Full wwPDB X-ray Structure Validation Report (i)

Feb 1, 2016 – 08:30 AM GMT

PDB ID	:	3EQL
Title	:	Crystal structure of the T. Thermophilus RNA polymerase holoenzyme in complex with antibiotic myxopyronin
Authors	:	Vassylyev, D.G.; Vassylyeva, M.N.; Artsimovitch, I.
Deposited on	:	2008-09-30
Resolution	:	2.70 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
http://wwpdb.org/validation/2016/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

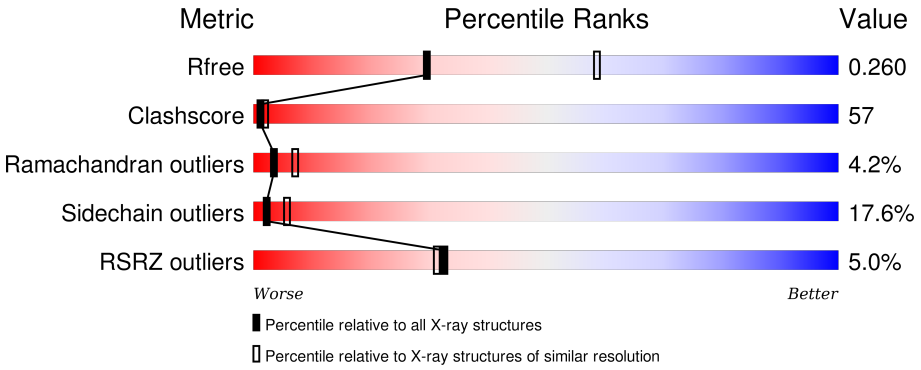
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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}	91344	2103 (2.70-2.70)
Clashscore	102246	2422 (2.70-2.70)
Ramachandran outliers	100387	2382 (2.70-2.70)
Sidechain outliers	100360	2382 (2.70-2.70)
RSRZ outliers	91569	2107 (2.70-2.70)

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 on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	315	2% 18% 44% 10% 27%
1	B	315	6% 19% 44% 9% 27%
1	K	315	2% 20% 42% 10% 27%
1	L	315	5% 17% 46% 9% 27%
2	C	1119	5% 25% 58% 16%

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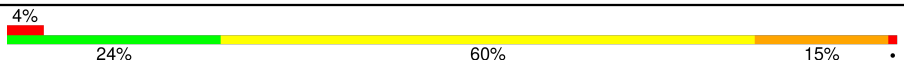
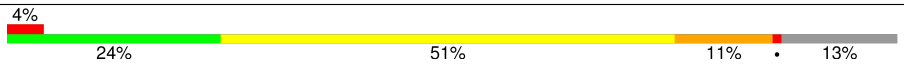
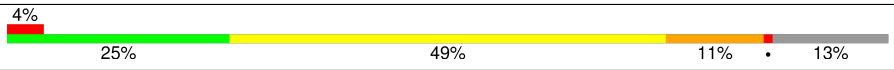
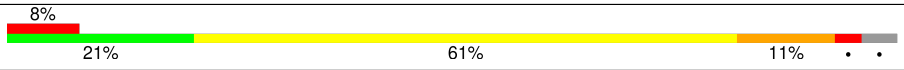
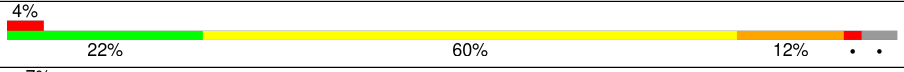
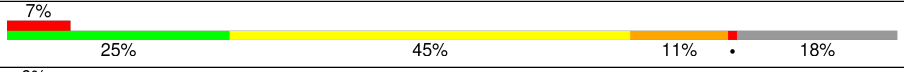
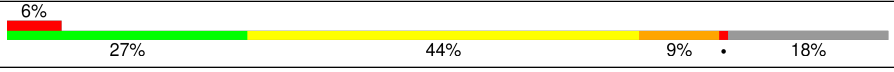
Mol	Chain	Length	Quality of chain
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 57340 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 subunit alpha.

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 subunit beta.

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 subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1321	Total	C	N	O	S	0	0	0
			10407	6585	1845	1944	33			
3	N	1321	Total	C	N	O	S	0	0	0
			10407	6585	1845	1944	33			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			770	491	133	142	4			
4	O	95	Total	C	N	O	S	0	0	0
			770	491	133	142	4			

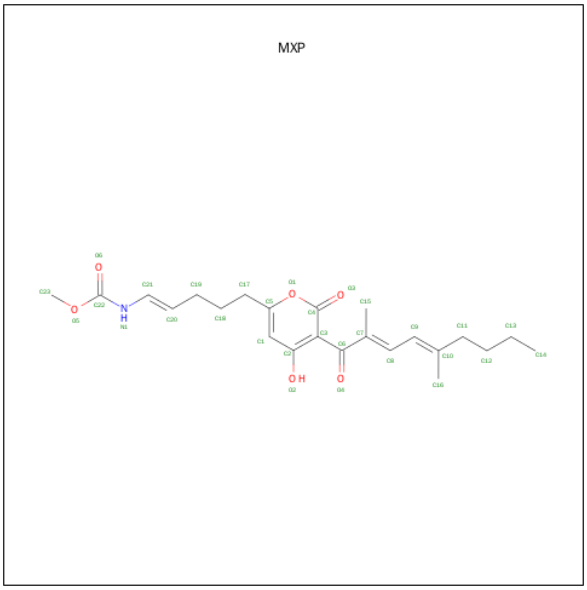
- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

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 ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 7 is MYXOPYRONIN B (three-letter code: MXP) (formula: $C_{23}H_{31}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	D	1	Total	C	N	O	0	0
			30	23	1	6		
7	N	1	Total	C	N	O	0	0
			30	23	1	6		

- Molecule 8 is MAGNESIUM ION (three-letter code: 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.

