



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 04:13 PM UTC

PDB ID : 2A6H / pdb_00002a6h
Title : Crystal structure of the T. thermophilus RNA polymerase holoenzyme in complex with antibiotic sterptolydigin
Authors : Temiakov, D.; Zenkin, N.; Vassilyeva, M.N.; Perederina, A.; Tahirov, T.H.; Savkina, M.; Zorov, S.; Nikiforov, V.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Severinov, K.; Vassilyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2005-07-02
Resolution : 2.40 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)

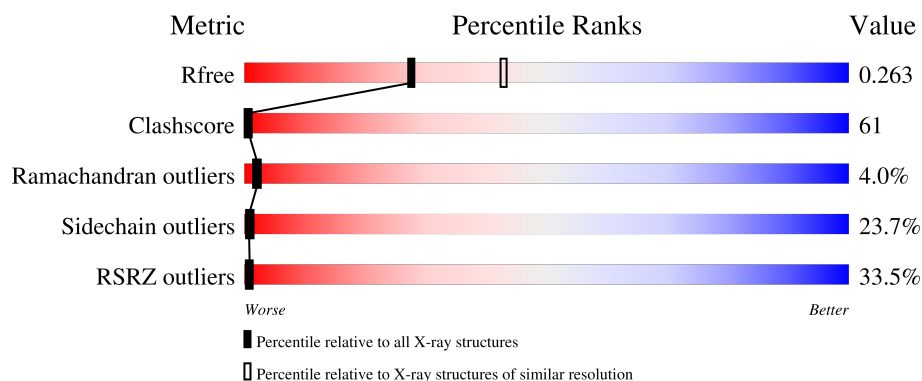
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	315	21% 16% 43% 14% 27%
1	B	315	22% 17% 42% 14% 27%
1	K	315	19% 23% 38% 12% 27%

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

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Mol	Chain	Length	Quality of chain
1	L	315	
2	C	1119	
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 60908 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	B	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	K	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	L	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

- Molecule 2 is a protein called DNA-directed RNA polymerase beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1381	Total	C	N	O	S	0	0	0
			10728	6776	1912	2007	33			
3	N	1381	Total	C	N	O	S	0	0	0
			10728	6776	1912	2007	33			

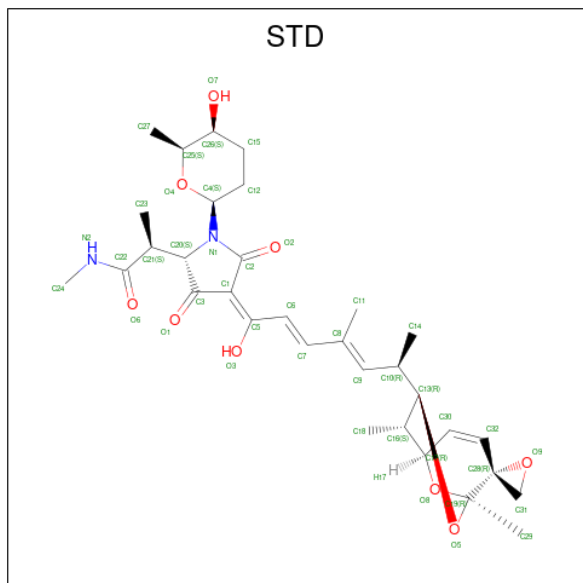
- Molecule 4 is a protein called RNA polymerase omega chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			
4	O	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			

- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			
5	P	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			

- Molecule 6 is STREPTOLYDIGIN (CCD ID: STD) (formula: $C_{32}H_{44}N_2O_9$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	D	1	Total	C	N	O	0	0
			43	32	2	9		
6	N	1	Total	C	N	O	0	0
			43	32	2	9		

- Molecule 7 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total	Zn	0	0
			2	2		
7	N	2	Total	Zn	0	0
			2	2		

- Molecule 8 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	D	1	Total Mg 1 1	0	0
8	N	1	Total Mg 1 1	0	0

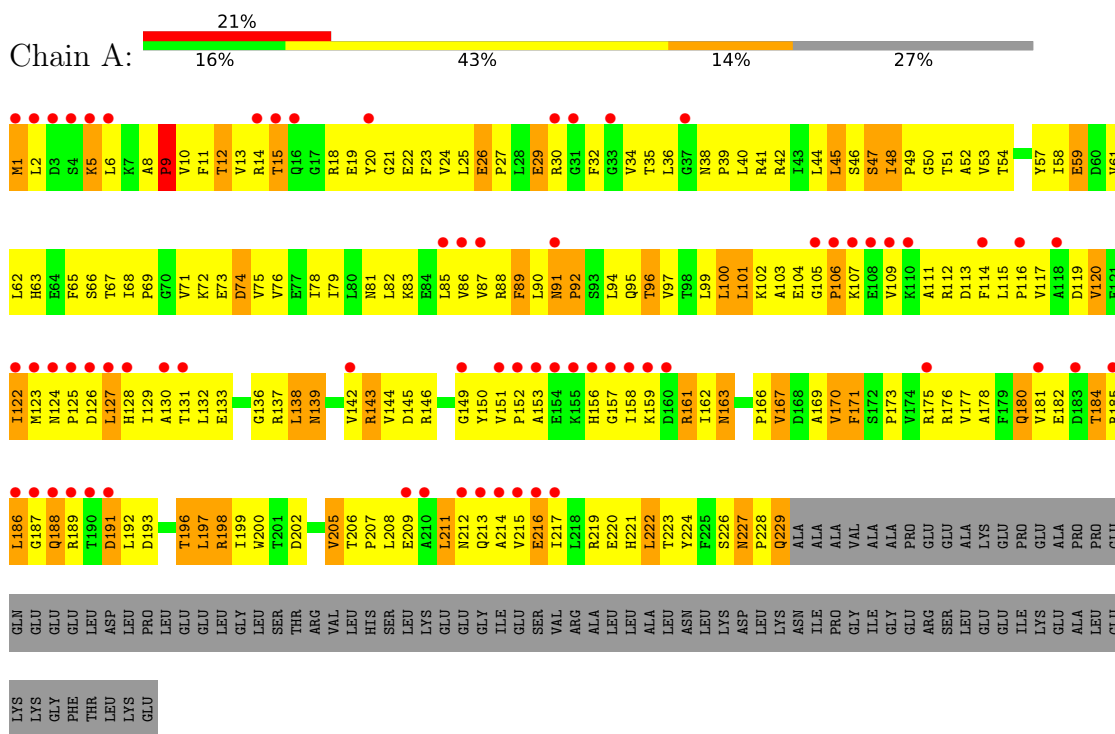
- Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	232	Total O 232 232	0	0
9	B	304	Total O 304 304	0	0
9	C	1144	Total O 1144 1144	0	0
9	D	1546	Total O 1546 1546	0	0
9	E	130	Total O 130 130	0	0
9	F	491	Total O 491 491	0	0
9	K	229	Total O 229 229	0	0
9	L	274	Total O 274 274	0	0
9	M	1072	Total O 1072 1072	0	0
9	N	1392	Total O 1392 1392	0	0
9	O	137	Total O 137 137	0	0
9	P	447	Total O 447 447	0	0

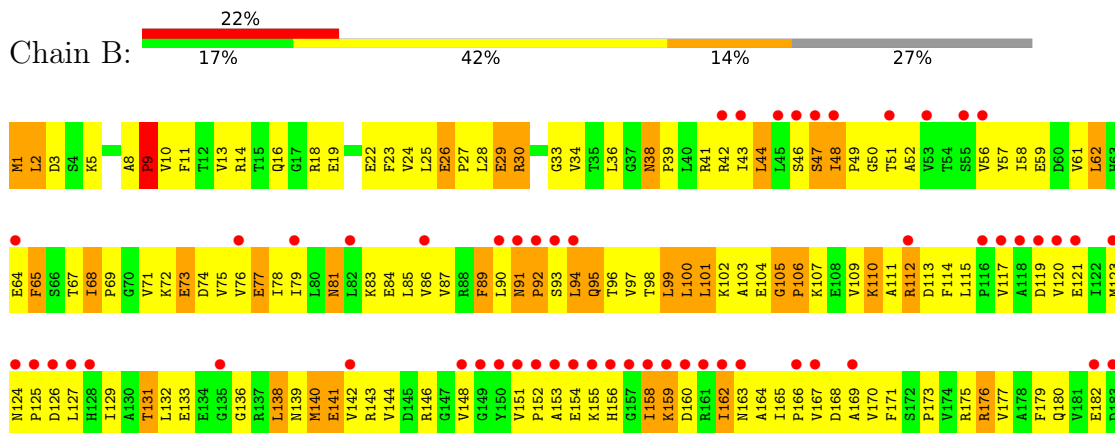
3 Residue-property plots [i](#)

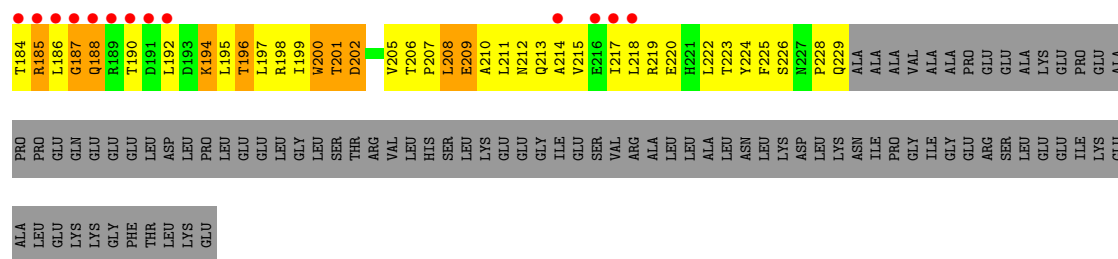
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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 alpha chain

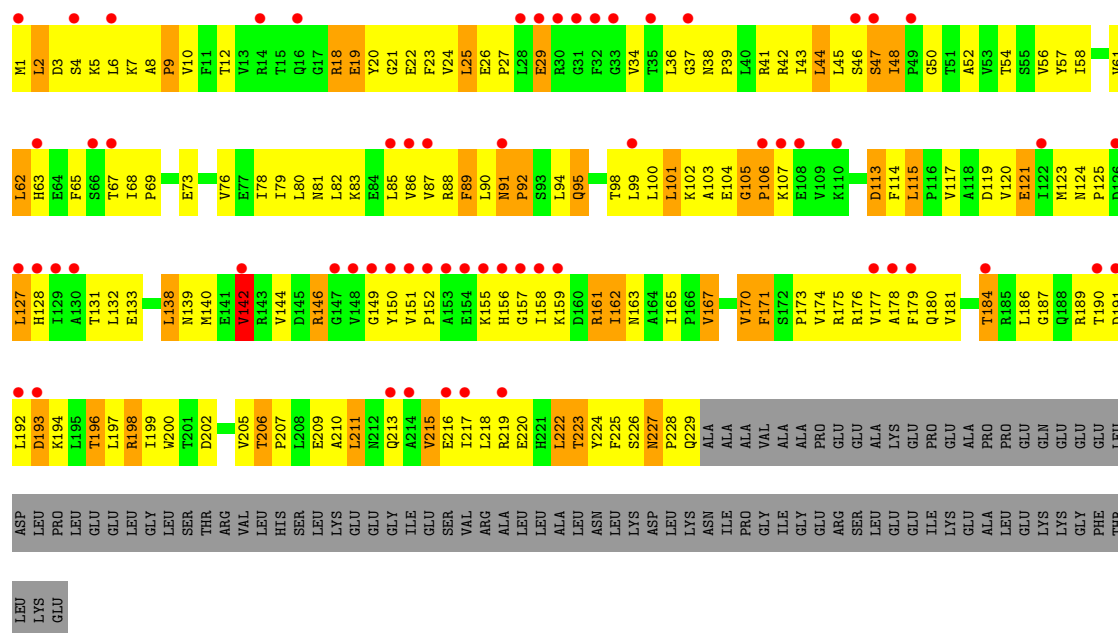
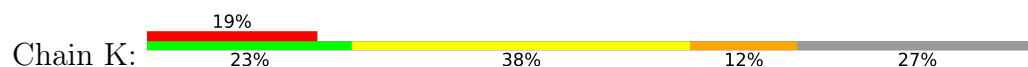


• Molecule 1: DNA-directed RNA polymerase alpha chain

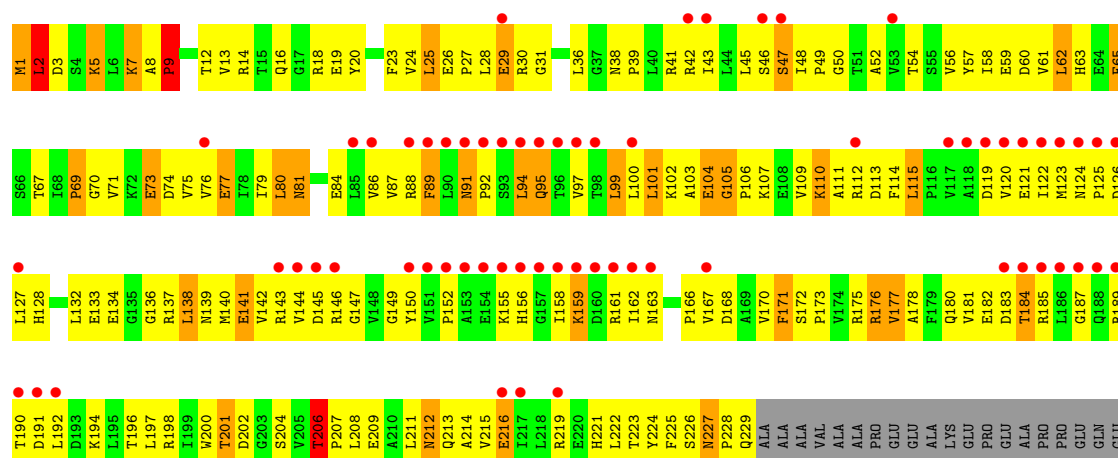
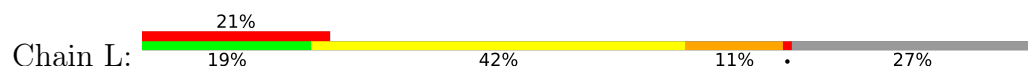




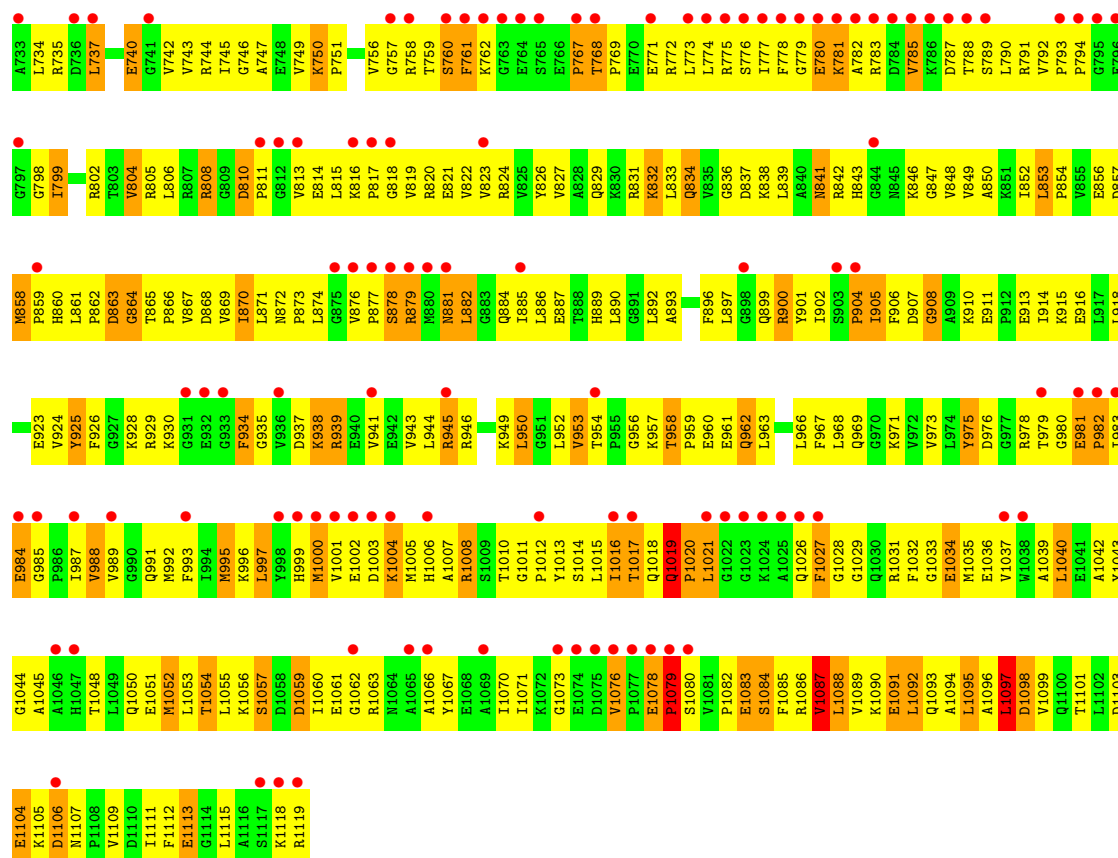
● Molecule 1: DNA-directed RNA polymerase alpha chain



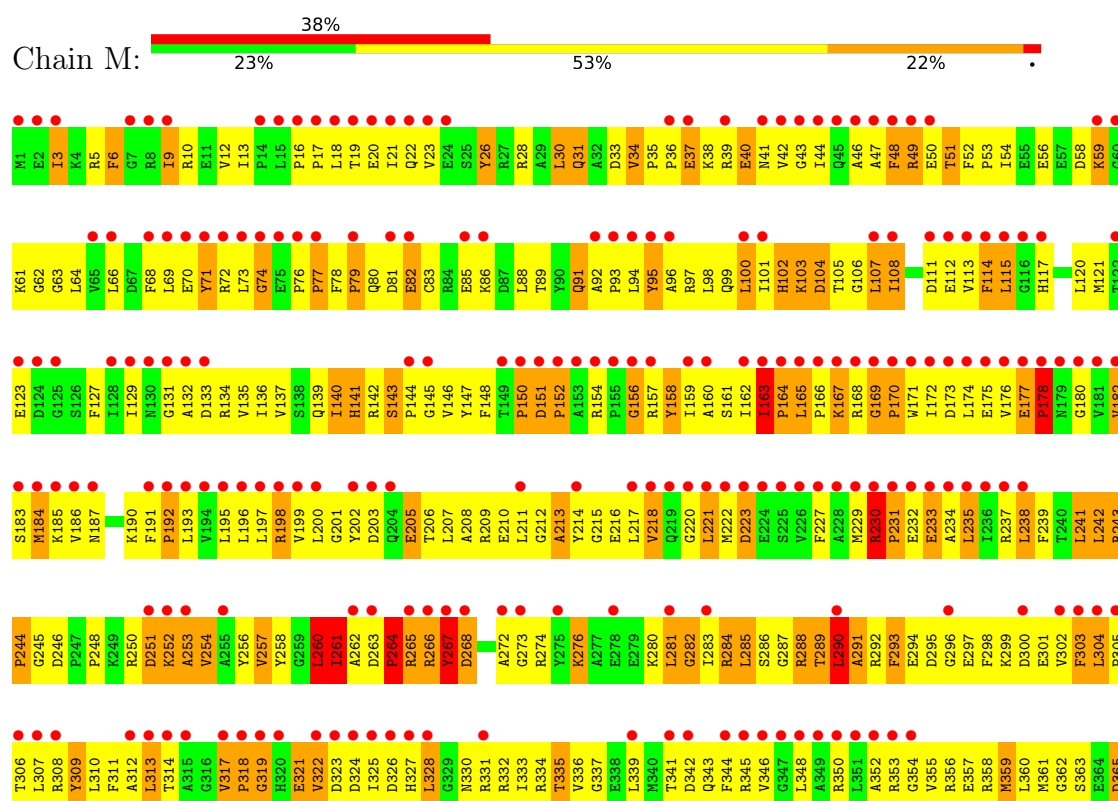
● Molecule 1: DNA-directed RNA polymerase alpha chain

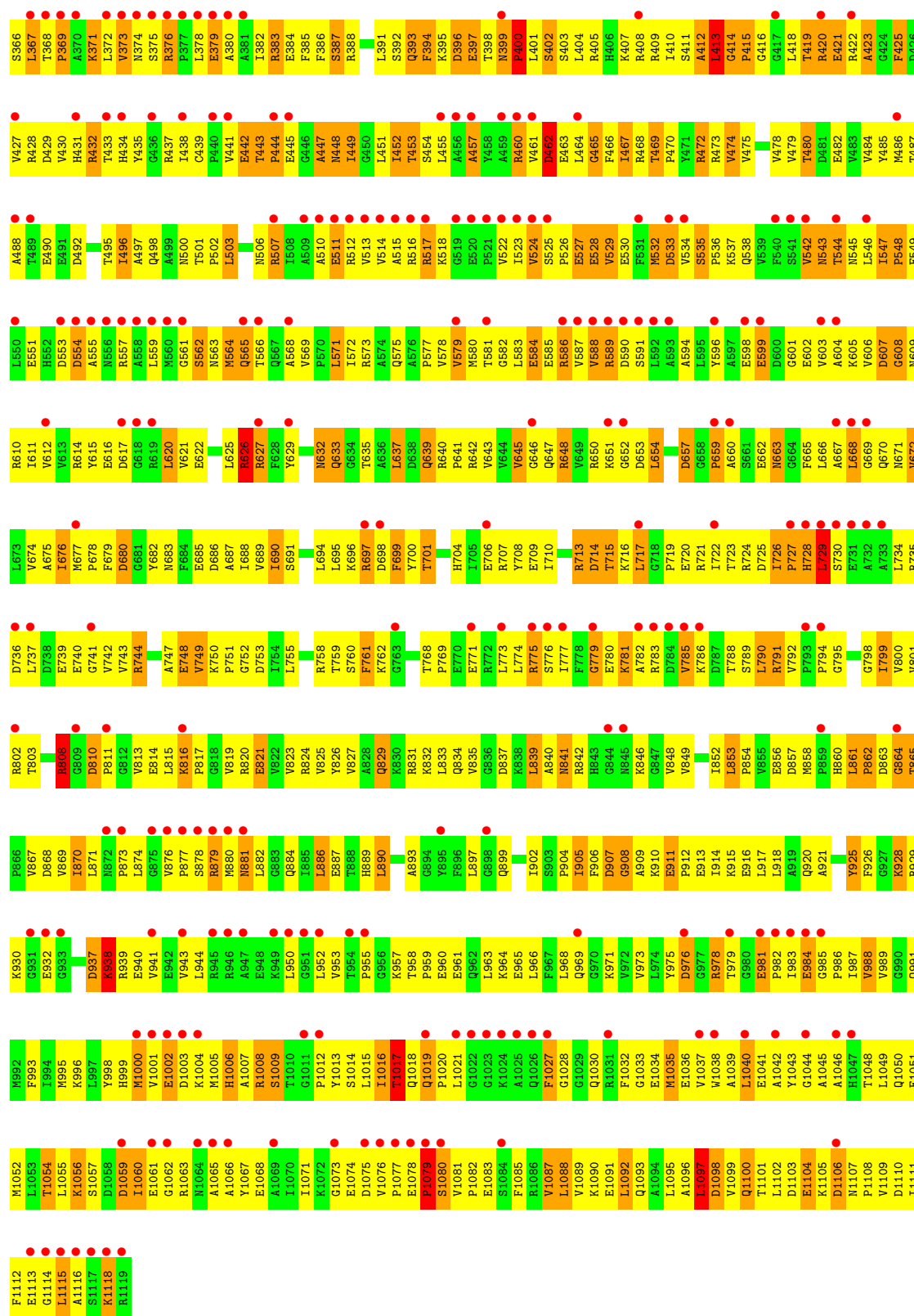




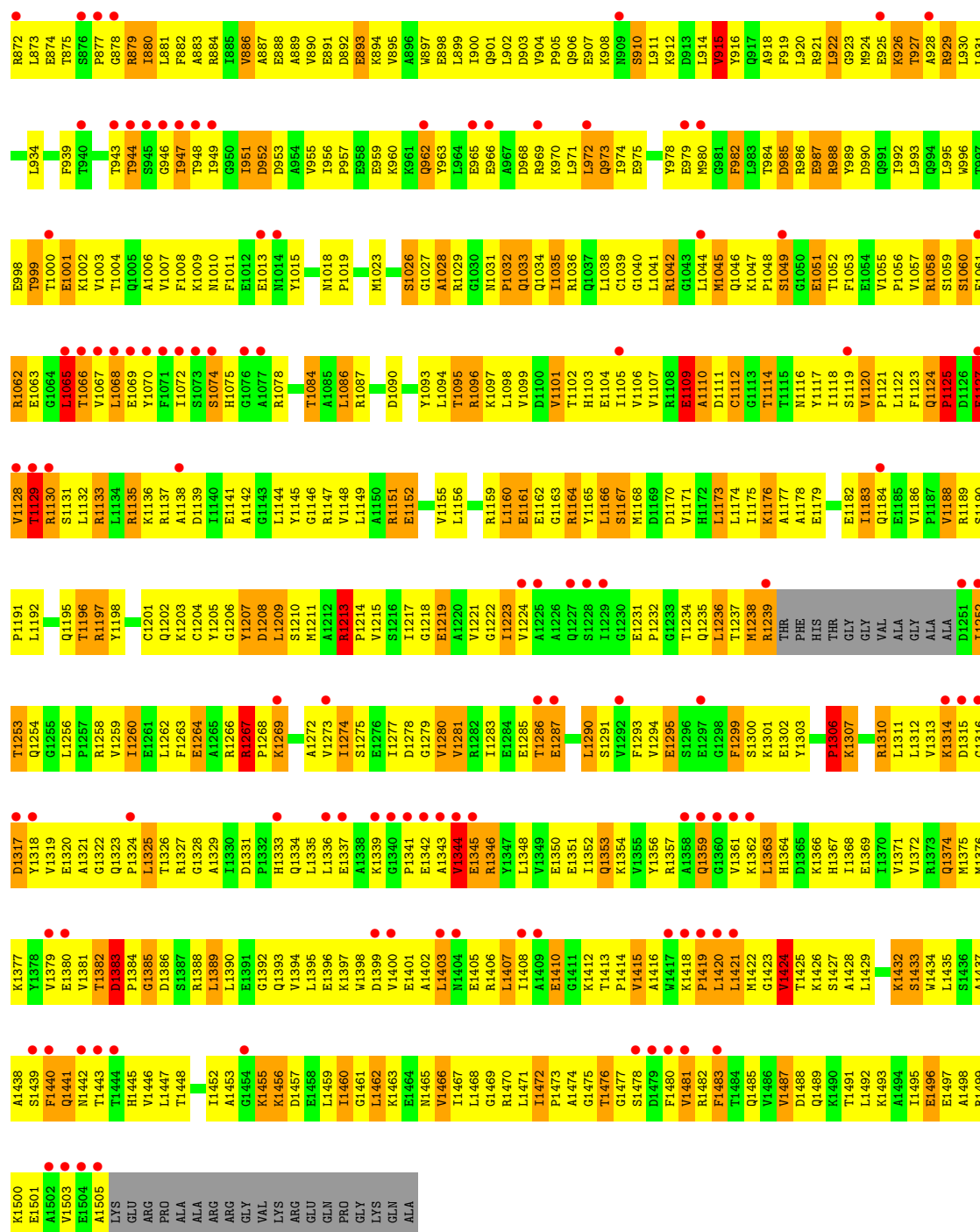


• Molecule 2: DNA-directed RNA polymerase beta chain



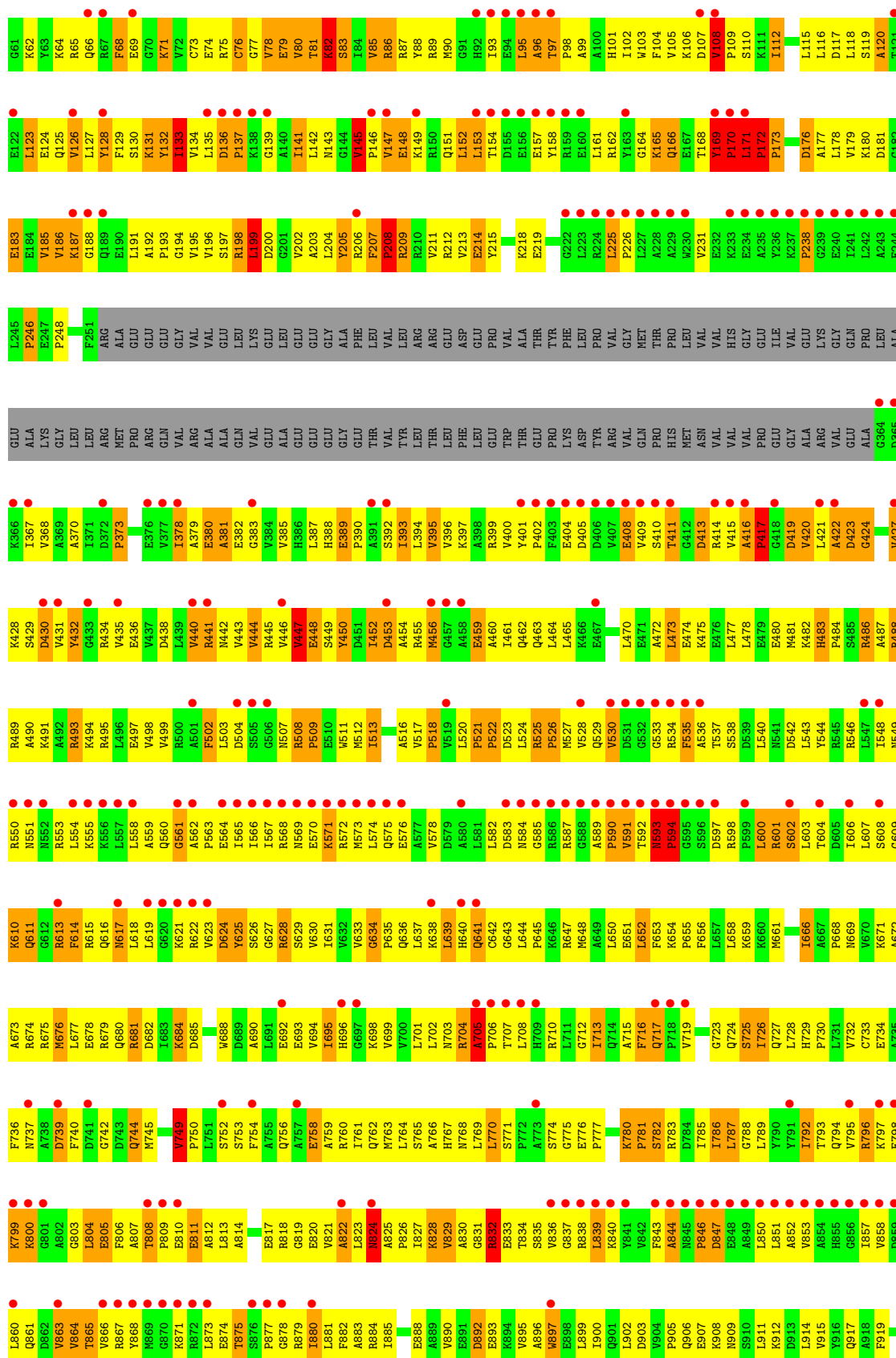


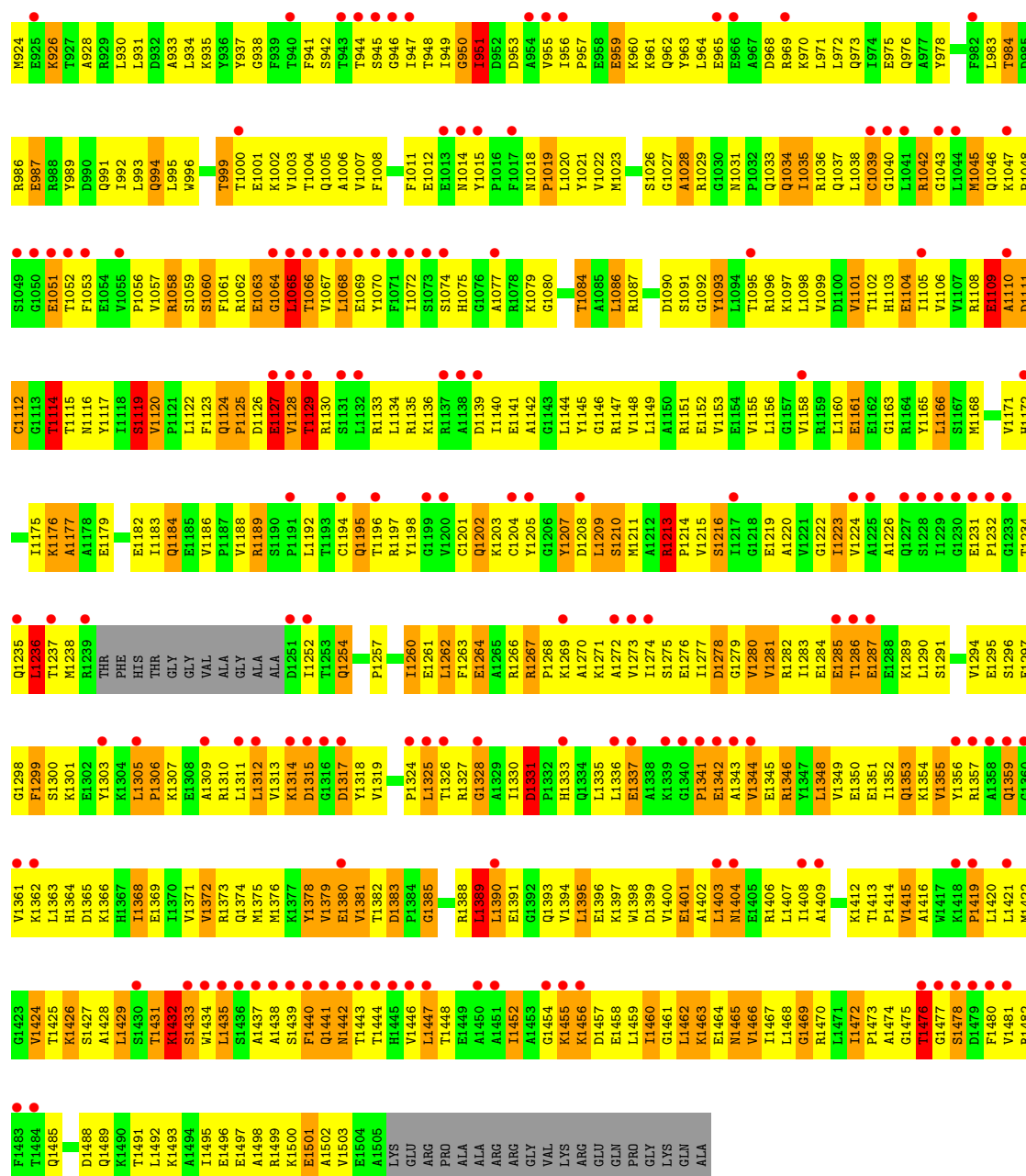




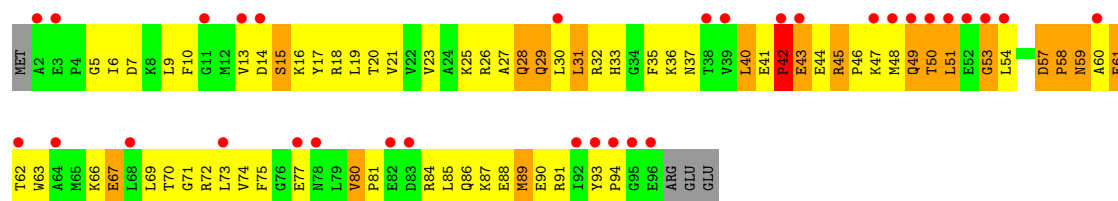
- Molecule 3: DNA-directed RNA polymerase beta' chain



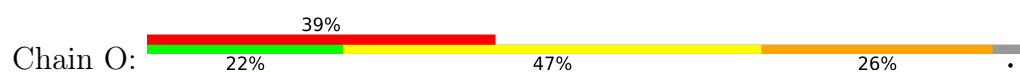




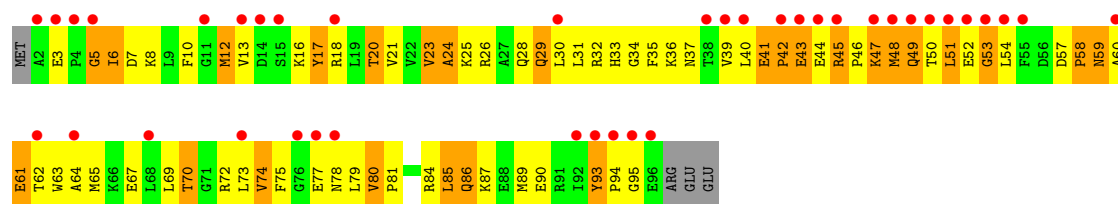
• Molecule 4: RNA polymerase omega chain



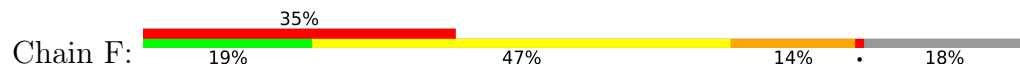
• Molecule 4: RNA polymerase omega chain



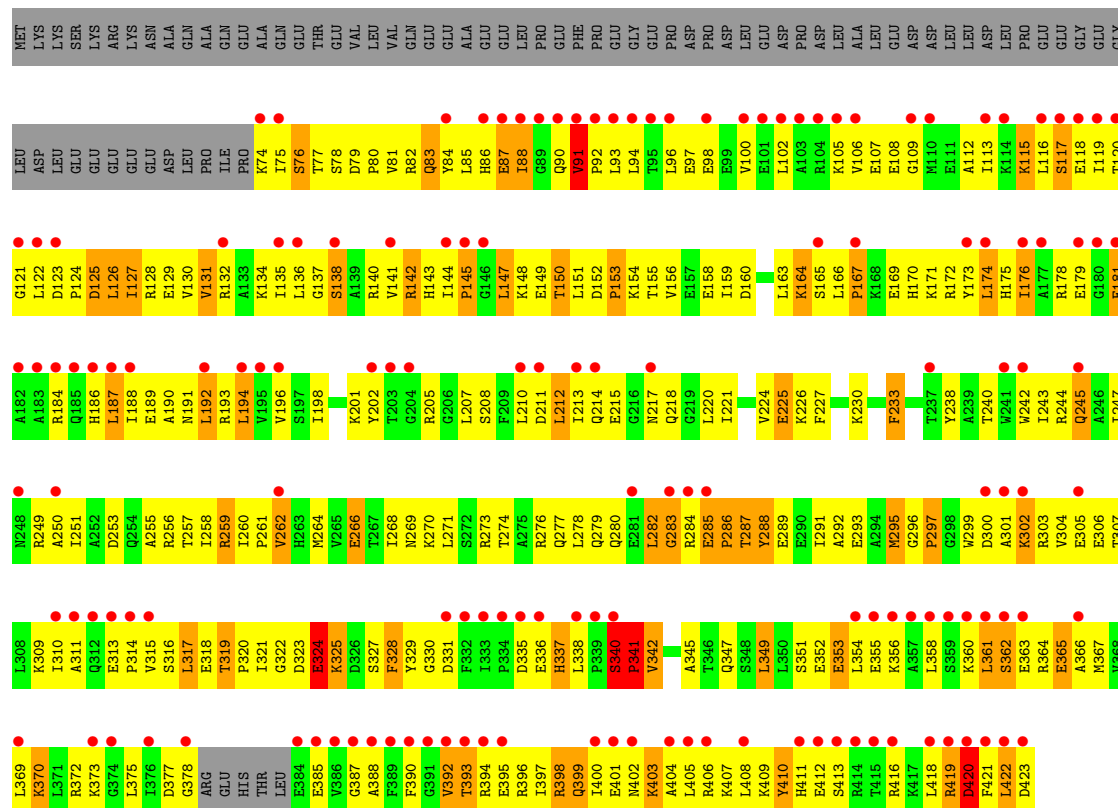
Chain 0:



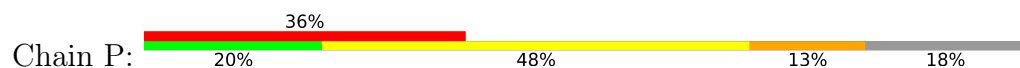
- Molecule 5: RNA polymerase sigma factor rpoD



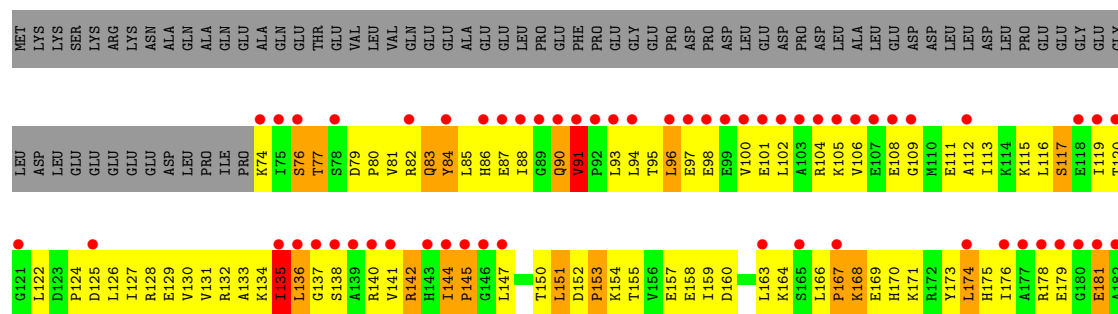
Chain F:

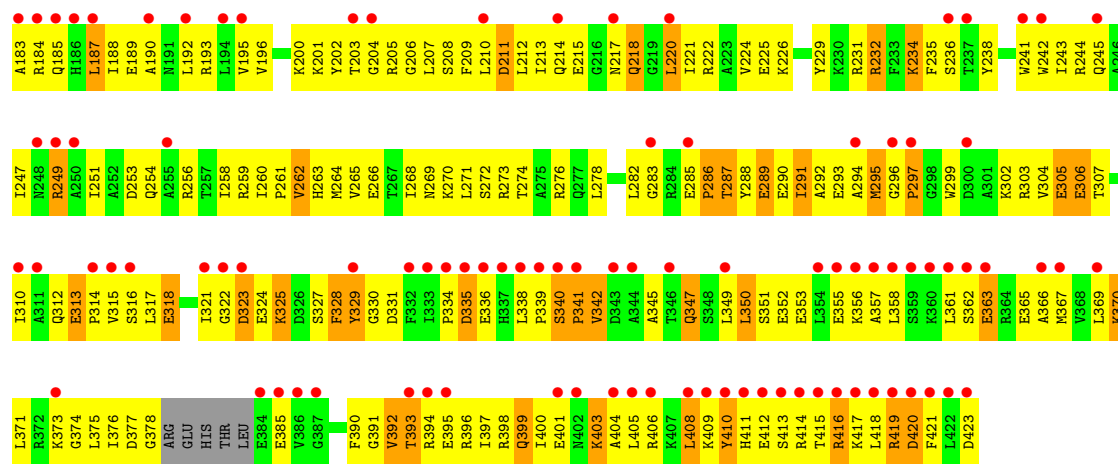


- Molecule 5: RNA polymerase sigma factor rpoD



Chain P:





4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.40 25.00 – 2.40	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 91.1 (25.00-2.40)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.48 (at 2.39Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.230 , 0.268 0.229 , 0.263	Depositor DCC
R_{free} test set	33251 reflections (5.76%)	wwPDB-VP
Wilson B-factor (Å ²)	47.0	Xtriage
Anisotropy	0.279	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	-0.65 , 989.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.079 for h,-h-k,-l 0.079 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.81	EDS
Total number of atoms	60908	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.03% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	0.89	3/1838 (0.2%)	1.19	11/2498 (0.4%)
1	B	0.79	1/1838 (0.1%)	1.10	9/2498 (0.4%)
1	K	0.79	1/1838 (0.1%)	1.12	10/2498 (0.4%)
1	L	0.76	3/1838 (0.2%)	1.06	9/2498 (0.4%)
2	C	0.90	10/8997 (0.1%)	1.30	86/12164 (0.7%)
2	M	0.89	5/8997 (0.1%)	1.29	85/12164 (0.7%)
3	D	0.91	11/10903 (0.1%)	1.33	108/14736 (0.7%)
3	N	0.91	16/10903 (0.1%)	1.34	116/14736 (0.8%)
4	E	0.87	0/783	1.39	12/1054 (1.1%)
4	O	0.90	1/783 (0.1%)	1.38	12/1054 (1.1%)
5	F	0.77	0/2812	1.20	13/3781 (0.3%)
5	P	0.80	2/2812 (0.1%)	1.20	14/3781 (0.4%)
All	All	0.88	53/54342 (0.1%)	1.28	485/73462 (0.7%)

All (53) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	191	PHE	CA-C	9.73	1.61	1.52
1	A	48	ILE	C-N	9.58	1.45	1.33
2	C	163	ILE	CA-CB	8.84	1.63	1.53
2	M	163	ILE	CA-CB	8.55	1.62	1.53
2	C	191	PHE	C-N	8.18	1.44	1.33
3	N	13	ALA	CA-CB	-7.88	1.43	1.53
1	L	171	PHE	CA-C	-7.62	1.42	1.52
2	M	423	ALA	CA-CB	-7.16	1.42	1.53
3	N	214	GLU	CA-C	6.97	1.55	1.52
3	N	83	SER	N-CA	-6.78	1.38	1.46
2	C	423	ALA	CA-CB	-6.72	1.43	1.53
3	N	1114	THR	CA-CB	6.56	1.61	1.53
2	M	412	ALA	CA-CB	-6.56	1.42	1.53
3	D	214	GLU	CA-C	6.40	1.55	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1087	VAL	CA-CB	6.35	1.62	1.54
3	N	83	SER	CA-C	-6.33	1.45	1.52
1	K	142	VAL	CA-CB	6.30	1.61	1.53
3	D	141	ILE	CA-CB	6.26	1.60	1.54
3	N	1379	VAL	N-CA	6.14	1.52	1.46
3	N	126	VAL	CA-CB	6.14	1.61	1.54
3	N	141	ILE	CA-CB	6.01	1.60	1.54
1	L	172	SER	N-CA	-5.99	1.35	1.46
1	A	48	ILE	CA-C	5.95	1.59	1.52
3	N	1379	VAL	CA-C	5.88	1.59	1.52
5	P	329	TYR	CA-C	-5.79	1.45	1.52
3	D	112	ILE	CA-CB	5.73	1.62	1.54
3	D	207	PHE	CA-C	5.67	1.59	1.52
3	D	13	ALA	CA-CB	-5.57	1.46	1.53
1	A	49	PRO	N-CA	5.56	1.53	1.46
3	N	1177	ALA	CA-CB	-5.51	1.44	1.53
3	D	1114	THR	CA-CB	5.43	1.59	1.53
2	C	191	PHE	N-CA	5.40	1.50	1.46
3	N	1378	TYR	CA-C	5.38	1.59	1.52
2	C	226	VAL	CA-CB	5.37	1.61	1.54
3	D	82	LYS	CA-C	5.36	1.59	1.52
3	N	1091	SER	N-CA	5.36	1.53	1.46
3	N	207	PHE	CA-C	5.35	1.59	1.52
2	C	468	ARG	CA-C	-5.34	1.46	1.52
5	P	135	ILE	CA-CB	5.34	1.61	1.54
2	C	412	ALA	CA-CB	-5.33	1.46	1.53
2	M	469	THR	N-CA	5.33	1.51	1.46
4	O	24	ALA	CA-CB	-5.17	1.45	1.53
3	N	447	VAL	CA-CB	5.16	1.61	1.54
3	D	145	VAL	CA-CB	5.16	1.60	1.54
1	L	206	THR	CA-CB	5.15	1.61	1.53
1	B	171	PHE	C-O	-5.14	1.17	1.24
3	D	1424	VAL	CA-CB	5.13	1.61	1.54
3	N	145	VAL	CA-CB	5.12	1.60	1.54
2	C	474	VAL	CA-CB	5.10	1.61	1.54
3	N	498	VAL	CA-CB	5.08	1.60	1.54
3	D	411	THR	CA-CB	5.05	1.60	1.53
3	D	126	VAL	CA-CB	5.04	1.59	1.54
2	M	726	ILE	CA-CB	5.02	1.60	1.54

All (485) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	207	PHE	CA-C-N	17.11	141.22	119.84
3	D	207	PHE	C-N-CA	17.11	141.22	119.84
3	N	207	PHE	CA-C-N	16.96	141.04	119.84
3	N	207	PHE	C-N-CA	16.96	141.04	119.84
3	N	1124	GLN	CA-C-N	16.75	140.78	119.84
3	N	1124	GLN	C-N-CA	16.75	140.78	119.84
2	C	177	GLU	CA-C-N	15.12	138.74	119.84
2	C	177	GLU	C-N-CA	15.12	138.74	119.84
2	M	177	GLU	CA-C-N	15.04	138.64	119.84
2	M	177	GLU	C-N-CA	15.04	138.64	119.84
3	N	508	ARG	CA-C-N	14.03	137.37	119.84
3	N	508	ARG	C-N-CA	14.03	137.37	119.84
3	D	508	ARG	CA-C-N	13.19	136.32	119.84
3	D	508	ARG	C-N-CA	13.19	136.32	119.84
3	D	1124	GLN	CA-C-N	12.48	135.44	119.84
3	D	1124	GLN	C-N-CA	12.48	135.44	119.84
1	A	48	ILE	CA-C-N	12.40	136.13	120.51
1	A	48	ILE	C-N-CA	12.40	136.13	120.51
3	N	423	ASP	N-CA-C	11.99	125.50	111.11
3	D	423	ASP	N-CA-C	11.73	125.19	111.11
2	C	191	PHE	CA-C-N	11.06	131.15	119.76
2	C	191	PHE	C-N-CA	11.06	131.15	119.76
3	D	1383	ASP	CA-C-N	10.13	130.76	119.92
3	D	1383	ASP	C-N-CA	10.13	130.76	119.92
3	N	1383	ASP	CA-C-N	10.08	130.71	119.92
3	N	1383	ASP	C-N-CA	10.08	130.71	119.92
1	B	171	PHE	N-CA-C	10.07	124.20	112.72
2	C	726	ILE	CA-C-N	9.90	132.22	119.84
2	C	726	ILE	C-N-CA	9.90	132.22	119.84
4	O	49	GLN	N-CA-C	9.87	124.63	112.59
2	C	6	PHE	N-CA-C	9.82	123.38	111.40
2	M	423	ALA	N-CA-C	9.79	126.06	112.45
5	P	91	VAL	CA-C-N	-9.67	110.83	120.31
5	P	91	VAL	C-N-CA	-9.67	110.83	120.31
2	C	423	ALA	N-CA-C	9.58	123.60	111.24
2	C	230	ARG	CA-C-N	9.52	131.74	119.84
2	C	230	ARG	C-N-CA	9.52	131.74	119.84
2	M	726	ILE	CA-C-N	9.50	131.72	119.84
2	M	726	ILE	C-N-CA	9.50	131.72	119.84
2	M	728	HIS	N-CA-C	9.49	124.98	113.12
3	D	186	VAL	N-CA-C	9.40	120.20	111.45
2	M	6	PHE	N-CA-C	9.37	123.32	111.24
3	D	1213	ARG	CA-C-N	-9.28	111.30	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1213	ARG	C-N-CA	-9.28	111.30	120.21
5	F	296	GLY	CA-C-N	9.25	131.41	119.84
5	F	296	GLY	C-N-CA	9.25	131.41	119.84
3	N	186	VAL	N-CA-C	9.25	120.06	111.45
3	D	705	ALA	CA-C-N	-9.22	108.81	120.79
3	D	705	ALA	C-N-CA	-9.22	108.81	120.79
3	N	1209	LEU	N-CA-C	-9.21	95.48	109.94
5	F	91	VAL	CA-C-N	-9.17	111.33	120.31
5	F	91	VAL	C-N-CA	-9.17	111.33	120.31
2	C	728	HIS	N-CA-C	9.16	124.90	112.90
1	A	105	GLY	CA-C-N	9.05	131.15	119.84
1	A	105	GLY	C-N-CA	9.05	131.15	119.84
3	D	1209	LEU	N-CA-C	-9.00	95.81	109.94
2	M	1078	GLU	CA-C-N	9.00	131.09	119.84
2	M	1078	GLU	C-N-CA	9.00	131.09	119.84
2	M	230	ARG	CA-C-N	8.99	131.08	119.84
2	M	230	ARG	C-N-CA	8.99	131.08	119.84
1	B	105	GLY	CA-C-N	8.98	131.07	119.84
1	B	105	GLY	C-N-CA	8.98	131.07	119.84
3	N	172	PRO	CA-C-N	8.97	131.06	119.84
3	N	172	PRO	C-N-CA	8.97	131.06	119.84
4	E	49	GLN	N-CA-C	8.89	124.36	112.88
3	N	1213	ARG	CA-C-N	-8.86	111.71	120.21
3	N	1213	ARG	C-N-CA	-8.86	111.71	120.21
3	N	705	ALA	CA-C-N	-8.81	109.34	120.79
3	N	705	ALA	C-N-CA	-8.81	109.34	120.79
1	K	105	GLY	CA-C-N	8.80	130.84	119.84
1	K	105	GLY	C-N-CA	8.80	130.84	119.84
5	P	296	GLY	CA-C-N	8.79	130.82	119.84
5	P	296	GLY	C-N-CA	8.79	130.82	119.84
1	L	105	GLY	CA-C-N	8.73	130.76	119.84
1	L	105	GLY	C-N-CA	8.73	130.76	119.84
2	C	535	SER	N-CA-C	8.72	115.83	108.07
3	N	171	LEU	CA-C-N	8.71	129.35	120.38
3	N	171	LEU	C-N-CA	8.71	129.35	120.38
3	D	172	PRO	CA-C-N	8.57	130.56	119.84
3	D	172	PRO	C-N-CA	8.57	130.56	119.84
3	N	561	GLY	CA-C-N	-8.55	111.95	122.64
3	N	561	GLY	C-N-CA	-8.55	111.95	122.64
3	D	171	LEU	CA-C-N	8.48	129.11	120.38
3	D	171	LEU	C-N-CA	8.48	129.11	120.38
2	M	260	LEU	N-CA-C	8.41	124.15	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	80	VAL	N-CA-C	8.38	121.75	108.85
5	P	76	SER	N-CA-C	8.30	120.41	111.36
2	M	264	PRO	CA-C-N	-8.27	109.61	122.59
2	M	264	PRO	C-N-CA	-8.27	109.61	122.59
2	C	260	LEU	N-CA-C	8.25	124.18	111.56
3	N	198	ARG	CA-C-N	-8.25	110.19	122.56
3	N	198	ARG	C-N-CA	-8.25	110.19	122.56
3	D	517	VAL	N-CA-C	8.12	114.95	107.56
5	F	76	SER	N-CA-C	8.02	120.94	111.71
3	D	561	GLY	CA-C-N	-8.00	111.86	122.74
3	D	561	GLY	C-N-CA	-8.00	111.86	122.74
3	N	517	VAL	N-CA-C	7.95	114.80	107.56
2	M	165	LEU	C-N-CD	-7.94	103.13	120.60
2	C	443	THR	CA-C-N	7.91	129.73	119.84
2	C	443	THR	C-N-CA	7.91	129.73	119.84
2	C	264	PRO	CA-C-N	-7.90	110.19	122.59
2	C	264	PRO	C-N-CA	-7.90	110.19	122.59
3	D	81	THR	N-CA-C	-7.89	97.73	108.86
2	M	443	THR	CA-C-N	7.88	129.70	119.84
2	M	443	THR	C-N-CA	7.88	129.70	119.84
3	D	198	ARG	CA-C-N	-7.87	110.75	122.56
3	D	198	ARG	C-N-CA	-7.87	110.75	122.56
3	D	80	VAL	N-CA-C	7.84	121.65	108.86
2	C	1078	GLU	CA-C-N	7.83	129.62	119.84
2	C	1078	GLU	C-N-CA	7.83	129.62	119.84
3	D	532	GLY	CA-C-O	7.78	127.58	119.10
3	N	82	LYS	CA-C-N	-7.73	108.10	120.70
3	N	82	LYS	C-N-CA	-7.73	108.10	120.70
2	M	243	ARG	CA-C-N	7.67	129.43	119.84
2	M	243	ARG	C-N-CA	7.67	129.43	119.84
3	D	187	LYS	N-CA-C	7.67	119.54	111.03
3	N	199	LEU	N-CA-C	7.65	122.61	112.13
3	N	198	ARG	N-CA-C	7.61	122.76	113.17
3	D	199	LEU	N-CA-C	7.60	122.55	112.13
4	E	43	GLU	N-CA-C	7.55	119.42	111.03
3	N	187	LYS	N-CA-C	7.55	119.41	111.03
3	N	380	GLU	N-CA-C	-7.53	96.25	109.06
3	D	218	LYS	N-CA-C	7.50	120.47	110.88
2	C	317	VAL	CA-C-N	-7.40	111.14	119.28
2	C	317	VAL	C-N-CA	-7.40	111.14	119.28
2	M	317	VAL	CA-C-N	-7.38	111.17	119.28
2	M	317	VAL	C-N-CA	-7.38	111.17	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1110	ALA	N-CA-C	-7.37	97.81	109.23
3	N	1127	GLU	N-CA-C	-7.37	101.58	111.96
3	D	1109	GLU	N-CA-C	7.36	118.31	108.38
2	M	365	ASP	N-CA-C	7.35	119.29	111.28
2	C	39	ARG	N-CA-C	7.35	119.37	111.36
3	D	1285	GLU	N-CA-C	7.32	122.62	112.45
3	D	209	ARG	N-CA-C	7.28	126.30	110.80
3	D	380	GLU	N-CA-C	-7.26	96.72	109.06
4	O	43	GLU	N-CA-C	7.25	119.08	111.03
3	N	209	ARG	N-CA-C	7.25	126.24	110.80
3	D	198	ARG	N-CA-C	7.19	122.23	113.17
3	N	1109	GLU	N-CA-C	7.17	118.05	108.38
3	N	1110	ALA	N-CA-C	-7.17	98.12	109.23
3	D	225	LEU	CA-C-N	7.14	126.82	119.82
3	D	225	LEU	C-N-CA	7.14	126.82	119.82
2	M	449	ILE	N-CA-C	7.12	117.94	111.81
3	N	81	THR	N-CA-C	-7.12	98.53	109.14
3	N	1128	VAL	N-CA-C	-7.07	98.01	108.97
2	C	1027	PHE	N-CA-C	7.01	119.77	111.71
2	C	399	ASN	CA-C-N	6.99	128.58	119.84
2	C	399	ASN	C-N-CA	6.99	128.58	119.84
2	C	591	SER	N-CA-C	-6.93	101.58	110.53
2	C	58	ASP	CA-C-N	6.89	134.70	121.54
2	C	58	ASP	C-N-CA	6.89	134.70	121.54
2	C	243	ARG	CA-C-N	6.88	128.44	119.84
2	C	243	ARG	C-N-CA	6.88	128.44	119.84
2	M	163	ILE	N-CA-C	6.88	114.96	107.60
2	C	163	ILE	N-CA-C	6.85	114.33	107.55
2	M	1019	GLN	CA-C-N	6.85	126.88	119.90
2	M	1019	GLN	C-N-CA	6.85	126.88	119.90
2	C	365	ASP	N-CA-C	6.81	119.54	111.71
2	M	762	LYS	N-CA-C	6.79	119.31	111.02
3	D	238	PRO	N-CA-CB	6.76	110.35	103.25
3	N	143	ASN	N-CA-C	-6.76	105.56	113.88
3	D	1128	VAL	N-CA-C	-6.76	98.49	108.97
2	C	547	ILE	CA-C-N	6.74	128.27	119.84
2	C	547	ILE	C-N-CA	6.74	128.27	119.84
3	D	1125	PRO	CA-C-N	-6.74	112.85	123.23
3	D	1125	PRO	C-N-CA	-6.74	112.85	123.23
3	N	238	PRO	N-CA-CB	6.72	110.31	103.25
3	N	225	LEU	CA-C-N	6.71	126.40	119.82
3	N	225	LEU	C-N-CA	6.71	126.40	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	E	41	GLU	N-CA-C	6.70	121.33	112.35
3	N	589	ALA	CA-C-N	6.70	126.46	119.76
3	N	589	ALA	C-N-CA	6.70	126.46	119.76
2	C	762	LYS	N-CA-C	6.69	119.19	111.02
3	D	634	GLY	CA-C-N	6.67	128.18	119.84
3	D	634	GLY	C-N-CA	6.67	128.18	119.84
2	M	39	ARG	N-CA-C	6.65	119.53	111.82
3	D	143	ASN	N-CA-C	-6.62	105.74	113.88
3	D	1127	GLU	N-CA-C	-6.58	101.49	111.56
4	O	41	GLU	N-CA-C	6.58	121.17	112.35
3	D	448	GLU	N-CA-C	6.57	121.38	113.23
2	M	58	ASP	CA-C-N	6.54	134.03	121.54
2	M	58	ASP	C-N-CA	6.54	134.03	121.54
2	C	373	VAL	N-CA-C	6.54	117.32	108.17
3	D	1190	SER	CA-C-N	6.54	127.05	119.47
3	D	1190	SER	C-N-CA	6.54	127.05	119.47
3	N	486	ARG	N-CA-C	6.48	119.17	111.71
1	K	48	ILE	CA-C-N	6.46	126.64	120.31
1	K	48	ILE	C-N-CA	6.46	126.64	120.31
2	M	729	LEU	N-CA-C	6.43	124.49	110.80
3	N	950	GLY	CA-C-O	-6.42	114.47	120.57
3	N	448	GLU	N-CA-C	6.41	121.18	113.23
5	P	283	GLY	N-CA-C	-6.41	106.39	115.30
2	C	151	ASP	CA-C-N	6.41	127.85	119.84
2	C	151	ASP	C-N-CA	6.41	127.85	119.84
2	M	591	SER	N-CA-C	-6.40	102.27	110.53
2	M	261	ILE	N-CA-C	6.40	122.64	109.34
2	M	151	ASP	CA-C-N	6.39	127.82	119.84
2	M	151	ASP	C-N-CA	6.39	127.82	119.84
2	M	284	ARG	N-CA-C	6.37	119.91	109.85
3	N	1285	GLU	N-CA-C	6.37	121.17	113.41
3	D	532	GLY	N-CA-C	-6.36	106.94	115.21
3	N	798	GLU	N-CA-C	6.35	120.67	111.02
3	D	1287	GLU	N-CA-C	6.34	118.76	111.02
2	M	265	ARG	N-CA-C	6.33	119.33	109.52
3	N	10	ILE	CB-CA-C	-6.33	102.92	111.15
5	P	287	THR	N-CA-C	-6.31	102.20	110.53
2	C	58	ASP	N-CA-C	6.28	119.81	108.69
2	C	810	ASP	CA-C-N	6.28	127.69	119.84
2	C	810	ASP	C-N-CA	6.28	127.69	119.84
2	C	169	GLY	CA-C-N	6.28	127.69	119.84
2	C	169	GLY	C-N-CA	6.28	127.69	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	76	CYS	CA-CB-SG	6.28	128.84	114.40
3	N	1120	VAL	CA-C-N	6.27	126.49	119.90
3	N	1120	VAL	C-N-CA	6.27	126.49	119.90
3	D	1317	ASP	CA-C-N	6.27	130.22	120.75
3	D	1317	ASP	C-N-CA	6.27	130.22	120.75
2	C	1057	SER	CA-C-N	-6.24	112.44	122.24
2	C	1057	SER	C-N-CA	-6.24	112.44	122.24
3	N	1476	THR	N-CA-C	-6.24	105.16	112.89
3	D	1476	THR	N-CA-C	-6.23	105.17	112.89
3	N	1440	PHE	N-CA-C	6.22	120.66	112.13
2	M	416	GLY	N-CA-C	-6.21	107.30	114.69
3	N	80	VAL	CA-C-N	6.21	132.30	122.36
3	N	80	VAL	C-N-CA	6.21	132.30	122.36
1	A	48	ILE	N-CA-C	6.21	115.79	108.96
5	F	283	GLY	N-CA-C	-6.21	106.67	115.30
3	N	108	VAL	CA-C-N	-6.19	112.74	120.79
3	N	108	VAL	C-N-CA	-6.19	112.74	120.79
2	C	261	ILE	N-CA-C	6.19	122.22	109.34
2	C	449	ILE	N-CA-C	6.19	117.13	111.81
3	D	533	GLY	N-CA-C	-6.18	105.87	116.01
1	B	171	PHE	O-C-N	-6.18	114.75	122.35
2	C	284	ARG	N-CA-C	6.17	119.60	109.85
2	M	318	PRO	N-CA-C	-6.14	105.36	113.65
3	D	208	PRO	CA-N-CD	-6.14	103.41	112.00
1	K	91	ASN	N-CA-C	6.12	115.35	108.25
2	M	547	ILE	CA-C-N	6.12	127.49	119.84
2	M	547	ILE	C-N-CA	6.12	127.49	119.84
2	C	318	PRO	CA-C-N	6.12	132.53	120.84
2	C	318	PRO	C-N-CA	6.12	132.53	120.84
1	B	2	LEU	N-CA-C	6.11	120.54	112.72
2	C	253	ALA	N-CA-C	6.09	117.79	111.03
3	N	824	ASN	N-CA-C	6.08	118.82	111.40
3	D	248	PRO	N-CA-CB	6.05	109.53	102.76
5	F	285	GLU	CA-C-N	6.04	127.39	119.84
5	F	285	GLU	C-N-CA	6.04	127.39	119.84
3	N	248	PRO	N-CA-CB	6.03	109.52	102.76
2	C	729	LEU	N-CA-C	6.02	123.63	110.80
3	D	1440	PHE	N-CA-C	6.02	120.38	112.13
5	F	287	THR	N-CA-C	-6.02	102.58	110.53
2	C	938	LYS	N-CA-C	-6.01	104.81	111.36
2	M	938	LYS	N-CA-C	-6.01	104.81	111.36
3	D	798	GLU	N-CA-C	6.00	120.14	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	414	GLY	CA-C-N	5.98	127.32	119.84
2	C	414	GLY	C-N-CA	5.98	127.32	119.84
2	M	213	ALA	N-CA-C	-5.97	104.85	111.36
3	N	51	GLY	CA-C-N	5.97	125.73	119.76
3	N	51	GLY	C-N-CA	5.97	125.73	119.76
3	N	53	ILE	CB-CA-C	-5.97	106.64	111.71
3	D	80	VAL	CA-C-N	5.97	132.14	122.53
3	D	80	VAL	C-N-CA	5.97	132.14	122.53
4	E	80	VAL	CA-C-N	5.96	127.29	119.84
4	E	80	VAL	C-N-CA	5.96	127.29	119.84
1	L	2	LEU	N-CA-C	5.96	120.35	112.72
3	D	593	ASN	CA-C-N	5.95	127.28	119.84
3	D	593	ASN	C-N-CA	5.95	127.28	119.84
3	N	379	ALA	N-CA-C	-5.95	104.48	110.97
2	C	318	PRO	N-CA-C	-5.95	105.62	113.65
3	D	486	ARG	N-CA-C	5.94	119.63	112.38
5	P	285	GLU	CA-C-N	5.93	127.25	119.84
5	P	285	GLU	C-N-CA	5.93	127.25	119.84
2	M	58	ASP	N-CA-C	5.92	119.17	108.69
5	P	340	SER	CA-C-N	5.92	127.24	119.84
5	P	340	SER	C-N-CA	5.92	127.24	119.84
4	E	41	GLU	CA-C-N	5.92	127.23	119.84
4	E	41	GLU	C-N-CA	5.92	127.23	119.84
3	N	593	ASN	CA-C-N	5.91	127.22	119.84
3	N	593	ASN	C-N-CA	5.91	127.22	119.84
3	N	1126	ASP	N-CA-C	5.91	118.84	108.56
1	A	47	SER	N-CA-C	5.89	118.94	111.69
2	C	265	ARG	N-CA-C	5.89	118.65	109.52
3	N	208	PRO	CA-C-N	5.87	132.75	121.54
3	N	208	PRO	C-N-CA	5.87	132.75	121.54
2	C	1118	LYS	N-CA-C	5.87	119.39	109.76
3	D	1120	VAL	CA-C-N	5.86	126.05	119.90
3	D	1120	VAL	C-N-CA	5.86	126.05	119.90
3	D	617	ASN	N-CA-C	-5.85	104.91	111.28
3	N	1116	ASN	N-CA-C	-5.84	98.89	108.41
2	M	373	VAL	N-CA-C	5.83	116.99	108.53
3	N	749	VAL	N-CA-C	5.82	114.54	107.61
2	M	165	LEU	CA-C-N	5.82	140.96	127.00
2	M	165	LEU	C-N-CA	5.82	140.96	127.00
3	N	1109	GLU	CA-C-N	5.81	131.87	122.29
3	N	1109	GLU	C-N-CA	5.81	131.87	122.29
2	C	165	LEU	CA-C-N	5.80	140.91	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	165	LEU	C-N-CA	5.80	140.91	127.00
2	C	416	GLY	N-CA-C	-5.79	107.80	114.69
4	O	80	VAL	CA-C-N	5.77	127.05	119.84
4	O	80	VAL	C-N-CA	5.77	127.05	119.84
2	M	169	GLY	CA-C-N	5.76	127.04	119.84
2	M	169	GLY	C-N-CA	5.76	127.04	119.84
4	E	51	LEU	N-CA-C	-5.76	100.28	108.23
3	D	208	PRO	CA-C-N	5.75	132.53	121.54
3	D	208	PRO	C-N-CA	5.75	132.53	121.54
1	K	47	SER	N-CA-C	5.74	118.75	111.69
3	N	1328	GLY	N-CA-C	5.74	117.18	111.21
2	M	318	PRO	CA-C-N	5.72	131.78	120.84
2	M	318	PRO	C-N-CA	5.72	131.78	120.84
2	C	761	PHE	CA-C-N	5.72	128.74	120.79
2	C	761	PHE	C-N-CA	5.72	128.74	120.79
3	D	1109	GLU	CA-C-N	5.71	131.71	122.29
3	D	1109	GLU	C-N-CA	5.71	131.71	122.29
3	D	1328	GLY	N-CA-C	5.71	117.15	111.21
3	N	1317	ASP	CA-C-N	5.71	129.38	120.75
3	N	1317	ASP	C-N-CA	5.71	129.38	120.75
3	D	1116	ASN	N-CA-C	-5.71	99.10	108.41
2	M	423	ALA	CA-C-O	-5.70	113.04	120.00
3	N	28	LYS	CA-C-N	5.70	126.97	119.84
3	N	28	LYS	C-N-CA	5.70	126.97	119.84
3	D	824	ASN	N-CA-C	5.69	118.35	111.40
1	L	171	PHE	CA-C-N	-5.69	111.95	121.17
1	L	171	PHE	C-N-CA	-5.69	111.95	121.17
5	P	323	ASP	N-CA-C	-5.69	101.43	109.96
3	N	208	PRO	CA-N-CD	-5.67	104.06	112.00
3	D	81	THR	CA-C-O	-5.67	115.11	121.40
1	A	2	LEU	N-CA-C	5.66	119.96	112.72
2	M	608	GLY	N-CA-C	-5.65	105.96	115.62
2	M	1027	PHE	N-CA-C	5.65	118.98	111.75
3	D	915	VAL	CB-CA-C	-5.65	104.47	111.70
3	D	1208	ASP	N-CA-C	5.62	122.77	110.80
4	E	57	ASP	CA-C-N	-5.62	112.81	119.84
4	E	57	ASP	C-N-CA	-5.62	112.81	119.84
1	K	91	ASN	CA-C-N	5.62	126.86	119.84
1	K	91	ASN	C-N-CA	5.62	126.86	119.84
3	N	218	LYS	N-CA-C	5.62	118.07	110.88
2	M	810	ASP	CA-C-N	5.61	126.85	119.84
2	M	810	ASP	C-N-CA	5.61	126.85	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	O	51	LEU	N-CA-C	-5.60	100.50	108.23
3	D	1469	GLY	N-CA-C	-5.60	106.45	115.08
3	D	1472	ILE	CA-C-N	5.60	125.44	119.28
3	D	1472	ILE	C-N-CA	5.60	125.44	119.28
3	D	226	PRO	N-CA-CB	5.60	108.84	103.52
1	L	91	ASN	N-CA-C	5.59	114.73	108.25
2	M	469	THR	N-CA-C	5.59	113.25	108.22
1	A	91	ASN	CA-C-N	5.59	126.82	119.84
1	A	91	ASN	C-N-CA	5.59	126.82	119.84
2	C	213	ALA	N-CA-C	-5.58	105.27	111.36
2	M	398	THR	N-CA-C	-5.58	105.20	111.28
1	B	91	ASN	N-CA-C	5.58	114.72	108.25
2	C	191	PHE	CA-C-O	-5.57	115.87	120.71
2	M	253	ALA	N-CA-C	5.56	117.20	111.03
3	N	634	GLY	CA-C-N	5.56	126.79	119.84
3	N	634	GLY	C-N-CA	5.56	126.79	119.84
1	L	91	ASN	CA-C-N	5.56	126.79	119.84
1	L	91	ASN	C-N-CA	5.56	126.79	119.84
3	D	199	LEU	CA-CB-CG	-5.55	96.89	116.30
2	C	141	HIS	N-CA-C	5.53	115.67	107.88
1	A	171	PHE	CA-C-O	-5.52	113.17	119.41
5	F	340	SER	CA-C-N	5.51	126.73	119.84
5	F	340	SER	C-N-CA	5.51	126.73	119.84
3	N	1379	VAL	N-CA-C	5.51	115.57	107.75
3	D	811	GLU	N-CA-C	-5.51	106.56	113.28
5	F	323	ASP	N-CA-C	-5.50	101.72	109.96
3	D	379	ALA	N-CA-C	-5.49	104.99	110.97
3	N	786	ILE	CB-CA-C	-5.49	104.95	111.81
4	E	50	THR	CA-C-N	5.48	132.70	121.95
4	E	50	THR	C-N-CA	5.48	132.70	121.95
3	D	1344	VAL	CB-CA-C	-5.47	104.97	111.81
3	N	199	LEU	CA-CB-CG	-5.47	97.16	116.30
2	M	535	SER	CA-C-N	5.46	125.13	119.56
2	M	535	SER	C-N-CA	5.46	125.13	119.56
3	N	1119	SER	CA-C-N	-5.46	118.66	122.59
3	N	1119	SER	C-N-CA	-5.46	118.66	122.59
2	M	291	ALA	N-CA-C	5.45	118.33	109.06
3	N	525	ARG	CA-C-N	5.45	126.65	119.84
3	N	525	ARG	C-N-CA	5.45	126.65	119.84
3	N	1460	ILE	N-CA-C	-5.45	101.16	108.35
3	D	108	VAL	CA-C-N	-5.43	113.06	119.84
3	D	108	VAL	C-N-CA	-5.43	113.06	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1287	GLU	N-CA-C	5.41	117.62	111.02
3	D	1460	ILE	N-CA-C	-5.40	101.22	108.35
3	D	133	ILE	N-CA-C	5.39	116.53	109.58
5	P	313	GLU	CA-C-N	-5.39	113.10	119.84
5	P	313	GLU	C-N-CA	-5.39	113.10	119.84
2	C	398	THR	N-CA-C	-5.39	105.41	111.28
1	L	47	SER	N-CA-C	5.39	118.32	111.69
3	N	811	GLU	N-CA-C	-5.38	106.22	112.89
1	B	47	SER	N-CA-C	5.37	117.95	111.40
3	N	373	PRO	N-CA-CB	5.36	108.88	103.25
3	D	246	PRO	N-CA-CB	5.36	108.88	103.25
2	C	730	SER	N-CA-C	5.35	117.20	109.07
2	M	808	ARG	N-CA-C	5.34	120.14	111.37
3	D	28	LYS	CA-C-N	5.33	126.50	119.84
3	D	28	LYS	C-N-CA	5.33	126.50	119.84
2	M	728	HIS	CA-C-N	-5.32	111.37	121.54
2	M	728	HIS	C-N-CA	-5.32	111.37	121.54
2	M	730	SER	N-CA-C	5.32	117.16	109.07
2	M	1057	SER	CA-C-N	-5.32	113.89	122.24
2	M	1057	SER	C-N-CA	-5.32	113.89	122.24
3	N	1331	ASP	CA-C-N	5.31	126.48	119.84
3	N	1331	ASP	C-N-CA	5.31	126.48	119.84
3	N	1389	LEU	CA-CB-CG	5.31	134.89	116.30
3	D	1065	LEU	N-CA-C	-5.31	101.50	109.15
3	N	1469	GLY	N-CA-C	-5.31	106.91	115.08
3	N	1065	LEU	N-CA-C	-5.30	101.52	109.15
2	C	143	SER	CA-C-N	5.29	126.45	119.84
2	C	143	SER	C-N-CA	5.29	126.45	119.84
2	M	1104	GLU	N-CA-C	-5.28	105.21	110.97
3	D	406	ASP	N-CA-C	5.28	119.28	113.21
2	M	141	HIS	N-CA-C	5.28	115.32	107.88
3	N	226	PRO	N-CA-CB	5.28	108.53	103.52
2	C	535	SER	CA-C-N	-5.27	114.24	119.56
2	C	535	SER	C-N-CA	-5.27	114.24	119.56
3	D	589	ALA	CA-C-N	5.27	125.17	119.85
3	D	589	ALA	C-N-CA	5.27	125.17	119.85
2	C	7	GLY	N-CA-C	5.26	118.70	111.54
2	M	728	HIS	CA-C-O	-5.26	113.42	119.78
3	N	18	ILE	CB-CA-C	-5.26	105.23	111.97
1	B	91	ASN	CA-C-N	5.25	126.41	119.84
1	B	91	ASN	C-N-CA	5.25	126.41	119.84
2	C	728	HIS	CA-C-N	-5.25	111.51	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	728	HIS	C-N-CA	-5.25	111.51	121.54
3	N	1472	ILE	CA-C-N	5.25	125.06	119.28
3	N	1472	ILE	C-N-CA	5.25	125.06	119.28
2	M	1056	LYS	CA-C-N	-5.25	111.52	121.54
2	M	1056	LYS	C-N-CA	-5.25	111.52	121.54
2	C	685	GLU	N-CA-C	-5.24	105.71	112.68
2	M	243	ARG	N-CA-C	5.24	121.39	109.81
2	M	1017	THR	CA-C-N	-5.24	113.96	122.65
2	M	1017	THR	C-N-CA	-5.24	113.96	122.65
4	O	50	THR	CA-C-N	5.22	132.19	121.95
4	O	50	THR	C-N-CA	5.22	132.19	121.95
1	K	2	LEU	N-CA-C	5.22	119.40	112.72
4	O	41	GLU	CA-C-N	5.22	126.36	119.84
4	O	41	GLU	C-N-CA	5.22	126.36	119.84
3	N	81	THR	CA-C-O	-5.22	115.67	121.51
1	A	59	GLU	N-CA-C	5.21	117.04	111.36
2	M	319	GLY	CA-C-O	-5.21	116.55	121.60
3	N	378	ILE	N-CA-C	5.20	120.16	109.34
3	N	133	ILE	N-CA-C	5.19	116.28	109.58
4	O	93	TYR	CA-C-N	5.19	126.33	119.84
4	O	93	TYR	C-N-CA	5.19	126.33	119.84
3	N	951	ILE	N-CA-C	-5.19	104.70	110.62
3	D	1281	VAL	N-CA-C	5.16	116.97	108.97
2	C	506	ASN	N-CA-C	-5.16	107.03	113.38
2	M	414	GLY	CA-C-N	5.15	126.28	119.84
2	M	414	GLY	C-N-CA	5.15	126.28	119.84
3	D	517	VAL	CB-CA-C	-5.13	105.00	110.95
5	F	88	ILE	CB-CA-C	-5.13	105.14	112.22
2	C	728	HIS	CA-C-O	-5.12	113.61	119.60
2	M	879	ARG	CA-C-N	-5.11	115.37	123.24
2	M	879	ARG	C-N-CA	-5.11	115.37	123.24
2	C	291	ALA	N-CA-C	5.10	117.72	109.06
2	C	679	PHE	CA-C-O	-5.09	115.14	121.55
3	N	199	LEU	CA-C-N	-5.08	114.42	121.99
3	N	199	LEU	C-N-CA	-5.08	114.42	121.99
2	M	761	PHE	CA-C-N	5.08	127.85	120.79
2	M	761	PHE	C-N-CA	5.08	127.85	120.79
3	D	422	ALA	CA-C-N	5.07	127.39	120.54
3	D	422	ALA	C-N-CA	5.07	127.39	120.54
3	N	1281	VAL	N-CA-C	5.06	116.81	108.97
2	C	879	ARG	N-CA-C	-5.06	103.85	110.53
3	N	726	ILE	CB-CA-C	-5.05	103.58	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	592	THR	N-CA-C	-5.05	103.38	110.50
2	C	1019	GLN	CA-C-N	5.05	126.15	119.84
2	C	1019	GLN	C-N-CA	5.05	126.15	119.84
3	D	526	PRO	CA-C-N	5.05	130.03	122.86
3	D	526	PRO	C-N-CA	5.05	130.03	122.86
3	D	373	PRO	N-CA-CB	5.05	108.55	103.25
3	N	164	GLY	CA-C-O	-5.04	117.01	122.05
2	C	243	ARG	N-CA-C	5.04	120.95	109.81
3	N	805	GLU	N-CA-C	5.04	121.54	110.80
3	N	422	ALA	CA-C-N	5.04	127.34	120.54
3	N	422	ALA	C-N-CA	5.04	127.34	120.54
3	D	396	VAL	N-CA-C	5.04	116.50	109.55
3	N	132	TYR	CA-CB-CG	-5.04	104.84	113.90
3	D	164	GLY	N-CA-C	-5.03	104.88	111.37
2	M	267	TYR	CA-CB-CG	5.03	122.95	113.90
2	M	1118	LYS	N-CA-C	5.02	118.40	109.96
1	K	171	PHE	N-CA-C	5.02	119.40	113.28
3	N	1092	GLY	N-CA-C	-5.02	106.71	112.73
2	C	32	ALA	N-CA-C	5.01	117.47	111.71
2	C	808	ARG	N-CA-C	5.01	119.59	111.37
3	N	246	PRO	N-CA-CB	5.01	108.51	103.25
3	D	201	GLY	N-CA-C	-5.00	101.11	110.77

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	1806	0	1861	240	0
1	B	1806	0	1861	214	0
1	K	1806	0	1861	181	0
1	L	1806	0	1861	207	0
2	C	8829	0	8933	1233	0
2	M	8829	0	8933	1179	0
3	D	10728	0	10809	1475	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	N	10728	0	10809	1345	0
4	E	769	0	775	89	0
4	O	769	0	775	119	0
5	F	2771	0	2844	373	0
5	P	2771	0	2844	341	0
6	D	43	0	31	4	0
6	N	43	0	31	6	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
9	A	232	0	0	42	0
9	B	304	0	0	55	0
9	C	1144	0	0	276	0
9	D	1546	0	0	314	0
9	E	130	0	0	20	0
9	F	491	0	0	108	0
9	K	229	0	0	34	0
9	L	274	0	0	52	0
9	M	1072	0	0	227	0
9	N	1392	0	0	263	0
9	O	137	0	0	27	0
9	P	447	0	0	72	0
All	All	60908	0	54228	6581	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 61.

