:C	2.11	0.92
7:G:97:LYS:HZ2	7:G:99:ASP:H	1.14	0.92
15:O:573:GLU:O	16:P:499:LYS:CE	2.17	0.92
16:P:294:HIS:HD2	19:S:7:DT:C4	1.88	0.92
17:Q:21:TYR:HE2	17:Q:124:GLU:CD	1.76	0.92
17:Q:153:ASN:O	17:Q:156:LYS:HG3	1.68	0.92
1:A:109:ARG:HB3	1:A:230:ARG:HG3	1.50	0.92
1:A:791:TYR:O	1:A:795:HIS:HB3	1.69	0.92
10:J:7:CYS:HB3	10:J:10:CYS:SG	2.10	0.92
15:O:205:TYR:CE2	15:O:229:ARG:NH1	2.38	0.92
15:O:297:ILE:O	15:O:297:ILE:HG22	1.67	0.92
15:O:352:PHE:HB3	15:O:354:PRO:HG2	1.52	0.92
16:P:421:ARG:O	16:P:422:GLU:C	2.13	0.92
15:O:217:ALA:HB3	15:O:229:ARG:NH1	1.85	0.91
15:O:354:PRO:HB2	17:Q:131:TYR:CZ	2.05	0.91
15:O:354:PRO:CG	17:Q:131:TYR:OH	2.18	0.91
15:O:422:ILE:HG21	15:O:440:HIS:HE1	1.35	0.91
15:O:659:LEU:HB2	15:O:742:TRP:CZ2	2.05	0.91
1:A:101:SER:HA	1:A:108:PHE:HD1	1.08	0.91
1:A:921:PRO:CG	8:H:19:ARG:HG2	1.91	0.91
2:B:75:ASP:HB2	2:B:440:PHE:CE1	2.05	0.91
9:I:8:ILE:HD13	9:I:37:TYR:CE2	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:725:VAL:CB	16:P:450:THR:HA	2.00	0.91
16:P:125:PHE:HD2	16:P:129:PHE:CD2	1.74	0.91
16:P:402:MET:HB2	16:P:407:LYS:HG3	1.51	0.91
17:Q:274:MET:O	17:Q:277:ILE:CG2	2.18	0.91
1:A:9:SER:CB	2:B:1194:ILE:HD11	1.99	0.91
1:A:831:ASP:OD2	1:A:918:LYS:NZ	2.02	0.91
3:C:222:VAL:HG23	3:C:303:GLU:O	1.69	0.91
8:H:99:GLY:O	8:H:139:ASN:HA	1.68	0.91
15:O:433:VAL:HG12	17:Q:144:VAL:O	1.69	0.91
17:Q:281:LYS:C	17:Q:301:SER:O	2.13	0.91
1:A:790:LYS:C	1:A:795:HIS:ND1	2.27	0.91
16:P:113:LYS:O	16:P:116:ILE:HG13	1.70	0.91
1:A:520:ARG:HG2	1:A:561:LEU:HD12	1.51	0.91
15:O:373:LEU:C	15:O:375:PHE:CE1	2.47	0.91
16:P:354:LYS:HZ2	16:P:362:THR:HG22	0.78	0.91
1:A:960:MET:HE3	1:A:964:LYS:HB2	1.50	0.91
9:I:27:ASN:N	9:I:38:PRO:HB2	1.84	0.91
9:I:41:GLN:OE1	9:I:43:SER:N	2.04	0.91
15:O:395:GLN:CG	15:O:397:LYS:H	1.82	0.91
15:O:421:ILE:CD1	17:Q:138:PHE:HE2	1.80	0.91
15:O:568:ILE:HG21	15:O:570:ASP:CG	1.95	0.91
15:O:616:SER:CB	15:O:620:ASP:N	2.34	0.91
16:P:146:ASP:C	16:P:148:PRO:HD2	1.93	0.91
1:A:658:LEU:CD2	1:A:665:PRO:CB	2.49	0.91
15:O:324:TRP:NE1	15:O:348:HIS:CA	2.34	0.91
17:Q:230:SER:CA	17:Q:233:TYR:CE2	2.45	0.91
17:Q:383:PHE:CZ	17:Q:398:ASP:OD1	2.23	0.91
1:A:1104:TYR:CD2	1:A:1119:LYS:HG2	2.05	0.91
4:D:41:GLU:OE1	4:D:93:GLN:NE2	2.04	0.91
9:I:26:SER:O	9:I:38:PRO:HB2	1.69	0.91
15:O:273:ARG:HH12	15:O:274:ILE:HG23	1.30	0.91
15:O:357:LEU:CG	15:O:377:ARG:CZ	2.45	0.91
15:O:582:ASP:O	15:O:586:LYS:HB2	1.70	0.91
17:Q:21:TYR:CE2	17:Q:124:GLU:CG	2.54	0.91
17:Q:383:PHE:CZ	17:Q:388:LYS:HG2	2.04	0.91
1:A:1114:TYR:O	1:A:1116:GLN:N	2.02	0.91
5:E:106:GLN:O	5:E:130:ALA:HB1	1.70	0.91
15:O:771:ILE:HG23	16:P:109:GLN:OE1	1.70	0.91
9:I:3:VAL:HA	9:I:8:ILE:HA	1.51	0.91
15:O:423:ILE:HG21	17:Q:141:TRP:CZ2	2.05	0.91
15:O:653:SER:OG	15:O:656:HIS:ND1	1.96	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:187:THR:HG1	16:P:189:LYS:HG3	1.36	0.91
3:C:57:ILE:HG12	3:C:297:HIS:ND1	1.86	0.90
14:N:78:THR:HB	14:N:89:ILE:HB	1.52	0.90
15:O:421:ILE:HA	15:O:441:ASP:HA	1.49	0.90
15:O:623:LEU:HD12	15:O:668:SER:CB	2.01	0.90
16:P:177:TYR:CZ	16:P:226:LEU:CD2	2.47	0.90
16:P:492:ALA:O	16:P:493:ILE:HD12	1.71	0.90
17:Q:136:LYS:CB	17:Q:304:HIS:CD2	2.41	0.90
2:B:819:ASP:CB	2:B:820:PRO:CD	2.41	0.90
2:B:820:PRO:O	2:B:822:THR:HG23	1.70	0.90
5:E:53:PRO:HB2	5:E:58:MET:SD	2.11	0.90
7:G:100:THR:CG2	7:G:102:GLU:O	2.18	0.90
15:O:314:GLN:HE21	15:O:331:LYS:HA	1.28	0.90
1:A:81:LEU:HD11	1:A:358:ASP:N	1.85	0.90
2:B:443:LYS:NZ	2:B:446:MET:SD	2.44	0.90
9:I:28:VAL:HB	9:I:37:TYR:HB3	0.91	0.90
15:O:10:UNK:CB	17:Q:142:ARG:N	2.32	0.90
15:O:216:ILE:N	15:O:234:THR:OG1	2.03	0.90
15:O:316:ALA:HB3	15:O:340:LYS:HD3	1.50	0.90
1:A:62:CYS:HB3	1:A:65:CYS:SG	2.11	0.90
1:A:403:LEU:HD23	1:A:407:GLN:OE1	1.69	0.90
1:A:658:LEU:HD22	1:A:665:PRO:N	1.84	0.90
13:M:15:VAL:HG22	13:M:90:LEU:HD12	1.52	0.90
15:O:700:LEU:HD11	15:O:711:LEU:HA	1.51	0.90
16:P:100:ALA:CA	16:P:211:TYR:OH	2.19	0.90
16:P:320:PHE:HE1	16:P:322:ARG:HH21	1.07	0.90
17:Q:16:ARG:HH22	17:Q:199:LYS:HZ3	1.19	0.90
1:A:111:LYS:HG3	1:A:114:GLU:HB3	1.53	0.90
1:A:1037:SER:OG	1:A:1039:ARG:NH1	2.05	0.90
2:B:307:GLU:HB2	9:I:7:LEU:HD11	1.53	0.90
15:O:309:PRO:O	15:O:368:HIS:CD2	2.24	0.90
15:O:648:SER:O	15:O:650:LEU:N	2.04	0.90
16:P:95:LEU:HD22	16:P:100:ALA:HA	1.52	0.90
16:P:184:TRP:CZ2	16:P:192:TYR:CD2	2.59	0.90
17:Q:143:THR:O	17:Q:144:VAL:CG2	2.20	0.90
17:Q:381:ARG:O	17:Q:384:VAL:CG2	2.18	0.90
2:B:895:PHE:CZ	2:B:899:GLN:HB2	2.05	0.90
15:O:301:GLN:O	15:O:320:ILE:CG1	2.20	0.90
15:O:380:MET:SD	15:O:394:VAL:HG11	2.12	0.90
15:O:401:ASN:H	15:O:419:ARG:HG2	1.35	0.90
1:A:67:LEU:CB	1:A:72:CYS:HB2	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:LYS:HG3	1:A:114:GLU:N	1.85	0.90
1:A:1263:LEU:N	1:A:1496:SER:O	2.05	0.90
13:M:54:HIS:NE2	13:M:61:GLU:OE2	2.04	0.90
13:M:62:TYR:HB3	13:M:100:VAL:HG22	1.53	0.90
15:O:423:ILE:HD13	17:Q:141:TRP:CZ2	2.05	0.90
15:O:431:ASP:OD2	15:O:433:VAL:CG1	2.19	0.90
16:P:284:LEU:CD1	16:P:305:ARG:HH11	1.84	0.90
1:A:790:LYS:CD	1:A:791:TYR:CE2	2.55	0.90
15:O:273:ARG:HG3	15:O:274:ILE:N	1.84	0.90
15:O:352:PHE:C	15:O:354:PRO:CD	2.43	0.90
15:O:357:LEU:CG	15:O:377:ARG:HH21	1.68	0.90
1:A:530:TRP:O	1:A:532:GLY:N	2.05	0.90
19:S:23:DG:N1	20:T:32:DC:N3	2.19	0.90
15:O:374:VAL:C	15:O:375:PHE:CD1	2.49	0.90
15:O:380:MET:HG3	15:O:394:VAL:HG21	1.53	0.90
17:Q:355:THR:O	17:Q:359:MET:CG	2.05	0.90
1:A:1315:ASN:OD1	1:A:1319:ASN:ND2	2.05	0.89
9:I:26:SER:O	9:I:38:PRO:CB	2.20	0.89
15:O:206:ALA:HA	15:O:214:LEU:HD23	1.53	0.89
15:O:573:GLU:CA	16:P:499:LYS:HZ2	1.79	0.89
15:O:620:ASP:HA	15:O:674:GLU:OE1	1.72	0.89
16:P:227:TYR:CZ	16:P:304:LEU:HD11	2.01	0.89
17:Q:348:LYS:O	17:Q:352:TRP:NE1	2.06	0.89
1:A:591:ARG:NH2	1:A:631:ASP:CG	2.31	0.89
16:P:94:LYS:HB2	16:P:207:LEU:CB	2.02	0.89
16:P:239:PHE:HE1	16:P:246:GLU:HG3	1.36	0.89
16:P:494:SER:CB	16:P:497:GLN:CD	2.46	0.89
17:Q:133:LYS:HD3	17:Q:286:GLN:HA	1.51	0.89
17:Q:354:LEU:HD12	17:Q:358:PHE:C	1.97	0.89
1:A:67:LEU:HB2	1:A:72:CYS:CB	2.03	0.89
2:B:929:ARG:NH1	11:K:97:SER:OG	2.05	0.89
2:B:1151:ILE:HA	2:B:1160:GLU:O	1.71	0.89
15:O:394:VAL:HA	17:Q:141:TRP:HD1	1.37	0.89
16:P:104:PHE:CB	16:P:211:TYR:CE1	2.31	0.89
16:P:274:ILE:O	16:P:278:GLU:HB3	1.72	0.89
1:A:1154:LEU:O	1:A:1158:SER:N	2.04	0.89
2:B:827:PHE:CD2	2:B:869:THR:HG21	2.07	0.89
16:P:294:HIS:NE2	20:T:49:DC:N4	2.20	0.89
17:Q:302:ARG:NH2	17:Q:303:THR:HG23	1.87	0.89
19:S:17:DT:N3	20:T:38:DA:N1	2.19	0.89
1:A:475:ARG:NH1	2:B:1068:GLY:O	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:378:SER:HB3	15:O:397:LYS:HG2	1.54	0.89
17:Q:137:SER:O	17:Q:296:PRO:CG	2.20	0.89
17:Q:200:THR:OG1	17:Q:203:SER:OG	1.90	0.89
1:A:113:VAL:O	1:A:185:ARG:NH1	2.05	0.89
1:A:920:PHE:C	1:A:922:CYS:H	1.77	0.89
15:O:24:UNK:CA	17:Q:314:TRP:CH2	2.55	0.89
15:O:715:TYR:CD1	15:O:734:LYS:HG2	2.05	0.89
16:P:144:ILE:HG23	16:P:154:LEU:HG	1.55	0.89
3:C:151:THR:O	3:C:155:GLU:CB	2.19	0.89
15:O:724:LEU:HD12	16:P:447:ALA:N	1.86	0.89
16:P:122:GLU:OE1	16:P:123:MET:CG	2.20	0.89
16:P:200:PRO:CB	16:P:203:TRP:CB	2.49	0.89
2:B:108:MET:HE1	2:B:120:LYS:HG2	1.52	0.89
2:B:547:HIS:CE1	2:B:548:LYS:HD3	2.08	0.89
2:B:906:ARG:HH11	3:C:93:GLN:HG3	1.36	0.89
8:H:112:ILE:HG21	8:H:131:ASN:ND2	1.88	0.89
16:P:235:GLY:N	16:P:289:ARG:HB2	1.85	0.89
17:Q:246:GLN:O	17:Q:247:ILE:C	2.16	0.89
1:A:49:LEU:HD21	1:A:386:LEU:HD22	1.55	0.89
1:A:721:LYS:CB	1:A:722:PRO:CD	2.51	0.89
2:B:341:SER:HB2	2:B:342:PRO:HD3	1.53	0.89
15:O:194:ARG:HA	15:O:197:ARG:HH21	1.34	0.89
15:O:624:GLN:HA	15:O:678:LEU:HD21	1.54	0.89
16:P:119:LEU:HD11	16:P:165:LEU:HD12	0.90	0.89
16:P:362:THR:HA	16:P:365:ASP:CG	1.97	0.89
16:P:378:LEU:CD1	17:Q:234:LYS:CB	2.51	0.89
16:P:402:MET:HE3	16:P:407:LYS:HG2	0.96	0.89
1:A:1440:ASN:OD1	1:A:1443:GLN:N	2.06	0.89
2:B:390:SER:OG	2:B:634:ARG:O	1.91	0.89
3:C:242:GLU:O	3:C:246:ARG:HB2	1.70	0.89
13:M:9:GLU:HA	14:N:73:ASP:HB3	1.54	0.89
15:O:616:SER:HB2	15:O:620:ASP:H	1.32	0.89
16:P:431:ASP:O	16:P:434:HIS:O	1.91	0.89
1:A:403:LEU:HD21	1:A:407:GLN:NE2	1.86	0.88
7:G:138:PHE:N	7:G:146:GLY:O	2.05	0.88
15:O:568:ILE:HG22	15:O:570:ASP:CB	2.02	0.88
15:O:698:LYS:HE2	16:P:126:PRO:HD3	1.55	0.88
16:P:104:PHE:CD1	16:P:211:TYR:HB2	2.08	0.88
16:P:148:PRO:O	16:P:151:GLU:N	2.05	0.88
1:A:469:LYS:HD2	2:B:1070:ARG:HH11	1.37	0.88
9:I:28:VAL:HG13	9:I:29:GLU:H	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:60:LEU:HB3	13:M:100:VAL:HG12	1.54	0.88
15:O:181:ARG:O	15:O:182:LEU:HG	1.72	0.88
16:P:94:LYS:CB	16:P:207:LEU:CB	2.50	0.88
1:A:1119:LYS:HD2	1:A:1120:TYR:CE1	2.06	0.88
9:I:30:CYS:HB3	9:I:33:CYS:SG	2.09	0.88
15:O:433:VAL:HA	17:Q:144:VAL:HG11	1.52	0.88
15:O:740:ILE:CB	16:P:250:GLN:CB	2.51	0.88
16:P:315:ASN:OD1	16:P:319:SER:HB2	1.73	0.88
17:Q:352:TRP:HE3	17:Q:357:PRO:HG2	1.04	0.88
1:A:83:VAL:HG12	1:A:427:PHE:HE2	1.27	0.88
9:I:8:ILE:HG21	9:I:37:TYR:CE2	2.08	0.88
12:L:31:CYS:HB3	12:L:34:CYS:SG	2.14	0.88
14:N:96:GLU:CD	14:N:107:MET:HB3	1.99	0.88
15:O:309:PRO:CG	15:O:365:TRP:CD1	2.57	0.88
15:O:721:CYS:C	15:O:724:LEU:CD2	2.46	0.88
16:P:362:THR:CA	16:P:365:ASP:OD1	2.21	0.88
17:Q:247:ILE:HG21	17:Q:278:TYR:CD2	2.06	0.88
1:A:79:ILE:N	1:A:360:LEU:O	2.04	0.88
1:A:372:LYS:HD2	1:A:377:VAL:HG22	1.56	0.88
2:B:123:PRO:HG2	2:B:172:LEU:HD11	1.54	0.88
15:O:616:SER:CB	15:O:620:ASP:H	1.86	0.88
16:P:177:TYR:CE1	16:P:226:LEU:CD1	2.57	0.88
16:P:287:TRP:HZ3	16:P:290:THR:HG22	0.71	0.88
2:B:146:ASN:HB3	2:B:149:GLU:HB2	1.56	0.88
16:P:115:GLN:HG3	16:P:190:MET:SD	2.14	0.88
3:C:120:LEU:HD13	3:C:124:GLU:CB	2.03	0.88
14:N:78:THR:OG1	14:N:89:ILE:O	1.89	0.88
15:O:399:TRP:CD1	17:Q:134:PRO:CB	2.56	0.88
15:O:400:SER:HA	15:O:419:ARG:HD3	1.54	0.88
15:O:508:ILE:HG12	15:O:539:VAL:HG12	1.53	0.88
17:Q:388:LYS:NZ	17:Q:392:LEU:O	2.07	0.88
1:A:363:PRO:O	1:A:368:ARG:NH1	2.05	0.88
3:C:309:THR:OG1	3:C:311:GLU:OE2	1.92	0.88
15:O:736:ILE:CB	16:P:268:PHE:CZ	2.55	0.88
16:P:95:LEU:HD23	16:P:96:ILE:H	1.38	0.88
17:Q:280:SER:O	17:Q:301:SER:O	1.85	0.88
5:E:106:GLN:C	5:E:130:ALA:HB1	1.98	0.88
7:G:37:CYS:O	7:G:126:GLN:N	2.06	0.88
13:M:42:LYS:O	14:N:30:LYS:N	2.05	0.88
15:O:693:PHE:CD2	15:O:746:ARG:CB	2.55	0.88
17:Q:133:LYS:HG3	17:Q:286:GLN:CG	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:109:ARG:HD3	1:A:230:ARG:HB3	1.56	0.87
1:A:436:ALA:HB2	1:A:443:ALA:HB2	1.55	0.87
5:E:78:LEU:HD21	5:E:109:ILE:HG12	1.55	0.87
15:O:421:ILE:CG2	15:O:439:LYS:HG2	2.03	0.87
15:O:600:GLU:OE1	16:P:269:TYR:HE1	1.52	0.87
15:O:604:ILE:HA	15:O:732:LEU:CD2	2.04	0.87
15:O:760:ILE:CD1	16:P:142:LYS:HB2	2.04	0.87
16:P:343:THR:O	16:P:345:SER:N	2.07	0.87
16:P:356:VAL:HG13	17:Q:211:ARG:HH21	1.39	0.87
17:Q:133:LYS:HE2	17:Q:134:PRO:HD3	1.53	0.87
1:A:422:ARG:O	1:A:426:ALA:CB	2.22	0.87
1:A:469:LYS:HD2	2:B:1070:ARG:HH12	1.34	0.87
9:I:11:LEU:HD21	13:M:31:ARG:HD3	1.55	0.87
14:N:111:VAL:O	14:N:120:LYS:N	2.07	0.87
15:O:422:ILE:HB	15:O:440:HIS:ND1	1.89	0.87
15:O:442:LEU:CD1	15:O:444:PRO:HD2	2.04	0.87
15:O:698:LYS:HE2	16:P:126:PRO:CG	2.03	0.87
1:A:461:GLU:HG2	1:A:1618:THR:HB	1.56	0.87
3:C:70:ILE:HG12	3:C:74:GLU:OE1	1.74	0.87
15:O:313:GLN:HB2	15:O:315:PHE:CZ	2.07	0.87
16:P:104:PHE:CD2	16:P:155:GLN:HG3	2.10	0.87
5:E:127:ILE:HD11	5:E:132:ILE:HD11	1.54	0.87
13:M:44:LYS:HE2	14:N:30:LYS:CD	2.04	0.87
15:O:203:ILE:O	15:O:216:ILE:HA	1.73	0.87
15:O:309:PRO:HD3	15:O:365:TRP:CD1	2.09	0.87
15:O:422:ILE:C	15:O:439:LYS:HB2	1.99	0.87
16:P:184:TRP:CD1	16:P:190:MET:CG	2.57	0.87
16:P:356:VAL:HG13	17:Q:211:ARG:NH2	1.89	0.87
16:P:422:GLU:OE1	16:P:422:GLU:N	2.08	0.87
16:P:498:LEU:O	16:P:502:ILE:HG12	1.73	0.87
17:Q:248:LYS:HA	17:Q:248:LYS:CE	2.03	0.87
1:A:85:CYS:HA	1:A:431:GLN:NE2	1.88	0.87
1:A:465:GLY:O	1:A:469:LYS:HB3	1.75	0.87
9:I:28:VAL:HB	9:I:37:TYR:CG	2.09	0.87
15:O:326:ILE:O	15:O:342:GLN:HG3	1.73	0.87
15:O:415:LEU:HD21	15:O:451:ILE:HD13	1.56	0.87
15:O:428:GLU:CD	15:O:435:ARG:H	1.82	0.87
17:Q:266:SER:C	17:Q:268:LEU:N	2.31	0.87
7:G:74:ASN:HB3	7:G:77:VAL:CG2	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:589:ILE:HG22	16:P:320:PHE:CE2	2.07	0.87
15:O:705:HIS:O	15:O:706:GLU:HB2	1.75	0.87
16:P:193:PHE:O	16:P:217:GLY:CA	2.23	0.87
1:A:1235:THR:O	1:A:1544:ASN:ND2	2.08	0.87
13:M:12:ILE:HG23	13:M:88:ILE:HD11	1.57	0.87
15:O:357:LEU:CB	15:O:377:ARG:HE	1.86	0.87
15:O:589:ILE:CB	16:P:320:PHE:CE2	2.58	0.87
15:O:616:SER:HA	15:O:620:ASP:H	1.39	0.87
15:O:656:HIS:CD2	15:O:747:LEU:CA	2.57	0.87
16:P:247:ILE:HG21	16:P:302:ALA:HB3	0.93	0.87
16:P:362:THR:O	16:P:365:ASP:CG	2.17	0.87
1:A:109:ARG:HB3	1:A:230:ARG:CB	2.05	0.87
1:A:111:LYS:NZ	1:A:111:LYS:O	2.08	0.87
7:G:28:ILE:HB	7:G:31:LYS:HA	1.55	0.87
15:O:421:ILE:CG1	17:Q:138:PHE:HE2	1.86	0.87
15:O:423:ILE:CG2	17:Q:141:TRP:CH2	2.19	0.87
15:O:500:ILE:HG23	15:O:501:PRO:HD2	1.57	0.87
16:P:198:ILE:HG21	16:P:203:TRP:HB2	1.57	0.87
16:P:247:ILE:HD12	16:P:286:LEU:HA	1.56	0.87
16:P:378:LEU:HD11	17:Q:235:ILE:N	1.90	0.87
17:Q:201:SER:O	17:Q:204:GLU:OE1	1.92	0.87
17:Q:348:LYS:O	17:Q:352:TRP:CD1	2.27	0.87
17:Q:380:SER:O	17:Q:384:VAL:HG22	1.75	0.87
2:B:887:LEU:HG	2:B:898:LEU:HD21	1.57	0.87
15:O:347:LEU:O	15:O:347:LEU:CD1	2.22	0.87
1:A:1114:TYR:C	1:A:1116:GLN:H	1.82	0.86
2:B:733:LEU:HD22	2:B:741:LEU:HD13	1.57	0.86
2:B:817:ARG:O	2:B:819:ASP:OD1	1.93	0.86
9:I:17:LEU:CD1	9:I:37:TYR:CE2	2.31	0.86
9:I:28:VAL:O	9:I:37:TYR:N	2.08	0.86
15:O:669:PHE:O	15:O:738:LYS:CE	2.23	0.86
16:P:94:LYS:HB2	16:P:207:LEU:HB2	1.55	0.86
16:P:222:PHE:H	16:P:225:GLN:HG2	1.38	0.86
1:A:109:ARG:CB	1:A:230:ARG:CB	2.53	0.86
1:A:109:ARG:HH22	1:A:240:SER:HB2	1.38	0.86
9:I:20:PRO:HG3	9:I:37:TYR:CD2	2.09	0.86
15:O:23:UNK:C	17:Q:314:TRP:CZ3	2.57	0.86
15:O:262:GLY:O	15:O:263:ILE:HG13	1.74	0.86
15:O:375:PHE:HD2	15:O:380:MET:CA	1.88	0.86
15:O:399:TRP:NE1	17:Q:134:PRO:CB	2.38	0.86
15:O:698:LYS:CE	16:P:126:PRO:HD2	2.02	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:779:ASP:C	16:P:199:LEU:HD21	2.00	0.86
16:P:100:ALA:HB1	16:P:211:TYR:CZ	2.08	0.86
16:P:372:GLU:O	16:P:373:GLU:C	2.16	0.86
1:A:195:LYS:HG3	1:A:201:ARG:HH21	1.39	0.86
2:B:898:LEU:HB2	12:L:46:VAL:HG21	1.55	0.86
15:O:188:GLN:CA	15:O:199:GLY:HA3	2.05	0.86
15:O:309:PRO:HD2	15:O:365:TRP:CD1	2.08	0.86
15:O:314:GLN:HB2	15:O:329:ILE:HG13	1.53	0.86
1:A:469:LYS:CA	2:B:1070:ARG:HH22	1.87	0.86
1:A:1299:ASN:HA	1:A:1302:TYR:CE2	2.10	0.86
3:C:55:ASP:OD1	3:C:299:ILE:HA	1.75	0.86
8:H:104:PHE:CE2	8:H:136:LYS:HB3	2.09	0.86
9:I:27:ASN:ND2	9:I:39:LYS:HB3	1.91	0.86
15:O:214:LEU:O	15:O:236:ILE:HG12	1.75	0.86
15:O:324:TRP:CD1	15:O:348:HIS:HA	2.11	0.86
15:O:694:ILE:HG13	15:O:695:GLY:N	1.88	0.86
16:P:100:ALA:CB	16:P:211:TYR:CE2	2.58	0.86
16:P:257:VAL:HG12	16:P:262:LEU:HA	1.55	0.86
16:P:485:SER:O	16:P:489:VAL:HG23	1.74	0.86
17:Q:247:ILE:HG12	17:Q:248:LYS:N	1.90	0.86
1:A:61:LEU:HB3	1:A:66:GLY:C	2.00	0.86
2:B:1105:ARG:HB2	2:B:1165:ASN:O	1.75	0.86
5:E:61:GLN:NE2	5:E:77:SER:OG	2.07	0.86
15:O:301:GLN:HB3	15:O:321:LYS:HZ3	1.40	0.86
15:O:772:ILE:HD13	16:P:138:LEU:HD22	1.55	0.86
16:P:402:MET:N	16:P:406:GLN:OE1	2.08	0.86
1:A:674:ILE:HA	1:A:786:TYR:OH	1.74	0.86
2:B:906:ARG:NH1	3:C:93:GLN:HG3	1.90	0.86
5:E:177:ARG:HG3	5:E:215:MET:HB2	1.58	0.86
15:O:273:ARG:NH1	15:O:274:ILE:CG2	2.38	0.86
15:O:382:GLU:OE1	17:Q:144:VAL:CG1	2.23	0.86
15:O:623:LEU:HD12	15:O:668:SER:C	1.98	0.86
15:O:740:ILE:O	15:O:744:LEU:HD13	1.73	0.86
16:P:116:ILE:O	16:P:119:LEU:HB2	1.75	0.86
16:P:184:TRP:HZ2	16:P:192:TYR:HD2	1.24	0.86
16:P:227:TYR:HE2	16:P:301:HIS:CG	1.72	0.86
16:P:330:TRP:CH2	16:P:334:LEU:CD1	2.57	0.86
16:P:330:TRP:CZ2	16:P:334:LEU:HD11	2.11	0.86
16:P:494:SER:CB	16:P:497:GLN:OE1	2.24	0.86
2:B:1105:ARG:HD3	2:B:1167:PHE:CB	2.06	0.86
15:O:14:UNK:CB	15:O:439:LYS:N	2.37	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:378:LEU:HD11	17:Q:234:LYS:CB	2.06	0.86
1:A:81:LEU:HD11	1:A:358:ASP:CA	2.05	0.86
14:N:25:ILE:CG2	14:N:26:PRO:CD	2.53	0.86
15:O:604:ILE:HG12	15:O:732:LEU:HD23	1.57	0.86
15:O:686:TYR:HD1	15:O:689:GLN:HG3	1.39	0.86
16:P:158:MET:HB2	16:P:192:TYR:OH	1.76	0.86
17:Q:353:VAL:HA	17:Q:358:PHE:CD1	1.18	0.86
17:Q:354:LEU:CB	17:Q:358:PHE:C	2.48	0.86
1:A:1640:ARG:HD2	1:A:1647:ASN:HA	1.57	0.86
2:B:290:ASP:OD2	13:M:28:LYS:N	2.07	0.86
2:B:335:ARG:NH1	2:B:346:ASP:OD1	2.08	0.86
2:B:581:PRO:HG3	2:B:637:TYR:CE1	2.10	0.86
2:B:921:HIS:NE2	2:B:965:GLU:OE1	2.09	0.86
15:O:398:ALA:HA	17:Q:128:TRP:HH2	1.36	0.86
15:O:546:GLU:OE1	15:O:548:TYR:OH	1.93	0.86
16:P:94:LYS:HG2	16:P:207:LEU:HD12	1.57	0.86
16:P:104:PHE:CE2	16:P:155:GLN:HG3	2.10	0.86
1:A:174:SER:HB3	1:A:177:LEU:HD13	1.58	0.86
1:A:560:GLN:O	1:A:575:LYS:NZ	2.09	0.86
2:B:1110:ILE:HD12	2:B:1176:VAL:HG22	1.55	0.86
15:O:599:LYS:CD	16:P:272:GLN:HE21	1.87	0.86
15:O:718:LEU:HD23	15:O:734:LYS:CE	2.06	0.86
17:Q:285:VAL:CG2	17:Q:302:ARG:NE	2.30	0.86
17:Q:393:ILE:HD13	17:Q:397:ARG:O	1.74	0.86
7:G:25:THR:HA	7:G:128:GLN:OE1	1.76	0.85
9:I:37:TYR:CB	9:I:38:PRO:HD3	2.06	0.85
1:A:67:LEU:C	1:A:72:CYS:HB2	2.01	0.85
1:A:339:PHE:O	1:A:1629:ASN:ND2	2.09	0.85
2:B:1195:ARG:NH1	2:B:1196:LEU:C	2.34	0.85
15:O:309:PRO:HD3	15:O:365:TRP:CE2	2.11	0.85
16:P:184:TRP:HD1	16:P:190:MET:H	1.18	0.85
16:P:219:ILE:CD1	17:Q:207:ASN:HA	2.02	0.85
16:P:284:LEU:CD1	16:P:302:ALA:HB1	2.00	0.85
17:Q:393:ILE:O	17:Q:395:LEU:CG	2.22	0.85
5:E:54:GLN:HB2	5:E:57:MET:HB3	1.57	0.85
15:O:15:UNK:C	15:O:20:UNK:CB	2.55	0.85
15:O:352:PHE:CA	15:O:354:PRO:HD2	2.06	0.85
15:O:357:LEU:HB2	15:O:377:ARG:NE	1.91	0.85
15:O:405:TYR:CE2	15:O:414:ILE:HG23	2.11	0.85
15:O:434:ARG:CA	17:Q:144:VAL:HG21	2.05	0.85
15:O:438:TRP:HE1	15:O:489:PHE:HB3	1.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:200:PRO:HB3	16:P:203:TRP:CG	2.10	0.85
16:P:239:PHE:CE1	16:P:246:GLU:HG3	2.10	0.85
17:Q:211:ARG:HH12	17:Q:212:HIS:CE1	1.94	0.85
1:A:27:LEU:O	2:B:1129:ARG:NE	2.07	0.85
1:A:111:LYS:HD3	1:A:113:VAL:HG23	0.86	0.85
9:I:8:ILE:HG12	9:I:37:TYR:HH	1.39	0.85
15:O:380:MET:H	15:O:394:VAL:CG2	1.89	0.85
15:O:388:ASN:CB	17:Q:150:GLN:CD	2.50	0.85
15:O:393:VAL:HG11	17:Q:144:VAL:CG2	2.03	0.85
15:O:573:GLU:CA	16:P:499:LYS:HZ1	1.82	0.85
1:A:385:LEU:CG	1:A:453:ILE:HD11	2.07	0.85
11:K:89:CYS:SG	11:K:105:ILE:HG13	2.16	0.85
15:O:314:GLN:NE2	15:O:331:LYS:CA	2.39	0.85
16:P:239:PHE:HE1	16:P:246:GLU:CG	1.88	0.85
17:Q:211:ARG:NH1	17:Q:212:HIS:CE1	2.44	0.85
17:Q:266:SER:O	17:Q:267:GLY:C	2.20	0.85
2:B:289:PHE:HD1	2:B:306:LEU:HD23	1.41	0.85
2:B:552:SER:OG	2:B:648:ARG:N	2.08	0.85
2:B:613:VAL:HB	2:B:658:LEU:HD12	1.57	0.85
3:C:88:ASN:ND2	3:C:94:ASP:OD1	2.10	0.85
7:G:157:ILE:HD13	7:G:249:LEU:HG	1.58	0.85
8:H:104:PHE:CE1	8:H:114:VAL:HG13	2.11	0.85
9:I:28:VAL:CA	9:I:37:TYR:HB2	2.05	0.85
15:O:356:GLU:HA	17:Q:24:ILE:CD1	2.06	0.85
15:O:399:TRP:HE3	17:Q:294:VAL:O	1.56	0.85
16:P:104:PHE:CB	16:P:211:TYR:HD1	1.58	0.85
16:P:106:LYS:O	16:P:109:GLN:HB2	1.77	0.85
1:A:109:ARG:CB	1:A:230:ARG:CG	2.55	0.85
9:I:28:VAL:H	9:I:37:TYR:CA	1.87	0.85
15:O:394:VAL:O	15:O:395:GLN:HB2	1.74	0.85
15:O:472:ARG:NH1	17:Q:203:SER:CB	2.40	0.85
16:P:153:LYS:O	16:P:153:LYS:NZ	2.07	0.85
1:A:88:PRO:HG2	1:A:438:ILE:HG21	1.58	0.85
1:A:676:ALA:HB2	1:A:821:ILE:HD11	1.59	0.85
2:B:815:ARG:NH2	2:B:818:GLY:O	2.10	0.85
3:C:251:PHE:HE1	3:C:279:VAL:HB	1.42	0.85
15:O:438:TRP:HH2	15:O:491:SER:HB2	1.41	0.85
15:O:588:SER:HB3	16:P:512:ARG:NH1	1.91	0.85
15:O:653:SER:CB	15:O:748:GLU:HB3	2.05	0.85
15:O:725:VAL:HG23	16:P:450:THR:C	2.01	0.85
16:P:494:SER:HB2	16:P:497:GLN:HB3	1.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:855:ARG:NH2	1:A:867:ASP:OD1	2.08	0.85
2:B:731:VAL:HA	10:J:60:PHE:HE1	1.40	0.85
11:K:58:GLY:O	11:K:59:THR:HG22	1.75	0.85
14:N:46:LYS:NZ	14:N:124:THR:O	2.10	0.85
15:O:222:GLN:HE22	15:O:228:ASN:N	1.74	0.85
15:O:616:SER:CB	15:O:620:ASP:HB3	2.02	0.85
16:P:289:ARG:O	16:P:291:ASP:N	2.10	0.85
11:K:88:PHE:HB3	11:K:106:GLN:CG	2.07	0.85
15:O:371:LYS:CD	15:O:432:PRO:HG3	2.07	0.85
16:P:402:MET:HA	16:P:406:GLN:CG	1.87	0.85
10:J:23:ASN:O	10:J:27:GLU:N	2.10	0.84
15:O:432:PRO:O	15:O:433:VAL:O	1.94	0.84
15:O:600:GLU:OE2	16:P:268:PHE:HB2	1.77	0.84
16:P:215:LEU:CD1	16:P:216:GLU:OE1	2.25	0.84
16:P:289:ARG:HG3	16:P:291:ASP:OD1	1.75	0.84
17:Q:248:LYS:N	17:Q:298:GLN:NE2	2.19	0.84
17:Q:266:SER:C	17:Q:268:LEU:H	1.84	0.84
17:Q:283:ARG:CB	17:Q:302:ARG:HB2	2.06	0.84
17:Q:360:GLU:O	17:Q:361:ASP:HB3	1.76	0.84
1:A:215:GLU:OE2	1:A:218:LYS:NZ	2.10	0.84
1:A:1294:MET:O	1:A:1469:TRP:HA	1.78	0.84
2:B:811:LEU:HG	2:B:899:GLN:HB3	1.59	0.84
3:C:134:LEU:HD23	3:C:169:PHE:HA	1.59	0.84
9:I:42:PHE:CD1	9:I:43:SER:O	2.30	0.84
15:O:7:UNK:O	17:Q:424:PHE:HB2	1.77	0.84
16:P:263:PRO:HB2	16:P:266:PHE:CD2	1.97	0.84
16:P:413:LEU:CD1	17:Q:273:TRP:HH2	1.61	0.84
7:G:27:PRO:O	7:G:35:SER:HA	1.76	0.84
15:O:323:ASN:C	15:O:348:HIS:HB3	2.02	0.84
15:O:569:VAL:HG22	16:P:478:ARG:HA	1.57	0.84
15:O:573:GLU:HA	16:P:499:LYS:HZ2	1.04	0.84
16:P:147:GLN:NE2	16:P:147:GLN:H	1.75	0.84
1:A:250:LYS:HD3	1:A:428:VAL:HG21	1.58	0.84
7:G:97:LYS:HZ3	7:G:99:ASP:N	1.72	0.84
8:H:115:TYR:CE1	8:H:124:ARG:HG3	2.11	0.84
10:J:23:ASN:ND2	10:J:27:GLU:OE1	2.10	0.84
15:O:596:ILE:CG2	16:P:317:MET:CE	2.54	0.84
16:P:143:THR:CB	16:P:236:MET:HE1	2.05	0.84
17:Q:201:SER:O	17:Q:204:GLU:CD	2.20	0.84
1:A:469:LYS:HD2	2:B:1070:ARG:CZ	2.06	0.84
5:E:10:SER:HB2	5:E:39:LEU:HD21	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:385:PHE:CZ	17:Q:212:HIS:CD2	2.65	0.84
1:A:1144:LEU:O	1:A:1148:LEU:HG	1.78	0.84
2:B:251:HIS:CE1	2:B:261:ARG:HD3	2.12	0.84
3:C:39:ASP:OD2	3:C:58:ASN:HB3	1.78	0.84
3:C:242:GLU:OE2	3:C:245:ARG:NH2	2.11	0.84
7:G:46:TYR:HB2	7:G:117:TRP:CZ3	2.11	0.84
15:O:350:THR:O	15:O:351:ILE:C	2.20	0.84
15:O:428:GLU:OE2	15:O:435:ARG:CB	2.25	0.84
15:O:569:VAL:HG21	16:P:478:ARG:N	1.92	0.84
15:O:696:PHE:HB3	15:O:711:LEU:CD1	1.99	0.84
16:P:344:THR:CB	16:P:436:LEU:O	2.25	0.84
16:P:491:PHE:O	16:P:493:ILE:N	2.10	0.84
1:A:1506:ARG:NH2	1:A:1522:GLU:OE2	2.11	0.84
2:B:819:ASP:HB2	2:B:820:PRO:HD3	0.86	0.84
2:B:823:GLN:HA	2:B:862:PHE:O	1.78	0.84
14:N:25:ILE:HB	14:N:26:PRO:HD3	1.57	0.84
16:P:118:TRP:CE3	16:P:189:LYS:HB3	2.12	0.84
16:P:239:PHE:O	16:P:243:PHE:CD2	2.29	0.84
17:Q:280:SER:OG	17:Q:300:GLY:C	2.21	0.84
5:E:100:ILE:HG23	5:E:105:PHE:CD2	2.09	0.84
15:O:260:LEU:HD22	15:O:273:ARG:O	1.76	0.84
16:P:320:PHE:HE1	16:P:322:ARG:NH2	1.76	0.84
17:Q:285:VAL:CG2	17:Q:302:ARG:NH2	2.35	0.84
9:I:8:ILE:CG2	9:I:37:TYR:CZ	2.61	0.84
15:O:205:TYR:OH	15:O:229:ARG:NH1	2.10	0.84
15:O:721:CYS:C	15:O:724:LEU:HD21	2.02	0.84
17:Q:350:SER:O	17:Q:353:VAL:CG2	2.25	0.84
2:B:438:ILE:HD13	2:B:445:TYR:HB2	1.60	0.84
2:B:858:ILE:HD11	2:B:874:TYR:HB2	1.58	0.84
5:E:11:ARG:HG2	5:E:14:ARG:HH21	1.43	0.84
15:O:328:ARG:O	15:O:340:LYS:HA	1.76	0.84
15:O:329:ILE:HD12	15:O:330:PRO:O	1.76	0.84
15:O:721:CYS:CA	15:O:724:LEU:HD21	2.08	0.84
16:P:211:TYR:O	16:P:215:LEU:HD21	1.77	0.84
17:Q:283:ARG:HA	17:Q:302:ARG:HB2	0.84	0.84
1:A:110:LEU:HD23	1:A:115:VAL:HG23	1.60	0.83
1:A:1501:ILE:HB	1:A:1504:ILE:HB	1.60	0.83
2:B:146:ASN:HB3	2:B:149:GLU:CB	2.07	0.83
15:O:214:LEU:HG	15:O:242:ILE:HD13	1.60	0.83
15:O:221:ARG:HH22	15:O:513:THR:HA	1.41	0.83
15:O:433:VAL:CA	17:Q:144:VAL:CG1	2.53	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:95:LEU:HD22	16:P:100:ALA:CA	2.07	0.83
17:Q:133:LYS:HE3	17:Q:133:LYS:CA	1.97	0.83
17:Q:354:LEU:HA	17:Q:359:MET:H	1.40	0.83
1:A:665:PRO:CD	1:A:790:LYS:HA	2.07	0.83
13:M:23:VAL:O	13:M:95:VAL:HA	1.78	0.83
15:O:363:ILE:HG22	15:O:374:VAL:HG13	1.58	0.83
15:O:472:ARG:NH1	17:Q:203:SER:OG	2.11	0.83
17:Q:277:ILE:HG13	17:Q:278:TYR:CZ	2.12	0.83
1:A:1272:VAL:O	9:I:49:THR:OG1	1.96	0.83
15:O:669:PHE:C	15:O:671:SER:N	2.28	0.83
16:P:215:LEU:HB2	16:P:216:GLU:OE1	1.77	0.83
17:Q:8:LEU:O	17:Q:9:THR:C	2.20	0.83
17:Q:133:LYS:CG	17:Q:286:GLN:HA	2.09	0.83
1:A:1241:PRO:HA	1:A:1518:VAL:HG12	1.60	0.83
2:B:251:HIS:ND1	2:B:261:ARG:HD3	1.93	0.83
2:B:811:LEU:CG	2:B:899:GLN:CB	2.40	0.83
15:O:373:LEU:CB	15:O:375:PHE:CE1	2.60	0.83
15:O:384:ASP:OD2	15:O:387:ASN:HB2	1.79	0.83
16:P:195:ALA:HA	16:P:216:GLU:CB	2.07	0.83
16:P:223:ASN:OD1	16:P:223:ASN:N	2.10	0.83
1:A:494:GLU:HG2	1:A:604:LYS:HB2	1.61	0.83
1:A:665:PRO:C	1:A:666:VAL:HG23	2.01	0.83
9:I:23:VAL:CG1	9:I:28:VAL:HG22	2.08	0.83
13:M:43:LYS:HG3	14:N:28:GLY:O	1.79	0.83
15:O:312:LEU:O	15:O:312:LEU:HD13	1.79	0.83
15:O:357:LEU:HG	15:O:377:ARG:HH21	1.01	0.83
15:O:436:ILE:HB	17:Q:141:TRP:CZ3	2.12	0.83
16:P:341:ARG:HB3	16:P:445:ARG:NH2	1.93	0.83
15:O:324:TRP:CD1	15:O:348:HIS:CA	2.62	0.83
15:O:431:ASP:OD2	15:O:433:VAL:CB	2.27	0.83
1:A:658:LEU:HD21	1:A:665:PRO:HG3	1.59	0.83
1:A:1661:PRO:CA	7:G:102:GLU:HG2	2.08	0.83
2:B:74:PHE:HE2	2:B:343:ASP:HB2	1.43	0.83
2:B:940:GLU:OE2	2:B:1014:TYR:OH	1.95	0.83
17:Q:248:LYS:CD	17:Q:298:GLN:HE22	1.88	0.83
1:A:62:CYS:HB2	1:A:72:CYS:SG	2.18	0.83
1:A:119:ALA:HB2	1:A:334:VAL:HG23	1.60	0.83
1:A:253:GLU:N	1:A:313:THR:O	2.10	0.83
1:A:539:GLU:HB2	1:A:573:LEU:HB3	1.61	0.83
2:B:532:HIS:HB3	2:B:544:HIS:HB2	1.60	0.83
16:P:209:ASN:ND2	16:P:211:TYR:CE2	2.46	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:321:GLN:O	9:I:32:GLN:NE2	2.11	0.83
3:C:146:ALA:HB1	3:C:151:THR:CB	2.08	0.83
4:D:91:ARG:HG2	4:D:94:ARG:HH21	1.44	0.83
14:N:25:ILE:HG22	14:N:26:PRO:HD3	1.61	0.83
14:N:96:GLU:CG	14:N:107:MET:HB2	2.07	0.83
15:O:456:VAL:HB	15:O:463:LEU:CD1	2.09	0.83
16:P:258:MET:HA	16:P:262:LEU:HB2	1.58	0.83
16:P:263:PRO:C	16:P:265:GLU:H	1.87	0.83
17:Q:356:PRO:CD	17:Q:357:PRO:HD2	2.03	0.83
1:A:81:LEU:HD12	1:A:357:MET:C	1.95	0.83
1:A:81:LEU:HD11	1:A:359:VAL:H	1.42	0.83
2:B:613:VAL:HG12	2:B:660:LYS:HE3	1.59	0.83
7:G:235:ASN:O	7:G:246:ASP:N	2.11	0.83
15:O:222:GLN:HE22	15:O:227:LEU:N	1.77	0.83
15:O:611:ILE:CG2	15:O:731:LEU:HD23	2.09	0.83
1:A:665:PRO:HD2	1:A:790:LYS:CA	2.09	0.82
1:A:1326:GLU:OE2	1:A:1455:ARG:HG2	1.78	0.82
15:O:347:LEU:CD2	17:Q:152:ILE:CB	2.47	0.82
16:P:158:MET:O	16:P:192:TYR:CE1	2.32	0.82
17:Q:158:THR:HG23	17:Q:161:ASN:N	1.93	0.82
17:Q:388:LYS:CD	17:Q:393:ILE:HB	2.09	0.82
15:O:347:LEU:CD1	17:Q:151:PRO:O	2.26	0.82
15:O:475:ARG:CD	17:Q:1:MET:SD	2.66	0.82
5:E:47:CYS:HB3	5:E:51:GLY:HA2	1.61	0.82
5:E:83:CYS:SG	5:E:88:VAL:HG22	2.18	0.82
5:E:101:GLN:OE1	5:E:129:PRO:HG2	1.75	0.82
15:O:433:VAL:CB	17:Q:144:VAL:CB	2.50	0.82
15:O:573:GLU:HA	16:P:499:LYS:HZ1	1.01	0.82
15:O:589:ILE:CB	16:P:320:PHE:HE2	1.92	0.82
16:P:186:CYS:SG	16:P:349:GLY:HA2	2.19	0.82
17:Q:354:LEU:HB2	17:Q:358:PHE:C	2.05	0.82
3:C:224:THR:HB	3:C:303:GLU:OE2	1.78	0.82
16:P:176:VAL:CG1	16:P:179:CYS:HB3	2.09	0.82
17:Q:133:LYS:HG3	17:Q:286:GLN:HA	1.61	0.82
17:Q:204:GLU:CD	17:Q:205:VAL:N	2.37	0.82
1:A:111:LYS:CD	1:A:113:VAL:HG23	1.69	0.82
1:A:1040:ASP:OD1	1:A:1041:ALA:N	2.11	0.82
9:I:28:VAL:CA	9:I:37:TYR:CB	2.57	0.82
15:O:314:GLN:HE22	15:O:331:LYS:HG2	1.44	0.82
15:O:346:ASN:ND2	17:Q:155:GLN:HB2	1.95	0.82
15:O:353:ASP:CG	15:O:354:PRO:HD3	2.03	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:172:LEU:HD23	16:P:172:LEU:O	1.78	0.82
16:P:193:PHE:HB3	17:Q:208:TYR:CE2	2.14	0.82
16:P:257:VAL:CB	16:P:262:LEU:CD1	2.58	0.82
16:P:351:ASN:O	16:P:355:VAL:HG22	1.79	0.82
1:A:199:ASP:HB3	1:A:201:ARG:HG3	1.60	0.82
3:C:45:SER:OG	3:C:271:ARG:NH1	2.13	0.82
16:P:362:THR:CA	16:P:365:ASP:CG	2.52	0.82
16:P:490:ASP:HB3	16:P:491:PHE:CE1	2.13	0.82
1:A:124:LEU:HD13	1:A:133:SER:HA	1.62	0.82
2:B:368:GLN:OE1	13:M:65:TYR:OH	1.97	0.82
2:B:1121:GLY:O	7:G:240:GLY:HA2	1.78	0.82
3:C:117:ASP:O	3:C:125:LYS:NZ	2.12	0.82
9:I:27:ASN:CB	9:I:37:TYR:C	2.53	0.82
14:N:45:LYS:HB2	14:N:48:ALA:HB3	1.62	0.82
15:O:302:VAL:HA	15:O:320:ILE:CG1	2.08	0.82
16:P:378:LEU:HD13	17:Q:234:LYS:HB2	1.61	0.82
17:Q:352:TRP:HE3	17:Q:357:PRO:CG	1.91	0.82
1:A:403:LEU:CD2	1:A:407:GLN:NE2	2.43	0.82
1:A:518:GLU:OE2	1:A:582:LYS:NZ	2.10	0.82
1:A:600:MET:HE1	2:B:1079:LEU:HD11	1.60	0.82
1:A:690:GLU:HA	11:K:81:MET:HE2	1.60	0.82
1:A:1115:LYS:CG	5:E:152:LYS:HZ1	1.92	0.82
2:B:738:ASP:O	2:B:806:THR:OG1	1.98	0.82
5:E:46:TYR:O	5:E:53:PRO:HA	1.80	0.82
7:G:100:THR:HG23	7:G:102:GLU:O	1.79	0.82
14:N:55:LEU:O	14:N:137:PHE:N	2.11	0.82
15:O:428:GLU:CB	15:O:433:VAL:CG2	2.57	0.82
15:O:669:PHE:CE1	15:O:738:LYS:CE	2.62	0.82
15:O:694:ILE:CG1	15:O:695:GLY:H	1.92	0.82
17:Q:266:SER:OG	17:Q:268:LEU:HB2	1.79	0.82
1:A:757:ASN:OD1	1:A:766:GLU:N	2.12	0.82
13:M:27:PHE:O	14:N:106:ASN:ND2	2.13	0.82
13:M:80:LEU:HD12	14:N:52:GLN:O	1.79	0.82
15:O:313:GLN:HB3	15:O:315:PHE:CD1	2.13	0.82
16:P:227:TYR:CE1	16:P:304:LEU:CD1	2.63	0.82
13:M:11:GLU:H	13:M:86:LYS:HE2	1.43	0.82
15:O:616:SER:CA	15:O:620:ASP:H	1.92	0.82
15:O:620:ASP:OD1	15:O:674:GLU:CG	2.24	0.82
1:A:658:LEU:HD21	1:A:665:PRO:CG	2.10	0.81
1:A:665:PRO:HD2	1:A:790:LYS:H	1.43	0.81
2:B:321:GLN:OE1	13:M:104:SER:OG	1.97	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:273:ARG:CG	15:O:274:ILE:H	1.86	0.81
16:P:170:THR:OG1	16:P:239:PHE:CZ	2.22	0.81
16:P:343:THR:CB	16:P:347:SER:N	2.41	0.81
17:Q:143:THR:C	17:Q:144:VAL:HG23	2.05	0.81
17:Q:264:SER:O	17:Q:265:SER:CB	2.27	0.81
1:A:1239:THR:N	1:A:1542:THR:O	2.13	0.81
2:B:818:GLY:O	2:B:821:ILE:HG12	1.80	0.81
15:O:269:PHE:HE1	15:O:339:ARG:HD2	1.44	0.81
15:O:659:LEU:HD22	15:O:659:LEU:N	1.95	0.81
16:P:119:LEU:CD1	16:P:165:LEU:HD11	2.07	0.81
16:P:343:THR:OG1	16:P:348:ILE:N	2.11	0.81
16:P:487:LEU:HD11	16:P:498:LEU:HD11	1.60	0.81
17:Q:246:GLN:O	17:Q:247:ILE:CD1	2.18	0.81
17:Q:283:ARG:HA	17:Q:302:ARG:CA	2.08	0.81
1:A:38:LEU:HD12	1:A:43:HIS:O	1.81	0.81
1:A:367:PHE:HB2	2:B:1180:PHE:CE1	2.16	0.81
2:B:773:VAL:HG21	2:B:1033:TYR:HE2	1.41	0.81
14:N:96:GLU:OE1	14:N:107:MET:CB	2.19	0.81
15:O:214:LEU:N	15:O:236:ILE:HB	1.96	0.81
15:O:299:ASP:HB3	17:Q:159:TYR:CB	1.83	0.81
15:O:313:GLN:N	15:O:315:PHE:CD1	2.47	0.81
15:O:433:VAL:CB	17:Q:144:VAL:HG12	1.99	0.81
16:P:227:TYR:CZ	16:P:301:HIS:CB	2.59	0.81
16:P:378:LEU:HD12	17:Q:235:ILE:HD13	1.59	0.81
16:P:386:LEU:HG	16:P:387:PRO:CD	2.02	0.81
16:P:414:TYR:HB3	17:Q:241:ARG:HH22	1.40	0.81
16:P:431:ASP:C	16:P:434:HIS:CA	2.53	0.81
17:Q:139:GLU:O	17:Q:141:TRP:N	2.12	0.81
2:B:311:ARG:HH22	9:I:19:ASN:H	1.25	0.81
7:G:37:CYS:SG	7:G:127:PRO:HA	2.21	0.81
14:N:111:VAL:HG23	14:N:120:LYS:HB2	1.60	0.81
15:O:446:ASP:OD2	15:O:448:THR:HG22	1.81	0.81
15:O:657:SER:HB2	15:O:746:ARG:CD	2.09	0.81
1:A:109:ARG:HB3	1:A:230:ARG:HB3	1.62	0.81
1:A:1256:LYS:O	1:A:1499:ARG:NH2	2.14	0.81
5:E:10:SER:HA	5:E:39:LEU:CD1	2.10	0.81
15:O:356:GLU:CB	17:Q:24:ILE:HD12	2.10	0.81
16:P:184:TRP:CD1	16:P:190:MET:HG2	2.15	0.81
16:P:257:VAL:HB	16:P:262:LEU:CD1	2.11	0.81
17:Q:354:LEU:CG	17:Q:358:PHE:C	2.53	0.81
1:A:700:ILE:HD13	1:A:738:ASN:HD22	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1298:ASP:HB3	1:A:1301:GLU:CG	2.10	0.81
4:D:22:ILE:CG2	7:G:43:ILE:HD12	2.10	0.81
5:E:101:GLN:OE1	5:E:129:PRO:CB	2.28	0.81
15:O:353:ASP:CG	17:Q:28:SER:O	2.08	0.81
16:P:108:PHE:HE2	16:P:137:TRP:CH2	1.94	0.81
16:P:339:THR:O	16:P:340:GLN:O	1.97	0.81
16:P:362:THR:CA	16:P:365:ASP:OD2	2.28	0.81
16:P:381:MET:HE1	16:P:385:PHE:CD2	2.16	0.81
17:Q:124:GLU:CD	17:Q:289:ASN:ND2	2.37	0.81
17:Q:295:PRO:C	17:Q:297:PHE:H	1.87	0.81
1:A:56:ALA:HB2	1:A:67:LEU:O	1.80	0.81
1:A:487:ASP:HB2	1:A:615:ARG:CD	2.09	0.81
15:O:214:LEU:H	15:O:236:ILE:HB	1.42	0.81
16:P:263:PRO:CG	16:P:266:PHE:CG	2.64	0.81
17:Q:208:TYR:HA	17:Q:211:ARG:HD2	1.61	0.81
17:Q:229:TRP:O	17:Q:233:TYR:HD2	1.59	0.81
17:Q:362:ALA:O	17:Q:365:TRP:N	2.12	0.81
1:A:462:LYS:C	1:A:462:LYS:HE2	2.05	0.81
2:B:1002:LYS:HG2	14:N:166:LEU:HD12	1.60	0.81
2:B:1119:ARG:N	2:B:1122:SER:O	2.10	0.81
3:C:247:PHE:HB2	3:C:285:PHE:CE1	2.16	0.81
7:G:52:MET:HE2	7:G:53:TYR:CZ	2.15	0.81
7:G:134:GLU:HA	7:G:229:LEU:O	1.80	0.81
15:O:627:GLY:HA2	15:O:630:LEU:HD21	1.60	0.81
16:P:104:PHE:HD1	16:P:211:TYR:CD1	1.95	0.81
16:P:341:ARG:O	16:P:342:THR:O	1.98	0.81
16:P:354:LYS:CG	16:P:362:THR:CG2	2.28	0.81
17:Q:246:GLN:C	17:Q:247:ILE:CD1	2.53	0.81
19:S:22:DG:N2	20:T:33:DC:O2	2.14	0.81
2:B:322:ASN:CB	13:M:105:SER:HA	2.11	0.81
15:O:5:UNK:CB	15:O:24:UNK:CB	2.58	0.81
15:O:6:UNK:C	17:Q:425:ALA:HA	2.06	0.81
15:O:214:LEU:CA	15:O:236:ILE:HG21	2.11	0.81
15:O:375:PHE:CE2	15:O:380:MET:HE2	2.16	0.81
15:O:398:ALA:HA	17:Q:128:TRP:CZ3	2.16	0.81
15:O:734:LYS:HD2	15:O:737:VAL:CG1	2.11	0.81
15:O:736:ILE:CB	16:P:268:PHE:CE1	2.64	0.81
1:A:36:THR:HB	1:A:45:VAL:HG21	1.63	0.81
1:A:111:LYS:NZ	1:A:115:VAL:H	1.78	0.81
1:A:530:TRP:CB	1:A:531:PRO:CD	2.29	0.81
1:A:1154:LEU:C	1:A:1157:SER:OG	2.24	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:152:ASP:OD2	3:C:154:LYS:HB2	1.81	0.81
3:C:251:PHE:CE1	3:C:279:VAL:HB	2.16	0.81
15:O:356:GLU:HG2	15:O:377:ARG:HH21	1.46	0.81
17:Q:363:GLU:HA	17:Q:366:PHE:HB3	1.62	0.81
1:A:665:PRO:CG	1:A:790:LYS:HA	2.10	0.80
1:A:701:ARG:NH2	11:K:94:PRO:HA	1.95	0.80
1:A:720:PHE:CD2	8:H:63:LEU:HD11	2.16	0.80
1:A:461:GLU:OE2	1:A:1618:THR:HB	1.80	0.80
2:B:1115:GLN:HG3	2:B:1124:SER:HB2	1.63	0.80
3:C:148:LYS:NZ	3:C:151:THR:HG23	1.96	0.80
5:E:159:ASP:OD1	5:E:162:ARG:NH2	2.14	0.80
8:H:105:GLU:OE1	8:H:115:TYR:OH	1.99	0.80
13:M:12:ILE:HD11	14:N:70:LEU:HB2	1.63	0.80
15:O:569:VAL:HG21	16:P:478:ARG:CA	2.11	0.80
1:A:233:CYS:HB3	1:A:238:MET:N	1.96	0.80
1:A:1048:PHE:CZ	5:E:211:TYR:HB2	2.16	0.80
2:B:581:PRO:HG3	2:B:637:TYR:HE1	1.44	0.80
2:B:1107:CYS:HA	2:B:1130:ARG:HH21	1.44	0.80
9:I:23:VAL:HG11	9:I:38:PRO:CG	2.11	0.80
11:K:58:GLY:C	11:K:59:THR:HG23	2.07	0.80
15:O:478:MET:HE2	15:O:497:VAL:HG22	1.63	0.80
16:P:171:HIS:CG	16:P:243:PHE:CD1	2.62	0.80
17:Q:21:TYR:CE2	17:Q:124:GLU:CD	2.59	0.80
1:A:665:PRO:HG2	1:A:790:LYS:HA	1.64	0.80
1:A:721:LYS:HB2	8:H:96:VAL:H	1.45	0.80
1:A:1299:ASN:O	1:A:1303:SER:OG	1.97	0.80
1:A:1501:ILE:HG21	1:A:1504:ILE:HD12	1.63	0.80
15:O:474:LYS:HA	15:O:505:PRO:HD3	1.62	0.80
1:A:68:ASP:O	1:A:72:CYS:N	2.13	0.80
1:A:107:HIS:CE1	1:A:330:LYS:HD3	2.16	0.80
1:A:416:ARG:CD	1:A:419:ILE:HG12	2.08	0.80
2:B:502:MET:SD	2:B:542:LEU:HD11	2.21	0.80
2:B:705:PRO:HG3	2:B:920:ARG:CZ	2.11	0.80
8:H:112:ILE:HG21	8:H:131:ASN:HD22	1.46	0.80
9:I:27:ASN:ND2	9:I:39:LYS:CB	2.44	0.80
15:O:322:GLY:HA2	15:O:349:GLY:O	1.82	0.80
16:P:344:THR:O	16:P:345:SER:CB	2.30	0.80
1:A:581:ILE:HD11	1:A:605:VAL:HG21	1.62	0.80
1:A:1248:ASP:OD1	1:A:1509:HIS:NE2	2.13	0.80
2:B:145:VAL:HB	2:B:150:GLU:HB3	1.63	0.80
15:O:356:GLU:HA	17:Q:24:ILE:HD12	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:176:VAL:HG13	16:P:179:CYS:HB3	1.63	0.80
16:P:219:ILE:HG13	16:P:220:SER:H	1.47	0.80
1:A:1243:TRP:CZ2	1:A:1537:ASP:HA	2.17	0.80
2:B:1088:LEU:HD11	2:B:1092:LEU:HD12	1.63	0.80
9:I:8:ILE:HG23	9:I:37:TYR:CZ	2.17	0.80
15:O:669:PHE:CD1	15:O:738:LYS:CE	2.65	0.80
16:P:177:TYR:OH	16:P:226:LEU:CG	2.29	0.80
2:B:815:ARG:HH12	2:B:818:GLY:HA2	0.63	0.80
2:B:815:ARG:CZ	2:B:818:GLY:CA	2.54	0.80
7:G:236:VAL:HG22	7:G:245:VAL:HG22	1.64	0.80
15:O:260:LEU:CD1	15:O:272:PHE:H	1.95	0.80
15:O:310:TRP:HA	15:O:368:HIS:NE2	1.95	0.80
15:O:373:LEU:C	15:O:375:PHE:HE1	1.89	0.80
17:Q:142:ARG:HG3	17:Q:142:ARG:HH11	1.47	0.80
1:A:9:SER:CA	2:B:1194:ILE:CD1	2.41	0.80
1:A:114:GLU:HG3	1:A:118:TYR:HE2	1.47	0.80
2:B:341:SER:CB	2:B:342:PRO:HD3	2.11	0.80
2:B:574:SER:HB2	13:M:97:VAL:HG21	1.64	0.80
2:B:1127:CYS:N	2:B:1166:LYS:HE3	1.97	0.80
7:G:37:CYS:HB3	7:G:126:GLN:C	2.06	0.80
15:O:210:THR:C	15:O:212:SER:N	2.39	0.80
15:O:656:HIS:CD2	15:O:747:LEU:O	2.34	0.80
15:O:727:PRO:HG3	16:P:265:GLU:CD	2.06	0.80
16:P:208:PRO:HA	16:P:212:VAL:CB	2.10	0.80
16:P:494:SER:OG	16:P:497:GLN:N	2.13	0.80
17:Q:158:THR:HG23	17:Q:161:ASN:HB2	1.63	0.80
17:Q:380:SER:O	17:Q:384:VAL:CB	2.30	0.80
1:A:85:CYS:O	1:A:356:PHE:HA	1.82	0.80
15:O:491:SER:C	15:O:492:LEU:HD12	2.07	0.80
15:O:780:ILE:CA	16:P:199:LEU:HD21	2.12	0.80
17:Q:274:MET:O	17:Q:277:ILE:HG22	1.79	0.80
2:B:752:VAL:O	2:B:920:ARG:NH1	2.15	0.79
2:B:817:ARG:O	2:B:818:GLY:C	2.24	0.79
4:D:30:HIS:HB3	7:G:36:ASN:ND2	1.96	0.79
15:O:180:ASN:O	15:O:244:SER:HA	1.82	0.79
15:O:428:GLU:CB	15:O:433:VAL:HG22	2.12	0.79
15:O:627:GLY:HA2	15:O:630:LEU:CD2	2.12	0.79
16:P:259:GLN:NE2	16:P:259:GLN:O	2.13	0.79
7:G:167:THR:HG22	7:G:218:VAL:HB	1.63	0.79
15:O:196:TYR:CD1	15:O:197:ARG:N	2.50	0.79
15:O:247:ILE:HG12	15:O:261:VAL:CG2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:275:GLU:HB3	15:O:285:MET:HG3	1.63	0.79
15:O:326:ILE:HG12	15:O:344:ILE:HG21	1.64	0.79
15:O:667:ASP:N	15:O:667:ASP:OD1	2.13	0.79
16:P:246:GLU:CG	16:P:286:LEU:HB3	2.12	0.79
17:Q:204:GLU:CD	17:Q:205:VAL:H	1.90	0.79
17:Q:283:ARG:CA	17:Q:302:ARG:HB3	1.92	0.79
17:Q:283:ARG:C	17:Q:302:ARG:HE	1.90	0.79
5:E:161:LYS:NZ	5:E:172:GLU:OE2	2.13	0.79
15:O:202:ILE:HD12	15:O:202:ILE:N	1.96	0.79
15:O:324:TRP:CD1	15:O:348:HIS:CD2	2.62	0.79
15:O:394:VAL:HA	17:Q:141:TRP:CD1	2.17	0.79
15:O:698:LYS:HD3	16:P:125:PHE:HA	1.64	0.79
16:P:193:PHE:HB3	17:Q:208:TYR:HE2	1.47	0.79
1:A:344:ASN:HD21	1:A:348:LYS:H	1.30	0.79
1:A:477:ASN:ND2	2:B:1048:SER:O	2.15	0.79
1:A:1049:MET:HE1	1:A:1124:LEU:HB3	1.62	0.79
3:C:37:LYS:HG3	11:K:130:VAL:HG13	1.62	0.79
15:O:264:ILE:HG13	15:O:305:PHE:CE2	2.18	0.79
15:O:309:PRO:HD3	15:O:365:TRP:CG	2.17	0.79
15:O:647:GLU:O	15:O:649:ILE:CD1	2.30	0.79
16:P:105:LEU:CD2	16:P:109:GLN:NE2	2.45	0.79
17:Q:381:ARG:O	17:Q:384:VAL:HG22	1.79	0.79
1:A:109:ARG:HH22	1:A:240:SER:CB	1.84	0.79
1:A:951:ALA:C	1:A:952:LEU:HD12	2.07	0.79
2:B:138:LEU:HD23	2:B:155:VAL:HG12	1.64	0.79
11:K:58:GLY:O	11:K:59:THR:HG23	1.81	0.79
15:O:183:ASP:HB3	15:O:247:ILE:HD12	1.64	0.79
15:O:241:PRO:HG2	15:O:266:GLU:CD	2.08	0.79
15:O:724:LEU:HD11	16:P:446:TYR:HB2	1.62	0.79
16:P:148:PRO:O	16:P:150:GLU:N	2.14	0.79
17:Q:21:TYR:HD2	17:Q:124:GLU:HB2	1.48	0.79
1:A:754:LYS:HG3	1:A:784:SER:HB3	1.65	0.79
2:B:422:GLN:OE1	2:B:473:GLN:NE2	2.16	0.79
9:I:4:VAL:N	9:I:7:LEU:O	2.13	0.79
9:I:28:VAL:CG1	9:I:37:TYR:HB2	2.12	0.79
15:O:175:ASP:OD2	17:Q:190:SER:OG	2.00	0.79
15:O:269:PHE:CZ	15:O:292:LEU:HD21	2.18	0.79
15:O:346:ASN:HD22	17:Q:155:GLN:HB3	1.47	0.79
15:O:357:LEU:HD11	17:Q:20:LYS:HZ1	1.39	0.79
15:O:375:PHE:CD2	15:O:380:MET:CA	2.62	0.79
15:O:414:ILE:HB	15:O:425:GLY:C	2.08	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:771:ILE:HD11	16:P:102:LEU:HD22	1.63	0.79
16:P:488:LEU:O	16:P:493:ILE:HG23	1.83	0.79
1:A:111:LYS:CG	1:A:114:GLU:CB	2.61	0.79
2:B:21:ARG:HD3	2:B:763:ASP:OD2	1.83	0.79
2:B:906:ARG:HH12	3:C:94:ASP:H	1.31	0.79
15:O:201:GLU:CG	15:O:219:LEU:HB2	2.12	0.79
15:O:352:PHE:HB3	15:O:354:PRO:CG	2.12	0.79
15:O:422:ILE:CD1	15:O:442:LEU:HD23	2.11	0.79
15:O:603:ARG:NH2	16:P:268:PHE:HD1	1.71	0.79
16:P:487:LEU:HD12	16:P:488:LEU:N	1.97	0.79
1:A:1660:VAL:O	7:G:103:LYS:N	2.14	0.79
3:C:53:ASN:OD1	3:C:271:ARG:NH2	2.15	0.79
7:G:218:VAL:HG13	7:G:223:GLU:C	2.07	0.79
9:I:28:VAL:HG23	9:I:38:PRO:HD3	1.63	0.79
10:J:7:CYS:CA	10:J:49:MET:HE3	2.13	0.79
16:P:211:TYR:CE1	16:P:212:VAL:HG23	2.17	0.79
1:A:81:LEU:H	1:A:359:VAL:HA	1.48	0.79
1:A:416:ARG:HA	1:A:419:ILE:HG12	1.65	0.79
15:O:16:UNK:CA	15:O:20:UNK:CB	2.60	0.79
15:O:214:LEU:CA	15:O:236:ILE:HB	2.11	0.79
15:O:273:ARG:HB3	15:O:287:SER:N	1.97	0.79
15:O:347:LEU:HD22	17:Q:152:ILE:N	1.98	0.79
16:P:104:PHE:CD1	16:P:211:TYR:CB	2.66	0.79
1:A:1263:LEU:CB	1:A:1496:SER:HB2	2.13	0.79
2:B:311:ARG:HH12	9:I:18:GLU:HA	1.47	0.79
5:E:14:ARG:NH2	5:E:141:VAL:HG13	1.96	0.79
9:I:28:VAL:H	9:I:37:TYR:H	1.28	0.79
15:O:216:ILE:O	15:O:234:THR:OG1	2.00	0.79
15:O:578:PHE:HZ	16:P:312:LEU:HD12	1.46	0.79
16:P:150:GLU:O	16:P:152:LEU:CD2	2.31	0.79
1:A:410:LYS:O	1:A:413:LEU:HG	1.83	0.78
2:B:1014:TYR:HD1	2:B:1021:GLU:HA	1.46	0.78
7:G:98:GLU:OE1	7:G:98:GLU:N	2.16	0.78
15:O:313:GLN:HB3	15:O:315:PHE:CE2	2.18	0.78
15:O:472:ARG:HH22	17:Q:200:THR:N	1.78	0.78
15:O:740:ILE:HG22	16:P:250:GLN:CB	2.07	0.78
15:O:771:ILE:HG23	16:P:109:GLN:CD	2.05	0.78
16:P:104:PHE:CE2	16:P:155:GLN:CG	2.65	0.78
16:P:402:MET:SD	16:P:410:ARG:HD2	2.23	0.78
8:H:7:ASP:HA	8:H:58:THR:HA	1.65	0.78
9:I:41:GLN:CD	9:I:43:SER:N	2.41	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:467:PHE:CD2	1:A:1614:SER:HA	2.17	0.78
2:B:742:TYR:CE1	2:B:803:MET:HG3	2.18	0.78
2:B:825:PHE:O	12:L:42:ARG:NH2	2.17	0.78
15:O:218:VAL:O	15:O:229:ARG:HG2	1.84	0.78
15:O:260:LEU:HD11	15:O:272:PHE:CA	2.04	0.78
15:O:316:ALA:CB	15:O:340:LYS:HD3	2.11	0.78
15:O:346:ASN:ND2	17:Q:155:GLN:CB	2.46	0.78
15:O:720:GLN:O	15:O:724:LEU:CD2	2.31	0.78
16:P:183:LYS:CG	16:P:189:LYS:NZ	2.44	0.78
16:P:258:MET:HG2	16:P:262:LEU:CD2	2.11	0.78
16:P:365:ASP:OD1	16:P:365:ASP:N	2.17	0.78
1:A:403:LEU:HD21	1:A:407:GLN:HE22	1.43	0.78
1:A:1658:ALA:C	7:G:104:LEU:HD12	2.09	0.78
9:I:28:VAL:CG1	9:I:29:GLU:H	1.95	0.78
11:K:59:THR:HB	11:K:107:THR:OG1	1.83	0.78
15:O:309:PRO:HD3	15:O:365:TRP:CD2	2.17	0.78
15:O:350:THR:HG21	17:Q:153:ASN:CB	2.14	0.78
15:O:383:ILE:CA	15:O:390:GLN:HG2	2.13	0.78
15:O:599:LYS:CB	16:P:272:GLN:NE2	2.37	0.78
15:O:694:ILE:HD11	15:O:698:LYS:CD	2.08	0.78
16:P:158:MET:HE1	16:P:219:ILE:HG23	1.66	0.78
4:D:29:GLN:N	7:G:40:ARG:O	2.15	0.78
5:E:13:TRP:CE3	5:E:39:LEU:HB2	2.18	0.78
8:H:103:LYS:HE3	8:H:115:TYR:CE2	2.19	0.78
15:O:188:GLN:N	15:O:199:GLY:CA	2.37	0.78
15:O:225:LEU:HD13	15:O:225:LEU:H	1.47	0.78
15:O:414:ILE:N	15:O:425:GLY:O	2.16	0.78
15:O:428:GLU:HB3	15:O:433:VAL:CG2	2.14	0.78
15:O:463:LEU:HD12	15:O:463:LEU:O	1.82	0.78
16:P:315:ASN:O	16:P:319:SER:HB2	1.84	0.78
16:P:363:SER:HA	16:P:366:TYR:HD2	1.40	0.78
2:B:438:ILE:CD1	2:B:445:TYR:HB2	2.14	0.78
15:O:214:LEU:CA	15:O:236:ILE:CB	2.62	0.78
16:P:100:ALA:CB	16:P:211:TYR:HE2	1.93	0.78
1:A:1261:VAL:O	1:A:1498:ILE:N	2.16	0.78
2:B:67:ASP:HB3	2:B:414:LYS:HE3	1.65	0.78
2:B:187:SER:OG	10:J:59:LYS:NZ	2.15	0.78
7:G:169:VAL:HG22	7:G:218:VAL:HG23	1.64	0.78
7:G:217:TRP:HB2	7:G:225:ILE:HD11	1.65	0.78
11:K:46:LYS:O	11:K:65:ILE:HA	1.84	0.78
14:N:46:LYS:NZ	14:N:125:ALA:HB2	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:237:GLU:OE2	15:O:239:HIS:HE1	1.66	0.78
15:O:725:VAL:HG21	16:P:449:GLN:CA	2.14	0.78
16:P:402:MET:CB	16:P:407:LYS:H	1.89	0.78
17:Q:269:ASP:OD1	17:Q:269:ASP:N	2.11	0.78
7:G:229:LEU:HD21	7:G:249:LEU:HD21	1.66	0.78
15:O:350:THR:CG2	17:Q:153:ASN:HB2	2.14	0.78
15:O:650:LEU:HG	15:O:756:ILE:HG21	1.65	0.78
16:P:386:LEU:H	16:P:387:PRO:CD	1.95	0.78
16:P:431:ASP:O	16:P:431:ASP:OD1	2.01	0.78
17:Q:208:TYR:CA	17:Q:211:ARG:HG2	2.13	0.78
1:A:436:ALA:CB	1:A:443:ALA:HB2	2.13	0.78
1:A:790:LYS:HB2	1:A:795:HIS:CE1	2.19	0.78
6:F:110:ASP:O	6:F:123:LYS:NZ	2.17	0.78
15:O:428:GLU:CG	15:O:433:VAL:CG2	2.61	0.78
15:O:499:GLU:HG3	15:O:500:ILE:HD12	1.64	0.78
15:O:592:LEU:CD1	16:P:512:ARG:CZ	2.39	0.78
16:P:247:ILE:CG2	16:P:302:ALA:CB	2.54	0.78
16:P:247:ILE:HD11	16:P:286:LEU:CD1	2.14	0.78
16:P:378:LEU:CD1	17:Q:235:ILE:N	2.46	0.78
2:B:341:SER:O	2:B:343:ASP:N	2.16	0.78
2:B:1151:ILE:CG2	2:B:1159:TRP:HB3	2.14	0.78
7:G:110:ASP:CG	7:G:111:THR:HG23	2.09	0.78
11:K:41:GLU:OE1	11:K:44:ARG:NH1	2.17	0.78
15:O:350:THR:HG21	17:Q:153:ASN:HB2	1.66	0.78
16:P:104:PHE:CA	16:P:211:TYR:CE1	2.66	0.78
17:Q:266:SER:O	17:Q:269:ASP:OD1	2.00	0.78
1:A:36:THR:O	1:A:45:VAL:HG11	1.84	0.77
1:A:195:LYS:HG3	1:A:201:ARG:NH2	1.99	0.77
1:A:348:LYS:NZ	1:A:1629:ASN:OD1	2.17	0.77
2:B:818:GLY:O	2:B:820:PRO:HD2	1.84	0.77
14:N:95:ILE:HG13	14:N:96:GLU:H	1.49	0.77
15:O:54:UNK:HA	15:O:554:ASN:OD1	1.82	0.77
15:O:655:SER:HA	16:P:244:ASN:HB2	1.64	0.77
15:O:714:PHE:CE2	15:O:741:ILE:HD11	2.19	0.77
15:O:725:VAL:HG21	16:P:449:GLN:O	1.69	0.77
16:P:100:ALA:HB1	16:P:211:TYR:OH	1.84	0.77
17:Q:154:LYS:C	17:Q:156:LYS:H	1.91	0.77
17:Q:274:MET:O	17:Q:277:ILE:HG23	1.82	0.77
1:A:1239:THR:HB	1:A:1542:THR:OG1	1.84	0.77
15:O:366:PHE:CD2	15:O:432:PRO:HA	2.06	0.77
15:O:574:TRP:CH2	16:P:484:ALA:HB1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:702:LEU:HD21	16:P:123:MET:SD	2.24	0.77
16:P:143:THR:CG2	16:P:236:MET:HE2	1.85	0.77
16:P:469:PRO:HB2	16:P:470:PRO:HD2	1.61	0.77
17:Q:380:SER:O	17:Q:384:VAL:CG2	2.31	0.77
1:A:461:GLU:HG2	1:A:1618:THR:CB	2.11	0.77
1:A:467:PHE:HZ	1:A:1614:SER:HB3	0.98	0.77
1:A:912:VAL:HB	1:A:913:PRO:HD2	0.80	0.77
2:B:261:ARG:HG3	2:B:270:LEU:CD1	2.15	0.77
2:B:742:TYR:HE1	2:B:803:MET:HG3	1.49	0.77
2:B:854:GLU:HA	2:B:874:TYR:CD2	2.18	0.77
15:O:211:GLY:O	15:O:242:ILE:HD12	1.84	0.77
16:P:104:PHE:HD1	16:P:212:VAL:N	1.82	0.77
16:P:258:MET:CG	16:P:262:LEU:HD22	2.13	0.77
1:A:403:LEU:CD2	1:A:407:GLN:HE22	1.96	0.77
1:A:658:LEU:HD21	1:A:665:PRO:CB	2.13	0.77
2:B:114:SER:C	2:B:116:ALA:H	1.93	0.77
2:B:976:GLY:O	10:J:32:GLU:HG3	1.84	0.77
15:O:356:GLU:CA	17:Q:24:ILE:HD12	2.15	0.77
15:O:603:ARG:HH22	16:P:268:PHE:HD1	1.29	0.77
15:O:656:HIS:CB	15:O:747:LEU:CA	2.63	0.77
16:P:414:TYR:CE1	17:Q:241:ARG:HD3	2.19	0.77
19:S:12:DA:N1	20:T:43:DT:N3	2.32	0.77
1:A:460:LEU:HD22	2:B:1178:ILE:HD11	1.66	0.77
1:A:719:ILE:CG2	1:A:722:PRO:HD2	2.14	0.77
14:N:98:SER:CB	14:N:104:LEU:HD23	2.14	0.77
15:O:299:ASP:HB3	17:Q:159:TYR:CA	2.15	0.77
15:O:721:CYS:C	15:O:724:LEU:HD23	2.10	0.77
16:P:100:ALA:O	16:P:211:TYR:CZ	2.37	0.77
17:Q:380:SER:HB2	17:Q:438:PHE:CZ	2.19	0.77
17:Q:398:ASP:OD2	17:Q:401:ILE:CD1	2.32	0.77
1:A:618:TYR:CE1	2:B:783:MET:HB2	2.19	0.77
1:A:1559:ARG:HH22	5:E:200:ARG:NH1	1.82	0.77
2:B:987:ASN:OD1	2:B:988:GLU:N	2.17	0.77
15:O:194:ARG:C	15:O:197:ARG:NH2	2.43	0.77
15:O:714:PHE:HE2	15:O:741:ILE:CD1	1.97	0.77
16:P:227:TYR:HE2	16:P:301:HIS:CB	1.64	0.77
16:P:417:PHE:CZ	17:Q:258:LEU:HD11	2.17	0.77
17:Q:230:SER:C	17:Q:233:TYR:CE2	2.63	0.77
1:A:786:TYR:HE2	1:A:817:PHE:CE2	2.03	0.77
1:A:1527:GLN:HG3	1:A:1530:TRP:CZ3	2.20	0.77
2:B:74:PHE:CE2	2:B:342:PRO:O	2.37	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:412:ILE:O	2:B:416:LYS:HG2	1.84	0.77
5:E:83:CYS:O	5:E:113:GLN:HG3	1.83	0.77
6:F:74:ILE:HD12	6:F:143:PHE:C	2.09	0.77
8:H:102:TYR:CZ	8:H:115:TYR:HB3	2.18	0.77
8:H:115:TYR:HE1	8:H:124:ARG:HG3	1.49	0.77
15:O:313:GLN:HB2	15:O:315:PHE:CE1	2.20	0.77
15:O:352:PHE:HB3	15:O:354:PRO:HD2	1.65	0.77
15:O:611:ILE:HG21	15:O:731:LEU:HD23	1.65	0.77
16:P:158:MET:HB2	16:P:192:TYR:CZ	2.19	0.77
16:P:227:TYR:OH	16:P:304:LEU:HD12	1.83	0.77
16:P:378:LEU:HD12	17:Q:235:ILE:CD1	2.15	0.77
1:A:62:CYS:O	1:A:66:GLY:N	2.15	0.77
1:A:173:ILE:HG21	1:A:178:LEU:HD21	1.67	0.77
2:B:726:MET:HE1	2:B:1035:ARG:HD3	1.66	0.77
3:C:242:GLU:O	3:C:246:ARG:CB	2.32	0.77
9:I:28:VAL:N	9:I:37:TYR:CA	2.48	0.77
15:O:323:ASN:CA	15:O:348:HIS:HB3	2.15	0.77
15:O:348:HIS:CG	15:O:349:GLY:N	2.46	0.77
17:Q:152:ILE:C	17:Q:154:LYS:H	1.90	0.77
1:A:857:ALA:HB2	1:A:899:LYS:HD3	1.67	0.77
1:A:1115:LYS:HA	5:E:152:LYS:NZ	1.99	0.77
1:A:1326:GLU:OE2	1:A:1455:ARG:N	2.16	0.77
15:O:356:GLU:CB	17:Q:24:ILE:CD1	2.62	0.77
15:O:390:GLN:CD	17:Q:151:PRO:HG2	2.07	0.77
15:O:596:ILE:CG2	16:P:317:MET:HE1	2.14	0.77
16:P:125:PHE:CD2	16:P:129:PHE:CG	2.70	0.77
16:P:125:PHE:HD2	16:P:129:PHE:CG	2.03	0.77
16:P:200:PRO:CA	16:P:203:TRP:HD1	1.97	0.77
16:P:355:VAL:HA	16:P:366:TYR:HE1	1.46	0.77
16:P:494:SER:CB	16:P:497:GLN:CB	2.46	0.77
1:A:645:ALA:O	1:A:649:ASN:ND2	2.18	0.77
2:B:108:MET:SD	2:B:120:LYS:HA	2.24	0.77
13:M:59:ARG:HB2	13:M:60:LEU:HD12	1.67	0.77
15:O:390:GLN:HB2	17:Q:151:PRO:HG2	1.66	0.77
15:O:582:ASP:O	15:O:586:LYS:CB	2.32	0.77
16:P:160:SER:HB2	16:P:229:LYS:HE2	1.67	0.77
16:P:169:SER:O	16:P:173:SER:N	2.16	0.77
16:P:332:LEU:HD12	16:P:333:SER:N	1.98	0.77
16:P:356:VAL:HA	17:Q:211:ARG:HE	1.50	0.77
1:A:248:PHE:HE2	1:A:442:LYS:HE3	1.50	0.76
2:B:658:LEU:HB3	2:B:660:LYS:HE2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:42:VAL:O	11:K:138:LYS:NZ	2.18	0.76
15:O:583:GLU:HG2	15:O:584:ARG:H	1.00	0.76
15:O:669:PHE:O	15:O:738:LYS:NZ	2.18	0.76
16:P:343:THR:C	16:P:345:SER:H	1.93	0.76
1:A:111:LYS:CG	1:A:114:GLU:N	2.34	0.76
1:A:753:ASN:N	1:A:767:ASN:OD1	2.15	0.76
2:B:811:LEU:CD2	2:B:899:GLN:HB3	2.15	0.76
7:G:37:CYS:O	7:G:126:GLN:HG2	1.85	0.76
15:O:214:LEU:HG	15:O:242:ILE:CD1	2.15	0.76
15:O:353:ASP:OD1	17:Q:31:PHE:CD2	2.37	0.76
15:O:722:TRP:CE3	16:P:264:PRO:HG3	2.20	0.76
16:P:344:THR:O	16:P:345:SER:HB2	1.84	0.76
1:A:920:PHE:HB3	1:A:921:PRO:HD2	1.67	0.76
2:B:129:ARG:HD3	2:B:890:ASP:OD2	1.84	0.76
2:B:215:MET:HE3	2:B:217:ILE:CG2	2.15	0.76
15:O:222:GLN:N	15:O:225:LEU:CD2	2.47	0.76
15:O:499:GLU:OE1	15:O:499:GLU:HA	1.86	0.76
15:O:623:LEU:CD1	15:O:668:SER:HB2	2.14	0.76
16:P:257:VAL:C	16:P:262:LEU:HD13	2.09	0.76
16:P:416:ILE:CA	16:P:418:PRO:HD3	2.15	0.76
17:Q:410:TYR:CE2	17:Q:414:PHE:CZ	2.73	0.76
19:S:11:DG:N2	20:T:44:DC:O2	2.13	0.76
1:A:63:SER:C	2:B:1155:ASP:HB3	2.10	0.76
1:A:1263:LEU:HB3	1:A:1496:SER:HB2	1.68	0.76
1:A:1299:ASN:HA	1:A:1302:TYR:CZ	2.20	0.76
15:O:314:GLN:CG	15:O:330:PRO:O	2.33	0.76
15:O:384:ASP:HB3	15:O:389:TRP:CB	2.09	0.76
15:O:399:TRP:CD1	17:Q:134:PRO:CG	2.69	0.76
16:P:100:ALA:CB	16:P:209:ASN:HD22	1.98	0.76
16:P:125:PHE:HD2	16:P:129:PHE:CB	1.97	0.76
17:Q:208:TYR:CD1	17:Q:211:ARG:HD3	2.19	0.76
17:Q:354:LEU:HD11	17:Q:359:MET:CA	1.94	0.76
2:B:557:ASP:HB2	2:B:621:PRO:HD3	1.66	0.76
15:O:309:PRO:CD	15:O:365:TRP:CG	2.68	0.76
15:O:347:LEU:HD23	17:Q:152:ILE:CA	1.91	0.76
15:O:771:ILE:HG22	16:P:109:GLN:CD	1.99	0.76
17:Q:410:TYR:CE2	17:Q:414:PHE:HZ	2.02	0.76
17:Q:410:TYR:CZ	17:Q:414:PHE:CZ	2.74	0.76
1:A:52:LEU:O	1:A:63:SER:N	2.17	0.76
2:B:1182:LEU:HD12	2:B:1185:LEU:HB3	1.67	0.76
3:C:244:ALA:HB1	3:C:265:ALA:HB2	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:698:LYS:CE	16:P:126:PRO:HD3	2.11	0.76
15:O:740:ILE:CG2	16:P:267:TYR:HH	1.78	0.76
16:P:104:PHE:HE1	16:P:215:LEU:HD23	1.48	0.76
16:P:369:TRP:CZ3	16:P:377:PHE:CG	2.73	0.76
16:P:378:LEU:CD1	17:Q:234:LYS:HB3	2.15	0.76
1:A:381:SER:HB3	1:A:453:ILE:HB	1.67	0.76
1:A:1119:LYS:HD2	1:A:1120:TYR:CD2	2.19	0.76
2:B:289:PHE:CZ	2:B:293:ILE:HG21	2.21	0.76
2:B:547:HIS:ND1	2:B:760:TYR:OH	2.16	0.76
2:B:577:PHE:HE2	13:M:28:LYS:HE3	1.49	0.76
9:I:28:VAL:O	9:I:36:ILE:HA	1.86	0.76
13:M:43:LYS:O	13:M:49:ASP:CA	2.33	0.76
14:N:41:ASN:HA	14:N:44:ASN:HB3	1.67	0.76
15:O:328:ARG:N	15:O:340:LYS:HB2	2.01	0.76
16:P:116:ILE:HA	16:P:119:LEU:CD1	2.15	0.76
1:A:245:LYS:HB3	1:A:251:ILE:HD13	1.66	0.76
1:A:406:LEU:CD2	1:A:416:ARG:CG	2.59	0.76
1:A:467:PHE:HE2	1:A:1614:SER:HB2	1.27	0.76
2:B:103:SER:N	2:B:138:LEU:O	2.17	0.76
2:B:935:ASP:OD1	3:C:69:ARG:NH1	2.18	0.76
15:O:220:THR:OG1	15:O:228:ASN:O	2.03	0.76
15:O:431:ASP:CG	15:O:433:VAL:HG22	2.11	0.76
17:Q:355:THR:H	17:Q:359:MET:CG	1.76	0.76
2:B:726:MET:HG3	2:B:742:TYR:HB3	1.68	0.76
3:C:212:ILE:HG13	3:C:215:ASP:H	1.49	0.76
15:O:175:ASP:HB3	17:Q:195:LEU:HB3	1.68	0.76
15:O:315:PHE:O	15:O:316:ALA:HB2	1.82	0.76
16:P:261:ALA:O	16:P:263:PRO:HD3	1.85	0.76
16:P:358:PRO:HB3	17:Q:206:ARG:CZ	2.15	0.76
17:Q:352:TRP:CE3	17:Q:357:PRO:CG	2.58	0.76
17:Q:354:LEU:HD12	17:Q:359:MET:CA	2.16	0.76
1:A:468:ARG:O	2:B:1070:ARG:NH2	2.18	0.76
1:A:842:TRP:CD2	1:A:910:LYS:HE3	2.20	0.76
2:B:296:ASP:OD2	2:B:379:ARG:NH2	2.16	0.76
7:G:167:THR:N	7:G:218:VAL:O	2.16	0.76
15:O:314:GLN:CB	15:O:329:ILE:HD11	2.03	0.76
15:O:568:ILE:HG22	15:O:570:ASP:H	1.50	0.76
16:P:238:HIS:CE1	16:P:289:ARG:NH2	2.53	0.76
17:Q:294:VAL:N	17:Q:295:PRO:CD	2.48	0.76
1:A:52:LEU:CD1	1:A:60:ASN:HB3	2.16	0.75
2:B:585:CYS:HB2	2:B:595:TRP:CZ3	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:656:LEU:HD21	2:B:681:ILE:HD13	1.68	0.75
3:C:164:ALA:HA	3:C:193:LEU:HD11	1.68	0.75
5:E:72:PHE:HE1	5:E:157:SER:HA	1.51	0.75
12:L:31:CYS:CB	12:L:34:CYS:SG	2.73	0.75
14:N:52:GLN:HA	14:N:134:ASP:OD2	1.85	0.75
15:O:623:LEU:CD1	15:O:668:SER:O	2.33	0.75
16:P:195:ALA:HA	16:P:216:GLU:HB3	1.62	0.75
17:Q:133:LYS:HE3	17:Q:134:PRO:HD3	1.68	0.75
1:A:546:LEU:HD22	1:A:554:ARG:HG2	1.66	0.75
2:B:518:ARG:NH1	2:B:539:CYS:O	2.19	0.75
4:D:19:PRO:HB3	7:G:47:VAL:HG12	1.69	0.75
7:G:56:ASN:O	7:G:60:GLY:N	2.16	0.75
7:G:74:ASN:CB	7:G:77:VAL:HG22	2.13	0.75
14:N:80:MET:HB2	14:N:89:ILE:HD11	1.67	0.75
15:O:18:UNK:O	17:Q:256:GLU:CB	2.33	0.75
15:O:577:LEU:HD13	16:P:502:ILE:HG21	1.67	0.75
15:O:656:HIS:CG	15:O:747:LEU:H	2.02	0.75
16:P:166:TYR:O	16:P:170:THR:CG2	2.34	0.75
1:A:72:CYS:O	1:A:366:ARG:CZ	2.34	0.75
1:A:109:ARG:HG2	1:A:233:CYS:HA	1.66	0.75
1:A:925:MET:HA	1:A:928:MET:HE3	1.68	0.75
5:E:94:LYS:HB2	5:E:123:LEU:CD1	2.16	0.75
5:E:127:ILE:HB	5:E:129:PRO:CG	2.16	0.75
7:G:26:ASN:OD1	7:G:126:GLN:HG3	1.85	0.75
7:G:137:ILE:HA	7:G:147:LEU:HD23	1.67	0.75
11:K:49:LEU:HD13	11:K:63:PHE:HE1	1.52	0.75
12:L:27:LEU:HD23	12:L:29:TYR:OH	1.86	0.75
13:M:55:GLY:HA3	13:M:62:TYR:CZ	2.20	0.75
15:O:399:TRP:CD1	17:Q:134:PRO:HG3	2.21	0.75
16:P:103:LEU:HG	16:P:203:TRP:CZ3	2.21	0.75
16:P:247:ILE:HG12	16:P:303:GLU:OE2	1.87	0.75
17:Q:354:LEU:CD2	17:Q:359:MET:HA	2.13	0.75
1:A:469:LYS:HA	2:B:1070:ARG:CZ	2.16	0.75
2:B:143:TRP:HB3	2:B:152:LEU:CB	2.16	0.75
3:C:88:ASN:O	12:L:60:ARG:NH1	2.19	0.75
7:G:166:TRP:HZ3	7:G:225:ILE:CG2	1.99	0.75
7:G:229:LEU:HD21	7:G:249:LEU:HD11	1.68	0.75
13:M:55:GLY:HA3	13:M:62:TYR:CE2	2.21	0.75
15:O:205:TYR:HD2	15:O:215:ASN:HB3	1.49	0.75
15:O:241:PRO:HG2	15:O:266:GLU:OE1	1.87	0.75
15:O:314:GLN:CB	15:O:329:ILE:HD12	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:422:ILE:CG1	15:O:440:HIS:NE2	2.47	0.75
16:P:202:SER:O	16:P:206:GLN:HG2	1.87	0.75
16:P:330:TRP:CE3	16:P:331:ILE:HD13	2.20	0.75
16:P:402:MET:CB	16:P:407:LYS:N	2.39	0.75
17:Q:380:SER:O	17:Q:383:PHE:C	2.29	0.75
17:Q:395:LEU:N	17:Q:395:LEU:HD23	2.01	0.75
2:B:614:GLU:OE2	2:B:616:LYS:HE3	1.86	0.75
2:B:742:TYR:CE2	2:B:1037:ARG:HB2	2.21	0.75
2:B:854:GLU:HG3	2:B:876:SER:H	1.51	0.75
7:G:95:LEU:HD13	7:G:95:LEU:N	2.01	0.75
15:O:301:GLN:O	15:O:320:ILE:HG13	1.85	0.75
15:O:779:ASP:O	16:P:199:LEU:HD21	1.87	0.75
16:P:284:LEU:HD11	16:P:305:ARG:HE	1.50	0.75
17:Q:393:ILE:O	17:Q:395:LEU:HG	1.85	0.75
1:A:335:LEU:HD22	1:A:339:PHE:CE2	2.21	0.75
1:A:693:GLN:HB3	11:K:88:PHE:CE1	2.22	0.75
1:A:1175:MET:HA	1:A:1178:LEU:HD11	1.68	0.75
2:B:529:CYS:CB	2:B:698:SER:HB3	2.16	0.75
15:O:324:TRP:O	15:O:325:SER:OG	2.02	0.75
16:P:152:LEU:N	16:P:152:LEU:HD22	2.02	0.75
16:P:263:PRO:CG	16:P:266:PHE:CB	2.53	0.75
19:S:21:DT:O4	20:T:34:DA:N6	2.19	0.75
19:S:23:DG:O6	20:T:32:DC:N4	2.20	0.75
1:A:50:TYR:OH	1:A:383:ASN:ND2	2.20	0.75
1:A:438:ILE:HD13	2:B:1184:TYR:OH	1.86	0.75
1:A:482:SER:HB3	1:A:614:LEU:HD12	1.68	0.75
1:A:549:MET:O	1:A:554:ARG:NH1	2.19	0.75
1:A:1262:LEU:HD23	1:A:1497:ILE:HG22	1.68	0.75
15:O:409:ASP:O	15:O:411:LYS:N	2.20	0.75
15:O:720:GLN:O	15:O:724:LEU:HD22	1.86	0.75
16:P:108:PHE:CD2	16:P:137:TRP:CH2	2.75	0.75
16:P:150:GLU:O	16:P:152:LEU:HD22	1.86	0.75
1:A:403:LEU:O	1:A:407:GLN:OE1	2.04	0.75
1:A:418:VAL:O	1:A:421:SER:OG	2.04	0.75
1:A:439:ASP:OD1	1:A:458:GLN:NE2	2.20	0.75
1:A:696:ILE:HG23	1:A:700:ILE:HD12	1.69	0.75
1:A:1090:ASP:OD2	1:A:1093:SER:N	2.20	0.75
1:A:1136:VAL:HG12	1:A:1174:TYR:CD2	2.22	0.75
2:B:152:LEU:HD23	2:B:446:MET:SD	2.27	0.75
2:B:1045:GLN:CB	2:B:1063:ARG:HG3	2.06	0.75
5:E:178:ILE:CG2	5:E:214:CYS:HA	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:217:ALA:HB3	15:O:229:ARG:CZ	2.16	0.75
15:O:222:GLN:HB2	15:O:225:LEU:HG	0.75	0.75
15:O:615:ASN:CB	15:O:617:HIS:HD2	1.75	0.75
16:P:203:TRP:HA	16:P:206:GLN:CG	2.16	0.75
16:P:294:HIS:CD2	19:S:7:DT:C4	2.69	0.75
16:P:369:TRP:CZ3	17:Q:219:LEU:HD11	2.21	0.75
17:Q:355:THR:H	17:Q:359:MET:HG2	0.93	0.75
1:A:321:LYS:HD2	1:A:353:ASP:OD1	1.87	0.75
3:C:121:PRO:HD2	3:C:124:GLU:OE1	1.87	0.75
5:E:83:CYS:CB	5:E:112:TYR:HA	2.17	0.75
15:O:24:UNK:CB	17:Q:366:PHE:HE2	1.99	0.75
15:O:193:LEU:O	15:O:194:ARG:O	2.05	0.75
15:O:309:PRO:CD	15:O:365:TRP:NE1	2.48	0.75
15:O:357:LEU:N	15:O:357:LEU:HD23	2.02	0.75
15:O:436:ILE:HG12	17:Q:141:TRP:CE3	2.22	0.75
15:O:442:LEU:HD13	15:O:444:PRO:CD	2.13	0.75
15:O:499:GLU:CG	15:O:500:ILE:H	2.00	0.75
15:O:693:PHE:CG	15:O:746:ARG:CB	2.68	0.75
17:Q:356:PRO:CD	17:Q:357:PRO:N	2.49	0.75
17:Q:393:ILE:O	17:Q:395:LEU:HD23	1.87	0.75
1:A:596:HIS:HA	1:A:1191:GLN:CD	2.12	0.74
2:B:1132:SER:HB3	2:B:1163:GLN:CB	2.16	0.74
3:C:128:ASP:OD1	3:C:174:ARG:NH2	2.19	0.74
9:I:28:VAL:HG23	9:I:38:PRO:CD	2.17	0.74
15:O:23:UNK:O	17:Q:314:TRP:CE3	2.39	0.74
15:O:662:LEU:HD23	15:O:662:LEU:N	2.02	0.74
16:P:352:ILE:O	16:P:355:VAL:HG23	1.87	0.74
16:P:354:LYS:HB3	16:P:362:THR:HB	1.67	0.74
1:A:57:PHE:HA	1:A:69:GLU:OE2	1.87	0.74
1:A:381:SER:HB3	1:A:453:ILE:HD12	1.68	0.74
1:A:441:THR:HG23	1:A:458:GLN:HE21	1.50	0.74
1:A:878:ARG:NH2	9:I:66:VAL:O	2.19	0.74
1:A:1260:LYS:HA	1:A:1499:ARG:O	1.88	0.74
2:B:322:ASN:HB3	13:M:105:SER:HA	1.68	0.74
9:I:26:SER:O	9:I:38:PRO:O	2.04	0.74
13:M:80:LEU:HB3	13:M:89:GLN:HG2	1.68	0.74
14:N:111:VAL:N	14:N:120:LYS:O	2.15	0.74
15:O:221:ARG:HG2	15:O:227:LEU:HD22	1.69	0.74
15:O:322:GLY:CA	17:Q:157:MET:HG3	2.10	0.74
17:Q:354:LEU:C	17:Q:359:MET:HG2	2.05	0.74
15:O:313:GLN:C	15:O:315:PHE:N	2.42	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:315:PHE:HA	15:O:328:ARG:HA	1.69	0.74
16:P:359:ASP:C	16:P:361:PRO:HD3	2.12	0.74
16:P:479:LEU:C	16:P:479:LEU:HD23	2.12	0.74
1:A:335:LEU:HA	1:A:338:VAL:CB	2.16	0.74
1:A:464:GLU:O	1:A:468:ARG:HB2	1.87	0.74
7:G:26:ASN:HD21	7:G:126:GLN:HE21	1.34	0.74
7:G:82:LEU:HB2	7:G:123:TYR:O	1.88	0.74
13:M:37:THR:O	13:M:62:TYR:OH	2.05	0.74
15:O:663:LEU:HG	15:O:666:SER:CB	2.14	0.74
15:O:722:TRP:HE3	16:P:264:PRO:HG3	1.51	0.74
16:P:115:GLN:CG	16:P:190:MET:SD	2.76	0.74
16:P:222:PHE:CZ	17:Q:206:ARG:HG3	2.23	0.74
1:A:729:LYS:HE2	8:H:119:GLY:O	1.87	0.74
2:B:792:SER:HB3	3:C:217:ALA:HB2	1.69	0.74
2:B:1127:CYS:HB3	2:B:1163:GLN:HB2	1.69	0.74
8:H:93:TYR:CD1	8:H:145:ARG:HB2	2.22	0.74
13:M:10:ILE:H	14:N:73:ASP:HB2	1.53	0.74
15:O:389:TRP:CH2	17:Q:147:GLN:C	2.60	0.74
15:O:414:ILE:HB	15:O:425:GLY:CA	2.18	0.74
15:O:436:ILE:CG2	17:Q:141:TRP:CD2	2.56	0.74
15:O:659:LEU:HB2	15:O:742:TRP:HZ2	1.51	0.74
15:O:686:TYR:CG	15:O:692:THR:CG2	2.67	0.74
16:P:263:PRO:HB3	16:P:266:PHE:CD2	2.23	0.74
16:P:289:ARG:O	16:P:290:THR:C	2.29	0.74
16:P:315:ASN:HB2	16:P:480:LEU:HD11	1.68	0.74
16:P:338:LEU:O	16:P:340:GLN:N	2.19	0.74
16:P:483:ILE:HG22	16:P:487:LEU:HD23	1.70	0.74
17:Q:356:PRO:CB	17:Q:357:PRO:HD3	2.14	0.74
1:A:1115:LYS:HA	5:E:152:LYS:HZ1	1.51	0.74
5:E:3:GLN:O	5:E:7:ARG:CB	2.34	0.74
6:F:80:ALA:N	6:F:144:GLU:OE2	2.19	0.74
7:G:37:CYS:HB2	7:G:125:TRP:NE1	2.02	0.74
7:G:46:TYR:HB2	7:G:117:TRP:CH2	2.23	0.74
9:I:26:SER:O	9:I:38:PRO:C	2.30	0.74
9:I:28:VAL:C	9:I:37:TYR:H	1.95	0.74
9:I:36:ILE:HG21	9:I:39:LYS:HE3	1.68	0.74
15:O:421:ILE:HG13	17:Q:138:PHE:HE2	1.52	0.74
15:O:588:SER:HB3	16:P:512:ARG:HH12	1.50	0.74
15:O:596:ILE:HG21	16:P:317:MET:HE2	1.70	0.74
15:O:703:PHE:CZ	16:P:254:LEU:CD2	2.70	0.74
16:P:212:VAL:O	16:P:215:LEU:HG	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:S:9:DA:N6	20:T:46:DT:O4	2.16	0.74
1:A:1288:ARG:HB3	1:A:1476:LEU:HB2	1.68	0.74
2:B:349:VAL:O	2:B:353:VAL:HG23	1.86	0.74
2:B:1131:CYS:O	2:B:1163:GLN:CA	2.36	0.74
7:G:28:ILE:HD11	7:G:132:VAL:H	1.53	0.74
7:G:168:PHE:HD1	7:G:217:TRP:CD1	2.04	0.74
9:I:28:VAL:HG12	9:I:29:GLU:N	2.00	0.74
15:O:440:HIS:CE1	15:O:481:PHE:HE1	2.01	0.74
16:P:170:THR:HG1	16:P:239:PHE:HZ	0.74	0.74
1:A:111:LYS:NZ	1:A:115:VAL:N	2.22	0.74
1:A:801:TYR:CB	1:A:805:VAL:HG21	2.16	0.74
1:A:1233:ILE:HG22	1:A:1235:THR:H	1.51	0.74
2:B:736:ARG:O	2:B:904:LYS:NZ	2.19	0.74
8:H:107:VAL:HB	8:H:111:LEU:HB3	1.69	0.74
13:M:47:GLU:N	13:M:47:GLU:OE1	2.21	0.74
15:O:404:ASP:OD1	15:O:405:TYR:N	2.18	0.74
1:A:326:THR:HG23	1:A:329:ARG:HH22	1.53	0.74
1:A:658:LEU:HD23	1:A:665:PRO:HA	0.74	0.74
1:A:789:SER:O	1:A:790:LYS:HG2	1.88	0.74
1:A:1646:LEU:HD22	7:G:109:PRO:HB2	1.68	0.74
15:O:422:ILE:CG2	15:O:440:HIS:HE1	1.90	0.74
15:O:686:TYR:CD2	15:O:692:THR:CG2	2.62	0.74
15:O:740:ILE:HG23	16:P:267:TYR:OH	1.85	0.74
16:P:97:GLY:O	16:P:101:LYS:HG3	1.88	0.74
16:P:159:THR:HG21	16:P:226:LEU:HA	1.68	0.74
16:P:208:PRO:HB3	16:P:212:VAL:CG1	2.18	0.74
17:Q:208:TYR:HA	17:Q:211:ARG:CG	2.18	0.74
17:Q:410:TYR:CZ	17:Q:414:PHE:HZ	2.06	0.74
2:B:416:LYS:HG3	2:B:461:MET:CE	2.17	0.74
2:B:1113:THR:HG22	2:B:1166:LYS:HD2	1.70	0.74
3:C:142:ARG:NH2	10:J:67:GLU:OE2	2.16	0.74
7:G:45:LEU:HD11	7:G:118:CYS:HB2	1.70	0.74
8:H:8:ASP:O	8:H:57:VAL:N	2.21	0.74
15:O:279:SER:O	15:O:282:CYS:N	2.21	0.74
15:O:472:ARG:NH2	17:Q:200:THR:N	2.28	0.74
15:O:744:LEU:HD13	15:O:744:LEU:N	2.02	0.74
16:P:417:PHE:CD1	17:Q:258:LEU:HD11	2.18	0.74
2:B:1162:GLY:O	2:B:1164:GLY:N	2.21	0.73
3:C:120:LEU:HB2	3:C:124:GLU:OE1	1.88	0.73
3:C:257:GLY:N	3:C:266:TYR:O	2.19	0.73
9:I:56:PHE:O	9:I:61:ARG:NE	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:366:PHE:CD2	15:O:432:PRO:O	2.41	0.73
15:O:420:GLU:O	15:O:421:ILE:HG13	1.88	0.73
15:O:663:LEU:CG	15:O:666:SER:HB3	2.14	0.73
16:P:284:LEU:HB3	16:P:302:ALA:HB1	1.70	0.73
16:P:287:TRP:HZ2	16:P:298:VAL:HG11	1.51	0.73
16:P:337:SER:HA	16:P:448:LYS:CE	2.17	0.73
16:P:359:ASP:CG	16:P:361:PRO:HD3	2.13	0.73
17:Q:153:ASN:O	17:Q:156:LYS:CG	2.36	0.73
1:A:121:LYS:NZ	1:A:137:ASP:OD1	2.19	0.73
1:A:406:LEU:HD21	1:A:416:ARG:HG3	1.68	0.73
1:A:658:LEU:CD2	1:A:665:PRO:CG	2.66	0.73
1:A:960:MET:SD	2:B:670:VAL:HG13	2.27	0.73
1:A:1151:ASN:O	1:A:1155:PHE:N	2.16	0.73
1:A:1504:ILE:CD1	1:A:1525:ASN:HB3	2.18	0.73
1:A:1640:ARG:HG2	1:A:1645:LYS:HB2	1.70	0.73
2:B:75:ASP:CB	2:B:440:PHE:CZ	2.67	0.73
7:G:12:GLU:OE1	7:G:15:ARG:NE	2.19	0.73
10:J:1:MET:HE1	10:J:60:PHE:HD2	1.53	0.73
15:O:352:PHE:O	15:O:355:GLU:HG3	1.86	0.73
15:O:353:ASP:OD2	17:Q:28:SER:C	2.30	0.73
15:O:589:ILE:HG21	16:P:320:PHE:CD2	2.17	0.73
15:O:669:PHE:CD1	15:O:669:PHE:O	2.40	0.73
16:P:203:TRP:HA	16:P:206:GLN:HG2	1.70	0.73
16:P:431:ASP:OD1	16:P:434:HIS:O	2.05	0.73
17:Q:354:LEU:CD1	17:Q:358:PHE:C	2.61	0.73
2:B:146:ASN:ND2	2:B:149:GLU:OE1	2.20	0.73
2:B:335:ARG:CG	2:B:341:SER:OG	2.36	0.73
2:B:1182:LEU:HD12	2:B:1185:LEU:CB	2.16	0.73
3:C:334:THR:OG1	11:K:47:ILE:O	2.02	0.73
13:M:62:TYR:CB	13:M:100:VAL:HG22	2.19	0.73
15:O:436:ILE:CG1	17:Q:141:TRP:CZ3	2.72	0.73
15:O:456:VAL:HB	15:O:463:LEU:HD11	1.70	0.73
15:O:656:HIS:O	15:O:747:LEU:CB	2.36	0.73
16:P:227:TYR:CE2	16:P:301:HIS:HB3	2.20	0.73
5:E:54:GLN:O	5:E:58:MET:N	2.20	0.73
16:P:100:ALA:C	16:P:211:TYR:OH	2.31	0.73
16:P:103:LEU:HG	16:P:203:TRP:HZ3	1.54	0.73
16:P:193:PHE:CB	17:Q:208:TYR:CE2	2.70	0.73
17:Q:388:LYS:HD2	17:Q:393:ILE:CB	2.18	0.73
1:A:539:GLU:HB2	1:A:573:LEU:CB	2.17	0.73
2:B:858:ILE:CD1	2:B:874:TYR:HB2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:58:MET:HE2	5:E:82:PHE:CD2	2.23	0.73
14:N:95:ILE:CG1	14:N:96:GLU:N	2.45	0.73
15:O:323:ASN:O	15:O:348:HIS:HB3	1.87	0.73
15:O:658:LYS:CA	15:O:659:LEU:HD13	2.18	0.73
16:P:219:ILE:HG13	16:P:220:SER:N	2.03	0.73
16:P:257:VAL:HG12	16:P:262:LEU:CA	2.17	0.73
17:Q:393:ILE:HD11	17:Q:395:LEU:O	1.88	0.73
1:A:61:LEU:HD13	1:A:66:GLY:O	1.88	0.73
1:A:791:TYR:O	1:A:795:HIS:CB	2.36	0.73
2:B:176:SER:N	2:B:179:GLU:OE1	2.19	0.73
2:B:825:PHE:HA	2:B:861:TYR:HA	1.70	0.73
8:H:10:PHE:CE1	8:H:30:SER:HB2	2.24	0.73
15:O:23:UNK:O	17:Q:314:TRP:HZ3	1.64	0.73
15:O:225:LEU:HD13	15:O:225:LEU:N	2.04	0.73
15:O:725:VAL:HG13	16:P:449:GLN:HG3	1.64	0.73
1:A:657:TYR:OH	1:A:795:HIS:HA	1.89	0.73
1:A:746:GLY:HA3	1:A:773:ASP:C	2.14	0.73
15:O:275:GLU:CG	15:O:285:MET:CG	2.67	0.73
15:O:623:LEU:HD11	15:O:669:PHE:N	2.03	0.73
15:O:659:LEU:O	15:O:742:TRP:HZ2	1.72	0.73
16:P:186:CYS:SG	16:P:349:GLY:CA	2.77	0.73
16:P:496:GLU:O	16:P:499:LYS:HB2	1.88	0.73
17:Q:355:THR:C	17:Q:359:MET:CB	2.62	0.73
19:S:12:DA:N6	20:T:43:DT:O4	2.17	0.73
1:A:920:PHE:CE1	1:A:930:LEU:HD23	2.00	0.73
1:A:990:ILE:O	2:B:984:TRP:NE1	2.22	0.73
2:B:555:GLN:HB2	2:B:645:GLY:HA2	1.69	0.73
14:N:96:GLU:C	14:N:105:SER:HB2	2.13	0.73
15:O:364:GLU:OE2	15:O:407:ARG:HD2	1.89	0.73
15:O:474:LYS:HD2	15:O:499:GLU:H	1.54	0.73
16:P:105:LEU:O	16:P:109:GLN:HG3	1.89	0.73
16:P:200:PRO:CB	16:P:203:TRP:CD1	2.72	0.73
1:A:1275:THR:O	1:A:1289:SER:HB2	1.89	0.73
2:B:36:PRO:O	2:B:40:GLU:HB2	1.89	0.73
2:B:726:MET:HG3	2:B:742:TYR:CB	2.19	0.73
3:C:152:ASP:O	3:C:155:GLU:N	2.22	0.73
3:C:248:GLN:NE2	3:C:256:ILE:O	2.21	0.73
9:I:34:LYS:HB2	13:M:59:ARG:NH1	2.04	0.73
17:Q:280:SER:OG	17:Q:301:SER:HB3	1.79	0.73
1:A:81:LEU:HD12	1:A:358:ASP:CA	2.19	0.73
2:B:282:HIS:O	13:M:99:LYS:HD2	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:342:PRO:O	2:B:343:ASP:HB2	1.88	0.73
2:B:1002:LYS:HG2	14:N:166:LEU:CD1	2.19	0.73
3:C:148:LYS:HZ3	3:C:151:THR:HG23	1.54	0.73
15:O:399:TRP:CH2	17:Q:294:VAL:HG12	2.24	0.73
15:O:657:SER:O	15:O:658:LYS:HG2	1.88	0.73
15:O:706:GLU:OE2	16:P:346:GLU:CD	2.31	0.73
16:P:278:GLU:HA	16:P:309:TYR:OH	1.89	0.73
16:P:362:THR:C	16:P:365:ASP:CG	2.57	0.73
17:Q:380:SER:CB	17:Q:438:PHE:CZ	2.72	0.73
1:A:24:ILE:O	1:A:28:SER:HB2	1.89	0.72
1:A:833:LEU:HA	1:A:944:MET:CE	2.16	0.72
1:A:1112:PRO:CG	1:A:1114:TYR:CE2	2.72	0.72
14:N:26:PRO:C	14:N:28:GLY:N	2.47	0.72
15:O:53:UNK:O	15:O:554:ASN:ND2	2.22	0.72
15:O:264:ILE:HG21	15:O:302:VAL:HB	1.71	0.72
15:O:399:TRP:CD1	17:Q:134:PRO:HB3	2.22	0.72
15:O:433:VAL:CB	17:Q:144:VAL:HG11	2.05	0.72
15:O:569:VAL:CG2	16:P:478:ARG:CA	2.66	0.72
15:O:669:PHE:O	15:O:738:LYS:HE2	1.89	0.72
16:P:184:TRP:CD1	16:P:190:MET:H	2.06	0.72
16:P:274:ILE:HA	16:P:278:GLU:CB	2.18	0.72
1:A:249:THR:HG21	1:A:432:ASN:HB2	1.69	0.72
1:A:469:LYS:CA	2:B:1070:ARG:NH2	2.47	0.72
1:A:1294:MET:HE3	1:A:1472:PHE:HZ	1.54	0.72
2:B:362:LEU:HD12	2:B:370:LYS:HG2	1.69	0.72
3:C:91:VAL:HG13	3:C:200:GLN:HE22	1.52	0.72
3:C:141:THR:OG1	3:C:158:ASN:HB3	1.90	0.72
15:O:352:PHE:CB	15:O:354:PRO:HD2	2.18	0.72
16:P:167:LEU:O	16:P:170:THR:OG1	2.07	0.72
16:P:235:GLY:O	16:P:289:ARG:HD2	1.89	0.72
16:P:401:GLU:O	16:P:402:MET:HB2	1.88	0.72
17:Q:247:ILE:HG13	17:Q:298:GLN:CB	2.15	0.72
17:Q:247:ILE:O	17:Q:250:LEU:HB2	1.90	0.72
17:Q:354:LEU:CD1	17:Q:359:MET:C	2.62	0.72
1:A:77:GLY:O	1:A:362:VAL:N	2.22	0.72
2:B:156:ARG:CZ	2:B:450:LEU:HD22	2.17	0.72
2:B:505:ARG:HG3	2:B:509:PHE:HD2	1.54	0.72
3:C:146:ALA:HB3	3:C:151:THR:HG21	1.60	0.72
4:D:28:PRO:HB3	7:G:41:VAL:HB	1.71	0.72
7:G:32:ASN:OD1	7:G:230:ARG:NH2	2.18	0.72
7:G:97:LYS:O	7:G:98:GLU:CB	2.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:41:GLN:OE1	9:I:43:SER:OG	2.08	0.72
15:O:202:ILE:H	15:O:202:ILE:CD1	1.95	0.72
15:O:310:TRP:HB2	15:O:368:HIS:CE1	2.24	0.72
15:O:362:ARG:NH1	15:O:364:GLU:OE1	2.20	0.72
15:O:375:PHE:CD2	15:O:380:MET:HA	2.24	0.72
16:P:115:GLN:OE1	16:P:161:THR:CG2	2.36	0.72
17:Q:174:GLU:HA	17:Q:177:LEU:HB2	1.71	0.72
17:Q:251:TRP:CE3	17:Q:308:PHE:HB3	2.25	0.72
1:A:1:MET:HB2	2:B:1094:ASN:HB3	1.72	0.72
1:A:529:LYS:O	1:A:530:TRP:O	2.07	0.72
1:A:690:GLU:HG2	11:K:81:MET:CE	2.20	0.72
1:A:718:THR:N	1:A:725:LEU:O	2.22	0.72
2:B:93:ASN:O	2:B:440:PHE:HE2	1.73	0.72
2:B:211:ARG:HB3	2:B:401:GLU:OE2	1.89	0.72
7:G:15:ARG:HG2	7:G:19:LYS:HD2	1.71	0.72
7:G:74:ASN:N	7:G:79:GLY:O	2.19	0.72
15:O:294:PHE:CD2	15:O:300:LEU:CB	2.55	0.72
17:Q:354:LEU:HG	17:Q:359:MET:CB	2.02	0.72
1:A:239:PHE:CE2	1:A:267:LYS:HD2	2.25	0.72
1:A:680:LEU:HD12	1:A:820:TYR:CD1	2.24	0.72
1:A:1119:LYS:O	1:A:1120:TYR:CG	2.42	0.72
1:A:1298:ASP:CB	1:A:1301:GLU:HG3	2.17	0.72
3:C:148:LYS:NZ	3:C:155:GLU:OE2	2.22	0.72
5:E:101:GLN:OE1	5:E:129:PRO:HB2	1.89	0.72
7:G:166:TRP:HZ3	7:G:225:ILE:HG21	1.53	0.72
8:H:62:SER:HA	8:H:141:TYR:CE1	2.25	0.72
15:O:352:PHE:HB3	15:O:354:PRO:CD	2.20	0.72
15:O:442:LEU:C	15:O:442:LEU:HD12	2.15	0.72
15:O:715:TYR:HE1	15:O:734:LYS:HG3	1.47	0.72
16:P:369:TRP:HZ3	17:Q:219:LEU:HD11	1.53	0.72
19:S:22:DG:O6	20:T:32:DC:N4	2.23	0.72
1:A:727:THR:OG1	1:A:730:GLN:HG3	1.88	0.72
1:A:786:TYR:HD1	1:A:786:TYR:H	1.34	0.72
1:A:790:LYS:NZ	1:A:791:TYR:HE2	1.84	0.72
2:B:677:THR:N	2:B:680:GLU:OE2	2.23	0.72
2:B:851:TYR:CE1	2:B:879:PRO:HB2	2.24	0.72
15:O:366:PHE:CD2	15:O:432:PRO:C	2.65	0.72
15:O:382:GLU:O	15:O:383:ILE:HD13	1.89	0.72
16:P:165:LEU:HD23	16:P:165:LEU:C	2.14	0.72
16:P:183:LYS:CD	16:P:189:LYS:HZ2	1.93	0.72
16:P:282:ARG:HB3	16:P:282:ARG:CZ	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:158:THR:CG2	17:Q:161:ASN:CB	2.67	0.72
17:Q:303:THR:HG23	17:Q:304:HIS:H	1.54	0.72
1:A:83:VAL:CG1	1:A:427:PHE:CZ	2.71	0.72
1:A:403:LEU:HD23	1:A:407:GLN:CD	2.14	0.72
1:A:530:TRP:CE3	1:A:531:PRO:CD	2.70	0.72
1:A:530:TRP:HE3	1:A:531:PRO:CD	1.94	0.72
15:O:222:GLN:HE21	15:O:228:ASN:H	0.72	0.72
15:O:260:LEU:HD23	15:O:273:ARG:C	2.08	0.72
15:O:434:ARG:O	17:Q:143:THR:O	2.07	0.72
16:P:198:ILE:HD13	16:P:198:ILE:N	2.02	0.72
17:Q:355:THR:HB	17:Q:356:PRO:HD3	0.74	0.72
1:A:18:ILE:HD13	1:A:354:SER:HB3	1.71	0.72
1:A:413:LEU:HD12	1:A:413:LEU:O	1.89	0.72
16:P:101:LYS:CE	16:P:152:LEU:CD1	2.34	0.72
16:P:158:MET:SD	16:P:219:ILE:O	2.48	0.72
16:P:238:HIS:NE2	16:P:289:ARG:NE	2.38	0.72
16:P:363:SER:O	16:P:366:TYR:CD2	2.43	0.72
16:P:378:LEU:CD1	17:Q:234:LYS:HB2	2.18	0.72
16:P:417:PHE:HE1	17:Q:258:LEU:CG	2.01	0.72
1:A:1113:HIS:CE1	1:A:1114:TYR:HD1	2.08	0.72
2:B:261:ARG:HG3	2:B:270:LEU:HD13	1.71	0.72
2:B:1132:SER:HB2	2:B:1160:GLU:HB3	1.71	0.72
8:H:48:PRO:O	8:H:146:ARG:NH1	2.23	0.72
9:I:28:VAL:HG23	9:I:38:PRO:CG	2.20	0.72
9:I:41:GLN:NE2	9:I:43:SER:H	1.87	0.72
15:O:214:LEU:CA	15:O:236:ILE:CG2	2.67	0.72
15:O:353:ASP:CB	17:Q:31:PHE:HB3	2.20	0.72
15:O:604:ILE:CG1	15:O:732:LEU:CD2	2.66	0.72
15:O:704:LEU:HD23	15:O:704:LEU:N	2.03	0.72
16:P:185:ILE:HD12	17:Q:208:TYR:OH	1.89	0.72
16:P:219:ILE:HD13	17:Q:207:ASN:CA	2.18	0.72
17:Q:133:LYS:HB3	17:Q:134:PRO:CD	2.20	0.72
17:Q:142:ARG:HG3	17:Q:142:ARG:NH1	2.00	0.72
1:A:23:GLU:OE2	2:B:1130:ARG:NH1	2.23	0.72
1:A:35:PRO:HD3	1:A:394:LEU:HD11	1.72	0.72
1:A:52:LEU:HB2	1:A:63:SER:OG	1.89	0.72
1:A:344:ASN:HD21	1:A:348:LYS:N	1.86	0.72
1:A:1610:PHE:HB2	1:A:1639:ALA:HB2	1.71	0.72
5:E:106:GLN:O	5:E:130:ALA:CB	2.37	0.72
7:G:96:SER:C	7:G:98:GLU:H	1.98	0.72
11:K:83:ASN:HB3	11:K:86:VAL:HG23	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:472:ARG:HH12	17:Q:203:SER:CB	2.00	0.72
15:O:529:GLU:HG2	15:O:530:ASN:N	2.05	0.72
15:O:701:HIS:CE1	16:P:123:MET:CA	2.67	0.72
16:P:274:ILE:HA	16:P:278:GLU:HB2	1.70	0.72
1:A:63:SER:HA	2:B:1155:ASP:OD2	1.90	0.71
1:A:81:LEU:CD1	1:A:358:ASP:N	2.49	0.71
1:A:1314:GLN:NE2	1:A:1460:TYR:OH	2.22	0.71
2:B:130:LEU:HD21	2:B:737:SER:HB2	1.71	0.71
2:B:1069:ILE:HD12	2:B:1069:ILE:O	1.89	0.71
14:N:26:PRO:C	14:N:28:GLY:H	1.98	0.71
14:N:41:ASN:OD1	14:N:44:ASN:HB3	1.90	0.71
14:N:109:LEU:HD23	14:N:122:ALA:CB	2.16	0.71
15:O:775:TRP:CZ3	16:P:134:LYS:HG3	2.25	0.71
16:P:157:HIS:ND1	16:P:159:THR:CB	2.45	0.71
16:P:400:MET:O	16:P:401:GLU:HB2	1.89	0.71
17:Q:124:GLU:OE2	17:Q:289:ASN:ND2	2.21	0.71
17:Q:247:ILE:CB	17:Q:298:GLN:HG2	2.20	0.71
1:A:104:PHE:HB2	1:A:238:MET:CG	2.21	0.71