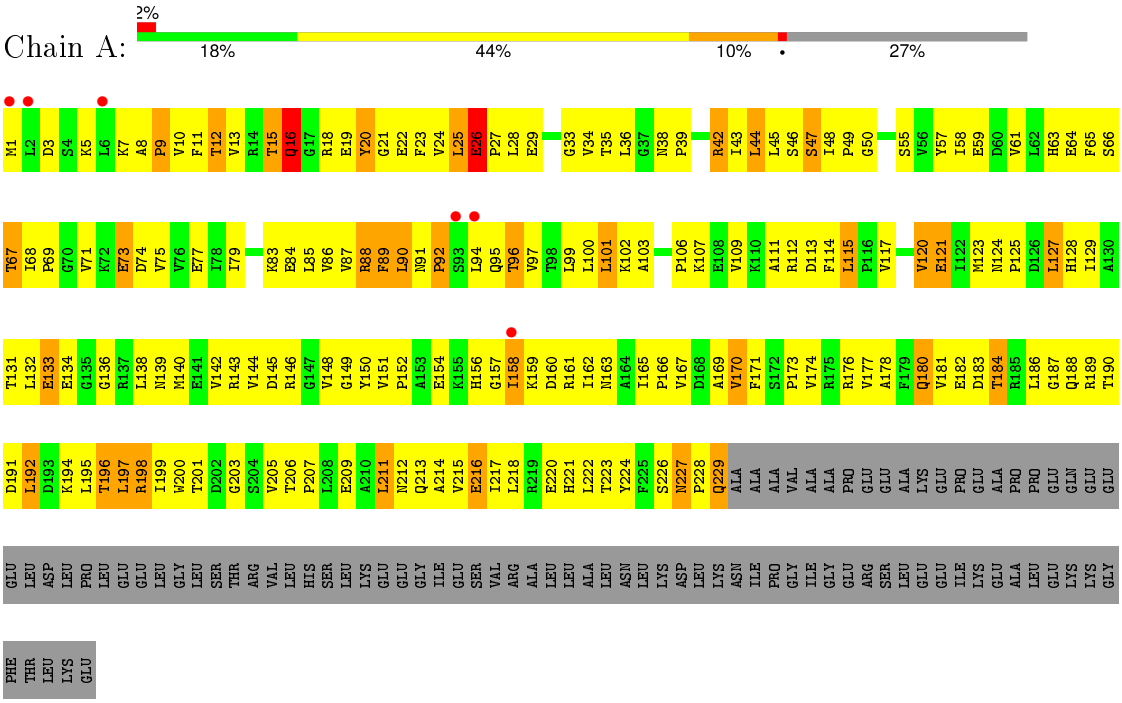
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	141	Total O 141 141	0	0
9	B	149	Total O 149 149	0	0
9	C	704	Total O 704 704	0	0
9	D	927	Total O 927 927	0	0
9	E	82	Total O 82 82	0	0
9	F	305	Total O 305 305	0	0
9	K	152	Total O 152 152	0	0
9	L	148	Total O 148 148	0	0
9	M	680	Total O 680 680	0	0
9	N	864	Total O 864 864	0	0
9	O	84	Total O 84 84	0	0
9	P	260	Total O 260 260	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

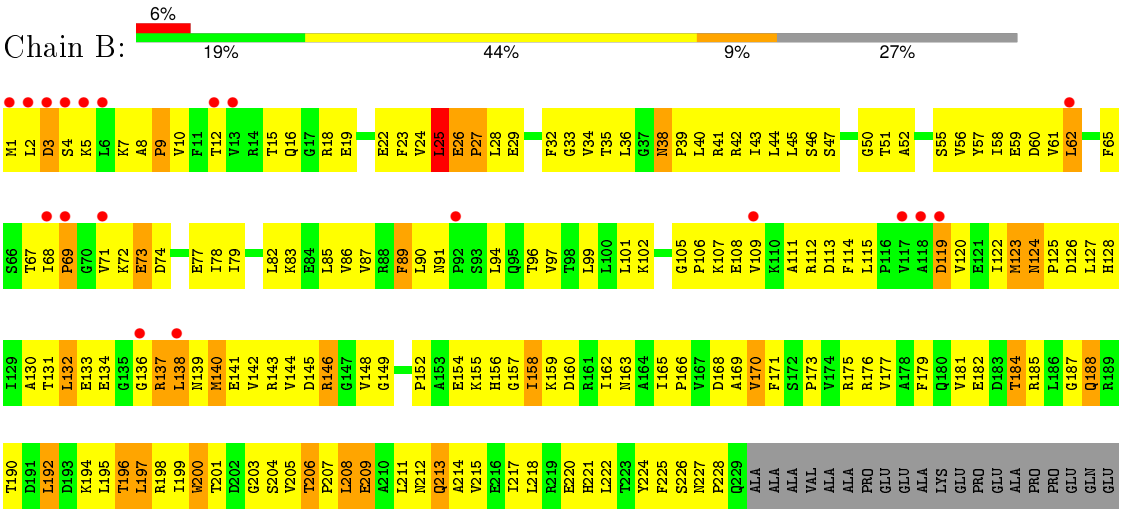
- Molecule 1: DNA-directed RNA polymerase subunit alpha

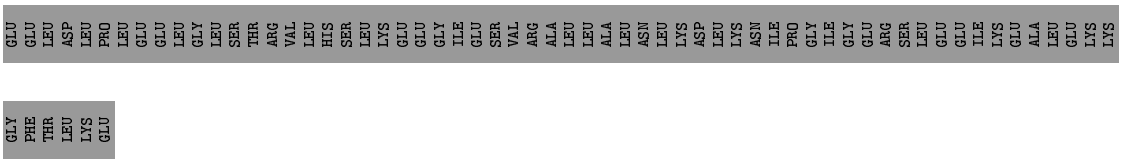
Chain A:



- Molecule 1: DNA-directed RNA polymerase subunit alpha

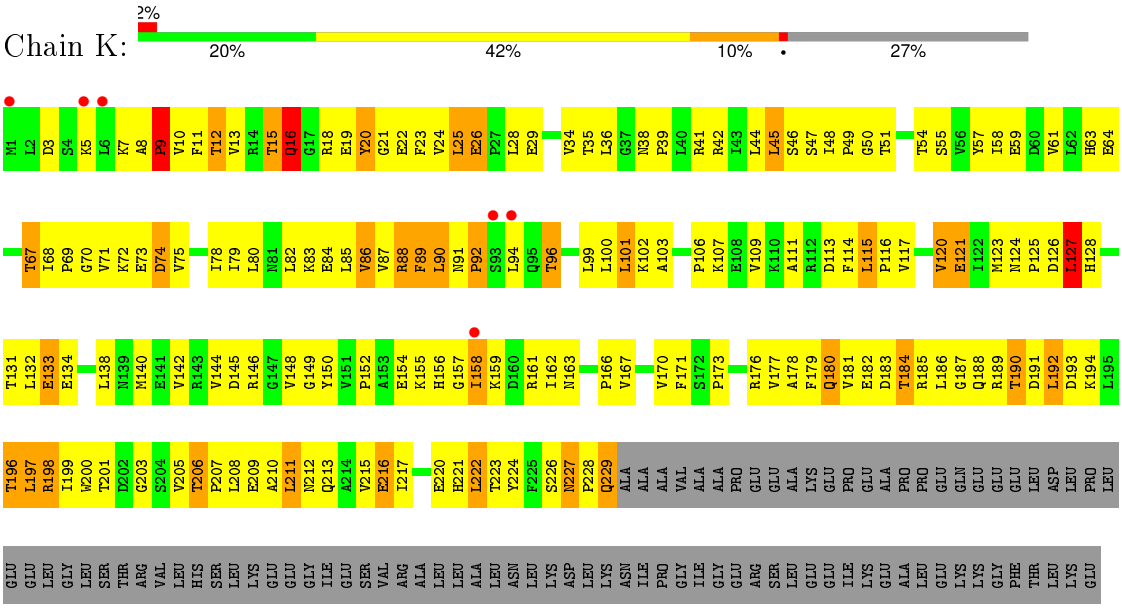
Chain B:





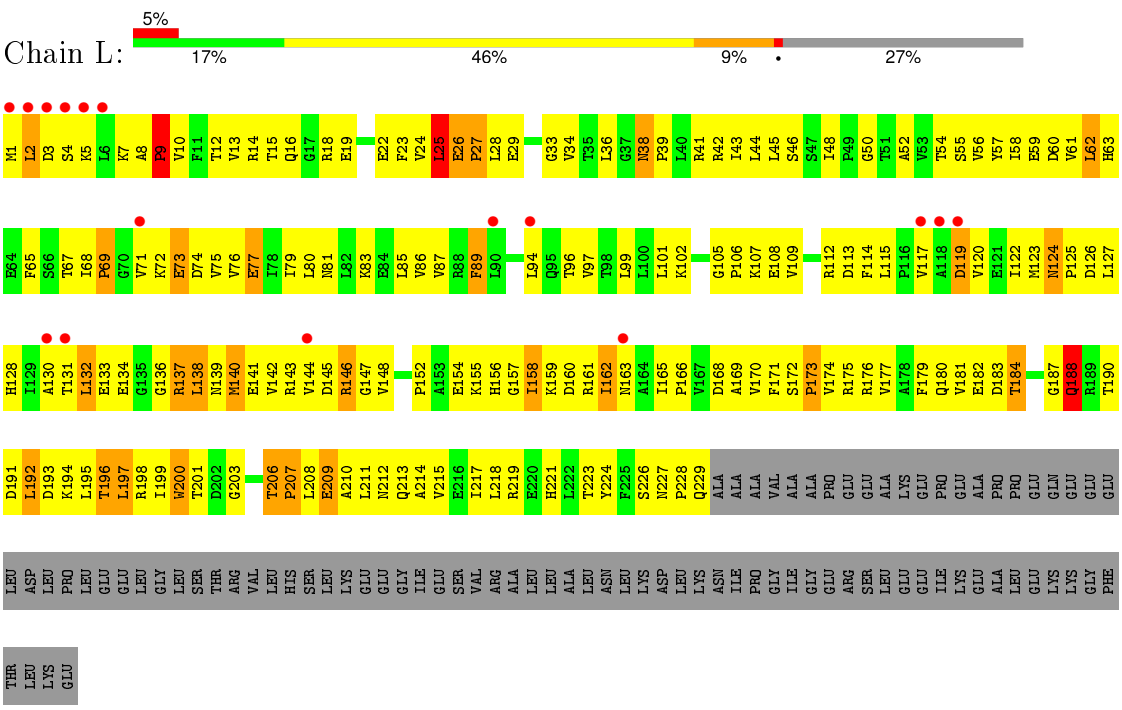
• Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain K:



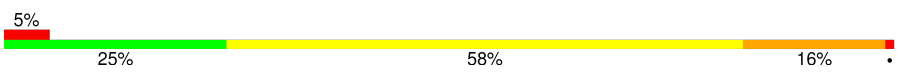
• Molecule 1: DNA-directed RNA polymerase subunit alpha

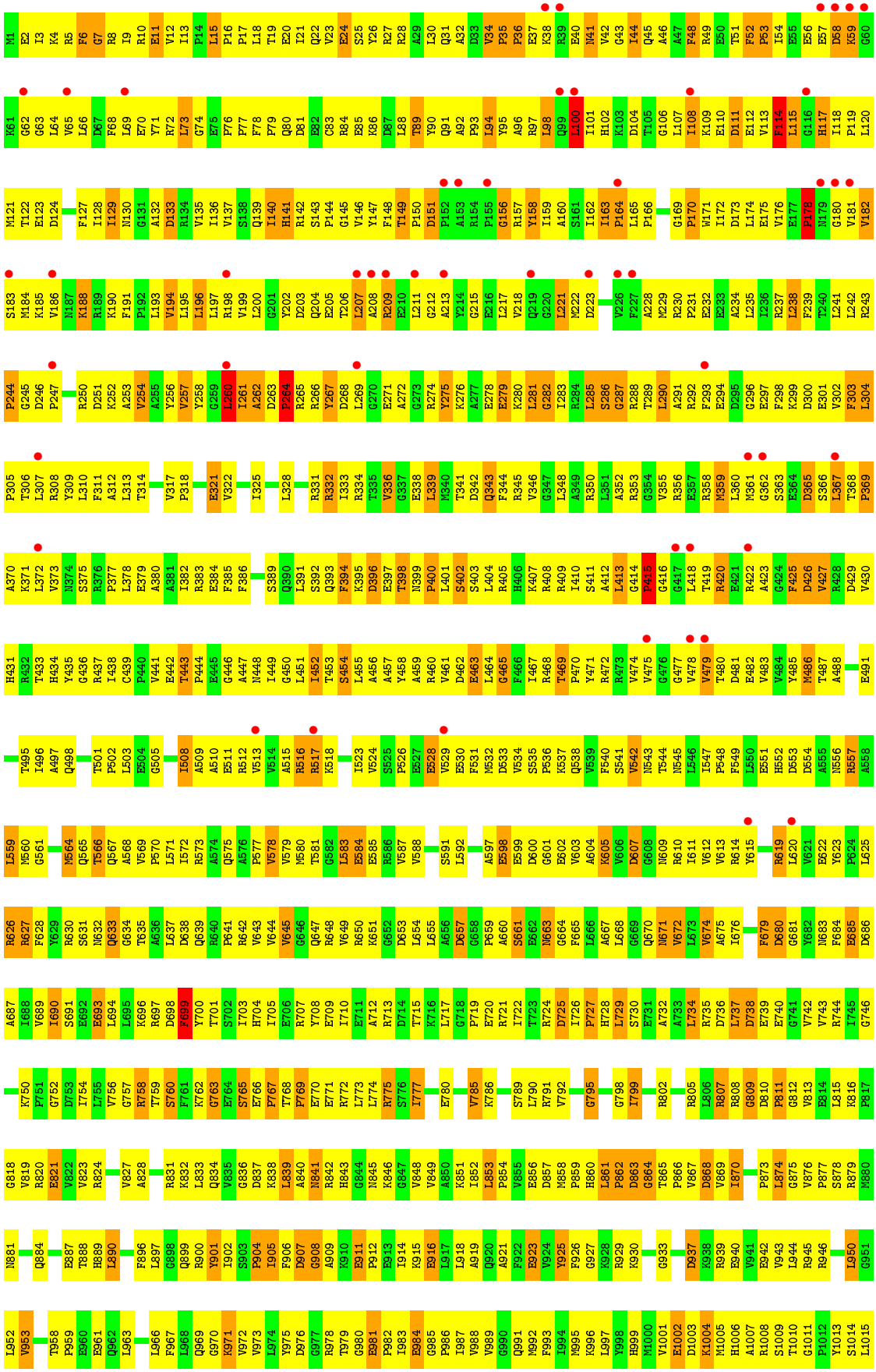
Chain L:

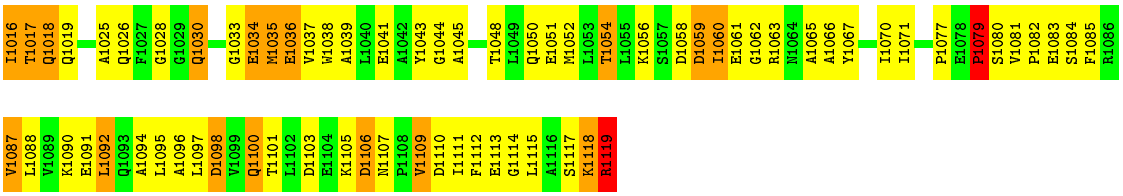


• Molecule 2: DNA-directed RNA polymerase subunit beta

Chain C:

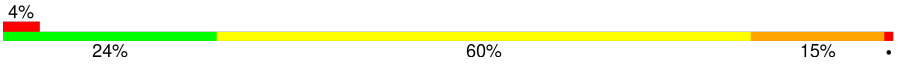


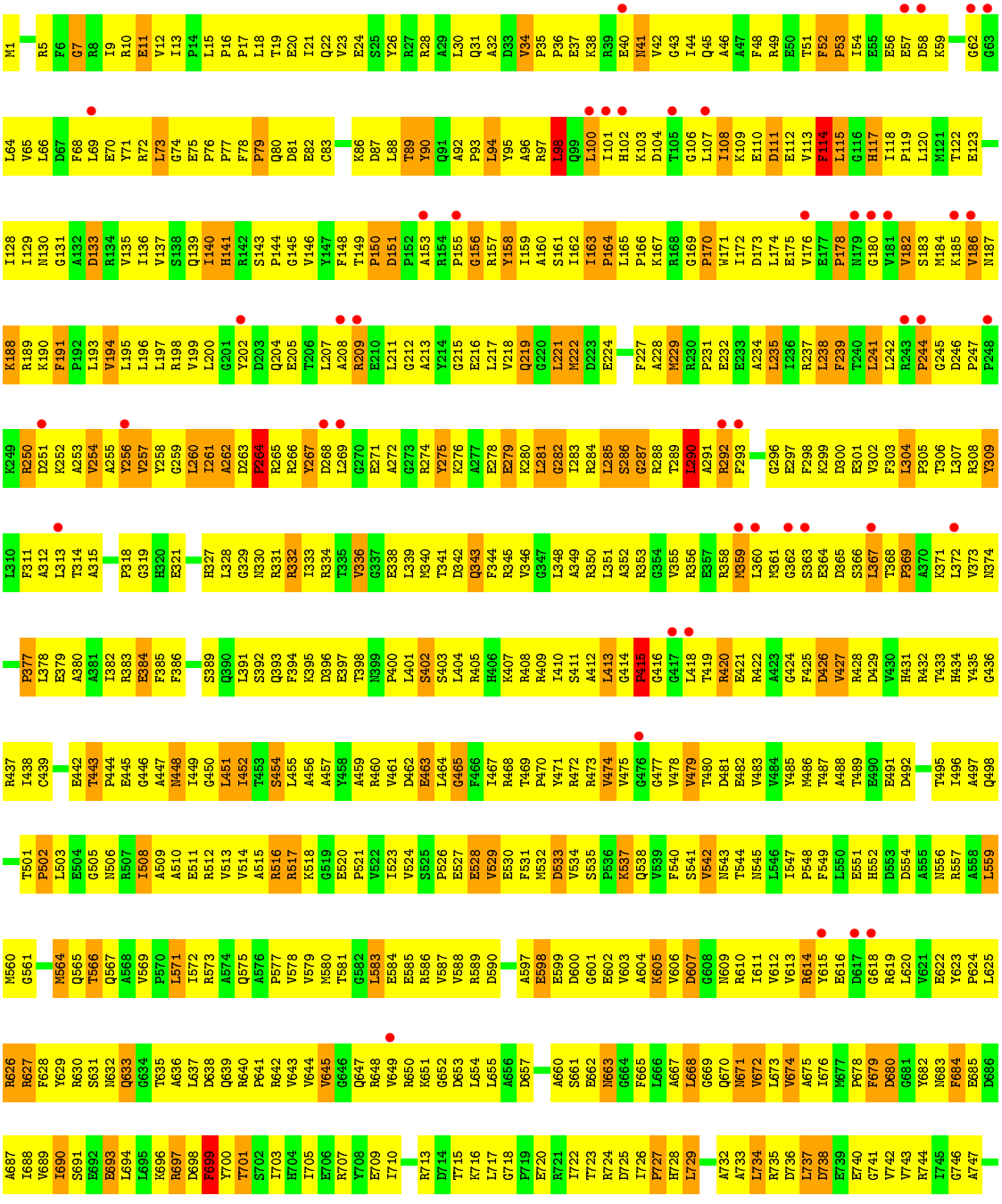


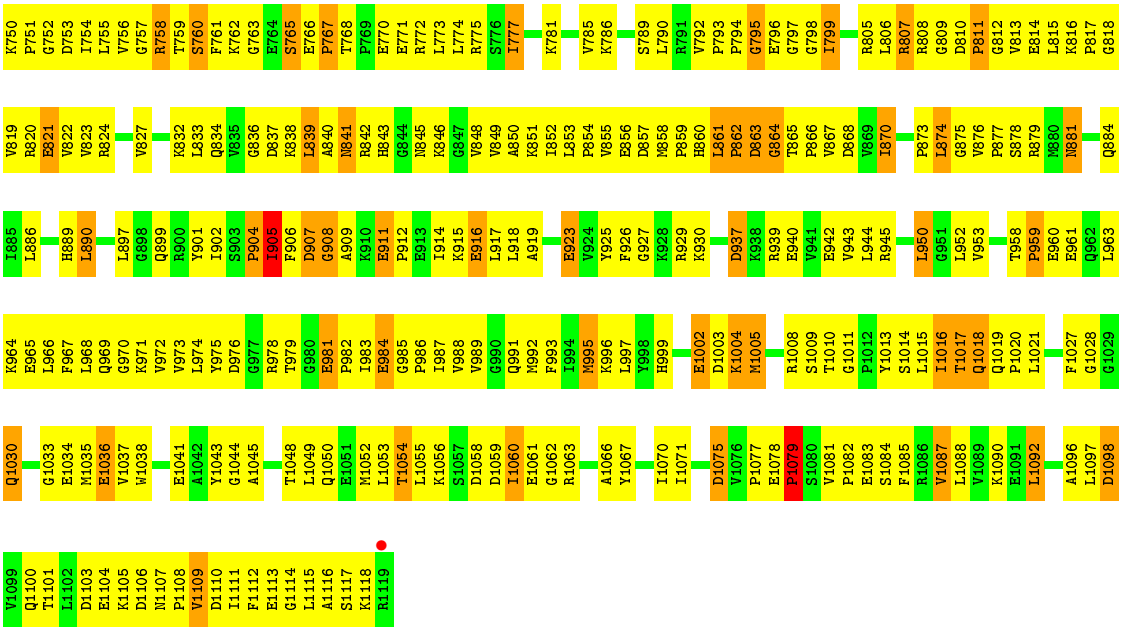


• Molecule 2: DNA-directed RNA polymerase subunit beta

Chain M:

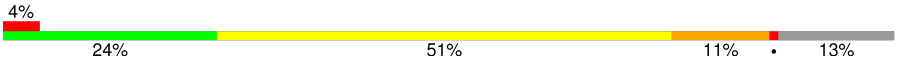


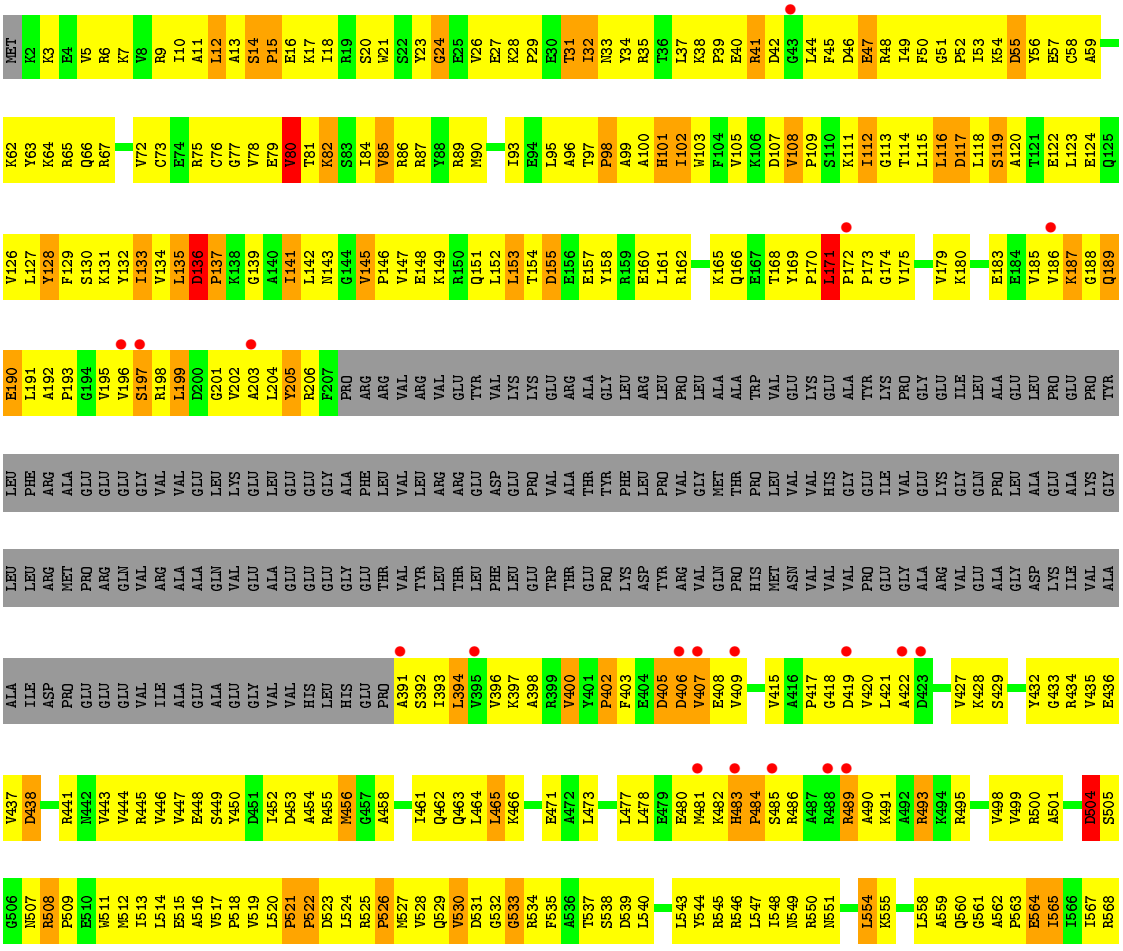


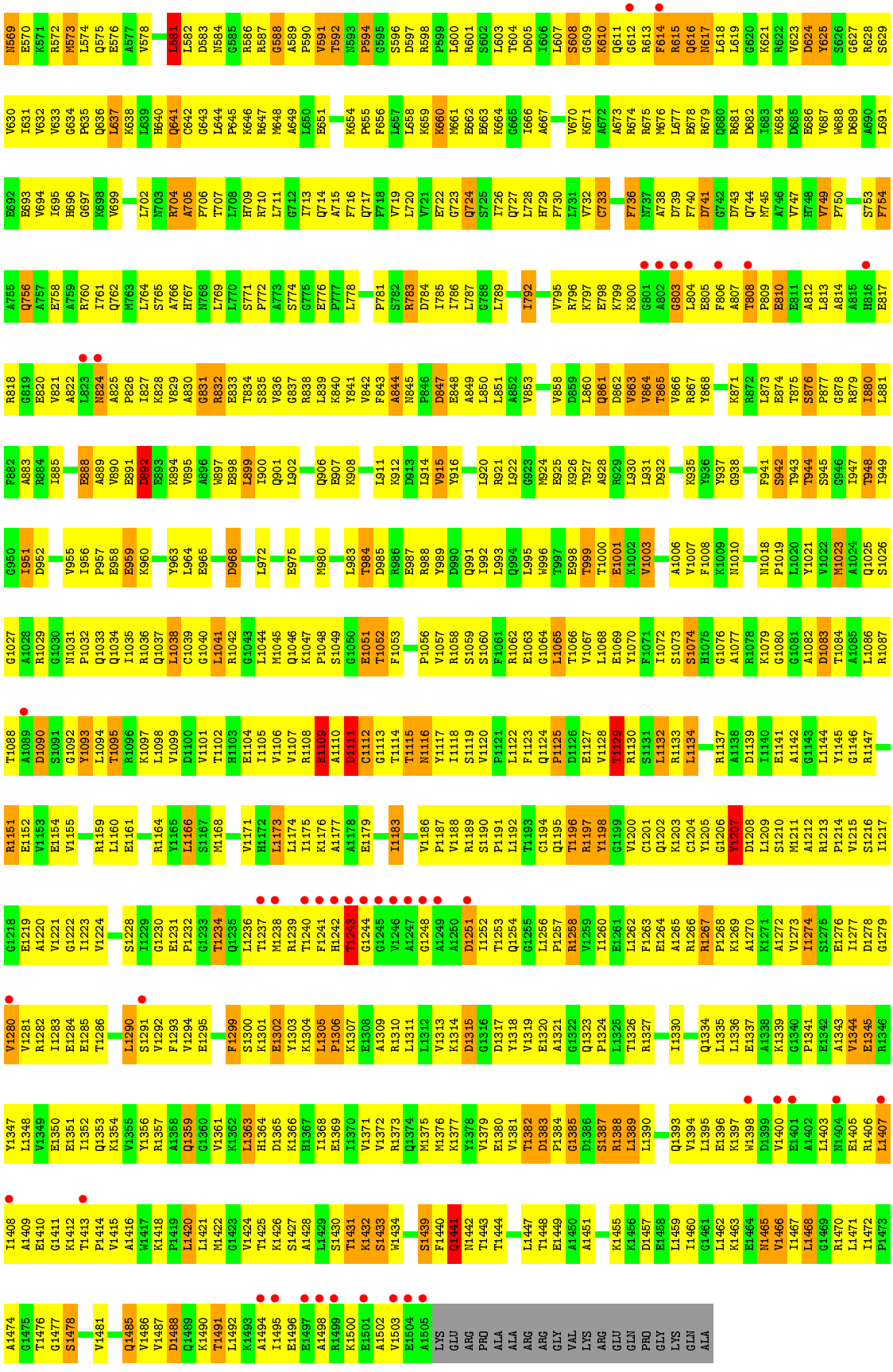


- Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain D:

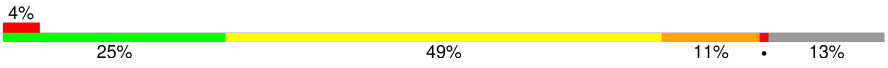


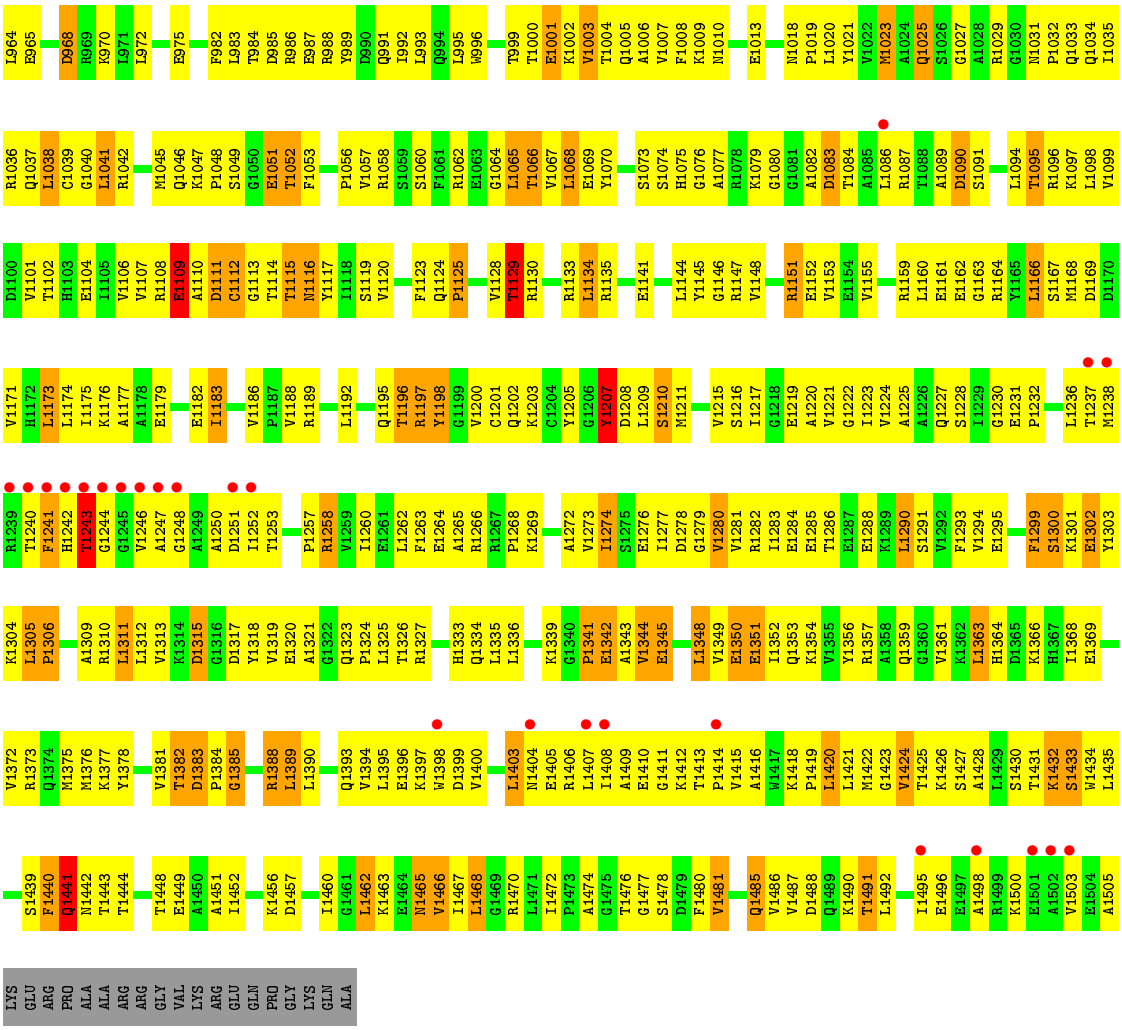




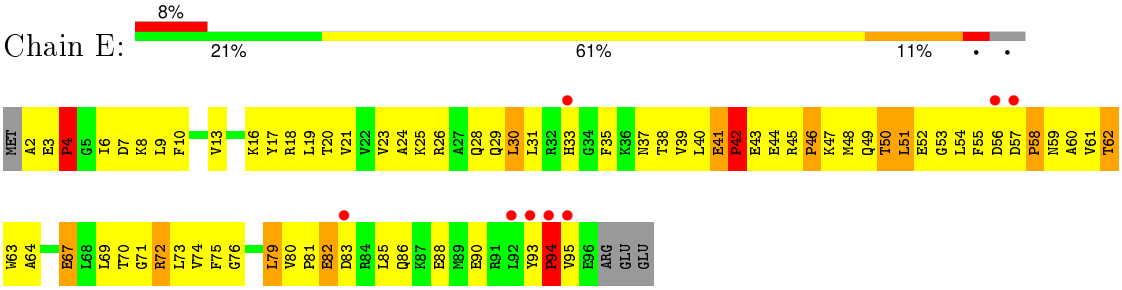
- Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain N:

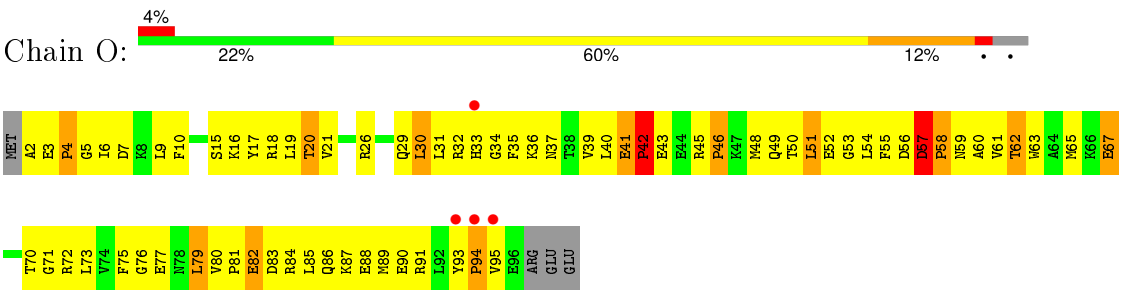




• Molecule 4: DNA-directed RNA polymerase subunit omega

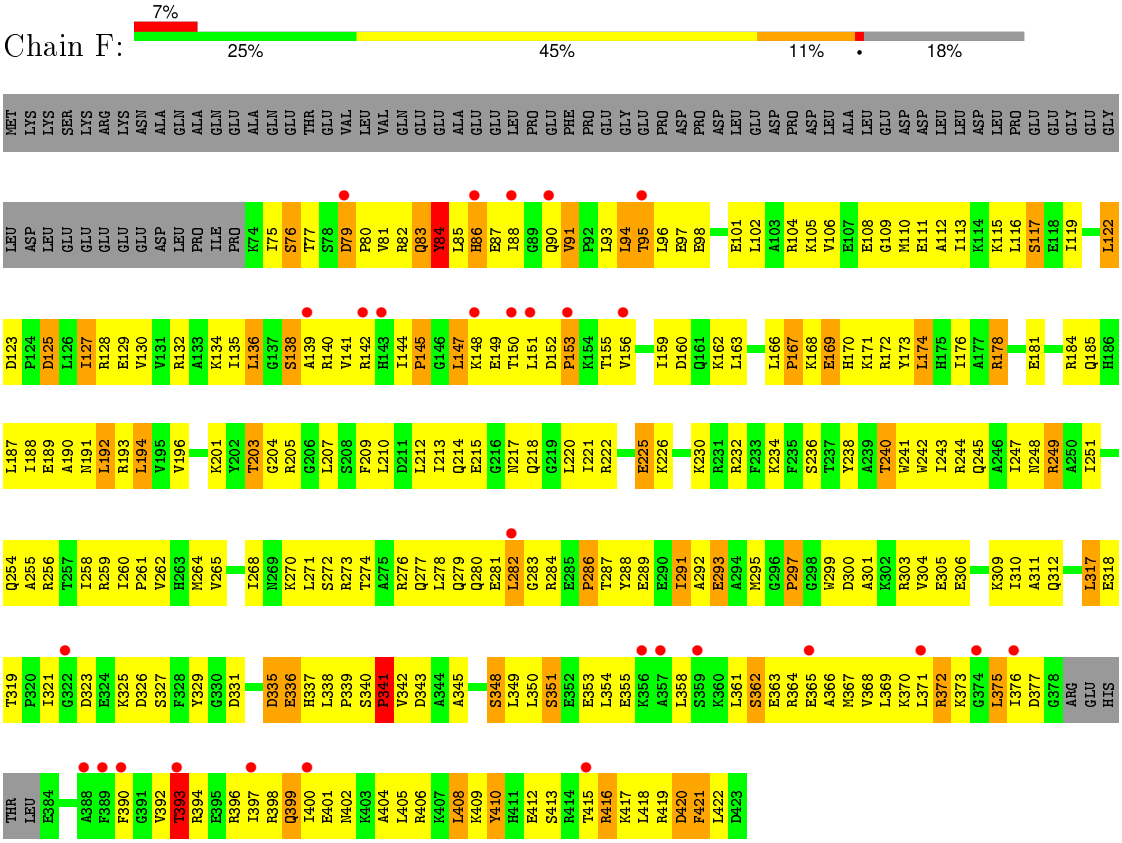


• Molecule 4: DNA-directed RNA polymerase subunit omega



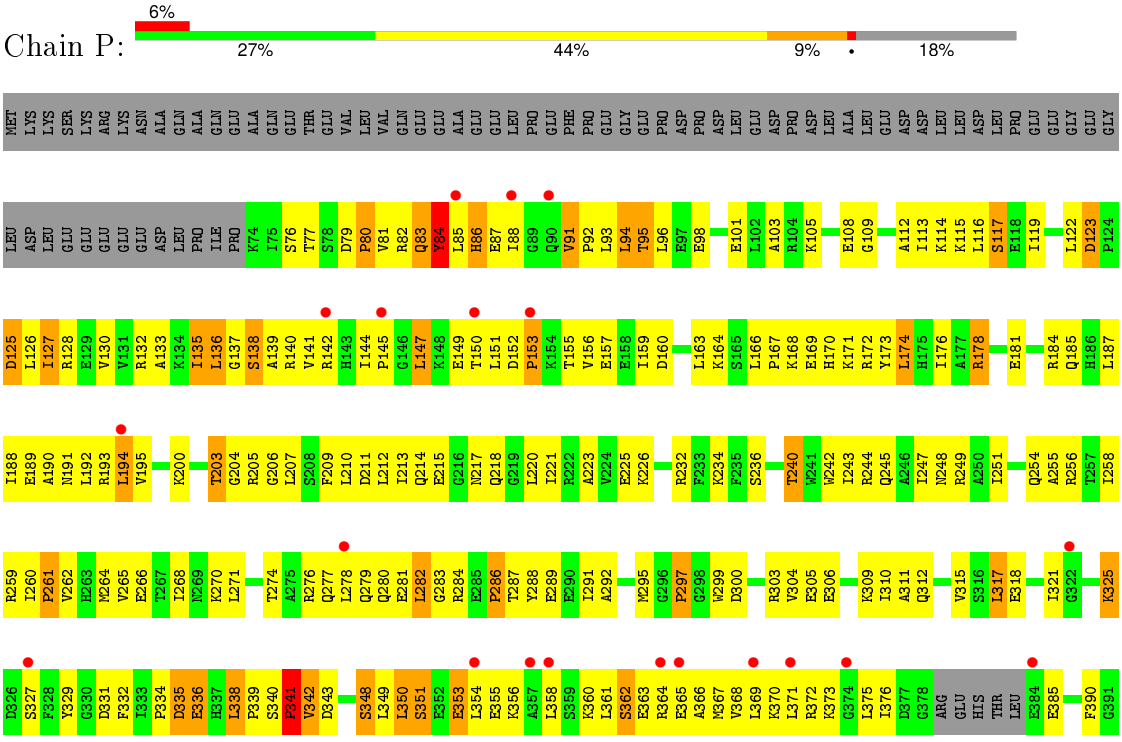
• Molecule 5: RNA polymerase sigma factor rpoD

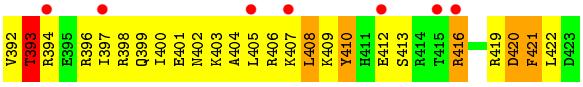
Chain F:



• Molecule 5: RNA polymerase sigma factor rpoD

Chain P:




V392
T393
R394
E395
R396
T397
R398
Q399
I400
E401
N402
K403
A404
L405
R406
K407
L408
K409
Y410
H411
E412
S413
R414
T415
R416
R419
D420
F421
L422
D423