All (6581) 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)
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.30	1.08
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.09	1.06
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.36	1.05
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.22	1.05
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.38	1.03
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.41	1.03
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.39	1.02
2:C:630:ARG:HE	2:C:705:ILE:HB	1.24	1.02
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.39	1.02
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:363:GLU:HA	5:F:367:MET:HE3	1.38	1.01
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.38	1.01
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.22	1.00
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.42	0.99
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.45	0.99
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.46	0.98
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.43	0.98
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.26	0.97
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.46	0.97
1:A:68:ILE:HD13	1:A:138:LEU:HD11	1.46	0.97
3:D:1412:LYS:HA	9:D:9761:HOH:O	1.65	0.97
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.46	0.97
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.45	0.97
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.29	0.97
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.46	0.96
2:C:126:SER:HB3	2:C:407:LYS:HE2	1.47	0.96
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.31	0.95
2:C:1016:ILE:HD11	5:F:330:GLY:HA3	1.49	0.95
3:N:676:MET:HE1	3:N:684:LYS:HD2	1.49	0.95
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.49	0.95
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.32	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.46	0.95
2:M:154:ARG:HH21	2:M:156:GLY:HA3	1.31	0.94
2:M:626:ARG:HB2	2:M:639:GLN:HE22	1.31	0.94
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.31	0.94
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.50	0.94
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.49	0.94
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.47	0.93
2:M:1102:LEU:HB2	3:N:7:LYS:HG3	1.50	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.49	0.93
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.49	0.93
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.50	0.93
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.34	0.93
3:D:1124:GLN:HE21	3:D:1135:ARG:HG2	1.32	0.93
2:M:412:ALA:CB	2:M:451:LEU:HB3	1.99	0.92
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.49	0.92
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.51	0.92
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.52	0.92
3:N:141:ILE:HG12	3:N:449:SER:HA	1.51	0.92
3:N:65:ARG:HG3	3:N:66:GLN:H	1.31	0.92
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.52	0.92
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.08	0.91
3:N:658:LEU:HA	3:N:661:MET:HE3	1.53	0.91
2:M:172:ILE:HG23	2:M:184:MET:HE3	1.50	0.91
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.52	0.91
1:K:219:ARG:HH22	1:L:223:THR:HG22	1.35	0.91
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.50	0.91
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.34	0.91
2:C:979:THR:HG23	2:C:981:GLU:H	1.36	0.91
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.52	0.91
3:D:119:SER:HB2	3:D:123:LEU:H	1.34	0.90
3:N:41:ARG:HD3	3:N:43:GLY:H	1.36	0.90
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.52	0.90
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.53	0.90
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.36	0.90
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.53	0.90
3:N:978:TYR:HA	9:N:2283:HOH:O	1.70	0.90
2:M:196:LEU:HD23	2:M:200:LEU:HD11	1.54	0.89
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.52	0.89
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.52	0.89
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.52	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.54	0.89
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.54	0.89
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.55	0.89
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.36	0.89
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	1.55	0.88
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.36	0.88
2:M:979:THR:HG23	2:M:981:GLU:H	1.38	0.88
2:C:439:CYS:HB3	2:C:442:GLU:HB2	1.54	0.88
2:M:905:ILE:H	2:M:905:ILE:HD12	1.37	0.88
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.56	0.87
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.57	0.87
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.53	0.87
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.57	0.87
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.57	0.87
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.55	0.86
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.39	0.86
3:D:131:LYS:HB3	3:D:456:MET:HE3	1.58	0.86
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.57	0.86
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.56	0.86
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:62:THR:HA	4:O:65:MET:HE3	1.57	0.86
2:C:305:PRO:HB3	2:C:308:ARG:HH21	1.38	0.86
1:K:67:THR:H	2:M:627:ARG:NH2	1.73	0.86
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.58	0.86
3:D:598:ARG:NH1	5:F:319:THR:HA	1.91	0.86
3:D:1311:LEU:HA	9:D:9040:HOH:O	1.76	0.86
3:N:119:SER:HB2	3:N:123:LEU:H	1.41	0.86
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.58	0.86
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.41	0.86
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.55	0.85
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.55	0.85
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.91	0.85
3:D:973:GLN:HA	9:D:2386:HOH:O	1.76	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.58	0.85
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.58	0.85
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.58	0.85
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.57	0.85
2:C:818:GLY:HA3	9:C:1150:HOH:O	1.77	0.85
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.56	0.85
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.57	0.85
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.57	0.85
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.57	0.85
2:M:412:ALA:HB2	2:M:451:LEU:HB3	1.57	0.85
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.56	0.85
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.58	0.85
2:M:409:ARG:HA	2:M:454:SER:HA	1.59	0.84
2:M:573:ARG:NH2	2:M:697:ARG:HB2	1.92	0.84
2:M:573:ARG:HH21	2:M:697:ARG:HB2	1.42	0.84
3:N:973:GLN:HA	3:N:976:GLN:HE21	1.42	0.84
2:C:41:ASN:HD22	2:C:41:ASN:H	1.22	0.84
3:D:86:ARG:O	3:D:522:PRO:HD2	1.77	0.84
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.59	0.84
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.57	0.84
2:M:860:HIS:HB2	9:M:1390:HOH:O	1.75	0.84
2:M:964:LYS:O	2:M:968:LEU:HG	1.77	0.84
5:F:361:LEU:HD23	5:F:362:SER:H	1.43	0.84
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.92	0.84
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.59	0.84
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.60	0.84
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.60	0.84
2:C:721:ARG:HH21	2:C:783:ARG:HH21	1.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.60	0.84
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.57	0.84
2:C:436:GLY:HA2	2:C:538:GLN:O	1.77	0.84
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.40	0.83
2:C:651:LYS:HA	9:C:1155:HOH:O	1.79	0.83
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.58	0.83
2:M:689:VAL:HB	2:M:870:ILE:HG13	1.60	0.83
9:C:1150:HOH:O	3:D:532:GLY:HA2	1.77	0.83
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.61	0.83
3:D:1495:ILE:HD11	9:E:161:HOH:O	1.77	0.83
3:D:397:LYS:HG2	9:D:9673:HOH:O	1.79	0.83
5:P:133:ALA:HA	9:P:4452:HOH:O	1.79	0.83
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.61	0.83
2:C:804:VAL:HG23	2:C:824:ARG:HB2	1.58	0.83
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.43	0.83
2:M:22:GLN:NE2	2:M:336:VAL:HG21	1.93	0.83
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.58	0.83
2:C:350:ARG:HB3	2:C:350:ARG:HH11	1.42	0.83
2:C:943:VAL:HG23	2:C:985:GLY:H	1.42	0.83
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.61	0.83
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.60	0.83
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.78	0.83
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.59	0.82
3:N:1210:SER:HA	9:N:9085:HOH:O	1.78	0.82
2:C:244:PRO:HD2	2:C:245:GLY:H	1.44	0.82
2:C:671:ASN:N	2:C:671:ASN:HD22	1.78	0.82
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.43	0.82
3:D:527:MET:HE2	5:F:258:ILE:HD11	1.60	0.82
2:M:1018:GLN:HE21	2:M:1060:ILE:HD11	1.44	0.82
2:M:715:THR:HB	2:M:717:LEU:HG	1.61	0.82
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.59	0.82
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.59	0.82
2:M:428:ARG:NH1	6:N:8002:STD:H292	1.94	0.82
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.59	0.82
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.62	0.82
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.43	0.82
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.62	0.82
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.60	0.82
1:B:74:ASP:HB3	9:B:475:HOH:O	1.77	0.82
1:B:185:ARG:HA	9:B:592:HOH:O	1.78	0.82
3:N:704:ARG:HD2	3:N:705:ALA:H	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:720:LEU:H	3:D:720:LEU:HD12	1.45	0.82
2:C:847:GLY:HA2	9:C:1260:HOH:O	1.79	0.81
2:M:227:PHE:HA	2:M:230:ARG:HE	1.43	0.81
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.61	0.81
3:D:759:ALA:HA	3:D:763:MET:HE2	1.62	0.81
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.60	0.81
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.62	0.81
3:N:699:VAL:H	3:N:756:GLN:NE2	1.77	0.81
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.63	0.81
2:C:1054:THR:HG23	2:C:1082:PRO:HG3	1.60	0.81
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.62	0.81
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.63	0.81
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.63	0.81
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.94	0.81
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.62	0.81
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.63	0.81
2:M:1005:MET:HE3	3:N:648:MET:HE3	1.61	0.81
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.63	0.81
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.62	0.81
2:C:328:LEU:HD13	2:C:433:THR:HB	1.60	0.81
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.61	0.81
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.61	0.81
3:D:149:LYS:HA	9:D:9019:HOH:O	1.81	0.80
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.62	0.80
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.62	0.80
2:C:1099:VAL:HG23	9:C:1503:HOH:O	1.81	0.80
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.63	0.80
1:B:179:PHE:HB3	1:B:197:LEU:HG	1.63	0.80
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.61	0.80
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.62	0.80
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.64	0.80
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.64	0.80
3:N:565:ILE:H	3:N:565:ILE:HD12	1.46	0.80
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.63	0.80
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.63	0.80
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.63	0.80
3:N:493:ARG:HH21	3:N:1388:ARG:HB3	1.45	0.80
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.63	0.80
3:D:572:ARG:HH12	5:F:79:ASP:CG	1.90	0.80
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	1.63	0.80
5:P:142:ARG:HB3	5:P:142:ARG:HH11	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.64	0.80
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.64	0.80
5:F:337:HIS:H	5:F:337:HIS:CD2	2.00	0.80
1:L:133:GLU:HB3	9:L:5271:HOH:O	1.81	0.80
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.47	0.80
1:B:190:THR:HA	9:B:592:HOH:O	1.82	0.79
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.64	0.79
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.62	0.79
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.64	0.79
3:D:464:LEU:HA	9:D:2108:HOH:O	1.81	0.79
3:D:1320:GLU:HG2	3:D:1339:LYS:HE2	1.63	0.79
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.64	0.79
3:N:169:TYR:H	3:N:169:TYR:HD1	1.30	0.79
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.16	0.79
1:K:88:ARG:HE	1:K:121:GLU:HG2	1.46	0.79
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.63	0.79
3:D:1234:THR:HA	9:D:9918:HOH:O	1.81	0.79
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.64	0.79
3:D:1136:LYS:HB2	9:D:2265:HOH:O	1.82	0.79
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.64	0.79
2:M:412:ALA:HA	9:M:1151:HOH:O	1.82	0.79
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.65	0.79
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.80	0.79
2:C:413:LEU:H	2:C:413:LEU:HD12	1.46	0.79
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.65	0.79
3:N:86:ARG:O	3:N:522:PRO:HD2	1.81	0.79
4:E:85:LEU:HA	9:E:161:HOH:O	1.81	0.79
2:M:650:ARG:HG2	2:M:653:ASP:HB2	1.64	0.79
3:N:1261:GLU:HG2	9:N:9222:HOH:O	1.83	0.79
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.63	0.79
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.63	0.79
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.65	0.79
2:C:750:LYS:HB2	3:D:681:ARG:HH21	1.48	0.78
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.64	0.78
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.65	0.78
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.65	0.78
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.65	0.78
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.65	0.78
2:M:943:VAL:HG23	2:M:985:GLY:H	1.48	0.78
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.64	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.82	0.78
3:D:554:LEU:HA	9:D:9564:HOH:O	1.82	0.78
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.66	0.78
1:L:206:THR:HG22	1:L:209:GLU:H	1.47	0.78
2:M:422:ARG:HA	9:M:1373:HOH:O	1.81	0.78
4:O:33:HIS:HB3	9:O:5639:HOH:O	1.81	0.78
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.63	0.78
2:M:768:THR:HB	2:M:771:GLU:HB3	1.64	0.78
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.66	0.78
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.63	0.78
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.66	0.78
3:D:101:HIS:ND1	3:D:103:TRP:HB2	1.99	0.78
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.64	0.78
2:M:752:GLY:H	2:M:792:VAL:HB	1.47	0.78
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.78
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.64	0.78
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.66	0.78
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.66	0.78
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.66	0.77
2:C:703:ILE:HG22	9:C:1760:HOH:O	1.84	0.77
4:O:93:TYR:HB2	9:O:5639:HOH:O	1.84	0.77
2:C:69:LEU:HG	9:C:1321:HOH:O	1.84	0.77
3:D:1374:GLN:HE22	3:D:1377:LYS:HD2	1.48	0.77
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.77
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.65	0.77
3:N:1314:LYS:HZ1	3:N:1317:ASP:H	1.30	0.77
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.67	0.77
3:N:1296:SER:HB3	9:N:9049:HOH:O	1.84	0.77
2:C:62:GLY:HA2	2:C:359:MET:HE1	1.67	0.77
2:C:500:ASN:HD21	3:D:1067:VAL:HG23	1.50	0.77
3:D:616:GLN:HG3	3:D:619:LEU:HB3	1.67	0.77
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.66	0.77
2:M:281:LEU:HD11	2:M:306:THR:HA	1.65	0.77
3:D:1061:PHE:HA	9:D:9012:HOH:O	1.85	0.77
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.65	0.77
5:F:76:SER:O	5:F:80:PRO:HD2	1.83	0.77
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.67	0.77
1:L:156:HIS:ND1	1:L:158:ILE:HG12	1.99	0.77
2:M:589:ARG:HH11	2:M:589:ARG:HB2	1.49	0.77
3:N:53:ILE:HG23	3:N:54:LYS:H	1.47	0.77
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.84	0.77
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.65	0.77
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.66	0.76
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.49	0.76
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.50	0.76
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.76
2:M:244:PRO:HD2	2:M:245:GLY:H	1.49	0.76
3:N:535:PHE:O	5:P:315:VAL:N	2.17	0.76
3:D:756:GLN:O	3:D:760:ARG:HG2	1.85	0.76
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.51	0.76
1:A:20:TYR:HD2	1:A:21:GLY:N	1.83	0.76
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.67	0.76
3:D:598:ARG:HH12	5:F:319:THR:HA	1.49	0.76
1:K:42:ARG:NH1	2:M:857:ASP:HB3	1.99	0.76
1:K:102:LYS:HG3	1:K:139:ASN:HB2	1.65	0.76
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.66	0.76
1:A:177:VAL:O	2:C:864:GLY:HA3	1.85	0.76
3:D:704:ARG:HB3	9:D:9490:HOH:O	1.84	0.76
1:B:13:VAL:HG23	9:B:396:HOH:O	1.85	0.76
1:L:194:LYS:HG2	9:L:6021:HOH:O	1.84	0.76
2:M:94:LEU:HD11	9:M:1826:HOH:O	1.84	0.76
2:C:626:ARG:H	2:C:639:GLN:NE2	1.83	0.76
3:D:445:ARG:HB2	3:D:445:ARG:HH11	1.50	0.76
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.66	0.76
4:O:12:MET:HG3	9:O:7062:HOH:O	1.86	0.76
2:C:21:ILE:H	2:C:21:ILE:HD12	1.49	0.76
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.68	0.76
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.68	0.76
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.66	0.76
3:N:37:LEU:HA	9:N:9522:HOH:O	1.86	0.76
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.65	0.76
1:A:14:ARG:NH2	1:A:22:GLU:HB3	1.99	0.76
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.68	0.76
2:M:1016:ILE:HD11	5:P:330:GLY:O	1.85	0.76
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.68	0.76
2:C:768:THR:HB	2:C:771:GLU:HB3	1.68	0.76
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.25	0.76
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.01	0.76
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.66	0.76
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.68	0.75
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:897:LEU:HD21	2:M:920:GLN:HE21	1.50	0.75
3:N:830:ALA:HA	9:N:2273:HOH:O	1.84	0.75
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.86	0.75
3:D:493:ARG:HH12	3:D:1389:LEU:HD12	1.51	0.75
3:D:1136:LYS:HA	9:D:9116:HOH:O	1.86	0.75
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.68	0.75
3:N:139:GLY:O	3:N:147:VAL:HB	1.86	0.75
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.65	0.75
3:N:192:ALA:O	3:N:195:VAL:HG23	1.86	0.75
1:B:102:LYS:HE3	9:B:503:HOH:O	1.86	0.75
1:K:123:MET:HG2	9:K:4125:HOH:O	1.85	0.75
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.68	0.75
3:D:1236:LEU:HD12	3:D:1256:LEU:HD13	1.69	0.75
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.67	0.75
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.87	0.75
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.68	0.75
2:C:211:LEU:HD11	2:C:308:ARG:HA	1.68	0.75
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.69	0.75
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.68	0.75
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.69	0.75
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.01	0.75
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.67	0.75
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.87	0.75
1:K:67:THR:H	2:M:627:ARG:HH21	1.32	0.75
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.68	0.75
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.67	0.75
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.69	0.75
1:L:103:ALA:HB1	1:L:107:LYS:HE3	1.69	0.75
2:M:837:ASP:HB2	9:M:1208:HOH:O	1.86	0.75
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.68	0.74
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.68	0.74
2:M:397:GLU:H	2:M:633:GLN:NE2	1.84	0.74
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.86	0.74
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.50	0.74
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.87	0.74
3:D:1236:LEU:HD23	3:D:1359:GLN:HE21	1.49	0.74
2:M:96:ALA:HB2	9:M:1826:HOH:O	1.86	0.74
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.69	0.74
3:N:41:ARG:CZ	3:N:42:ASP:HB2	2.18	0.74
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.51	0.74
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.88	0.74
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.69	0.74
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.69	0.74
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.34	0.74
4:E:88:GLU:HB2	9:E:161:HOH:O	1.85	0.74
2:M:410:ILE:O	2:M:452:ILE:HA	1.88	0.74
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.69	0.74
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.70	0.74
3:D:808:THR:HB	3:D:809:PRO:HD3	1.69	0.74
5:P:270:LYS:HA	5:P:273:ARG:HD2	1.69	0.74
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.03	0.74
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.23	0.74
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.70	0.74
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.69	0.74
5:F:191:ASN:HB2	9:F:598:HOH:O	1.86	0.74
2:M:423:ALA:HB1	9:M:1180:HOH:O	1.86	0.74
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.68	0.74
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.70	0.74
2:C:705:ILE:HG13	9:C:1760:HOH:O	1.87	0.74
3:D:210:ARG:HB3	3:D:210:ARG:HH11	1.53	0.74
3:D:1127:GLU:HG3	9:D:9015:HOH:O	1.87	0.74
3:N:13:ALA:HA	9:N:9038:HOH:O	1.87	0.74
3:N:903:ASP:HA	9:N:9909:HOH:O	1.87	0.74
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.69	0.74
3:D:530:VAL:HA	9:D:2446:HOH:O	1.87	0.74
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.53	0.74
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.70	0.74
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.51	0.73
2:C:322:VAL:HA	9:C:1224:HOH:O	1.88	0.73
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.70	0.73
2:C:41:ASN:HD22	2:C:41:ASN:N	1.86	0.73
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.88	0.73
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.70	0.73
3:D:465:LEU:HD22	9:D:9443:HOH:O	1.89	0.73
5:P:269:ASN:HB3	5:P:273:ARG:HE	1.50	0.73
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.70	0.73
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.69	0.73
9:D:9529:HOH:O	4:E:61:GLU:HG2	1.87	0.73
3:N:131:LYS:HG3	3:N:572:ARG:HH21	1.54	0.73
1:B:199:ILE:HD11	1:B:211:LEU:HD13	1.70	0.73
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:945:ARG:HG3	2:C:946:ARG:N	2.04	0.73
3:D:775:GLY:HA2	9:D:9258:HOH:O	1.87	0.73
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.88	0.73
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.70	0.73
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.51	0.73
3:D:461:ILE:HG22	9:D:9464:HOH:O	1.89	0.73
3:D:679:ARG:HB2	3:D:682:ASP:OD1	1.89	0.73
3:D:1374:GLN:HE21	3:D:1374:GLN:HA	1.54	0.73
4:E:87:LYS:HZ3	4:E:91:ARG:HE	1.37	0.73
2:M:1090:LYS:HE3	3:N:90:MET:HG2	1.68	0.73
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.70	0.73
2:C:616:GLU:HG3	9:C:1986:HOH:O	1.88	0.73
2:M:164:PRO:HA	9:M:1138:HOH:O	1.88	0.73
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.69	0.73
2:M:1016:ILE:H	2:M:1016:ILE:HD13	1.54	0.73
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.52	0.73
3:N:875:THR:HG22	3:N:879:ARG:HE	1.51	0.73
1:A:95:GLN:HG2	1:A:146:ARG:HH22	1.54	0.73
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.71	0.73
2:C:630:ARG:NE	2:C:705:ILE:HB	2.03	0.73
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.71	0.73
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.70	0.73
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.70	0.73
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.54	0.72
3:D:58:CYS:SG	3:D:59:ALA:N	2.62	0.72
5:F:337:HIS:H	5:F:337:HIS:HD2	1.36	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.54	0.72
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	1.89	0.72
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.52	0.72
4:E:30:LEU:O	4:E:35:PHE:HA	1.89	0.72
3:N:838:ARG:HB2	9:N:2269:HOH:O	1.88	0.72
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.71	0.72
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.72
2:C:771:GLU:O	2:C:775:ARG:HG2	1.88	0.72
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.04	0.72
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.72	0.72
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.70	0.72
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.55	0.72
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.19	0.72
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.72	0.72
2:M:704:HIS:HA	9:M:1178:HOH:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.72	0.72
3:N:549:ASN:HB2	9:N:9149:HOH:O	1.89	0.72
3:N:639:LEU:H	3:N:639:LEU:HD12	1.53	0.72
1:A:24:VAL:HG22	1:A:196:THR:HB	1.70	0.72
3:D:73:CYS:HB3	3:D:76:CYS:O	1.89	0.72
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.70	0.72
3:D:673:ALA:HB2	9:D:9062:HOH:O	1.88	0.72
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.70	0.72
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.04	0.72
3:D:513:ILE:HG23	9:D:9117:HOH:O	1.89	0.72
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.53	0.72
3:N:1394:VAL:HG11	9:N:2250:HOH:O	1.88	0.72
1:B:78:ILE:HA	9:B:385:HOH:O	1.90	0.72
2:C:175:GLU:HA	9:C:2004:HOH:O	1.90	0.72
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.53	0.72
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.71	0.72
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.71	0.72
3:D:141:ILE:HD13	3:D:450:TYR:HB2	1.72	0.72
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.72	0.72
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.71	0.72
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.54	0.72
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.89	0.72
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.55	0.72
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.71	0.72
2:M:511:GLU:O	2:M:526:PRO:HD3	1.89	0.72
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.71	0.72
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.72	0.72
2:M:478:VAL:HA	2:M:506:ASN:O	1.90	0.72
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.71	0.72
2:C:158:TYR:HB2	9:C:1570:HOH:O	1.89	0.72
5:F:388:ALA:HB3	9:F:553:HOH:O	1.89	0.72
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.71	0.72
3:N:512:MET:HE2	3:N:1452:ILE:HD11	1.70	0.72
3:N:723:GLY:HA3	9:N:9632:HOH:O	1.90	0.72
2:C:1000:MET:HB3	2:C:1002:GLU:HG3	1.71	0.71
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.72	0.71
9:C:1389:HOH:O	3:D:630:VAL:HG23	1.89	0.71
2:M:72:ARG:HH21	2:M:112:GLU:HG3	1.54	0.71
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.70	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.73	0.71
5:P:208:SER:HB2	5:P:211:ASP:CG	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.72	0.71
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.05	0.71
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.90	0.71
2:M:139:GLN:NE2	2:M:334:ARG:HH11	1.87	0.71
2:M:1030:GLN:HB2	3:N:626:SER:HB2	1.70	0.71
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.72	0.71
3:N:142:LEU:HD11	9:N:9710:HOH:O	1.89	0.71
3:N:1189:ARG:CZ	3:N:1203:LYS:HB2	2.20	0.71
1:L:95:GLN:HE21	1:L:95:GLN:H	1.38	0.71
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.73	0.71
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.71	0.71
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.70	0.71
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.73	0.71
1:K:27:PRO:HB2	9:K:4607:HOH:O	1.90	0.71
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.72	0.71
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.71	0.71
3:N:158:TYR:HA	9:N:9313:HOH:O	1.89	0.71
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.71	0.71
3:N:1376:MET:HE3	3:N:1421:LEU:HD13	1.70	0.71
5:F:100:VAL:HG21	9:F:478:HOH:O	1.89	0.71
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.20	0.71
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.04	0.71
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.36	0.71
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.72	0.71
5:P:164:LYS:HA	5:P:171:LYS:HE2	1.71	0.71
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.04	0.71
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.90	0.71
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.73	0.71
2:M:755:LEU:HB2	2:M:790:LEU:HD23	1.73	0.71
3:N:400:VAL:HG11	3:N:441:ARG:NH1	2.06	0.71
5:P:312:GLN:HB2	9:P:4816:HOH:O	1.90	0.71
1:A:219:ARG:HH22	1:B:223:THR:HG22	1.53	0.71
1:B:103:ALA:HB1	1:B:107:LYS:HE3	1.73	0.71
3:D:1321:ALA:O	3:D:1339:LYS:HD3	1.91	0.71
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.25	0.71
2:M:399:ASN:O	2:M:402:SER:HB3	1.90	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.05	0.71
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.71	0.71
2:C:186:VAL:HG23	2:C:187:ASN:H	1.54	0.71
2:C:346:VAL:O	2:C:350:ARG:HG3	1.91	0.71
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:144:PRO:HB3	9:M:1138:HOH:O	1.91	0.71
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.16	0.71
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.71	0.71
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.71	0.71
2:M:786:LYS:HA	9:M:1196:HOH:O	1.91	0.71
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.55	0.71
1:A:53:VAL:HG23	9:A:481:HOH:O	1.90	0.70
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.73	0.70
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.70	0.70
2:M:17:PRO:O	2:M:20:GLU:HB2	1.90	0.70
2:M:146:VAL:HG11	2:M:306:THR:HG22	1.71	0.70
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.71	0.70
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.06	0.70
3:D:449:SER:HB2	9:D:9007:HOH:O	1.90	0.70
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.26	0.70
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.73	0.70
2:M:136:ILE:HD13	2:M:392:SER:HB2	1.72	0.70
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.72	0.70
5:P:393:THR:HG22	5:P:394:ARG:H	1.56	0.70
2:C:329:GLY:H	2:C:488:ALA:HB3	1.53	0.70
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.73	0.70
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.55	0.70
3:D:877:PRO:HA	9:D:9080:HOH:O	1.90	0.70
2:M:707:ARG:HH21	2:M:709:GLU:HB2	1.55	0.70
2:M:741:GLY:HA3	9:M:1428:HOH:O	1.90	0.70
2:M:820:ARG:HB2	9:M:1453:HOH:O	1.91	0.70
1:K:226:SER:O	1:K:228:PRO:HD3	1.91	0.70
3:N:527:MET:HE1	3:N:537:THR:HB	1.73	0.70
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.54	0.70
2:C:308:ARG:HH12	2:C:309:TYR:HD1	1.39	0.70
2:C:352:ALA:O	2:C:356:ARG:HG3	1.91	0.70
1:K:83:LYS:HE3	1:K:167:VAL:HG12	1.72	0.70
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.70
2:C:313:LEU:HA	2:C:321:GLU:HG3	1.73	0.70
3:D:194:GLY:H	3:D:206:ARG:HA	1.56	0.70
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.73	0.70
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.74	0.70
2:M:876:VAL:HA	9:M:1223:HOH:O	1.92	0.70
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.73	0.70
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.90	0.70
2:C:478:VAL:HA	2:C:506:ASN:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1099:VAL:HG13	3:D:1223:ILE:HD11	1.73	0.70
4:E:87:LYS:NZ	4:E:91:ARG:HE	1.88	0.70
3:N:559:ALA:HA	9:P:4209:HOH:O	1.91	0.70
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.90	0.70
2:C:804:VAL:HG22	9:C:1991:HOH:O	1.92	0.70
2:M:710:ILE:HB	2:M:790:LEU:HD13	1.74	0.70
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.56	0.70
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.74	0.70
3:N:661:MET:HE1	3:N:677:LEU:HD11	1.73	0.70
3:N:810:GLU:O	3:N:813:LEU:HG	1.92	0.70
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.74	0.70
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.71	0.70
1:B:123:MET:C	1:B:125:PRO:HD3	2.17	0.70
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.22	0.70
3:D:537:THR:C	5:F:317:LEU:HB2	2.17	0.70
3:N:430:ASP:HB3	9:N:9129:HOH:O	1.92	0.70
9:N:9045:HOH:O	4:O:84:ARG:HG2	1.91	0.70
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.74	0.69
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.74	0.69
3:N:124:GLU:HB2	9:N:2068:HOH:O	1.90	0.69
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.73	0.69
2:C:231:PRO:HB3	9:C:1979:HOH:O	1.91	0.69
2:C:1050:GLN:HA	9:D:9467:HOH:O	1.92	0.69
3:D:598:ARG:HH22	5:F:318:GLU:C	2.00	0.69
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.74	0.69
2:M:357:GLU:HG3	9:M:1526:HOH:O	1.92	0.69
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.56	0.69
3:N:561:GLY:HA3	5:P:184:ARG:HH22	1.57	0.69
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.73	0.69
3:N:850:LEU:H	3:N:850:LEU:HD12	1.56	0.69
2:C:432:ARG:HH12	3:D:1047:LYS:HG2	1.56	0.69
3:D:1267:ARG:HB2	3:D:1267:ARG:HH11	1.56	0.69
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.57	0.69
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.28	0.69
2:M:1090:LYS:HE2	3:N:88:TYR:O	1.91	0.69
3:N:866:VAL:HG11	9:N:9036:HOH:O	1.93	0.69
2:C:108:ILE:HB	2:C:368:THR:OG1	1.92	0.69
2:C:325:ILE:HG21	9:C:1414:HOH:O	1.91	0.69
2:C:939:ARG:HG3	9:C:1124:HOH:O	1.90	0.69
1:K:24:VAL:HG22	1:K:196:THR:HB	1.73	0.69
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:470:LEU:HG	3:N:508:ARG:HH21	1.57	0.69
3:N:1068:LEU:O	3:N:1072:ILE:HG12	1.92	0.69
5:P:76:SER:O	5:P:80:PRO:HD2	1.92	0.69
5:P:168:LYS:HG3	9:P:5800:HOH:O	1.92	0.69
5:F:363:GLU:O	5:F:367:MET:HG2	1.92	0.69
2:M:724:ARG:HG3	2:M:741:GLY:H	1.58	0.69
9:M:2105:HOH:O	5:P:409:LYS:HB2	1.93	0.69
3:N:1115:THR:HG22	9:N:9343:HOH:O	1.93	0.69
3:N:1156:LEU:HB3	9:N:9178:HOH:O	1.92	0.69
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.75	0.69
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.74	0.69
3:D:65:ARG:HB3	9:D:9625:HOH:O	1.91	0.69
3:D:1376:MET:HG2	9:D:9649:HOH:O	1.92	0.69
2:M:186:VAL:HG23	2:M:187:ASN:H	1.57	0.69
2:M:736:ASP:O	2:M:744:ARG:HG2	1.92	0.69
3:N:400:VAL:HG12	3:N:401:TYR:HD1	1.58	0.69
3:N:488:ARG:HB3	3:N:488:ARG:HH11	1.58	0.69
3:N:1192:LEU:HD12	3:N:1346:ARG:HH22	1.56	0.69
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.58	0.69
3:D:15:PRO:HB2	9:D:9069:HOH:O	1.92	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.75	0.69
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.75	0.69
3:N:28:LYS:HB2	3:N:41:ARG:NH1	2.07	0.69
3:N:206:ARG:O	3:N:206:ARG:HD3	1.92	0.69
5:P:321:ILE:HG22	5:P:322:GLY:H	1.57	0.69
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.57	0.69
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.74	0.69
1:B:36:LEU:O	1:B:39:PRO:HD2	1.93	0.69
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.73	0.69
1:B:77:GLU:HB3	9:B:475:HOH:O	1.92	0.69
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.73	0.69
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.74	0.69
2:C:1062:GLY:HA2	9:C:1248:HOH:O	1.93	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.22	0.69
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.73	0.69
3:D:1132:LEU:HA	9:D:2445:HOH:O	1.92	0.69
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.55	0.69
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.57	0.69
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.74	0.69
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.74	0.69
2:M:802:ARG:HB3	9:M:1993:HOH:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1098:LEU:HD23	3:N:1226:ALA:HA	1.73	0.69
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.31	0.69
2:C:841:ASN:HD22	2:C:843:HIS:H	1.39	0.69
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.58	0.69
3:D:1314:LYS:HB2	9:D:9368:HOH:O	1.93	0.69
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.07	0.69
2:M:35:PRO:HD2	2:M:38:LYS:HG3	1.73	0.69
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.75	0.69
3:N:1402:ALA:HB3	9:N:9219:HOH:O	1.93	0.69
5:P:303:ARG:HD2	9:P:4749:HOH:O	1.93	0.69
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.75	0.69
1:K:206:THR:HG23	1:K:209:GLU:HB2	1.74	0.69
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.28	0.69
2:M:346:VAL:O	2:M:350:ARG:HG2	1.92	0.69
3:N:194:GLY:H	3:N:206:ARG:HA	1.57	0.69
3:N:1087:ARG:HD2	3:N:1234:THR:O	1.93	0.69
2:C:676:ILE:HG23	3:D:948:THR:HB	1.75	0.68
2:C:758:ARG:HB3	2:C:788:THR:O	1.93	0.68
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.74	0.68
3:N:1020:LEU:HB3	9:N:9262:HOH:O	1.93	0.68
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.17	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.74	0.68
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.28	0.68
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.56	0.68
2:C:1080:SER:HA	9:C:1199:HOH:O	1.93	0.68
3:D:1410:GLU:HA	9:D:2415:HOH:O	1.93	0.68
2:M:157:ARG:HG3	9:M:1827:HOH:O	1.93	0.68
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.08	0.68
3:N:619:LEU:HB2	9:N:9336:HOH:O	1.91	0.68
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.75	0.68
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.74	0.68
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.92	0.68
2:C:329:GLY:N	2:C:488:ALA:HB3	2.08	0.68
3:D:111:LYS:HB3	3:D:512:MET:HE1	1.75	0.68
3:D:119:SER:HB2	3:D:123:LEU:N	2.05	0.68
3:D:704:ARG:HE	3:D:705:ALA:H	1.42	0.68
3:D:1354:LYS:HD2	9:D:9073:HOH:O	1.92	0.68
2:M:412:ALA:HB1	2:M:419:THR:HG23	1.74	0.68
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.75	0.68
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.08	0.68
2:C:421:GLU:HA	9:C:1472:HOH:O	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.76	0.68
5:F:392:VAL:HG11	5:F:396:ARG:HE	1.58	0.68
3:N:478:LEU:HD22	3:N:1388:ARG:HH21	1.59	0.68
3:N:1287:GLU:HA	9:N:9009:HOH:O	1.93	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.28	0.68
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.74	0.68
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.75	0.68
3:D:1197:ARG:HG3	9:D:9004:HOH:O	1.92	0.68
3:D:1487:VAL:HG11	3:D:1492:LEU:HG	1.74	0.68
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.75	0.68
3:N:569:ASN:ND2	3:N:573:MET:HE1	2.08	0.68
3:N:804:LEU:HB2	3:N:830:ALA:O	1.94	0.68
3:N:838:ARG:HD3	3:N:865:THR:HG23	1.75	0.68
3:N:846:PRO:HA	9:N:9036:HOH:O	1.93	0.68
3:N:1492:LEU:HA	9:N:9942:HOH:O	1.92	0.68
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.93	0.68
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.76	0.68
2:C:1104:GLU:HA	3:D:6:ARG:HD2	1.76	0.68
3:D:469:ASP:HA	9:D:9515:HOH:O	1.93	0.68
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.74	0.68
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.76	0.68
2:M:780:GLU:HG3	2:M:781:LYS:H	1.58	0.68
3:N:761:ILE:HG21	9:O:5032:HOH:O	1.94	0.68
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.28	0.68
3:D:67:ARG:HD3	9:D:2035:HOH:O	1.94	0.68
3:D:598:ARG:NH1	3:D:598:ARG:HG2	2.09	0.68
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.59	0.68
3:D:1299:PHE:HB2	9:D:9155:HOH:O	1.93	0.68
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.76	0.68
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.74	0.68
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.76	0.68
3:D:78:VAL:HG23	9:D:2450:HOH:O	1.93	0.68
3:D:478:LEU:HA	9:D:9267:HOH:O	1.94	0.68
3:D:889:ALA:O	3:D:929:ARG:HD2	1.93	0.68
3:D:1478:SER:O	3:D:1482:ARG:HG3	1.94	0.68
5:F:78:SER:HA	9:F:735:HOH:O	1.93	0.68
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.75	0.68
1:L:110:LYS:HG3	9:L:6714:HOH:O	1.93	0.68
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.75	0.68
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.29	0.68
5:P:401:GLU:O	5:P:405:LEU:HB2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.09	0.68
2:C:428:ARG:HD3	2:C:450:GLY:H	1.58	0.68
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.74	0.68
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	1.94	0.68
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.76	0.68
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.68
2:M:412:ALA:HB3	2:M:451:LEU:HB3	1.75	0.68
2:M:913:GLU:O	2:M:916:GLU:HB3	1.94	0.68
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.75	0.68
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.74	0.68
1:B:99:LEU:HD12	1:B:114:PHE:HB3	1.76	0.68
2:C:41:ASN:H	2:C:41:ASN:ND2	1.92	0.68
2:C:1015:LEU:HA	9:C:1234:HOH:O	1.93	0.68
3:D:139:GLY:O	3:D:147:VAL:HB	1.94	0.68
3:D:172:PRO:HD2	3:D:389:GLU:O	1.93	0.68
2:M:525:SER:H	2:M:528:GLU:HG3	1.59	0.68
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.76	0.68
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.75	0.67
3:D:728:LEU:HD22	3:D:745:MET:SD	2.34	0.67
3:D:854:ALA:HB3	9:D:9283:HOH:O	1.94	0.67
3:D:1316:GLY:HA3	9:D:9350:HOH:O	1.92	0.67
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.59	0.67
5:F:94:LEU:HD23	5:F:96:LEU:H	1.59	0.67
5:F:314:PRO:HD2	9:F:481:HOH:O	1.93	0.67
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.76	0.67
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.74	0.67
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.75	0.67
5:P:155:THR:HA	9:P:3694:HOH:O	1.92	0.67
2:M:584:GLU:CD	2:M:584:GLU:H	1.99	0.67
3:N:622:ARG:HD2	9:P:5569:HOH:O	1.93	0.67
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.76	0.67
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.76	0.67
3:D:145:VAL:HB	9:D:2447:HOH:O	1.93	0.67
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.76	0.67
3:D:386:HIS:HA	9:D:2147:HOH:O	1.94	0.67
3:D:1306:PRO:HB3	3:D:1307:LYS:HE3	1.76	0.67
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.75	0.67
2:M:432:ARG:HH11	3:N:1048:PRO:HG2	1.58	0.67
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.75	0.67
1:A:100:LEU:HD11	9:A:408:HOH:O	1.94	0.67
2:C:379:GLU:HG3	2:C:383:ARG:HH12	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:511:GLU:O	2:C:526:PRO:HD3	1.94	0.67
2:C:1000:MET:SD	2:C:1001:VAL:HG22	2.34	0.67
3:D:195:VAL:HG13	9:D:9209:HOH:O	1.94	0.67
3:D:554:LEU:HD22	9:D:9564:HOH:O	1.94	0.67
3:D:978:TYR:HE1	3:D:985:ASP:HA	1.60	0.67
3:D:1324:PRO:HA	9:D:9450:HOH:O	1.94	0.67
5:F:215:GLU:HB2	9:F:482:HOH:O	1.95	0.67
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.10	0.67
2:C:71:TYR:HB2	9:C:1203:HOH:O	1.93	0.67
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.76	0.67
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.25	0.67
1:A:130:ALA:HB1	9:A:328:HOH:O	1.92	0.67
2:C:420:ARG:H	2:C:420:ARG:HD2	1.59	0.67
2:C:712:ALA:O	2:C:820:ARG:HB3	1.94	0.67
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.76	0.67
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.25	0.67
3:N:1409:ALA:HB1	9:N:9241:HOH:O	1.94	0.67
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.22	0.67
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.76	0.67
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.75	0.67
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.58	0.67
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.75	0.67
3:D:676:MET:HG3	9:D:9271:HOH:O	1.92	0.67
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.76	0.67
4:E:36:LYS:HB3	9:E:130:HOH:O	1.95	0.67
1:L:88:ARG:HD2	1:L:123:MET:HE2	1.76	0.67
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.20	0.67
3:N:690:ALA:O	3:N:694:VAL:HG23	1.95	0.67
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.25	0.67
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.76	0.67
1:B:30:ARG:HE	2:C:854:PRO:HG3	1.59	0.67
3:D:667:ALA:HB2	9:D:9271:HOH:O	1.93	0.67
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.76	0.67
1:L:168:ASP:HA	9:L:6431:HOH:O	1.94	0.67
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.77	0.67
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.76	0.67
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.18	0.67
3:N:381:ALA:HA	9:N:2123:HOH:O	1.93	0.67
5:P:138:SER:H	5:P:140:ARG:CZ	2.08	0.67
2:C:145:GLY:O	2:C:163:ILE:HG23	1.94	0.67
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:486:ARG:HH21	3:D:489:ARG:NH2	1.92	0.67
3:D:1498:ALA:HB1	9:E:165:HOH:O	1.94	0.67
1:L:46:SER:HB2	9:L:4292:HOH:O	1.95	0.67
2:M:177:GLU:HB2	9:M:1718:HOH:O	1.95	0.67
2:M:265:ARG:HG2	2:M:266:ARG:N	2.10	0.67
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.59	0.67
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.10	0.67
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.60	0.66
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.94	0.66
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.75	0.66
3:D:500:ARG:HG3	9:D:2428:HOH:O	1.94	0.66
2:M:42:VAL:HG12	2:M:43:GLY:H	1.60	0.66
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.77	0.66
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.77	0.66
5:P:138:SER:H	5:P:140:ARG:NH2	1.93	0.66
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.30	0.66
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.77	0.66
2:C:586:ARG:HD3	9:C:1768:HOH:O	1.94	0.66
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.24	0.66
2:M:140:ILE:HA	2:M:332:ARG:O	1.95	0.66
2:M:162:ILE:HB	2:M:172:ILE:HB	1.76	0.66
3:N:416:ALA:HB2	9:N:2085:HOH:O	1.94	0.66
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.77	0.66
2:C:470:PRO:HG2	2:C:538:GLN:OE1	1.96	0.66
3:D:544:TYR:O	3:D:548:ILE:HG12	1.94	0.66
3:D:824:ASN:HB3	9:D:9067:HOH:O	1.96	0.66
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.60	0.66
3:N:828:LYS:HD2	9:N:9243:HOH:O	1.95	0.66
5:P:151:LEU:HD13	5:P:154:LYS:HB3	1.75	0.66
2:C:500:ASN:HB2	9:C:1931:HOH:O	1.95	0.66
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.26	0.66
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.77	0.66
3:D:233:LYS:HA	9:D:9066:HOH:O	1.96	0.66
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.78	0.66
4:E:87:LYS:HZ2	4:E:91:ARG:HH21	1.42	0.66
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.77	0.66
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.77	0.66
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.78	0.66
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.10	0.66
2:M:492:ASP:HB3	2:M:518:LYS:HD3	1.76	0.66
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.77	0.66
3:N:983:LEU:HA	9:N:9324:HOH:O	1.95	0.66
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.78	0.66
1:L:123:MET:C	1:L:125:PRO:HD3	2.19	0.66
2:M:262:ALA:HB3	9:M:1344:HOH:O	1.96	0.66
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.78	0.66
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.59	0.66
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.26	0.66
2:M:453:THR:HA	9:M:1130:HOH:O	1.94	0.66
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.60	0.66
2:M:773:LEU:O	2:M:777:ILE:HG13	1.96	0.66
1:A:30:ARG:HH11	1:A:191:ASP:HB2	1.58	0.66
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.08	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.76	0.66
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.78	0.66
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.78	0.66
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.60	0.66
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.77	0.66
1:L:20:TYR:OH	1:L:198:ARG:HD2	1.96	0.66
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.76	0.66
5:P:350:LEU:HD23	5:P:351:SER:N	2.11	0.66
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.78	0.66
3:D:502:PHE:HZ	3:D:512:MET:HE3	1.59	0.66
3:D:572:ARG:HH21	5:F:83:GLN:NE2	1.94	0.66
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.31	0.66
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.59	0.66
1:L:178:ALA:HA	9:L:6698:HOH:O	1.96	0.66
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.78	0.66
2:M:437:ARG:HB3	2:M:467:ILE:HB	1.77	0.66
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.78	0.66
2:C:12:VAL:HG12	2:C:13:ILE:HG23	1.77	0.66
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.76	0.66
2:C:276:LYS:HB3	9:C:1659:HOH:O	1.96	0.66
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.78	0.66
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.31	0.66
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.07	0.66
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.25	0.66
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.78	0.66
3:D:175:VAL:HG12	3:D:176:ASP:OD1	1.96	0.66
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.78	0.66
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:150:PRO:HG3	2:M:158:TYR:HD2	1.60	0.66
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.21	0.66
3:N:422:ALA:H	3:N:427:VAL:HG11	1.59	0.66
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.66
1:A:46:SER:HB3	2:C:856:GLU:HG3	1.78	0.65
1:A:143:ARG:HG3	1:A:144:VAL:N	2.10	0.65
3:D:100:ALA:HA	9:D:2414:HOH:O	1.96	0.65
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.60	0.65
1:L:99:LEU:HA	9:L:4894:HOH:O	1.95	0.65
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.43	0.65
3:N:119:SER:H	3:N:123:LEU:HB2	1.61	0.65
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.65
4:O:34:GLY:HA3	9:O:5632:HOH:O	1.96	0.65
2:C:291:ALA:O	2:C:299:LYS:HE2	1.96	0.65
2:C:588:VAL:HB	9:C:1450:HOH:O	1.96	0.65
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.79	0.65
3:D:980:MET:HE1	9:D:9118:HOH:O	1.96	0.65
3:D:1072:ILE:HA	3:D:1075:HIS:HD2	1.61	0.65
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.77	0.65
1:K:58:ILE:HB	1:K:61:VAL:HB	1.78	0.65
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.10	0.65
1:L:84:GLU:HB2	9:N:9385:HOH:O	1.94	0.65
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.78	0.65
1:A:156:HIS:HD2	1:A:157:GLY:H	1.43	0.65
1:B:27:PRO:O	1:B:28:LEU:HD23	1.97	0.65
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.62	0.65
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.61	0.65
2:C:605:LYS:HD3	2:C:612:VAL:HB	1.78	0.65
2:C:769:PRO:HA	9:F:832:HOH:O	1.94	0.65
2:C:836:GLY:HA2	3:D:725:SER:OG	1.96	0.65
3:D:33:ASN:HB2	3:D:40:GLU:OE1	1.96	0.65
3:D:1047:LYS:HZ1	3:D:1053:PHE:HA	1.61	0.65
3:D:1214:PRO:HB2	9:D:9171:HOH:O	1.96	0.65
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.77	0.65
3:N:1403:LEU:HD23	3:N:1407:LEU:HD22	1.78	0.65
1:A:226:SER:O	1:A:228:PRO:HD3	1.95	0.65
1:B:59:GLU:HG2	1:B:139:ASN:O	1.96	0.65
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.79	0.65
2:C:945:ARG:CZ	2:C:945:ARG:HB2	2.26	0.65
3:D:1314:LYS:NZ	3:D:1317:ASP:H	1.94	0.65
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:161:ARG:HB2	1:K:161:ARG:HH11	1.60	0.65
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.79	0.65
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.77	0.65
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.78	0.65
2:M:714:ASP:HB2	9:M:1453:HOH:O	1.97	0.65
2:M:1098:ASP:HB3	9:N:9038:HOH:O	1.95	0.65
3:N:73:CYS:HB2	9:N:9191:HOH:O	1.96	0.65
3:N:474:GLU:O	3:N:478:LEU:HG	1.97	0.65
3:N:699:VAL:H	3:N:756:GLN:HE22	1.42	0.65
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.79	0.65
2:C:99:GLN:HG2	9:C:1321:HOH:O	1.95	0.65
2:C:717:LEU:HB3	9:C:2169:HOH:O	1.97	0.65
3:D:1055:VAL:HG13	9:D:9713:HOH:O	1.96	0.65
2:M:431:HIS:CD2	2:M:433:THR:H	2.13	0.65
3:N:524:LEU:C	3:N:526:PRO:HD3	2.22	0.65
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.31	0.65
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.32	0.65
2:C:961:GLU:HG3	9:C:1815:HOH:O	1.97	0.65
3:D:36:THR:HB	3:D:38:LYS:HG3	1.78	0.65
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.12	0.65
2:M:444:PRO:HA	9:M:2038:HOH:O	1.95	0.65
2:M:464:LEU:HG	9:M:1433:HOH:O	1.96	0.65
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.77	0.65
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.26	0.65
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.78	0.65
3:N:1117:TYR:HD2	9:N:9343:HOH:O	1.79	0.65
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.31	0.65
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.79	0.65
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.77	0.65
3:D:546:ARG:O	3:D:550:ARG:HG2	1.96	0.65
3:D:579:ASP:HB2	9:D:9169:HOH:O	1.96	0.65
1:L:7:LYS:HD2	9:L:3648:HOH:O	1.95	0.65
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.27	0.65
2:M:428:ARG:NH1	6:N:8002:STD:C29	2.60	0.65
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.11	0.65
2:M:739:GLU:HB3	9:M:1183:HOH:O	1.96	0.65
3:N:125:GLN:HE22	3:N:587:ARG:HE	1.44	0.65
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.62	0.65
4:O:78:ASN:HB3	9:O:3505:HOH:O	1.96	0.65
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.26	0.65
3:D:704:ARG:NE	3:D:705:ALA:H	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:192:LEU:HD12	9:L:5714:HOH:O	1.97	0.65
3:N:455:ARG:HH12	3:N:463:GLN:HG3	1.62	0.65
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.32	0.65
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.62	0.65
1:A:71:VAL:HG13	9:A:328:HOH:O	1.96	0.65
1:B:129:ILE:HG12	9:B:474:HOH:O	1.95	0.65
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.62	0.65
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.79	0.65
9:C:1690:HOH:O	3:D:5:VAL:HA	1.94	0.65
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.78	0.65
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.24	0.65
3:D:1384:PRO:HG2	9:D:9535:HOH:O	1.97	0.65
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.79	0.65
5:F:317:LEU:O	5:F:329:TYR:HB3	1.97	0.65
5:F:321:ILE:HB	5:F:327:SER:OG	1.95	0.65
1:K:67:THR:N	2:M:627:ARG:HH21	1.94	0.65
2:M:289:THR:HB	9:M:1731:HOH:O	1.97	0.65
3:N:153:LEU:HD11	3:N:158:TYR:N	2.12	0.65
3:N:800:LYS:HE2	3:N:804:LEU:HD22	1.79	0.65
5:P:403:LYS:HA	5:P:403:LYS:NZ	2.11	0.65
1:B:3:ASP:HA	9:B:538:HOH:O	1.97	0.65
2:C:423:ALA:HB2	6:D:8001:STD:H10	1.77	0.65
2:C:701:THR:HG23	2:C:832:LYS:HG3	1.79	0.65
2:C:945:ARG:HB2	2:C:945:ARG:NH1	2.12	0.65
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.31	0.65
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.31	0.65
3:D:156:GLU:H	3:D:156:GLU:CD	2.05	0.65
3:D:531:ASP:H	3:D:534:ARG:HB2	1.62	0.65
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.27	0.65
3:N:456:MET:HE3	3:N:568:ARG:HD3	1.79	0.65
3:N:592:THR:HA	9:N:9335:HOH:O	1.95	0.65
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.12	0.65
3:N:1267:ARG:HH21	3:N:1271:LYS:HD2	1.62	0.65
2:C:198:ARG:NH2	2:C:204:GLN:H	1.96	0.64
2:C:926:PHE:O	2:C:930:LYS:HG3	1.95	0.64
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.62	0.64
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.78	0.64
3:D:153:LEU:HD12	3:D:154:THR:N	2.12	0.64
3:D:524:LEU:C	3:D:526:PRO:HD3	2.22	0.64
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.23	0.64
2:M:192:PRO:HB3	9:M:1875:HOH:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:227:PHE:HA	2:M:230:ARG:NE	2.11	0.64
3:N:950:GLY:H	3:N:953:ASP:HB2	1.62	0.64
1:A:76:VAL:HB	9:A:404:HOH:O	1.97	0.64
2:C:301:GLU:HG2	9:C:1862:HOH:O	1.96	0.64
2:C:627:ARG:HG2	9:C:1542:HOH:O	1.96	0.64
3:D:394:LEU:HD13	9:D:9961:HOH:O	1.98	0.64
3:D:487:ALA:HB3	9:D:9146:HOH:O	1.97	0.64
3:D:1106:VAL:HG13	9:D:9516:HOH:O	1.96	0.64
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.32	0.64
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.79	0.64
4:E:25:LYS:HA	4:E:28:GLN:HE21	1.63	0.64
2:M:139:GLN:O	2:M:333:ILE:HA	1.98	0.64
2:M:328:LEU:HD21	2:M:434:HIS:HA	1.80	0.64
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.78	0.64
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.12	0.64
3:N:984:THR:HG22	3:N:987:GLU:H	1.63	0.64
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.80	0.64
2:C:664:GLY:HA2	9:C:1145:HOH:O	1.97	0.64
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.78	0.64
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.12	0.64
1:L:132:LEU:HB2	9:L:5877:HOH:O	1.97	0.64
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.33	0.64
3:N:33:ASN:HB2	3:N:40:GLU:OE1	1.98	0.64
2:C:605:LYS:HE2	2:C:610:ARG:NH1	2.12	0.64
2:C:778:PHE:CZ	5:F:409:LYS:HB2	2.32	0.64
3:D:1132:LEU:HD12	9:D:2445:HOH:O	1.98	0.64
3:D:1264:GLU:OE1	3:D:1425:THR:HB	1.97	0.64
3:D:1474:ALA:HB1	9:D:9516:HOH:O	1.97	0.64
2:M:779:GLY:HA3	9:M:1784:HOH:O	1.96	0.64
9:N:9881:HOH:O	4:O:5:GLY:HA2	1.96	0.64
5:P:85:LEU:HD23	9:P:5610:HOH:O	1.97	0.64
5:P:416:ARG:HH11	5:P:419:ARG:HB2	1.63	0.64
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.80	0.64
2:C:151:ASP:HB2	2:C:157:ARG:O	1.98	0.64
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.79	0.64
2:C:505:GLY:HA3	9:C:1255:HOH:O	1.98	0.64
3:D:379:ALA:HA	9:D:9392:HOH:O	1.98	0.64
3:D:1168:MET:HE3	3:D:1171:VAL:HB	1.80	0.64
5:F:395:GLU:O	5:F:399:GLN:HB2	1.97	0.64
1:K:20:TYR:HD2	1:K:21:GLY:H	1.45	0.64
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:LYS:HB2	9:L:4679:HOH:O	1.96	0.64
2:M:92:ALA:HB1	9:M:2075:HOH:O	1.96	0.64
3:N:367:ILE:HA	9:N:9641:HOH:O	1.98	0.64
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.80	0.64
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.80	0.64
3:D:721:VAL:HA	9:D:2048:HOH:O	1.96	0.64
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.61	0.64
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.64
5:F:87:GLU:O	5:F:91:VAL:HG23	1.98	0.64
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.78	0.64
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.12	0.64
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.62	0.64
2:M:610:ARG:HB2	9:M:1533:HOH:O	1.97	0.64
2:M:650:ARG:HB2	9:M:1692:HOH:O	1.96	0.64
3:N:2:LYS:HB2	9:N:9354:HOH:O	1.98	0.64
5:P:128:ARG:HD2	9:P:4586:HOH:O	1.96	0.64
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.22	0.64
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.13	0.64
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.64
2:M:30:LEU:HB3	2:M:44:ILE:HD12	1.77	0.64
3:N:12:LEU:HD22	3:N:511:TRP:HB2	1.80	0.64
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.79	0.64
2:C:267:TYR:HB2	9:C:1724:HOH:O	1.98	0.64
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.78	0.64
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.62	0.64
2:M:1110:ASP:HA	9:M:1272:HOH:O	1.97	0.64
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.27	0.64
3:N:119:SER:CB	3:N:123:LEU:HB2	2.28	0.64
3:N:1109:GLU:HA	9:N:9975:HOH:O	1.97	0.64
3:N:1441:GLN:CD	3:N:1442:ASN:HB2	2.23	0.64
1:A:54:THR:HG21	9:A:409:HOH:O	1.98	0.64
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.80	0.64
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.79	0.64
2:C:348:LEU:HD21	9:C:1976:HOH:O	1.97	0.64
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.80	0.64
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.80	0.64
1:L:58:ILE:HB	1:L:61:VAL:HB	1.80	0.64
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.97	0.64
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.79	0.64
2:M:285:LEU:HD23	2:M:285:LEU:O	1.98	0.64
1:A:18:ARG:O	1:A:207:PRO:HD3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.33	0.64
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.14	0.64
5:F:398:ARG:HB2	9:F:818:HOH:O	1.97	0.64
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.80	0.64
2:M:674:VAL:HG21	2:M:871:LEU:HD12	1.80	0.64
3:N:179:VAL:HG22	3:N:389:GLU:HG3	1.80	0.64
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.33	0.64
3:N:1267:ARG:HB2	3:N:1267:ARG:HH11	1.63	0.64
2:C:437:ARG:HG2	2:C:467:ILE:HG22	1.80	0.63
3:D:60:CYS:HA	9:D:2260:HOH:O	1.97	0.63
3:D:448:GLU:HB3	9:D:9158:HOH:O	1.98	0.63
3:D:1406:ARG:HA	9:D:9761:HOH:O	1.98	0.63
5:F:278:LEU:O	5:F:282:LEU:HG	1.98	0.63
1:L:175:ARG:O	3:N:851:LEU:HD21	1.98	0.63
3:N:1415:VAL:HG23	9:N:9100:HOH:O	1.97	0.63
3:N:1493:LYS:HB3	9:N:9467:HOH:O	1.96	0.63
3:D:369:ALA:HB2	9:D:9232:HOH:O	1.99	0.63
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.63	0.63
3:N:726:ILE:HD11	9:N:9650:HOH:O	1.97	0.63
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.63	0.63
5:P:87:GLU:O	5:P:91:VAL:HG23	1.97	0.63
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.80	0.63
2:C:14:PRO:HD2	9:C:1805:HOH:O	1.98	0.63
3:D:956:ILE:HG12	3:D:1039:CYS:O	1.98	0.63
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.27	0.63
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.28	0.63
3:D:1399:ASP:HA	9:D:2120:HOH:O	1.98	0.63
5:F:314:PRO:HB3	9:F:515:HOH:O	1.98	0.63
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.81	0.63
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.33	0.63
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.80	0.63
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.78	0.63
1:K:78:ILE:O	1:K:82:LEU:HG	1.97	0.63
1:K:151:VAL:HG23	9:K:3798:HOH:O	1.97	0.63
2:M:89:THR:O	2:M:91:GLN:HG3	1.99	0.63
2:M:151:ASP:HB2	2:M:157:ARG:O	1.98	0.63
2:M:428:ARG:HD3	2:M:449:ILE:HG22	1.79	0.63
2:M:528:GLU:HB3	9:M:1417:HOH:O	1.97	0.63
2:M:1068:GLU:OE1	5:P:345:ALA:HA	1.98	0.63
3:N:449:SER:HB2	9:N:9454:HOH:O	1.98	0.63
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.81	0.63
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.79	0.63
3:D:528:VAL:O	3:D:535:PHE:HA	1.99	0.63
3:D:529:GLN:OE1	3:D:533:GLY:HA2	1.99	0.63
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.99	0.63
5:F:93:LEU:HG	5:F:190:ALA:CB	2.28	0.63
5:F:227:PHE:HA	9:F:638:HOH:O	1.98	0.63
1:K:120:VAL:HG13	9:K:7313:HOH:O	1.98	0.63
3:N:119:SER:OG	3:N:123:LEU:HD12	1.98	0.63
3:N:198:ARG:HA	9:N:9071:HOH:O	1.97	0.63
3:N:1458:GLU:HG2	9:N:9361:HOH:O	1.98	0.63
4:O:95:GLY:HA3	9:O:5632:HOH:O	1.99	0.63
2:C:276:LYS:O	2:C:280:LYS:HB2	1.99	0.63
2:C:332:ARG:HH22	2:C:338:GLU:CD	2.06	0.63
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.62	0.63
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.80	0.63
3:D:1130:ARG:NH1	3:D:1130:ARG:HB2	2.14	0.63
3:D:1139:ASP:HB2	9:D:2265:HOH:O	1.98	0.63
3:D:1209:LEU:HD22	3:D:1211:MET:HE2	1.79	0.63
4:E:72:ARG:HD3	9:E:186:HOH:O	1.98	0.63
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.79	0.63
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.98	0.63
3:N:877:PRO:O	3:N:880:ILE:HG22	1.98	0.63
3:N:1267:ARG:HH12	3:N:1331:ASP:HB2	1.63	0.63
9:N:9114:HOH:O	5:P:140:ARG:HB3	1.96	0.63
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.14	0.63
1:A:11:PHE:HD1	1:A:25:LEU:HD13	1.63	0.63
2:C:162:ILE:O	2:C:164:PRO:HD3	1.99	0.63
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.34	0.63
1:L:216:GLU:HB2	9:L:4700:HOH:O	1.99	0.63
2:M:378:LEU:HG	2:M:382:ILE:HD11	1.80	0.63
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.80	0.63
3:N:1342:GLU:H	3:N:1342:GLU:CD	2.07	0.63
5:P:102:LEU:O	5:P:106:VAL:HG23	1.99	0.63
1:A:123:MET:O	1:A:125:PRO:HD3	1.99	0.63
2:C:110:GLU:OE2	2:C:369:PRO:HG3	1.98	0.63
2:C:627:ARG:HG3	2:C:628:PHE:H	1.64	0.63
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.29	0.63
5:F:147:LEU:HG	9:F:845:HOH:O	1.99	0.63
2:M:532:MET:HG3	2:M:533:ASP:N	2.13	0.63
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1105:LYS:HG2	9:M:1472:HOH:O	1.97	0.63
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	1.98	0.63
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.63
2:C:588:VAL:HG21	2:C:664:GLY:O	1.99	0.63
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.99	0.63
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.81	0.63
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.63	0.63
3:N:536:ALA:HA	5:P:315:VAL:O	1.99	0.63
3:N:1168:MET:HE2	3:N:1172:HIS:CE1	2.34	0.63
4:O:70:THR:HG21	4:O:72:ARG:NH2	2.13	0.63
5:P:131:VAL:O	5:P:135:ILE:HG22	1.99	0.63
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.29	0.63
1:A:59:GLU:CD	1:A:139:ASN:HD21	2.07	0.62
2:C:937:ASP:O	2:C:941:VAL:HG23	1.99	0.62
2:M:41:ASN:O	2:M:46:ALA:HB2	1.99	0.62
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.29	0.62
3:N:395:VAL:HG12	9:N:2032:HOH:O	1.99	0.62
3:N:1122:LEU:O	3:N:1134:LEU:HD23	1.98	0.62
4:O:48:MET:N	4:O:54:LEU:HB2	2.14	0.62
4:O:51:LEU:HG	4:O:53:GLY:H	1.64	0.62
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.81	0.62
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.81	0.62
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.81	0.62
3:N:181:ASP:OD2	3:N:199:LEU:HB2	1.99	0.62
3:N:383:GLY:HA2	9:N:2057:HOH:O	1.98	0.62
2:C:3:ILE:HG23	9:C:1258:HOH:O	1.99	0.62
2:C:587:VAL:HA	9:C:1272:HOH:O	1.98	0.62
3:D:459:GLU:HB3	9:D:9210:HOH:O	1.98	0.62
3:D:637:LEU:HD12	3:D:641:GLN:OE1	1.99	0.62
1:K:36:LEU:O	1:K:39:PRO:HD2	2.00	0.62
2:M:332:ARG:HH21	2:M:464:LEU:HD11	1.64	0.62
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.80	0.62
2:M:889:HIS:HE1	3:N:951:ILE:HB	1.64	0.62
3:N:52:PRO:HB2	9:N:9016:HOH:O	1.98	0.62
3:N:1314:LYS:H	3:N:1314:LYS:HD3	1.65	0.62
3:N:1390:LEU:HB3	9:N:2333:HOH:O	1.98	0.62
4:O:54:LEU:HG	4:O:58:PRO:CG	2.29	0.62
2:M:49:ARG:HB2	2:M:49:ARG:NH1	2.09	0.62
2:M:254:VAL:HG21	9:M:1618:HOH:O	1.99	0.62
2:M:447:ALA:HB1	9:M:1423:HOH:O	1.97	0.62
2:M:546:LEU:O	2:M:546:LEU:HD23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:131:LYS:CG	3:N:572:ARG:HH21	2.12	0.62
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.99	0.62
2:C:62:GLY:O	2:C:103:LYS:HG3	1.99	0.62
2:C:120:LEU:HD11	9:C:2187:HOH:O	1.98	0.62
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.81	0.62
2:C:172:ILE:HG23	9:C:1676:HOH:O	1.99	0.62
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.34	0.62
3:D:441:ARG:O	3:D:443:VAL:HG23	1.99	0.62
3:D:477:LEU:HD23	9:D:9334:HOH:O	1.99	0.62
3:D:565:ILE:HD11	5:F:189:GLU:OE1	2.00	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.30	0.62
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.62
3:N:587:ARG:HD2	9:N:9886:HOH:O	2.00	0.62
5:P:415:THR:O	5:P:417:LYS:HG3	1.99	0.62
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.80	0.62
1:B:153:ALA:HB3	9:B:402:HOH:O	1.99	0.62
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.30	0.62
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.29	0.62
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.63	0.62
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.80	0.62
3:D:1423:GLY:HA2	9:D:9071:HOH:O	1.97	0.62
5:F:366:ALA:HB1	9:F:616:HOH:O	1.98	0.62
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.14	0.62
2:M:571:LEU:HG	2:M:700:TYR:HA	1.82	0.62
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.81	0.62
3:N:712:GLY:C	3:N:713:ILE:HD12	2.24	0.62
3:N:1500:LYS:HA	9:N:9743:HOH:O	2.00	0.62
5:P:244:ARG:HH11	5:P:244:ARG:HG3	1.64	0.62
1:A:161:ARG:NH1	1:A:161:ARG:HB2	2.14	0.62
2:C:810:ASP:HB3	9:C:1294:HOH:O	2.00	0.62
3:D:699:VAL:HG22	3:D:756:GLN:HE22	1.65	0.62
5:F:408:LEU:O	5:F:412:GLU:HG2	2.00	0.62
2:M:64:LEU:HA	9:M:2181:HOH:O	2.00	0.62
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.82	0.62
3:N:192:ALA:HB3	9:N:9113:HOH:O	2.00	0.62
3:N:404:GLU:HB3	3:N:414:ARG:HD2	1.82	0.62
3:N:538:SER:HB2	9:N:9315:HOH:O	1.99	0.62
4:O:17:TYR:N	4:O:17:TYR:HD2	1.97	0.62
1:B:38:ASN:OD1	2:C:979:THR:HA	1.99	0.62
2:C:199:VAL:HG22	2:C:235:LEU:HG	1.81	0.62
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:427:VAL:HG23	9:C:1138:HOH:O	1.98	0.62
2:C:432:ARG:HH11	3:D:1048:PRO:HD3	1.63	0.62
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.64	0.62
5:F:117:SER:OG	5:F:124:PRO:HG3	2.00	0.62
1:L:70:GLY:HA2	9:L:5271:HOH:O	2.00	0.62
2:M:44:ILE:HG22	9:M:1699:HOH:O	1.99	0.62
2:M:196:LEU:O	2:M:200:LEU:HG	1.99	0.62
2:M:265:ARG:HG2	2:M:266:ARG:H	1.64	0.62
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.80	0.62
2:C:510:ALA:HB3	9:C:2128:HOH:O	1.99	0.62
2:C:606:VAL:HG11	2:C:643:VAL:O	1.99	0.62
3:D:131:LYS:HA	3:D:456:MET:HG3	1.81	0.62
3:D:503:LEU:HB3	9:D:9451:HOH:O	2.00	0.62
3:D:517:VAL:HG23	9:D:9427:HOH:O	1.98	0.62
1:L:19:GLU:HG3	1:L:201:THR:O	2.00	0.62
1:L:208:LEU:HD23	9:L:4122:HOH:O	2.00	0.62
2:M:166:PRO:HD3	2:M:265:ARG:HB2	1.82	0.62
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.65	0.62
2:M:916:GLU:HA	9:M:1386:HOH:O	1.99	0.62
2:M:1090:LYS:HE3	3:N:90:MET:CG	2.30	0.62
3:N:558:LEU:HB2	9:N:9146:HOH:O	2.00	0.62
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.06	0.62
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.81	0.62
2:C:42:VAL:HG12	2:C:43:GLY:H	1.65	0.62
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.00	0.62
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.35	0.62
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.25	0.62
2:M:62:GLY:O	2:M:103:LYS:HG3	1.99	0.62
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.82	0.62
2:M:286:SER:HB3	2:M:299:LYS:HE3	1.82	0.62
2:M:350:ARG:HD2	9:M:2100:HOH:O	2.00	0.62
2:M:723:THR:HG21	9:M:1504:HOH:O	2.00	0.62
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.30	0.62
2:M:976:ASP:CB	2:M:979:THR:HG22	2.30	0.62
3:N:1063:GLU:HG3	3:N:1064:GLY:N	2.15	0.62
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	1.81	0.62
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.81	0.62
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.82	0.61
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.80	0.61
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.35	0.61
3:D:48:ARG:HB2	9:D:9499:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.81	0.61
3:D:550:ARG:HD3	3:D:553:ARG:NH2	2.15	0.61
3:D:675:ARG:O	3:D:678:GLU:HG2	2.00	0.61
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.65	0.61
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.64	0.61
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.82	0.61
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.82	0.61
2:M:998:TYR:HE2	2:M:1000:MET:HG2	1.65	0.61
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.81	0.61
4:O:60:ALA:O	4:O:63:TRP:HB2	2.00	0.61
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.35	0.61
1:A:25:LEU:HG	9:A:350:HOH:O	2.00	0.61
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.81	0.61
2:C:254:VAL:HG22	2:C:258:TYR:HE1	1.64	0.61
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.61
3:D:422:ALA:H	3:D:427:VAL:HG11	1.65	0.61
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.81	0.61
2:C:515:ALA:HB3	9:C:1200:HOH:O	2.00	0.61
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.82	0.61
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.30	0.61
1:L:109:VAL:HG23	9:L:5877:HOH:O	1.99	0.61
2:M:358:ARG:HH22	2:M:374:ASN:CB	2.13	0.61
2:M:534:VAL:HB	2:M:538:GLN:NE2	2.14	0.61
3:N:949:ILE:HD11	3:N:1023:MET:HE2	1.80	0.61
2:C:431:HIS:H	2:C:434:HIS:CE1	2.18	0.61
2:C:578:VAL:HA	2:C:900:ARG:HD2	1.81	0.61
2:C:676:ILE:HG23	2:C:676:ILE:O	2.00	0.61
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.30	0.61
3:D:928:ALA:HB2	9:D:9129:HOH:O	1.99	0.61
1:K:106:PRO:HD3	9:K:4436:HOH:O	1.99	0.61
2:M:245:GLY:HA3	9:M:1762:HOH:O	2.00	0.61
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.80	0.61
2:M:777:ILE:HG22	9:M:2105:HOH:O	1.99	0.61
2:M:905:ILE:HD12	2:M:905:ILE:N	2.13	0.61
3:N:441:ARG:O	3:N:443:VAL:HG23	2.00	0.61
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.15	0.61
4:O:17:TYR:N	4:O:17:TYR:CD2	2.68	0.61
2:C:71:TYR:H	2:C:71:TYR:HD2	1.47	0.61
2:C:437:ARG:NE	2:C:469:THR:HB	2.16	0.61
2:C:678:PRO:O	3:D:943:THR:HA	2.01	0.61
2:C:953:VAL:HB	2:C:962:GLN:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:531:ASP:C	3:D:533:GLY:H	2.07	0.61
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.00	0.61
3:N:536:ALA:HA	5:P:315:VAL:H	1.65	0.61
3:N:832:ARG:HA	9:N:2061:HOH:O	2.01	0.61
3:D:211:VAL:HG13	3:D:393:ILE:HG13	1.81	0.61
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.31	0.61
3:D:477:LEU:HD13	3:D:492:ALA:O	2.01	0.61
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.83	0.61
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.27	0.61
2:M:354:GLY:HA2	9:M:1526:HOH:O	1.98	0.61
2:M:583:LEU:O	2:M:587:VAL:HG23	2.00	0.61
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.61
1:B:52:ALA:HB2	1:B:170:VAL:O	2.01	0.61
2:C:432:ARG:HH12	3:D:1047:LYS:CG	2.14	0.61
2:C:722:ILE:HG22	2:C:820:ARG:HH12	1.65	0.61
2:C:1014:SER:OG	5:F:331:ASP:HA	2.01	0.61
3:D:168:THR:OG1	3:D:393:ILE:HB	2.01	0.61
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.81	0.61
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.81	0.61
3:D:800:LYS:HG2	9:D:9141:HOH:O	2.00	0.61
3:D:975:GLU:O	3:D:979:GLU:HG3	2.00	0.61
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.16	0.61
1:K:226:SER:HA	9:K:5223:HOH:O	2.00	0.61
2:M:291:ALA:HB2	9:M:1720:HOH:O	2.00	0.61
3:N:28:LYS:HB3	3:N:41:ARG:HD2	1.82	0.61
3:N:831:GLY:HA3	9:N:9026:HOH:O	2.00	0.61
1:A:18:ARG:HD3	1:A:123:MET:HE1	1.83	0.61
1:A:158:ILE:HA	9:A:339:HOH:O	1.99	0.61
2:C:716:LYS:HD3	9:C:1399:HOH:O	1.99	0.61
2:C:750:LYS:HB2	3:D:681:ARG:NH2	2.16	0.61
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.01	0.61
1:L:67:THR:HG22	1:L:74:ASP:OD1	2.00	0.61
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.00	0.61
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.36	0.61
3:D:192:ALA:O	3:D:195:VAL:HG23	2.01	0.61
3:D:466:LYS:HG2	9:D:9178:HOH:O	2.00	0.61
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.82	0.61
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.81	0.61
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.14	0.61
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.00	0.61
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.83	0.61
3:D:802:ALA:HB1	9:D:2302:HOH:O	2.01	0.61
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.81	0.61
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.83	0.61
3:D:1318:TYR:HD1	3:D:1319:VAL:N	1.97	0.61
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.61
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.83	0.61
1:L:136:GLY:HA2	9:L:5776:HOH:O	2.00	0.61
1:B:62:LEU:H	1:B:62:LEU:HD12	1.65	0.60
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.31	0.60
2:C:1008:ARG:HE	2:C:1029:GLY:N	1.98	0.60
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.83	0.60
1:K:7:LYS:HE2	9:K:4607:HOH:O	2.00	0.60
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.66	0.60
2:M:429:ASP:HB3	3:N:1079:LYS:NZ	2.16	0.60
3:N:835:SER:HA	9:N:9026:HOH:O	2.01	0.60
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.82	0.60
2:C:535:SER:OG	2:C:538:GLN:HG2	2.01	0.60
2:C:944:LEU:HD21	2:C:963:LEU:HD22	1.84	0.60
3:D:149:LYS:HB3	9:D:9547:HOH:O	2.00	0.60
3:D:178:LEU:HG	3:D:200:ASP:H	1.66	0.60
3:D:399:ARG:HG3	9:D:9673:HOH:O	2.00	0.60
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.81	0.60
2:M:1018:GLN:NE2	2:M:1060:ILE:HD11	2.14	0.60
3:N:834:THR:HG22	3:N:838:ARG:HD2	1.83	0.60
4:O:61:GLU:H	4:O:61:GLU:CD	2.07	0.60
5:P:90:GLN:HA	5:P:90:GLN:HE21	1.65	0.60
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.83	0.60
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.30	0.60
3:D:545:ARG:NH2	5:F:257:THR:HA	2.16	0.60
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.83	0.60
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.30	0.60
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.84	0.60
5:F:220:LEU:O	5:F:224:VAL:HG23	2.01	0.60
2:M:281:LEU:HD12	2:M:309:TYR:HB2	1.82	0.60
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.66	0.60
4:O:45:ARG:HD2	4:O:47:LYS:HE3	1.84	0.60
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.83	0.60
2:C:9:ILE:HD11	9:C:1162:HOH:O	2.01	0.60
2:C:54:ILE:HB	9:C:1122:HOH:O	2.01	0.60
2:C:317:VAL:HG22	9:C:1726:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:510:GLU:O	3:D:513:ILE:HD12	2.00	0.60
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.49	0.60
3:D:1130:ARG:HB2	3:D:1130:ARG:HH11	1.65	0.60
3:D:1287:GLU:HB2	9:D:9218:HOH:O	2.01	0.60
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.82	0.60
1:K:62:LEU:H	1:K:62:LEU:HD12	1.66	0.60
2:M:503:LEU:HB3	9:M:2107:HOH:O	2.01	0.60
2:M:573:ARG:HG3	2:M:698:ASP:O	2.00	0.60
2:M:1035:MET:HG2	3:N:707:THR:O	2.02	0.60
3:N:60:CYS:HB3	9:N:2111:HOH:O	2.02	0.60
3:N:546:ARG:HG3	9:N:9308:HOH:O	2.00	0.60
5:P:392:VAL:HA	9:P:5909:HOH:O	2.00	0.60
2:C:181:VAL:HB	9:C:1469:HOH:O	2.01	0.60
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.82	0.60
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.82	0.60
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.01	0.60
3:D:1152:GLU:HB3	9:D:9312:HOH:O	2.01	0.60
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.37	0.60
5:F:356:LYS:O	5:F:360:LYS:HG2	2.01	0.60
1:K:123:MET:O	1:K:125:PRO:HD3	2.01	0.60
1:K:175:ARG:HG2	9:K:4053:HOH:O	2.01	0.60
2:M:815:LEU:HB3	9:M:1820:HOH:O	2.01	0.60
2:M:905:ILE:H	2:M:905:ILE:CD1	2.01	0.60
3:N:420:VAL:HA	5:P:164:LYS:HD3	1.83	0.60
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.32	0.60
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.31	0.60
3:N:814:ALA:HB2	9:N:9899:HOH:O	2.01	0.60
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.31	0.60
4:O:86:GLN:O	4:O:90:GLU:HG3	2.02	0.60
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.83	0.60
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	2.16	0.60
4:E:60:ALA:O	4:E:63:TRP:HB2	2.02	0.60
2:M:13:ILE:HG22	9:M:1164:HOH:O	2.01	0.60
2:M:127:PHE:HB3	9:M:1515:HOH:O	2.00	0.60
2:M:157:ARG:HA	2:M:157:ARG:CZ	2.31	0.60
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.36	0.60
2:M:959:PRO:O	2:M:963:LEU:HD23	2.02	0.60
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.60
3:N:188:GLY:HA3	9:N:9221:HOH:O	2.00	0.60
3:N:608:SER:HA	9:N:9404:HOH:O	2.02	0.60
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:94:LEU:HD22	5:P:97:GLU:HB2	1.81	0.60
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.83	0.60
1:A:208:LEU:HD13	9:B:442:HOH:O	2.01	0.60
2:C:254:VAL:O	2:C:257:VAL:HG23	2.01	0.60
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.84	0.60
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.28	0.60
3:D:148:GLU:HG2	3:D:151:GLN:CD	2.27	0.60
3:D:694:VAL:HG13	9:D:9037:HOH:O	2.02	0.60
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.35	0.60
2:M:56:GLU:HB3	9:M:1232:HOH:O	2.00	0.60
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.16	0.60
3:N:57:GLU:HG3	3:N:64:LYS:HG2	1.83	0.60
3:N:783:ARG:HE	3:N:1029:ARG:HD2	1.67	0.60
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.84	0.60
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.82	0.60
5:P:287:THR:C	5:P:289:GLU:H	2.10	0.60
1:B:2:LEU:HD12	1:B:3:ASP:N	2.17	0.60
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.83	0.60
2:C:176:VAL:C	2:C:178:PRO:HD3	2.26	0.60
2:C:913:GLU:O	2:C:916:GLU:HB3	2.02	0.60
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.02	0.60
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.02	0.60
2:M:423:ALA:HB2	6:N:8002:STD:H10	1.82	0.60
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.00	0.60
3:N:961:LYS:HG2	9:N:9759:HOH:O	2.02	0.60
3:N:1124:GLN:N	3:N:1133:ARG:O	2.33	0.60
3:N:1441:GLN:NE2	3:N:1442:ASN:HB2	2.16	0.60
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.17	0.60
5:P:151:LEU:HD22	5:P:153:PRO:HD2	1.83	0.60
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.84	0.60
1:B:228:PRO:O	1:B:229:GLN:HG3	2.02	0.60
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.84	0.60
2:C:599:GLU:HG3	9:C:1839:HOH:O	2.01	0.60
2:C:901:TYR:HA	9:C:1258:HOH:O	2.02	0.60
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.84	0.60
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.01	0.60
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.17	0.60
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.82	0.60
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.02	0.60
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.83	0.60
5:F:166:LEU:O	5:F:171:LYS:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:352:GLU:O	5:F:356:LYS:HG3	2.02	0.60
5:F:420:ASP:O	5:F:422:LEU:HD23	2.02	0.60
1:K:158:ILE:HD11	9:K:4923:HOH:O	2.02	0.60
1:L:136:GLY:HA3	9:L:4988:HOH:O	2.00	0.60
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.29	0.60
3:N:1101:VAL:HG21	3:N:1424:VAL:CG2	2.27	0.60
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.02	0.60
5:P:321:ILE:HA	9:P:4225:HOH:O	2.01	0.60
2:C:263:ASP:HA	9:C:1161:HOH:O	2.00	0.60
2:C:483:VAL:HG23	9:C:1834:HOH:O	2.02	0.60
3:D:662:GLU:HB3	9:D:9278:HOH:O	2.01	0.60
5:F:305:GLU:O	5:F:309:LYS:HG3	2.01	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.82	0.60
2:M:411:SER:HA	2:M:452:ILE:HG23	1.83	0.60
2:M:546:LEU:HD22	2:M:565:GLN:HE22	1.66	0.60
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.84	0.60
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.15	0.60
3:N:491:LYS:HB2	9:N:2246:HOH:O	2.02	0.60
3:N:817:GLU:O	3:N:821:VAL:HG23	2.02	0.60
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.60
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.01	0.60
2:C:300:ASP:HB2	9:C:1479:HOH:O	2.01	0.59
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.83	0.59
3:D:396:VAL:HB	9:D:9961:HOH:O	1.99	0.59
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.67	0.59
3:D:1118:ILE:HG21	3:D:1346:ARG:NH2	2.16	0.59
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.17	0.59
3:D:1260:ILE:HG21	9:D:9360:HOH:O	2.01	0.59
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.84	0.59
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.17	0.59