15:O:269:PHE:HZ	15:O:292:LEU:HD21	1.54	0.71
15:O:596:ILE:CG2	16:P:317:MET:HE2	2.19	0.71
15:O:780:ILE:CB	16:P:199:LEU:HD11	2.19	0.71
16:P:115:GLN:O	16:P:119:LEU:HG	1.90	0.71
16:P:119:LEU:HD22	16:P:165:LEU:HD11	1.71	0.71
16:P:144:ILE:C	16:P:147:GLN:NE2	2.48	0.71
16:P:401:GLU:O	16:P:407:LYS:HE3	1.90	0.71
17:Q:5:PRO:CB	17:Q:244:GLY:O	2.38	0.71
17:Q:354:LEU:CA	17:Q:359:MET:H	2.03	0.71
1:A:49:LEU:O	1:A:54:LEU:HD12	1.90	0.71
1:A:109:ARG:HB2	1:A:230:ARG:HG3	1.72	0.71
2:B:123:PRO:HG2	2:B:172:LEU:CD1	2.19	0.71
2:B:677:THR:OG1	2:B:680:GLU:HG2	1.91	0.71
3:C:325:ALA:HB2	11:K:124:LEU:HD23	1.72	0.71
6:F:94:LEU:HD21	6:F:125:LEU:HB2	1.71	0.71
15:O:373:LEU:CB	15:O:375:PHE:CZ	2.62	0.71
15:O:412:ASN:HA	15:O:427:SER:OG	1.90	0.71
15:O:461:HIS:CB	15:O:484:ARG:HG2	2.19	0.71
15:O:578:PHE:CE1	16:P:312:LEU:HD12	2.25	0.71
16:P:101:LYS:HD3	16:P:152:LEU:CD1	2.19	0.71
16:P:144:ILE:CG2	16:P:154:LEU:HG	2.20	0.71
16:P:354:LYS:CD	16:P:362:THR:CG2	2.68	0.71
16:P:491:PHE:C	16:P:493:ILE:H	1.98	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:GLN:H	1:A:593:PRO:HD2	1.54	0.71
1:A:704:ASP:OD2	1:A:706:HIS:NE2	2.23	0.71
1:A:746:GLY:HA3	1:A:773:ASP:O	1.91	0.71
2:B:470:LEU:HD13	2:B:484:TYR:CD2	2.25	0.71
5:E:7:ARG:HG2	5:E:11:ARG:NE	2.05	0.71
5:E:88:VAL:HG21	5:E:110:PHE:HE2	1.55	0.71
8:H:36:CYS:HA	8:H:126:GLU:O	1.89	0.71
11:K:58:GLY:C	11:K:59:THR:CG2	2.63	0.71
15:O:11:UNK:O	15:O:436:ILE:CD1	2.38	0.71
15:O:296:GLU:OE1	15:O:296:GLU:N	2.21	0.71
17:Q:358:PHE:HD1	17:Q:365:TRP:CH2	2.09	0.71
2:B:328:GLN:HE22	13:M:108:LEU:HB2	1.55	0.71
2:B:1195:ARG:HH12	2:B:1196:LEU:C	1.95	0.71
15:O:260:LEU:HD12	15:O:271:ILE:HG23	1.72	0.71
15:O:375:PHE:HE2	15:O:380:MET:HB3	1.52	0.71
16:P:195:ALA:HB1	16:P:216:GLU:OE1	1.90	0.71
16:P:389:GLN:OE1	16:P:389:GLN:HA	1.89	0.71
1:A:252:PHE:HB3	1:A:312:SER:O	1.91	0.71
1:A:646:GLU:OE1	2:B:1087:LEU:HB2	1.91	0.71
1:A:1120:TYR:O	5:E:207:ARG:NH2	2.23	0.71
10:J:16:ASP:OD1	10:J:17:LYS:HG3	1.91	0.71
15:O:175:ASP:OD2	17:Q:190:SER:CB	2.38	0.71
15:O:214:LEU:CG	15:O:242:ILE:HD13	2.20	0.71
15:O:269:PHE:HE1	15:O:339:ARG:CD	2.03	0.71
15:O:414:ILE:HD12	15:O:425:GLY:CA	2.20	0.71
16:P:106:LYS:HA	16:P:109:GLN:OE1	1.91	0.71
16:P:179:CYS:HB2	16:P:255:LYS:HD3	1.72	0.71
17:Q:21:TYR:CD2	17:Q:124:GLU:HB2	2.25	0.71
1:A:835:LEU:HD23	1:A:916:THR:HA	1.72	0.71
1:A:1531:ASP:OD1	5:E:7:ARG:NH2	2.23	0.71
2:B:287:GLU:HG3	13:M:27:PHE:HB3	1.71	0.71
3:C:80:ALA:HA	3:C:208:CYS:HA	1.72	0.71
14:N:111:VAL:HG22	14:N:120:LYS:O	1.91	0.71
14:N:150:TYR:O	14:N:154:ARG:HG2	1.90	0.71
15:O:437:SER:HB2	15:O:489:PHE:CD2	2.25	0.71
15:O:454:GLN:OE1	15:O:535:VAL:HG23	1.91	0.71
15:O:686:TYR:HB3	15:O:692:THR:HG23	1.73	0.71
16:P:104:PHE:CE2	16:P:155:GLN:CB	2.73	0.71
16:P:235:GLY:CA	16:P:289:ARG:CA	2.66	0.71
16:P:239:PHE:C	16:P:243:PHE:HD2	1.99	0.71
16:P:487:LEU:CD1	16:P:498:LEU:HD11	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:5:PRO:HD3	17:Q:217:THR:HG21	1.72	0.71
1:A:893:ASP:OD1	1:A:956:ARG:NH2	2.24	0.71
1:A:1655:ASP:HB3	6:F:135:ARG:HB3	1.73	0.71
3:C:63:ILE:HG22	3:C:67:PHE:CE2	2.24	0.71
5:E:69:ILE:HD12	5:E:72:PHE:O	1.90	0.71
7:G:140:GLN:OE1	7:G:216:HIS:HA	1.91	0.71
15:O:353:ASP:CG	17:Q:31:PHE:HB3	2.15	0.71
15:O:464:LEU:N	15:O:481:PHE:O	2.22	0.71
15:O:604:ILE:CG1	15:O:732:LEU:HD21	2.20	0.71
15:O:768:TYR:CD2	16:P:145:ASN:ND2	2.23	0.71
16:P:101:LYS:HD2	16:P:152:LEU:HD12	0.71	0.71
1:A:489:ASN:HB2	11:K:95:HIS:HD2	1.56	0.71
1:A:723:TYR:HD2	1:A:725:LEU:HD21	1.55	0.71
1:A:1497:ILE:HD12	1:A:1497:ILE:O	1.90	0.71
2:B:12:ARG:HG3	2:B:15:ASP:OD2	1.91	0.71
2:B:612:LYS:NZ	2:B:624:LEU:O	2.21	0.71
7:G:93:ASP:O	7:G:96:SER:OG	2.08	0.71
15:O:319:ASP:CG	15:O:348:HIS:CE1	2.67	0.71
15:O:616:SER:HA	15:O:619:GLU:N	2.05	0.71
16:P:94:LYS:HG2	16:P:207:LEU:CD1	2.20	0.71
16:P:147:GLN:H	16:P:147:GLN:CD	1.98	0.71
16:P:177:TYR:HE1	16:P:226:LEU:HD11	1.56	0.71
16:P:344:THR:HA	16:P:436:LEU:O	1.90	0.71
17:Q:285:VAL:HG23	17:Q:302:ARG:NH1	2.06	0.71
1:A:321:LYS:HB2	1:A:356:PHE:CE2	2.25	0.71
1:A:392:THR:HG22	1:A:430:ILE:HB	1.73	0.71
1:A:855:ARG:HH12	1:A:867:ASP:HA	1.53	0.71
1:A:1151:ASN:HB3	1:A:1154:LEU:HB3	1.70	0.71
1:A:1200:MET:HG2	1:A:1573:TYR:HD2	1.51	0.71
2:B:186:GLU:O	2:B:188:ASP:N	2.24	0.71
2:B:1104:CYS:HB2	2:B:1107:CYS:SG	2.28	0.71
9:I:29:GLU:HA	9:I:35:ALA:O	1.90	0.71
15:O:275:GLU:CA	15:O:285:MET:O	2.38	0.71
15:O:314:GLN:HB3	15:O:329:ILE:HG13	0.75	0.71
16:P:100:ALA:O	16:P:211:TYR:OH	2.08	0.71
16:P:246:GLU:HG2	16:P:286:LEU:HB3	1.70	0.71
16:P:247:ILE:CD1	16:P:286:LEU:HD12	2.21	0.71
1:A:109:ARG:HH21	1:A:240:SER:HB2	0.90	0.70
1:A:246:ASP:OD1	1:A:247:GLY:N	2.24	0.70
2:B:749:THR:OG1	2:B:763:ASP:OD1	2.08	0.70
2:B:773:VAL:CG2	2:B:1033:TYR:HE2	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:104:PHE:CZ	8:H:136:LYS:HB3	2.26	0.70
9:I:23:VAL:CG2	9:I:38:PRO:HG3	2.21	0.70
10:J:21:TYR:CZ	10:J:25:LEU:HD11	2.26	0.70
15:O:221:ARG:HG2	15:O:227:LEU:CD2	2.20	0.70
15:O:353:ASP:HB3	17:Q:31:PHE:HB3	1.72	0.70
15:O:424:VAL:HG23	15:O:437:SER:OG	1.90	0.70
16:P:105:LEU:HD23	16:P:109:GLN:NE2	2.05	0.70
16:P:146:ASP:CA	16:P:148:PRO:HD3	2.21	0.70
16:P:158:MET:C	16:P:192:TYR:HE1	1.99	0.70
16:P:418:PRO:C	16:P:419:LEU:HG	2.16	0.70
17:Q:158:THR:O	17:Q:161:ASN:N	2.23	0.70
1:A:258:GLU:HA	1:A:261:ILE:HB	1.73	0.70
1:A:1655:ASP:OD2	7:G:106:LYS:NZ	2.24	0.70
9:I:8:ILE:C	9:I:16:LEU:HD12	2.16	0.70
13:M:26:PHE:CE1	13:M:98:SER:HB2	2.26	0.70
15:O:12:UNK:CA	15:O:436:ILE:HD11	2.11	0.70
15:O:273:ARG:HB2	15:O:287:SER:HG	1.55	0.70
15:O:346:ASN:HD22	17:Q:155:GLN:CB	2.02	0.70
16:P:94:LYS:HG2	16:P:207:LEU:CB	2.17	0.70
16:P:336:GLU:C	16:P:339:THR:HG23	2.09	0.70
1:A:335:LEU:HD22	1:A:339:PHE:HE2	1.55	0.70
1:A:1241:PRO:HB3	1:A:1516:LYS:CE	2.21	0.70
3:C:154:LYS:HE3	3:C:161:HIS:CE1	2.25	0.70
3:C:315:PHE:HB3	3:C:319:ARG:NH2	2.06	0.70
5:E:55:ARG:HD2	5:E:113:GLN:HE21	1.55	0.70
5:E:175:LEU:HD12	5:E:213:ILE:HD12	1.72	0.70
13:M:60:LEU:HG	13:M:102:SER:CB	2.20	0.70
15:O:299:ASP:CB	17:Q:159:TYR:CD2	2.70	0.70
15:O:438:TRP:HE1	15:O:489:PHE:CB	2.03	0.70
15:O:499:GLU:HG2	15:O:550:TYR:OH	1.90	0.70
15:O:714:PHE:CE2	15:O:741:ILE:CD1	2.74	0.70
16:P:114:ARG:NH1	16:P:197:GLU:OE2	2.24	0.70
16:P:177:TYR:HE1	16:P:226:LEU:CD1	2.01	0.70
16:P:294:HIS:HD2	20:T:48:DA:C6	2.05	0.70
16:P:386:LEU:N	16:P:387:PRO:HD2	2.06	0.70
17:Q:381:ARG:O	17:Q:384:VAL:HG23	1.91	0.70
1:A:1115:LYS:HG3	5:E:152:LYS:NZ	2.06	0.70
1:A:1660:VAL:N	7:G:103:LYS:O	2.16	0.70
2:B:1040:VAL:HG13	2:B:1043:LYS:HG3	1.72	0.70
3:C:143:ASN:HD22	3:C:155:GLU:C	1.99	0.70
5:E:10:SER:HA	5:E:39:LEU:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:207:SER:OG	15:O:215:ASN:ND2	2.24	0.70
15:O:383:ILE:HA	15:O:390:GLN:CG	2.21	0.70
15:O:599:LYS:HD3	16:P:272:GLN:CD	2.15	0.70
16:P:263:PRO:HG3	16:P:266:PHE:CG	2.25	0.70
19:S:22:DG:O6	20:T:33:DC:N4	2.22	0.70
1:A:104:PHE:HE1	1:A:239:PHE:O	1.74	0.70
1:A:365:THR:OG1	1:A:368:ARG:NH2	2.24	0.70
1:A:486:PRO:HB3	1:A:628:PHE:CE2	2.26	0.70
1:A:747:ILE:HD12	1:A:797:LEU:HD23	1.71	0.70
2:B:395:ASP:OD1	2:B:505:ARG:NH2	2.24	0.70
2:B:748:GLN:OE1	2:B:770:ASN:N	2.22	0.70
2:B:1153:ILE:HD12	2:B:1159:TRP:NE1	2.06	0.70
4:D:19:PRO:HB3	7:G:47:VAL:CG1	2.20	0.70
5:E:27:GLY:O	5:E:65:THR:HG23	1.92	0.70
7:G:24:VAL:O	7:G:128:GLN:NE2	2.23	0.70
15:O:242:ILE:HA	15:O:265:THR:HG22	1.71	0.70
15:O:388:ASN:HB3	17:Q:150:GLN:CG	2.21	0.70
15:O:408:ILE:CD1	15:O:464:LEU:HD13	2.21	0.70
16:P:386:LEU:H	16:P:387:PRO:HD3	1.55	0.70
1:A:118:TYR:OH	1:A:226:LYS:HG3	1.90	0.70
1:A:488:PRO:HD2	2:B:781:TYR:CZ	2.27	0.70
1:A:771:PHE:CE1	1:A:793:ILE:HD13	2.27	0.70
1:A:1101:THR:HG22	1:A:1120:TYR:CG	2.26	0.70
1:A:1152:SER:HA	1:A:1155:PHE:HB2	1.73	0.70
2:B:12:ARG:HA	2:B:15:ASP:OD1	1.91	0.70
7:G:162:ILE:HD12	7:G:217:TRP:HZ3	1.56	0.70
11:K:88:PHE:HB3	11:K:106:GLN:HG2	1.72	0.70
15:O:314:GLN:C	15:O:329:ILE:HG13	2.17	0.70
15:O:399:TRP:NE1	17:Q:134:PRO:HG2	1.79	0.70
15:O:434:ARG:H	17:Q:144:VAL:CG2	2.05	0.70
16:P:100:ALA:CB	16:P:211:TYR:OH	2.38	0.70
1:A:596:HIS:CD2	1:A:598:ALA:HB3	2.27	0.70
1:A:1320:GLN:NE2	1:A:1496:SER:HA	2.07	0.70
2:B:167:SER:O	2:B:173:ASN:HB3	1.91	0.70
3:C:49:ALA:O	3:C:309:THR:HG22	1.92	0.70
5:E:178:ILE:HG23	5:E:214:CYS:HA	1.72	0.70
7:G:50:ALA:H	7:G:64:GLN:HE22	1.38	0.70
15:O:356:GLU:HB2	17:Q:24:ILE:CD1	2.21	0.70
15:O:686:TYR:CD1	15:O:689:GLN:HG3	2.24	0.70
16:P:101:LYS:HE2	16:P:155:GLN:HE22	1.56	0.70
16:P:247:ILE:CD1	16:P:286:LEU:CD1	2.69	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:PRO:HD2	2:B:1180:PHE:CD1	2.26	0.70
2:B:290:ASP:HB3	2:B:577:PHE:CE1	2.27	0.70
2:B:439:ASN:ND2	2:B:441:LYS:HB3	2.05	0.70
2:B:626:ILE:HG23	2:B:642:LEU:HD21	1.72	0.70
15:O:310:TRP:CB	15:O:368:HIS:CE1	2.74	0.70
15:O:313:GLN:N	15:O:315:PHE:HE1	1.87	0.70
15:O:328:ARG:H	15:O:340:LYS:HB2	1.57	0.70
15:O:356:GLU:CA	17:Q:24:ILE:CD1	2.68	0.70
15:O:434:ARG:H	17:Q:144:VAL:CB	2.05	0.70
16:P:94:LYS:HB2	16:P:207:LEU:HB3	1.73	0.70
16:P:118:TRP:CZ3	16:P:189:LYS:CD	2.64	0.70
16:P:381:MET:HE1	16:P:385:PHE:HD2	1.55	0.70
16:P:479:LEU:HD23	16:P:479:LEU:O	1.92	0.70
17:Q:247:ILE:HD11	17:Q:248:LYS:HD2	1.73	0.70
17:Q:258:LEU:HD22	17:Q:265:SER:HB2	1.72	0.70
1:A:246:ASP:OD2	1:A:249:THR:OG1	2.05	0.70
2:B:307:GLU:O	2:B:311:ARG:HB2	1.92	0.70
2:B:1040:VAL:HA	2:B:1043:LYS:HG2	1.72	0.70
9:I:8:ILE:HG21	9:I:37:TYR:HE2	1.54	0.70
13:M:77:VAL:CG2	14:N:64:ILE:HG13	2.22	0.70
15:O:341:LEU:HD12	15:O:341:LEU:O	1.91	0.70
15:O:373:LEU:CB	15:O:375:PHE:HE1	2.05	0.70
15:O:600:GLU:OE1	16:P:269:TYR:CD1	2.45	0.70
15:O:735:GLU:O	15:O:738:LYS:CB	2.35	0.70
15:O:736:ILE:CG1	16:P:268:PHE:CZ	2.69	0.70
16:P:257:VAL:CG1	16:P:262:LEU:HA	2.21	0.70
16:P:493:ILE:HD12	16:P:493:ILE:N	2.07	0.70
17:Q:251:TRP:CD1	17:Q:298:GLN:OE1	2.45	0.70
1:A:109:ARG:CD	1:A:230:ARG:HB3	2.20	0.70
1:A:1200:MET:HG2	1:A:1573:TYR:CE2	2.26	0.70
2:B:751:ILE:HG13	2:B:770:ASN:OD1	1.92	0.70
2:B:815:ARG:NH2	2:B:818:GLY:HA2	2.06	0.70
15:O:313:GLN:O	15:O:315:PHE:CA	2.39	0.70
15:O:415:LEU:HD21	15:O:451:ILE:CD1	2.21	0.70
15:O:599:LYS:NZ	16:P:275:GLU:CD	2.50	0.70
15:O:769:GLN:O	15:O:772:ILE:HG23	1.91	0.70
16:P:100:ALA:C	16:P:211:TYR:CZ	2.70	0.70
16:P:370:SER:HG	16:P:373:GLU:CD	1.98	0.70
16:P:388:THR:O	16:P:389:GLN:HB2	1.91	0.70
1:A:596:HIS:HA	1:A:1191:GLN:NE2	2.07	0.69
1:A:1162:ASN:OD1	1:A:1165:LYS:N	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:632:SER:HB2	2:B:635:GLY:HA3	1.72	0.69
5:E:94:LYS:O	5:E:98:ILE:HG22	1.92	0.69
15:O:266:GLU:OE1	15:O:266:GLU:N	2.24	0.69
15:O:309:PRO:HD3	15:O:365:TRP:NE1	2.05	0.69
15:O:707:ASP:C	15:O:709:PRO:HD3	2.17	0.69
15:O:721:CYS:HA	15:O:724:LEU:CD2	2.20	0.69
15:O:722:TRP:O	15:O:726:SER:HB3	1.91	0.69
16:P:100:ALA:HA	16:P:211:TYR:OH	1.90	0.69
16:P:362:THR:HA	16:P:365:ASP:OD1	1.91	0.69
16:P:413:LEU:HD11	17:Q:273:TRP:HH2	1.16	0.69
1:A:39:ASP:OD1	1:A:40:ASN:N	2.24	0.69
1:A:729:LYS:CE	8:H:120:GLY:HA3	2.22	0.69
1:A:1661:PRO:HA	7:G:102:GLU:CG	2.16	0.69
2:B:328:GLN:NE2	13:M:108:LEU:HB2	2.07	0.69
2:B:565:LEU:HD13	2:B:593:ILE:HD11	1.74	0.69
2:B:815:ARG:HE	2:B:815:ARG:CA	2.05	0.69
9:I:42:PHE:CZ	9:I:43:SER:O	2.45	0.69
14:N:35:LEU:HD12	14:N:114:GLU:O	1.91	0.69
15:O:16:UNK:O	15:O:18:UNK:N	2.25	0.69
15:O:326:ILE:HB	15:O:344:ILE:HG23	1.75	0.69
15:O:470:SER:O	15:O:504:THR:HG22	1.93	0.69
15:O:534:VAL:HA	15:O:552:LEU:O	1.91	0.69
16:P:119:LEU:HD21	16:P:165:LEU:CD1	2.23	0.69
16:P:177:TYR:OH	16:P:226:LEU:CB	2.40	0.69
17:Q:361:ASP:O	17:Q:364:VAL:CG2	2.40	0.69
1:A:40:ASN:HB3	1:A:43:HIS:HD2	1.58	0.69
1:A:78:HIS:NE2	1:A:80:GLU:OE2	2.24	0.69
1:A:944:MET:O	1:A:985:ARG:NH1	2.24	0.69
2:B:742:TYR:CD2	2:B:1037:ARG:HB2	2.27	0.69
4:D:82:LEU:HD22	7:G:67:ASN:O	1.92	0.69
15:O:301:GLN:O	15:O:320:ILE:HG12	1.91	0.69
17:Q:355:THR:CB	17:Q:356:PRO:CD	2.37	0.69
17:Q:356:PRO:HD2	17:Q:357:PRO:N	2.05	0.69
1:A:63:SER:O	2:B:1155:ASP:HB3	1.91	0.69
1:A:1299:ASN:HB2	1:A:1466:SER:O	1.92	0.69
2:B:706:PHE:HE2	2:B:752:VAL:HG11	1.58	0.69
2:B:1117:VAL:HB	2:B:1153:ILE:CG2	2.21	0.69
3:C:116:VAL:CG2	3:C:125:LYS:HG3	2.23	0.69
5:E:177:ARG:NE	5:E:215:MET:OXT	2.22	0.69
7:G:237:HIS:N	7:G:244:SER:O	2.15	0.69
9:I:17:LEU:HD11	9:I:37:TYR:OH	1.83	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:669:PHE:HE1	15:O:738:LYS:CG	2.05	0.69
15:O:685:TYR:CD1	15:O:689:GLN:OE1	2.36	0.69
15:O:718:LEU:HD23	15:O:734:LYS:HD3	1.72	0.69
16:P:405:ASP:O	16:P:408:ILE:N	2.24	0.69
1:A:416:ARG:C	1:A:419:ILE:HG13	2.18	0.69
1:A:456:VAL:HG21	2:B:1184:TYR:HD2	1.58	0.69
1:A:721:LYS:CG	8:H:94:ASP:C	2.65	0.69
4:D:91:ARG:HG2	4:D:94:ARG:NH2	2.06	0.69
15:O:22:UNK:O	17:Q:314:TRP:CD2	2.45	0.69
15:O:378:SER:HB3	15:O:397:LYS:CG	2.21	0.69
15:O:421:ILE:CG1	17:Q:138:PHE:CE2	2.64	0.69
15:O:438:TRP:NE1	15:O:489:PHE:HB3	2.07	0.69
17:Q:154:LYS:C	17:Q:156:LYS:N	2.46	0.69
1:A:102:CYS:SG	1:A:238:MET:HB2	2.33	0.69
5:E:10:SER:O	5:E:14:ARG:HG3	1.91	0.69
15:O:275:GLU:HB3	15:O:285:MET:CG	2.22	0.69
15:O:529:GLU:N	15:O:529:GLU:OE1	2.24	0.69
16:P:195:ALA:CB	16:P:216:GLU:CG	2.69	0.69
17:Q:385:ASN:O	17:Q:389:ASN:O	2.10	0.69
1:A:99:ARG:HG2	1:A:243:PHE:HD2	1.56	0.69
1:A:790:LYS:CA	1:A:795:HIS:ND1	2.55	0.69
2:B:977:ILE:HD12	2:B:978:ALA:O	1.92	0.69
2:B:1115:GLN:CG	2:B:1124:SER:HB2	2.22	0.69
5:E:13:TRP:CZ3	5:E:39:LEU:HB2	2.27	0.69
8:H:8:ASP:N	8:H:57:VAL:O	2.15	0.69
15:O:273:ARG:CB	15:O:287:SER:OG	2.36	0.69
17:Q:136:LYS:HB3	17:Q:304:HIS:HD2	1.53	0.69
1:A:111:LYS:CG	1:A:114:GLU:HB2	2.22	0.69
1:A:245:LYS:HB3	1:A:251:ILE:CD1	2.22	0.69
1:A:262:THR:HA	1:A:265:ARG:CG	2.23	0.69
1:A:406:LEU:HG	1:A:407:GLN:H	1.58	0.69
1:A:535:GLN:OE1	1:A:543:LEU:HD21	1.93	0.69
1:A:925:MET:HG3	1:A:940:VAL:HG22	1.74	0.69
2:B:156:ARG:NH1	2:B:450:LEU:HD13	2.08	0.69
2:B:299:ASP:OD1	2:B:301:PHE:HB3	1.93	0.69
2:B:1002:LYS:HE2	14:N:166:LEU:HD12	1.75	0.69
3:C:86:PHE:O	12:L:62:LYS:HA	1.93	0.69
6:F:79:ARG:HB3	6:F:146:TRP:HZ2	1.58	0.69
7:G:53:TYR:CD1	7:G:60:GLY:HA2	2.28	0.69
9:I:30:CYS:HB3	9:I:33:CYS:O	1.92	0.69
12:L:31:CYS:HA	12:L:56:LEU:HD23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:98:SER:HB2	14:N:104:LEU:HD23	1.75	0.69
15:O:222:GLN:H	15:O:222:GLN:CD	2.00	0.69
15:O:352:PHE:CB	15:O:355:GLU:H	2.06	0.69
15:O:623:LEU:CD1	15:O:669:PHE:N	2.55	0.69
15:O:623:LEU:HD11	15:O:668:SER:C	2.18	0.69
15:O:663:LEU:HD11	15:O:742:TRP:CH2	2.27	0.69
15:O:665:ASN:O	15:O:666:SER:C	2.36	0.69
15:O:706:GLU:OE2	16:P:346:GLU:OE2	2.10	0.69
16:P:119:LEU:CD2	16:P:165:LEU:CD1	2.70	0.69
16:P:222:PHE:HZ	17:Q:206:ARG:CB	2.04	0.69
16:P:355:VAL:HA	16:P:366:TYR:CZ	2.28	0.69
17:Q:248:LYS:HZ2	17:Q:248:LYS:CB	2.06	0.69
17:Q:393:ILE:O	17:Q:395:LEU:CD2	2.40	0.69
1:A:721:LYS:CB	1:A:722:PRO:HD3	2.10	0.69
2:B:874:TYR:CE2	2:B:876:SER:HB3	2.27	0.69
8:H:3:ASN:N	8:H:61:SER:HG	1.91	0.69
9:I:11:LEU:HD11	13:M:31:ARG:CD	2.22	0.69
15:O:178:VAL:O	15:O:243:LYS:HE2	1.93	0.69
15:O:202:ILE:HG22	15:O:216:ILE:HG23	1.74	0.69
15:O:275:GLU:N	15:O:285:MET:O	2.26	0.69
15:O:400:SER:HA	15:O:419:ARG:HH21	1.57	0.69
15:O:433:VAL:C	17:Q:144:VAL:HG11	2.18	0.69
16:P:177:TYR:CZ	16:P:226:LEU:CD1	2.62	0.69
16:P:490:ASP:C	16:P:491:PHE:CD1	2.71	0.69
17:Q:140:ILE:HG22	17:Q:142:ARG:CD	2.23	0.69
1:A:721:LYS:HG3	8:H:94:ASP:C	2.16	0.69
3:C:91:VAL:HG13	3:C:200:GLN:NE2	2.08	0.69
5:E:83:CYS:N	5:E:111:VAL:O	2.21	0.69
7:G:98:GLU:N	7:G:98:GLU:CD	2.46	0.69
16:P:247:ILE:HD11	16:P:286:LEU:HD13	1.75	0.69
16:P:263:PRO:O	16:P:265:GLU:N	2.25	0.69
16:P:284:LEU:HD13	16:P:302:ALA:HB2	1.63	0.69
16:P:294:HIS:O	16:P:295:THR:OG1	2.11	0.69
17:Q:388:LYS:CE	17:Q:392:LEU:O	2.41	0.69
19:S:3:DA:H61	20:T:52:DT:H3	1.41	0.69
1:A:772:LYS:HG3	1:A:777:LEU:HD12	1.76	0.68
1:A:1056:ASP:HB3	1:A:1059:LYS:HG2	1.74	0.68
1:A:1098:SER:O	1:A:1102:LEU:HB3	1.93	0.68
3:C:89:THR:HB	10:J:66:LEU:HD11	1.74	0.68
3:C:255:VAL:HG22	3:C:272:LYS:HB2	1.75	0.68
5:E:37:LEU:HD11	5:E:41:ASP:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:3:ASN:O	8:H:61:SER:N	2.18	0.68
15:O:434:ARG:H	17:Q:144:VAL:HG21	1.56	0.68
16:P:294:HIS:HA	20:T:48:DA:H62	1.46	0.68
9:I:23:VAL:HG12	9:I:28:VAL:HG22	1.75	0.68
15:O:290:GLU:HB3	15:O:338:LYS:O	1.93	0.68
15:O:350:THR:OG1	15:O:352:PHE:CE1	2.46	0.68
15:O:438:TRP:CH2	15:O:491:SER:HB2	2.25	0.68
15:O:686:TYR:HD1	15:O:689:GLN:CG	2.04	0.68
15:O:725:VAL:HG11	16:P:449:GLN:CD	2.18	0.68
16:P:115:GLN:OE1	16:P:161:THR:HG21	1.93	0.68
16:P:239:PHE:HD2	16:P:243:PHE:CE2	2.11	0.68
16:P:344:THR:OG1	16:P:438:PHE:CA	2.40	0.68
17:Q:133:LYS:CB	17:Q:286:GLN:HG2	2.23	0.68
17:Q:264:SER:C	17:Q:265:SER:OG	2.36	0.68
17:Q:267:GLY:O	17:Q:271:LEU:N	2.25	0.68
1:A:460:LEU:CD2	2:B:1178:ILE:CD1	2.71	0.68
1:A:557:LEU:HA	1:A:560:GLN:HB2	1.74	0.68
1:A:1599:ASN:OD1	1:A:1601:GLN:N	2.26	0.68
2:B:250:LEU:HD21	2:B:260:PHE:HD1	1.58	0.68
5:E:55:ARG:HB3	5:E:82:PHE:CB	2.23	0.68
7:G:169:VAL:HG23	7:G:216:HIS:C	2.17	0.68
15:O:215:ASN:N	15:O:236:ILE:CG1	2.41	0.68
15:O:433:VAL:CG1	17:Q:144:VAL:CG1	2.54	0.68
15:O:718:LEU:HD23	15:O:734:LYS:CD	2.23	0.68
15:O:740:ILE:C	15:O:744:LEU:HD11	2.18	0.68
16:P:104:PHE:CD1	16:P:212:VAL:N	2.60	0.68
17:Q:283:ARG:C	17:Q:302:ARG:HB2	2.18	0.68
1:A:109:ARG:HD3	1:A:230:ARG:CB	2.23	0.68
2:B:205:MET:O	2:B:206:LEU:HD12	1.93	0.68
2:B:627:GLY:O	2:B:640:LEU:HD12	1.93	0.68
2:B:1178:ILE:O	2:B:1181:VAL:HG22	1.93	0.68
7:G:87:LEU:HD11	7:G:118:CYS:HB3	1.76	0.68
15:O:260:LEU:HD21	15:O:273:ARG:C	2.09	0.68
15:O:260:LEU:HD21	15:O:273:ARG:O	1.89	0.68
15:O:299:ASP:OD1	17:Q:159:TYR:HD2	1.76	0.68
15:O:585:GLU:O	15:O:588:SER:N	2.26	0.68
15:O:718:LEU:HD23	15:O:734:LYS:HE2	1.74	0.68
16:P:207:LEU:N	16:P:208:PRO:CD	2.53	0.68
1:A:86:TYR:CZ	1:A:317:SER:HB3	2.29	0.68
2:B:71:LYS:HE2	2:B:421:LEU:HB2	1.76	0.68
2:B:792:SER:HB2	2:B:933:THR:OG1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:854:GLU:HG3	2:B:875:HIS:HA	1.74	0.68
2:B:1099:THR:HG22	2:B:1171:ASN:O	1.93	0.68
7:G:167:THR:CG2	7:G:218:VAL:HB	2.23	0.68
8:H:56:THR:HG21	8:H:145:ARG:NH2	2.08	0.68
9:I:30:CYS:HB3	9:I:33:CYS:C	2.18	0.68
10:J:9:SER:HB2	10:J:45:CYS:HB2	1.74	0.68
15:O:750:PRO:C	15:O:752:LEU:H	2.01	0.68
16:P:119:LEU:HD21	16:P:165:LEU:HD11	1.75	0.68
17:Q:355:THR:HA	17:Q:359:MET:CG	2.19	0.68
1:A:1459:LYS:HD2	1:A:1473:LYS:HD2	1.74	0.68
3:C:248:GLN:OE1	3:C:258:ILE:HG13	1.93	0.68
10:J:44:TYR:HA	10:J:47:ARG:HB2	1.75	0.68
13:M:12:ILE:CG2	13:M:88:ILE:HD11	2.23	0.68
15:O:431:ASP:HB2	15:O:432:PRO:CD	2.23	0.68
15:O:585:GLU:O	15:O:586:LYS:C	2.37	0.68
15:O:659:LEU:O	15:O:742:TRP:CZ2	2.46	0.68
1:A:216:ARG:NE	1:A:341:SER:HA	2.08	0.68
1:A:475:ARG:HB2	2:B:1059:PRO:HB2	1.75	0.68
2:B:335:ARG:HG2	2:B:341:SER:HG	1.55	0.68
3:C:179:PHE:HB3	3:C:183:PRO:HA	1.76	0.68
15:O:220:THR:N	15:O:228:ASN:O	2.26	0.68
15:O:262:GLY:HA2	15:O:271:ILE:HA	1.74	0.68
15:O:400:SER:OG	17:Q:139:GLU:OE1	2.12	0.68
15:O:538:LEU:HD12	15:O:538:LEU:O	1.94	0.68
16:P:332:LEU:HD12	16:P:332:LEU:C	2.18	0.68
17:Q:298:GLN:O	17:Q:299:THR:CB	2.42	0.68
1:A:372:LYS:CD	1:A:377:VAL:HG22	2.23	0.68
1:A:1039:ARG:HD3	1:A:1043:GLY:O	1.94	0.68
1:A:1640:ARG:CG	1:A:1645:LYS:HB2	2.24	0.68
2:B:1003:ALA:O	14:N:168:LEU:HD12	1.93	0.68
4:D:43:PHE:O	4:D:47:LYS:HG2	1.92	0.68
13:M:15:VAL:HG22	13:M:90:LEU:CD1	2.23	0.68
15:O:314:GLN:HG2	15:O:329:ILE:HD11	1.59	0.68
15:O:347:LEU:HD11	15:O:390:GLN:NE2	2.09	0.68
15:O:703:PHE:CZ	16:P:254:LEU:HD21	2.29	0.68
16:P:184:TRP:NE1	16:P:190:MET:CB	2.40	0.68
16:P:206:GLN:O	16:P:207:LEU:C	2.37	0.68
17:Q:247:ILE:HG23	17:Q:278:TYR:HE2	1.46	0.68
1:A:921:PRO:HG2	8:H:19:ARG:HG3	1.70	0.68
1:A:1272:VAL:O	9:I:49:THR:N	2.27	0.68
2:B:73:ILE:HB	2:B:425:ILE:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:613:VAL:HG21	2:B:655:TYR:CD2	2.28	0.68
2:B:815:ARG:HE	2:B:815:ARG:HA	1.58	0.68
2:B:1127:CYS:HA	2:B:1163:GLN:O	1.94	0.68
4:D:85:SER:HB3	7:G:71:MET:CG	2.23	0.68
7:G:45:LEU:HD13	7:G:47:VAL:CG1	2.21	0.68
7:G:97:LYS:NZ	7:G:98:GLU:C	2.51	0.68
7:G:137:ILE:CA	7:G:147:LEU:HD23	2.24	0.68
7:G:138:PHE:CD2	7:G:139:ILE:HG23	2.29	0.68
8:H:101:ALA:HB2	8:H:116:TYR:CE1	2.29	0.68
15:O:173:PHE:O	17:Q:198:LEU:HD11	1.94	0.68
15:O:232:ASN:HD21	15:O:283:ASP:HA	1.59	0.68
15:O:669:PHE:CE1	15:O:738:LYS:CG	2.76	0.68
16:P:115:GLN:NE2	16:P:190:MET:SD	2.67	0.68
16:P:183:LYS:HD2	16:P:189:LYS:HD2	1.75	0.68
16:P:354:LYS:HG2	16:P:362:THR:CB	2.24	0.68
17:Q:274:MET:C	17:Q:277:ILE:CG2	2.60	0.68
17:Q:388:LYS:HE3	17:Q:393:ILE:HA	1.76	0.68
1:A:460:LEU:CD2	2:B:1178:ILE:HD11	2.23	0.68
1:A:1270:VAL:HB	9:I:51:THR:HB	1.75	0.68
2:B:854:GLU:CG	2:B:876:SER:H	2.05	0.68
2:B:1153:ILE:HD12	2:B:1159:TRP:HE1	1.59	0.68
4:D:19:PRO:HG2	4:D:22:ILE:HD11	1.74	0.68
5:E:71:LYS:HG3	5:E:72:PHE:CD2	2.29	0.68
6:F:86:THR:HG23	6:F:89:GLU:CD	2.19	0.68
7:G:125:TRP:CZ3	7:G:127:PRO:HG3	2.29	0.68
15:O:22:UNK:O	17:Q:314:TRP:CE2	2.47	0.68
15:O:205:TYR:CD2	15:O:215:ASN:HB3	2.29	0.68
15:O:352:PHE:CD2	15:O:355:GLU:OE1	2.47	0.68
16:P:227:TYR:CE1	16:P:304:LEU:HD11	2.29	0.68
17:Q:133:LYS:HB3	17:Q:134:PRO:HD2	1.75	0.68
1:A:109:ARG:CD	1:A:230:ARG:CB	2.72	0.67
1:A:124:LEU:CD1	1:A:133:SER:HA	2.24	0.67
1:A:1292:ILE:HD12	1:A:1472:PHE:HE2	1.58	0.67
2:B:618:PRO:HB3	17:Q:397:ARG:HE	1.59	0.67
2:B:813:LEU:CD1	2:B:813:LEU:H	2.07	0.67
2:B:1000:LEU:HD11	2:B:1005:TYR:HB2	1.74	0.67
6:F:144:GLU:HB3	6:F:146:TRP:HE1	1.59	0.67
7:G:26:ASN:OD1	7:G:37:CYS:HA	1.94	0.67
9:I:9:PHE:HA	9:I:16:LEU:HA	1.76	0.67
14:N:70:LEU:CG	14:N:72:VAL:HG13	2.21	0.67
15:O:419:ARG:NH1	15:O:420:GLU:OE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:315:ASN:O	16:P:319:SER:N	2.27	0.67
16:P:344:THR:CA	16:P:436:LEU:O	2.42	0.67
16:P:494:SER:CB	16:P:497:GLN:CG	2.71	0.67
16:P:494:SER:HG	16:P:497:GLN:N	1.91	0.67
17:Q:175:ILE:HB	17:Q:176:PRO:CD	2.24	0.67
17:Q:175:ILE:HB	17:Q:176:PRO:HD3	1.76	0.67
1:A:76:GLN:OE1	2:B:1111:LEU:HD21	1.94	0.67
1:A:600:MET:CE	2:B:1079:LEU:HD11	2.24	0.67
2:B:317:TYR:HB3	2:B:320:LEU:HD12	1.76	0.67
2:B:677:THR:O	2:B:680:GLU:HG3	1.94	0.67
2:B:896:GLN:HB3	12:L:45:ALA:HA	1.76	0.67
5:E:88:VAL:HG12	5:E:93:MET:HB2	1.74	0.67
5:E:172:GLU:HB3	5:E:213:ILE:HD11	1.76	0.67
13:M:88:ILE:HD12	13:M:90:LEU:HD21	1.75	0.67
13:M:89:GLN:HE22	14:N:39:PRO:HD2	1.58	0.67
15:O:292:LEU:HD12	15:O:292:LEU:H	1.57	0.67
15:O:313:GLN:CA	15:O:315:PHE:CE1	2.76	0.67
15:O:350:THR:O	15:O:352:PHE:CD1	2.47	0.67
15:O:354:PRO:O	15:O:355:GLU:C	2.37	0.67
15:O:415:LEU:CD2	15:O:451:ILE:HD13	2.23	0.67
16:P:157:HIS:CD2	16:P:229:LYS:HE2	2.30	0.67
16:P:172:LEU:HD23	16:P:172:LEU:C	2.20	0.67
17:Q:133:LYS:CG	17:Q:286:GLN:HB3	2.18	0.67
1:A:365:THR:HG22	1:A:369:LEU:CD2	2.21	0.67
1:A:461:GLU:OE2	1:A:1618:THR:CB	2.38	0.67
1:A:912:VAL:C	1:A:914:ASP:H	2.00	0.67
1:A:1049:MET:HB2	1:A:1052:GLY:HA2	1.75	0.67
1:A:1070:LEU:HD23	1:A:1154:LEU:CD2	2.24	0.67
1:A:1261:VAL:HB	1:A:1498:ILE:HB	1.75	0.67
1:A:1451:ILE:HG12	1:A:1457:ILE:HG23	1.75	0.67
2:B:575:HIS:CE1	13:M:95:VAL:HB	2.30	0.67
2:B:827:PHE:HD2	2:B:869:THR:HG21	1.59	0.67
3:C:172:GLN:HB2	3:C:175:GLN:NE2	2.09	0.67
3:C:172:GLN:HB2	3:C:175:GLN:HE22	1.57	0.67
5:E:6:GLU:OE2	5:E:43:LYS:HD2	1.94	0.67
9:I:13:CYS:HB3	9:I:33:CYS:HB3	1.74	0.67
13:M:17:ASP:O	13:M:92:LYS:HD3	1.95	0.67
15:O:305:PHE:HA	15:O:317:ILE:O	1.93	0.67
15:O:357:LEU:CB	15:O:377:ARG:NE	2.53	0.67
16:P:125:PHE:HD2	16:P:129:PHE:HB2	1.56	0.67
16:P:150:GLU:N	16:P:150:GLU:OE1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:207:LEU:O	16:P:209:ASN:CA	2.42	0.67
17:Q:248:LYS:HA	17:Q:298:GLN:HE22	1.58	0.67
1:A:1104:TYR:CD1	1:A:1119:LYS:NZ	2.63	0.67
1:A:1114:TYR:O	1:A:1116:GLN:NE2	2.28	0.67
2:B:194:PHE:CD2	2:B:465:LEU:HD21	2.29	0.67
5:E:14:ARG:NH1	5:E:141:VAL:O	2.27	0.67
5:E:72:PHE:CE1	5:E:157:SER:HA	2.29	0.67
10:J:30:LEU:HD23	10:J:35:ALA:N	2.10	0.67
15:O:299:ASP:HB2	17:Q:159:TYR:HB2	0.86	0.67
15:O:635:ASN:ND2	15:O:685:TYR:CE1	2.62	0.67
15:O:692:THR:O	15:O:693:PHE:HB3	1.93	0.67
16:P:207:LEU:C	16:P:209:ASN:N	2.21	0.67
16:P:484:ALA:O	16:P:488:LEU:HB3	1.92	0.67
1:A:223:PHE:O	1:A:227:LEU:HD13	1.94	0.67
1:A:392:THR:CG2	1:A:430:ILE:HB	2.25	0.67
2:B:843:ASP:O	12:L:42:ARG:NH2	2.27	0.67
2:B:895:PHE:CE1	2:B:899:GLN:HB2	2.30	0.67
10:J:21:TYR:CE2	10:J:25:LEU:HD11	2.30	0.67
15:O:188:GLN:CA	15:O:199:GLY:CA	2.67	0.67
15:O:194:ARG:HB3	15:O:194:ARG:CZ	2.25	0.67
15:O:226:HIS:O	15:O:227:LEU:C	2.37	0.67
15:O:380:MET:SD	15:O:416:LEU:HD22	2.35	0.67
15:O:648:SER:C	15:O:650:LEU:N	2.49	0.67
15:O:650:LEU:HG	15:O:756:ILE:CG2	2.24	0.67
15:O:693:PHE:HB3	15:O:746:ARG:O	1.95	0.67
16:P:125:PHE:HE2	16:P:129:PHE:CE2	2.01	0.67
16:P:157:HIS:HD1	16:P:159:THR:HB	1.52	0.67
16:P:227:TYR:HD2	16:P:301:HIS:NE2	1.90	0.67
16:P:246:GLU:HG2	16:P:286:LEU:CB	2.24	0.67
16:P:328:LEU:HD13	16:P:472:ARG:HB3	1.76	0.67
1:A:1161:VAL:HG12	1:A:1166:PHE:HB2	1.76	0.67
2:B:1014:TYR:CD1	2:B:1021:GLU:HA	2.28	0.67
2:B:1131:CYS:HB2	2:B:1163:GLN:HA	1.76	0.67
4:D:24:ALA:HA	7:G:43:ILE:CA	2.14	0.67
4:D:91:ARG:HB3	7:G:151:ASP:OD2	1.95	0.67
15:O:314:GLN:CG	15:O:329:ILE:HD12	2.12	0.67
15:O:339:ARG:HG3	15:O:340:LYS:N	2.09	0.67
15:O:350:THR:CG2	17:Q:153:ASN:CB	2.72	0.67
15:O:656:HIS:CG	15:O:747:LEU:CA	2.78	0.67
15:O:727:PRO:CG	16:P:265:GLU:OE1	2.41	0.67
16:P:239:PHE:CE2	16:P:243:PHE:CG	2.83	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:416:ILE:O	16:P:418:PRO:HD2	1.94	0.67
17:Q:363:GLU:O	17:Q:367:ILE:N	2.24	0.67
1:A:833:LEU:CA	1:A:944:MET:HE2	2.24	0.67
2:B:117:VAL:HG21	17:Q:276:GLN:CB	2.24	0.67
2:B:817:ARG:O	2:B:819:ASP:N	2.27	0.67
2:B:1118:PRO:HB3	2:B:1124:SER:N	2.09	0.67
13:M:43:LYS:HD2	14:N:29:PHE:CE1	2.30	0.67
14:N:52:GLN:HG2	14:N:134:ASP:OD2	1.95	0.67
15:O:456:VAL:HB	15:O:463:LEU:HD12	1.77	0.67
15:O:721:CYS:CA	15:O:724:LEU:CD2	2.72	0.67
15:O:722:TRP:HZ3	16:P:262:LEU:C	2.03	0.67
16:P:158:MET:HE1	16:P:219:ILE:CG2	2.24	0.67
17:Q:365:TRP:HA	17:Q:365:TRP:CE3	2.29	0.67
1:A:741:PRO:HB2	1:A:743:ASP:OD1	1.94	0.67
1:A:1092:GLU:O	1:A:1096:LYS:N	2.26	0.67
2:B:1193:GLY:O	2:B:1194:ILE:O	2.12	0.67
9:I:28:VAL:N	9:I:37:TYR:CB	2.58	0.67
15:O:435:ARG:HG3	15:O:435:ARG:O	1.93	0.67
15:O:736:ILE:CB	16:P:268:PHE:HZ	2.00	0.67
16:P:123:MET:CB	16:P:125:PHE:CD1	2.78	0.67
16:P:146:ASP:O	16:P:148:PRO:HD2	1.94	0.67
16:P:222:PHE:C	16:P:223:ASN:CG	2.62	0.67
16:P:257:VAL:HG11	16:P:263:PRO:HD2	1.71	0.67
16:P:378:LEU:HD11	17:Q:234:LYS:CA	2.24	0.67
1:A:223:PHE:CE1	1:A:227:LEU:HD11	2.30	0.67
1:A:1112:PRO:CB	1:A:1114:TYR:CE1	2.69	0.67
1:A:1647:ASN:HD21	1:A:1649:VAL:HB	1.59	0.67
2:B:104:ILE:HG12	2:B:137:LEU:HD13	1.77	0.67
11:K:74:ASN:OD1	11:K:77:ARG:HD3	1.94	0.67
15:O:60:UNK:O	15:O:226:HIS:CE1	2.47	0.67
15:O:214:LEU:C	15:O:236:ILE:HG12	2.15	0.67
15:O:482:SER:OG	15:O:490:GLN:HB2	1.95	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:460:LEU:CB	1:A:466:LEU:HB3	2.25	0.67
1:A:725:LEU:HD12	8:H:46:LEU:HD21	1.76	0.67
3:C:143:ASN:ND2	3:C:157:TYR:O	2.27	0.67
5:E:101:GLN:OE1	5:E:129:PRO:HG3	1.94	0.67
7:G:131:ASP:O	7:G:233:VAL:HG23	1.95	0.67
7:G:163:PRO:HG3	7:G:250:ILE:HG22	1.76	0.67
15:O:356:GLU:HG2	15:O:377:ARG:HH22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:451:ILE:HG13	15:O:467:PHE:O	1.95	0.67
15:O:780:ILE:N	16:P:199:LEU:HD21	2.10	0.67
16:P:378:LEU:HD11	17:Q:234:LYS:HB3	1.77	0.67
17:Q:230:SER:O	17:Q:233:TYR:CZ	2.48	0.67
1:A:67:LEU:O	1:A:72:CYS:HB2	1.95	0.66
1:A:334:VAL:O	1:A:338:VAL:HG23	1.94	0.66
1:A:597:LYS:O	2:B:1082:HIS:NE2	2.28	0.66
1:A:1148:LEU:HB3	1:A:1163:GLU:CG	2.23	0.66
3:C:152:ASP:O	3:C:153:PRO:C	2.30	0.66
5:E:78:LEU:HD23	5:E:79:TRP:N	2.10	0.66
9:I:34:LYS:HG3	13:M:59:ARG:HD3	1.75	0.66
14:N:26:PRO:O	14:N:27:ASP:C	2.38	0.66
15:O:768:TYR:O	15:O:772:ILE:HG22	1.96	0.66
15:O:772:ILE:HD12	16:P:138:LEU:HD21	1.66	0.66
1:A:248:PHE:CE2	1:A:442:LYS:HE3	2.30	0.66
1:A:475:ARG:CB	2:B:1059:PRO:HB2	2.24	0.66
2:B:1153:ILE:HD12	2:B:1159:TRP:CD1	2.30	0.66
5:E:4:GLU:O	5:E:8:ASN:ND2	2.28	0.66
5:E:10:SER:HA	5:E:39:LEU:HD13	1.76	0.66
9:I:8:ILE:N	9:I:16:LEU:HD11	2.11	0.66
15:O:326:ILE:H	15:O:344:ILE:HD13	1.61	0.66
15:O:702:LEU:O	15:O:704:LEU:HG	1.94	0.66
16:P:363:SER:CA	16:P:366:TYR:HD2	2.02	0.66
17:Q:354:LEU:HD11	17:Q:359:MET:C	2.20	0.66
17:Q:365:TRP:CD1	17:Q:417:ILE:HG13	2.31	0.66
1:A:57:PHE:CD2	1:A:58:LEU:HG	2.31	0.66
1:A:717:PRO:HB3	1:A:726:TRP:CH2	2.31	0.66
2:B:679:GLN:N	2:B:679:GLN:OE1	2.28	0.66
2:B:1021:GLU:OE1	3:C:293:ARG:NH1	2.28	0.66
3:C:147:PRO:HD2	3:C:148:LYS:HZ3	1.60	0.66
3:C:256:ILE:HD13	3:C:267:VAL:HG22	1.78	0.66
15:O:302:VAL:O	15:O:303:VAL:HB	1.96	0.66
15:O:374:VAL:O	15:O:375:PHE:CG	2.49	0.66
16:P:239:PHE:O	16:P:243:PHE:N	2.29	0.66
17:Q:21:TYR:CD2	17:Q:124:GLU:CB	2.78	0.66
17:Q:360:GLU:O	17:Q:361:ASP:CB	2.40	0.66
1:A:489:ASN:HB2	11:K:95:HIS:CD2	2.30	0.66
1:A:591:ARG:HB3	1:A:593:PRO:HD2	1.78	0.66
2:B:21:ARG:HH12	10:J:54:VAL:HA	1.60	0.66
2:B:114:SER:O	2:B:116:ALA:N	2.28	0.66
2:B:526:GLY:HA3	2:B:651:ARG:NE	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:800:TYR:OH	2:B:908:ARG:HB2	1.95	0.66
7:G:163:PRO:HD2	7:G:166:TRP:NE1	2.10	0.66
9:I:12:ASP:OD2	13:M:59:ARG:NH2	2.28	0.66
15:O:189:THR:HG21	15:O:259:ASN:ND2	2.09	0.66
15:O:353:ASP:OD1	17:Q:31:PHE:HD2	1.77	0.66
15:O:396:ALA:CB	17:Q:140:ILE:HD12	2.25	0.66
15:O:421:ILE:HG22	15:O:439:LYS:CG	2.24	0.66
15:O:529:GLU:HG2	15:O:530:ASN:H	1.61	0.66
15:O:669:PHE:O	15:O:671:SER:N	2.24	0.66
16:P:158:MET:CB	16:P:192:TYR:OH	2.43	0.66
16:P:200:PRO:HB2	16:P:203:TRP:H	1.61	0.66
16:P:246:GLU:HG3	16:P:286:LEU:HB3	1.76	0.66
17:Q:383:PHE:HZ	17:Q:398:ASP:OD1	1.77	0.66
1:A:591:ARG:HH21	1:A:631:ASP:CB	2.08	0.66
2:B:1107:CYS:CA	2:B:1130:ARG:HH21	2.07	0.66
5:E:127:ILE:HB	5:E:129:PRO:HG2	1.76	0.66
14:N:35:LEU:HG	14:N:115:SER:HA	1.78	0.66
15:O:294:PHE:CE2	15:O:300:LEU:CA	2.67	0.66
15:O:395:GLN:NE2	15:O:397:LYS:HA	2.10	0.66
15:O:568:ILE:HG22	15:O:570:ASP:N	2.11	0.66
15:O:725:VAL:CG1	16:P:449:GLN:HG2	2.02	0.66
16:P:102:LEU:O	16:P:105:LEU:HB3	1.95	0.66
16:P:119:LEU:HD13	16:P:165:LEU:CD1	2.20	0.66
16:P:334:LEU:CD2	16:P:449:GLN:OE1	2.42	0.66
16:P:494:SER:OG	16:P:497:GLN:HG2	1.92	0.66
17:Q:140:ILE:HG22	17:Q:142:ARG:HD3	1.77	0.66
17:Q:386:ASP:O	17:Q:390:ASN:HA	1.95	0.66
1:A:114:GLU:OE2	1:A:117:ARG:NH2	2.28	0.66
1:A:489:ASN:ND2	2:B:781:TYR:OH	2.27	0.66
1:A:723:TYR:O	1:A:724:PRO:C	2.35	0.66
1:A:956:ARG:HG2	1:A:957:VAL:H	1.61	0.66
2:B:290:ASP:HB3	2:B:577:PHE:CZ	2.31	0.66
2:B:363:GLY:O	2:B:370:LYS:HE3	1.96	0.66
2:B:1116:SER:HB2	2:B:1152:PHE:HB3	1.77	0.66
3:C:169:PHE:CE2	3:C:171:PRO:HB3	2.30	0.66
5:E:112:TYR:OH	5:E:136:ASN:HB2	1.94	0.66
5:E:127:ILE:O	5:E:129:PRO:N	2.28	0.66
15:O:275:GLU:O	15:O:285:MET:N	2.29	0.66
15:O:372:ILE:O	15:O:373:LEU:HD23	1.95	0.66
15:O:689:GLN:O	15:O:690:ASP:CG	2.38	0.66
16:P:211:TYR:CD1	16:P:212:VAL:HG23	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:211:TYR:HA	16:P:214:ILE:HG22	1.76	0.66
16:P:227:TYR:CE2	16:P:301:HIS:ND1	2.63	0.66
16:P:271:LYS:HA	16:P:274:ILE:HD12	1.78	0.66
17:Q:294:VAL:H	17:Q:295:PRO:HD3	1.58	0.66
19:S:23:DG:O6	20:T:31:DC:N4	2.29	0.66
19:S:24:DG:N2	20:T:31:DC:O2	2.20	0.66
1:A:31:GLN:HA	1:A:78:HIS:O	1.95	0.66
1:A:396:ILE:CD1	1:A:430:ILE:HG21	2.26	0.66
1:A:1090:ASP:HB3	1:A:1132:TYR:CD1	2.30	0.66
2:B:122:TYR:HE2	2:B:175:MET:HE1	1.61	0.66
2:B:186:GLU:OE1	2:B:731:VAL:HG22	1.96	0.66
7:G:242:VAL:CG2	7:G:243:VAL:N	2.51	0.66
15:O:589:ILE:CG2	16:P:316:TRP:CE3	2.74	0.66
15:O:722:TRP:CZ3	16:P:262:LEU:C	2.73	0.66
16:P:195:ALA:N	16:P:216:GLU:HB3	2.10	0.66
16:P:358:PRO:HB3	17:Q:206:ARG:NH2	2.11	0.66
17:Q:248:LYS:CA	17:Q:298:GLN:HE22	2.08	0.66
1:A:68:ASP:OD2	1:A:70:LYS:NZ	2.28	0.66
1:A:830:MET:HE1	2:B:963:PHE:HB3	1.78	0.66
1:A:1035:ASP:OD2	1:A:1039:ARG:NH1	2.25	0.66
2:B:91:LEU:HD12	2:B:94:LYS:N	2.11	0.66
15:O:410:ASP:O	15:O:411:LYS:HB2	1.96	0.66
15:O:736:ILE:HB	16:P:268:PHE:CE1	2.29	0.66
15:O:780:ILE:O	16:P:199:LEU:CD2	2.43	0.66
16:P:222:PHE:CE1	17:Q:206:ARG:CZ	2.79	0.66
16:P:330:TRP:CZ3	16:P:334:LEU:HD11	2.29	0.66
16:P:338:LEU:O	16:P:339:THR:C	2.39	0.66
16:P:431:ASP:O	16:P:434:HIS:C	2.39	0.66
1:A:76:GLN:HG3	1:A:362:VAL:C	2.21	0.66
1:A:466:LEU:HD23	1:A:471:MET:HG3	1.77	0.66
1:A:688:THR:HG22	1:A:723:TYR:HE2	1.59	0.66
2:B:131:THR:HA	2:B:197:ASN:HA	1.78	0.66
2:B:162:PRO:O	2:B:409:TYR:OH	2.12	0.66
2:B:164:MET:CB	2:B:194:PHE:HE1	2.09	0.66
3:C:148:LYS:CE	3:C:151:THR:HG23	2.26	0.66
5:E:127:ILE:CD1	5:E:132:ILE:HD11	2.23	0.66
15:O:54:UNK:HA	15:O:554:ASN:CG	2.20	0.66
15:O:367:SER:O	15:O:368:HIS:HB3	1.95	0.66
15:O:374:VAL:C	15:O:375:PHE:CG	2.74	0.66
15:O:703:PHE:CZ	16:P:254:LEU:HD23	2.31	0.66
15:O:749:LYS:N	15:O:750:PRO:HD3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:780:ILE:O	16:P:199:LEU:HD22	1.96	0.66
16:P:132:VAL:CG1	16:P:171:HIS:ND1	2.59	0.66
16:P:234:CYS:O	16:P:238:HIS:N	2.29	0.66
17:Q:277:ILE:O	17:Q:277:ILE:HD12	1.95	0.66
17:Q:361:ASP:CG	17:Q:362:ALA:N	2.53	0.66
1:A:403:LEU:HA	1:A:406:LEU:HB3	1.78	0.66
1:A:416:ARG:HA	1:A:419:ILE:CG1	2.25	0.66
1:A:509:GLU:OE1	1:A:579:ARG:NE	2.21	0.66
1:A:557:LEU:O	1:A:561:LEU:HG	1.96	0.66
1:A:1115:LYS:CA	5:E:152:LYS:HZ1	2.09	0.66
2:B:307:GLU:OE1	9:I:6:SER:HB3	1.96	0.66
2:B:439:ASN:HD21	2:B:441:LYS:HB3	1.61	0.66
2:B:678:PRO:HA	2:B:681:ILE:CD1	2.26	0.66
5:E:94:LYS:HB2	5:E:123:LEU:HD13	1.76	0.66
11:K:49:LEU:HD11	11:K:54:THR:OG1	1.96	0.66
11:K:77:ARG:HD2	11:K:91:TYR:CE2	2.31	0.66
15:O:222:GLN:HE22	15:O:227:LEU:CA	2.08	0.66
15:O:428:GLU:CB	15:O:433:VAL:HG23	2.24	0.66
1:A:55:GLY:HA2	1:A:62:CYS:SG	2.35	0.65
1:A:912:VAL:CB	1:A:913:PRO:CD	2.41	0.65
1:A:1133:LEU:HD11	1:A:1171:GLN:C	2.20	0.65
1:A:1509:HIS:ND1	1:A:1519:LEU:HD21	2.11	0.65
2:B:1000:LEU:HD23	2:B:1006:ASN:O	1.97	0.65
6:F:73:ALA:HB1	7:G:95:LEU:CD2	2.26	0.65
7:G:137:ILE:N	7:G:147:LEU:HD23	2.11	0.65
9:I:36:ILE:HD13	9:I:36:ILE:N	2.09	0.65
15:O:568:ILE:HG21	15:O:570:ASP:CB	2.21	0.65
15:O:689:GLN:O	15:O:690:ASP:CB	2.44	0.65
16:P:177:TYR:HE1	16:P:226:LEU:CD2	2.02	0.65
17:Q:277:ILE:CG1	17:Q:278:TYR:CZ	2.77	0.65
17:Q:390:ASN:O	17:Q:391:ASP:C	2.39	0.65
1:A:246:ASP:CG	1:A:250:LYS:H	2.04	0.65
1:A:665:PRO:CD	1:A:790:LYS:CA	2.71	0.65
1:A:913:PRO:HB3	1:A:926:GLN:NE2	2.11	0.65
2:B:939:SER:HA	2:B:1013:MET:HG2	1.78	0.65
3:C:115:TRP:CZ3	3:C:211:GLY:HA2	2.32	0.65
5:E:47:CYS:HA	5:E:52:ARG:O	1.96	0.65
8:H:43:ASN:OD1	8:H:45:GLU:HB3	1.96	0.65
9:I:26:SER:C	9:I:38:PRO:C	2.65	0.65
14:N:41:ASN:HA	14:N:44:ASN:CB	2.25	0.65
15:O:264:ILE:HG13	15:O:305:PHE:HE2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:302:VAL:O	15:O:320:ILE:HG13	1.97	0.65
15:O:347:LEU:HD21	17:Q:152:ILE:HG12	1.75	0.65
15:O:381:ILE:HG23	15:O:391:THR:O	1.95	0.65
16:P:263:PRO:HG2	16:P:266:PHE:CD2	2.24	0.65
16:P:263:PRO:C	16:P:265:GLU:N	2.53	0.65
1:A:57:PHE:O	1:A:60:ASN:N	2.28	0.65
1:A:463:LYS:HB3	1:A:464:GLU:OE1	1.95	0.65
2:B:332:ASP:HB2	2:B:346:ASP:OD2	1.96	0.65
2:B:438:ILE:HD11	2:B:442:ASP:HB3	1.79	0.65
3:C:48:ASP:CB	3:C:51:GLU:HG2	2.20	0.65
3:C:196:LEU:O	3:C:197:ARG:NH1	2.29	0.65
4:D:27:LEU:O	4:D:29:GLN:NE2	2.28	0.65
7:G:169:VAL:CG2	7:G:218:VAL:HG23	2.25	0.65
9:I:8:ILE:HD13	9:I:37:TYR:CZ	2.31	0.65
15:O:16:UNK:N	15:O:20:UNK:CB	2.60	0.65
15:O:222:GLN:HE22	15:O:226:HIS:C	2.03	0.65
15:O:275:GLU:CB	15:O:285:MET:HG3	2.25	0.65
15:O:347:LEU:CB	17:Q:152:ILE:O	2.30	0.65
15:O:350:THR:OG1	15:O:352:PHE:HE1	1.79	0.65
15:O:656:HIS:CD2	15:O:747:LEU:C	2.73	0.65
15:O:693:PHE:CZ	16:P:172:LEU:HD21	2.31	0.65
15:O:724:LEU:HD12	16:P:446:TYR:C	2.21	0.65
16:P:360:LYS:N	16:P:361:PRO:CD	2.58	0.65
17:Q:158:THR:HG23	17:Q:161:ASN:CB	2.27	0.65
17:Q:246:GLN:HG2	17:Q:248:LYS:HG2	1.78	0.65
17:Q:355:THR:CG2	17:Q:356:PRO:HD3	2.24	0.65
17:Q:362:ALA:C	17:Q:364:VAL:N	2.53	0.65
1:A:233:CYS:HB3	1:A:238:MET:H	1.59	0.65
1:A:673:HIS:NE2	2:B:783:MET:HE1	2.11	0.65
1:A:821:ILE:HG22	2:B:778:TYR:HA	1.78	0.65
1:A:920:PHE:CB	1:A:921:PRO:HD2	2.25	0.65
1:A:1115:LYS:HA	5:E:152:LYS:CE	2.25	0.65
2:B:691:PHE:HB2	2:B:695:ASN:HD21	1.62	0.65
5:E:47:CYS:HB3	5:E:51:GLY:CA	2.26	0.65
7:G:166:TRP:CE3	7:G:219:ASP:HA	2.32	0.65
13:M:80:LEU:HD13	14:N:53:VAL:HG22	1.77	0.65
15:O:321:LYS:O	15:O:348:HIS:CE1	2.49	0.65
15:O:323:ASN:N	15:O:348:HIS:ND1	2.44	0.65
15:O:568:ILE:HG21	15:O:570:ASP:HB2	1.74	0.65
15:O:691:VAL:HG21	16:P:128:GLU:OE2	1.96	0.65
15:O:780:ILE:CA	16:P:199:LEU:HD11	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:330:TRP:NE1	16:P:452:PHE:HD1	1.93	0.65
16:P:358:PRO:HB3	17:Q:206:ARG:NH1	2.11	0.65
1:A:1241:PRO:O	1:A:1536:ILE:HG23	1.96	0.65
2:B:228:SER:O	2:B:254:ASN:N	2.27	0.65
2:B:565:LEU:HD13	2:B:593:ILE:CD1	2.26	0.65
2:B:664:VAL:HA	2:B:668:GLU:OE2	1.97	0.65
2:B:664:VAL:HG13	2:B:668:GLU:CG	2.27	0.65
3:C:239:ILE:CG2	3:C:288:LYS:HD2	2.26	0.65
5:E:94:LYS:HD3	5:E:123:LEU:HD22	1.77	0.65
8:H:40:LEU:HD12	8:H:122:LEU:O	1.96	0.65
14:N:96:GLU:CA	14:N:105:SER:CB	2.61	0.65
15:O:357:LEU:HD13	17:Q:20:LYS:HZ2	1.59	0.65
15:O:616:SER:HA	15:O:620:ASP:N	2.11	0.65
16:P:200:PRO:HB2	16:P:203:TRP:N	2.11	0.65
16:P:330:TRP:HE3	16:P:331:ILE:HD13	1.57	0.65
1:A:670:ILE:HG23	1:A:671:GLN:OE1	1.97	0.65
1:A:1490:GLU:HG2	9:I:55:ALA:CB	2.27	0.65
2:B:129:ARG:HG2	2:B:131:THR:CG2	2.27	0.65
3:C:73:SER:O	3:C:214:GLY:N	2.30	0.65
7:G:166:TRP:CZ3	7:G:225:ILE:HG21	2.30	0.65
8:H:40:LEU:HD13	8:H:123:MET:HB2	1.78	0.65
9:I:27:ASN:N	9:I:39:LYS:N	2.44	0.65
10:J:30:LEU:HD23	10:J:35:ALA:CA	2.26	0.65
15:O:178:VAL:CG2	15:O:360:TRP:HB3	2.22	0.65
15:O:352:PHE:HB2	15:O:355:GLU:H	1.58	0.65
15:O:375:PHE:CE2	15:O:380:MET:CE	2.79	0.65
16:P:168:ALA:O	16:P:171:HIS:HB2	1.97	0.65
1:A:396:ILE:HD12	1:A:430:ILE:HD12	1.79	0.65
1:A:1119:LYS:HG3	1:A:1120:TYR:CD2	2.31	0.65
1:A:1447:GLN:HB2	1:A:1460:TYR:HB3	1.78	0.65
2:B:1139:LYS:HB3	2:B:1143:THR:OG1	1.96	0.65
3:C:147:PRO:HD2	3:C:155:GLU:OE2	1.96	0.65
3:C:254:GLY:HA3	3:C:272:LYS:HE2	1.78	0.65
3:C:256:ILE:CD1	3:C:267:VAL:HG22	2.27	0.65
7:G:63:LYS:HA	7:G:67:ASN:HD22	1.61	0.65
10:J:30:LEU:HG	10:J:31:ASP:H	1.62	0.65
11:K:64:GLN:HE21	11:K:100:LEU:HD22	1.61	0.65
15:O:647:GLU:HG3	15:O:649:ILE:CG1	2.27	0.65
16:P:118:TRP:HH2	16:P:189:LYS:HD3	0.72	0.65
1:A:912:VAL:CG1	1:A:913:PRO:HD2	2.27	0.65
1:A:921:PRO:CD	8:H:19:ARG:HG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:817:ARG:HB3	2:B:819:ASP:OD2	1.97	0.65
2:B:1010:ASN:HB3	2:B:1025:ASP:C	2.22	0.65
3:C:143:ASN:O	3:C:145:ASP:N	2.26	0.65
4:D:31:VAL:HG11	7:G:123:TYR:CE2	2.31	0.65
7:G:75:ASN:OD1	7:G:76:LYS:N	2.30	0.65
8:H:93:TYR:HD2	8:H:143:LEU:CB	2.09	0.65
9:I:7:LEU:HB3	9:I:16:LEU:HD11	1.79	0.65
15:O:273:ARG:HH11	15:O:274:ILE:CG2	2.08	0.65
15:O:339:ARG:HG3	15:O:340:LYS:H	1.62	0.65
15:O:357:LEU:CD1	17:Q:20:LYS:HZ1	1.85	0.65
16:P:136:ILE:HD11	16:P:171:HIS:ND1	2.11	0.65
16:P:199:LEU:N	16:P:200:PRO:CD	2.02	0.65
16:P:219:ILE:CD1	17:Q:207:ASN:CA	2.75	0.65
16:P:334:LEU:CD2	16:P:449:GLN:CD	2.70	0.65
1:A:469:LYS:HA	2:B:1070:ARG:NH1	2.11	0.65
1:A:502:ALA:O	1:A:580:HIS:HB3	1.97	0.65
1:A:629:ASP:HB3	2:B:785:ASP:OD2	1.96	0.65
2:B:16:PHE:CE1	2:B:978:ALA:HB2	2.30	0.65
2:B:943:ILE:HD11	10:J:44:TYR:OH	1.96	0.65
9:I:7:LEU:HB3	9:I:16:LEU:CD1	2.27	0.65
14:N:40:LEU:O	14:N:44:ASN:HB2	1.97	0.65
15:O:437:SER:HB2	15:O:489:PHE:CE2	2.32	0.65
16:P:147:GLN:O	16:P:151:GLU:CG	2.45	0.65
16:P:337:SER:CB	16:P:448:LYS:HD3	2.27	0.65
16:P:363:SER:O	16:P:366:TYR:CG	2.49	0.65
16:P:363:SER:C	16:P:366:TYR:CD2	2.75	0.65
17:Q:266:SER:CB	17:Q:268:LEU:HD12	2.27	0.65
1:A:25:ARG:HG2	1:A:80:GLU:OE2	1.98	0.65
1:A:665:PRO:O	1:A:666:VAL:HB	1.96	0.65
1:A:1224:GLU:OE2	1:A:1233:ILE:HA	1.97	0.65
1:A:1298:ASP:OD1	1:A:1299:ASN:N	2.30	0.65
2:B:165:LEU:HB3	2:B:166:GLN:OE1	1.97	0.65
2:B:795:GLU:HB3	3:C:216:HIS:CE1	2.32	0.65
9:I:34:LYS:H	13:M:59:ARG:CZ	2.10	0.65
15:O:214:LEU:HD12	15:O:238:LEU:HD12	1.78	0.65
15:O:511:ILE:HD13	15:O:536:ASP:CG	2.22	0.65
15:O:655:SER:O	16:P:244:ASN:ND2	2.30	0.65
16:P:360:LYS:HG3	16:P:363:SER:HB3	1.79	0.65
17:Q:280:SER:HG	17:Q:301:SER:HB3	1.60	0.65
1:A:58:LEU:HB2	1:A:60:ASN:ND2	2.13	0.64
1:A:403:LEU:C	1:A:407:GLN:OE1	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:434:VAL:O	1:A:438:ILE:HG12	1.98	0.64
1:A:842:TRP:CZ3	1:A:914:ASP:OD2	2.50	0.64
1:A:882:ILE:O	1:A:889:SER:OG	2.12	0.64
1:A:1056:ASP:HB3	1:A:1059:LYS:CG	2.26	0.64
3:C:120:LEU:CD1	3:C:124:GLU:HB2	2.10	0.64
14:N:34:HIS:HA	14:N:115:SER:OG	1.97	0.64
15:O:237:GLU:O	15:O:238:LEU:HD23	1.98	0.64
15:O:395:GLN:CD	15:O:397:LYS:HA	2.21	0.64
1:A:512:THR:N	1:A:515:ASN:OD1	2.23	0.64
1:A:683:LYS:HD2	8:H:20:TYR:CE2	2.32	0.64
1:A:1254:PHE:CZ	1:A:1532:GLN:HB3	2.32	0.64
2:B:341:SER:CB	2:B:342:PRO:CD	2.75	0.64
2:B:833:PRO:HD2	2:B:836:TRP:CE2	2.32	0.64
5:E:11:ARG:HG2	5:E:14:ARG:NH2	2.11	0.64
5:E:143:ASN:CG	5:E:145:THR:HG1	2.06	0.64
7:G:62:MET:O	7:G:67:ASN:N	2.23	0.64
8:H:44:VAL:HA	8:H:47:PHE:O	1.97	0.64
9:I:17:LEU:CD1	9:I:37:TYR:CD2	2.80	0.64
15:O:274:ILE:HG23	15:O:274:ILE:O	1.97	0.64
15:O:380:MET:HE1	15:O:434:ARG:CZ	2.27	0.64
15:O:391:THR:CG2	15:O:393:VAL:HG13	2.27	0.64
15:O:408:ILE:O	15:O:409:ASP:HB2	1.95	0.64
16:P:257:VAL:O	16:P:262:LEU:CA	2.45	0.64
16:P:258:MET:H	16:P:262:LEU:HD13	1.60	0.64
1:A:18:ILE:CD1	1:A:354:SER:HB3	2.27	0.64
1:A:342:ARG:NH1	1:A:1629:ASN:O	2.31	0.64
1:A:469:LYS:C	2:B:1070:ARG:NH2	2.56	0.64
1:A:920:PHE:CZ	1:A:930:LEU:HD21	2.20	0.64
1:A:1115:LYS:HA	5:E:152:LYS:HE2	1.79	0.64
1:A:1266:VAL:HG11	1:A:1498:ILE:HD11	1.79	0.64
2:B:341:SER:HB2	2:B:342:PRO:CD	2.27	0.64
2:B:572:PRO:HG2	2:B:575:HIS:HD2	1.61	0.64
2:B:629:VAL:HG11	2:B:636:GLN:HG2	1.77	0.64
2:B:705:PRO:HG3	2:B:920:ARG:NH1	2.11	0.64
2:B:815:ARG:NH2	2:B:818:GLY:CA	2.61	0.64
5:E:9:ILE:HG12	5:E:47:CYS:SG	2.37	0.64
7:G:229:LEU:CD2	7:G:249:LEU:HD21	2.27	0.64
15:O:222:GLN:CG	15:O:225:LEU:CG	2.71	0.64
15:O:254:ILE:HG22	15:O:255:GLY:N	2.12	0.64
15:O:431:ASP:HB2	15:O:432:PRO:HD2	1.78	0.64
15:O:653:SER:OG	15:O:747:LEU:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:706:GLU:CG	16:P:438:PHE:CB	2.70	0.64
16:P:235:GLY:CA	16:P:289:ARG:HB3	2.08	0.64
16:P:343:THR:OG1	16:P:347:SER:N	2.31	0.64
16:P:371:GLU:O	16:P:374:THR:CB	2.42	0.64
17:Q:291:ARG:O	17:Q:291:ARG:HG2	1.96	0.64
1:A:114:GLU:HG3	1:A:118:TYR:CE2	2.32	0.64
1:A:611:GLU:HG3	1:A:613:THR:H	1.62	0.64
1:A:1035:ASP:CG	1:A:1039:ARG:HH12	2.05	0.64
1:A:1262:LEU:CD2	1:A:1497:ILE:HG22	2.27	0.64
1:A:1460:TYR:CE1	1:A:1462:PHE:HB2	2.32	0.64
5:E:22:MET:O	5:E:26:ARG:HG3	1.98	0.64
5:E:45:LYS:HD2	5:E:46:TYR:CE2	2.33	0.64
8:H:3:ASN:N	8:H:61:SER:OG	2.30	0.64
8:H:6:PHE:HB3	8:H:59:ILE:HD12	1.79	0.64
8:H:37:LYS:HB2	8:H:126:GLU:HB3	1.80	0.64
15:O:178:VAL:HG22	15:O:360:TRP:CB	2.22	0.64
15:O:244:SER:OG	15:O:264:ILE:HD12	1.98	0.64
15:O:380:MET:N	15:O:394:VAL:CG2	2.58	0.64
15:O:414:ILE:CD1	15:O:425:GLY:HA3	2.24	0.64
15:O:433:VAL:HB	17:Q:144:VAL:HG11	1.69	0.64
16:P:94:LYS:CG	16:P:207:LEU:HD12	2.27	0.64
16:P:355:VAL:HG13	16:P:366:TYR:CE1	2.33	0.64
16:P:417:PHE:CZ	17:Q:258:LEU:CD1	2.77	0.64
17:Q:153:ASN:O	17:Q:156:LYS:CD	2.46	0.64
1:A:244:ARG:O	1:A:251:ILE:HG23	1.96	0.64
1:A:591:ARG:HH21	1:A:631:ASP:CG	2.05	0.64
13:M:10:ILE:HG21	13:M:81:PHE:CE1	2.33	0.64
14:N:43:ASP:O	14:N:49:LYS:HG3	1.96	0.64
16:P:363:SER:CA	16:P:366:TYR:CE2	2.66	0.64
16:P:378:LEU:HD12	17:Q:235:ILE:CG1	2.27	0.64
1:A:791:TYR:N	1:A:791:TYR:CD1	2.54	0.64
1:A:1310:LYS:HE2	1:A:1464:ASP:O	1.98	0.64
2:B:175:MET:HA	2:B:179:GLU:OE1	1.96	0.64
2:B:611:TRP:HB3	2:B:617:THR:CG2	2.26	0.64
2:B:725:THR:HG21	2:B:767:ASN:HD22	1.63	0.64
3:C:197:ARG:CZ	10:J:61:LEU:HD13	2.28	0.64
9:I:7:LEU:HD23	9:I:16:LEU:HD22	1.78	0.64
11:K:74:ASN:HA	11:K:77:ARG:HG2	1.80	0.64
13:M:54:HIS:HD2	13:M:63:GLU:HG2	1.62	0.64
15:O:214:LEU:HD13	15:O:263:ILE:CD1	2.26	0.64
16:P:402:MET:CB	16:P:407:LYS:HG3	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:PHE:HD1	1:A:69:GLU:OE2	1.79	0.64
1:A:497:VAL:CG1	1:A:501:PHE:HB2	2.27	0.64
1:A:532:GLY:O	1:A:580:HIS:N	2.17	0.64
1:A:588:LEU:HD21	1:A:600:MET:HE2	1.80	0.64
1:A:1294:MET:HE1	1:A:1321:PHE:CE2	2.32	0.64
1:A:1628:ASP:CB	1:A:1630:GLU:HG2	2.25	0.64
3:C:113:LEU:HD22	3:C:130:ASN:CA	2.28	0.64
6:F:103:MET:SD	7:G:112:PRO:HG2	2.38	0.64
7:G:133:LEU:HD13	7:G:149:ILE:HD13	1.80	0.64
8:H:101:ALA:HA	8:H:116:TYR:HD1	1.63	0.64
9:I:28:VAL:N	9:I:37:TYR:H	1.94	0.64
10:J:43:ARG:O	10:J:47:ARG:HG2	1.96	0.64
14:N:56:ILE:HA	14:N:137:PHE:O	1.96	0.64
15:O:202:ILE:CG2	15:O:216:ILE:HG23	2.27	0.64
15:O:212:SER:O	15:O:242:ILE:HD11	1.98	0.64
15:O:227:LEU:HD12	15:O:549:TYR:CE1	2.32	0.64
15:O:264:ILE:CG2	15:O:302:VAL:HB	2.27	0.64
16:P:287:TRP:CZ3	16:P:290:THR:HG23	2.31	0.64
1:A:126:GLN:HB3	1:A:343:PRO:HD3	1.80	0.64
1:A:486:PRO:O	1:A:615:ARG:HD2	1.98	0.64
2:B:75:ASP:N	2:B:440:PHE:HZ	1.96	0.64
2:B:897:GLU:OE1	2:B:897:GLU:N	2.28	0.64
3:C:212:ILE:CG1	3:C:215:ASP:H	2.11	0.64
5:E:12:LEU:CD2	5:E:58:MET:HE1	2.28	0.64
5:E:16:PHE:O	5:E:20:LYS:HG3	1.97	0.64
9:I:11:LEU:HD21	13:M:31:ARG:CD	2.26	0.64
10:J:43:ARG:NH2	10:J:46:CYS:SG	2.71	0.64
15:O:271:ILE:HB	15:O:289:SER:OG	1.97	0.64
15:O:412:ASN:O	15:O:426:ALA:HB1	1.97	0.64
16:P:222:PHE:HZ	17:Q:206:ARG:HB3	1.62	0.64
16:P:256:LEU:O	16:P:259:GLN:HB3	1.97	0.64
16:P:418:PRO:O	16:P:419:LEU:HG	1.98	0.64
1:A:755:ILE:HG21	1:A:760:TRP:HE1	1.62	0.64
1:A:835:LEU:HD12	1:A:985:ARG:HH12	1.61	0.64
1:A:1254:PHE:HZ	1:A:1532:GLN:HB3	1.61	0.64
1:A:1272:VAL:N	9:I:49:THR:O	2.28	0.64
2:B:1111:LEU:HD23	2:B:1183:LYS:HE3	1.79	0.64
5:E:12:LEU:HG	5:E:58:MET:HE1	1.80	0.64
5:E:55:ARG:CD	5:E:113:GLN:HE21	2.10	0.64
9:I:23:VAL:HG11	9:I:38:PRO:HG3	1.79	0.64
9:I:27:ASN:N	9:I:38:PRO:C	2.56	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:396:ALA:O	15:O:397:LYS:HB2	1.96	0.64
16:P:165:LEU:HD13	16:P:190:MET:HE1	1.78	0.64
16:P:177:TYR:HE1	16:P:226:LEU:HD21	1.57	0.64
17:Q:133:LYS:HB2	17:Q:286:GLN:HG2	1.80	0.64
1:A:105:CYS:SG	1:A:236:CYS:CB	2.83	0.64
1:A:339:PHE:CE2	1:A:350:VAL:HG11	2.32	0.64
1:A:789:SER:O	1:A:790:LYS:CG	2.46	0.64
1:A:1154:LEU:HD12	1:A:1157:SER:OG	1.98	0.64
2:B:502:MET:HG3	2:B:542:LEU:HG	1.79	0.64
2:B:572:PRO:HB2	2:B:575:HIS:CD2	2.32	0.64
2:B:815:ARG:HE	2:B:815:ARG:C	2.06	0.64
7:G:100:THR:HG23	7:G:102:GLU:C	2.22	0.64
15:O:352:PHE:CG	15:O:355:GLU:OE1	2.43	0.64
15:O:714:PHE:CZ	15:O:741:ILE:HD11	2.33	0.64
16:P:354:LYS:HB3	16:P:362:THR:CB	2.27	0.64
16:P:355:VAL:CA	16:P:366:TYR:HE1	2.11	0.64
17:Q:394:GLY:O	17:Q:396:ASP:N	2.31	0.64
1:A:117:ARG:HB2	1:A:185:ARG:NH1	2.12	0.63
1:A:334:VAL:HG22	1:A:338:VAL:CG2	2.28	0.63
1:A:335:LEU:HD23	1:A:338:VAL:HG11	1.80	0.63
2:B:194:PHE:HD2	2:B:465:LEU:HD21	1.61	0.63
2:B:566:TYR:CD2	13:M:73:SER:HB2	2.33	0.63
2:B:733:LEU:HD22	2:B:741:LEU:CD1	2.28	0.63
2:B:815:ARG:NH1	2:B:818:GLY:H	1.94	0.63
8:H:6:PHE:CZ	8:H:8:ASP:HB2	2.32	0.63
8:H:95:TYR:CE2	8:H:97:MET:HG3	2.33	0.63
10:J:36:LEU:HD22	10:J:41:LEU:CD1	2.26	0.63
15:O:627:GLY:O	15:O:630:LEU:HG	1.98	0.63
15:O:719:LEU:O	15:O:723:VAL:HG23	1.98	0.63
16:P:200:PRO:HA	16:P:203:TRP:HD1	1.62	0.63
1:A:487:ASP:HB2	1:A:615:ARG:CG	2.28	0.63
1:A:593:PRO:C	1:A:595:LEU:H	2.06	0.63
1:A:704:ASP:HB3	1:A:706:HIS:CD2	2.32	0.63
1:A:1641:ILE:HD12	2:B:1076:ARG:HH11	1.63	0.63
2:B:673:ASN:O	2:B:686:HIS:HA	1.97	0.63
2:B:833:PRO:HD2	2:B:836:TRP:CZ2	2.33	0.63
7:G:26:ASN:CG	7:G:37:CYS:HA	2.24	0.63
10:J:12:LYS:HB2	10:J:43:ARG:HH22	1.63	0.63
13:M:15:VAL:CG2	13:M:90:LEU:HD12	2.27	0.63
13:M:39:ASP:HB2	13:M:54:HIS:O	1.98	0.63
14:N:96:GLU:O	14:N:105:SER:CB	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:15:UNK:O	15:O:20:UNK:CB	2.46	0.63
15:O:693:PHE:CD2	15:O:746:ARG:CA	2.80	0.63
15:O:705:HIS:NE2	15:O:707:ASP:CB	2.50	0.63
15:O:724:LEU:O	16:P:446:TYR:HB3	1.98	0.63
15:O:747:LEU:CD1	15:O:748:GLU:N	2.40	0.63
16:P:118:TRP:CZ2	16:P:189:LYS:CG	2.58	0.63
17:Q:229:TRP:O	17:Q:233:TYR:CE2	2.50	0.63
17:Q:302:ARG:HH21	17:Q:303:THR:HG23	1.61	0.63
1:A:19:LEU:HD12	2:B:1186:ASP:HA	1.80	0.63
1:A:81:LEU:HD23	1:A:81:LEU:N	2.06	0.63
1:A:109:ARG:HB2	1:A:230:ARG:CB	2.28	0.63
1:A:592:GLN:N	1:A:593:PRO:HD2	2.12	0.63
1:A:658:LEU:HA	1:A:665:PRO:HA	1.80	0.63
1:A:1229:ALA:HB3	1:A:1597:ALA:HB2	1.81	0.63
1:A:1237:GLN:H	1:A:1544:ASN:CG	2.06	0.63
2:B:286:ARG:HD3	9:I:9:PHE:CD2	2.32	0.63
2:B:733:LEU:HD12	2:B:743:ARG:NH1	2.14	0.63
2:B:1162:GLY:C	2:B:1164:GLY:H	2.04	0.63
3:C:204:LEU:HD12	3:C:204:LEU:O	1.98	0.63
5:E:1:MET:HB3	5:E:4:GLU:CB	2.28	0.63
7:G:125:TRP:CZ2	7:G:127:PRO:HB3	2.33	0.63
9:I:20:PRO:CG	9:I:37:TYR:CD2	2.80	0.63
15:O:657:SER:CB	15:O:746:ARG:NH1	2.38	0.63
16:P:120:ILE:O	16:P:124:ARG:HA	1.98	0.63
16:P:204:ARG:O	16:P:208:PRO:HD2	1.90	0.63
16:P:354:LYS:CE	16:P:362:THR:HG22	2.26	0.63
17:Q:10:ASN:O	17:Q:10:ASN:ND2	2.30	0.63
1:A:842:TRP:HZ3	1:A:914:ASP:OD2	1.82	0.63
1:A:1274:GLU:OE2	1:A:1288:ARG:NH1	2.22	0.63
2:B:201:LYS:HA	2:B:486:VAL:O	1.98	0.63
12:L:32:ALA:HB3	12:L:53:HIS:CD2	2.33	0.63
15:O:10:UNK:C	17:Q:141:TRP:HB3	2.27	0.63
15:O:302:VAL:HA	15:O:320:ILE:HG13	1.79	0.63
15:O:474:LYS:HE2	15:O:498:LEU:HG	1.79	0.63
15:O:657:SER:O	15:O:658:LYS:CG	2.47	0.63
15:O:714:PHE:HE2	15:O:741:ILE:HD13	1.62	0.63
1:A:52:LEU:HD13	1:A:60:ASN:HB3	1.80	0.63
1:A:460:LEU:HB3	1:A:466:LEU:HB3	1.78	0.63
1:A:591:ARG:HH21	1:A:631:ASP:HB3	1.62	0.63
1:A:1074:TYR:CZ	1:A:1159:ASP:OD2	2.51	0.63
1:A:1161:VAL:CG1	1:A:1166:PHE:HB2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1294:MET:HE3	1:A:1472:PHE:CZ	2.33	0.63
2:B:676:VAL:HB	2:B:680:GLU:OE2	1.97	0.63
2:B:721:MET:O	2:B:725:THR:OG1	2.16	0.63
2:B:726:MET:HB3	2:B:1035:ARG:O	1.99	0.63
2:B:1182:LEU:CD1	2:B:1187:SER:HB2	2.24	0.63
3:C:128:ASP:HB2	3:C:175:GLN:NE2	2.13	0.63
7:G:217:TRP:O	7:G:225:ILE:HG12	1.99	0.63
13:M:76:TYR:CE1	14:N:57:LYS:HG2	2.34	0.63
14:N:114:GLU:HG3	14:N:116:LYS:H	1.64	0.63
15:O:734:LYS:HD2	15:O:737:VAL:HG11	1.80	0.63
16:P:224:GLY:O	16:P:226:LEU:N	2.31	0.63
16:P:341:ARG:CB	16:P:445:ARG:HH22	2.07	0.63
1:A:461:GLU:HG3	1:A:1618:THR:HB	1.69	0.63
1:A:512:THR:HG21	1:A:514:TYR:CE2	2.34	0.63
2:B:1071:VAL:HA	2:B:1075:GLU:OE1	1.99	0.63
4:D:19:PRO:CG	4:D:22:ILE:HD11	2.29	0.63
7:G:143:SER:O	7:G:158:LYS:HA	1.99	0.63
8:H:39:THR:O	8:H:123:MET:HA	1.98	0.63
14:N:166:LEU:HD12	14:N:166:LEU:O	1.99	0.63
15:O:194:ARG:CG	15:O:197:ARG:CZ	2.76	0.63
15:O:388:ASN:O	17:Q:150:GLN:OE1	2.17	0.63
15:O:390:GLN:CB	17:Q:151:PRO:CG	2.71	0.63
15:O:422:ILE:HG13	15:O:440:HIS:CD2	2.33	0.63
15:O:454:GLN:O	15:O:465:VAL:HG22	1.98	0.63
15:O:693:PHE:CE2	15:O:746:ARG:HB2	2.30	0.63
15:O:771:ILE:CG2	16:P:109:GLN:OE1	2.37	0.63
16:P:359:ASP:OD1	16:P:361:PRO:HD3	1.98	0.63
16:P:483:ILE:O	16:P:487:LEU:HG	1.99	0.63
17:Q:355:THR:C	17:Q:359:MET:HG2	1.87	0.63
1:A:65:CYS:CB	1:A:75:HIS:CE1	2.67	0.63
1:A:111:LYS:HG2	1:A:114:GLU:HB2	1.81	0.63
1:A:237:GLY:O	1:A:267:LYS:NZ	2.30	0.63
1:A:403:LEU:CD2	1:A:407:GLN:CD	2.72	0.63
2:B:225:ARG:NH2	2:B:261:ARG:HH12	1.96	0.63
2:B:444:ARG:O	2:B:448:ARG:HB2	1.98	0.63
5:E:26:ARG:NH2	5:E:187:TYR:O	2.30	0.63
7:G:161:ASN:O	7:G:250:ILE:HG23	1.99	0.63
13:M:43:LYS:HB2	14:N:29:PHE:CD1	2.34	0.63
14:N:74:PHE:CD1	14:N:77:SER:HB2	2.33	0.63
15:O:301:GLN:HG2	15:O:321:LYS:NZ	2.13	0.63
15:O:698:LYS:HE3	16:P:124:ARG:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:151:GLU:OE1	16:P:153:LYS:N	2.29	0.63
16:P:176:VAL:HG22	16:P:177:TYR:N	2.14	0.63
16:P:378:LEU:HD22	17:Q:234:LYS:HD3	1.79	0.63
16:P:419:LEU:HD13	16:P:420:ASP:H	1.59	0.63
16:P:442:LEU:HD11	16:P:446:TYR:CE2	2.33	0.63
17:Q:1:MET:N	17:Q:218:ASP:OD2	2.32	0.63
1:A:591:ARG:HG3	1:A:624:TYR:HB3	1.81	0.63
1:A:674:ILE:HD12	1:A:786:TYR:CE1	2.34	0.63
1:A:1659:LYS:N	6:F:131:PRO:O	2.20	0.63
3:C:204:LEU:HD12	3:C:204:LEU:C	2.22	0.63
5:E:54:GLN:HG3	5:E:57:MET:HE3	1.81	0.63
7:G:163:PRO:HD2	7:G:166:TRP:CD1	2.34	0.63
8:H:58:THR:HG1	8:H:93:TYR:HE2	1.46	0.63
9:I:2:SER:N	9:I:9:PHE:O	2.32	0.63
13:M:41:TYR:HB2	13:M:52:VAL:O	1.99	0.63
15:O:347:LEU:HD23	17:Q:152:ILE:CG2	2.29	0.63
15:O:347:LEU:HD22	17:Q:152:ILE:CG1	2.21	0.63
15:O:420:GLU:HA	15:O:442:LEU:HD11	1.79	0.63
15:O:433:VAL:HA	17:Q:144:VAL:CG1	2.25	0.63
15:O:499:GLU:CG	15:O:500:ILE:HD12	2.29	0.63
15:O:749:LYS:H	15:O:750:PRO:HD3	1.64	0.63
16:P:257:VAL:O	16:P:262:LEU:HB2	1.99	0.63
17:Q:384:VAL:N	17:Q:388:LYS:O	2.32	0.63
1:A:1115:LYS:CG	5:E:152:LYS:NZ	2.62	0.63
2:B:470:LEU:HD22	2:B:484:TYR:CE2	2.34	0.63
3:C:175:GLN:HB2	3:C:179:PHE:CE2	2.33	0.63
5:E:118:PRO:O	5:E:122:LYS:HG2	1.99	0.63
7:G:216:HIS:NE2	7:G:224:PRO:HB2	2.14	0.63
9:I:20:PRO:O	9:I:23:VAL:HG22	1.98	0.63
13:M:42:LYS:HG3	13:M:51:PHE:HE1	1.64	0.63
13:M:81:PHE:CE2	13:M:83:PRO:HA	2.34	0.63
15:O:222:GLN:CG	15:O:225:LEU:HG	2.26	0.63
15:O:323:ASN:C	15:O:348:HIS:CG	2.76	0.63
15:O:489:PHE:O	15:O:490:GLN:HG2	1.98	0.63
16:P:184:TRP:CH2	16:P:192:TYR:CD2	2.86	0.63
1:A:365:THR:HA	1:A:368:ARG:HB3	1.80	0.62
1:A:957:VAL:HG12	1:A:958:PRO:O	1.99	0.62
1:A:970:LYS:HE2	1:A:973:GLU:OE1	1.99	0.62
1:A:1273:THR:HA	9:I:47:VAL:O	1.99	0.62
2:B:518:ARG:NH1	2:B:537:SER:O	2.31	0.62
2:B:1106:GLU:HB2	2:B:1131:CYS:SG	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:143:SER:O	7:G:158:LYS:HG3	1.98	0.62
7:G:169:VAL:HG23	7:G:216:HIS:HB3	1.81	0.62
15:O:239:HIS:O	15:O:240:SER:OG	2.11	0.62
15:O:377:ARG:HG3	15:O:378:SER:N	2.13	0.62
15:O:511:ILE:O	15:O:512:LEU:HB3	1.98	0.62
16:P:200:PRO:CB	16:P:203:TRP:HD1	2.11	0.62
16:P:200:PRO:HB2	16:P:203:TRP:CB	2.20	0.62
1:A:111:LYS:HG3	1:A:114:GLU:CA	2.28	0.62
1:A:658:LEU:HD22	1:A:665:PRO:CD	2.30	0.62
1:A:913:PRO:O	1:A:919:LYS:HE3	1.98	0.62
2:B:314:LYS:NZ	9:I:15:ASP:OD2	2.28	0.62
2:B:1111:LEU:HD23	2:B:1183:LYS:CE	2.29	0.62
3:C:211:GLY:HA3	3:C:219:PHE:CE1	2.34	0.62
15:O:659:LEU:HD13	15:O:659:LEU:N	2.05	0.62
15:O:758:ASN:O	15:O:761:SER:HB2	1.98	0.62
15:O:780:ILE:C	16:P:199:LEU:CD1	2.71	0.62
16:P:185:ILE:CD1	17:Q:208:TYR:OH	2.47	0.62
16:P:387:PRO:C	16:P:389:GLN:N	2.55	0.62
1:A:1:MET:HA	2:B:1098:TYR:CD2	2.34	0.62
1:A:946:LEU:HD12	1:A:946:LEU:C	2.24	0.62
2:B:154:GLU:HG2	2:B:156:ARG:HD3	1.80	0.62
2:B:526:GLY:O	2:B:651:ARG:HD2	1.99	0.62
2:B:858:ILE:CG1	2:B:874:TYR:HB2	2.29	0.62
2:B:1084:THR:HG23	2:B:1084:THR:O	1.97	0.62
3:C:125:LYS:O	3:C:130:ASN:ND2	2.32	0.62
5:E:97:VAL:HG13	5:E:132:ILE:HD11	1.80	0.62
7:G:97:LYS:HZ1	7:G:99:ASP:C	2.08	0.62
10:J:10:CYS:CB	10:J:45:CYS:SG	2.54	0.62
13:M:33:PRO:HD2	13:M:36:THR:HB	1.81	0.62
15:O:175:ASP:OD2	17:Q:190:SER:HB3	1.98	0.62
15:O:214:LEU:H	15:O:236:ILE:CB	2.12	0.62
15:O:261:VAL:HG12	15:O:262:GLY:N	2.14	0.62
15:O:275:GLU:C	15:O:284:VAL:HG13	2.21	0.62
15:O:405:TYR:HE2	15:O:414:ILE:HG23	1.61	0.62
15:O:414:ILE:HB	15:O:425:GLY:O	1.99	0.62
15:O:599:LYS:CG	16:P:272:GLN:NE2	2.61	0.62
16:P:137:TRP:NE1	16:P:141:LEU:HD21	2.14	0.62
16:P:239:PHE:HE1	16:P:246:GLU:CD	2.06	0.62
17:Q:393:ILE:HG12	17:Q:395:LEU:HB2	1.80	0.62
8:H:17:PRO:HA	8:H:24:CYS:SG	2.39	0.62
13:M:42:LYS:HG3	13:M:51:PHE:CE1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:214:LEU:CB	15:O:236:ILE:CB	2.77	0.62
15:O:309:PRO:HG3	15:O:365:TRP:CD1	2.29	0.62
15:O:366:PHE:HB2	15:O:373:LEU:CD1	2.29	0.62
15:O:461:HIS:HB3	15:O:484:ARG:HG2	1.81	0.62
15:O:469:TYR:HB3	15:O:476:ILE:CD1	2.30	0.62
15:O:599:LYS:HZ3	16:P:275:GLU:CD	2.07	0.62
15:O:604:ILE:HG23	15:O:732:LEU:CD2	2.29	0.62
15:O:775:TRP:HD1	16:P:109:GLN:C	2.06	0.62
16:P:100:ALA:HB2	16:P:209:ASN:ND2	1.78	0.62
16:P:118:TRP:HH2	16:P:189:LYS:CE	2.03	0.62
16:P:137:TRP:CD1	16:P:141:LEU:HD11	2.34	0.62
16:P:356:VAL:CG1	17:Q:211:ARG:HH21	2.11	0.62
17:Q:177:LEU:O	17:Q:185:LYS:HE2	2.00	0.62
17:Q:380:SER:HB2	17:Q:438:PHE:HZ	1.65	0.62
1:A:1612:LYS:HD2	1:A:1621:PHE:CD1	2.35	0.62
3:C:115:TRP:HZ3	3:C:211:GLY:HA2	1.63	0.62
3:C:128:ASP:CG	3:C:174:ARG:HH21	2.08	0.62
7:G:45:LEU:C	7:G:45:LEU:HD12	2.25	0.62
7:G:218:VAL:HG22	7:G:224:PRO:HB3	1.81	0.62
7:G:231:PHE:HB2	7:G:248:THR:O	2.00	0.62
7:G:236:VAL:HA	7:G:245:VAL:HA	1.80	0.62
10:J:23:ASN:OD1	10:J:27:GLU:HB2	1.99	0.62
14:N:46:LYS:HZ1	14:N:125:ALA:HB2	1.63	0.62
15:O:194:ARG:HB3	15:O:194:ARG:NH1	2.14	0.62
15:O:696:PHE:CB	15:O:711:LEU:HD12	1.96	0.62
16:P:104:PHE:CA	16:P:211:TYR:CD1	2.82	0.62
16:P:257:VAL:C	16:P:262:LEU:CD1	2.73	0.62
1:A:109:ARG:CB	1:A:230:ARG:HB3	2.22	0.62
1:A:1632:GLU:HG3	1:A:1634:LEU:H	1.64	0.62
2:B:322:ASN:ND2	13:M:104:SER:O	2.31	0.62
2:B:429:ARG:HA	2:B:432:ILE:HD11	1.81	0.62
2:B:479:GLN:OE1	2:B:479:GLN:N	2.30	0.62
2:B:889:GLY:O	2:B:892:SER:OG	2.10	0.62
3:C:283:GLU:H	3:C:283:GLU:CD	2.04	0.62
15:O:222:GLN:HE22	15:O:227:LEU:C	2.07	0.62
15:O:297:ILE:O	15:O:297:ILE:CG2	2.46	0.62
15:O:303:VAL:HG12	15:O:361:LYS:O	1.99	0.62
16:P:372:GLU:O	16:P:374:THR:N	2.32	0.62
17:Q:8:LEU:O	17:Q:10:ASN:N	2.33	0.62
17:Q:280:SER:OG	17:Q:301:SER:CB	2.48	0.62
1:A:81:LEU:HD13	1:A:357:MET:O	1.91	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:CD2	1:A:115:VAL:HG23	2.29	0.62
1:A:241:PRO:CG	1:A:253:GLU:HG3	2.29	0.62
1:A:396:ILE:HD12	1:A:430:ILE:CD1	2.28	0.62
1:A:414:GLU:OE1	1:A:417:ARG:NH1	2.32	0.62
1:A:834:ARG:O	1:A:917:MET:N	2.26	0.62
1:A:1104:TYR:OH	1:A:1117:SER:HB2	2.00	0.62
2:B:29:PRO:O	2:B:177:PRO:HB2	2.00	0.62
2:B:657:PRO:HD3	14:N:148:ILE:HD11	1.81	0.62
8:H:30:SER:HB3	8:H:36:CYS:HB3	1.80	0.62
15:O:399:TRP:HD1	17:Q:134:PRO:HB3	1.63	0.62
15:O:691:VAL:HG22	15:O:691:VAL:O	2.00	0.62
16:P:208:PRO:HB3	16:P:212:VAL:HG12	1.80	0.62
17:Q:362:ALA:C	17:Q:364:VAL:H	2.08	0.62
1:A:468:ARG:NE	2:B:1073:GLU:OE2	2.33	0.62
1:A:530:TRP:HB3	1:A:531:PRO:HD2	0.68	0.62
1:A:676:ALA:CB	1:A:821:ILE:HD11	2.28	0.62
1:A:822:THR:HA	2:B:778:TYR:CE1	2.35	0.62
5:E:90:VAL:O	5:E:123:LEU:HD11	2.00	0.62
15:O:308:ASN:HB3	15:O:310:TRP:CD1	2.34	0.62
15:O:593:VAL:HG21	16:P:320:PHE:HB2	1.79	0.62
15:O:704:LEU:CD1	16:P:123:MET:HE2	2.21	0.62
16:P:354:LYS:CG	16:P:362:THR:CB	2.77	0.62
16:P:354:LYS:HZ3	16:P:362:THR:CG2	2.11	0.62
16:P:372:GLU:C	16:P:374:THR:N	2.52	0.62
17:Q:354:LEU:CD1	17:Q:359:MET:N	2.45	0.62
1:A:1655:ASP:OD1	1:A:1656:VAL:N	2.33	0.62
1:A:1657:LEU:HG	7:G:106:LYS:HA	1.81	0.62
2:B:151:ASN:O	2:B:152:LEU:HD12	2.00	0.62
2:B:180:LEU:HD23	2:B:187:SER:C	2.24	0.62
2:B:679:GLN:HB3	14:N:156:PRO:HA	1.80	0.62
2:B:1126:VAL:C	2:B:1166:LYS:HE3	2.25	0.62
15:O:414:ILE:HD13	15:O:434:ARG:HH11	1.65	0.62
16:P:103:LEU:HA	16:P:106:LYS:HB2	1.82	0.62
16:P:104:PHE:CD1	16:P:211:TYR:CG	2.87	0.62
16:P:198:ILE:HD13	16:P:198:ILE:H	1.63	0.62
16:P:328:LEU:CD1	16:P:472:ARG:HB3	2.29	0.62
16:P:494:SER:OG	16:P:498:LEU:N	2.32	0.62
17:Q:133:LYS:HB2	17:Q:286:GLN:CD	2.23	0.62
17:Q:154:LYS:O	17:Q:155:GLN:NE2	2.32	0.62
17:Q:246:GLN:O	17:Q:248:LYS:HB2	1.99	0.62
17:Q:251:TRP:HD1	17:Q:298:GLN:OE1	1.83	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:349:ILE:HA	17:Q:352:TRP:CD1	2.35	0.62
1:A:99:ARG:HH22	1:A:228:LEU:HD22	1.64	0.62
1:A:173:ILE:CG2	1:A:178:LEU:HD21	2.30	0.62
1:A:642:ASN:O	1:A:646:GLU:HG3	2.00	0.62
1:A:690:GLU:HG2	11:K:81:MET:HE2	1.80	0.62
2:B:468:GLY:O	2:B:482:SER:HA	1.99	0.62
3:C:247:PHE:HB2	3:C:285:PHE:CZ	2.35	0.62
3:C:272:LYS:HA	14:N:175:TYR:CE2	2.35	0.62
9:I:30:CYS:SG	9:I:33:CYS:N	2.72	0.62
15:O:215:ASN:HA	15:O:236:ILE:HG12	1.80	0.62
16:P:150:GLU:O	16:P:152:LEU:HD21	1.98	0.62
1:A:199:ASP:CB	1:A:201:ARG:HG3	2.27	0.61
1:A:1104:TYR:CE2	1:A:1119:LYS:CG	2.81	0.61
1:A:1223:ARG:HG3	1:A:1227:MET:SD	2.40	0.61
2:B:371:PHE:CE2	2:B:375:LEU:HD11	2.35	0.61
2:B:691:PHE:HB2	2:B:695:ASN:ND2	2.15	0.61
9:I:8:ILE:HG21	9:I:37:TYR:CZ	2.32	0.61
11:K:54:THR:HG23	11:K:61:ALA:HB2	1.80	0.61
14:N:94:ASP:O	14:N:96:GLU:N	2.32	0.61
15:O:200:THR:HB	15:O:218:VAL:HG13	1.82	0.61
15:O:389:TRP:O	15:O:390:GLN:CG	2.38	0.61
15:O:407:ARG:HH11	15:O:411:LYS:HG2	1.65	0.61
15:O:427:SER:O	15:O:435:ARG:HD3	1.99	0.61
15:O:428:GLU:HG2	15:O:433:VAL:C	2.25	0.61
15:O:641:TRP:HD1	15:O:748:GLU:HG2	1.65	0.61
15:O:705:HIS:NE2	15:O:709:PRO:HD3	2.14	0.61
15:O:775:TRP:CD1	16:P:109:GLN:C	2.78	0.61
16:P:113:LYS:O	16:P:116:ILE:CG1	2.46	0.61
16:P:270:THR:O	16:P:274:ILE:HG13	1.99	0.61
16:P:496:GLU:HA	16:P:499:LYS:HB2	1.82	0.61
17:Q:173:MET:HA	17:Q:173:MET:HE2	1.82	0.61
17:Q:358:PHE:HD1	17:Q:365:TRP:CZ3	2.18	0.61
1:A:456:VAL:O	1:A:459:ALA:HB3	1.95	0.61
1:A:557:LEU:O	1:A:561:LEU:N	2.34	0.61
1:A:590:ASN:HB2	1:A:600:MET:HG3	1.82	0.61
1:A:912:VAL:C	1:A:914:ASP:N	2.58	0.61
1:A:1030:VAL:HB	1:A:1186:GLY:HA3	1.81	0.61
1:A:1439:MET:HE1	1:A:1460:TYR:O	2.00	0.61
2:B:744:LEU:HD12	2:B:800:TYR:O	1.99	0.61
3:C:31:TRP:HA	3:C:35:LYS:HD3	1.82	0.61
15:O:9:UNK:O	15:O:11:UNK:CB	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:391:THR:HG22	15:O:392:GLU:N	2.15	0.61
16:P:198:ILE:O	16:P:199:LEU:HB2	1.99	0.61
16:P:209:ASN:CG	16:P:211:TYR:CE2	2.77	0.61
1:A:38:LEU:HD12	1:A:43:HIS:C	2.25	0.61
1:A:245:LYS:CB	1:A:251:ILE:HD13	2.30	0.61
1:A:367:PHE:HB2	2:B:1180:PHE:CZ	2.36	0.61
1:A:1658:ALA:O	7:G:104:LEU:HA	2.00	0.61
2:B:185:GLU:O	10:J:63:TYR:OH	2.12	0.61
3:C:175:GLN:HA	3:C:178:THR:HB	1.82	0.61
7:G:157:ILE:HG22	7:G:162:ILE:HG13	1.82	0.61
15:O:9:UNK:O	15:O:11:UNK:CA	2.48	0.61
15:O:247:ILE:O	15:O:247:ILE:HG22	1.99	0.61
15:O:329:ILE:HG22	15:O:340:LYS:N	2.14	0.61
15:O:350:THR:HG23	17:Q:153:ASN:CG	2.26	0.61
15:O:616:SER:OG	15:O:620:ASP:HB3	1.93	0.61
1:A:80:GLU:HA	1:A:359:VAL:HG12	1.82	0.61
1:A:233:CYS:O	1:A:237:GLY:HA2	2.00	0.61
1:A:520:ARG:HA	1:A:561:LEU:CD1	2.30	0.61
1:A:865:ASP:OD1	1:A:866:LYS:N	2.33	0.61
2:B:1039:MET:CG	2:B:1041:ASN:HB3	2.31	0.61
8:H:15:VAL:HA	8:H:26:ILE:HD12	1.82	0.61
13:M:36:THR:HG23	13:M:38:PHE:CE1	2.35	0.61
15:O:225:LEU:H	15:O:225:LEU:HD22	1.65	0.61
15:O:314:GLN:O	15:O:329:ILE:HG13	2.01	0.61
15:O:350:THR:HG23	17:Q:153:ASN:OD1	1.99	0.61
16:P:104:PHE:CA	16:P:211:TYR:HE1	2.10	0.61
16:P:294:HIS:CB	20:T:48:DA:H61	2.11	0.61
16:P:497:GLN:HG2	16:P:498:LEU:H	1.65	0.61
17:Q:21:TYR:CD2	17:Q:124:GLU:CG	2.84	0.61
17:Q:202:THR:HG22	17:Q:202:THR:O	2.00	0.61
1:A:406:LEU:CD1	1:A:416:ARG:HG2	2.29	0.61
1:A:677:GLY:HA2	1:A:817:PHE:CE1	2.35	0.61
1:A:1312:GLU:O	1:A:1316:VAL:HG12	2.00	0.61
1:A:1315:ASN:O	1:A:1319:ASN:ND2	2.31	0.61
1:A:1455:ARG:HG3	1:A:1456:PHE:CD1	2.34	0.61
2:B:788:ILE:HG21	2:B:931:TRP:HB2	1.83	0.61
2:B:942:GLY:HA2	3:C:226:SER:CB	2.31	0.61
5:E:86:PRO:HA	5:E:113:GLN:HB2	1.82	0.61
7:G:58:LEU:HD22	7:G:87:LEU:HD23	1.82	0.61
14:N:163:VAL:O	14:N:166:LEU:HD23	1.99	0.61
15:O:276:SER:HA	15:O:284:VAL:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:357:LEU:HD23	15:O:357:LEU:H	1.65	0.61
15:O:573:GLU:O	16:P:499:LYS:CD	2.47	0.61
16:P:123:MET:CA	16:P:125:PHE:HE1	2.07	0.61
17:Q:142:ARG:HH11	17:Q:142:ARG:CG	2.14	0.61
17:Q:248:LYS:N	17:Q:298:GLN:HE22	1.97	0.61
17:Q:354:LEU:CA	17:Q:359:MET:N	2.51	0.61
1:A:2:ASP:OD2	1:A:4:SER:HB2	2.01	0.61
1:A:646:GLU:OE1	2:B:1087:LEU:N	2.33	0.61
1:A:1101:THR:O	1:A:1105:ARG:HB2	1.99	0.61
2:B:322:ASN:HD22	13:M:105:SER:HA	1.66	0.61
5:E:90:VAL:HG21	5:E:119:SER:HB2	1.83	0.61
6:F:130:ILE:CG2	6:F:132:LEU:HG	2.31	0.61
7:G:37:CYS:HB2	7:G:125:TRP:CD1	2.36	0.61
8:H:93:TYR:HD2	8:H:143:LEU:HB3	1.66	0.61
14:N:72:VAL:HB	14:N:137:PHE:CE2	2.36	0.61
15:O:351:ILE:O	17:Q:31:PHE:CE1	2.53	0.61
15:O:541:LEU:HD12	15:O:541:LEU:N	2.16	0.61
16:P:488:LEU:C	16:P:493:ILE:HG23	2.25	0.61
17:Q:158:THR:C	17:Q:160:HIS:N	2.54	0.61
1:A:257:ASN:HB3	1:A:260:GLN:HG3	1.82	0.61
1:A:328:PHE:HE2	1:A:352:ALA:HA	1.66	0.61
1:A:1034:TYR:OH	1:A:1654:PHE:HB3	2.00	0.61
5:E:13:TRP:HB3	5:E:39:LEU:HD13	1.83	0.61
9:I:28:VAL:N	9:I:37:TYR:N	2.41	0.61
9:I:41:GLN:OE1	9:I:43:SER:CB	2.49	0.61
15:O:388:ASN:CB	17:Q:150:GLN:NE2	2.55	0.61
15:O:408:ILE:HG22	15:O:413:GLY:O	2.01	0.61
15:O:540:LYS:C	15:O:541:LEU:HD12	2.25	0.61
15:O:623:LEU:HD12	15:O:668:SER:O	1.98	0.61
15:O:641:TRP:CB	15:O:748:GLU:CD	2.68	0.61
15:O:648:SER:OG	15:O:759:GLU:CD	2.43	0.61
16:P:357:TYR:N	16:P:366:TYR:OH	2.32	0.61
16:P:431:ASP:O	16:P:434:HIS:CA	2.49	0.61
17:Q:393:ILE:O	17:Q:393:ILE:HG12	2.01	0.61
2:B:814:ASN:O	2:B:815:ARG:C	2.43	0.61
2:B:1005:TYR:CE2	14:N:170:HIS:HB2	2.36	0.61
3:C:230:LEU:HD12	3:C:231:PRO:HD2	1.83	0.61
5:E:26:ARG:HH12	5:E:133:GLU:CD	2.09	0.61
5:E:85:GLU:O	5:E:113:GLN:HB2	2.01	0.61
7:G:73:TYR:HA	7:G:80:VAL:HA	1.83	0.61
7:G:242:VAL:CG2	7:G:243:VAL:H	1.94	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:27:ASN:HB3	9:I:39:LYS:H	0.63	0.61
15:O:436:ILE:HG12	17:Q:141:TRP:CZ3	2.36	0.61
15:O:669:PHE:CE1	15:O:738:LYS:HG2	2.35	0.61
16:P:263:PRO:HG2	16:P:266:PHE:CG	2.30	0.61
16:P:381:MET:CE	16:P:385:PHE:CD2	2.84	0.61
16:P:404:ILE:HG22	16:P:404:ILE:O	2.01	0.61
1:A:1088:HIS:CD2	6:F:152:ILE:HD11	2.36	0.61
1:A:1104:TYR:CD2	1:A:1119:LYS:CG	2.82	0.61
1:A:1115:LYS:HG3	5:E:152:LYS:HZ1	1.64	0.61
2:B:492:ASN:OD1	2:B:493:PHE:N	2.33	0.61
2:B:1044:PHE:O	2:B:1063:ARG:HD2	2.01	0.61
3:C:234:ASN:HB3	3:C:290:LYS:HB2	1.83	0.61
5:E:7:ARG:O	5:E:11:ARG:HB2	2.00	0.61
7:G:96:SER:O	7:G:98:GLU:N	2.34	0.61
13:M:59:ARG:CB	13:M:60:LEU:HD12	2.31	0.61
15:O:382:GLU:OE1	17:Q:144:VAL:HG13	2.01	0.61
17:Q:266:SER:OG	17:Q:268:LEU:HD12	2.01	0.61
1:A:6:PRO:HG3	7:G:113:PHE:CD2	2.36	0.61
1:A:68:ASP:OD1	1:A:69:GLU:N	2.33	0.61
1:A:456:VAL:C	1:A:459:ALA:HB2	2.23	0.61
1:A:921:PRO:HG2	8:H:19:ARG:CG	2.24	0.61
2:B:139:LEU:HD12	2:B:139:LEU:O	2.01	0.61
2:B:731:VAL:HA	10:J:60:PHE:CE1	2.28	0.61
3:C:40:PHE:HD2	11:K:134:LYS:HD2	1.66	0.61
3:C:256:ILE:HA	3:C:267:VAL:HA	1.82	0.61
15:O:282:CYS:O	15:O:284:VAL:HG23	2.01	0.61
15:O:619:GLU:HA	15:O:622:TYR:HD2	1.66	0.61
16:P:356:VAL:HG12	17:Q:211:ARG:NE	2.16	0.61
16:P:357:TYR:HA	16:P:366:TYR:OH	2.01	0.61
16:P:419:LEU:HD12	16:P:420:ASP:CA	2.31	0.61
1:A:52:LEU:HD11	1:A:60:ASN:HB3	1.82	0.60
2:B:1152:PHE:HB2	2:B:1163:GLN:NE2	2.16	0.60
3:C:236:LEU:HG	3:C:289:VAL:HA	1.83	0.60
7:G:169:VAL:O	7:G:216:HIS:N	2.33	0.60
8:H:15:VAL:HA	8:H:26:ILE:CD1	2.30	0.60
8:H:27:GLU:OE2	8:H:39:THR:HG23	2.01	0.60
9:I:27:ASN:ND2	9:I:39:LYS:HB2	2.14	0.60
12:L:29:TYR:O	12:L:38:LEU:HG	2.01	0.60
15:O:380:MET:H	15:O:394:VAL:HG23	1.64	0.60
15:O:623:LEU:HD13	15:O:668:SER:O	2.01	0.60
15:O:630:LEU:HD12	15:O:631:SER:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:655:SER:CB	16:P:244:ASN:CB	2.43	0.60
16:P:169:SER:OG	16:P:175:PRO:HD2	2.01	0.60
16:P:294:HIS:CB	20:T:48:DA:H62	2.06	0.60
16:P:488:LEU:C	16:P:488:LEU:HD23	2.25	0.60
1:A:469:LYS:CD	2:B:1070:ARG:HH11	2.01	0.60
1:A:552:GLU:O	1:A:555:LYS:HB2	2.01	0.60
1:A:665:PRO:O	1:A:666:VAL:CB	2.49	0.60
1:A:747:ILE:O	1:A:774:GLY:N	2.30	0.60
1:A:1286:ALA:HA	9:I:21:ASN:OD1	2.01	0.60
7:G:43:ILE:HG12	7:G:120:VAL:O	2.01	0.60
7:G:56:ASN:CG	7:G:59:GLN:HB3	2.26	0.60
15:O:180:ASN:OD1	15:O:181:ARG:N	2.34	0.60
15:O:274:ILE:CD1	15:O:284:VAL:HG11	2.30	0.60
15:O:314:GLN:HE22	15:O:331:LYS:CG	2.14	0.60
15:O:318:ILE:HD12	15:O:324:TRP:HA	1.83	0.60
15:O:325:SER:O	15:O:326:ILE:HD13	2.00	0.60
15:O:344:ILE:HD12	15:O:346:ASN:HB2	1.83	0.60
15:O:590:GLY:N	16:P:320:PHE:CE2	2.69	0.60
16:P:104:PHE:CE2	16:P:155:GLN:HB3	2.36	0.60
16:P:147:GLN:O	16:P:151:GLU:HB2	1.95	0.60
16:P:176:VAL:HG11	16:P:179:CYS:HB3	1.82	0.60
17:Q:385:ASN:HD22	17:Q:385:ASN:H	1.48	0.60
1:A:467:PHE:O	1:A:472:MET:HG2	2.02	0.60
1:A:786:TYR:CE2	1:A:817:PHE:CE2	2.89	0.60
2:B:110:ASN:OD1	2:B:110:ASN:N	2.32	0.60
2:B:202:LEU:HD21	2:B:499:HIS:HB3	1.83	0.60
7:G:148:LEU:HD12	7:G:153:PHE:O	2.00	0.60
13:M:76:TYR:HE1	14:N:57:LYS:HG2	1.65	0.60
14:N:56:ILE:HG23	14:N:137:PHE:HB2	1.84	0.60
15:O:304:ASP:OD2	15:O:363:ILE:HG13	2.00	0.60
15:O:603:ARG:NH2	16:P:268:PHE:CG	2.68	0.60
15:O:724:LEU:HD22	16:P:443:GLN:HG2	1.82	0.60
15:O:757:GLN:NE2	16:P:134:LYS:HD2	2.15	0.60
16:P:166:TYR:CD2	16:P:230:ILE:HD13	2.36	0.60
16:P:200:PRO:CB	16:P:203:TRP:H	2.14	0.60
16:P:246:GLU:O	16:P:285:THR:HA	2.00	0.60
16:P:330:TRP:CZ3	16:P:334:LEU:CD1	2.84	0.60
1:A:917:MET:HE1	2:B:1008:HIS:CE1	2.37	0.60
2:B:1006:ASN:OD1	2:B:1008:HIS:N	2.33	0.60
2:B:1175:THR:O	2:B:1179:PRO:CD	2.49	0.60
7:G:47:VAL:HG21	7:G:61:VAL:HG13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:100:THR:HG21	7:G:102:GLU:O	2.02	0.60
10:J:18:TRP:CZ2	10:J:22:LEU:HD11	2.36	0.60
14:N:95:ILE:CG1	14:N:96:GLU:H	2.09	0.60
15:O:655:SER:CB	16:P:244:ASN:CG	2.70	0.60
16:P:108:PHE:CD1	16:P:156:LEU:HB3	2.19	0.60
16:P:158:MET:C	16:P:192:TYR:CE1	2.77	0.60
16:P:238:HIS:HE1	16:P:289:ARG:NH2	1.99	0.60
16:P:369:TRP:CZ3	16:P:377:PHE:CD2	2.90	0.60
17:Q:144:VAL:HG12	17:Q:144:VAL:O	2.01	0.60
1:A:109:ARG:HB2	1:A:230:ARG:CG	2.28	0.60
1:A:406:LEU:HB2	1:A:416:ARG:HE	1.66	0.60
1:A:406:LEU:HD13	1:A:416:ARG:HG2	1.84	0.60
1:A:466:LEU:O	1:A:470:HIS:N	2.34	0.60
1:A:789:SER:O	1:A:789:SER:OG	2.17	0.60
1:A:1114:TYR:C	1:A:1116:GLN:N	2.52	0.60
2:B:369:ASP:OD2	2:B:591:LYS:NZ	2.34	0.60
2:B:427:GLN:HG2	2:B:449:VAL:HG13	1.84	0.60
2:B:501:ARG:NH2	2:B:546:ALA:O	2.34	0.60
5:E:5:ASN:HD21	5:E:51:GLY:HA3	1.66	0.60
13:M:62:TYR:HB3	13:M:100:VAL:CG2	2.29	0.60
14:N:111:VAL:HG23	14:N:120:LYS:CB	2.30	0.60
15:O:468:VAL:HG22	15:O:477:TYR:HB3	1.83	0.60
15:O:506:THR:HG22	15:O:540:LYS:O	2.00	0.60
15:O:725:VAL:HG22	16:P:449:GLN:O	1.96	0.60
16:P:488:LEU:O	16:P:491:PHE:O	2.19	0.60
1:A:252:PHE:HB2	1:A:312:SER:OG	2.02	0.60
1:A:772:LYS:CG	1:A:777:LEU:HD12	2.32	0.60
1:A:1463:ASP:HB2	1:A:1469:TRP:NE1	2.17	0.60
6:F:74:ILE:HG21	6:F:144:GLU:HG2	1.84	0.60
9:I:23:VAL:CG2	9:I:38:PRO:CG	2.75	0.60
9:I:28:VAL:C	9:I:37:TYR:HB2	2.27	0.60
15:O:195:ASN:O	15:O:196:TYR:HB3	2.01	0.60
15:O:217:ALA:O	15:O:229:ARG:NH2	2.34	0.60
15:O:275:GLU:HB3	15:O:285:MET:C	2.21	0.60
15:O:292:LEU:HD12	15:O:292:LEU:N	2.16	0.60
15:O:314:GLN:HB2	15:O:329:ILE:C	2.26	0.60
15:O:647:GLU:HG3	15:O:649:ILE:HG12	1.84	0.60
16:P:136:ILE:HD12	16:P:168:ALA:CB	2.29	0.60
16:P:201:LYS:HG3	16:P:202:SER:N	2.17	0.60
17:Q:266:SER:HB2	17:Q:268:LEU:HD12	1.84	0.60
1:A:242:LYS:HB3	1:A:254:THR:HB	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1584:LEU:HD23	1:A:1584:LEU:C	2.27	0.60
2:B:16:PHE:HE2	10:J:51:LEU:HG	1.66	0.60
2:B:114:SER:C	2:B:116:ALA:N	2.60	0.60
2:B:129:ARG:CZ	2:B:891:GLU:HG3	2.30	0.60
2:B:752:VAL:HB	2:B:920:ARG:NH2	2.08	0.60
5:E:12:LEU:HD21	5:E:58:MET:HE1	1.82	0.60
10:J:36:LEU:HB2	10:J:47:ARG:NH1	2.17	0.60
11:K:80:ILE:HG21	11:K:89:CYS:SG	2.40	0.60
15:O:14:UNK:CB	15:O:438:TRP:HE3	2.14	0.60
15:O:181:ARG:HD2	15:O:206:ALA:HB1	1.83	0.60
15:O:187:ILE:HG12	15:O:258:SER:OG	2.02	0.60
15:O:214:LEU:CD1	15:O:242:ILE:HD13	2.31	0.60
15:O:353:ASP:HA	17:Q:27:ILE:HG22	1.84	0.60
15:O:656:HIS:CB	15:O:747:LEU:O	2.43	0.60
15:O:656:HIS:CG	15:O:747:LEU:N	2.65	0.60
16:P:157:HIS:CE1	16:P:159:THR:CA	2.68	0.60
16:P:247:ILE:HD12	16:P:286:LEU:HD12	1.83	0.60
16:P:339:THR:O	16:P:339:THR:OG1	2.20	0.60
16:P:362:THR:CB	16:P:365:ASP:OD2	2.50	0.60
16:P:417:PHE:CZ	17:Q:270:PHE:CB	2.76	0.60