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.67	0.59
2:M:113:VAL:HG12	9:M:1967:HOH:O	2.01	0.59
2:M:114:PHE:HB2	9:M:1431:HOH:O	2.01	0.59
2:M:114:PHE:HD1	2:M:114:PHE:H	1.47	0.59
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.17	0.59
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.83	0.59
3:N:628:ARG:HG2	3:N:744:GLN:NE2	2.17	0.59
3:N:963:TYR:HD2	3:N:1002:LYS:HB3	1.67	0.59
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.02	0.59
2:C:717:LEU:HD21	9:C:1599:HOH:O	2.02	0.59
3:D:813:LEU:HD12	9:D:9578:HOH:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:49:ARG:HB3	2:M:266:ARG:HH12	1.67	0.59
3:N:53:ILE:HG23	3:N:54:LYS:N	2.15	0.59
9:N:9942:HOH:O	4:O:80:VAL:HG21	2.02	0.59
1:A:41:ARG:HD3	9:C:1607:HOH:O	2.03	0.59
1:A:191:ASP:O	1:A:192:LEU:HD23	2.02	0.59
2:C:113:VAL:HG12	9:C:1672:HOH:O	2.01	0.59
2:C:342:ASP:O	2:C:346:VAL:HG23	2.02	0.59
2:C:605:LYS:HE2	2:C:610:ARG:HH12	1.67	0.59
2:C:742:VAL:HG11	9:C:1692:HOH:O	2.02	0.59
3:D:116:LEU:O	3:D:118:LEU:HG	2.01	0.59
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.99	0.59
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.32	0.59
5:F:151:LEU:HD11	9:F:834:HOH:O	2.02	0.59
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.37	0.59
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.84	0.59
2:M:498:GLN:O	2:M:501:THR:HG23	2.01	0.59
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.32	0.59
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.03	0.59
3:N:1289:LYS:HB2	9:N:9234:HOH:O	2.02	0.59
2:C:102:HIS:HB2	2:C:106:GLY:O	2.03	0.59
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.02	0.59
2:C:261:ILE:HD11	9:C:2158:HOH:O	2.02	0.59
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.85	0.59
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.27	0.59
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.84	0.59
3:D:822:ALA:HA	9:D:9977:HOH:O	2.02	0.59
3:D:1112:CYS:HB3	3:D:1201:CYS:SG	2.42	0.59
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.17	0.59
5:F:351:SER:O	5:F:355:GLU:HB2	2.02	0.59
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.37	0.59
2:M:196:LEU:CD2	2:M:200:LEU:HD11	2.29	0.59
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.83	0.59
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.82	0.59
5:P:158:GLU:HB2	9:P:3694:HOH:O	2.03	0.59
5:P:222:ARG:HA	9:P:3558:HOH:O	2.01	0.59
1:B:58:ILE:HB	1:B:61:VAL:HB	1.85	0.59
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.68	0.59
2:M:882:LEU:HD11	3:N:1038:LEU:HD22	1.84	0.59
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.84	0.59
3:N:637:LEU:HD11	3:N:642:CYS:N	2.17	0.59
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1464:GLU:HG2	9:N:9277:HOH:O	2.03	0.59
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.03	0.59
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.83	0.59
2:C:640:ARG:NH1	2:C:642:ARG:HH22	2.00	0.59
2:C:690:ILE:HG12	2:C:694:LEU:HD12	1.83	0.59
2:C:1043:TYR:CE2	3:D:763:MET:HA	2.38	0.59
3:D:67:ARG:HA	9:D:9049:HOH:O	2.02	0.59
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.83	0.59
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.28	0.59
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.85	0.59
3:D:1381:VAL:HB	3:D:1389:LEU:O	2.02	0.59
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.03	0.59
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.85	0.59
2:M:165:LEU:HD12	2:M:166:PRO:C	2.28	0.59
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.84	0.59
2:M:257:VAL:HG11	9:M:1540:HOH:O	2.01	0.59
2:M:301:GLU:HG2	9:M:1719:HOH:O	2.03	0.59
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.84	0.59
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.83	0.59
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.68	0.59
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.27	0.59
3:N:924:MET:HE1	4:O:10:PHE:HE1	1.68	0.59
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.49	0.59
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.33	0.59
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.16	0.59
3:N:1495:ILE:HG23	9:N:9045:HOH:O	2.02	0.59
1:A:36:LEU:O	1:A:39:PRO:HD2	2.03	0.59
1:A:145:ASP:HB3	9:A:453:HOH:O	2.01	0.59
1:A:206:THR:HG22	1:A:209:GLU:CG	2.32	0.59
2:C:49:ARG:HB2	2:C:49:ARG:NH1	2.12	0.59
2:C:959:PRO:O	2:C:963:LEU:HD23	2.03	0.59
3:D:530:VAL:N	3:D:534:ARG:O	2.31	0.59
3:D:663:GLU:HA	9:D:9822:HOH:O	2.02	0.59
3:D:1359:GLN:HB3	9:D:9147:HOH:O	2.02	0.59
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.85	0.59
3:N:593:ASN:CG	5:P:206:GLY:HA2	2.27	0.59
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.32	0.59
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.38	0.59
1:A:178:ALA:HB2	2:C:864:GLY:H	1.68	0.59
1:A:198:ARG:C	1:A:199:ILE:HD12	2.27	0.59
2:C:222:MET:HB3	9:C:1348:HOH:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:643:VAL:HB	9:C:1217:HOH:O	2.03	0.59
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.37	0.59
3:D:534:ARG:HG3	9:D:9100:HOH:O	2.03	0.59
3:D:537:THR:O	5:F:317:LEU:HB2	2.03	0.59
3:D:1063:GLU:HB3	9:D:9027:HOH:O	2.03	0.59
5:F:138:SER:O	5:F:141:VAL:HG12	2.02	0.59
2:M:140:ILE:HG23	2:M:333:ILE:HG13	1.85	0.59
2:M:151:ASP:HB3	9:M:1442:HOH:O	2.03	0.59
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.18	0.59
3:N:62:LYS:NZ	3:N:75:ARG:HD2	2.18	0.59
3:N:127:LEU:HD12	3:N:128:TYR:N	2.18	0.59
3:N:440:VAL:HG13	9:N:9604:HOH:O	2.01	0.59
3:N:548:ILE:HG23	9:N:9055:HOH:O	2.01	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
3:N:1141:GLU:HG2	3:N:1168:MET:HE1	1.84	0.59
2:C:244:PRO:CD	2:C:245:GLY:H	2.14	0.59
2:C:534:VAL:HB	2:C:538:GLN:CD	2.27	0.59
3:D:774:SER:C	3:D:776:GLU:H	2.11	0.59
3:D:887:ALA:HB1	3:D:893:GLU:HG3	1.84	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.83	0.59
2:M:669:GLY:C	2:M:670:GLN:HG3	2.28	0.59
2:M:1104:GLU:HA	3:N:6:ARG:NH1	2.17	0.59
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.03	0.59
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.17	0.59
1:A:207:PRO:HB2	9:A:444:HOH:O	2.03	0.59
2:C:572:ILE:HG23	2:C:703:ILE:HD13	1.85	0.59
2:C:626:ARG:H	2:C:639:GLN:HE21	1.49	0.59
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.03	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
3:D:369:ALA:HB3	9:D:9915:HOH:O	2.01	0.59
3:D:536:ALA:HA	9:D:9452:HOH:O	2.03	0.59
1:K:88:ARG:NE	1:K:121:GLU:HG2	2.15	0.59
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.85	0.59
2:M:187:ASN:HB2	9:M:1971:HOH:O	2.03	0.59
2:M:208:ALA:O	2:M:218:VAL:HG21	2.02	0.59
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.67	0.59
2:M:537:LYS:HG3	2:M:905:ILE:HD11	1.85	0.59
3:N:55:ASP:O	3:N:82:LYS:HA	2.03	0.59
3:N:1381:VAL:HG23	3:N:1391:GLU:O	2.03	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.51	0.58
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.33	0.58
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.32	0.58
2:M:439:CYS:HB3	2:M:442:GLU:HB2	1.85	0.58
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.43	0.58
3:N:529:GLN:HA	9:N:9510:HOH:O	2.02	0.58
3:N:948:THR:O	3:N:1019:PRO:HG2	2.03	0.58
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.38	0.58
1:A:53:VAL:HG11	1:A:82:LEU:HD13	1.84	0.58
9:B:433:HOH:O	3:D:813:LEU:HD21	2.03	0.58
2:C:433:THR:HG21	2:C:488:ALA:CB	2.33	0.58
2:C:820:ARG:HB2	9:C:1318:HOH:O	2.02	0.58
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.85	0.58
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.86	0.58
3:D:133:ILE:HG23	3:D:456:MET:SD	2.43	0.58
3:D:235:ALA:HB3	9:D:2396:HOH:O	2.03	0.58
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.38	0.58
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.85	0.58
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.39	0.58
1:K:20:TYR:HD2	1:K:21:GLY:N	2.01	0.58
1:K:101:LEU:HG	1:K:114:PHE:HA	1.84	0.58
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.38	0.58
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.86	0.58
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.85	0.58
3:N:546:ARG:HA	9:N:9149:HOH:O	2.02	0.58
3:N:681:ARG:HB3	3:N:681:ARG:HH11	1.68	0.58
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.10	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.58
9:C:1615:HOH:O	5:F:354:LEU:HD21	2.03	0.58
3:D:17:LYS:HD3	9:D:9746:HOH:O	2.03	0.58
9:D:2009:HOH:O	5:F:147:LEU:HD11	2.02	0.58
4:E:48:MET:CB	4:E:54:LEU:HB2	2.33	0.58
1:K:100:LEU:HD12	9:K:4767:HOH:O	2.02	0.58
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.66	0.58
2:M:13:ILE:HB	9:M:1979:HOH:O	2.02	0.58
2:M:716:LYS:HB2	9:M:1462:HOH:O	2.01	0.58
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.67	0.58
3:N:783:ARG:HE	3:N:1029:ARG:CD	2.16	0.58
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.85	0.58
3:N:875:THR:HG22	3:N:879:ARG:NE	2.17	0.58
1:B:212:ASN:O	1:B:215:VAL:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:209:ARG:O	2:C:213:ALA:HB2	2.03	0.58
2:C:235:LEU:HA	9:C:1222:HOH:O	2.03	0.58
3:D:598:ARG:HG2	3:D:598:ARG:HH11	1.67	0.58
1:K:100:LEU:HB3	9:K:3995:HOH:O	2.01	0.58
2:M:141:HIS:HB3	2:M:418:LEU:HG	1.84	0.58
2:M:191:PHE:HB3	2:M:241:LEU:HD13	1.84	0.58
3:N:119:SER:N	3:N:123:LEU:HB2	2.17	0.58
3:N:569:ASN:HD22	3:N:573:MET:HE1	1.67	0.58
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.84	0.58
1:A:191:ASP:HA	9:A:327:HOH:O	2.03	0.58
2:C:137:VAL:HG22	2:C:391:LEU:O	2.02	0.58
2:C:440:PRO:HB2	3:D:1074:SER:HB3	1.84	0.58
2:C:504:GLU:CD	2:C:509:ALA:HB2	2.29	0.58
2:C:512:ARG:HB2	9:C:1379:HOH:O	2.04	0.58
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.19	0.58
3:D:699:VAL:N	3:D:756:GLN:HE22	2.00	0.58
3:D:804:LEU:HB2	3:D:830:ALA:O	2.04	0.58
3:D:813:LEU:O	3:D:817:GLU:HB2	2.03	0.58
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.85	0.58
5:F:250:ALA:HA	9:F:629:HOH:O	2.04	0.58
5:F:403:LYS:HB3	9:F:714:HOH:O	2.03	0.58
1:L:110:LYS:HD2	1:L:112:ARG:NH1	2.18	0.58
2:M:294:GLU:HG3	9:M:1411:HOH:O	2.03	0.58
2:M:367:LEU:O	2:M:372:LEU:HD13	2.03	0.58
2:M:382:ILE:HD12	9:M:1347:HOH:O	2.03	0.58
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.04	0.58
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.32	0.58
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.69	0.58
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.85	0.58
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.86	0.58
5:P:181:GLU:O	5:P:184:ARG:HB3	2.03	0.58
5:P:342:VAL:HG21	9:P:6462:HOH:O	2.01	0.58
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.85	0.58
2:C:112:GLU:HG3	9:C:1263:HOH:O	2.03	0.58
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.85	0.58
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.86	0.58
3:D:542:ASP:O	3:D:546:ARG:HG2	2.04	0.58
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.39	0.58
3:N:1101:VAL:HG13	3:N:1428:ALA:HB2	1.85	0.58
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.29	0.58
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:42:PRO:HG3	9:O:4652:HOH:O	2.03	0.58
5:P:271:LEU:HD23	5:P:291:ILE:HD11	1.86	0.58
2:C:441:VAL:HG13	2:C:559:LEU:HA	1.84	0.58
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.12	0.58
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.86	0.58
9:C:1403:HOH:O	5:F:373:LYS:HB3	2.03	0.58
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.84	0.58
3:D:178:LEU:HD21	9:D:9048:HOH:O	2.03	0.58
3:D:204:LEU:HD12	9:D:2356:HOH:O	2.04	0.58
3:D:209:ARG:CZ	3:D:397:LYS:HG3	2.33	0.58
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.32	0.58
3:D:662:GLU:CD	3:D:669:ASN:HA	2.28	0.58
3:D:702:LEU:HB3	3:D:745:MET:HE2	1.85	0.58
3:D:965:GLU:O	3:D:968:ASP:HB2	2.04	0.58
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.03	0.58
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.85	0.58
1:L:91:ASN:H	1:L:94:LEU:HD12	1.69	0.58
2:M:21:ILE:H	2:M:21:ILE:HD12	1.68	0.58
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.86	0.58
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.85	0.58
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.85	0.58
3:N:971:LEU:HG	3:N:975:GLU:OE2	2.01	0.58
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.86	0.58
2:C:598:GLU:O	2:C:651:LYS:HG3	2.04	0.58
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.85	0.58
3:D:6:ARG:HB2	3:D:6:ARG:NH1	2.19	0.58
3:D:1045:MET:HA	3:D:1045:MET:HE3	1.86	0.58
2:M:134:ARG:NH1	2:M:387:SER:HA	2.19	0.58
2:M:379:GLU:HA	9:M:1347:HOH:O	2.03	0.58
2:M:1054:THR:HG23	9:M:1191:HOH:O	2.03	0.58
3:N:119:SER:H	3:N:123:LEU:HD13	1.69	0.58
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.86	0.58
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.86	0.58
1:A:101:LEU:HG	1:A:114:PHE:HA	1.86	0.58
1:B:83:LYS:HE3	1:B:167:VAL:HG12	1.86	0.58
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.84	0.58
2:C:238:LEU:HB2	9:C:1222:HOH:O	2.02	0.58
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.84	0.58
3:D:850:LEU:HD12	3:D:850:LEU:H	1.69	0.58
3:D:924:MET:O	3:D:927:THR:HB	2.04	0.58
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:230:LYS:HB2	9:F:771:HOH:O	2.03	0.58
5:F:247:ILE:HG12	9:F:482:HOH:O	2.04	0.58
5:F:264:MET:HB3	9:F:624:HOH:O	2.03	0.58
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.68	0.58
2:M:233:GLU:HG2	9:M:1408:HOH:O	2.04	0.58
2:M:484:VAL:HA	9:M:1294:HOH:O	2.04	0.58
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.86	0.58
2:M:1012:PRO:HB3	9:M:1930:HOH:O	2.03	0.58
2:M:1018:GLN:HG3	2:M:1060:ILE:HD13	1.84	0.58
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.85	0.58
3:N:120:ALA:HB1	9:N:9285:HOH:O	2.03	0.58
3:N:149:LYS:HA	9:N:9092:HOH:O	2.03	0.58
3:N:555:LYS:HB3	9:P:6985:HOH:O	2.04	0.58
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.03	0.58
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.86	0.58
5:P:317:LEU:O	5:P:329:TYR:HB3	2.04	0.58
1:A:189:ARG:HB2	9:A:371:HOH:O	2.04	0.58
1:B:5:LYS:O	1:B:8:ALA:HB2	2.04	0.58
1:B:218:LEU:O	1:B:222:LEU:HG	2.03	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.04	0.58
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.84	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
3:D:193:PRO:HD3	9:D:9827:HOH:O	2.03	0.58
1:K:186:LEU:HB3	1:K:192:LEU:HD11	1.86	0.58
9:K:4223:HOH:O	1:L:43:ILE:HD11	2.03	0.58
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.27	0.58
2:M:108:ILE:H	2:M:108:ILE:HD12	1.68	0.58
2:M:227:PHE:HD2	2:M:230:ARG:HH21	1.51	0.58
2:M:889:HIS:CE1	3:N:951:ILE:HB	2.38	0.58
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.85	0.58
3:N:1314:LYS:HZ1	3:N:1317:ASP:N	2.01	0.58
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.69	0.58
1:B:16:GLN:HB3	9:B:447:HOH:O	2.04	0.57
1:B:132:LEU:HD13	1:B:138:LEU:HD13	1.86	0.57
2:C:397:GLU:HG2	2:C:403:SER:HB3	1.84	0.57
2:C:503:LEU:HD13	2:C:507:ARG:O	2.04	0.57
2:C:1031:ARG:HD3	3:D:619:LEU:CD2	2.34	0.57
9:C:1170:HOH:O	3:D:648:MET:HE3	2.03	0.57
3:D:28:LYS:HG3	3:D:29:PRO:HD2	1.84	0.57
3:D:438:ASP:HB2	9:D:9161:HOH:O	2.04	0.57
3:D:527:MET:HB3	9:D:9990:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:834:THR:HB	3:D:838:ARG:HB3	1.85	0.57
3:D:877:PRO:O	3:D:880:ILE:HG22	2.03	0.57
3:D:1307:LYS:H	3:D:1307:LYS:CD	2.17	0.57
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.69	0.57
1:K:209:GLU:O	1:K:213:GLN:HG3	2.03	0.57
2:M:594:ALA:HB1	2:M:654:LEU:HD12	1.86	0.57
3:N:106:LYS:HE2	9:N:9886:HOH:O	2.04	0.57
3:N:131:LYS:HD2	5:P:83:GLN:HE21	1.68	0.57
3:N:685:ASP:HB3	9:N:9661:HOH:O	2.03	0.57
3:N:1493:LYS:HA	3:N:1496:GLU:OE2	2.04	0.57
5:P:120:THR:HG21	5:P:122:LEU:HD22	1.86	0.57
5:P:166:LEU:O	5:P:171:LYS:HB2	2.04	0.57
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.04	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.87	0.57
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.04	0.57
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.34	0.57
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.19	0.57
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.86	0.57
1:K:88:ARG:HD2	1:K:88:ARG:O	2.04	0.57
2:M:51:THR:OG1	2:M:348:LEU:HD23	2.03	0.57
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.86	0.57
2:M:648:ARG:HG2	9:M:2052:HOH:O	2.03	0.57
2:M:926:PHE:O	2:M:930:LYS:HG3	2.04	0.57
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.86	0.57
3:N:710:ARG:HH22	3:N:1210:SER:CB	2.17	0.57
3:N:911:LEU:O	3:N:915:VAL:HG23	2.04	0.57
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.86	0.57
4:O:23:VAL:HG21	4:O:65:MET:HG2	1.85	0.57
1:A:127:LEU:HD12	1:A:128:HIS:N	2.18	0.57
1:B:205:VAL:HG11	9:B:348:HOH:O	2.03	0.57
2:C:257:VAL:HG12	2:C:263:ASP:OD1	2.04	0.57
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.85	0.57
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.34	0.57
2:C:666:LEU:HD23	2:C:668:LEU:HD11	1.84	0.57
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.20	0.57
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.20	0.57
3:D:560:GLN:HB2	9:F:762:HOH:O	2.04	0.57
3:D:871:LYS:HD3	3:D:873:LEU:HD21	1.85	0.57
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.05	0.57
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.86	0.57
5:F:198:ILE:HA	9:F:560:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:176:ARG:NH2	3:N:884:ARG:HD3	2.19	0.57
2:M:341:THR:O	2:M:345:ARG:HG2	2.04	0.57
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.85	0.57
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.33	0.57
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.39	0.57
2:M:881:ASN:HD22	2:M:881:ASN:H	1.51	0.57
2:M:1007:ALA:HB2	3:N:648:MET:HE2	1.85	0.57
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.19	0.57
3:N:197:SER:HA	9:N:9482:HOH:O	2.04	0.57
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.44	0.57
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.35	0.57
2:C:418:LEU:H	2:C:418:LEU:HD22	1.69	0.57
2:C:588:VAL:HG12	2:C:666:LEU:HD12	1.86	0.57
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.86	0.57
2:C:1073:GLY:HA2	9:C:1177:HOH:O	2.04	0.57
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.40	0.57
3:D:131:LYS:HE3	5:F:83:GLN:HE22	1.69	0.57
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.87	0.57
1:L:16:GLN:HG3	9:L:6332:HOH:O	2.05	0.57
2:M:159:ILE:HD11	9:M:1995:HOH:O	2.03	0.57
2:M:999:HIS:HB3	2:M:1003:ASP:OD1	2.05	0.57
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.07	0.57
3:N:141:ILE:HB	9:N:9457:HOH:O	2.04	0.57
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.34	0.57
3:N:800:LYS:HG2	9:N:9126:HOH:O	2.04	0.57
4:O:41:GLU:O	4:O:45:ARG:HG2	2.05	0.57
2:C:338:GLU:O	2:C:341:THR:HG22	2.04	0.57
2:C:924:VAL:HG23	9:C:1396:HOH:O	2.03	0.57
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.84	0.57
3:D:476:GLU:HG2	9:D:9334:HOH:O	2.05	0.57
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.86	0.57
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.04	0.57
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.34	0.57
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.86	0.57
5:F:105:LYS:HE3	9:F:642:HOH:O	2.05	0.57
2:M:864:GLY:HA2	9:M:1403:HOH:O	2.04	0.57
2:M:1051:GLU:HG3	2:M:1055:LEU:HD12	1.87	0.57
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.39	0.57
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.86	0.57
3:N:183:GLU:O	3:N:186:VAL:HG12	2.04	0.57
3:N:455:ARG:NH1	3:N:463:GLN:HG3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.90	0.57
5:P:290:GLU:HG3	9:P:5633:HOH:O	2.03	0.57
2:C:89:THR:HA	2:C:129:ILE:O	2.05	0.57
2:C:313:LEU:HD13	2:C:321:GLU:O	2.03	0.57
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.17	0.57
2:C:342:ASP:HA	2:C:345:ARG:HG2	1.86	0.57
2:C:524:VAL:HB	9:C:1200:HOH:O	2.02	0.57
2:C:630:ARG:HH22	2:C:706:GLU:C	2.12	0.57
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.29	0.57
2:C:732:ALA:HB3	9:C:1156:HOH:O	2.03	0.57
2:C:935:GLY:HA2	9:C:1635:HOH:O	2.04	0.57
3:D:1061:PHE:HE1	3:D:1065:LEU:HD23	1.68	0.57
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.85	0.57
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.70	0.57
5:F:403:LYS:HD2	9:F:436:HOH:O	2.05	0.57
1:K:127:LEU:HD12	1:K:128:HIS:N	2.20	0.57
2:M:218:VAL:O	2:M:221:LEU:HG	2.05	0.57
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.04	0.57
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.03	0.57
2:M:1059:ASP:CG	2:M:1062:GLY:HA3	2.29	0.57
2:M:1085:PHE:HD2	3:N:1468:LEU:HA	1.69	0.57
3:N:171:LEU:HD13	3:N:389:GLU:C	2.29	0.57
3:N:737:ASN:HA	9:N:9235:HOH:O	2.04	0.57
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.28	0.57
4:O:69:LEU:O	4:O:69:LEU:HD23	2.03	0.57
1:A:123:MET:C	1:A:125:PRO:HD3	2.29	0.57
1:B:30:ARG:HB2	1:B:30:ARG:HH11	1.70	0.57
1:B:190:THR:HG22	9:B:367:HOH:O	2.04	0.57
2:C:264:PRO:HB3	2:C:289:THR:CB	2.34	0.57
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.05	0.57
2:C:583:LEU:O	2:C:587:VAL:HG23	2.04	0.57
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.39	0.57
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.87	0.57
2:C:1012:PRO:HG2	9:C:2108:HOH:O	2.05	0.57
3:D:53:ILE:O	3:D:53:ILE:HG12	2.03	0.57
3:D:525:ARG:HA	3:D:538:SER:HB3	1.87	0.57
4:E:26:ARG:HE	4:E:30:LEU:HD11	1.68	0.57
5:F:401:GLU:O	5:F:405:LEU:HB2	2.04	0.57
1:K:219:ARG:HH22	1:L:223:THR:CG2	2.11	0.57
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.87	0.57
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.35	0.57
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.87	0.57
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.69	0.57
3:N:443:VAL:HG12	3:N:445:ARG:HD2	1.87	0.57
3:N:486:ARG:HG2	9:N:2235:HOH:O	2.04	0.57
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.87	0.57
3:N:1111:ASP:HB2	3:N:1203:LYS:CG	2.32	0.57
4:O:32:ARG:HA	9:O:4513:HOH:O	2.05	0.57
4:O:72:ARG:HA	9:O:5797:HOH:O	2.05	0.57
5:P:361:LEU:HD23	5:P:362:SER:H	1.69	0.57
1:B:86:VAL:HA	9:B:479:HOH:O	2.04	0.57
1:B:102:LYS:HE2	1:B:104:GLU:CD	2.30	0.57
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.86	0.57
2:C:661:SER:HB2	9:C:2008:HOH:O	2.04	0.57
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.85	0.57
3:D:420:VAL:HG23	9:D:9536:HOH:O	2.04	0.57
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.87	0.57
1:K:67:THR:OG1	2:M:609:ASN:ND2	2.37	0.57
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.34	0.57
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.86	0.57
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.70	0.57
5:P:409:LYS:HG3	5:P:410:TYR:N	2.19	0.57
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.20	0.57
1:B:226:SER:HB3	9:B:512:HOH:O	2.04	0.57
2:C:122:THR:HG21	9:C:1356:HOH:O	2.04	0.57
2:C:184:MET:HG2	9:C:1676:HOH:O	2.04	0.57
2:C:859:PRO:O	2:C:867:VAL:HG22	2.05	0.57
3:D:141:ILE:HG12	3:D:449:SER:HA	1.86	0.57
3:D:574:LEU:O	3:D:578:VAL:HG23	2.05	0.57
3:D:1314:LYS:HZ3	3:D:1317:ASP:H	1.53	0.57
5:F:115:LYS:HE2	5:F:118:GLU:OE2	2.04	0.57
5:F:142:ARG:CZ	5:F:150:THR:HG21	2.35	0.57
5:F:321:ILE:HG22	5:F:322:GLY:H	1.69	0.57
2:M:397:GLU:HG3	2:M:633:GLN:NE2	2.20	0.57
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.19	0.57
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.70	0.57
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.85	0.57
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.05	0.57
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.87	0.57
1:A:5:LYS:O	1:A:8:ALA:HB2	2.05	0.57
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.70	0.57
2:C:906:PHE:HB2	9:C:1288:HOH:O	2.04	0.57
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.05	0.57
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.05	0.57
3:D:81:THR:HG22	3:D:82:LYS:H	1.70	0.57
3:D:478:LEU:HD13	3:D:1388:ARG:HH22	1.68	0.57
3:D:598:ARG:HG3	3:D:599:PRO:N	2.20	0.57
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.87	0.57
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.33	0.57
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.40	0.57
1:K:88:ARG:HE	1:K:121:GLU:CG	2.15	0.57
2:M:72:ARG:NH2	2:M:112:GLU:HG3	2.20	0.57
2:M:286:SER:CB	2:M:299:LYS:HE3	2.34	0.57
2:M:513:VAL:HG13	9:M:1395:HOH:O	2.05	0.57
2:M:810:ASP:HB2	9:M:1758:HOH:O	2.05	0.57
1:B:206:THR:CG2	1:B:209:GLU:H	2.18	0.56
2:C:644:VAL:HG11	9:C:1903:HOH:O	2.04	0.56
2:C:773:LEU:O	2:C:777:ILE:HG13	2.05	0.56
2:C:971:LYS:HA	2:C:988:VAL:HA	1.87	0.56
3:D:210:ARG:HG3	3:D:398:ALA:H	1.70	0.56
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.69	0.56
4:E:48:MET:N	4:E:54:LEU:HB2	2.19	0.56
4:E:73:LEU:HG	9:E:100:HOH:O	2.03	0.56
5:F:171:LYS:HD2	5:F:174:LEU:HD12	1.86	0.56
1:L:28:LEU:O	1:L:192:LEU:HD23	2.05	0.56
1:L:112:ARG:HH12	1:L:126:ASP:HA	1.69	0.56
2:M:162:ILE:O	2:M:164:PRO:HD3	2.04	0.56
2:M:676:ILE:O	2:M:676:ILE:HG23	2.05	0.56
2:M:957:LYS:HG3	9:M:1885:HOH:O	2.05	0.56
2:M:984:GLU:O	3:N:946:GLY:HA3	2.04	0.56
3:N:19:ARG:HB3	9:N:9131:HOH:O	2.04	0.56
3:N:625:TYR:O	3:N:749:VAL:HG23	2.04	0.56
3:N:774:SER:C	3:N:776:GLU:H	2.13	0.56
1:B:52:ALA:HB1	9:B:364:HOH:O	2.04	0.56
2:C:146:VAL:HG13	2:C:161:SER:O	2.05	0.56
2:C:172:ILE:H	2:C:172:ILE:HD12	1.70	0.56
2:C:565:GLN:HG2	2:C:995:MET:HE1	1.85	0.56
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.41	0.56
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.87	0.56
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.87	0.56
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:293:GLU:HG2	9:F:663:HOH:O	2.05	0.56
1:L:67:THR:HG23	9:L:5452:HOH:O	2.06	0.56
2:M:281:LEU:CD1	2:M:306:THR:HA	2.34	0.56
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.56
1:A:206:THR:CG2	1:A:209:GLU:H	2.18	0.56
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.40	0.56
2:C:41:ASN:O	2:C:46:ALA:HB2	2.06	0.56
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.21	0.56
3:D:18:ILE:HG21	3:D:516:ALA:O	2.05	0.56
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.68	0.56
3:D:530:VAL:HB	3:D:534:ARG:CB	2.35	0.56
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.87	0.56
3:D:1314:LYS:HD2	9:D:9848:HOH:O	2.03	0.56
5:F:127:ILE:HG12	9:F:445:HOH:O	2.05	0.56
5:F:136:LEU:HD11	9:F:879:HOH:O	2.05	0.56
5:F:363:GLU:HG3	9:F:548:HOH:O	2.05	0.56
1:L:36:LEU:O	1:L:39:PRO:HD2	2.05	0.56
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.05	0.56
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.86	0.56
2:M:184:MET:C	2:M:184:MET:HE2	2.29	0.56
2:M:288:ARG:HB3	9:M:1410:HOH:O	2.05	0.56
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.88	0.56
2:M:879:ARG:NH1	3:N:1029:ARG:HH12	2.02	0.56
3:N:8:VAL:HG23	9:N:9563:HOH:O	2.04	0.56
3:N:409:VAL:HG23	9:N:9521:HOH:O	2.06	0.56
3:N:728:LEU:HD22	3:N:745:MET:SD	2.45	0.56
1:B:139:ASN:HB2	9:B:334:HOH:O	2.06	0.56
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.14	0.56
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.21	0.56
3:D:817:GLU:O	3:D:821:VAL:HG23	2.05	0.56
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.87	0.56
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.05	0.56
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.05	0.56
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.86	0.56
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.41	0.56
2:M:89:THR:HA	2:M:129:ILE:O	2.06	0.56
2:M:145:GLY:O	2:M:163:ILE:HG23	2.06	0.56
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.87	0.56
5:P:132:ARG:NE	5:P:184:ARG:HH12	2.04	0.56
5:P:292:ALA:HB1	5:P:299:TRP:O	2.06	0.56
1:B:144:VAL:HG12	9:B:467:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.87	0.56
2:C:338:GLU:HA	2:C:341:THR:HG22	1.88	0.56
2:C:941:VAL:HG22	9:C:1556:HOH:O	2.05	0.56
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.87	0.56
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.05	0.56
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.87	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.04	0.56
3:D:460:ALA:O	3:D:464:LEU:HG	2.05	0.56
3:D:462:GLN:HG2	9:D:9526:HOH:O	2.06	0.56
3:D:890:VAL:HG22	3:D:926:LYS:HD3	1.87	0.56
3:D:984:THR:HG23	3:D:987:GLU:H	1.70	0.56
3:D:1277:ILE:HG23	9:D:9898:HOH:O	2.05	0.56
1:L:100:LEU:O	1:L:115:LEU:HG	2.05	0.56
2:M:262:ALA:HA	9:M:1860:HOH:O	2.06	0.56
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.06	0.56
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.06	0.56
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.40	0.56
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.56
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.41	0.56
2:C:949:LYS:HA	3:D:798:GLU:OE1	2.06	0.56
3:D:996:TRP:HA	3:D:999:THR:HG22	1.86	0.56
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.71	0.56
3:D:1476:THR:C	3:D:1478:SER:H	2.13	0.56
5:F:87:GLU:HB3	9:F:725:HOH:O	2.04	0.56
5:F:361:LEU:HD23	5:F:362:SER:N	2.16	0.56
2:M:157:ARG:HB3	9:M:1582:HOH:O	2.04	0.56
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.71	0.56
2:M:545:ASN:O	2:M:581:THR:HG21	2.06	0.56
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.88	0.56
3:N:1290:LEU:HA	9:N:9828:HOH:O	2.06	0.56
5:P:292:ALA:HA	5:P:299:TRP:HB3	1.88	0.56
5:P:321:ILE:HB	5:P:327:SER:OG	2.05	0.56
1:A:180:GLN:HB3	9:A:522:HOH:O	2.05	0.56
2:C:70:GLU:HB3	9:C:1380:HOH:O	2.04	0.56
2:C:889:HIS:HE1	3:D:951:ILE:H	1.53	0.56
3:D:483:HIS:ND1	3:D:483:HIS:N	2.54	0.56
2:M:447:ALA:HB2	9:M:1391:HOH:O	2.04	0.56
3:N:75:ARG:HB3	9:N:9139:HOH:O	2.05	0.56
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.36	0.56
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.88	0.56
1:A:42:ARG:HH21	1:B:34:VAL:HB	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:24:GLU:OE1	2:C:27:ARG:HD3	2.06	0.56
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.35	0.56
2:C:305:PRO:HA	2:C:308:ARG:NE	2.21	0.56
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.41	0.56
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.35	0.56
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.35	0.56
3:D:500:ARG:HG3	3:D:500:ARG:HH11	1.70	0.56
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.05	0.56
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.53	0.56
1:L:24:VAL:HG13	9:L:6021:HOH:O	2.05	0.56
2:M:216:GLU:HG2	2:M:217:LEU:HD23	1.88	0.56
2:M:244:PRO:CD	2:M:245:GLY:H	2.18	0.56
3:N:62:LYS:HD2	3:N:75:ARG:NH1	2.20	0.56
3:N:472:ALA:HA	9:N:9634:HOH:O	2.05	0.56
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.34	0.56
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.04	0.56
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.87	0.56
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.86	0.56
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.35	0.56
3:D:523:ASP:O	3:D:526:PRO:HG3	2.06	0.56
3:D:869:MET:HE3	9:D:9791:HOH:O	2.06	0.56
3:D:907:GLU:O	3:D:911:LEU:HD13	2.06	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.31	0.56
1:K:18:ARG:O	1:K:207:PRO:HD3	2.06	0.56
2:M:469:THR:OG1	2:M:470:PRO:HD2	2.05	0.56
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.71	0.56
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.35	0.56
3:N:554:LEU:O	3:N:558:LEU:HG	2.06	0.56
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.04	0.56
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.87	0.56
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.56
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.71	0.56
3:D:1049:SER:HB3	9:D:9373:HOH:O	2.06	0.56
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	1.88	0.56
1:L:73:GLU:HB3	1:L:77:GLU:HG2	1.88	0.56
2:M:154:ARG:NH2	2:M:156:GLY:HA3	2.12	0.56
2:M:173:ASP:HB2	2:M:185:LYS:NZ	2.21	0.56
2:M:176:VAL:C	2:M:178:PRO:HD3	2.31	0.56
2:M:368:THR:HB	2:M:369:PRO:HD3	1.88	0.56
2:M:371:LYS:HB2	9:M:1144:HOH:O	2.05	0.56
2:M:620:LEU:HD21	9:M:1351:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1105:ILE:HD11	3:N:1374:GLN:CD	2.31	0.56
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.14	0.56
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.21	0.56
5:P:352:GLU:O	5:P:356:LYS:HG3	2.06	0.56
2:C:12:VAL:HG21	9:C:1844:HOH:O	2.05	0.55
2:C:640:ARG:HG3	9:C:1776:HOH:O	2.06	0.55
2:C:671:ASN:N	2:C:671:ASN:ND2	2.45	0.55
3:D:206:ARG:O	3:D:206:ARG:HD3	2.06	0.55
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.89	0.55
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.30	0.55
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.41	0.55
2:M:361:MET:HA	9:M:1201:HOH:O	2.06	0.55
2:M:707:ARG:HG3	2:M:826:TYR:CD2	2.41	0.55
2:M:916:GLU:HG2	9:M:1287:HOH:O	2.06	0.55
2:M:1039:ALA:O	2:M:1043:TYR:HD1	1.88	0.55
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.05	0.55
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.71	0.55
3:N:119:SER:H	3:N:123:LEU:CD1	2.20	0.55
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.89	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
5:P:94:LEU:HB2	5:P:98:GLU:OE2	2.06	0.55
5:P:113:ILE:HA	5:P:116:LEU:HD12	1.87	0.55
2:C:193:LEU:HD23	2:C:307:LEU:HD11	1.88	0.55
2:C:232:GLU:HB2	9:C:1510:HOH:O	2.06	0.55
2:C:249:LYS:HB3	9:C:1545:HOH:O	2.06	0.55
2:C:250:ARG:HG2	2:C:253:ALA:HB3	1.89	0.55
3:D:27:GLU:O	3:D:28:LYS:HD2	2.06	0.55
3:D:153:LEU:HD11	3:D:158:TYR:N	2.20	0.55
3:D:211:VAL:CG1	3:D:393:ILE:HG13	2.37	0.55
3:D:699:VAL:H	3:D:756:GLN:HE22	1.52	0.55
3:D:1224:VAL:HG11	9:D:2435:HOH:O	2.04	0.55
5:F:125:ASP:HA	5:F:128:ARG:CZ	2.37	0.55
5:F:255:ALA:HB3	9:F:662:HOH:O	2.06	0.55
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.67	0.55
2:M:63:GLY:O	2:M:103:LYS:HE2	2.06	0.55
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.33	0.55
3:N:1201:CYS:HB3	9:N:9751:HOH:O	2.07	0.55
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.05	0.55
4:O:59:ASN:HB2	9:O:3650:HOH:O	2.06	0.55
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.71	0.55
2:C:193:LEU:HA	9:C:1346:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:230:TRP:HA	9:D:9066:HOH:O	2.06	0.55
3:D:395:VAL:HG23	9:D:9389:HOH:O	2.06	0.55
3:D:409:VAL:HG21	9:F:551:HOH:O	2.06	0.55
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.20	0.55
3:D:923:GLY:N	9:D:9237:HOH:O	2.38	0.55
3:D:1310:ARG:H	3:D:1310:ARG:CD	2.19	0.55
1:K:95:GLN:HG3	9:K:3698:HOH:O	2.07	0.55
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.88	0.55
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.07	0.55
3:N:16:GLU:HB2	9:N:2292:HOH:O	2.06	0.55
3:N:629:SER:HB3	9:N:9650:HOH:O	2.04	0.55
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.87	0.55
5:P:166:LEU:HA	9:P:3458:HOH:O	2.06	0.55
5:P:385:GLU:O	5:P:397:ILE:HD13	2.06	0.55
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.72	0.55
1:A:19:GLU:HB2	9:A:348:HOH:O	2.05	0.55
1:B:38:ASN:HB3	9:B:384:HOH:O	2.05	0.55
2:C:713:ARG:HD3	9:C:1752:HOH:O	2.06	0.55
2:C:983:ILE:HG23	3:D:944:THR:O	2.06	0.55
3:D:152:LEU:HD21	9:D:2148:HOH:O	2.06	0.55
3:D:152:LEU:HD23	3:D:152:LEU:H	1.70	0.55
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.88	0.55
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.04	0.55
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.41	0.55
5:F:151:LEU:HD21	9:F:614:HOH:O	2.06	0.55
5:F:375:LEU:HD13	9:F:731:HOH:O	2.05	0.55
2:M:332:ARG:HG3	9:M:1433:HOH:O	2.04	0.55
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.88	0.55
2:M:1102:LEU:HB2	3:N:7:LYS:CG	2.31	0.55
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.07	0.55
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.40	0.55
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.70	0.55
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.54	0.55
5:P:272:SER:HB3	9:P:3990:HOH:O	2.06	0.55
5:P:321:ILE:HG22	5:P:322:GLY:N	2.21	0.55
5:P:369:LEU:O	5:P:373:LYS:HB2	2.07	0.55
1:B:19:GLU:HG3	1:B:201:THR:O	2.06	0.55
1:B:211:LEU:O	1:B:215:VAL:HG13	2.06	0.55
2:C:149:THR:HG22	9:C:1612:HOH:O	2.07	0.55
2:C:204:GLN:NE2	2:C:222:MET:HA	2.21	0.55
2:C:285:LEU:HD12	2:C:288:ARG:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:610:ARG:C	2:C:611:ILE:HD12	2.32	0.55
2:C:660:ALA:HB1	2:C:667:ALA:O	2.07	0.55
9:C:1541:HOH:O	3:D:1471:LEU:HA	2.07	0.55
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.87	0.55
3:D:156:GLU:CD	3:D:156:GLU:N	2.64	0.55
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.55
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.07	0.55
3:D:1008:PHE:HB3	9:D:2325:HOH:O	2.05	0.55
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.89	0.55
2:M:860:HIS:N	9:M:1226:HOH:O	2.39	0.55
3:N:225:LEU:HA	9:N:9604:HOH:O	2.07	0.55
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.72	0.55
3:N:1362:LYS:HD3	9:N:9859:HOH:O	2.07	0.55
5:P:244:ARG:HG3	5:P:244:ARG:NH1	2.21	0.55
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.86	0.55
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.88	0.55
3:D:1468:LEU:O	3:D:1468:LEU:HD23	2.05	0.55
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.89	0.55
5:F:287:THR:C	5:F:289:GLU:H	2.14	0.55
5:F:363:GLU:HA	5:F:367:MET:CE	2.26	0.55
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.41	0.55
2:M:677:MET:HE1	2:M:983:ILE:HD13	1.89	0.55
2:M:758:ARG:HB3	2:M:788:THR:O	2.06	0.55
2:M:928:LYS:HB3	9:M:1297:HOH:O	2.06	0.55
2:M:1106:ASP:HB3	9:M:1439:HOH:O	2.06	0.55
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.07	0.55
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.89	0.55
3:N:1362:LYS:HE3	9:N:9889:HOH:O	2.06	0.55
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.06	0.55
5:P:335:ASP:OD1	5:P:338:LEU:HB2	2.07	0.55
5:P:351:SER:O	5:P:355:GLU:HB2	2.07	0.55
1:A:26:GLU:HB3	9:A:331:HOH:O	2.06	0.55
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.40	0.55
2:C:535:SER:H	2:C:538:GLN:NE2	2.04	0.55
3:D:135:LEU:HD11	3:D:139:GLY:HA3	1.88	0.55
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.71	0.55
5:F:274:THR:O	5:F:278:LEU:HG	2.06	0.55
5:F:364:ARG:HB3	9:F:765:HOH:O	2.07	0.55
1:L:73:GLU:HB3	1:L:77:GLU:CG	2.36	0.55
2:M:841:ASN:C	2:M:841:ASN:HD22	2.14	0.55
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:422:ALA:H	3:N:427:VAL:CG1	2.19	0.55
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.37	0.55
3:N:543:LEU:HD23	9:N:9308:HOH:O	2.07	0.55
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.07	0.55
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.07	0.55
5:P:105:LYS:NZ	5:P:179:GLU:HB3	2.22	0.55
5:P:192:LEU:O	5:P:196:VAL:HG23	2.07	0.55
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.01	0.55
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.42	0.55
2:C:320:HIS:HB3	9:C:2145:HOH:O	2.06	0.55
2:C:437:ARG:HE	2:C:469:THR:N	2.05	0.55
2:C:802:ARG:HG2	9:C:1991:HOH:O	2.07	0.55
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.87	0.55
3:D:380:GLU:O	3:D:382:GLU:N	2.39	0.55
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.88	0.55
2:M:146:VAL:HG13	2:M:161:SER:O	2.07	0.55
2:M:569:VAL:HG11	2:M:996:LYS:HZ3	1.71	0.55
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.06	0.55
3:N:380:GLU:O	3:N:382:GLU:N	2.39	0.55
3:N:973:GLN:HA	3:N:976:GLN:NE2	2.18	0.55
3:N:1045:MET:HB2	9:N:2112:HOH:O	2.06	0.55
3:N:1282:ARG:HD3	3:N:1295:GLU:OE1	2.07	0.55
3:N:1372:VAL:HG23	3:N:1375:MET:HE3	1.88	0.55
5:P:261:PRO:HB3	9:P:5968:HOH:O	2.07	0.55
1:A:9:PRO:HB3	1:A:25:LEU:HD11	1.89	0.55
1:B:184:THR:HB	1:B:194:LYS:NZ	2.22	0.55
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.88	0.55
2:C:302:VAL:HG12	9:C:1479:HOH:O	2.06	0.55
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.89	0.55
2:C:360:LEU:HD12	9:C:1422:HOH:O	2.06	0.55
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.35	0.55
3:D:1164:ARG:HA	9:D:9172:HOH:O	2.06	0.55
5:F:107:GLU:HG2	9:F:554:HOH:O	2.07	0.55
1:K:104:GLU:HG2	1:K:105:GLY:N	2.21	0.55
1:K:211:LEU:O	1:K:215:VAL:HG22	2.07	0.55
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.21	0.55
2:M:173:ASP:O	2:M:184:MET:HA	2.06	0.55
2:M:319:GLY:HA3	9:M:1194:HOH:O	2.06	0.55
2:M:607:ASP:HB3	2:M:609:ASN:H	1.71	0.55
2:M:742:VAL:HG12	2:M:743:VAL:N	2.22	0.55
3:N:68:PHE:O	3:N:71:LYS:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1058:ARG:HG3	3:N:1058:ARG:HH11	1.72	0.55
3:N:1115:THR:C	9:N:9343:HOH:O	2.50	0.55
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.89	0.55
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.38	0.55
2:C:135:VAL:O	2:C:392:SER:HA	2.07	0.55
2:C:186:VAL:HG23	9:C:1478:HOH:O	2.06	0.55
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.36	0.55
2:C:351:LEU:HG	9:C:1597:HOH:O	2.07	0.55
2:C:697:ARG:HA	9:C:1783:HOH:O	2.07	0.55
3:D:459:GLU:HG2	9:D:9650:HOH:O	2.07	0.55
3:D:493:ARG:CZ	3:D:1388:ARG:HB3	2.37	0.55
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.07	0.55
3:D:1159:ARG:HB2	9:D:9819:HOH:O	2.07	0.55
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.37	0.55
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.89	0.55
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.89	0.55
5:F:361:LEU:HD23	5:F:362:SER:OG	2.07	0.55
5:F:393:THR:HG21	9:F:866:HOH:O	2.07	0.55
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.22	0.55
1:L:137:ARG:HB2	9:L:5311:HOH:O	2.07	0.55
2:M:580:MET:HB3	2:M:584:GLU:CD	2.32	0.55
3:N:566:ILE:HG12	5:P:217:ASN:ND2	2.21	0.55
3:N:602:SER:O	3:N:606:ILE:HG12	2.07	0.55
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.22	0.55
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.88	0.54
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.88	0.54
2:C:79:PRO:HD3	9:C:1934:HOH:O	2.07	0.54
2:C:86:LYS:HE2	9:C:1713:HOH:O	2.06	0.54
2:C:333:ILE:HD11	2:C:467:ILE:HG13	1.89	0.54
2:C:534:VAL:H	2:C:538:GLN:HE22	1.56	0.54
2:C:601:GLY:O	2:C:648:ARG:HA	2.07	0.54
2:C:866:PRO:HD2	9:C:1297:HOH:O	2.07	0.54
2:C:1085:PHE:CE2	3:D:1468:LEU:HA	2.42	0.54
3:D:209:ARG:HH22	3:D:397:LYS:HG3	1.71	0.54
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.22	0.54
3:D:1086:LEU:N	6:D:8001:STD:H32	2.22	0.54
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.15	0.54
2:M:1116:ALA:HB3	9:M:1163:HOH:O	2.06	0.54
3:N:80:VAL:HG23	9:N:9633:HOH:O	2.06	0.54
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.42	0.54
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.54
5:P:291:ILE:O	5:P:295:MET:HB2	2.07	0.54
1:A:26:GLU:HG2	1:A:27:PRO:HG3	1.88	0.54
1:A:116:PRO:HD3	9:A:510:HOH:O	2.06	0.54
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.22	0.54
2:C:418:LEU:HD22	2:C:418:LEU:N	2.23	0.54
2:C:464:LEU:O	2:C:466:PHE:N	2.40	0.54
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.08	0.54
2:C:666:LEU:HD21	9:C:1827:HOH:O	2.07	0.54
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.35	0.54
3:D:215:TYR:O	3:D:389:GLU:HB2	2.08	0.54
3:D:965:GLU:HB2	9:D:9143:HOH:O	2.06	0.54
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.25	0.54
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.90	0.54
2:M:170:PRO:HD3	2:M:263:ASP:HB3	1.89	0.54
2:M:231:PRO:HA	9:M:2063:HOH:O	2.06	0.54
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.06	0.54
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.42	0.54
3:N:829:VAL:HA	9:N:9025:HOH:O	2.06	0.54
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.71	0.54
3:N:1127:GLU:CB	3:N:1133:ARG:HH12	2.21	0.54
3:N:1182:GLU:HG2	9:N:2291:HOH:O	2.06	0.54
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.07	0.54
3:N:1502:ALA:HB3	9:N:2086:HOH:O	2.08	0.54
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.32	0.54
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.89	0.54
2:C:140:ILE:HD11	9:C:1460:HOH:O	2.06	0.54
2:C:285:LEU:HD23	2:C:285:LEU:O	2.07	0.54
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.43	0.54
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.87	0.54
3:D:1063:GLU:HB2	9:D:9009:HOH:O	2.06	0.54
3:D:1090:ASP:O	3:D:1093:TYR:HB3	2.06	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.23	0.54
1:K:5:LYS:O	1:K:8:ALA:HB2	2.07	0.54
1:K:198:ARG:C	1:K:199:ILE:HD12	2.32	0.54
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.72	0.54
1:L:91:ASN:O	1:L:94:LEU:HD12	2.08	0.54
2:M:33:ASP:OD1	2:M:34:VAL:HG13	2.07	0.54
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.33	0.54
2:M:276:LYS:O	2:M:280:LYS:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:464:LEU:O	2:M:466:PHE:N	2.41	0.54
2:M:674:VAL:HG23	2:M:869:VAL:O	2.07	0.54
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.90	0.54
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.41	0.54
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.42	0.54
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.90	0.54
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.89	0.54
1:B:44:LEU:HD21	1:B:199:ILE:HD13	1.88	0.54
2:C:196:LEU:HD13	2:C:303:PHE:CZ	2.41	0.54
2:C:198:ARG:HH21	2:C:204:GLN:H	1.54	0.54
2:C:486:MET:SD	2:C:491:GLU:HA	2.46	0.54
2:C:530:GLU:HA	9:C:1437:HOH:O	2.06	0.54
2:C:881:ASN:H	2:C:881:ASN:HD22	1.56	0.54
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.42	0.54
3:D:513:ILE:HA	9:D:2414:HOH:O	2.06	0.54
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.23	0.54
3:D:583:ASP:HA	3:D:602:SER:OG	2.07	0.54
3:D:679:ARG:HD2	9:D:9184:HOH:O	2.07	0.54
4:E:86:GLN:O	4:E:90:GLU:HG3	2.07	0.54
5:F:152:ASP:HA	9:F:446:HOH:O	2.06	0.54
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.35	0.54
1:K:3:ASP:HB2	9:K:4710:HOH:O	2.07	0.54
1:L:24:VAL:HG23	9:L:5344:HOH:O	2.08	0.54
1:L:123:MET:O	1:L:125:PRO:HD3	2.08	0.54
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.54
3:N:69:GLU:HA	9:N:9077:HOH:O	2.08	0.54
3:N:102:ILE:HB	9:N:2184:HOH:O	2.08	0.54
3:N:130:SER:O	3:N:568:ARG:NH2	2.40	0.54
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.90	0.54
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.42	0.54
3:N:464:LEU:HD11	9:N:9332:HOH:O	2.07	0.54
3:N:478:LEU:HD22	3:N:1388:ARG:NH2	2.22	0.54
3:N:681:ARG:HG3	3:N:682:ASP:OD1	2.08	0.54
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.07	0.54
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.23	0.54
4:O:54:LEU:O	4:O:54:LEU:HD23	2.08	0.54
5:P:420:ASP:HB2	9:P:5127:HOH:O	2.07	0.54
1:A:24:VAL:HG12	9:A:331:HOH:O	2.07	0.54
2:C:69:LEU:HD21	2:C:99:GLN:NE2	2.22	0.54
2:C:173:ASP:O	2:C:184:MET:HA	2.07	0.54
2:C:182:VAL:HG21	9:C:1151:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.36	0.54
2:C:380:ALA:O	2:C:384:GLU:HB2	2.07	0.54
2:C:423:ALA:HB2	6:D:8001:STD:C10	2.38	0.54
9:C:1424:HOH:O	3:D:3:LYS:HE3	2.07	0.54
3:D:209:ARG:HE	3:D:210:ARG:HD3	1.72	0.54
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.32	0.54
3:D:767:HIS:NE2	4:E:6:ILE:HG12	2.23	0.54
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.88	0.54
2:M:409:ARG:HA	2:M:454:SER:CA	2.35	0.54
3:N:52:PRO:HB3	3:N:80:VAL:HG13	1.89	0.54
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.89	0.54
3:N:181:ASP:HB3	9:N:9482:HOH:O	2.08	0.54
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.43	0.54
3:N:560:GLN:HB2	9:P:5398:HOH:O	2.07	0.54
3:N:661:MET:SD	3:N:673:ALA:HB1	2.47	0.54
3:N:1335:LEU:HD21	9:N:9791:HOH:O	2.08	0.54
1:A:92:PRO:HD3	9:A:335:HOH:O	2.07	0.54
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.08	0.54
2:C:105:THR:HG23	9:C:1683:HOH:O	2.06	0.54
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.22	0.54
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.43	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.08	0.54
3:D:628:ARG:HG2	9:D:9834:HOH:O	2.07	0.54
3:D:865:THR:HG21	9:D:9950:HOH:O	2.08	0.54
3:D:966:GLU:O	3:D:969:ARG:HG2	2.07	0.54
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.42	0.54
5:F:407:LYS:HD3	9:F:714:HOH:O	2.08	0.54
1:K:100:LEU:HG	9:K:3937:HOH:O	2.08	0.54
2:M:264:PRO:HB3	2:M:289:THR:CB	2.37	0.54
2:M:380:ALA:HB2	9:M:1838:HOH:O	2.08	0.54
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.90	0.54
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.42	0.54
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.43	0.54
3:N:422:ALA:HB2	9:N:9964:HOH:O	2.07	0.54
3:N:459:GLU:HG3	3:N:460:ALA:N	2.22	0.54
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.23	0.54
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.42	0.54
3:N:1380:GLU:OE2	3:N:1390:LEU:HD22	2.07	0.54
5:P:135:ILE:HD12	9:P:4903:HOH:O	2.07	0.54
5:P:374:GLY:HA3	9:P:5465:HOH:O	2.08	0.54
1:A:11:PHE:CD1	1:A:25:LEU:HD13	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:233:GLU:HB2	9:C:1569:HOH:O	2.08	0.54
2:C:281:LEU:HD11	2:C:306:THR:HA	1.90	0.54
2:C:325:ILE:HD12	9:C:1988:HOH:O	2.07	0.54
2:C:402:SER:OG	2:C:566:THR:HG22	2.07	0.54
2:C:717:LEU:HD12	9:C:1324:HOH:O	2.07	0.54
2:C:722:ILE:CG2	2:C:805:ARG:HH21	2.20	0.54
2:C:793:PRO:HD2	9:C:2039:HOH:O	2.05	0.54
2:C:1105:LYS:HA	9:C:2031:HOH:O	2.07	0.54
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.38	0.54
2:M:41:ASN:HB3	9:M:1869:HOH:O	2.06	0.54
2:M:143:SER:HB3	2:M:330:ASN:O	2.07	0.54
2:M:209:ARG:O	2:M:213:ALA:HB2	2.07	0.54
2:M:257:VAL:HG13	9:M:1389:HOH:O	2.08	0.54
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.21	0.54
2:M:604:ALA:HB3	2:M:612:VAL:O	2.08	0.54
2:M:717:LEU:HD12	2:M:761:PHE:HB2	1.89	0.54
3:N:1310:ARG:HG3	3:N:1327:ARG:HB2	1.90	0.54
3:N:1395:LEU:HG	9:N:2029:HOH:O	2.08	0.54
2:C:53:PRO:HA	9:C:1326:HOH:O	2.08	0.54
2:C:433:THR:HA	9:C:1158:HOH:O	2.06	0.54
2:C:724:ARG:NE	2:C:737:LEU:O	2.41	0.54
3:D:992:ILE:O	3:D:995:LEU:HB3	2.08	0.54
5:F:100:VAL:HG23	9:F:444:HOH:O	2.07	0.54
5:F:220:LEU:HD21	9:F:598:HOH:O	2.06	0.54
5:F:282:LEU:HD12	5:F:284:ARG:O	2.08	0.54
2:M:139:GLN:HE21	2:M:334:ARG:HD2	1.71	0.54
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.71	0.54
3:N:542:ASP:O	3:N:546:ARG:HG2	2.08	0.54
3:N:863:VAL:HA	9:N:9076:HOH:O	2.07	0.54
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.36	0.54
1:A:29:GLU:HB2	1:A:32:PHE:CD1	2.43	0.54
1:A:30:ARG:HG2	9:D:2211:HOH:O	2.08	0.54
2:C:290:LEU:HB2	9:C:1479:HOH:O	2.08	0.54
2:C:359:MET:HB2	9:C:1415:HOH:O	2.07	0.54
3:D:465:LEU:HG	9:D:9464:HOH:O	2.08	0.54
3:D:478:LEU:HD13	3:D:1388:ARG:NH2	2.22	0.54
3:D:519:VAL:HA	3:D:544:TYR:OH	2.08	0.54
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.73	0.54
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.38	0.54
3:D:742:GLY:HA3	9:D:2453:HOH:O	2.07	0.54
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1487:VAL:CG1	3:D:1492:LEU:HG	2.38	0.54
1:K:63:HIS:HD2	1:K:65:PHE:H	1.56	0.54
2:M:144:PRO:HA	2:M:163:ILE:CG1	2.37	0.54
3:N:961:LYS:HG3	3:N:962:GLN:OE1	2.08	0.54
3:N:994:GLN:HE21	3:N:994:GLN:HA	1.72	0.54
3:N:1077:ALA:HA	9:N:9068:HOH:O	2.06	0.54
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.23	0.54
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.07	0.54
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.89	0.54
2:C:198:ARG:HH21	2:C:204:GLN:CG	2.21	0.54
2:C:410:ILE:HB	9:C:1130:HOH:O	2.08	0.54
2:C:431:HIS:CD2	2:C:433:THR:H	2.25	0.54
2:C:513:VAL:HG23	9:C:1298:HOH:O	2.06	0.54
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.89	0.54
2:C:774:LEU:HG	9:C:1519:HOH:O	2.08	0.54
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.11	0.54
2:C:791:ARG:O	2:C:793:PRO:HD3	2.08	0.54
3:D:391:ALA:HB3	9:D:9395:HOH:O	2.07	0.54
3:D:525:ARG:HA	3:D:538:SER:CB	2.38	0.54
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.73	0.54
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.90	0.54
1:K:20:TYR:CD2	1:K:21:GLY:N	2.76	0.54
1:L:133:GLU:HB2	9:L:5764:HOH:O	2.08	0.54
1:L:185:ARG:HA	9:L:5714:HOH:O	2.08	0.54
1:L:204:SER:HA	9:L:3964:HOH:O	2.08	0.54
2:M:399:ASN:HB3	2:M:568:ALA:O	2.07	0.54
2:M:601:GLY:O	2:M:648:ARG:HA	2.08	0.54
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.37	0.54
2:M:834:GLN:HG2	9:M:1208:HOH:O	2.07	0.54
2:M:976:ASP:HB2	2:M:979:THR:HG22	1.89	0.54
2:M:998:TYR:CE2	2:M:1000:MET:HG2	2.42	0.54
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.90	0.54
3:N:758:GLU:HG2	4:O:20:THR:HG23	1.90	0.54
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.08	0.54
3:N:1097:LYS:HA	9:N:9338:HOH:O	2.06	0.54
3:N:1291:SER:HB2	9:N:9921:HOH:O	2.07	0.54
5:P:264:MET:HA	9:P:5687:HOH:O	2.08	0.54
5:P:299:TRP:HH2	5:P:307:THR:HG21	1.73	0.54
2:C:1086:ARG:HD2	3:D:88:TYR:OH	2.08	0.53
1:L:88:ARG:HG2	1:L:88:ARG:HH11	1.72	0.53
1:L:127:LEU:HD11	9:L:4237:HOH:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.73	0.53
2:M:408:ARG:NH1	2:M:542:VAL:HG22	2.23	0.53
2:M:525:SER:OG	2:M:527:GLU:HG3	2.07	0.53
2:M:971:LYS:HA	2:M:988:VAL:HA	1.90	0.53
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.44	0.53
3:N:120:ALA:HB2	9:N:9789:HOH:O	2.08	0.53
3:N:131:LYS:HA	3:N:456:MET:HG3	1.89	0.53
3:N:969:ARG:O	3:N:972:LEU:HB3	2.07	0.53
3:N:1065:LEU:HD13	3:N:1069:GLU:HB2	1.89	0.53
3:N:1459:LEU:HD23	3:N:1464:GLU:HG3	1.90	0.53
5:P:153:PRO:HG2	5:P:154:LYS:H	1.73	0.53
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.90	0.53
2:C:193:LEU:HD12	9:C:1346:HOH:O	2.08	0.53
2:C:308:ARG:HD2	9:C:1789:HOH:O	2.07	0.53
2:C:430:VAL:HG11	3:D:1074:SER:HB2	1.89	0.53
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.22	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.91	0.53
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.43	0.53
3:D:720:LEU:H	3:D:720:LEU:CD1	2.18	0.53
3:D:1310:ARG:H	3:D:1310:ARG:NE	2.06	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.43	0.53
5:F:396:ARG:HG2	9:F:810:HOH:O	2.08	0.53
1:K:225:PHE:HE1	1:L:25:LEU:HD22	1.72	0.53
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.72	0.53
2:M:542:VAL:HG23	2:M:543:ASN:H	1.73	0.53
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.89	0.53
2:M:660:ALA:HB1	2:M:667:ALA:O	2.08	0.53
2:M:678:PRO:HA	2:M:683:ASN:HD21	1.73	0.53
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.90	0.53
2:M:975:TYR:HA	2:M:982:PRO:HA	1.89	0.53
3:N:116:LEU:HD23	9:N:9142:HOH:O	2.08	0.53
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.38	0.53
3:N:969:ARG:HD2	9:N:9270:HOH:O	2.08	0.53
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	2.07	0.53
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.23	0.53
5:P:201:LYS:HE2	9:P:5773:HOH:O	2.06	0.53
1:A:36:LEU:O	1:A:40:LEU:HG	2.07	0.53
1:A:95:GLN:CA	1:A:146:ARG:HH12	2.16	0.53
2:C:668:LEU:HD12	2:C:668:LEU:N	2.24	0.53
2:C:780:GLU:HG3	2:C:781:LYS:H	1.72	0.53
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.89	0.53
2:C:1059:ASP:CG	2:C:1062:GLY:HA3	2.32	0.53
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.23	0.53
3:D:153:LEU:HD12	3:D:154:THR:H	1.72	0.53
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.39	0.53
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.08	0.53
4:E:72:ARG:HG2	4:E:72:ARG:HH11	1.72	0.53
5:F:102:LEU:O	5:F:106:VAL:HG23	2.08	0.53
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.73	0.53
1:L:227:ASN:ND2	1:L:227:ASN:H	2.06	0.53
3:N:52:PRO:CG	3:N:80:VAL:HG22	2.39	0.53
3:N:54:LYS:HG3	3:N:57:GLU:HB3	1.90	0.53
3:N:957:PRO:HB3	3:N:959:GLU:OE1	2.08	0.53
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.07	0.53
3:N:1485:GLN:NE2	4:O:80:VAL:H	2.03	0.53
5:P:256:ARG:HD2	9:P:3830:HOH:O	2.07	0.53
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.89	0.53
1:B:94:LEU:HD11	1:B:119:ASP:HB3	1.90	0.53
2:C:282:GLY:N	2:C:308:ARG:NH2	2.55	0.53
2:C:341:THR:HG23	2:C:345:ARG:HH21	1.74	0.53
2:C:1031:ARG:HG3	2:C:1031:ARG:HH11	1.74	0.53
3:D:181:ASP:O	3:D:185:VAL:HG23	2.09	0.53
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.91	0.53
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.74	0.53
1:K:8:ALA:HA	9:K:4167:HOH:O	2.08	0.53
9:K:6352:HOH:O	1:L:155:LYS:HD2	2.07	0.53
2:M:254:VAL:HG11	9:M:1618:HOH:O	2.08	0.53
2:M:798:GLY:H	2:M:827:VAL:HG11	1.74	0.53
2:M:815:LEU:HD21	2:M:820:ARG:O	2.07	0.53
2:M:943:VAL:CG2	2:M:985:GLY:H	2.19	0.53
3:N:754:PHE:CZ	4:O:21:VAL:HA	2.43	0.53
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.90	0.53
3:N:1110:ALA:HB1	9:N:9543:HOH:O	2.08	0.53
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	1.90	0.53
5:P:122:LEU:HD23	9:P:4172:HOH:O	2.07	0.53
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.39	0.53
2:C:113:VAL:HG22	9:C:1833:HOH:O	2.07	0.53
3:D:526:PRO:O	3:D:537:THR:HA	2.08	0.53
3:D:551:ASN:O	3:D:555:LYS:HG3	2.09	0.53
3:D:710:ARG:HD2	3:D:772:PRO:HG2	1.89	0.53
3:D:1045:MET:HB3	3:D:1072:ILE:HG22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.08	0.53
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	1.90	0.53
5:F:243:ILE:O	5:F:247:ILE:HG13	2.09	0.53
1:K:39:PRO:O	1:K:43:ILE:HG12	2.08	0.53
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.88	0.53
2:M:137:VAL:HG22	2:M:391:LEU:O	2.09	0.53
2:M:266:ARG:HB2	9:M:1427:HOH:O	2.07	0.53
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.88	0.53
2:M:879:ARG:CZ	3:N:1029:ARG:HH12	2.21	0.53
2:M:925:TYR:CD1	2:M:925:TYR:C	2.87	0.53
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.90	0.53
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.38	0.53
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.39	0.53
5:P:142:ARG:HG2	9:P:4970:HOH:O	2.07	0.53
5:P:363:GLU:HA	5:P:367:MET:HG2	1.90	0.53
1:B:47:SER:O	1:B:49:PRO:N	2.41	0.53
2:C:369:PRO:HG2	9:F:698:HOH:O	2.09	0.53
2:C:557:ARG:HB2	9:C:1189:HOH:O	2.08	0.53
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.08	0.53
3:D:168:THR:HA	9:D:9020:HOH:O	2.07	0.53
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.39	0.53
3:D:744:GLN:HB3	9:D:9834:HOH:O	2.08	0.53
3:D:949:ILE:CD1	3:D:1023:MET:HE1	2.38	0.53
3:D:1087:ARG:HG2	9:D:9918:HOH:O	2.08	0.53
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.44	0.53
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.38	0.53
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.43	0.53
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.38	0.53
2:M:331:ARG:CZ	2:M:427:VAL:HG13	2.39	0.53
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.53
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.43	0.53
2:M:881:ASN:N	2:M:881:ASN:ND2	2.55	0.53
3:N:172:PRO:HD2	3:N:389:GLU:O	2.08	0.53
3:N:1235:GLN:HA	9:N:9533:HOH:O	2.08	0.53
5:P:164:LYS:HG2	9:P:5668:HOH:O	2.08	0.53
1:A:156:HIS:CD2	1:A:157:GLY:H	2.26	0.53
1:B:170:VAL:HG22	9:B:364:HOH:O	2.07	0.53
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.91	0.53
2:C:663:ASN:N	9:C:2008:HOH:O	2.40	0.53
3:D:141:ILE:HD13	3:D:450:TYR:H	1.73	0.53
3:D:661:MET:HE2	3:D:677:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.23	0.53
3:D:1239:ARG:HA	9:D:2088:HOH:O	2.08	0.53
4:E:40:LEU:O	4:E:40:LEU:HD22	2.09	0.53
5:F:81:VAL:O	5:F:85:LEU:HG	2.09	0.53
5:F:226:LYS:HE3	9:F:490:HOH:O	2.07	0.53
1:L:59:GLU:HG3	1:L:139:ASN:ND2	2.23	0.53
1:L:110:LYS:HD2	1:L:112:ARG:HH12	1.74	0.53
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.44	0.53
2:M:449:ILE:HG12	9:M:1213:HOH:O	2.09	0.53
2:M:748:GLU:HA	2:M:799:ILE:HG22	1.90	0.53
2:M:874:LEU:HD13	3:N:783:ARG:HB2	1.90	0.53
2:M:881:ASN:H	2:M:881:ASN:ND2	2.06	0.53
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.41	0.53
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.37	0.53
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.91	0.53
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.44	0.53
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.34	0.53
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.24	0.53
3:N:822:ALA:HB2	9:N:9137:HOH:O	2.08	0.53
1:B:1:MET:HE2	9:B:341:HOH:O	2.07	0.53
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.90	0.53
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.90	0.53
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.91	0.53
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.09	0.53
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.23	0.53
3:D:669:ASN:OD1	5:F:349:LEU:HD11	2.09	0.53
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.91	0.53
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.09	0.53
4:E:54:LEU:HD23	4:E:54:LEU:O	2.09	0.53
5:F:270:LYS:HB3	5:F:295:MET:HE1	1.90	0.53
1:L:95:GLN:HE21	1:L:95:GLN:N	2.06	0.53
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.91	0.53
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.73	0.53
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.44	0.53
2:M:241:LEU:HD23	9:M:1478:HOH:O	2.08	0.53
2:M:569:VAL:HG12	2:M:996:LYS:O	2.09	0.53
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.34	0.53
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.91	0.53
3:N:77:GLY:O	3:N:78:VAL:HG23	2.09	0.53
3:N:172:PRO:HB2	9:N:9436:HOH:O	2.08	0.53
5:P:169:GLU:H	5:P:169:GLU:CD	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:GLU:HB2	9:A:512:HOH:O	2.09	0.53
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.89	0.53
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.24	0.53
2:C:25:SER:HB2	2:C:335:THR:HB	1.90	0.53
2:C:41:ASN:HB3	9:C:1171:HOH:O	2.09	0.53
2:C:163:ILE:HD12	9:C:1850:HOH:O	2.09	0.53
2:C:266:ARG:HB2	9:C:1885:HOH:O	2.09	0.53
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.53
2:C:670:GLN:O	2:C:672:VAL:HG12	2.09	0.53
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.37	0.53
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.44	0.53
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.90	0.53
1:K:216:GLU:O	1:K:220:GLU:HG3	2.09	0.53
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.44	0.53
2:M:282:GLY:HA2	2:M:308:ARG:HH22	1.73	0.53
2:M:626:ARG:HB2	2:M:639:GLN:NE2	2.12	0.53
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.38	0.53
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.90	0.53
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.39	0.53
3:N:583:ASP:HA	3:N:602:SER:HB2	1.91	0.53
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.91	0.53
3:N:1432:LYS:CD	3:N:1433:SER:H	2.20	0.53
5:P:117:SER:OG	5:P:124:PRO:HG3	2.09	0.53
1:A:106:PRO:HB3	9:A:500:HOH:O	2.08	0.53
3:D:154:THR:HG22	3:D:157:GLU:CD	2.33	0.53
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.91	0.53
3:D:1044:LEU:HA	9:D:9902:HOH:O	2.09	0.53
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.74	0.53
3:D:1132:LEU:HD23	9:D:2203:HOH:O	2.09	0.53
3:D:1217:ILE:HD12	3:D:1480:PHE:HE2	1.74	0.53
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.09	0.53
3:D:1361:VAL:HG23	9:D:9147:HOH:O	2.09	0.53
4:E:53:GLY:HA3	9:E:196:HOH:O	2.08	0.53
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.91	0.53
5:F:207:LEU:HB3	5:F:212:LEU:HD12	1.91	0.53
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.44	0.53
2:M:52:PHE:HA	9:M:1741:HOH:O	2.09	0.53
2:M:144:PRO:HB2	2:M:267:TYR:HE1	1.74	0.53
2:M:428:ARG:HH21	2:M:451:LEU:HD11	1.73	0.53
2:M:674:VAL:HG21	2:M:871:LEU:CD1	2.39	0.53
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:789:SER:O	2:M:791:ARG:HG2	2.09	0.53
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.39	0.53
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
5:P:261:PRO:O	5:P:265:VAL:HG23	2.09	0.53
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.45	0.52
2:C:137:VAL:O	2:C:391:LEU:HD21	2.09	0.52
2:C:142:ARG:HB2	9:C:1317:HOH:O	2.08	0.52
2:C:534:VAL:HB	2:C:538:GLN:OE1	2.08	0.52
2:C:580:MET:SD	2:C:584:GLU:HG3	2.49	0.52
2:C:625:LEU:HD13	2:C:639:GLN:O	2.10	0.52
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.45	0.52
2:C:848:VAL:HG23	3:D:740:PHE:O	2.09	0.52
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.35	0.52
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.38	0.52
3:D:455:ARG:HA	9:D:9353:HOH:O	2.09	0.52
3:D:1334:GLN:HG2	9:D:9604:HOH:O	2.09	0.52
4:E:63:TRP:O	4:E:67:GLU:HG3	2.08	0.52
5:F:94:LEU:HD23	5:F:96:LEU:N	2.24	0.52
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.40	0.52
2:M:71:TYR:H	2:M:71:TYR:HD2	1.57	0.52
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.44	0.52
2:M:774:LEU:HB2	9:M:2065:HOH:O	2.08	0.52
3:N:149:LYS:HD3	9:N:9623:HOH:O	2.09	0.52
3:N:171:LEU:HD11	9:N:9804:HOH:O	2.08	0.52
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.38	0.52
3:N:661:MET:HA	3:N:666:ILE:CD1	2.40	0.52
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.40	0.52
5:P:94:LEU:H	5:P:98:GLU:CD	2.16	0.52
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.92	0.52
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.74	0.52
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.74	0.52
2:C:902:ILE:O	2:C:904:PRO:HD3	2.09	0.52
2:C:1004:LYS:HB2	9:C:1264:HOH:O	2.09	0.52
3:D:119:SER:CB	3:D:123:LEU:HB2	2.40	0.52
3:D:148:GLU:HA	9:D:9078:HOH:O	2.09	0.52
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.90	0.52
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.90	0.52
3:D:781:PRO:HA	3:D:785:ILE:HD12	1.90	0.52
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.74	0.52
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.17	0.52
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.08	0.52
5:F:245:GLN:HA	9:F:471:HOH:O	2.09	0.52
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.09	0.52
1:L:27:PRO:O	1:L:28:LEU:HD23	2.09	0.52
2:M:198:ARG:HB3	9:M:2063:HOH:O	2.10	0.52
2:M:242:LEU:HB3	9:M:1173:HOH:O	2.10	0.52
2:M:474:VAL:HG23	2:M:478:VAL:O	2.09	0.52
2:M:524:VAL:HG22	2:M:528:GLU:HG3	1.90	0.52
2:M:724:ARG:CG	2:M:740:GLU:HA	2.40	0.52
3:N:563:PRO:O	3:N:567:ILE:HG13	2.09	0.52
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.38	0.52
3:N:838:ARG:HD3	3:N:874:GLU:HG2	1.92	0.52
3:N:984:THR:HG23	3:N:986:ARG:H	1.74	0.52
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.74	0.52
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.72	0.52
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.22	0.52
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.36	0.52
2:C:275:TYR:HA	9:C:1202:HOH:O	2.09	0.52
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.44	0.52
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.09	0.52
3:D:197:SER:CB	3:D:203:ALA:HB3	2.27	0.52
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.90	0.52
3:D:783:ARG:HE	3:D:1029:ARG:NE	2.07	0.52
3:D:809:PRO:O	3:D:812:ALA:HB3	2.09	0.52
3:D:926:LYS:HE2	9:D:9035:HOH:O	2.08	0.52
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.10	0.52
3:D:1286:THR:HG22	9:D:9077:HOH:O	2.09	0.52
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.91	0.52
5:F:404:ALA:O	5:F:408:LEU:HD23	2.08	0.52
1:L:104:GLU:OE1	1:L:137:ARG:HG3	2.09	0.52
1:L:115:LEU:HD12	1:L:115:LEU:O	2.10	0.52
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.91	0.52
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.45	0.52
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.36	0.52
2:M:666:LEU:HD12	2:M:667:ALA:H	1.74	0.52
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.73	0.52
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.37	0.52
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.08	0.52
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.25	0.52
1:A:41:ARG:O	1:A:45:LEU:HD12	2.10	0.52
1:A:229:GLN:HG3	9:B:611:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.38	0.52
2:C:481:ASP:HA	9:C:1844:HOH:O	2.10	0.52
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.91	0.52
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.49	0.52
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.74	0.52
2:C:1098:ASP:N	9:C:1791:HOH:O	2.42	0.52
3:D:444:VAL:HG11	9:D:9854:HOH:O	2.10	0.52
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.24	0.52
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.75	0.52
3:D:619:LEU:HB2	9:D:9123:HOH:O	2.09	0.52
3:D:697:GLY:HA2	3:D:717:GLN:OE1	2.08	0.52
3:D:724:GLN:HG3	3:D:725:SER:N	2.24	0.52
3:D:880:ILE:O	3:D:883:ALA:HB3	2.09	0.52
3:D:1234:THR:HG21	9:D:2326:HOH:O	2.09	0.52
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.91	0.52
5:F:192:LEU:O	5:F:192:LEU:HD23	2.09	0.52
5:F:399:GLN:HG3	9:F:772:HOH:O	2.09	0.52
2:M:92:ALA:HB2	2:M:120:LEU:HD21	1.92	0.52
2:M:310:LEU:HD12	2:M:313:LEU:CD2	2.39	0.52
3:N:161:LEU:HD21	9:N:9457:HOH:O	2.10	0.52
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.90	0.52
3:N:422:ALA:CB	5:P:178:ARG:HH12	2.17	0.52
3:N:555:LYS:HA	3:N:558:LEU:HD12	1.92	0.52
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.38	0.52
1:B:29:GLU:HG3	9:B:336:HOH:O	2.08	0.52
2:C:162:ILE:HB	2:C:172:ILE:HB	1.91	0.52
2:C:428:ARG:HG3	2:C:428:ARG:NH1	2.24	0.52
2:C:442:GLU:HB3	2:C:453:THR:OG1	2.08	0.52
2:C:633:GLN:NE2	2:C:633:GLN:H	2.07	0.52
2:C:924:VAL:HG21	9:C:2023:HOH:O	2.09	0.52
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.40	0.52
3:D:1455:LYS:HD3	3:D:1455:LYS:C	2.35	0.52
3:D:1496:GLU:HA	3:D:1499:ARG:NE	2.24	0.52
2:M:9:ILE:HD11	2:M:537:LYS:NZ	2.25	0.52
2:M:154:ARG:HG3	9:M:1568:HOH:O	2.08	0.52
2:M:167:LYS:HD2	2:M:168:ARG:NH1	2.25	0.52
3:N:924:MET:HE1	4:O:10:PHE:CE1	2.45	0.52
5:P:81:VAL:O	5:P:85:LEU:HG	2.10	0.52
5:P:274:THR:O	5:P:278:LEU:HG	2.09	0.52
1:B:84:GLU:HB3	1:B:127:LEU:HD21	1.92	0.52
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:884:GLN:HG2	2:C:885:ILE:N	2.23	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.40	0.52
3:D:454:ALA:C	3:D:455:ARG:HD2	2.35	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.92	0.52
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.10	0.52
4:E:42:PRO:HG2	9:E:146:HOH:O	2.09	0.52
5:F:88:ILE:HD13	5:F:193:ARG:HD3	1.90	0.52
2:M:932:GLU:HG2	9:M:1541:HOH:O	2.08	0.52
3:N:422:ALA:O	3:N:427:VAL:HG21	2.10	0.52
3:N:907:GLU:HG2	3:N:908:LYS:H	1.74	0.52
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.10	0.52
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.92	0.52
5:P:138:SER:O	5:P:141:VAL:HG12	2.09	0.52
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.90	0.52
1:A:216:GLU:O	1:A:220:GLU:HG3	2.09	0.52
1:B:91:ASN:H	1:B:94:LEU:HD12	1.75	0.52
2:C:74:GLY:O	2:C:76:PRO:HD3	2.09	0.52
2:C:288:ARG:HD3	9:C:1496:HOH:O	2.09	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
2:C:665:PHE:N	9:C:2008:HOH:O	2.41	0.52
3:D:1341:PRO:HD2	3:D:1342:GLU:OE2	2.09	0.52
3:D:1463:LYS:O	3:D:1467:ILE:HD12	2.10	0.52
5:F:86:HIS:HB3	9:F:802:HOH:O	2.10	0.52
5:F:365:GLU:HG2	5:F:397:ILE:HA	1.92	0.52
1:K:19:GLU:H	1:K:19:GLU:CD	2.17	0.52
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.24	0.52
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.39	0.52
2:M:232:GLU:O	2:M:235:LEU:HB2	2.09	0.52
3:N:571:LYS:HB2	3:N:571:LYS:NZ	2.24	0.52
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.91	0.52
3:N:1441:GLN:OE1	3:N:1442:ASN:HB2	2.10	0.52
2:C:63:GLY:HA3	2:C:103:LYS:HE2	1.91	0.52
2:C:212:GLY:C	2:C:215:GLY:H	2.18	0.52
2:C:575:GLN:C	2:C:667:ALA:HB1	2.35	0.52
2:C:669:GLY:HA3	2:C:995:MET:HA	1.91	0.52
3:D:26:VAL:N	9:D:9002:HOH:O	2.42	0.52
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.25	0.52
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.75	0.52
3:D:1385:GLY:HA2	9:D:9072:HOH:O	2.10	0.52
3:D:1443:THR:O	3:D:1447:LEU:HD13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:124:PRO:O	5:F:128:ARG:HB2	2.10	0.52
5:F:190:ALA:HB1	9:F:704:HOH:O	2.10	0.52
5:F:225:GLU:HG3	5:F:226:LYS:HG3	1.91	0.52
2:M:61:LYS:HG2	9:M:1592:HOH:O	2.10	0.52
2:M:428:ARG:HD3	2:M:449:ILE:CG2	2.40	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.90	0.52
2:M:925:TYR:HE1	2:M:929:ARG:HH11	1.57	0.52
3:N:416:ALA:HA	3:N:442:ASN:ND2	2.24	0.52
3:N:699:VAL:HB	3:N:716:PHE:O	2.10	0.52
3:N:861:GLN:CD	3:N:861:GLN:H	2.18	0.52
3:N:861:GLN:CD	3:N:861:GLN:N	2.68	0.52
5:P:215:GLU:HA	9:P:6496:HOH:O	2.10	0.52
1:A:136:GLY:HA3	9:A:360:HOH:O	2.08	0.52
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.24	0.52
1:A:181:VAL:HG12	9:A:370:HOH:O	2.08	0.52
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.91	0.52
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.10	0.52
1:B:226:SER:O	1:B:228:PRO:HD3	2.09	0.52
2:C:56:GLU:OE1	2:C:356:ARG:HD3	2.09	0.52
2:C:504:GLU:HG2	2:C:507:ARG:O	2.09	0.52
2:C:662:GLU:N	9:C:2008:HOH:O	2.42	0.52
2:C:674:VAL:HG23	2:C:869:VAL:O	2.09	0.52
2:C:730:SER:O	2:C:734:LEU:HD13	2.09	0.52
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.92	0.52
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.10	0.52
4:E:58:PRO:HB2	9:E:102:HOH:O	2.08	0.52
5:F:253:ASP:HB2	9:F:629:HOH:O	2.09	0.52
2:M:5:ARG:CB	2:M:902:ILE:HB	2.40	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB3	2.39	0.52
3:N:438:ASP:HA	9:N:9374:HOH:O	2.10	0.52
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.44	0.52
3:N:1343:ALA:HB1	9:N:9791:HOH:O	2.09	0.52
5:P:111:GLU:O	5:P:115:LYS:HG3	2.08	0.52
1:A:132:LEU:HD12	9:A:328:HOH:O	2.10	0.52
1:B:154:GLU:HB3	9:B:483:HOH:O	2.09	0.52
2:C:1013:TYR:C	2:C:1021:LEU:HD23	2.35	0.52
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.10	0.52
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.10	0.52
3:D:55:ASP:O	3:D:82:LYS:HA	2.09	0.52
3:D:496:LEU:HD23	3:D:1388:ARG:HG2	1.92	0.52
3:D:796:ARG:HG3	3:D:828:LYS:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1018:ASN:ND2	3:D:1019:PRO:HD2	2.25	0.52
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.43	0.52
1:K:227:ASN:HD22	1:K:227:ASN:H	1.57	0.52
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.91	0.52
3:N:12:LEU:HD23	3:N:13:ALA:H	1.75	0.52
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.91	0.52
3:N:933:ALA:O	3:N:937:TYR:HD1	1.93	0.52
3:N:1086:LEU:HD11	6:N:8002:STD:H113	1.92	0.52
3:N:1395:LEU:HD13	3:N:1396:GLU:N	2.25	0.52
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.07	0.52
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.91	0.52
1:A:178:ALA:CB	2:C:864:GLY:H	2.23	0.51
1:B:33:GLY:O	1:B:195:LEU:HD22	2.10	0.51
2:C:1008:ARG:NH1	2:C:1011:GLY:HA3	2.25	0.51
3:D:63:TYR:HB3	3:D:68:PHE:CZ	2.45	0.51
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.92	0.51
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.40	0.51
3:D:1326:THR:HA	9:D:9040:HOH:O	2.11	0.51
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.35	0.51
1:K:98:THR:HG22	9:K:3937:HOH:O	2.08	0.51
1:K:159:LYS:HD3	9:K:3711:HOH:O	2.10	0.51
1:K:227:ASN:HD22	1:K:227:ASN:N	2.06	0.51
1:L:59:GLU:HG3	1:L:139:ASN:HD22	1.74	0.51
1:L:101:LEU:HB3	1:L:140:MET:SD	2.50	0.51
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.45	0.51
3:N:132:TYR:HA	9:N:9350:HOH:O	2.09	0.51
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.92	0.51
9:N:9551:HOH:O	5:P:258:ILE:HD12	2.10	0.51
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.51
2:C:204:GLN:HB2	9:C:1650:HOH:O	2.10	0.51
2:C:232:GLU:O	2:C:235:LEU:HB2	2.10	0.51
2:C:441:VAL:CG1	2:C:559:LEU:HA	2.39	0.51
2:C:578:VAL:HG11	2:C:991:GLN:CB	2.33	0.51
3:D:1335:LEU:CD2	3:D:1344:VAL:HA	2.40	0.51
5:F:283:GLY:HA2	9:F:586:HOH:O	2.09	0.51
1:L:110:LYS:HD2	1:L:126:ASP:HA	1.90	0.51
2:M:129:ILE:HD13	2:M:386:PHE:HB3	1.92	0.51
2:M:160:ALA:O	2:M:173:ASP:HA	2.10	0.51
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.91	0.51
2:M:335:THR:CG2	2:M:461:VAL:HG11	2.40	0.51
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:704:HIS:HB3	2:M:831:ARG:NE	2.25	0.51
3:N:135:LEU:HD11	3:N:139:GLY:HA3	1.92	0.51
3:N:671:LYS:CE	3:N:674:ARG:HH21	2.24	0.51
1:A:161:ARG:HG2	9:A:442:HOH:O	2.11	0.51
1:B:223:THR:HA	9:B:419:HOH:O	2.09	0.51
2:C:141:HIS:CB	2:C:418:LEU:HG	2.40	0.51
2:C:432:ARG:NH1	3:D:1048:PRO:HD3	2.26	0.51
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.25	0.51
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.91	0.51
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.42	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.41	0.51
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.40	0.51
3:D:639:LEU:HD12	3:D:639:LEU:N	2.26	0.51
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.10	0.51
3:D:1380:GLU:HG3	3:D:1381:VAL:N	2.25	0.51
5:F:122:LEU:HD12	9:F:488:HOH:O	2.11	0.51
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.46	0.51
5:F:337:HIS:CD2	5:F:337:HIS:N	2.74	0.51
2:M:335:THR:HG21	2:M:461:VAL:HG11	1.92	0.51
2:M:526:PRO:HD2	9:M:1644:HOH:O	2.10	0.51
2:M:720:GLU:HA	2:M:759:THR:O	2.11	0.51
3:N:54:LYS:HB3	9:N:9416:HOH:O	2.09	0.51
3:N:424:GLY:HA2	3:N:435:VAL:O	2.10	0.51
3:N:601:ARG:NE	3:N:606:ILE:HD13	2.25	0.51
3:N:661:MET:CE	3:N:677:LEU:HD11	2.37	0.51
3:N:1237:THR:HB	3:N:1359:GLN:OE1	2.10	0.51
3:N:1492:LEU:HD12	3:N:1493:LYS:NZ	2.24	0.51
5:P:325:LYS:HB2	9:P:6651:HOH:O	2.09	0.51
5:P:392:VAL:HG21	9:P:3714:HOH:O	2.09	0.51
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.39	0.51
2:C:140:ILE:H	2:C:140:ILE:HD12	1.76	0.51
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.35	0.51
2:C:691:SER:HA	2:C:858:MET:HE3	1.92	0.51
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.92	0.51
3:D:1354:LYS:HD3	9:D:9764:HOH:O	2.08	0.51
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.75	0.51
5:F:289:GLU:O	5:F:293:GLU:HG3	2.10	0.51
9:K:5022:HOH:O	2:M:608:GLY:HA3	2.11	0.51
2:M:9:ILE:HD11	2:M:537:LYS:HZ3	1.75	0.51
2:M:141:HIS:O	2:M:331:ARG:HA	2.10	0.51
2:M:817:PRO:C	2:M:819:VAL:H	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:837:ASP:OD1	2:M:996:LYS:HE2	2.10	0.51
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.45	0.51
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.23	0.51
2:M:1073:GLY:HA3	9:M:1801:HOH:O	2.11	0.51
3:N:634:GLY:O	3:N:637:LEU:HB3	2.09	0.51
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.10	0.51
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.92	0.51
4:O:58:PRO:HB2	9:O:3650:HOH:O	2.10	0.51
4:O:84:ARG:NH1	4:O:84:ARG:HB2	2.26	0.51
5:P:144:ILE:HG23	9:P:4405:HOH:O	2.10	0.51
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.10	0.51
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.92	0.51
1:A:13:VAL:HG21	9:B:442:HOH:O	2.10	0.51
1:A:156:HIS:HD2	1:A:157:GLY:N	2.08	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.11	0.51
1:B:194:LYS:HZ2	1:B:194:LYS:HB2	1.75	0.51
2:C:541:SER:HB2	9:C:1121:HOH:O	2.10	0.51
2:C:580:MET:HB3	2:C:584:GLU:CD	2.36	0.51
2:C:679:PHE:C	3:D:943:THR:HG22	2.34	0.51
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.75	0.51
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.41	0.51
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ1	1.76	0.51
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.40	0.51
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.25	0.51
4:E:26:ARG:O	4:E:29:GLN:HG3	2.10	0.51
5:F:238:TYR:HB2	9:F:612:HOH:O	2.10	0.51
2:M:157:ARG:HG2	2:M:157:ARG:HH11	1.74	0.51
2:M:244:PRO:HD3	9:M:1602:HOH:O	2.10	0.51
2:M:1009:SER:OG	3:N:654:LYS:HB3	2.09	0.51
2:M:1082:PRO:HG3	9:M:1191:HOH:O	2.10	0.51
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.25	0.51
3:N:1481:VAL:CG1	4:O:18:ARG:HE	2.12	0.51
4:O:17:TYR:O	4:O:21:VAL:HG23	2.11	0.51
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.92	0.51
2:C:80:GLN:HB3	2:C:84:ARG:HH21	1.75	0.51
2:C:185:LYS:HG2	2:C:190:LYS:HG2	1.91	0.51
2:C:526:PRO:HB3	9:C:1428:HOH:O	2.11	0.51
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.26	0.51
2:C:975:TYR:HA	2:C:982:PRO:HA	1.91	0.51
3:D:32:ILE:HG12	3:D:38:LYS:O	2.11	0.51
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.93	0.51
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.92	0.51
3:D:744:GLN:CD	9:D:9834:HOH:O	2.52	0.51
3:D:955:VAL:HG22	9:D:2109:HOH:O	2.10	0.51
3:D:1090:ASP:HA	3:D:1093:TYR:HB2	1.91	0.51
3:D:1219:GLU:C	9:D:9516:HOH:O	2.53	0.51
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.26	0.51
2:M:1000:MET:HE1	9:M:1491:HOH:O	2.10	0.51
3:N:29:PRO:HA	9:N:9523:HOH:O	2.10	0.51
3:N:32:ILE:O	5:P:258:ILE:HG23	2.11	0.51
3:N:146:PRO:HB3	9:N:9665:HOH:O	2.11	0.51
3:N:181:ASP:OD1	3:N:199:LEU:HD12	2.10	0.51
3:N:809:PRO:O	3:N:812:ALA:HB3	2.11	0.51
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.90	0.51
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.76	0.51
4:O:85:LEU:HD23	4:O:86:GLN:N	2.25	0.51
5:P:256:ARG:NH2	5:P:258:ILE:HB	2.25	0.51
5:P:363:GLU:HA	5:P:367:MET:HE3	1.93	0.51
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.75	0.51
2:C:260:LEU:HA	2:C:291:ALA:CB	2.40	0.51
2:C:367:LEU:HA	2:C:371:LYS:CD	2.41	0.51
2:C:704:HIS:HB2	9:C:1879:HOH:O	2.10	0.51
9:C:1234:HOH:O	5:F:335:ASP:HB3	2.10	0.51
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.92	0.51
3:D:669:ASN:HB3	9:D:9017:HOH:O	2.10	0.51
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.92	0.51
4:E:13:VAL:HG23	9:E:108:HOH:O	2.11	0.51
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.25	0.51
5:F:370:LYS:HD2	5:F:370:LYS:C	2.35	0.51
5:F:393:THR:HG22	5:F:394:ARG:H	1.74	0.51
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.75	0.51
1:K:123:MET:C	1:K:125:PRO:HD3	2.35	0.51
2:M:64:LEU:HB2	2:M:359:MET:SD	2.51	0.51
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.75	0.51
2:M:137:VAL:CG2	2:M:391:LEU:HG	2.40	0.51
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.41	0.51
2:M:290:LEU:HD23	2:M:290:LEU:H	1.75	0.51
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.93	0.51
3:N:112:ILE:HG22	3:N:512:MET:SD	2.51	0.51
3:N:154:THR:HG23	3:N:157:GLU:H	1.76	0.51
3:N:543:LEU:HD21	3:N:600:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:638:LYS:HE3	9:N:9110:HOH:O	2.11	0.51
3:N:770:LEU:HD12	3:N:1210:SER:O	2.11	0.51
3:N:799:LYS:H	3:N:826:PRO:HG2	1.76	0.51
1:A:58:ILE:HB	1:A:61:VAL:HB	1.92	0.51
1:B:46:SER:O	1:B:148:VAL:HB	2.10	0.51
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.45	0.51
2:C:199:VAL:HG21	9:C:1222:HOH:O	2.09	0.51
2:C:387:SER:HB2	2:C:388:ARG:HD3	1.93	0.51
2:C:742:VAL:HG12	2:C:743:VAL:N	2.26	0.51
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.38	0.51
3:D:131:LYS:CE	5:F:83:GLN:HE22	2.24	0.51
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.91	0.51
3:D:633:VAL:C	3:D:635:PRO:HD3	2.36	0.51
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.93	0.51
2:M:749:VAL:HG12	2:M:753:ASP:HB2	1.92	0.51
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.40	0.51
3:N:65:ARG:HB3	5:P:375:LEU:O	2.11	0.51
3:N:628:ARG:HG2	3:N:744:GLN:HE21	1.76	0.51
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.93	0.51