16:P:436:LEU:H	16:P:436:LEU:HD12	1.67	0.60
16:P:442:LEU:CD1	16:P:446:TYR:CE2	2.84	0.60
1:A:723:TYR:CD2	1:A:725:LEU:HD21	2.36	0.60
1:A:826:PHE:HB3	2:B:777:SER:OG	2.01	0.60
1:A:1447:GLN:HE21	1:A:1459:LYS:HA	1.67	0.60
2:B:397:THR:CG2	2:B:649:MET:HE1	2.32	0.60
2:B:656:LEU:CB	14:N:148:ILE:HD13	2.32	0.60
2:B:792:SER:CB	3:C:217:ALA:HB2	2.32	0.60
3:C:88:ASN:H	12:L:60:ARG:NE	1.99	0.60
3:C:211:GLY:HA3	3:C:219:PHE:CD1	2.37	0.60
5:E:12:LEU:CG	5:E:58:MET:HE1	2.32	0.60
7:G:75:ASN:OD1	7:G:76:LYS:HG2	2.01	0.60
7:G:95:LEU:HD13	7:G:95:LEU:H	1.67	0.60
14:N:43:ASP:O	14:N:49:LYS:HE2	2.02	0.60
14:N:46:LYS:HZ3	14:N:125:ALA:HB2	1.65	0.60
15:O:275:GLU:CG	15:O:285:MET:HG2	2.32	0.60
15:O:314:GLN:HB2	15:O:329:ILE:O	2.02	0.60
15:O:329:ILE:HG23	15:O:340:LYS:HB3	1.83	0.60
15:O:440:HIS:HE1	15:O:481:PHE:CE1	2.15	0.60
16:P:150:GLU:CD	16:P:150:GLU:C	2.70	0.60
16:P:157:HIS:HE1	16:P:159:THR:HB	1.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:281:ILE:O	16:P:281:ILE:HG12	2.02	0.60
16:P:284:LEU:CD1	16:P:302:ALA:C	2.73	0.60
1:A:29:ALA:HA	2:B:1129:ARG:NH2	2.16	0.60
1:A:385:LEU:HG	1:A:453:ILE:CD1	2.17	0.60
1:A:899:LYS:O	1:A:903:ILE:HG12	2.02	0.60
1:A:1225:ILE:HG23	1:A:1595:TYR:OH	2.01	0.60
2:B:74:PHE:CD2	2:B:342:PRO:O	2.54	0.60
2:B:299:ASP:HB3	2:B:302:LEU:HB3	1.83	0.60
2:B:307:GLU:HB2	9:I:7:LEU:CD1	2.29	0.60
2:B:321:GLN:N	2:B:325:GLN:OE1	2.35	0.60
3:C:136:LEU:HB2	3:C:204:LEU:HD11	1.83	0.60
7:G:45:LEU:CD1	7:G:118:CYS:HB2	2.32	0.60
11:K:41:GLU:CD	11:K:44:ARG:HH12	2.10	0.60
15:O:194:ARG:CA	15:O:197:ARG:CZ	2.64	0.60
15:O:275:GLU:HG2	15:O:285:MET:CG	2.31	0.60
15:O:326:ILE:CG1	15:O:344:ILE:CG2	2.74	0.60
15:O:692:THR:HA	15:O:747:LEU:HD13	1.83	0.60
15:O:704:LEU:HD12	16:P:183:LYS:HZ1	1.67	0.60
16:P:278:GLU:HG2	16:P:309:TYR:CE2	2.37	0.60
17:Q:354:LEU:HA	17:Q:359:MET:N	1.97	0.60
1:A:321:LYS:HB2	1:A:356:PHE:HE2	1.65	0.60
1:A:398:ASP:O	1:A:401:ASP:HB3	2.02	0.60
1:A:591:ARG:NH2	1:A:631:ASP:OD2	2.34	0.60
2:B:73:ILE:HD13	2:B:428:VAL:HB	1.84	0.60
2:B:938:PHE:HZ	3:C:227:TYR:CZ	2.20	0.60
5:E:28:TYR:CZ	5:E:78:LEU:HB2	2.37	0.60
7:G:96:SER:C	7:G:98:GLU:N	2.60	0.60
7:G:229:LEU:HD21	7:G:249:LEU:CD2	2.32	0.60
15:O:378:SER:HB3	15:O:397:LYS:CD	2.32	0.60
15:O:705:HIS:CE1	15:O:707:ASP:OD2	2.55	0.60
16:P:102:LEU:O	16:P:106:LYS:HG3	2.02	0.60
17:Q:4:VAL:HG21	17:Q:214:VAL:HG22	1.82	0.60
17:Q:277:ILE:CG1	17:Q:278:TYR:CD1	2.71	0.60
1:A:174:SER:CB	1:A:177:LEU:HD13	2.30	0.59
1:A:497:VAL:HG12	1:A:501:PHE:HB2	1.84	0.59
1:A:754:LYS:CG	1:A:784:SER:HB3	2.32	0.59
1:A:855:ARG:HH12	1:A:867:ASP:CA	2.15	0.59
1:A:1104:TYR:CE2	1:A:1117:SER:HB2	2.37	0.59
2:B:146:ASN:HB3	2:B:149:GLU:HB3	1.83	0.59
2:B:155:VAL:HG21	17:Q:354:LEU:HD22	1.84	0.59
2:B:317:TYR:HB3	2:B:320:LEU:CD1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:626:ILE:HA	2:B:642:LEU:HD23	1.83	0.59
2:B:817:ARG:HB3	2:B:819:ASP:CG	2.27	0.59
2:B:1000:LEU:CD1	2:B:1005:TYR:HB2	2.32	0.59
2:B:1097:ASP:OD2	2:B:1172:GLU:HB2	2.01	0.59
2:B:1114:GLN:H	2:B:1166:LYS:HE2	1.66	0.59
3:C:146:ALA:CB	3:C:151:THR:CB	2.73	0.59
5:E:22:MET:HE2	5:E:187:TYR:CD1	2.36	0.59
7:G:165:ASP:O	7:G:220:SER:HA	2.02	0.59
15:O:195:ASN:H	15:O:197:ARG:HH12	1.50	0.59
15:O:216:ILE:CA	15:O:234:THR:OG1	2.50	0.59
15:O:323:ASN:HA	15:O:348:HIS:HB3	1.84	0.59
15:O:324:TRP:CG	15:O:348:HIS:HB2	2.35	0.59
15:O:381:ILE:HG22	15:O:382:GLU:N	2.17	0.59
15:O:467:PHE:CD1	15:O:478:MET:HG2	2.37	0.59
15:O:704:LEU:HD12	16:P:183:LYS:NZ	2.17	0.59
15:O:708:VAL:O	15:O:708:VAL:HG12	2.01	0.59
15:O:725:VAL:HG13	15:O:725:VAL:O	2.00	0.59
16:P:103:LEU:CG	16:P:203:TRP:HZ3	2.14	0.59
16:P:165:LEU:HD23	16:P:165:LEU:O	2.02	0.59
16:P:222:PHE:H	16:P:225:GLN:CG	2.13	0.59
16:P:239:PHE:CE1	16:P:246:GLU:CG	2.76	0.59
16:P:352:ILE:C	16:P:355:VAL:HG23	2.27	0.59
17:Q:248:LYS:H	17:Q:298:GLN:HE22	1.47	0.59
17:Q:278:TYR:HB2	17:Q:308:PHE:HZ	1.67	0.59
17:Q:381:ARG:C	17:Q:383:PHE:H	2.07	0.59
2:B:37:LEU:H	2:B:37:LEU:HD12	1.67	0.59
2:B:71:LYS:CE	2:B:421:LEU:HB2	2.31	0.59
2:B:280:LEU:O	2:B:323:ARG:NH2	2.34	0.59
14:N:95:ILE:O	14:N:104:LEU:O	2.20	0.59
15:O:319:ASP:HB2	15:O:363:ILE:HG12	1.84	0.59
15:O:391:THR:HG21	15:O:393:VAL:HG13	1.84	0.59
16:P:259:GLN:HE21	16:P:259:GLN:C	2.06	0.59
16:P:334:LEU:O	16:P:338:LEU:CG	2.40	0.59
16:P:356:VAL:HG12	17:Q:211:ARG:HE	1.66	0.59
1:A:364:PRO:HD2	2:B:1180:PHE:CE1	2.38	0.59
1:A:539:GLU:OE1	1:A:539:GLU:N	2.28	0.59
1:A:1183:GLU:OE1	6:F:88:TYR:OH	2.12	0.59
1:A:1263:LEU:HB2	1:A:1496:SER:HB2	1.82	0.59
1:A:1290:TYR:CE1	1:A:1483:LEU:HD11	2.37	0.59
2:B:25:PHE:CE2	10:J:56:LEU:HD12	2.38	0.59
2:B:218:ILE:HG13	2:B:218:ILE:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:829:ASN:C	2:B:831:GLU:H	2.11	0.59
3:C:311:GLU:CD	3:C:312:GLU:H	2.10	0.59
6:F:79:ARG:HB3	6:F:146:TRP:CZ2	2.35	0.59
6:F:135:ARG:HG3	6:F:143:PHE:CD1	2.37	0.59
8:H:22:LYS:O	8:H:43:ASN:HA	2.03	0.59
14:N:78:THR:CB	14:N:89:ILE:HB	2.30	0.59
14:N:106:ASN:O	14:N:108:THR:N	2.35	0.59
17:Q:150:GLN:OE1	17:Q:150:GLN:HA	1.99	0.59
1:A:717:PRO:HB3	1:A:726:TRP:CZ3	2.37	0.59
1:A:920:PHE:HE1	1:A:930:LEU:HD22	1.62	0.59
1:A:1113:HIS:O	1:A:1114:TYR:O	2.19	0.59
2:B:63:LEU:HD23	2:B:66:LYS:HD2	1.85	0.59
2:B:1139:LYS:O	2:B:1143:THR:N	2.34	0.59
3:C:143:ASN:OD1	3:C:158:ASN:HB2	2.02	0.59
4:D:27:LEU:HD11	7:G:23:GLN:CB	2.20	0.59
6:F:112:GLU:OE2	6:F:123:LYS:HD2	2.03	0.59
9:I:3:VAL:HB	9:I:8:ILE:HG13	1.84	0.59
9:I:56:PHE:HB2	9:I:61:ARG:NH2	2.18	0.59
13:M:21:VAL:HG13	14:N:110:LEU:O	2.01	0.59
13:M:31:ARG:HH21	14:N:128:ASN:HD22	1.50	0.59
15:O:275:GLU:CG	15:O:285:MET:HG3	2.31	0.59
15:O:414:ILE:HB	15:O:425:GLY:N	2.17	0.59
15:O:421:ILE:HG22	15:O:422:ILE:N	2.16	0.59
16:P:284:LEU:HD22	16:P:302:ALA:HB2	1.83	0.59
16:P:353:VAL:O	16:P:356:VAL:CG2	2.37	0.59
17:Q:261:LEU:HD21	17:Q:264:SER:H	1.67	0.59
17:Q:283:ARG:C	17:Q:302:ARG:CB	2.74	0.59
17:Q:398:ASP:CG	17:Q:401:ILE:HD12	2.25	0.59
1:A:132:GLU:HA	1:A:135:LYS:HB2	1.84	0.59
1:A:237:GLY:O	1:A:267:LYS:HD3	2.02	0.59
2:B:986:PHE:HA	14:N:157:ARG:HH21	1.67	0.59
3:C:169:PHE:CG	3:C:184:VAL:HB	2.38	0.59
3:C:240:LYS:CA	3:C:244:ALA:HB2	2.33	0.59
5:E:54:GLN:HB2	5:E:57:MET:CB	2.32	0.59
5:E:172:GLU:O	5:E:213:ILE:HD13	2.02	0.59
6:F:73:ALA:HB2	7:G:94:PRO:HG2	1.82	0.59
7:G:140:GLN:O	7:G:214:LEU:HD21	1.97	0.59
9:I:23:VAL:HG21	9:I:38:PRO:CB	2.32	0.59
15:O:583:GLU:OE1	15:O:583:GLU:N	2.36	0.59
15:O:623:LEU:HB3	15:O:674:GLU:OE1	2.03	0.59
16:P:179:CYS:SG	16:P:255:LYS:NZ	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:284:LEU:HD11	16:P:305:ARG:NE	2.18	0.59
16:P:497:GLN:O	16:P:498:LEU:C	2.45	0.59
1:A:35:PRO:HA	1:A:390:LEU:CD1	2.32	0.59
1:A:217:LYS:HZ2	1:A:1604:GLU:HG2	1.67	0.59
1:A:406:LEU:HG	1:A:407:GLN:N	2.16	0.59
1:A:475:ARG:NH2	2:B:1061:LYS:HG3	2.17	0.59
1:A:637:PHE:C	2:B:1091:ARG:HH22	2.10	0.59
1:A:1123:VAL:HG22	1:A:1135:SER:OG	2.01	0.59
1:A:1300:ASN:O	1:A:1304:GLU:HG3	2.03	0.59
2:B:568:LEU:CD2	14:N:141:GLU:HB3	2.26	0.59
2:B:756:LEU:HD22	2:B:760:TYR:CE2	2.37	0.59
2:B:1002:LYS:CG	14:N:166:LEU:HD12	2.30	0.59
3:C:42:VAL:HB	11:K:138:LYS:HG3	1.84	0.59
7:G:35:SER:HB2	7:G:37:CYS:SG	2.42	0.59
8:H:38:LEU:HD11	8:H:123:MET:HG3	1.83	0.59
15:O:420:GLU:O	15:O:421:ILE:CG1	2.51	0.59
15:O:702:LEU:HD13	16:P:174:LEU:CA	2.31	0.59
15:O:740:ILE:HG12	16:P:267:TYR:OH	2.02	0.59
16:P:441:ASP:O	16:P:445:ARG:HG2	2.02	0.59
1:A:261:ILE:O	1:A:264:ASN:HB3	2.02	0.59
2:B:100:GLU:HG2	2:B:142:LYS:HB2	1.84	0.59
2:B:129:ARG:HG2	2:B:131:THR:HG23	1.85	0.59
2:B:156:ARG:NH2	2:B:450:LEU:HB3	2.18	0.59
2:B:717:TYR:O	2:B:721:MET:HG2	2.01	0.59
3:C:36:PHE:CZ	3:C:40:PHE:HB2	2.38	0.59
5:E:9:ILE:HG21	5:E:43:LYS:CG	2.28	0.59
5:E:58:MET:HE2	5:E:82:PHE:CE2	2.36	0.59
8:H:93:TYR:HE1	8:H:145:ARG:NH1	2.01	0.59
15:O:233:VAL:HG12	15:O:234:THR:N	2.18	0.59
15:O:568:ILE:C	15:O:570:ASP:H	2.10	0.59
16:P:211:TYR:O	16:P:214:ILE:HG22	2.03	0.59
16:P:385:PHE:CZ	17:Q:212:HIS:NE2	2.71	0.59
17:Q:390:ASN:O	17:Q:392:LEU:N	2.36	0.59
1:A:657:TYR:O	1:A:658:LEU:HD23	2.02	0.59
1:A:728:GLY:HA2	1:A:731:ILE:HD12	1.85	0.59
2:B:252:TYR:CE1	2:B:256:GLY:HA2	2.37	0.59
2:B:1194:ILE:H	2:B:1194:ILE:HD13	1.67	0.59
3:C:173:GLY:O	3:C:176:SER:HB3	2.02	0.59
7:G:162:ILE:CD1	7:G:217:TRP:HZ3	2.15	0.59
7:G:229:LEU:HD21	7:G:249:LEU:CD1	2.33	0.59
8:H:101:ALA:HB2	8:H:116:TYR:HE1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:38:LEU:HD12	12:L:38:LEU:C	2.28	0.59
13:M:16:GLN:HB3	13:M:90:LEU:O	2.03	0.59
15:O:262:GLY:C	15:O:263:ILE:HG13	2.27	0.59
15:O:414:ILE:HD13	15:O:434:ARG:NH1	2.18	0.59
15:O:422:ILE:CB	15:O:440:HIS:NE2	2.65	0.59
15:O:500:ILE:HG23	15:O:501:PRO:CD	2.32	0.59
15:O:714:PHE:HE2	15:O:734:LYS:HZ1	1.49	0.59
16:P:207:LEU:O	16:P:207:LEU:HD23	2.02	0.59
16:P:492:ALA:C	16:P:493:ILE:CD1	2.58	0.59
17:Q:278:TYR:HB2	17:Q:308:PHE:CZ	2.38	0.59
1:A:473:GLY:O	2:B:1070:ARG:NH2	2.35	0.59
1:A:616:LEU:HD11	1:A:620:ASN:HD22	1.68	0.59
1:A:721:LYS:HG2	8:H:94:ASP:C	2.28	0.59
1:A:842:TRP:CE3	1:A:910:LYS:HE3	2.37	0.59
1:A:1290:TYR:CG	1:A:1485:MET:HE3	2.38	0.59
5:E:47:CYS:HB3	5:E:51:GLY:C	2.28	0.59
15:O:202:ILE:N	15:O:202:ILE:CD1	2.63	0.59
15:O:270:GLN:NE2	15:O:339:ARG:HH22	2.01	0.59
15:O:318:ILE:O	15:O:324:TRP:HB2	2.03	0.59
15:O:408:ILE:HD11	15:O:464:LEU:HD22	1.84	0.59
15:O:537:PHE:HE1	15:O:552:LEU:HD11	1.66	0.59
16:P:209:ASN:HD22	16:P:211:TYR:HE2	1.46	0.59
17:Q:411:VAL:CG1	17:Q:412:ARG:N	2.65	0.59
1:A:99:ARG:HA	1:A:243:PHE:CD2	2.38	0.59
1:A:105:CYS:SG	1:A:236:CYS:HB3	2.42	0.59
1:A:109:ARG:O	1:A:234:ASP:HB3	2.03	0.59
1:A:606:ARG:NH2	11:K:98:GLU:OE2	2.36	0.59
1:A:612:LYS:H	2:B:913:ILE:HD11	1.68	0.59
1:A:680:LEU:HB2	1:A:820:TYR:CE2	2.37	0.59
1:A:951:ALA:O	1:A:952:LEU:HD12	2.02	0.59
2:B:186:GLU:C	2:B:188:ASP:H	2.11	0.59
5:E:16:PHE:CE2	5:E:20:LYS:HD3	2.37	0.59
10:J:48:ARG:NH2	10:J:49:MET:HE1	2.18	0.59
11:K:59:THR:HG22	11:K:111:THR:O	2.03	0.59
15:O:195:ASN:N	15:O:197:ARG:HH12	2.01	0.59
15:O:277:VAL:HG22	15:O:283:ASP:O	2.03	0.59
15:O:436:ILE:HD12	15:O:436:ILE:O	2.02	0.59
15:O:454:GLN:H	15:O:465:VAL:HG23	1.67	0.59
16:P:174:LEU:CB	16:P:175:PRO:HD3	2.32	0.59
16:P:247:ILE:HD11	16:P:286:LEU:HD12	1.84	0.59
1:A:1118:VAL:C	1:A:1120:TYR:H	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1559:ARG:HH22	5:E:200:ARG:HH11	1.50	0.58
3:C:128:ASP:HB2	3:C:175:GLN:HE22	1.68	0.58
8:H:108:SER:OG	8:H:111:LEU:N	2.21	0.58
13:M:44:LYS:HG2	13:M:49:ASP:OD1	2.03	0.58
15:O:301:GLN:O	15:O:320:ILE:HG23	2.03	0.58
15:O:670:ALA:HA	15:O:738:LYS:HZ3	1.67	0.58
16:P:247:ILE:CD1	16:P:286:LEU:HD13	2.33	0.58
16:P:402:MET:SD	16:P:410:ARG:CD	2.91	0.58
17:Q:380:SER:HB3	17:Q:438:PHE:CE1	2.37	0.58
17:Q:388:LYS:CE	17:Q:393:ILE:HB	2.33	0.58
1:A:81:LEU:HD12	1:A:358:ASP:C	2.19	0.58
1:A:99:ARG:HA	1:A:243:PHE:CE2	2.38	0.58
1:A:1101:THR:HG22	1:A:1120:TYR:CD1	2.38	0.58
1:A:1491:GLU:OE2	1:A:1494:ARG:NH2	2.36	0.58
2:B:138:LEU:HD23	2:B:155:VAL:CG1	2.33	0.58
2:B:155:VAL:HG21	17:Q:354:LEU:CD2	2.33	0.58
2:B:322:ASN:ND2	13:M:105:SER:HA	2.19	0.58
3:C:60:ASP:OD2	3:C:62:SER:N	2.30	0.58
3:C:260:GLU:HG2	3:C:262:SER:OG	2.02	0.58
4:D:28:PRO:CB	7:G:41:VAL:HB	2.32	0.58
5:E:90:VAL:HB	5:E:119:SER:OG	2.03	0.58
10:J:48:ARG:HG3	10:J:49:MET:N	2.17	0.58
11:K:53:ALA:HB1	11:K:62:SER:OG	2.03	0.58
13:M:12:ILE:HG23	13:M:88:ILE:CD1	2.30	0.58
13:M:60:LEU:CB	13:M:100:VAL:HG12	2.31	0.58
13:M:77:VAL:HB	14:N:58:PHE:CE2	2.38	0.58
14:N:144:LYS:O	14:N:145:ILE:HG13	2.02	0.58
15:O:309:PRO:HD2	15:O:365:TRP:CG	2.37	0.58
15:O:353:ASP:OD1	15:O:353:ASP:N	2.36	0.58
15:O:365:TRP:CZ2	15:O:407:ARG:CD	2.85	0.58
15:O:512:LEU:HD23	15:O:512:LEU:O	2.02	0.58
15:O:589:ILE:HG22	16:P:320:PHE:HD2	0.62	0.58
16:P:182:ILE:HD11	16:P:350:ARG:N	2.17	0.58
16:P:355:VAL:HG12	17:Q:215:THR:OG1	2.02	0.58
16:P:390:THR:O	16:P:390:THR:OG1	2.17	0.58
17:Q:143:THR:OG1	17:Q:144:VAL:N	2.24	0.58
17:Q:207:ASN:O	17:Q:211:ARG:N	2.19	0.58
1:A:28:SER:HG	1:A:78:HIS:CG	2.20	0.58
1:A:173:ILE:HD11	1:A:177:LEU:HB3	1.85	0.58
1:A:236:CYS:SG	1:A:238:MET:HG2	2.42	0.58
1:A:456:VAL:HG21	2:B:1184:TYR:CD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1241:PRO:HG3	1:A:1540:GLY:C	2.27	0.58
1:A:1451:ILE:CG1	1:A:1457:ILE:HG23	2.34	0.58
2:B:791:LYS:NZ	2:B:795:GLU:OE2	2.35	0.58
3:C:64:ALA:HB1	3:C:300:PHE:HZ	1.69	0.58
7:G:24:VAL:HG21	7:G:126:GLN:HE22	1.66	0.58
15:O:366:PHE:HD2	15:O:432:PRO:HB3	1.57	0.58
15:O:511:ILE:HD12	15:O:537:PHE:HA	1.85	0.58
15:O:727:PRO:HG3	16:P:265:GLU:OE1	2.01	0.58
16:P:110:PHE:CZ	16:P:199:LEU:HB2	2.37	0.58
16:P:209:ASN:HB2	16:P:211:TYR:CD2	2.38	0.58
16:P:227:TYR:CE2	16:P:304:LEU:HD22	2.38	0.58
16:P:360:LYS:HB2	16:P:360:LYS:NZ	2.16	0.58
16:P:402:MET:SD	16:P:406:GLN:O	2.52	0.58
17:Q:233:TYR:HA	17:Q:236:PHE:HB3	1.85	0.58
1:A:8:GLY:HA3	7:G:115:PHE:CE2	2.38	0.58
1:A:27:LEU:C	1:A:27:LEU:HD12	2.28	0.58
1:A:40:ASN:HB3	1:A:43:HIS:CD2	2.39	0.58
1:A:1336:GLN:NE2	1:A:1480:THR:O	2.32	0.58
2:B:184:LYS:HE3	2:B:735:HIS:CE1	2.39	0.58
2:B:225:ARG:NH2	2:B:268:GLU:OE1	2.35	0.58
2:B:756:LEU:HD22	2:B:760:TYR:HE2	1.68	0.58
2:B:1103:VAL:HB	2:B:1110:ILE:HG22	1.85	0.58
2:B:1182:LEU:CA	2:B:1185:LEU:HB2	2.27	0.58
3:C:94:ASP:OD2	12:L:60:ARG:NH1	2.35	0.58
3:C:258:ILE:HG12	3:C:265:ALA:HA	1.85	0.58
3:C:283:GLU:OE1	3:C:283:GLU:N	2.27	0.58
15:O:203:ILE:HG12	15:O:217:ALA:O	2.03	0.58
15:O:263:ILE:HG22	15:O:264:ILE:N	2.18	0.58
15:O:270:GLN:CD	15:O:339:ARG:HH22	2.11	0.58
15:O:384:ASP:CB	15:O:389:TRP:HB3	2.13	0.58
16:P:177:TYR:CE1	16:P:226:LEU:HD13	2.27	0.58
16:P:283:ASN:OD1	16:P:283:ASN:N	2.32	0.58
16:P:417:PHE:CE1	17:Q:258:LEU:HD12	2.28	0.58
17:Q:411:VAL:HG13	17:Q:412:ARG:N	2.17	0.58
1:A:419:ILE:C	1:A:419:ILE:HD12	2.29	0.58
1:A:494:GLU:CG	1:A:604:LYS:HB2	2.30	0.58
1:A:790:LYS:C	1:A:795:HIS:CG	2.81	0.58
2:B:576:THR:HG21	2:B:595:TRP:CD1	2.38	0.58
2:B:740:LYS:HA	2:B:804:TYR:O	2.04	0.58
3:C:116:VAL:HG21	3:C:125:LYS:HG3	1.84	0.58
15:O:220:THR:HG1	15:O:228:ASN:C	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:624:GLN:CA	15:O:678:LEU:HD21	2.31	0.58
15:O:757:GLN:HE21	16:P:134:LYS:HD2	1.68	0.58
17:Q:155:GLN:HG2	17:Q:156:LYS:N	2.14	0.58
17:Q:398:ASP:O	17:Q:399:ILE:C	2.47	0.58
1:A:91:PHE:HA	1:A:94:LEU:CD2	2.34	0.58
1:A:257:ASN:O	1:A:260:GLN:N	2.36	0.58
1:A:673:HIS:CD2	2:B:783:MET:HE1	2.39	0.58
1:A:690:GLU:HG2	11:K:81:MET:HE3	1.85	0.58
1:A:1268:ASP:OD1	1:A:1269:LYS:NZ	2.31	0.58
1:A:1271:ILE:HG23	9:I:50:THR:HG22	1.84	0.58
2:B:104:ILE:HG12	2:B:137:LEU:CD1	2.33	0.58
2:B:626:ILE:HG23	2:B:642:LEU:CD2	2.33	0.58
2:B:795:GLU:HB3	3:C:216:HIS:NE2	2.19	0.58
3:C:240:LYS:HB2	3:C:261:GLY:O	2.03	0.58
5:E:86:PRO:O	5:E:115:ASN:N	2.29	0.58
15:O:323:ASN:CG	17:Q:155:GLN:HG3	2.23	0.58
15:O:660:LYS:CA	15:O:663:LEU:HB2	2.28	0.58
16:P:132:VAL:HG11	16:P:171:HIS:CB	2.34	0.58
16:P:211:TYR:C	16:P:215:LEU:HD21	2.28	0.58
16:P:417:PHE:CZ	17:Q:270:PHE:HB2	2.38	0.58
17:Q:134:PRO:O	17:Q:135:GLU:O	2.20	0.58
17:Q:352:TRP:CZ3	17:Q:357:PRO:CG	2.82	0.58
1:A:76:GLN:HE22	2:B:1183:LYS:HB2	1.68	0.58
1:A:1241:PRO:HB3	1:A:1516:LYS:HE3	1.86	0.58
2:B:218:ILE:HG22	2:B:232:TYR:CD1	2.39	0.58
2:B:1154:ASP:O	2:B:1157:GLN:N	2.37	0.58
5:E:94:LYS:HB2	5:E:123:LEU:HD11	1.83	0.58
11:K:60:SER:HA	11:K:105:ILE:O	2.03	0.58
15:O:222:GLN:H	15:O:225:LEU:CD2	2.16	0.58
15:O:294:PHE:HD2	15:O:300:LEU:CD2	2.16	0.58
15:O:369:PHE:O	15:O:370:GLN:HB2	2.04	0.58
15:O:665:ASN:C	15:O:667:ASP:N	2.54	0.58
16:P:123:MET:O	16:P:124:ARG:HG2	2.03	0.58
16:P:402:MET:CE	16:P:407:LYS:HG3	2.06	0.58
17:Q:380:SER:CB	17:Q:438:PHE:CE1	2.85	0.58
1:A:720:PHE:HE2	8:H:141:TYR:HE2	1.50	0.58
2:B:190:ILE:HD11	2:B:496:PHE:CE2	2.39	0.58
8:H:108:SER:N	8:H:111:LEU:HB2	2.19	0.58
13:M:39:ASP:O	13:M:53:LEU:HD12	2.04	0.58
15:O:175:ASP:HA	17:Q:196:GLU:O	2.02	0.58
15:O:554:ASN:O	15:O:555:THR:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:156:LEU:HD21	16:P:161:THR:OG1	2.04	0.58
16:P:238:HIS:NE2	16:P:289:ARG:CZ	2.66	0.58
16:P:417:PHE:CE1	17:Q:258:LEU:CG	2.80	0.58
1:A:89:LEU:HD23	1:A:90:PHE:CE1	2.39	0.58
1:A:262:THR:HA	1:A:265:ARG:HG3	1.86	0.58
1:A:328:PHE:O	1:A:332:GLN:HB2	2.04	0.58
1:A:469:LYS:HA	2:B:1070:ARG:HH12	1.68	0.58
1:A:499:PRO:HD3	1:A:608:LEU:O	2.03	0.58
1:A:592:GLN:NE2	1:A:592:GLN:HA	2.19	0.58
2:B:526:GLY:HA3	2:B:651:ARG:CZ	2.34	0.58
2:B:654:ARG:NH2	2:B:659:ASP:OD1	2.34	0.58
2:B:738:ASP:OD2	2:B:741:LEU:HD21	2.02	0.58
2:B:1102:SER:HB3	2:B:1113:THR:HG21	1.86	0.58
5:E:28:TYR:HD1	5:E:63:ASN:C	2.11	0.58
5:E:55:ARG:HB3	5:E:82:PHE:HB3	1.85	0.58
7:G:69:LEU:HG	7:G:81:VAL:HG21	1.86	0.58
9:I:8:ILE:CG2	9:I:37:TYR:CE2	2.82	0.58
15:O:345:ASP:OD1	15:O:346:ASN:N	2.37	0.58
15:O:366:PHE:HZ	15:O:426:ALA:O	1.87	0.58
15:O:568:ILE:HG23	15:O:570:ASP:CG	2.28	0.58
16:P:360:LYS:O	16:P:360:LYS:HG2	2.03	0.58
16:P:419:LEU:HD22	17:Q:237:ALA:CB	2.08	0.58
16:P:497:GLN:HA	16:P:500:ASP:HB3	1.86	0.58
17:Q:21:TYR:HE2	17:Q:124:GLU:OE2	1.86	0.58
17:Q:133:LYS:CG	17:Q:286:GLN:CG	2.79	0.58
17:Q:208:TYR:CA	17:Q:211:ARG:CG	2.79	0.58
1:A:471:MET:HA	1:A:474:LYS:HE2	1.86	0.58
1:A:822:THR:HG23	2:B:778:TYR:CZ	2.39	0.58
2:B:164:MET:HB2	2:B:194:PHE:HE1	1.69	0.58
2:B:180:LEU:HD21	2:B:186:GLU:O	2.03	0.58
2:B:438:ILE:HD13	2:B:445:TYR:CB	2.33	0.58
2:B:1141:LEU:HD12	2:B:1141:LEU:O	2.03	0.58
5:E:4:GLU:OE2	5:E:11:ARG:NH2	2.30	0.58
6:F:144:GLU:HB3	6:F:146:TRP:NE1	2.18	0.58
7:G:140:GLN:NE2	7:G:225:ILE:HG13	2.19	0.58
8:H:15:VAL:HG13	8:H:26:ILE:HD11	1.85	0.58
9:I:17:LEU:HD12	9:I:17:LEU:O	2.04	0.58
9:I:27:ASN:CB	9:I:39:LYS:CB	2.74	0.58
15:O:329:ILE:HB	15:O:330:PRO:HD2	1.85	0.58
15:O:376:ASP:OD1	15:O:379:LYS:O	2.22	0.58
15:O:436:ILE:HG21	17:Q:141:TRP:CE2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:686:TYR:HB3	15:O:692:THR:CG2	2.33	0.58
15:O:718:LEU:CD2	15:O:734:LYS:HE2	2.34	0.58
15:O:727:PRO:HD2	16:P:264:PRO:HD2	1.85	0.58
16:P:215:LEU:CB	16:P:216:GLU:OE1	2.50	0.58
16:P:284:LEU:HD11	16:P:305:ARG:HH11	1.65	0.58
16:P:390:THR:HG1	16:P:399:SER:HG	1.48	0.58
1:A:512:THR:HG21	1:A:514:TYR:CZ	2.39	0.57
1:A:855:ARG:NH1	1:A:867:ASP:HA	2.19	0.57
2:B:117:VAL:CG2	17:Q:276:GLN:CG	2.36	0.57
7:G:157:ILE:HG21	7:G:249:LEU:HG	1.86	0.57
15:O:197:ARG:O	15:O:199:GLY:N	2.38	0.57
15:O:329:ILE:CG2	15:O:340:LYS:HB3	2.34	0.57
15:O:357:LEU:CG	15:O:377:ARG:NE	2.66	0.57
15:O:422:ILE:O	15:O:439:LYS:CA	2.52	0.57
15:O:424:VAL:HG23	15:O:437:SER:HG	1.67	0.57
16:P:419:LEU:HD12	16:P:420:ASP:CG	2.23	0.57
17:Q:277:ILE:O	17:Q:278:TYR:CE1	2.49	0.57
1:A:11:ILE:HA	2:B:1192:MET:O	2.05	0.57
1:A:384:GLN:O	1:A:387:SER:OG	2.18	0.57
1:A:416:ARG:CA	1:A:419:ILE:HG12	2.35	0.57
1:A:747:ILE:CD1	1:A:797:LEU:HD23	2.33	0.57
1:A:1527:GLN:HA	1:A:1530:TRP:CD2	2.39	0.57
2:B:317:TYR:CB	2:B:320:LEU:HD12	2.34	0.57
2:B:331:GLY:O	2:B:335:ARG:HB2	2.04	0.57
2:B:1012:PRO:HG3	3:C:277:ARG:HH12	1.69	0.57
9:I:2:SER:OG	9:I:9:PHE:HB2	2.04	0.57
15:O:18:UNK:CB	17:Q:252:GLY:O	2.52	0.57
15:O:574:TRP:CZ3	16:P:484:ALA:HB1	2.39	0.57
17:Q:186:LEU:HD12	17:Q:187:TYR:N	2.19	0.57
17:Q:383:PHE:C	17:Q:388:LYS:HA	2.29	0.57
2:B:155:VAL:CG2	17:Q:354:LEU:HD22	2.34	0.57
2:B:626:ILE:HA	2:B:642:LEU:CD2	2.33	0.57
2:B:656:LEU:HB3	14:N:148:ILE:HD13	1.86	0.57
2:B:683:ASN:N	14:N:154:ARG:HH22	2.02	0.57
5:E:13:TRP:CE3	5:E:39:LEU:HD13	2.40	0.57
11:K:48:LYS:O	11:K:63:PHE:HA	2.04	0.57
15:O:301:GLN:HG2	15:O:321:LYS:HZ1	1.69	0.57
15:O:392:GLU:HG2	15:O:392:GLU:O	2.03	0.57
15:O:424:VAL:HG23	15:O:424:VAL:O	2.03	0.57
16:P:127:LYS:HB3	16:P:131:HIS:CE1	2.39	0.57
16:P:238:HIS:CE1	16:P:289:ARG:NE	2.71	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:LEU:HB2	1:A:72:CYS:CA	2.34	0.57
1:A:878:ARG:O	1:A:881:GLU:HB3	2.05	0.57
2:B:74:PHE:C	2:B:76:GLY:H	2.12	0.57
2:B:817:ARG:HB3	2:B:819:ASP:OD1	2.04	0.57
5:E:81:GLU:HB2	5:E:96:PHE:CZ	2.39	0.57
7:G:74:ASN:OD1	7:G:76:LYS:N	2.35	0.57
7:G:97:LYS:HZ3	7:G:98:GLU:C	2.12	0.57
7:G:226:ASP:OD1	7:G:227:GLY:N	2.36	0.57
13:M:75:GLN:HE21	14:N:64:ILE:HG12	1.69	0.57
15:O:186:TYR:HA	15:O:201:GLU:HB3	1.85	0.57
15:O:347:LEU:HA	17:Q:155:GLN:H	1.68	0.57
15:O:350:THR:O	15:O:352:PHE:CE1	2.58	0.57
15:O:362:ARG:NH1	15:O:364:GLU:HB2	2.20	0.57
15:O:725:VAL:CG2	16:P:449:GLN:HG3	2.35	0.57
15:O:734:LYS:CD	15:O:737:VAL:HG11	2.34	0.57
15:O:771:ILE:HD13	16:P:105:LEU:HD22	1.85	0.57
16:P:100:ALA:CB	16:P:211:TYR:CZ	2.85	0.57
16:P:260:CYS:O	16:P:262:LEU:N	2.30	0.57
16:P:294:HIS:CD2	20:T:48:DA:C5	2.90	0.57
16:P:354:LYS:O	16:P:366:TYR:CZ	2.55	0.57
16:P:496:GLU:N	16:P:496:GLU:OE1	2.35	0.57
17:Q:204:GLU:O	17:Q:206:ARG:HG2	2.04	0.57
17:Q:211:ARG:HG3	17:Q:212:HIS:H	1.69	0.57
17:Q:277:ILE:HD12	17:Q:278:TYR:CE1	2.33	0.57
17:Q:302:ARG:NH2	17:Q:303:THR:HG21	2.16	0.57
1:A:209:THR:OG1	1:A:212:VAL:HG23	2.04	0.57
1:A:641:GLU:CG	6:F:99:LEU:HD13	2.35	0.57
1:A:885:ASP:OD2	1:A:888:LYS:HG3	2.05	0.57
2:B:91:LEU:C	2:B:93:ASN:H	2.12	0.57
2:B:552:SER:HG	2:B:648:ARG:N	2.00	0.57
2:B:614:GLU:HG3	2:B:615:GLY:N	2.19	0.57
2:B:817:ARG:CB	2:B:819:ASP:OD2	2.52	0.57
3:C:240:LYS:HE3	3:C:262:SER:HA	1.86	0.57
8:H:80:ARG:NH2	8:H:83:GLN:OE1	2.36	0.57
14:N:80:MET:HE2	14:N:82:ILE:CD1	2.16	0.57
14:N:135:LYS:HE3	14:N:137:PHE:HZ	1.67	0.57
15:O:347:LEU:CG	17:Q:151:PRO:O	2.52	0.57
15:O:422:ILE:HG12	15:O:440:HIS:O	2.04	0.57
15:O:491:SER:OG	15:O:492:LEU:N	2.37	0.57
15:O:616:SER:CA	15:O:618:ASP:H	2.14	0.57
15:O:653:SER:HB2	15:O:656:HIS:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:790:LYS:O	1:A:795:HIS:HB2	2.04	0.57
1:A:1115:LYS:CA	5:E:152:LYS:NZ	2.66	0.57
2:B:73:ILE:HB	2:B:425:ILE:HD12	1.87	0.57
2:B:95:LEU:HB2	2:B:440:PHE:CD2	2.40	0.57
2:B:786:ALA:HB1	2:B:928:SER:HB3	1.84	0.57
2:B:950:ASN:OD1	2:B:952:HIS:ND1	2.34	0.57
3:C:120:LEU:C	3:C:120:LEU:HD12	2.28	0.57
3:C:151:THR:HG22	3:C:155:GLU:CD	2.30	0.57
7:G:63:LYS:HA	7:G:67:ASN:ND2	2.19	0.57
8:H:63:LEU:HG	8:H:141:TYR:CE2	2.40	0.57
14:N:45:LYS:CB	14:N:48:ALA:HB3	2.34	0.57
14:N:135:LYS:HE3	14:N:137:PHE:CZ	2.38	0.57
15:O:529:GLU:HB2	15:O:531:PHE:HE2	1.68	0.57
15:O:611:ILE:HG12	15:O:731:LEU:CD2	2.34	0.57
16:P:122:GLU:C	16:P:122:GLU:CD	2.72	0.57
17:Q:283:ARG:O	17:Q:302:ARG:NE	2.25	0.57
1:A:1057:ILE:H	1:A:1057:ILE:HD12	1.70	0.57
2:B:638:PRO:O	2:B:641:TYR:OH	2.21	0.57
2:B:740:LYS:HD3	2:B:742:TYR:OH	2.05	0.57
2:B:843:ASP:OD2	12:L:29:TYR:OH	2.20	0.57
2:B:1179:PRO:O	2:B:1183:LYS:HG2	2.05	0.57
5:E:48:ASP:OD1	5:E:52:ARG:N	2.37	0.57
8:H:44:VAL:HB	8:H:48:PRO:HA	1.87	0.57
9:I:28:VAL:CG2	9:I:38:PRO:CD	2.79	0.57
11:K:47:ILE:HD11	11:K:63:PHE:CD2	2.39	0.57
15:O:9:UNK:O	15:O:10:UNK:C	2.46	0.57
15:O:620:ASP:HA	15:O:674:GLU:CD	2.29	0.57
16:P:137:TRP:HE1	16:P:141:LEU:HD21	1.70	0.57
16:P:246:GLU:HG2	16:P:286:LEU:H	1.70	0.57
16:P:385:PHE:HZ	17:Q:212:HIS:NE2	2.03	0.57
16:P:387:PRO:C	16:P:389:GLN:H	2.12	0.57
17:Q:290:TYR:N	17:Q:290:TYR:HD1	2.02	0.57
1:A:18:ILE:HG22	1:A:19:LEU:O	2.04	0.57
1:A:67:LEU:CA	1:A:72:CYS:HB2	2.33	0.57
2:B:1153:ILE:HG12	2:B:1157:GLN:HA	1.85	0.57
7:G:57:PRO:O	7:G:61:VAL:HG23	2.04	0.57
10:J:10:CYS:SG	10:J:11:GLY:N	2.78	0.57
12:L:30:ILE:O	12:L:56:LEU:HD23	2.05	0.57
13:M:43:LYS:HD2	14:N:29:PHE:HE1	1.68	0.57
15:O:597:LYS:CE	16:P:325:GLN:OE1	2.53	0.57
15:O:611:ILE:HD13	15:O:731:LEU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:177:TYR:CE1	16:P:226:LEU:HD11	2.34	0.57
16:P:414:TYR:CD1	17:Q:241:ARG:HD3	2.40	0.57
16:P:494:SER:C	16:P:496:GLU:N	2.42	0.57
17:Q:356:PRO:CG	17:Q:357:PRO:HD2	2.19	0.57
1:A:257:ASN:OD1	1:A:258:GLU:N	2.38	0.57
1:A:381:SER:CB	1:A:453:ILE:HB	2.35	0.57
1:A:821:ILE:CG2	2:B:778:TYR:HA	2.34	0.57
1:A:1137:SER:HB2	5:E:205:SER:O	2.05	0.57
1:A:1658:ALA:O	7:G:104:LEU:HD12	2.03	0.57
2:B:71:LYS:HE3	2:B:418:ASP:O	2.04	0.57
2:B:103:SER:O	2:B:137:LEU:HD12	2.04	0.57
2:B:737:SER:CB	2:B:806:THR:HG21	2.22	0.57
2:B:882:ILE:HG23	2:B:903:ILE:HD11	1.86	0.57
3:C:240:LYS:HA	3:C:244:ALA:HB2	1.87	0.57
4:D:16:LEU:HD12	4:D:16:LEU:C	2.28	0.57
4:D:31:VAL:HG11	7:G:123:TYR:HE2	1.69	0.57
7:G:73:TYR:HA	7:G:79:GLY:O	2.05	0.57
15:O:301:GLN:CB	15:O:321:LYS:HZ3	2.15	0.57
15:O:314:GLN:HB3	15:O:329:ILE:HD11	1.60	0.57
15:O:360:TRP:C	15:O:361:LYS:HG3	2.30	0.57
15:O:436:ILE:HD12	15:O:436:ILE:C	2.29	0.57
15:O:583:GLU:OE1	15:O:583:GLU:C	2.48	0.57
15:O:620:ASP:OD2	15:O:674:GLU:HG2	1.99	0.57
16:P:408:ILE:HG22	16:P:412:LYS:HE3	1.87	0.57
17:Q:304:HIS:O	17:Q:305:THR:C	2.47	0.57
1:A:241:PRO:CB	1:A:253:GLU:HG3	2.34	0.57
1:A:393:SER:OG	1:A:430:ILE:HD11	2.04	0.57
1:A:594:THR:HG21	2:B:1075:GLU:HA	1.87	0.57
1:A:771:PHE:CZ	1:A:793:ILE:HD13	2.39	0.57
1:A:1139:ASN:ND2	5:E:204:THR:O	2.37	0.57
1:A:1243:TRP:CH2	1:A:1537:ASP:HA	2.40	0.57
2:B:495:ARG:NH1	2:B:723:LYS:HE3	2.20	0.57
3:C:197:ARG:HG2	10:J:61:LEU:HD22	1.87	0.57
3:C:319:ARG:HD3	11:K:132:GLU:OE2	2.05	0.57
8:H:107:VAL:HB	8:H:111:LEU:CB	2.34	0.57
9:I:8:ILE:HG23	9:I:17:LEU:CD1	2.35	0.57
13:M:10:ILE:H	14:N:73:ASP:CB	2.17	0.57
14:N:33:LYS:O	14:N:115:SER:HB3	2.04	0.57
15:O:473:HIS:C	15:O:504:THR:HG23	2.30	0.57
15:O:506:THR:CG2	15:O:540:LYS:HG2	2.34	0.57
15:O:536:ASP:HB2	15:O:549:TYR:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:596:ILE:HA	16:P:272:GLN:NE2	2.20	0.57
15:O:611:ILE:CD1	15:O:731:LEU:HG	2.35	0.57
16:P:195:ALA:HB1	16:P:216:GLU:CD	2.30	0.57
16:P:239:PHE:C	16:P:239:PHE:CD1	2.82	0.57
16:P:341:ARG:HH11	16:P:445:ARG:NH2	1.93	0.57
17:Q:133:LYS:HB2	17:Q:286:GLN:CG	2.34	0.57
17:Q:380:SER:OG	17:Q:384:VAL:CG1	2.52	0.57
1:A:52:LEU:C	1:A:63:SER:H	2.11	0.56
1:A:471:MET:O	1:A:474:LYS:HE3	2.05	0.56
1:A:880:GLN:NE2	2:B:633:THR:O	2.35	0.56
2:B:448:ARG:O	2:B:452:ARG:HG3	2.05	0.56
2:B:611:TRP:CB	2:B:617:THR:HG21	2.32	0.56
2:B:709:PHE:HE2	2:B:992:PRO:HG3	1.70	0.56
3:C:197:ARG:NH2	10:J:61:LEU:HD13	2.20	0.56
9:I:10:CYS:SG	9:I:30:CYS:HB2	2.45	0.56
13:M:38:PHE:HB2	14:N:119:LEU:HB2	1.87	0.56
13:M:65:TYR:C	13:M:96:LEU:HD23	2.30	0.56
14:N:128:ASN:O	14:N:130:PRO:HD3	2.04	0.56
16:P:115:GLN:OE1	16:P:161:THR:HG22	2.04	0.56
16:P:219:ILE:CG1	16:P:220:SER:H	2.18	0.56
17:Q:302:ARG:CZ	17:Q:303:THR:CG2	2.82	0.56
1:A:38:LEU:HD21	1:A:42:GLY:HA2	1.87	0.56
1:A:58:LEU:HB2	1:A:60:ASN:HD22	1.67	0.56
1:A:262:THR:HA	1:A:265:ARG:HG2	1.87	0.56
1:A:908:VAL:O	1:A:912:VAL:HG22	2.04	0.56
1:A:1074:TYR:O	1:A:1078:LYS:HG2	2.04	0.56
1:A:1264:SER:OG	1:A:1494:ARG:HA	2.05	0.56
2:B:73:ILE:HD13	2:B:428:VAL:CG1	2.34	0.56
2:B:887:LEU:O	12:L:55:ILE:HA	2.03	0.56
2:B:1132:SER:CB	2:B:1163:GLN:HB3	2.29	0.56
3:C:164:ALA:O	3:C:186:PRO:HG2	2.04	0.56
3:C:246:ARG:HH11	3:C:246:ARG:HG3	1.70	0.56
5:E:22:MET:HA	5:E:187:TYR:CZ	2.39	0.56
5:E:71:LYS:HG3	5:E:72:PHE:CE2	2.41	0.56
9:I:28:VAL:CG2	9:I:38:PRO:HD3	2.05	0.56
13:M:40:LEU:HB3	14:N:32:CYS:SG	2.44	0.56
15:O:185:GLN:HB2	15:O:187:ILE:HD11	1.86	0.56
15:O:273:ARG:NH1	15:O:274:ILE:O	2.38	0.56
15:O:299:ASP:CG	17:Q:159:TYR:HD2	2.13	0.56
16:P:103:LEU:CG	16:P:203:TRP:CZ3	2.87	0.56
16:P:137:TRP:HA	16:P:140:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:212:VAL:HA	16:P:215:LEU:CD2	2.21	0.56
1:A:113:VAL:CG1	1:A:178:LEU:HB3	2.34	0.56
1:A:365:THR:O	1:A:369:LEU:N	2.38	0.56
1:A:1082:PRO:O	1:A:1085:LEU:HG	2.06	0.56
1:A:1175:MET:HA	1:A:1178:LEU:CD1	2.36	0.56
1:A:1463:ASP:HB2	1:A:1469:TRP:CD1	2.40	0.56
2:B:557:ASP:CB	2:B:621:PRO:HD3	2.33	0.56
2:B:699:ILE:O	2:B:703:LEU:HG	2.04	0.56
2:B:798:PHE:O	2:B:911:PRO:HG2	2.06	0.56
2:B:815:ARG:CZ	2:B:818:GLY:N	2.66	0.56
2:B:874:TYR:CZ	2:B:876:SER:HB3	2.40	0.56
2:B:1084:THR:HG1	2:B:1087:LEU:HB2	1.70	0.56
2:B:1102:SER:C	2:B:1113:THR:HG21	2.30	0.56
3:C:116:VAL:HG22	3:C:125:LYS:HG3	1.85	0.56
3:C:147:PRO:HB2	3:C:148:LYS:HG3	1.87	0.56
7:G:26:ASN:ND2	7:G:36:ASN:O	2.38	0.56
8:H:110:ASP:OD2	8:H:128:ASN:ND2	2.38	0.56
9:I:56:PHE:HB2	9:I:61:ARG:HH21	1.70	0.56
14:N:35:LEU:HB2	14:N:114:GLU:C	2.30	0.56
14:N:56:ILE:HG23	14:N:137:PHE:CB	2.35	0.56
15:O:200:THR:CB	15:O:218:VAL:HG13	2.34	0.56
15:O:230:HIS:HB3	15:O:280:ARG:HH22	1.70	0.56
15:O:294:PHE:CD2	15:O:300:LEU:CD2	2.88	0.56
15:O:294:PHE:HD2	15:O:300:LEU:HD23	1.69	0.56
15:O:300:LEU:HD12	15:O:300:LEU:C	2.31	0.56
15:O:312:LEU:C	15:O:312:LEU:HD22	2.31	0.56
15:O:368:HIS:ND1	15:O:368:HIS:O	2.38	0.56
15:O:390:GLN:CB	17:Q:151:PRO:HG2	2.32	0.56
15:O:431:ASP:OD2	15:O:433:VAL:N	2.38	0.56
15:O:440:HIS:CE1	15:O:481:PHE:HZ	2.02	0.56
15:O:533:LEU:C	15:O:533:LEU:HD12	2.31	0.56
15:O:721:CYS:O	15:O:724:LEU:HD23	1.97	0.56
16:P:118:TRP:CZ2	16:P:189:LYS:CB	2.87	0.56
16:P:135:ILE:O	16:P:139:LYS:HG3	2.05	0.56
16:P:157:HIS:HE1	16:P:159:THR:CB	2.13	0.56
16:P:212:VAL:O	16:P:215:LEU:CG	2.54	0.56
16:P:495:LYS:O	16:P:495:LYS:HG2	2.05	0.56
1:A:1183:GLU:OE2	1:A:1188:ILE:HD11	2.06	0.56
2:B:415:GLU:HG2	2:B:472:SER:HB2	1.88	0.56
2:B:921:HIS:NE2	2:B:962:MET:HA	2.21	0.56
2:B:1182:LEU:HD12	2:B:1185:LEU:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:78:VAL:HA	3:C:209:ILE:O	2.05	0.56
6:F:103:MET:HE1	7:G:113:PHE:CE1	2.39	0.56
8:H:103:LYS:HE3	8:H:115:TYR:CD2	2.40	0.56
15:O:604:ILE:HG23	15:O:732:LEU:HD23	1.88	0.56
17:Q:177:LEU:HD11	17:Q:188:PHE:HD2	1.69	0.56
1:A:113:VAL:HG11	1:A:178:LEU:HB3	1.88	0.56
1:A:729:LYS:HE3	8:H:120:GLY:HA3	1.88	0.56
1:A:864:LEU:HD11	1:A:878:ARG:CD	2.20	0.56
1:A:920:PHE:C	1:A:922:CYS:N	2.48	0.56
1:A:1241:PRO:HB3	1:A:1516:LYS:NZ	2.21	0.56
1:A:1289:SER:HA	1:A:1474:LEU:O	2.06	0.56
1:A:1458:THR:HG21	1:A:1475:GLU:CG	2.36	0.56
2:B:563:SER:HA	13:M:73:SER:HB3	1.87	0.56
14:N:96:GLU:O	14:N:105:SER:HB2	2.05	0.56
15:O:357:LEU:CB	15:O:377:ARG:HH21	2.18	0.56
16:P:151:GLU:CD	16:P:153:LYS:H	2.11	0.56
16:P:203:TRP:CA	16:P:206:GLN:HG2	2.36	0.56
17:Q:152:ILE:O	17:Q:152:ILE:HG22	2.04	0.56
17:Q:204:GLU:OE1	17:Q:205:VAL:N	2.33	0.56
17:Q:302:ARG:HG3	17:Q:303:THR:CG2	2.35	0.56
1:A:15:ASP:OD1	1:A:1631:ARG:HB2	2.05	0.56
1:A:56:ALA:HB3	1:A:69:GLU:N	2.20	0.56
1:A:1262:LEU:HA	1:A:1497:ILE:HA	1.88	0.56
1:A:1276:THR:OG1	9:I:45:LEU:HB2	2.06	0.56
2:B:53:THR:HB	2:B:169:ARG:NH2	2.21	0.56
5:E:170:LEU:O	5:E:170:LEU:HD12	2.06	0.56
13:M:38:PHE:HB3	13:M:53:LEU:HD21	1.88	0.56
15:O:188:GLN:HB2	15:O:199:GLY:HA2	0.62	0.56
15:O:303:VAL:CG1	15:O:361:LYS:H	2.18	0.56
15:O:359:SER:HA	15:O:361:LYS:NZ	2.21	0.56
15:O:506:THR:HG22	15:O:540:LYS:C	2.30	0.56
15:O:658:LYS:C	15:O:659:LEU:CG	2.79	0.56
16:P:227:TYR:HD2	16:P:301:HIS:CE1	2.23	0.56
16:P:246:GLU:CG	16:P:286:LEU:CB	2.82	0.56
1:A:472:MET:O	2:B:1076:ARG:HD3	2.06	0.56
1:A:588:LEU:CD2	1:A:600:MET:HE2	2.36	0.56
1:A:1264:SER:HB3	1:A:1493:CYS:C	2.30	0.56
1:A:1292:ILE:HD12	1:A:1472:PHE:CE2	2.39	0.56
2:B:614:GLU:HG3	2:B:616:LYS:HG3	1.87	0.56
2:B:1106:GLU:OE1	2:B:1131:CYS:HB3	2.05	0.56
2:B:1175:THR:O	2:B:1179:PRO:HD2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:175:GLN:HA	3:C:178:THR:CB	2.36	0.56
3:C:255:VAL:O	3:C:268:LYS:N	2.38	0.56
3:C:332:PRO:HD2	11:K:43:ASP:O	2.06	0.56
8:H:116:TYR:HD2	8:H:123:MET:CE	2.19	0.56
10:J:30:LEU:HD21	10:J:34:THR:HB	1.88	0.56
13:M:22:ALA:HA	13:M:93:ALA:HB1	1.87	0.56
13:M:80:LEU:HD23	13:M:89:GLN:NE2	2.21	0.56
14:N:78:THR:O	14:N:89:ILE:HG13	2.05	0.56
15:O:200:THR:HB	15:O:218:VAL:CG1	2.36	0.56
15:O:434:ARG:N	17:Q:144:VAL:CG2	2.59	0.56
16:P:210:TYR:CD1	20:T:42:DT:O2	2.58	0.56
16:P:235:GLY:N	16:P:289:ARG:CA	2.68	0.56
17:Q:158:THR:O	17:Q:160:HIS:CA	2.52	0.56
17:Q:290:TYR:N	17:Q:290:TYR:CD1	2.73	0.56
17:Q:380:SER:C	17:Q:384:VAL:HG11	2.23	0.56
1:A:486:PRO:HA	1:A:616:LEU:O	2.04	0.56
1:A:885:ASP:OD2	1:A:888:LYS:N	2.22	0.56
2:B:156:ARG:CZ	2:B:450:LEU:HB3	2.36	0.56
2:B:438:ILE:HG21	2:B:445:TYR:CD1	2.40	0.56
2:B:986:PHE:CE1	14:N:160:VAL:HG21	2.41	0.56
4:D:82:LEU:HD12	4:D:85:SER:HB2	1.87	0.56
5:E:127:ILE:CA	5:E:129:PRO:CD	2.63	0.56
7:G:143:SER:O	7:G:159:LYS:N	2.31	0.56
8:H:10:PHE:HE1	8:H:30:SER:HB2	1.69	0.56
11:K:70:HIS:CE1	11:K:93:ILE:HD12	2.40	0.56
13:M:43:LYS:HB2	14:N:29:PHE:HD1	1.69	0.56
14:N:59:PRO:O	14:N:62:VAL:HG22	2.06	0.56
15:O:59:UNK:C	15:O:226:HIS:NE2	2.64	0.56
15:O:603:ARG:NH2	16:P:268:PHE:HB3	2.21	0.56
15:O:669:PHE:CD1	15:O:675:PHE:HB2	2.41	0.56
16:P:195:ALA:N	16:P:216:GLU:CB	2.68	0.56
17:Q:295:PRO:C	17:Q:297:PHE:N	2.49	0.56
17:Q:408:ILE:O	17:Q:411:VAL:HG12	2.06	0.56
1:A:15:ASP:HB2	2:B:1190:SER:CB	2.14	0.56
1:A:918:LYS:O	1:A:923:ASN:HB2	2.05	0.56
1:A:1163:GLU:O	1:A:1167:ARG:HB2	2.00	0.56
1:A:1262:LEU:HG	1:A:1265:GLU:OE2	2.06	0.56
2:B:675:ALA:O	2:B:689:VAL:HG23	2.06	0.56
2:B:1118:PRO:HB3	2:B:1123:ILE:C	2.31	0.56
6:F:73:ALA:HB1	7:G:95:LEU:HD21	1.87	0.56
7:G:72:LYS:N	7:G:80:VAL:HG13	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:10:ILE:HG13	14:N:73:ASP:CG	2.31	0.56
15:O:499:GLU:HG3	15:O:500:ILE:N	2.07	0.56
16:P:343:THR:C	16:P:345:SER:N	2.57	0.56
17:Q:21:TYR:HE2	17:Q:124:GLU:CG	2.05	0.56
1:A:825:ALA:HB1	2:B:776:ILE:HD11	1.88	0.56
1:A:1039:ARG:CD	6:F:139:PRO:HG2	2.29	0.56
1:A:1229:ALA:HB1	1:A:1595:TYR:CD2	2.41	0.56
1:A:1290:TYR:HE2	1:A:1476:LEU:HD12	1.71	0.56
1:A:1546:VAL:HG11	1:A:1562:ILE:HD11	1.88	0.56
2:B:560:ARG:HB2	2:B:619:GLY:HA3	1.88	0.56
2:B:825:PHE:HA	2:B:860:ALA:O	2.05	0.56
2:B:1134:ARG:HD3	2:B:1160:GLU:OE2	2.06	0.56
2:B:1177:ALA:O	2:B:1180:PHE:HB3	2.06	0.56
3:C:94:ASP:CG	12:L:60:ARG:HH12	2.13	0.56
3:C:128:ASP:HB2	3:C:175:GLN:CD	2.31	0.56
13:M:55:GLY:O	13:M:61:GLU:HG3	2.06	0.56
14:N:54:TRP:CE2	14:N:135:LYS:HD3	2.41	0.56
15:O:290:GLU:C	15:O:339:ARG:HH21	2.14	0.56
15:O:323:ASN:C	15:O:348:HIS:ND1	2.64	0.56
15:O:388:ASN:C	17:Q:150:GLN:CD	2.74	0.56
17:Q:283:ARG:C	17:Q:302:ARG:NE	2.61	0.56
1:A:460:LEU:HD21	2:B:1178:ILE:CD1	2.36	0.55
1:A:509:GLU:HG2	1:A:519:LEU:HD21	1.88	0.55
1:A:977:MET:HA	1:A:981:TYR:O	2.06	0.55
2:B:102:VAL:HA	2:B:139:LEU:HA	1.87	0.55
2:B:129:ARG:NH1	2:B:891:GLU:HG3	2.21	0.55
2:B:480:GLN:O	2:B:484:TYR:OH	2.12	0.55
2:B:1152:PHE:HB2	2:B:1163:GLN:HE21	1.70	0.55
13:M:15:VAL:HG13	13:M:90:LEU:HD12	1.87	0.55
15:O:440:HIS:CD2	15:O:479:HIS:CD2	2.94	0.55
15:O:474:LYS:HD2	15:O:499:GLU:O	2.05	0.55
15:O:533:LEU:HD12	15:O:533:LEU:O	2.05	0.55
15:O:670:ALA:HA	15:O:738:LYS:NZ	2.20	0.55
15:O:725:VAL:HG23	16:P:450:THR:HA	0.56	0.55
16:P:193:PHE:HB2	17:Q:208:TYR:CE2	2.40	0.55
16:P:381:MET:CE	16:P:385:PHE:HD2	2.19	0.55
17:Q:302:ARG:HG3	17:Q:303:THR:HG22	1.87	0.55
1:A:40:ASN:C	1:A:42:GLY:H	2.13	0.55
1:A:79:ILE:O	1:A:359:VAL:HB	2.06	0.55
1:A:124:LEU:HD13	1:A:133:SER:CA	2.34	0.55
1:A:629:ASP:OD1	1:A:630:GLY:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1233:ILE:HG22	1:A:1235:THR:N	2.21	0.55
1:A:1294:MET:O	1:A:1469:TRP:CA	2.54	0.55
1:A:1458:THR:OG1	1:A:1473:LYS:HB3	2.06	0.55
2:B:261:ARG:NH2	2:B:268:GLU:OE1	2.33	0.55
2:B:383:SER:HA	2:B:388:GLU:CG	2.36	0.55
2:B:938:PHE:CZ	2:B:1014:TYR:HB2	2.41	0.55
2:B:1047:ARG:HD2	2:B:1066:HIS:O	2.05	0.55
2:B:1182:LEU:HD11	2:B:1187:SER:CB	2.25	0.55
2:B:1182:LEU:O	2:B:1186:ASP:N	2.39	0.55
4:D:95:ASP:CB	7:G:150:HIS:HA	2.36	0.55
7:G:28:ILE:CD1	7:G:132:VAL:H	2.19	0.55
10:J:41:LEU:HD22	10:J:46:CYS:HB3	1.88	0.55
13:M:79:GLY:CA	13:M:90:LEU:HD23	2.36	0.55
15:O:357:LEU:HD11	17:Q:20:LYS:HZ2	1.45	0.55
15:O:434:ARG:H	17:Q:144:VAL:HB	1.69	0.55
15:O:454:GLN:HE22	15:O:513:THR:HG22	1.71	0.55
15:O:722:TRP:HZ3	16:P:262:LEU:O	1.88	0.55
16:P:104:PHE:CE1	16:P:211:TYR:HB2	2.40	0.55
16:P:137:TRP:NE1	16:P:141:LEU:HD11	2.21	0.55
16:P:170:THR:HB	16:P:246:GLU:HB2	1.88	0.55
16:P:256:LEU:HD21	16:P:307:LEU:HD23	1.88	0.55
17:Q:266:SER:OG	17:Q:269:ASP:OD1	2.13	0.55
1:A:985:ARG:O	1:A:989:GLY:N	2.38	0.55
1:A:1463:ASP:HB2	1:A:1469:TRP:CE2	2.41	0.55
2:B:178:TYR:O	2:B:182:GLN:HG2	2.07	0.55
2:B:202:LEU:HD12	2:B:202:LEU:C	2.31	0.55
2:B:854:GLU:HG3	2:B:876:SER:N	2.21	0.55
2:B:1126:VAL:CA	2:B:1166:LYS:HE3	2.37	0.55
3:C:86:PHE:HE1	12:L:64:LEU:HD13	1.70	0.55
4:D:92:ILE:CG1	7:G:152:ALA:HB2	2.37	0.55
5:E:31:THR:O	5:E:35:VAL:HG23	2.07	0.55
7:G:90:LEU:HB3	7:G:117:TRP:HB2	1.88	0.55
8:H:48:PRO:HG2	8:H:146:ARG:HH12	1.70	0.55
15:O:319:ASP:HA	15:O:324:TRP:HA	1.87	0.55
15:O:375:PHE:HD2	15:O:380:MET:HG2	1.40	0.55
15:O:400:SER:O	15:O:401:ASN:ND2	2.39	0.55
15:O:413:GLY:HA2	15:O:426:ALA:CB	2.36	0.55
15:O:724:LEU:O	15:O:724:LEU:HG	2.07	0.55
15:O:780:ILE:HG12	16:P:199:LEU:HD11	1.89	0.55
16:P:104:PHE:CG	16:P:211:TYR:HB2	2.40	0.55
16:P:188:ALA:HB1	16:P:193:PHE:CE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:357:TYR:CE2	17:Q:203:SER:HA	2.41	0.55
17:Q:282:SER:O	17:Q:302:ARG:HB3	2.07	0.55
17:Q:290:TYR:O	17:Q:294:VAL:CG1	2.54	0.55
1:A:24:ILE:O	1:A:28:SER:N	2.38	0.55
1:A:99:ARG:HG2	1:A:243:PHE:CD2	2.40	0.55
1:A:419:ILE:O	1:A:422:ARG:HB2	2.06	0.55
2:B:335:ARG:NH2	13:M:113:ILE:HG22	2.21	0.55
2:B:679:GLN:H	2:B:679:GLN:CD	2.12	0.55
2:B:708:ASP:HB3	2:B:983:PRO:HB3	1.89	0.55
3:C:169:PHE:CE1	3:C:184:VAL:HG21	2.41	0.55
4:D:91:ARG:HB3	7:G:151:ASP:CG	2.31	0.55
7:G:97:LYS:HZ2	7:G:98:GLU:N	2.04	0.55
7:G:138:PHE:HB3	7:G:146:GLY:C	2.32	0.55
9:I:20:PRO:HD3	9:I:37:TYR:CE2	2.41	0.55
10:J:7:CYS:HA	10:J:49:MET:CE	2.28	0.55
14:N:72:VAL:HB	14:N:137:PHE:CZ	2.42	0.55
15:O:275:GLU:HG3	15:O:285:MET:HG2	1.88	0.55
15:O:382:GLU:O	15:O:390:GLN:HG2	2.06	0.55
15:O:401:ASN:O	15:O:419:ARG:N	2.39	0.55
15:O:438:TRP:CZ2	15:O:481:PHE:HD2	2.24	0.55
15:O:771:ILE:CD1	16:P:102:LEU:HD22	2.36	0.55
17:Q:16:ARG:HH12	17:Q:199:LYS:HZ1	1.55	0.55
1:A:511:VAL:HG11	1:A:575:LYS:HB2	1.88	0.55
1:A:1506:ARG:O	1:A:1521:THR:HA	2.06	0.55
2:B:117:VAL:HG21	17:Q:276:GLN:HG3	0.61	0.55
2:B:495:ARG:CZ	2:B:499:HIS:CE1	2.89	0.55
9:I:37:TYR:CB	9:I:38:PRO:CD	2.69	0.55
9:I:41:GLN:HG3	9:I:41:GLN:O	2.05	0.55
13:M:26:PHE:HE1	13:M:98:SER:HB2	1.68	0.55
15:O:12:UNK:HA	15:O:436:ILE:HD13	1.87	0.55
15:O:372:ILE:CG1	15:O:383:ILE:HB	2.37	0.55
16:P:149:GLN:HB2	16:P:150:GLU:OE1	2.06	0.55
16:P:239:PHE:CA	16:P:243:PHE:HD2	2.19	0.55
17:Q:177:LEU:HD11	17:Q:188:PHE:CD2	2.41	0.55
17:Q:282:SER:C	17:Q:301:SER:O	2.49	0.55
1:A:1:MET:CB	2:B:1094:ASN:HB3	2.36	0.55
1:A:99:ARG:NH2	1:A:228:LEU:HD22	2.21	0.55
1:A:533:ALA:HB2	1:A:579:ARG:HA	1.88	0.55
1:A:586:VAL:HG21	1:A:647:ALA:HB3	1.88	0.55
1:A:1317:ILE:HA	1:A:1321:PHE:HB3	1.89	0.55
2:B:30:LYS:HG2	2:B:178:TYR:CG	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:422:GLN:CD	2:B:473:GLN:HE22	2.13	0.55
2:B:480:GLN:OE1	2:B:480:GLN:N	2.39	0.55
2:B:1013:MET:O	2:B:1022:LEU:HG	2.05	0.55
2:B:1153:ILE:HD11	2:B:1157:GLN:O	2.07	0.55
3:C:121:PRO:HD2	3:C:124:GLU:CD	2.30	0.55
4:D:31:VAL:HG23	4:D:36:VAL:CG2	2.36	0.55
5:E:197:LYS:HA	5:E:211:TYR:HD1	1.71	0.55
6:F:86:THR:N	6:F:89:GLU:OE1	2.31	0.55
7:G:26:ASN:ND2	7:G:126:GLN:HE21	2.03	0.55
8:H:48:PRO:CD	8:H:146:ARG:HH12	2.20	0.55
9:I:7:LEU:N	9:I:7:LEU:HD12	2.21	0.55
11:K:49:LEU:HD13	11:K:63:PHE:CE1	2.38	0.55
11:K:77:ARG:HD2	11:K:91:TYR:CD2	2.42	0.55
13:M:77:VAL:HB	14:N:58:PHE:CD2	2.41	0.55
15:O:415:LEU:CD1	15:O:453:VAL:HG11	2.20	0.55
15:O:422:ILE:CG1	15:O:440:HIS:CD2	2.90	0.55
16:P:119:LEU:HD21	16:P:190:MET:CE	2.28	0.55
16:P:136:ILE:CD1	16:P:168:ALA:HB2	2.32	0.55
16:P:337:SER:HB3	16:P:448:LYS:HD3	1.87	0.55
16:P:351:ASN:O	16:P:355:VAL:CG2	2.53	0.55
16:P:360:LYS:N	16:P:361:PRO:HD3	2.22	0.55
1:A:111:LYS:HG3	1:A:111:LYS:O	2.06	0.55
1:A:246:ASP:OD2	1:A:250:LYS:N	2.40	0.55
1:A:791:TYR:N	1:A:795:HIS:CG	2.69	0.55
1:A:830:MET:CE	2:B:963:PHE:HB3	2.36	0.55
1:A:1118:VAL:O	1:A:1120:TYR:N	2.39	0.55
3:C:86:PHE:HB3	12:L:62:LYS:HG2	1.88	0.55
7:G:88:LYS:O	7:G:119:HIS:N	2.39	0.55
7:G:218:VAL:HG22	7:G:224:PRO:CB	2.36	0.55
9:I:17:LEU:HD13	9:I:37:TYR:CD2	2.42	0.55
9:I:28:VAL:HG12	9:I:37:TYR:HB2	1.87	0.55
15:O:324:TRP:CZ2	15:O:346:ASN:O	2.59	0.55
15:O:326:ILE:N	15:O:344:ILE:HD13	2.20	0.55
15:O:420:GLU:HA	15:O:442:LEU:CD1	2.37	0.55
15:O:420:GLU:C	15:O:421:ILE:HG13	2.31	0.55
15:O:423:ILE:HA	15:O:439:LYS:HB3	1.88	0.55
15:O:623:LEU:HD13	15:O:669:PHE:HA	1.88	0.55
16:P:95:LEU:CD2	16:P:100:ALA:CA	2.84	0.55
16:P:207:LEU:N	16:P:208:PRO:HD3	2.22	0.55
16:P:258:MET:HA	16:P:262:LEU:HD22	1.89	0.55
17:Q:247:ILE:HG13	17:Q:298:GLN:HG2	0.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:248:LYS:HA	17:Q:248:LYS:HE2	1.84	0.55
1:A:58:LEU:O	1:A:59:ARG:HB2	2.06	0.55
1:A:396:ILE:HD13	1:A:430:ILE:HG21	1.87	0.55
1:A:594:THR:HG22	1:A:594:THR:O	2.06	0.55
1:A:718:THR:OG1	1:A:730:GLN:NE2	2.38	0.55
1:A:791:TYR:C	1:A:795:HIS:HB3	2.30	0.55
1:A:1147:PHE:HD2	1:A:1148:LEU:HD23	1.72	0.55
1:A:1527:GLN:HA	1:A:1530:TRP:CE3	2.41	0.55
1:A:1647:ASN:O	1:A:1652:GLY:HA3	2.07	0.55
2:B:42:VAL:HG21	2:B:190:ILE:HB	1.89	0.55
2:B:225:ARG:CZ	2:B:261:ARG:HH12	2.19	0.55
2:B:1061:LYS:O	2:B:1065:ARG:HB2	2.06	0.55
4:D:44:ILE:HD11	4:D:89:LEU:HG	1.89	0.55
5:E:55:ARG:HB3	5:E:82:PHE:HB2	1.88	0.55
7:G:58:LEU:CD2	7:G:87:LEU:HD23	2.37	0.55
7:G:97:LYS:C	7:G:98:GLU:OE1	2.49	0.55
11:K:59:THR:HG21	11:K:108:TYR:O	2.07	0.55
13:M:32:ALA:HB1	13:M:36:THR:HG21	1.89	0.55
15:O:222:GLN:HE21	15:O:228:ASN:CA	2.19	0.55
15:O:380:MET:HE1	15:O:434:ARG:NH1	2.22	0.55
15:O:463:LEU:HA	15:O:482:SER:HA	1.88	0.55
15:O:659:LEU:HB2	15:O:742:TRP:CE2	2.40	0.55
15:O:705:HIS:CE1	15:O:707:ASP:HB2	2.39	0.55
16:P:207:LEU:HD23	16:P:209:ASN:HA	1.88	0.55
16:P:239:PHE:CE2	16:P:243:PHE:CD1	2.94	0.55
1:A:482:SER:HB3	1:A:614:LEU:CD1	2.37	0.55
1:A:786:TYR:HD1	1:A:786:TYR:N	2.05	0.55
1:A:1288:ARG:CZ	1:A:1481:GLU:O	2.55	0.55
2:B:217:ILE:HD12	2:B:219:ARG:HD3	1.89	0.55
2:B:795:GLU:OE1	3:C:217:ALA:N	2.36	0.55
2:B:950:ASN:CG	2:B:952:HIS:HD1	2.15	0.55
3:C:230:LEU:HB2	3:C:297:HIS:CD2	2.25	0.55
4:D:27:LEU:CD1	4:D:28:PRO:HD2	2.37	0.55
5:E:147:HIS:CE1	5:E:149:LEU:HG	2.42	0.55
7:G:38:ILE:HA	7:G:124:VAL:O	2.06	0.55
7:G:97:LYS:NZ	7:G:99:ASP:CA	2.46	0.55
13:M:10:ILE:CD1	14:N:54:TRP:HH2	2.20	0.55
15:O:254:ILE:O	15:O:256:ARG:N	2.39	0.55
15:O:318:ILE:HG23	15:O:340:LYS:NZ	2.22	0.55
15:O:365:TRP:NE1	15:O:407:ARG:NE	2.55	0.55
15:O:715:TYR:HD1	15:O:734:LYS:HE3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:104:PHE:HE2	16:P:155:GLN:HA	1.72	0.55
16:P:200:PRO:HA	16:P:203:TRP:CD1	2.42	0.55
16:P:383:LYS:O	16:P:386:LEU:HD21	1.93	0.55
17:Q:266:SER:O	17:Q:268:LEU:CA	2.53	0.55
1:A:790:LYS:C	1:A:795:HIS:HB2	2.32	0.55
1:A:1104:TYR:CZ	1:A:1117:SER:HB2	2.42	0.55
1:A:1288:ARG:O	1:A:1476:LEU:N	2.39	0.55
2:B:262:PHE:CE1	2:B:269:TYR:HB2	2.42	0.55
2:B:830:ASP:HA	2:B:834:LYS:HZ3	1.71	0.55
2:B:980:ASP:OD2	2:B:985:ILE:HD12	2.07	0.55
7:G:132:VAL:CG1	7:G:230:ARG:HG3	2.37	0.55
9:I:27:ASN:HB2	9:I:37:TYR:CA	2.37	0.55
11:K:54:THR:HA	11:K:60:SER:O	2.06	0.55
13:M:10:ILE:HG13	14:N:73:ASP:HB2	1.88	0.55
15:O:14:UNK:CB	15:O:438:TRP:CE3	2.89	0.55
15:O:214:LEU:CG	15:O:236:ILE:HG21	2.23	0.55
15:O:347:LEU:HD11	15:O:390:GLN:HE22	1.71	0.55
15:O:354:PRO:O	15:O:356:GLU:N	2.39	0.55
15:O:363:ILE:HD12	15:O:363:ILE:O	2.07	0.55
15:O:585:GLU:OE2	16:P:316:TRP:HH2	1.89	0.55
15:O:657:SER:H	16:P:244:ASN:HD22	1.55	0.55
16:P:120:ILE:O	16:P:124:ARG:CA	2.55	0.55
16:P:303:GLU:O	16:P:306:VAL:N	2.40	0.55
17:Q:248:LYS:HA	17:Q:248:LYS:NZ	2.21	0.55
17:Q:310:ILE:HG23	17:Q:363:GLU:OE1	2.03	0.55
1:A:258:GLU:O	1:A:262:THR:OG1	2.03	0.54
1:A:416:ARG:CA	1:A:419:ILE:CG1	2.86	0.54
1:A:749:LEU:H	1:A:771:PHE:HB2	1.72	0.54
1:A:790:LYS:HB2	1:A:795:HIS:ND1	2.22	0.54
2:B:293:ILE:HD11	2:B:296:ASP:O	2.08	0.54
2:B:887:LEU:HB2	12:L:56:LEU:HB2	1.88	0.54
3:C:37:LYS:HE2	11:K:130:VAL:HG22	1.89	0.54
3:C:64:ALA:HB1	3:C:300:PHE:CZ	2.42	0.54
5:E:61:GLN:HB2	5:E:79:TRP:CE3	2.42	0.54
10:J:30:LEU:HD23	10:J:35:ALA:HA	1.88	0.54
12:L:49:LYS:HA	16:P:404:ILE:HG23	1.88	0.54
15:O:216:ILE:H	15:O:234:THR:HG1	1.48	0.54
15:O:324:TRP:N	15:O:348:HIS:ND1	2.55	0.54
15:O:469:TYR:HB3	15:O:476:ILE:HD12	1.88	0.54
16:P:358:PRO:CB	17:Q:206:ARG:NH1	2.69	0.54
1:A:487:ASP:OD1	2:B:781:TYR:OH	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LYS:HD3	8:H:96:VAL:HG23	1.89	0.54
1:A:725:LEU:CD1	8:H:46:LEU:HD21	2.37	0.54
1:A:1320:GLN:HE22	1:A:1497:ILE:H	1.55	0.54
2:B:95:LEU:HD12	2:B:144:SER:O	2.07	0.54
2:B:561:ILE:HG22	2:B:565:LEU:HD11	1.88	0.54
2:B:577:PHE:CE2	13:M:28:LYS:HE3	2.36	0.54
2:B:614:GLU:CG	2:B:616:LYS:HG3	2.37	0.54
15:O:174:TRP:C	17:Q:198:LEU:HG	2.32	0.54
15:O:421:ILE:HG13	17:Q:138:PHE:CE2	2.38	0.54
15:O:483:HIS:CG	15:O:489:PHE:HE1	2.25	0.54
15:O:705:HIS:O	15:O:705:HIS:CG	2.59	0.54
16:P:341:ARG:C	16:P:342:THR:O	2.50	0.54
17:Q:380:SER:C	17:Q:384:VAL:HG22	2.32	0.54
1:A:411:VAL:HG13	1:A:412:SER:N	2.22	0.54
1:A:509:GLU:HG2	1:A:519:LEU:HD11	1.88	0.54
1:A:1439:MET:O	1:A:1444:ARG:NE	2.41	0.54
2:B:572:PRO:HB2	2:B:575:HIS:HD2	1.69	0.54
2:B:939:SER:OG	2:B:941:THR:HB	2.07	0.54
2:B:1069:ILE:HD12	2:B:1069:ILE:C	2.32	0.54
3:C:55:ASP:C	3:C:56:LEU:HD12	2.32	0.54
5:E:20:LYS:NZ	5:E:34:GLU:O	2.30	0.54
7:G:97:LYS:NZ	7:G:99:ASP:HB3	2.22	0.54
7:G:145:ILE:HD13	7:G:225:ILE:HD12	1.88	0.54
15:O:350:THR:C	17:Q:157:MET:HE2	2.22	0.54
15:O:648:SER:HB3	15:O:759:GLU:OE2	2.07	0.54
16:P:137:TRP:CZ3	16:P:140:ILE:HG21	2.42	0.54
16:P:150:GLU:O	16:P:150:GLU:CG	2.53	0.54
16:P:343:THR:HG1	16:P:348:ILE:H	1.52	0.54
17:Q:388:LYS:HE3	17:Q:393:ILE:HB	1.89	0.54
1:A:416:ARG:O	1:A:420:PHE:N	2.36	0.54
1:A:558:ALA:HA	1:A:561:LEU:HD12	1.88	0.54
1:A:717:PRO:HA	1:A:726:TRP:CE2	2.43	0.54
1:A:748:ASN:O	1:A:1072:ASN:ND2	2.30	0.54
2:B:815:ARG:NH2	2:B:818:GLY:C	2.66	0.54
5:E:48:ASP:OD1	5:E:51:GLY:N	2.40	0.54
13:M:40:LEU:HA	13:M:53:LEU:HD12	1.90	0.54
15:O:232:ASN:ND2	15:O:283:ASP:HA	2.23	0.54
15:O:428:GLU:HB2	15:O:433:VAL:HG22	1.88	0.54
15:O:723:VAL:O	15:O:723:VAL:HG12	2.08	0.54
16:P:144:ILE:HG23	16:P:154:LEU:CG	2.33	0.54
16:P:234:CYS:C	16:P:289:ARG:HB3	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:LEU:HB2	1:A:416:ARG:NE	2.22	0.54
1:A:532:GLY:H	1:A:580:HIS:HD2	1.53	0.54
1:A:721:LYS:HG2	8:H:94:ASP:O	2.01	0.54
1:A:1508:VAL:HG22	1:A:1520:VAL:O	2.06	0.54
1:A:1643:VAL:HG12	1:A:1643:VAL:O	2.07	0.54
2:B:29:PRO:HB2	2:B:177:PRO:HG2	1.88	0.54
2:B:251:HIS:CE1	2:B:261:ARG:CD	2.87	0.54
2:B:613:VAL:CB	2:B:658:LEU:HD12	2.33	0.54
3:C:128:ASP:HB2	3:C:175:GLN:OE1	2.06	0.54
4:D:28:PRO:HA	7:G:41:VAL:HA	1.89	0.54
6:F:74:ILE:HD13	6:F:144:GLU:HG3	1.89	0.54
8:H:22:LYS:HD3	8:H:43:ASN:HD21	1.72	0.54
8:H:87:ARG:HD2	8:H:91:ASP:OD2	2.08	0.54
13:M:21:VAL:HG22	14:N:112:PRO:CD	2.38	0.54
13:M:27:PHE:CZ	13:M:30:PHE:HA	2.43	0.54
14:N:55:LEU:O	14:N:136:VAL:HA	2.08	0.54
15:O:275:GLU:HG2	15:O:285:MET:HG3	1.89	0.54
15:O:359:SER:O	15:O:360:TRP:CD1	2.61	0.54
15:O:513:THR:HG23	15:O:513:THR:O	2.07	0.54
15:O:736:ILE:O	15:O:737:VAL:C	2.48	0.54
16:P:101:LYS:HE2	16:P:155:GLN:NE2	2.22	0.54
16:P:177:TYR:CE1	16:P:226:LEU:CG	2.90	0.54
16:P:369:TRP:HZ3	16:P:377:PHE:CD2	2.26	0.54
16:P:491:PHE:CD1	16:P:491:PHE:N	2.73	0.54
17:Q:310:ILE:HG21	17:Q:363:GLU:CD	2.28	0.54
1:A:109:ARG:CD	1:A:230:ARG:HB2	2.37	0.54
1:A:130:ILE:HD13	1:A:215:GLU:HG3	1.88	0.54
1:A:135:LYS:CB	1:A:188:TYR:OH	2.56	0.54
1:A:326:THR:HG23	1:A:329:ARG:NH2	2.22	0.54
1:A:1313:LEU:HA	1:A:1316:VAL:CG1	2.38	0.54
1:A:1501:ILE:CG2	1:A:1504:ILE:HD12	2.35	0.54
2:B:156:ARG:NH1	2:B:450:LEU:HB3	2.22	0.54
2:B:203:ILE:HG21	2:B:405:GLY:HA2	1.89	0.54
2:B:436:MET:O	2:B:436:MET:HG2	2.07	0.54
2:B:920:ARG:HH21	2:B:965:GLU:CD	2.15	0.54
2:B:1017:ALA:O	3:C:65:ASN:ND2	2.40	0.54
2:B:1105:ARG:HD3	2:B:1167:PHE:HB3	1.88	0.54
3:C:197:ARG:N	3:C:200:GLN:OE1	2.40	0.54
5:E:27:GLY:O	5:E:65:THR:N	2.34	0.54
5:E:85:GLU:C	5:E:113:GLN:HB2	2.33	0.54
7:G:136:TYR:C	7:G:147:LEU:HD23	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:27:ASN:HB3	9:I:39:LYS:HB3	1.87	0.54
11:K:136:THR:O	11:K:140:LYS:HG3	2.07	0.54
12:L:26:THR:CG2	12:L:28:LYS:HE2	2.37	0.54
14:N:52:GLN:HB3	14:N:54:TRP:HE1	1.71	0.54
15:O:181:ARG:HD2	15:O:206:ALA:CB	2.38	0.54
15:O:195:ASN:N	15:O:197:ARG:NH1	2.55	0.54
15:O:768:TYR:CZ	16:P:145:ASN:HA	2.41	0.54
16:P:405:ASP:O	16:P:406:GLN:C	2.50	0.54
17:Q:158:THR:HG22	17:Q:161:ASN:CB	2.32	0.54
17:Q:362:ALA:O	17:Q:363:GLU:C	2.48	0.54
1:A:123:ARG:HD3	1:A:189:VAL:CG1	2.38	0.54
1:A:1243:TRP:CZ3	1:A:1537:ASP:HB2	2.42	0.54
2:B:184:LYS:HB3	2:B:735:HIS:ND1	2.22	0.54
2:B:335:ARG:CD	2:B:341:SER:OG	2.56	0.54
3:C:143:ASN:HB2	3:C:155:GLU:O	2.08	0.54
7:G:110:ASP:OD1	7:G:111:THR:N	2.41	0.54
13:M:38:PHE:O	14:N:118:SER:HB3	2.08	0.54
15:O:375:PHE:CD1	15:O:375:PHE:N	2.75	0.54
15:O:573:GLU:C	16:P:499:LYS:NZ	2.66	0.54
15:O:734:LYS:HD2	15:O:737:VAL:HB	1.89	0.54
16:P:272:GLN:O	16:P:275:GLU:HB3	2.08	0.54
16:P:274:ILE:C	16:P:278:GLU:HB3	2.33	0.54
1:A:239:PHE:HZ	1:A:263:ASN:CG	2.16	0.54
1:A:494:GLU:HG2	1:A:604:LYS:CB	2.34	0.54
1:A:956:ARG:HH11	1:A:979:GLY:HA2	1.73	0.54
1:A:1113:HIS:ND1	1:A:1114:TYR:HD1	2.06	0.54
1:A:1260:LYS:HG3	1:A:1499:ARG:O	2.07	0.54
2:B:1084:THR:OG1	2:B:1087:LEU:HB2	2.06	0.54
4:D:89:LEU:HA	4:D:92:ILE:HD12	1.89	0.54
5:E:1:MET:HB3	5:E:4:GLU:HB3	1.89	0.54
6:F:94:LEU:HD21	6:F:125:LEU:CB	2.36	0.54
15:O:213:VAL:HG13	15:O:236:ILE:O	2.07	0.54
15:O:275:GLU:O	15:O:284:VAL:HG12	2.03	0.54
15:O:303:VAL:O	15:O:304:ASP:HB2	2.07	0.54
15:O:408:ILE:O	15:O:408:ILE:HG12	2.08	0.54
15:O:473:HIS:O	15:O:504:THR:HG23	2.07	0.54
15:O:611:ILE:HD11	15:O:731:LEU:HG	1.90	0.54
15:O:722:TRP:CZ3	16:P:262:LEU:O	2.61	0.54
16:P:112:LEU:HD13	16:P:161:THR:HG23	1.90	0.54
1:A:209:THR:HG21	5:E:173:SER:OG	2.07	0.54
1:A:484:ILE:HG21	1:A:633:MET:SD	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:ASN:OD1	1:A:494:GLU:HG3	2.08	0.54
1:A:749:LEU:CD2	1:A:792:GLY:O	2.56	0.54
1:A:1591:ARG:CZ	1:A:1596:LEU:HD23	2.38	0.54
2:B:93:ASN:O	2:B:440:PHE:CE2	2.60	0.54
2:B:161:LEU:HD12	2:B:162:PRO:HD2	1.89	0.54
2:B:222:PHE:O	2:B:229:TYR:HB3	2.08	0.54
2:B:290:ASP:OD1	13:M:28:LYS:HB2	2.08	0.54
2:B:897:GLU:CB	2:B:899:GLN:HE21	2.20	0.54
3:C:113:LEU:HD22	3:C:130:ASN:C	2.32	0.54
3:C:325:ALA:HB3	11:K:125:MET:HG3	1.90	0.54
5:E:178:ILE:HG22	5:E:214:CYS:HA	1.88	0.54
7:G:90:LEU:HD13	7:G:119:HIS:CE1	2.42	0.54
9:I:17:LEU:HD13	9:I:37:TYR:CG	2.42	0.54
11:K:95:HIS:HB3	11:K:98:GLU:CD	2.32	0.54
15:O:60:UNK:C	15:O:226:HIS:CE1	2.91	0.54
15:O:174:TRP:CD1	17:Q:199:LYS:HD3	2.43	0.54
15:O:356:GLU:HB3	17:Q:24:ILE:HD12	1.88	0.54
15:O:363:ILE:CG2	15:O:374:VAL:HG13	2.32	0.54
15:O:380:MET:CB	15:O:394:VAL:HG22	2.21	0.54
15:O:705:HIS:O	15:O:706:GLU:CB	2.46	0.54
16:P:195:ALA:CB	16:P:216:GLU:OE1	2.55	0.54
16:P:222:PHE:N	16:P:225:GLN:HG2	2.16	0.54
16:P:330:TRP:NE1	16:P:452:PHE:CD1	2.75	0.54
1:A:109:ARG:HD2	1:A:230:ARG:HB2	1.89	0.54
1:A:822:THR:HG23	2:B:778:TYR:OH	2.09	0.54
2:B:344:GLN:HA	2:B:348:GLU:OE1	2.08	0.54
2:B:913:ILE:O	2:B:913:ILE:HG13	2.08	0.54
4:D:22:ILE:HG23	7:G:43:ILE:HD12	1.89	0.54
7:G:100:THR:O	7:G:102:GLU:N	2.41	0.54
8:H:43:ASN:CG	8:H:46:LEU:HD13	2.33	0.54
15:O:312:LEU:HD13	15:O:312:LEU:C	2.32	0.54
15:O:373:LEU:CD2	15:O:382:GLU:HG3	2.37	0.54
15:O:428:GLU:HB3	15:O:433:VAL:HG22	1.80	0.54
15:O:704:LEU:HD11	16:P:123:MET:CE	2.23	0.54
16:P:183:LYS:CG	16:P:189:LYS:CE	2.86	0.54
16:P:233:THR:O	16:P:237:ILE:HG13	2.08	0.54
16:P:497:GLN:O	16:P:501:CYS:N	2.21	0.54
17:Q:204:GLU:O	17:Q:205:VAL:C	2.49	0.54
1:A:30:LYS:HE3	1:A:51:ASP:OD2	2.08	0.53
1:A:109:ARG:CD	1:A:230:ARG:O	2.55	0.53
1:A:246:ASP:CG	1:A:249:THR:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:PHE:CD1	1:A:314:TYR:HD1	2.25	0.53
1:A:817:PHE:O	1:A:821:ILE:HG12	2.09	0.53
1:A:1634:LEU:HD21	1:A:1645:LYS:HG3	1.90	0.53
2:B:67:ASP:OD2	2:B:414:LYS:NZ	2.38	0.53
2:B:161:LEU:HD12	2:B:162:PRO:CD	2.38	0.53
2:B:397:THR:HA	2:B:400:GLN:OE1	2.08	0.53
2:B:428:VAL:HG22	2:B:445:TYR:OH	2.09	0.53
2:B:737:SER:HB3	2:B:806:THR:CG2	2.22	0.53
2:B:746:THR:HG21	10:J:8:PHE:HZ	1.72	0.53
2:B:1012:PRO:HG3	2:B:1025:ASP:OD1	2.08	0.53
7:G:38:ILE:HG23	7:G:82:LEU:HD12	1.90	0.53
7:G:111:THR:HB	7:G:112:PRO:HD2	1.90	0.53
11:K:70:HIS:NE2	11:K:93:ILE:HD12	2.23	0.53
11:K:74:ASN:HA	11:K:77:ARG:CG	2.37	0.53
13:M:109:ARG:HG2	13:M:110:GLY:H	1.73	0.53
14:N:35:LEU:N	14:N:115:SER:OG	2.37	0.53
14:N:56:ILE:HG13	14:N:137:PHE:HB2	1.89	0.53
15:O:264:ILE:HG22	15:O:265:THR:N	2.22	0.53
15:O:356:GLU:HA	17:Q:24:ILE:HD11	1.89	0.53
15:O:419:ARG:CZ	15:O:420:GLU:OE1	2.55	0.53
15:O:744:LEU:HD22	15:O:744:LEU:H	1.73	0.53
15:O:757:GLN:HG3	16:P:135:ILE:HG22	1.89	0.53
16:P:154:LEU:H	16:P:154:LEU:HD13	1.72	0.53
16:P:177:TYR:CZ	16:P:226:LEU:CG	2.90	0.53
17:Q:16:ARG:HH22	17:Q:199:LYS:NZ	2.00	0.53
1:A:29:ALA:HA	2:B:1129:ARG:CZ	2.39	0.53
1:A:110:LEU:N	1:A:230:ARG:HG3	2.23	0.53
1:A:1089:LEU:C	1:A:1089:LEU:HD12	2.32	0.53
2:B:359:LEU:HB3	2:B:361:HIS:CE1	2.42	0.53
2:B:429:ARG:HA	2:B:432:ILE:CD1	2.37	0.53
2:B:501:ARG:O	2:B:544:HIS:HA	2.08	0.53
2:B:566:TYR:CE2	13:M:70:SER:HA	2.43	0.53
3:C:218:LYS:HE2	12:L:70:ARG:HE	1.73	0.53
7:G:88:LYS:O	7:G:118:CYS:HA	2.08	0.53
8:H:95:TYR:OH	8:H:97:MET:SD	2.57	0.53
10:J:30:LEU:HD21	10:J:34:THR:HG22	1.90	0.53
12:L:40:LEU:HG	12:L:41:SER:N	2.22	0.53
13:M:17:ASP:O	13:M:17:ASP:OD1	2.26	0.53
15:O:299:ASP:CB	17:Q:159:TYR:CA	2.75	0.53
15:O:357:LEU:N	15:O:357:LEU:CD2	2.72	0.53
15:O:365:TRP:CZ2	15:O:407:ARG:HD3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:630:LEU:HD12	15:O:630:LEU:C	2.33	0.53
16:P:200:PRO:CA	16:P:203:TRP:CD1	2.85	0.53
16:P:208:PRO:HB3	16:P:212:VAL:C	2.33	0.53
17:Q:380:SER:C	17:Q:384:VAL:CG2	2.81	0.53
1:A:55:GLY:C	1:A:62:CYS:HA	2.33	0.53
1:A:1440:ASN:O	1:A:1444:ARG:N	2.38	0.53
2:B:138:LEU:HA	2:B:156:ARG:O	2.07	0.53
2:B:244:THR:HG21	2:B:414:LYS:HD3	1.90	0.53
2:B:252:TYR:CZ	2:B:256:GLY:HA2	2.43	0.53
2:B:286:ARG:HD3	9:I:9:PHE:CE2	2.43	0.53
2:B:529:CYS:SG	2:B:531:VAL:HG22	2.48	0.53
2:B:1142:LEU:HD23	7:G:13:THR:CG2	2.24	0.53
3:C:86:PHE:HB3	12:L:62:LYS:CG	2.38	0.53
3:C:116:VAL:HG21	3:C:125:LYS:CG	2.39	0.53
5:E:213:ILE:HG23	5:E:215:MET:HG2	1.89	0.53
6:F:133:VAL:HG11	6:F:145:ASP:HB3	1.90	0.53
9:I:23:VAL:HG11	9:I:38:PRO:HG2	1.89	0.53
10:J:32:GLU:CD	10:J:32:GLU:H	2.14	0.53
15:O:214:LEU:N	15:O:236:ILE:CG2	2.71	0.53
15:O:455:LYS:O	15:O:455:LYS:HG3	2.08	0.53
15:O:511:ILE:O	15:O:512:LEU:CB	2.56	0.53
15:O:736:ILE:O	15:O:736:ILE:HG22	2.04	0.53
17:Q:248:LYS:CA	17:Q:298:GLN:NE2	2.70	0.53
17:Q:380:SER:CA	17:Q:384:VAL:HG13	2.37	0.53
1:A:109:ARG:HB2	1:A:230:ARG:HB2	1.90	0.53
1:A:129:LEU:O	1:A:133:SER:OG	2.12	0.53
1:A:340:HIS:HB3	1:A:342:ARG:O	2.09	0.53
1:A:403:LEU:O	1:A:406:LEU:C	2.52	0.53
1:A:492:THR:HG22	1:A:617:HIS:CE1	2.43	0.53
2:B:232:TYR:HB3	2:B:384:LEU:HD23	1.91	0.53
2:B:299:ASP:OD2	2:B:302:LEU:HB2	2.08	0.53
2:B:682:GLN:H	2:B:686:HIS:CE1	2.26	0.53
2:B:788:ILE:CG2	2:B:931:TRP:HB2	2.38	0.53
3:C:89:THR:OG1	3:C:200:GLN:HA	2.09	0.53
5:E:121:MET:HA	5:E:124:VAL:HG23	1.90	0.53
6:F:138:LEU:O	6:F:141:GLY:N	2.41	0.53
9:I:11:LEU:CD2	13:M:31:ARG:HD3	2.34	0.53
15:O:174:TRP:HD1	17:Q:199:LYS:HB2	1.74	0.53
15:O:269:PHE:CE1	15:O:339:ARG:HD2	2.35	0.53
15:O:350:THR:CG2	17:Q:153:ASN:CG	2.82	0.53
15:O:511:ILE:CD1	15:O:537:PHE:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:693:PHE:HD2	15:O:746:ARG:H	0.78	0.53
16:P:129:PHE:O	16:P:129:PHE:HD1	1.92	0.53
16:P:257:VAL:O	16:P:262:LEU:HA	2.07	0.53
16:P:369:TRP:CH2	16:P:377:PHE:CE1	2.79	0.53
16:P:382:GLU:O	16:P:382:GLU:CD	2.52	0.53
16:P:389:GLN:NE2	16:P:390:THR:CG2	2.72	0.53
1:A:469:LYS:CD	2:B:1070:ARG:HH12	2.00	0.53
1:A:657:TYR:CZ	1:A:665:PRO:HB3	2.42	0.53
1:A:1098:SER:O	1:A:1102:LEU:CB	2.56	0.53
1:A:1260:LYS:HE3	1:A:1262:LEU:HD21	1.89	0.53
1:A:1313:LEU:HA	1:A:1316:VAL:HG12	1.90	0.53
1:A:1320:GLN:HE21	1:A:1496:SER:HA	1.72	0.53
2:B:362:LEU:HD12	2:B:370:LYS:CG	2.37	0.53
2:B:455:GLU:H	2:B:455:GLU:CD	2.09	0.53
2:B:470:LEU:HD22	2:B:484:TYR:CD2	2.44	0.53
2:B:655:TYR:CZ	2:B:657:PRO:HG2	2.44	0.53
2:B:657:PRO:CD	14:N:148:ILE:HD11	2.38	0.53
2:B:790:ASN:HB3	2:B:793:ALA:CB	2.38	0.53
2:B:898:LEU:HD13	12:L:46:VAL:HG11	1.89	0.53
13:M:44:LYS:CE	14:N:30:LYS:HD2	2.22	0.53
15:O:194:ARG:CZ	15:O:194:ARG:CB	2.86	0.53
15:O:472:ARG:HH11	17:Q:203:SER:HB3	1.72	0.53
15:O:780:ILE:CG1	16:P:199:LEU:HD11	2.38	0.53
16:P:222:PHE:CZ	17:Q:206:ARG:CG	2.91	0.53
16:P:257:VAL:HG13	16:P:263:PRO:HD3	1.85	0.53
16:P:261:ALA:O	16:P:263:PRO:CD	2.56	0.53
16:P:294:HIS:C	16:P:295:THR:OG1	2.48	0.53
16:P:359:ASP:OD2	16:P:361:PRO:HG3	2.08	0.53
16:P:494:SER:HG	16:P:498:LEU:H	1.54	0.53
17:Q:285:VAL:CG2	17:Q:302:ARG:CD	2.87	0.53
1:A:546:LEU:HD22	1:A:554:ARG:CG	2.37	0.53
1:A:1458:THR:HG21	1:A:1475:GLU:HG3	1.89	0.53
2:B:74:PHE:CE2	2:B:343:ASP:HB2	2.34	0.53
2:B:136:LYS:HD2	2:B:138:LEU:HD11	1.91	0.53
2:B:523:GLU:OE1	2:B:523:GLU:N	2.42	0.53
4:D:92:ILE:O	4:D:96:PHE:N	2.31	0.53
5:E:26:ARG:HH21	5:E:187:TYR:C	2.15	0.53
7:G:48:SER:HA	7:G:115:PHE:HD1	1.74	0.53
7:G:133:LEU:O	7:G:230:ARG:HA	2.09	0.53
8:H:11:GLN:OE1	8:H:53:ASP:N	2.42	0.53
15:O:225:LEU:N	15:O:225:LEU:HD22	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:294:PHE:HE2	15:O:300:LEU:HB3	0.68	0.53
16:P:113:LYS:C	16:P:116:ILE:HG13	2.34	0.53
16:P:166:TYR:OH	16:P:247:ILE:HG12	2.08	0.53
16:P:238:HIS:CE1	16:P:289:ARG:NH1	2.76	0.53
16:P:356:VAL:CG1	17:Q:211:ARG:NH2	2.66	0.53
1:A:262:THR:O	1:A:265:ARG:HB2	2.08	0.53
1:A:393:SER:HB3	1:A:397:ARG:NH1	2.24	0.53
1:A:496:GLY:HA2	1:A:606:ARG:O	2.08	0.53
1:A:1290:TYR:CE2	1:A:1476:LEU:HD12	2.42	0.53
2:B:35:PHE:N	2:B:36:PRO:HD3	2.24	0.53
2:B:725:THR:HG21	2:B:767:ASN:ND2	2.23	0.53
5:E:10:SER:HB2	5:E:39:LEU:CD2	2.37	0.53
6:F:74:ILE:HD12	6:F:143:PHE:O	2.09	0.53
15:O:409:ASP:OD2	15:O:455:LYS:NZ	2.40	0.53
15:O:597:LYS:HE3	16:P:325:GLN:OE1	2.09	0.53
15:O:656:HIS:CB	15:O:747:LEU:HB3	2.25	0.53
16:P:95:LEU:CD2	16:P:100:ALA:HB2	2.39	0.53
16:P:124:ARG:O	16:P:124:ARG:HG3	2.09	0.53
16:P:200:PRO:HB2	16:P:204:ARG:H	1.74	0.53
19:S:24:DG:O6	20:T:31:DC:N4	2.41	0.53
1:A:1:MET:HB2	2:B:1094:ASN:CB	2.37	0.53
1:A:594:THR:HG21	2:B:1074:MET:C	2.33	0.53
1:A:1306:TYR:O	1:A:1308:VAL:HG13	2.08	0.53
2:B:108:MET:HA	2:B:119:ARG:O	2.09	0.53
2:B:896:GLN:OE1	12:L:45:ALA:HB1	2.08	0.53
5:E:86:PRO:HB3	5:E:114:ASN:HB2	1.91	0.53
8:H:3:ASN:O	8:H:61:SER:OG	2.27	0.53
13:M:103:LYS:HA	13:M:106:LYS:HD2	1.91	0.53
15:O:270:GLN:NE2	15:O:289:SER:H	2.06	0.53
15:O:327:GLY:HA2	15:O:342:GLN:HB3	1.90	0.53
15:O:345:ASP:HB2	17:Q:152:ILE:HG23	1.91	0.53
15:O:657:SER:O	15:O:658:LYS:CD	2.55	0.53
15:O:734:LYS:HA	15:O:737:VAL:HB	1.91	0.53
1:A:119:ALA:CB	1:A:334:VAL:HG23	2.34	0.53
1:A:320:VAL:HG12	1:A:324:LEU:HD12	1.90	0.53
1:A:385:LEU:HB2	1:A:437:PHE:CD1	2.44	0.53
1:A:712:ILE:HB	11:K:106:GLN:HE22	1.72	0.53
1:A:805:VAL:O	1:A:809:VAL:HG23	2.09	0.53
1:A:1242:ILE:HD11	1:A:1517:ARG:CB	2.27	0.53
1:A:1459:LYS:HB2	1:A:1473:LYS:HB2	1.90	0.53
2:B:277:LEU:CD2	2:B:374:LEU:HD23	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:409:TYR:O	2:B:412:ILE:HG22	2.09	0.53
5:E:48:ASP:H	5:E:52:ARG:H	1.55	0.53
5:E:78:LEU:HD23	5:E:78:LEU:C	2.34	0.53
12:L:48:CYS:O	12:L:52:GLY:N	2.42	0.53
13:M:79:GLY:HA3	13:M:90:LEU:HD23	1.90	0.53
15:O:348:HIS:O	17:Q:153:ASN:OD1	2.27	0.53
15:O:436:ILE:CG1	17:Q:141:TRP:CE3	2.92	0.53
15:O:693:PHE:HZ	16:P:172:LEU:HD21	1.73	0.53
15:O:749:LYS:N	15:O:750:PRO:CD	2.72	0.53
15:O:764:LEU:HD21	16:P:142:LYS:HA	1.91	0.53
16:P:139:LYS:CE	16:P:242:PHE:CE2	2.90	0.53
16:P:167:LEU:HA	16:P:170:THR:CG2	2.39	0.53
16:P:184:TRP:HZ2	16:P:192:TYR:CD2	2.12	0.53
16:P:273:VAL:O	16:P:276:PHE:HB3	2.09	0.53
16:P:336:GLU:O	16:P:337:SER:C	2.50	0.53
16:P:354:LYS:CD	16:P:362:THR:HG22	2.37	0.53
16:P:355:VAL:HG11	17:Q:215:THR:HG21	1.91	0.53
16:P:381:MET:HE2	17:Q:216:LEU:HD11	1.91	0.53
1:A:64:THR:HB	1:A:75:HIS:CD2	2.44	0.53
1:A:437:PHE:C	2:B:1184:TYR:OH	2.52	0.53
1:A:1105:ARG:O	1:A:1109:SER:N	2.41	0.53
1:A:1565:GLU:O	1:A:1569:VAL:HG23	2.09	0.53
2:B:383:SER:HA	2:B:388:GLU:HG2	1.90	0.53
3:C:192:LEU:HD21	3:C:195:LYS:HG3	1.90	0.53
5:E:69:ILE:HD11	5:E:73:PRO:O	2.10	0.53
5:E:94:LYS:CA	5:E:123:LEU:HD13	2.39	0.53
7:G:100:THR:C	7:G:102:GLU:N	2.66	0.53
7:G:163:PRO:CG	7:G:250:ILE:HG22	2.38	0.53
14:N:87:TYR:HD1	14:N:141:GLU:HA	1.73	0.53
15:O:616:SER:CB	15:O:620:ASP:CA	2.51	0.53
16:P:287:TRP:CZ2	16:P:298:VAL:HB	2.44	0.53
16:P:332:LEU:HA	16:P:335:THR:OG1	2.08	0.53
17:Q:175:ILE:CB	17:Q:176:PRO:CD	2.85	0.53
17:Q:246:GLN:NE2	17:Q:246:GLN:H	2.07	0.53
17:Q:296:PRO:HB3	17:Q:304:HIS:CE1	2.44	0.53
1:A:28:SER:O	2:B:1129:ARG:NH2	2.43	0.52
1:A:467:PHE:HE1	1:A:1642:VAL:HG21	1.74	0.52
1:A:484:ILE:HG21	1:A:633:MET:CG	2.39	0.52
1:A:587:VAL:CG2	1:A:636:HIS:O	2.57	0.52
1:A:641:GLU:OE1	1:A:644:ARG:NH1	2.41	0.52
1:A:790:LYS:C	1:A:795:HIS:CB	2.81	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1254:PHE:CE1	1:A:1532:GLN:OE1	2.63	0.52
3:C:52:ALA:HB2	3:C:310:PRO:HG2	1.90	0.52
3:C:325:ALA:CB	11:K:125:MET:HG3	2.39	0.52
3:C:333:ILE:HG13	11:K:114:VAL:CG1	2.39	0.52
4:D:91:ARG:HB3	7:G:151:ASP:HB3	1.90	0.52
6:F:136:ARG:O	6:F:143:PHE:HA	2.08	0.52
7:G:100:THR:HG23	7:G:100:THR:O	2.08	0.52
15:O:235:SER:O	15:O:236:ILE:HD13	2.09	0.52
15:O:270:GLN:NE2	15:O:289:SER:HB2	2.24	0.52
15:O:313:GLN:HB3	15:O:315:PHE:CG	2.44	0.52
15:O:323:ASN:OD1	17:Q:155:GLN:HG2	2.06	0.52
15:O:353:ASP:OD1	15:O:354:PRO:CD	2.50	0.52
15:O:611:ILE:HG23	15:O:731:LEU:HD23	1.91	0.52
16:P:120:ILE:HD11	16:P:130:GLU:HB2	1.90	0.52
16:P:157:HIS:O	16:P:158:MET:C	2.51	0.52
16:P:167:LEU:CD2	16:P:286:LEU:HD21	2.40	0.52
16:P:183:LYS:HG2	16:P:189:LYS:CE	2.39	0.52
1:A:406:LEU:HD13	1:A:416:ARG:NE	2.24	0.52
1:A:435:ASN:O	1:A:438:ILE:HB	2.09	0.52
1:A:786:TYR:N	1:A:786:TYR:CD1	2.73	0.52
1:A:1308:VAL:HG11	1:A:1498:ILE:HG21	1.92	0.52
1:A:1610:PHE:CD2	1:A:1632:GLU:HG2	2.44	0.52
2:B:460:LYS:O	2:B:464:PHE:HD2	1.91	0.52
2:B:576:THR:HG21	2:B:595:TRP:HB2	1.91	0.52
2:B:887:LEU:HD23	2:B:898:LEU:HD22	1.91	0.52
2:B:894:LYS:HG2	2:B:896:GLN:HG2	1.91	0.52
2:B:913:ILE:O	2:B:1041:ASN:ND2	2.42	0.52
3:C:64:ALA:HB2	3:C:298:PHE:CD2	2.44	0.52
4:D:30:HIS:HA	7:G:39:VAL:HG23	1.91	0.52
11:K:47:ILE:HD11	11:K:63:PHE:CG	2.44	0.52
13:M:12:ILE:HG13	14:N:69:SER:HA	1.91	0.52
15:O:389:TRP:HH2	17:Q:147:GLN:C	2.13	0.52
15:O:649:ILE:HD13	15:O:649:ILE:H	1.74	0.52
15:O:732:LEU:HD12	15:O:735:GLU:HG3	1.91	0.52
16:P:214:ILE:HG23	16:P:214:ILE:O	2.08	0.52
16:P:311:MET:SD	16:P:487:LEU:HD21	2.49	0.52
16:P:320:PHE:CE1	16:P:322:ARG:NH2	2.55	0.52
17:Q:147:GLN:CD	17:Q:147:GLN:H	2.17	0.52
17:Q:285:VAL:HG22	17:Q:302:ARG:HD3	1.90	0.52
17:Q:355:THR:H	17:Q:359:MET:H	1.57	0.52
1:A:189:VAL:HG12	1:A:193:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1139:ASN:OD1	1:A:1143:LYS:HE3	2.08	0.52
1:A:1297:PHE:CE1	9:I:64:LYS:HD3	2.45	0.52
2:B:500:PHE:O	2:B:501:ARG:HD2	2.09	0.52
2:B:576:THR:HG21	2:B:595:TRP:CG	2.44	0.52
3:C:156:LEU:HD23	3:C:157:TYR:CE2	2.45	0.52
4:D:27:LEU:CD1	7:G:23:GLN:HB3	2.23	0.52
6:F:127:GLU:HB3	6:F:129:LYS:HD3	1.90	0.52
6:F:130:ILE:HG23	6:F:132:LEU:HG	1.92	0.52
9:I:8:ILE:HG23	9:I:8:ILE:O	2.08	0.52
13:M:60:LEU:HD12	13:M:60:LEU:N	2.24	0.52
15:O:274:ILE:HD11	15:O:284:VAL:HG11	1.91	0.52
15:O:380:MET:HG3	15:O:402:ILE:CD1	2.39	0.52
15:O:734:LYS:HD2	15:O:737:VAL:CB	2.39	0.52
16:P:182:ILE:HD11	16:P:350:ARG:CA	2.40	0.52
16:P:233:THR:HG22	16:P:237:ILE:CD1	2.39	0.52
17:Q:310:ILE:CG2	17:Q:363:GLU:CD	2.82	0.52
17:Q:385:ASN:HD22	17:Q:385:ASN:N	2.07	0.52
1:A:657:TYR:CG	1:A:798:HIS:CD2	2.98	0.52
1:A:692:TYR:HD1	1:A:731:ILE:HG12	1.75	0.52
1:A:701:ARG:HG2	1:A:703:GLU:OE2	2.10	0.52
1:A:1148:LEU:HD13	1:A:1163:GLU:HB3	1.91	0.52
1:A:1317:ILE:O	1:A:1322:ILE:HG22	2.09	0.52
2:B:74:PHE:HE2	2:B:342:PRO:O	1.92	0.52
2:B:259:THR:HB	2:B:270:LEU:CG	2.39	0.52
2:B:464:PHE:CE1	2:B:471:VAL:HG22	2.44	0.52
2:B:705:PRO:HA	2:B:981:SER:OG	2.08	0.52
4:D:95:ASP:OD2	7:G:150:HIS:HA	2.09	0.52
4:D:99:LEU:HD12	4:D:100:PRO:HD2	1.91	0.52
5:E:197:LYS:HD3	5:E:211:TYR:HE1	1.74	0.52
6:F:127:GLU:CB	6:F:129:LYS:HD3	2.39	0.52
14:N:157:ARG:NH1	14:N:159:ASP:OD1	2.43	0.52
15:O:326:ILE:CB	15:O:344:ILE:CG2	2.67	0.52
15:O:400:SER:HA	15:O:419:ARG:CD	2.34	0.52
15:O:573:GLU:CB	16:P:495:LYS:HZ2	2.23	0.52
15:O:604:ILE:CB	15:O:732:LEU:CD2	2.87	0.52
15:O:736:ILE:HG23	15:O:739:ASP:HB3	1.91	0.52
15:O:746:ARG:HH12	16:P:244:ASN:ND2	2.07	0.52
16:P:211:TYR:CA	16:P:214:ILE:HG22	2.39	0.52
16:P:278:GLU:CG	16:P:309:TYR:CE2	2.92	0.52
16:P:378:LEU:HD12	17:Q:235:ILE:HG12	1.90	0.52
17:Q:347:ASP:HA	17:Q:350:SER:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:ASN:HA	1:A:267:LYS:HB2	1.91	0.52
1:A:538:ASN:HB2	1:A:540:ASP:OD1	2.09	0.52
1:A:781:LEU:HD22	1:A:785:GLN:HB3	1.91	0.52
1:A:1097:TYR:CE1	1:A:1101:THR:HG21	2.45	0.52
2:B:259:THR:HB	2:B:270:LEU:HG	1.90	0.52
2:B:621:PRO:HB2	2:B:623:ASP:OD1	2.09	0.52
2:B:795:GLU:OE1	3:C:216:HIS:HA	2.08	0.52
2:B:813:LEU:CD1	2:B:813:LEU:N	2.73	0.52
2:B:887:LEU:CG	2:B:898:LEU:HD21	2.36	0.52
3:C:333:ILE:HG13	11:K:114:VAL:HG11	1.90	0.52
5:E:14:ARG:HH12	5:E:141:VAL:CG1	2.22	0.52
6:F:99:LEU:O	6:F:102:SER:OG	2.15	0.52
13:M:23:VAL:HG13	14:N:108:THR:O	2.09	0.52
15:O:271:ILE:HG22	15:O:272:PHE:N	2.25	0.52
15:O:539:VAL:HG23	15:O:539:VAL:O	2.08	0.52
15:O:722:TRP:C	15:O:724:LEU:H	2.17	0.52
15:O:725:VAL:CA	16:P:450:THR:HA	2.39	0.52
15:O:737:VAL:O	15:O:740:ILE:HG13	2.09	0.52
16:P:227:TYR:HE2	16:P:301:HIS:ND1	2.03	0.52
16:P:259:GLN:NE2	16:P:259:GLN:CA	2.73	0.52
16:P:281:ILE:HD13	16:P:281:ILE:N	2.10	0.52
17:Q:248:LYS:CA	17:Q:248:LYS:NZ	2.73	0.52
1:A:45:VAL:HG13	1:A:48:GLY:HA3	1.91	0.52
1:A:464:GLU:HG2	1:A:465:GLY:N	2.24	0.52
1:A:657:TYR:CE2	1:A:665:PRO:HB3	2.44	0.52
1:A:862:THR:HG22	1:A:864:LEU:HG	1.92	0.52
1:A:878:ARG:HH12	9:I:66:VAL:HA	1.74	0.52
2:B:340:ALA:O	2:B:344:GLN:HB2	2.08	0.52
2:B:420:TYR:HB2	2:B:457:ILE:HD11	1.91	0.52
2:B:1016:GLY:O	3:C:69:ARG:NH2	2.41	0.52
2:B:1017:ALA:HA	3:C:69:ARG:NH2	2.24	0.52
2:B:1167:PHE:CG	2:B:1168:VAL:N	2.77	0.52
3:C:171:PRO:HB2	3:C:176:SER:HA	1.91	0.52
7:G:35:SER:C	7:G:37:CYS:H	2.18	0.52
7:G:59:GLN:HE21	7:G:63:LYS:HE3	1.75	0.52
7:G:95:LEU:N	7:G:95:LEU:CD1	2.73	0.52
13:M:81:PHE:CZ	13:M:83:PRO:HA	2.45	0.52
15:O:174:TRP:O	17:Q:198:LEU:HG	2.10	0.52
15:O:302:VAL:CA	15:O:320:ILE:HG13	2.40	0.52
15:O:389:TRP:N	17:Q:150:GLN:OE1	2.41	0.52
15:O:468:VAL:CG2	15:O:477:TYR:HB3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:529:GLU:CG	15:O:530:ASN:H	2.23	0.52
15:O:613:HIS:CD2	15:O:619:GLU:HG2	2.44	0.52
16:P:203:TRP:HA	16:P:206:GLN:HG3	1.90	0.52
16:P:239:PHE:CD2	16:P:243:PHE:CZ	2.97	0.52
17:Q:398:ASP:OD1	17:Q:401:ILE:HG13	2.10	0.52
1:A:321:LYS:HB2	1:A:356:PHE:CD2	2.45	0.52
1:A:473:GLY:C	2:B:1070:ARG:HH21	2.18	0.52
1:A:1114:TYR:O	1:A:1116:GLN:HG3	2.10	0.52
1:A:1136:VAL:HG12	1:A:1174:TYR:CE2	2.45	0.52
1:A:1527:GLN:HG3	1:A:1530:TRP:CE3	2.44	0.52
2:B:23:SER:HA	2:B:26:ILE:HG22	1.90	0.52
2:B:30:LYS:HA	2:B:178:TYR:HB2	1.92	0.52
2:B:211:ARG:HH21	2:B:647:SER:HB2	1.74	0.52
2:B:658:LEU:O	2:B:660:LYS:HG3	2.10	0.52
2:B:1132:SER:HB3	2:B:1163:GLN:CG	2.39	0.52
6:F:83:PRO:HB2	6:F:152:ILE:HD12	1.91	0.52
6:F:86:THR:OG1	6:F:89:GLU:HG3	2.10	0.52
8:H:110:ASP:OD2	8:H:128:ASN:HB2	2.10	0.52
9:I:30:CYS:O	9:I:33:CYS:O	2.27	0.52
11:K:49:LEU:CD1	11:K:61:ALA:HB1	2.40	0.52
15:O:206:ALA:HA	15:O:214:LEU:CD2	2.31	0.52
15:O:214:LEU:N	15:O:236:ILE:CB	2.68	0.52
15:O:275:GLU:CB	15:O:285:MET:CG	2.85	0.52
15:O:354:PRO:HB2	17:Q:131:TYR:CE2	2.43	0.52
15:O:471:MET:C	15:O:504:THR:HG21	2.34	0.52
15:O:700:LEU:HD11	15:O:711:LEU:CA	2.34	0.52
16:P:214:ILE:O	16:P:214:ILE:HG12	2.10	0.52
16:P:227:TYR:CE2	16:P:304:LEU:CD2	2.93	0.52
1:A:67:LEU:CB	1:A:72:CYS:CA	2.88	0.52
1:A:627:ASP:C	1:A:629:ASP:H	2.18	0.52
1:A:728:GLY:O	1:A:731:ILE:HB	2.09	0.52
1:A:747:ILE:HG22	1:A:774:GLY:HA2	1.92	0.52
1:A:1313:LEU:HG	1:A:1317:ILE:CD1	2.39	0.52
2:B:1126:VAL:HB	2:B:1166:LYS:CE	2.40	0.52
3:C:55:ASP:HA	3:C:298:PHE:O	2.09	0.52
3:C:95:GLU:HG3	12:L:67:PHE:HE2	1.75	0.52
5:E:37:LEU:HD11	5:E:41:ASP:OD2	2.10	0.52
5:E:180:ARG:NH1	5:E:190:LEU:O	2.43	0.52
15:O:290:GLU:HG2	15:O:338:LYS:HA	1.92	0.52
15:O:299:ASP:HB2	17:Q:159:TYR:HD2	1.63	0.52
15:O:356:GLU:CA	17:Q:24:ILE:HD11	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:472:ARG:NH1	17:Q:203:SER:HB3	2.21	0.52
15:O:474:LYS:HE2	15:O:498:LEU:CG	2.39	0.52
15:O:604:ILE:HA	15:O:732:LEU:HD21	1.90	0.52
15:O:657:SER:O	15:O:658:LYS:HD3	2.09	0.52
15:O:707:ASP:C	15:O:709:PRO:CD	2.83	0.52
16:P:176:VAL:CG2	16:P:177:TYR:N	2.73	0.52
16:P:227:TYR:OH	16:P:301:HIS:HB2	2.08	0.52
17:Q:283:ARG:CA	17:Q:302:ARG:HA	2.39	0.52
1:A:79:ILE:O	1:A:81:LEU:HD23	2.09	0.52
1:A:189:VAL:HG12	1:A:193:ILE:CD1	2.40	0.52
1:A:216:ARG:CZ	1:A:341:SER:HB3	2.40	0.52
1:A:481:ARG:NH2	1:A:632:GLU:OE1	2.43	0.52
1:A:484:ILE:HG21	1:A:633:MET:HG3	1.91	0.52
1:A:563:THR:OG1	1:A:575:LYS:HE3	2.10	0.52
1:A:592:GLN:N	1:A:593:PRO:CD	2.72	0.52
1:A:681:THR:O	1:A:780:ILE:HG22	2.09	0.52
1:A:1119:LYS:CG	1:A:1120:TYR:CD2	2.93	0.52
1:A:1148:LEU:HA	1:A:1155:PHE:HE2	1.75	0.52
1:A:1255:CYS:SG	1:A:1519:LEU:HD13	2.50	0.52
2:B:186:GLU:CD	2:B:731:VAL:H	2.18	0.52
2:B:327:LEU:HD13	2:B:347:LEU:CD1	2.40	0.52
2:B:383:SER:HA	2:B:388:GLU:OE2	2.10	0.52
2:B:1176:VAL:C	2:B:1179:PRO:HD2	2.35	0.52
3:C:86:PHE:O	12:L:63:ARG:N	2.42	0.52
3:C:154:LYS:HE3	3:C:161:HIS:ND1	2.25	0.52
3:C:311:GLU:OE1	3:C:311:GLU:N	2.38	0.52
5:E:170:LEU:HD12	5:E:170:LEU:C	2.35	0.52
9:I:2:SER:HG	9:I:9:PHE:HB2	1.75	0.52
11:K:59:THR:O	11:K:106:GLN:HA	2.09	0.52
15:O:312:LEU:O	15:O:312:LEU:CD1	2.55	0.52
15:O:317:ILE:HG22	15:O:363:ILE:HD11	1.92	0.52
15:O:347:LEU:CD1	15:O:390:GLN:HE22	2.23	0.52
15:O:357:LEU:CD1	15:O:377:ARG:CZ	2.87	0.52
15:O:408:ILE:HD13	15:O:464:LEU:HD13	1.92	0.52
15:O:436:ILE:CG2	17:Q:141:TRP:CE2	2.93	0.52
15:O:659:LEU:HD22	15:O:659:LEU:H	1.71	0.52
15:O:780:ILE:HB	16:P:199:LEU:HD11	1.92	0.52
16:P:195:ALA:N	16:P:216:GLU:O	2.43	0.52
16:P:207:LEU:O	16:P:209:ASN:OD1	2.28	0.52
16:P:287:TRP:HZ2	16:P:298:VAL:CG1	2.23	0.52
16:P:417:PHE:O	16:P:419:LEU:HD23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:485:SER:O	16:P:489:VAL:CG2	2.52	0.52
17:Q:383:PHE:CD2	17:Q:388:LYS:HB3	2.45	0.52
1:A:530:TRP:C	1:A:532:GLY:N	2.68	0.52
1:A:654:ASP:OD1	1:A:807:ALA:HB2	2.10	0.52
1:A:763:GLY:HA3	8:H:25:ARG:NH2	2.25	0.52
1:A:1490:GLU:HG2	9:I:55:ALA:HB2	1.92	0.52
2:B:42:VAL:HG12	2:B:500:PHE:CB	2.40	0.52
2:B:554:GLN:HA	2:B:646:HIS:CD2	2.45	0.52
2:B:567:SER:O	14:N:141:GLU:HB2	2.10	0.52
2:B:607:THR:HG22	14:N:143:ALA:HB3	1.91	0.52
2:B:677:THR:H	2:B:680:GLU:CD	2.18	0.52
2:B:944:GLN:OE1	2:B:944:GLN:N	2.43	0.52
2:B:1039:MET:HG3	2:B:1041:ASN:HB3	1.91	0.52
2:B:1131:CYS:O	2:B:1163:GLN:HA	2.09	0.52
3:C:57:ILE:HG12	3:C:297:HIS:CE1	2.44	0.52
5:E:5:ASN:ND2	5:E:50:MET:O	2.43	0.52
7:G:15:ARG:CG	7:G:19:LYS:HD2	2.38	0.52
7:G:145:ILE:HD11	7:G:217:TRP:HE3	1.74	0.52
10:J:36:LEU:CD2	10:J:41:LEU:HD12	2.32	0.52
10:J:41:LEU:CD2	10:J:46:CYS:HB3	2.39	0.52
11:K:54:THR:HA	11:K:61:ALA:HA	1.91	0.52
15:O:205:TYR:CD2	15:O:215:ASN:CB	2.93	0.52
15:O:641:TRP:HD1	15:O:748:GLU:CG	2.23	0.52
16:P:120:ILE:O	16:P:124:ARG:N	2.42	0.52
16:P:223:ASN:HA	16:P:492:ALA:C	2.25	0.52
16:P:442:LEU:HD11	16:P:446:TYR:CZ	2.45	0.52
1:A:544:VAL:CG1	1:A:549:MET:HE1	2.39	0.51
1:A:587:VAL:HG22	1:A:636:HIS:O	2.11	0.51
1:A:1475:GLU:O	1:A:1476:LEU:HD23	2.10	0.51
2:B:50:ASN:CG	2:B:168:ASN:HB2	2.35	0.51
2:B:129:ARG:O	2:B:131:THR:HG23	2.10	0.51
2:B:565:LEU:HB3	2:B:570:VAL:HG21	1.91	0.51
2:B:661:GLU:HA	2:B:691:PHE:HZ	1.75	0.51
2:B:1172:GLU:HG3	2:B:1175:THR:OG1	2.10	0.51
3:C:148:LYS:NZ	3:C:155:GLU:CD	2.68	0.51
3:C:161:HIS:HB3	3:C:163:TYR:CZ	2.45	0.51
5:E:127:ILE:O	5:E:129:PRO:CG	2.57	0.51
5:E:191:LYS:O	5:E:194:GLU:HG2	2.09	0.51
7:G:166:TRP:CZ3	7:G:225:ILE:CG2	2.86	0.51
11:K:73:GLY:O	11:K:77:ARG:HG2	2.10	0.51
14:N:27:ASP:C	14:N:29:PHE:H	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:253:SER:O	15:O:254:ILE:HG13	2.10	0.51
15:O:771:ILE:CG2	16:P:105:LEU:CD2	2.70	0.51
16:P:235:GLY:HA2	16:P:289:ARG:CD	2.40	0.51
16:P:316:TRP:O	16:P:319:SER:N	2.41	0.51
16:P:375:LEU:CD1	17:Q:231:LEU:HD21	2.30	0.51
16:P:490:ASP:C	16:P:491:PHE:HD1	2.16	0.51
17:Q:217:THR:O	17:Q:221:HIS:CD2	2.63	0.51
17:Q:385:ASN:O	17:Q:389:ASN:C	2.53	0.51
1:A:35:PRO:HA	1:A:390:LEU:HD12	1.92	0.51
1:A:62:CYS:HB3	1:A:72:CYS:SG	2.48	0.51
1:A:627:ASP:HB2	2:B:785:ASP:OD2	2.09	0.51
1:A:680:LEU:HD12	1:A:820:TYR:CG	2.44	0.51
1:A:1587:ASP:HA	1:A:1590:THR:OG1	2.10	0.51
2:B:95:LEU:HD13	2:B:145:VAL:HG22	1.92	0.51
2:B:226:GLY:C	2:B:229:TYR:HD2	2.18	0.51
2:B:328:GLN:O	2:B:332:ASP:CB	2.58	0.51
2:B:335:ARG:HD2	2:B:341:SER:HA	1.92	0.51
2:B:861:TYR:CE2	2:B:870:LYS:HB2	2.45	0.51
3:C:100:ARG:NH1	10:J:2:ILE:HG23	2.25	0.51
3:C:136:LEU:CD2	3:C:138:VAL:HG23	2.40	0.51
3:C:152:ASP:O	3:C:154:LYS:N	2.42	0.51
7:G:145:ILE:HD11	7:G:217:TRP:CE3	2.45	0.51
10:J:1:MET:HE1	10:J:60:PHE:CD2	2.39	0.51
13:M:44:LYS:HA	13:M:49:ASP:OD1	2.10	0.51
15:O:214:LEU:HD11	15:O:242:ILE:HD13	1.92	0.51
15:O:366:PHE:CE1	15:O:414:ILE:HD11	2.45	0.51
15:O:582:ASP:CG	15:O:583:GLU:H	2.18	0.51
15:O:604:ILE:CA	15:O:732:LEU:CD2	2.83	0.51
16:P:222:PHE:HB3	16:P:223:ASN:OD1	2.11	0.51
16:P:274:ILE:HG23	16:P:278:GLU:CD	2.35	0.51
16:P:375:LEU:HD23	16:P:375:LEU:C	2.34	0.51
1:A:35:PRO:HG3	1:A:394:LEU:HD12	1.93	0.51
1:A:127:TYR:C	1:A:207:SER:HB2	2.34	0.51
1:A:712:ILE:HB	11:K:106:GLN:NE2	2.25	0.51
1:A:1461:ASN:OD1	1:A:1469:TRP:HH2	1.94	0.51
2:B:683:ASN:CA	14:N:154:ARG:HH22	2.22	0.51
3:C:132:ILE:HG23	3:C:169:PHE:HE1	1.73	0.51
4:D:88:GLN:CD	4:D:91:ARG:HD2	2.36	0.51
5:E:172:GLU:HB3	5:E:213:ILE:CD1	2.39	0.51
5:E:200:ARG:CZ	5:E:208:TYR:CD2	2.93	0.51
6:F:82:THR:HG23	6:F:136:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:126:GLN:HG3	7:G:126:GLN:O	2.11	0.51
8:H:102:TYR:CE1	8:H:115:TYR:HB3	2.45	0.51
9:I:25:GLY:O	9:I:26:SER:C	2.52	0.51
11:K:79:VAL:O	11:K:82:LYS:HB2	2.10	0.51
15:O:401:ASN:N	15:O:419:ARG:HG2	2.17	0.51
15:O:772:ILE:HD12	16:P:138:LEU:CD2	2.28	0.51
16:P:105:LEU:HD21	16:P:109:GLN:NE2	2.25	0.51
16:P:343:THR:OG1	16:P:347:SER:CA	2.59	0.51
16:P:360:LYS:NZ	16:P:360:LYS:CB	2.73	0.51
17:Q:358:PHE:CD1	17:Q:365:TRP:CZ3	2.97	0.51
1:A:222:GLU:OE2	1:A:226:LYS:HE2	2.10	0.51
1:A:1056:ASP:CG	1:A:1058:THR:HG1	2.19	0.51
1:A:1129:PRO:HA	1:A:1135:SER:HB3	1.93	0.51
2:B:416:LYS:NZ	2:B:460:LYS:HD3	2.25	0.51
2:B:438:ILE:CG2	2:B:445:TYR:CD1	2.93	0.51
2:B:858:ILE:HG12	2:B:874:TYR:HB2	1.92	0.51
2:B:1105:ARG:CD	2:B:1167:PHE:HB2	2.33	0.51
5:E:16:PHE:HE1	5:E:60:PHE:CE1	2.28	0.51
5:E:54:GLN:HG3	5:E:57:MET:CE	2.40	0.51
7:G:168:PHE:CD1	7:G:217:TRP:CD1	2.92	0.51
10:J:30:LEU:HD21	10:J:34:THR:CG2	2.40	0.51
14:N:96:GLU:O	14:N:105:SER:HB3	2.09	0.51
15:O:188:GLN:O	15:O:196:TYR:CE1	2.63	0.51
15:O:313:GLN:HB3	15:O:315:PHE:CD2	2.44	0.51
15:O:369:PHE:CZ	15:O:430:ASN:O	2.63	0.51
15:O:373:LEU:O	15:O:375:PHE:HE1	1.91	0.51
15:O:418:SER:OG	15:O:419:ARG:O	2.24	0.51
15:O:471:MET:O	15:O:504:THR:HB	2.11	0.51
15:O:714:PHE:CZ	15:O:734:LYS:HE2	2.45	0.51
16:P:123:MET:CA	16:P:125:PHE:CE1	2.88	0.51
16:P:151:GLU:HG3	16:P:151:GLU:O	2.10	0.51
16:P:211:TYR:CE1	16:P:212:VAL:CG2	2.90	0.51
16:P:357:TYR:CA	16:P:366:TYR:OH	2.58	0.51
17:Q:124:GLU:CG	17:Q:289:ASN:HD21	2.21	0.51
17:Q:387:ASN:ND2	17:Q:392:LEU:HA	2.25	0.51
1:A:406:LEU:CD1	1:A:413:LEU:HD11	2.41	0.51
1:A:406:LEU:HD13	1:A:416:ARG:CZ	2.39	0.51
1:A:527:PRO:HG3	1:A:546:LEU:O	2.10	0.51
1:A:791:TYR:H	1:A:791:TYR:HD1	1.55	0.51
1:A:1123:VAL:CG2	1:A:1135:SER:HA	2.41	0.51
2:B:126:SER:OG	2:B:133:TYR:HD1	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:366:GLY:O	2:B:370:LYS:N	2.34	0.51
2:B:553:THR:O	2:B:646:HIS:HD2	1.93	0.51
2:B:994:ASP:OD1	2:B:1007:TYR:OH	2.28	0.51
2:B:1113:THR:CG2	2:B:1166:LYS:HD2	2.38	0.51
2:B:1126:VAL:HB	2:B:1166:LYS:NZ	2.26	0.51
3:C:120:LEU:HD12	3:C:121:PRO:O	2.11	0.51
3:C:128:ASP:CB	3:C:175:GLN:HE22	2.22	0.51
11:K:53:ALA:O	11:K:104:ARG:NH1	2.41	0.51
13:M:76:TYR:HE1	14:N:57:LYS:HE2	1.75	0.51
15:O:214:LEU:HD12	15:O:263:ILE:HD13	1.91	0.51
15:O:225:LEU:CD1	15:O:225:LEU:H	2.11	0.51
15:O:396:ALA:HB3	17:Q:140:ILE:HD12	1.91	0.51
15:O:414:ILE:HG22	15:O:415:LEU:N	2.24	0.51
15:O:446:ASP:OD1	15:O:446:ASP:C	2.54	0.51
15:O:458:LYS:HB3	15:O:459:PRO:HD2	1.92	0.51
15:O:657:SER:HB2	15:O:746:ARG:HA	1.92	0.51
15:O:713:ILE:CG2	15:O:717:LYS:HE2	2.40	0.51
1:A:110:LEU:CD2	1:A:115:VAL:CG2	2.87	0.51
1:A:335:LEU:HD23	1:A:338:VAL:CG1	2.40	0.51
1:A:402:ASP:O	1:A:406:LEU:CB	2.59	0.51
1:A:403:LEU:HD23	1:A:407:GLN:NE2	2.20	0.51
1:A:441:THR:HG23	1:A:458:GLN:NE2	2.24	0.51
1:A:957:VAL:HG13	1:A:958:PRO:HD2	1.92	0.51
1:A:969:PHE:CE2	1:A:978:ALA:HA	2.46	0.51
1:A:1264:SER:N	1:A:1493:CYS:O	2.44	0.51
2:B:30:LYS:HG2	2:B:178:TYR:CB	2.41	0.51
2:B:547:HIS:CE1	2:B:548:LYS:CD	2.89	0.51
3:C:68:ARG:HD3	3:C:227:TYR:CD2	2.46	0.51
3:C:278:GLU:OE2	3:C:281:ARG:HD3	2.09	0.51
7:G:29:ASP:C	7:G:31:LYS:H	2.18	0.51
8:H:3:ASN:N	8:H:62:SER:HG	2.09	0.51
9:I:11:LEU:HD11	13:M:31:ARG:HD3	1.92	0.51
13:M:80:LEU:HD13	14:N:53:VAL:CG2	2.40	0.51
13:M:109:ARG:HG2	13:M:110:GLY:N	2.26	0.51
15:O:194:ARG:CB	15:O:197:ARG:HH12	2.23	0.51
15:O:408:ILE:O	15:O:409:ASP:CB	2.59	0.51
15:O:422:ILE:HB	15:O:440:HIS:CG	2.46	0.51
15:O:573:GLU:CB	16:P:499:LYS:HZ2	2.22	0.51
16:P:177:TYR:OH	16:P:226:LEU:HB3	2.08	0.51
16:P:178:THR:HG23	16:P:179:CYS:N	2.24	0.51
16:P:208:PRO:O	16:P:209:ASN:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:313:THR:O	16:P:317:MET:HB2	2.11	0.51
17:Q:133:LYS:CB	17:Q:286:GLN:CG	2.89	0.51
1:A:78:HIS:HA	1:A:361:VAL:HA	1.93	0.51
1:A:589:MET:HB2	1:A:603:HIS:CD2	2.46	0.51
1:A:1050:TYR:C	1:A:1052:GLY:H	2.19	0.51
1:A:1242:ILE:HG12	1:A:1517:ARG:O	2.11	0.51
1:A:1288:ARG:HD3	1:A:1290:TYR:OH	2.11	0.51
2:B:129:ARG:HG2	2:B:131:THR:HG21	1.92	0.51
2:B:501:ARG:HE	2:B:545:PHE:HB2	1.76	0.51
2:B:850:THR:O	2:B:881:TYR:HA	2.11	0.51
2:B:890:ASP:C	2:B:892:SER:H	2.18	0.51
9:I:8:ILE:O	9:I:16:LEU:HD12	2.11	0.51
15:O:420:GLU:CA	15:O:442:LEU:HD11	2.41	0.51
15:O:488:LEU:HD21	15:O:490:GLN:HG2	1.93	0.51
15:O:693:PHE:C	15:O:693:PHE:CD1	2.87	0.51
15:O:747:LEU:CG	15:O:748:GLU:H	2.18	0.51
1:A:241:PRO:HG3	1:A:253:GLU:HG3	1.93	0.51
1:A:956:ARG:NH1	1:A:979:GLY:HA2	2.26	0.51
1:A:1049:MET:CE	1:A:1124:LEU:HB3	2.36	0.51
1:A:1118:VAL:C	1:A:1120:TYR:N	2.69	0.51
2:B:678:PRO:HA	2:B:681:ILE:HD11	1.90	0.51
2:B:714:ARG:CZ	2:B:957:ARG:HG2	2.41	0.51
2:B:819:ASP:OD1	2:B:819:ASP:N	2.44	0.51
3:C:152:ASP:OD1	3:C:154:LYS:C	2.47	0.51
5:E:113:GLN:HA	5:E:137:GLU:OE1	2.10	0.51
7:G:139:ILE:HG13	7:G:146:GLY:H	1.75	0.51
8:H:96:VAL:HA	8:H:142:LEU:O	2.11	0.51
10:J:30:LEU:HD21	10:J:34:THR:CB	2.41	0.51
12:L:51:CYS:SG	12:L:53:HIS:HB2	2.51	0.51
15:O:215:ASN:CA	15:O:236:ILE:CG1	2.89	0.51
15:O:326:ILE:HG22	15:O:327:GLY:N	2.25	0.51
15:O:415:LEU:HD13	15:O:453:VAL:CG1	2.21	0.51
15:O:428:GLU:N	15:O:428:GLU:OE1	2.42	0.51
15:O:472:ARG:HH11	17:Q:203:SER:CB	2.24	0.51
15:O:537:PHE:HE1	15:O:552:LEU:CD1	2.24	0.51
15:O:725:VAL:HG21	16:P:449:GLN:CG	2.41	0.51
15:O:760:ILE:HG12	16:P:138:LEU:HB3	1.91	0.51
15:O:769:GLN:O	15:O:772:ILE:CG2	2.58	0.51
16:P:337:SER:OG	16:P:448:LYS:CD	2.59	0.51
1:A:110:LEU:HD23	1:A:115:VAL:CG2	2.37	0.51
1:A:411:VAL:CG1	1:A:412:SER:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:GLU:OE1	1:A:1618:THR:OG1	2.19	0.51
1:A:520:ARG:CG	1:A:561:LEU:HD12	2.33	0.51
1:A:913:PRO:HB3	1:A:926:GLN:HE22	1.73	0.51
1:A:1119:LYS:CE	1:A:1120:TYR:CZ	2.94	0.51
2:B:415:GLU:HG2	2:B:472:SER:CB	2.40	0.51
2:B:464:PHE:HE1	2:B:471:VAL:HG22	1.74	0.51
2:B:826:GLY:O	2:B:869:THR:HG23	2.11	0.51
2:B:1051:PRO:C	2:B:1060:VAL:HG13	2.36	0.51
7:G:97:LYS:NZ	7:G:99:ASP:CB	2.74	0.51
7:G:140:GLN:HG2	7:G:145:ILE:HG12	1.93	0.51
9:I:8:ILE:CD1	9:I:37:TYR:OH	2.58	0.51
14:N:54:TRP:HA	14:N:135:LYS:O	2.10	0.51
15:O:205:TYR:O	15:O:215:ASN:N	2.44	0.51
15:O:326:ILE:H	15:O:344:ILE:CD1	2.23	0.51
17:Q:230:SER:HA	17:Q:233:TYR:CZ	2.38	0.51
1:A:203:THR:HG23	1:A:205:ARG:H	1.74	0.51
1:A:416:ARG:HD2	1:A:419:ILE:CG1	2.15	0.51
1:A:600:MET:CE	2:B:1079:LEU:HD21	2.34	0.51
1:A:657:TYR:CE2	1:A:658:LEU:HD21	2.45	0.51
1:A:672:ASP:OD1	2:B:777:SER:HB2	2.11	0.51
1:A:1113:HIS:ND1	1:A:1114:TYR:CD1	2.78	0.51
1:A:1641:ILE:CD1	2:B:1076:ARG:HH11	2.23	0.51
2:B:21:ARG:NH1	10:J:54:VAL:HG13	2.26	0.51
2:B:21:ARG:NH1	10:J:54:VAL:HA	2.26	0.51
2:B:228:SER:O	2:B:253:LEU:HA	2.10	0.51
2:B:830:ASP:OD1	2:B:834:LYS:NZ	2.40	0.51
2:B:854:GLU:CG	2:B:875:HIS:HA	2.41	0.51
2:B:1127:CYS:SG	2:B:1163:GLN:HG3	2.51	0.51
3:C:257:GLY:O	3:C:266:TYR:N	2.43	0.51
5:E:56:LYS:HG3	5:E:84:ASP:HB2	1.93	0.51
5:E:87:SER:HA	5:E:115:ASN:OD1	2.11	0.51
5:E:103:LYS:HD3	5:E:105:PHE:CZ	2.46	0.51
7:G:137:ILE:N	7:G:227:GLY:O	2.40	0.51
8:H:38:LEU:HG	8:H:39:THR:N	2.25	0.51
8:H:43:ASN:ND2	8:H:46:LEU:HD13	2.26	0.51
9:I:34:LYS:CG	13:M:59:ARG:HD3	2.41	0.51
13:M:31:ARG:NH2	14:N:128:ASN:HB3	2.26	0.51
15:O:354:PRO:CB	17:Q:131:TYR:CZ	2.80	0.51
15:O:356:GLU:HB2	17:Q:24:ILE:HD11	1.92	0.51
15:O:504:THR:H	15:O:542:ARG:HB3	1.76	0.51
16:P:104:PHE:HE2	16:P:155:GLN:CA	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:183:LYS:CD	16:P:189:LYS:HZ1	2.05	0.51
1:A:109:ARG:C	1:A:230:ARG:HG3	2.36	0.50
1:A:263:ASN:HA	1:A:266:VAL:HG22	1.92	0.50
1:A:956:ARG:HG2	1:A:957:VAL:N	2.25	0.50
2:B:212:ASN:OD1	2:B:239:VAL:HG22	2.10	0.50
2:B:726:MET:HE2	2:B:1035:ARG:HB3	1.92	0.50
2:B:1175:THR:O	2:B:1179:PRO:HD3	2.09	0.50
3:C:215:ASP:C	3:C:215:ASP:OD1	2.52	0.50
3:C:255:VAL:CG2	3:C:272:LYS:HB2	2.40	0.50
6:F:112:GLU:HG2	6:F:123:LYS:HZ2	1.76	0.50
8:H:65:LEU:HD22	8:H:88:SER:HA	1.93	0.50
10:J:3:VAL:HG13	10:J:3:VAL:O	2.11	0.50
15:O:214:LEU:CB	15:O:236:ILE:CG2	2.11	0.50
15:O:216:ILE:C	15:O:234:THR:OG1	2.54	0.50
15:O:260:LEU:HD12	15:O:271:ILE:CG2	2.39	0.50
15:O:554:ASN:C	15:O:555:THR:HG23	2.36	0.50
16:P:95:LEU:CD2	16:P:100:ALA:N	2.73	0.50
16:P:259:GLN:NE2	16:P:259:GLN:HA	2.26	0.50
16:P:309:TYR:O	16:P:313:THR:OG1	2.23	0.50
17:Q:246:GLN:O	17:Q:248:LYS:CB	2.59	0.50
17:Q:353:VAL:CG2	17:Q:358:PHE:CZ	2.93	0.50
17:Q:393:ILE:HG12	17:Q:395:LEU:CB	2.41	0.50
1:A:466:LEU:HD23	1:A:471:MET:CG	2.41	0.50
1:A:509:GLU:CG	1:A:519:LEU:HD11	2.42	0.50
1:A:1123:VAL:HG11	1:A:1136:VAL:H	1.77	0.50
1:A:1545:ASP:O	1:A:1549:VAL:HG23	2.12	0.50
1:A:1648:ASN:O	1:A:1653:SER:HA	2.11	0.50
2:B:62:ASN:HA	2:B:65:VAL:HG22	1.92	0.50
2:B:74:PHE:CE1	2:B:94:LYS:HB2	2.45	0.50
2:B:217:ILE:HD11	2:B:222:PHE:HZ	1.76	0.50
2:B:226:GLY:O	2:B:229:TYR:HD2	1.94	0.50
2:B:555:GLN:HE21	2:B:558:VAL:HG11	1.76	0.50
2:B:773:VAL:HG21	2:B:1033:TYR:CE2	2.33	0.50
5:E:94:LYS:CB	5:E:123:LEU:HD13	2.41	0.50
5:E:97:VAL:HG13	5:E:132:ILE:CD1	2.41	0.50
8:H:48:PRO:CG	8:H:146:ARG:HH12	2.24	0.50
13:M:10:ILE:HD12	14:N:54:TRP:HH2	1.76	0.50
14:N:45:LYS:N	14:N:49:LYS:HG2	2.26	0.50
15:O:60:UNK:C	15:O:226:HIS:HE1	2.23	0.50
15:O:271:ILE:H	15:O:289:SER:HB2	1.76	0.50
15:O:302:VAL:HA	15:O:320:ILE:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:380:MET:SD	15:O:416:LEU:CD2	2.99	0.50
15:O:410:ASP:O	15:O:411:LYS:CB	2.59	0.50
15:O:416:LEU:HD12	15:O:417:THR:N	2.26	0.50
15:O:446:ASP:OD1	15:O:448:THR:N	2.34	0.50
15:O:573:GLU:CB	16:P:495:LYS:NZ	2.74	0.50
16:P:167:LEU:C	16:P:170:THR:HG23	2.36	0.50
16:P:211:TYR:HA	16:P:214:ILE:CG2	2.42	0.50
1:A:1294:MET:HE1	1:A:1321:PHE:CZ	2.46	0.50
1:A:1326:GLU:HG3	1:A:1456:PHE:CD2	2.46	0.50
1:A:1657:LEU:HD23	7:G:105:ILE:C	2.36	0.50
1:A:1662:ASN:ND2	7:G:103:LYS:HE3	2.26	0.50
2:B:108:MET:HB3	2:B:118:GLU:HB3	1.93	0.50
2:B:655:TYR:CD1	2:B:657:PRO:HD2	2.46	0.50
2:B:1086:PHE:HZ	6:F:92:ARG:CZ	2.23	0.50
7:G:169:VAL:HG23	7:G:216:HIS:CB	2.40	0.50
13:M:77:VAL:HG21	14:N:64:ILE:CG1	2.30	0.50
14:N:80:MET:SD	14:N:89:ILE:HD11	2.51	0.50
15:O:194:ARG:C	15:O:196:TYR:CD2	2.86	0.50
15:O:346:ASN:HD21	17:Q:155:GLN:HB2	1.74	0.50
15:O:436:ILE:HG22	17:Q:141:TRP:CH2	2.41	0.50
15:O:672:ILE:N	15:O:673:PRO:CD	2.73	0.50
16:P:222:PHE:HE1	17:Q:206:ARG:NH2	2.10	0.50
16:P:287:TRP:CH2	16:P:298:VAL:HG21	2.47	0.50
16:P:315:ASN:OD1	16:P:315:ASN:C	2.54	0.50
17:Q:257:ILE:O	17:Q:261:LEU:HB2	2.10	0.50
1:A:406:LEU:HB2	1:A:416:ARG:HH11	1.77	0.50
1:A:558:ALA:HA	1:A:561:LEU:CD1	2.41	0.50
1:A:720:PHE:HB2	8:H:96:VAL:CG1	2.42	0.50
1:A:1060:GLU:O	1:A:1063:MET:HG2	2.12	0.50
1:A:1238:MET:HA	1:A:1543:SER:OG	2.12	0.50
1:A:1440:ASN:ND2	1:A:1443:GLN:HG3	2.26	0.50
2:B:438:ILE:HD11	2:B:442:ASP:CB	2.40	0.50
2:B:698:SER:O	2:B:702:ASN:ND2	2.44	0.50
2:B:857:PRO:HB3	2:B:871:ILE:CD1	2.42	0.50
2:B:1106:GLU:HG3	2:B:1165:ASN:ND2	2.26	0.50
3:C:99:HIS:NE2	3:C:103:LEU:HD11	2.26	0.50
3:C:163:TYR:CE1	3:C:192:LEU:HD13	2.46	0.50
7:G:248:THR:OG1	7:G:250:ILE:HG12	2.11	0.50
10:J:30:LEU:HG	10:J:31:ASP:N	2.26	0.50
15:O:414:ILE:O	15:O:424:VAL:HB	2.12	0.50
15:O:421:ILE:HG22	15:O:439:LYS:HG3	1.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:573:GLU:HB2	16:P:495:LYS:NZ	2.26	0.50
15:O:698:LYS:HE3	16:P:126:PRO:HD3	1.89	0.50
15:O:780:ILE:N	16:P:199:LEU:HD11	2.26	0.50
16:P:183:LYS:CD	16:P:189:LYS:HD2	2.42	0.50
16:P:227:TYR:CD2	16:P:301:HIS:ND1	2.74	0.50
16:P:257:VAL:O	16:P:262:LEU:CB	2.59	0.50
16:P:482:HIS:O	16:P:485:SER:HB2	2.10	0.50
17:Q:279:SER:OG	17:Q:281:LYS:HG3	2.10	0.50
19:S:16:DG:O6	20:T:38:DA:N6	2.44	0.50
1:A:123:ARG:HD3	1:A:189:VAL:HG11	1.93	0.50
1:A:505:LEU:HD23	2:B:1048:SER:OG	2.11	0.50
1:A:793:ILE:HG23	1:A:794:VAL:N	2.26	0.50
2:B:154:GLU:HG3	2:B:156:ARG:HG2	1.93	0.50
2:B:261:ARG:HH22	2:B:268:GLU:CD	2.16	0.50
2:B:280:LEU:C	2:B:323:ARG:HE	2.20	0.50
2:B:527:PHE:O	2:B:528:LEU:HD23	2.11	0.50
2:B:600:GLN:O	2:B:604:ILE:HG13	2.12	0.50
2:B:625:GLU:OE2	2:B:665:GLY:HA3	2.11	0.50
2:B:848:ILE:CG2	12:L:60:ARG:HA	2.42	0.50
2:B:866:LEU:HD12	2:B:870:LYS:HD2	1.93	0.50
4:D:88:GLN:HA	4:D:91:ARG:HD2	1.93	0.50
5:E:14:ARG:HH22	5:E:141:VAL:CG1	2.11	0.50
5:E:93:MET:HE3	5:E:97:VAL:CG2	2.41	0.50
15:O:214:LEU:CB	15:O:236:ILE:HG13	2.42	0.50
15:O:294:PHE:CD1	15:O:297:ILE:HD13	2.46	0.50
15:O:298:ASP:CB	17:Q:158:THR:HA	2.27	0.50
16:P:165:LEU:CD1	16:P:190:MET:HE1	2.42	0.50
16:P:167:LEU:CA	16:P:170:THR:HG23	2.41	0.50
16:P:355:VAL:O	17:Q:211:ARG:NH2	2.44	0.50
16:P:490:ASP:CB	16:P:491:PHE:CE1	2.89	0.50
17:Q:381:ARG:N	17:Q:384:VAL:CG2	2.70	0.50
1:A:52:LEU:HD21	1:A:60:ASN:HB2	1.93	0.50
1:A:244:ARG:HG2	1:A:245:LYS:H	1.77	0.50
1:A:672:ASP:HA	2:B:952:HIS:CE1	2.47	0.50
2:B:49:PHE:CD1	2:B:167:SER:HB2	2.47	0.50
2:B:572:PRO:CG	2:B:575:HIS:HD2	2.23	0.50
2:B:1149:GLU:OE1	7:G:238:THR:OG1	2.29	0.50
3:C:229:LEU:HB2	3:C:293:ARG:CD	2.21	0.50
7:G:45:LEU:CD1	7:G:47:VAL:HG13	2.29	0.50
15:O:270:GLN:HE21	15:O:289:SER:HB2	1.77	0.50
15:O:273:ARG:HH11	15:O:274:ILE:HG22	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:347:LEU:HD13	15:O:390:GLN:OE1	2.12	0.50
15:O:354:PRO:N	17:Q:28:SER:CB	2.75	0.50
15:O:436:ILE:CB	17:Q:141:TRP:HZ3	2.15	0.50
15:O:665:ASN:C	15:O:667:ASP:H	2.16	0.50
15:O:703:PHE:CE2	16:P:254:LEU:HD21	2.47	0.50
15:O:730:GLU:HG2	15:O:733:THR:HB	1.93	0.50
16:P:105:LEU:HD23	16:P:109:GLN:CD	2.36	0.50
16:P:157:HIS:CE1	16:P:159:THR:CG2	2.95	0.50
16:P:227:TYR:CZ	16:P:304:LEU:HD12	2.20	0.50
16:P:258:MET:CA	16:P:262:LEU:HB2	2.33	0.50
16:P:260:CYS:SG	16:P:261:ALA:N	2.85	0.50
16:P:355:VAL:HG13	16:P:366:TYR:CD1	2.46	0.50
16:P:389:GLN:NE2	16:P:390:THR:HG22	2.25	0.50
17:Q:153:ASN:O	17:Q:156:LYS:HE3	2.11	0.50
17:Q:285:VAL:HG22	17:Q:302:ARG:CD	2.41	0.50
1:A:109:ARG:CB	1:A:230:ARG:HB2	2.41	0.50
1:A:214:ASP:HB2	1:A:1605:THR:HG23	1.93	0.50
1:A:693:GLN:HB3	11:K:88:PHE:HE1	1.76	0.50
1:A:719:ILE:O	1:A:724:PRO:HA	2.12	0.50
1:A:1483:LEU:C	1:A:1483:LEU:HD12	2.37	0.50
2:B:345:SER:HA	13:M:111:PRO:O	2.12	0.50
2:B:572:PRO:HG2	13:M:76:TYR:OH	2.11	0.50
2:B:678:PRO:O	14:N:154:ARG:HA	2.12	0.50
2:B:934:ILE:HB	3:C:69:ARG:HG3	1.94	0.50
2:B:1084:THR:O	2:B:1087:LEU:N	2.44	0.50
3:C:129:GLU:HG3	3:C:174:ARG:NH2	2.27	0.50
3:C:247:PHE:HD1	3:C:285:PHE:CG	2.30	0.50
5:E:14:ARG:HH12	5:E:141:VAL:HG12	1.77	0.50
5:E:55:ARG:HA	5:E:58:MET:HB2	1.93	0.50
9:I:27:ASN:HB2	9:I:37:TYR:O	2.09	0.50
11:K:111:THR:HG22	11:K:112:THR:N	2.26	0.50
14:N:83:ASP:C	14:N:85:HIS:H	2.19	0.50
15:O:269:PHE:CE2	15:O:292:LEU:HD11	2.46	0.50
15:O:394:VAL:HG12	17:Q:141:TRP:NE1	2.26	0.50
15:O:578:PHE:CE1	16:P:312:LEU:HA	2.46	0.50
16:P:143:THR:HG21	16:P:236:MET:HE1	0.55	0.50
16:P:144:ILE:HA	16:P:147:GLN:OE1	2.11	0.50
16:P:362:THR:HG22	16:P:365:ASP:OD2	2.12	0.50
17:Q:178:LEU:HA	17:Q:185:LYS:HE2	1.93	0.50
17:Q:385:ASN:N	17:Q:385:ASN:ND2	2.60	0.50
1:A:67:LEU:HB2	1:A:72:CYS:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:CYS:O	1:A:106:HIS:HB2	2.10	0.50
1:A:113:VAL:HG11	1:A:178:LEU:HD22	1.94	0.50
1:A:252:PHE:CE1	1:A:314:TYR:CD1	2.99	0.50
1:A:372:LYS:HD2	1:A:377:VAL:CG2	2.37	0.50
1:A:423:LEU:C	1:A:423:LEU:HD13	2.37	0.50
1:A:475:ARG:HB3	2:B:1059:PRO:HB2	1.93	0.50
1:A:492:THR:HG22	1:A:617:HIS:ND1	2.27	0.50
2:B:576:THR:HG22	2:B:578:ALA:H	1.76	0.50
5:E:127:ILE:HD11	5:E:132:ILE:CD1	2.34	0.50
7:G:12:GLU:O	7:G:15:ARG:HB3	2.11	0.50
11:K:55:SER:N	11:K:60:SER:O	2.42	0.50
12:L:48:CYS:SG	12:L:51:CYS:N	2.84	0.50
13:M:66:THR:HB	13:M:71:GLN:CG	2.22	0.50
13:M:80:LEU:HB3	13:M:89:GLN:CG	2.38	0.50
15:O:366:PHE:HB2	15:O:373:LEU:HG	1.94	0.50
15:O:396:ALA:HB2	17:Q:140:ILE:HD12	1.93	0.50
15:O:584:ARG:CZ	15:O:588:SER:OG	2.59	0.50
16:P:315:ASN:O	16:P:319:SER:CA	2.59	0.50
17:Q:380:SER:O	17:Q:383:PHE:O	2.29	0.50
1:A:475:ARG:HD3	2:B:1068:GLY:O	2.12	0.50
1:A:717:PRO:HD3	1:A:726:TRP:CZ2	2.46	0.50
1:A:960:MET:CE	1:A:964:LYS:HB2	2.32	0.50
1:A:1101:THR:C	1:A:1105:ARG:HE	2.19	0.50
1:A:1447:GLN:CD	1:A:1460:TYR:H	2.19	0.50
1:A:1451:ILE:HD11	1:A:1458:THR:O	2.12	0.50
2:B:567:SER:HA	14:N:59:PRO:CG	2.42	0.50
2:B:887:LEU:HD13	12:L:56:LEU:O	2.11	0.50
5:E:127:ILE:C	5:E:129:PRO:HD3	2.17	0.50
7:G:37:CYS:HB3	7:G:127:PRO:N	2.26	0.50
13:M:60:LEU:HG	13:M:102:SER:CA	2.42	0.50
14:N:35:LEU:CG	14:N:115:SER:HA	2.41	0.50
14:N:87:TYR:CD1	14:N:141:GLU:HA	2.46	0.50
15:O:380:MET:CA	15:O:394:VAL:CG2	2.89	0.50
15:O:470:SER:O	15:O:504:THR:CG2	2.59	0.50
15:O:603:ARG:HH22	16:P:268:PHE:HB3	1.77	0.50
15:O:721:CYS:HA	16:P:443:GLN:HG3	1.93	0.50
16:P:222:PHE:HZ	17:Q:206:ARG:CG	2.25	0.50
16:P:341:ARG:CB	16:P:445:ARG:NH2	2.69	0.50
16:P:389:GLN:O	16:P:390:THR:C	2.54	0.50
16:P:479:LEU:C	16:P:479:LEU:CD2	2.82	0.50
17:Q:365:TRP:HA	17:Q:365:TRP:HE3	1.72	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:397:ARG:HB2	17:Q:397:ARG:CZ	2.42	0.50
1:A:111:LYS:CD	1:A:111:LYS:C	2.85	0.49
1:A:365:THR:O	1:A:368:ARG:N	2.40	0.49
1:A:720:PHE:CE2	8:H:63:LEU:HD11	2.47	0.49
1:A:1121:ASP:OD1	5:E:197:LYS:NZ	2.44	0.49
1:A:1272:VAL:HG11	1:A:1485:MET:HG2	1.92	0.49
2:B:210:ARG:HA	2:B:401:GLU:HG2	1.93	0.49
2:B:768:GLY:N	2:B:1032:TYR:OH	2.45	0.49
2:B:830:ASP:HA	2:B:834:LYS:NZ	2.27	0.49
2:B:832:TRP:CD1	2:B:832:TRP:H	2.30	0.49
2:B:1175:THR:O	2:B:1178:ILE:HB	2.12	0.49
3:C:215:ASP:OD1	3:C:215:ASP:O	2.29	0.49
5:E:26:ARG:NE	5:E:187:TYR:O	2.44	0.49
5:E:59:SER:OG	5:E:81:GLU:HA	2.12	0.49
7:G:37:CYS:O	7:G:126:GLN:CG	2.57	0.49
9:I:42:PHE:CD1	9:I:42:PHE:C	2.89	0.49
15:O:248:PRO:HG2	15:O:307:PHE:CD2	2.47	0.49
15:O:302:VAL:HA	15:O:320:ILE:HD11	1.94	0.49
15:O:780:ILE:C	16:P:199:LEU:CG	2.78	0.49
16:P:157:HIS:CE1	16:P:229:LYS:CB	2.94	0.49
16:P:172:LEU:C	16:P:172:LEU:CD2	2.85	0.49
16:P:256:LEU:O	16:P:259:GLN:CB	2.60	0.49
17:Q:266:SER:O	17:Q:266:SER:OG	2.26	0.49
1:A:496:GLY:HA3	1:A:608:LEU:HD12	1.94	0.49
1:A:1102:LEU:N	1:A:1105:ARG:HH21	2.09	0.49
1:A:1116:GLN:N	1:A:1116:GLN:NE2	2.60	0.49
1:A:1647:ASN:ND2	1:A:1649:VAL:HB	2.27	0.49
2:B:101:GLN:HG2	2:B:102:VAL:N	2.27	0.49
2:B:585:CYS:SG	2:B:592:ILE:HD12	2.52	0.49
2:B:896:GLN:O	12:L:46:VAL:HG23	2.12	0.49
3:C:152:ASP:CG	3:C:155:GLU:H	2.17	0.49
5:E:23:VAL:HG12	5:E:28:TYR:HB2	1.94	0.49
5:E:86:PRO:C	5:E:114:ASN:HB3	2.37	0.49
7:G:17:ILE:HG13	7:G:18:LYS:N	2.26	0.49
7:G:97:LYS:HZ1	7:G:99:ASP:CB	2.22	0.49
13:M:60:LEU:HG	13:M:102:SER:HB3	1.92	0.49
13:M:75:GLN:NE2	14:N:64:ILE:HG12	2.27	0.49
14:N:82:ILE:O	14:N:85:HIS:HB2	2.12	0.49
15:O:247:ILE:CG1	15:O:261:VAL:HG13	2.42	0.49
15:O:346:ASN:ND2	17:Q:155:GLN:HB3	2.13	0.49
15:O:408:ILE:HD11	15:O:464:LEU:HD13	1.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:702:LEU:HD11	16:P:174:LEU:CB	2.39	0.49
15:O:722:TRP:HH2	16:P:257:VAL:HG12	1.77	0.49
16:P:356:VAL:HB	17:Q:206:ARG:HH21	1.75	0.49
17:Q:424:PHE:CD2	17:Q:424:PHE:N	2.80	0.49
19:S:18:DA:C2	20:T:38:DA:C2	2.99	0.49
1:A:9:SER:HB3	2:B:1194:ILE:HD11	1.88	0.49
1:A:37:VAL:O	1:A:45:VAL:HG12	2.12	0.49
1:A:53:ALA:N	1:A:63:SER:HB2	2.26	0.49
1:A:335:LEU:CD2	1:A:338:VAL:HG11	2.42	0.49
1:A:406:LEU:HD11	1:A:413:LEU:HD11	1.94	0.49
1:A:485:SER:N	1:A:614:LEU:O	2.40	0.49
1:A:782:ASP:O	1:A:786:TYR:HD1	1.95	0.49
1:A:1147:PHE:O	1:A:1151:ASN:ND2	2.32	0.49
1:A:1261:VAL:CG1	1:A:1498:ILE:HD12	2.42	0.49
2:B:311:ARG:NH1	9:I:18:GLU:HA	2.23	0.49
2:B:588:ILE:HG23	2:B:588:ILE:O	2.12	0.49
2:B:706:PHE:CE2	2:B:752:VAL:HG11	2.44	0.49
5:E:120:ALA:O	5:E:123:LEU:HB2	2.12	0.49
5:E:202:SER:OG	5:E:204:THR:HG22	2.12	0.49
7:G:43:ILE:HD13	7:G:122:LEU:HD11	1.93	0.49
7:G:72:LYS:CA	7:G:80:VAL:HG13	2.43	0.49
7:G:236:VAL:HG13	7:G:245:VAL:HG22	1.95	0.49
8:H:5:LEU:O	8:H:133:ASN:ND2	2.45	0.49
11:K:64:GLN:NE2	11:K:100:LEU:HD13	2.27	0.49
12:L:68:GLU:O	12:L:70:ARG:N	2.44	0.49
14:N:56:ILE:CG1	14:N:137:PHE:HB2	2.42	0.49
15:O:360:TRP:O	15:O:361:LYS:HG3	2.12	0.49
15:O:573:GLU:C	16:P:499:LYS:CE	2.83	0.49
15:O:620:ASP:CG	15:O:674:GLU:CD	2.80	0.49
15:O:653:SER:O	15:O:654:LEU:C	2.55	0.49
15:O:659:LEU:N	15:O:659:LEU:CD2	2.61	0.49
15:O:718:LEU:HD21	15:O:737:VAL:HG11	1.95	0.49
15:O:753:PHE:CE1	16:P:131:HIS:HB2	2.46	0.49
16:P:143:THR:HG21	16:P:236:MET:SD	2.33	0.49
16:P:505:ILE:HG23	16:P:506:LYS:N	2.27	0.49
17:Q:285:VAL:CG2	17:Q:302:ARG:NH1	2.69	0.49
1:A:551:VAL:O	1:A:555:LYS:HG3	2.11	0.49
1:A:782:ASP:O	1:A:786:TYR:CD1	2.65	0.49
2:B:675:ALA:HB3	2:B:681:ILE:HG12	1.94	0.49
2:B:810:ASP:HA	2:B:900:THR:HG23	1.93	0.49
2:B:1053:ASN:O	2:B:1057:MET:N	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1113:THR:HG22	2:B:1166:LYS:CD	2.40	0.49
3:C:99:HIS:CE1	3:C:103:LEU:HD11	2.47	0.49
8:H:79:TRP:CH2	8:H:81:PRO:HA	2.46	0.49
10:J:12:LYS:HB2	10:J:43:ARG:NH2	2.27	0.49
12:L:51:CYS:SG	12:L:52:GLY:N	2.85	0.49
14:N:107:MET:HG3	14:N:133:PHE:HE2	1.77	0.49
15:O:248:PRO:CG	15:O:307:PHE:HD2	2.25	0.49
15:O:306:ALA:HB1	15:O:365:TRP:HE3	1.77	0.49
15:O:354:PRO:N	17:Q:28:SER:HB3	2.20	0.49
15:O:374:VAL:O	15:O:375:PHE:CD1	2.65	0.49
15:O:474:LYS:CD	15:O:499:GLU:O	2.60	0.49
15:O:529:GLU:CG	15:O:530:ASN:N	2.73	0.49
15:O:750:PRO:C	15:O:752:LEU:N	2.66	0.49
16:P:94:LYS:CG	16:P:207:LEU:CB	2.68	0.49
1:A:1113:HIS:CE1	1:A:1114:TYR:CD1	2.96	0.49
2:B:108:MET:CA	2:B:121:VAL:HG23	2.43	0.49
2:B:121:VAL:HG13	2:B:125:GLU:OE1	2.12	0.49
2:B:244:THR:HG22	2:B:411:MET:HG2	1.94	0.49
2:B:383:SER:HB3	2:B:388:GLU:HG3	1.94	0.49
2:B:813:LEU:N	2:B:813:LEU:HD13	2.27	0.49
2:B:817:ARG:C	2:B:819:ASP:OD1	2.54	0.49
3:C:59:ILE:HG12	3:C:60:ASP:H	1.77	0.49
3:C:169:PHE:CD1	3:C:184:VAL:HB	2.47	0.49
3:C:272:LYS:HE2	14:N:179:ASP:OD2	2.12	0.49
5:E:171:LYS:N	5:E:174:GLN:OE1	2.37	0.49
7:G:163:PRO:HB2	7:G:166:TRP:CD1	2.47	0.49
7:G:238:THR:HB	7:G:243:VAL:HG12	1.93	0.49
8:H:65:LEU:CD2	8:H:88:SER:HA	2.42	0.49
11:K:47:ILE:CG1	11:K:63:PHE:HB3	2.42	0.49
14:N:96:GLU:HG3	14:N:107:MET:HB2	1.93	0.49
15:O:405:TYR:HE2	15:O:414:ILE:CG2	2.24	0.49
15:O:535:VAL:O	15:O:552:LEU:N	2.45	0.49
15:O:641:TRP:CE3	15:O:644:THR:O	2.65	0.49
15:O:656:HIS:HB3	15:O:747:LEU:C	2.32	0.49
15:O:720:GLN:O	15:O:724:LEU:HD23	2.09	0.49
16:P:284:LEU:HD11	16:P:305:ARG:NH1	2.26	0.49
17:Q:248:LYS:N	17:Q:298:GLN:CD	2.70	0.49
17:Q:388:LYS:HE3	17:Q:393:ILE:CA	2.40	0.49
1:A:385:LEU:CB	1:A:437:PHE:HD1	2.26	0.49
1:A:399:LEU:HD21	1:A:422:ARG:HB3	1.95	0.49
1:A:593:PRO:C	1:A:595:LEU:N	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:952:LEU:N	1:A:955:ARG:O	2.27	0.49
1:A:989:GLY:HA3	2:B:709:PHE:CE1	2.47	0.49
1:A:1031:HIS:ND1	1:A:1032:VAL:O	2.45	0.49
1:A:1050:TYR:C	1:A:1052:GLY:N	2.68	0.49
2:B:168:ASN:O	2:B:169:ARG:NH1	2.42	0.49
2:B:898:LEU:HB2	12:L:46:VAL:CG2	2.34	0.49
2:B:1176:VAL:O	2:B:1179:PRO:HD2	2.12	0.49
3:C:146:ALA:C	3:C:151:THR:HG21	2.37	0.49
5:E:83:CYS:HB2	5:E:110:PHE:CE2	2.48	0.49
5:E:99:HIS:NE2	5:E:103:LYS:NZ	2.59	0.49
7:G:157:ILE:HD12	7:G:229:LEU:HD23	1.94	0.49
9:I:28:VAL:HG23	9:I:38:PRO:HG3	1.93	0.49
15:O:183:ASP:OD2	15:O:245:ILE:HG22	2.13	0.49
15:O:183:ASP:CB	15:O:247:ILE:HD12	2.38	0.49
15:O:347:LEU:CA	17:Q:152:ILE:O	2.61	0.49
15:O:353:ASP:OD2	17:Q:32:ASP:CG	2.53	0.49
15:O:382:GLU:OE1	17:Q:144:VAL:HG12	2.11	0.49
15:O:423:ILE:HG23	17:Q:141:TRP:CH2	2.37	0.49
15:O:436:ILE:CG2	17:Q:141:TRP:CZ2	2.94	0.49
15:O:724:LEU:CG	16:P:446:TYR:HB2	2.43	0.49
16:P:103:LEU:CB	16:P:203:TRP:HZ3	2.25	0.49
16:P:367:PHE:HE1	17:Q:1:MET:HG2	1.76	0.49
1:A:67:LEU:O	1:A:72:CYS:CB	2.60	0.49
1:A:457:LYS:C	1:A:459:ALA:H	2.20	0.49
1:A:468:ARG:C	2:B:1070:ARG:HH22	2.19	0.49
1:A:590:ASN:ND2	2:B:1075:GLU:OE2	2.46	0.49
2:B:107:PRO:HB2	2:B:121:VAL:HB	1.93	0.49
2:B:167:SER:C	2:B:169:ARG:H	2.20	0.49
2:B:429:ARG:O	2:B:432:ILE:HG12	2.13	0.49
2:B:829:ASN:O	2:B:831:GLU:N	2.44	0.49
3:C:142:ARG:NH1	3:C:156:LEU:HD11	2.27	0.49
3:C:172:GLN:H	3:C:175:GLN:NE2	2.10	0.49
4:D:23:HIS:N	7:G:44:ALA:O	2.29	0.49
5:E:90:VAL:CG2	5:E:119:SER:HB2	2.42	0.49
6:F:128:LYS:HD3	6:F:149:GLU:HA	1.95	0.49
8:H:10:PHE:CD1	8:H:30:SER:HA	2.47	0.49
8:H:56:THR:HG21	8:H:145:ARG:CZ	2.41	0.49
8:H:93:TYR:CD2	8:H:143:LEU:HB3	2.46	0.49
12:L:47:ARG:HA	12:L:53:HIS:O	2.13	0.49
15:O:247:ILE:HG12	15:O:261:VAL:HG13	1.94	0.49
15:O:393:VAL:C	15:O:394:VAL:HG13	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:599:LYS:HZ1	16:P:275:GLU:CD	2.18	0.49
15:O:704:LEU:O	15:O:706:GLU:N	2.44	0.49
15:O:736:ILE:HD12	16:P:268:PHE:CZ	2.36	0.49
16:P:188:ALA:HB1	16:P:193:PHE:CZ	2.47	0.49
16:P:282:ARG:HH11	16:P:282:ARG:HG3	1.77	0.49
16:P:315:ASN:O	16:P:315:ASN:OD1	2.31	0.49
1:A:135:LYS:HB2	1:A:188:TYR:OH	2.13	0.49
1:A:409:ASP:O	1:A:410:LYS:C	2.54	0.49
1:A:1033:SER:HB3	1:A:1035:ASP:OD1	2.11	0.49
1:A:1039:ARG:HG2	1:A:1045:LEU:HA	1.95	0.49
1:A:1089:LEU:HB2	1:A:1131:LYS:O	2.12	0.49
1:A:1200:MET:CE	1:A:1570:PHE:CE1	2.96	0.49
1:A:1276:THR:HG22	1:A:1288:ARG:HA	1.94	0.49
2:B:572:PRO:CB	2:B:575:HIS:HD2	2.26	0.49
2:B:694:THR:HG21	2:B:982:THR:CG2	2.43	0.49
2:B:790:ASN:HB3	2:B:793:ALA:HB2	1.95	0.49
2:B:906:ARG:HD2	3:C:93:GLN:CD	2.38	0.49
2:B:938:PHE:CE2	2:B:1014:TYR:HD2	2.30	0.49
2:B:1000:LEU:HD11	2:B:1005:TYR:CB	2.41	0.49
2:B:1090:ASP:HA	2:B:1094:ASN:HB2	1.95	0.49
3:C:134:LEU:CD2	3:C:169:PHE:HA	2.38	0.49
7:G:94:PRO:HB2	7:G:95:LEU:HD22	1.95	0.49
7:G:236:VAL:CG2	7:G:245:VAL:HG22	2.41	0.49
8:H:6:PHE:HB3	8:H:59:ILE:HB	1.94	0.49
8:H:58:THR:OG1	8:H:93:TYR:HE2	1.94	0.49
9:I:17:LEU:HD12	9:I:17:LEU:C	2.37	0.49
15:O:181:ARG:HB2	15:O:245:ILE:HD12	1.95	0.49
15:O:414:ILE:CG2	15:O:415:LEU:N	2.75	0.49
15:O:432:PRO:O	15:O:433:VAL:C	2.56	0.49
15:O:583:GLU:HG2	15:O:584:ARG:CA	2.34	0.49
15:O:724:LEU:HD11	16:P:443:GLN:C	2.37	0.49
16:P:115:GLN:HE21	16:P:190:MET:CE	2.25	0.49
16:P:147:GLN:O	16:P:151:GLU:HG2	2.13	0.49
16:P:400:MET:O	16:P:401:GLU:CB	2.59	0.49
17:Q:140:ILE:HG22	17:Q:142:ARG:HD2	1.95	0.49
17:Q:204:GLU:OE1	17:Q:205:VAL:HG23	2.12	0.49
17:Q:362:ALA:O	17:Q:364:VAL:HG23	2.12	0.49
1:A:394:LEU:HD23	1:A:397:ARG:HD2	1.94	0.49
1:A:1119:LYS:HE2	1:A:1120:TYR:OH	2.12	0.49
1:A:1272:VAL:HB	9:I:49:THR:OG1	2.12	0.49
1:A:1459:LYS:CD	1:A:1473:LYS:HD2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:51:ALA:O	2:B:60:LEU:HB2	2.13	0.49
2:B:535:ASP:OD2	2:B:717:TYR:HE1	1.95	0.49
2:B:746:THR:HG21	10:J:8:PHE:CZ	2.48	0.49
2:B:811:LEU:CD1	2:B:899:GLN:HG3	2.32	0.49
3:C:163:TYR:HD1	3:C:192:LEU:HA	1.78	0.49
13:M:26:PHE:HE1	13:M:98:SER:CB	2.25	0.49
15:O:215:ASN:CA	15:O:236:ILE:HG12	2.42	0.49
15:O:254:ILE:C	15:O:256:ARG:H	2.21	0.49
15:O:373:LEU:O	15:O:375:PHE:CE1	2.66	0.49
15:O:586:LYS:O	15:O:587:GLU:C	2.56	0.49
15:O:718:LEU:CD2	15:O:734:LYS:HD3	2.41	0.49
16:P:96:ILE:HA	16:P:209:ASN:ND2	2.28	0.49
16:P:100:ALA:O	16:P:211:TYR:CE1	2.66	0.49
16:P:177:TYR:OH	16:P:226:LEU:HD22	2.10	0.49
16:P:199:LEU:N	16:P:200:PRO:HD3	1.56	0.49
16:P:337:SER:OG	16:P:448:LYS:HE3	2.13	0.49
1:A:67:LEU:CB	1:A:72:CYS:CB	2.75	0.49
1:A:244:ARG:HG2	1:A:245:LYS:N	2.27	0.49
1:A:335:LEU:HD23	1:A:338:VAL:CB	2.42	0.49
1:A:380:ASN:HB3	1:A:383:ASN:CG	2.38	0.49
1:A:462:LYS:HE2	1:A:462:LYS:CA	2.43	0.49
1:A:657:TYR:CD2	1:A:798:HIS:CD2	3.01	0.49
3:C:121:PRO:HG2	3:C:124:GLU:HG3	1.95	0.49
4:D:93:GLN:O	4:D:97:LYS:N	2.46	0.49
5:E:176:PRO:O	5:E:213:ILE:HG22	2.12	0.49
5:E:182:ASP:OD1	5:E:183:PRO:HD2	2.13	0.49
7:G:46:TYR:CZ	7:G:115:PHE:HB3	2.48	0.49
7:G:135:GLY:O	7:G:147:LEU:HD22	2.12	0.49
8:H:107:VAL:N	8:H:111:LEU:O	2.45	0.49
9:I:3:VAL:CA	9:I:8:ILE:HG13	2.42	0.49
9:I:28:VAL:CA	9:I:37:TYR:HB3	2.37	0.49
11:K:85:ASP:O	11:K:108:TYR:HD1	1.96	0.49
15:O:202:ILE:CG2	15:O:216:ILE:CG2	2.91	0.49
15:O:363:ILE:CG2	15:O:374:VAL:HG22	2.42	0.49
15:O:669:PHE:HE1	15:O:738:LYS:HG3	1.78	0.49
15:O:702:LEU:CA	15:O:704:LEU:HD21	2.42	0.49
16:P:341:ARG:O	16:P:342:THR:C	2.54	0.49
16:P:469:PRO:CB	16:P:470:PRO:HD2	2.32	0.49
1:A:1:MET:CE	7:G:110:ASP:HB2	2.43	0.48
1:A:62:CYS:O	2:B:1155:ASP:OD2	2.31	0.48
1:A:66:GLY:N	2:B:1155:ASP:HB2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:TYR:CA	1:A:795:HIS:HB3	2.43	0.48
1:A:1458:THR:HG21	1:A:1475:GLU:HB2	1.95	0.48
2:B:145:VAL:CB	2:B:150:GLU:HB3	2.40	0.48
2:B:574:SER:HB2	13:M:97:VAL:CG2	2.41	0.48
2:B:628:TYR:CE2	2:B:630:PRO:HB3	2.48	0.48
5:E:147:HIS:HE1	5:E:149:LEU:HG	1.78	0.48
7:G:110:ASP:OD1	7:G:111:THR:HG23	2.12	0.48
7:G:214:LEU:CD2	7:G:214:LEU:C	2.86	0.48
11:K:88:PHE:HB3	11:K:106:GLN:HG3	1.92	0.48
13:M:11:GLU:OE1	14:N:69:SER:HB3	2.13	0.48
13:M:25:SER:O	13:M:26:PHE:CD1	2.65	0.48
15:O:216:ILE:HB	15:O:234:THR:HG21	1.93	0.48
15:O:269:PHE:CZ	15:O:292:LEU:HD11	2.48	0.48
15:O:302:VAL:HA	15:O:320:ILE:HG12	1.92	0.48
15:O:384:ASP:OD2	15:O:387:ASN:CB	2.57	0.48
15:O:641:TRP:NE1	15:O:653:SER:HA	2.28	0.48
15:O:736:ILE:HG12	16:P:268:PHE:CE1	2.19	0.48
16:P:104:PHE:HE2	16:P:155:GLN:CB	2.23	0.48
16:P:274:ILE:HG23	16:P:278:GLU:CG	2.42	0.48
17:Q:354:LEU:HD12	17:Q:359:MET:C	2.37	0.48
19:S:16:DG:N2	20:T:40:DT:C2	2.81	0.48
1:A:83:VAL:HG12	1:A:427:PHE:CZ	2.42	0.48
1:A:111:LYS:C	1:A:111:LYS:CE	2.86	0.48
1:A:510:PRO:O	1:A:515:ASN:ND2	2.45	0.48
1:A:911:CYS:O	1:A:915:GLY:N	2.46	0.48
1:A:911:CYS:C	1:A:912:VAL:O	2.53	0.48
1:A:1150:LYS:HG3	1:A:1150:LYS:O	2.14	0.48
2:B:444:ARG:O	2:B:448:ARG:CB	2.60	0.48
2:B:495:ARG:NH1	2:B:723:LYS:CE	2.75	0.48
2:B:813:LEU:H	2:B:813:LEU:HD13	1.77	0.48
2:B:906:ARG:HD2	3:C:93:GLN:NE2	2.29	0.48
2:B:1002:LYS:CE	14:N:166:LEU:HD12	2.42	0.48
3:C:308:MET:SD	3:C:316:LYS:HE3	2.52	0.48
3:C:309:THR:HB	3:C:311:GLU:OE1	2.12	0.48
7:G:41:VAL:HG13	7:G:41:VAL:O	2.12	0.48
7:G:52:MET:HE2	7:G:53:TYR:CE2	2.48	0.48
7:G:86:GLY:O	7:G:120:VAL:HA	2.12	0.48
15:O:200:THR:OG1	15:O:218:VAL:HG13	2.13	0.48
15:O:233:VAL:CG1	15:O:234:THR:N	2.76	0.48
15:O:276:SER:OG	15:O:277:VAL:N	2.43	0.48
15:O:299:ASP:CB	17:Q:159:TYR:HD2	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:427:SER:C	15:O:428:GLU:OE1	2.56	0.48
15:O:477:TYR:OH	15:O:494:CYS:SG	2.65	0.48
15:O:698:LYS:CD	16:P:126:PRO:HD2	2.42	0.48
16:P:101:LYS:CE	16:P:155:GLN:HE22	2.26	0.48
16:P:116:ILE:HA	16:P:119:LEU:CG	2.43	0.48
16:P:129:PHE:C	16:P:129:PHE:CD1	2.91	0.48
16:P:354:LYS:CB	16:P:362:THR:CB	2.90	0.48
16:P:370:SER:OG	16:P:373:GLU:OE2	2.28	0.48
16:P:487:LEU:HD12	16:P:487:LEU:C	2.37	0.48
1:A:57:PHE:O	1:A:60:ASN:HB2	2.13	0.48
1:A:67:LEU:CB	1:A:72:CYS:HA	2.43	0.48
1:A:336:GLN:NE2	1:A:336:GLN:O	2.47	0.48
1:A:432:ASN:O	1:A:435:ASN:HB2	2.13	0.48
1:A:590:ASN:OD1	1:A:600:MET:HB2	2.13	0.48
1:A:680:LEU:HD23	1:A:680:LEU:C	2.39	0.48
1:A:757:ASN:OD1	1:A:765:LEU:HD12	2.14	0.48
1:A:933:ALA:O	1:A:934:LYS:HG2	2.13	0.48
1:A:1097:TYR:CZ	1:A:1101:THR:HG21	2.49	0.48
1:A:1261:VAL:HG11	1:A:1498:ILE:HD12	1.95	0.48
2:B:518:ARG:NH2	2:B:541:LEU:HD11	2.27	0.48
2:B:547:HIS:CD2	2:B:548:LYS:HG2	2.48	0.48
2:B:975:HIS:ND1	2:B:999:GLN:HG2	2.28	0.48
2:B:1002:LYS:CD	14:N:166:LEU:HD12	2.44	0.48
3:C:84:TYR:HB3	12:L:64:LEU:HD11	1.94	0.48
3:C:222:VAL:HG22	3:C:224:THR:N	2.28	0.48
4:D:91:ARG:HB3	7:G:151:ASP:CB	2.43	0.48
5:E:151:PRO:HG2	5:E:198:ILE:CG2	2.43	0.48
7:G:27:PRO:C	7:G:35:SER:HA	2.35	0.48
7:G:88:LYS:N	7:G:119:HIS:O	2.46	0.48
14:N:80:MET:HB2	14:N:89:ILE:CD1	2.40	0.48
15:O:611:ILE:HG23	15:O:731:LEU:CD2	2.43	0.48
15:O:649:ILE:CD1	15:O:649:ILE:H	2.26	0.48
15:O:771:ILE:HG21	16:P:105:LEU:HD23	1.88	0.48
1:A:1:MET:SD	2:B:1094:ASN:ND2	2.87	0.48
1:A:84:PRO:HA	1:A:357:MET:O	2.14	0.48
1:A:332:GLN:HE22	1:A:350:VAL:H	1.60	0.48
1:A:946:LEU:HD13	1:A:948:GLY:CA	2.42	0.48
1:A:1292:ILE:HB	1:A:1472:PHE:CE2	2.48	0.48
1:A:1658:ALA:HA	6:F:132:LEU:HD23	1.96	0.48
2:B:145:VAL:O	2:B:149:GLU:N	2.46	0.48
2:B:180:LEU:CD1	2:B:185:GLU:HB2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:311:ARG:HH12	9:I:18:GLU:CA	2.22	0.48
2:B:328:GLN:HE22	13:M:109:ARG:N	2.11	0.48
2:B:612:LYS:HD2	2:B:622:ILE:O	2.12	0.48
2:B:664:VAL:HG13	2:B:668:GLU:HG2	1.95	0.48
2:B:1039:MET:HG2	2:B:1041:ASN:HB3	1.94	0.48
2:B:1102:SER:HB3	2:B:1113:THR:CG2	2.43	0.48
4:D:87:SER:O	4:D:91:ARG:HG3	2.14	0.48
5:E:59:SER:HB3	5:E:80:VAL:O	2.13	0.48
5:E:79:TRP:HB2	5:E:105:PHE:CD2	2.48	0.48
7:G:8:ASN:OD1	7:G:9:GLU:N	2.46	0.48
7:G:43:ILE:HD13	7:G:122:LEU:CD1	2.42	0.48
7:G:136:TYR:O	7:G:147:LEU:HA	2.13	0.48
8:H:14:GLU:HB2	8:H:27:GLU:HB2	1.93	0.48
10:J:20:SER:O	10:J:24:LEU:N	2.43	0.48
11:K:59:THR:HB	11:K:107:THR:HG1	1.75	0.48
15:O:359:SER:O	15:O:360:TRP:O	2.31	0.48
15:O:578:PHE:CB	16:P:315:ASN:ND2	2.77	0.48
15:O:584:ARG:C	15:O:584:ARG:CD	2.87	0.48
16:P:156:LEU:HD12	16:P:157:HIS:HD2	1.35	0.48
16:P:278:GLU:OE1	16:P:278:GLU:O	2.30	0.48
16:P:378:LEU:HD22	17:Q:234:LYS:HB3	1.87	0.48
17:Q:280:SER:C	17:Q:282:SER:H	2.20	0.48
1:A:911:CYS:O	1:A:912:VAL:C	2.55	0.48
1:A:945:CYS:O	1:A:985:ARG:HB3	2.14	0.48
2:B:931:TRP:NE1	2:B:935:ASP:CB	2.77	0.48
4:D:15:THR:C	4:D:17:ASN:H	2.20	0.48
6:F:73:ALA:CB	7:G:95:LEU:HD21	2.44	0.48
8:H:93:TYR:HD2	8:H:143:LEU:HB2	1.77	0.48
10:J:18:TRP:CZ2	10:J:55:ASP:HB2	2.48	0.48
10:J:21:TYR:HB2	10:J:39:LEU:CD1	2.44	0.48
13:M:10:ILE:HD12	14:N:54:TRP:CH2	2.48	0.48
15:O:194:ARG:O	15:O:196:TYR:CE2	2.60	0.48
15:O:455:LYS:HA	15:O:464:LEU:HD23	1.95	0.48
15:O:504:THR:O	15:O:542:ARG:HB2	2.13	0.48
15:O:657:SER:CB	15:O:746:ARG:CD	2.86	0.48
15:O:657:SER:H	16:P:244:ASN:ND2	2.10	0.48
16:P:183:LYS:HG2	16:P:189:LYS:HE3	1.94	0.48
16:P:301:HIS:HB2	16:P:304:LEU:HD13	1.92	0.48
16:P:301:HIS:ND1	16:P:304:LEU:HD22	2.29	0.48
16:P:378:LEU:HD23	16:P:378:LEU:C	2.39	0.48
17:Q:248:LYS:HA	17:Q:298:GLN:NE2	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:280:SER:OG	17:Q:301:SER:N	2.46	0.48
1:A:79:ILE:O	1:A:360:LEU:N	2.40	0.48
1:A:467:PHE:HA	1:A:471:MET:HB2	1.96	0.48
1:A:1262:LEU:H	1:A:1265:GLU:CD	2.21	0.48
2:B:62:ASN:O	2:B:66:LYS:HG3	2.14	0.48
2:B:240:ARG:HB2	2:B:242:ASP:OD1	2.14	0.48
2:B:733:LEU:HD12	2:B:743:ARG:CZ	2.44	0.48
3:C:334:THR:OG1	11:K:48:LYS:HA	2.13	0.48
4:D:27:LEU:HD13	7:G:23:GLN:OE1	2.13	0.48
7:G:219:ASP:CG	7:G:220:SER:N	2.72	0.48
10:J:10:CYS:HB2	10:J:43:ARG:NH2	2.29	0.48
13:M:40:LEU:HD23	14:N:32:CYS:SG	2.53	0.48
15:O:186:TYR:C	15:O:187:ILE:HG13	2.39	0.48
15:O:382:GLU:OE1	15:O:433:VAL:HA	2.13	0.48
15:O:586:LYS:HG2	16:P:320:PHE:HZ	1.78	0.48
15:O:705:HIS:CD2	15:O:705:HIS:C	2.90	0.48
15:O:722:TRP:CE3	16:P:264:PRO:CG	2.95	0.48
16:P:219:ILE:CG1	16:P:220:SER:N	2.74	0.48
16:P:352:ILE:HA	16:P:355:VAL:CG2	2.43	0.48
17:Q:143:THR:C	17:Q:144:VAL:CG2	2.78	0.48
17:Q:380:SER:HB3	17:Q:438:PHE:CZ	2.49	0.48
1:A:263:ASN:O	1:A:266:VAL:CG2	2.62	0.48
1:A:536:ILE:HG23	1:A:576:LYS:O	2.13	0.48
1:A:708:THR:HG22	1:A:708:THR:O	2.12	0.48
1:A:796:SER:O	1:A:800:VAL:HG23	2.14	0.48
1:A:828:CYS:SG	1:A:928:MET:HE1	2.54	0.48
1:A:1229:ALA:CB	1:A:1597:ALA:HB2	2.43	0.48
1:A:1297:PHE:CD2	9:I:60:LEU:HD23	2.49	0.48
1:A:1478:ALA:C	1:A:1480:THR:H	2.22	0.48
2:B:228:SER:O	2:B:253:LEU:CA	2.62	0.48
2:B:518:ARG:NH2	2:B:537:SER:O	2.46	0.48
2:B:561:ILE:HG22	2:B:565:LEU:CD1	2.44	0.48
2:B:708:ASP:OD2	2:B:983:PRO:HA	2.13	0.48
2:B:713:PRO:HA	2:B:716:MET:CE	2.44	0.48
2:B:811:LEU:CD2	2:B:899:GLN:CB	2.80	0.48
3:C:88:ASN:HB3	12:L:60:ARG:CZ	2.43	0.48
5:E:116:ILE:CG1	5:E:120:ALA:HB3	2.43	0.48
8:H:48:PRO:HD2	8:H:146:ARG:HH12	1.79	0.48
8:H:108:SER:C	8:H:110:ASP:H	2.20	0.48
9:I:8:ILE:CD1	9:I:37:TYR:CZ	2.96	0.48
11:K:68:GLU:OE1	11:K:68:GLU:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:42:LYS:O	14:N:29:PHE:HA	2.13	0.48
15:O:23:UNK:C	17:Q:314:TRP:CH2	2.96	0.48
15:O:56:UNK:HA	15:O:551:ALA:O	2.14	0.48
15:O:221:ARG:NH2	15:O:513:THR:HA	2.20	0.48
15:O:506:THR:HG21	15:O:540:LYS:HG2	1.95	0.48
15:O:658:LYS:HD2	15:O:660:LYS:HD2	1.94	0.48
16:P:104:PHE:CE1	16:P:215:LEU:HD21	2.42	0.48
16:P:129:PHE:HD1	16:P:129:PHE:C	2.22	0.48
16:P:157:HIS:NE2	16:P:229:LYS:CG	2.59	0.48
16:P:171:HIS:NE2	16:P:243:PHE:CZ	2.59	0.48
16:P:193:PHE:O	16:P:217:GLY:HA2	2.08	0.48
16:P:386:LEU:CG	16:P:387:PRO:CD	2.78	0.48
17:Q:212:HIS:O	17:Q:215:THR:N	2.46	0.48
17:Q:250:LEU:O	17:Q:254:GLY:HA3	2.13	0.48
17:Q:390:ASN:N	17:Q:390:ASN:ND2	2.60	0.48
1:A:17:GLY:O	2:B:1187:SER:HA	2.13	0.48
1:A:263:ASN:O	1:A:266:VAL:HG22	2.13	0.48
1:A:438:ILE:HA	2:B:1184:TYR:CE2	2.48	0.48
1:A:467:PHE:CE1	1:A:1642:VAL:HG21	2.48	0.48
1:A:507:TYR:CD1	1:A:508:PRO:HD2	2.49	0.48
1:A:511:VAL:HG12	1:A:575:LYS:O	2.13	0.48
1:A:539:GLU:HB2	1:A:573:LEU:HB2	1.96	0.48
1:A:572:THR:HA	7:G:52:MET:SD	2.54	0.48
1:A:676:ALA:HB2	1:A:821:ILE:CD1	2.39	0.48
1:A:956:ARG:HH11	1:A:979:GLY:CA	2.25	0.48
1:A:989:GLY:CA	2:B:709:PHE:CE1	2.96	0.48
1:A:1057:ILE:HD12	1:A:1057:ILE:N	2.29	0.48
3:C:58:ASN:H	3:C:296:ASN:HB3	1.79	0.48
5:E:88:VAL:CG1	5:E:93:MET:HB2	2.42	0.48
6:F:114:GLU:OE2	6:F:119:ARG:HB2	2.13	0.48
7:G:82:LEU:N	7:G:123:TYR:O	2.45	0.48
11:K:47:ILE:HG13	11:K:63:PHE:HB3	1.95	0.48
14:N:70:LEU:C	14:N:72:VAL:H	2.22	0.48
15:O:414:ILE:HG21	15:O:434:ARG:HH12	1.78	0.48
15:O:669:PHE:CZ	15:O:738:LYS:HG2	2.48	0.48
15:O:716:ASN:O	15:O:720:GLN:CD	2.57	0.48
16:P:119:LEU:O	16:P:125:PHE:CZ	2.66	0.48
16:P:200:PRO:HB2	16:P:203:TRP:CA	2.43	0.48
16:P:248:SER:O	16:P:249:CYS:HB2	2.12	0.48
1:A:109:ARG:HH22	1:A:240:SER:HB3	1.75	0.48
1:A:430:ILE:HG23	1:A:431:GLN:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:552:GLU:HA	1:A:555:LYS:HD2	1.95	0.48
1:A:557:LEU:HD23	1:A:560:GLN:OE1	2.14	0.48
1:A:741:PRO:HG2	1:A:744:MET:SD	2.53	0.48
1:A:904:THR:HG23	1:A:946:LEU:HD11	1.95	0.48
1:A:1477:ALA:O	1:A:1480:THR:HG23	2.13	0.48
2:B:21:ARG:CD	2:B:763:ASP:OD2	2.60	0.48
2:B:180:LEU:HG	2:B:185:GLU:HB2	1.95	0.48
2:B:489:GLU:C	2:B:491:ILE:H	2.21	0.48
2:B:782:ASP:HA	2:B:786:ALA:O	2.13	0.48
3:C:60:ASP:HB2	11:K:78:TYR:CZ	2.49	0.48
3:C:271:ARG:HG3	3:C:299:ILE:HD13	1.96	0.48
14:N:34:HIS:O	14:N:35:LEU:HD23	2.12	0.48
15:O:11:UNK:O	15:O:436:ILE:HD11	2.11	0.48
15:O:253:SER:C	15:O:254:ILE:HG13	2.39	0.48
15:O:356:GLU:CG	15:O:377:ARG:HH22	2.23	0.48
15:O:440:HIS:CG	15:O:479:HIS:CD2	3.01	0.48
15:O:442:LEU:HD12	15:O:442:LEU:O	2.14	0.48
15:O:604:ILE:CA	15:O:732:LEU:HD22	2.33	0.48
16:P:137:TRP:CD1	16:P:141:LEU:CD1	2.96	0.48
16:P:234:CYS:C	16:P:289:ARG:CB	2.87	0.48
17:Q:149:LYS:HG3	17:Q:149:LYS:O	2.13	0.48
1:A:108:PHE:CE2	1:A:227:LEU:HG	2.49	0.48
1:A:331:GLU:O	1:A:335:LEU:HG	2.14	0.48
1:A:404:SER:HA	1:A:407:GLN:OE1	2.14	0.48
1:A:746:GLY:O	1:A:773:ASP:HA	2.14	0.48
1:A:1332:GLU:O	1:A:1336:GLN:HG3	2.13	0.48
1:A:1623:THR:HG22	1:A:1627:LEU:CD1	2.44	0.48
2:B:335:ARG:HH22	13:M:113:ILE:HG22	1.77	0.48
2:B:1010:ASN:HD22	2:B:1027:TYR:HA	1.78	0.48
5:E:178:ILE:HG22	5:E:213:ILE:C	2.39	0.48
7:G:163:PRO:HB2	7:G:166:TRP:HD1	1.79	0.48
15:O:194:ARG:CB	15:O:197:ARG:NH2	2.68	0.48
15:O:293:TYR:CB	15:O:295:VAL:HG23	2.34	0.48
15:O:353:ASP:O	17:Q:28:SER:CB	2.44	0.48
15:O:423:ILE:CD1	17:Q:141:TRP:CH2	2.83	0.48
15:O:706:GLU:HG3	16:P:438:PHE:CG	2.49	0.48
16:P:342:THR:C	16:P:343:THR:HG23	2.38	0.48
16:P:378:LEU:HD23	16:P:378:LEU:O	2.13	0.48
17:Q:352:TRP:CD1	17:Q:352:TRP:H	2.32	0.48
1:A:381:SER:HB3	1:A:453:ILE:CB	2.41	0.47
1:A:385:LEU:HB2	1:A:437:PHE:HD1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:872:ASP:OD1	1:A:874:GLU:HB3	2.14	0.47
2:B:151:ASN:C	2:B:152:LEU:HD12	2.38	0.47
2:B:262:PHE:CZ	2:B:269:TYR:HB2	2.49	0.47
2:B:373:MET:O	2:B:377:MET:HG3	2.13	0.47
2:B:1102:SER:HB3	2:B:1113:THR:CB	2.44	0.47
7:G:38:ILE:HG13	7:G:125:TRP:HD1	1.79	0.47
8:H:97:MET:HB3	8:H:118:PHE:CD2	2.49	0.47
15:O:313:GLN:CA	15:O:315:PHE:CD1	2.96	0.47
15:O:380:MET:HG3	15:O:402:ILE:HD13	1.95	0.47
15:O:433:VAL:HG11	17:Q:144:VAL:C	2.30	0.47
15:O:438:TRP:CH2	15:O:481:PHE:CD2	3.01	0.47
15:O:578:PHE:HB3	16:P:315:ASN:ND2	2.29	0.47
15:O:582:ASP:OD1	15:O:583:GLU:N	2.42	0.47
15:O:604:ILE:HG23	15:O:732:LEU:HD22	1.96	0.47
15:O:665:ASN:O	15:O:667:ASP:CA	2.59	0.47
16:P:101:LYS:HD2	16:P:152:LEU:HD11	1.77	0.47
16:P:144:ILE:CA	16:P:147:GLN:NE2	2.77	0.47
16:P:370:SER:OG	16:P:373:GLU:OE1	2.22	0.47
16:P:381:MET:HE1	16:P:385:PHE:CE2	2.47	0.47
17:Q:354:LEU:C	17:Q:354:LEU:HD23	2.39	0.47
17:Q:381:ARG:HA	17:Q:384:VAL:HG21	0.52	0.47
1:A:35:PRO:HA	1:A:390:LEU:HD13	1.95	0.47
1:A:520:ARG:O	1:A:524:ILE:HG13	2.14	0.47
1:A:1133:LEU:HD11	1:A:1172:LEU:HA	1.95	0.47
1:A:1447:GLN:CB	1:A:1460:TYR:HB3	2.42	0.47
1:A:1463:ASP:OD2	1:A:1466:SER:OG	2.20	0.47
2:B:127:ARG:NH2	2:B:193:TYR:OH	2.47	0.47
2:B:154:GLU:CG	2:B:156:ARG:HD3	2.44	0.47
2:B:656:LEU:HB2	14:N:148:ILE:HD13	1.95	0.47
2:B:675:ALA:HB2	2:B:686:HIS:CG	2.49	0.47
2:B:1128:CYS:HB3	2:B:1131:CYS:SG	2.54	0.47
3:C:81:GLU:HB2	3:C:209:ILE:HG12	1.95	0.47
3:C:119:ASN:OD1	3:C:120:LEU:HB3	2.13	0.47
5:E:112:TYR:CZ	5:E:136:ASN:HA	2.49	0.47
7:G:72:LYS:O	7:G:80:VAL:HA	2.14	0.47
8:H:98:TYR:HD2	8:H:141:TYR:CZ	2.31	0.47
15:O:264:ILE:CG2	15:O:265:THR:N	2.77	0.47
15:O:323:ASN:HA	17:Q:155:GLN:HB2	1.96	0.47
15:O:613:HIS:NE2	15:O:619:GLU:HB2	2.29	0.47
15:O:714:PHE:CE2	15:O:741:ILE:HD13	2.46	0.47
15:O:780:ILE:HB	16:P:199:LEU:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:143:THR:CB	16:P:236:MET:HE3	2.41	0.47
16:P:284:LEU:HD22	16:P:285:THR:O	2.14	0.47
16:P:357:TYR:HE2	17:Q:203:SER:HA	1.79	0.47
16:P:378:LEU:CG	17:Q:234:LYS:HB3	2.41	0.47
1:A:5:LYS:O	2:B:1100:GLN:NE2	2.48	0.47
1:A:406:LEU:HB2	1:A:416:ARG:NH1	2.29	0.47
1:A:497:VAL:HG13	1:A:501:PHE:HD2	1.79	0.47
1:A:752:LYS:O	1:A:785:GLN:NE2	2.48	0.47
1:A:799:GLU:HG2	1:A:1062:HIS:ND1	2.29	0.47
1:A:1322:ILE:HG23	1:A:1454:HIS:NE2	2.29	0.47
1:A:1325:LEU:CD1	1:A:1488:ILE:HG22	2.43	0.47
1:A:1577:VAL:HG11	1:A:1582:LEU:HD21	1.96	0.47
2:B:62:ASN:HA	2:B:65:VAL:CG2	2.44	0.47
2:B:117:VAL:HB	17:Q:276:GLN:O	2.14	0.47
2:B:139:LEU:HD21	2:B:158:CYS:SG	2.53	0.47
2:B:912:GLN:OE1	2:B:1039:MET:HE1	2.14	0.47
2:B:931:TRP:HE1	2:B:935:ASP:C	2.22	0.47
2:B:1195:ARG:HH11	2:B:1196:LEU:C	2.15	0.47
3:C:278:GLU:CD	3:C:281:ARG:HD3	2.39	0.47
5:E:178:ILE:HG22	5:E:213:ILE:O	2.14	0.47
7:G:73:TYR:CE2	7:G:75:ASN:HA	2.50	0.47
13:M:48:LYS:HD3	13:M:48:LYS:HA	1.38	0.47
15:O:262:GLY:O	15:O:263:ILE:CG1	2.54	0.47
15:O:345:ASP:OD1	15:O:346:ASN:O	2.31	0.47
15:O:611:ILE:CD1	15:O:731:LEU:CG	2.92	0.47
15:O:638:LEU:HD22	15:O:748:GLU:HG3	1.95	0.47
16:P:183:LYS:NZ	16:P:183:LYS:CB	2.77	0.47
16:P:239:PHE:CA	16:P:243:PHE:CD2	2.97	0.47
16:P:332:LEU:C	16:P:332:LEU:CD1	2.87	0.47
17:Q:26:TYR:CD2	17:Q:173:MET:HE3	2.48	0.47
17:Q:200:THR:HG1	17:Q:203:SER:CB	2.18	0.47
17:Q:230:SER:O	17:Q:233:TYR:CE2	2.67	0.47
17:Q:381:ARG:C	17:Q:383:PHE:N	2.72	0.47
1:A:57:PHE:CD1	1:A:69:GLU:OE2	2.65	0.47
1:A:117:ARG:HB2	1:A:185:ARG:CZ	2.44	0.47
1:A:1112:PRO:CB	1:A:1114:TYR:OH	2.21	0.47
1:A:1229:ALA:HA	1:A:1595:TYR:CZ	2.49	0.47
1:A:1640:ARG:CD	1:A:1647:ASN:HA	2.35	0.47
2:B:222:PHE:CD1	2:B:251:HIS:NE2	2.79	0.47
2:B:372:ARG:NH2	2:B:574:SER:HA	2.28	0.47
2:B:610:TYR:CE1	14:N:146:PRO:HD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:721:MET:SD	2:B:924:LYS:HD3	2.54	0.47
2:B:804:TYR:N	2:B:804:TYR:CD1	2.83	0.47
2:B:830:ASP:CA	2:B:834:LYS:HZ3	2.27	0.47
2:B:882:ILE:CG2	2:B:903:ILE:HD11	2.44	0.47
2:B:1010:ASN:HB3	2:B:1025:ASP:O	2.14	0.47
3:C:69:ARG:CD	11:K:71:THR:OG1	2.63	0.47
7:G:90:LEU:HB2	7:G:119:HIS:HE1	1.78	0.47
12:L:68:GLU:C	12:L:70:ARG:H	2.22	0.47
14:N:25:ILE:HG22	14:N:26:PRO:CD	2.35	0.47
15:O:193:LEU:O	15:O:194:ARG:C	2.57	0.47
15:O:299:ASP:HB3	17:Q:159:TYR:N	2.29	0.47
15:O:345:ASP:HB2	17:Q:152:ILE:CG2	2.45	0.47
15:O:368:HIS:C	15:O:370:GLN:H	2.23	0.47
15:O:370:GLN:O	15:O:385:PHE:CE1	2.67	0.47
15:O:375:PHE:HE2	15:O:380:MET:HE2	1.70	0.47
15:O:395:GLN:NE2	15:O:397:LYS:CA	2.77	0.47
15:O:461:HIS:CG	15:O:484:ARG:HG2	2.50	0.47
15:O:489:PHE:C	15:O:490:GLN:HG2	2.39	0.47
15:O:498:LEU:HD23	15:O:499:GLU:N	2.28	0.47
15:O:775:TRP:CH2	16:P:134:LYS:HG3	2.49	0.47
16:P:282:ARG:HH11	16:P:282:ARG:CG	2.28	0.47
16:P:355:VAL:CG1	16:P:366:TYR:CE1	2.97	0.47
16:P:402:MET:HB3	16:P:407:LYS:N	2.06	0.47
1:A:466:LEU:O	1:A:471:MET:N	2.47	0.47
1:A:834:ARG:C	1:A:917:MET:HB2	2.39	0.47
1:A:912:VAL:O	1:A:914:ASP:N	2.47	0.47
1:A:1483:LEU:CD1	1:A:1485:MET:HB2	2.45	0.47
1:A:1559:ARG:NH2	5:E:200:ARG:HH11	2.12	0.47
1:A:1660:VAL:HG12	7:G:54:LEU:HD11	1.97	0.47
3:C:40:PHE:CE2	3:C:42:VAL:HG23	2.50	0.47
3:C:115:TRP:CH2	3:C:212:ILE:HG23	2.50	0.47
4:D:27:LEU:HG	4:D:28:PRO:HD2	1.97	0.47
4:D:27:LEU:HD12	4:D:28:PRO:HD2	1.96	0.47
9:I:2:SER:O	9:I:8:ILE:HA	2.15	0.47
10:J:24:LEU:O	10:J:28:ASP:HB3	2.14	0.47
10:J:43:ARG:O	10:J:47:ARG:N	2.35	0.47
11:K:49:LEU:HD21	11:K:54:THR:HG21	1.96	0.47
11:K:74:ASN:O	11:K:77:ARG:HG3	2.15	0.47
12:L:47:ARG:HG3	12:L:52:GLY:O	2.14	0.47
14:N:172:ALA:HB3	14:N:175:TYR:CD2	2.25	0.47
15:O:469:TYR:CD2	15:O:508:ILE:HD12	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:733:THR:O	15:O:737:VAL:HG23	2.15	0.47
17:Q:8:LEU:H	17:Q:8:LEU:HD22	1.79	0.47
17:Q:134:PRO:C	17:Q:135:GLU:O	2.57	0.47
17:Q:356:PRO:N	17:Q:359:MET:HB2	2.29	0.47
1:A:1:MET:HE1	7:G:110:ASP:HB2	1.96	0.47
1:A:87:ASN:N	1:A:355:PHE:O	2.46	0.47
1:A:239:PHE:CD2	1:A:267:LYS:HD2	2.49	0.47
1:A:321:LYS:HD3	1:A:356:PHE:HD2	1.78	0.47
1:A:334:VAL:HG22	1:A:338:VAL:HG23	1.95	0.47
1:A:835:LEU:HD22	1:A:915:GLY:C	2.40	0.47
1:A:1509:HIS:ND1	1:A:1519:LEU:CD2	2.76	0.47
2:B:141:LEU:HB3	2:B:154:GLU:HB3	1.97	0.47
2:B:756:LEU:HA	2:B:759:ASP:HB2	1.96	0.47
2:B:787:MET:O	2:B:927:CYS:HA	2.14	0.47
2:B:1134:ARG:NH1	2:B:1160:GLU:OE1	2.47	0.47
3:C:58:ASN:HA	3:C:296:ASN:OD1	2.15	0.47
3:C:78:VAL:HG23	3:C:110:PRO:HB3	1.96	0.47
3:C:86:PHE:CE1	12:L:64:LEU:HD13	2.49	0.47
3:C:228:ARG:NH2	14:N:172:ALA:HB1	2.30	0.47
3:C:254:GLY:HA2	3:C:268:LYS:CE	2.45	0.47
4:D:22:ILE:HA	7:G:45:LEU:HA	1.96	0.47
5:E:2:ASP:OD1	5:E:3:GLN:HG2	2.13	0.47
5:E:86:PRO:O	5:E:114:ASN:N	2.43	0.47
9:I:3:VAL:CB	9:I:8:ILE:HG13	2.45	0.47
9:I:23:VAL:HG21	9:I:38:PRO:HB3	1.96	0.47
15:O:214:LEU:HD12	15:O:238:LEU:CD1	2.43	0.47
15:O:383:ILE:HG22	15:O:385:PHE:N	2.30	0.47
15:O:618:ASP:O	15:O:621:LYS:HB2	2.15	0.47
15:O:650:LEU:HB2	16:P:242:PHE:CZ	2.42	0.47
15:O:686:TYR:CB	15:O:692:THR:CG2	2.92	0.47
16:P:95:LEU:HD23	16:P:100:ALA:HB2	1.97	0.47
16:P:150:GLU:O	16:P:150:GLU:HG2	2.14	0.47
16:P:335:THR:O	16:P:338:LEU:HB2	2.15	0.47
17:Q:393:ILE:HG13	17:Q:400:LYS:HZ2	1.79	0.47
1:A:19:LEU:HD21	2:B:1188:GLU:HB2	1.96	0.47
1:A:39:ASP:O	1:A:43:HIS:N	2.48	0.47
1:A:114:GLU:O	1:A:118:TYR:CD2	2.67	0.47
1:A:252:PHE:HB3	1:A:312:SER:C	2.38	0.47
1:A:339:PHE:CD2	1:A:350:VAL:HG11	2.49	0.47
1:A:725:LEU:HA	1:A:725:LEU:HD23	1.71	0.47
1:A:880:GLN:HE22	2:B:633:THR:N	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1152:SER:O	1:A:1156:LYS:N	2.47	0.47
2:B:186:GLU:C	2:B:188:ASP:N	2.71	0.47
2:B:322:ASN:HD22	13:M:105:SER:CA	2.28	0.47
2:B:362:LEU:CD1	2:B:370:LYS:HA	2.44	0.47
2:B:428:VAL:O	2:B:432:ILE:HG23	2.15	0.47
2:B:442:ASP:OD2	2:B:444:ARG:NE	2.44	0.47
2:B:596:VAL:HB	2:B:600:GLN:HB3	1.96	0.47
2:B:618:PRO:HB3	17:Q:397:ARG:NE	2.28	0.47
2:B:813:LEU:HD13	2:B:814:ASN:H	1.80	0.47
2:B:817:ARG:O	2:B:819:ASP:OD2	2.25	0.47
3:C:218:LYS:CE	12:L:70:ARG:HE	2.28	0.47
3:C:272:LYS:HA	14:N:175:TYR:CD2	2.50	0.47
7:G:97:LYS:NZ	7:G:97:LYS:C	2.73	0.47
7:G:136:TYR:HA	7:G:227:GLY:O	2.15	0.47
8:H:108:SER:HB3	8:H:111:LEU:HD12	1.96	0.47
10:J:12:LYS:O	10:J:14:VAL:HG13	2.15	0.47
11:K:43:ASP:OD2	11:K:46:LYS:N	2.46	0.47
12:L:31:CYS:HB2	12:L:48:CYS:HB2	1.97	0.47
13:M:26:PHE:O	14:N:106:ASN:CG	2.57	0.47
13:M:51:PHE:HD2	13:M:94:PRO:HG3	1.79	0.47
13:M:78:VAL:HB	13:M:91:TYR:O	2.15	0.47
14:N:87:TYR:HE1	14:N:141:GLU:HG3	1.79	0.47
15:O:205:TYR:O	15:O:214:LEU:HA	2.14	0.47
15:O:248:PRO:CG	15:O:307:PHE:CD2	2.98	0.47
15:O:302:VAL:O	15:O:319:ASP:O	2.33	0.47
15:O:318:ILE:HD12	15:O:318:ILE:C	2.39	0.47
15:O:338:LYS:O	15:O:339:ARG:HB2	2.15	0.47
15:O:436:ILE:HB	17:Q:141:TRP:CH2	2.48	0.47
15:O:483:HIS:HE1	15:O:487:ASN:HA	1.79	0.47
15:O:580:ASN:N	15:O:580:ASN:OD1	2.47	0.47
15:O:685:TYR:CG	15:O:689:GLN:OE1	2.68	0.47
16:P:166:TYR:CE2	16:P:230:ILE:HD13	2.50	0.47
16:P:233:THR:HG22	16:P:237:ILE:HD12	1.96	0.47
16:P:237:ILE:HG22	16:P:239:PHE:CA	2.44	0.47
16:P:284:LEU:HD13	16:P:302:ALA:C	2.27	0.47
17:Q:246:GLN:N	17:Q:246:GLN:CD	2.73	0.47
19:S:19:DG:C5	19:S:20:DT:C4	3.03	0.47
1:A:8:GLY:O	2:B:1194:ILE:HD12	2.14	0.47
1:A:24:ILE:O	1:A:28:SER:CB	2.62	0.47
1:A:35:PRO:HG3	1:A:394:LEU:CD1	2.45	0.47
1:A:732:ILE:O	1:A:735:VAL:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1088:HIS:CG	6:F:152:ILE:HD11	2.50	0.47
1:A:1104:TYR:CE2	1:A:1117:SER:CB	2.98	0.47
2:B:142:LYS:HE2	2:B:144:SER:OG	2.15	0.47
2:B:289:PHE:CE2	2:B:293:ILE:HG21	2.48	0.47
2:B:566:TYR:CE2	13:M:73:SER:HB2	2.49	0.47
2:B:656:LEU:HD11	2:B:689:VAL:HG12	1.96	0.47
2:B:748:GLN:HE22	10:J:48:ARG:HH12	1.61	0.47
3:C:254:GLY:HA2	3:C:268:LYS:HE2	1.97	0.47
5:E:7:ARG:HG2	5:E:11:ARG:CZ	2.44	0.47
6:F:103:MET:O	7:G:51:PRO:HG2	2.15	0.47
6:F:127:GLU:HB3	6:F:129:LYS:NZ	2.30	0.47
7:G:26:ASN:HB3	7:G:36:ASN:C	2.40	0.47
7:G:168:PHE:HD1	7:G:217:TRP:HD1	1.60	0.47
9:I:23:VAL:CG1	9:I:38:PRO:CG	2.90	0.47
11:K:78:TYR:O	11:K:82:LYS:HG2	2.15	0.47
14:N:54:TRP:CG	14:N:135:LYS:HB2	2.49	0.47
15:O:270:GLN:OE1	15:O:291:PRO:HD3	2.15	0.47
15:O:391:THR:HG22	15:O:393:VAL:HG13	1.97	0.47
15:O:423:ILE:HG23	17:Q:141:TRP:HH2	1.54	0.47
15:O:511:ILE:HD13	15:O:536:ASP:OD1	2.14	0.47
15:O:573:GLU:O	16:P:499:LYS:HD2	2.15	0.47
16:P:201:LYS:CG	16:P:202:SER:N	2.77	0.47
16:P:205:ILE:O	16:P:207:LEU:CA	2.55	0.47
16:P:303:GLU:O	16:P:304:LEU:C	2.58	0.47
16:P:330:TRP:HE1	16:P:452:PHE:HD1	1.61	0.47
1:A:34:ASN:C	1:A:390:LEU:HD13	2.40	0.47
1:A:249:THR:HG21	1:A:432:ASN:CB	2.40	0.47
1:A:372:LYS:CG	1:A:377:VAL:HG22	2.44	0.47
1:A:381:SER:HB3	1:A:453:ILE:CD1	2.41	0.47
1:A:413:LEU:C	1:A:415:ASP:H	2.21	0.47
1:A:534:THR:O	1:A:546:LEU:HB2	2.15	0.47
1:A:592:GLN:H	1:A:593:PRO:CD	2.24	0.47
1:A:920:PHE:HZ	1:A:930:LEU:HD23	0.40	0.47
1:A:1266:VAL:HG11	1:A:1498:ILE:CD1	2.45	0.47
1:A:1439:MET:HG3	1:A:1444:ARG:CZ	2.44	0.47
2:B:67:ASP:HB3	2:B:414:LYS:CE	2.42	0.47
2:B:156:ARG:NE	2:B:450:LEU:HD22	2.29	0.47
2:B:205:MET:C	2:B:206:LEU:HD12	2.39	0.47
2:B:408:LEU:O	2:B:412:ILE:HG22	2.14	0.47
2:B:607:THR:CG2	14:N:143:ALA:HB3	2.45	0.47
2:B:818:GLY:O	2:B:820:PRO:CD	2.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1127:CYS:H	2:B:1166:LYS:HE3	1.79	0.47
3:C:115:TRP:CG	3:C:210:LEU:HD23	2.50	0.47
3:C:163:TYR:O	3:C:193:LEU:HD12	2.15	0.47
3:C:293:ARG:HH11	3:C:293:ARG:HG3	1.79	0.47
5:E:200:ARG:NE	5:E:208:TYR:HD2	2.13	0.47
15:O:46:UNK:CB	15:O:491:SER:HB3	2.45	0.47
15:O:353:ASP:HB3	17:Q:27:ILE:O	2.14	0.47
15:O:442:LEU:O	15:O:443:ASP:OD1	2.33	0.47
15:O:663:LEU:HD11	15:O:742:TRP:CZ3	2.49	0.47
15:O:709:PRO:O	15:O:710:GLY:C	2.57	0.47
16:P:119:LEU:CG	16:P:165:LEU:HD11	2.42	0.47
16:P:212:VAL:C	16:P:215:LEU:HD21	2.38	0.47
16:P:263:PRO:CB	16:P:266:PHE:CE2	2.93	0.47
16:P:386:LEU:H	16:P:387:PRO:HD2	1.72	0.47
17:Q:251:TRP:HE1	17:Q:297:PHE:HB3	1.80	0.47
1:A:503:VAL:HG23	1:A:504:LYS:HG3	1.96	0.47
1:A:720:PHE:HE2	8:H:141:TYR:CE2	2.32	0.47
1:A:1097:TYR:OH	1:A:1121:ASP:O	2.21	0.47
3:C:85:PHE:O	12:L:64:LEU:HA	2.15	0.47
5:E:27:GLY:C	5:E:65:THR:HG23	2.39	0.47
6:F:85:MET:HA	6:F:89:GLU:OE1	2.15	0.47
8:H:7:ASP:HB3	8:H:58:THR:HG23	1.96	0.47
8:H:93:TYR:HB3	8:H:144:ILE:O	2.14	0.47
10:J:2:ILE:O	10:J:3:VAL:C	2.58	0.47
10:J:10:CYS:CB	10:J:43:ARG:HH21	2.28	0.47
11:K:103:ILE:HG23	11:K:103:ILE:O	2.13	0.47
15:O:186:TYR:CA	15:O:201:GLU:HB3	2.45	0.47
15:O:307:PHE:O	15:O:308:ASN:O	2.33	0.47
15:O:347:LEU:HD23	17:Q:152:ILE:HG23	1.96	0.47
15:O:391:THR:CG2	15:O:392:GLU:N	2.78	0.47
15:O:746:ARG:HD2	15:O:746:ARG:HA	1.48	0.47
16:P:96:ILE:N	16:P:100:ALA:HB2	2.30	0.47
16:P:237:ILE:CG2	16:P:239:PHE:HB2	2.45	0.47
16:P:246:GLU:O	16:P:286:LEU:N	2.48	0.47
16:P:293:ARG:O	16:P:295:THR:HG23	2.15	0.47
16:P:417:PHE:HE1	17:Q:258:LEU:HG	1.77	0.47
1:A:211:THR:OG1	1:A:1592:GLN:NE2	2.39	0.46
1:A:334:VAL:C	1:A:338:VAL:HG23	2.39	0.46
1:A:646:GLU:OE2	2:B:1086:PHE:HB2	2.15	0.46
1:A:1215:VAL:HA	1:A:1235:THR:HG21	1.96	0.46
1:A:1247:SER:OG	1:A:1250:GLN:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:813:LEU:H	2:B:813:LEU:HD12	1.79	0.46
2:B:1105:ARG:HE	2:B:1165:ASN:C	2.23	0.46
3:C:78:VAL:CG2	3:C:110:PRO:HA	2.45	0.46
3:C:113:LEU:HD22	3:C:130:ASN:HA	1.96	0.46
5:E:10:SER:CB	5:E:39:LEU:HD21	2.39	0.46
7:G:40:ARG:HA	7:G:122:LEU:O	2.14	0.46
8:H:19:ARG:HG3	8:H:19:ARG:O	2.15	0.46
8:H:48:PRO:O	8:H:146:ARG:CZ	2.63	0.46
9:I:27:ASN:ND2	9:I:39:LYS:HE3	2.30	0.46
13:M:21:VAL:HG22	14:N:112:PRO:HD3	1.96	0.46
13:M:112:LYS:HE2	13:M:112:LYS:HB3	1.76	0.46
15:O:23:UNK:C	17:Q:314:TRP:CE3	2.97	0.46
15:O:55:UNK:O	15:O:552:LEU:HD22	2.15	0.46
15:O:188:GLN:O	15:O:196:TYR:HE1	1.98	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:574:TRP:CH2	16:P:484:ALA:CB	2.93	0.46
16:P:239:PHE:CZ	16:P:243:PHE:CG	3.03	0.46
16:P:337:SER:OG	16:P:448:LYS:HD3	2.15	0.46
17:Q:247:ILE:O	17:Q:250:LEU:CB	2.61	0.46
1:A:314:TYR:CE2	1:A:316:LEU:HD23	2.50	0.46
1:A:1097:TYR:CE2	1:A:1123:VAL:HA	2.49	0.46
1:A:1641:ILE:HD13	2:B:1076:ARG:HD2	1.97	0.46
2:B:215:MET:CE	2:B:394:PRO:HG3	2.46	0.46
2:B:527:PHE:CE2	2:B:666:PRO:HA	2.50	0.46
2:B:592:ILE:HD11	2:B:595:TRP:CZ2	2.50	0.46
2:B:810:ASP:OD1	2:B:811:LEU:N	2.48	0.46
2:B:903:ILE:HG23	2:B:903:ILE:O	2.15	0.46
2:B:1153:ILE:HD11	2:B:1157:GLN:C	2.41	0.46
3:C:152:ASP:CG	3:C:154:LYS:HB2	2.40	0.46
4:D:90:LYS:O	4:D:93:GLN:HB3	2.14	0.46
5:E:1:MET:HB3	5:E:4:GLU:HB2	1.97	0.46
7:G:29:ASP:C	7:G:31:LYS:N	2.72	0.46
8:H:107:VAL:HG12	8:H:111:LEU:CD1	2.45	0.46
9:I:26:SER:OG	9:I:27:ASN:N	2.47	0.46
15:O:317:ILE:HG22	15:O:363:ILE:CD1	2.46	0.46
15:O:327:GLY:HA3	15:O:340:LYS:CD	2.24	0.46
15:O:478:MET:CE	15:O:497:VAL:HG13	2.45	0.46
15:O:690:ASP:OD2	15:O:750:PRO:CB	2.63	0.46
15:O:740:ILE:O	15:O:744:LEU:CD2	2.63	0.46
16:P:167:LEU:HB3	16:P:239:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:490:ASP:HB3	16:P:491:PHE:CD1	2.51	0.46
17:Q:384:VAL:C	17:Q:388:LYS:O	2.58	0.46
1:A:530:TRP:O	1:A:580:HIS:HD2	1.98	0.46
1:A:757:ASN:CG	1:A:765:LEU:HD12	2.41	0.46
1:A:1162:ASN:OD1	1:A:1164:LYS:N	2.48	0.46
1:A:1497:ILE:HD12	1:A:1497:ILE:C	2.40	0.46
1:A:1661:PRO:HA	7:G:102:GLU:HA	1.97	0.46
2:B:75:ASP:N	2:B:440:PHE:CZ	2.82	0.46
2:B:720:GLN:C	2:B:721:MET:HE2	2.40	0.46
2:B:807:GLU:HB3	2:B:903:ILE:HG22	1.96	0.46
2:B:920:ARG:NH2	2:B:965:GLU:OE2	2.44	0.46
2:B:921:HIS:CE1	2:B:962:MET:HA	2.49	0.46
2:B:1174:THR:O	2:B:1177:ALA:HB3	2.15	0.46
5:E:86:PRO:CA	5:E:113:GLN:HB2	2.45	0.46
9:I:13:CYS:SG	9:I:33:CYS:SG	3.13	0.46
14:N:87:TYR:HA	14:N:142:THR:OG1	2.15	0.46
14:N:117:GLU:OE2	14:N:120:LYS:HE3	2.15	0.46
15:O:183:ASP:OD2	15:O:246:LYS:HA	2.15	0.46
15:O:270:GLN:OE1	15:O:291:PRO:HB3	2.15	0.46
15:O:366:PHE:CD1	15:O:373:LEU:HD11	2.50	0.46
15:O:713:ILE:CG2	15:O:717:LYS:CE	2.94	0.46
15:O:775:TRP:HD1	16:P:109:GLN:HB3	1.81	0.46
16:P:201:LYS:O	16:P:204:ARG:HB3	2.15	0.46
16:P:239:PHE:CE1	16:P:243:PHE:HB2	2.49	0.46
16:P:287:TRP:CZ2	16:P:298:VAL:CB	2.98	0.46
16:P:330:TRP:CZ3	16:P:331:ILE:HD13	2.51	0.46
16:P:339:THR:O	16:P:340:GLN:C	2.57	0.46
1:A:135:LYS:O	1:A:138:GLU:HG3	2.15	0.46
1:A:335:LEU:HA	1:A:338:VAL:CG2	2.44	0.46
1:A:591:ARG:HD3	1:A:593:PRO:HD2	1.96	0.46
1:A:1101:THR:O	1:A:1105:ARG:CB	2.64	0.46
1:A:1101:THR:HA	1:A:1120:TYR:CD2	2.51	0.46
1:A:1104:TYR:CE1	1:A:1119:LYS:NZ	2.84	0.46
2:B:186:GLU:O	2:B:189:GLU:N	2.43	0.46
2:B:451:MET:HG2	2:B:451:MET:O	2.15	0.46
2:B:823:GLN:HG2	2:B:863:ASP:HB2	1.98	0.46
2:B:840:LEU:HD11	2:B:857:PRO:HB2	1.98	0.46
6:F:107:VAL:HG12	6:F:109:VAL:H	1.80	0.46
6:F:109:VAL:HG22	6:F:110:ASP:N	2.30	0.46
14:N:177:ALA:C	14:N:179:ASP:H	2.23	0.46
15:O:222:GLN:NE2	15:O:227:LEU:N	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:264:ILE:CG1	15:O:305:PHE:CE2	2.96	0.46
15:O:318:ILE:HD13	15:O:320:ILE:CD1	2.44	0.46
15:O:322:GLY:CA	15:O:349:GLY:O	2.59	0.46
15:O:428:GLU:CG	15:O:433:VAL:C	2.89	0.46
15:O:470:SER:OG	15:O:471:MET:N	2.49	0.46
15:O:512:LEU:O	15:O:513:THR:C	2.59	0.46
15:O:746:ARG:HG3	16:P:172:LEU:HA	1.97	0.46
16:P:178:THR:CG2	16:P:179:CYS:N	2.78	0.46
16:P:409:ALA:O	16:P:413:LEU:HG	2.16	0.46
16:P:469:PRO:HG2	16:P:470:PRO:HD2	1.98	0.46
17:Q:242:ILE:O	17:Q:244:GLY:N	2.42	0.46
17:Q:282:SER:CA	17:Q:301:SER:O	2.62	0.46
1:A:132:GLU:CD	1:A:135:LYS:HD2	2.39	0.46
1:A:196:ALA:HB1	1:A:202:THR:HG22	1.97	0.46
1:A:335:LEU:CA	1:A:338:VAL:HB	2.27	0.46
1:A:721:LYS:HB2	8:H:96:VAL:N	2.21	0.46
1:A:789:SER:C	1:A:790:LYS:HG2	2.40	0.46
1:A:1458:THR:OG1	1:A:1473:LYS:O	2.34	0.46
2:B:460:LYS:O	2:B:464:PHE:CD2	2.69	0.46
2:B:657:PRO:N	14:N:148:ILE:HG12	2.30	0.46
2:B:897:GLU:HB2	2:B:899:GLN:HE21	1.81	0.46
2:B:939:SER:CA	2:B:1013:MET:HG2	2.45	0.46
3:C:151:THR:O	3:C:151:THR:HG22	2.16	0.46
5:E:12:LEU:O	5:E:15:ALA:HB3	2.16	0.46
5:E:87:SER:OG	5:E:115:ASN:ND2	2.49	0.46
6:F:114:GLU:OE2	6:F:119:ARG:HD2	2.15	0.46
7:G:46:TYR:OH	7:G:115:PHE:HB3	2.16	0.46
9:I:8:ILE:CG1	9:I:37:TYR:CZ	2.96	0.46
10:J:30:LEU:CD2	10:J:34:THR:HB	2.46	0.46
15:O:378:SER:O	15:O:397:LYS:HG2	2.15	0.46
15:O:658:LYS:O	15:O:659:LEU:HD12	2.03	0.46
16:P:95:LEU:HD22	16:P:100:ALA:CB	2.45	0.46
16:P:147:GLN:H	16:P:148:PRO:HD3	1.61	0.46
17:Q:158:THR:O	17:Q:158:THR:HG23	2.14	0.46
1:A:19:LEU:HD11	2:B:1187:SER:O	2.14	0.46
1:A:467:PHE:HA	1:A:471:MET:CG	2.45	0.46
1:A:719:ILE:HG21	1:A:722:PRO:HD2	1.97	0.46
1:A:843:ARG:O	1:A:847:LEU:HG	2.16	0.46
1:A:855:ARG:HH12	1:A:867:ASP:C	2.23	0.46
1:A:1116:GLN:NE2	5:E:152:LYS:HG2	2.30	0.46
1:A:1119:LYS:CD	1:A:1120:TYR:CE1	2.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1175:MET:O	1:A:1178:LEU:HD12	2.16	0.46
1:A:1274:GLU:HA	1:A:1289:SER:O	2.15	0.46
1:A:1288:ARG:NH2	1:A:1481:GLU:O	2.49	0.46
1:A:1477:ALA:O	1:A:1480:THR:OG1	2.27	0.46
1:A:1612:LYS:HD2	1:A:1621:PHE:CE1	2.50	0.46
1:A:1613:MET:O	1:A:1618:THR:OG1	2.18	0.46
2:B:91:LEU:C	2:B:93:ASN:N	2.73	0.46
2:B:108:MET:HE1	2:B:120:LYS:CG	2.35	0.46
2:B:237:ARG:NH2	2:B:245:SER:HB2	2.30	0.46
2:B:277:LEU:HD23	2:B:374:LEU:HD23	1.98	0.46
2:B:854:GLU:HB2	2:B:876:SER:O	2.16	0.46
2:B:941:THR:O	2:B:941:THR:HG22	2.16	0.46
2:B:1127:CYS:HB3	2:B:1163:GLN:CB	2.42	0.46
2:B:1162:GLY:C	2:B:1163:GLN:HG2	2.40	0.46
3:C:212:ILE:HG13	3:C:214:GLY:N	2.31	0.46
7:G:16:PHE:CD1	7:G:20:HIS:CD2	3.04	0.46
7:G:169:VAL:HG13	7:G:218:VAL:HG21	1.97	0.46
8:H:115:TYR:HE1	8:H:124:ARG:CG	2.21	0.46
12:L:31:CYS:SG	12:L:48:CYS:HB2	2.56	0.46
15:O:254:ILE:CG2	15:O:255:GLY:N	2.78	0.46
15:O:274:ILE:CD1	15:O:284:VAL:CG1	2.94	0.46
15:O:353:ASP:OD1	17:Q:31:PHE:HB3	2.16	0.46
15:O:391:THR:HG22	15:O:393:VAL:H	1.78	0.46
15:O:394:VAL:O	15:O:395:GLN:CB	2.47	0.46
15:O:458:LYS:HD2	15:O:463:LEU:HD21	1.97	0.46
15:O:721:CYS:O	15:O:724:LEU:CG	2.62	0.46
16:P:111:ILE:HG23	16:P:112:LEU:N	2.29	0.46
16:P:208:PRO:CB	16:P:212:VAL:CB	2.65	0.46
16:P:408:ILE:CG2	16:P:412:LYS:HE3	2.45	0.46
17:Q:155:GLN:HE21	17:Q:156:LYS:H	1.63	0.46
17:Q:354:LEU:CD1	17:Q:358:PHE:O	2.34	0.46
1:A:110:LEU:CD1	1:A:226:LYS:HB3	2.46	0.46
1:A:533:ALA:HB1	1:A:578:TYR:O	2.16	0.46
1:A:732:ILE:HA	1:A:735:VAL:HG22	1.98	0.46
1:A:1290:TYR:HB2	1:A:1474:LEU:HB3	1.97	0.46
2:B:167:SER:C	2:B:169:ARG:N	2.74	0.46
2:B:531:VAL:CG2	2:B:701:ALA:HB2	2.45	0.46
2:B:952:HIS:C	2:B:955:PRO:HD2	2.40	0.46
2:B:990:ASP:OD2	14:N:160:VAL:HG22	2.16	0.46
3:C:58:ASN:HA	3:C:296:ASN:HB3	1.98	0.46
3:C:120:LEU:HD11	3:C:125:LYS:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:82:PHE:HA	5:E:111:VAL:HB	1.98	0.46
7:G:72:LYS:C	7:G:80:VAL:HG13	2.40	0.46
7:G:97:LYS:O	7:G:97:LYS:HD2	2.15	0.46
8:H:11:GLN:OE1	8:H:52:GLN:C	2.59	0.46
10:J:31:ASP:OD1	10:J:34:THR:CB	2.63	0.46
14:N:74:PHE:HD1	14:N:77:SER:HB2	1.77	0.46
15:O:24:UNK:O	17:Q:366:PHE:CZ	2.69	0.46
15:O:44:UNK:O	15:O:45:UNK:O	2.33	0.46
15:O:352:PHE:CD1	15:O:355:GLU:CD	2.79	0.46
15:O:713:ILE:H	15:O:713:ILE:HD12	1.81	0.46
16:P:158:MET:CG	16:P:192:TYR:OH	2.63	0.46
16:P:215:LEU:HD12	16:P:216:GLU:CD	2.35	0.46
16:P:258:MET:HE3	16:P:442:LEU:CD2	2.46	0.46
16:P:333:SER:O	16:P:336:GLU:HB3	2.15	0.46
17:Q:204:GLU:CD	17:Q:204:GLU:N	2.73	0.46
17:Q:352:TRP:CB	17:Q:358:PHE:CZ	2.46	0.46
1:A:67:LEU:HD12	1:A:73:PRO:HD2	1.97	0.46
1:A:641:GLU:HB2	6:F:99:LEU:HD13	1.96	0.46
1:A:665:PRO:O	1:A:666:VAL:HG23	2.13	0.46
1:A:1275:THR:HA	9:I:46:LYS:HA	1.97	0.46
1:A:1322:ILE:HG23	1:A:1454:HIS:CE1	2.51	0.46
1:A:1628:ASP:HB3	1:A:1630:GLU:OE2	2.15	0.46
2:B:317:TYR:HB3	2:B:320:LEU:CG	2.46	0.46
2:B:768:GLY:C	2:B:1032:TYR:CZ	2.93	0.46
2:B:861:TYR:CZ	2:B:870:LYS:HB2	2.50	0.46
2:B:897:GLU:HB3	2:B:899:GLN:HE21	1.80	0.46
5:E:81:GLU:N	5:E:109:ILE:O	2.48	0.46
5:E:106:GLN:O	5:E:130:ALA:CA	2.64	0.46
6:F:97:ARG:NE	6:F:124:GLU:OE1	2.33	0.46
7:G:67:ASN:N	7:G:68:PRO:HD2	2.31	0.46
15:O:189:THR:O	15:O:192:ASP:N	2.45	0.46
15:O:263:ILE:CG2	15:O:264:ILE:N	2.78	0.46
15:O:270:GLN:HE21	15:O:289:SER:H	1.64	0.46
15:O:431:ASP:CB	15:O:432:PRO:CD	2.89	0.46
15:O:600:GLU:OE2	16:P:268:PHE:CB	2.59	0.46
15:O:650:LEU:HD21	16:P:135:ILE:HD13	1.98	0.46
16:P:94:LYS:CB	16:P:207:LEU:HB3	2.36	0.46
16:P:167:LEU:CD2	16:P:286:LEU:CD2	2.94	0.46
17:Q:247:ILE:O	17:Q:248:LYS:C	2.56	0.46
1:A:104:PHE:CE1	1:A:239:PHE:O	2.62	0.46
1:A:720:PHE:HB2	8:H:96:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:857:ALA:HB2	1:A:899:LYS:CD	2.44	0.46
1:A:1119:LYS:CG	1:A:1120:TYR:CE2	2.99	0.46
1:A:1229:ALA:HB1	1:A:1595:TYR:CE2	2.51	0.46
1:A:1270:VAL:O	9:I:51:THR:N	2.48	0.46
1:A:1610:PHE:HB2	1:A:1639:ALA:CB	2.42	0.46
2:B:211:ARG:H	2:B:401:GLU:CD	2.23	0.46
2:B:328:GLN:HE22	13:M:109:ARG:H	1.64	0.46
2:B:374:LEU:HD12	2:B:377:MET:HE2	1.97	0.46
4:D:19:PRO:N	7:G:65:HIS:HD2	2.13	0.46
15:O:188:GLN:CD	15:O:196:TYR:HB2	2.41	0.46
15:O:753:PHE:CE1	16:P:131:HIS:CB	2.99	0.46
16:P:146:ASP:CA	16:P:148:PRO:CD	2.88	0.46
16:P:354:LYS:CB	16:P:362:THR:HB	2.40	0.46
1:A:51:ASP:OD1	1:A:52:LEU:N	2.50	0.46
1:A:126:GLN:HB3	1:A:343:PRO:CD	2.44	0.46
1:A:701:ARG:CZ	11:K:94:PRO:HA	2.46	0.46
1:A:1225:ILE:HA	1:A:1595:TYR:OH	2.16	0.46
2:B:259:THR:HB	2:B:270:LEU:HD11	1.97	0.46
2:B:710:ASN:OD1	2:B:961:GLY:N	2.42	0.46
2:B:792:SER:CB	2:B:933:THR:OG1	2.62	0.46
2:B:815:ARG:C	2:B:815:ARG:NE	2.73	0.46
2:B:854:GLU:HG3	2:B:875:HIS:CA	2.42	0.46
2:B:1010:ASN:HB2	2:B:1025:ASP:HB2	1.97	0.46
3:C:163:TYR:C	3:C:193:LEU:HD12	2.40	0.46
3:C:169:PHE:HE2	3:C:171:PRO:HB3	1.77	0.46
5:E:86:PRO:HB3	5:E:114:ASN:CB	2.46	0.46
9:I:36:ILE:CG2	9:I:39:LYS:HE3	2.43	0.46
11:K:108:TYR:C	11:K:110:GLU:H	2.22	0.46
14:N:94:ASP:HA	14:N:98:SER:HA	1.98	0.46
15:O:186:TYR:HA	15:O:201:GLU:CB	2.46	0.46
15:O:313:GLN:CD	15:O:328:ARG:HH21	2.23	0.46
15:O:351:ILE:O	15:O:352:PHE:HD1	1.99	0.46
15:O:359:SER:HA	15:O:361:LYS:HZ2	1.81	0.46
15:O:362:ARG:HH12	15:O:364:GLU:HB2	1.81	0.46
15:O:568:ILE:HG23	15:O:570:ASP:OD1	2.15	0.46
15:O:614:GLU:OE2	15:O:670:ALA:N	2.41	0.46
15:O:735:GLU:C	15:O:738:LYS:HB3	2.33	0.46
16:P:135:ILE:C	16:P:135:ILE:HD12	2.41	0.46
16:P:157:HIS:HE1	16:P:159:THR:CG2	2.29	0.46
16:P:334:LEU:HD21	16:P:449:GLN:CD	2.40	0.46
16:P:365:ASP:O	16:P:366:TYR:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:390:THR:OG1	16:P:399:SER:OG	2.18	0.46
16:P:493:ILE:O	16:P:498:LEU:HB2	2.16	0.46
16:P:505:ILE:HD12	16:P:508:ALA:HB3	1.97	0.46
17:Q:355:THR:CA	17:Q:359:MET:SD	3.02	0.46
17:Q:355:THR:N	17:Q:356:PRO:CD	2.77	0.46
1:A:108:PHE:HE2	1:A:227:LEU:HG	1.80	0.45
1:A:436:ALA:HB2	1:A:443:ALA:CB	2.35	0.45
1:A:674:ILE:HA	1:A:786:TYR:CZ	2.51	0.45
2:B:73:ILE:HD13	2:B:428:VAL:CB	2.46	0.45
2:B:101:GLN:HG2	2:B:102:VAL:H	1.80	0.45
2:B:218:ILE:HG22	2:B:232:TYR:HD1	1.80	0.45
2:B:416:LYS:HE2	2:B:461:MET:CE	2.46	0.45
2:B:567:SER:HA	14:N:59:PRO:HG3	1.97	0.45
2:B:743:ARG:O	2:B:743:ARG:CG	2.64	0.45
5:E:13:TRP:HB3	5:E:39:LEU:CD1	2.46	0.45
5:E:22:MET:HB2	5:E:187:TYR:CE1	2.50	0.45
5:E:96:PHE:CE1	5:E:100:ILE:HD11	2.51	0.45
7:G:163:PRO:O	7:G:166:TRP:HD1	1.99	0.45
8:H:98:TYR:HD2	8:H:141:TYR:CE2	2.34	0.45
8:H:100:THR:O	8:H:116:TYR:HA	2.16	0.45
9:I:3:VAL:HG23	9:I:8:ILE:HB	1.97	0.45
13:M:23:VAL:HA	14:N:108:THR:O	2.16	0.45
15:O:302:VAL:O	15:O:303:VAL:CB	2.64	0.45
15:O:478:MET:HE2	15:O:497:VAL:CG2	2.38	0.45
15:O:568:ILE:C	15:O:570:ASP:N	2.74	0.45
16:P:152:LEU:CD2	16:P:152:LEU:N	2.73	0.45
16:P:208:PRO:HA	16:P:212:VAL:CG2	2.46	0.45
16:P:260:CYS:C	16:P:262:LEU:N	2.74	0.45
16:P:274:ILE:CA	16:P:278:GLU:HB3	2.46	0.45
16:P:294:HIS:CA	20:T:48:DA:H61	2.21	0.45
16:P:372:GLU:O	16:P:374:THR:C	2.57	0.45
16:P:382:GLU:CD	16:P:382:GLU:C	2.83	0.45
16:P:484:ALA:O	16:P:488:LEU:CB	2.62	0.45
1:A:35:PRO:HD3	1:A:394:LEU:CD1	2.44	0.45
1:A:38:LEU:HA	1:A:43:HIS:O	2.16	0.45
1:A:467:PHE:O	1:A:472:MET:CG	2.64	0.45
1:A:492:THR:HG22	1:A:617:HIS:CG	2.51	0.45
1:A:1200:MET:HE1	1:A:1570:PHE:CE1	2.52	0.45
2:B:225:ARG:NH1	2:B:268:GLU:OE1	2.49	0.45
2:B:287:GLU:CG	13:M:27:PHE:HB3	2.43	0.45
2:B:311:ARG:HD3	9:I:16:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:352:GLU:C	2:B:352:GLU:CD	2.84	0.45
2:B:427:GLN:CG	2:B:449:VAL:HG13	2.47	0.45
2:B:537:SER:OG	2:B:538:PRO:HD3	2.16	0.45
2:B:951:PRO:O	2:B:954:PHE:HD1	1.98	0.45
2:B:1010:ASN:HA	2:B:1026:ILE:O	2.16	0.45
3:C:242:GLU:O	3:C:246:ARG:HB3	2.15	0.45
3:C:244:ALA:C	3:C:258:ILE:HD11	2.41	0.45
7:G:58:LEU:HD21	7:G:89:ILE:HG13	1.99	0.45
8:H:38:LEU:HD11	8:H:123:MET:CG	2.45	0.45
8:H:143:LEU:HD12	8:H:143:LEU:N	2.31	0.45
12:L:53:HIS:CD2	12:L:55:ILE:HB	2.52	0.45
15:O:222:GLN:OE1	15:O:226:HIS:N	2.42	0.45
15:O:364:GLU:HG3	15:O:365:TRP:N	2.31	0.45
15:O:434:ARG:N	17:Q:144:VAL:HG11	2.32	0.45
15:O:442:LEU:H	15:O:442:LEU:HG	1.44	0.45
15:O:675:PHE:CE2	15:O:679:LEU:HD11	2.51	0.45
15:O:735:GLU:H	15:O:735:GLU:CD	2.25	0.45
16:P:113:LYS:HA	16:P:116:ILE:CG1	2.47	0.45
16:P:123:MET:C	16:P:124:ARG:HG2	2.41	0.45
16:P:334:LEU:HD23	16:P:449:GLN:OE1	2.14	0.45
16:P:491:PHE:C	16:P:493:ILE:N	2.70	0.45
17:Q:394:GLY:O	17:Q:395:LEU:C	2.58	0.45
1:A:6:PRO:HB3	7:G:113:PHE:HD2	1.82	0.45
1:A:40:ASN:C	1:A:42:GLY:N	2.75	0.45
1:A:402:ASP:O	1:A:406:LEU:N	2.41	0.45
1:A:581:ILE:CD1	1:A:605:VAL:HG11	2.46	0.45
1:A:693:GLN:HB3	11:K:88:PHE:CD1	2.51	0.45
1:A:700:ILE:HD13	1:A:738:ASN:ND2	2.23	0.45
1:A:959:VAL:HG22	1:A:960:MET:O	2.17	0.45
1:A:1106:LYS:HA	1:A:1109:SER:HB3	1.99	0.45
1:A:1119:LYS:C	1:A:1120:TYR:CG	2.95	0.45
1:A:1296:PHE:HE2	1:A:1470:CYS:HB2	1.82	0.45
1:A:1599:ASN:OD1	1:A:1601:GLN:HB2	2.17	0.45
1:A:1612:LYS:HB3	1:A:1621:PHE:CG	2.51	0.45
1:A:1640:ARG:NH2	1:A:1648:ASN:HB2	2.31	0.45
2:B:91:LEU:CD1	2:B:94:LYS:N	2.77	0.45
2:B:194:PHE:O	2:B:200:GLU:HA	2.16	0.45
2:B:317:TYR:HB3	2:B:320:LEU:HG	1.97	0.45
2:B:585:CYS:HB2	2:B:595:TRP:CH2	2.51	0.45
3:C:147:PRO:HB2	3:C:148:LYS:CD	2.47	0.45
3:C:161:HIS:CD2	10:J:19:GLU:OE2	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:165:ARG:HB2	3:C:189:PRO:HB3	1.98	0.45
5:E:164:LEU:HD21	5:E:211:TYR:CD2	2.50	0.45
7:G:229:LEU:CD2	7:G:249:LEU:HD11	2.44	0.45
13:M:10:ILE:HG13	14:N:73:ASP:CB	2.46	0.45
13:M:12:ILE:HG23	13:M:88:ILE:CG1	2.47	0.45
14:N:53:VAL:C	14:N:54:TRP:CD1	2.94	0.45
15:O:224:THR:H	15:O:225:LEU:HD13	1.82	0.45
15:O:313:GLN:H	15:O:315:PHE:HD1	1.48	0.45
15:O:316:ALA:HB3	15:O:340:LYS:CD	2.35	0.45
15:O:471:MET:HA	15:O:504:THR:HG22	1.99	0.45
15:O:662:LEU:N	15:O:662:LEU:CD2	2.73	0.45
15:O:736:ILE:CD1	16:P:268:PHE:HZ	2.07	0.45
1:A:30:LYS:HG2	1:A:31:GLN:O	2.17	0.45
1:A:122:LEU:CD2	1:A:219:LEU:HD23	2.46	0.45
1:A:704:ASP:HB3	1:A:706:HIS:NE2	2.31	0.45
1:A:748:ASN:N	1:A:1072:ASN:OD1	2.47	0.45
2:B:21:ARG:O	2:B:24:ARG:N	2.49	0.45
2:B:64:GLY:O	2:B:68:ILE:HG23	2.15	0.45
2:B:164:MET:HA	2:B:194:PHE:CE1	2.51	0.45
2:B:215:MET:HE3	2:B:394:PRO:HG3	1.99	0.45
2:B:444:ARG:HB3	2:B:448:ARG:HH21	1.82	0.45
2:B:729:PRO:HG2	2:B:733:LEU:HD21	1.99	0.45
2:B:1051:PRO:O	2:B:1060:VAL:HG13	2.16	0.45
2:B:1162:GLY:C	2:B:1164:GLY:N	2.71	0.45
3:C:239:ILE:HD11	3:C:247:PHE:CD2	2.51	0.45
4:D:19:PRO:HB3	7:G:47:VAL:HG13	1.96	0.45
4:D:44:ILE:HD11	4:D:89:LEU:CG	2.46	0.45
5:E:152:LYS:O	5:E:198:ILE:HA	2.17	0.45
5:E:180:ARG:CZ	5:E:190:LEU:O	2.65	0.45
11:K:94:PRO:O	11:K:95:HIS:HB2	2.16	0.45
13:M:28:LYS:HA	14:N:106:ASN:HD21	1.82	0.45
13:M:43:LYS:HB3	13:M:50:GLU:O	2.16	0.45
15:O:194:ARG:CG	15:O:197:ARG:NH2	2.80	0.45
15:O:322:GLY:O	17:Q:155:GLN:O	2.33	0.45
15:O:473:HIS:O	15:O:473:HIS:ND1	2.50	0.45
15:O:581:ALA:O	15:O:585:GLU:CB	2.51	0.45
15:O:596:ILE:HG21	16:P:317:MET:CE	2.31	0.45
16:P:103:LEU:HA	16:P:106:LYS:HD3	1.98	0.45