3:N:1014:ASN:HA	9:N:9833:HOH:O	2.09	0.51
3:N:1093:TYR:HA	3:N:1096:ARG:NH2	2.25	0.51
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.92	0.51
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.41	0.51
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.41	0.51
1:B:101:LEU:HG	1:B:114:PHE:HA	1.92	0.51
1:B:105:GLY:O	1:B:132:LEU:HB3	2.11	0.51
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.41	0.51
2:C:358:ARG:HH12	2:C:374:ASN:HB3	1.76	0.51
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.92	0.51
3:D:186:VAL:HG23	9:D:9609:HOH:O	2.11	0.51
3:D:528:VAL:HG23	3:D:536:ALA:O	2.10	0.51
3:D:969:ARG:O	3:D:972:LEU:HB3	2.11	0.51
3:D:1066:THR:HG22	3:D:1069:GLU:HG3	1.93	0.51
5:F:262:VAL:HG12	5:F:266:GLU:OE2	2.10	0.51
5:F:277:GLN:O	5:F:280:GLN:HB3	2.10	0.51
2:M:283:ILE:HA	9:M:1764:HOH:O	2.10	0.51
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.92	0.51
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.93	0.51
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.92	0.51
2:M:853:LEU:HB3	2:M:858:MET:HE3	1.91	0.51
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1080:SER:HB2	9:M:1326:HOH:O	2.11	0.51
3:N:215:TYR:HB3	9:N:9520:HOH:O	2.11	0.51
3:N:524:LEU:HD23	9:N:9039:HOH:O	2.11	0.51
5:P:95:THR:HB	5:P:96:LEU:HD23	1.93	0.51
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.41	0.51
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.45	0.51
2:C:274:ARG:HD3	9:C:2046:HOH:O	2.09	0.51
2:C:473:ARG:HD3	2:C:531:PHE:HE1	1.75	0.51
2:C:720:GLU:HA	2:C:759:THR:O	2.11	0.51
2:C:769:PRO:O	2:C:772:ARG:HB3	2.11	0.51
2:C:1005:MET:CE	3:D:648:MET:HB2	2.41	0.51
3:D:179:VAL:HG22	3:D:389:GLU:CG	2.41	0.51
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.41	0.51
3:D:1354:LYS:HA	9:D:9764:HOH:O	2.10	0.51
3:D:1382:THR:CG2	3:D:1418:LYS:HE3	2.39	0.51
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.51
5:F:121:GLY:HA3	9:F:650:HOH:O	2.11	0.51
5:F:404:ALA:HA	9:F:428:HOH:O	2.10	0.51
1:K:63:HIS:HD2	1:K:65:PHE:N	2.09	0.51
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.76	0.51
1:L:95:GLN:HA	1:L:146:ARG:HD2	1.92	0.51
2:M:584:GLU:O	2:M:588:VAL:HG13	2.11	0.51
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.41	0.51
3:N:65:ARG:HG3	3:N:66:GLN:N	2.12	0.51
3:N:593:ASN:OD1	3:N:594:PRO:HD2	2.11	0.51
3:N:681:ARG:HD3	9:N:9087:HOH:O	2.10	0.51
3:N:953:ASP:O	3:N:955:VAL:HG23	2.10	0.51
3:N:1080:GLY:HA3	9:N:9068:HOH:O	2.10	0.51
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.11	0.51
3:N:1362:LYS:HD2	9:N:9355:HOH:O	2.11	0.51
4:O:26:ARG:O	4:O:29:GLN:HG3	2.11	0.51
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.11	0.51
1:A:176:ARG:O	1:A:200:TRP:HE3	1.93	0.50
1:B:1:MET:HE3	9:B:365:HOH:O	2.12	0.50
2:C:166:PRO:HD2	9:C:1436:HOH:O	2.11	0.50
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.41	0.50
2:C:462:ASP:CG	2:C:468:ARG:HD2	2.36	0.50
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.46	0.50
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.26	0.50
3:D:56:TYR:CE2	3:D:69:GLU:HB2	2.45	0.50
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:818:ARG:HD2	9:D:9402:HOH:O	2.10	0.50
3:D:865:THR:CG2	3:D:874:GLU:HG2	2.41	0.50
5:F:134:LYS:HD2	9:F:721:HOH:O	2.11	0.50
1:L:60:ASP:HB2	9:L:3794:HOH:O	2.10	0.50
2:M:107:LEU:HB2	9:M:1746:HOH:O	2.10	0.50
2:M:288:ARG:HB2	9:M:1581:HOH:O	2.11	0.50
2:M:396:ASP:HA	2:M:633:GLN:OE1	2.11	0.50
2:M:462:ASP:OD1	2:M:468:ARG:HG2	2.12	0.50
3:N:173:PRO:HA	9:N:9622:HOH:O	2.11	0.50
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.93	0.50
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.36	0.50
2:C:94:LEU:HD12	2:C:95:TYR:N	2.26	0.50
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.41	0.50
2:C:433:THR:C	2:C:435:TYR:H	2.18	0.50
2:C:749:VAL:HB	2:C:792:VAL:HG21	1.93	0.50
2:C:1004:LYS:O	2:C:1005:MET:C	2.52	0.50
2:C:1086:ARG:HB3	2:C:1112:PHE:HE2	1.76	0.50
3:D:496:LEU:HD22	9:D:9267:HOH:O	2.11	0.50
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.41	0.50
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.40	0.50
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.76	0.50
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.93	0.50
5:F:301:ALA:HB2	9:F:684:HOH:O	2.11	0.50
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.93	0.50
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.26	0.50
1:K:178:ALA:O	1:K:198:ARG:HG3	2.12	0.50
2:M:85:GLU:HG3	9:M:1240:HOH:O	2.11	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.11	0.50
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.50
2:M:726:ILE:HG22	2:M:726:ILE:O	2.11	0.50
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.57	0.50
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.76	0.50
3:N:141:ILE:HD13	3:N:450:TYR:H	1.77	0.50
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.39	0.50
3:N:666:ILE:O	3:N:676:MET:HE2	2.11	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.41	0.50
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.92	0.50
3:N:983:LEU:HD13	3:N:991:GLN:OE1	2.12	0.50
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.42	0.50
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.47	0.50
2:C:49:ARG:HA	9:C:1342:HOH:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.46	0.50
2:C:969:GLN:HG2	9:C:1454:HOH:O	2.11	0.50
3:D:81:THR:HG22	3:D:82:LYS:N	2.26	0.50
3:D:149:LYS:HE3	9:D:9873:HOH:O	2.12	0.50
3:D:171:LEU:HD13	3:D:389:GLU:C	2.36	0.50
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.93	0.50
3:D:486:ARG:HB3	9:D:9316:HOH:O	2.10	0.50
3:D:829:VAL:HG21	9:D:9008:HOH:O	2.12	0.50
3:D:1137:ARG:HG2	9:D:9554:HOH:O	2.11	0.50
5:F:123:ASP:HB2	5:F:126:LEU:HD22	1.93	0.50
5:F:201:LYS:HG2	9:F:891:HOH:O	2.10	0.50
5:F:291:ILE:O	5:F:295:MET:HB2	2.11	0.50
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.93	0.50
1:L:219:ARG:HB3	1:L:219:ARG:CZ	2.41	0.50
2:M:101:ILE:HG22	2:M:102:HIS:H	1.76	0.50
2:M:669:GLY:HA3	2:M:995:MET:HA	1.93	0.50
2:M:700:TYR:HB2	2:M:833:LEU:HD22	1.93	0.50
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.46	0.50
3:N:955:VAL:HG11	3:N:1015:TYR:HE2	1.76	0.50
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.41	0.50
5:P:217:ASN:O	5:P:221:ILE:HG13	2.12	0.50
5:P:289:GLU:O	5:P:293:GLU:HG3	2.11	0.50
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.42	0.50
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.92	0.50
2:C:267:TYR:CD1	2:C:272:ALA:HB1	2.47	0.50
2:C:612:VAL:HG22	2:C:622:GLU:HB2	1.93	0.50
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.77	0.50
2:C:651:LYS:HD2	9:C:1839:HOH:O	2.11	0.50
2:C:806:LEU:HD22	9:C:1461:HOH:O	2.11	0.50
2:C:871:LEU:CD1	2:C:992:MET:HE1	2.41	0.50
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.47	0.50
3:D:407:VAL:HG21	9:D:2098:HOH:O	2.12	0.50
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.46	0.50
3:D:704:ARG:HG3	3:D:736:PHE:HB3	1.93	0.50
3:D:790:TYR:HD2	3:D:906:GLN:O	1.94	0.50
3:D:1045:MET:HB2	9:D:9034:HOH:O	2.11	0.50
4:E:40:LEU:HB3	9:E:164:HOH:O	2.11	0.50
1:L:110:LYS:HG2	1:L:127:LEU:O	2.11	0.50
2:M:709:GLU:HG3	2:M:824:ARG:HG2	1.93	0.50
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.41	0.50
3:N:180:LYS:HB3	9:N:9334:HOH:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:643:GLY:CA	3:N:727:GLN:HB2	2.41	0.50
3:N:788:GLY:O	3:N:792:ILE:HG22	2.11	0.50
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.11	0.50
3:N:1267:ARG:HH12	3:N:1331:ASP:CB	2.24	0.50
3:N:1472:ILE:O	3:N:1477:GLY:HA3	2.10	0.50
2:C:15:LEU:HD12	9:C:1190:HOH:O	2.11	0.50
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.93	0.50
2:C:439:CYS:SG	2:C:540:PHE:HB3	2.52	0.50
2:C:701:THR:HA	2:C:831:ARG:O	2.11	0.50
2:C:757:GLY:HA2	2:C:789:SER:OG	2.12	0.50
2:C:798:GLY:C	2:C:799:ILE:HD13	2.37	0.50
2:C:1001:VAL:HG23	9:C:1965:HOH:O	2.10	0.50
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.50
3:D:768:ASN:HD22	3:D:768:ASN:N	2.09	0.50
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.27	0.50
5:F:153:PRO:HG2	5:F:154:LYS:H	1.77	0.50
5:F:202:TYR:HB2	5:F:212:LEU:HD21	1.93	0.50
5:F:392:VAL:CG1	5:F:396:ARG:HE	2.24	0.50
2:M:322:VAL:HG12	9:M:1579:HOH:O	2.11	0.50
2:M:501:THR:OG1	2:M:532:MET:HE1	2.11	0.50
2:M:626:ARG:CB	2:M:639:GLN:HE22	2.12	0.50
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.93	0.50
2:M:775:ARG:HH12	5:P:421:PHE:HD2	1.59	0.50
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.12	0.50
3:N:36:THR:HG21	9:N:9656:HOH:O	2.12	0.50
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.47	0.50
3:N:860:LEU:H	3:N:860:LEU:HD12	1.76	0.50
1:A:19:GLU:O	1:A:200:TRP:HA	2.11	0.50
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.11	0.50
2:C:194:VAL:HG21	2:C:221:LEU:O	2.11	0.50
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.42	0.50
2:C:251:ASP:HB3	2:C:252:LYS:CE	2.41	0.50
2:C:396:ASP:HA	2:C:633:GLN:OE1	2.12	0.50
2:C:686:ASP:HB3	9:C:1260:HOH:O	2.11	0.50
3:D:135:LEU:HA	3:D:453:ASP:O	2.12	0.50
3:D:229:ALA:HB1	9:D:9029:HOH:O	2.11	0.50
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.59	0.50
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.25	0.50
5:F:321:ILE:HG22	5:F:322:GLY:N	2.27	0.50
1:K:26:GLU:CB	1:K:194:LYS:HG3	2.42	0.50
2:M:752:GLY:C	2:M:791:ARG:HH12	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:126:VAL:O	3:N:132:TYR:HD1	1.95	0.50
3:N:637:LEU:HD11	3:N:641:GLN:C	2.36	0.50
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.27	0.50
1:B:90:LEU:HD23	9:B:411:HOH:O	2.10	0.50
2:C:22:GLN:O	2:C:121:MET:HE1	2.11	0.50
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.94	0.50
2:C:688:ILE:CD1	2:C:847:GLY:HA3	2.41	0.50
2:C:975:TYR:N	2:C:975:TYR:CD1	2.79	0.50
3:D:603:LEU:O	3:D:606:ILE:HB	2.11	0.50
3:D:1198:TYR:HE2	3:D:1377:LYS:HE3	1.76	0.50
3:D:1209:LEU:HG	3:D:1219:GLU:OE2	2.11	0.50
4:E:37:ASN:HD22	4:E:89:MET:HE2	1.76	0.50
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.47	0.50
1:K:218:LEU:O	1:K:222:LEU:HD23	2.12	0.50
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.12	0.50
2:M:191:PHE:O	2:M:192:PRO:C	2.55	0.50
2:M:717:LEU:HD23	2:M:717:LEU:N	2.27	0.50
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.12	0.50
3:N:411:THR:HG21	9:N:9050:HOH:O	2.12	0.50
3:N:481:MET:HE1	3:N:493:ARG:NH2	2.27	0.50
3:N:487:ALA:HB3	9:N:9145:HOH:O	2.12	0.50
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.38	0.50
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
3:N:756:GLN:O	3:N:760:ARG:HG2	2.12	0.50
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.93	0.50
5:P:126:LEU:HB3	9:P:4172:HOH:O	2.11	0.50
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.37	0.50
1:B:148:VAL:HA	9:B:597:HOH:O	2.12	0.50
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.25	0.50
2:C:421:GLU:O	2:C:421:GLU:CD	2.55	0.50
2:C:435:TYR:C	2:C:437:ARG:H	2.19	0.50
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.41	0.50
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.50
2:C:732:ALA:O	2:C:735:ARG:HG3	2.12	0.50
2:C:735:ARG:HG2	2:C:735:ARG:HH11	1.77	0.50
2:C:946:ARG:HB3	9:C:1400:HOH:O	2.12	0.50
2:C:1019:GLN:HE21	2:C:1019:GLN:H	1.59	0.50
3:D:12:LEU:HB2	9:D:9124:HOH:O	2.11	0.50
3:D:211:VAL:HG11	9:D:9609:HOH:O	2.12	0.50
3:D:401:TYR:CE2	3:D:415:VAL:HG13	2.47	0.50
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.42	0.50
4:E:19:LEU:O	4:E:23:VAL:HG23	2.12	0.50
5:F:273:ARG:HG2	5:F:276:ARG:NH1	2.27	0.50
5:F:385:GLU:O	5:F:397:ILE:HD13	2.12	0.50
1:K:132:LEU:HD12	1:K:132:LEU:N	2.26	0.50
1:L:80:LEU:HD23	3:N:867:ARG:NH2	2.27	0.50
2:M:54:ILE:O	2:M:54:ILE:HG23	2.12	0.50
2:M:676:ILE:HD12	2:M:871:LEU:HB2	1.92	0.50
3:N:730:PRO:HA	3:N:733:CYS:SG	2.52	0.50
3:N:1194:CYS:HB3	3:N:1373:ARG:HH22	1.75	0.50
3:N:1376:MET:HE3	3:N:1421:LEU:CD1	2.41	0.50
4:O:48:MET:CB	4:O:54:LEU:HB2	2.42	0.50
5:P:419:ARG:O	5:P:421:PHE:N	2.45	0.50
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.76	0.50
1:B:39:PRO:O	1:B:43:ILE:HG12	2.12	0.50
2:C:17:PRO:O	2:C:20:GLU:HB3	2.11	0.50
2:C:279:GLU:HG3	2:C:280:LYS:N	2.26	0.50
2:C:333:ILE:N	2:C:333:ILE:HD12	2.26	0.50
2:C:513:VAL:HG13	9:C:1221:HOH:O	2.12	0.50
2:C:590:ASP:HB2	9:C:1272:HOH:O	2.11	0.50
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.94	0.50
3:D:115:LEU:HD21	3:D:465:LEU:HD21	1.94	0.50
3:D:407:VAL:HG11	9:D:9652:HOH:O	2.11	0.50
3:D:690:ALA:O	3:D:694:VAL:HG23	2.11	0.50
3:D:827:ILE:O	3:D:837:GLY:HA3	2.12	0.50
3:D:892:ASP:HB3	3:D:895:VAL:HB	1.94	0.50
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.42	0.50
3:D:1318:TYR:HB3	9:D:9944:HOH:O	2.11	0.50
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.11	0.50
1:L:159:LYS:HE3	9:L:5309:HOH:O	2.11	0.50
1:L:226:SER:O	1:L:228:PRO:HD3	2.12	0.50
2:M:73:LEU:HD12	2:M:73:LEU:O	2.12	0.50
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.42	0.50
2:M:284:ARG:HB2	9:M:1270:HOH:O	2.12	0.50
2:M:435:TYR:C	2:M:437:ARG:H	2.19	0.50
2:M:603:VAL:HG23	2:M:647:GLN:O	2.11	0.50
2:M:676:ILE:O	3:N:948:THR:HG23	2.12	0.50
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.41	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.30	0.50
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.50
3:N:1086:LEU:HD12	9:N:9724:HOH:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1425:THR:HG23	3:N:1426:LYS:H	1.77	0.50
5:P:297:PRO:HB3	9:P:5408:HOH:O	2.11	0.50
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.49
1:A:88:ARG:NH1	1:A:90:LEU:HD21	2.27	0.49
1:A:216:GLU:HG2	9:A:416:HOH:O	2.12	0.49
1:B:91:ASN:O	1:B:94:LEU:HD12	2.12	0.49
2:C:395:LYS:HE3	2:C:403:SER:HB2	1.94	0.49
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.12	0.49
2:C:941:VAL:O	2:C:944:LEU:HB2	2.12	0.49
2:C:993:PHE:CD1	2:C:993:PHE:C	2.90	0.49
9:C:1814:HOH:O	3:D:630:VAL:HG21	2.12	0.49
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.26	0.49
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.27	0.49
3:D:590:PRO:HG2	9:D:9991:HOH:O	2.11	0.49
3:D:844:ALA:O	3:D:867:ARG:HB3	2.11	0.49
5:F:247:ILE:O	5:F:251:ILE:HG13	2.11	0.49
1:K:213:GLN:O	1:K:217:ILE:HG13	2.12	0.49
1:L:7:LYS:HA	9:L:3817:HOH:O	2.12	0.49
1:L:127:LEU:HA	9:L:5627:HOH:O	2.11	0.49
2:M:71:TYR:HA	9:M:1826:HOH:O	2.11	0.49
2:M:74:GLY:O	2:M:76:PRO:HD3	2.12	0.49
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.94	0.49
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.93	0.49
2:M:438:ILE:CD1	2:M:467:ILE:HD12	2.42	0.49
3:N:448:GLU:HG3	9:N:9605:HOH:O	2.12	0.49
3:N:633:VAL:C	3:N:635:PRO:HD3	2.36	0.49
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.42	0.49
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.76	0.49
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.42	0.49
3:N:1485:GLN:HE21	4:O:80:VAL:N	2.07	0.49
5:P:153:PRO:HG3	9:P:7043:HOH:O	2.13	0.49
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.36	0.49
1:B:185:ARG:HB2	9:B:530:HOH:O	2.11	0.49
2:C:80:GLN:O	2:C:83:CYS:HB2	2.12	0.49
2:C:159:ILE:HG22	9:C:2004:HOH:O	2.12	0.49
2:C:281:LEU:CD1	2:C:306:THR:HA	2.42	0.49
2:C:364:GLU:HB3	9:C:1329:HOH:O	2.12	0.49
2:C:495:THR:H	2:C:530:GLU:CD	2.19	0.49
3:D:6:ARG:HG3	3:D:7:LYS:HG3	1.93	0.49
3:D:60:CYS:HB3	9:D:9088:HOH:O	2.12	0.49
3:D:897:TRP:CZ3	3:D:902:LEU:HD21	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:43:GLU:HG2	4:E:44:GLU:H	1.77	0.49
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.42	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.23	0.49
2:M:212:GLY:C	2:M:215:GLY:H	2.20	0.49
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.93	0.49
2:M:670:GLN:HE22	2:M:699:PHE:C	2.20	0.49
2:M:821:GLU:HB2	9:M:1696:HOH:O	2.13	0.49
2:M:1093:GLN:HB3	3:N:90:MET:HE2	1.94	0.49
3:N:137:PRO:HD2	3:N:453:ASP:CG	2.38	0.49
3:N:185:VAL:HG13	9:N:2296:HOH:O	2.12	0.49
3:N:388:HIS:H	5:P:97:GLU:HG3	1.77	0.49
3:N:624:ASP:HB3	3:N:625:TYR:HD1	1.75	0.49
3:N:1045:MET:HB3	3:N:1072:ILE:HG22	1.93	0.49
3:N:1429:LEU:HG	3:N:1441:GLN:HB2	1.93	0.49
5:P:214:GLN:O	5:P:217:ASN:HB2	2.13	0.49
1:A:27:PRO:HG2	1:A:186:LEU:CD2	2.39	0.49
1:A:192:LEU:HA	9:A:345:HOH:O	2.12	0.49
1:A:208:LEU:CD1	1:A:212:ASN:HD21	2.24	0.49
1:A:212:ASN:O	1:A:215:VAL:HG22	2.13	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.47	0.49
2:C:234:ALA:HA	9:C:1236:HOH:O	2.12	0.49
2:C:498:GLN:O	2:C:501:THR:HG23	2.12	0.49
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.12	0.49
3:D:971:LEU:HD11	3:D:992:ILE:HD13	1.94	0.49
3:D:1026:SER:C	3:D:1028:ALA:H	2.19	0.49
3:D:1086:LEU:HD11	6:D:8001:STD:H6	1.94	0.49
3:D:1164:ARG:HG3	9:D:9760:HOH:O	2.12	0.49
4:E:26:ARG:HE	4:E:30:LEU:CD1	2.24	0.49
4:E:54:LEU:HG	4:E:58:PRO:CG	2.41	0.49
5:F:295:MET:HG3	9:F:706:HOH:O	2.12	0.49
1:K:197:LEU:HD23	1:K:197:LEU:H	1.76	0.49
1:L:45:LEU:HD12	9:L:5472:HOH:O	2.12	0.49
2:M:184:MET:HE1	2:M:186:VAL:HG13	1.94	0.49
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.36	0.49
2:M:561:GLY:HA3	2:M:842:ARG:O	2.12	0.49
2:M:743:VAL:HG11	2:M:800:VAL:HG21	1.95	0.49
2:M:920:GLN:HG2	9:M:1233:HOH:O	2.11	0.49
3:N:482:LYS:HA	3:N:489:ARG:HH21	1.77	0.49
3:N:1075:HIS:O	3:N:1079:LYS:HD3	2.12	0.49
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1254:GLN:OE1	3:N:1355:VAL:HG13	2.13	0.49
3:N:1342:GLU:HB3	9:N:9279:HOH:O	2.11	0.49
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.12	0.49
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.41	0.49
5:P:361:LEU:HD23	5:P:362:SER:N	2.27	0.49
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.47	0.49
2:C:101:ILE:HG22	2:C:102:HIS:N	2.27	0.49
2:C:249:LYS:HE3	9:C:1212:HOH:O	2.11	0.49
2:C:384:GLU:HA	2:C:388:ARG:CZ	2.42	0.49
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.94	0.49
2:C:767:PRO:HG2	9:C:1376:HOH:O	2.11	0.49
2:C:817:PRO:C	2:C:819:VAL:H	2.19	0.49
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.11	0.49
3:D:178:LEU:HD11	9:D:9048:HOH:O	2.12	0.49
3:D:393:ILE:N	3:D:393:ILE:HD12	2.28	0.49
3:D:480:GLU:O	3:D:484:PRO:HD2	2.11	0.49
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.93	0.49
3:D:586:ARG:HG2	9:D:9444:HOH:O	2.11	0.49
3:D:601:ARG:HE	3:D:606:ILE:HA	1.76	0.49
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.46	0.49
3:D:1405:GLU:CD	3:D:1413:THR:HB	2.37	0.49
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.77	0.49
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.47	0.49
3:N:27:GLU:N	9:N:9381:HOH:O	2.45	0.49
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.94	0.49
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.94	0.49
3:N:616:GLN:HA	9:N:9336:HOH:O	2.12	0.49
3:N:828:LYS:N	3:N:828:LYS:HD3	2.28	0.49
3:N:875:THR:HB	9:N:9245:HOH:O	2.13	0.49
4:O:61:GLU:O	4:O:65:MET:HG3	2.11	0.49
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.93	0.49
5:P:185:GLN:O	5:P:189:GLU:HG3	2.12	0.49
1:A:50:GLY:O	1:A:146:ARG:HA	2.12	0.49
1:A:74:ASP:O	1:A:78:ILE:HG13	2.11	0.49
2:C:195:LEU:CD2	2:C:238:LEU:HG	2.42	0.49
9:C:1967:HOH:O	3:D:618:LEU:HD22	2.12	0.49
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.27	0.49
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.27	0.49
3:D:1432:LYS:HB2	9:D:9247:HOH:O	2.12	0.49
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.93	0.49
5:F:166:LEU:HD22	5:F:170:HIS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:26:GLU:CB	1:L:194:LYS:HG3	2.38	0.49
1:L:50:GLY:O	1:L:146:ARG:HA	2.13	0.49
1:L:99:LEU:HD21	1:L:122:ILE:HD11	1.94	0.49
2:M:51:THR:CB	2:M:348:LEU:HD23	2.42	0.49
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.94	0.49
2:M:589:ARG:HH11	2:M:589:ARG:CB	2.22	0.49
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.93	0.49
3:N:567:ILE:C	3:N:571:LYS:HZ2	2.20	0.49
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.42	0.49
3:N:780:LYS:NZ	3:N:780:LYS:HB2	2.27	0.49
3:N:1059:SER:HB3	9:N:9480:HOH:O	2.11	0.49
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.13	0.49
1:A:62:LEU:HD23	1:A:163:ASN:HD21	1.77	0.49
2:C:374:ASN:HB2	9:C:1848:HOH:O	2.13	0.49
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.93	0.49
2:C:516:ARG:CD	2:C:521:PRO:HA	2.43	0.49
2:C:641:PRO:HD2	9:C:1276:HOH:O	2.13	0.49
2:C:930:LYS:HA	9:C:1256:HOH:O	2.12	0.49
3:D:93:ILE:HG12	3:D:548:ILE:CD1	2.43	0.49
3:D:404:GLU:HB3	3:D:414:ARG:HD2	1.95	0.49
3:D:664:LYS:HG2	9:D:9879:HOH:O	2.12	0.49
3:D:815:ALA:HA	9:D:9402:HOH:O	2.12	0.49
3:D:962:GLN:HG3	9:D:2033:HOH:O	2.12	0.49
5:F:181:GLU:O	5:F:184:ARG:HB3	2.12	0.49
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.48	0.49
2:M:37:GLU:HB2	9:M:2125:HOH:O	2.13	0.49
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.13	0.49
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.41	0.49
2:M:227:PHE:HB3	9:M:1419:HOH:O	2.13	0.49
2:M:517:ARG:HD3	2:M:522:VAL:HG11	1.93	0.49
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.48	0.49
2:M:1042:ALA:CB	3:N:710:ARG:HD3	2.43	0.49
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.48	0.49
3:N:1211:MET:SD	4:O:16:LYS:HD2	2.52	0.49
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.12	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.42	0.49
1:A:103:ALA:HB1	1:A:107:LYS:HD3	1.94	0.49
1:A:208:LEU:HD11	1:A:212:ASN:HD21	1.77	0.49
1:A:209:GLU:O	1:A:213:GLN:HG3	2.12	0.49
1:B:87:VAL:HG21	1:B:144:VAL:CG1	2.36	0.49
1:B:176:ARG:HH22	3:D:884:ARG:CD	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:161:SER:HB2	9:C:1193:HOH:O	2.13	0.49
2:C:745:ILE:HD11	9:C:1385:HOH:O	2.12	0.49
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.95	0.49
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.48	0.49
3:D:68:PHE:O	3:D:71:LYS:HG2	2.13	0.49
3:D:169:TYR:N	3:D:170:PRO:CD	2.76	0.49
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.42	0.49
3:D:473:LEU:HD21	3:D:495:ARG:NE	2.28	0.49
3:D:573:MET:SD	5:F:210:LEU:HB3	2.52	0.49
3:D:986:ARG:HD2	9:D:9742:HOH:O	2.11	0.49
5:F:402:ASN:O	5:F:406:ARG:HG3	2.13	0.49
1:L:161:ARG:HG3	9:L:4789:HOH:O	2.11	0.49
2:M:34:VAL:HG12	9:M:1886:HOH:O	2.11	0.49
2:M:571:LEU:HA	2:M:701:THR:O	2.12	0.49
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.42	0.49
2:M:863:ASP:O	2:M:865:THR:N	2.45	0.49
2:M:1107:ASN:HA	9:M:1260:HOH:O	2.13	0.49
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.77	0.49
3:N:703:ASN:ND2	3:N:704:ARG:H	2.10	0.49
3:N:820:GLU:HA	3:N:825:ALA:O	2.12	0.49
3:N:945:SER:OG	3:N:947:ILE:HG23	2.13	0.49
3:N:950:GLY:O	3:N:953:ASP:HB2	2.12	0.49
2:C:160:ALA:O	2:C:173:ASP:HA	2.12	0.49
2:C:254:VAL:HA	2:C:257:VAL:HG23	1.95	0.49
2:C:630:ARG:HH21	2:C:705:ILE:CG2	2.18	0.49
9:C:1210:HOH:O	3:D:1048:PRO:HG2	2.11	0.49
3:D:65:ARG:H	3:D:68:PHE:HZ	1.61	0.49
3:D:126:VAL:O	3:D:132:TYR:HD1	1.96	0.49
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.42	0.49
3:D:706:PRO:HD2	9:D:9170:HOH:O	2.12	0.49
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.47	0.49
5:F:151:LEU:HB2	5:F:155:THR:H	1.78	0.49
5:F:245:GLN:HB3	9:F:604:HOH:O	2.13	0.49
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.43	0.49
1:K:86:VAL:HG23	9:K:4248:HOH:O	2.13	0.49
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.27	0.49
1:L:189:ARG:HB3	9:L:3718:HOH:O	2.12	0.49
1:L:207:PRO:HD2	9:L:4122:HOH:O	2.12	0.49
2:M:3:ILE:HB	9:M:2130:HOH:O	2.12	0.49
2:M:264:PRO:HB3	2:M:289:THR:HB	1.93	0.49
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:925:TYR:C	2:M:925:TYR:HD1	2.21	0.49
3:N:57:GLU:HG2	3:N:58:CYS:N	2.27	0.49
3:N:135:LEU:HA	3:N:453:ASP:O	2.13	0.49
3:N:152:LEU:HD23	3:N:152:LEU:N	2.21	0.49
3:N:212:ARG:HD2	9:N:9466:HOH:O	2.13	0.49
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.43	0.49
3:N:693:GLU:HA	4:O:48:MET:HE1	1.94	0.49
3:N:793:THR:HA	9:N:9545:HOH:O	2.12	0.49
3:N:1026:SER:C	3:N:1028:ALA:H	2.20	0.49
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.13	0.49
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.43	0.49
1:A:88:ARG:CZ	1:A:90:LEU:HD21	2.43	0.49
2:C:79:PRO:HD2	2:C:82:GLU:HB2	1.95	0.49
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.13	0.49
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.43	0.49
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.94	0.49
3:D:493:ARG:HH11	3:D:493:ARG:HG2	1.77	0.49
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.94	0.49
5:F:131:VAL:HG22	5:F:178:ARG:HG2	1.95	0.49
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.12	0.49
5:F:387:GLY:HA2	9:F:752:HOH:O	2.12	0.49
1:L:123:MET:HA	9:L:6518:HOH:O	2.12	0.49
1:L:143:ARG:NH1	1:L:158:ILE:HD12	2.28	0.49
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.38	0.49
2:M:52:PHE:HD2	9:M:1848:HOH:O	1.95	0.49
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.28	0.49
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.94	0.49
2:M:710:ILE:HB	2:M:790:LEU:CD1	2.41	0.49
3:N:52:PRO:HG2	3:N:79:GLU:O	2.12	0.49
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.13	0.49
3:N:1402:ALA:HB2	3:N:1415:VAL:HG23	1.95	0.49
4:O:43:GLU:HG2	4:O:44:GLU:H	1.78	0.49
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.93	0.49
1:A:185:ARG:HD2	1:A:185:ARG:O	2.13	0.49
1:B:208:LEU:HD13	1:B:212:ASN:HD21	1.78	0.49
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.95	0.49
2:C:350:ARG:HH11	2:C:350:ARG:CB	2.19	0.49
2:C:429:ASP:HA	3:D:1078:ARG:HB3	1.94	0.49
3:D:19:ARG:NH2	3:D:94:GLU:OE2	2.46	0.49
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.49
3:D:136:ASP:HB3	9:D:2221:HOH:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.43	0.49
3:D:440:VAL:HA	9:D:9739:HOH:O	2.13	0.49
3:D:793:THR:HG22	3:D:879:ARG:HA	1.95	0.49
3:D:1135:ARG:HD3	9:D:2510:HOH:O	2.13	0.49
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.48	0.49
5:F:277:GLN:HG3	9:F:492:HOH:O	2.11	0.49
1:K:67:THR:HG23	2:M:627:ARG:HH21	1.78	0.49
2:M:220:GLY:HA3	9:M:1230:HOH:O	2.12	0.49
2:M:368:THR:HG23	9:M:1288:HOH:O	2.12	0.49
2:M:532:MET:HG3	2:M:533:ASP:H	1.76	0.49
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.48	0.49
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.75	0.49
3:N:440:VAL:HG12	3:N:441:ARG:N	2.27	0.49
4:O:94:PRO:HA	9:O:3788:HOH:O	2.12	0.49
1:A:86:VAL:HG21	1:A:202:ASP:O	2.13	0.48
1:A:97:VAL:HG23	9:A:513:HOH:O	2.13	0.48
1:B:10:VAL:HA	9:B:434:HOH:O	2.13	0.48
1:B:19:GLU:HB2	9:B:416:HOH:O	2.13	0.48
2:C:400:PRO:N	9:C:1308:HOH:O	2.45	0.48
2:C:429:ASP:HB3	9:D:9038:HOH:O	2.12	0.48
3:D:132:TYR:HD2	9:D:9028:HOH:O	1.95	0.48
3:D:482:LYS:HD3	9:D:9448:HOH:O	2.12	0.48
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.48
3:D:960:LYS:HZ1	3:D:1041:LEU:HB3	1.78	0.48
3:D:986:ARG:HG3	3:D:990:ASP:OD2	2.12	0.48
3:D:1056:PRO:HD2	9:D:9713:HOH:O	2.12	0.48
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.21	0.48
5:F:143:HIS:HB2	5:F:152:ASP:OD1	2.13	0.48
1:K:19:GLU:CD	1:K:19:GLU:N	2.71	0.48
2:M:19:THR:O	2:M:23:VAL:HG23	2.13	0.48
2:M:66:LEU:HD23	9:M:1162:HOH:O	2.13	0.48
2:M:308:ARG:HB3	9:M:1174:HOH:O	2.13	0.48
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.95	0.48
3:N:44:LEU:HG	9:N:9441:HOH:O	2.13	0.48
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.11	0.48
5:P:392:VAL:HG22	9:P:5677:HOH:O	2.13	0.48
5:P:404:ALA:O	5:P:408:LEU:HD23	2.12	0.48
1:A:219:ARG:NH2	1:B:223:THR:HG22	2.24	0.48
1:B:173:PRO:HG3	9:B:347:HOH:O	2.13	0.48
1:B:206:THR:HG23	1:B:209:GLU:H	1.78	0.48
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:496:ILE:H	2:C:496:ILE:HD12	1.78	0.48
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.95	0.48
2:C:833:LEU:HD12	2:C:834:GLN:H	1.77	0.48
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.95	0.48
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.94	0.48
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.95	0.48
3:D:200:ASP:HB3	9:D:2480:HOH:O	2.13	0.48
3:D:598:ARG:NH1	5:F:320:PRO:HD3	2.27	0.48
3:D:656:PHE:HB3	3:D:694:VAL:CG1	2.44	0.48
3:D:890:VAL:HG13	3:D:926:LYS:CD	2.43	0.48
3:D:1096:ARG:HH11	3:D:1096:ARG:CB	2.24	0.48
3:D:1406:ARG:HG2	3:D:1406:ARG:HH11	1.78	0.48
5:F:82:ARG:HA	9:F:440:HOH:O	2.12	0.48
5:F:318:GLU:HA	9:F:522:HOH:O	2.13	0.48
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.41	0.48
2:M:192:PRO:HD3	9:M:1291:HOH:O	2.12	0.48
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.95	0.48
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.94	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.43	0.48
2:M:437:ARG:HH21	2:M:488:ALA:HA	1.74	0.48
2:M:602:GLU:HA	2:M:647:GLN:O	2.13	0.48
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.14	0.48
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.12	0.48
3:N:28:LYS:HB2	3:N:41:ARG:CZ	2.43	0.48
3:N:83:SER:O	3:N:86:ARG:HB3	2.13	0.48
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.48
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.43	0.48
3:N:1108:ARG:HH21	3:N:1198:TYR:C	2.21	0.48
3:N:1291:SER:HB3	9:N:9004:HOH:O	2.11	0.48
5:P:100:VAL:HG11	9:P:5340:HOH:O	2.12	0.48
1:A:125:PRO:HB2	9:A:439:HOH:O	2.13	0.48
2:C:105:THR:HG21	9:C:1762:HOH:O	2.12	0.48
2:C:182:VAL:HG23	9:C:1307:HOH:O	2.13	0.48
2:C:341:THR:CG2	2:C:345:ARG:HH21	2.27	0.48
3:D:171:LEU:C	3:D:171:LEU:HD12	2.38	0.48
3:D:535:PHE:HB2	9:F:515:HOH:O	2.12	0.48
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.19	0.48
3:D:1065:LEU:C	3:D:1065:LEU:HD12	2.38	0.48
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.48	0.48
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.94	0.48
5:F:416:ARG:HD2	5:F:419:ARG:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:GLY:O	1:K:146:ARG:HA	2.13	0.48
1:K:191:ASP:O	1:K:192:LEU:HD23	2.13	0.48
1:L:23:PHE:O	1:L:196:THR:HA	2.14	0.48
2:M:131:GLY:N	9:M:1177:HOH:O	2.46	0.48
2:M:183:SER:C	2:M:193:LEU:HD11	2.38	0.48
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.93	0.48
2:M:911:GLU:O	2:M:915:LYS:HG2	2.14	0.48
2:M:1015:LEU:HA	5:P:335:ASP:CB	2.40	0.48
2:M:1104:GLU:H	2:M:1104:GLU:CD	2.21	0.48
3:N:490:ALA:HB2	9:N:2018:HOH:O	2.13	0.48
3:N:777:PRO:HD2	3:N:912:LYS:HG3	1.94	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.13	0.48
3:N:1346:ARG:NE	3:N:1346:ARG:HA	2.28	0.48
5:P:256:ARG:HB3	5:P:256:ARG:CZ	2.43	0.48
1:B:50:GLY:O	1:B:146:ARG:HA	2.13	0.48
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.95	0.48
2:C:44:ILE:O	2:C:48:PHE:HB2	2.13	0.48
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.94	0.48
2:C:98:LEU:HA	9:C:1321:HOH:O	2.12	0.48
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.95	0.48
2:C:750:LYS:HD2	9:C:1684:HOH:O	2.14	0.48
2:C:756:VAL:HG21	2:C:823:VAL:HG11	1.95	0.48
2:C:928:LYS:HE3	9:C:1852:HOH:O	2.13	0.48
3:D:82:LYS:O	3:D:85:VAL:HG23	2.13	0.48
3:D:591:VAL:HG22	9:D:9420:HOH:O	2.11	0.48
3:D:930:LEU:O	3:D:934:LEU:HG	2.14	0.48
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.13	0.48
3:D:1087:ARG:C	9:D:9918:HOH:O	2.57	0.48
4:E:77:GLU:HG3	9:E:139:HOH:O	2.12	0.48
2:M:31:GLN:HG2	9:M:1193:HOH:O	2.13	0.48
2:M:193:LEU:HD23	2:M:307:LEU:HD13	1.94	0.48
2:M:585:GLU:HG3	2:M:665:PHE:CE2	2.48	0.48
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.95	0.48
2:M:799:ILE:HD13	2:M:799:ILE:N	2.27	0.48
2:M:876:VAL:O	2:M:879:ARG:O	2.31	0.48
2:M:1007:ALA:HB1	3:N:652:LEU:HD22	1.95	0.48
3:N:427:VAL:HG13	9:N:9964:HOH:O	2.13	0.48
3:N:1262:LEU:HD23	3:N:1352:ILE:HG12	1.95	0.48
4:O:84:ARG:HG3	4:O:84:ARG:O	2.13	0.48
2:C:100:LEU:HD12	2:C:101:ILE:O	2.13	0.48
2:C:274:ARG:CB	2:C:285:LEU:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:569:VAL:HG12	2:C:996:LYS:O	2.14	0.48
2:C:975:TYR:N	2:C:975:TYR:HD1	2.12	0.48
3:D:696:HIS:CD2	4:E:59:ASN:HB2	2.48	0.48
3:D:911:LEU:O	3:D:915:VAL:HG23	2.14	0.48
3:D:926:LYS:HG3	9:D:2130:HOH:O	2.14	0.48
3:D:996:TRP:O	3:D:999:THR:HG22	2.13	0.48
3:D:1413:THR:HG21	9:D:9072:HOH:O	2.14	0.48
5:F:132:ARG:HD3	5:F:181:GLU:OE1	2.14	0.48
5:F:256:ARG:HD3	5:F:260:ILE:HD12	1.95	0.48
5:F:397:ILE:HG21	9:F:553:HOH:O	2.13	0.48
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.28	0.48
2:M:144:PRO:HB2	2:M:267:TYR:CE1	2.47	0.48
2:M:464:LEU:HB2	9:M:1673:HOH:O	2.12	0.48
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.94	0.48
3:N:523:ASP:O	3:N:526:PRO:HG3	2.13	0.48
3:N:715:ALA:O	3:N:764:LEU:HD12	2.13	0.48
3:N:880:ILE:O	3:N:880:ILE:HD13	2.13	0.48
3:N:1086:LEU:HA	6:N:8002:STD:H30	1.96	0.48
3:N:1459:LEU:HD22	3:N:1465:ASN:HD22	1.79	0.48
9:N:9491:HOH:O	5:P:318:GLU:HB3	2.13	0.48
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.43	0.48
1:A:117:VAL:HG12	9:A:324:HOH:O	2.13	0.48
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.95	0.48
1:B:199:ILE:CD1	1:B:211:LEU:HD13	2.42	0.48
2:C:52:PHE:HE1	2:C:66:LEU:HG	1.79	0.48
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.14	0.48
2:C:242:LEU:HD23	9:C:1166:HOH:O	2.14	0.48
2:C:405:ARG:O	2:C:408:ARG:HG3	2.14	0.48
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.17	0.48
3:D:141:ILE:CD1	3:D:450:TYR:HB2	2.40	0.48
3:D:412:GLY:O	3:D:421:LEU:HB3	2.14	0.48
3:D:475:LYS:O	3:D:479:GLU:HG2	2.13	0.48
3:D:1057:VAL:HG22	3:D:1069:GLU:HB3	1.95	0.48
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.62	0.48
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.48	0.48
4:E:31:LEU:HD12	4:E:32:ARG:CD	2.43	0.48
5:F:154:LYS:HB2	9:F:528:HOH:O	2.13	0.48
5:F:399:GLN:O	5:F:403:LYS:HB2	2.14	0.48
5:F:421:PHE:C	5:F:423:ASP:H	2.22	0.48
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.43	0.48
2:M:333:ILE:O	2:M:465:GLY:HA3	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:495:THR:CG2	2:M:517:ARG:HE	2.27	0.48
2:M:769:PRO:HB2	9:M:1243:HOH:O	2.14	0.48
2:M:1014:SER:HB3	2:M:1017:THR:O	2.14	0.48
3:N:551:ASN:O	3:N:555:LYS:HG3	2.13	0.48
3:N:651:GLU:HG2	9:N:9511:HOH:O	2.14	0.48
3:N:799:LYS:O	3:N:799:LYS:HD3	2.13	0.48
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.31	0.48
3:N:1252:ILE:HD13	9:N:9875:HOH:O	2.12	0.48
5:P:141:VAL:O	5:P:145:PRO:HD2	2.13	0.48
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.13	0.48
5:P:321:ILE:HG13	5:P:329:TYR:CA	2.43	0.48
5:P:403:LYS:NZ	5:P:406:ARG:HB2	2.28	0.48
1:A:26:GLU:HG2	1:A:27:PRO:CA	2.43	0.48
1:A:26:GLU:HG2	1:A:27:PRO:HA	1.96	0.48
2:C:27:ARG:HG3	9:C:1390:HOH:O	2.14	0.48
2:C:93:PRO:HD2	9:C:1438:HOH:O	2.14	0.48
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.22	0.48
2:C:585:GLU:O	2:C:588:VAL:HG22	2.13	0.48
2:C:712:ALA:CB	2:C:820:ARG:HH11	2.27	0.48
3:D:661:MET:HA	3:D:666:ILE:CD1	2.43	0.48
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.53	0.48
4:E:50:THR:HG23	9:E:222:HOH:O	2.13	0.48
5:F:141:VAL:HG23	9:F:544:HOH:O	2.13	0.48
5:F:207:LEU:CB	5:F:212:LEU:HD12	2.44	0.48
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.94	0.48
1:L:80:LEU:HD23	3:N:867:ARG:CZ	2.44	0.48
2:M:129:ILE:HD12	2:M:134:ARG:HD2	1.95	0.48
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.95	0.48
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.96	0.48
2:M:832:LYS:HG2	9:M:1238:HOH:O	2.13	0.48
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.43	0.48
3:N:186:VAL:HG13	3:N:187:LYS:N	2.28	0.48
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.95	0.48
3:N:610:LYS:C	3:N:611:GLN:HG2	2.39	0.48
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.78	0.48
5:P:184:ARG:O	5:P:188:ILE:HG13	2.14	0.48
1:A:76:VAL:O	1:A:79:ILE:HG13	2.13	0.48
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.78	0.48
1:A:162:ILE:HA	9:A:494:HOH:O	2.14	0.48
2:C:15:LEU:HD12	2:C:15:LEU:H	1.79	0.48
2:C:171:TRP:HB2	9:C:1835:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.96	0.48
2:C:813:VAL:HG11	9:C:1461:HOH:O	2.13	0.48
2:C:831:ARG:HG2	2:C:831:ARG:HH11	1.77	0.48
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.94	0.48
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.48
3:D:395:VAL:HG21	9:D:9114:HOH:O	2.14	0.48
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.77	0.48
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.94	0.48
5:F:411:HIS:HB2	9:F:455:HOH:O	2.14	0.48
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.96	0.48
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.14	0.48
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.26	0.48
2:M:248:PRO:HG3	9:M:1752:HOH:O	2.14	0.48
2:M:268:ASP:HB2	9:M:1657:HOH:O	2.13	0.48
2:M:328:LEU:HD23	2:M:437:ARG:CD	2.44	0.48
2:M:460:ARG:HG2	2:M:460:ARG:HH11	1.78	0.48
2:M:575:GLN:HA	2:M:662:GLU:CD	2.39	0.48
2:M:752:GLY:O	3:N:679:ARG:HG2	2.13	0.48
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.29	0.48
2:M:1001:VAL:HA	9:M:1286:HOH:O	2.13	0.48
3:N:64:LYS:HD3	5:P:377:ASP:OD2	2.13	0.48
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.49	0.48
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.13	0.48
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.79	0.48
5:P:85:LEU:HB3	9:P:3605:HOH:O	2.14	0.48
5:P:366:ALA:CB	5:P:367:MET:HE2	2.37	0.48
1:A:29:GLU:HB2	1:A:32:PHE:HD1	1.79	0.48
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.43	0.48
2:C:1098:ASP:HB3	9:C:1791:HOH:O	2.14	0.48
3:D:83:SER:O	3:D:86:ARG:HB3	2.14	0.48
3:D:441:ARG:O	3:D:443:VAL:N	2.46	0.48
3:D:1046:GLN:HG3	9:D:9074:HOH:O	2.14	0.48
3:D:1505:ALA:HB3	9:D:9104:HOH:O	2.12	0.48
5:F:154:LYS:HG2	9:F:744:HOH:O	2.14	0.48
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.48	0.48
2:M:163:ILE:HG13	2:M:163:ILE:O	2.14	0.48
2:M:439:CYS:HB2	9:M:1316:HOH:O	2.13	0.48
2:M:513:VAL:HG12	9:M:1155:HOH:O	2.13	0.48
2:M:1008:ARG:HE	2:M:1028:GLY:CA	2.26	0.48
2:M:1018:GLN:HE21	2:M:1063:ARG:NH2	2.12	0.48
2:M:1115:LEU:HD23	3:N:85:VAL:CG1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.96	0.48
3:N:396:VAL:HG22	9:N:9364:HOH:O	2.14	0.48
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.13	0.48
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.43	0.48
3:N:819:GLY:HA2	9:N:9097:HOH:O	2.13	0.48
3:N:1397:LYS:HD3	9:N:2162:HOH:O	2.13	0.48
5:P:350:LEU:HD23	5:P:351:SER:H	1.78	0.48
1:A:54:THR:HG23	1:A:156:HIS:CE1	2.47	0.48
1:A:197:LEU:N	1:A:197:LEU:HD23	2.29	0.48
1:B:52:ALA:N	9:B:467:HOH:O	2.47	0.48
1:B:173:PRO:HA	1:B:202:ASP:OD2	2.14	0.48
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.26	0.48
2:C:958:THR:HG21	9:C:1582:HOH:O	2.13	0.48
3:D:90:MET:CE	3:D:518:PRO:HB3	2.43	0.48
3:D:175:VAL:HG11	9:D:2479:HOH:O	2.13	0.48
3:D:190:GLU:HG3	3:D:210:ARG:HD3	1.95	0.48
3:D:867:ARG:HD3	9:D:9106:HOH:O	2.14	0.48
5:F:109:GLY:O	5:F:112:ALA:HB3	2.14	0.48
5:F:122:LEU:HD23	9:F:445:HOH:O	2.13	0.48
5:F:247:ILE:HG22	5:F:251:ILE:CD1	2.43	0.48
1:K:23:PHE:O	1:K:196:THR:HA	2.14	0.48
1:K:90:LEU:HD21	9:K:4206:HOH:O	2.12	0.48
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.95	0.48
2:M:250:ARG:HG2	9:M:2036:HOH:O	2.12	0.48
2:M:495:THR:HG23	2:M:517:ARG:HE	1.78	0.48
2:M:537:LYS:HG3	2:M:905:ILE:CD1	2.44	0.48
2:M:839:LEU:N	2:M:839:LEU:HD23	2.29	0.48
2:M:944:LEU:HD11	2:M:963:LEU:CD2	2.44	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG11	1.94	0.48
9:M:1452:HOH:O	5:P:423:ASP:HB3	2.14	0.48
3:N:9:ARG:HA	3:N:1455:LYS:O	2.12	0.48
3:N:58:CYS:SG	3:N:59:ALA:N	2.87	0.48
3:N:431:VAL:HG13	9:N:9125:HOH:O	2.14	0.48
3:N:1192:LEU:HD21	3:N:1372:VAL:CG1	2.44	0.48
3:N:1319:VAL:HG11	3:N:1325:LEU:HD11	1.95	0.48
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.96	0.48
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.14	0.48
5:P:94:LEU:HD22	5:P:97:GLU:CB	2.43	0.48
2:C:165:LEU:HD12	2:C:166:PRO:C	2.38	0.47
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.95	0.47
2:C:626:ARG:N	2:C:639:GLN:NE2	2.59	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1113:GLU:HG3	9:C:1553:HOH:O	2.13	0.47
3:D:86:ARG:HG2	3:D:86:ARG:NH1	2.28	0.47
3:D:439:LEU:HD11	9:F:435:HOH:O	2.14	0.47
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.79	0.47
3:D:1312:LEU:HD21	3:D:1327:ARG:HG3	1.94	0.47
5:F:154:LYS:O	5:F:158:GLU:HG3	2.14	0.47
2:M:34:VAL:HB	2:M:38:LYS:CG	2.44	0.47
2:M:47:ALA:O	2:M:50:GLU:HB3	2.13	0.47
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.95	0.47
2:M:253:ALA:HB3	9:M:2036:HOH:O	2.13	0.47
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.44	0.47
3:N:628:ARG:HH11	3:N:744:GLN:NE2	2.11	0.47
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.95	0.47
3:N:908:LYS:HD3	3:N:1027:GLY:HA3	1.95	0.47
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.44	0.47
3:N:1476:THR:HG23	4:O:21:VAL:CG2	2.41	0.47
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.40	0.47
4:O:89:MET:HA	9:O:3549:HOH:O	2.13	0.47
1:A:156:HIS:CD2	1:A:157:GLY:N	2.81	0.47
2:C:165:LEU:HD13	9:C:1871:HOH:O	2.13	0.47
2:C:352:ALA:C	2:C:355:VAL:HG12	2.39	0.47
2:C:554:ASP:HB3	9:C:1189:HOH:O	2.14	0.47
2:C:589:ARG:HB2	9:C:1302:HOH:O	2.14	0.47
2:C:863:ASP:O	2:C:865:THR:N	2.47	0.47
3:D:191:LEU:HD12	9:D:9609:HOH:O	2.13	0.47
3:D:661:MET:CE	3:D:677:LEU:HD11	2.44	0.47
3:D:960:LYS:NZ	3:D:1041:LEU:HB3	2.29	0.47
1:K:47:SER:HB3	1:K:217:ILE:HD13	1.96	0.47
2:M:20:GLU:HG3	9:M:1572:HOH:O	2.14	0.47
2:M:31:GLN:HA	9:M:1193:HOH:O	2.12	0.47
2:M:433:THR:O	2:M:437:ARG:HD2	2.14	0.47
2:M:437:ARG:O	2:M:467:ILE:HG21	2.14	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.47
9:M:1567:HOH:O	3:N:89:ARG:HG3	2.13	0.47
3:N:81:THR:HG22	3:N:82:LYS:N	2.29	0.47
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.95	0.47
3:N:814:ALA:O	3:N:818:ARG:HG3	2.14	0.47
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.14	0.47
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.21	0.47
1:B:69:PRO:HB2	9:B:413:HOH:O	2.13	0.47
2:C:690:ILE:HD11	2:C:694:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:815:LEU:HD23	9:C:1733:HOH:O	2.14	0.47
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.25	0.47
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.49	0.47
3:D:102:ILE:HD12	9:D:9788:HOH:O	2.14	0.47
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.47
3:D:799:LYS:H	3:D:826:PRO:HG2	1.79	0.47
3:D:806:PHE:O	3:D:807:ALA:C	2.56	0.47
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.30	0.47
2:M:167:LYS:HD3	2:M:168:ARG:N	2.28	0.47
2:M:211:LEU:HD11	2:M:308:ARG:HA	1.96	0.47
2:M:324:ASP:CG	2:M:431:HIS:HE1	2.22	0.47
2:M:1018:GLN:HE21	2:M:1060:ILE:CD1	2.21	0.47
3:N:15:PRO:HA	3:N:18:ILE:CG1	2.43	0.47
3:N:33:ASN:OD1	5:P:259:ARG:HB3	2.15	0.47
3:N:41:ARG:NH1	3:N:42:ASP:HB2	2.29	0.47
3:N:858:VAL:HA	9:N:9278:HOH:O	2.14	0.47
3:N:880:ILE:HB	9:N:9245:HOH:O	2.14	0.47
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.96	0.47
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.44	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.47	0.47
2:C:64:LEU:HB2	2:C:359:MET:SD	2.54	0.47
2:C:140:ILE:HG13	2:C:410:ILE:CG2	2.44	0.47
2:C:173:ASP:HB3	9:C:1237:HOH:O	2.15	0.47
2:C:292:ARG:HD2	2:C:299:LYS:HD3	1.96	0.47
2:C:575:GLN:HB2	2:C:670:GLN:OE1	2.14	0.47
2:C:710:ILE:CB	2:C:790:LEU:HD13	2.40	0.47
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.96	0.47
3:D:1197:ARG:HH11	3:D:1198:TYR:HD1	1.61	0.47
3:D:1268:PRO:HG2	3:D:1329:ALA:HB1	1.97	0.47
3:D:1397:LYS:HG2	9:D:9862:HOH:O	2.14	0.47
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.45	0.47
3:D:1475:GLY:HA2	4:E:17:TYR:HE1	1.80	0.47
5:F:128:ARG:O	5:F:132:ARG:HG2	2.15	0.47
2:M:80:GLN:O	2:M:83:CYS:HB2	2.14	0.47
2:M:127:PHE:O	2:M:133:ASP:HA	2.14	0.47
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.49	0.47
2:M:299:LYS:HB2	9:M:1182:HOH:O	2.15	0.47
2:M:583:LEU:N	2:M:583:LEU:HD12	2.29	0.47
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.94	0.47
3:N:52:PRO:HD2	3:N:79:GLU:O	2.14	0.47
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.97	0.47
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.96	0.47
3:N:1051:GLU:H	3:N:1051:GLU:HG3	1.54	0.47
3:N:1065:LEU:HD12	3:N:1070:TYR:HB2	1.95	0.47
5:P:398:ARG:NH1	9:P:6264:HOH:O	2.47	0.47
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.24	0.47
1:B:188:GLN:HG3	9:D:9361:HOH:O	2.14	0.47
2:C:54:ILE:HA	9:C:1626:HOH:O	2.14	0.47
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.44	0.47
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.95	0.47
2:C:376:ARG:HG2	9:C:1987:HOH:O	2.14	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.47
2:C:897:LEU:HB3	2:C:899:GLN:HG2	1.97	0.47
2:C:915:LYS:O	2:C:968:LEU:HD22	2.15	0.47
3:D:42:ASP:O	3:D:46:ASP:HB2	2.14	0.47
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.15	0.47
3:D:1084:THR:HA	3:D:1087:ARG:NH1	2.30	0.47
3:D:1128:VAL:O	3:D:1129:THR:C	2.56	0.47
3:D:1403:LEU:O	3:D:1407:LEU:HD12	2.14	0.47
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.95	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.28	0.47
2:M:50:GLU:HG3	9:M:1427:HOH:O	2.15	0.47
2:M:217:LEU:HG	9:M:1729:HOH:O	2.13	0.47
2:M:402:SER:HA	2:M:566:THR:HG23	1.95	0.47
2:M:433:THR:C	2:M:435:TYR:H	2.22	0.47
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.14	0.47
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.44	0.47
2:M:801:VAL:HG12	9:M:1569:HOH:O	2.13	0.47
2:M:941:VAL:O	2:M:944:LEU:HB2	2.14	0.47
2:M:1103:ASP:OD1	3:N:3:LYS:HB2	2.14	0.47
9:M:1607:HOH:O	3:N:647:ARG:HG3	2.15	0.47
3:N:170:PRO:HG2	9:N:2108:HOH:O	2.14	0.47
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.21	0.47
3:N:681:ARG:HB3	3:N:681:ARG:NH1	2.30	0.47
3:N:828:LYS:HB3	9:N:9243:HOH:O	2.15	0.47
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.95	0.47
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.47
3:N:1195:GLN:OE1	3:N:1196:THR:N	2.48	0.47
5:P:93:LEU:HG	5:P:190:ALA:CB	2.44	0.47
5:P:370:LYS:HD2	5:P:370:LYS:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:ILE:N	1:A:122:ILE:HD12	2.29	0.47
1:A:128:HIS:HB2	9:A:329:HOH:O	2.14	0.47
2:C:65:VAL:HB	2:C:101:ILE:HB	1.96	0.47
2:C:117:HIS:HD2	9:C:1136:HOH:O	1.97	0.47
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.44	0.47
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.25	0.47
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.44	0.47
2:C:426:ASP:HB2	9:C:1138:HOH:O	2.15	0.47
2:C:479:VAL:HG23	2:C:506:ASN:C	2.40	0.47
2:C:620:LEU:HD13	2:C:620:LEU:N	2.29	0.47
2:C:918:LEU:HD23	2:C:968:LEU:HA	1.96	0.47
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.37	0.47
3:D:41:ARG:HD3	3:D:42:ASP:H	1.80	0.47
3:D:385:VAL:HA	9:D:9728:HOH:O	2.15	0.47
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.40	0.47
3:D:1123:PHE:HA	3:D:1133:ARG:O	2.15	0.47
5:F:292:ALA:HB1	5:F:299:TRP:O	2.14	0.47
1:K:186:LEU:CB	1:K:192:LEU:HD11	2.44	0.47
1:L:150:TYR:CE2	3:N:857:ILE:HG13	2.49	0.47
2:M:44:ILE:HA	2:M:344:PHE:HE1	1.78	0.47
2:M:260:LEU:HD21	9:M:1166:HOH:O	2.15	0.47
2:M:287:GLY:O	2:M:288:ARG:C	2.58	0.47
2:M:290:LEU:HB2	9:M:2147:HOH:O	2.14	0.47
2:M:670:GLN:O	2:M:672:VAL:HG13	2.14	0.47
2:M:890:LEU:HA	2:M:914:ILE:HD11	1.96	0.47
3:N:693:GLU:HA	4:O:48:MET:CE	2.44	0.47
3:N:811:GLU:HA	9:N:9613:HOH:O	2.14	0.47
3:N:930:LEU:O	3:N:934:LEU:HG	2.14	0.47
3:N:1223:ILE:HD12	9:N:9798:HOH:O	2.14	0.47
5:P:104:ARG:HA	5:P:229:TYR:CE1	2.48	0.47
5:P:287:THR:O	5:P:289:GLU:N	2.46	0.47
5:P:399:GLN:O	5:P:403:LYS:HB2	2.14	0.47
1:A:14:ARG:HB3	9:A:477:HOH:O	2.13	0.47
1:A:106:PRO:HG3	1:A:133:GLU:O	2.15	0.47
1:A:219:ARG:O	1:A:223:THR:HG23	2.14	0.47
1:B:121:GLU:HB2	9:B:567:HOH:O	2.13	0.47
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.14	0.47
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.44	0.47
2:C:244:PRO:HD3	9:C:1182:HOH:O	2.15	0.47
2:C:264:PRO:HB3	2:C:289:THR:HB	1.96	0.47
2:C:328:LEU:HD13	2:C:433:THR:CB	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:480:THR:HG22	2:C:481:ASP:N	2.30	0.47
3:D:139:GLY:H	3:D:147:VAL:HG21	1.80	0.47
3:D:427:VAL:HA	9:D:9128:HOH:O	2.14	0.47
3:D:496:LEU:HD23	9:D:9266:HOH:O	2.15	0.47
3:D:625:TYR:CD1	3:D:625:TYR:N	2.83	0.47
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.46	0.47
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.97	0.47
3:D:868:TYR:CG	3:D:869:MET:N	2.72	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.14	0.47
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.29	0.47
5:F:112:ALA:O	5:F:116:LEU:HG	2.14	0.47
5:F:129:GLU:HB3	5:F:142:ARG:HH21	1.80	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.15	0.47
5:F:165:SER:HB3	9:F:743:HOH:O	2.14	0.47
5:F:319:THR:N	9:F:522:HOH:O	2.46	0.47
5:F:342:VAL:HG21	9:F:789:HOH:O	2.14	0.47
1:K:19:GLU:O	1:K:200:TRP:HA	2.14	0.47
1:K:85:LEU:HA	1:K:124:ASN:HD22	1.80	0.47
1:L:23:PHE:HB2	1:L:197:LEU:HD23	1.95	0.47
1:L:109:VAL:HG21	1:L:138:LEU:HD21	1.97	0.47
1:L:173:PRO:HG3	9:L:4500:HOH:O	2.15	0.47
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.79	0.47
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.28	0.47
2:M:148:PHE:CZ	2:M:309:TYR:HB3	2.50	0.47
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.28	0.47
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.45	0.47
2:M:637:LEU:HA	2:M:659:PRO:HG3	1.97	0.47
2:M:721:ARG:NH2	2:M:783:ARG:HH21	2.09	0.47
2:M:748:GLU:HB2	9:M:1434:HOH:O	2.14	0.47
2:M:926:PHE:HE1	2:M:929:ARG:NH2	2.13	0.47
2:M:998:TYR:OH	2:M:1000:MET:HA	2.15	0.47
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.15	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.80	0.47
3:N:22:SER:HA	3:N:90:MET:O	2.15	0.47
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.95	0.47
3:N:176:ASP:HA	9:N:9640:HOH:O	2.15	0.47
3:N:177:ALA:HB1	3:N:199:LEU:HB3	1.96	0.47
3:N:181:ASP:O	3:N:185:VAL:HG23	2.15	0.47
3:N:526:PRO:HB2	5:P:317:LEU:HD11	1.97	0.47
3:N:764:LEU:HD12	3:N:765:SER:N	2.30	0.47
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:87:LYS:HD2	9:O:4461:HOH:O	2.15	0.47
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.71	0.47
5:P:263:HIS:HB2	9:P:3994:HOH:O	2.13	0.47
5:P:291:ILE:HG12	5:P:304:VAL:CG1	2.45	0.47
5:P:375:LEU:HD23	5:P:376:ILE:HG13	1.95	0.47
5:P:414:ARG:HD3	9:P:4633:HOH:O	2.15	0.47
1:A:72:LYS:HA	2:C:608:GLY:CA	2.45	0.47
1:A:175:ARG:HB3	9:A:478:HOH:O	2.15	0.47
1:B:23:PHE:O	1:B:196:THR:HA	2.15	0.47
2:C:589:ARG:HG2	9:C:1768:HOH:O	2.14	0.47
2:C:634:GLY:HA3	9:C:2212:HOH:O	2.14	0.47
3:D:44:LEU:O	3:D:525:ARG:NH2	2.47	0.47
3:D:568:ARG:O	3:D:572:ARG:HG3	2.14	0.47
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.96	0.47
3:D:1234:THR:HG23	9:D:9918:HOH:O	2.14	0.47
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.29	0.47
5:F:226:LYS:HA	9:F:842:HOH:O	2.14	0.47
5:F:328:PHE:HA	9:F:522:HOH:O	2.14	0.47
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.95	0.47
1:L:158:ILE:HD13	9:L:5309:HOH:O	2.14	0.47
2:M:137:VAL:O	2:M:391:LEU:HD21	2.14	0.47
2:M:385:PHE:HA	9:M:1703:HOH:O	2.14	0.47
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.96	0.47
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.14	0.47
3:N:438:ASP:HB2	9:N:2136:HOH:O	2.14	0.47
3:N:528:VAL:HG12	3:N:529:GLN:N	2.30	0.47
3:N:607:LEU:HA	3:N:613:ARG:HB2	1.97	0.47
3:N:704:ARG:CD	3:N:705:ALA:H	2.19	0.47
3:N:758:GLU:OE1	4:O:20:THR:HG21	2.14	0.47
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.44	0.47
3:N:1037:GLN:OE1	3:N:1042:ARG:HB3	2.15	0.47
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.15	0.47
4:O:26:ARG:HH11	4:O:29:GLN:CD	2.23	0.47
4:O:52:GLU:HG2	9:O:3988:HOH:O	2.15	0.47
1:A:66:SER:O	1:A:75:VAL:HG23	2.15	0.47
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.97	0.47
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.49	0.47
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.44	0.47
2:C:462:ASP:CG	2:C:463:GLU:H	2.23	0.47
2:C:474:VAL:HG13	2:C:530:GLU:C	2.40	0.47
2:C:543:ASN:C	2:C:543:ASN:HD22	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:691:SER:HB3	2:C:868:ASP:O	2.15	0.47
2:C:1060:ILE:HB	2:C:1083:GLU:HG3	1.97	0.47
3:D:152:LEU:HG	9:D:2087:HOH:O	2.15	0.47
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.30	0.47
3:D:637:LEU:HD21	3:D:643:GLY:H	1.80	0.47
3:D:708:LEU:HB2	9:D:9664:HOH:O	2.15	0.47
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.47
3:D:929:ARG:HH11	3:D:929:ARG:CG	2.28	0.47
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.40	0.47
3:D:1252:ILE:HD12	3:D:1253:THR:H	1.79	0.47
3:D:1264:GLU:CD	3:D:1425:THR:HG22	2.40	0.47
9:D:9452:HOH:O	5:F:315:VAL:HB	2.14	0.47
5:F:270:LYS:HB3	5:F:295:MET:CE	2.44	0.47
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.50	0.47
1:L:52:ALA:HB2	1:L:170:VAL:O	2.14	0.47
1:L:105:GLY:O	1:L:132:LEU:HB3	2.15	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.45	0.47
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.45	0.47
2:M:795:GLY:HA3	2:M:1004:LYS:HD2	1.97	0.47
2:M:1090:LYS:HA	2:M:1090:LYS:HD2	1.72	0.47
3:N:799:LYS:HE2	3:N:824:ASN:O	2.15	0.47
3:N:864:VAL:HG12	3:N:865:THR:H	1.79	0.47
3:N:897:TRP:HB3	9:N:9323:HOH:O	2.14	0.47
3:N:1063:GLU:HG2	9:N:9788:HOH:O	2.15	0.47
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.15	0.47
3:N:1285:GLU:H	3:N:1285:GLU:CD	2.23	0.47
4:O:42:PRO:HB2	9:O:5960:HOH:O	2.13	0.47
5:P:218:GLN:NE2	9:P:5398:HOH:O	2.48	0.47
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.43	0.47
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.45	0.47
2:C:137:VAL:O	2:C:391:LEU:HD11	2.15	0.47
2:C:147:TYR:HE2	2:C:280:LYS:HE2	1.79	0.47
2:C:183:SER:HB2	2:C:190:LYS:CG	2.45	0.47
2:C:473:ARG:HG3	2:C:474:VAL:N	2.29	0.47
2:C:625:LEU:O	2:C:627:ARG:N	2.48	0.47
2:C:687:ALA:C	2:C:688:ILE:HD12	2.40	0.47
2:C:759:THR:HB	2:C:785:VAL:CG2	2.45	0.47
2:C:873:PRO:O	2:C:876:VAL:HG23	2.15	0.47
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.97	0.47
2:C:1088:LEU:HD23	2:C:1089:VAL:N	2.30	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:34:TYR:OH	5:F:261:PRO:HD2	2.15	0.47
3:D:1059:SER:HB3	9:D:9310:HOH:O	2.15	0.47
5:F:300:ASP:CG	5:F:301:ALA:N	2.73	0.47
1:K:149:GLY:O	1:K:171:PHE:HB2	2.14	0.47
9:K:5385:HOH:O	2:M:938:LYS:HE2	2.14	0.47
2:M:102:HIS:HB2	2:M:106:GLY:O	2.15	0.47
2:M:184:MET:HB2	2:M:193:LEU:HD12	1.96	0.47
2:M:374:ASN:HD21	2:M:376:ARG:HB2	1.80	0.47
2:M:397:GLU:H	2:M:633:GLN:CD	2.23	0.47
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.73	0.47
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.14	0.47
3:N:179:VAL:O	3:N:183:GLU:HB2	2.15	0.47
3:N:452:ILE:HG23	3:N:452:ILE:O	2.14	0.47
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.95	0.47
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.50	0.47
3:N:1086:LEU:N	6:N:8002:STD:H32	2.30	0.47
5:P:314:PRO:HD2	9:P:4412:HOH:O	2.15	0.47
5:P:356:LYS:HE3	9:P:5784:HOH:O	2.15	0.47
1:A:115:LEU:HD12	1:A:115:LEU:O	2.15	0.46
1:A:122:ILE:HD12	1:A:122:ILE:H	1.80	0.46
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.79	0.46
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.14	0.46
2:C:220:GLY:HA3	9:C:1151:HOH:O	2.16	0.46
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.50	0.46
2:C:701:THR:HG23	2:C:832:LYS:HA	1.97	0.46
2:C:882:LEU:HD23	2:C:885:ILE:HB	1.96	0.46
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.45	0.46
2:C:1031:ARG:HG3	2:C:1031:ARG:NH1	2.29	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.44	0.46
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.50	0.46
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.43	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.14	0.46
5:F:132:ARG:NH2	5:F:184:ARG:HH12	2.13	0.46
2:M:115:LEU:HD22	2:M:373:VAL:CG1	2.34	0.46
2:M:248:PRO:HD2	9:M:1314:HOH:O	2.14	0.46
2:M:428:ARG:NH2	2:M:451:LEU:HD11	2.31	0.46
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.50	0.46
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.46
2:M:648:ARG:HB3	9:M:1146:HOH:O	2.14	0.46
2:M:735:ARG:HB2	9:M:1788:HOH:O	2.15	0.46
2:M:780:GLU:OE2	2:M:781:LYS:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	1.98	0.46
3:N:118:LEU:HB2	9:N:9568:HOH:O	2.15	0.46
3:N:127:LEU:HD12	3:N:128:TYR:HD1	1.80	0.46
3:N:643:GLY:HA2	3:N:719:VAL:HG23	1.97	0.46
3:N:1084:THR:HA	3:N:1087:ARG:NH2	2.30	0.46
2:C:55:GLU:HG2	9:C:2078:HOH:O	2.15	0.46
2:C:229:MET:HE1	9:C:1650:HOH:O	2.15	0.46
2:C:269:LEU:HG	9:C:1623:HOH:O	2.14	0.46
2:C:815:LEU:HD21	2:C:820:ARG:O	2.15	0.46
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.98	0.46
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.14	0.46
3:D:434:ARG:HD2	9:D:2137:HOH:O	2.15	0.46
3:D:493:ARG:HH21	3:D:1388:ARG:HB3	1.78	0.46
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.40	0.46
3:D:1274:ILE:HD12	9:D:2452:HOH:O	2.15	0.46
3:D:1362:LYS:HE2	9:D:9177:HOH:O	2.14	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	2.30	0.46
3:D:1462:LEU:HD22	3:D:1472:ILE:CG2	2.44	0.46
1:L:14:ARG:HH22	1:L:24:VAL:CG2	2.29	0.46
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.96	0.46
2:M:139:GLN:HE21	2:M:334:ARG:CD	2.29	0.46
2:M:191:PHE:HE2	2:M:196:LEU:HB2	1.79	0.46
2:M:342:ASP:O	2:M:346:VAL:HG23	2.15	0.46
2:M:708:TYR:CD1	2:M:708:TYR:N	2.82	0.46
3:N:441:ARG:O	3:N:443:VAL:N	2.48	0.46
3:N:681:ARG:HA	9:N:2260:HOH:O	2.15	0.46
3:N:1065:LEU:HD11	3:N:1069:GLU:C	2.41	0.46
3:N:1128:VAL:O	3:N:1129:THR:C	2.58	0.46
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.29	0.46
1:B:23:PHE:HZ	1:B:207:PRO:HB2	1.80	0.46
2:C:3:ILE:HD13	2:C:900:ARG:O	2.16	0.46
2:C:92:ALA:HB1	9:C:1961:HOH:O	2.15	0.46
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.19	0.46
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.50	0.46
2:C:569:VAL:O	2:C:571:LEU:HD12	2.14	0.46
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.40	0.46
2:C:1119:ARG:H	3:D:23:TYR:HE2	1.64	0.46
3:D:410:SER:CB	3:D:414:ARG:HH21	2.29	0.46
3:D:537:THR:HG23	9:D:9070:HOH:O	2.14	0.46
3:D:616:GLN:HE21	3:D:619:LEU:HD13	1.80	0.46
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:75:ILE:HG22	9:F:480:HOH:O	2.14	0.46
1:K:199:ILE:HD12	1:K:199:ILE:N	2.31	0.46
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.96	0.46
1:L:30:ARG:HG3	9:L:4517:HOH:O	2.15	0.46
1:L:92:PRO:HD3	9:L:6486:HOH:O	2.16	0.46
2:M:145:GLY:H	2:M:163:ILE:HG13	1.81	0.46
2:M:285:LEU:HD12	2:M:288:ARG:O	2.15	0.46
2:M:403:SER:O	2:M:407:LYS:HG3	2.15	0.46
3:N:62:LYS:HZ1	3:N:75:ARG:HD2	1.80	0.46
3:N:546:ARG:NH2	3:N:550:ARG:HH22	2.12	0.46
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.29	0.46
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.16	0.46
5:P:323:ASP:HB3	5:P:325:LYS:NZ	2.30	0.46
2:C:6:PHE:HE2	2:C:913:GLU:HB3	1.80	0.46
2:C:244:PRO:HG2	2:C:246:ASP:CG	2.41	0.46
2:C:249:LYS:HB2	9:C:1212:HOH:O	2.14	0.46
2:C:313:LEU:CB	2:C:321:GLU:HG3	2.46	0.46
2:C:564:MET:HE2	2:C:846:LYS:HE2	1.97	0.46
2:C:745:ILE:HG21	9:C:1837:HOH:O	2.15	0.46
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.96	0.46
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.44	0.46
2:C:1090:LYS:HZ2	3:D:90:MET:HG3	1.80	0.46
3:D:77:GLY:O	3:D:78:VAL:HG23	2.15	0.46
3:D:116:LEU:HB3	3:D:118:LEU:CD2	2.45	0.46
3:D:572:ARG:HB3	9:F:507:HOH:O	2.16	0.46
3:D:980:MET:HB3	3:D:982:PHE:CE1	2.51	0.46
3:D:1237:THR:HG22	3:D:1238:MET:N	2.30	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.43	0.46
1:K:4:SER:HB3	9:K:5976:HOH:O	2.16	0.46
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.96	0.46
1:L:1:MET:HG2	9:L:4365:HOH:O	2.15	0.46
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.97	0.46
2:M:713:ARG:O	2:M:720:GLU:HG3	2.15	0.46
2:M:719:PRO:HD3	9:M:1441:HOH:O	2.14	0.46
3:N:420:VAL:HG13	5:P:164:LYS:HD3	1.98	0.46
3:N:543:LEU:O	3:N:546:ARG:HB2	2.15	0.46
3:N:615:ARG:HD2	9:N:9404:HOH:O	2.14	0.46
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.31	0.46
3:N:1269:LYS:C	3:N:1269:LYS:HD3	2.40	0.46
3:N:1336:LEU:HD23	9:N:9785:HOH:O	2.15	0.46
9:N:9220:HOH:O	5:P:140:ARG:HB2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:SER:HB3	2:C:856:GLU:CG	2.43	0.46
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.50	0.46
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.96	0.46
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.51	0.46
2:C:525:SER:O	2:C:529:VAL:HG23	2.15	0.46
3:D:20:SER:HA	9:D:9314:HOH:O	2.15	0.46
3:D:493:ARG:HA	9:D:9266:HOH:O	2.14	0.46
3:D:567:ILE:HG22	3:D:571:LYS:HZ2	1.81	0.46
3:D:576:GLU:C	3:D:576:GLU:CD	2.84	0.46
3:D:596:SER:OG	3:D:598:ARG:HB3	2.15	0.46
3:D:862:ASP:O	3:D:877:PRO:HD3	2.15	0.46
3:D:890:VAL:HA	9:D:9275:HOH:O	2.16	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.30	0.46
3:D:1278:ASP:HB2	3:D:1318:TYR:CE1	2.49	0.46
4:E:27:ALA:O	4:E:31:LEU:HG	2.16	0.46
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.97	0.46
2:M:165:LEU:HA	2:M:166:PRO:O	2.16	0.46
2:M:210:GLU:HA	9:M:1714:HOH:O	2.15	0.46
2:M:285:LEU:HB3	9:M:1964:HOH:O	2.15	0.46
2:M:721:ARG:HE	2:M:783:ARG:NH2	2.13	0.46
2:M:848:VAL:HB	3:N:740:PHE:O	2.15	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.45	0.46
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.96	0.46
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.97	0.46
3:N:543:LEU:CD2	3:N:600:LEU:HD12	2.44	0.46
3:N:879:ARG:HD2	9:N:9192:HOH:O	2.14	0.46
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.98	0.46
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.30	0.46
5:P:168:LYS:HE2	5:P:168:LYS:HA	1.98	0.46
5:P:395:GLU:HB2	9:P:5193:HOH:O	2.15	0.46
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.14	0.46
1:A:65:PHE:HE1	2:C:799:ILE:HG12	1.80	0.46
9:A:334:HOH:O	2:C:980:GLY:HA2	2.15	0.46
1:B:160:ASP:HA	9:B:464:HOH:O	2.16	0.46
2:C:30:LEU:HD12	2:C:30:LEU:O	2.15	0.46
2:C:120:LEU:HB2	9:C:1338:HOH:O	2.14	0.46
2:C:305:PRO:CB	2:C:308:ARG:HH21	2.19	0.46
2:C:520:GLU:O	2:C:522:VAL:HG23	2.16	0.46
2:C:668:LEU:HD12	2:C:668:LEU:H	1.79	0.46
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.80	0.46
2:C:1103:ASP:N	2:C:1107:ASN:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:178:LEU:HD21	3:D:199:LEU:H	1.81	0.46
3:D:465:LEU:HD12	3:D:513:ILE:HD11	1.97	0.46
3:D:581:LEU:HD12	3:D:582:LEU:N	2.31	0.46
3:D:845:ASN:CB	9:D:2535:HOH:O	2.63	0.46
3:D:1118:ILE:HD11	9:D:2295:HOH:O	2.16	0.46
3:D:1177:ALA:HB3	3:D:1183:ILE:HD11	1.98	0.46
3:D:1211:MET:HG2	3:D:1213:ARG:HG2	1.98	0.46
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.15	0.46
5:F:321:ILE:HG12	5:F:327:SER:O	2.16	0.46
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.98	0.46
1:L:26:GLU:CD	1:L:194:LYS:HE3	2.40	0.46
2:M:123:GLU:HB3	9:M:1677:HOH:O	2.16	0.46
2:M:166:PRO:HD3	2:M:265:ARG:CB	2.46	0.46
2:M:172:ILE:N	2:M:172:ILE:HD12	2.31	0.46
2:M:286:SER:OG	2:M:299:LYS:HE3	2.16	0.46
2:M:310:LEU:O	2:M:314:THR:HG23	2.16	0.46
2:M:955:PRO:HA	9:M:1371:HOH:O	2.16	0.46
3:N:42:ASP:O	3:N:46:ASP:HB2	2.16	0.46
3:N:493:ARG:NH1	3:N:1390:LEU:HB2	2.31	0.46
3:N:1140:ILE:HG21	3:N:1175:ILE:HD11	1.98	0.46
3:N:1189:ARG:NH1	3:N:1201:CYS:SG	2.88	0.46
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.46	0.46
3:N:1476:THR:C	3:N:1478:SER:H	2.24	0.46
4:O:8:LYS:HB3	9:O:4335:HOH:O	2.15	0.46
5:P:218:GLN:HA	5:P:221:ILE:HD12	1.96	0.46
1:A:227:ASN:ND2	1:A:227:ASN:H	2.14	0.46
2:C:55:GLU:HG3	9:C:1573:HOH:O	2.16	0.46
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.96	0.46
2:C:166:PRO:HB2	9:C:1593:HOH:O	2.14	0.46
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.46	0.46
3:D:592:THR:N	3:D:600:LEU:HD21	2.31	0.46
3:D:692:GLU:HG2	3:D:720:LEU:HD22	1.97	0.46
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.51	0.46
3:D:906:GLN:NE2	3:D:910:SER:HB2	2.31	0.46
3:D:974:ILE:HD11	9:D:9959:HOH:O	2.15	0.46
3:D:984:THR:CG2	3:D:987:GLU:H	2.28	0.46
3:D:1103:HIS:HD2	3:D:1462:LEU:N	2.13	0.46
3:D:1342:GLU:HG2	9:D:9397:HOH:O	2.16	0.46
4:E:45:ARG:H	4:E:45:ARG:HD2	1.81	0.46
4:E:84:ARG:HA	4:E:84:ARG:HH11	1.79	0.46
5:F:141:VAL:HA	9:F:544:HOH:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:215:GLU:O	5:F:218:GLN:HB3	2.15	0.46
1:K:25:LEU:HD23	1:K:25:LEU:O	2.15	0.46
1:L:30:ARG:NH1	1:L:30:ARG:HG2	2.30	0.46
1:L:89:PHE:CB	1:L:94:LEU:HD13	2.41	0.46
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.44	0.46
2:M:108:ILE:HG23	9:M:1259:HOH:O	2.16	0.46
2:M:144:PRO:HA	2:M:163:ILE:CD1	2.46	0.46
2:M:589:ARG:HD2	9:M:1387:HOH:O	2.15	0.46
2:M:829:GLN:HG2	2:M:831:ARG:HE	1.81	0.46
2:M:928:LYS:HB2	9:M:1588:HOH:O	2.16	0.46
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.97	0.46
2:M:1100:GLN:HG3	2:M:1101:THR:O	2.15	0.46
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.44	0.46
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.15	0.46
4:O:94:PRO:HB2	9:O:4661:HOH:O	2.16	0.46
1:B:110:LYS:HB2	1:B:110:LYS:NZ	2.31	0.46
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.30	0.46
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.97	0.46
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.31	0.46
2:C:1086:ARG:HB3	2:C:1112:PHE:CE2	2.50	0.46
3:D:154:THR:HA	9:D:9028:HOH:O	2.15	0.46
3:D:161:LEU:CD1	3:D:452:ILE:HD12	2.45	0.46
3:D:428:LYS:HD3	3:D:451:ASP:OD1	2.16	0.46
3:D:646:LYS:NZ	3:D:688:TRP:HE1	2.13	0.46
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.80	0.46
3:D:669:ASN:O	3:D:672:ALA:HB3	2.15	0.46
3:D:998:GLU:HG2	9:D:9130:HOH:O	2.15	0.46
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.97	0.46
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.16	0.46
3:D:1447:LEU:O	3:D:1448:THR:C	2.59	0.46
5:F:363:GLU:CA	5:F:367:MET:HG2	2.46	0.46
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.97	0.46
1:L:19:GLU:O	1:L:200:TRP:HA	2.16	0.46
1:L:30:ARG:HG2	1:L:30:ARG:HH11	1.81	0.46
2:M:107:LEU:HG	9:M:1695:HOH:O	2.16	0.46
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.46	0.46
2:M:409:ARG:NE	9:M:1130:HOH:O	2.48	0.46
2:M:432:ARG:NH1	3:N:1048:PRO:HG2	2.29	0.46
3:N:131:LYS:HG2	3:N:568:ARG:CG	2.21	0.46
3:N:404:GLU:HA	9:N:2182:HOH:O	2.16	0.46
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:785:ILE:H	3:N:785:ILE:HD12	1.81	0.46
3:N:950:GLY:C	3:N:953:ASP:H	2.22	0.46
3:N:1267:ARG:HH22	3:N:1331:ASP:HB3	1.80	0.46
3:N:1444:THR:HG21	9:N:9794:HOH:O	2.16	0.46
5:P:151:LEU:CD2	5:P:153:PRO:HD2	2.45	0.46
1:A:72:LYS:HA	2:C:608:GLY:N	2.30	0.46
1:B:146:ARG:HB2	9:B:513:HOH:O	2.15	0.46
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.46	0.46
2:C:182:VAL:HG11	2:C:193:LEU:HD22	1.97	0.46
2:C:267:TYR:HD1	9:C:1271:HOH:O	1.98	0.46
2:C:626:ARG:N	2:C:639:GLN:HE21	2.13	0.46
2:C:808:ARG:HG2	2:C:808:ARG:HH11	1.81	0.46
2:C:882:LEU:HD22	3:D:951:ILE:HG12	1.98	0.46
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.58	0.46
3:D:56:TYR:HE2	3:D:69:GLU:HB2	1.79	0.46
3:D:572:ARG:NH2	5:F:83:GLN:NE2	2.59	0.46
3:D:608:SER:OG	3:D:609:GLY:N	2.49	0.46
3:D:805:GLU:OE1	3:D:805:GLU:O	2.34	0.46
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.16	0.46
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.16	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.50	0.46
5:F:164:LYS:HG2	5:F:171:LYS:NZ	2.31	0.46
5:F:179:GLU:HG3	9:F:536:HOH:O	2.16	0.46
1:L:9:PRO:HD2	1:L:224:TYR:CE1	2.51	0.46
1:K:162:ILE:HG13	1:K:163:ASN:OD1	2.16	0.46
2:M:140:ILE:O	2:M:418:LEU:HD23	2.16	0.46
2:M:141:HIS:HB3	2:M:418:LEU:CG	2.46	0.46
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.98	0.46
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.79	0.46
2:M:273:GLY:HA2	2:M:276:LYS:NZ	2.31	0.46
2:M:352:ALA:C	2:M:355:VAL:HG12	2.41	0.46
3:N:34:TYR:HA	9:N:9522:HOH:O	2.16	0.46
3:N:568:ARG:O	3:N:569:ASN:C	2.59	0.46
3:N:671:LYS:HE2	3:N:674:ARG:HH21	1.81	0.46
3:N:806:PHE:O	3:N:807:ALA:C	2.58	0.46
5:P:286:PRO:HD2	9:P:5418:HOH:O	2.15	0.46
2:C:75:GLU:HG3	9:C:1495:HOH:O	2.15	0.46
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.46
2:C:367:LEU:HA	2:C:371:LYS:HD3	1.98	0.46
2:C:892:LEU:HD12	2:C:892:LEU:O	2.16	0.46
2:C:896:PHE:O	2:C:924:VAL:HG11	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:944:LEU:HD11	2:C:963:LEU:CD2	2.45	0.46
2:C:1053:LEU:HD12	9:D:9467:HOH:O	2.15	0.46
2:C:1105:LYS:HE3	9:C:1173:HOH:O	2.15	0.46
3:D:131:LYS:O	3:D:456:MET:HE3	2.16	0.46
3:D:132:TYR:HA	9:D:9028:HOH:O	2.16	0.46
3:D:133:ILE:HG22	3:D:455:ARG:N	2.30	0.46
3:D:379:ALA:HB3	9:D:9248:HOH:O	2.15	0.46
3:D:768:ASN:N	3:D:768:ASN:ND2	2.63	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.46	0.46
3:D:969:ARG:HD2	9:D:9782:HOH:O	2.15	0.46
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.15	0.46
5:F:233:PHE:HE1	9:F:456:HOH:O	1.99	0.46
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.51	0.46
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.96	0.46
3:N:629:SER:OG	3:N:630:VAL:N	2.47	0.46
3:N:671:LYS:HA	3:N:674:ARG:HE	1.81	0.46
3:N:734:GLU:OE1	3:N:782:SER:HB2	2.15	0.46
3:N:1209:LEU:HD13	3:N:1211:MET:SD	2.56	0.46
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.31	0.46
3:N:1481:VAL:O	3:N:1481:VAL:HG12	2.16	0.46
4:O:13:VAL:HG12	4:O:75:PHE:CE1	2.51	0.46
4:O:62:THR:HG21	9:O:5845:HOH:O	2.15	0.46
5:P:358:LEU:O	5:P:367:MET:HE1	2.16	0.46
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.98	0.45
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.45
1:A:85:LEU:HD12	1:A:124:ASN:HB3	1.97	0.45
1:B:16:GLN:HA	9:B:370:HOH:O	2.16	0.45
1:B:91:ASN:OD1	1:B:93:SER:HB2	2.16	0.45
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.98	0.45
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.97	0.45
2:C:422:ARG:H	2:C:422:ARG:HG2	1.41	0.45
2:C:437:ARG:C	2:C:438:ILE:HD12	2.42	0.45
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.47	0.45
2:C:1067:TYR:HE1	3:D:655:PRO:HG3	1.80	0.45
3:D:39:PRO:HG2	3:D:47:GLU:OE2	2.15	0.45
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.97	0.45
3:D:549:ASN:HB3	9:D:9108:HOH:O	2.15	0.45
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.32	0.45
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.46	0.45
1:L:2:LEU:HD13	1:L:3:ASP:CG	2.40	0.45
2:M:52:PHE:O	2:M:54:ILE:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:141:HIS:HB3	2:M:418:LEU:CD2	2.47	0.45
2:M:893:ALA:O	2:M:897:LEU:HB2	2.16	0.45
3:N:7:LYS:HD3	3:N:1456:LYS:NZ	2.31	0.45
3:N:666:ILE:HG22	3:N:684:LYS:HD3	1.99	0.45
3:N:792:ILE:O	3:N:878:GLY:HA3	2.16	0.45
3:N:994:GLN:HE21	3:N:994:GLN:CA	2.28	0.45
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.98	0.45
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.16	0.45
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.81	0.45
3:N:1503:VAL:HG11	9:N:9426:HOH:O	2.16	0.45
4:O:64:ALA:HA	4:O:67:GLU:OE1	2.16	0.45
4:O:84:ARG:HB2	4:O:84:ARG:CZ	2.46	0.45
5:P:84:TYR:HB2	9:P:5610:HOH:O	2.16	0.45
1:A:170:VAL:HG12	9:A:359:HOH:O	2.14	0.45
2:C:54:ILE:HG12	2:C:56:GLU:HG2	1.98	0.45
2:C:690:ILE:CG1	2:C:694:LEU:HD12	2.47	0.45
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.45
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.98	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	2.00	0.45
3:D:389:GLU:O	3:D:389:GLU:HG2	2.16	0.45
3:D:413:ASP:HA	9:D:9536:HOH:O	2.15	0.45
3:D:545:ARG:CZ	5:F:257:THR:HA	2.46	0.45
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.45
3:D:850:LEU:CD2	3:D:881:LEU:HD13	2.46	0.45
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	2.17	0.45
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.16	0.45
3:D:1432:LYS:CG	3:D:1433:SER:H	2.29	0.45
5:F:360:LYS:HD2	9:F:461:HOH:O	2.15	0.45
1:L:223:THR:HG21	9:L:4720:HOH:O	2.15	0.45
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.30	0.45
2:M:337:GLY:HA3	9:M:1269:HOH:O	2.16	0.45
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.45
2:M:400:PRO:O	2:M:401:LEU:C	2.59	0.45
2:M:448:ASN:ND2	9:M:1423:HOH:O	2.48	0.45
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.98	0.45
3:N:116:LEU:HD21	3:N:464:LEU:HB3	1.98	0.45
3:N:1045:MET:N	9:N:2112:HOH:O	2.50	0.45
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.46	0.45
3:N:1346:ARG:HD2	9:N:9115:HOH:O	2.15	0.45
5:P:109:GLY:O	5:P:112:ALA:HB3	2.15	0.45
5:P:409:LYS:HE3	5:P:410:TYR:HD1	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:PHE:HE2	1:B:43:ILE:CD1	2.29	0.45
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.99	0.45
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.82	0.45
2:C:114:PHE:H	2:C:114:PHE:HD1	1.64	0.45
2:C:236:ILE:O	2:C:239:PHE:HB2	2.16	0.45
2:C:302:VAL:C	2:C:305:PRO:HD2	2.42	0.45
2:C:428:ARG:HG3	2:C:428:ARG:HH11	1.81	0.45
2:C:515:ALA:C	2:C:516:ARG:HG2	2.42	0.45
2:C:831:ARG:HG2	2:C:831:ARG:NH1	2.31	0.45
2:C:841:ASN:HD22	2:C:843:HIS:N	2.08	0.45
2:C:910:LYS:HB2	2:C:913:GLU:OE1	2.17	0.45
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.97	0.45
3:D:1065:LEU:CD1	3:D:1069:GLU:HB2	2.46	0.45
3:D:1192:LEU:CD2	3:D:1345:GLU:HG2	2.45	0.45
3:D:1392:GLY:N	9:D:9363:HOH:O	2.49	0.45
4:E:69:LEU:HD11	9:E:171:HOH:O	2.16	0.45
5:F:184:ARG:HE	5:F:188:ILE:HD11	1.81	0.45
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.46	0.45
2:M:621:VAL:HG13	9:M:1139:HOH:O	2.15	0.45
2:M:627:ARG:HA	9:M:1134:HOH:O	2.16	0.45
2:M:652:GLY:HA2	9:M:1715:HOH:O	2.16	0.45
3:N:191:LEU:HD23	3:N:191:LEU:HA	1.73	0.45
3:N:860:LEU:HD13	3:N:861:GLN:HE22	1.81	0.45
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.30	0.45
3:N:1112:CYS:HA	9:N:9059:HOH:O	2.16	0.45
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.16	0.45
5:P:321:ILE:HG13	5:P:329:TYR:HA	1.98	0.45
1:B:28:LEU:O	1:B:192:LEU:HD23	2.16	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
1:B:187:GLY:HA3	9:B:450:HOH:O	2.17	0.45
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.98	0.45
2:C:328:LEU:C	2:C:330:ASN:H	2.24	0.45
2:C:630:ARG:NH2	2:C:706:GLU:C	2.74	0.45
2:C:767:PRO:HA	9:C:1291:HOH:O	2.17	0.45
2:C:793:PRO:O	2:C:794:PRO:C	2.60	0.45
2:C:833:LEU:HD12	2:C:834:GLN:N	2.30	0.45
2:C:1097:LEU:HD12	3:D:10:ILE:CG2	2.47	0.45
3:D:213:VAL:HG22	3:D:214:GLU:H	1.81	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.30	0.45
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:117:SER:HB3	5:F:122:LEU:O	2.16	0.45
5:F:192:LEU:O	5:F:196:VAL:HG23	2.16	0.45
5:F:399:GLN:HG2	9:F:793:HOH:O	2.15	0.45
1:K:86:VAL:HA	9:K:4248:HOH:O	2.17	0.45
1:K:181:VAL:O	2:M:938:LYS:HD3	2.16	0.45
2:M:685:GLU:CG	3:N:739:ASP:HB2	2.30	0.45
2:M:814:GLU:HG3	2:M:814:GLU:O	2.17	0.45
2:M:1105:LYS:O	2:M:1107:ASN:N	2.49	0.45
3:N:16:GLU:HA	9:N:9730:HOH:O	2.16	0.45
3:N:495:ARG:O	3:N:499:VAL:HG23	2.16	0.45
3:N:675:ARG:O	3:N:678:GLU:HG2	2.17	0.45
3:N:734:GLU:HB2	9:N:9019:HOH:O	2.16	0.45
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.16	0.45
3:N:984:THR:HB	3:N:987:GLU:OE2	2.17	0.45
3:N:1059:SER:HA	9:N:9590:HOH:O	2.17	0.45
4:O:26:ARG:NH1	4:O:29:GLN:NE2	2.64	0.45
2:C:175:GLU:HB3	2:C:183:SER:OG	2.16	0.45
2:C:282:GLY:H	2:C:308:ARG:NH2	2.13	0.45
2:C:309:TYR:HE2	2:C:321:GLU:HB3	1.81	0.45
2:C:669:GLY:C	2:C:670:GLN:HG2	2.41	0.45
3:D:491:LYS:HD3	3:D:492:ALA:N	2.31	0.45
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.46	0.45
3:D:682:ASP:OD1	3:D:682:ASP:N	2.49	0.45
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.16	0.45
3:D:1496:GLU:OE1	3:D:1500:LYS:HE3	2.16	0.45
5:F:126:LEU:O	5:F:130:VAL:HG23	2.17	0.45
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.17	0.45
5:F:401:GLU:HG3	5:F:405:LEU:HD22	1.98	0.45
1:K:61:VAL:HG21	1:K:68:ILE:HD11	1.98	0.45
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.42	0.45
2:M:171:TRP:HB2	9:M:1883:HOH:O	2.17	0.45
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.51	0.45
2:M:1118:LYS:HD3	3:N:20:SER:O	2.16	0.45
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.47	0.45
3:N:560:GLN:O	5:P:184:ARG:NH2	2.47	0.45
3:N:673:ALA:O	3:N:677:LEU:HG	2.17	0.45
3:N:696:HIS:HB2	4:O:48:MET:CE	2.47	0.45
3:N:1235:GLN:O	3:N:1237:THR:N	2.50	0.45
5:P:168:LYS:H	5:P:168:LYS:HG2	1.46	0.45
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.47	0.45
2:C:27:ARG:HA	9:C:1366:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.99	0.45
2:C:575:GLN:O	2:C:667:ALA:HB1	2.17	0.45
2:C:584:GLU:CD	2:C:584:GLU:H	2.23	0.45
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.98	0.45
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.82	0.45
2:C:778:PHE:HZ	5:F:409:LYS:HB2	1.79	0.45
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.98	0.45
2:C:890:LEU:HA	2:C:914:ILE:CD1	2.35	0.45
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.99	0.45
2:C:956:GLY:HA2	9:C:1808:HOH:O	2.17	0.45
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.17	0.45
3:D:72:VAL:HG23	3:D:78:VAL:H	1.81	0.45
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.99	0.45
3:D:704:ARG:HE	3:D:705:ALA:N	2.11	0.45
3:D:813:LEU:O	3:D:839:LEU:HD11	2.16	0.45
3:D:820:GLU:HA	3:D:825:ALA:O	2.16	0.45
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.98	0.45
3:D:872:ARG:HB3	9:D:9461:HOH:O	2.16	0.45
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.81	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.31	0.45
5:F:85:LEU:HB2	9:F:440:HOH:O	2.16	0.45
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.16	0.45
5:F:292:ALA:HA	5:F:299:TRP:HB3	1.99	0.45
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.31	0.45
1:L:145:ASP:O	1:L:171:PHE:HE1	2.00	0.45
2:M:89:THR:HG23	2:M:91:GLN:NE2	2.31	0.45
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.46	0.45
2:M:274:ARG:HG3	2:M:285:LEU:HD13	1.98	0.45
2:M:300:ASP:HA	9:M:1823:HOH:O	2.15	0.45
2:M:342:ASP:O	2:M:345:ARG:HG3	2.16	0.45
2:M:601:GLY:HA2	2:M:616:GLU:CD	2.42	0.45
2:M:1006:HIS:ND1	2:M:1006:HIS:N	2.64	0.45
3:N:653:PHE:CD1	3:N:695:ILE:HD11	2.51	0.45
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.29	0.45
3:N:950:GLY:H	3:N:953:ASP:CB	2.29	0.45
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.16	0.45
5:P:287:THR:N	5:P:290:GLU:OE1	2.49	0.45
5:P:396:ARG:HG2	9:P:3845:HOH:O	2.17	0.45
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.45
1:B:65:PHE:HE1	3:D:806:PHE:HZ	1.64	0.45
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.43	0.45
2:C:183:SER:HB3	9:C:1141:HOH:O	2.15	0.45
2:C:195:LEU:HB3	9:C:1703:HOH:O	2.15	0.45
2:C:267:TYR:HD2	2:C:267:TYR:N	2.15	0.45
2:C:342:ASP:O	2:C:345:ARG:HG2	2.17	0.45
2:C:397:GLU:H	2:C:633:GLN:CD	2.25	0.45
2:C:423:ALA:CB	2:C:428:ARG:HH22	2.29	0.45
2:C:744:ARG:HD3	9:C:1611:HOH:O	2.16	0.45
3:D:777:PRO:HG2	3:D:915:VAL:HB	1.99	0.45
3:D:790:TYR:CZ	3:D:905:PRO:HB2	2.52	0.45
3:D:799:LYS:HE2	3:D:801:GLY:HA3	1.99	0.45
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.47	0.45
3:D:1203:LYS:HE3	9:D:9590:HOH:O	2.16	0.45
3:D:1314:LYS:H	3:D:1314:LYS:HD3	1.82	0.45
3:D:1350:GLU:HG3	9:D:9098:HOH:O	2.16	0.45
3:D:1377:LYS:NZ	9:D:9064:HOH:O	2.50	0.45
5:F:148:LYS:HD3	9:F:504:HOH:O	2.16	0.45
5:F:166:LEU:HD22	5:F:170:HIS:CB	2.46	0.45
1:K:220:GLU:HG2	9:K:5302:HOH:O	2.16	0.45
1:L:183:ASP:HB3	9:L:6719:HOH:O	2.16	0.45
1:L:206:THR:CG2	1:L:209:GLU:H	2.23	0.45
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.44	0.45
2:M:603:VAL:H	2:M:647:GLN:H	1.65	0.45
2:M:865:THR:C	9:M:1390:HOH:O	2.60	0.45
2:M:902:ILE:O	2:M:904:PRO:HD3	2.17	0.45
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.47	0.45
3:N:397:LYS:HE3	9:N:9553:HOH:O	2.14	0.45
3:N:480:GLU:O	3:N:484:PRO:HD2	2.17	0.45
3:N:484:PRO:HB2	9:N:9818:HOH:O	2.15	0.45
3:N:553:ARG:HD2	3:N:570:GLU:CD	2.42	0.45
3:N:594:PRO:HA	9:N:9546:HOH:O	2.16	0.45
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.47	0.45
3:N:868:TYR:HB2	3:N:873:LEU:HD12	1.97	0.45
3:N:1047:LYS:HD2	3:N:1051:GLU:OE2	2.17	0.45
5:P:416:ARG:HD3	5:P:419:ARG:HB3	1.98	0.45
1:A:138:LEU:HD12	1:A:138:LEU:HA	1.86	0.45
1:A:191:ASP:O	1:A:191:ASP:CG	2.60	0.45
1:B:89:PHE:CD1	1:B:89:PHE:N	2.85	0.45
1:B:90:LEU:HD22	9:B:320:HOH:O	2.16	0.45
2:C:191:PHE:CZ	2:C:196:LEU:HD12	2.51	0.45
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:313:LEU:HD12	9:C:1484:HOH:O	2.16	0.45
3:D:114:THR:O	3:D:495:ARG:HG3	2.17	0.45
3:D:210:ARG:HG3	3:D:398:ALA:N	2.30	0.45
3:D:451:ASP:HB3	9:D:2046:HOH:O	2.17	0.45
3:D:1442:ASN:O	3:D:1446:VAL:HG23	2.17	0.45
5:F:289:GLU:HG2	9:F:680:HOH:O	2.17	0.45
5:F:313:GLU:HB3	9:F:481:HOH:O	2.17	0.45
2:M:129:ILE:HD13	2:M:386:PHE:O	2.17	0.45
2:M:197:LEU:HD22	2:M:202:TYR:CD2	2.51	0.45
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.45
2:M:690:ILE:HG12	2:M:691:SER:N	2.32	0.45
2:M:802:ARG:HG3	9:M:1172:HOH:O	2.16	0.45
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.98	0.45
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.98	0.45
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.97	0.45
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.99	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.99	0.45
3:N:640:HIS:HB3	9:N:9110:HOH:O	2.17	0.45
3:N:769:LEU:HB2	3:N:919:PHE:HE1	1.81	0.45
3:N:806:PHE:O	3:N:806:PHE:CG	2.70	0.45
3:N:1101:VAL:CG1	3:N:1428:ALA:HB2	2.46	0.45
3:N:1209:LEU:CD1	3:N:1216:SER:HB2	2.47	0.45
3:N:1365:ASP:O	3:N:1368:ILE:HG13	2.16	0.45
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.30	0.45
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.98	0.45
1:B:159:LYS:HD3	1:B:159:LYS:N	2.32	0.45
2:C:64:LEU:HD22	2:C:359:MET:CG	2.41	0.45
2:C:216:GLU:HB2	9:C:1669:HOH:O	2.15	0.45
2:C:275:TYR:CD2	2:C:276:LYS:HG3	2.52	0.45
2:C:307:LEU:HG	2:C:311:PHE:CZ	2.52	0.45
2:C:367:LEU:HB3	9:C:1983:HOH:O	2.16	0.45
2:C:798:GLY:H	2:C:827:VAL:CG1	2.30	0.45
3:D:860:LEU:HD23	3:D:877:PRO:CB	2.46	0.45
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.99	0.45
1:L:212:ASN:O	1:L:215:VAL:HG22	2.16	0.45
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.46	0.45
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.50	0.45
3:N:378:ILE:HA	9:N:2123:HOH:O	2.16	0.45
3:N:1389:LEU:CD1	3:N:1390:LEU:HD23	2.47	0.45
3:N:1397:LYS:HB2	9:N:9957:HOH:O	2.17	0.45
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:C	1:B:28:LEU:HD23	2.41	0.45
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.47	0.45
2:C:602:GLU:HA	2:C:647:GLN:O	2.17	0.45
2:C:893:ALA:O	2:C:897:LEU:HB2	2.16	0.45
2:C:1020:PRO:HD2	2:C:1057:SER:OG	2.17	0.45
2:C:1032:PHE:HE2	2:C:1037:VAL:HA	1.81	0.45
2:C:1091:GLU:HG2	3:D:606:ILE:CG2	2.47	0.45
3:D:191:LEU:HD11	9:D:9494:HOH:O	2.17	0.45
3:D:393:ILE:HG22	9:D:9389:HOH:O	2.16	0.45
3:D:729:HIS:ND1	3:D:730:PRO:N	2.64	0.45
3:D:759:ALA:CA	3:D:763:MET:HE2	2.42	0.45
3:D:774:SER:C	3:D:776:GLU:N	2.75	0.45
3:D:819:GLY:HA3	9:D:9206:HOH:O	2.17	0.45
3:D:1099:VAL:HG13	3:D:1223:ILE:CD1	2.46	0.45
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.82	0.45
3:D:1476:THR:HA	9:E:104:HOH:O	2.17	0.45
4:E:60:ALA:HB3	9:E:111:HOH:O	2.17	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.17	0.45