16:P:118:TRP:CZ2	16:P:189:LYS:HB3	2.42	0.45
16:P:311:MET:HE3	16:P:311:MET:HB3	1.88	0.45
16:P:334:LEU:HD22	16:P:449:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:496:GLU:O	16:P:499:LYS:CB	2.62	0.45
17:Q:367:ILE:O	17:Q:367:ILE:HG13	2.17	0.45
1:A:30:LYS:O	1:A:78:HIS:N	2.45	0.45
1:A:126:GLN:CD	1:A:343:PRO:HA	2.42	0.45
1:A:731:ILE:O	1:A:735:VAL:HG13	2.16	0.45
1:A:1049:MET:CB	1:A:1052:GLY:HA2	2.45	0.45
2:B:501:ARG:HH21	2:B:545:PHE:HB3	1.80	0.45
2:B:566:TYR:CD2	13:M:73:SER:CB	2.99	0.45
2:B:566:TYR:HD2	13:M:73:SER:CB	2.30	0.45
2:B:617:THR:OG1	2:B:620:LEU:HB3	2.17	0.45
2:B:714:ARG:NE	2:B:957:ARG:HG2	2.31	0.45
2:B:743:ARG:O	2:B:743:ARG:HG3	2.17	0.45
2:B:792:SER:HB3	3:C:217:ALA:CB	2.42	0.45
2:B:1014:TYR:HE1	2:B:1021:GLU:HB2	1.81	0.45
3:C:327:TYR:HE2	11:K:46:LYS:HD3	1.81	0.45
5:E:28:TYR:OH	5:E:78:LEU:HB2	2.17	0.45
5:E:48:ASP:OD2	5:E:52:ARG:NE	2.32	0.45
7:G:235:ASN:HB3	7:G:246:ASP:HB3	1.99	0.45
8:H:22:LYS:CD	8:H:43:ASN:HD21	2.30	0.45
11:K:98:GLU:O	11:K:100:LEU:HG	2.17	0.45
13:M:26:PHE:H	14:N:106:ASN:HB3	1.82	0.45
13:M:77:VAL:HG11	14:N:64:ILE:HG21	1.98	0.45
15:O:186:TYR:CE2	15:O:512:LEU:HD22	2.51	0.45
15:O:301:GLN:O	15:O:320:ILE:CG2	2.64	0.45
15:O:381:ILE:CG2	15:O:382:GLU:N	2.79	0.45
15:O:399:TRP:CH2	17:Q:294:VAL:CG1	2.94	0.45
15:O:436:ILE:HG21	17:Q:141:TRP:CZ2	2.47	0.45
15:O:436:ILE:HG12	17:Q:141:TRP:HE3	1.78	0.45
15:O:437:SER:CB	15:O:489:PHE:CE2	3.00	0.45
15:O:471:MET:CG	15:O:542:ARG:NH1	2.80	0.45
15:O:499:GLU:OE2	15:O:500:ILE:HD12	2.16	0.45
15:O:711:LEU:HD23	15:O:711:LEU:C	2.42	0.45
15:O:750:PRO:O	15:O:752:LEU:N	2.50	0.45
16:P:186:CYS:O	16:P:380:TRP:NE1	2.49	0.45
16:P:238:HIS:CD2	16:P:289:ARG:CD	3.00	0.45
16:P:340:GLN:C	16:P:340:GLN:CD	2.83	0.45
17:Q:133:LYS:CB	17:Q:134:PRO:CD	2.91	0.45
1:A:1:MET:N	2:B:1094:ASN:O	2.40	0.45
1:A:393:SER:O	1:A:397:ARG:HG3	2.16	0.45
1:A:422:ARG:O	1:A:426:ALA:HB2	2.15	0.45
1:A:463:LYS:CD	1:A:464:GLU:OE1	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:594:THR:HG21	2:B:1075:GLU:CA	2.45	0.45
1:A:663:GLY:O	1:A:665:PRO:HD3	2.17	0.45
1:A:861:VAL:HG21	1:A:895:VAL:HB	1.98	0.45
1:A:1112:PRO:HB2	1:A:1114:TYR:CD2	2.42	0.45
1:A:1295:ARG:HA	1:A:1469:TRP:HB3	1.98	0.45
1:A:1440:ASN:OD1	1:A:1440:ASN:C	2.59	0.45
2:B:200:GLU:HB2	2:B:488:ALA:HB3	1.99	0.45
2:B:753:LYS:HZ3	2:B:978:ALA:HB1	1.82	0.45
2:B:841:ASP:HA	2:B:847:TYR:OH	2.17	0.45
4:D:88:GLN:O	4:D:92:ILE:HG13	2.17	0.45
6:F:85:MET:SD	6:F:90:ARG:HA	2.57	0.45
7:G:100:THR:O	7:G:101:SER:C	2.58	0.45
8:H:10:PHE:CZ	8:H:36:CYS:SG	3.10	0.45
8:H:98:TYR:CZ	8:H:139:ASN:HB3	2.51	0.45
15:O:248:PRO:HG3	15:O:307:PHE:HD2	1.82	0.45
15:O:270:GLN:HG3	15:O:271:ILE:N	2.32	0.45
15:O:319:ASP:HB2	15:O:363:ILE:HG21	1.98	0.45
15:O:529:GLU:O	15:O:531:PHE:HD2	1.99	0.45
15:O:657:SER:C	15:O:658:LYS:HG2	2.42	0.45
16:P:200:PRO:HB3	16:P:203:TRP:HD1	1.65	0.45
16:P:336:GLU:O	16:P:339:THR:N	2.48	0.45
17:Q:296:PRO:HA	17:Q:304:HIS:HE1	1.81	0.45
17:Q:365:TRP:CE3	17:Q:365:TRP:CA	2.98	0.45
1:A:19:LEU:HD21	2:B:1187:SER:O	2.17	0.45
1:A:134:TYR:CG	5:E:192:ARG:CZ	3.00	0.45
1:A:460:LEU:HA	1:A:466:LEU:H	1.81	0.45
1:A:516:ILE:O	1:A:520:ARG:HB2	2.17	0.45
1:A:657:TYR:CD2	1:A:658:LEU:HG	2.52	0.45
1:A:709:ARG:NH2	1:A:742:PRO:HB3	2.32	0.45
1:A:1119:LYS:CD	1:A:1120:TYR:CD2	2.92	0.45
1:A:1257:SER:O	1:A:1499:ARG:NE	2.50	0.45
2:B:527:PHE:C	2:B:528:LEU:HD23	2.42	0.45
2:B:612:LYS:HG2	2:B:622:ILE:HD12	1.98	0.45
2:B:614:GLU:CG	2:B:615:GLY:N	2.79	0.45
2:B:820:PRO:C	2:B:822:THR:HG23	2.40	0.45
3:C:70:ILE:HG23	3:C:74:GLU:HB2	1.99	0.45
3:C:87:ASN:OD1	12:L:60:ARG:HG2	2.17	0.45
3:C:212:ILE:O	3:C:219:PHE:HB2	2.16	0.45
3:C:239:ILE:HD12	3:C:247:PHE:HB3	1.98	0.45
7:G:90:LEU:HD13	7:G:119:HIS:HE1	1.78	0.45
7:G:97:LYS:HZ2	7:G:97:LYS:C	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:95:HIS:CB	11:K:98:GLU:HG3	2.19	0.45
12:L:26:THR:HG22	12:L:28:LYS:HE2	1.99	0.45
13:M:61:GLU:C	13:M:100:VAL:HG13	2.41	0.45
13:M:76:TYR:CE1	14:N:57:LYS:HE2	2.52	0.45
15:O:183:ASP:OD2	15:O:246:LYS:CA	2.64	0.45
15:O:251:SER:HB3	15:O:411:LYS:HD3	1.98	0.45
15:O:289:SER:O	15:O:290:GLU:HB3	2.17	0.45
15:O:313:GLN:O	15:O:314:GLN:O	2.26	0.45
15:O:393:VAL:HG21	15:O:434:ARG:HG3	1.99	0.45
15:O:725:VAL:HA	16:P:450:THR:HA	1.98	0.45
15:O:775:TRP:NE1	16:P:109:GLN:O	2.49	0.45
16:P:104:PHE:N	16:P:211:TYR:HE1	2.13	0.45
16:P:342:THR:O	16:P:343:THR:CG2	2.64	0.45
17:Q:275:CYS:SG	17:Q:309:ALA:HA	2.57	0.45
17:Q:278:TYR:CD1	17:Q:278:TYR:N	2.73	0.45
17:Q:398:ASP:CG	17:Q:401:ILE:CD1	2.87	0.45
19:S:6:DG:C6	20:T:49:DC:N3	2.85	0.45
1:A:52:LEU:C	1:A:63:SER:HB2	2.42	0.45
1:A:244:ARG:NH2	1:A:252:PHE:CD2	2.85	0.45
1:A:250:LYS:HB3	1:A:314:TYR:CE1	2.51	0.45
1:A:461:GLU:HG2	1:A:1618:THR:OG1	2.17	0.45
1:A:533:ALA:HA	1:A:578:TYR:O	2.17	0.45
1:A:657:TYR:HD2	1:A:658:LEU:HG	1.81	0.45
1:A:790:LYS:CB	1:A:795:HIS:CE1	2.95	0.45
1:A:1316:VAL:O	1:A:1320:GLN:HB3	2.16	0.45
2:B:164:MET:HA	2:B:194:PHE:CD1	2.51	0.45
2:B:203:ILE:CG2	2:B:405:GLY:HA2	2.46	0.45
2:B:495:ARG:HH11	2:B:723:LYS:HE3	1.81	0.45
2:B:1126:VAL:HB	2:B:1166:LYS:HE3	1.98	0.45
2:B:1182:LEU:O	2:B:1185:LEU:N	2.49	0.45
11:K:115:ASP:O	11:K:119:LYS:HG2	2.17	0.45
15:O:271:ILE:HB	15:O:289:SER:CB	2.47	0.45
15:O:319:ASP:HA	15:O:324:TRP:HB3	1.97	0.45
15:O:380:MET:O	15:O:393:VAL:O	2.35	0.45
15:O:411:LYS:HB2	15:O:411:LYS:HE3	1.65	0.45
15:O:483:HIS:ND1	15:O:489:PHE:CE1	2.85	0.45
15:O:538:LEU:HD12	15:O:538:LEU:C	2.41	0.45
15:O:654:LEU:O	15:O:655:SER:C	2.59	0.45
16:P:284:LEU:CD2	16:P:305:ARG:HH12	2.20	0.45
16:P:287:TRP:CE3	16:P:290:THR:HG23	2.51	0.45
16:P:355:VAL:HA	16:P:366:TYR:OH	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:447:ALA:HA	16:P:450:THR:HB	1.99	0.45
1:A:102:CYS:CB	1:A:107:HIS:O	2.65	0.45
1:A:591:ARG:CG	1:A:624:TYR:HB3	2.46	0.45
1:A:616:LEU:HG	1:A:617:HIS:N	2.32	0.45
1:A:1241:PRO:HG3	1:A:1540:GLY:HA3	1.99	0.45
1:A:1458:THR:N	1:A:1473:LYS:O	2.47	0.45
2:B:96:SER:O	2:B:144:SER:HB2	2.16	0.45
2:B:234:ILE:HG12	2:B:381:LEU:HD13	1.99	0.45
2:B:555:GLN:CB	2:B:645:GLY:HA2	2.45	0.45
2:B:604:ILE:O	2:B:608:LEU:HB2	2.17	0.45
2:B:1061:LYS:HG2	2:B:1062:GLY:N	2.30	0.45
2:B:1108:GLY:O	2:B:1189:LEU:O	2.34	0.45
3:C:163:TYR:CD1	3:C:192:LEU:HA	2.52	0.45
5:E:97:VAL:CG1	5:E:132:ILE:HD11	2.45	0.45
7:G:169:VAL:HG21	7:G:216:HIS:HD2	1.82	0.45
8:H:15:VAL:HG13	8:H:26:ILE:CD1	2.45	0.45
8:H:21:ASN:O	8:H:21:ASN:OD1	2.35	0.45
9:I:7:LEU:CB	9:I:16:LEU:HD11	2.45	0.45
13:M:75:GLN:O	14:N:58:PHE:O	2.35	0.45
15:O:310:TRP:CA	15:O:368:HIS:NE2	2.73	0.45
15:O:446:ASP:CG	15:O:448:THR:HG22	2.40	0.45
17:Q:352:TRP:CD1	17:Q:352:TRP:N	2.85	0.45
1:A:6:PRO:HD3	7:G:113:PHE:HE2	1.82	0.45
1:A:460:LEU:HB2	1:A:466:LEU:HB3	1.97	0.45
1:A:462:LYS:C	1:A:462:LYS:CE	2.86	0.45
1:A:833:LEU:C	1:A:944:MET:HE2	2.42	0.45
1:A:969:PHE:CZ	1:A:978:ALA:HA	2.52	0.45
2:B:37:LEU:HD12	2:B:37:LEU:N	2.31	0.45
2:B:99:VAL:HG22	2:B:141:LEU:HD12	1.99	0.45
2:B:113:VAL:HB	2:B:114:SER:H	1.59	0.45
2:B:258:VAL:H	2:B:309:LEU:CD1	2.30	0.45
2:B:878:GLU:HB3	2:B:879:PRO:HD2	1.98	0.45
2:B:940:GLU:HG2	2:B:1014:TYR:CE2	2.52	0.45
2:B:1040:VAL:O	2:B:1043:LYS:HB2	2.16	0.45
3:C:70:ILE:HD11	3:C:321:LEU:HD13	1.97	0.45
3:C:152:ASP:OD2	3:C:154:LYS:CB	2.60	0.45
5:E:99:HIS:O	5:E:102:GLU:HB3	2.16	0.45
7:G:12:GLU:CD	7:G:15:ARG:HE	2.20	0.45
7:G:97:LYS:HB3	7:G:97:LYS:HE3	1.36	0.45
7:G:148:LEU:CD2	7:G:151:ASP:HA	2.46	0.45
10:J:41:LEU:O	10:J:47:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:47:ILE:HD11	11:K:63:PHE:HB3	1.99	0.45
13:M:30:PHE:CZ	13:M:32:ALA:HB2	2.51	0.45
15:O:616:SER:HG	15:O:620:ASP:HB3	1.80	0.45
15:O:640:SER:O	15:O:644:THR:OG1	2.28	0.45
15:O:645:LYS:C	15:O:647:GLU:H	2.25	0.45
15:O:715:TYR:CE1	15:O:734:LYS:CB	2.96	0.45
15:O:725:VAL:CB	16:P:450:THR:CA	2.76	0.45
16:P:104:PHE:HA	16:P:211:TYR:CE1	2.48	0.45
16:P:157:HIS:CD2	16:P:157:HIS:O	2.70	0.45
16:P:158:MET:HG3	16:P:192:TYR:OH	2.17	0.45
17:Q:380:SER:CB	17:Q:438:PHE:HZ	2.26	0.45
1:A:8:GLY:CA	7:G:115:PHE:CE2	3.01	0.44
1:A:385:LEU:CB	1:A:437:PHE:CD1	3.01	0.44
1:A:507:TYR:CD2	1:A:509:GLU:OE1	2.69	0.44
1:A:597:LYS:HE3	1:A:660:PRO:HG3	1.98	0.44
1:A:946:LEU:HD13	1:A:948:GLY:HA2	1.98	0.44
1:A:1154:LEU:O	1:A:1157:SER:OG	2.33	0.44
1:A:1628:ASP:O	1:A:1629:ASN:HB2	2.18	0.44
2:B:301:PHE:HZ	2:B:385:VAL:HG12	1.82	0.44
2:B:572:PRO:HG2	2:B:575:HIS:CD2	2.49	0.44
3:C:171:PRO:HB2	3:C:176:SER:CA	2.47	0.44
3:C:257:GLY:O	3:C:266:TYR:O	2.35	0.44
4:D:18:THR:HG23	4:D:19:PRO:HD2	1.98	0.44
4:D:28:PRO:HB3	7:G:39:VAL:HG13	1.99	0.44
7:G:93:ASP:HA	7:G:94:PRO:HD3	1.82	0.44
8:H:49:VAL:HG12	8:H:50:ALA:N	2.32	0.44
9:I:23:VAL:CG1	9:I:38:PRO:HG3	2.46	0.44
10:J:44:TYR:O	10:J:48:ARG:HG2	2.17	0.44
12:L:28:LYS:HA	12:L:38:LEU:O	2.16	0.44
14:N:124:THR:O	14:N:125:ALA:HB2	2.18	0.44
15:O:324:TRP:CH2	15:O:346:ASN:O	2.70	0.44
15:O:373:LEU:CA	15:O:375:PHE:CE1	3.00	0.44
15:O:475:ARG:HD3	17:Q:1:MET:HE1	1.99	0.44
15:O:592:LEU:HD12	16:P:512:ARG:HH22	1.57	0.44
15:O:630:LEU:HB2	15:O:662:LEU:HG	1.56	0.44
16:P:151:GLU:CD	16:P:151:GLU:C	2.85	0.44
16:P:184:TRP:HD1	16:P:190:MET:N	1.98	0.44
16:P:195:ALA:HB2	16:P:216:GLU:N	2.31	0.44
16:P:222:PHE:CZ	17:Q:206:ARG:CB	2.93	0.44
16:P:274:ILE:O	16:P:275:GLU:C	2.61	0.44
17:Q:22:GLN:CD	17:Q:173:MET:HE1	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:THR:HA	1:A:579:ARG:O	2.17	0.44
1:A:665:PRO:CD	1:A:790:LYS:H	2.21	0.44
1:A:701:ARG:NH2	11:K:94:PRO:CA	2.74	0.44
1:A:719:ILE:HG23	1:A:722:PRO:HD2	1.96	0.44
1:A:1516:LYS:HG3	1:A:1518:VAL:HG13	1.99	0.44
2:B:250:LEU:HD21	2:B:260:PHE:CD1	2.46	0.44
2:B:397:THR:HG22	2:B:649:MET:HE1	1.98	0.44
2:B:577:PHE:CG	2:B:577:PHE:O	2.70	0.44
2:B:1116:SER:O	2:B:1124:SER:HA	2.18	0.44
3:C:212:ILE:HG13	3:C:215:ASP:N	2.25	0.44
7:G:219:ASP:CG	7:G:220:SER:H	2.26	0.44
7:G:232:THR:O	7:G:248:THR:HG22	2.17	0.44
8:H:93:TYR:CE1	8:H:145:ARG:HB2	2.53	0.44
15:O:217:ALA:HB2	15:O:233:VAL:HA	1.99	0.44
16:P:137:TRP:O	16:P:141:LEU:HG	2.16	0.44
16:P:239:PHE:O	16:P:243:PHE:HB2	2.17	0.44
16:P:263:PRO:HB3	16:P:266:PHE:CE2	2.52	0.44
16:P:287:TRP:CZ2	16:P:298:VAL:HG11	2.42	0.44
16:P:378:LEU:CD2	17:Q:234:LYS:CB	2.77	0.44
17:Q:209:ARG:HG3	17:Q:210:THR:N	2.32	0.44
17:Q:280:SER:C	17:Q:282:SER:N	2.76	0.44
1:A:103:LEU:HD23	1:A:241:PRO:HD3	2.00	0.44
1:A:380:ASN:OD1	1:A:382:GLN:N	2.43	0.44
1:A:440:SER:N	1:A:458:GLN:HE22	2.16	0.44
1:A:466:LEU:HG	1:A:470:HIS:HB2	1.98	0.44
1:A:500:VAL:HG13	1:A:501:PHE:N	2.32	0.44
1:A:1482:LYS:HG2	2:B:308:LEU:CD2	2.48	0.44
1:A:1526:PHE:CD2	1:A:1552:THR:HG21	2.52	0.44
2:B:726:MET:HG3	2:B:742:TYR:HB2	1.94	0.44
2:B:753:LYS:HD3	2:B:757:TYR:CD2	2.52	0.44
2:B:783:MET:O	2:B:785:ASP:N	2.51	0.44
3:C:241:GLY:N	3:C:261:GLY:O	2.39	0.44
3:C:254:GLY:O	3:C:268:LYS:HB3	2.17	0.44
5:E:106:GLN:C	5:E:130:ALA:CB	2.79	0.44
7:G:24:VAL:HG21	7:G:126:GLN:NE2	2.32	0.44
7:G:138:PHE:HD2	7:G:139:ILE:HG12	1.82	0.44
7:G:144:HIS:HA	7:G:158:LYS:HA	1.99	0.44
8:H:6:PHE:HD2	8:H:59:ILE:CD1	2.31	0.44
11:K:46:LYS:HE3	11:K:65:ILE:CG2	2.48	0.44
13:M:21:VAL:HG11	14:N:109:LEU:HD11	1.98	0.44
14:N:67:LEU:HD21	14:N:82:ILE:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:222:GLN:NE2	15:O:227:LEU:C	2.60	0.44
15:O:302:VAL:C	15:O:320:ILE:HG13	2.41	0.44
15:O:306:ALA:O	15:O:317:ILE:HB	2.17	0.44
15:O:347:LEU:CD2	17:Q:152:ILE:HG13	2.38	0.44
15:O:352:PHE:O	15:O:353:ASP:C	2.58	0.44
15:O:357:LEU:CB	15:O:377:ARG:NH2	2.76	0.44
15:O:372:ILE:HG12	15:O:383:ILE:HB	1.99	0.44
15:O:473:HIS:H	15:O:504:THR:HG21	1.82	0.44
15:O:597:LYS:HE2	16:P:325:GLN:OE1	2.16	0.44
15:O:660:LYS:C	15:O:663:LEU:HB2	2.42	0.44
15:O:771:ILE:HD11	16:P:102:LEU:CD2	2.42	0.44
15:O:775:TRP:CD1	16:P:109:GLN:HB3	2.52	0.44
16:P:119:LEU:HD13	16:P:165:LEU:HD11	1.87	0.44
16:P:185:ILE:HD13	16:P:185:ILE:HA	1.83	0.44
16:P:281:ILE:CD1	16:P:281:ILE:N	2.73	0.44
16:P:355:VAL:C	17:Q:211:ARG:NH2	2.75	0.44
17:Q:393:ILE:CG1	17:Q:395:LEU:HB2	2.47	0.44
17:Q:398:ASP:O	17:Q:400:LYS:N	2.50	0.44
1:A:368:ARG:HG3	1:A:382:GLN:OE1	2.18	0.44
1:A:472:MET:HE3	1:A:1642:VAL:HG23	1.99	0.44
1:A:684:ASP:OD1	8:H:22:LYS:HG2	2.17	0.44
1:A:1114:TYR:O	1:A:1116:GLN:CG	2.66	0.44
1:A:1463:ASP:O	1:A:1467:GLY:N	2.51	0.44
1:A:1530:TRP:CG	5:E:142:VAL:HG21	2.52	0.44
2:B:217:ILE:HD11	2:B:222:PHE:CZ	2.52	0.44
2:B:225:ARG:CZ	2:B:268:GLU:OE1	2.66	0.44
2:B:331:GLY:O	2:B:335:ARG:N	2.51	0.44
2:B:846:PRO:HG2	2:B:882:ILE:HG21	1.99	0.44
3:C:143:ASN:ND2	3:C:157:TYR:C	2.76	0.44
3:C:172:GLN:H	3:C:175:GLN:HE21	1.66	0.44
4:D:25:THR:N	7:G:42:PRO:O	2.47	0.44
5:E:8:ASN:O	5:E:12:LEU:CB	2.66	0.44
5:E:28:TYR:HA	5:E:63:ASN:O	2.17	0.44
7:G:169:VAL:CG1	7:G:218:VAL:HG21	2.47	0.44
7:G:219:ASP:HB3	7:G:223:GLU:O	2.18	0.44
10:J:39:LEU:HA	10:J:39:LEU:HD23	1.75	0.44
13:M:75:GLN:O	14:N:58:PHE:HB2	2.17	0.44
15:O:172:PHE:CE1	17:Q:186:LEU:CB	2.87	0.44
15:O:289:SER:HB3	15:O:339:ARG:NH1	2.33	0.44
15:O:670:ALA:CA	15:O:738:LYS:HZ3	2.30	0.44
16:P:94:LYS:CG	16:P:207:LEU:CD1	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:113:LYS:O	16:P:116:ILE:CD1	2.65	0.44
16:P:222:PHE:O	16:P:223:ASN:CB	2.65	0.44
16:P:282:ARG:HB3	16:P:282:ARG:NH1	2.32	0.44
16:P:344:THR:O	16:P:345:SER:OG	2.35	0.44
17:Q:286:GLN:O	17:Q:290:TYR:CE1	2.71	0.44
1:A:129:LEU:HD11	1:A:196:ALA:HB2	2.00	0.44
1:A:416:ARG:CA	1:A:419:ILE:HG13	2.47	0.44
1:A:462:LYS:CA	1:A:462:LYS:CE	2.96	0.44
1:A:466:LEU:HD23	1:A:466:LEU:C	2.42	0.44
1:A:628:PHE:HB2	2:B:785:ASP:HB2	1.99	0.44
1:A:1483:LEU:HD12	1:A:1483:LEU:O	2.17	0.44
2:B:566:TYR:OH	13:M:70:SER:HB3	2.17	0.44
2:B:657:PRO:HG3	14:N:148:ILE:HD11	2.00	0.44
2:B:844:GLY:O	2:B:859:CYS:HA	2.17	0.44
2:B:857:PRO:HB3	2:B:871:ILE:HD12	1.99	0.44
3:C:269:ASP:HB3	3:C:272:LYS:HG3	1.98	0.44
5:E:8:ASN:O	5:E:12:LEU:HB3	2.18	0.44
7:G:137:ILE:HA	7:G:147:LEU:CD2	2.42	0.44
7:G:169:VAL:HG21	7:G:216:HIS:CD2	2.52	0.44
8:H:95:TYR:CE2	8:H:97:MET:CG	2.99	0.44
9:I:8:ILE:HG23	9:I:17:LEU:HD11	1.99	0.44
11:K:47:ILE:HD11	11:K:63:PHE:CB	2.47	0.44
13:M:28:LYS:HE2	14:N:104:LEU:O	2.18	0.44
14:N:144:LYS:HG2	14:N:146:PRO:HD3	1.99	0.44
15:O:5:UNK:O	15:O:6:UNK:CB	2.66	0.44
15:O:184:SER:O	15:O:185:GLN:HG3	2.17	0.44
15:O:437:SER:O	15:O:438:TRP:HB3	2.17	0.44
15:O:474:LYS:CE	15:O:498:LEU:HD21	2.48	0.44
15:O:511:ILE:HD13	15:O:536:ASP:C	2.43	0.44
15:O:530:ASN:O	15:O:531:PHE:CG	2.70	0.44
15:O:638:LEU:CD2	15:O:748:GLU:HG3	2.47	0.44
16:P:113:LYS:HA	16:P:116:ILE:HG12	1.98	0.44
16:P:116:ILE:CA	16:P:119:LEU:HD12	2.31	0.44
16:P:143:THR:OG1	16:P:236:MET:CE	2.65	0.44
16:P:194:GLN:C	16:P:216:GLU:HB3	2.42	0.44
16:P:208:PRO:CB	16:P:213:SER:N	2.81	0.44
16:P:284:LEU:CD1	16:P:305:ARG:HE	2.26	0.44
1:A:107:HIS:NE2	1:A:330:LYS:HD3	2.31	0.44
1:A:216:ARG:HE	1:A:341:SER:HA	1.79	0.44
1:A:597:LYS:H	1:A:1191:GLN:CD	2.23	0.44
1:A:721:LYS:HD3	8:H:96:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:885:ASP:HB3	1:A:888:LYS:HB2	2.00	0.44
1:A:1287:ALA:HA	1:A:1476:LEU:O	2.17	0.44
2:B:23:SER:O	2:B:26:ILE:HG22	2.17	0.44
2:B:421:LEU:HD23	2:B:424:ILE:HD12	1.99	0.44
2:B:743:ARG:NE	2:B:804:TYR:CE1	2.80	0.44
3:C:115:TRP:HH2	3:C:212:ILE:HG23	1.81	0.44
3:C:271:ARG:HB3	14:N:175:TYR:OH	2.18	0.44
7:G:14:ALA:HA	7:G:17:ILE:HG12	1.99	0.44
7:G:139:ILE:HG12	7:G:146:GLY:HA3	1.98	0.44
7:G:143:SER:O	7:G:158:LYS:CA	2.66	0.44
13:M:81:PHE:CE2	13:M:83:PRO:CA	3.00	0.44
15:O:217:ALA:HB3	15:O:229:ARG:HH11	1.77	0.44
15:O:247:ILE:HG12	15:O:261:VAL:CG1	2.48	0.44
15:O:329:ILE:HB	15:O:330:PRO:CD	2.47	0.44
15:O:424:VAL:CG2	15:O:437:SER:OG	2.63	0.44
15:O:431:ASP:CG	15:O:433:VAL:CG2	2.83	0.44
15:O:711:LEU:O	15:O:714:PHE:HB3	2.17	0.44
15:O:761:SER:O	15:O:764:LEU:N	2.49	0.44
15:O:775:TRP:CD1	16:P:109:GLN:O	2.70	0.44
16:P:165:LEU:C	16:P:165:LEU:CD2	2.85	0.44
17:Q:251:TRP:CE3	17:Q:251:TRP:O	2.71	0.44
1:A:11:ILE:HG12	2:B:1191:ALA:HB1	2.00	0.44
1:A:52:LEU:CD2	1:A:60:ASN:HB2	2.47	0.44
1:A:406:LEU:HD13	1:A:416:ARG:CG	2.46	0.44
1:A:457:LYS:C	1:A:459:ALA:N	2.74	0.44
1:A:1053:ASP:OD2	1:A:1580:ARG:NH2	2.48	0.44
2:B:259:THR:HG21	2:B:270:LEU:HD21	2.00	0.44
2:B:322:ASN:C	2:B:322:ASN:OD1	2.60	0.44
2:B:492:ASN:OD1	2:B:492:ASN:C	2.58	0.44
2:B:650:LEU:HB3	2:B:663:ILE:CG2	2.47	0.44
2:B:1005:TYR:CE1	2:B:1011:GLU:OE2	2.70	0.44
2:B:1111:LEU:HG	2:B:1111:LEU:O	2.17	0.44
3:C:115:TRP:HH2	3:C:212:ILE:CG2	2.31	0.44
3:C:152:ASP:C	3:C:154:LYS:N	2.72	0.44
5:E:19:VAL:HG11	5:E:80:VAL:HG11	1.99	0.44
8:H:22:LYS:HB3	8:H:45:GLU:OE1	2.18	0.44
8:H:108:SER:C	8:H:110:ASP:N	2.74	0.44
14:N:111:VAL:HG22	14:N:120:LYS:C	2.43	0.44
15:O:306:ALA:HB1	15:O:365:TRP:CE3	2.52	0.44
15:O:390:GLN:C	15:O:391:THR:HG1	2.26	0.44
15:O:458:LYS:HB3	15:O:459:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:611:ILE:HD13	15:O:731:LEU:HD23	1.99	0.44
15:O:722:TRP:CE2	16:P:262:LEU:HD21	2.23	0.44
16:P:274:ILE:CA	16:P:278:GLU:CB	2.94	0.44
16:P:412:LYS:O	16:P:415:LYS:CB	2.50	0.44
17:Q:27:ILE:HG12	17:Q:169:PRO:CB	2.47	0.44
17:Q:355:THR:HA	17:Q:359:MET:SD	2.58	0.44
17:Q:361:ASP:O	17:Q:364:VAL:HG22	2.18	0.44
1:A:185:ARG:O	1:A:189:VAL:HG23	2.17	0.44
1:A:486:PRO:HG3	1:A:628:PHE:CD2	2.53	0.44
1:A:790:LYS:CB	1:A:795:HIS:ND1	2.81	0.44
1:A:896:THR:O	1:A:900:VAL:HG22	2.17	0.44
1:A:1115:LYS:CB	5:E:152:LYS:HZ1	2.31	0.44
1:A:1123:VAL:HG21	1:A:1135:SER:HA	1.99	0.44
1:A:1568:ASN:O	1:A:1572:ARG:HG2	2.18	0.44
2:B:165:LEU:HD13	2:B:193:TYR:O	2.17	0.44
2:B:295:ASN:O	2:B:295:ASN:OD1	2.35	0.44
2:B:620:LEU:C	2:B:620:LEU:HD23	2.43	0.44
2:B:751:ILE:N	2:B:770:ASN:OD1	2.49	0.44
2:B:911:PRO:N	2:B:1035:ARG:HH12	2.16	0.44
2:B:1102:SER:HB3	2:B:1113:THR:HB	1.99	0.44
3:C:78:VAL:HG21	3:C:110:PRO:HA	1.99	0.44
3:C:147:PRO:HB2	3:C:148:LYS:CG	2.46	0.44
3:C:236:LEU:HG	3:C:289:VAL:CA	2.47	0.44
7:G:40:ARG:HD3	7:G:123:TYR:OH	2.17	0.44
7:G:42:PRO:HB3	7:G:121:ASN:ND2	2.33	0.44
7:G:218:VAL:HG22	7:G:224:PRO:CA	2.48	0.44
9:I:7:LEU:HB3	9:I:16:LEU:HD13	1.99	0.44
15:O:56:UNK:CB	15:O:552:LEU:HD23	2.48	0.44
15:O:232:ASN:HB2	15:O:281:SER:O	2.18	0.44
15:O:314:GLN:CA	15:O:329:ILE:CG1	2.73	0.44
15:O:339:ARG:CG	15:O:340:LYS:N	2.79	0.44
16:P:106:LYS:HA	16:P:109:GLN:CD	2.43	0.44
16:P:154:LEU:H	16:P:154:LEU:HD22	1.82	0.44
16:P:157:HIS:CD2	16:P:229:LYS:HG2	2.46	0.44
16:P:167:LEU:HA	16:P:170:THR:HG23	2.00	0.44
1:A:1:MET:SD	2:B:1094:ASN:CG	3.01	0.44
1:A:392:THR:CG2	1:A:430:ILE:CB	2.96	0.44
1:A:485:SER:O	1:A:615:ARG:HA	2.18	0.44
1:A:530:TRP:CG	1:A:531:PRO:HD2	2.43	0.44
1:A:530:TRP:CD2	1:A:531:PRO:HD3	2.47	0.44
1:A:596:HIS:ND1	1:A:1195:GLU:HG3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:717:PRO:CA	1:A:726:TRP:CE2	3.01	0.44
1:A:799:GLU:HG2	1:A:1062:HIS:CG	2.53	0.44
1:A:821:ILE:O	1:A:825:ALA:HA	2.18	0.44
1:A:900:VAL:HA	1:A:903:ILE:HG12	1.99	0.44
1:A:903:ILE:O	1:A:907:VAL:HG23	2.17	0.44
1:A:1268:ASP:HB3	1:A:1295:ARG:O	2.17	0.44
1:A:1309:SER:HB2	1:A:1311:GLU:OE1	2.18	0.44
1:A:1313:LEU:HG	1:A:1317:ILE:HD11	2.00	0.44
1:A:1640:ARG:HD3	1:A:1646:LEU:C	2.39	0.44
2:B:721:MET:HE2	2:B:721:MET:N	2.33	0.44
2:B:731:VAL:HG21	10:J:59:LYS:HE3	1.99	0.44
2:B:822:THR:HB	2:B:864:ASP:H	1.83	0.44
2:B:979:GLN:OE1	2:B:996:PHE:HE1	2.01	0.44
2:B:1053:ASN:OD1	2:B:1054:SER:N	2.51	0.44
2:B:1056:THR:HB	2:B:1058:GLN:CD	2.43	0.44
3:C:251:PHE:HB3	3:C:252:PRO:HD2	1.99	0.44
5:E:46:TYR:CD1	5:E:58:MET:HG2	2.53	0.44
5:E:96:PHE:O	5:E:100:ILE:HG12	2.18	0.44
8:H:129:TYR:O	8:H:132:LEU:HG	2.18	0.44
15:O:696:PHE:CE1	15:O:711:LEU:HD21	2.20	0.44
16:P:385:PHE:CZ	17:Q:212:HIS:HD2	2.23	0.44
16:P:419:LEU:HD12	16:P:419:LEU:C	2.32	0.44
17:Q:173:MET:O	17:Q:177:LEU:HB2	2.18	0.44
17:Q:211:ARG:NH1	17:Q:212:HIS:NE2	2.65	0.44
17:Q:388:LYS:HE3	17:Q:393:ILE:CB	2.48	0.44
17:Q:393:ILE:CD1	17:Q:397:ARG:C	2.80	0.44
1:A:81:LEU:HD12	1:A:358:ASP:HA	1.95	0.43
1:A:241:PRO:HB2	1:A:253:GLU:HG3	2.00	0.43
1:A:591:ARG:HB2	1:A:624:TYR:HD1	1.83	0.43
1:A:629:ASP:N	2:B:785:ASP:OD2	2.50	0.43
1:A:638:PRO:N	2:B:1091:ARG:HH22	2.16	0.43
1:A:749:LEU:HB3	1:A:771:PHE:CD2	2.53	0.43
1:A:1116:GLN:CD	1:A:1116:GLN:C	2.86	0.43
2:B:640:LEU:HD12	2:B:640:LEU:HA	1.80	0.43
2:B:721:MET:SD	2:B:1036:LEU:HD11	2.58	0.43
7:G:11:ARG:O	7:G:14:ALA:HB3	2.18	0.43
9:I:7:LEU:CA	9:I:16:LEU:HD11	2.47	0.43
12:L:48:CYS:HB3	12:L:52:GLY:H	1.82	0.43
15:O:292:LEU:HB2	15:O:293:TYR:H	1.65	0.43
15:O:367:SER:HB2	15:O:369:PHE:CD2	2.52	0.43
15:O:438:TRP:HH2	15:O:491:SER:CB	2.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:725:VAL:HG13	16:P:449:GLN:HE21	1.83	0.43
16:P:132:VAL:HG11	16:P:171:HIS:CG	2.52	0.43
16:P:211:TYR:C	16:P:214:ILE:HG22	2.43	0.43
16:P:442:LEU:HD11	16:P:446:TYR:OH	2.18	0.43
17:Q:208:TYR:O	17:Q:211:ARG:HG3	2.06	0.43
17:Q:242:ILE:C	17:Q:244:GLY:H	2.25	0.43
1:A:89:LEU:HG	1:A:1623:THR:OG1	2.18	0.43
1:A:214:ASP:OD2	1:A:218:LYS:HE2	2.18	0.43
1:A:217:LYS:NZ	1:A:1605:THR:HA	2.33	0.43
1:A:780:ILE:O	1:A:781:LEU:HD23	2.18	0.43
1:A:1052:GLY:O	1:A:1124:LEU:HD13	2.18	0.43
2:B:30:LYS:HG2	2:B:178:TYR:HB2	2.00	0.43
2:B:374:LEU:HD12	2:B:377:MET:CE	2.48	0.43
2:B:711:GLN:HG2	2:B:713:PRO:HD2	1.99	0.43
2:B:934:ILE:HD12	3:C:69:ARG:CG	2.48	0.43
2:B:1040:VAL:HA	2:B:1043:LYS:CG	2.44	0.43
3:C:68:ARG:HD3	3:C:227:TYR:CE2	2.52	0.43
3:C:315:PHE:HB3	3:C:319:ARG:HH22	1.81	0.43
4:D:91:ARG:HD3	7:G:151:ASP:OD2	2.18	0.43
5:E:69:ILE:HD12	5:E:69:ILE:HA	1.90	0.43
7:G:237:HIS:O	7:G:243:VAL:HA	2.18	0.43
8:H:37:LYS:HB2	8:H:126:GLU:CB	2.47	0.43
9:I:23:VAL:CB	9:I:38:PRO:HG2	2.48	0.43
13:M:77:VAL:CG2	14:N:58:PHE:HD2	2.30	0.43
15:O:271:ILE:CG2	15:O:272:PHE:N	2.81	0.43
15:O:506:THR:HG21	15:O:540:LYS:NZ	2.33	0.43
15:O:657:SER:OG	15:O:745:ALA:O	2.26	0.43
16:P:125:PHE:CD2	16:P:129:PHE:CB	2.88	0.43
16:P:183:LYS:HE2	16:P:183:LYS:HB3	1.78	0.43
16:P:318:LEU:O	16:P:472:ARG:NH2	2.50	0.43
16:P:354:LYS:CE	16:P:362:THR:CG2	2.93	0.43
17:Q:204:GLU:CD	17:Q:204:GLU:C	2.85	0.43
1:A:102:CYS:O	1:A:106:HIS:HA	2.19	0.43
1:A:475:ARG:HD2	2:B:1059:PRO:O	2.17	0.43
1:A:1164:LYS:O	1:A:1168:ALA:HB2	2.18	0.43
1:A:1474:LEU:CD2	1:A:1476:LEU:HG	2.48	0.43
1:A:1529:MET:HE2	1:A:1529:MET:N	2.33	0.43
2:B:194:PHE:CD2	2:B:465:LEU:CD2	3.00	0.43
2:B:238:SER:HB3	2:B:361:HIS:H	1.83	0.43
2:B:361:HIS:NE2	2:B:362:LEU:HG	2.33	0.43
2:B:538:PRO:HA	2:B:541:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:931:TRP:NE1	2:B:935:ASP:HB3	2.33	0.43
2:B:934:ILE:HD12	3:C:69:ARG:HG3	2.00	0.43
3:C:229:LEU:HD23	3:C:298:PHE:CD1	2.53	0.43
5:E:13:TRP:CB	5:E:39:LEU:CD1	2.96	0.43
5:E:124:VAL:N	5:E:125:PRO:CD	2.81	0.43
5:E:156:LEU:HD23	5:E:156:LEU:HA	1.79	0.43
7:G:48:SER:HB3	7:G:115:PHE:HE1	1.83	0.43
8:H:41:ASP:O	8:H:121:LEU:HD23	2.18	0.43
8:H:125:LEU:HD12	8:H:126:GLU:N	2.33	0.43
8:H:125:LEU:HD12	8:H:126:GLU:H	1.83	0.43
8:H:131:ASN:OD1	8:H:132:LEU:HG	2.18	0.43
9:I:17:LEU:CD1	9:I:37:TYR:OH	2.56	0.43
9:I:61:ARG:O	9:I:65:SER:HB3	2.18	0.43
11:K:43:ASP:OD2	11:K:46:LYS:HB2	2.19	0.43
14:N:74:PHE:C	14:N:76:SER:H	2.25	0.43
14:N:172:ALA:CB	14:N:175:TYR:HD2	2.16	0.43
15:O:55:UNK:O	15:O:552:LEU:CD2	2.66	0.43
15:O:225:LEU:CD2	15:O:225:LEU:H	2.23	0.43
15:O:345:ASP:O	17:Q:152:ILE:HG23	2.18	0.43
15:O:472:ARG:NH2	17:Q:198:LEU:O	2.51	0.43
15:O:779:ASP:O	16:P:199:LEU:CD2	2.63	0.43
16:P:205:ILE:C	16:P:208:PRO:HD3	2.43	0.43
16:P:240:LYS:HG3	16:P:241:GLU:N	2.33	0.43
17:Q:304:HIS:CD2	17:Q:304:HIS:C	2.95	0.43
17:Q:383:PHE:O	17:Q:383:PHE:CD1	2.70	0.43
1:A:239:PHE:CZ	1:A:263:ASN:CG	2.95	0.43
1:A:326:THR:HA	1:A:329:ARG:NH1	2.34	0.43
1:A:438:ILE:N	2:B:1184:TYR:OH	2.52	0.43
1:A:845:ASP:O	1:A:848:LYS:HB2	2.19	0.43
1:A:1155:PHE:CE1	1:A:1163:GLU:HG3	2.54	0.43
1:A:1254:PHE:HZ	1:A:1532:GLN:CB	2.27	0.43
1:A:1459:LYS:HB2	1:A:1473:LYS:CB	2.48	0.43
2:B:328:GLN:NE2	13:M:109:ARG:H	2.16	0.43
2:B:1178:ILE:O	2:B:1181:VAL:CG2	2.65	0.43
5:E:47:CYS:HA	5:E:52:ARG:C	2.43	0.43
5:E:122:LYS:O	5:E:125:PRO:HD2	2.18	0.43
14:N:55:LEU:N	14:N:135:LYS:O	2.38	0.43
14:N:93:THR:O	14:N:93:THR:OG1	2.31	0.43
15:O:222:GLN:O	15:O:224:THR:N	2.51	0.43
15:O:324:TRP:CE3	15:O:325:SER:N	2.87	0.43
15:O:366:PHE:CZ	15:O:426:ALA:O	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:374:VAL:N	15:O:375:PHE:CE1	2.84	0.43
15:O:508:ILE:HG12	15:O:539:VAL:CG1	2.36	0.43
15:O:537:PHE:CE1	15:O:552:LEU:HD11	2.49	0.43
15:O:613:HIS:HD2	15:O:619:GLU:HG2	1.83	0.43
15:O:623:LEU:CD1	15:O:669:PHE:CA	2.97	0.43
16:P:137:TRP:NE1	16:P:141:LEU:CG	2.82	0.43
16:P:337:SER:CA	16:P:448:LYS:CE	2.91	0.43
16:P:356:VAL:O	17:Q:206:ARG:NE	2.52	0.43
16:P:360:LYS:HG3	16:P:363:SER:CB	2.48	0.43
16:P:402:MET:HE3	16:P:402:MET:HB2	1.78	0.43
17:Q:175:ILE:N	17:Q:176:PRO:HD2	2.33	0.43
17:Q:204:GLU:OE2	17:Q:205:VAL:N	2.52	0.43
1:A:1:MET:HA	2:B:1098:TYR:CE2	2.53	0.43
1:A:2:ASP:OD1	1:A:4:SER:N	2.29	0.43
1:A:76:GLN:OE1	2:B:1183:LYS:HG3	2.19	0.43
1:A:82:PRO:HG2	1:A:393:SER:HB3	2.01	0.43
1:A:665:PRO:O	1:A:666:VAL:CG2	2.66	0.43
1:A:708:THR:CG2	1:A:742:PRO:HD2	2.48	0.43
1:A:1482:LYS:CG	2:B:308:LEU:HD21	2.49	0.43
1:A:1655:ASP:HB2	6:F:137:TYR:CE2	2.54	0.43
2:B:203:ILE:CG2	2:B:405:GLY:CA	2.97	0.43
2:B:290:ASP:CG	13:M:28:LYS:HB2	2.44	0.43
2:B:664:VAL:HG13	2:B:668:GLU:OE2	2.18	0.43
2:B:774:ALA:HB2	2:B:945:PRO:CG	2.48	0.43
2:B:887:LEU:HD12	2:B:887:LEU:N	2.34	0.43
2:B:970:LYS:NZ	2:B:1011:GLU:OE2	2.49	0.43
2:B:1118:PRO:HD3	2:B:1124:SER:HB3	1.99	0.43
3:C:119:ASN:OD1	3:C:119:ASN:C	2.61	0.43
4:D:15:THR:C	4:D:17:ASN:N	2.76	0.43
5:E:6:GLU:OE1	5:E:43:LYS:HE3	2.18	0.43
5:E:55:ARG:HB3	5:E:82:PHE:O	2.18	0.43
6:F:76:LYS:HA	6:F:79:ARG:HG3	2.01	0.43
7:G:166:TRP:HZ3	7:G:225:ILE:HG22	1.83	0.43
9:I:8:ILE:HD13	9:I:37:TYR:HE2	1.75	0.43
11:K:70:HIS:O	11:K:71:THR:C	2.60	0.43
14:N:149:ASP:O	14:N:153:VAL:HG22	2.18	0.43
15:O:65:UNK:O	15:O:66:UNK:C	2.66	0.43
15:O:189:THR:CG2	15:O:259:ASN:ND2	2.80	0.43
15:O:201:GLU:HA	15:O:202:ILE:HD12	2.00	0.43
15:O:237:GLU:C	15:O:237:GLU:CD	2.85	0.43
15:O:539:VAL:HG21	15:O:550:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:574:TRP:CZ3	16:P:484:ALA:CB	3.01	0.43
15:O:585:GLU:O	15:O:588:SER:HB2	2.18	0.43
15:O:623:LEU:HD22	15:O:674:GLU:OE1	2.18	0.43
15:O:724:LEU:HD12	16:P:446:TYR:HB2	1.93	0.43
16:P:125:PHE:HA	16:P:126:PRO:HD2	1.51	0.43
16:P:211:TYR:O	16:P:214:ILE:CG2	2.66	0.43
16:P:372:GLU:C	16:P:375:LEU:H	2.24	0.43
16:P:474:GLU:OE1	16:P:474:GLU:HA	2.18	0.43
17:Q:155:GLN:HE21	17:Q:156:LYS:N	2.17	0.43
17:Q:353:VAL:O	17:Q:353:VAL:HG12	2.19	0.43
17:Q:361:ASP:C	17:Q:364:VAL:CG2	2.91	0.43
17:Q:380:SER:O	17:Q:384:VAL:N	2.51	0.43
1:A:1133:LEU:HD11	1:A:1172:LEU:N	2.33	0.43
1:A:1260:LYS:HD3	1:A:1500:GLN:HG3	1.99	0.43
1:A:1662:ASN:N	7:G:102:GLU:HA	2.33	0.43
2:B:307:GLU:HG3	9:I:7:LEU:HG	1.99	0.43
2:B:314:LYS:HE2	9:I:16:LEU:O	2.18	0.43
2:B:656:LEU:N	2:B:657:PRO:CD	2.82	0.43
2:B:675:ALA:HB2	2:B:686:HIS:ND1	2.33	0.43
2:B:858:ILE:HD11	2:B:874:TYR:CD1	2.53	0.43
2:B:906:ARG:NH1	3:C:94:ASP:H	2.09	0.43
2:B:1167:PHE:CE2	2:B:1168:VAL:O	2.71	0.43
3:C:37:LYS:HG3	11:K:130:VAL:CG1	2.42	0.43
5:E:14:ARG:CZ	5:E:141:VAL:HG13	2.48	0.43
5:E:169:ARG:HD3	6:F:140:ASP:OD2	2.19	0.43
9:I:60:LEU:O	9:I:64:LYS:HG3	2.19	0.43
14:N:49:LYS:HA	14:N:49:LYS:HD2	1.84	0.43
14:N:101:GLN:OE1	14:N:104:LEU:HD13	2.19	0.43
15:O:232:ASN:O	15:O:233:VAL:HG23	2.17	0.43
15:O:306:ALA:O	15:O:317:ILE:HD13	2.18	0.43
15:O:396:ALA:O	15:O:397:LYS:CB	2.66	0.43
15:O:437:SER:HB2	15:O:489:PHE:HD2	1.81	0.43
15:O:541:LEU:N	15:O:541:LEU:CD1	2.82	0.43
15:O:623:LEU:HD13	15:O:669:PHE:CA	2.48	0.43
16:P:152:LEU:HD22	16:P:152:LEU:H	1.77	0.43
1:A:326:THR:HA	1:A:329:ARG:HH12	1.84	0.43
1:A:461:GLU:HB3	1:A:462:LYS:H	1.50	0.43
1:A:862:THR:HG21	1:A:864:LEU:HD12	2.01	0.43
1:A:1032:VAL:HG12	1:A:1033:SER:O	2.18	0.43
1:A:1101:THR:OG1	1:A:1105:ARG:NH2	2.52	0.43
1:A:1124:LEU:CD2	1:A:1129:PRO:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1219:ILE:N	1:A:1220:PRO:CD	2.81	0.43
1:A:1238:MET:HG3	1:A:1543:SER:OG	2.19	0.43
2:B:132:SER:HA	2:B:196:VAL:HA	2.00	0.43
2:B:157:ASP:O	2:B:157:ASP:OD1	2.36	0.43
2:B:252:TYR:OH	2:B:256:GLY:HA2	2.18	0.43
2:B:811:LEU:HG	2:B:899:GLN:CB	2.31	0.43
2:B:841:ASP:C	2:B:843:ASP:H	2.25	0.43
2:B:894:LYS:CG	2:B:896:GLN:HG2	2.48	0.43
3:C:84:TYR:O	3:C:204:LEU:HA	2.19	0.43
3:C:328:LEU:HB2	11:K:121:LEU:HD22	2.01	0.43
7:G:56:ASN:ND2	7:G:59:GLN:OE1	2.51	0.43
8:H:128:ASN:ND2	8:H:129:TYR:HD2	2.16	0.43
15:O:210:THR:O	15:O:211:GLY:C	2.41	0.43
15:O:222:GLN:NE2	15:O:227:LEU:CA	2.79	0.43
15:O:264:ILE:CD1	15:O:302:VAL:CG1	2.96	0.43
15:O:272:PHE:CD1	15:O:288:SER:HA	2.54	0.43
15:O:294:PHE:CG	15:O:294:PHE:O	2.70	0.43
15:O:390:GLN:CB	17:Q:151:PRO:HG3	2.32	0.43
15:O:394:VAL:HG12	17:Q:141:TRP:CD1	2.54	0.43
16:P:247:ILE:HG22	16:P:302:ALA:CB	2.46	0.43
17:Q:211:ARG:HG3	17:Q:212:HIS:N	2.33	0.43
17:Q:398:ASP:CG	17:Q:401:ILE:HG13	2.44	0.43
17:Q:422:GLY:O	17:Q:424:PHE:CE2	2.71	0.43
1:A:99:ARG:O	1:A:109:ARG:NH1	2.51	0.43
1:A:109:ARG:HD3	1:A:230:ARG:C	2.44	0.43
1:A:252:PHE:HD1	1:A:314:TYR:HD1	1.66	0.43
1:A:493:ASN:OD1	1:A:493:ASN:C	2.62	0.43
1:A:718:THR:OG1	1:A:727:THR:HG23	2.19	0.43
1:A:718:THR:HB	1:A:725:LEU:O	2.19	0.43
1:A:1034:TYR:HA	1:A:1181:PRO:HB3	2.01	0.43
2:B:172:LEU:HD23	2:B:175:MET:SD	2.58	0.43
2:B:310:LEU:O	2:B:314:LYS:HG3	2.19	0.43
2:B:741:LEU:HA	2:B:741:LEU:HD23	1.74	0.43
2:B:975:HIS:HE1	2:B:999:GLN:O	2.01	0.43
5:E:32:GLN:HE21	5:E:36:GLU:HG3	1.84	0.43
5:E:127:ILE:CB	5:E:129:PRO:HD2	2.46	0.43
6:F:97:ARG:HG2	6:F:130:ILE:HG12	2.00	0.43
10:J:28:ASP:C	10:J:30:LEU:N	2.75	0.43
13:M:47:GLU:C	13:M:47:GLU:CD	2.86	0.43
14:N:105:SER:HB3	14:N:132:GLN:NE2	2.34	0.43
15:O:356:GLU:N	15:O:356:GLU:OE1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:436:ILE:CG1	17:Q:141:TRP:HZ3	2.26	0.43
15:O:440:HIS:HE1	15:O:481:PHE:HE1	1.52	0.43
15:O:488:LEU:C	15:O:488:LEU:HD23	2.44	0.43
15:O:604:ILE:CG2	15:O:732:LEU:CD2	2.97	0.43
16:P:95:LEU:HD22	16:P:100:ALA:N	2.34	0.43
16:P:188:ALA:O	16:P:189:LYS:C	2.59	0.43
16:P:195:ALA:HB2	16:P:216:GLU:HB2	0.43	0.43
16:P:226:LEU:O	16:P:230:ILE:HG13	2.19	0.43
17:Q:303:THR:HG23	17:Q:304:HIS:N	2.30	0.43
17:Q:386:ASP:O	17:Q:390:ASN:CA	2.67	0.43
1:A:464:GLU:HG2	1:A:465:GLY:H	1.84	0.43
1:A:532:GLY:N	1:A:580:HIS:HD2	2.15	0.43
1:A:669:LEU:HB3	1:A:673:HIS:HB2	2.01	0.43
1:A:729:LYS:HE2	8:H:120:GLY:HA3	1.97	0.43
1:A:1631:ARG:CD	1:A:1633:GLN:HE22	2.32	0.43
1:A:1640:ARG:HG3	1:A:1645:LYS:HB2	1.99	0.43
2:B:576:THR:HG21	2:B:595:TRP:CB	2.49	0.43
2:B:675:ALA:CB	2:B:681:ILE:HG12	2.48	0.43
2:B:725:THR:HA	2:B:1036:LEU:HD23	1.99	0.43
2:B:773:VAL:HA	2:B:947:ILE:O	2.18	0.43
2:B:829:ASN:C	2:B:831:GLU:N	2.76	0.43
2:B:894:LYS:O	2:B:896:GLN:N	2.52	0.43
2:B:895:PHE:CZ	2:B:899:GLN:CB	2.91	0.43
2:B:1105:ARG:NH1	2:B:1167:PHE:HB2	2.34	0.43
3:C:314:PHE:HD2	11:K:135:PHE:CE2	2.37	0.43
7:G:85:GLU:O	7:G:120:VAL:HG23	2.19	0.43
8:H:6:PHE:HD2	8:H:59:ILE:HD12	1.84	0.43
15:O:213:VAL:HG12	15:O:214:LEU:N	2.33	0.43
15:O:244:SER:C	15:O:245:ILE:HG13	2.44	0.43
15:O:260:LEU:CD1	15:O:272:PHE:N	2.63	0.43
15:O:300:LEU:HD12	15:O:300:LEU:O	2.18	0.43
15:O:324:TRP:CD2	15:O:346:ASN:OD1	2.72	0.43
15:O:393:VAL:HG23	15:O:394:VAL:HG13	2.00	0.43
15:O:436:ILE:CD1	15:O:436:ILE:O	2.67	0.43
15:O:568:ILE:HG21	15:O:570:ASP:OD2	2.17	0.43
15:O:623:LEU:HD13	15:O:668:SER:C	2.30	0.43
16:P:195:ALA:HA	16:P:216:GLU:CG	2.49	0.43
16:P:209:ASN:HB2	16:P:211:TYR:CE2	2.54	0.43
16:P:257:VAL:C	16:P:262:LEU:HB2	2.44	0.43
16:P:274:ILE:HG23	16:P:278:GLU:HG3	2.00	0.43
1:A:115:VAL:HA	1:A:118:TYR:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:PHE:CE2	1:A:442:LYS:HG2	2.54	0.43
1:A:252:PHE:CD1	1:A:314:TYR:CD1	3.06	0.43
1:A:381:SER:CB	1:A:453:ILE:HD12	2.42	0.43
1:A:718:THR:OG1	1:A:730:GLN:CD	2.62	0.43
1:A:736:LEU:HD23	1:A:736:LEU:HA	1.87	0.43
1:A:1060:GLU:O	1:A:1061:SER:C	2.61	0.43
1:A:1152:SER:O	1:A:1156:LYS:HG3	2.19	0.43
1:A:1290:TYR:CD1	1:A:1485:MET:HE3	2.54	0.43
1:A:1544:ASN:HA	1:A:1565:GLU:CD	2.44	0.43
2:B:172:LEU:CD2	2:B:175:MET:SD	3.07	0.43
2:B:211:ARG:N	2:B:401:GLU:OE2	2.51	0.43
2:B:1139:LYS:O	2:B:1142:LEU:N	2.51	0.43
3:C:45:SER:HG	3:C:271:ARG:HH12	1.65	0.43
3:C:53:ASN:OD1	3:C:53:ASN:C	2.61	0.43
3:C:218:LYS:NZ	12:L:70:ARG:HE	2.16	0.43
5:E:89:GLY:HA2	5:E:117:THR:CG2	2.49	0.43
5:E:188:LEU:HB2	5:E:190:LEU:HG	2.01	0.43
6:F:114:GLU:OE2	6:F:116:ASP:HB3	2.19	0.43
7:G:48:SER:CB	7:G:115:PHE:HE1	2.31	0.43
8:H:93:TYR:HB2	8:H:143:LEU:HB3	2.00	0.43
9:I:8:ILE:HG23	9:I:17:LEU:HD12	2.00	0.43
9:I:25:GLY:O	9:I:26:SER:O	2.37	0.43
13:M:21:VAL:HG22	14:N:112:PRO:HD2	2.00	0.43
14:N:33:LYS:C	14:N:115:SER:HB3	2.43	0.43
15:O:306:ALA:O	15:O:317:ILE:CD1	2.67	0.43
15:O:314:GLN:CD	15:O:330:PRO:O	2.61	0.43
15:O:328:ARG:O	15:O:340:LYS:CA	2.60	0.43
15:O:395:GLN:NE2	15:O:397:LYS:C	2.77	0.43
15:O:469:TYR:O	15:O:469:TYR:CD1	2.72	0.43
15:O:472:ARG:NH1	17:Q:200:THR:OG1	2.51	0.43
15:O:569:VAL:HG21	16:P:477:GLY:C	2.42	0.43
15:O:757:GLN:O	15:O:760:ILE:HG23	2.19	0.43
16:P:104:PHE:CE2	16:P:155:GLN:HA	2.52	0.43
17:Q:128:TRP:O	17:Q:132:GLU:N	2.52	0.43
19:S:1:DC:N4	20:T:53:DT:N3	2.66	0.43
19:S:3:DA:N1	20:T:52:DT:O2	2.52	0.43
1:A:533:ALA:CB	1:A:579:ARG:HA	2.49	0.42
1:A:1102:LEU:O	1:A:1106:LYS:HG3	2.19	0.42
2:B:129:ARG:HD3	2:B:890:ASP:CG	2.43	0.42
2:B:568:LEU:HD23	2:B:568:LEU:HA	1.90	0.42
3:C:244:ALA:O	3:C:258:ILE:HD11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:285:PHE:HA	3:C:288:LYS:HG2	2.00	0.42
5:E:13:TRP:CB	5:E:39:LEU:HD13	2.49	0.42
5:E:96:PHE:CZ	5:E:100:ILE:HG13	2.53	0.42
6:F:112:GLU:HG2	6:F:123:LYS:NZ	2.33	0.42
7:G:236:VAL:HG13	7:G:245:VAL:CG2	2.49	0.42
8:H:113:ALA:HA	8:H:125:LEU:O	2.19	0.42
9:I:34:LYS:H	13:M:59:ARG:NH2	2.17	0.42
10:J:31:ASP:OD1	10:J:34:THR:OG1	2.32	0.42
11:K:54:THR:HG23	11:K:61:ALA:CB	2.49	0.42
13:M:67:ASP:O	13:M:71:GLN:HG2	2.19	0.42
15:O:226:HIS:O	15:O:226:HIS:CG	2.70	0.42
15:O:318:ILE:HG23	15:O:340:LYS:HZ3	1.81	0.42
15:O:352:PHE:HB3	15:O:355:GLU:H	1.81	0.42
15:O:648:SER:CB	15:O:759:GLU:OE2	2.67	0.42
15:O:713:ILE:C	15:O:715:TYR:N	2.77	0.42
16:P:154:LEU:HD22	16:P:154:LEU:N	2.34	0.42
16:P:234:CYS:O	16:P:289:ARG:HB3	2.19	0.42
16:P:256:LEU:HD21	16:P:307:LEU:CD2	2.48	0.42
16:P:259:GLN:NE2	16:P:259:GLN:C	2.73	0.42
16:P:416:ILE:N	16:P:418:PRO:HD3	2.25	0.42
16:P:419:LEU:HD21	17:Q:237:ALA:HB2	0.69	0.42
1:A:332:GLN:HA	1:A:335:LEU:HB2	2.01	0.42
1:A:473:GLY:C	2:B:1070:ARG:HE	2.26	0.42
1:A:546:LEU:HD22	1:A:554:ARG:CD	2.49	0.42
1:A:711:LYS:HE3	1:A:711:LYS:HB2	1.86	0.42
1:A:1440:ASN:O	1:A:1444:ARG:HG3	2.20	0.42
2:B:65:VAL:O	2:B:68:ILE:HG12	2.19	0.42
2:B:247:THR:OG1	2:B:477:ASP:OD2	2.33	0.42
2:B:286:ARG:NH1	2:B:289:PHE:CD2	2.87	0.42
2:B:333:LYS:HA	2:B:333:LYS:HD2	1.89	0.42
2:B:655:TYR:CE1	2:B:657:PRO:HD2	2.54	0.42
2:B:726:MET:HB2	2:B:1037:ARG:HA	2.02	0.42
3:C:56:LEU:HD12	3:C:56:LEU:N	2.34	0.42
6:F:103:MET:HB3	7:G:51:PRO:CG	2.50	0.42
7:G:45:LEU:HD12	7:G:45:LEU:O	2.18	0.42
7:G:169:VAL:HG13	7:G:218:VAL:CG2	2.49	0.42
8:H:49:VAL:CG1	8:H:50:ALA:N	2.82	0.42
8:H:103:LYS:O	8:H:115:TYR:HD2	2.02	0.42
10:J:41:LEU:O	10:J:47:ARG:CD	2.67	0.42
14:N:80:MET:CB	14:N:89:ILE:HD11	2.44	0.42
15:O:181:ARG:O	15:O:182:LEU:CG	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:214:LEU:H	15:O:236:ILE:CG2	2.31	0.42
15:O:426:ALA:O	15:O:427:SER:C	2.60	0.42
15:O:604:ILE:CG1	15:O:732:LEU:HD23	2.40	0.42
15:O:692:THR:HA	15:O:747:LEU:CD1	2.47	0.42
17:Q:266:SER:OG	17:Q:268:LEU:CB	2.58	0.42
17:Q:283:ARG:HB2	17:Q:302:ARG:HB2	1.96	0.42
17:Q:304:HIS:O	17:Q:305:THR:O	2.37	0.42
1:A:89:LEU:CG	1:A:1623:THR:OG1	2.67	0.42
1:A:326:THR:HG23	1:A:329:ARG:HH12	1.84	0.42
1:A:406:LEU:CD1	1:A:416:ARG:CG	2.96	0.42
1:A:586:VAL:CG2	1:A:647:ALA:HB3	2.49	0.42
1:A:711:LYS:HE2	1:A:712:ILE:O	2.19	0.42
1:A:1085:LEU:C	1:A:1085:LEU:HD12	2.44	0.42
1:A:1241:PRO:HG3	1:A:1540:GLY:CA	2.49	0.42
1:A:1459:LYS:HG3	1:A:1473:LYS:HB3	2.01	0.42
2:B:139:LEU:CD2	2:B:158:CYS:SG	3.07	0.42
2:B:203:ILE:HG21	2:B:405:GLY:CA	2.49	0.42
2:B:548:LYS:HG3	2:B:695:ASN:CG	2.43	0.42
2:B:726:MET:CG	2:B:742:TYR:HB3	2.45	0.42
2:B:817:ARG:O	2:B:819:ASP:CB	2.60	0.42
3:C:215:ASP:CG	12:L:70:ARG:HH22	2.26	0.42
5:E:79:TRP:O	5:E:109:ILE:N	2.46	0.42
5:E:88:VAL:HG21	5:E:110:PHE:CE2	2.45	0.42
6:F:76:LYS:HD3	6:F:79:ARG:HD3	2.01	0.42
7:G:241:ARG:CD	7:G:242:VAL:HG13	2.49	0.42
8:H:6:PHE:CD2	8:H:59:ILE:HD12	2.54	0.42
8:H:21:ASN:OD1	8:H:21:ASN:C	2.61	0.42
8:H:44:VAL:HA	8:H:47:PHE:C	2.44	0.42
15:O:205:TYR:CG	15:O:215:ASN:HB2	2.35	0.42
15:O:216:ILE:C	15:O:234:THR:HG1	2.11	0.42
15:O:301:GLN:CG	15:O:321:LYS:NZ	2.81	0.42
15:O:319:ASP:HA	15:O:324:TRP:CA	2.49	0.42
15:O:365:TRP:HE1	15:O:407:ARG:CZ	2.33	0.42
15:O:568:ILE:HD12	15:O:568:ILE:HA	1.76	0.42
15:O:679:LEU:HD22	15:O:683:PHE:HE2	1.85	0.42
15:O:722:TRP:C	15:O:724:LEU:N	2.77	0.42
16:P:158:MET:HB2	16:P:192:TYR:CE1	2.53	0.42
16:P:378:LEU:HD13	17:Q:234:LYS:CB	2.26	0.42
17:Q:177:LEU:HD22	17:Q:185:LYS:HA	2.01	0.42
17:Q:246:GLN:O	17:Q:248:LYS:CA	2.65	0.42
17:Q:395:LEU:O	17:Q:396:ASP:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:GLU:OE2	2:B:1130:ARG:HD3	2.20	0.42
1:A:35:PRO:CA	1:A:390:LEU:HD13	2.49	0.42
1:A:252:PHE:HA	1:A:314:TYR:HA	2.02	0.42
1:A:527:PRO:HB3	1:A:534:THR:HA	2.02	0.42
1:A:581:ILE:HG13	1:A:637:PHE:CE1	2.54	0.42
1:A:587:VAL:HG21	1:A:635:MET:CG	2.49	0.42
1:A:587:VAL:HB	1:A:605:VAL:CG2	2.49	0.42
1:A:683:LYS:HG2	8:H:20:TYR:CZ	2.54	0.42
1:A:840:ASN:OD1	1:A:985:ARG:NH2	2.48	0.42
1:A:936:SER:OG	1:A:938:VAL:HB	2.19	0.42
1:A:1116:GLN:N	1:A:1116:GLN:CD	2.76	0.42
1:A:1313:LEU:HD11	1:A:1317:ILE:HD11	2.01	0.42
2:B:258:VAL:H	2:B:309:LEU:HD11	1.83	0.42
2:B:282:HIS:CE1	13:M:105:SER:OG	2.73	0.42
2:B:491:ILE:HG13	2:B:492:ASN:N	2.34	0.42
2:B:692:THR:CG2	2:B:693:PRO:HD2	2.49	0.42
2:B:1138:ALA:HB3	2:B:1140:LYS:HE2	2.01	0.42
3:C:120:LEU:HD11	3:C:125:LYS:CA	2.49	0.42
3:C:175:GLN:HA	3:C:178:THR:OG1	2.19	0.42
5:E:10:SER:CA	5:E:39:LEU:HD11	2.47	0.42
5:E:59:SER:CB	5:E:81:GLU:HA	2.49	0.42
5:E:61:GLN:HB2	5:E:79:TRP:HE3	1.84	0.42
7:G:28:ILE:CB	7:G:31:LYS:HA	2.37	0.42
7:G:56:ASN:OD1	7:G:59:GLN:HB3	2.19	0.42
10:J:7:CYS:CB	10:J:49:MET:HE3	2.48	0.42
14:N:52:GLN:HB3	14:N:54:TRP:NE1	2.32	0.42
15:O:207:SER:O	15:O:213:VAL:HB	2.19	0.42
15:O:230:HIS:CB	15:O:280:ARG:HH22	2.31	0.42
15:O:512:LEU:C	15:O:513:THR:HG22	2.44	0.42
15:O:647:GLU:C	15:O:649:ILE:H	2.26	0.42
16:P:101:LYS:O	16:P:105:LEU:HB2	2.20	0.42
16:P:294:HIS:CE1	20:T:49:DC:H41	2.37	0.42
16:P:354:LYS:HD3	16:P:365:ASP:OD2	2.19	0.42
16:P:505:ILE:CG2	16:P:506:LYS:N	2.82	0.42
17:Q:197:PRO:C	17:Q:199:LYS:H	2.26	0.42
17:Q:217:THR:O	17:Q:221:HIS:HD2	2.02	0.42
17:Q:248:LYS:HZ2	17:Q:248:LYS:CA	2.33	0.42
17:Q:283:ARG:CA	17:Q:302:ARG:CA	2.83	0.42
1:A:594:THR:HB	2:B:1074:MET:HB3	2.01	0.42
1:A:665:PRO:C	1:A:666:VAL:CG2	2.71	0.42
1:A:671:GLN:NE2	1:A:934:LYS:HD3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:830:MET:HE1	2:B:963:PHE:CB	2.47	0.42
1:A:989:GLY:HA3	2:B:709:PHE:HE1	1.84	0.42
1:A:1097:TYR:CE1	1:A:1101:THR:CG2	3.03	0.42
1:A:1440:ASN:OD1	1:A:1442:VAL:N	2.52	0.42
2:B:169:ARG:HD3	2:B:169:ARG:HA	1.90	0.42
2:B:289:PHE:CD1	2:B:306:LEU:HD23	2.34	0.42
2:B:328:GLN:O	2:B:332:ASP:HB3	2.20	0.42
2:B:478:LEU:HD23	2:B:478:LEU:HA	1.82	0.42
2:B:731:VAL:HG23	10:J:63:TYR:CE2	2.55	0.42
2:B:854:GLU:CD	2:B:876:SER:H	2.27	0.42
2:B:1142:LEU:O	2:B:1142:LEU:HG	2.20	0.42
3:C:64:ALA:HB2	3:C:298:PHE:CE2	2.54	0.42
3:C:211:GLY:CA	3:C:219:PHE:CD1	3.01	0.42
4:D:92:ILE:HG12	7:G:152:ALA:HB2	2.01	0.42
15:O:393:VAL:O	15:O:394:VAL:CG2	2.53	0.42
15:O:420:GLU:H	15:O:442:LEU:HD11	1.85	0.42
15:O:438:TRP:NE1	15:O:489:PHE:CB	2.73	0.42
15:O:442:LEU:CD1	15:O:442:LEU:C	2.86	0.42
15:O:627:GLY:HA2	15:O:630:LEU:CG	2.49	0.42
15:O:713:ILE:O	15:O:714:PHE:C	2.62	0.42
16:P:208:PRO:HB2	16:P:213:SER:N	2.34	0.42
16:P:239:PHE:O	16:P:243:PHE:CB	2.67	0.42
16:P:258:MET:HA	16:P:262:LEU:CB	2.39	0.42
17:Q:280:SER:HG	17:Q:301:SER:N	2.14	0.42
17:Q:282:SER:C	17:Q:302:ARG:HB3	2.45	0.42
19:S:3:DA:C6	19:S:4:DG:C6	3.08	0.42
1:A:55:GLY:O	1:A:62:CYS:HA	2.20	0.42
1:A:507:TYR:O	1:A:578:TYR:HA	2.19	0.42
1:A:520:ARG:HA	1:A:561:LEU:HD12	2.01	0.42
1:A:709:ARG:C	1:A:711:LYS:H	2.28	0.42
1:A:1045:LEU:HD23	1:A:1045:LEU:C	2.45	0.42
1:A:1092:GLU:O	1:A:1093:SER:C	2.62	0.42
1:A:1258:ILE:HD13	1:A:1258:ILE:HA	1.88	0.42
1:A:1302:TYR:CD1	1:A:1302:TYR:C	2.97	0.42
1:A:1474:LEU:HD21	1:A:1476:LEU:HD21	2.01	0.42
2:B:43:GLN:N	2:B:44:PRO:CD	2.83	0.42
2:B:109:SER:O	2:B:119:ARG:HG2	2.19	0.42
2:B:164:MET:HB2	2:B:194:PHE:CE1	2.53	0.42
2:B:423:ASN:HB3	2:B:453:VAL:HG21	2.01	0.42
2:B:495:ARG:CZ	2:B:499:HIS:HE1	2.32	0.42
2:B:815:ARG:HB3	2:B:816:ASN:H	1.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1119:ARG:HB2	2:B:1122:SER:HB2	2.01	0.42
3:C:59:ILE:HG12	3:C:60:ASP:N	2.34	0.42
3:C:284:GLU:O	3:C:288:LYS:HE3	2.19	0.42
4:D:44:ILE:CG1	4:D:89:LEU:HD23	2.49	0.42
5:E:116:ILE:HD11	5:E:120:ALA:HB1	2.02	0.42
6:F:79:ARG:HD2	6:F:146:TRP:CE2	2.54	0.42
8:H:4:THR:HA	8:H:60:ALA:HA	2.02	0.42
14:N:144:LYS:O	14:N:145:ILE:C	2.62	0.42
15:O:347:LEU:CD1	15:O:390:GLN:NE2	2.78	0.42
15:O:363:ILE:HG22	15:O:374:VAL:CG1	2.40	0.42
15:O:405:TYR:CD1	15:O:405:TYR:C	2.98	0.42
17:Q:295:PRO:HA	17:Q:296:PRO:HD2	1.87	0.42
17:Q:356:PRO:CA	17:Q:359:MET:HB2	2.49	0.42
17:Q:381:ARG:N	17:Q:384:VAL:HG22	2.33	0.42
1:A:475:ARG:HA	2:B:1069:ILE:O	2.19	0.42
1:A:677:GLY:CA	1:A:817:PHE:CE1	3.02	0.42
1:A:882:ILE:CG2	1:A:889:SER:HA	2.50	0.42
1:A:1079:LYS:HE2	1:A:1080:TYR:CZ	2.54	0.42
1:A:1255:CYS:SG	1:A:1519:LEU:HD22	2.60	0.42
1:A:1316:VAL:O	1:A:1320:GLN:N	2.50	0.42
1:A:1328:ALA:O	1:A:1332:GLU:HG2	2.20	0.42
2:B:204:ARG:CZ	2:B:483:GLY:O	2.68	0.42
2:B:242:ASP:O	2:B:243:GLN:HB2	2.19	0.42
2:B:1150:LYS:O	2:B:1161:ASP:HA	2.20	0.42
3:C:54:PHE:O	3:C:300:PHE:HB2	2.20	0.42
3:C:82:TYR:CD2	3:C:126:PHE:HZ	2.38	0.42
3:C:216:HIS:HB2	12:L:70:ARG:NH2	2.34	0.42
4:D:36:VAL:O	4:D:40:LEU:HG	2.18	0.42
4:D:89:LEU:HD12	4:D:92:ILE:HD12	2.00	0.42
4:D:92:ILE:HD11	7:G:152:ALA:HB2	2.02	0.42
5:E:90:VAL:HB	5:E:119:SER:CB	2.49	0.42
6:F:116:ASP:O	6:F:120:ILE:HG13	2.19	0.42
8:H:25:ARG:NH1	8:H:27:GLU:OE2	2.53	0.42
8:H:90:ALA:CB	8:H:96:VAL:HG21	2.50	0.42
11:K:76:LEU:HG	11:K:80:ILE:CD1	2.49	0.42
13:M:49:ASP:HB3	13:M:51:PHE:CE1	2.55	0.42
14:N:53:VAL:C	14:N:54:TRP:HD1	2.28	0.42
15:O:216:ILE:O	15:O:234:THR:N	2.53	0.42
15:O:274:ILE:HD12	15:O:284:VAL:CG1	2.50	0.42
15:O:313:GLN:CB	15:O:315:PHE:CD1	2.85	0.42
15:O:319:ASP:HA	15:O:324:TRP:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:421:ILE:HG12	15:O:441:ASP:HB3	2.01	0.42
15:O:703:PHE:CD1	15:O:703:PHE:C	2.96	0.42
15:O:747:LEU:HD12	15:O:748:GLU:CA	2.46	0.42
16:P:104:PHE:CG	16:P:211:TYR:CG	3.04	0.42
16:P:237:ILE:HG21	16:P:239:PHE:HB2	2.01	0.42
16:P:263:PRO:HG2	16:P:266:PHE:H	1.85	0.42
16:P:380:TRP:CD2	16:P:380:TRP:O	2.73	0.42
17:Q:143:THR:O	17:Q:144:VAL:CB	2.67	0.42
17:Q:208:TYR:HD1	17:Q:211:ARG:HD3	1.77	0.42
19:S:24:DG:N2	20:T:32:DC:C2	2.88	0.42
1:A:58:LEU:C	1:A:60:ASN:H	2.27	0.42
1:A:76:GLN:NE2	2:B:1183:LYS:HB2	2.33	0.42
1:A:396:ILE:CD1	1:A:430:ILE:CG2	2.95	0.42
1:A:683:LYS:HD2	8:H:20:TYR:CZ	2.54	0.42
1:A:1089:LEU:C	1:A:1089:LEU:CD1	2.93	0.42
1:A:1154:LEU:C	1:A:1157:SER:H	2.28	0.42
1:A:1528:ALA:C	1:A:1529:MET:HE2	2.45	0.42
1:A:1559:ARG:HH22	5:E:200:ARG:HH12	1.64	0.42
2:B:166:GLN:OE1	2:B:166:GLN:N	2.53	0.42
2:B:194:PHE:HD2	2:B:465:LEU:CD2	2.32	0.42
2:B:328:GLN:O	2:B:332:ASP:HB2	2.20	0.42
2:B:430:MET:HB3	2:B:430:MET:HE2	1.80	0.42
2:B:525:TRP:O	2:B:669:GLN:NE2	2.45	0.42
2:B:565:LEU:HD13	2:B:593:ILE:HD13	2.02	0.42
2:B:699:ILE:HG22	2:B:703:LEU:HD11	2.02	0.42
2:B:713:PRO:HA	2:B:716:MET:HE2	2.02	0.42
2:B:1025:ASP:OD1	3:C:277:ARG:NH1	2.53	0.42
2:B:1105:ARG:HH11	2:B:1167:PHE:HB2	1.84	0.42
3:C:89:THR:HG22	12:L:60:ARG:HB3	2.02	0.42
3:C:91:VAL:HG21	10:J:61:LEU:HD23	2.02	0.42
3:C:152:ASP:OD1	3:C:155:GLU:CB	2.67	0.42
3:C:172:GLN:O	3:C:175:GLN:NE2	2.53	0.42
3:C:234:ASN:HD22	3:C:290:LYS:HD2	1.84	0.42
5:E:37:LEU:CD1	5:E:41:ASP:HB3	2.49	0.42
5:E:78:LEU:HA	5:E:107:THR:O	2.19	0.42
8:H:5:LEU:HD21	8:H:61:SER:HB3	2.00	0.42
11:K:49:LEU:HD11	11:K:54:THR:CG2	2.50	0.42
13:M:27:PHE:C	14:N:106:ASN:HD21	2.27	0.42
13:M:80:LEU:HD22	14:N:38:PHE:CZ	2.54	0.42
14:N:142:THR:HG22	14:N:143:ALA:N	2.35	0.42
15:O:54:UNK:HA	15:O:554:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:264:ILE:HD13	15:O:302:VAL:CG1	2.49	0.42
15:O:315:PHE:CA	15:O:328:ARG:HA	2.46	0.42
15:O:317:ILE:HD12	15:O:317:ILE:N	2.35	0.42
15:O:506:THR:HG22	15:O:540:LYS:HG2	2.02	0.42
15:O:593:VAL:HG11	16:P:320:PHE:HB3	2.01	0.42
16:P:336:GLU:O	16:P:338:LEU:N	2.52	0.42
16:P:380:TRP:O	16:P:380:TRP:CG	2.71	0.42
16:P:417:PHE:O	16:P:419:LEU:HG	2.19	0.42
17:Q:133:LYS:HG3	17:Q:286:GLN:HG2	1.93	0.42
17:Q:355:THR:O	17:Q:359:MET:CB	2.65	0.42
1:A:35:PRO:N	1:A:390:LEU:HD13	2.35	0.42
1:A:335:LEU:HD23	1:A:338:VAL:HB	2.01	0.42
1:A:1154:LEU:HD12	1:A:1157:SER:CB	2.49	0.42
1:A:1320:GLN:O	1:A:1324:LEU:HG	2.20	0.42
2:B:614:GLU:CD	2:B:616:LYS:HE3	2.45	0.42
2:B:733:LEU:O	2:B:904:LYS:NZ	2.52	0.42
2:B:950:ASN:OD1	2:B:952:HIS:N	2.44	0.42
2:B:1151:ILE:HG23	2:B:1159:TRP:HB3	1.99	0.42
3:C:111:ASP:OD1	3:C:111:ASP:O	2.37	0.42
3:C:218:LYS:HZ3	12:L:70:ARG:HG3	1.84	0.42
5:E:15:ALA:O	5:E:19:VAL:HG23	2.20	0.42
5:E:119:SER:O	5:E:122:LYS:HB2	2.20	0.42
5:E:124:VAL:N	5:E:125:PRO:HD2	2.35	0.42
7:G:40:ARG:HD3	7:G:123:TYR:CZ	2.55	0.42
8:H:38:LEU:HD11	8:H:123:MET:SD	2.60	0.42
12:L:34:CYS:SG	12:L:36:SER:CB	3.08	0.42
13:M:33:PRO:CD	13:M:36:THR:HB	2.48	0.42
13:M:41:TYR:CZ	14:N:24:SER:HA	2.54	0.42
13:M:80:LEU:HD23	13:M:89:GLN:CD	2.45	0.42
15:O:222:GLN:HE21	15:O:228:ASN:CB	2.32	0.42
15:O:241:PRO:O	15:O:265:THR:HB	2.20	0.42
15:O:266:GLU:O	15:O:300:LEU:HD11	2.13	0.42
15:O:414:ILE:CB	15:O:425:GLY:C	2.87	0.42
15:O:433:VAL:HG11	17:Q:145:SER:OG	2.20	0.42
15:O:434:ARG:N	17:Q:144:VAL:CB	2.79	0.42
15:O:488:LEU:HD23	15:O:489:PHE:N	2.34	0.42
15:O:578:PHE:CZ	16:P:312:LEU:CD1	2.85	0.42
15:O:734:LYS:NZ	15:O:741:ILE:CD1	2.83	0.42
16:P:227:TYR:CE2	16:P:304:LEU:CG	3.00	0.42
16:P:235:GLY:N	16:P:289:ARG:HA	2.35	0.42
16:P:256:LEU:HA	16:P:259:GLN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:284:LEU:CG	16:P:302:ALA:CB	2.95	0.42
16:P:330:TRP:CZ3	16:P:334:LEU:HD12	2.54	0.42
17:Q:175:ILE:CB	17:Q:176:PRO:HD3	2.46	0.42
17:Q:349:ILE:C	17:Q:349:ILE:HD12	2.45	0.42
17:Q:353:VAL:HG23	17:Q:358:PHE:CZ	2.55	0.42
1:A:102:CYS:HB3	1:A:107:HIS:O	2.20	0.42
1:A:189:VAL:O	1:A:193:ILE:HG13	2.20	0.42
1:A:406:LEU:HD22	1:A:416:ARG:CD	2.47	0.42
1:A:410:LYS:O	1:A:413:LEU:CG	2.62	0.42
1:A:717:PRO:CD	1:A:726:TRP:CZ2	3.03	0.42
1:A:1217:LEU:HD21	1:A:1572:ARG:NH1	2.35	0.42
1:A:1275:THR:HG23	9:I:46:LYS:HB3	2.02	0.42
1:A:1478:ALA:C	1:A:1480:THR:N	2.78	0.42
1:A:1623:THR:HG22	1:A:1627:LEU:HD11	2.01	0.42
1:A:1659:LYS:N	7:G:104:LEU:HD12	2.34	0.42
2:B:361:HIS:CE1	2:B:362:LEU:HG	2.55	0.42
2:B:406:GLY:O	2:B:409:TYR:HB3	2.20	0.42
2:B:774:ALA:HB3	2:B:948:ILE:HG12	2.02	0.42
3:C:136:LEU:HD23	3:C:138:VAL:HG23	2.02	0.42
3:C:148:LYS:HE3	3:C:148:LYS:HB2	1.74	0.42
3:C:152:ASP:OD1	3:C:155:GLU:HB2	2.20	0.42
3:C:293:ARG:NH1	3:C:293:ARG:HG3	2.34	0.42
4:D:92:ILE:HD11	7:G:152:ALA:CB	2.50	0.42
5:E:55:ARG:NE	5:E:113:GLN:HE21	2.17	0.42
7:G:162:ILE:HD12	7:G:217:TRP:CZ3	2.44	0.42
9:I:11:LEU:HD11	13:M:31:ARG:HG3	2.02	0.42
15:O:214:LEU:HD11	15:O:263:ILE:HG21	2.02	0.42
15:O:270:GLN:HE22	15:O:289:SER:C	2.28	0.42
15:O:276:SER:CB	15:O:284:VAL:HG22	2.50	0.42
15:O:364:GLU:OE2	15:O:365:TRP:CZ3	2.73	0.42
15:O:366:PHE:HB2	15:O:373:LEU:HD11	1.99	0.42
15:O:371:LYS:HD3	15:O:432:PRO:HG3	1.93	0.42
15:O:703:PHE:CE1	16:P:254:LEU:HD23	2.54	0.42
16:P:222:PHE:CE1	17:Q:206:ARG:NH2	2.88	0.42
16:P:496:GLU:C	16:P:499:LYS:HB2	2.44	0.42
1:A:215:GLU:HA	1:A:218:LYS:HE3	2.02	0.41
1:A:334:VAL:HG13	1:A:335:LEU:N	2.34	0.41
1:A:463:LYS:HB3	1:A:464:GLU:H	1.46	0.41
1:A:657:TYR:OH	1:A:795:HIS:CA	2.64	0.41
1:A:834:ARG:NH1	2:B:1007:TYR:CE2	2.88	0.41
1:A:1031:HIS:HD1	1:A:1032:VAL:C	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1266:VAL:O	1:A:1297:PHE:CD2	2.72	0.41
1:A:1655:ASP:HB2	6:F:137:TYR:HE2	1.85	0.41
2:B:51:ALA:HB1	2:B:60:LEU:HD13	2.01	0.41
2:B:561:ILE:O	2:B:565:LEU:HG	2.20	0.41
3:C:125:LYS:HE2	3:C:125:LYS:HB2	1.91	0.41
3:C:172:GLN:O	3:C:175:GLN:CD	2.63	0.41
3:C:244:ALA:CB	3:C:265:ALA:HB2	2.43	0.41
4:D:18:THR:C	7:G:65:HIS:HD2	2.28	0.41
5:E:12:LEU:HD21	5:E:58:MET:CE	2.47	0.41
5:E:86:PRO:HA	5:E:113:GLN:CB	2.50	0.41
6:F:82:THR:HG23	6:F:136:ARG:HH12	1.83	0.41
7:G:85:GLU:HB2	7:G:123:TYR:HE1	1.85	0.41
7:G:111:THR:HB	7:G:112:PRO:CD	2.50	0.41
8:H:48:PRO:HG2	8:H:146:ARG:HH22	1.85	0.41
8:H:110:ASP:O	8:H:128:ASN:HA	2.18	0.41
11:K:67:GLU:O	11:K:68:GLU:CD	2.62	0.41
14:N:111:VAL:O	14:N:120:LYS:HB2	2.19	0.41
15:O:323:ASN:ND2	17:Q:157:MET:HB2	2.35	0.41
15:O:353:ASP:OD2	17:Q:28:SER:HB2	2.16	0.41
15:O:475:ARG:HA	15:O:498:LEU:HA	2.02	0.41
15:O:529:GLU:HB2	15:O:531:PHE:CE2	2.53	0.41
16:P:181:TYR:CD1	16:P:181:TYR:C	2.98	0.41
16:P:203:TRP:O	16:P:206:GLN:HB2	2.20	0.41
16:P:282:ARG:CG	16:P:282:ARG:NH1	2.83	0.41
16:P:322:ARG:C	16:P:324:ARG:N	2.76	0.41
16:P:366:TYR:O	16:P:369:TRP:HB2	2.19	0.41
16:P:405:ASP:O	16:P:407:LYS:N	2.53	0.41
16:P:419:LEU:CD2	17:Q:237:ALA:HB1	2.04	0.41
17:Q:133:LYS:CG	17:Q:286:GLN:HG2	2.46	0.41
17:Q:354:LEU:HD11	17:Q:359:MET:O	2.19	0.41
17:Q:376:ALA:HB2	17:Q:407:HIS:ND1	2.26	0.41
1:A:90:PHE:CD1	1:A:1627:LEU:HD21	2.55	0.41
1:A:118:TYR:OH	1:A:226:LYS:CG	2.65	0.41
1:A:1308:VAL:CG1	1:A:1498:ILE:HG21	2.50	0.41
2:B:215:MET:HE1	2:B:394:PRO:HB3	2.02	0.41
2:B:332:ASP:HB2	2:B:346:ASP:CG	2.44	0.41
2:B:639:GLY:HA3	2:B:641:TYR:CZ	2.54	0.41
2:B:699:ILE:H	2:B:699:ILE:HG13	1.69	0.41
2:B:738:ASP:HB2	2:B:741:LEU:HG	2.02	0.41
3:C:84:TYR:HB3	12:L:64:LEU:CD1	2.50	0.41
3:C:237:GLN:OE1	3:C:288:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:246:ARG:HG3	3:C:246:ARG:NH1	2.35	0.41
9:I:3:VAL:HB	9:I:8:ILE:CG1	2.48	0.41
11:K:53:ALA:O	11:K:61:ALA:HA	2.20	0.41
11:K:88:PHE:HB3	11:K:106:GLN:NE2	2.35	0.41
15:O:339:ARG:CG	15:O:340:LYS:H	2.32	0.41
15:O:356:GLU:CB	17:Q:24:ILE:HD11	2.47	0.41
15:O:381:ILE:HG22	15:O:382:GLU:O	2.20	0.41
15:O:454:GLN:H	15:O:465:VAL:CG2	2.32	0.41
15:O:653:SER:CB	15:O:747:LEU:O	2.69	0.41
15:O:700:LEU:CD1	15:O:711:LEU:HA	2.37	0.41
15:O:734:LYS:O	15:O:738:LYS:N	2.45	0.41
15:O:779:ASP:C	16:P:199:LEU:CD2	2.83	0.41
16:P:95:LEU:O	16:P:96:ILE:CB	2.69	0.41
16:P:198:ILE:HG21	16:P:200:PRO:HB3	0.93	0.41
16:P:198:ILE:HG22	16:P:203:TRP:CD1	2.54	0.41
16:P:342:THR:C	16:P:343:THR:CG2	2.92	0.41
16:P:354:LYS:HD3	16:P:362:THR:HB	2.01	0.41
16:P:378:LEU:HD22	17:Q:234:LYS:CD	2.46	0.41
16:P:498:LEU:O	16:P:501:CYS:HB2	2.21	0.41
17:Q:365:TRP:HB3	17:Q:418:CYS:HB2	2.02	0.41
1:A:199:ASP:C	1:A:201:ARG:N	2.77	0.41
1:A:487:ASP:OD1	2:B:781:TYR:CZ	2.73	0.41
1:A:503:VAL:O	1:A:580:HIS:CE1	2.73	0.41
1:A:581:ILE:HD12	1:A:637:PHE:CD1	2.55	0.41
1:A:636:HIS:HB3	2:B:1091:ARG:CZ	2.50	0.41
1:A:657:TYR:CD2	1:A:798:HIS:CG	3.08	0.41
1:A:958:PRO:O	1:A:965:THR:HG22	2.20	0.41
1:A:1114:TYR:HB2	1:A:1115:LYS:H	1.45	0.41
2:B:101:GLN:O	2:B:140:LYS:N	2.53	0.41
2:B:334:PHE:O	2:B:337:VAL:HG12	2.20	0.41
2:B:654:ARG:HH21	2:B:659:ASP:CG	2.27	0.41
2:B:742:TYR:CD1	2:B:803:MET:HG3	2.51	0.41
2:B:940:GLU:OE2	3:C:293:ARG:NE	2.46	0.41
7:G:232:THR:OG1	7:G:251:SER:O	2.18	0.41
15:O:183:ASP:HB3	15:O:247:ILE:CD1	2.42	0.41
15:O:392:GLU:O	15:O:392:GLU:CG	2.68	0.41
15:O:647:GLU:O	15:O:649:ILE:N	2.49	0.41
15:O:655:SER:HB2	16:P:244:ASN:CA	2.41	0.41
15:O:705:HIS:CD2	15:O:709:PRO:HD3	2.55	0.41
15:O:713:ILE:O	15:O:715:TYR:N	2.53	0.41
16:P:132:VAL:O	16:P:135:ILE:HG13	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:227:TYR:CZ	16:P:301:HIS:HB3	2.50	0.41
17:Q:361:ASP:O	17:Q:362:ALA:HB3	2.19	0.41
1:A:737:LEU:HD12	1:A:737:LEU:HA	1.86	0.41
2:B:211:ARG:HH22	2:B:646:HIS:HB2	1.86	0.41
2:B:259:THR:CB	2:B:270:LEU:HD11	2.49	0.41
2:B:344:GLN:HB3	2:B:348:GLU:HB2	2.03	0.41
2:B:380:LYS:HE3	2:B:637:TYR:HB3	2.03	0.41
2:B:504:HIS:CG	2:B:506:GLY:H	2.39	0.41
2:B:726:MET:CE	2:B:1035:ARG:HB3	2.51	0.41
2:B:832:TRP:HZ3	2:B:834:LYS:HA	1.70	0.41
3:C:174:ARG:O	3:C:177:THR:N	2.54	0.41
3:C:311:GLU:CG	3:C:312:GLU:N	2.84	0.41
5:E:37:LEU:HD12	5:E:38:PRO:HD2	2.02	0.41
5:E:78:LEU:HD23	5:E:79:TRP:C	2.46	0.41
5:E:81:GLU:HB3	5:E:110:PHE:HA	2.02	0.41
7:G:87:LEU:HA	7:G:87:LEU:HD12	1.85	0.41
7:G:163:PRO:HG2	7:G:166:TRP:HE1	1.85	0.41
8:H:10:PHE:CD2	8:H:57:VAL:HG21	2.55	0.41
9:I:11:LEU:HD11	13:M:31:ARG:CG	2.49	0.41
15:O:233:VAL:HG12	15:O:234:THR:O	2.20	0.41
15:O:347:LEU:C	17:Q:153:ASN:OD1	2.63	0.41
15:O:352:PHE:C	15:O:354:PRO:N	2.70	0.41
15:O:466:ALA:O	15:O:467:PHE:HD1	2.03	0.41
15:O:468:VAL:HG23	15:O:468:VAL:O	2.20	0.41
15:O:669:PHE:CE1	15:O:738:LYS:CD	3.04	0.41
15:O:706:GLU:CG	16:P:438:PHE:HB3	2.47	0.41
15:O:707:ASP:O	15:O:709:PRO:HD3	2.18	0.41
16:P:123:MET:C	16:P:125:PHE:CD1	2.98	0.41
16:P:171:HIS:HE1	16:P:243:PHE:CZ	2.23	0.41
16:P:469:PRO:CG	16:P:470:PRO:HD2	2.51	0.41
19:S:5:DT:C2	19:S:6:DG:C5	3.09	0.41
1:A:241:PRO:CB	1:A:253:GLU:CG	2.99	0.41
1:A:520:ARG:NE	1:A:558:ALA:O	2.45	0.41
1:A:593:PRO:O	1:A:595:LEU:N	2.52	0.41
1:A:594:THR:HG21	2:B:1075:GLU:N	2.35	0.41
1:A:717:PRO:HA	1:A:726:TRP:CD2	2.56	0.41
1:A:749:LEU:N	1:A:771:PHE:HB2	2.34	0.41
1:A:1063:MET:HG3	1:A:1064:THR:HG23	2.01	0.41
1:A:1112:PRO:HB3	1:A:1114:TYR:HH	1.70	0.41
1:A:1133:LEU:CD1	1:A:1172:LEU:HA	2.49	0.41
1:A:1195:GLU:HB3	1:A:1196:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1241:PRO:HG3	1:A:1540:GLY:O	2.20	0.41
2:B:259:THR:HB	2:B:270:LEU:CD1	2.49	0.41
2:B:428:VAL:O	2:B:432:ILE:HG12	2.20	0.41
2:B:493:PHE:HD2	2:B:762:MET:SD	2.44	0.41
2:B:706:PHE:CE1	2:B:981:SER:HA	2.55	0.41
2:B:807:GLU:O	2:B:902:SER:HA	2.20	0.41
2:B:920:ARG:HH21	2:B:965:GLU:CG	2.34	0.41
2:B:1084:THR:HG23	2:B:1087:LEU:HB3	2.01	0.41
2:B:1116:SER:N	2:B:1125:THR:O	2.39	0.41
3:C:106:LEU:HB2	3:C:108:VAL:HG23	2.02	0.41
3:C:115:TRP:CD2	3:C:210:LEU:HD23	2.55	0.41
3:C:237:GLN:OE1	3:C:288:LYS:CB	2.69	0.41
5:E:115:ASN:OD1	5:E:115:ASN:C	2.63	0.41
6:F:130:ILE:HG22	6:F:132:LEU:H	1.84	0.41
7:G:48:SER:O	7:G:64:GLN:OE1	2.38	0.41
8:H:116:TYR:OH	8:H:134:ASN:ND2	2.53	0.41
14:N:109:LEU:CD2	14:N:122:ALA:HB2	2.27	0.41
15:O:291:PRO:HA	15:O:339:ARG:HH21	1.86	0.41
15:O:473:HIS:N	15:O:504:THR:HG21	2.35	0.41
15:O:725:VAL:HG21	16:P:449:GLN:HG3	2.03	0.41
16:P:237:ILE:HG22	16:P:239:PHE:N	2.35	0.41
1:A:94:LEU:C	1:A:94:LEU:HD12	2.46	0.41
1:A:360:LEU:HD12	1:A:360:LEU:HA	1.76	0.41
1:A:588:LEU:CD2	1:A:600:MET:CE	2.98	0.41
1:A:646:GLU:CD	2:B:1086:PHE:HB2	2.45	0.41
2:B:49:PHE:HD1	2:B:167:SER:HB2	1.85	0.41
2:B:521:LEU:HD23	2:B:521:LEU:HA	1.79	0.41
2:B:555:GLN:HG3	2:B:644:GLY:C	2.44	0.41
2:B:731:VAL:HG12	10:J:60:PHE:CE1	2.56	0.41
2:B:894:LYS:O	2:B:895:PHE:C	2.63	0.41
5:E:28:TYR:HD1	5:E:63:ASN:CA	2.33	0.41
13:M:11:GLU:HB2	13:M:86:LYS:HE2	2.02	0.41
13:M:79:GLY:HA2	13:M:90:LEU:HD23	2.01	0.41
14:N:45:LYS:HG2	14:N:49:LYS:CG	2.50	0.41
15:O:392:GLU:O	15:O:393:VAL:C	2.62	0.41
15:O:499:GLU:CG	15:O:500:ILE:N	2.69	0.41
16:P:204:ARG:C	16:P:208:PRO:HG3	2.41	0.41
16:P:222:PHE:CE1	17:Q:206:ARG:NH1	2.88	0.41
16:P:258:MET:CA	16:P:262:LEU:HD22	2.50	0.41
16:P:291:ASP:OD1	16:P:291:ASP:N	2.52	0.41
16:P:337:SER:OG	16:P:448:LYS:CE	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:4:VAL:HA	17:Q:5:PRO:HD3	1.89	0.41
17:Q:393:ILE:HD11	17:Q:397:ARG:O	2.04	0.41
1:A:57:PHE:CE2	1:A:58:LEU:HG	2.55	0.41
1:A:257:ASN:HB3	1:A:260:GLN:CG	2.49	0.41
1:A:495:ILE:HD12	1:A:615:ARG:O	2.21	0.41
1:A:818:THR:HG23	2:B:780:GLY:HA3	2.03	0.41
1:A:1267:ILE:HD12	1:A:1493:CYS:HB3	2.03	0.41
1:A:1486:VAL:HG11	9:I:50:THR:O	2.20	0.41
2:B:322:ASN:CG	13:M:105:SER:HA	2.45	0.41
2:B:372:ARG:HH22	2:B:574:SER:CB	2.33	0.41
2:B:442:ASP:CG	2:B:444:ARG:HE	2.28	0.41
2:B:1000:LEU:O	2:B:1003:ALA:HB3	2.20	0.41
2:B:1088:LEU:CD1	2:B:1092:LEU:HD12	2.41	0.41
2:B:1128:CYS:CB	2:B:1131:CYS:SG	3.09	0.41
5:E:79:TRP:HB2	5:E:105:PHE:CG	2.56	0.41
8:H:63:LEU:HD21	8:H:141:TYR:CD2	2.56	0.41
10:J:16:ASP:OD1	10:J:16:ASP:N	2.53	0.41
13:M:24:GLY:O	14:N:108:THR:HB	2.21	0.41
13:M:57:ASN:OD1	13:M:60:LEU:N	2.44	0.41
13:M:60:LEU:HA	13:M:102:SER:HA	2.02	0.41
14:N:45:LYS:N	14:N:49:LYS:CG	2.84	0.41
15:O:409:ASP:C	15:O:411:LYS:N	2.76	0.41
15:O:416:LEU:HD12	15:O:417:THR:H	1.84	0.41
15:O:669:PHE:O	15:O:669:PHE:HD1	2.00	0.41
15:O:689:GLN:O	15:O:690:ASP:HB2	2.20	0.41
15:O:768:TYR:CE2	16:P:145:ASN:CG	2.56	0.41
16:P:104:PHE:HA	16:P:211:TYR:CD1	2.55	0.41
16:P:167:LEU:HD21	16:P:230:ILE:HG23	2.03	0.41
16:P:212:VAL:N	16:P:215:LEU:HD21	2.33	0.41
16:P:378:LEU:CD1	17:Q:234:LYS:C	2.58	0.41
16:P:497:GLN:O	16:P:500:ASP:N	2.54	0.41
1:A:50:TYR:CE2	1:A:365:THR:HG21	2.56	0.41
1:A:348:LYS:HE2	1:A:348:LYS:HB3	1.84	0.41
1:A:532:GLY:C	1:A:580:HIS:CD2	2.99	0.41
1:A:751:SER:HB3	1:A:769:VAL:HB	2.03	0.41
1:A:790:LYS:O	1:A:791:TYR:C	2.63	0.41
1:A:1322:ILE:HG23	1:A:1323:HIS:N	2.36	0.41
1:A:1483:LEU:HD11	1:A:1485:MET:HE2	2.03	0.41
1:A:1501:ILE:O	1:A:1502:PRO:C	2.63	0.41
1:A:1645:LYS:HE3	1:A:1645:LYS:HB3	1.74	0.41
2:B:91:LEU:HD12	2:B:93:ASN:C	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:267:ASN:ND2	2:B:269:TYR:CZ	2.89	0.41
2:B:368:GLN:O	2:B:371:PHE:HB3	2.21	0.41
2:B:470:LEU:HD22	2:B:484:TYR:CZ	2.55	0.41
2:B:577:PHE:O	2:B:577:PHE:CD2	2.74	0.41
2:B:683:ASN:HA	14:N:154:ARG:HH22	1.85	0.41
2:B:913:ILE:HA	2:B:927:CYS:O	2.20	0.41
2:B:919:SER:C	2:B:921:HIS:H	2.28	0.41
5:E:2:ASP:OD1	5:E:3:GLN:N	2.53	0.41
5:E:180:ARG:NH2	5:E:191:LYS:HA	2.36	0.41
6:F:83:PRO:O	6:F:152:ILE:N	2.50	0.41
7:G:138:PHE:CE2	7:G:139:ILE:HG23	2.56	0.41
10:J:68:LYS:HA	12:L:35:SER:OG	2.20	0.41
13:M:68:SER:HA	13:M:71:GLN:HB2	2.02	0.41
15:O:180:ASN:OD1	15:O:180:ASN:C	2.63	0.41
15:O:254:ILE:C	15:O:256:ARG:N	2.78	0.41
15:O:264:ILE:HG12	15:O:302:VAL:HG11	2.03	0.41
15:O:314:GLN:O	15:O:328:ARG:HA	2.20	0.41
15:O:405:TYR:CE2	15:O:414:ILE:CG2	2.93	0.41
15:O:611:ILE:CG1	15:O:731:LEU:HD23	2.51	0.41
16:P:148:PRO:O	16:P:151:GLU:HB3	2.21	0.41
16:P:287:TRP:CZ2	16:P:298:VAL:CG1	3.03	0.41
16:P:321:ASP:OD1	16:P:321:ASP:N	2.50	0.41
16:P:417:PHE:O	16:P:419:LEU:CD2	2.69	0.41
1:A:23:GLU:CD	2:B:1130:ARG:HH11	2.28	0.41
1:A:88:PRO:HG2	1:A:438:ILE:CG2	2.41	0.41
1:A:220:VAL:HG12	1:A:224:HIS:HD2	1.85	0.41
1:A:467:PHE:CZ	1:A:1614:SER:CA	2.74	0.41
1:A:540:ASP:OD1	1:A:540:ASP:C	2.64	0.41
1:A:569:SER:O	4:D:16:LEU:HD11	2.20	0.41
1:A:629:ASP:N	2:B:785:ASP:CB	2.84	0.41
1:A:677:GLY:HA2	1:A:817:PHE:HE1	1.84	0.41
1:A:753:ASN:HB2	1:A:767:ASN:HA	2.03	0.41
1:A:822:THR:HG23	2:B:778:TYR:CE1	2.56	0.41
1:A:1073:TYR:CE1	1:A:1169:LEU:HD22	2.56	0.41
1:A:1095:LEU:O	1:A:1098:SER:HB2	2.19	0.41
1:A:1313:LEU:HG	1:A:1317:ILE:HD12	2.03	0.41
1:A:1463:ASP:OD2	1:A:1468:LYS:N	2.32	0.41
1:A:1551:LYS:HE2	1:A:1551:LYS:HB2	1.82	0.41
2:B:190:ILE:HG13	2:B:191:GLY:N	2.35	0.41
2:B:232:TYR:HD1	2:B:384:LEU:HD21	1.85	0.41
2:B:409:TYR:O	2:B:412:ILE:CG2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:807:GLU:HB3	2:B:903:ILE:CG2	2.51	0.41
2:B:906:ARG:HD2	3:C:93:GLN:HG3	2.02	0.41
2:B:1041:ASN:OD1	2:B:1041:ASN:C	2.63	0.41
2:B:1121:GLY:O	7:G:239:THR:O	2.38	0.41
3:C:57:ILE:HG22	3:C:58:ASN:CG	2.46	0.41
3:C:115:TRP:CH2	3:C:212:ILE:CG2	3.03	0.41
3:C:173:GLY:O	3:C:174:ARG:C	2.63	0.41
3:C:255:VAL:HA	3:C:269:ASP:O	2.21	0.41
3:C:256:ILE:HG23	3:C:266:TYR:O	2.20	0.41
3:C:303:GLU:OE2	10:J:43:ARG:NH1	2.54	0.41
4:D:18:THR:C	7:G:65:HIS:CD2	2.99	0.41
4:D:19:PRO:HG3	4:D:22:ILE:HD11	2.02	0.41
5:E:58:MET:HE2	5:E:82:PHE:HD2	1.83	0.41
5:E:68:SER:O	5:E:72:PHE:N	2.51	0.41
5:E:79:TRP:O	5:E:108:GLY:HA2	2.21	0.41
6:F:73:ALA:HB2	7:G:94:PRO:CG	2.49	0.41
6:F:85:MET:HE2	6:F:93:ILE:CD1	2.50	0.41
8:H:103:LYS:HB3	8:H:115:TYR:CD2	2.56	0.41
9:I:26:SER:O	9:I:38:PRO:HB3	2.15	0.41
9:I:34:LYS:HG3	13:M:59:ARG:CD	2.48	0.41
11:K:88:PHE:CB	11:K:106:GLN:HE21	2.34	0.41
11:K:91:TYR:CD1	11:K:91:TYR:C	2.99	0.41
14:N:56:ILE:CG2	14:N:58:PHE:CE1	3.04	0.41
14:N:58:PHE:HB3	14:N:64:ILE:HD11	2.02	0.41
14:N:70:LEU:HD12	14:N:80:MET:HE3	2.03	0.41
15:O:341:LEU:HD12	15:O:341:LEU:C	2.44	0.41
15:O:438:TRP:CZ2	15:O:490:GLN:O	2.74	0.41
15:O:483:HIS:ND1	15:O:489:PHE:HE1	2.19	0.41
15:O:554:ASN:O	15:O:555:THR:CG2	2.69	0.41
15:O:635:ASN:ND2	15:O:685:TYR:HE1	2.18	0.41
15:O:715:TYR:CD1	15:O:734:LYS:HE3	2.53	0.41
15:O:724:LEU:HG	16:P:446:TYR:HB2	2.02	0.41
15:O:725:VAL:CG2	16:P:449:GLN:CG	2.99	0.41
16:P:96:ILE:HA	16:P:209:ASN:HD22	1.85	0.41
16:P:141:LEU:O	16:P:142:LYS:C	2.63	0.41
16:P:167:LEU:HA	16:P:170:THR:HG21	2.02	0.41
16:P:190:MET:C	16:P:192:TYR:H	2.27	0.41
16:P:274:ILE:HA	16:P:278:GLU:HB3	1.99	0.41
16:P:354:LYS:CG	16:P:362:THR:HB	2.50	0.41
17:Q:155:GLN:CG	17:Q:156:LYS:N	2.84	0.41
17:Q:247:ILE:HG23	17:Q:278:TYR:CE2	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:261:LEU:CD2	17:Q:264:SER:H	2.32	0.41
17:Q:261:LEU:CD2	17:Q:264:SER:N	2.84	0.41
17:Q:355:THR:H	17:Q:359:MET:CB	2.30	0.41
19:S:6:DG:N1	20:T:50:DA:N3	2.68	0.41
1:A:13:SER:OG	2:B:1192:MET:HG3	2.21	0.41
1:A:89:LEU:HD21	1:A:1623:THR:OG1	2.20	0.41
1:A:363:PRO:HB2	2:B:1180:PHE:CZ	2.56	0.41
1:A:380:ASN:HB3	1:A:383:ASN:ND2	2.36	0.41
1:A:413:LEU:C	1:A:415:ASP:N	2.79	0.41
1:A:603:HIS:NE2	1:A:624:TYR:OH	2.40	0.41
1:A:721:LYS:HE2	8:H:93:TYR:O	2.21	0.41
1:A:935:GLY:HA2	1:A:939:ASN:HD22	1.86	0.41
1:A:1457:ILE:HG12	1:A:1458:THR:N	2.36	0.41
2:B:99:VAL:HG22	2:B:141:LEU:CD1	2.51	0.41
2:B:585:CYS:SG	2:B:592:ILE:CD1	3.09	0.41
2:B:656:LEU:C	14:N:148:ILE:HG12	2.45	0.41
2:B:815:ARG:CA	2:B:815:ARG:NE	2.74	0.41
2:B:986:PHE:HA	14:N:157:ARG:NH2	2.35	0.41
5:E:97:VAL:CG1	5:E:132:ILE:CD1	2.98	0.41
7:G:50:ALA:H	7:G:64:GLN:NE2	2.13	0.41
7:G:142:ALA:HA	7:G:217:TRP:HZ2	1.86	0.41
9:I:28:VAL:CA	9:I:37:TYR:H	2.33	0.41
10:J:56:LEU:O	10:J:56:LEU:HG	2.21	0.41
15:O:298:ASP:HB3	17:Q:158:THR:CA	2.30	0.41
15:O:399:TRP:CD1	17:Q:134:PRO:HB2	2.50	0.41
15:O:693:PHE:CZ	16:P:172:LEU:CD2	3.02	0.41
15:O:724:LEU:HD11	16:P:443:GLN:HA	2.02	0.41
15:O:734:LYS:HG3	15:O:734:LYS:O	2.20	0.41
16:P:146:ASP:N	16:P:148:PRO:HD3	2.30	0.41
17:Q:247:ILE:CD1	17:Q:248:LYS:HD2	2.44	0.41
20:T:32:DC:C4	20:T:33:DC:C4	3.09	0.41
1:A:49:LEU:CD2	1:A:386:LEU:HD22	2.40	0.40
1:A:215:GLU:CD	1:A:218:LYS:HZ1	2.16	0.40
1:A:438:ILE:HA	2:B:1184:TYR:HE2	1.86	0.40
1:A:487:ASP:CB	1:A:615:ARG:CG	2.97	0.40
1:A:495:ILE:HD12	1:A:495:ILE:HA	1.92	0.40
1:A:692:TYR:CD1	1:A:731:ILE:HG12	2.53	0.40
1:A:1123:VAL:HG22	1:A:1135:SER:CB	2.51	0.40
2:B:94:LYS:HE3	2:B:96:SER:OG	2.21	0.40
2:B:741:LEU:O	2:B:803:MET:HA	2.21	0.40
2:B:830:ASP:C	2:B:834:LYS:HZ3	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:848:ILE:O	2:B:848:ILE:HG23	2.20	0.40
2:B:1102:SER:O	2:B:1110:ILE:HA	2.21	0.40
2:B:1104:CYS:O	2:B:1108:GLY:N	2.33	0.40
3:C:69:ARG:HD3	11:K:71:THR:OG1	2.20	0.40
5:E:22:MET:HE2	5:E:187:TYR:HD1	1.83	0.40
10:J:24:LEU:HD23	10:J:28:ASP:HB2	2.02	0.40
12:L:47:ARG:NH2	12:L:54:ARG:HD3	2.35	0.40
14:N:27:ASP:C	14:N:29:PHE:N	2.78	0.40
14:N:177:ALA:C	14:N:179:ASP:N	2.78	0.40
15:O:183:ASP:HA	15:O:509:GLU:OE1	2.21	0.40
15:O:251:SER:OG	15:O:253:SER:HB3	2.21	0.40
15:O:351:ILE:O	15:O:352:PHE:CD1	2.74	0.40
15:O:380:MET:HB2	15:O:394:VAL:CG1	2.52	0.40
15:O:535:VAL:CG1	15:O:552:LEU:HB2	2.51	0.40
16:P:369:TRP:CH2	16:P:377:PHE:CD2	3.05	0.40
17:Q:290:TYR:O	17:Q:294:VAL:HG11	2.20	0.40
17:Q:298:GLN:C	17:Q:299:THR:CG2	2.70	0.40
1:A:81:LEU:HD13	1:A:357:MET:C	2.33	0.40
1:A:115:VAL:O	1:A:118:TYR:N	2.53	0.40
1:A:336:GLN:CD	1:A:344:ASN:HD22	2.28	0.40
1:A:423:LEU:O	1:A:427:PHE:HB2	2.21	0.40
1:A:460:LEU:CD2	2:B:1178:ILE:HD13	2.49	0.40
1:A:469:LYS:O	1:A:469:LYS:HG3	2.22	0.40
1:A:967:PRO:HG2	2:B:525:TRP:CD1	2.56	0.40
1:A:1054:ALA:O	1:A:1179:ILE:N	2.35	0.40
1:A:1477:ALA:O	1:A:1478:ALA:C	2.64	0.40
2:B:25:PHE:CE2	10:J:56:LEU:CD1	3.04	0.40
2:B:164:MET:CG	2:B:194:PHE:HE1	2.34	0.40
2:B:532:HIS:CG	2:B:544:HIS:CG	3.09	0.40
2:B:715:ASN:O	2:B:718:GLN:HB3	2.21	0.40
2:B:733:LEU:CD1	2:B:743:ARG:CZ	2.99	0.40
2:B:1022:LEU:HG	2:B:1022:LEU:H	1.69	0.40
3:C:40:PHE:HD2	11:K:134:LYS:CD	2.34	0.40
3:C:55:ASP:HB3	3:C:297:HIS:CE1	2.57	0.40
3:C:188:ASP:HB2	3:C:191:ILE:HD11	2.03	0.40
4:D:16:LEU:HD12	4:D:16:LEU:O	2.21	0.40
5:E:78:LEU:HD11	5:E:109:ILE:HD11	2.03	0.40
5:E:178:ILE:CG2	5:E:214:CYS:CA	2.95	0.40
9:I:20:PRO:CG	9:I:37:TYR:CE2	3.04	0.40
10:J:35:ALA:O	10:J:39:LEU:HG	2.20	0.40
11:K:95:HIS:O	11:K:98:GLU:N	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:57:ASN:HD21	13:M:60:LEU:HB2	1.86	0.40
14:N:81:THR:HA	14:N:85:HIS:O	2.21	0.40
15:O:214:LEU:CB	15:O:236:ILE:CG1	3.00	0.40
15:O:448:THR:OG1	15:O:471:MET:SD	2.79	0.40
15:O:474:LYS:HE3	15:O:498:LEU:HD21	2.02	0.40
15:O:500:ILE:CG2	15:O:501:PRO:CD	2.99	0.40
15:O:534:VAL:HG12	15:O:553:SER:HB2	2.03	0.40
15:O:713:ILE:HG21	15:O:717:LYS:HE2	2.03	0.40
15:O:725:VAL:CB	16:P:449:GLN:HG3	2.44	0.40
16:P:237:ILE:HG22	16:P:239:PHE:HA	2.03	0.40
16:P:497:GLN:HA	16:P:500:ASP:CB	2.51	0.40
1:A:135:LYS:HB3	1:A:188:TYR:OH	2.21	0.40
1:A:314:TYR:CE1	1:A:315:ILE:O	2.74	0.40
1:A:336:GLN:NE2	1:A:344:ASN:CB	2.84	0.40
1:A:514:TYR:CD1	1:A:514:TYR:C	2.99	0.40
1:A:567:ASN:O	1:A:571:HIS:N	2.54	0.40
1:A:735:VAL:HG23	1:A:736:LEU:N	2.37	0.40
1:A:956:ARG:HG2	1:A:979:GLY:O	2.21	0.40
1:A:1033:SER:HB3	1:A:1037:SER:O	2.22	0.40
1:A:1035:ASP:O	1:A:1036:ASN:HB2	2.21	0.40
1:A:1188:ILE:HG22	1:A:1581:HIS:CE1	2.57	0.40
1:A:1298:ASP:O	1:A:1302:TYR:CD2	2.74	0.40
1:A:1458:THR:HG21	1:A:1475:GLU:CB	2.50	0.40
2:B:108:MET:CE	2:B:120:LYS:HG2	2.35	0.40
2:B:184:LYS:CE	2:B:735:HIS:CE1	3.04	0.40
2:B:204:ARG:HG3	2:B:502:MET:HE3	2.02	0.40
2:B:345:SER:N	2:B:348:GLU:OE1	2.40	0.40
2:B:504:HIS:NE2	2:B:506:GLY:C	2.79	0.40
2:B:592:ILE:HG23	2:B:592:ILE:O	2.21	0.40
2:B:627:GLY:O	2:B:640:LEU:HA	2.22	0.40
2:B:975:HIS:CE1	2:B:999:GLN:HG2	2.56	0.40
4:D:92:ILE:HA	7:G:150:HIS:O	2.22	0.40
5:E:64:PRO:HG3	5:E:75:MET:HG2	2.02	0.40
5:E:86:PRO:HA	5:E:114:ASN:N	2.35	0.40
5:E:202:SER:C	5:E:204:THR:H	2.29	0.40
7:G:97:LYS:HZ3	7:G:99:ASP:HB3	1.86	0.40
8:H:12:VAL:HB	8:H:53:ASP:H	1.87	0.40
9:I:8:ILE:CG2	9:I:8:ILE:O	2.69	0.40
12:L:33:GLU:O	12:L:33:GLU:HG3	2.21	0.40
14:N:79:THR:HG22	14:N:88:LYS:HG2	2.03	0.40
15:O:366:PHE:HB2	15:O:373:LEU:CG	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:414:ILE:HD12	15:O:425:GLY:C	2.46	0.40
15:O:663:LEU:CD2	15:O:666:SER:HB3	2.51	0.40
15:O:703:PHE:HZ	16:P:258:MET:SD	2.43	0.40
16:P:119:LEU:CD2	16:P:190:MET:HE1	2.33	0.40
17:Q:134:PRO:O	17:Q:135:GLU:C	2.64	0.40
17:Q:212:HIS:O	17:Q:213:ILE:C	2.64	0.40
1:A:834:ARG:HH11	2:B:1008:HIS:CE1	2.39	0.40
1:A:962:SER:O	1:A:971:PRO:HB3	2.21	0.40
1:A:1556:GLU:HB3	5:E:151:PRO:HD2	2.03	0.40
2:B:14:ALA:O	2:B:978:ALA:HB3	2.22	0.40
2:B:75:ASP:CA	2:B:440:PHE:HZ	2.33	0.40
2:B:296:ASP:O	2:B:298:LYS:N	2.55	0.40
2:B:299:ASP:HB3	2:B:302:LEU:CB	2.49	0.40
2:B:315:LYS:HE2	2:B:315:LYS:HB2	1.89	0.40
2:B:745:GLN:O	10:J:1:MET:HB2	2.21	0.40
2:B:858:ILE:O	2:B:858:ILE:HG22	2.21	0.40
2:B:890:ASP:C	2:B:892:SER:N	2.74	0.40
3:C:118:SER:C	3:C:120:LEU:H	2.30	0.40
3:C:146:ALA:HB1	3:C:151:THR:HG21	0.41	0.40
3:C:152:ASP:OD1	3:C:155:GLU:CA	2.61	0.40
5:E:40:GLU:O	5:E:43:LYS:HB2	2.22	0.40
8:H:43:ASN:OD1	8:H:45:GLU:N	2.55	0.40
9:I:17:LEU:HD13	9:I:37:TYR:CE2	2.42	0.40
9:I:27:ASN:HB2	9:I:37:TYR:N	2.37	0.40
11:K:77:ARG:HD2	11:K:91:TYR:HE2	1.85	0.40
11:K:78:TYR:CZ	11:K:82:LYS:HE3	2.57	0.40
14:N:74:PHE:HB3	14:N:77:SER:C	2.46	0.40
15:O:347:LEU:HB2	17:Q:152:ILE:N	2.36	0.40
15:O:436:ILE:CG1	15:O:436:ILE:O	2.69	0.40
15:O:437:SER:C	15:O:438:TRP:CD1	3.00	0.40
15:O:611:ILE:CG2	15:O:731:LEU:CD2	2.89	0.40
16:P:167:LEU:O	16:P:170:THR:HG23	2.22	0.40
16:P:184:TRP:CE3	16:P:185:ILE:HG12	2.56	0.40
16:P:219:ILE:HD13	17:Q:207:ASN:OD1	2.21	0.40
16:P:503:SER:O	16:P:507:ASN:ND2	2.54	0.40
17:Q:247:ILE:O	17:Q:250:LEU:N	2.50	0.40
17:Q:353:VAL:CG2	17:Q:358:PHE:CE1	3.03	0.40
1:A:5:LYS:HB3	2:B:1100:GLN:HE22	1.87	0.40
1:A:956:ARG:CG	1:A:979:GLY:O	2.70	0.40
1:A:1243:TRP:CD1	1:A:1535:PHE:C	2.99	0.40
2:B:71:LYS:HD2	2:B:421:LEU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:329:TYR:O	2:B:333:LYS:HG2	2.21	0.40
2:B:656:LEU:CB	14:N:148:ILE:CD1	2.99	0.40
2:B:972:GLY:O	2:B:976:GLY:N	2.54	0.40
3:C:120:LEU:HD11	3:C:125:LYS:HA	2.04	0.40
4:D:43:PHE:HE1	7:G:84:TYR:CZ	2.40	0.40
5:E:13:TRP:CD2	5:E:39:LEU:HB2	2.56	0.40
6:F:119:ARG:O	6:F:122:MET:HB2	2.21	0.40
7:G:39:VAL:O	7:G:123:TYR:HA	2.21	0.40
7:G:162:ILE:CD1	7:G:217:TRP:CZ3	3.00	0.40
7:G:242:VAL:C	7:G:243:VAL:HG13	2.47	0.40
8:H:104:PHE:CE2	8:H:136:LYS:CB	2.94	0.40
8:H:111:LEU:HA	8:H:128:ASN:HA	2.04	0.40
9:I:8:ILE:N	9:I:16:LEU:CD1	2.83	0.40
10:J:48:ARG:O	10:J:49:MET:C	2.64	0.40
11:K:127:LEU:C	11:K:127:LEU:HD23	2.47	0.40
12:L:38:LEU:HD12	12:L:39:SER:N	2.37	0.40
15:O:51:UNK:O	15:O:52:UNK:CB	2.69	0.40
15:O:175:ASP:HB3	17:Q:195:LEU:CB	2.47	0.40
15:O:205:TYR:CB	15:O:215:ASN:CB	2.29	0.40
15:O:205:TYR:HB3	15:O:215:ASN:HD22	1.87	0.40
15:O:293:TYR:C	15:O:295:VAL:N	2.77	0.40
15:O:314:GLN:HG3	15:O:329:ILE:HD11	1.92	0.40
15:O:584:ARG:NH2	15:O:588:SER:OG	2.55	0.40
15:O:655:SER:HB2	16:P:244:ASN:OD1	2.17	0.40
15:O:698:LYS:CE	16:P:124:ARG:O	2.68	0.40
15:O:732:LEU:HA	15:O:735:GLU:HG3	1.28	0.40
15:O:764:LEU:CD2	16:P:142:LYS:HA	2.50	0.40
16:P:212:VAL:HG23	16:P:212:VAL:H	1.70	0.40
16:P:248:SER:OG	16:P:249:CYS:N	2.53	0.40
16:P:354:LYS:HG2	16:P:362:THR:HG21	0.58	0.40
16:P:390:THR:HG23	16:P:399:SER:HB3	2.02	0.40
17:Q:153:ASN:O	17:Q:156:LYS:CE	2.68	0.40
17:Q:390:ASN:HB2	17:Q:391:ASP:H	1.68	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1445/1664 (87%)	1333 (92%)	87 (6%)	25 (2%)	7	35
2	B	1172/1203 (97%)	1088 (93%)	65 (6%)	19 (2%)	7	37
3	C	304/335 (91%)	283 (93%)	17 (6%)	4 (1%)	9	41
4	D	55/137 (40%)	51 (93%)	4 (7%)	0	100	100
5	E	213/215 (99%)	204 (96%)	8 (4%)	1 (0%)	24	62
6	F	81/155 (52%)	73 (90%)	7 (9%)	1 (1%)	10	42
7	G	197/326 (60%)	181 (92%)	12 (6%)	4 (2%)	6	32
8	H	129/146 (88%)	122 (95%)	7 (5%)	0	100	100
9	I	63/125 (50%)	51 (81%)	7 (11%)	5 (8%)	1	10
10	J	67/70 (96%)	59 (88%)	7 (10%)	1 (2%)	8	38
11	K	101/142 (71%)	95 (94%)	4 (4%)	2 (2%)	6	32
12	L	43/70 (61%)	37 (86%)	5 (12%)	1 (2%)	5	29
13	M	104/415 (25%)	98 (94%)	4 (4%)	2 (2%)	6	32
14	N	156/233 (67%)	127 (81%)	23 (15%)	6 (4%)	2	20
15	O	581/894 (65%)	407 (70%)	119 (20%)	55 (10%)	0	8
16	P	378/514 (74%)	275 (73%)	52 (14%)	51 (14%)	0	3
17	Q	343/507 (68%)	248 (72%)	50 (15%)	45 (13%)	0	3
All	All	5432/7151 (76%)	4732 (87%)	478 (9%)	222 (4%)	4	18

All (222) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	530	TRP
1	A	531	PRO
1	A	721	LYS
1	A	791	TYR
1	A	912	VAL

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Mol	Chain	Res	Type
1	A	920	PHE
1	A	1114	TYR
1	A	1115	LYS
1	A	1116	GLN
2	B	115	SER
2	B	343	ASP
2	B	815	ARG
2	B	818	GLY
2	B	819	ASP
2	B	1163	GLN
2	B	1194	ILE
7	G	97	LYS
14	N	25	ILE
14	N	26	PRO
14	N	27	ASP
14	N	95	ILE
15	O	194	ARG
15	O	198	ASP
15	O	211	GLY
15	O	273	ARG
15	O	274	ILE
15	O	298	ASP
15	O	303	VAL
15	O	314	GLN
15	O	316	ALA
15	O	351	ILE
15	O	360	TRP
15	O	394	VAL
15	O	433	VAL
15	O	486	ALA
15	O	616	SER
15	O	650	LEU
15	O	656	HIS
15	O	666	SER
15	O	707	ASP
15	O	748	GLU
16	P	96	ILE
16	P	126	PRO
16	P	148	PRO
16	P	149	GLN
16	P	175	PRO
16	P	199	LEU

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Mol	Chain	Res	Type
16	P	201	LYS
16	P	206	GLN
16	P	208	PRO
16	P	276	PHE
16	P	290	THR
16	P	339	THR
16	P	340	GLN
16	P	342	THR
16	P	344	THR
16	P	358	PRO
16	P	370	SER
16	P	492	ALA
16	P	493	ILE
16	P	495	LYS
17	Q	135	GLU
17	Q	140	ILE
17	Q	144	VAL
17	Q	146	SER
17	Q	151	PRO
17	Q	153	ASN
17	Q	159	TYR
17	Q	243	PRO
17	Q	247	ILE
17	Q	265	SER
17	Q	267	GLY
17	Q	299	THR
17	Q	304	HIS
17	Q	355	THR
17	Q	356	PRO
17	Q	363	GLU
17	Q	394	GLY
17	Q	395	LEU
1	A	411	VAL
1	A	583	ASN
1	A	594	THR
1	A	671	GLN
1	A	788	ALA
1	A	1119	LYS
1	A	1479	ASP
2	B	77	LYS
2	B	91	LEU
2	B	113	VAL