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.99	0.45
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.17	0.45
2:M:312:ALA:HB2	9:M:1641:HOH:O	2.17	0.45
2:M:463:GLU:C	9:M:1132:HOH:O	2.59	0.45
2:M:472:ARG:HD2	2:M:480:THR:O	2.17	0.45
3:N:47:GLU:OE1	3:N:53:ILE:HG22	2.17	0.45
3:N:508:ARG:HG3	9:N:9392:HOH:O	2.17	0.45
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.99	0.45
3:N:571:LYS:HB2	3:N:571:LYS:HZ2	1.82	0.45
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.99	0.45
3:N:669:ASN:O	3:N:672:ALA:HB3	2.16	0.45
3:N:704:ARG:HD2	3:N:705:ALA:N	2.23	0.45
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.52	0.44
2:C:19:THR:O	2:C:23:VAL:HG23	2.16	0.44
2:C:773:LEU:N	9:C:1403:HOH:O	2.50	0.44
2:C:818:GLY:N	9:C:2148:HOH:O	2.49	0.44
2:C:871:LEU:HD12	2:C:992:MET:HE1	1.99	0.44
2:C:1078:GLU:HG3	9:C:2012:HOH:O	2.16	0.44
3:D:121:THR:HG23	9:D:9102:HOH:O	2.16	0.44
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.43	0.44
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.27	0.44
3:D:1487:VAL:HG12	4:E:74:VAL:HB	1.99	0.44
5:F:153:PRO:CG	5:F:154:LYS:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:288:TYR:HB2	9:F:819:HOH:O	2.17	0.44
1:L:75:VAL:O	1:L:79:ILE:HG23	2.17	0.44
1:L:81:ASN:O	1:L:84:GLU:HB3	2.16	0.44
1:L:185:ARG:HA	9:L:4092:HOH:O	2.16	0.44
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.16	0.44
2:M:77:PRO:HD3	2:M:93:PRO:HG3	1.97	0.44
2:M:86:LYS:HG2	2:M:813:VAL:HG12	1.99	0.44
2:M:172:ILE:HD12	2:M:172:ILE:H	1.82	0.44
2:M:176:VAL:O	2:M:178:PRO:HD3	2.16	0.44
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.99	0.44
2:M:877:PRO:HB3	3:N:1020:LEU:HD12	1.99	0.44
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.82	0.44
2:M:1088:LEU:HD12	9:N:9389:HOH:O	2.17	0.44
3:N:28:LYS:O	3:N:43:GLY:HA2	2.17	0.44
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.32	0.44
3:N:493:ARG:O	3:N:497:GLU:HG3	2.17	0.44
3:N:804:LEU:HD12	3:N:804:LEU:O	2.17	0.44
3:N:1171:VAL:O	3:N:1171:VAL:HG12	2.17	0.44
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.17	0.44
3:N:1403:LEU:HD23	3:N:1407:LEU:CD2	2.46	0.44
3:N:1431:THR:OG1	3:N:1432:LYS:N	2.51	0.44
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.99	0.44
4:O:89:MET:HG3	9:O:5639:HOH:O	2.16	0.44
5:P:142:ARG:HA	9:P:3722:HOH:O	2.17	0.44
5:P:321:ILE:O	5:P:327:SER:HB3	2.17	0.44
5:P:357:ALA:HB2	9:P:3982:HOH:O	2.17	0.44
2:C:73:LEU:N	2:C:73:LEU:HD23	2.32	0.44
2:C:150:PRO:HB2	9:C:2194:HOH:O	2.18	0.44
2:C:226:VAL:HG12	9:C:1509:HOH:O	2.16	0.44
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.44
2:C:385:PHE:O	2:C:389:SER:HB3	2.17	0.44
2:C:486:MET:HG2	2:C:487:THR:O	2.16	0.44
2:C:761:PHE:N	2:C:761:PHE:CD1	2.85	0.44
2:C:841:ASN:ND2	2:C:843:HIS:HB2	2.32	0.44
3:D:161:LEU:CD2	3:D:452:ILE:HG21	2.46	0.44
3:D:510:GLU:HG3	9:D:9443:HOH:O	2.17	0.44
3:D:671:LYS:N	9:D:9017:HOH:O	2.50	0.44
3:D:939:PHE:O	3:D:943:THR:HG23	2.17	0.44
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.52	0.44
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.18	0.44
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1343:ALA:HA	9:D:9548:HOH:O	2.17	0.44
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.17	0.44
3:D:1476:THR:HG23	4:E:21:VAL:HG22	2.00	0.44
3:D:1481:VAL:HG13	4:E:18:ARG:HE	1.82	0.44
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.74	0.44
5:F:369:LEU:HD22	9:F:840:HOH:O	2.18	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HA	2.47	0.44
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.33	0.44
2:M:384:GLU:CD	2:M:388:ARG:HH21	2.25	0.44
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.57	0.44
2:M:1102:LEU:N	3:N:7:LYS:O	2.49	0.44
3:N:57:GLU:HG2	3:N:58:CYS:O	2.18	0.44
3:N:431:VAL:HA	9:N:9353:HOH:O	2.16	0.44
3:N:585:GLY:HA3	9:N:9488:HOH:O	2.17	0.44
3:N:774:SER:OG	3:N:776:GLU:HB2	2.18	0.44
3:N:813:LEU:HD12	3:N:814:ALA:N	2.31	0.44
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	1.99	0.44
3:N:1298:GLY:HA3	9:N:9525:HOH:O	2.17	0.44
9:N:9147:HOH:O	5:P:254:GLN:HA	2.17	0.44
5:P:133:ALA:HB1	9:P:3678:HOH:O	2.17	0.44
5:P:249:ARG:HG3	5:P:253:ASP:OD1	2.17	0.44
1:A:159:LYS:HE3	9:A:341:HOH:O	2.18	0.44
2:C:442:GLU:HG2	2:C:454:SER:OG	2.17	0.44
2:C:648:ARG:HG2	9:C:1175:HOH:O	2.16	0.44
2:C:668:LEU:O	2:C:993:PHE:CZ	2.71	0.44
2:C:862:PRO:HG3	2:C:975:TYR:CE1	2.48	0.44
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.98	0.44
3:D:39:PRO:HB2	9:D:2416:HOH:O	2.17	0.44
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.17	0.44
3:D:521:PRO:C	3:D:525:ARG:HH11	2.26	0.44
3:D:1445:HIS:HB2	9:D:9269:HOH:O	2.17	0.44
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.98	0.44
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.44
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.99	0.44
2:M:358:ARG:HH22	2:M:374:ASN:HB2	1.83	0.44
2:M:1095:LEU:O	2:M:1096:ALA:C	2.59	0.44
3:N:36:THR:C	3:N:38:LYS:N	2.75	0.44
3:N:442:ASN:HB3	9:N:9550:HOH:O	2.16	0.44
3:N:702:LEU:HD23	3:N:745:MET:HE1	1.98	0.44
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.32	0.44
3:N:1270:ALA:HB3	9:N:9875:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1467:ILE:H	3:N:1467:ILE:HG13	1.65	0.44
5:P:363:GLU:CA	5:P:367:MET:HG2	2.46	0.44
1:A:9:PRO:HB3	1:A:25:LEU:CD1	2.47	0.44
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.52	0.44
1:B:109:VAL:HA	9:B:383:HOH:O	2.17	0.44
2:C:155:PRO:HB2	9:C:1303:HOH:O	2.16	0.44
2:C:185:LYS:HD3	2:C:190:LYS:NZ	2.33	0.44
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.98	0.44
2:C:603:VAL:H	2:C:647:GLN:H	1.65	0.44
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.99	0.44
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.72	0.44
3:D:65:ARG:HD3	9:D:2178:HOH:O	2.18	0.44
3:D:112:ILE:O	3:D:112:ILE:HD12	2.17	0.44
3:D:860:LEU:O	3:D:877:PRO:HD2	2.17	0.44
3:D:921:ARG:HD2	9:D:9298:HOH:O	2.18	0.44
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.17	0.44
5:F:403:LYS:HD3	9:F:714:HOH:O	2.17	0.44
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.44
1:L:59:GLU:HG2	1:L:139:ASN:O	2.17	0.44
2:M:241:LEU:HB3	9:M:1577:HOH:O	2.17	0.44
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.99	0.44
2:M:350:ARG:HA	2:M:353:ARG:CZ	2.47	0.44
2:M:599:GLU:HB2	9:M:1325:HOH:O	2.17	0.44
2:M:817:PRO:HB3	5:P:305:GLU:OE1	2.18	0.44
2:M:835:VAL:HG11	9:N:9423:HOH:O	2.17	0.44
2:M:877:PRO:HG2	2:M:878:SER:H	1.82	0.44
3:N:838:ARG:HG2	3:N:865:THR:OG1	2.18	0.44
3:N:960:LYS:HG2	3:N:964:LEU:HD12	1.99	0.44
3:N:1093:TYR:O	3:N:1096:ARG:HB3	2.16	0.44
3:N:1219:GLU:HG3	4:O:17:TYR:OH	2.17	0.44
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.45	0.44
3:N:1399:ASP:HA	9:N:9219:HOH:O	2.16	0.44
5:P:102:LEU:HD22	5:P:183:ALA:O	2.17	0.44
5:P:331:ASP:HB2	9:P:5195:HOH:O	2.18	0.44
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.47	0.44
1:B:65:PHE:HE1	3:D:806:PHE:CZ	2.35	0.44
1:B:120:VAL:HB	9:B:441:HOH:O	2.16	0.44
1:B:175:ARG:HD3	1:B:175:ARG:HA	1.73	0.44
2:C:142:ARG:HD3	2:C:325:ILE:HG23	1.99	0.44
2:C:198:ARG:HH21	2:C:204:GLN:HG3	1.82	0.44
2:C:371:LYS:HE3	9:C:1918:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:437:ARG:NH2	2:C:486:MET:O	2.50	0.44
2:C:567:GLN:O	2:C:997:LEU:HD22	2.18	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
2:C:688:ILE:HD12	2:C:688:ILE:N	2.32	0.44
2:C:792:VAL:HG23	9:C:1301:HOH:O	2.18	0.44
2:C:1105:LYS:O	2:C:1107:ASN:N	2.50	0.44
3:D:80:VAL:HG23	9:D:9031:HOH:O	2.17	0.44
3:D:906:GLN:HE22	3:D:910:SER:HB2	1.82	0.44
3:D:971:LEU:O	3:D:975:GLU:HG3	2.18	0.44
3:D:996:TRP:HE3	3:D:999:THR:CG2	2.28	0.44
3:D:1009:LYS:O	3:D:1013:GLU:HG3	2.18	0.44
3:D:1239:ARG:HB2	9:D:9447:HOH:O	2.17	0.44
5:F:77:THR:O	5:F:81:VAL:HG23	2.17	0.44
5:F:372:ARG:HG2	9:F:685:HOH:O	2.17	0.44
1:K:179:PHE:HE2	9:K:3599:HOH:O	2.00	0.44
1:K:227:ASN:H	1:K:227:ASN:ND2	2.16	0.44
2:M:200:LEU:HG	2:M:200:LEU:H	1.59	0.44
2:M:495:THR:H	2:M:530:GLU:CD	2.26	0.44
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.18	0.44
3:N:550:ARG:HG3	3:N:550:ARG:HH11	1.82	0.44
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.99	0.44
3:N:696:HIS:HB2	4:O:48:MET:HE1	1.98	0.44
3:N:827:ILE:O	3:N:837:GLY:HA3	2.18	0.44
3:N:1110:ALA:O	3:N:1111:ASP:C	2.61	0.44
3:N:1112:CYS:HA	9:N:9572:HOH:O	2.17	0.44
4:O:54:LEU:HA	4:O:58:PRO:CG	2.47	0.44
5:P:104:ARG:HG2	9:P:4251:HOH:O	2.16	0.44
5:P:370:LYS:HZ2	5:P:370:LYS:HB3	1.82	0.44
1:A:182:GLU:OE1	2:C:934:PHE:HB3	2.18	0.44
1:A:184:THR:HG23	1:A:192:LEU:CB	2.46	0.44
2:C:39:ARG:HG3	9:C:1262:HOH:O	2.18	0.44
2:C:81:ASP:HB2	9:C:1292:HOH:O	2.17	0.44
2:C:265:ARG:HB2	9:C:1143:HOH:O	2.16	0.44
2:C:305:PRO:HA	2:C:308:ARG:HE	1.82	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD2	2.00	0.44
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.46	0.44
2:C:876:VAL:O	2:C:879:ARG:O	2.36	0.44
2:C:918:LEU:HD23	2:C:967:PHE:O	2.17	0.44
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.18	0.44
3:D:186:VAL:HG13	3:D:187:LYS:N	2.31	0.44
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:600:LEU:N	3:D:600:LEU:HD23	2.32	0.44
3:D:617:ASN:HD22	3:D:617:ASN:HA	1.62	0.44
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.98	0.44
3:D:1114:THR:HG23	3:D:1114:THR:O	2.17	0.44
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.99	0.44
3:D:1468:LEU:HD22	3:D:1470:ARG:HG3	2.00	0.44
4:E:87:LYS:HB2	9:E:127:HOH:O	2.17	0.44
5:F:256:ARG:HH22	5:F:311:ALA:C	2.25	0.44
5:F:319:THR:HG22	5:F:320:PRO:HD2	2.00	0.44
5:F:401:GLU:O	5:F:405:LEU:HD13	2.17	0.44
5:F:407:LYS:HB3	9:F:453:HOH:O	2.18	0.44
5:F:421:PHE:C	5:F:423:ASP:N	2.75	0.44
1:K:175:ARG:NH2	1:K:202:ASP:HA	2.33	0.44
1:K:225:PHE:CE1	1:L:25:LEU:HD22	2.52	0.44
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.44
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.83	0.44
2:M:747:ALA:O	2:M:799:ILE:HA	2.18	0.44
3:N:34:TYR:OH	5:P:264:MET:HG3	2.18	0.44
3:N:535:PHE:O	5:P:314:PRO:HA	2.17	0.44
3:N:866:VAL:HG12	3:N:867:ARG:N	2.31	0.44
3:N:905:PRO:HD3	9:N:9581:HOH:O	2.17	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
3:N:1312:LEU:HG	3:N:1327:ARG:HG3	1.98	0.44
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.65	0.44
3:N:1385:GLY:HA3	9:N:9569:HOH:O	2.16	0.44
3:N:1391:GLU:HB3	3:N:1393:GLN:OE1	2.18	0.44
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.17	0.44
1:A:52:ALA:HB2	1:A:170:VAL:O	2.18	0.44
1:B:51:THR:HB	9:B:467:HOH:O	2.17	0.44
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.33	0.44
2:C:194:VAL:HG21	2:C:221:LEU:HA	2.00	0.44
2:C:198:ARG:CZ	2:C:228:ALA:O	2.65	0.44
2:C:437:ARG:HA	2:C:467:ILE:HG21	2.00	0.44
2:C:599:GLU:HB3	9:C:1560:HOH:O	2.17	0.44
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.98	0.44
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.82	0.44
3:D:558:LEU:HD13	5:F:145:PRO:HB3	2.00	0.44
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.53	0.44
3:D:781:PRO:HB3	3:D:785:ILE:HB	2.00	0.44
3:D:794:GLN:HE21	3:D:794:GLN:HB3	1.58	0.44
3:D:911:LEU:O	3:D:912:LYS:C	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1044:LEU:HD23	9:D:9902:HOH:O	2.18	0.44
3:D:1065:LEU:HD13	3:D:1069:GLU:HB2	2.00	0.44
3:D:1465:ASN:HD21	3:D:1470:ARG:NE	2.16	0.44
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.99	0.44
1:K:20:TYR:CE2	1:K:22:GLU:HG3	2.52	0.44
2:M:262:ALA:O	2:M:264:PRO:O	2.36	0.44
2:M:290:LEU:HA	9:M:1823:HOH:O	2.18	0.44
2:M:428:ARG:HH21	2:M:451:LEU:CD1	2.30	0.44
2:M:442:GLU:CG	2:M:454:SER:H	2.31	0.44
2:M:780:GLU:HG3	2:M:781:LYS:N	2.31	0.44
3:N:75:ARG:HB2	9:N:9306:HOH:O	2.17	0.44
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.53	0.44
3:N:172:PRO:HG3	3:N:178:LEU:HD13	2.00	0.44
3:N:185:VAL:HG22	9:N:2180:HOH:O	2.18	0.44
3:N:674:ARG:HG2	3:N:674:ARG:HH11	1.82	0.44
3:N:783:ARG:HG2	3:N:783:ARG:HH11	1.82	0.44
5:P:159:ILE:O	5:P:163:LEU:HG	2.18	0.44
5:P:291:ILE:HG12	5:P:304:VAL:HG11	2.00	0.44
5:P:391:GLY:HA3	9:P:3841:HOH:O	2.18	0.44
1:B:83:LYS:HE3	1:B:167:VAL:CG1	2.46	0.44
1:B:98:THR:HG22	1:B:100:LEU:CD2	2.48	0.44
2:C:269:LEU:HD12	2:C:288:ARG:HG3	1.99	0.44
2:C:400:PRO:O	2:C:401:LEU:C	2.59	0.44
2:C:420:ARG:H	2:C:420:ARG:CD	2.29	0.44
2:C:430:VAL:O	3:D:1075:HIS:ND1	2.51	0.44
2:C:437:ARG:HE	2:C:469:THR:H	1.65	0.44
2:C:504:GLU:CG	2:C:507:ARG:HB2	2.48	0.44
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	2.00	0.44
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.99	0.44
3:D:122:GLU:HG3	9:D:9582:HOH:O	2.18	0.44
3:D:148:GLU:HG3	9:D:9078:HOH:O	2.18	0.44
3:D:444:VAL:O	3:D:446:VAL:HG23	2.17	0.44
3:D:545:ARG:HD2	9:D:9153:HOH:O	2.18	0.44
3:D:810:GLU:HA	3:D:813:LEU:CD2	2.47	0.44
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.17	0.44
3:D:1184:GLN:N	3:D:1184:GLN:CD	2.75	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.50	0.44
1:K:12:THR:HG21	9:K:5148:HOH:O	2.17	0.44
2:M:218:VAL:HG22	2:M:221:LEU:HD21	1.99	0.44
2:M:356:ARG:HD3	9:M:1999:HOH:O	2.17	0.44
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:112:ILE:HD13	3:N:461:ILE:HG21	2.00	0.44
3:N:161:LEU:HD13	9:N:9313:HOH:O	2.17	0.44
3:N:950:GLY:O	3:N:953:ASP:N	2.41	0.44
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.18	0.44
3:N:1481:VAL:HA	4:O:18:ARG:HH21	1.83	0.44
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.33	0.44
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.52	0.44
1:A:89:PHE:HB2	1:A:94:LEU:HD13	2.00	0.44
1:B:11:PHE:C	9:B:396:HOH:O	2.61	0.44
1:B:182:GLU:N	9:B:579:HOH:O	2.50	0.44
2:C:185:LYS:HG2	2:C:190:LYS:CG	2.47	0.44
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.99	0.44
2:C:267:TYR:CD2	2:C:267:TYR:N	2.85	0.44
2:C:339:LEU:HB3	2:C:385:PHE:CZ	2.53	0.44
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.91	0.44
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.45	0.44
3:D:500:ARG:HG3	3:D:500:ARG:NH1	2.33	0.44
3:D:925:GLU:HA	9:D:9129:HOH:O	2.17	0.44
3:D:1318:TYR:CD1	3:D:1319:VAL:N	2.84	0.44
3:D:1442:ASN:HA	9:D:9032:HOH:O	2.17	0.44
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.99	0.44
5:F:321:ILE:O	5:F:327:SER:HB3	2.18	0.44
1:K:223:THR:C	1:K:225:PHE:H	2.25	0.44
2:M:56:GLU:HG2	2:M:64:LEU:HD23	2.00	0.44
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.33	0.44
2:M:642:ARG:HG3	2:M:654:LEU:HD21	2.00	0.44
2:M:835:VAL:HG13	3:N:725:SER:OG	2.18	0.44
2:M:893:ALA:HB2	2:M:918:LEU:HD12	2.00	0.44
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.79	0.44
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.18	0.44
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.33	0.44
5:P:231:ARG:HD3	9:P:4958:HOH:O	2.17	0.44
2:C:185:LYS:HB3	2:C:188:LYS:O	2.17	0.43
2:C:267:TYR:HD2	2:C:267:TYR:H	1.65	0.43
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.30	0.43
3:D:80:VAL:HG12	3:D:81:THR:O	2.18	0.43
3:D:90:MET:HE3	3:D:90:MET:HB3	1.84	0.43
3:D:169:TYR:N	3:D:170:PRO:HD2	2.33	0.43
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.15	0.43
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.99	0.43
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1209:LEU:C	3:D:1211:MET:N	2.76	0.43
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.33	0.43
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.18	0.43
3:D:1459:LEU:HD12	3:D:1470:ARG:NH1	2.33	0.43
5:F:367:MET:HE1	9:F:519:HOH:O	2.18	0.43
1:L:63:HIS:HB3	9:L:3555:HOH:O	2.18	0.43
1:L:206:THR:HG23	1:L:208:LEU:N	2.33	0.43
2:M:9:ILE:HD13	2:M:536:PRO:HD2	1.99	0.43
2:M:108:ILE:HD12	2:M:108:ILE:N	2.33	0.43
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
2:M:413:LEU:HD13	2:M:448:ASN:OD1	2.18	0.43
2:M:554:ASP:HB3	2:M:880:MET:O	2.18	0.43
2:M:586:ARG:NH1	2:M:590:ASP:OD2	2.51	0.43
2:M:594:ALA:HB3	2:M:596:TYR:HE1	1.83	0.43
2:M:1019:GLN:HE22	3:N:621:LYS:HG2	1.83	0.43
3:N:178:LEU:HG	3:N:200:ASP:H	1.83	0.43
3:N:215:TYR:O	3:N:389:GLU:HB3	2.18	0.43
3:N:513:ILE:HB	9:N:9876:HOH:O	2.18	0.43
3:N:534:ARG:HG2	9:P:3569:HOH:O	2.17	0.43
3:N:614:PHE:O	3:N:617:ASN:HB2	2.17	0.43
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.34	0.43
3:N:774:SER:C	3:N:776:GLU:N	2.76	0.43
3:N:787:LEU:HD12	3:N:787:LEU:O	2.18	0.43
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.58	0.43
3:N:1337:GLU:HB3	9:N:9327:HOH:O	2.17	0.43
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.53	0.43
5:P:414:ARG:HG3	9:P:4806:HOH:O	2.18	0.43
2:C:19:THR:HG21	2:C:124:ASP:O	2.18	0.43
2:C:101:ILE:HD12	2:C:107:LEU:HD22	2.00	0.43
2:C:165:LEU:HA	2:C:166:PRO:O	2.18	0.43
2:C:262:ALA:O	2:C:264:PRO:O	2.36	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.51	0.43
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.48	0.43
2:C:722:ILE:HG21	2:C:805:ARG:HH21	1.82	0.43
2:C:1039:ALA:HB2	3:D:707:THR:HG21	2.00	0.43
3:D:900:ILE:CD1	3:D:902:LEU:HD23	2.48	0.43
3:D:903:ASP:HB3	9:D:9214:HOH:O	2.17	0.43
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.99	0.43
3:D:947:ILE:H	3:D:947:ILE:HG13	1.57	0.43
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.33	0.43
5:F:360:LYS:HA	9:F:621:HOH:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.43
1:K:44:LEU:O	1:K:174:VAL:HG21	2.18	0.43
1:K:217:ILE:HG23	9:K:6003:HOH:O	2.18	0.43
2:M:292:ARG:CD	2:M:299:LYS:HD3	2.45	0.43
2:M:328:LEU:C	2:M:330:ASN:H	2.27	0.43
2:M:383:ARG:CZ	2:M:383:ARG:HB2	2.47	0.43
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.83	0.43
2:M:577:PRO:HD2	2:M:580:MET:HG2	1.99	0.43
2:M:708:TYR:HD1	2:M:708:TYR:H	1.64	0.43
2:M:917:LEU:HD23	2:M:920:GLN:NE2	2.32	0.43
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.48	0.43
3:N:684:LYS:H	3:N:684:LYS:HG3	1.59	0.43
3:N:833:GLU:N	3:N:833:GLU:CD	2.76	0.43
3:N:880:ILE:O	3:N:883:ALA:HB3	2.18	0.43
3:N:1209:LEU:HD12	3:N:1216:SER:HB2	1.99	0.43
3:N:1406:ARG:HG3	3:N:1412:LYS:HG2	2.00	0.43
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.48	0.43
1:A:163:ASN:HD22	1:A:163:ASN:HA	1.65	0.43
1:B:106:PRO:HG3	1:B:133:GLU:O	2.19	0.43
2:C:141:HIS:HB2	2:C:418:LEU:HD12	2.00	0.43
2:C:244:PRO:CD	2:C:245:GLY:N	2.81	0.43
2:C:455:LEU:HD23	2:C:455:LEU:H	1.82	0.43
2:C:619:ARG:HA	9:C:1206:HOH:O	2.18	0.43
2:C:759:THR:HB	2:C:785:VAL:HG21	2.00	0.43
2:C:787:ASP:OD1	2:C:787:ASP:C	2.61	0.43
2:C:1007:ALA:HB2	9:C:1170:HOH:O	2.18	0.43
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.18	0.43
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.18	0.43
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.81	0.43
3:D:45:PHE:CD1	3:D:86:ARG:NH2	2.86	0.43
3:D:186:VAL:HG11	3:D:213:VAL:HB	2.00	0.43
3:D:414:ARG:HB3	9:D:9281:HOH:O	2.19	0.43
3:D:416:ALA:H	3:D:417:PRO:CD	2.30	0.43
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.99	0.43
3:D:618:LEU:HG	9:D:9956:HOH:O	2.18	0.43
3:D:847:ASP:O	3:D:851:LEU:HG	2.19	0.43
3:D:912:LYS:O	3:D:915:VAL:HG23	2.19	0.43
3:D:928:ALA:O	3:D:931:LEU:HB2	2.18	0.43
3:D:988:ARG:O	3:D:992:ILE:HG13	2.19	0.43
3:D:1045:MET:N	9:D:9034:HOH:O	2.51	0.43
3:D:1068:LEU:C	3:D:1070:TYR:N	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1119:SER:HA	3:D:1186:VAL:O	2.18	0.43
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.82	0.43
3:D:1235:GLN:O	3:D:1237:THR:N	2.51	0.43
5:F:282:LEU:HB2	5:F:284:ARG:H	1.83	0.43
5:F:361:LEU:CD2	5:F:362:SER:H	2.22	0.43
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.18	0.43
2:M:77:PRO:HD2	2:M:91:GLN:O	2.18	0.43
2:M:301:GLU:O	2:M:305:PRO:HG2	2.19	0.43
2:M:304:LEU:HD21	9:M:1857:HOH:O	2.17	0.43
2:M:897:LEU:HB3	2:M:899:GLN:HG2	2.00	0.43
2:M:1019:GLN:NE2	3:N:621:LYS:HG2	2.33	0.43
2:M:1043:TYR:HE2	3:N:768:ASN:ND2	2.17	0.43
3:N:567:ILE:HG22	3:N:571:LYS:CE	2.47	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.82	0.43
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.48	0.43
3:N:1109:GLU:CD	3:N:1202:GLN:HB2	2.43	0.43
3:N:1390:LEU:HD11	9:N:9190:HOH:O	2.17	0.43
5:P:214:GLN:OE1	5:P:214:GLN:HA	2.16	0.43
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.53	0.43
1:A:132:LEU:HD12	1:A:132:LEU:N	2.33	0.43
2:C:57:GLU:HG2	9:C:1767:HOH:O	2.18	0.43
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.19	0.43
2:C:534:VAL:H	2:C:538:GLN:NE2	2.15	0.43
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.54	0.43
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	2.01	0.43
2:C:1095:LEU:O	2:C:1096:ALA:C	2.61	0.43
3:D:190:GLU:HB3	9:D:9431:HOH:O	2.18	0.43
3:D:374:GLU:HA	9:D:2147:HOH:O	2.17	0.43
3:D:423:ASP:OD1	5:F:174:LEU:HD13	2.18	0.43
3:D:543:LEU:O	3:D:546:ARG:HB2	2.19	0.43
3:D:621:LYS:NZ	9:D:9787:HOH:O	2.51	0.43
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.38	0.43
3:D:661:MET:HE3	3:D:673:ALA:CB	2.38	0.43
3:D:804:LEU:HD23	3:D:804:LEU:H	1.83	0.43
5:F:320:PRO:HB2	5:F:324:GLU:HG3	2.00	0.43
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.00	0.43
2:M:18:LEU:C	2:M:20:GLU:H	2.27	0.43
2:M:95:TYR:N	2:M:95:TYR:CD1	2.87	0.43
2:M:455:LEU:C	9:M:1316:HOH:O	2.61	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.51	0.43
3:N:169:TYR:HA	3:N:392:SER:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:173:PRO:HG2	3:N:200:ASP:CG	2.43	0.43
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.47	0.43
3:N:764:LEU:HD12	3:N:765:SER:H	1.83	0.43
3:N:938:GLY:O	3:N:942:SER:HB3	2.18	0.43
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.81	0.43
3:N:1267:ARG:NH1	3:N:1331:ASP:HB2	2.29	0.43
5:P:225:GLU:HB2	9:P:3558:HOH:O	2.17	0.43
1:A:29:GLU:HB3	1:A:30:ARG:H	1.69	0.43
1:B:182:GLU:O	1:B:194:LYS:HB3	2.19	0.43
2:C:15:LEU:HD13	2:C:583:LEU:HD11	1.99	0.43
2:C:47:ALA:HB1	2:C:345:ARG:HB3	2.00	0.43
2:C:78:PHE:HB3	2:C:79:PRO:HD2	2.00	0.43
2:C:91:GLN:HE21	2:C:119:PRO:HD3	1.83	0.43
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.83	0.43
2:C:352:ALA:O	2:C:355:VAL:HG12	2.19	0.43
2:C:501:THR:HG22	2:C:513:VAL:CG2	2.49	0.43
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.34	0.43
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	2.00	0.43
3:D:34:TYR:N	3:D:34:TYR:CD2	2.87	0.43
3:D:396:VAL:HG13	3:D:446:VAL:O	2.19	0.43
3:D:894:LYS:HD3	9:D:9911:HOH:O	2.17	0.43
3:D:914:LEU:HD23	3:D:914:LEU:O	2.19	0.43
3:D:972:LEU:CD2	3:D:973:GLN:HE21	2.31	0.43
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.74	0.43
3:D:1264:GLU:HB3	3:D:1266:ARG:NE	2.33	0.43
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.99	0.43
4:E:45:ARG:HB2	4:E:46:PRO:CD	2.49	0.43
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.53	0.43
2:M:148:PHE:CE1	2:M:309:TYR:HB3	2.54	0.43
2:M:260:LEU:HA	2:M:291:ALA:HB2	2.00	0.43
2:M:421:GLU:HB3	9:M:2092:HOH:O	2.18	0.43
2:M:438:ILE:HG12	9:M:1460:HOH:O	2.17	0.43
2:M:496:ILE:H	2:M:496:ILE:HD12	1.83	0.43
2:M:654:LEU:HD11	2:M:657:ASP:HA	2.00	0.43
2:M:1108:PRO:HD3	9:M:1260:HOH:O	2.18	0.43
3:N:41:ARG:HD3	3:N:42:ASP:N	2.34	0.43
3:N:127:LEU:HD23	3:N:134:VAL:HG11	1.99	0.43
3:N:396:VAL:HG13	3:N:446:VAL:O	2.18	0.43
3:N:1097:LYS:O	3:N:1101:VAL:HG22	2.19	0.43
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.17	0.43
3:N:1422:MET:CE	3:N:1427:SER:HA	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:9213:HOH:O	5:P:136:LEU:HD21	2.19	0.43
5:P:131:VAL:HG13	5:P:178:ARG:HG2	2.01	0.43
5:P:232:ARG:HA	5:P:232:ARG:HD2	1.89	0.43
1:A:38:ASN:ND2	9:A:334:HOH:O	2.52	0.43
1:A:150:TYR:OH	2:C:832:LYS:HE3	2.18	0.43
1:B:184:THR:O	1:B:192:LEU:HB2	2.18	0.43
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.54	0.43
2:C:172:ILE:HD12	2:C:172:ILE:N	2.32	0.43
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.38	0.43
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.48	0.43
2:C:393:GLN:HG2	9:C:1727:HOH:O	2.17	0.43
2:C:837:ASP:O	2:C:849:VAL:HG23	2.19	0.43
2:C:944:LEU:HD22	2:C:962:GLN:OE1	2.18	0.43
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.83	0.43
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.53	0.43
3:D:131:LYS:HE2	3:D:568:ARG:CB	2.48	0.43
3:D:185:VAL:HG12	3:D:191:LEU:HD21	2.01	0.43
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.33	0.43
3:D:1110:ALA:O	3:D:1111:ASP:C	2.62	0.43
3:D:1205:TYR:CD2	3:D:1205:TYR:C	2.95	0.43
3:D:1237:THR:HG21	9:D:9202:HOH:O	2.19	0.43
3:D:1408:ILE:HG12	9:D:9641:HOH:O	2.18	0.43
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.19	0.43
3:D:1495:ILE:O	3:D:1499:ARG:HG3	2.19	0.43
4:E:37:ASN:HD22	4:E:89:MET:CE	2.31	0.43
4:E:49:GLN:HA	4:E:51:LEU:O	2.19	0.43
1:K:47:SER:HA	9:K:4719:HOH:O	2.18	0.43
1:K:76:VAL:O	1:K:79:ILE:HG13	2.18	0.43
1:L:74:ASP:HB3	9:N:9057:HOH:O	2.19	0.43
1:L:206:THR:HG23	1:L:208:LEU:H	1.83	0.43
2:M:394:PHE:HB3	9:M:1953:HOH:O	2.18	0.43
2:M:937:ASP:HB2	2:M:940:GLU:HB2	2.01	0.43
2:M:939:ARG:HG3	9:M:1198:HOH:O	2.18	0.43
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.49	0.43
3:N:34:TYR:O	3:N:35:ARG:C	2.61	0.43
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.99	0.43
3:N:410:SER:CB	3:N:414:ARG:HH21	2.32	0.43
3:N:606:ILE:O	3:N:613:ARG:HB2	2.18	0.43
3:N:965:GLU:O	3:N:968:ASP:HB3	2.19	0.43
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.43	0.43
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:23:VAL:CG2	4:O:65:MET:HG2	2.49	0.43
5:P:213:ILE:HG22	5:P:217:ASN:OD1	2.19	0.43
5:P:247:ILE:O	5:P:251:ILE:HG13	2.19	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HG3	2.43	0.43
5:P:392:VAL:HG12	5:P:396:ARG:HG3	2.00	0.43
1:A:23:PHE:O	1:A:196:THR:HA	2.19	0.43
1:A:122:ILE:HD11	9:A:394:HOH:O	2.18	0.43
1:A:221:HIS:HB3	1:B:36:LEU:HD21	1.99	0.43
1:B:109:VAL:HG22	9:B:383:HOH:O	2.18	0.43
1:B:211:LEU:O	1:B:214:ALA:HB3	2.19	0.43
9:B:529:HOH:O	3:D:851:LEU:HD21	2.16	0.43
2:C:213:ALA:N	9:C:1550:HOH:O	2.51	0.43
2:C:317:VAL:HG12	9:C:1216:HOH:O	2.19	0.43
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.54	0.43
2:C:721:ARG:HH21	2:C:783:ARG:NH2	2.04	0.43
2:C:774:LEU:HA	2:C:777:ILE:HD12	2.00	0.43
3:D:57:GLU:OE1	3:D:64:LYS:HE2	2.19	0.43
3:D:565:ILE:H	3:D:565:ILE:HD12	1.84	0.43
3:D:969:ARG:HE	3:D:969:ARG:HB3	1.63	0.43
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.33	0.43
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.43
5:F:119:ILE:HD11	9:F:580:HOH:O	2.18	0.43
5:F:188:ILE:HA	9:F:598:HOH:O	2.18	0.43
5:F:271:LEU:HD11	5:F:307:THR:HB	2.01	0.43
1:K:38:ASN:HB3	1:K:39:PRO:HD3	2.00	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.48	0.43
2:M:141:HIS:NE2	2:M:332:ARG:HD3	2.34	0.43
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.19	0.43
2:M:283:ILE:HG22	2:M:284:ARG:HG3	2.01	0.43
2:M:674:VAL:O	2:M:989:VAL:HA	2.18	0.43
2:M:771:GLU:HA	9:M:1452:HOH:O	2.18	0.43
2:M:775:ARG:N	2:M:775:ARG:HD2	2.33	0.43
2:M:1020:PRO:HD2	3:N:622:ARG:O	2.19	0.43
2:M:1045:ALA:HB1	2:M:1048:THR:HB	2.00	0.43
3:N:21:TRP:HZ3	3:N:518:PRO:HG2	1.84	0.43
3:N:591:VAL:HG11	3:N:597:ASP:HA	2.01	0.43
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.19	0.43
3:N:1353:GLN:HG2	3:N:1368:ILE:CD1	2.48	0.43
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.87	0.43
5:P:211:ASP:OD1	5:P:211:ASP:N	2.51	0.43
5:P:294:ALA:HB2	9:P:3652:HOH:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:410:TYR:O	5:P:413:SER:HB2	2.18	0.43
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.83	0.43
2:C:286:SER:CB	2:C:299:LYS:HE3	2.48	0.43
2:C:332:ARG:HB2	2:C:466:PHE:CE1	2.54	0.43
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.34	0.43
2:C:436:GLY:O	2:C:459:ALA:HB2	2.19	0.43
2:C:437:ARG:HG2	2:C:467:ILE:CG2	2.47	0.43
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.99	0.43
2:C:881:ASN:HD22	2:C:881:ASN:N	2.14	0.43
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.19	0.43
3:D:141:ILE:HD13	3:D:450:TYR:N	2.34	0.43
3:D:521:PRO:O	3:D:525:ARG:HG2	2.19	0.43
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.83	0.43
3:D:882:PHE:O	3:D:886:VAL:HG23	2.18	0.43
3:D:902:LEU:HG	9:D:9056:HOH:O	2.18	0.43
3:D:953:ASP:O	3:D:955:VAL:HG23	2.19	0.43
3:D:960:LYS:HB3	9:D:9060:HOH:O	2.18	0.43
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.01	0.43
3:D:1183:ILE:HG22	9:D:9139:HOH:O	2.17	0.43
4:E:9:LEU:HD22	4:E:19:LEU:HD11	2.01	0.43
4:E:35:PHE:HZ	4:E:60:ALA:HA	1.83	0.43
1:L:54:THR:HG22	1:L:158:ILE:HG13	2.01	0.43
1:L:81:ASN:ND2	1:L:128:HIS:O	2.52	0.43
2:M:9:ILE:HD13	2:M:536:PRO:CD	2.49	0.43
2:M:81:ASP:HB3	9:M:2035:HOH:O	2.19	0.43
2:M:342:ASP:HA	2:M:345:ARG:HG2	1.99	0.43
2:M:405:ARG:HD2	2:M:442:GLU:OE2	2.19	0.43
2:M:582:GLY:N	2:M:584:GLU:OE2	2.44	0.43
2:M:585:GLU:HG2	9:M:1469:HOH:O	2.18	0.43
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.43
3:N:66:GLN:O	3:N:69:GLU:HB3	2.19	0.43
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.19	0.43
3:N:443:VAL:HG11	3:N:445:ARG:HE	1.82	0.43
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.48	0.43
3:N:775:GLY:HA2	9:N:9022:HOH:O	2.19	0.43
3:N:799:LYS:N	3:N:826:PRO:HG2	2.34	0.43
3:N:834:THR:HB	3:N:838:ARG:HB3	2.00	0.43
3:N:919:PHE:C	3:N:919:PHE:CD2	2.97	0.43
3:N:1020:LEU:HA	3:N:1023:MET:HE3	2.00	0.43
3:N:1153:VAL:HG12	3:N:1155:VAL:HG23	2.00	0.43
3:N:1260:ILE:HD13	3:N:1260:ILE:HA	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1492:LEU:HD12	3:N:1493:LYS:CE	2.48	0.43
5:P:74:LYS:HG2	9:P:4226:HOH:O	2.19	0.43
5:P:115:LYS:O	5:P:119:ILE:HG13	2.19	0.43
5:P:262:VAL:N	9:P:4345:HOH:O	2.51	0.43
5:P:358:LEU:HD11	5:P:367:MET:SD	2.59	0.43
1:A:61:VAL:HG11	1:A:75:VAL:HG21	2.01	0.43
1:B:2:LEU:HD12	1:B:3:ASP:HB2	2.01	0.43
1:B:44:LEU:HD11	1:B:199:ILE:HD11	1.99	0.43
1:B:213:GLN:HG3	9:B:515:HOH:O	2.17	0.43
2:C:110:GLU:H	2:C:368:THR:HG21	1.83	0.43
2:C:127:PHE:O	2:C:133:ASP:HA	2.19	0.43
2:C:218:VAL:HG22	2:C:221:LEU:HD23	2.01	0.43
2:C:355:VAL:HB	9:C:1597:HOH:O	2.17	0.43
2:C:409:ARG:HA	2:C:454:SER:HA	2.01	0.43
2:C:438:ILE:HG22	2:C:439:CYS:O	2.19	0.43
2:C:564:MET:CE	2:C:846:LYS:HE2	2.49	0.43
2:C:780:GLU:CD	2:C:781:LYS:HG3	2.43	0.43
3:D:64:LYS:N	3:D:68:PHE:HZ	2.16	0.43
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.48	0.43
3:D:545:ARG:HH21	5:F:257:THR:HG23	1.83	0.43
3:D:591:VAL:HG12	3:D:592:THR:O	2.19	0.43
3:D:829:VAL:HG11	9:D:9455:HOH:O	2.18	0.43
3:D:918:ALA:O	3:D:922:LEU:HG	2.18	0.43
3:D:947:ILE:HD12	3:D:947:ILE:O	2.18	0.43
3:D:1403:LEU:HD12	9:D:9824:HOH:O	2.19	0.43
3:D:1405:GLU:OE2	3:D:1413:THR:HB	2.19	0.43
3:D:1475:GLY:HA2	4:E:17:TYR:CE1	2.54	0.43
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.44	0.43
1:L:12:THR:OG1	1:L:24:VAL:HB	2.18	0.43
1:L:23:PHE:CE1	1:L:208:LEU:HD22	2.54	0.43
1:L:133:GLU:N	9:L:4988:HOH:O	2.51	0.43
2:M:42:VAL:HG12	2:M:43:GLY:N	2.29	0.43
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.84	0.43
2:M:166:PRO:HD3	2:M:265:ARG:HG3	2.01	0.43
2:M:358:ARG:HB3	2:M:371:LYS:O	2.19	0.43
2:M:420:ARG:H	2:M:420:ARG:NE	2.17	0.43
2:M:691:SER:HB2	2:M:858:MET:SD	2.59	0.43
3:N:85:VAL:HB	3:N:89:ARG:NH1	2.33	0.43
3:N:625:TYR:CD1	3:N:625:TYR:N	2.87	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.91	0.43
3:N:765:SER:O	3:N:767:HIS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:C	3:N:1211:MET:N	2.76	0.43
3:N:1353:GLN:HE21	3:N:1353:GLN:HB3	1.64	0.43
5:P:185:GLN:HG3	9:P:4903:HOH:O	2.19	0.43
5:P:243:ILE:O	5:P:247:ILE:HG13	2.18	0.43
1:A:1:MET:O	1:A:6:LEU:HB2	2.19	0.43
1:A:38:ASN:ND2	9:C:1607:HOH:O	2.52	0.43
1:B:162:ILE:HG13	1:B:163:ASN:N	2.34	0.43
1:B:165:ILE:HG13	1:B:165:ILE:O	2.19	0.43
2:C:25:SER:CB	2:C:335:THR:HB	2.49	0.43
2:C:183:SER:HB2	2:C:190:LYS:HG2	2.01	0.43
2:C:579:VAL:HG11	2:C:887:GLU:HG3	2.01	0.43
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.54	0.43
2:C:777:ILE:HD13	9:C:1214:HOH:O	2.18	0.43
2:C:816:LYS:O	2:C:819:VAL:HB	2.19	0.43
3:D:21:TRP:NE1	9:D:2288:HOH:O	2.51	0.43
3:D:36:THR:O	3:D:38:LYS:N	2.51	0.43
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.48	0.43
3:D:164:GLY:HA2	9:D:9007:HOH:O	2.18	0.43
3:D:422:ALA:O	3:D:427:VAL:HG21	2.19	0.43
3:D:657:LEU:HD21	3:D:687:VAL:HG13	2.00	0.43
3:D:761:ILE:HD13	4:E:20:THR:HA	2.00	0.43
3:D:972:LEU:HD23	9:D:2386:HOH:O	2.19	0.43
3:D:1013:GLU:HA	9:D:9714:HOH:O	2.18	0.43
3:D:1496:GLU:HA	3:D:1499:ARG:HG3	2.01	0.43
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.53	0.43
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.53	0.43
2:M:69:LEU:HD11	2:M:99:GLN:HE21	1.84	0.43
2:M:134:ARG:HH12	2:M:387:SER:HA	1.82	0.43
2:M:148:PHE:HD2	2:M:160:ALA:HA	1.84	0.43
2:M:217:LEU:HD12	2:M:311:PHE:CD2	2.54	0.43
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.00	0.43
2:M:686:ASP:HB2	3:N:739:ASP:OD2	2.18	0.43
2:M:721:ARG:O	2:M:758:ARG:HA	2.19	0.43
2:M:808:ARG:HA	2:M:808:ARG:HD2	1.89	0.43
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.33	0.43
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.19	0.43
3:N:445:ARG:HH11	3:N:445:ARG:HG2	1.84	0.43
3:N:482:LYS:HA	3:N:489:ARG:NH2	2.34	0.43
3:N:729:HIS:CE1	3:N:935:LYS:HD3	2.54	0.43
5:P:273:ARG:O	5:P:276:ARG:HB2	2.19	0.43
1:A:34:VAL:HG21	2:C:939:ARG:NE	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:VAL:HG23	9:A:368:HOH:O	2.18	0.42
1:A:176:ARG:NH1	2:C:863:ASP:OD2	2.52	0.42
1:B:36:LEU:C	1:B:39:PRO:HD2	2.42	0.42
1:B:142:VAL:HG23	1:B:142:VAL:O	2.19	0.42
2:C:159:ILE:HD12	9:C:1237:HOH:O	2.19	0.42
2:C:184:MET:HB2	2:C:193:LEU:HD12	2.01	0.42
2:C:189:ARG:HH11	2:C:189:ARG:HG2	1.84	0.42
2:C:299:LYS:HB2	9:C:1862:HOH:O	2.19	0.42
2:C:321:GLU:H	2:C:321:GLU:HG2	1.57	0.42
2:C:841:ASN:ND2	2:C:843:HIS:H	2.13	0.42
2:C:863:ASP:OD2	2:C:863:ASP:C	2.60	0.42
2:C:1097:LEU:C	9:C:1503:HOH:O	2.63	0.42
3:D:396:VAL:HG22	9:D:9055:HOH:O	2.18	0.42
3:D:583:ASP:OD2	3:D:586:ARG:HD2	2.19	0.42
3:D:616:GLN:HG2	3:D:616:GLN:O	2.19	0.42
3:D:667:ALA:HB3	9:D:9062:HOH:O	2.20	0.42
4:E:87:LYS:HG2	9:E:103:HOH:O	2.19	0.42
5:F:373:LYS:HD3	5:F:378:GLY:C	2.44	0.42
5:F:419:ARG:O	5:F:421:PHE:N	2.52	0.42
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.19	0.42
2:M:184:MET:SD	2:M:303:PHE:HE2	2.42	0.42
2:M:470:PRO:HD3	2:M:485:TYR:CE2	2.54	0.42
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.32	0.42
2:M:535:SER:O	2:M:538:GLN:HG2	2.19	0.42
2:M:565:GLN:OE1	2:M:842:ARG:HG2	2.19	0.42
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.33	0.42
2:M:1115:LEU:CB	3:N:85:VAL:HG12	2.46	0.42
3:N:102:ILE:N	9:N:2184:HOH:O	2.51	0.42
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.46	0.42
3:N:153:LEU:HD12	3:N:154:THR:N	2.34	0.42
3:N:516:ALA:O	3:N:518:PRO:HD3	2.19	0.42
3:N:563:PRO:HG2	3:N:566:ILE:HB	2.01	0.42
3:N:760:ARG:NE	4:O:3:GLU:OE2	2.48	0.42
3:N:950:GLY:O	3:N:951:ILE:C	2.60	0.42
3:N:964:LEU:HB3	9:N:2215:HOH:O	2.18	0.42
3:N:1112:CYS:HB3	9:N:9751:HOH:O	2.19	0.42
3:N:1275:SER:HB3	3:N:1325:LEU:HD22	2.00	0.42
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.83	0.42
3:N:1364:HIS:CE1	3:N:1366:LYS:H	2.35	0.42
3:N:1376:MET:HB2	9:N:9599:HOH:O	2.18	0.42
5:P:203:THR:HG22	5:P:204:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:TYR:HE2	1:A:22:GLU:HG3	1.84	0.42
1:A:180:GLN:HE22	2:C:929:ARG:NH2	2.17	0.42
1:A:206:THR:HG22	1:A:209:GLU:H	1.83	0.42
2:C:87:ASP:O	2:C:814:GLU:CD	2.62	0.42
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.49	0.42
2:C:197:LEU:HD22	2:C:202:TYR:CD2	2.54	0.42
2:C:802:ARG:HB2	9:C:2027:HOH:O	2.19	0.42
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.47	0.42
3:D:32:ILE:HG22	5:F:258:ILE:HD12	2.02	0.42
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.19	0.42
3:D:153:LEU:HD13	3:D:157:GLU:HB2	1.99	0.42
3:D:209:ARG:NH1	3:D:397:LYS:HG3	2.34	0.42
3:D:399:ARG:HB2	3:D:444:VAL:HG13	2.00	0.42
3:D:574:LEU:O	3:D:577:ALA:HB3	2.19	0.42
3:D:646:LYS:HZ1	3:D:688:TRP:HE1	1.66	0.42
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.42
3:D:804:LEU:HB3	9:D:9141:HOH:O	2.18	0.42
3:D:1059:SER:OG	3:D:1065:LEU:HA	2.19	0.42
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.49	0.42
3:D:1372:VAL:HA	3:D:1375:MET:HE3	2.00	0.42
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.82	0.42
4:E:17:TYR:N	4:E:17:TYR:CD2	2.87	0.42
1:K:52:ALA:HB2	1:K:170:VAL:O	2.19	0.42
2:M:114:PHE:HE1	9:P:4182:HOH:O	2.01	0.42
2:M:414:GLY:HA3	2:M:415:PRO:HD3	1.91	0.42
2:M:464:LEU:HD12	2:M:464:LEU:HA	1.82	0.42
2:M:603:VAL:O	2:M:646:GLY:HA2	2.19	0.42
2:M:677:MET:HE1	2:M:983:ILE:CD1	2.48	0.42
2:M:811:PRO:HA	9:M:1349:HOH:O	2.18	0.42
2:M:854:PRO:C	2:M:856:GLU:N	2.76	0.42
2:M:1002:GLU:H	2:M:1002:GLU:HG3	1.52	0.42
3:N:52:PRO:HG2	3:N:79:GLU:C	2.43	0.42
3:N:149:LYS:H	3:N:149:LYS:HG3	1.53	0.42
3:N:983:LEU:HD23	9:N:9324:HOH:O	2.19	0.42
3:N:1139:ASP:HB3	3:N:1357:ARG:NH2	2.34	0.42
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	2.01	0.42
4:O:49:GLN:HA	4:O:51:LEU:O	2.19	0.42
5:P:195:VAL:HG12	5:P:213:ILE:HG23	2.00	0.42
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.49	0.42
1:B:69:PRO:O	1:B:71:VAL:HG23	2.20	0.42
2:C:122:THR:HG22	2:C:123:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:689:VAL:HB	2:C:870:ILE:HG13	2.01	0.42
3:D:180:LYS:HG2	9:D:9440:HOH:O	2.19	0.42
3:D:427:VAL:HG21	3:D:435:VAL:HB	2.01	0.42
3:D:920:LEU:C	9:D:9237:HOH:O	2.62	0.42
3:D:1026:SER:C	3:D:1028:ALA:N	2.77	0.42
3:D:1269:LYS:HE2	3:D:1269:LYS:O	2.18	0.42
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.19	0.42
3:D:1377:LYS:O	3:D:1394:VAL:HA	2.18	0.42
1:K:10:VAL:HG12	1:K:12:THR:CG2	2.49	0.42
1:K:56:VAL:HG21	1:K:82:LEU:CD1	2.49	0.42
1:L:24:VAL:HG11	1:L:194:LYS:HE2	2.01	0.42
1:L:140:MET:HB2	9:L:3859:HOH:O	2.18	0.42
1:L:191:ASP:O	1:L:192:LEU:HG	2.19	0.42
2:M:326:ASP:HB2	2:M:431:HIS:CG	2.53	0.42
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.49	0.42
2:M:676:ILE:HG21	2:M:988:VAL:HG22	2.01	0.42
2:M:752:GLY:N	2:M:792:VAL:HB	2.23	0.42
2:M:971:LYS:HE2	3:N:950:GLY:HA3	2.01	0.42
3:N:744:GLN:HE21	3:N:744:GLN:HB3	1.62	0.42
4:O:13:VAL:HG23	9:O:3506:HOH:O	2.18	0.42
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.41	0.42
5:P:377:ASP:O	5:P:378:GLY:C	2.63	0.42
1:A:112:ARG:HA	9:A:459:HOH:O	2.20	0.42
1:A:182:GLU:CD	2:C:934:PHE:HB3	2.43	0.42
1:B:180:GLN:HB3	9:B:579:HOH:O	2.19	0.42
2:C:52:PHE:HB2	9:C:1342:HOH:O	2.18	0.42
2:C:404:LEU:O	2:C:408:ARG:HG2	2.19	0.42
2:C:551:GLU:O	3:D:1065:LEU:HB3	2.19	0.42
2:C:717:LEU:HB2	9:C:1324:HOH:O	2.19	0.42
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.83	0.42
2:C:798:GLY:HA2	9:C:1154:HOH:O	2.19	0.42
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.50	0.42
3:D:152:LEU:HD23	3:D:152:LEU:N	2.34	0.42
3:D:528:VAL:O	3:D:535:PHE:CA	2.65	0.42
3:D:568:ARG:O	3:D:569:ASN:C	2.61	0.42
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.34	0.42
3:D:800:LYS:HD3	3:D:804:LEU:HD22	2.01	0.42
3:D:900:ILE:HD11	3:D:902:LEU:HD23	2.01	0.42
3:D:1138:ALA:HB3	9:D:9318:HOH:O	2.20	0.42
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	2.00	0.42
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.20	0.42
1:K:184:THR:O	1:K:192:LEU:HD12	2.20	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.87	0.42
1:L:89:PHE:HE2	1:L:146:ARG:NE	2.17	0.42
2:M:22:GLN:O	2:M:121:MET:HE1	2.19	0.42
2:M:140:ILE:HD12	9:M:1151:HOH:O	2.18	0.42
2:M:174:LEU:HD23	2:M:184:MET:HG2	2.02	0.42
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.19	0.42
2:M:412:ALA:O	2:M:414:GLY:N	2.53	0.42
2:M:976:ASP:OD1	2:M:978:ARG:HD3	2.20	0.42
2:M:1016:ILE:HD12	5:P:317:LEU:HD21	2.01	0.42
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.53	0.42
3:N:493:ARG:CZ	3:N:493:ARG:HB2	2.49	0.42
3:N:494:LYS:HA	3:N:497:GLU:OE1	2.19	0.42
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.35	0.42
3:N:879:ARG:HD3	9:N:9187:HOH:O	2.18	0.42
3:N:1026:SER:C	3:N:1028:ALA:N	2.77	0.42
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.49	0.42
3:N:1344:VAL:HG12	3:N:1348:LEU:CD2	2.50	0.42
4:O:74:VAL:HB	4:O:79:LEU:HD21	2.01	0.42
5:P:131:VAL:CG1	5:P:181:GLU:HG3	2.41	0.42
1:A:68:ILE:HG21	1:A:138:LEU:HD13	2.02	0.42
1:B:151:VAL:HB	1:B:169:ALA:HB3	2.00	0.42
2:C:19:THR:HG22	2:C:22:GLN:HB2	2.01	0.42
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.01	0.42
2:C:147:TYR:CE2	2:C:280:LYS:HE2	2.54	0.42
2:C:480:THR:HG22	2:C:482:GLU:H	1.85	0.42
2:C:678:PRO:CG	3:D:947:ILE:HD11	2.45	0.42
2:C:987:ILE:HG22	2:C:988:VAL:O	2.18	0.42
2:C:1002:GLU:HA	2:C:1006:HIS:HE1	1.85	0.42
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.88	0.42
3:D:8:VAL:O	3:D:1434:TRP:HH2	2.02	0.42
3:D:422:ALA:H	3:D:427:VAL:CG1	2.31	0.42
3:D:495:ARG:O	3:D:495:ARG:HG2	2.20	0.42
3:D:573:MET:HE1	5:F:214:GLN:HG3	2.02	0.42
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.19	0.42
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.19	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.49	0.42
3:D:1311:LEU:H	3:D:1311:LEU:CD2	2.25	0.42
5:F:80:PRO:O	5:F:83:GLN:HB2	2.20	0.42
1:L:91:ASN:H	1:L:94:LEU:CD1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:44:ILE:O	2:M:48:PHE:HB2	2.19	0.42
2:M:115:LEU:HB3	2:M:375:SER:OG	2.20	0.42
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.49	0.42
2:M:273:GLY:HA2	2:M:276:LYS:HD3	2.00	0.42
2:M:475:VAL:HG23	2:M:475:VAL:O	2.19	0.42
2:M:742:VAL:HB	9:M:1733:HOH:O	2.17	0.42
2:M:1012:PRO:HA	9:M:1524:HOH:O	2.19	0.42
3:N:171:LEU:HD13	3:N:389:GLU:O	2.19	0.42
3:N:850:LEU:O	3:N:853:VAL:HB	2.20	0.42
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.50	0.42
3:N:1108:ARG:HG2	9:N:9360:HOH:O	2.18	0.42
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.51	0.42
3:N:1493:LYS:O	3:N:1496:GLU:HG2	2.20	0.42
5:P:241:TRP:CZ3	5:P:245:GLN:HG2	2.54	0.42
5:P:295:MET:HE2	5:P:295:MET:O	2.19	0.42
1:B:86:VAL:HG12	1:B:124:ASN:HB2	2.01	0.42
2:C:207:LEU:HD13	2:C:221:LEU:CD1	2.50	0.42
2:C:571:LEU:HD13	2:C:669:GLY:H	1.84	0.42
2:C:837:ASP:O	2:C:848:VAL:HG13	2.20	0.42
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.84	0.42
2:C:1054:THR:HB	2:C:1055:LEU:H	1.57	0.42
3:D:34:TYR:O	3:D:35:ARG:C	2.61	0.42
3:D:895:VAL:O	3:D:899:LEU:HG	2.19	0.42
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.35	0.42
3:D:1139:ASP:CB	9:D:2265:HOH:O	2.62	0.42
5:F:88:ILE:O	5:F:92:PRO:HG3	2.20	0.42
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.20	0.42
1:K:9:PRO:HB3	1:K:25:LEU:HG	2.01	0.42
1:K:58:ILE:HD12	1:K:138:LEU:CD1	2.47	0.42
1:L:69:PRO:HG3	9:L:7028:HOH:O	2.18	0.42
2:M:473:ARG:HG3	2:M:474:VAL:N	2.35	0.42
3:N:30:GLU:N	9:N:9441:HOH:O	2.52	0.42
3:N:36:THR:O	3:N:38:LYS:N	2.53	0.42
3:N:78:VAL:O	3:N:78:VAL:HG12	2.20	0.42
3:N:186:VAL:HG23	3:N:211:VAL:CG1	2.50	0.42
3:N:397:LYS:HD3	9:N:9346:HOH:O	2.18	0.42
3:N:911:LEU:O	3:N:912:LYS:C	2.62	0.42
3:N:937:TYR:HB3	3:N:941:PHE:CE1	2.55	0.42
3:N:955:VAL:HB	3:N:1011:PHE:CE1	2.53	0.42
3:N:1485:GLN:H	3:N:1485:GLN:HG2	1.69	0.42
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:5:ARG:HG2	2:C:5:ARG:HH11	1.85	0.42
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.49	0.42
2:C:196:LEU:HB3	9:C:1668:HOH:O	2.19	0.42
2:C:221:LEU:HG	2:C:222:MET:N	2.35	0.42
2:C:358:ARG:HB3	2:C:371:LYS:O	2.19	0.42
2:C:492:ASP:HB3	2:C:518:LYS:CD	2.49	0.42
2:C:496:ILE:HD12	2:C:496:ILE:N	2.34	0.42
2:C:527:GLU:H	2:C:527:GLU:HG2	1.54	0.42
2:C:679:PHE:O	2:C:680:ASP:C	2.60	0.42
2:C:905:ILE:HD12	2:C:905:ILE:N	2.34	0.42
2:C:925:TYR:CD1	2:C:925:TYR:C	2.98	0.42
2:C:1104:GLU:HB3	9:C:1420:HOH:O	2.18	0.42
3:D:175:VAL:HG13	3:D:217:LYS:CB	2.50	0.42
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.50	0.42
3:D:601:ARG:NH1	5:F:328:PHE:HD1	2.18	0.42
3:D:1103:HIS:N	9:D:9090:HOH:O	2.53	0.42
3:D:1129:THR:HB	9:D:9663:HOH:O	2.19	0.42
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.34	0.42
3:D:1209:LEU:CD2	3:D:1211:MET:HB3	2.49	0.42
3:D:1275:SER:HB3	3:D:1325:LEU:HD13	2.01	0.42
5:F:136:LEU:HD12	5:F:137:GLY:N	2.35	0.42
5:F:377:ASP:O	5:F:378:GLY:C	2.62	0.42
1:K:5:LYS:HE3	9:L:6423:HOH:O	2.18	0.42
1:L:219:ARG:O	1:L:223:THR:HG23	2.18	0.42
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.50	0.42
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.55	0.42
2:M:242:LEU:HD22	9:M:1173:HOH:O	2.19	0.42
2:M:291:ALA:O	2:M:299:LYS:HE2	2.19	0.42
2:M:474:VAL:HG23	2:M:478:VAL:C	2.45	0.42
2:M:771:GLU:HG3	9:M:1452:HOH:O	2.19	0.42
2:M:782:ALA:HB1	9:M:2039:HOH:O	2.19	0.42
2:M:816:LYS:HB2	2:M:819:VAL:HG21	2.01	0.42
2:M:958:THR:HG23	2:M:961:GLU:H	1.84	0.42
2:M:1042:ALA:HB1	3:N:710:ARG:HD3	2.02	0.42
2:M:1100:GLN:HE21	2:M:1100:GLN:HB2	1.59	0.42
3:N:775:GLY:HA3	3:N:1145:TYR:CE1	2.54	0.42
3:N:786:ILE:CD1	3:N:908:LYS:HB3	2.50	0.42
3:N:809:PRO:HG2	9:N:9787:HOH:O	2.19	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.55	0.42
3:N:1209:LEU:CD2	3:N:1210:SER:H	2.29	0.42
3:N:1364:HIS:ND1	3:N:1364:HIS:C	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:25:LYS:HG2	4:O:28:GLN:HE22	1.85	0.42
5:P:328:PHE:C	5:P:330:GLY:N	2.77	0.42
1:A:177:VAL:HG12	1:A:178:ALA:N	2.35	0.42
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.49	0.42
2:C:394:PHE:HE1	9:C:2065:HOH:O	2.02	0.42
2:C:420:ARG:HG2	2:C:422:ARG:HG2	2.02	0.42
2:C:443:THR:HA	2:C:444:PRO:HD3	1.72	0.42
2:C:682:TYR:OH	3:D:636:GLN:CD	2.63	0.42
2:C:1014:SER:HB3	2:C:1017:THR:O	2.20	0.42
3:D:107:ASP:O	3:D:108:VAL:C	2.61	0.42
3:D:122:GLU:OE1	3:D:122:GLU:HA	2.18	0.42
3:D:169:TYR:HA	3:D:392:SER:HA	2.02	0.42
3:D:188:GLY:HA3	9:D:2377:HOH:O	2.19	0.42
3:D:439:LEU:HD21	9:F:435:HOH:O	2.20	0.42
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.35	0.42
3:D:684:LYS:HG3	9:D:9754:HOH:O	2.18	0.42
3:D:1107:VAL:O	3:D:1218:GLY:N	2.43	0.42
3:D:1112:CYS:HA	9:D:9558:HOH:O	2.20	0.42
3:D:1489:GLN:OE1	3:D:1492:LEU:HD12	2.19	0.42
5:F:194:LEU:HD23	9:F:591:HOH:O	2.20	0.42
5:F:363:GLU:HA	5:F:367:MET:HG2	2.02	0.42
1:K:211:LEU:C	1:K:211:LEU:HD12	2.45	0.42
1:L:147:GLY:N	1:L:171:PHE:CE1	2.87	0.42
2:M:244:PRO:CD	2:M:245:GLY:N	2.83	0.42
2:M:290:LEU:HB3	2:M:302:VAL:HG12	2.01	0.42
2:M:409:ARG:HG3	2:M:454:SER:HB3	2.01	0.42
2:M:419:THR:N	9:M:2102:HOH:O	2.52	0.42
2:M:925:TYR:HE1	2:M:929:ARG:NH1	2.18	0.42
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.49	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.49	0.42
3:N:197:SER:CB	3:N:203:ALA:HB3	2.27	0.42
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.49	0.42
3:N:1447:LEU:O	3:N:1448:THR:C	2.62	0.42
4:O:36:LYS:HZ2	4:O:41:GLU:CD	2.28	0.42
4:O:86:GLN:HE21	4:O:86:GLN:HB3	1.72	0.42
4:O:89:MET:HE3	9:O:3549:HOH:O	2.19	0.42
5:P:94:LEU:HD23	5:P:96:LEU:H	1.85	0.42
5:P:157:GLU:HG2	9:P:3795:HOH:O	2.20	0.42
5:P:321:ILE:HG12	5:P:327:SER:O	2.20	0.42
1:A:96:THR:N	9:A:513:HOH:O	2.53	0.42
1:A:180:GLN:HB3	1:A:180:GLN:HE21	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:ASN:HD22	1:B:38:ASN:HA	1.62	0.42
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.01	0.42
1:B:208:LEU:CD1	1:B:212:ASN:HD21	2.33	0.42
1:B:223:THR:C	1:B:225:PHE:H	2.28	0.42
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.19	0.42
2:C:127:PHE:HA	9:C:1619:HOH:O	2.19	0.42
2:C:199:VAL:HG13	2:C:235:LEU:CG	2.50	0.42
2:C:395:LYS:HE3	2:C:407:LYS:HE3	2.02	0.42
2:C:420:ARG:HG2	2:C:422:ARG:CG	2.50	0.42
2:C:447:ALA:O	2:C:449:ILE:N	2.53	0.42
2:C:611:ILE:HD11	2:C:641:PRO:CG	2.50	0.42
2:C:674:VAL:O	2:C:989:VAL:HA	2.19	0.42
3:D:30:GLU:HG3	3:D:41:ARG:HG2	2.00	0.42
3:D:66:GLN:O	3:D:69:GLU:HB3	2.20	0.42
3:D:178:LEU:CD2	3:D:199:LEU:H	2.32	0.42
3:D:249:TYR:HA	9:D:2084:HOH:O	2.18	0.42
3:D:395:VAL:HG12	9:D:9458:HOH:O	2.19	0.42
3:D:397:LYS:HE2	9:D:2321:HOH:O	2.20	0.42
3:D:573:MET:HE1	5:F:214:GLN:CG	2.50	0.42
3:D:792:ILE:O	3:D:878:GLY:HA3	2.20	0.42
3:D:1059:SER:HB2	9:D:9027:HOH:O	2.20	0.42
3:D:1263:PHE:CD2	3:D:1375:MET:HE1	2.55	0.42
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.48	0.42
4:E:37:ASN:HA	4:E:93:TYR:CE2	2.54	0.42
5:F:378:GLY:HA2	9:F:832:HOH:O	2.20	0.42
1:K:210:ALA:HA	1:K:213:GLN:HE21	1.83	0.42
1:L:73:GLU:HB3	1:L:77:GLU:HG3	2.02	0.42
1:L:101:LEU:HD21	1:L:113:ASP:HB3	2.00	0.42
1:L:211:LEU:O	1:L:214:ALA:HB3	2.19	0.42
2:M:48:PHE:HD1	9:M:1409:HOH:O	2.03	0.42
2:M:157:ARG:HG2	2:M:157:ARG:NH1	2.33	0.42
2:M:776:SER:HB3	9:M:1271:HOH:O	2.19	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:H	1.83	0.42
9:M:1524:HOH:O	5:P:340:SER:HB2	2.18	0.42
3:N:152:LEU:H	3:N:152:LEU:CD2	2.24	0.42
3:N:196:VAL:HG21	9:N:2241:HOH:O	2.19	0.42
3:N:441:ARG:HG3	9:N:2261:HOH:O	2.19	0.42
3:N:703:ASN:ND2	3:N:704:ARG:N	2.66	0.42
3:N:1156:LEU:HD11	3:N:1176:LYS:HD2	2.02	0.42
1:A:26:GLU:HG3	1:A:184:THR:HG21	2.02	0.42
2:C:56:GLU:HB3	9:C:1339:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.50	0.42
2:C:86:LYS:HG3	2:C:813:VAL:HG12	2.02	0.42
2:C:191:PHE:CE2	2:C:196:LEU:HD12	2.55	0.42
2:C:838:LYS:HE2	2:C:997:LEU:HB3	2.01	0.42
2:C:1051:GLU:OE2	3:D:751:LEU:HB2	2.20	0.42
3:D:34:TYR:N	3:D:34:TYR:HD2	2.18	0.42
3:D:565:ILE:HD12	3:D:565:ILE:N	2.35	0.42
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.85	0.42
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.20	0.42
3:D:1221:VAL:O	3:D:1222:GLY:C	2.62	0.42
5:F:262:VAL:HG23	9:F:670:HOH:O	2.19	0.42
1:L:123:MET:HE1	9:L:4148:HOH:O	2.20	0.42
2:M:252:LYS:HB3	2:M:298:PHE:HZ	1.85	0.42
2:M:423:ALA:HB3	9:M:1712:HOH:O	2.18	0.42
2:M:1109:VAL:HG12	2:M:1110:ASP:N	2.35	0.42
3:N:81:THR:HG22	3:N:82:LYS:H	1.85	0.42
3:N:186:VAL:HG11	3:N:213:VAL:HB	2.02	0.42
3:N:759:ALA:HA	3:N:763:MET:HB3	2.02	0.42
3:N:1004:THR:HG22	9:N:9321:HOH:O	2.20	0.42
3:N:1065:LEU:HD11	3:N:1070:TYR:N	2.35	0.42
3:N:1084:THR:HG23	3:N:1087:ARG:NH1	2.35	0.42
3:N:1305:LEU:HD22	3:N:1309:ALA:CB	2.50	0.42
3:N:1462:LEU:O	3:N:1466:VAL:HB	2.20	0.42
5:P:260:ILE:HG23	5:P:264:MET:CB	2.46	0.42
1:A:227:ASN:N	1:A:227:ASN:HD22	2.18	0.41
2:C:99:GLN:HB2	9:C:1802:HOH:O	2.18	0.41
2:C:129:ILE:HG12	2:C:386:PHE:HB3	2.02	0.41
2:C:146:VAL:HG23	9:C:1227:HOH:O	2.19	0.41
2:C:198:ARG:CZ	2:C:203:ASP:HA	2.50	0.41
2:C:357:GLU:HB2	9:C:1268:HOH:O	2.20	0.41
2:C:428:ARG:HD3	2:C:450:GLY:N	2.31	0.41
2:C:864:GLY:O	2:C:866:PRO:HD3	2.19	0.41
3:D:28:LYS:O	3:D:43:GLY:HA2	2.20	0.41
3:D:29:PRO:CB	3:D:545:ARG:HG2	2.49	0.41
3:D:131:LYS:HE3	5:F:83:GLN:NE2	2.34	0.41
3:D:456:MET:C	9:D:9210:HOH:O	2.62	0.41
3:D:613:ARG:HA	3:D:613:ARG:HD3	1.78	0.41
3:D:868:TYR:HB3	3:D:873:LEU:HD12	2.01	0.41
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.21	0.41
3:D:1196:THR:HG22	9:D:9004:HOH:O	2.20	0.41
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.20	0.41
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.49	0.41
1:K:79:ILE:HA	1:K:82:LEU:HD12	2.02	0.41
1:K:140:MET:HG3	1:K:142:VAL:HG12	2.02	0.41
1:K:218:LEU:HG	1:L:222:LEU:HD11	2.02	0.41
1:L:13:VAL:HG11	1:L:208:LEU:HD11	2.02	0.41
1:L:88:ARG:HG2	1:L:88:ARG:NH1	2.34	0.41
1:L:111:ALA:HB3	1:L:124:ASN:O	2.20	0.41
2:M:100:LEU:HD12	2:M:101:ILE:O	2.20	0.41
2:M:289:THR:O	2:M:291:ALA:N	2.53	0.41
2:M:393:GLN:HE21	2:M:393:GLN:HB2	1.69	0.41
2:M:497:ALA:HA	2:M:515:ALA:HA	2.01	0.41
2:M:503:LEU:HD13	2:M:507:ARG:O	2.20	0.41
2:M:537:LYS:CG	2:M:905:ILE:HD11	2.50	0.41
2:M:626:ARG:HB2	2:M:626:ARG:HH11	1.84	0.41
2:M:783:ARG:HD3	9:M:1522:HOH:O	2.19	0.41
2:M:971:LYS:HB3	2:M:987:ILE:C	2.46	0.41
2:M:1103:ASP:HB3	2:M:1105:LYS:O	2.20	0.41
3:N:112:ILE:O	3:N:116:LEU:HB2	2.20	0.41
3:N:892:ASP:HB3	3:N:895:VAL:HG23	2.02	0.41
3:N:1122:LEU:HD12	9:N:9340:HOH:O	2.19	0.41
3:N:1155:VAL:HG11	3:N:1177:ALA:CB	2.50	0.41
3:N:1165:TYR:HD1	9:N:2038:HOH:O	2.02	0.41
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.54	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:HD23	2.02	0.41
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.49	0.41
4:O:45:ARG:HB2	4:O:46:PRO:HD2	2.01	0.41
5:P:85:LEU:HD22	9:P:4990:HOH:O	2.20	0.41
5:P:417:LYS:HD3	9:P:5784:HOH:O	2.20	0.41
1:B:68:ILE:HD12	1:B:71:VAL:HG21	2.02	0.41
1:B:75:VAL:O	1:B:79:ILE:HG23	2.19	0.41
1:B:117:VAL:HB	9:B:441:HOH:O	2.20	0.41
1:B:219:ARG:O	1:B:223:THR:HG23	2.20	0.41
2:C:86:LYS:HG2	2:C:813:VAL:HG12	2.01	0.41
2:C:91:GLN:HA	2:C:119:PRO:HA	2.02	0.41
2:C:140:ILE:HD12	2:C:140:ILE:N	2.35	0.41
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.50	0.41
2:C:525:SER:OG	2:C:528:GLU:HG3	2.19	0.41
2:C:546:LEU:HB2	2:C:565:GLN:HE22	1.85	0.41
2:C:945:ARG:HG3	2:C:946:ARG:H	1.84	0.41
2:C:983:ILE:O	2:C:984:GLU:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:490:ALA:HA	9:D:9772:HOH:O	2.20	0.41
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.50	0.41
3:D:598:ARG:HH11	3:D:598:ARG:CG	2.28	0.41
3:D:729:HIS:ND1	3:D:731:LEU:N	2.66	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.02	0.41
3:D:1286:THR:HG21	9:D:9432:HOH:O	2.20	0.41
3:D:1463:LYS:HD3	3:D:1463:LYS:HA	1.97	0.41
5:F:122:LEU:HD21	9:F:541:HOH:O	2.19	0.41
5:F:340:SER:O	5:F:341:PRO:C	2.63	0.41
2:M:91:GLN:CD	2:M:117:HIS:HB3	2.45	0.41
2:M:205:GLU:OE1	2:M:206:THR:N	2.53	0.41
2:M:256:TYR:HA	9:M:2103:HOH:O	2.19	0.41
2:M:411:SER:CA	2:M:452:ILE:HG23	2.46	0.41
2:M:525:SER:OG	2:M:528:GLU:HG2	2.20	0.41
2:M:557:ARG:NH1	2:M:879:ARG:HG2	2.35	0.41
2:M:598:GLU:O	2:M:651:LYS:HG3	2.20	0.41
2:M:663:ASN:HD22	2:M:663:ASN:HA	1.53	0.41
2:M:690:ILE:HD12	2:M:833:LEU:HD23	2.02	0.41
2:M:717:LEU:HB2	2:M:761:PHE:HB2	2.01	0.41
2:M:983:ILE:O	2:M:984:GLU:C	2.63	0.41
3:N:73:CYS:HB3	3:N:76:CYS:O	2.20	0.41
3:N:74:GLU:CD	3:N:74:GLU:H	2.28	0.41
3:N:74:GLU:HG3	9:N:9879:HOH:O	2.19	0.41
3:N:704:ARG:CZ	3:N:737:ASN:O	2.69	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.84	0.41
5:P:202:TYR:OH	5:P:244:ARG:HD2	2.19	0.41
5:P:293:GLU:HB3	9:P:4691:HOH:O	2.20	0.41
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.20	0.41
1:A:149:GLY:O	1:A:171:PHE:HB2	2.20	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.20	0.41
1:B:24:VAL:HG13	1:B:196:THR:CG2	2.45	0.41
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.22	0.41
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.41
2:C:36:PRO:HB2	2:C:70:GLU:OE2	2.20	0.41
2:C:147:TYR:HD1	9:C:1799:HOH:O	2.01	0.41
2:C:163:ILE:HB	2:C:171:TRP:CZ2	2.56	0.41
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.55	0.41
2:C:705:ILE:HA	2:C:827:VAL:O	2.20	0.41
2:C:722:ILE:O	2:C:722:ILE:HD13	2.20	0.41
2:C:831:ARG:NH1	9:C:2048:HOH:O	2.52	0.41
2:C:858:MET:SD	2:C:867:VAL:O	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:C:1260:HOH:O	3:D:740:PHE:C	2.62	0.41
3:D:124:GLU:HG2	3:D:128:TYR:CZ	2.55	0.41
3:D:178:LEU:CD1	3:D:200:ASP:H	2.34	0.41
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.47	0.41
3:D:689:ASP:O	3:D:693:GLU:HB2	2.20	0.41
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.21	0.41
5:F:74:LYS:HA	5:F:74:LYS:HD3	1.88	0.41
5:F:410:TYR:O	5:F:413:SER:HB2	2.19	0.41
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.50	0.41
1:K:100:LEU:O	1:K:115:LEU:HG	2.20	0.41
1:K:101:LEU:HG	1:K:113:ASP:C	2.45	0.41
1:L:223:THR:C	1:L:225:PHE:H	2.28	0.41
2:M:28:ARG:HG3	2:M:40:GLU:CD	2.45	0.41
2:M:102:HIS:HB3	2:M:104:ASP:O	2.20	0.41
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.55	0.41
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.49	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.01	0.41
2:M:695:LEU:HD21	2:M:833:LEU:HB3	2.02	0.41
2:M:1034:GLU:HB3	3:N:618:LEU:O	2.19	0.41
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.20	0.41
2:M:1104:GLU:HA	3:N:6:ARG:HH11	1.86	0.41
2:M:1105:LYS:HB2	2:M:1107:ASN:HD22	1.85	0.41
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.55	0.41
3:N:708:LEU:HD23	3:N:708:LEU:HA	1.85	0.41
3:N:771:SER:C	9:N:9085:HOH:O	2.64	0.41
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.20	0.41
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.35	0.41
4:O:8:LYS:NZ	9:O:6477:HOH:O	2.52	0.41
4:O:45:ARG:HD2	4:O:47:LYS:CE	2.50	0.41
5:P:234:LYS:HD3	5:P:236:SER:HB3	2.02	0.41
5:P:335:ASP:OD1	5:P:335:ASP:C	2.64	0.41
1:B:99:LEU:HD12	1:B:114:PHE:CD2	2.54	0.41
2:C:45:GLN:HG2	9:C:2162:HOH:O	2.20	0.41
2:C:277:ALA:HB1	9:C:1539:HOH:O	2.21	0.41
2:C:305:PRO:HG2	9:C:1198:HOH:O	2.19	0.41
2:C:598:GLU:HG3	2:C:623:TYR:OH	2.21	0.41
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.49	0.41
2:C:841:ASN:HD22	2:C:841:ASN:C	2.28	0.41
2:C:878:SER:HA	9:D:9975:HOH:O	2.20	0.41
2:C:889:HIS:CE1	3:D:951:ILE:H	2.36	0.41
2:C:952:LEU:HD12	2:C:969:GLN:OE1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1115:LEU:CG	3:D:85:VAL:HG13	2.50	0.41
3:D:65:ARG:N	3:D:68:PHE:HZ	2.18	0.41
3:D:124:GLU:HG2	3:D:128:TYR:CE1	2.56	0.41
3:D:150:ARG:HH11	3:D:150:ARG:CG	2.30	0.41
3:D:187:LYS:HD3	3:D:187:LYS:HA	1.86	0.41
3:D:475:LYS:HA	3:D:478:LEU:HG	2.01	0.41
3:D:516:ALA:O	3:D:518:PRO:HD3	2.21	0.41
3:D:781:PRO:HG2	3:D:911:LEU:HD23	2.03	0.41
3:D:796:ARG:HA	3:D:797:LYS:HE2	2.02	0.41
3:D:799:LYS:HB3	3:D:826:PRO:HG2	2.03	0.41
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.20	0.41
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.35	0.41
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.20	0.41
3:D:1130:ARG:HH11	3:D:1130:ARG:CB	2.33	0.41
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.20	0.41
4:E:70:THR:HG22	4:E:71:GLY:N	2.35	0.41
5:F:134:LYS:NZ	9:F:799:HOH:O	2.53	0.41
5:F:208:SER:HB3	9:F:450:HOH:O	2.19	0.41
5:F:396:ARG:NH1	9:F:512:HOH:O	2.53	0.41
1:K:18:ARG:HH11	1:K:123:MET:CE	2.33	0.41
1:K:181:VAL:HG11	1:K:193:ASP:OD2	2.20	0.41
1:L:18:ARG:O	1:L:207:PRO:HD3	2.20	0.41
1:L:62:LEU:N	1:L:62:LEU:HD12	2.35	0.41
2:M:86:LYS:CE	2:M:813:VAL:HG12	2.51	0.41
2:M:106:GLY:C	2:M:107:LEU:HD23	2.45	0.41
2:M:352:ALA:O	2:M:355:VAL:HG12	2.20	0.41
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.36	0.41
2:M:654:LEU:HD21	2:M:657:ASP:OD2	2.21	0.41
2:M:691:SER:CB	2:M:858:MET:SD	3.09	0.41
2:M:748:GLU:CA	2:M:799:ILE:HG22	2.50	0.41
2:M:890:LEU:HA	2:M:914:ILE:HD13	2.01	0.41
2:M:1005:MET:HE1	3:N:648:MET:HB2	2.01	0.41
3:N:115:LEU:HD22	3:N:502:PHE:CE1	2.55	0.41
3:N:119:SER:H	3:N:123:LEU:CB	2.30	0.41
3:N:450:TYR:HD1	3:N:450:TYR:HA	1.67	0.41
3:N:462:GLN:CA	3:N:513:ILE:HD13	2.49	0.41
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.55	0.41
3:N:525:ARG:N	3:N:526:PRO:HD3	2.35	0.41
3:N:674:ARG:HB3	9:N:2271:HOH:O	2.20	0.41
3:N:679:ARG:HH21	3:N:681:ARG:HE	1.68	0.41
3:N:717:GLN:HE21	3:N:717:GLN:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.01	0.41
3:N:1048:PRO:O	3:N:1079:LYS:HE2	2.20	0.41
3:N:1290:LEU:HD11	3:N:1311:LEU:HD22	2.02	0.41
4:O:41:GLU:HB3	9:O:5925:HOH:O	2.19	0.41
5:P:392:VAL:CG1	5:P:396:ARG:HG3	2.50	0.41
1:A:111:ALA:HB3	1:A:124:ASN:O	2.20	0.41
1:B:123:MET:O	1:B:125:PRO:HD3	2.20	0.41
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.21	0.41
2:C:129:ILE:HG22	2:C:130:ASN:N	2.34	0.41
2:C:129:ILE:N	9:C:1435:HOH:O	2.54	0.41
2:C:456:ALA:HB1	2:C:538:GLN:O	2.20	0.41
2:C:591:SER:HB2	9:C:2055:HOH:O	2.20	0.41
2:C:611:ILE:HD13	2:C:625:LEU:HD11	2.02	0.41
2:C:911:GLU:O	2:C:914:ILE:HG22	2.21	0.41
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.20	0.41
2:C:1060:ILE:HD12	2:C:1063:ARG:CZ	2.50	0.41
3:D:6:ARG:HB2	3:D:6:ARG:HH11	1.85	0.41
3:D:209:ARG:HB2	3:D:395:VAL:O	2.20	0.41
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.20	0.41
3:D:661:MET:HA	3:D:666:ILE:HD12	2.02	0.41
3:D:793:THR:O	3:D:879:ARG:NH1	2.50	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.72	0.41
3:D:811:GLU:HG3	9:D:9257:HOH:O	2.20	0.41
3:D:852:ALA:HB1	3:D:857:ILE:HB	2.02	0.41
3:D:1217:ILE:HD12	3:D:1480:PHE:CE2	2.53	0.41
3:D:1236:LEU:HD11	3:D:1356:TYR:CE1	2.56	0.41
4:E:15:SER:O	4:E:18:ARG:HB3	2.21	0.41
1:K:2:LEU:O	1:K:6:LEU:HB3	2.21	0.41
1:K:119:ASP:HA	9:K:4192:HOH:O	2.20	0.41
2:M:263:ASP:C	2:M:264:PRO:O	2.62	0.41
2:M:425:PHE:CD2	2:M:425:PHE:C	2.99	0.41
2:M:442:GLU:HB3	2:M:453:THR:OG1	2.20	0.41
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.21	0.41
2:M:577:PRO:HA	2:M:993:PHE:CD2	2.55	0.41
2:M:728:HIS:C	2:M:729:LEU:HD12	2.46	0.41
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	2.03	0.41
2:M:1081:VAL:HA	9:N:9064:HOH:O	2.20	0.41
3:N:129:PHE:C	3:N:568:ARG:HH21	2.28	0.41
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.64	0.41
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.66	0.41
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:484:PRO:O	3:N:489:ARG:HD2	2.20	0.41
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.55	0.41
3:N:639:LEU:HD21	3:N:931:LEU:HD13	2.02	0.41
3:N:1168:MET:HE2	3:N:1172:HIS:NE2	2.35	0.41
3:N:1346:ARG:HG2	9:N:2202:HOH:O	2.19	0.41
3:N:1346:ARG:NH1	3:N:1346:ARG:HB2	2.36	0.41
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.20	0.41
5:P:108:GLU:OE1	5:P:108:GLU:HA	2.19	0.41
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.03	0.41
5:P:328:PHE:HD2	5:P:328:PHE:HA	1.73	0.41
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.87	0.41
1:A:211:LEU:O	1:A:215:VAL:HG13	2.20	0.41
1:B:72:LYS:HE2	1:B:131:THR:OG1	2.20	0.41
1:B:173:PRO:HB2	1:B:205:VAL:HG22	2.03	0.41
2:C:19:THR:O	2:C:19:THR:HG22	2.21	0.41
2:C:43:GLY:O	2:C:46:ALA:HB3	2.21	0.41
2:C:460:ARG:HD2	2:C:485:TYR:CE2	2.56	0.41
2:C:860:HIS:CE1	2:C:975:TYR:HB2	2.56	0.41
2:C:1012:PRO:HD3	2:C:1026:GLN:HG2	2.03	0.41
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.45	0.41
3:D:65:ARG:N	3:D:68:PHE:CZ	2.87	0.41
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.47	0.41
3:D:197:SER:HB2	3:D:205:TYR:CZ	2.56	0.41
3:D:212:ARG:NH2	9:D:2090:HOH:O	2.54	0.41
3:D:838:ARG:HH11	3:D:874:GLU:CB	2.30	0.41
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.85	0.41
3:D:1211:MET:HE3	3:D:1213:ARG:HG2	2.02	0.41
3:D:1310:ARG:HG3	3:D:1327:ARG:CZ	2.51	0.41
3:D:1356:TYR:N	3:D:1356:TYR:CD1	2.88	0.41
3:D:1498:ALA:HB2	4:E:88:GLU:OE1	2.21	0.41
1:L:150:TYR:HE2	3:N:857:ILE:HG13	1.85	0.41
1:L:212:ASN:HD22	1:L:212:ASN:HA	1.70	0.41
2:M:31:GLN:HB2	9:M:2110:HOH:O	2.20	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.55	0.41
2:M:203:ASP:HB2	9:M:1152:HOH:O	2.20	0.41
2:M:254:VAL:HA	2:M:257:VAL:HG23	2.02	0.41
2:M:425:PHE:HA	9:M:1180:HOH:O	2.18	0.41
2:M:580:MET:SD	2:M:584:GLU:HG3	2.60	0.41
2:M:615:TYR:HB2	2:M:617:ASP:OD1	2.20	0.41
2:M:677:MET:HG2	2:M:987:ILE:HG21	2.02	0.41
2:M:687:ALA:C	2:M:688:ILE:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:43:GLY:HA2	9:N:9381:HOH:O	2.20	0.41
3:N:573:MET:SD	5:P:210:LEU:HD22	2.61	0.41
3:N:584:ASN:HB3	9:N:9185:HOH:O	2.19	0.41
3:N:702:LEU:HD23	3:N:745:MET:CE	2.50	0.41
3:N:789:LEU:O	3:N:792:ILE:HG23	2.21	0.41
3:N:799:LYS:N	9:N:9025:HOH:O	2.53	0.41
3:N:853:VAL:CG2	3:N:858:VAL:HG23	2.51	0.41
3:N:1276:GLU:HG3	3:N:1303:TYR:OH	2.20	0.41
3:N:1341:PRO:O	3:N:1344:VAL:N	2.54	0.41
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.02	0.41
5:P:151:LEU:HB3	5:P:155:THR:H	1.86	0.41
5:P:209:PHE:O	5:P:213:ILE:HG13	2.20	0.41
5:P:306:GLU:O	5:P:310:ILE:HG13	2.21	0.41
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.56	0.41
1:B:67:THR:HB	1:B:74:ASP:OD1	2.20	0.41
2:C:70:GLU:O	2:C:97:ARG:HG3	2.20	0.41
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.50	0.41
2:C:189:ARG:HD2	9:C:1870:HOH:O	2.19	0.41
2:C:569:VAL:HG23	2:C:635:THR:HG22	2.02	0.41
2:C:640:ARG:CB	2:C:642:ARG:HH12	2.33	0.41
2:C:861:LEU:HD23	2:C:862:PRO:N	2.35	0.41
2:C:874:LEU:O	3:D:1029:ARG:HD2	2.20	0.41
2:C:882:LEU:HD12	3:D:1038:LEU:HD22	2.03	0.41
3:D:18:ILE:HG21	3:D:516:ALA:C	2.46	0.41
3:D:710:ARG:C	3:D:712:GLY:H	2.29	0.41
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.02	0.41
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.34	0.41
3:D:1303:TYR:HD1	3:D:1325:LEU:HD22	1.85	0.41
3:D:1353:GLN:HE21	3:D:1353:GLN:HB3	1.49	0.41
5:F:85:LEU:HD22	5:F:193:ARG:HD3	2.02	0.41
5:F:94:LEU:H	5:F:98:GLU:CD	2.28	0.41
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.35	0.41
1:L:2:LEU:HD12	1:L:3:ASP:H	1.84	0.41
2:M:59:LYS:HD2	9:M:1438:HOH:O	2.19	0.41
2:M:176:VAL:HB	9:M:1185:HOH:O	2.20	0.41
2:M:403:SER:C	2:M:407:LYS:HE3	2.45	0.41
2:M:803:THR:N	9:M:1993:HOH:O	2.53	0.41
2:M:930:LYS:HA	9:M:1237:HOH:O	2.20	0.41
3:N:219:GLU:CB	9:N:9640:HOH:O	2.69	0.41
3:N:535:PHE:N	9:P:6169:HOH:O	2.52	0.41
3:N:852:ALA:HB1	3:N:857:ILE:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.56	0.41
3:N:1299:PHE:HD2	9:N:9049:HOH:O	2.03	0.41
3:N:1311:LEU:HD12	3:N:1313:VAL:O	2.19	0.41
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.51	0.41
3:N:1489:GLN:HB3	9:N:9105:HOH:O	2.20	0.41
4:O:72:ARG:NH2	9:O:5523:HOH:O	2.54	0.41
5:P:140:ARG:O	5:P:144:ILE:HG13	2.21	0.41
5:P:171:LYS:HG3	5:P:175:HIS:NE2	2.35	0.41
5:P:370:LYS:NZ	5:P:370:LYS:HB3	2.36	0.41
1:A:151:VAL:HB	1:A:169:ALA:HB3	2.02	0.41
2:C:8:ARG:HH11	2:C:10:ARG:HH21	1.67	0.41
2:C:66:LEU:CD2	2:C:372:LEU:HD23	2.41	0.41
2:C:280:LYS:HG2	9:C:1148:HOH:O	2.21	0.41
2:C:811:PRO:HD2	2:C:813:VAL:HG13	2.02	0.41
2:C:831:ARG:HA	9:C:1793:HOH:O	2.20	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.21	0.41
9:C:1126:HOH:O	3:D:943:THR:HG21	2.20	0.41
3:D:83:SER:HA	9:D:9087:HOH:O	2.20	0.41
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.51	0.41
3:D:629:SER:CA	9:D:9834:HOH:O	2.68	0.41
3:D:982:PHE:N	3:D:982:PHE:CD1	2.88	0.41
3:D:1491:THR:O	3:D:1491:THR:HG22	2.21	0.41
4:E:51:LEU:HB3	9:E:196:HOH:O	2.20	0.41
5:F:163:LEU:HD13	5:F:174:LEU:HD21	2.03	0.41
5:F:256:ARG:NH2	5:F:310:ILE:O	2.53	0.41
5:F:423:ASP:HB2	9:F:809:HOH:O	2.20	0.41
1:K:88:ARG:HB3	9:K:4125:HOH:O	2.19	0.41
1:K:215:VAL:HG12	1:L:222:LEU:HD22	2.03	0.41
1:L:56:VAL:HG13	9:L:3859:HOH:O	2.20	0.41
2:M:30:LEU:O	2:M:30:LEU:HD12	2.20	0.41
2:M:305:PRO:CB	2:M:308:ARG:HH21	2.33	0.41
2:M:391:LEU:HD23	2:M:391:LEU:C	2.46	0.41
2:M:713:ARG:HB2	9:M:1832:HOH:O	2.19	0.41
2:M:897:LEU:CD2	2:M:920:GLN:HE21	2.27	0.41
2:M:999:HIS:HD2	9:M:1959:HOH:O	2.03	0.41
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.53	0.41
3:N:39:PRO:HD2	9:N:9418:HOH:O	2.19	0.41
3:N:60:CYS:HB2	9:N:9577:HOH:O	2.21	0.41
3:N:178:LEU:HA	3:N:181:ASP:OD2	2.21	0.41
3:N:448:GLU:HG2	9:N:9364:HOH:O	2.19	0.41
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:583:ASP:OD1	3:N:583:ASP:C	2.64	0.41
3:N:601:ARG:HG2	3:N:606:ILE:HD13	2.01	0.41
3:N:893:GLU:O	3:N:896:ALA:HB3	2.21	0.41
3:N:1004:THR:HG21	9:N:9020:HOH:O	2.21	0.41
3:N:1195:GLN:HG3	9:N:2044:HOH:O	2.21	0.41
3:N:1328:GLY:HA3	9:N:9396:HOH:O	2.20	0.41
3:N:1344:VAL:O	3:N:1345:GLU:C	2.64	0.41
4:O:26:ARG:CZ	4:O:73:LEU:HD21	2.50	0.41
5:P:218:GLN:HB3	9:P:6496:HOH:O	2.19	0.41
5:P:278:LEU:O	5:P:282:LEU:HD12	2.21	0.41
1:A:127:LEU:HD11	1:A:129:ILE:HD13	2.03	0.41
1:B:81:ASN:O	1:B:84:GLU:HB3	2.20	0.41
1:B:164:ALA:HB3	9:B:393:HOH:O	2.21	0.41
2:C:186:VAL:HG23	2:C:187:ASN:N	2.27	0.41
2:C:212:GLY:O	2:C:215:GLY:O	2.38	0.41
2:C:267:TYR:HB2	2:C:272:ALA:HB1	2.03	0.41
2:C:438:ILE:HD11	2:C:467:ILE:HD12	2.02	0.41
2:C:474:VAL:HG13	2:C:530:GLU:O	2.21	0.41
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.45	0.41
2:C:586:ARG:HG2	9:C:1254:HOH:O	2.21	0.41
2:C:607:ASP:HB3	2:C:609:ASN:H	1.84	0.41
2:C:663:ASN:C	2:C:665:PHE:H	2.29	0.41
2:C:688:ILE:HD13	2:C:847:GLY:C	2.45	0.41
2:C:708:TYR:CD1	2:C:708:TYR:N	2.87	0.41
2:C:769:PRO:HG3	9:F:775:HOH:O	2.20	0.41
2:C:834:GLN:HE21	2:C:834:GLN:HB2	1.66	0.41
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.51	0.41
2:C:1036:GLU:HG2	3:D:703:ASN:OD1	2.20	0.41
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.41
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	2.02	0.41
2:C:1109:VAL:HG23	3:D:3:LYS:CG	2.43	0.41
3:D:74:GLU:HB3	9:D:9568:HOH:O	2.21	0.41
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.86	0.41
3:D:122:GLU:O	3:D:126:VAL:HG23	2.21	0.41
3:D:159:ARG:NH1	3:D:159:ARG:HB2	2.35	0.41
3:D:179:VAL:HG13	3:D:389:GLU:HG3	2.03	0.41
3:D:465:LEU:CD1	3:D:513:ILE:HD11	2.51	0.41
3:D:517:VAL:N	9:D:9427:HOH:O	2.53	0.41
3:D:824:ASN:HD22	3:D:824:ASN:HA	1.63	0.41
3:D:838:ARG:HE	3:D:838:ARG:HB2	1.62	0.41
3:D:844:ALA:O	3:D:867:ARG:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.55	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.72	0.41
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.35	0.41
3:D:1380:GLU:HB2	3:D:1420:LEU:HD23	2.03	0.41
3:D:1503:VAL:HA	9:D:2114:HOH:O	2.21	0.41
4:E:54:LEU:HG	4:E:58:PRO:HD2	2.03	0.41
5:F:117:SER:CB	5:F:124:PRO:HG3	2.51	0.41
5:F:123:ASP:H	5:F:126:LEU:HD22	1.85	0.41
5:F:287:THR:C	5:F:289:GLU:N	2.77	0.41
5:F:291:ILE:HG23	5:F:292:ALA:N	2.36	0.41
5:F:385:GLU:HA	9:F:553:HOH:O	2.21	0.41
1:K:37:GLY:HA3	1:K:179:PHE:CD1	2.56	0.41
1:K:149:GLY:C	9:K:3798:HOH:O	2.63	0.41
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.21	0.41
2:M:83:CYS:SG	2:M:88:LEU:HD23	2.61	0.41
2:M:139:GLN:HB3	2:M:334:ARG:HD3	2.03	0.41
2:M:164:PRO:HG2	9:M:1133:HOH:O	2.21	0.41
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.19	0.41
2:M:264:PRO:HD2	9:M:1477:HOH:O	2.19	0.41
2:M:387:SER:C	2:M:388:ARG:HD3	2.46	0.41
2:M:441:VAL:O	2:M:559:LEU:HD12	2.20	0.41
2:M:537:LYS:CB	2:M:545:ASN:HD21	2.33	0.41
2:M:578:VAL:HG22	2:M:671:ASN:HD21	1.86	0.41
2:M:626:ARG:CB	2:M:626:ARG:HH11	2.34	0.41
2:M:679:PHE:O	2:M:680:ASP:C	2.63	0.41
2:M:771:GLU:O	2:M:775:ARG:HG2	2.21	0.41
2:M:816:LYS:O	2:M:819:VAL:HB	2.21	0.41
2:M:943:VAL:HG11	2:M:973:VAL:CG2	2.51	0.41
2:M:1008:ARG:NH1	2:M:1020:PRO:HB3	2.35	0.41
2:M:1075:ASP:OD1	3:N:753:SER:HB2	2.21	0.41
9:M:1261:HOH:O	3:N:1079:LYS:HG3	2.21	0.41
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.36	0.41
3:N:89:ARG:O	3:N:521:PRO:HG3	2.20	0.41
3:N:93:ILE:HD13	3:N:548:ILE:HD11	2.03	0.41
3:N:116:LEU:HB3	3:N:118:LEU:HG	2.03	0.41
3:N:129:PHE:HB3	3:N:587:ARG:NH2	2.36	0.41
3:N:133:ILE:HD12	3:N:454:ALA:HB1	2.02	0.41
3:N:462:GLN:CB	3:N:513:ILE:HD13	2.51	0.41
3:N:462:GLN:CG	3:N:513:ILE:HD13	2.50	0.41
3:N:482:LYS:HG2	9:N:9544:HOH:O	2.21	0.41
3:N:566:ILE:CG1	5:P:217:ASN:HD22	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:676:MET:HG3	9:N:9565:HOH:O	2.20	0.41
3:N:780:LYS:HD2	9:N:9812:HOH:O	2.20	0.41
3:N:924:MET:N	4:O:7:ASP:OD2	2.54	0.41
3:N:924:MET:HB2	4:O:7:ASP:OD1	2.21	0.41
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.55	0.41
3:N:1012:GLU:HG3	9:N:9072:HOH:O	2.21	0.41
3:N:1237:THR:HG22	3:N:1238:MET:N	2.35	0.41
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.56	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.21	0.41
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.22	0.41
3:N:1398:TRP:HZ3	3:N:1401:GLU:OE2	2.04	0.41
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.83	0.41
4:O:72:ARG:HG2	4:O:72:ARG:HH11	1.85	0.41
1:A:76:VAL:HA	1:A:79:ILE:CG1	2.50	0.41
1:B:13:VAL:HG12	1:B:14:ARG:N	2.35	0.41
2:C:269:LEU:HD11	9:C:1386:HOH:O	2.19	0.41
2:C:358:ARG:HH12	2:C:374:ASN:CB	2.34	0.41
2:C:681:GLY:C	3:D:635:PRO:HG2	2.46	0.41
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.56	0.41
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.56	0.41
3:D:36:THR:C	3:D:38:LYS:N	2.74	0.41
3:D:47:GLU:OE1	3:D:53:ILE:HG22	2.21	0.41
3:D:93:ILE:HG22	3:D:551:ASN:ND2	2.36	0.41
3:D:95:LEU:CD2	3:D:574:LEU:HD11	2.51	0.41
3:D:126:VAL:O	3:D:132:TYR:CD1	2.73	0.41
3:D:658:LEU:O	3:D:661:MET:HB2	2.21	0.41
3:D:696:HIS:HB3	9:D:9044:HOH:O	2.21	0.41
3:D:702:LEU:HB3	3:D:745:MET:CE	2.49	0.41
3:D:1031:ASN:O	3:D:1032:PRO:C	2.64	0.41
3:D:1045:MET:HA	3:D:1045:MET:CE	2.49	0.41
3:D:1045:MET:O	3:D:1053:PHE:HD1	2.03	0.41
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.21	0.41
3:D:1326:THR:CA	9:D:9040:HOH:O	2.69	0.41
3:D:1420:LEU:HD13	3:D:1421:LEU:N	2.36	0.41
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.87	0.41
5:F:123:ASP:HB3	5:F:125:ASP:OD1	2.21	0.41
5:F:363:GLU:C	5:F:367:MET:HG2	2.46	0.41
1:K:98:THR:N	9:K:3519:HOH:O	2.54	0.41
1:L:143:ARG:HH11	1:L:158:ILE:CG2	2.32	0.41
2:M:141:HIS:O	2:M:332:ARG:N	2.40	0.41
2:M:321:GLU:HG3	9:M:1256:HOH:O	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:490:GLU:CD	9:M:2031:HOH:O	2.64	0.41
2:M:544:THR:O	2:M:547:ILE:HG13	2.20	0.41
2:M:546:LEU:HA	2:M:581:THR:OG1	2.20	0.41
2:M:571:LEU:CD2	2:M:669:GLY:HA2	2.50	0.41
2:M:571:LEU:HD12	2:M:701:THR:N	2.36	0.41
2:M:1065:ALA:HB3	2:M:1077:PRO:HG2	2.02	0.41
2:M:1101:THR:HB	3:N:5:VAL:HG13	2.01	0.41
3:N:177:ALA:HB1	3:N:199:LEU:HD22	2.03	0.41
3:N:196:VAL:HG13	3:N:202:VAL:HG11	2.02	0.41
3:N:214:GLU:HB3	9:N:9687:HOH:O	2.21	0.41
3:N:408:GLU:H	3:N:408:GLU:HG3	1.59	0.41
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.56	0.41
3:N:572:ARG:HH11	5:P:80:PRO:HD3	1.83	0.41
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.51	0.41
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.56	0.41
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.50	0.41
3:N:1112:CYS:HB2	3:N:1195:GLN:NE2	2.36	0.41
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.21	0.41
5:P:79:ASP:HB3	5:P:80:PRO:HD2	2.03	0.41
1:A:42:ARG:NH1	1:A:42:ARG:HG2	2.35	0.40
1:A:206:THR:HG23	1:A:209:GLU:H	1.84	0.40
1:B:59:GLU:HG3	1:B:139:ASN:ND2	2.35	0.40
2:C:193:LEU:HD23	2:C:307:LEU:CD1	2.51	0.40
2:C:504:GLU:HG2	2:C:507:ARG:HB2	2.02	0.40
2:C:603:VAL:O	2:C:646:GLY:HA2	2.21	0.40
2:C:671:ASN:ND2	2:C:671:ASN:H	2.16	0.40
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.22	0.40
3:D:17:LYS:HA	9:D:9899:HOH:O	2.21	0.40
3:D:28:LYS:HD2	3:D:552:ASN:HD21	1.86	0.40
3:D:55:ASP:HA	3:D:82:LYS:CG	2.45	0.40
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.36	0.40
3:D:174:GLY:HA3	9:D:9151:HOH:O	2.21	0.40
3:D:475:LYS:HG3	9:D:9720:HOH:O	2.21	0.40
3:D:584:ASN:HB3	9:D:9910:HOH:O	2.20	0.40
3:D:764:LEU:HG	3:D:765:SER:N	2.36	0.40
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.02	0.40
3:D:1061:PHE:CE1	3:D:1065:LEU:HD23	2.53	0.40
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.35	0.40
5:F:79:ASP:HB3	5:F:80:PRO:HD3	2.04	0.40
5:F:119:ILE:HA	9:F:584:HOH:O	2.20	0.40
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:94:LEU:HD21	1:K:119:ASP:HB2	2.03	0.40
2:M:144:PRO:HA	2:M:163:ILE:HD11	2.02	0.40
2:M:253:ALA:N	9:M:2036:HOH:O	2.51	0.40
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.50	0.40
2:M:430:VAL:HG13	2:M:430:VAL:O	2.21	0.40
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.47	0.40
2:M:564:MET:SD	2:M:846:LYS:HD2	2.60	0.40
2:M:676:ILE:HG22	2:M:988:VAL:HG22	2.03	0.40
2:M:897:LEU:CD1	2:M:921:ALA:HA	2.51	0.40
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.51	0.40
3:N:470:LEU:HD11	3:N:509:PRO:HG3	2.04	0.40
3:N:742:GLY:HA3	9:N:9339:HOH:O	2.20	0.40
3:N:1000:THR:HB	9:N:9990:HOH:O	2.20	0.40
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.29	0.40
3:N:1301:LYS:HD2	3:N:1301:LYS:HA	1.79	0.40
5:P:225:GLU:OE1	5:P:226:LYS:HE2	2.21	0.40
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.50	0.40
1:B:10:VAL:HG11	9:B:492:HOH:O	2.20	0.40
2:C:8:ARG:HB3	9:C:2005:HOH:O	2.20	0.40
2:C:8:ARG:N	9:C:1239:HOH:O	2.55	0.40
2:C:47:ALA:O	2:C:50:GLU:HB3	2.21	0.40
2:C:169:GLY:HA3	9:C:1751:HOH:O	2.20	0.40
2:C:243:ARG:HB3	9:C:1299:HOH:O	2.22	0.40
2:C:244:PRO:HD2	2:C:245:GLY:N	2.24	0.40
2:C:691:SER:HB3	2:C:868:ASP:HA	2.04	0.40
2:C:707:ARG:HD2	9:C:1247:HOH:O	2.20	0.40
2:C:1085:PHE:HE1	2:C:1111:ILE:HG21	1.86	0.40
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.56	0.40
3:D:127:LEU:HD12	3:D:127:LEU:C	2.47	0.40
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.04	0.40
3:D:601:ARG:NH1	5:F:328:PHE:CD1	2.89	0.40
3:D:799:LYS:N	3:D:826:PRO:HG2	2.35	0.40
3:D:814:ALA:HB3	9:D:9257:HOH:O	2.21	0.40
3:D:860:LEU:HD22	3:D:878:GLY:HA2	2.02	0.40
3:D:1147:ARG:HD2	3:D:1188:VAL:CG2	2.51	0.40
3:D:1306:PRO:HG3	9:D:9022:HOH:O	2.20	0.40
3:D:1420:LEU:HD13	3:D:1421:LEU:H	1.85	0.40
5:F:109:GLY:O	5:F:113:ILE:HG13	2.21	0.40
5:F:273:ARG:O	5:F:276:ARG:HB2	2.21	0.40
1:K:23:PHE:CD1	1:K:211:LEU:HD23	2.57	0.40
2:M:51:THR:HB	2:M:348:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:305:PRO:HB3	2:M:308:ARG:NH2	2.36	0.40
2:M:682:TYR:HB3	2:M:689:VAL:HG22	2.02	0.40
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.36	0.40
3:N:27:GLU:O	3:N:28:LYS:HD3	2.21	0.40
3:N:1192:LEU:HD22	3:N:1345:GLU:CD	2.46	0.40
3:N:1223:ILE:O	3:N:1224:VAL:C	2.65	0.40
5:P:235:PHE:HB2	9:P:4703:HOH:O	2.21	0.40
1:A:69:PRO:O	1:A:71:VAL:HG23	2.21	0.40
1:A:81:ASN:HA	9:A:321:HOH:O	2.20	0.40
2:C:34:VAL:HG22	9:C:1963:HOH:O	2.22	0.40
2:C:663:ASN:HB3	9:C:1567:HOH:O	2.21	0.40
3:D:36:THR:HA	9:D:9305:HOH:O	2.21	0.40
3:D:112:ILE:HG12	3:D:128:TYR:OH	2.21	0.40
3:D:138:LYS:HG2	9:D:9491:HOH:O	2.21	0.40
3:D:491:LYS:HB2	9:D:2025:HOH:O	2.21	0.40
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.52	0.40
3:D:646:LYS:NZ	3:D:688:TRP:NE1	2.69	0.40
3:D:704:ARG:HA	3:D:704:ARG:HD2	1.90	0.40
3:D:984:THR:HG22	3:D:987:GLU:OE2	2.21	0.40
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	2.02	0.40
3:D:1057:VAL:HG23	9:D:9034:HOH:O	2.21	0.40
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.57	0.40
3:D:1223:ILE:O	3:D:1224:VAL:C	2.64	0.40
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.21	0.40
5:F:279:GLN:NE2	9:F:586:HOH:O	2.53	0.40
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.54	0.40
1:K:206:THR:HG22	1:K:209:GLU:OE1	2.22	0.40
1:L:31:GLY:HA3	9:L:4517:HOH:O	2.20	0.40
1:L:41:ARG:HD3	9:L:3689:HOH:O	2.20	0.40
2:M:92:ALA:HA	2:M:93:PRO:HD3	1.95	0.40
2:M:196:LEU:HD22	2:M:303:PHE:CD2	2.55	0.40
2:M:433:THR:HA	9:M:1375:HOH:O	2.21	0.40
2:M:596:TYR:HB2	9:M:1449:HOH:O	2.22	0.40
2:M:720:GLU:HG2	2:M:760:SER:HB3	2.03	0.40
2:M:811:PRO:HD3	9:M:1239:HOH:O	2.22	0.40
2:M:1092:LEU:HD21	3:N:1447:LEU:HD21	2.04	0.40
3:N:37:LEU:HD23	9:N:9522:HOH:O	2.22	0.40
3:N:168:THR:OG1	3:N:393:ILE:HB	2.22	0.40
3:N:213:VAL:HG22	3:N:214:GLU:H	1.86	0.40
3:N:411:THR:HG23	3:N:429:SER:OG	2.21	0.40
3:N:427:VAL:HB	3:N:435:VAL:HG23	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:551:ASN:O	3:N:554:LEU:HB3	2.21	0.40
3:N:782:SER:O	3:N:786:ILE:HG13	2.22	0.40
3:N:847:ASP:HA	3:N:850:LEU:CD1	2.50	0.40
3:N:992:ILE:O	3:N:995:LEU:HB3	2.21	0.40
3:N:1155:VAL:CG1	3:N:1177:ALA:HB1	2.51	0.40
3:N:1282:ARG:CZ	3:N:1282:ARG:HB3	2.52	0.40
9:N:2191:HOH:O	5:P:225:GLU:HB2	2.21	0.40
5:P:234:LYS:H	5:P:234:LYS:HG3	1.64	0.40
5:P:421:PHE:C	5:P:423:ASP:H	2.28	0.40
1:A:184:THR:O	1:A:192:LEU:HG	2.21	0.40
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.51	0.40
1:B:95:GLN:HE21	1:B:95:GLN:HB2	1.63	0.40
1:B:111:ALA:HB3	1:B:124:ASN:O	2.21	0.40
2:C:127:PHE:C	2:C:128:ILE:HG13	2.46	0.40
2:C:136:ILE:HG12	2:C:392:SER:OG	2.20	0.40
2:C:327:HIS:O	2:C:330:ASN:HB2	2.22	0.40
2:C:630:ARG:NH2	2:C:705:ILE:C	2.79	0.40
9:C:1791:HOH:O	3:D:13:ALA:N	2.53	0.40
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.52	0.40
3:D:170:PRO:HG3	9:D:9689:HOH:O	2.20	0.40
3:D:178:LEU:CG	3:D:200:ASP:H	2.31	0.40
3:D:501:ALA:HB1	3:D:1453:ALA:HA	2.03	0.40
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.40
3:D:570:GLU:HG2	9:D:9564:HOH:O	2.21	0.40
3:D:1139:ASP:OD1	3:D:1357:ARG:NE	2.54	0.40
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.22	0.40
4:E:61:GLU:OE2	4:E:62:THR:N	2.54	0.40
5:F:217:ASN:O	5:F:221:ILE:HG13	2.21	0.40
5:F:266:GLU:O	5:F:270:LYS:HG2	2.21	0.40
5:F:325:LYS:HA	9:F:599:HOH:O	2.21	0.40
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.86	0.40
1:K:42:ARG:HH11	1:K:42:ARG:HG2	1.87	0.40
1:K:114:PHE:HE2	1:K:142:VAL:HG13	1.87	0.40
2:M:26:TYR:HD2	2:M:121:MET:HB2	1.87	0.40
2:M:53:PRO:HG2	9:M:1765:HOH:O	2.21	0.40
2:M:78:PHE:HB3	2:M:79:PRO:HD2	2.03	0.40
2:M:212:GLY:O	2:M:215:GLY:O	2.39	0.40
2:M:313:LEU:HD23	2:M:314:THR:HG23	2.03	0.40
2:M:372:LEU:HD22	9:M:1901:HOH:O	2.21	0.40
2:M:487:THR:HG22	2:M:488:ALA:N	2.37	0.40
2:M:544:THR:HA	2:M:562:SER:OG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1081:VAL:HG22	9:M:1596:HOH:O	2.21	0.40
3:N:423:ASP:OD2	5:P:174:LEU:C	2.65	0.40
3:N:456:MET:HE2	9:N:9380:HOH:O	2.21	0.40
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.56	0.40
3:N:796:ARG:HD3	3:N:861:GLN:HB2	2.02	0.40
3:N:867:ARG:NH1	9:N:9385:HOH:O	2.47	0.40
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.56	0.40
3:N:1319:VAL:O	3:N:1319:VAL:HG23	2.21	0.40
3:N:1470:ARG:NE	9:N:9305:HOH:O	2.54	0.40
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.85	0.40
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.21	0.40
1:A:29:GLU:O	1:A:193:ASP:OD1	2.40	0.40
2:C:282:GLY:HA3	9:C:1198:HOH:O	2.21	0.40
2:C:376:ARG:HG3	9:C:2017:HOH:O	2.21	0.40
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.93	0.40
2:C:639:GLN:HA	2:C:657:ASP:O	2.22	0.40
2:C:976:ASP:HB2	2:C:979:THR:HG22	2.02	0.40
2:C:1090:LYS:NZ	3:D:90:MET:CG	2.84	0.40
3:D:26:VAL:HG23	9:D:9002:HOH:O	2.22	0.40
3:D:148:GLU:HG2	3:D:151:GLN:HB2	2.02	0.40
3:D:178:LEU:HD12	3:D:200:ASP:HB2	2.03	0.40
3:D:398:ALA:C	9:D:9673:HOH:O	2.64	0.40
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.36	0.40
3:D:601:ARG:NE	3:D:606:ILE:HD13	2.37	0.40
3:D:699:VAL:HB	3:D:716:PHE:O	2.22	0.40
3:D:1156:LEU:CD1	3:D:1176:LYS:HD2	2.52	0.40
3:D:1293:PHE:HD2	9:D:2310:HOH:O	2.05	0.40
3:D:1480:PHE:CD1	3:D:1480:PHE:O	2.75	0.40
5:F:148:LYS:HG2	9:F:557:HOH:O	2.21	0.40
5:F:418:LEU:HD12	5:F:418:LEU:N	2.36	0.40
1:K:18:ARG:HG3	1:K:123:MET:CE	2.51	0.40
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.95	0.40
1:K:184:THR:HG23	1:K:192:LEU:CB	2.52	0.40
1:K:219:ARG:NH2	1:L:223:THR:HG22	2.17	0.40
1:L:89:PHE:CZ	1:L:146:ARG:HB3	2.56	0.40
1:L:103:ALA:O	1:L:138:LEU:HD23	2.21	0.40
2:M:195:LEU:CD1	2:M:234:ALA:HB1	2.50	0.40
2:M:201:GLY:HA2	9:M:1944:HOH:O	2.20	0.40
2:M:214:TYR:HB2	9:M:1137:HOH:O	2.20	0.40
2:M:304:LEU:O	2:M:308:ARG:HB2	2.21	0.40
2:M:517:ARG:HD2	2:M:517:ARG:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:553:ASP:O	3:N:1070:TYR:CE2	2.74	0.40
2:M:620:LEU:HD22	2:M:620:LEU:H	1.85	0.40
2:M:760:SER:O	2:M:785:VAL:HG22	2.21	0.40
3:N:540:LEU:HG	3:N:544:TYR:CE2	2.57	0.40
3:N:885:ILE:HG13	9:N:9120:HOH:O	2.20	0.40
3:N:983:LEU:N	9:N:2283:HOH:O	2.53	0.40
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.21	0.40
3:N:1341:PRO:C	3:N:1343:ALA:N	2.80	0.40
4:O:81:PRO:HB3	9:O:3838:HOH:O	2.22	0.40
5:P:77:THR:O	5:P:81:VAL:HG23	2.22	0.40
5:P:294:ALA:HA	9:P:5719:HOH:O	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	5	6
1	B	227/315 (72%)	200 (88%)	21 (9%)	6 (3%)	4	4
1	K	227/315 (72%)	200 (88%)	24 (11%)	3 (1%)	9	14
1	L	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	6	9
2	C	1117/1119 (100%)	924 (83%)	143 (13%)	50 (4%)	2	1
2	M	1117/1119 (100%)	920 (82%)	149 (13%)	48 (4%)	2	1
3	D	1375/1524 (90%)	1129 (82%)	186 (14%)	60 (4%)	2	1
3	N	1375/1524 (90%)	1129 (82%)	181 (13%)	65 (5%)	2	1
4	E	93/99 (94%)	73 (78%)	16 (17%)	4 (4%)	2	1
4	O	93/99 (94%)	73 (78%)	16 (17%)	4 (4%)	2	1
5	F	341/423 (81%)	288 (84%)	42 (12%)	11 (3%)	3	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	P	341/423 (81%)	291 (85%)	37 (11%)	13 (4%)	2	2
All	All	6760/7590 (89%)	5632 (83%)	855 (13%)	273 (4%)	2	2