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Mol	Chain	Res	Type
2	B	187	SER
2	B	784	ASP
5	E	128	PRO
9	I	26	SER
9	I	37	TYR
14	N	125	ALA
15	O	196	TYR
15	O	223	ASN
15	O	301	GLN
15	O	410	ASP
15	O	649	ILE
15	O	691	VAL
15	O	706	GLU
15	O	710	GLY
16	P	128	GLU
16	P	198	ILE
16	P	225	GLN
16	P	336	GLU
16	P	345	SER
16	P	389	GLN
16	P	421	ARG
17	Q	9	THR
17	Q	137	SER
17	Q	155	GLN
17	Q	305	THR
17	Q	387	ASN
17	Q	391	ASP
17	Q	396	ASP
1	A	921	PRO
1	A	1160	GLY
2	B	342	PRO
2	B	435	GLY
2	B	828	GLY
2	B	891	GLU
3	C	144	PRO
3	C	147	PRO
7	G	101	SER
7	G	242	VAL
10	J	42	LYS
13	M	46	SER
15	O	225	LEU
15	O	308	ASN

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Mol	Chain	Res	Type
15	O	315	PHE
15	O	325	SER
15	O	345	ASP
15	O	429	SER
15	O	618	ASP
15	O	690	ASP
16	P	124	ARG
16	P	134	LYS
16	P	216	GLU
16	P	260	CYS
16	P	261	ALA
16	P	287	TRP
16	P	316	TRP
16	P	337	SER
16	P	355	VAL
16	P	371	GLU
17	Q	228	ASN
17	Q	295	PRO
17	Q	296	PRO
17	Q	302	ARG
17	Q	339	ASN
17	Q	397	ARG
1	A	410	LYS
1	A	724	PRO
3	C	152	ASP
11	K	58	GLY
12	L	69	ALA
15	O	197	ARG
15	O	258	SER
15	O	354	PRO
15	O	398	ALA
15	O	409	ASP
15	O	659	LEU
15	O	664	GLU
16	P	247	ILE
16	P	248	SER
16	P	249	CYS
16	P	264	PRO
16	P	405	ASP
16	P	406	GLN
17	Q	283	ARG
17	Q	354	LEU