All (273) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	369	PRO
2	C	442	GLU
2	C	447	ALA
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	908	GLY
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	385	VAL
3	D	440	VAL
3	D	705	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1066	THR
3	D	1129	THR
3	D	1208	ASP
3	D	1236	LEU

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Mol	Chain	Res	Type
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	288	ARG
2	M	290	LEU
2	M	369	PRO
2	M	442	GLU
2	M	447	ALA
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	864	GLY
2	M	908	GLY
2	M	1106	ASP
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	440	VAL
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1441	GLN

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Mol	Chain	Res	Type
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	164	PRO
2	C	261	ILE
2	C	290	LEU
2	C	400	PRO
2	C	413	LEU
2	C	425	PHE
2	C	448	ASN
2	C	626	ARG
2	C	627	ARG
2	C	680	ASP
2	C	864	GLY
2	C	1106	ASP
3	D	31	THR
3	D	98	PRO
3	D	231	VAL
3	D	381	ALA
3	D	417	PRO
3	D	504	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	822	ALA
3	D	1213	ARG
4	E	53	GLY
5	F	324	GLU
5	F	325	LYS
5	F	341	PRO
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	413	LEU
2	M	425	PHE

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Mol	Chain	Res	Type
2	M	626	ARG
2	M	680	ASP
3	N	31	THR
3	N	96	ALA
3	N	231	VAL
3	N	381	ALA
3	N	417	PRO
3	N	504	ASP
3	N	594	PRO
3	N	609	GLY
3	N	705	ALA
3	N	766	ALA
3	N	803	GLY
3	N	822	ALA
3	N	1066	THR
3	N	1213	ARG
3	N	1236	LEU
4	O	53	GLY
5	P	288	TYR
5	P	324	GLU
5	P	325	LYS
5	P	341	PRO
2	C	74	GLY
2	C	144	PRO
2	C	170	PRO
2	C	363	SER
2	C	517	ARG
2	C	727	PRO
2	C	781	LYS
2	C	1004	LYS
3	D	37	LEU
3	D	96	ALA
3	D	170	PRO
3	D	424	GLY
3	D	782	SER
3	D	1286	THR
5	F	286	PRO
5	F	288	TYR
5	F	420	ASP
2	M	74	GLY
2	M	164	PRO
2	M	251	ASP