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Mol	Chain	Res	Type
17	Q	357	PRO
17	Q	388	LYS
1	A	409	ASP
1	A	628	PHE
1	A	630	GLY
2	B	93	ASN
2	B	490	LYS
9	I	40	SER
9	I	43	SER
11	K	59	THR
14	N	107	MET
15	O	240	SER
15	O	344	ILE
15	O	569	VAL
15	O	714	PHE
16	P	147	GLN
17	Q	134	PRO
17	Q	204	GLU
17	Q	248	LYS
17	Q	287	ASN
17	Q	340	ASP
17	Q	352	TRP
17	Q	383	PHE
3	C	174	ARG
7	G	30	GLU
9	I	38	PRO
15	O	292	LEU
15	O	359	SER
15	O	749	LYS
15	O	349	GLY
15	O	725	VAL
16	P	387	PRO
16	P	417	PHE
17	Q	384	VAL
1	A	666	VAL
16	P	219	ILE
16	P	224	GLY
16	P	360	LYS
2	B	297	VAL
6	F	131	PRO
13	M	32	ALA
17	Q	294	VAL

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Mol	Chain	Res	Type
1	A	665	PRO
15	O	432	PRO
15	O	713	ILE
15	O	766	GLY
16	P	357	TYR
16	P	263	PRO
17	Q	293	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1292/1465 (88%)	1262 (98%)	30 (2%)	44	64
2	B	1030/1053 (98%)	1007 (98%)	23 (2%)	45	64
3	C	270/296 (91%)	265 (98%)	5 (2%)	50	66
4	D	56/116 (48%)	56 (100%)	0	100	100
5	E	197/197 (100%)	196 (100%)	1 (0%)	81	81
6	F	73/137 (53%)	73 (100%)	0	100	100
7	G	179/291 (62%)	169 (94%)	10 (6%)	19	42
8	H	117/128 (91%)	116 (99%)	1 (1%)	70	75
9	I	57/110 (52%)	51 (90%)	6 (10%)	6	23
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%)	40 (100%)	0	100	100
13	M	96/371 (26%)	91 (95%)	5 (5%)	21	44
14	N	146/220 (66%)	142 (97%)	4 (3%)	39	60
15	O	545/779 (70%)	486 (89%)	59 (11%)	6	22
16	P	362/476 (76%)	299 (83%)	63 (17%)	2	12
17	Q	331/474 (70%)	273 (82%)	58 (18%)	2	11
All	All	4948/6365 (78%)	4683 (95%)	265 (5%)	21	43

All (265) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	81	LEU
1	A	83	VAL
1	A	108	PHE
1	A	111	LYS
1	A	407	GLN
1	A	413	LEU
1	A	415	ASP
1	A	416	ARG
1	A	450	LYS
1	A	461	GLU
1	A	462	LYS
1	A	551	VAL
1	A	591	ARG
1	A	592	GLN
1	A	659	THR
1	A	721	LYS
1	A	786	TYR
1	A	791	TYR
1	A	912	VAL
1	A	920	PHE
1	A	1023	LEU
1	A	1089	LEU
1	A	1114	TYR
1	A	1115	LYS
1	A	1116	GLN
1	A	1118	VAL
1	A	1119	LYS
1	A	1157	SER
1	A	1159	ASP
1	A	1457	ILE
2	B	91	LEU
2	B	110	ASN
2	B	111	ASP
2	B	113	VAL
2	B	300	SER
2	B	487	VAL
2	B	547	HIS
2	B	593	ILE
2	B	696	ILE
2	B	749	THR
2	B	811	LEU
2	B	813	LEU

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Mol	Chain	Res	Type
2	B	815	ARG
2	B	819	ASP
2	B	820	PRO
2	B	885	VAL
2	B	959	THR
2	B	977	ILE
2	B	1046	VAL
2	B	1117	VAL
2	B	1174	THR
2	B	1194	ILE
2	B	1196	LEU
3	C	136	LEU
3	C	148	LYS
3	C	151	THR
3	C	152	ASP
3	C	275	VAL
5	E	196	VAL
7	G	39	VAL
7	G	95	LEU
7	G	96	SER
7	G	97	LYS
7	G	98	GLU
7	G	99	ASP
7	G	169	VAL
7	G	214	LEU
7	G	239	THR
7	G	241	ARG
8	H	65	LEU
9	I	28	VAL
9	I	36	ILE
9	I	37	TYR
9	I	40	SER
9	I	41	GLN
9	I	42	PHE
13	M	45	LYS
13	M	46	SER
13	M	47	GLU
13	M	48	LYS
13	M	66	THR
14	N	25	ILE
14	N	94	ASP
14	N	95	ILE

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Mol	Chain	Res	Type
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	222	GLN
15	O	225	LEU
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	299	ASP
15	O	312	LEU
15	O	344	ILE
15	O	353	ASP
15	O	355	GLU
15	O	357	LEU
15	O	375	PHE
15	O	428	GLU
15	O	430	ASN
15	O	439	LYS
15	O	463	LEU
15	O	485	LYS
15	O	568	ILE
15	O	580	ASN
15	O	583	GLU
15	O	584	ARG
15	O	615	ASN
15	O	648	SER
15	O	649	ILE
15	O	650	LEU
15	O	659	LEU
15	O	661	ASN
15	O	662	LEU
15	O	664	GLU
15	O	665	ASN
15	O	666	SER

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Mol	Chain	Res	Type
15	O	667	ASP
15	O	671	SER
15	O	672	ILE
15	O	689	GLN
15	O	690	ASP
15	O	691	VAL
15	O	704	LEU
15	O	712	ASP
15	O	725	VAL
15	O	735	GLU
15	O	744	LEU
15	O	746	ARG
15	O	747	LEU
15	O	749	LYS
15	O	760	ILE
15	O	772	ILE
15	O	779	ASP
15	O	780	ILE
16	P	95	LEU
16	P	125	PHE
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	169	SER
16	P	170	THR
16	P	171	HIS
16	P	176	VAL
16	P	179	CYS
16	P	183	LYS
16	P	198	ILE
16	P	199	LEU
16	P	209	ASN
16	P	215	LEU
16	P	223	ASN
16	P	225	GLN
16	P	227	TYR
16	P	259	GLN
16	P	273	VAL
16	P	279	THR

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Mol	Chain	Res	Type
16	P	281	ILE
16	P	282	ARG
16	P	283	ASN
16	P	284	LEU
16	P	287	TRP
16	P	291	ASP
16	P	301	HIS
16	P	312	LEU
16	P	320	PHE
16	P	335	THR
16	P	339	THR
16	P	348	ILE
16	P	355	VAL
16	P	356	VAL
16	P	360	LYS
16	P	365	ASP
16	P	369	TRP
16	P	370	SER
16	P	371	GLU
16	P	389	GLN
16	P	390	THR
16	P	399	SER
16	P	400	MET
16	P	401	GLU
16	P	402	MET
16	P	404	ILE
16	P	405	ASP
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	497	GLN
16	P	510	LEU
16	P	512	ARG
17	Q	4	VAL
17	Q	8	LEU
17	Q	9	THR

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Mol	Chain	Res	Type
17	Q	27	ILE
17	Q	34	ILE
17	Q	123	GLU
17	Q	132	GLU
17	Q	133	LYS
17	Q	135	GLU
17	Q	138	PHE
17	Q	139	GLU
17	Q	142	ARG
17	Q	147	GLN
17	Q	150	GLN
17	Q	153	ASN
17	Q	155	GLN
17	Q	160	HIS
17	Q	168	ILE
17	Q	175	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	269	ASP
17	Q	272	GLN
17	Q	276	GLN
17	Q	277	ILE
17	Q	279	SER
17	Q	285	VAL
17	Q	290	TYR
17	Q	292	SER
17	Q	293	ILE
17	Q	294	VAL
17	Q	298	GLN
17	Q	303	THR
17	Q	317	LEU
17	Q	342	LEU
17	Q	346	ILE
17	Q	349	ILE
17	Q	364	VAL

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Mol	Chain	Res	Type
17	Q	365	TRP
17	Q	367	ILE
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
17	Q	407	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (108) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN
1	A	43	HIS
1	A	60	ASN
1	A	75	HIS
1	A	106	HIS
1	A	107	HIS
1	A	116	HIS
1	A	224	HIS
1	A	336	GLN
1	A	344	ASN
1	A	383	ASN
1	A	431	GLN
1	A	458	GLN
1	A	470	HIS
1	A	580	HIS
1	A	592	GLN
1	A	738	ASN
1	A	880	GLN
1	A	1047	GLN
1	A	1088	HIS
1	A	1293	HIS
1	A	1314	GLN
1	A	1315	ASN
1	A	1319	ASN
1	A	1320	GLN

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Mol	Chain	Res	Type
1	A	1453	HIS
1	A	1454	HIS
1	A	1532	GLN
1	A	1581	HIS
1	A	1633	GLN
2	B	39	GLN
2	B	183	HIS
2	B	243	GLN
2	B	248	ASN
2	B	282	HIS
2	B	328	GLN
2	B	422	GLN
2	B	473	GLN
2	B	499	HIS
2	B	532	HIS
2	B	555	GLN
2	B	575	HIS
2	B	683	ASN
2	B	767	ASN
2	B	975	HIS
2	B	999	GLN
2	B	1008	HIS
2	B	1010	ASN
2	B	1041	ASN
2	B	1089	GLN
2	B	1094	ASN
2	B	1163	GLN
3	C	161	HIS
4	D	38	GLN
5	E	5	ASN
5	E	32	GLN
7	G	20	HIS
7	G	36	ASN
7	G	64	GLN
7	G	65	HIS
7	G	119	HIS
7	G	126	GLN
11	K	64	GLN
12	L	53	HIS
13	M	75	GLN
14	N	51	GLN
14	N	128	ASN

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Mol	Chain	Res	Type
14	N	170	HIS
15	O	215	ASN
15	O	230	HIS
15	O	232	ASN
15	O	239	HIS
15	O	270	GLN
15	O	301	GLN
15	O	308	ASN
15	O	314	GLN
15	O	336	ASN
15	O	388	ASN
15	O	401	ASN
15	O	440	HIS
15	O	461	HIS
15	O	479	HIS
15	O	490	GLN
15	O	556	GLN
15	O	579	ASN
15	O	609	ASN
15	O	635	ASN
15	O	701	HIS
15	O	757	GLN
16	P	145	ASN
16	P	209	ASN
16	P	244	ASN
16	P	272	GLN
16	P	294	HIS
16	P	300	ASN
16	P	389	GLN
16	P	486	GLN
17	Q	15	GLN
17	Q	155	GLN
17	Q	212	HIS
17	Q	221	HIS
17	Q	263	ASN
17	Q	272	GLN
17	Q	289	ASN
17	Q	343	GLN
17	Q	385	ASN
17	Q	390	ASN
17	Q	407	HIS

5.3.3 RNA [i](#)

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	1

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	32.54

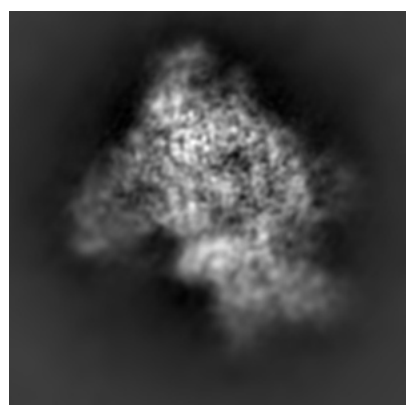
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8774. These allow visual inspection of the internal detail of the map and identification of artifacts.

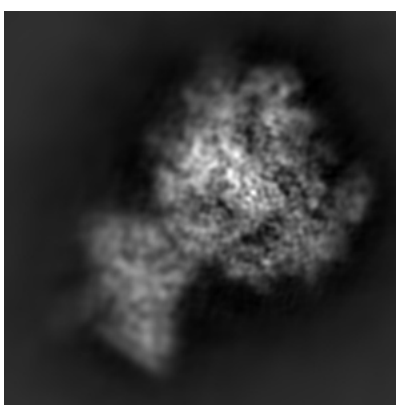
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

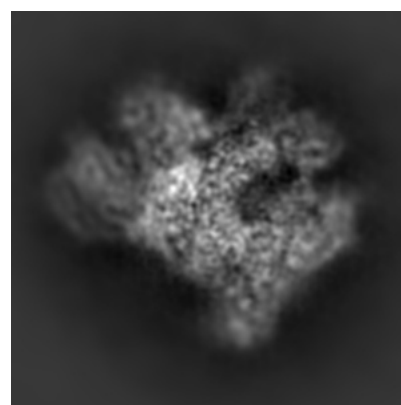
6.1.1 Primary map



X



Y

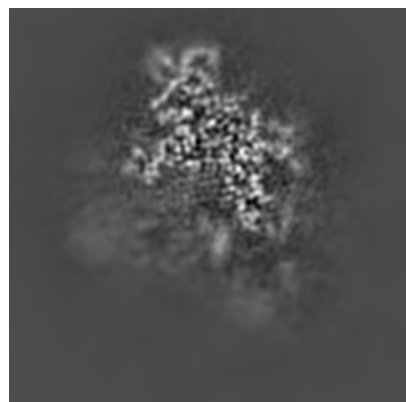


Z

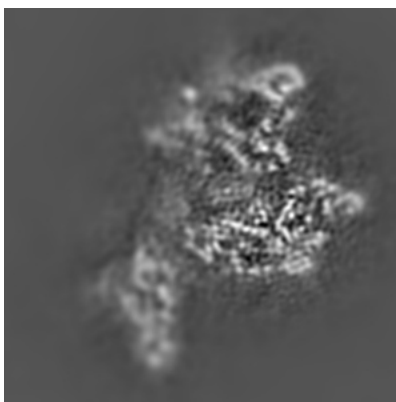
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

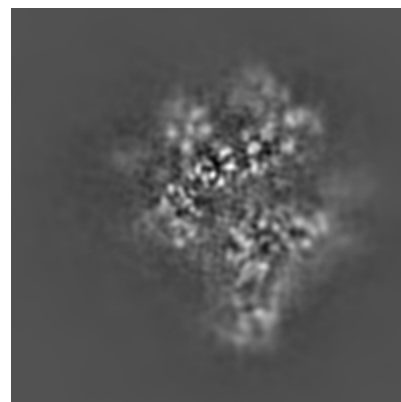
6.2.1 Primary map



X Index: 96



Y Index: 96

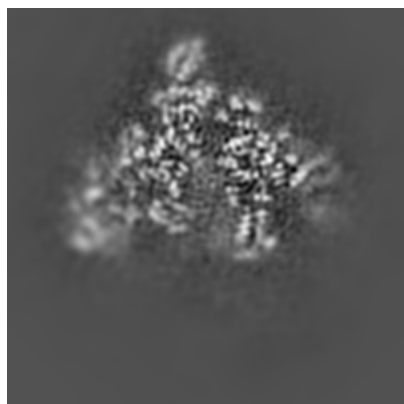


Z Index: 96

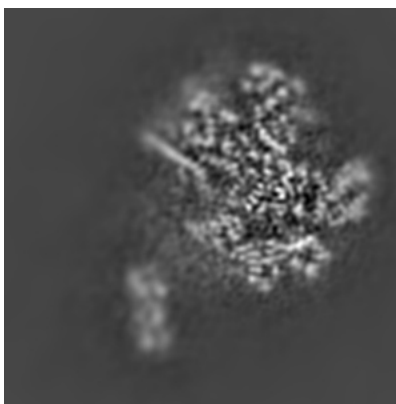
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

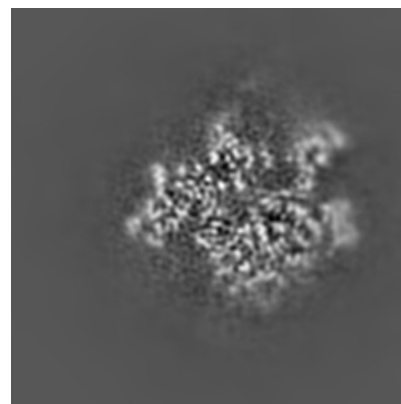
6.3.1 Primary map



X Index: 108



Y Index: 86

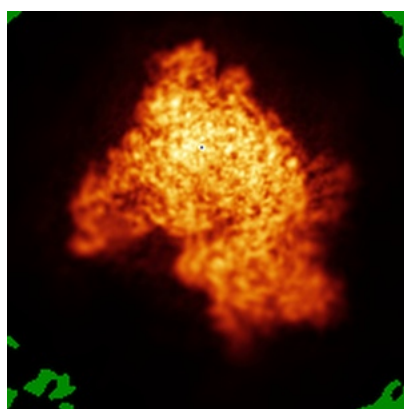


Z Index: 126

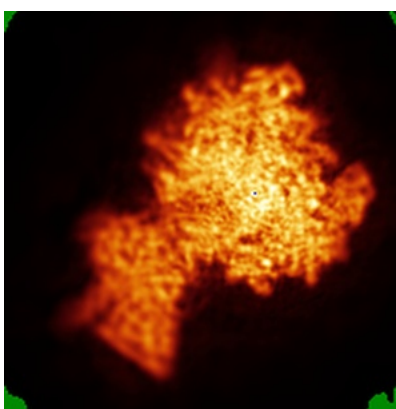
The images above show the largest variance slices of the map in three orthogonal directions.

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

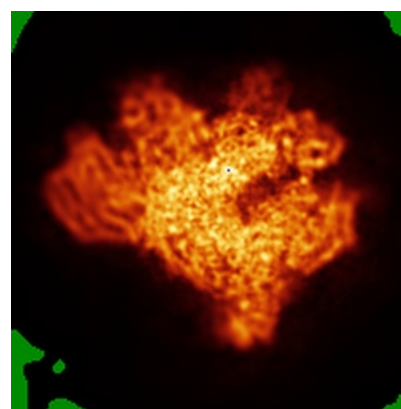
6.4.1 Primary map



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

This section was not generated.

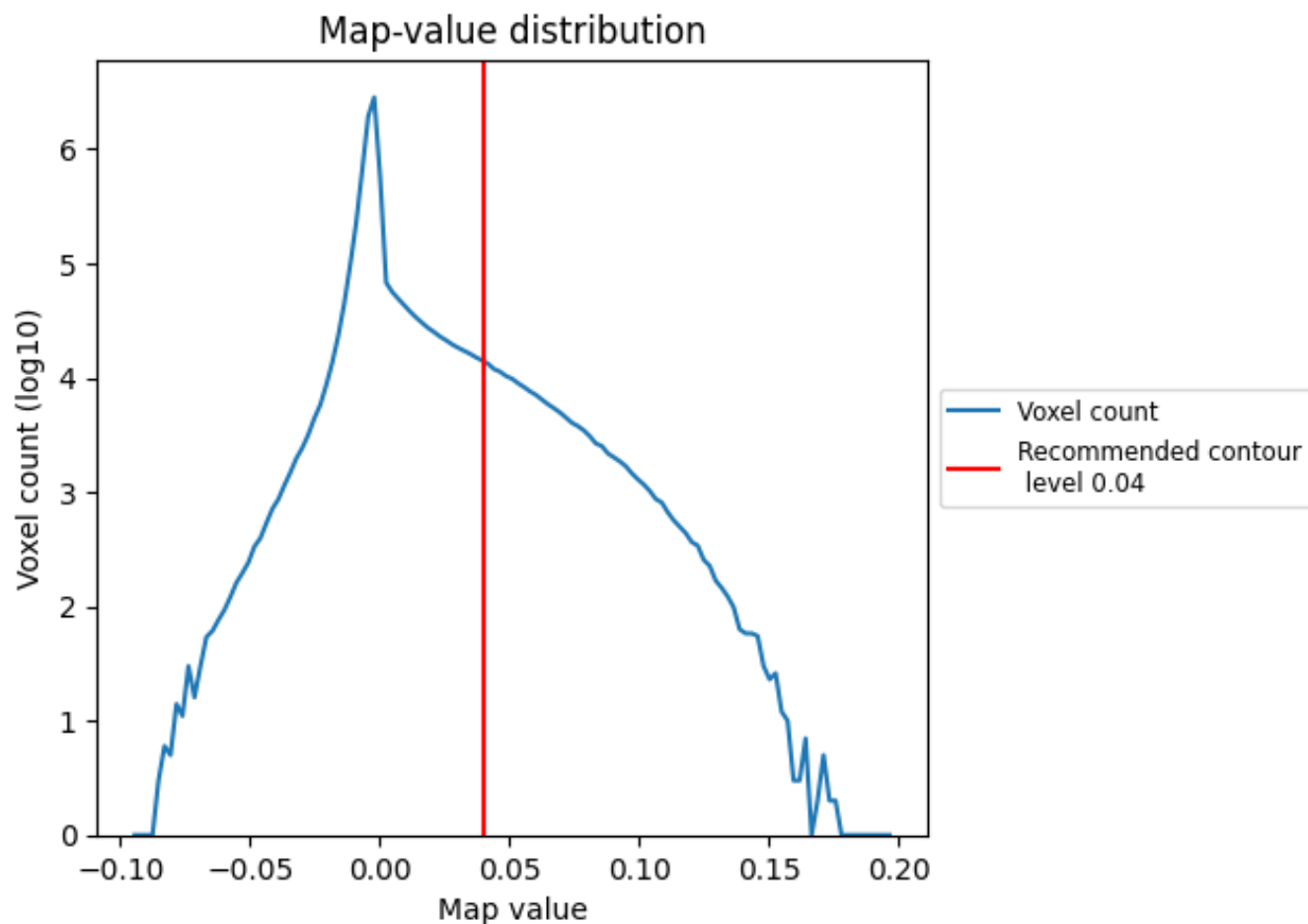
6.6 Mask visualisation

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

7 Map analysis [i](#)

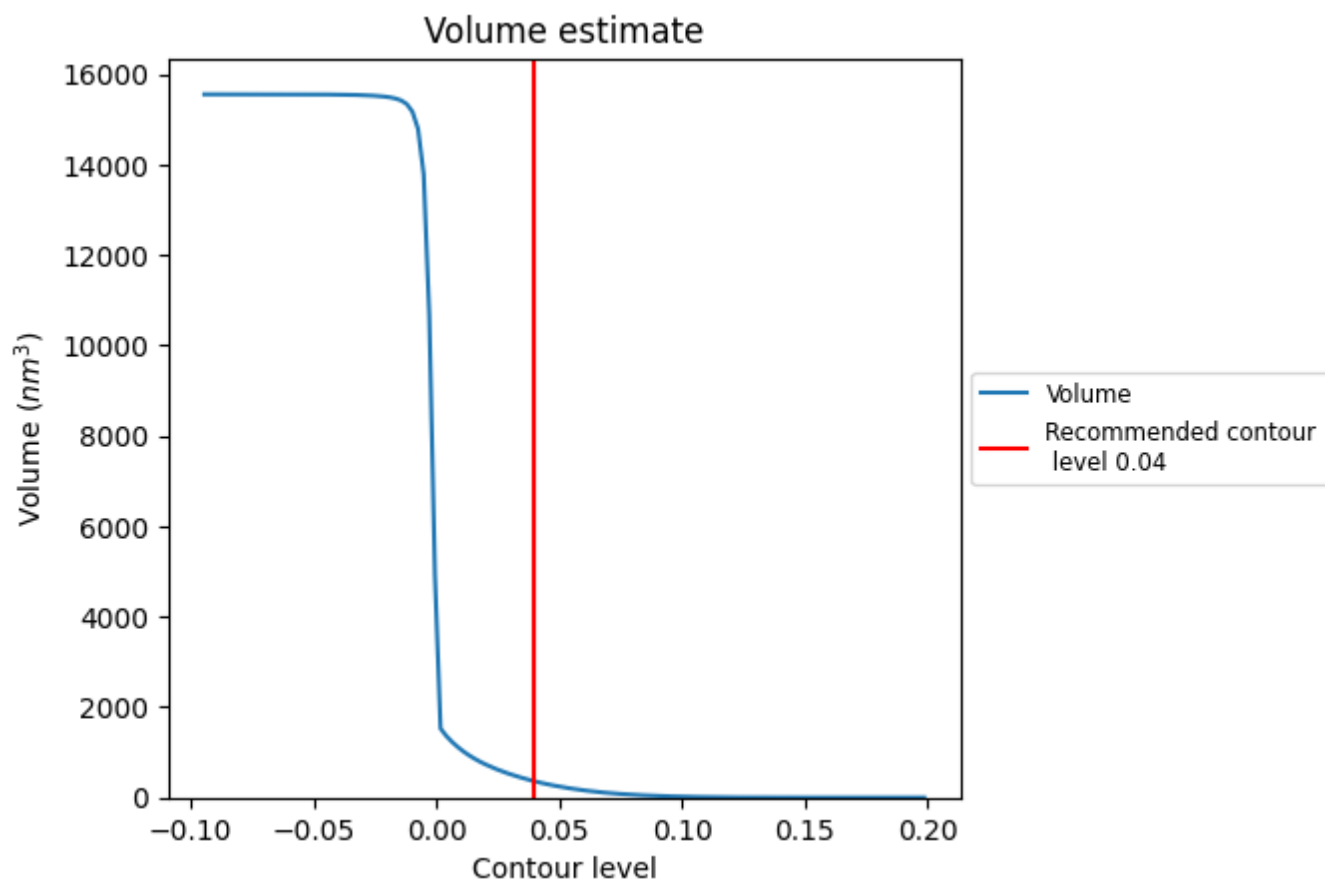
This section contains the results of statistical analysis of the map.

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.

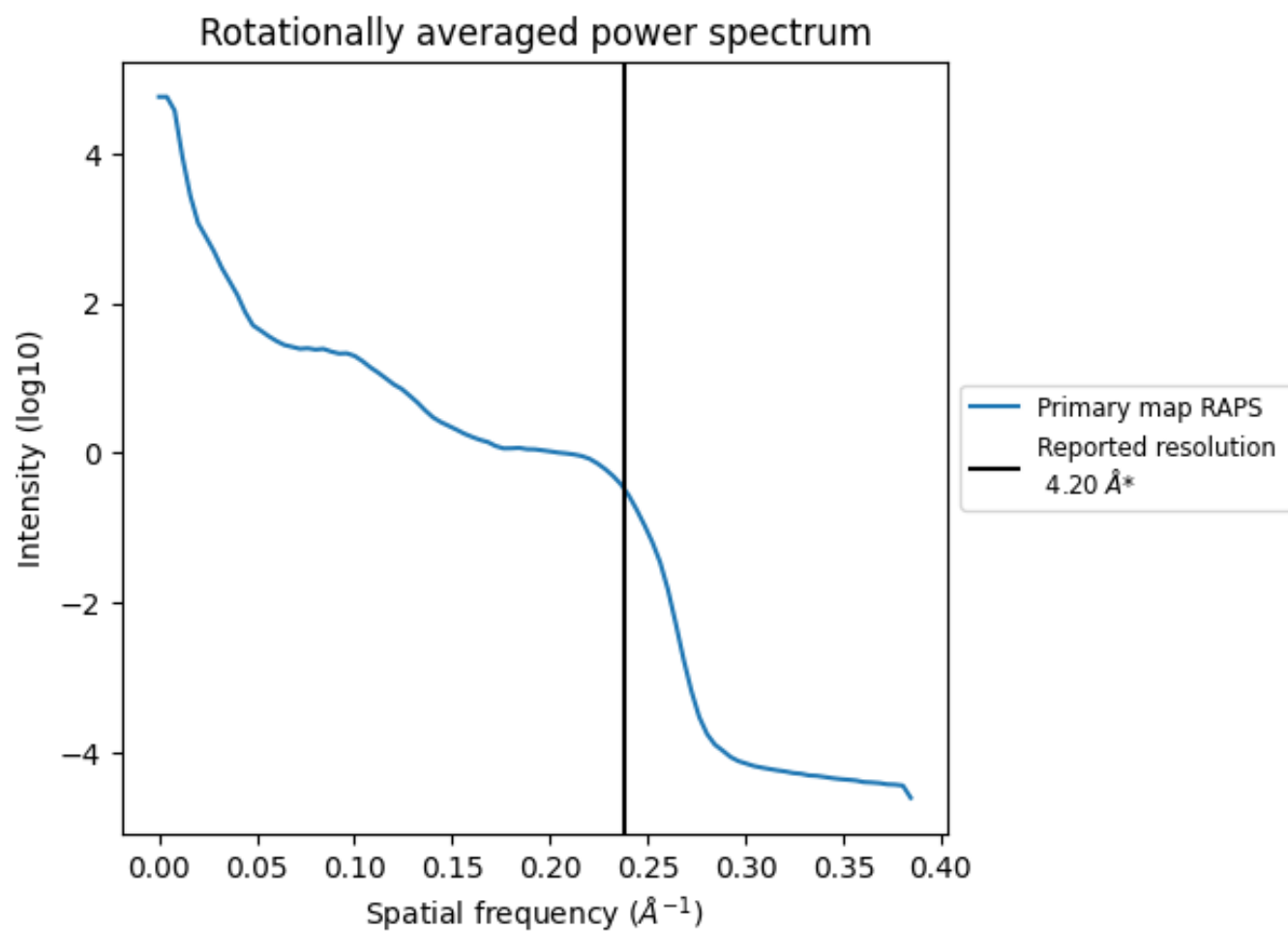
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 361 nm³; this corresponds to an approximate mass of 326 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 ⓘ

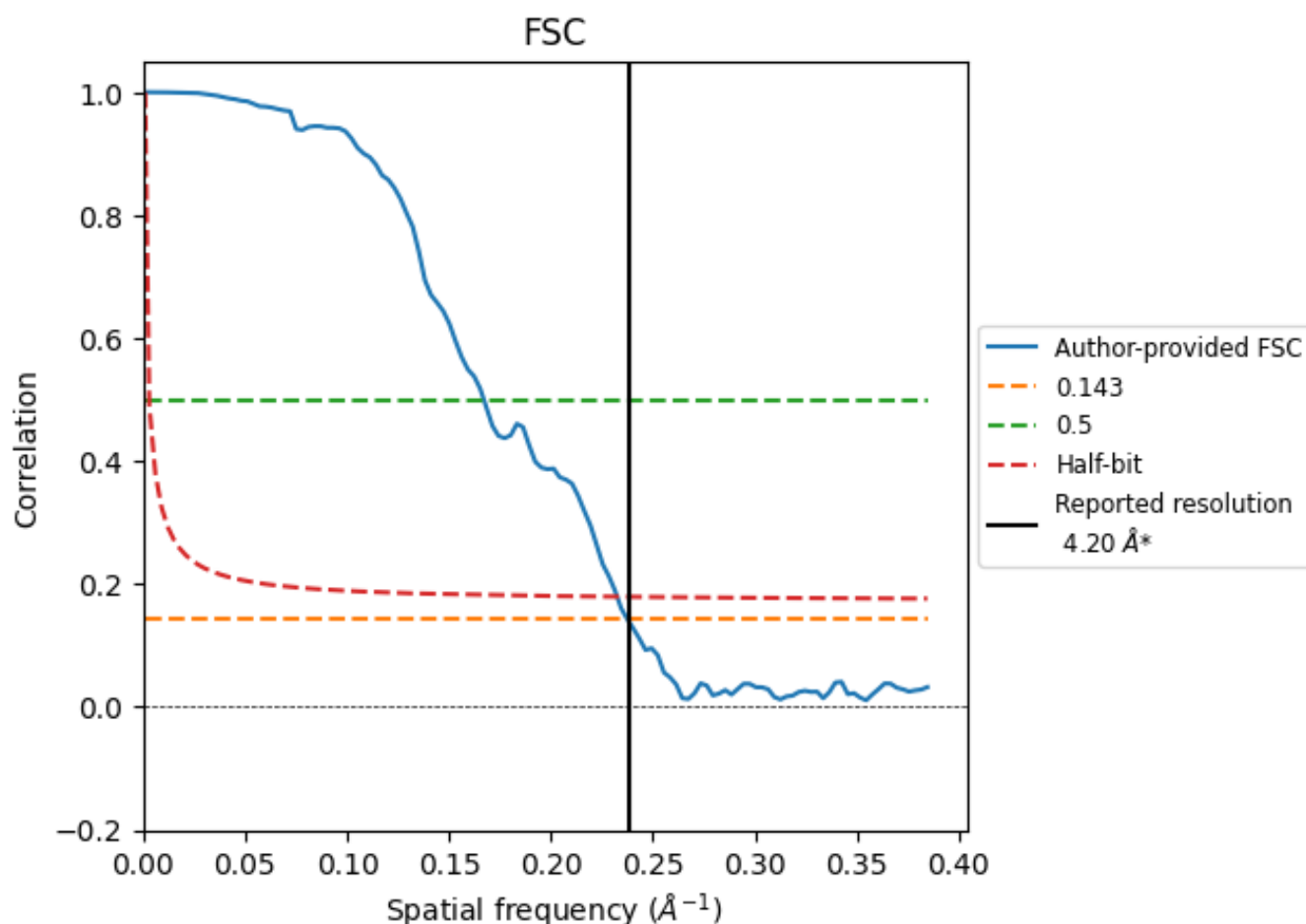


*Reported resolution corresponds to spatial frequency of 0.238 Å⁻¹

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 0.238 Å⁻¹

8.2 Resolution estimates [i](#)

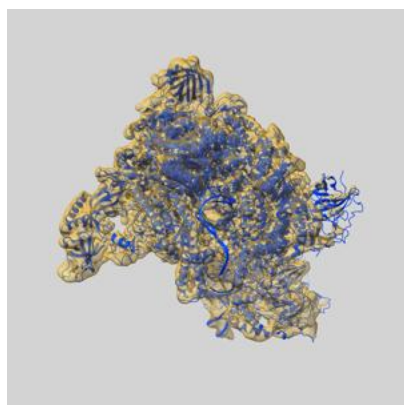
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.20	-	-
Author-provided FSC curve	4.21	5.99	4.30
Unmasked-calculated*	-	-	-

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

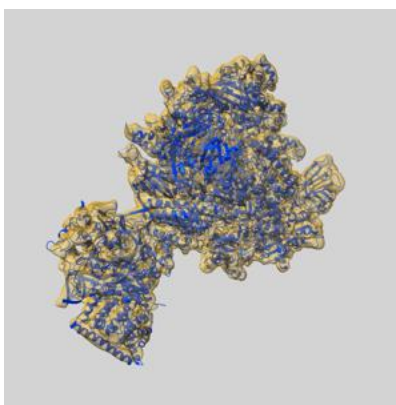
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8774 and PDB model 5W64. Per-residue inclusion information can be found in [section 3](#) on [page 9](#).

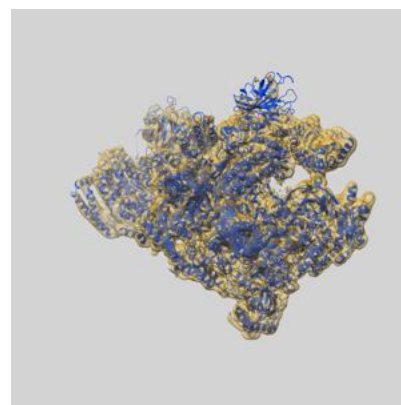
9.1 Map-model overlay [i](#)



X



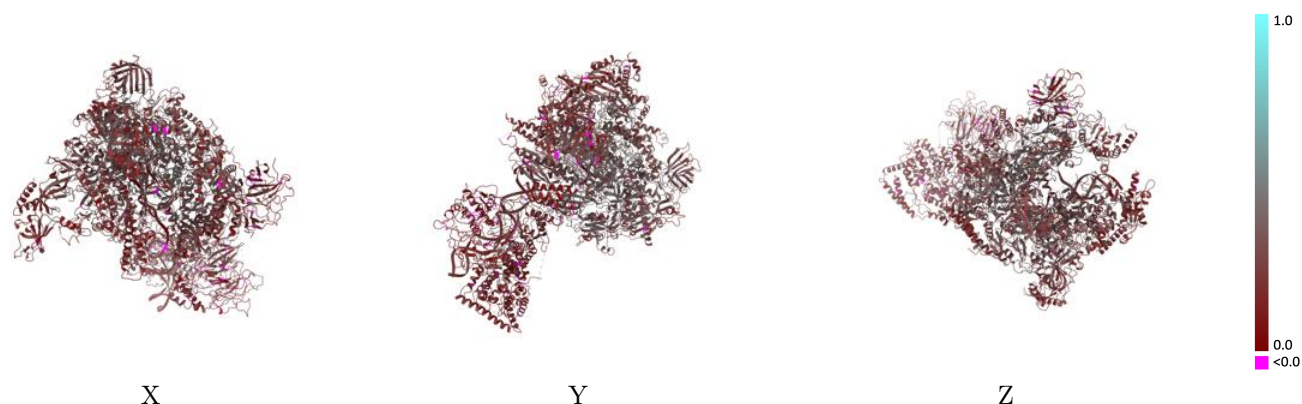
Y



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](#)

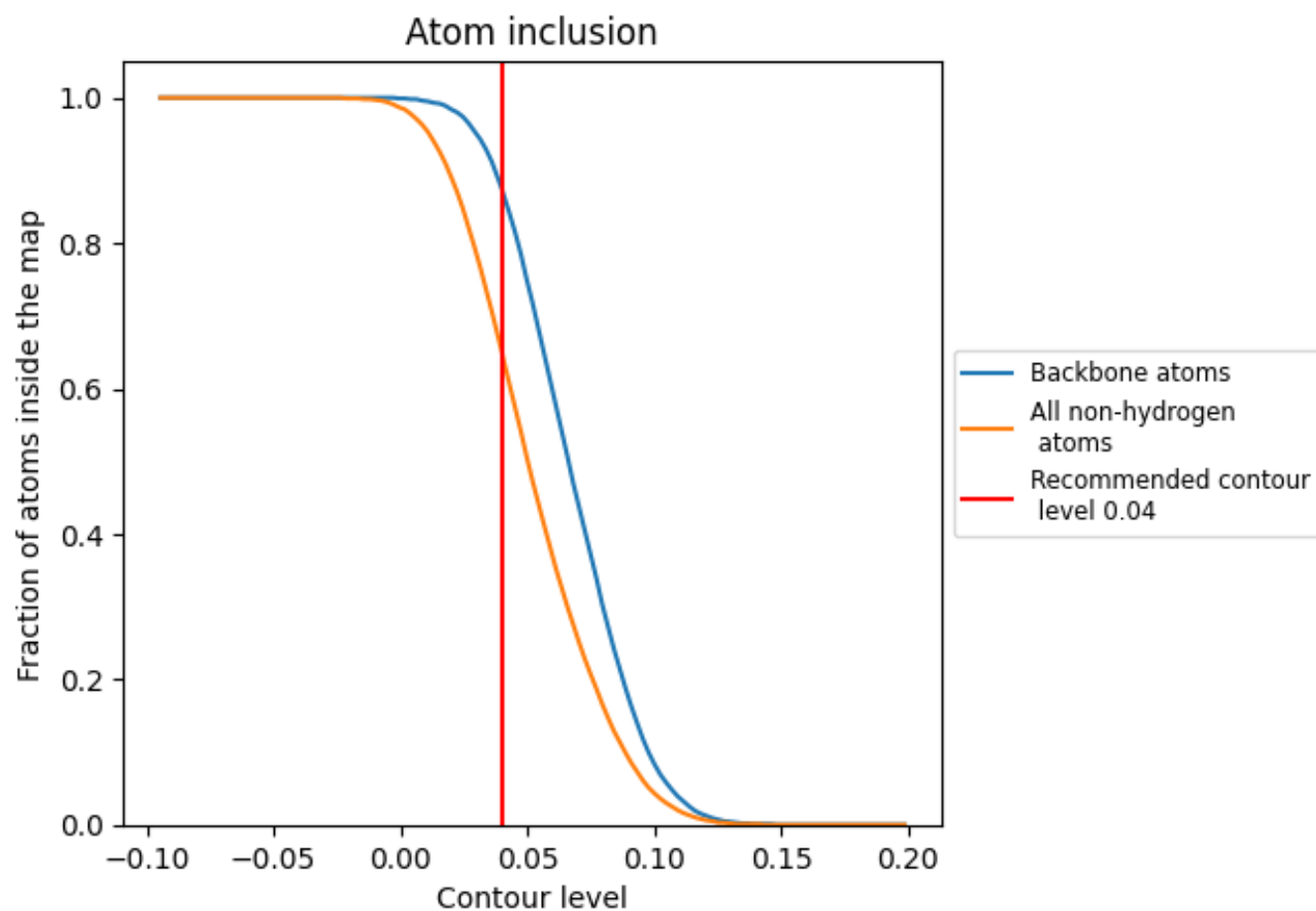


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 88% of all backbone atoms, 65% 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	0.6510	0.2760
A	0.7100	0.3130
B	0.7290	0.3540
C	0.7650	0.3280
D	0.6980	0.2400
E	0.7300	0.2700
F	0.7180	0.3260
G	0.6780	0.2280
H	0.7490	0.2920
I	0.7280	0.2820
J	0.7790	0.3560
K	0.7130	0.3020
L	0.7150	0.3360
M	0.2110	0.2090
N	0.2010	0.2190
O	0.5110	0.1810
P	0.5830	0.1710
Q	0.5410	0.1820
R	0.1730	0.1870
S	0.7190	0.2590
T	0.6200	0.2230

1.0

0.0

<0.0