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Mol	Chain	Res	Type
2	M	261	ILE
2	M	282	GLY
2	M	363	SER
2	M	448	ASN
2	M	517	ARG
2	M	627	ARG
2	M	727	PRO
2	M	781	LYS
3	N	37	LEU
3	N	82	LYS
3	N	98	PRO
3	N	170	PRO
3	N	424	GLY
3	N	782	SER
3	N	1286	THR
3	N	1342	GLU
3	N	1385	GLY
5	P	286	PRO
1	A	106	PRO
2	C	180	GLY
2	C	251	ASP
2	C	457	ALA
2	C	598	GLU
2	C	1097	LEU
3	D	120	ALA
3	D	387	LEU
3	D	415	VAL
3	D	416	ALA
3	D	451	ASP
3	D	522	PRO
3	D	530	VAL
3	D	766	ALA
3	D	808	THR
3	D	1385	GLY
3	D	1432	LYS
1	K	106	PRO
1	L	106	PRO
2	M	170	PRO
2	M	180	GLY
2	M	223	ASP
2	M	457	ALA
3	N	120	ALA

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Mol	Chain	Res	Type
3	N	415	VAL
3	N	416	ALA
3	N	522	PRO
3	N	533	GLY
3	N	808	THR
5	P	232	ARG
5	P	416	ARG
1	A	188	GLN
1	B	106	PRO
1	B	188	GLN
2	C	1059	ASP
2	C	1079	PRO
3	D	69	GLU
5	F	167	PRO
2	M	529	VAL
2	M	1079	PRO
3	N	387	LEU
3	N	526	PRO
3	N	530	VAL
3	N	1389	LEU
3	N	1432	LYS
5	P	420	ASP
2	C	415	PRO
2	C	434	HIS
2	C	529	VAL
2	M	40	GLU
2	M	453	THR
2	M	1059	ASP
2	M	1097	LEU
3	N	110	SER
3	N	136	ASP
3	N	173	PRO
3	N	1064	GLY
3	N	1341	PRO
3	N	1349	VAL
5	P	167	PRO
1	A	9	PRO
2	C	282	GLY
2	C	779	GLY
3	D	136	ASP
3	D	526	PRO
3	D	1267	ARG

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Mol	Chain	Res	Type
2	M	779	GLY
2	C	79	PRO
3	D	368	VAL
3	D	509	PRO
3	D	1306	PRO
5	F	297	PRO
2	M	400	PRO
3	N	368	VAL
3	N	1306	PRO
1	B	9	PRO
3	D	521	PRO
4	E	5	GLY
2	M	415	PRO
4	O	5	GLY
5	P	297	PRO
2	C	53	PRO
3	D	173	PRO
3	D	670	VAL
2	M	79	PRO
2	M	317	VAL
2	M	444	PRO
3	N	509	PRO
3	N	1413	THR
2	C	377	PRO
2	C	767	PRO
1	L	9	PRO
3	N	169	TYR

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 X-ray entries followed by that with respect to entries of similar resolution.

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	202/273 (74%)	157 (78%)	45 (22%)	1	1
1	B	202/273 (74%)	160 (79%)	42 (21%)	1	1
1	K	202/273 (74%)	158 (78%)	44 (22%)	1	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	L	202/273 (74%)	159 (79%)	43 (21%)	1	1
2	C	941/941 (100%)	719 (76%)	222 (24%)	1	1
2	M	941/941 (100%)	711 (76%)	230 (24%)	1	1
3	D	1118/1279 (87%)	828 (74%)	290 (26%)	0	0
3	N	1118/1279 (87%)	842 (75%)	276 (25%)	1	1
4	E	83/87 (95%)	67 (81%)	16 (19%)	1	2
4	O	83/87 (95%)	66 (80%)	17 (20%)	1	1
5	F	295/370 (80%)	227 (77%)	68 (23%)	1	1
5	P	295/370 (80%)	239 (81%)	56 (19%)	1	2
All	All	5682/6446 (88%)	4333 (76%)	1349 (24%)	1	1

All (1349) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	26	GLU
1	A	44	LEU
1	A	45	LEU
1	A	47	SER
1	A	73	GLU
1	A	74	ASP
1	A	89	PHE
1	A	92	PRO
1	A	96	THR
1	A	100	LEU
1	A	101	LEU
1	A	104	GLU
1	A	120	VAL
1	A	122	ILE
1	A	126	ASP
1	A	127	LEU
1	A	137	ARG
1	A	138	LEU
1	A	139	ASN
1	A	142	VAL

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Mol	Chain	Res	Type
1	A	143	ARG
1	A	161	ARG
1	A	163	ASN
1	A	166	PRO
1	A	167	VAL
1	A	170	VAL
1	A	180	GLN
1	A	184	THR
1	A	186	LEU
1	A	188	GLN
1	A	191	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	205	VAL
1	A	211	LEU
1	A	216	GLU
1	A	222	LEU
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	9	PRO
1	B	25	LEU
1	B	26	GLU
1	B	30	ARG
1	B	38	ASN
1	B	44	LEU
1	B	62	LEU
1	B	64	GLU
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	81	ASN
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	99	LEU
1	B	100	LEU
1	B	101	LEU

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Mol	Chain	Res	Type
1	B	110	LYS
1	B	112	ARG
1	B	126	ASP
1	B	131	THR
1	B	138	LEU
1	B	140	MET
1	B	141	GLU
1	B	158	ILE
1	B	159	LYS
1	B	162	ILE
1	B	176	ARG
1	B	185	ARG
1	B	194	LYS
1	B	196	THR
1	B	200	TRP
1	B	201	THR
1	B	202	ASP
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
2	C	5	ARG
2	C	9	ILE
2	C	10	ARG
2	C	15	LEU
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	71	TYR
2	C	79	PRO
2	C	89	THR
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	102	HIS
2	C	104	ASP
2	C	108	ILE

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Mol	Chain	Res	Type
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	133	ASP
2	C	140	ILE
2	C	150	PRO
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	177	GLU
2	C	178	PRO
2	C	194	VAL
2	C	196	LEU
2	C	199	VAL
2	C	205	GLU
2	C	209	ARG
2	C	218	VAL
2	C	221	LEU
2	C	226	VAL
2	C	229	MET
2	C	235	LEU
2	C	237	ARG
2	C	238	LEU
2	C	250	ARG
2	C	252	LYS
2	C	254	VAL
2	C	257	VAL
2	C	260	LEU
2	C	267	TYR
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	301	GLU
2	C	303	PHE

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Mol	Chain	Res	Type
2	C	304	LEU
2	C	321	GLU
2	C	327	HIS
2	C	331	ARG
2	C	339	LEU
2	C	343	GLN
2	C	350	ARG
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	367	LEU
2	C	379	GLU
2	C	384	GLU
2	C	387	SER
2	C	392	SER
2	C	393	GLN
2	C	396	ASP
2	C	399	ASN
2	C	400	PRO
2	C	402	SER
2	C	415	PRO
2	C	418	LEU
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	422	ARG
2	C	430	VAL
2	C	432	ARG
2	C	442	GLU
2	C	443	THR
2	C	445	GLU
2	C	452	ILE
2	C	469	THR
2	C	473	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	487	THR
2	C	500	ASN
2	C	503	LEU
2	C	504	GLU
2	C	508	ILE

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Mol	Chain	Res	Type
2	C	524	VAL
2	C	527	GLU
2	C	530	GLU
2	C	533	ASP
2	C	543	ASN
2	C	556	ASN
2	C	559	LEU
2	C	564	MET
2	C	566	THR
2	C	572	ILE
2	C	584	GLU
2	C	605	LYS
2	C	606	VAL
2	C	607	ASP
2	C	620	LEU
2	C	621	VAL
2	C	622	GLU
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	673	LEU
2	C	679	PHE
2	C	690	ILE
2	C	691	SER
2	C	693	GLU
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	701	THR
2	C	702	SER
2	C	705	ILE
2	C	715	THR
2	C	716	LYS
2	C	722	ILE
2	C	723	THR
2	C	725	ASP
2	C	727	PRO

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Mol	Chain	Res	Type
2	C	730	SER
2	C	737	LEU
2	C	740	GLU
2	C	750	LYS
2	C	760	SER
2	C	768	THR
2	C	780	GLU
2	C	785	VAL
2	C	799	ILE
2	C	804	VAL
2	C	821	GLU
2	C	822	VAL
2	C	829	GLN
2	C	832	LYS
2	C	834	GLN
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	858	MET
2	C	863	ASP
2	C	870	ILE
2	C	878	SER
2	C	881	ASN
2	C	882	LEU
2	C	900	ARG
2	C	904	PRO
2	C	905	ILE
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	938	LYS
2	C	939	ARG
2	C	945	ARG
2	C	950	LEU
2	C	953	VAL
2	C	958	THR
2	C	960	GLU
2	C	962	GLN
2	C	975	TYR
2	C	978	ARG
2	C	981	GLU
2	C	982	PRO

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Mol	Chain	Res	Type
2	C	984	GLU
2	C	988	VAL
2	C	995	MET
2	C	997	LEU
2	C	999	HIS
2	C	1000	MET
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR
2	C	1018	GLN
2	C	1019	GLN
2	C	1020	PRO
2	C	1021	LEU
2	C	1034	GLU
2	C	1035	MET
2	C	1040	LEU
2	C	1052	MET
2	C	1054	THR
2	C	1076	VAL
2	C	1079	PRO
2	C	1083	GLU
2	C	1084	SER
2	C	1087	VAL
2	C	1088	LEU
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1097	LEU
2	C	1098	ASP
2	C	1104	GLU
2	C	1106	ASP
2	C	1113	GLU
3	D	3	LYS
3	D	9	ARG
3	D	12	LEU
3	D	14	SER
3	D	25	GLU
3	D	27	GLU
3	D	30	GLU
3	D	32	ILE
3	D	34	TYR
3	D	38	LYS

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Mol	Chain	Res	Type
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	53	ILE
3	D	56	TYR
3	D	62	LYS
3	D	69	GLU
3	D	71	LYS
3	D	80	VAL
3	D	82	LYS
3	D	84	ILE
3	D	85	VAL
3	D	86	ARG
3	D	97	THR
3	D	101	HIS
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	117	ASP
3	D	118	LEU
3	D	127	LEU
3	D	133	ILE
3	D	145	VAL
3	D	147	VAL
3	D	148	GLU
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO
3	D	171	LEU
3	D	175	VAL
3	D	183	GLU
3	D	185	VAL
3	D	199	LEU
3	D	205	TYR
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	211	VAL
3	D	389	GLU

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Mol	Chain	Res	Type
3	D	394	LEU
3	D	395	VAL
3	D	406	ASP
3	D	411	THR
3	D	413	ASP
3	D	419	ASP
3	D	427	VAL
3	D	430	ASP
3	D	432	TYR
3	D	441	ARG
3	D	442	ASN
3	D	444	VAL
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	452	ILE
3	D	456	MET
3	D	459	GLU
3	D	465	LEU
3	D	466	LYS
3	D	481	MET
3	D	482	LYS
3	D	483	HIS
3	D	486	ARG
3	D	491	LYS
3	D	503	LEU
3	D	505	SER
3	D	507	ASN
3	D	513	ILE
3	D	521	PRO
3	D	528	VAL
3	D	529	GLN
3	D	540	LEU
3	D	542	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	573	MET
3	D	579	ASP
3	D	590	PRO

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Mol	Chain	Res	Type
3	D	594	PRO
3	D	596	SER
3	D	597	ASP
3	D	598	ARG
3	D	600	LEU
3	D	608	SER
3	D	614	PHE
3	D	617	ASN
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	659	LYS
3	D	666	ILE
3	D	675	ARG
3	D	676	MET
3	D	679	ARG
3	D	682	ASP
3	D	688	TRP
3	D	695	ILE
3	D	702	LEU
3	D	704	ARG
3	D	709	HIS
3	D	710	ARG
3	D	713	ILE
3	D	716	PHE
3	D	717	GLN
3	D	719	VAL
3	D	720	LEU
3	D	724	GLN
3	D	734	GLU
3	D	752	SER
3	D	754	PHE
3	D	762	GLN
3	D	764	LEU
3	D	768	ASN
3	D	784	ASP
3	D	793	THR
3	D	794	GLN
3	D	797	LYS
3	D	799	LYS
3	D	800	LYS

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Mol	Chain	Res	Type
3	D	805	GLU
3	D	813	LEU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	836	VAL
3	D	838	ARG
3	D	839	LEU
3	D	851	LEU
3	D	858	VAL
3	D	859	ASP
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	869	MET
3	D	875	THR
3	D	879	ARG
3	D	880	ILE
3	D	886	VAL
3	D	888	GLU
3	D	891	GLU
3	D	893	GLU
3	D	898	GLU
3	D	901	GLN
3	D	904	VAL
3	D	910	SER
3	D	915	VAL
3	D	922	LEU
3	D	926	LYS
3	D	927	THR
3	D	929	ARG
3	D	944	THR
3	D	947	ILE
3	D	951	ILE
3	D	952	ASP
3	D	959	GLU
3	D	962	GLN
3	D	970	LYS
3	D	972	LEU
3	D	973	GLN
3	D	982	PHE

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Mol	Chain	Res	Type
3	D	985	ASP
3	D	987	GLU
3	D	988	ARG
3	D	999	THR
3	D	1001	GLU
3	D	1026	SER
3	D	1032	PRO
3	D	1033	GLN
3	D	1035	ILE
3	D	1042	ARG
3	D	1045	MET
3	D	1049	SER
3	D	1051	GLU
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1074	SER
3	D	1084	THR
3	D	1086	LEU
3	D	1095	THR
3	D	1096	ARG
3	D	1101	VAL
3	D	1109	GLU
3	D	1112	CYS
3	D	1125	PRO
3	D	1127	GLU
3	D	1129	THR
3	D	1130	ARG
3	D	1131	SER
3	D	1133	ARG
3	D	1135	ARG
3	D	1151	ARG
3	D	1152	GLU
3	D	1160	LEU
3	D	1161	GLU
3	D	1162	GLU
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1173	LEU

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Mol	Chain	Res	Type
3	D	1176	LYS
3	D	1182	GLU
3	D	1183	ILE
3	D	1188	VAL
3	D	1191	PRO
3	D	1195	GLN
3	D	1196	THR
3	D	1197	ARG
3	D	1207	TYR
3	D	1213	ARG
3	D	1219	GLU
3	D	1223	ILE
3	D	1238	MET
3	D	1239	ARG
3	D	1252	ILE
3	D	1253	THR
3	D	1259	VAL
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1280	VAL
3	D	1290	LEU
3	D	1295	GLU
3	D	1299	PHE
3	D	1306	PRO
3	D	1307	LYS
3	D	1310	ARG
3	D	1314	LYS
3	D	1325	LEU
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1346	ARG
3	D	1348	LEU
3	D	1353	GLN
3	D	1359	GLN
3	D	1363	LEU
3	D	1368	ILE
3	D	1374	GLN
3	D	1382	THR

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Mol	Chain	Res	Type
3	D	1383	ASP
3	D	1386	ASP
3	D	1389	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1407	LEU
3	D	1410	GLU
3	D	1415	VAL
3	D	1419	PRO
3	D	1420	LEU
3	D	1421	LEU
3	D	1424	VAL
3	D	1433	SER
3	D	1435	LEU
3	D	1439	SER
3	D	1440	PHE
3	D	1455	LYS
3	D	1456	LYS
3	D	1460	ILE
3	D	1462	LEU
3	D	1466	VAL
3	D	1481	VAL
3	D	1483	PHE
3	D	1485	GLN
3	D	1487	VAL
3	D	1488	ASP
3	D	1496	GLU
3	D	1501	GLU
4	E	7	ASP
4	E	14	ASP
4	E	15	SER
4	E	28	GLN
4	E	29	GLN
4	E	31	LEU
4	E	40	LEU
4	E	42	PRO
4	E	45	ARG
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU

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Mol	Chain	Res	Type
4	E	81	PRO
4	E	89	MET
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	90	GLN
5	F	91	VAL
5	F	115	LYS
5	F	117	SER
5	F	125	ASP
5	F	126	LEU
5	F	127	ILE
5	F	131	VAL
5	F	135	ILE
5	F	138	SER
5	F	142	ARG
5	F	145	PRO
5	F	149	GLU
5	F	150	THR
5	F	164	LYS
5	F	172	ARG
5	F	174	LEU
5	F	176	ILE
5	F	181	GLU
5	F	186	HIS
5	F	187	LEU
5	F	192	LEU
5	F	194	LEU
5	F	212	LEU
5	F	225	GLU
5	F	233	PHE
5	F	240	THR
5	F	245	GLN
5	F	249	ARG
5	F	259	ARG
5	F	262	VAL
5	F	266	GLU
5	F	269	ASN
5	F	282	LEU
5	F	285	GLU
5	F	295	MET
5	F	297	PRO

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Mol	Chain	Res	Type
5	F	302	LYS
5	F	306	GLU
5	F	316	SER
5	F	317	LEU
5	F	319	THR
5	F	324	GLU
5	F	328	PHE
5	F	336	GLU
5	F	337	HIS
5	F	340	SER
5	F	341	PRO
5	F	342	VAL
5	F	347	GLN
5	F	349	LEU
5	F	353	GLU
5	F	361	LEU
5	F	362	SER
5	F	365	GLU
5	F	370	LYS
5	F	392	VAL
5	F	393	THR
5	F	398	ARG
5	F	399	GLN
5	F	403	LYS
5	F	410	TYR
5	F	419	ARG
5	F	420	ASP
5	F	422	LEU
1	K	1	MET
1	K	9	PRO
1	K	18	ARG
1	K	19	GLU
1	K	25	LEU
1	K	29	GLU
1	K	44	LEU
1	K	45	LEU
1	K	62	LEU
1	K	73	GLU
1	K	80	LEU
1	K	89	PHE
1	K	92	PRO
1	K	95	GLN

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Mol	Chain	Res	Type
1	K	101	LEU
1	K	113	ASP
1	K	115	LEU
1	K	121	GLU
1	K	127	LEU
1	K	131	THR
1	K	138	LEU
1	K	142	VAL
1	K	146	ARG
1	K	155	LYS
1	K	161	ARG
1	K	162	ILE
1	K	165	ILE
1	K	167	VAL
1	K	170	VAL
1	K	176	ARG
1	K	180	GLN
1	K	184	THR
1	K	190	THR
1	K	193	ASP
1	K	196	THR
1	K	198	ARG
1	K	205	VAL
1	K	206	THR
1	K	211	LEU
1	K	215	VAL
1	K	222	LEU
1	K	223	THR
1	K	227	ASN
1	K	229	GLN
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	7	LYS
1	L	9	PRO
1	L	25	LEU
1	L	29	GLU
1	L	47	SER
1	L	62	LEU
1	L	65	PHE
1	L	69	PRO
1	L	73	GLU

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Mol	Chain	Res	Type
1	L	77	GLU
1	L	80	LEU
1	L	81	ASN
1	L	89	PHE
1	L	94	LEU
1	L	95	GLN
1	L	99	LEU
1	L	101	LEU
1	L	104	GLU
1	L	110	LYS
1	L	115	LEU
1	L	121	GLU
1	L	134	GLU
1	L	138	LEU
1	L	141	GLU
1	L	159	LYS
1	L	162	ILE
1	L	167	VAL
1	L	176	ARG
1	L	177	VAL
1	L	180	GLN
1	L	181	VAL
1	L	182	GLU
1	L	184	THR
1	L	201	THR
1	L	206	THR
1	L	212	ASN
1	L	213	GLN
1	L	216	GLU
1	L	227	ASN
1	L	229	GLN
2	M	3	ILE
2	M	9	ILE
2	M	10	ARG
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	37	GLU
2	M	48	PHE
2	M	49	ARG
2	M	51	THR

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Mol	Chain	Res	Type
2	M	71	TYR
2	M	77	PRO
2	M	82	GLU
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	100	LEU
2	M	102	HIS
2	M	103	LYS
2	M	104	ASP
2	M	105	THR
2	M	107	LEU
2	M	108	ILE
2	M	111	ASP
2	M	114	PHE
2	M	115	LEU
2	M	135	VAL
2	M	140	ILE
2	M	143	SER
2	M	150	PRO
2	M	152	PRO
2	M	158	TYR
2	M	163	ILE
2	M	167	LYS
2	M	175	GLU
2	M	178	PRO
2	M	182	VAL
2	M	184	MET
2	M	192	PRO
2	M	198	ARG
2	M	205	GLU
2	M	218	VAL
2	M	221	LEU
2	M	222	MET
2	M	223	ASP
2	M	229	MET
2	M	230	ARG
2	M	233	GLU
2	M	235	LEU
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU

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Mol	Chain	Res	Type
2	M	242	LEU
2	M	243	ARG
2	M	246	ASP
2	M	252	LYS
2	M	254	VAL
2	M	257	VAL
2	M	260	LEU
2	M	264	PRO
2	M	266	ARG
2	M	267	TYR
2	M	268	ASP
2	M	276	LYS
2	M	281	LEU
2	M	285	LEU
2	M	289	THR
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	313	LEU
2	M	321	GLU
2	M	322	VAL
2	M	327	HIS
2	M	328	LEU
2	M	335	THR
2	M	339	LEU
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	366	SER
2	M	367	LEU
2	M	371	LYS
2	M	376	ARG
2	M	379	GLU
2	M	383	ARG
2	M	387	SER
2	M	393	GLN
2	M	394	PHE
2	M	396	ASP

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Mol	Chain	Res	Type
2	M	397	GLU
2	M	399	ASN
2	M	400	PRO
2	M	402	SER
2	M	413	LEU
2	M	419	THR
2	M	420	ARG
2	M	421	GLU
2	M	432	ARG
2	M	443	THR
2	M	445	GLU
2	M	452	ILE
2	M	460	ARG
2	M	462	ASP
2	M	467	ILE
2	M	472	ARG
2	M	474	VAL
2	M	480	THR
2	M	482	GLU
2	M	486	MET
2	M	496	ILE
2	M	502	PRO
2	M	503	LEU
2	M	507	ARG
2	M	511	GLU
2	M	524	VAL
2	M	527	GLU
2	M	528	GLU
2	M	532	MET
2	M	533	ASP
2	M	542	VAL
2	M	543	ASN
2	M	544	THR
2	M	548	PRO
2	M	554	ASP
2	M	562	SER
2	M	563	ASN
2	M	564	MET
2	M	565	GLN
2	M	571	LEU
2	M	579	VAL
2	M	584	GLU

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Mol	Chain	Res	Type
2	M	586	ARG
2	M	588	VAL
2	M	589	ARG
2	M	599	GLU
2	M	607	ASP
2	M	620	LEU
2	M	626	ARG
2	M	632	ASN
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	639	GLN
2	M	640	ARG
2	M	645	VAL
2	M	648	ARG
2	M	654	LEU
2	M	657	ASP
2	M	659	PRO
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	676	ILE
2	M	690	ILE
2	M	697	ARG
2	M	699	PHE
2	M	701	THR
2	M	713	ARG
2	M	714	ASP
2	M	715	THR
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	734	LEU
2	M	737	LEU
2	M	744	ARG
2	M	748	GLU
2	M	749	VAL
2	M	750	LYS
2	M	775	ARG
2	M	785	VAL
2	M	790	LEU
2	M	791	ARG

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Mol	Chain	Res	Type
2	M	799	ILE
2	M	808	ARG
2	M	816	LYS
2	M	821	GLU
2	M	829	GLN
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	861	LEU
2	M	862	PRO
2	M	865	THR
2	M	870	ILE
2	M	881	ASN
2	M	886	LEU
2	M	890	LEU
2	M	905	ILE
2	M	907	ASP
2	M	911	GLU
2	M	925	TYR
2	M	928	LYS
2	M	937	ASP
2	M	938	LYS
2	M	950	LEU
2	M	976	ASP
2	M	978	ARG
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1000	MET
2	M	1002	GLU
2	M	1006	HIS
2	M	1008	ARG
2	M	1009	SER
2	M	1016	ILE
2	M	1017	THR
2	M	1035	MET
2	M	1040	LEU
2	M	1054	THR
2	M	1060	ILE
2	M	1074	GLU
2	M	1079	PRO
2	M	1080	SER

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Mol	Chain	Res	Type
2	M	1087	VAL
2	M	1088	LEU
2	M	1091	GLU
2	M	1092	LEU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
2	M	1113	GLU
2	M	1115	LEU
3	N	3	LYS
3	N	7	LYS
3	N	12	LEU
3	N	14	SER
3	N	15	PRO
3	N	27	GLU
3	N	28	LYS
3	N	31	THR
3	N	33	ASN
3	N	34	TYR
3	N	36	THR
3	N	41	ARG
3	N	52	PRO
3	N	53	ILE
3	N	68	PHE
3	N	71	LYS
3	N	76	CYS
3	N	78	VAL
3	N	79	GLU
3	N	82	LYS
3	N	85	VAL
3	N	86	ARG
3	N	95	LEU
3	N	97	THR
3	N	101	HIS
3	N	103	TRP
3	N	107	ASP
3	N	108	VAL
3	N	112	ILE
3	N	123	LEU
3	N	128	TYR
3	N	131	LYS
3	N	133	ILE

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Mol	Chain	Res	Type
3	N	145	VAL
3	N	147	VAL
3	N	148	GLU
3	N	152	LEU
3	N	153	LEU
3	N	162	ARG
3	N	165	LYS
3	N	166	GLN
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	172	PRO
3	N	176	ASP
3	N	183	GLU
3	N	185	VAL
3	N	193	PRO
3	N	199	LEU
3	N	204	LEU
3	N	205	TYR
3	N	208	PRO
3	N	389	GLU
3	N	393	ILE
3	N	394	LEU
3	N	395	VAL
3	N	405	ASP
3	N	408	GLU
3	N	411	THR
3	N	413	ASP
3	N	417	PRO
3	N	419	ASP
3	N	420	VAL
3	N	427	VAL
3	N	430	ASP
3	N	432	TYR
3	N	441	ARG
3	N	444	VAL
3	N	447	VAL
3	N	450	TYR
3	N	452	ILE
3	N	453	ASP
3	N	456	MET
3	N	459	GLU

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Mol	Chain	Res	Type
3	N	465	LEU
3	N	473	LEU
3	N	483	HIS
3	N	488	ARG
3	N	493	ARG
3	N	502	PHE
3	N	513	ILE
3	N	518	PRO
3	N	521	PRO
3	N	530	VAL
3	N	535	PHE
3	N	571	LYS
3	N	576	GLU
3	N	590	PRO
3	N	591	VAL
3	N	593	ASN
3	N	594	PRO
3	N	598	ARG
3	N	600	LEU
3	N	601	ARG
3	N	602	SER
3	N	610	LYS
3	N	611	GLN
3	N	613	ARG
3	N	614	PHE
3	N	617	ASN
3	N	624	ASP
3	N	625	TYR
3	N	628	ARG
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	652	LEU
3	N	666	ILE
3	N	676	MET
3	N	681	ARG
3	N	684	LYS
3	N	692	GLU
3	N	695	ILE
3	N	701	LEU
3	N	704	ARG
3	N	713	ILE

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Mol	Chain	Res	Type
3	N	716	PHE
3	N	717	GLN
3	N	724	GLN
3	N	725	SER
3	N	732	VAL
3	N	739	ASP
3	N	744	GLN
3	N	749	VAL
3	N	758	GLU
3	N	770	LEU
3	N	780	LYS
3	N	781	PRO
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	804	LEU
3	N	805	GLU
3	N	823	LEU
3	N	824	ASN
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	839	LEU
3	N	840	LYS
3	N	846	PRO
3	N	847	ASP
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	871	LYS
3	N	875	THR
3	N	880	ILE
3	N	888	GLU
3	N	892	ASP
3	N	897	TRP
3	N	914	LEU
3	N	917	GLN
3	N	926	LYS

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Mol	Chain	Res	Type
3	N	944	THR
3	N	951	ILE
3	N	959	GLU
3	N	970	LYS
3	N	984	THR
3	N	987	GLU
3	N	994	GLN
3	N	999	THR
3	N	1005	GLN
3	N	1019	PRO
3	N	1034	GLN
3	N	1035	ILE
3	N	1039	CYS
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG
3	N	1063	GLU
3	N	1065	LEU
3	N	1068	LEU
3	N	1074	SER
3	N	1084	THR
3	N	1086	LEU
3	N	1093	TYR
3	N	1101	VAL
3	N	1104	GLU
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1114	THR
3	N	1119	SER
3	N	1127	GLU
3	N	1129	THR
3	N	1151	ARG
3	N	1158	VAL
3	N	1161	GLU
3	N	1166	LEU
3	N	1176	LYS
3	N	1183	ILE
3	N	1184	GLN

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Mol	Chain	Res	Type
3	N	1189	ARG
3	N	1195	GLN
3	N	1197	ARG
3	N	1202	GLN
3	N	1207	TYR
3	N	1210	SER
3	N	1216	SER
3	N	1223	ILE
3	N	1236	LEU
3	N	1254	GLN
3	N	1257	PRO
3	N	1260	ILE
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1274	ILE
3	N	1278	ASP
3	N	1280	VAL
3	N	1284	GLU
3	N	1286	THR
3	N	1297	GLU
3	N	1299	PHE
3	N	1305	LEU
3	N	1306	PRO
3	N	1307	LYS
3	N	1312	LEU
3	N	1314	LYS
3	N	1315	ASP
3	N	1325	LEU
3	N	1331	ASP
3	N	1337	GLU
3	N	1344	VAL
3	N	1346	ARG
3	N	1348	LEU
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1363	LEU
3	N	1368	ILE
3	N	1372	VAL
3	N	1378	TYR
3	N	1380	GLU

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Mol	Chain	Res	Type
3	N	1381	VAL
3	N	1382	THR
3	N	1390	LEU
3	N	1395	LEU
3	N	1401	GLU
3	N	1403	LEU
3	N	1404	ASN
3	N	1415	VAL
3	N	1419	PRO
3	N	1424	VAL
3	N	1426	LYS
3	N	1429	LEU
3	N	1431	THR
3	N	1432	LYS
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1442	ASN
3	N	1447	LEU
3	N	1452	ILE
3	N	1455	LYS
3	N	1456	LYS
3	N	1460	ILE
3	N	1462	LEU
3	N	1463	LYS
3	N	1465	ASN
3	N	1466	VAL
3	N	1476	THR
3	N	1478	SER
3	N	1488	ASP
3	N	1499	ARG
3	N	1501	GLU
4	O	6	ILE
4	O	12	MET
4	O	17	TYR
4	O	20	THR
4	O	23	VAL
4	O	29	GLN
4	O	45	ARG
4	O	47	LYS
4	O	48	MET

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Mol	Chain	Res	Type
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	70	THR
4	O	74	VAL
4	O	77	GLU
4	O	85	LEU
4	O	86	GLN
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	90	GLN
5	P	91	VAL
5	P	96	LEU
5	P	101	GLU
5	P	117	SER
5	P	125	ASP
5	P	135	ILE
5	P	136	LEU
5	P	142	ARG
5	P	144	ILE
5	P	145	PRO
5	P	150	THR
5	P	151	LEU
5	P	168	LYS
5	P	174	LEU
5	P	176	ILE
5	P	181	GLU
5	P	187	LEU
5	P	200	LYS
5	P	211	ASP
5	P	218	GLN
5	P	220	LEU
5	P	234	LYS
5	P	249	ARG
5	P	262	VAL
5	P	266	GLU
5	P	289	GLU
5	P	291	ILE
5	P	295	MET
5	P	302	LYS
5	P	305	GLU

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Mol	Chain	Res	Type
5	P	306	GLU
5	P	313	GLU
5	P	316	SER
5	P	318	GLU
5	P	328	PHE
5	P	335	ASP
5	P	336	GLU
5	P	341	PRO
5	P	342	VAL
5	P	347	GLN
5	P	349	LEU
5	P	350	LEU
5	P	353	GLU
5	P	363	GLU
5	P	370	LYS
5	P	392	VAL
5	P	393	THR
5	P	399	GLN
5	P	403	LYS
5	P	408	LEU
5	P	410	TYR
5	P	419	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (193) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	95	GLN
1	A	128	HIS
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	227	ASN
1	A	229	GLN
1	B	63	HIS
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN

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Mol	Chain	Res	Type
2	C	41	ASN
2	C	80	GLN
2	C	91	GLN
2	C	99	GLN
2	C	117	HIS
2	C	204	GLN
2	C	330	ASN
2	C	343	GLN
2	C	374	ASN
2	C	390	GLN
2	C	393	GLN
2	C	431	HIS
2	C	448	ASN
2	C	500	ASN
2	C	506	ASN
2	C	538	GLN
2	C	552	HIS
2	C	563	ASN
2	C	565	GLN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	884	GLN
2	C	889	HIS
2	C	899	GLN
2	C	991	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1100	GLN
3	D	507	ASN
3	D	552	ASN
3	D	569	ASN
3	D	616	GLN
3	D	617	ASN
3	D	669	ASN
3	D	703	ASN
3	D	709	HIS
3	D	724	GLN
3	D	756	GLN

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Mol	Chain	Res	Type
3	D	768	ASN
3	D	824	ASN
3	D	906	GLN
3	D	909	ASN
3	D	973	GLN
3	D	1005	GLN
3	D	1018	ASN
3	D	1033	GLN
3	D	1046	GLN
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1172	HIS
3	D	1195	GLN
3	D	1227	GLN
3	D	1235	GLN
3	D	1323	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1465	ASN
4	E	28	GLN
4	E	86	GLN
5	F	83	GLN
5	F	161	GLN
5	F	175	HIS
5	F	217	ASN
5	F	218	GLN
5	F	245	GLN
5	F	248	ASN
5	F	254	GLN
5	F	312	GLN
5	F	337	HIS
5	F	399	GLN
5	F	402	ASN
1	K	63	HIS
1	K	81	ASN
1	K	124	ASN
1	K	156	HIS
1	K	180	GLN
1	K	213	GLN

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Mol	Chain	Res	Type
1	K	227	ASN
1	K	229	GLN
1	L	38	ASN
1	L	63	HIS
1	L	81	ASN
1	L	95	GLN
1	L	124	ASN
1	L	128	HIS
1	L	139	ASN
1	L	212	ASN
1	L	227	ASN
2	M	22	GLN
2	M	31	GLN
2	M	45	GLN
2	M	91	GLN
2	M	99	GLN
2	M	102	HIS
2	M	130	ASN
2	M	139	GLN
2	M	179	ASN
2	M	187	ASN
2	M	327	HIS
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	393	GLN
2	M	431	HIS
2	M	538	GLN
2	M	543	ASN
2	M	545	ASN
2	M	552	HIS
2	M	565	GLN
2	M	567	GLN
2	M	609	ASN
2	M	632	ASN
2	M	633	GLN
2	M	639	GLN
2	M	663	ASN
2	M	834	GLN
2	M	841	ASN
2	M	860	HIS
2	M	881	ASN

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Mol	Chain	Res	Type
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	969	GLN
2	M	991	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1107	ASN
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	462	GLN
3	N	507	ASN
3	N	541	ASN
3	N	549	ASN
3	N	560	GLN
3	N	640	HIS
3	N	703	ASN
3	N	717	GLN
3	N	727	GLN
3	N	744	GLN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	901	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1033	GLN
3	N	1034	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1184	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1353	GLN
3	N	1374	GLN
3	N	1404	ASN
3	N	1465	ASN
3	N	1485	GLN

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Mol	Chain	Res	Type
4	O	28	GLN
4	O	33	HIS
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	186	HIS
5	P	217	ASN
5	P	245	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
6	STD	N	8002	-	41,47,47	7.26	24 (58%)	50,73,73	2.86	12 (24%)
6	STD	D	8001	-	41,47,47	7.28	22 (53%)	50,73,73	2.77	13 (26%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral

centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	STD	N	8002	-	-	16/31/101/101	0/6/5/5
6	STD	D	8001	-	-	14/31/101/101	0/6/5/5

All (46) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	8001	STD	O5-C19	-28.88	1.18	1.43
6	N	8002	STD	O5-C19	-27.96	1.18	1.43
6	N	8002	STD	C23-C21	-14.85	1.21	1.53
6	D	8001	STD	C23-C21	-14.78	1.22	1.53
6	D	8001	STD	C18-C16	-13.71	1.25	1.53
6	N	8002	STD	C18-C16	-13.45	1.25	1.53
6	N	8002	STD	C15-C12	-12.83	1.21	1.52
6	D	8001	STD	C15-C12	-12.47	1.22	1.52
6	N	8002	STD	O8-C19	12.21	1.53	1.43
6	D	8001	STD	O5-C13	12.18	1.62	1.44
6	N	8002	STD	O5-C13	11.72	1.61	1.44
6	D	8001	STD	O8-C19	11.51	1.53	1.43
6	D	8001	STD	C17-C30	10.36	1.66	1.49
6	N	8002	STD	C17-C30	9.33	1.64	1.49
6	D	8001	STD	O8-C17	7.19	1.52	1.44
6	N	8002	STD	O8-C17	7.11	1.52	1.44
6	N	8002	STD	C22-N2	7.10	1.43	1.33
6	N	8002	STD	C21-C22	6.92	1.62	1.52
6	D	8001	STD	C16-C13	6.91	1.67	1.53
6	D	8001	STD	C22-N2	6.91	1.42	1.33
6	D	8001	STD	C15-C26	6.84	1.62	1.52
6	N	8002	STD	C16-C13	6.75	1.67	1.53
6	N	8002	STD	C15-C26	6.70	1.62	1.52
6	N	8002	STD	C6-C5	-6.16	1.36	1.45
6	N	8002	STD	C30-C32	5.62	1.40	1.32
6	D	8001	STD	C21-C22	5.36	1.60	1.52
6	D	8001	STD	C30-C32	5.32	1.40	1.32
6	N	8002	STD	C7-C8	-5.24	1.34	1.46
6	N	8002	STD	O4-C4	4.96	1.48	1.42
6	D	8001	STD	C6-C5	-4.49	1.38	1.45
6	D	8001	STD	C7-C8	-4.25	1.36	1.46
6	D	8001	STD	C4-N1	4.25	1.51	1.45
6	N	8002	STD	O9-C31	3.50	1.53	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	8001	STD	O4-C4	3.41	1.46	1.42
6	D	8001	STD	O9-C31	3.37	1.52	1.44
6	N	8002	STD	C4-N1	3.26	1.50	1.45
6	D	8001	STD	C29-C19	2.86	1.55	1.51
6	D	8001	STD	C12-C4	2.84	1.62	1.50
6	N	8002	STD	C29-C19	2.74	1.55	1.51
6	N	8002	STD	O4-C25	2.63	1.50	1.44
6	D	8001	STD	C28-C32	2.58	1.54	1.50
6	N	8002	STD	C12-C4	2.31	1.60	1.50
6	N	8002	STD	C27-C25	2.27	1.57	1.51
6	D	8001	STD	C11-C8	2.22	1.55	1.50
6	N	8002	STD	C11-C8	2.03	1.55	1.50
6	N	8002	STD	O7-C26	2.02	1.47	1.43

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	8001	STD	C20-N1-C2	-10.34	103.15	113.06
6	N	8002	STD	C20-N1-C2	-10.16	103.32	113.06
6	N	8002	STD	C19-O5-C13	9.80	122.91	112.81
6	D	8001	STD	C19-O5-C13	8.23	121.29	112.81
6	D	8001	STD	O8-C17-C30	-7.27	105.06	111.68
6	N	8002	STD	O8-C17-C30	-7.06	105.26	111.68
6	N	8002	STD	C2-C1-C3	-5.38	102.67	107.81
6	D	8001	STD	C2-C1-C3	-4.78	103.25	107.81
6	D	8001	STD	C10-C13-C16	4.41	122.69	115.56
6	N	8002	STD	C15-C12-C4	4.25	116.11	109.06
6	D	8001	STD	C15-C12-C4	4.17	115.97	109.06
6	D	8001	STD	O2-C2-N1	-3.77	118.39	126.39
6	N	8002	STD	O2-C2-N1	-3.69	118.56	126.39
6	D	8001	STD	O4-C4-N1	3.62	109.83	105.83
6	N	8002	STD	O4-C4-N1	3.45	109.64	105.83
6	D	8001	STD	O2-C2-C1	-3.31	122.49	130.65
6	D	8001	STD	C7-C6-C5	3.29	127.77	122.49
6	D	8001	STD	C12-C15-C26	3.24	116.53	111.76
6	N	8002	STD	C10-C13-C16	3.24	120.80	115.56
6	N	8002	STD	O2-C2-C1	-3.10	123.01	130.65
6	N	8002	STD	O5-C19-C29	2.94	107.99	105.63
6	N	8002	STD	C7-C6-C5	2.82	127.01	122.49
6	N	8002	STD	C12-C15-C26	2.79	115.87	111.76
6	D	8001	STD	O5-C19-C29	2.30	107.47	105.63
6	D	8001	STD	C11-C8-C7	2.04	121.21	118.09

There are no chirality outliers.

All (30) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	8001	STD	O4-C4-N1-C20
6	D	8001	STD	C1-C5-C6-C7
6	D	8001	STD	O3-C5-C6-C7
6	D	8001	STD	C9-C10-C13-C16
6	D	8001	STD	C9-C10-C13-O5
6	D	8001	STD	C14-C10-C13-O5
6	D	8001	STD	C21-C22-N2-C24
6	D	8001	STD	O6-C22-N2-C24
6	N	8002	STD	O4-C4-N1-C2
6	N	8002	STD	O4-C4-N1-C20
6	N	8002	STD	C1-C5-C6-C7
6	N	8002	STD	O3-C5-C6-C7
6	N	8002	STD	C9-C10-C13-C16
6	N	8002	STD	C9-C10-C13-O5
6	N	8002	STD	C14-C10-C13-C16
6	N	8002	STD	C14-C10-C13-O5
6	N	8002	STD	C21-C22-N2-C24
6	N	8002	STD	O6-C22-N2-C24
6	D	8001	STD	C6-C7-C8-C11
6	N	8002	STD	C6-C7-C8-C9
6	D	8001	STD	C14-C10-C13-C16
6	N	8002	STD	C6-C7-C8-C11
6	D	8001	STD	C6-C7-C8-C9
6	N	8002	STD	C14-C10-C9-C8
6	N	8002	STD	C13-C10-C9-C8
6	N	8002	STD	C23-C21-C22-O6
6	D	8001	STD	C13-C10-C9-C8
6	D	8001	STD	O4-C4-N1-C2
6	D	8001	STD	C14-C10-C9-C8
6	N	8002	STD	C12-C4-N1-C2

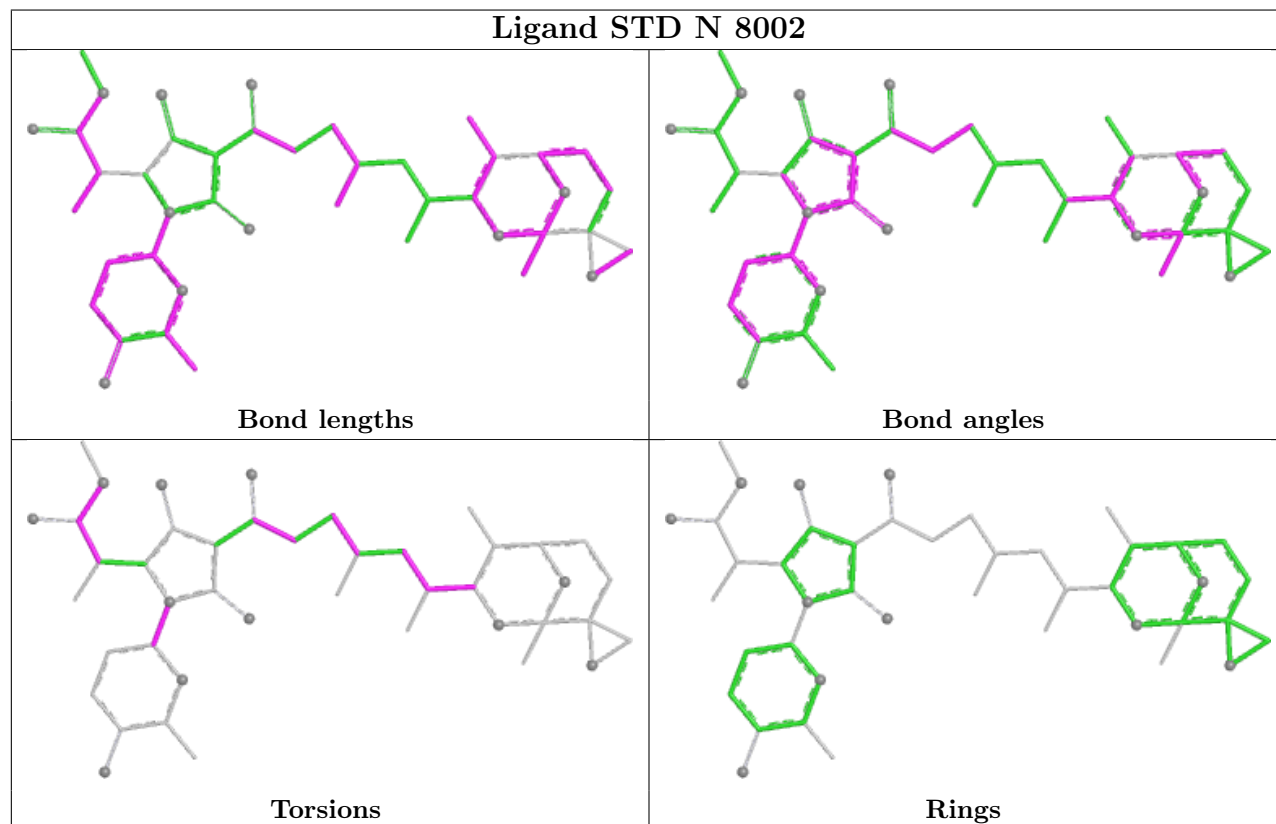
There are no ring outliers.

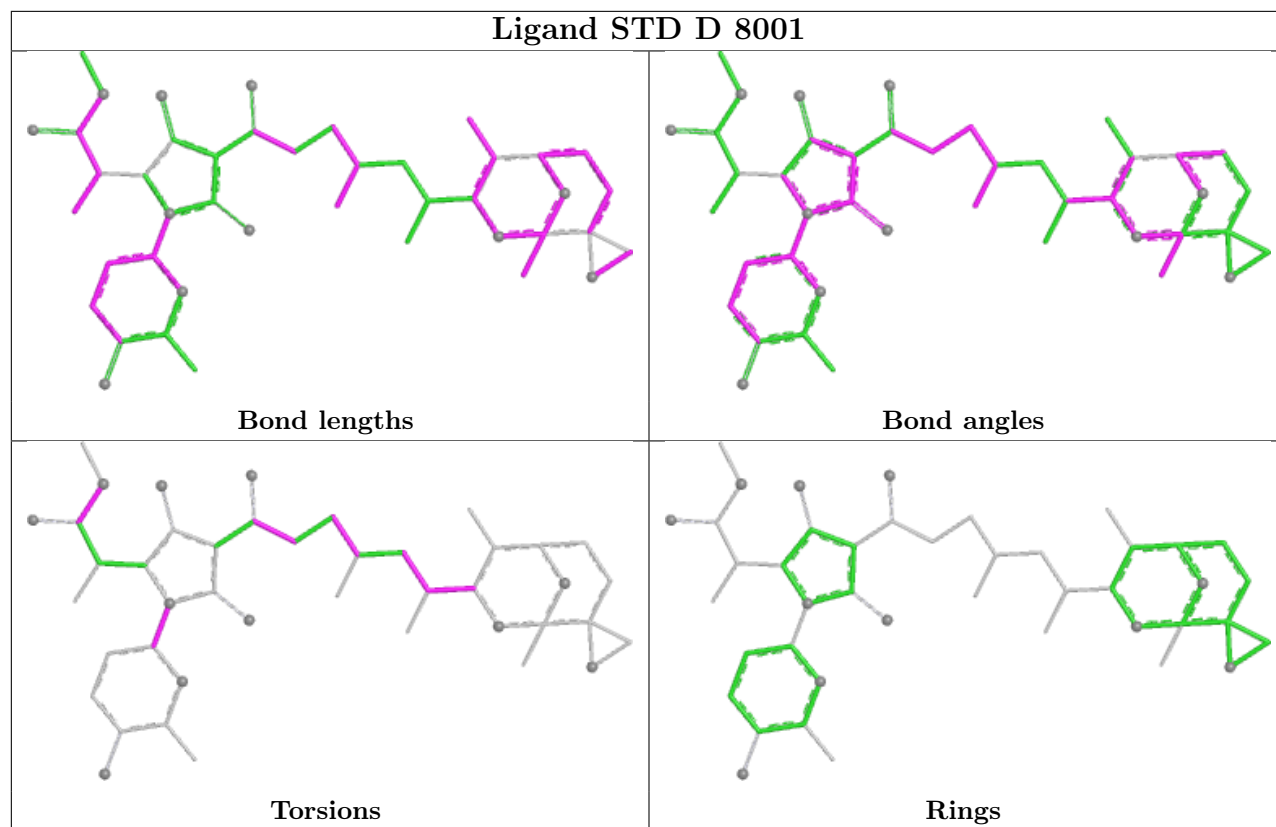
2 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	N	8002	STD	6	0
6	D	8001	STD	4	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	1.99	66 (28%)  	31, 63, 90, 117	0
1	B	229/315 (72%)	2.22	69 (30%)  	53, 90, 112, 118	0
1	K	229/315 (72%)	1.49	61 (26%)  	33, 62, 87, 122	0
1	L	229/315 (72%)	2.52	65 (28%)  	50, 87, 110, 125	0
2	C	1119/1119 (100%)	2.64	472 (42%)  	25, 78, 104, 116	0
2	M	1119/1119 (100%)	2.49	430 (38%)  	23, 72, 104, 115	0
3	D	1381/1524 (90%)	1.65	337 (24%)  	27, 67, 107, 119	0
3	N	1381/1524 (90%)	1.86	404 (29%)  	27, 68, 108, 120	0
4	E	95/99 (95%)	1.91	32 (33%)  	44, 81, 108, 128	0
4	O	95/99 (95%)	2.44	39 (41%)  	44, 75, 93, 105	0
5	F	345/423 (81%)	2.59	147 (42%)  	55, 84, 107, 122	0
5	P	345/423 (81%)	2.64	153 (44%)  	62, 84, 108, 116	0
All	All	6796/7590 (89%)	2.16	2275 (33%)  	23, 73, 106, 128	0

All (2275) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	M	153	ALA	26.9
2	C	153	ALA	25.3
1	L	119	ASP	24.0
1	L	91	ASN	23.2
1	L	90	LEU	22.8
3	N	238	PRO	22.3
3	N	403	PHE	22.2
1	L	93	SER	21.5
3	N	1251	ASP	20.6
1	B	162	ILE	20.5
1	B	118	ALA	20.3

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Mol	Chain	Res	Type	RSRZ
3	N	235	ALA	20.1
1	L	94	LEU	19.8
2	M	782	ALA	19.2
3	D	188	GLY	19.0
5	P	359	SER	18.8
3	D	532	GLY	17.8
2	C	380	ALA	17.6
2	C	155	PRO	17.4
2	M	152	PRO	17.3
3	D	403	PHE	17.2
1	L	126	ASP	17.2
2	M	151	ASP	17.1
5	F	359	SER	17.0
5	F	387	GLY	17.0
3	D	1504	GLU	16.7
2	C	152	PRO	16.7
3	N	404	GLU	16.6
1	B	119	ASP	16.6
1	L	162	ILE	16.5
2	C	782	ALA	16.5
2	M	155	PRO	16.4
3	D	1404	ASN	16.3
2	M	228	ALA	16.3
3	D	415	VAL	16.3
2	C	730	SER	16.2
2	C	931	GLY	16.1
2	C	763	GLY	16.0
3	N	530	VAL	15.9
2	C	16	PRO	15.9
2	M	175	GLU	15.9
1	B	126	ASP	15.8
2	C	525	SER	15.8
2	C	151	ASP	15.7
2	M	1062	GLY	15.6
1	A	1	MET	15.6
3	D	1316	GLY	15.6
3	D	530	VAL	15.5
2	C	82	GLU	15.5
5	P	386	VAL	15.3
3	D	401	TYR	15.2
1	A	2	LEU	15.2
2	C	37	GLU	15.1

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Mol	Chain	Res	Type	RSRZ
1	L	96	THR	15.1
2	C	208	ALA	15.0
5	F	391	GLY	15.0
3	N	406	ASP	14.9
1	L	95	GLN	14.9
3	D	137	PRO	14.9
3	D	405	ASP	14.8
3	D	588	GLY	14.8
3	N	137	PRO	14.7
2	C	17	PRO	14.6
2	C	515	ALA	14.6
2	M	513	VAL	14.6
2	M	377	PRO	14.4
5	F	386	VAL	14.3
3	D	1251	ASP	14.1
2	M	522	VAL	14.0
2	C	509	ALA	14.0
3	N	799	LYS	14.0
3	N	405	ASP	14.0
2	M	730	SER	14.0
2	C	513	VAL	13.9
4	O	94	PRO	13.8
2	M	510	ALA	13.8
1	K	157	GLY	13.8
3	D	416	ALA	13.8
3	N	597	ASP	13.8
2	M	227	PHE	13.7
3	N	240	GLU	13.7
2	M	18	LEU	13.7
1	A	6	LEU	13.6
3	N	1316	GLY	13.6
2	C	784	ASP	13.6
2	M	590	ASP	13.6
1	L	187	GLY	13.5
2	C	180	GLY	13.5
3	D	402	PRO	13.5
1	A	108	GLU	13.5
1	L	188	GLN	13.4
2	C	524	VAL	13.4
2	M	19	THR	13.3
2	C	251	ASP	13.2
2	M	347	GLY	13.1

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Mol	Chain	Res	Type	RSRZ
2	C	19	THR	13.0
2	M	223	ASP	13.0
3	D	534	ARG	12.9
2	C	181	VAL	12.9
2	C	514	VAL	12.9
5	F	86	HIS	12.9
2	C	510	ALA	12.9
2	C	18	LEU	12.9
2	C	522	VAL	12.9
4	E	77	GLU	12.9
3	N	241	ILE	12.9
3	D	238	PRO	12.8
2	M	154	ARG	12.8
3	D	505	SER	12.8
2	C	150	PRO	12.8
3	N	868	TYR	12.7
2	C	781	LYS	12.7
3	N	531	ASP	12.7
2	C	817	PRO	12.6
2	M	17	PRO	12.6
5	P	393	THR	12.6
2	C	1	MET	12.6
1	L	92	PRO	12.5
3	N	585	GLY	12.5
2	C	223	ASP	12.4
1	B	90	LEU	12.4
2	C	234	ALA	12.4
3	D	870	GLY	12.3
4	O	77	GLU	12.3
2	C	194	VAL	12.3
5	F	393	THR	12.3
2	C	20	GLU	12.3
2	C	590	ASP	12.3
1	L	160	ASP	12.2
3	N	408	GLU	12.2
2	C	228	ALA	12.2
2	M	226	VAL	12.2
3	D	1337	GLU	12.2
3	D	849	ALA	12.1
2	M	180	GLY	12.1
3	N	870	GLY	12.1
2	M	1	MET	12.1

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Mol	Chain	Res	Type	RSRZ
3	D	1317	ASP	12.1
3	N	410	SER	12.1
2	M	220	GLY	12.0
2	M	784	ASP	12.0
2	M	178	PRO	12.0
2	M	224	GLU	11.9
3	D	808	THR	11.9
5	F	102	LEU	11.9
3	D	67	ARG	11.9
2	M	95	TYR	11.8
3	D	442	ASN	11.8
2	C	728	HIS	11.8
3	D	417	PRO	11.8
1	L	190	THR	11.8
3	N	505	SER	11.7
4	O	52	GLU	11.7
5	P	415	THR	11.7
1	B	188	GLN	11.7
3	N	969	ARG	11.7
2	C	79	PRO	11.6
3	N	1480	PHE	11.6
2	C	617	ASP	11.6
3	D	407	VAL	11.6
5	P	86	HIS	11.5
3	N	237	LYS	11.5
5	F	204	GLY	11.5
2	C	347	GLY	11.5
3	N	1404	ASN	11.5
3	N	1073	SER	11.4
2	C	224	GLU	11.4
1	A	157	GLY	11.3
3	N	156	GLU	11.3
3	D	66	GLN	11.3
3	N	849	ALA	11.3
3	D	1480	PHE	11.3
2	C	14	PRO	11.2
3	N	1481	VAL	11.2
5	F	360	LYS	11.2
2	C	375	SER	11.2
2	M	1065	ALA	11.1
3	D	533	GLY	11.1
2	C	555	ALA	11.1

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Mol	Chain	Res	Type	RSRZ
3	D	531	ASP	11.0
3	N	1442	ASN	10.9
2	C	36	PRO	10.9
3	D	235	ALA	10.9
3	D	1418	LYS	10.9
2	M	225	SER	10.9
3	N	407	VAL	10.9
3	N	239	GLY	10.9
3	D	156	GLU	10.8
3	D	1408	ILE	10.8
3	D	585	GLY	10.8
2	M	94	LEU	10.8
2	M	194	VAL	10.8
3	N	154	THR	10.8
3	N	409	VAL	10.8
3	D	1129	THR	10.8
2	C	586	ARG	10.7
2	C	169	GLY	10.7
3	N	532	GLY	10.7
2	C	220	GLY	10.7
2	C	167	LYS	10.7
2	M	1001	VAL	10.6
5	P	394	ARG	10.6
2	C	556	ASN	10.6
2	M	115	LEU	10.6
2	M	728	HIS	10.6
5	F	121	GLY	10.6
3	D	809	PRO	10.6
3	N	588	GLY	10.5
2	C	618	GLY	10.5
5	F	90	GLN	10.5
3	N	854	ALA	10.5
3	N	236	TYR	10.5
1	A	106	PRO	10.5
3	N	1070	TYR	10.4
3	D	154	THR	10.4
3	N	1068	LEU	10.4
3	D	234	GLU	10.3
2	C	164	PRO	10.3
5	F	415	THR	10.3
3	D	850	LEU	10.3
2	M	514	VAL	10.3

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Mol	Chain	Res	Type	RSRZ
3	D	400	VAL	10.3
1	L	161	ARG	10.3
1	L	157	GLY	10.3
2	M	219	GLN	10.3
1	B	46	SER	10.3
2	M	555	ALA	10.3
2	M	231	PRO	10.3
2	C	1001	VAL	10.2
3	D	233	LYS	10.2
2	C	732	ALA	10.2
2	C	1022	GLY	10.2
3	D	1070	TYR	10.2
2	C	727	PRO	10.2
2	C	170	PRO	10.1
2	M	375	SER	10.1
3	N	944	THR	10.1
1	B	187	GLY	10.1
3	D	1409	ALA	10.1
1	A	158	ILE	10.1
2	C	1023	GLY	10.1
2	M	49	ARG	10.1
5	P	414	ARG	10.1
3	N	1317	ASP	10.0
5	P	413	SER	10.0
2	M	1023	GLY	10.0
5	P	106	VAL	10.0
5	P	363	GLU	9.9
3	D	589	ALA	9.9
5	P	103	ALA	9.9
2	C	785	VAL	9.9
2	C	377	PRO	9.8
3	N	1066	THR	9.8
1	K	126	ASP	9.8
3	N	945	SER	9.8
3	N	1069	GLU	9.8
3	D	851	LEU	9.8
2	M	234	ALA	9.8
5	F	91	VAL	9.8
1	L	191	ASP	9.7
2	M	173	ASP	9.7
1	L	158	ILE	9.7
1	A	156	HIS	9.7

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Mol	Chain	Res	Type	RSRZ
1	B	161	ARG	9.7
1	L	189	ARG	9.7
3	N	869	MET	9.7
1	B	157	GLY	9.7
2	M	617	ASP	9.7
2	M	47	ALA	9.7
3	D	1505	ALA	9.7
2	C	379	GLU	9.7
5	F	183	ALA	9.7
1	B	150	TYR	9.7
2	M	21	ILE	9.6
2	C	504	GLU	9.6
1	B	159	LYS	9.6
2	C	1002	GLU	9.6
2	M	233	GLU	9.6
2	M	523	ILE	9.6
3	N	1444	THR	9.6
2	M	1022	GLY	9.6
2	M	1061	GLU	9.6
2	M	16	PRO	9.5
5	F	394	ARG	9.5
1	B	91	ASN	9.5
2	M	20	GLU	9.5
2	C	252	LYS	9.5
2	M	1025	ALA	9.5
2	C	589	ARG	9.4
5	P	334	PRO	9.4
5	P	329	TYR	9.4
2	M	230	ARG	9.4
2	M	23	VAL	9.4
1	A	155	LYS	9.4
2	M	521	PRO	9.3
1	B	151	VAL	9.3
2	M	182	VAL	9.3
5	P	180	GLY	9.3
3	D	1419	PRO	9.3
2	C	1077	PRO	9.2
2	M	46	ALA	9.2
2	C	15	LEU	9.2
3	N	871	LYS	9.2
3	N	138	LYS	9.2
2	M	931	GLY	9.2

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Mol	Chain	Res	Type	RSRZ
3	N	1337	GLU	9.2
2	M	350	ARG	9.2
2	M	353	ARG	9.2
1	L	97	VAL	9.2
5	P	144	ILE	9.2
1	L	118	ALA	9.2
2	M	954	THR	9.2
2	M	729	LEU	9.2
3	D	843	PHE	9.1
2	C	227	PHE	9.1
3	D	1360	GLY	9.1
1	A	16	GLN	9.1
1	L	159	LYS	9.1
5	F	180	GLY	9.1
2	M	1066	ALA	9.1
1	A	216	GLU	9.1
2	M	589	ARG	9.1
5	F	414	ARG	9.0
4	O	95	GLY	9.0
3	D	20	SER	9.0
2	C	23	VAL	9.0
2	M	198	ARG	9.0
2	M	48	PHE	9.0
3	D	441	ARG	9.0
5	P	360	LYS	9.0
3	D	594	PRO	8.9
2	C	508	ILE	8.9
2	M	114	PHE	8.9
3	D	365	ASP	8.9
3	N	223	LEU	8.9
2	C	166	PRO	8.9
3	N	364	GLY	8.9
3	N	801	GLY	8.9
2	M	267	TYR	8.9
4	E	52	GLU	8.9
3	N	846	PRO	8.9
5	F	120	THR	8.9
4	O	47	LYS	8.8
1	K	128	HIS	8.8
2	M	179	ASN	8.8
2	C	1025	ALA	8.8
3	D	229	ALA	8.8

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Mol	Chain	Res	Type	RSRZ
3	N	1138	ALA	8.8
2	M	93	PRO	8.8
5	P	245	GLN	8.8
3	D	852	ALA	8.8
3	D	1400	VAL	8.8
1	B	191	ASP	8.8
1	L	46	SER	8.7
5	P	315	VAL	8.7
3	N	534	ARG	8.7
3	N	504	ASP	8.7
2	M	116	GLY	8.7
1	A	151	VAL	8.7
2	C	762	LYS	8.7
5	F	182	ALA	8.7
2	C	21	ILE	8.7
2	C	263	ASP	8.7
2	M	171	TRP	8.7
1	B	184	THR	8.7
1	A	159	LYS	8.7
3	D	408	GLU	8.7
2	C	376	ARG	8.6
5	P	102	LEU	8.6
2	M	166	PRO	8.6
3	D	155	ASP	8.6
5	F	241	TRP	8.6
1	L	89	PHE	8.6
3	N	1315	ASP	8.6
1	K	155	LYS	8.6
1	K	159	LYS	8.6
3	D	1073	SER	8.6
2	C	729	LEU	8.6
2	C	114	PHE	8.6
2	M	379	GLU	8.6
2	M	183	SER	8.6
2	M	554	ASP	8.6
5	P	109	GLY	8.5
2	M	380	ALA	8.5
3	D	595	GLY	8.5
3	N	67	ARG	8.5
2	M	509	ALA	8.5
3	D	440	VAL	8.5
5	P	339	PRO	8.5

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Mol	Chain	Res	Type	RSRZ
3	N	867	ARG	8.5
3	D	1340	GLY	8.5
3	N	1269	LYS	8.5
2	C	422	ARG	8.5
1	A	126	ASP	8.4
2	M	933	GLY	8.4
3	N	1358	ALA	8.4
1	A	107	LYS	8.4
3	N	1478	SER	8.4
2	C	1000	MET	8.4
2	M	983	ILE	8.4
2	C	171	TRP	8.4
2	C	663	ASN	8.4
3	N	1360	GLY	8.4
3	D	1336	LEU	8.4
2	M	1077	PRO	8.4
2	C	221	LEU	8.4
2	M	15	LEU	8.4
5	F	334	PRO	8.4
2	C	554	ASP	8.3
2	M	2	GLU	8.3
3	N	810	GLU	8.3
5	F	363	GLU	8.3
5	F	177	ALA	8.3
2	M	955	PRO	8.3
3	N	594	PRO	8.3
5	F	95	THR	8.3
3	D	855	HIS	8.3
2	C	24	GLU	8.3
5	P	75	ILE	8.3
2	M	170	PRO	8.3
1	B	189	ARG	8.3
2	M	1114	GLY	8.2
2	C	512	ARG	8.2
2	C	85	GLU	8.2
2	M	1002	GLU	8.2
5	F	423	ASP	8.2
2	C	86	LYS	8.2
2	C	165	LEU	8.2
2	M	378	LEU	8.2
3	D	867	ARG	8.2
3	N	808	THR	8.2

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Mol	Chain	Res	Type	RSRZ
3	D	844	ALA	8.2
3	D	237	LYS	8.2
5	P	183	ALA	8.1
3	D	853	VAL	8.1
3	D	504	ASP	8.1
3	N	552	ASN	8.1
5	P	385	GLU	8.1
2	C	983	ILE	8.1
2	M	181	VAL	8.1
2	C	46	ALA	8.1
2	M	982	PRO	8.0
3	D	561	GLY	8.0
3	D	969	ARG	8.0
2	C	1066	ALA	8.0
2	M	176	VAL	7.9
3	D	640	HIS	7.9
2	M	984	GLU	7.9
2	M	732	ALA	7.9
2	C	183	SER	7.9
3	N	595	GLY	7.9
2	C	232	GLU	7.9
5	P	332	PHE	7.9
2	C	1004	LYS	7.9
5	F	74	LYS	7.9
1	K	156	HIS	7.9
5	P	421	PHE	7.9
2	C	41	ASN	7.9
2	C	523	ILE	7.9
2	C	881	ASN	7.8
3	D	22	SER	7.8
3	D	801	GLY	7.8
3	D	108	VAL	7.8
2	M	553	ASP	7.8
3	D	847	ASP	7.8
1	L	185	ARG	7.8
2	C	1065	ALA	7.8
2	M	422	ARG	7.8
2	M	195	LEU	7.8
5	F	245	GLN	7.8
1	L	125	PRO	7.7
2	M	512	ARG	7.7
2	M	556	ASN	7.7

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Mol	Chain	Res	Type	RSRZ
3	N	22	SER	7.7
2	C	516	ARG	7.7
3	D	1342	GLU	7.7
5	F	283	GLY	7.7
1	B	148	VAL	7.7
2	C	195	LEU	7.7
4	E	95	GLY	7.7
3	N	1072	ILE	7.7
2	M	525	SER	7.7
2	M	169	GLY	7.7
3	N	365	ASP	7.6
1	B	120	VAL	7.6
3	N	108	VAL	7.6
2	M	156	GLY	7.6
3	D	236	TYR	7.6
2	C	1003	ASP	7.6
2	C	1024	LYS	7.6
1	B	125	PRO	7.6
3	D	854	ALA	7.6
2	M	1118	LYS	7.6
5	P	141	VAL	7.6
3	N	589	ALA	7.5
3	D	1074	SER	7.5
3	N	1342	GLU	7.5
4	E	51	LEU	7.5
5	F	184	ARG	7.5
1	K	151	VAL	7.5
2	C	511	GLU	7.5
2	M	235	LEU	7.5
2	M	113	VAL	7.5
2	M	144	PRO	7.5
3	D	70	GLY	7.5
1	B	190	THR	7.5
3	N	411	THR	7.5
3	N	453	ASP	7.4
4	O	51	LEU	7.4
5	P	241	TRP	7.4
3	D	593	ASN	7.4
5	F	119	ILE	7.4
3	N	1074	SER	7.4
3	N	506	GLY	7.4
3	D	945	SER	7.4

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Mol	Chain	Res	Type	RSRZ
3	D	1341	PRO	7.4
2	C	553	ASP	7.4
3	N	852	ALA	7.4
5	F	390	PHE	7.4
2	C	204	GLN	7.4
3	D	857	ILE	7.4
2	C	192	PRO	7.3
3	N	844	ALA	7.3
2	M	192	PRO	7.3
5	F	185	GLN	7.3
2	C	233	GLU	7.3
2	C	981	GLU	7.3
3	D	159	ARG	7.3
5	F	413	SER	7.3
3	N	1341	PRO	7.3
4	O	78	ASN	7.3
2	C	619	ARG	7.3
3	N	414	ARG	7.3
3	N	1340	GLY	7.3
5	P	321	ILE	7.3
2	M	558	ALA	7.2
3	N	853	VAL	7.2
3	D	189	GLN	7.2
5	P	182	ALA	7.2
5	F	421	PHE	7.2
3	D	587	ARG	7.2
3	D	223	LEU	7.2
5	P	340	SER	7.2
3	D	807	ALA	7.2
1	K	31	GLY	7.2
2	M	898	GLY	7.2
5	F	181	GLU	7.1
2	M	229	MET	7.1
2	M	1000	MET	7.1
3	D	944	THR	7.1
1	A	153	ALA	7.1
2	C	731	GLU	7.1
5	P	416	ARG	7.1
3	N	705	ALA	7.1
2	C	502	PRO	7.1
3	N	1128	VAL	7.1
1	B	186	LEU	7.1

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Mol	Chain	Res	Type	RSRZ
2	M	591	SER	7.1
2	C	49	ARG	7.1
3	D	1066	THR	7.1
2	C	262	ALA	7.1
3	N	1439	SER	7.1
1	A	152	PRO	7.1
2	M	36	PRO	7.1
3	D	856	GLY	7.1
3	N	1051	GLU	7.1
2	M	1024	LYS	7.0
2	M	586	ARG	7.0
2	C	558	ALA	7.0
1	B	149	GLY	7.0
2	C	70	GLU	7.0
3	N	149	LYS	7.0
3	N	855	HIS	7.0
5	P	333	ILE	7.0
2	M	41	ASN	7.0
2	C	43	GLY	7.0
1	A	213	GLN	7.0
3	N	845	ASN	7.0
3	N	1443	THR	7.0
5	F	186	HIS	7.0
2	C	235	LEU	7.0
3	N	1013	GLU	7.0
4	E	43	GLU	7.0
1	B	160	ASP	7.0
3	D	438	ASP	7.0
2	M	348	LEU	6.9
2	M	252	LYS	6.9
3	D	404	GLU	6.9
2	C	526	PRO	6.9
2	M	417	GLY	6.9
3	N	1408	ILE	6.9
2	M	221	LEU	6.9
3	N	965	GLU	6.9
2	C	350	ARG	6.8
2	M	167	LYS	6.8
2	M	1117	SER	6.8
2	C	222	MET	6.8
2	M	981	GLU	6.8
5	P	186	HIS	6.8

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Mol	Chain	Res	Type	RSRZ
5	P	145	PRO	6.8
2	C	417	GLY	6.8
2	C	253	ALA	6.7
2	M	273	GLY	6.7
5	P	176	ILE	6.7
3	D	562	ALA	6.7
4	O	14	ASP	6.7
2	C	557	ARG	6.7
2	C	81	ASP	6.6
1	A	128	HIS	6.6
2	M	515	ALA	6.6
2	M	82	GLU	6.6
3	D	138	LYS	6.6
2	C	559	LEU	6.6
5	P	121	GLY	6.6
2	C	225	SER	6.6
3	D	586	ARG	6.5
3	D	717	GLN	6.5
1	B	182	GLU	6.5
1	L	184	THR	6.5
2	C	1069	ALA	6.5
5	P	177	ALA	6.5
2	C	209	ARG	6.5
5	P	355	GLU	6.5
2	M	354	GLY	6.5
1	B	94	LEU	6.5
2	C	349	ALA	6.5
3	N	229	ALA	6.5
2	C	560	MET	6.5
3	D	69	GLU	6.5
4	O	3	GLU	6.5
5	F	117	SER	6.5
3	N	586	ARG	6.5
2	M	520	GLU	6.4
5	F	389	PHE	6.4
3	N	1418	LYS	6.4
5	F	122	LEU	6.4
3	N	1014	ASN	6.4
2	M	349	ALA	6.4
2	C	116	GLY	6.4
2	M	557	ARG	6.4
1	L	183	ASP	6.4

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Mol	Chain	Res	Type	RSRZ
1	L	120	VAL	6.4
5	F	392	VAL	6.4
2	M	344	PHE	6.4
5	P	338	LEU	6.4
1	B	185	ARG	6.4
3	N	1110	ALA	6.4
3	N	873	LEU	6.3
3	N	533	GLY	6.3
1	B	47	SER	6.3
3	N	1441	GLN	6.3
2	M	1012	PRO	6.3
2	M	112	GLU	6.3
3	N	1067	VAL	6.3
5	F	106	VAL	6.3
2	M	793	PRO	6.3
3	N	1232	PRO	6.3
5	P	143	HIS	6.3
3	N	147	VAL	6.3
2	C	196	LEU	6.3
2	M	559	LEU	6.3
2	M	85	GLU	6.3
2	M	203	ASP	6.3
4	O	53	GLY	6.3
1	K	216	GLU	6.3
2	M	232	GLU	6.3
2	C	501	THR	6.3
3	D	943	THR	6.3
4	O	50	THR	6.3
3	D	869	MET	6.2
1	K	32	PHE	6.2
2	C	381	ALA	6.2
5	F	103	ALA	6.2
2	C	775	ARG	6.2
4	O	49	GLN	6.2
1	L	47	SER	6.2
3	N	943	THR	6.2
3	N	1438	ALA	6.2
2	M	199	VAL	6.2
5	F	136	LEU	6.2
1	K	30	ARG	6.2
3	D	1068	LEU	6.2
1	B	117	VAL	6.2

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Mol	Chain	Res	Type	RSRZ
1	K	108	GLU	6.2
5	P	98	GLU	6.2
2	C	1062	GLY	6.2
3	D	877	PRO	6.2
3	N	561	GLY	6.2
3	N	872	ARG	6.2
3	N	157	GLU	6.1
2	M	881	ASN	6.1
2	C	45	GLN	6.1
2	C	1076	VAL	6.1
2	M	14	PRO	6.1
2	C	149	THR	6.1
3	N	590	PRO	6.1
2	C	1118	LYS	6.1
2	C	255	ALA	6.1
2	M	1064	ASN	6.1
3	D	1072	ILE	6.1
2	C	173	ASP	6.1
3	D	1315	ASP	6.1
5	P	423	ASP	6.1
1	L	186	LEU	6.0
2	M	165	LEU	6.0
3	N	809	PRO	6.0
2	M	96	ALA	6.0
3	D	848	GLU	6.0
3	D	1069	GLU	6.0
2	C	457	ALA	6.0
2	M	731	GLU	6.0
3	N	752	SER	6.0
5	P	296	GLY	6.0
2	M	511	GLU	6.0
5	P	90	GLN	6.0
3	D	845	ASN	6.0
3	D	638	LYS	6.0
2	M	560	MET	6.0
2	C	156	GLY	6.0
2	M	524	VAL	6.0
2	M	251	ASP	5.9
3	N	1362	LYS	5.9
3	N	946	GLY	5.9
2	M	186	VAL	5.9
3	N	1446	VAL	5.9

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Mol	Chain	Res	Type	RSRZ
3	D	965	GLU	5.9
1	A	189	ARG	5.9
2	M	79	PRO	5.9
2	M	187	ASN	5.9
5	F	146	GLY	5.9
3	N	528	VAL	5.9
2	M	68	PHE	5.9
3	D	240	GLU	5.9
2	C	793	PRO	5.8
3	N	1359	GLN	5.8
2	M	879	ARG	5.8
2	M	319	GLY	5.8
2	M	24	GLU	5.8
2	C	182	VAL	5.8
3	D	641	GLN	5.8
3	N	66	GLN	5.8
2	M	268	ASP	5.8
5	F	300	ASP	5.8
3	N	1252	ILE	5.8
2	C	441	VAL	5.8
1	K	152	PRO	5.7
5	F	301	ALA	5.7
5	P	101	GLU	5.7
2	C	591	SER	5.7
3	N	591	VAL	5.7
2	M	77	PRO	5.7
2	C	507	ARG	5.7
3	N	1137	ARG	5.7
3	N	604	THR	5.7
2	C	267	TYR	5.7
3	N	224	ARG	5.7
3	N	850	LEU	5.7
1	L	121	GLU	5.7
5	F	335	ASP	5.7
3	D	697	GLY	5.7
2	C	172	ILE	5.7
2	C	197	LEU	5.7
1	B	121	GLU	5.7
3	N	122	GLU	5.7
4	E	2	ALA	5.7
5	F	87	GLU	5.7
3	N	717	GLN	5.7

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Mol	Chain	Res	Type	RSRZ
3	D	122	GLU	5.6
3	D	1077	ALA	5.6
2	C	191	PHE	5.6
5	F	203	THR	5.6
2	M	71	TYR	5.6
3	N	1361	VAL	5.6
1	K	67	THR	5.6
5	F	145	PRO	5.6
2	C	193	LEU	5.6
5	F	358	LEU	5.6
5	F	355	GLU	5.6
1	A	130	ALA	5.6
3	N	1483	PHE	5.6
3	D	946	GLY	5.6
3	D	966	GLU	5.6
5	P	74	LYS	5.6
3	D	1359	GLN	5.6
2	C	50	GLU	5.5
2	C	238	LEU	5.5
5	P	181	GLU	5.5
3	D	1252	ILE	5.5
5	F	411	HIS	5.5
3	N	20	SER	5.5
5	P	91	VAL	5.5
3	D	418	GLY	5.5
2	M	164	PRO	5.5
5	P	105	LYS	5.5
2	M	266	ARG	5.5
2	C	29	ALA	5.5
3	N	1437	ALA	5.5
3	N	859	ASP	5.5
1	A	5	LYS	5.5
2	C	984	GLU	5.5
3	N	1336	LEU	5.5
3	N	139	GLY	5.4
5	P	120	THR	5.4
1	L	163	ASN	5.4
1	A	105	GLY	5.4
2	M	200	LEU	5.4
3	D	752	SER	5.4
3	D	1358	ALA	5.4
2	C	1075	ASP	5.4

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Mol	Chain	Res	Type	RSRZ
2	C	1012	PRO	5.4
2	M	775	ARG	5.4
5	P	82	ARG	5.4
4	E	78	ASN	5.4
2	C	346	VAL	5.4
3	N	640	HIS	5.4
2	C	219	GLN	5.3
1	A	154	GLU	5.3
2	C	77	PRO	5.3
2	M	124	ASP	5.3
2	M	1079	PRO	5.3
3	N	592	THR	5.3
2	C	47	ALA	5.3
2	M	272	ALA	5.3
3	N	1077	ALA	5.3
2	C	256	TYR	5.3
3	D	799	LYS	5.3
3	D	1442	ASN	5.3
3	D	1239	ARG	5.3
2	C	1117	SER	5.3
4	E	53	GLY	5.3
3	N	94	GLU	5.3
5	P	140	ARG	5.3
1	K	147	GLY	5.3
1	B	158	ILE	5.3
1	A	186	LEU	5.3
1	B	156	HIS	5.2
2	M	296	GLY	5.2
3	N	558	LEU	5.2
5	P	358	LEU	5.2
3	D	157	GLU	5.2
3	N	1285	GLU	5.2
3	N	1445	HIS	5.2
5	F	336	GLU	5.2
2	M	185	LYS	5.2
2	M	381	ALA	5.2
2	M	985	GLY	5.2
2	M	45	GLN	5.2
2	C	278	GLU	5.2
5	P	179	GLU	5.2
4	O	44	GLU	5.2
2	M	763	GLY	5.2

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Mol	Chain	Res	Type	RSRZ
1	L	192	LEU	5.2
1	K	29	GLU	5.1
5	P	411	HIS	5.1
2	C	283	ILE	5.1
5	F	312	GLN	5.1
2	C	706	GLU	5.1
4	E	3	GLU	5.1
1	A	20	TYR	5.1
2	M	72	ARG	5.1
3	D	439	LEU	5.1
3	N	800	LYS	5.1
3	D	1343	ALA	5.1
1	K	47	SER	5.1
3	D	800	LYS	5.1
5	P	335	ASP	5.1
3	N	1233	GLY	5.1
5	F	89	GLY	5.1
5	F	357	ALA	5.1
5	F	356	LYS	5.0
1	A	15	THR	5.0
2	C	42	VAL	5.0
2	C	35	PRO	5.0
2	C	519	GLY	5.0
3	D	364	GLY	5.0
5	P	387	GLY	5.0
4	O	48	MET	5.0
2	C	115	LEU	5.0
2	C	717	LEU	5.0
2	M	677	MET	5.0
3	N	706	PRO	5.0
2	M	177	GLU	5.0
3	N	966	GLU	5.0
2	C	517	ARG	5.0
3	N	415	VAL	5.0
3	N	638	LYS	5.0
2	C	1078	GLU	5.0
5	P	89	GLY	5.0
3	D	1225	ALA	4.9
5	P	139	ALA	4.9
1	B	112	ARG	4.9
2	C	859	PRO	4.9
3	D	846	PRO	4.9

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Mol	Chain	Res	Type	RSRZ
2	C	226	VAL	4.9
2	M	876	VAL	4.9
3	N	1129	THR	4.9
5	F	340	SER	4.9
3	N	551	ASN	4.9
3	N	225	LEU	4.9
3	N	1343	ALA	4.9
2	C	1119	ARG	4.9
2	M	222	MET	4.9
2	C	38	LYS	4.9
3	N	1131	SER	4.9
3	N	1356	TYR	4.9
2	C	932	GLU	4.9
2	M	1076	VAL	4.9
2	C	704	HIS	4.9
5	P	405	LEU	4.9
2	C	979	THR	4.8
3	N	1071	PHE	4.8
2	C	257	VAL	4.8
3	D	858	VAL	4.8
2	C	198	ARG	4.8
2	C	249	LYS	4.8
4	O	5	GLY	4.8
3	N	536	ALA	4.8
3	D	810	GLU	4.8
2	M	785	VAL	4.8
3	D	1128	VAL	4.8
2	C	816	LYS	4.8
1	A	214	ALA	4.8
2	C	767	PRO	4.8
5	F	305	GLU	4.8
2	C	446	GLY	4.8
3	N	233	LYS	4.8
2	C	733	ALA	4.7
2	M	262	ALA	4.7
2	M	1026	GLN	4.7
2	M	191	PHE	4.7
3	D	1065	LEU	4.7
3	N	1065	LEU	4.7
4	O	55	PHE	4.7
1	A	4	SER	4.7
2	C	765	SER	4.7

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Mol	Chain	Res	Type	RSRZ
3	D	591	VAL	4.7
3	N	1286	THR	4.7
2	M	950	LEU	4.7
5	P	344	ALA	4.7
2	M	1119	ARG	4.7
5	F	361	LEU	4.7
2	M	441	VAL	4.7
2	M	172	ILE	4.7
5	F	135	ILE	4.7
1	A	210	ALA	4.7
2	M	947	ALA	4.7
1	L	156	HIS	4.7
3	D	859	ASP	4.7
2	M	351	LEU	4.7
2	M	875	GLY	4.6
1	L	88	ARG	4.6
2	M	1113	GLU	4.6
1	A	160	ASP	4.6
2	C	326	ASP	4.6
2	M	464	LEU	4.6
3	N	121	THR	4.6
3	N	798	GLU	4.6
5	F	179	GLU	4.6
3	D	928	ALA	4.6
3	N	791	TYR	4.6
2	C	328	LEU	4.6
2	M	196	LEU	4.6
2	C	664	GLY	4.6
5	P	419	ARG	4.6
3	D	552	ASN	4.6
2	C	264	PRO	4.6
5	F	167	PRO	4.6
2	M	75	GLU	4.6
3	D	160	GLU	4.6
5	P	384	GLU	4.6
1	A	212	ASN	4.6
1	B	152	PRO	4.6
3	N	1419	PRO	4.6
2	M	1021	LEU	4.6
5	F	94	LEU	4.6
2	C	206	THR	4.6
5	P	184	ARG	4.5

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Mol	Chain	Res	Type	RSRZ
1	B	183	ASP	4.5
5	P	410	TYR	4.5
2	M	283	ILE	4.5
3	N	548	ILE	4.5
2	C	675	ALA	4.5
2	C	342	ASP	4.5
3	D	430	ASP	4.5
3	N	947	ILE	4.5
2	M	37	GLU	4.5
3	D	1380	GLU	4.5
5	F	75	ILE	4.5
1	B	45	LEU	4.5
2	M	1078	GLU	4.5
2	C	78	PHE	4.4
4	E	94	PRO	4.4
2	M	197	LEU	4.4
2	M	550	LEU	4.4
1	A	109	VAL	4.4
1	L	146	ARG	4.4
2	C	879	ARG	4.4
1	L	216	GLU	4.4
2	C	2	GLU	4.4
3	N	1231	GLU	4.4
2	C	60	GLY	4.4
1	B	43	ILE	4.4
2	C	250	ARG	4.4
3	D	414	ARG	4.4
3	D	1417	TRP	4.4
2	C	378	LEU	4.4
3	N	860	LEU	4.4
2	C	445	GLU	4.4
2	C	528	GLU	4.4
4	E	50	THR	4.4
3	D	443	VAL	4.4
4	E	48	MET	4.4
5	P	367	MET	4.4
5	P	343	ASP	4.4
2	C	812	GLY	4.3
3	N	1095	THR	4.3
2	M	542	VAL	4.3
3	D	1361	VAL	4.3
3	D	1503	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
1	B	127	LEU	4.3
3	D	250	LEU	4.3
5	P	94	LEU	4.3
2	C	999	HIS	4.3
2	M	979	THR	4.3
5	F	144	ILE	4.3
5	F	96	LEU	4.3
2	M	878	SER	4.3
2	M	1075	ASP	4.3
3	N	230	TRP	4.3
2	C	254	VAL	4.3
2	C	876	VAL	4.3
3	D	1362	LYS	4.3
5	F	281	GLU	4.3
2	C	880	MET	4.3
2	M	844	GLY	4.3
3	D	871	LYS	4.3
3	N	866	VAL	4.3
5	P	336	GLU	4.3
2	C	174	LEU	4.3
1	A	118	ALA	4.3
2	C	998	TYR	4.3
2	C	203	ASP	4.2
2	M	204	GLN	4.2
3	D	121	THR	4.2
2	C	1074	GLU	4.2
5	F	116	LEU	4.2
2	C	460	ARG	4.2
2	M	265	ARG	4.2
2	M	517	ARG	4.2
3	N	136	ASP	4.2
3	N	402	PRO	4.2
5	F	92	PRO	4.2
3	D	167	GLU	4.2
2	C	239	PHE	4.2
1	B	192	LEU	4.2
2	C	168	ARG	4.2
5	P	138	SER	4.2
2	C	201	GLY	4.2
2	C	933	GLY	4.2
2	C	777	ILE	4.2
3	D	1287	GLU	4.2

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Mol	Chain	Res	Type	RSRZ
3	D	1444	THR	4.2
2	C	783	ARG	4.2
2	M	73	LEU	4.2
2	M	516	ARG	4.2
2	M	627	ARG	4.2
2	C	811	PRO	4.2
3	N	583	ASP	4.2
3	N	188	GLY	4.2
5	P	322	GLY	4.2
2	C	175	GLU	4.2
2	M	1038	TRP	4.2
3	N	535	PHE	4.2
3	D	757	ALA	4.2
2	M	193	LEU	4.1
5	F	405	LEU	4.1
2	M	59	LYS	4.1
2	C	521	PRO	4.1
2	C	296	GLY	4.1
3	N	1380	GLU	4.1
5	P	87	GLU	4.1
5	P	104	ARG	4.1
2	M	238	LEU	4.1
3	D	1502	ALA	4.1
2	M	727	PRO	4.1
5	F	419	ARG	4.1
2	C	69	LEU	4.1
5	P	100	VAL	4.1
1	K	130	ALA	4.1
3	N	146	PRO	4.1
5	P	357	ALA	4.1
2	C	80	GLN	4.1
3	N	584	ASN	4.1
2	C	844	GLY	4.1
2	M	43	GLY	4.1
3	N	596	SER	4.1
2	C	1021	LEU	4.1
2	C	488	ALA	4.0
3	N	1225	ALA	4.0
5	F	402	ASN	4.0
1	A	14	ARG	4.0
1	K	191	ASP	4.0
2	C	875	GLY	4.0

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Mol	Chain	Res	Type	RSRZ
1	K	6	LEU	4.0
1	K	127	LEU	4.0
3	N	242	LEU	4.0
3	D	1067	VAL	4.0
3	N	1451	ALA	4.0
2	C	265	ARG	4.0
3	N	69	GLU	4.0
4	O	96	GLU	4.0
3	N	1454	GLY	4.0
2	M	69	LEU	4.0
1	K	148	VAL	4.0
3	D	842	VAL	4.0
2	C	248	PRO	4.0
2	C	982	PRO	4.0
3	N	641	GLN	4.0
5	P	314	PRO	4.0
2	M	70	GLU	4.0
2	M	278	GLU	4.0
3	D	413	ASP	4.0
3	N	155	ASP	4.0
2	C	261	ILE	4.0
3	N	158	TYR	4.0
1	L	42	ARG	4.0
2	M	802	ARG	4.0
5	F	385	GLU	4.0
1	B	155	LYS	4.0
2	M	488	ALA	4.0
4	E	14	ASP	4.0
2	M	44	ILE	4.0
3	N	554	LEU	4.0
5	F	141	VAL	4.0
2	M	1004	LYS	3.9
3	N	697	GLY	3.9
3	N	851	LEU	3.9
2	M	587	VAL	3.9
5	P	108	GLU	3.9
2	C	761	PHE	3.9
5	P	402	ASN	3.9
1	B	217	ILE	3.9
3	N	847	ASP	3.9
5	F	105	LYS	3.9
2	C	186	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
2	C	764	GLU	3.9
3	N	620	GLY	3.9
3	N	1229	ILE	3.9
3	N	1479	ASP	3.9
3	D	14	SER	3.9
3	N	1436	SER	3.9
2	M	50	GLU	3.9
3	N	189	GLN	3.9
4	O	43	GLU	3.9
1	A	86	VAL	3.9
3	N	599	PRO	3.9
3	N	719	VAL	3.9
3	N	1450	ALA	3.9
3	N	617	ASN	3.9
3	N	696	HIS	3.9
3	D	558	LEU	3.9
3	D	1420	LEU	3.9
2	C	335	THR	3.9
2	C	443	THR	3.9
5	F	100	VAL	3.9
1	B	169	ALA	3.8
3	N	1409	ALA	3.8
3	D	583	ASP	3.8
3	D	1314	LYS	3.8
2	C	217	LEU	3.8
3	D	554	LEU	3.8
2	C	40	GLU	3.8
3	D	1127	GLU	3.8
3	N	27	GLU	3.8
2	M	346	VAL	3.8
3	N	26	VAL	3.8
2	M	376	ARG	3.8
3	N	593	ASN	3.8
3	D	241	ILE	3.8
4	O	54	LEU	3.8
5	F	248	ASN	3.8
2	M	932	GLU	3.8
2	C	794	PRO	3.8
3	N	1314	LYS	3.8
2	C	48	PHE	3.8
2	C	1027	PHE	3.8
1	L	127	LEU	3.8

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Mol	Chain	Res	Type	RSRZ
2	M	159	ILE	3.8
2	M	163	ILE	3.8
3	N	1447	LEU	3.8
2	C	495	THR	3.7
2	M	433	THR	3.7
1	A	110	LYS	3.7
3	N	1440	PHE	3.7
4	O	2	ALA	3.7
5	F	374	GLY	3.7
1	L	217	ILE	3.7
3	D	551	ASN	3.7
5	F	98	GLU	3.7
5	P	361	LEU	3.7
2	C	327	HIS	3.7
3	D	68	PHE	3.7
1	A	187	GLY	3.7
3	D	214	GLU	3.7
5	F	422	LEU	3.7
3	D	597	ASP	3.7
1	B	42	ARG	3.7
3	D	26	VAL	3.7
2	M	618	GLY	3.7
3	N	856	GLY	3.7
2	M	76	PRO	3.7
1	K	150	TYR	3.7
3	D	224	ARG	3.7
2	C	587	VAL	3.7
2	M	306	THR	3.7
2	M	117	HIS	3.7
3	D	696	HIS	3.7
3	N	837	GLY	3.7
1	A	188	GLN	3.7
1	B	92	PRO	3.7
2	C	124	ASP	3.7
2	M	39	ARG	3.7
2	M	123	GLU	3.6
3	N	501	ALA	3.6
5	F	388	ALA	3.6
5	F	88	ILE	3.6
3	D	1014	ASN	3.6
2	C	954	THR	3.6
2	C	1080	SER	3.6

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Mol	Chain	Res	Type	RSRZ
4	O	15	SER	3.6
2	M	174	LEU	3.6
2	M	328	LEU	3.6
2	M	779	GLY	3.6
3	D	1483	PHE	3.6
3	N	135	LEU	3.6
3	N	1050	GLY	3.6
2	M	150	PRO	3.6
1	B	124	ASN	3.6
2	M	771	GLU	3.6
3	N	1158	VAL	3.6
2	M	184	MET	3.6
3	N	587	ARG	3.6
5	F	93	LEU	3.6
5	F	338	LEU	3.6
3	D	590	PRO	3.6
3	D	868	TYR	3.6
2	C	306	THR	3.6
2	M	1080	SER	3.6
3	N	1049	SER	3.6
2	M	945	ARG	3.6
5	F	354	LEU	3.6
5	P	369	LEU	3.6
2	C	44	ILE	3.6
3	D	563	PRO	3.6
2	C	324	ASP	3.6
2	C	317	VAL	3.5
2	M	202	TYR	3.5
4	O	93	TYR	3.5
3	D	753	SER	3.5
5	F	242	TRP	3.5
2	C	319	GLY	3.5
4	E	42	PRO	3.5
5	F	176	ILE	3.5
3	D	578	VAL	3.5
2	C	207	LEU	3.5
3	D	618	LEU	3.5
3	D	751	LEU	3.5
5	F	369	LEU	3.5
4	O	92	ILE	3.5
3	N	1053	PHE	3.5
2	C	345	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
2	M	1037	VAL	3.5
4	O	13	VAL	3.5
3	N	1421	LEU	3.5
2	C	337	GLY	3.5
3	N	96	ALA	3.5
4	O	64	ALA	3.5
3	N	565	ILE	3.5
2	M	976	ASP	3.5
5	P	118	GLU	3.5
3	D	872	ARG	3.5
3	D	860	LEU	3.5
3	D	158	TYR	3.5
1	L	145	ASP	3.4
2	M	706	GLU	3.4
3	N	1344	VAL	3.4
4	E	49	GLN	3.4
2	M	304	LEU	3.4
5	P	422	LEU	3.4
2	C	231	PRO	3.4
3	D	506	GLY	3.4
2	C	660	ALA	3.4
2	C	786	LYS	3.4
3	D	106	LYS	3.4
1	K	158	ILE	3.4
3	D	185	VAL	3.4
3	D	592	THR	3.4
5	P	112	ALA	3.4
3	N	567	ILE	3.4
3	N	692	GLU	3.4
1	K	86	VAL	3.4
2	M	162	ILE	3.4
3	D	577	ALA	3.4
3	D	766	ALA	3.4
3	N	392	SER	3.4
2	M	275	TYR	3.4
3	N	234	GLU	3.4
3	D	948	THR	3.4
5	F	339	PRO	3.4
2	C	561	GLY	3.4
2	C	779	GLY	3.4
3	D	184	GLU	3.4
3	D	1130	ARG	3.4

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Mol	Chain	Res	Type	RSRZ
2	C	878	SER	3.4
1	K	1	MET	3.3
1	L	123	MET	3.3
3	N	737	ASN	3.3
2	C	218	VAL	3.3
2	C	302	VAL	3.3
3	D	863	VAL	3.3
5	P	341	PRO	3.3
1	K	33	GLY	3.3
4	O	11	GLY	3.3
3	D	925	GLU	3.3
3	D	187	LYS	3.3
3	D	469	ASP	3.3
1	A	127	LEU	3.3
3	N	227	LEU	3.3
2	M	951	GLY	3.3
2	M	1047	HIS	3.3
5	F	401	GLU	3.3
5	P	395	GLU	3.3
3	D	876	SER	3.3
2	C	303	PHE	3.3
3	N	555	LYS	3.3
2	M	22	GLN	3.3
2	C	500	ASN	3.3
1	K	154	GLU	3.3
3	N	1333	HIS	3.3
5	P	294	ALA	3.3
2	M	324	ASP	3.3
3	N	107	ASP	3.3
2	C	30	LEU	3.3
2	C	331	ARG	3.3
2	M	318	PRO	3.3
2	M	420	ARG	3.3
2	M	773	LEU	3.3
4	E	54	LEU	3.3
5	F	418	LEU	3.3
2	C	795	GLY	3.3
2	M	652	GLY	3.3
3	N	1434	TRP	3.3
2	C	325	ILE	3.3
3	D	827	ILE	3.3
3	N	562	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
3	N	608	SER	3.2
3	N	1239	ARG	3.2
2	C	668	LEU	3.2
2	M	455	LEU	3.2
2	M	811	PRO	3.2
3	N	1390	LEU	3.2
2	C	205	GLU	3.2
1	B	167	VAL	3.2
2	C	588	VAL	3.2
2	C	433	THR	3.2
2	C	489	THR	3.2
2	M	864	GLY	3.2
2	C	162	ILE	3.2
5	F	113	ILE	3.2
5	F	404	ALA	3.2
2	C	665	PHE	3.2
3	D	529	GLN	3.2
3	D	1071	PHE	3.2
5	P	185	GLN	3.2
3	N	19	ARG	3.2
4	E	83	ASP	3.2
3	N	708	LEU	3.2
2	C	989	VAL	3.2
2	M	317	VAL	3.2
3	D	719	VAL	3.2
3	N	621	LYS	3.2
3	N	457	GLY	3.2
2	C	726	ILE	3.2
3	N	243	ALA	3.2
2	C	1026	GLN	3.2
2	M	81	ASP	3.2
3	D	107	ASP	3.2
2	M	949	LYS	3.2
3	D	1344	VAL	3.2
3	N	1064	GLY	3.2
1	L	43	ILE	3.2
2	M	568	ALA	3.2
2	C	68	PHE	3.2
2	C	178	PRO	3.2
2	C	310	LEU	3.2
2	C	338	GLU	3.2
2	M	217	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
2	C	131	GLY	3.2
1	A	217	ILE	3.2
2	C	163	ILE	3.2
2	C	487	THR	3.2
2	M	345	ARG	3.1
3	D	1339	LYS	3.1
3	N	1228	SER	3.1
2	C	659	PRO	3.1
3	N	1191	PRO	3.1
2	C	464	LEU	3.1
3	D	519	VAL	3.1
3	N	878	GLY	3.1
2	M	157	ARG	3.1
2	M	370	ALA	3.1
2	M	460	ARG	3.1
2	M	946	ARG	3.1
4	O	60	ALA	3.1
1	B	216	GLU	3.1
1	K	179	PHE	3.1
1	L	29	GLU	3.1
3	D	979	GLU	3.1
5	P	107	GLU	3.1
2	C	440	PRO	3.1
2	M	794	PRO	3.1
2	M	845	ASN	3.1
1	K	14	ARG	3.1
2	C	266	ARG	3.1
2	M	408	ARG	3.1
3	D	215	TYR	3.1
3	D	947	ILE	3.1
3	N	1484	THR	3.1
2	C	421	GLU	3.1
5	P	92	PRO	3.1
2	C	211	LEU	3.1
2	C	773	LEU	3.1
5	F	187	LEU	3.1
2	M	74	GLY	3.1
1	B	53	VAL	3.1
2	C	199	VAL	3.1
3	N	1047	LYS	3.1
2	C	434	HIS	3.1
2	M	434	HIS	3.1

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Mol	Chain	Res	Type	RSRZ
2	C	144	PRO	3.1
3	N	557	LEU	3.1
3	N	569	ASN	3.1
3	N	897	TRP	3.1
1	L	219	ARG	3.1
2	C	627	ARG	3.1
2	C	427	VAL	3.1
2	C	941	VAL	3.1
3	D	528	VAL	3.1
3	N	440	VAL	3.1
2	C	309	TYR	3.0
3	N	822	ALA	3.0
2	M	327	HIS	3.0
2	C	307	LEU	3.0
2	M	307	LEU	3.0
5	P	147	LEU	3.0
2	C	985	GLY	3.0
2	C	176	VAL	3.0
2	C	484	VAL	3.0
3	D	699	VAL	3.0
3	D	962	GLN	3.0
1	K	35	THR	3.0
2	C	341	THR	3.0
2	M	544	THR	3.0
3	D	773	ALA	3.0
2	C	184	MET	3.0
2	C	463	GLU	3.0
3	D	247	GLU	3.0
3	N	401	TYR	3.0
2	C	431	HIS	3.0
2	C	318	PRO	3.0
2	M	873	PRO	3.0
3	D	406	ASP	3.0
3	N	754	PHE	3.0
5	P	420	ASP	3.0
3	D	765	SER	3.0
3	N	1430	SER	3.0
1	A	91	ASN	3.0
1	A	37	GLY	3.0
1	K	87	VAL	3.0
3	D	230	TRP	3.0
3	D	866	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
2	M	92	ALA	3.0
3	D	833	GLU	3.0
5	P	97	GLU	3.0
5	P	285	GLU	3.0
2	C	214	TYR	3.0
2	M	431	HIS	3.0
2	C	503	LEU	3.0
5	F	408	LEU	3.0
5	P	362	SER	3.0
1	K	91	ASN	3.0
2	M	374	ASN	3.0
3	D	569	ASN	3.0
5	P	248	ASN	3.0
1	A	122	ILE	3.0
1	K	213	GLN	3.0
3	D	1481	VAL	3.0
3	N	566	ILE	3.0
2	M	341	THR	3.0
4	E	96	GLU	3.0
2	C	447	ALA	3.0
3	D	171	LEU	3.0
5	P	406	ARG	3.0
2	M	263	ASP	3.0
3	D	149	LYS	3.0
2	M	541	SER	3.0
5	F	195	VAL	2.9
5	P	401	GLU	2.9
1	A	185	ARG	2.9
2	C	39	ARG	2.9
2	M	507	ARG	2.9
4	O	45	ARG	2.9
2	C	550	LEU	2.9
3	N	556	LYS	2.9
1	A	191	ASP	2.9
2	C	344	PHE	2.9
2	C	125	GLY	2.9
2	C	140	ILE	2.9
2	C	486	MET	2.9
2	C	662	GLU	2.9
2	C	154	ARG	2.9
2	M	733	ALA	2.9
2	M	1084	SER	2.9

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Mol	Chain	Res	Type	RSRZ
3	N	1227	GLN	2.9
2	C	818	GLY	2.9
2	C	898	GLY	2.9
4	E	11	GLY	2.9
5	P	137	GLY	2.9
5	P	316	SER	2.9
2	C	796	GLU	2.9
5	F	400	ILE	2.9
3	D	216	VAL	2.9
3	D	1379	VAL	2.9
3	N	427	VAL	2.9
3	N	159	ARG	2.9
3	N	838	ARG	2.9
2	C	568	ALA	2.9
2	M	253	ALA	2.9
5	P	136	LEU	2.9
2	M	303	PHE	2.9
2	C	506	ASN	2.9
2	C	771	GLU	2.9
2	M	598	GLU	2.9
1	L	143	ARG	2.9
2	M	302	VAL	2.9
3	N	1194	CYS	2.9
2	C	305	PRO	2.9
2	M	305	PRO	2.9
1	K	192	LEU	2.9
2	C	774	LEU	2.9
2	M	300	ASP	2.9
5	P	125	ASP	2.9
1	K	16	GLN	2.9
3	N	841	TYR	2.9
2	M	7	GLY	2.9
2	M	1011	GLY	2.9
2	M	9	ILE	2.8
5	P	88	ILE	2.8
3	D	795	VAL	2.8
1	A	190	THR	2.8
2	C	1017	THR	2.8
5	P	237	THR	2.8
2	M	315	ALA	2.8
3	D	501	ALA	2.8
3	D	1138	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	85	LEU	2.8
2	M	592	LEU	2.8
3	D	579	ASP	2.8
5	P	242	TRP	2.8
3	D	756	GLN	2.8
2	C	210	GLU	2.8
3	D	232	GLU	2.8
3	N	160	GLU	2.8
5	F	285	GLU	2.8
5	F	395	GLU	2.8
2	C	71	TYR	2.8
2	M	1073	GLY	2.8
3	D	615	ARG	2.8
3	N	418	GLY	2.8
3	N	1199	GLY	2.8
3	N	1357	ARG	2.8
5	F	132	ARG	2.8
1	B	79	ILE	2.8
2	C	1016	ILE	2.8
3	N	18	ILE	2.8
3	D	447	VAL	2.8
3	N	623	VAL	2.8
3	D	1286	THR	2.8
2	M	1042	ALA	2.8
2	C	200	LEU	2.8
2	C	780	GLU	2.8
3	N	848	GLU	2.8
3	N	206	ARG	2.8
4	O	18	ARG	2.8
5	P	373	LYS	2.8
2	M	145	GLY	2.8
2	M	320	HIS	2.8
3	D	24	GLY	2.8
3	N	128	TYR	2.8
5	P	146	GLY	2.8
2	C	710	ILE	2.8
2	C	885	ILE	2.8
5	F	362	SER	2.8
1	B	142	VAL	2.8
2	M	42	VAL	2.8
2	C	315	ALA	2.8
5	F	311	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
5	P	203	THR	2.8
2	M	290	LEU	2.8
1	A	209	GLU	2.8
3	N	366	LYS	2.8
5	P	412	GLU	2.8
5	F	104	ARG	2.8
2	C	1073	GLY	2.8
3	N	92	HIS	2.8
3	N	1230	GLY	2.8
5	F	109	GLY	2.8
2	C	108	ILE	2.8
5	P	84	TYR	2.8
5	P	76	SER	2.8
1	K	49	PRO	2.8
3	D	1324	PRO	2.8
2	C	370	ALA	2.8
3	D	228	ALA	2.8
3	D	1403	LEU	2.8
1	A	30	ARG	2.8
2	C	626	ARG	2.8
3	D	27	GLU	2.8
3	N	575	GLN	2.8
3	D	1479	ASP	2.8
5	F	420	ASP	2.8
1	K	149	GLY	2.7
5	P	283	GLY	2.7
2	M	236	ILE	2.7
2	C	1079	PRO	2.7
2	M	629	TYR	2.7
2	M	218	VAL	2.7
4	O	39	VAL	2.7
1	K	184	THR	2.7
2	C	368	THR	2.7
2	M	211	LEU	2.7
3	N	153	LEU	2.7
4	O	73	LEU	2.7
5	P	349	LEU	2.7
2	M	1069	ALA	2.7
3	N	757	ALA	2.7
4	E	64	ALA	2.7
1	K	107	LYS	2.7
5	F	302	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
1	K	219	ARG	2.7
3	D	1297	GLU	2.7
5	F	101	GLU	2.7
2	C	83	CYS	2.7
3	D	1399	ASP	2.7
2	M	519	GLY	2.7
2	M	561	GLY	2.7
2	C	603	VAL	2.7
2	C	629	TYR	2.7
3	D	392	SER	2.7
3	D	517	VAL	2.7
1	K	28	LEU	2.7
2	C	348	LEU	2.7
2	C	666	LEU	2.7
2	M	668	LEU	2.7
3	N	1435	LEU	2.7
3	D	1443	THR	2.7
3	N	416	ALA	2.7
3	N	458	ALA	2.7
3	N	573	MET	2.7
1	B	154	GLU	2.7
3	N	925	GLU	2.7
2	C	462	ASP	2.7
3	N	430	ASP	2.7
1	K	122	ILE	2.7
2	C	13	ILE	2.7
3	N	956	ILE	2.7
2	M	444	PRO	2.7
3	D	71	LYS	2.7
3	D	1119	SER	2.7
5	F	262	VAL	2.7
2	C	100	LEU	2.7
3	N	1403	LEU	2.7
4	E	30	LEU	2.7
5	F	210	LEU	2.7
2	C	581	THR	2.7
2	M	604	ALA	2.7
3	N	568	ARG	2.7
5	F	250	ALA	2.7
5	P	214	GLN	2.7
3	N	709	HIS	2.7
2	C	76	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
2	C	877	PRO	2.7
2	M	777	ILE	2.7
5	F	333	ILE	2.7
2	M	651	LYS	2.7
1	A	175	ARG	2.7
2	C	339	LEU	2.7
2	C	776	SER	2.7
3	N	95	LEU	2.7
2	M	596	TYR	2.7
2	C	469	THR	2.7
2	C	667	ALA	2.7
3	N	467	GLU	2.7
3	N	707	THR	2.7
2	C	1106	ASP	2.6
1	K	37	GLY	2.6
1	K	217	ILE	2.6
2	C	311	PHE	2.6
2	M	86	LYS	2.6
2	M	786	LYS	2.6
3	D	1061	PHE	2.6
3	N	226	PRO	2.6
3	N	843	PHE	2.6
1	A	123	MET	2.6
3	D	980	MET	2.6
2	M	445	GLU	2.6
2	M	895	TYR	2.6
3	D	169	TYR	2.6
4	E	60	ALA	2.6
5	F	84	TYR	2.6
5	F	366	ALA	2.6
1	A	33	GLY	2.6
3	N	24	GLY	2.6
5	F	188	ILE	2.6
5	F	110	MET	2.6
2	M	952	LEU	2.6
1	A	87	VAL	2.6
1	A	215	VAL	2.6
3	D	213	VAL	2.6
2	C	25	SER	2.6
2	M	776	SER	2.6
1	B	153	ALA	2.6
2	C	604	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
2	M	1046	ALA	2.6
3	D	1227	GLN	2.6
5	P	190	ALA	2.6
2	C	158	TYR	2.6
3	D	709	HIS	2.6
3	N	1172	HIS	2.6
2	C	716	LYS	2.6
3	N	1339	LYS	2.6
2	M	1059	ASP	2.6
3	N	1477	GLY	2.6
5	F	332	PHE	2.6
1	B	64	GLU	2.6
2	M	100	LEU	2.6
2	C	336	VAL	2.6
2	C	461	VAL	2.6
3	N	377	VAL	2.6
3	N	955	VAL	2.6
3	D	596	SER	2.6
4	O	38	THR	2.6
1	A	3	ASP	2.6
2	C	237	ARG	2.6
3	D	15	PRO	2.6
3	D	390	PRO	2.6
2	M	3	ILE	2.6
3	N	982	PHE	2.6
1	B	218	LEU	2.6
2	M	313	LEU	2.6
2	M	546	LEU	2.6
3	N	1127	GLU	2.6
4	O	30	LEU	2.6
2	C	34	VAL	2.6
2	C	632	ASN	2.6
5	F	196	VAL	2.6
5	F	315	VAL	2.6
1	K	178	ALA	2.6
3	D	1333	HIS	2.6
5	P	250	ALA	2.6
3	D	698	LYS	2.6
3	N	163	TYR	2.6
2	C	300	ASP	2.5
2	M	440	PRO	2.5
3	N	1040	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
4	O	4	PRO	2.5
3	D	18	ILE	2.5
5	P	119	ILE	2.5
5	F	313	GLU	2.5
1	K	85	LEU	2.5
2	C	107	LEU	2.5
3	D	639	LEU	2.5
1	L	151	VAL	2.5
2	M	461	VAL	2.5
2	M	579	VAL	2.5
2	C	1047	HIS	2.5
1	K	153	ALA	2.5
2	C	656	ALA	2.5
5	P	356	LYS	2.5
2	C	768	THR	2.5
2	M	368	THR	2.5
2	M	214	TYR	2.5
3	N	169	TYR	2.5
1	A	125	PRO	2.5
2	C	669	GLY	2.5
2	M	111	ASP	2.5
2	M	1003	ASP	2.5
3	D	1076	GLY	2.5
3	N	739	ASP	2.5
5	P	204	GLY	2.5
2	C	304	LEU	2.5
2	M	281	LEU	2.5
3	N	421	LEU	2.5
5	F	192	LEU	2.5
1	B	56	VAL	2.5
1	B	76	VAL	2.5
2	C	59	LYS	2.5
3	N	571	LYS	2.5
3	N	824	ASN	2.5
2	C	712	ALA	2.5
3	N	97	THR	2.5
5	F	284	ARG	2.5
1	B	123	MET	2.5
2	C	444	PRO	2.5
2	C	646	GLY	2.5
1	K	129	ILE	2.5
3	N	378	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
3	N	857	ILE	2.5
5	P	99	GLU	2.5
5	P	135	ILE	2.5
3	N	1017	PHE	2.5
5	P	210	LEU	2.5
3	N	1456	LYS	2.5
1	K	142	VAL	2.5
2	M	322	VAL	2.5
3	N	126	VAL	2.5
3	D	568	ARG	2.5
5	P	236	SER	2.5
3	N	170	PRO	2.5
2	C	212	GLY	2.5
2	C	329	GLY	2.5
2	C	505	GLY	2.5
2	M	436	GLY	2.5
2	C	202	TYR	2.5
2	M	599	GLU	2.5
2	M	1044	GLY	2.5
5	F	118	GLU	2.5
2	C	101	ILE	2.5
3	N	741	ASP	2.5
2	C	281	LEU	2.5
5	F	114	LYS	2.5
3	D	1184	GLN	2.5
2	M	603	VAL	2.5
2	M	941	VAL	2.5
5	F	406	ARG	2.5
2	C	1046	ALA	2.5
3	N	422	ALA	2.5
3	N	773	ALA	2.5
1	K	190	THR	2.5
3	N	1237	THR	2.5
3	N	1204	CYS	2.4
2	C	458	TYR	2.4
2	M	816	LYS	2.4
2	M	1106	ASP	2.4
3	D	606	ILE	2.4
3	N	1139	ASP	2.4
3	D	227	LEU	2.4
3	N	839	LEU	2.4
3	D	575	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	181	VAL	2.4
1	L	86	VAL	2.4
2	M	588	VAL	2.4
2	C	677	MET	2.4
2	M	457	ALA	2.4
2	M	660	ALA	2.4
3	N	391	ALA	2.4
3	N	580	ALA	2.4
5	P	366	ALA	2.4
1	K	4	SER	2.4
3	D	1228	SER	2.4
2	M	131	GLY	2.4
2	C	159	ILE	2.4
2	M	698	ASP	2.4
3	N	880	ILE	2.4
3	N	1217	ILE	2.4
2	C	372	LEU	2.4
3	D	557	LEU	2.4
3	N	547	LEU	2.4
5	F	194	LEU	2.4
5	F	214	GLN	2.4
5	P	192	LEU	2.4
1	L	112	ARG	2.4
2	C	993	PHE	2.4
3	D	251	PHE	2.4
3	N	550	ARG	2.4
1	B	86	VAL	2.4
1	B	163	ASN	2.4
1	L	167	VAL	2.4
5	P	217	ASN	2.4
1	K	214	ALA	2.4
2	M	312	ALA	2.4
3	N	1272	ALA	2.4
1	B	166	PRO	2.4
2	C	903	SER	2.4
3	D	170	PRO	2.4
3	D	1049	SER	2.4
4	O	42	PRO	2.4
3	D	1269	LYS	2.4
5	F	384	GLU	2.4
5	P	409	LYS	2.4
3	N	383	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
2	C	128	ILE	2.4
2	M	101	ILE	2.4
5	F	123	ASP	2.4
5	F	310	ILE	2.4
2	M	168	ARG	2.4
3	D	19	ARG	2.4
3	N	572	ARG	2.4
5	F	416	ARG	2.4
5	P	337	HIS	2.4
1	L	53	VAL	2.4
3	N	1273	VAL	2.4
2	C	574	ALA	2.4
1	L	98	THR	2.4
1	B	116	PRO	2.4
1	L	154	GLU	2.4
2	C	123	GLU	2.4
3	D	798	GLU	2.4
3	N	25	GLU	2.4
3	N	1196	THR	2.4
2	C	722	ILE	2.4
3	D	1229	ILE	2.4
5	F	376	ILE	2.4
2	C	1006	HIS	2.4
2	M	331	ARG	2.4
2	M	1019	GLN	2.4
5	P	249	ARG	2.4
2	M	540	PHE	2.4
2	M	373	VAL	2.4
2	C	374	ASN	2.4
2	C	312	ALA	2.4
3	N	840	LYS	2.4
4	E	47	LYS	2.4
5	P	311	ALA	2.4
2	M	149	THR	2.3
2	M	489	THR	2.3
1	K	66	SER	2.3
2	C	760	SER	2.3
3	D	449	SER	2.3
3	N	876	SER	2.3
2	C	94	LEU	2.3
2	C	236	ILE	2.3
3	D	95	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
3	D	574	LEU	2.3
3	D	695	ILE	2.3
2	C	787	ASP	2.3
2	C	471	TYR	2.3
1	L	76	VAL	2.3
2	C	579	VAL	2.3
2	C	813	VAL	2.3
2	M	65	VAL	2.3
3	N	858	VAL	2.3
1	L	124	ASN	2.3
5	F	217	ASN	2.3
2	C	593	ALA	2.3
5	P	255	ALA	2.3
1	A	131	THR	2.3
3	D	97	THR	2.3
3	N	1326	THR	2.3
1	A	31	GLY	2.3
1	B	135	GLY	2.3
2	M	237	ARG	2.3
2	M	969	GLN	2.3
2	C	625	LEU	2.3
2	M	367	LEU	2.3
4	E	92	ILE	2.3
5	P	96	LEU	2.3
5	P	220	LEU	2.3
2	C	298	PHE	2.3
2	C	936	VAL	2.3
3	D	409	VAL	2.3
3	D	435	VAL	2.3
3	N	435	VAL	2.3
3	D	467	GLU	2.3
1	A	124	ASN	2.3
2	C	330	ASN	2.3
2	C	32	ALA	2.3
2	C	132	ALA	2.3
2	M	132	ALA	2.3
3	D	755	ALA	2.3
3	N	718	PRO	2.3
2	M	581	THR	2.3
2	M	308	ARG	2.3
1	K	63	HIS	2.3
2	M	325	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
3	D	972	LEU	2.3
2	C	268	ASP	2.3
2	M	880	MET	2.3
3	D	806	PHE	2.3
3	N	376	GLU	2.3
3	D	1318	TYR	2.3
3	N	863	VAL	2.3
2	C	904	PRO	2.3
2	M	160	ALA	2.3
3	N	1324	PRO	2.3
2	M	619	ARG	2.3
3	D	613	ARG	2.3
2	M	314	THR	2.3
3	N	1476	THR	2.3
2	C	7	GLY	2.3
2	M	669	GLY	2.3
3	N	1235	GLN	2.3
3	N	1328	GLY	2.3
3	N	1433	SER	2.3
5	F	165	SER	2.3
2	C	1038	TRP	2.3
3	N	574	LEU	2.3
5	P	354	LEU	2.3
2	C	185	LYS	2.3
2	M	533	ASP	2.3
5	P	300	ASP	2.3
2	M	1027	PHE	2.3
3	D	535	PHE	2.3
3	D	1345	GLU	2.3
1	K	106	PRO	2.3
2	M	697	ARG	2.3
3	N	877	PRO	2.3
5	F	314	PRO	2.3
1	B	214	ALA	2.2
3	D	472	ALA	2.2
3	N	228	ALA	2.2
3	N	1303	TYR	2.3
3	N	1309	ALA	2.2
3	D	878	GLY	2.2
3	N	1043	GLY	2.2
4	O	76	GLY	2.2
1	K	110	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
2	C	66	LEU	2.2
2	C	789	SER	2.2
2	M	339	LEU	2.2
2	M	722	ILE	2.2
4	E	73	LEU	2.2
5	P	408	LEU	2.2
2	C	527	GLU	2.2
3	N	244	GLU	2.2
2	C	778	PHE	2.2
2	M	659	PRO	2.2
2	M	1031	ARG	2.2
2	C	399	ASN	2.2
2	M	459	ALA	2.2
2	M	1116	ALA	2.2
3	N	954	ALA	2.2
2	C	95	TYR	2.2
3	N	1015	TYR	2.2
2	C	314	THR	2.2
2	C	723	THR	2.2
2	C	788	THR	2.2
4	E	62	THR	2.2
3	D	394	LEU	2.2
3	D	573	MET	2.2
3	N	28	LYS	2.2
3	N	187	LYS	2.2
2	M	1040	LEU	2.2
3	D	582	LEU	2.2
3	D	1044	LEU	2.2
2	C	9	ILE	2.2
3	N	93	ILE	2.2
1	K	193	ASP	2.2
2	M	133	ASP	2.2
3	N	372	ASP	2.2
3	D	1013	GLU	2.2
2	C	945	ARG	2.2
5	P	178	ARG	2.2
1	L	117	VAL	2.2
3	N	1224	VAL	2.2
5	P	404	ALA	2.2
2	C	596	TYR	2.2
1	B	82	LEU	2.2
2	C	797	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
2	M	486	MET	2.2
2	M	566	THR	2.2
3	D	1000	THR	2.2
3	N	1000	THR	2.2
3	N	1205	TYR	2.2
5	F	202	TYR	2.2
2	M	66	LEU	2.2
2	M	125	GLY	2.2
2	M	372	LEU	2.2
3	D	1421	LEU	2.2
3	N	433	GLY	2.2
3	N	1132	LEU	2.2
1	B	93	SER	2.2
1	K	46	SER	2.2
2	C	75	GLU	2.2
3	D	776	GLU	2.2
5	F	412	GLU	2.2
1	A	116	PRO	2.2
2	M	859	PRO	2.2
3	D	373	PRO	2.2
3	D	754	PHE	2.2
1	K	177	VAL	2.2
3	D	437	VAL	2.2
3	N	431	VAL	2.2
5	P	195	VAL	2.2
2	M	399	ASN	2.2
2	M	872	ASN	2.2
3	N	456	MET	2.2
1	B	51	THR	2.2
2	M	122	THR	2.2
3	D	940	THR	2.2
1	L	100	LEU	2.2
2	C	757	GLY	2.2
2	M	717	LEU	2.2
2	M	741	GLY	2.2
2	M	1115	LEU	2.2
3	N	1039	CYS	2.2
4	O	40	LEU	2.2
5	F	174	LEU	2.2
2	M	128	ILE	2.2
3	N	1105	ILE	2.2
5	F	213	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
3	D	1478	SER	2.2
3	N	14	SER	2.2
2	M	323	ASP	2.2
2	M	326	ASP	2.2
3	D	453	ASP	2.2
3	N	1287	GLU	2.2
3	N	39	PRO	2.2
1	L	155	LYS	2.2
2	C	293	PHE	2.2
2	M	531	PHE	2.2
2	C	65	VAL	2.1
2	C	643	VAL	2.1
2	C	823	VAL	2.1
3	N	446	VAL	2.1
3	N	519	VAL	2.1
4	E	13	VAL	2.1
1	L	153	ALA	2.1
2	C	160	ALA	2.1
2	M	456	ALA	2.1
2	C	106	GLY	2.1
2	M	60	GLY	2.1
2	M	107	LEU	2.1
3	N	619	LEU	2.1
3	N	1041	LEU	2.1
3	N	1052	THR	2.1
3	N	1312	LEU	2.1
5	P	346	THR	2.1
2	C	258	TYR	2.1
3	D	1105	ILE	2.1
4	E	93	TYR	2.1
3	D	1439	SER	2.1
3	N	441	ARG	2.1
2	C	133	ASP	2.1
2	C	323	ASP	2.1
2	C	736	ASP	2.1
1	L	152	PRO	2.1
2	M	877	PRO	2.1
3	N	1455	LYS	2.1
5	P	297	PRO	2.1
1	A	142	VAL	2.1
2	C	113	VAL	2.1
2	C	1037	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
2	M	427	VAL	2.1
3	D	1224	VAL	2.1
3	N	836	VAL	2.1
3	N	1200	VAL	2.1
2	M	255	ALA	2.1
3	D	580	ALA	2.1
2	M	646	GLY	2.1
3	D	411	THR	2.1
3	D	865	THR	2.1
5	P	187	LEU	2.1
1	B	48	ILE	2.1
3	D	761	ILE	2.1
2	C	758	ARG	2.1
3	D	212	ARG	2.1
4	E	82	GLU	2.1
2	M	342	ASP	2.1
3	D	372	ASP	2.1
5	P	165	SER	2.1
3	D	92	HIS	2.1
3	D	1440	PHE	2.1
1	L	144	VAL	2.1
2	C	674	VAL	2.1
2	M	565	GLN	2.1
2	M	943	VAL	2.1
3	D	1273	VAL	2.1
3	D	21	TRP	2.1
2	M	130	ASN	2.1
1	A	149	GLY	2.1
1	K	99	LEU	2.1
2	C	367	LEU	2.1
2	C	737	LEU	2.1
3	D	503	LEU	2.1
5	P	174	LEU	2.1
2	C	28	ARG	2.1
2	M	8	ARG	2.1
3	N	622	ARG	2.1
2	M	438	ILE	2.1
3	D	374	GLU	2.1
3	D	448	GLU	2.1
3	N	367	ILE	2.1
3	D	23	TYR	2.1
5	F	173	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
2	C	638	ASP	2.1
5	F	138	SER	2.1
5	P	167	PRO	2.1
1	B	128	HIS	2.1
2	C	322	VAL	2.1
2	C	478	VAL	2.1
4	E	39	VAL	2.1
2	M	352	ALA	2.1
2	M	667	ALA	2.1
3	N	21	TRP	2.1
3	N	171	LEU	2.1
3	N	613	ARG	2.1
3	N	1325	LEU	2.1
5	P	93	LEU	2.1
5	P	163	LEU	2.1
2	C	741	GLY	2.1
2	M	809	GLY	2.1
3	N	564	GLU	2.1
3	N	570	GLU	2.1
2	C	987	ILE	2.1
2	M	108	ILE	2.1
3	D	949	ILE	2.1
3	N	606	ILE	2.1
3	N	1274	ILE	2.1
5	F	373	LYS	2.1
1	A	183	ASP	2.1
3	D	791	TYR	2.1
5	F	211	ASP	2.1
5	F	331	ASP	2.1
5	P	323	ASP	2.1
2	C	247	PRO	2.1
1	A	114	PHE	2.0
2	M	534	VAL	2.0
2	C	418	LEU	2.0
2	M	737	LEU	2.0
3	D	161	LEU	2.0
3	D	909	ASN	2.0
3	N	1044	LEU	2.0
3	N	1305	LEU	2.0
4	O	68	LEU	2.0
5	P	194	LEU	2.0
5	P	418	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
3	D	1454	GLY	2.0
3	N	222	GLY	2.0
5	F	378	GLY	2.0
2	C	467	ILE	2.0
2	M	129	ILE	2.0
3	N	797	LYS	2.0
4	O	62	THR	2.0
1	L	150	TYR	2.0
2	C	58	ASP	2.0
2	M	736	ASP	2.0
3	N	1208	ASP	2.0
2	C	548	PRO	2.0
2	M	369	PRO	2.0
5	P	78	SER	2.0
2	C	6	PHE	2.0
2	C	420	ARG	2.0
2	M	612	VAL	2.0
2	M	783	ARG	2.0
3	D	1292	VAL	2.0
3	N	795	VAL	2.0
3	N	1055	VAL	2.0
1	L	85	LEU	2.0
2	M	593	ALA	2.0
3	D	570	GLU	2.0
3	D	839	LEU	2.0
3	N	17	LYS	2.0
3	N	576	GLU	2.0
3	N	1311	LEU	2.0
4	E	68	LEU	2.0
5	P	417	LYS	2.0
1	L	122	ILE	2.0
3	N	940	THR	2.0
4	E	38	THR	2.0
5	F	237	THR	2.0
5	P	310	ILE	2.0
2	C	624	PRO	2.0
1	B	55	SER	2.0
3	N	602	SER	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

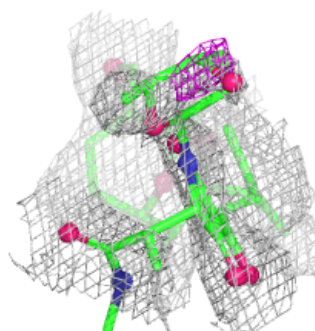
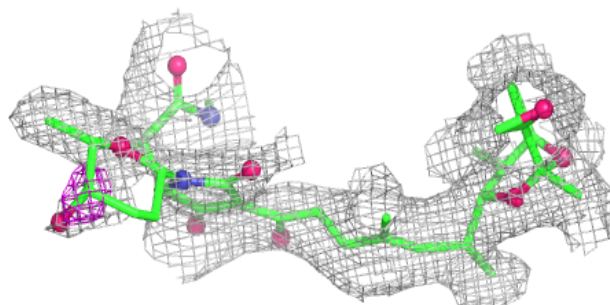
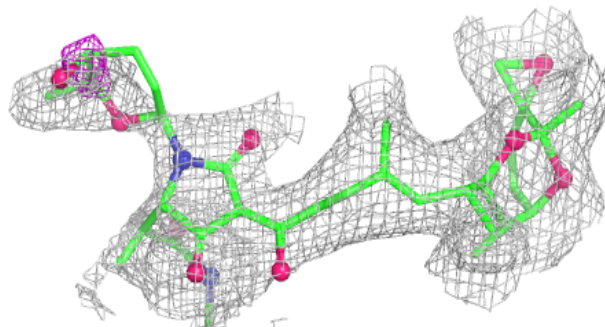
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	STD	N	8002	43/43	0.94	0.08	27,35,41,48	0
6	STD	D	8001	43/43	0.95	0.07	25,35,40,43	0
8	MG	N	9002	1/1	0.95	0.50	53,53,53,53	0
8	MG	D	9001	1/1	0.98	0.16	29,29,29,29	0
7	ZN	N	7459	1/1	0.99	0.04	64,64,64,64	0
7	ZN	N	7413	1/1	1.00	0.02	65,65,65,65	0
7	ZN	D	7412	1/1	1.00	0.03	58,58,58,58	0
7	ZN	D	7458	1/1	1.00	0.07	64,64,64,64	0

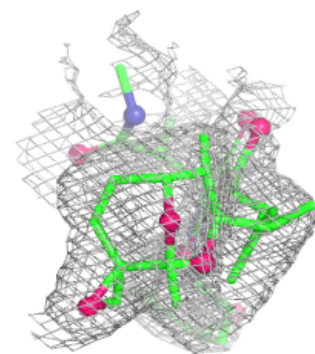
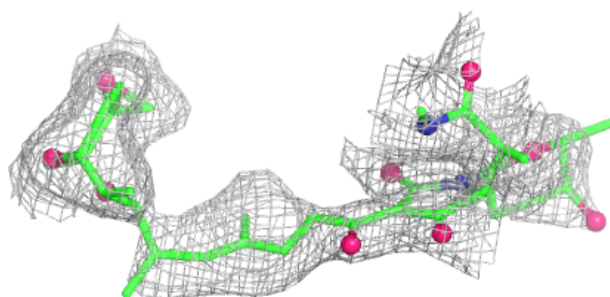
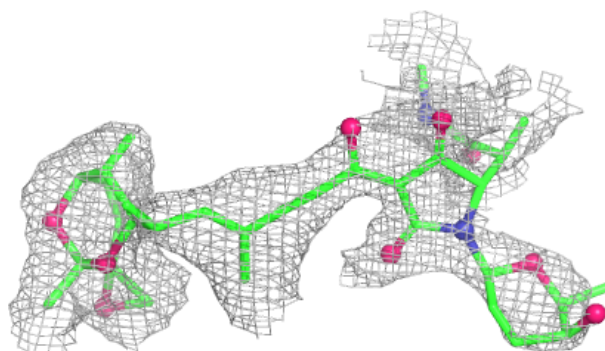
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around STD N 8002:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around STD D 8001:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.