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α, β, γ	235.00Å 235.00Å 254.95Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.00 – 2.70 39.96 – 2.70	Depositor EDS
% Data completeness (in resolution range)	97.7 (40.00-2.70) 90.5 (39.96-2.70)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.70 (at 2.69Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.240 , 0.270 0.237 , 0.260	Depositor DCC
R_{free} test set	18510 reflections (4.74%)	DCC
Wilson B-factor (Å^2)	47.8	Xtriage
Anisotropy	0.097	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 104.4	EDS
Estimated twinning fraction	0.166 for -h,-k,l 0.048 for h,-h-k,-l 0.047 for -k,-h,-l	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.45$, $< L^2 > = 0.28$	Xtriage
Outliers	0 of 390896 reflections	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	57340	wwPDB-VP
Average B, all atoms (Å^2)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.86% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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, MG, MXP

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	0.84	2/1838 (0.1%)	1.04	9/2498 (0.4%)
1	B	0.74	1/1838 (0.1%)	0.95	9/2498 (0.4%)
1	K	0.81	2/1838 (0.1%)	1.00	8/2498 (0.3%)
1	L	0.75	1/1838 (0.1%)	0.96	10/2498 (0.4%)
2	C	0.73	0/8997	0.94	14/12164 (0.1%)
2	M	0.73	0/8997	0.94	14/12164 (0.1%)
3	D	0.75	2/10582 (0.0%)	0.97	15/14294 (0.1%)
3	N	0.75	1/10582 (0.0%)	0.97	18/14294 (0.1%)
4	E	0.73	0/784	1.23	5/1057 (0.5%)
4	O	0.71	0/784	1.08	3/1057 (0.3%)
5	F	0.65	0/2812	0.85	3/3781 (0.1%)
5	P	0.65	0/2812	0.86	2/3781 (0.1%)
All	All	0.74	9/53702 (0.0%)	0.96	110/72584 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	N	0	1

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	26	GLU	C-O	-11.04	1.02	1.23
1	K	26	GLU	C-O	-10.57	1.03	1.23
1	B	26	GLU	C-O	-10.23	1.03	1.23
1	L	26	GLU	C-O	-9.82	1.04	1.23
1	A	16	GLN	CB-CG	5.82	1.68	1.52
1	K	16	GLN	CB-CG	5.80	1.68	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	407	VAL	CB-CG2	-5.45	1.41	1.52
3	D	733	CYS	CB-SG	-5.41	1.73	1.81
3	D	407	VAL	CB-CG2	-5.33	1.41	1.52

All (110) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	94	PRO	CA-N-CD	-18.30	85.89	111.50
1	B	138	LEU	CA-CB-CG	12.41	143.84	115.30
1	L	138	LEU	CA-CB-CG	12.19	143.33	115.30
4	O	94	PRO	CA-N-CD	-9.89	97.65	111.50
1	K	26	GLU	CA-C-N	9.51	143.72	117.10
1	A	26	GLU	CA-C-N	9.00	142.30	117.10
3	N	1411	GLY	N-CA-C	-8.94	90.74	113.10
4	E	94	PRO	N-CA-C	8.91	135.26	112.10
3	D	1411	GLY	N-CA-C	-8.89	90.88	113.10
1	K	26	GLU	CA-C-O	-8.69	101.84	120.10
1	A	26	GLU	CA-C-O	-8.19	102.90	120.10
1	A	158	ILE	CG1-CB-CG2	-8.17	93.42	111.40
1	K	158	ILE	CG1-CB-CG2	-8.08	93.63	111.40
1	K	192	LEU	CA-CB-CG	7.83	133.31	115.30
1	A	42	ARG	NE-CZ-NH1	-7.74	116.43	120.30
3	D	614	PHE	CA-CB-CG	7.52	131.96	113.90
1	B	25	LEU	CA-CB-CG	7.34	132.17	115.30
3	N	581	LEU	CA-CB-CG	7.24	131.94	115.30
4	O	94	PRO	N-CA-C	7.03	130.37	112.10
1	L	26	GLU	CA-C-N	6.96	136.58	117.10
1	A	192	LEU	CA-CB-CG	6.92	131.22	115.30
5	F	136	LEU	CA-CB-CG	6.77	130.88	115.30
1	L	138	LEU	CB-CG-CD1	-6.65	99.70	111.00
3	D	637	LEU	CA-CB-CG	6.64	130.57	115.30
1	B	158	ILE	CB-CA-C	-6.64	98.33	111.60
1	L	25	LEU	CA-CB-CG	6.62	130.53	115.30
1	L	158	ILE	CB-CA-C	-6.57	98.47	111.60
1	A	197	LEU	CA-CB-CG	6.46	130.16	115.30
4	E	94	PRO	CA-CB-CG	-6.45	91.75	104.00
3	D	1207	TYR	CA-CB-CG	6.38	125.53	113.40
3	D	581	LEU	CA-CB-CG	6.38	129.98	115.30
5	P	84	TYR	CA-CB-CG	6.32	125.41	113.40
3	D	1109	GLU	CA-C-N	-6.30	103.34	117.20
3	N	813	LEU	CA-CB-CG	6.28	129.74	115.30
1	L	26	GLU	CA-C-O	-6.26	106.95	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	N	1109	GLU	C-N-CA	6.26	137.34	121.70
3	N	1389	LEU	CA-CB-CG	6.24	129.65	115.30
1	B	26	GLU	CA-C-N	6.23	134.55	117.10
3	D	171	LEU	CA-CB-CG	6.19	129.53	115.30
3	N	1207	TYR	CA-CB-CG	6.18	125.14	113.40
2	C	1119	ARG	CB-CA-C	6.17	122.75	110.40
3	N	80	VAL	CA-C-N	-6.13	103.70	117.20
2	C	114	PHE	CB-CG-CD1	6.13	125.09	120.80
3	N	1109	GLU	CA-C-N	-6.12	103.73	117.20
3	N	80	VAL	C-N-CA	6.05	136.82	121.70
3	D	1109	GLU	C-N-CA	6.04	136.79	121.70
1	B	138	LEU	CB-CG-CD1	-6.01	100.78	111.00
1	K	188	GLN	CA-CB-CG	-6.01	100.19	113.40
2	M	114	PHE	CB-CG-CD1	5.93	124.95	120.80
2	C	58	ASP	C-N-CA	5.91	136.48	121.70
2	C	100	LEU	CA-CB-CG	5.87	128.79	115.30
2	M	114	PHE	CB-CG-CD2	-5.83	116.72	120.80
2	M	503	LEU	CA-CB-CG	5.82	128.69	115.30
3	N	637	LEU	CA-CB-CG	5.82	128.68	115.30
3	N	572	ARG	NE-CZ-NH1	-5.81	117.40	120.30
4	E	94	PRO	N-CD-CG	5.78	111.87	103.20
3	D	80	VAL	CA-C-N	-5.77	104.50	117.20
2	M	58	ASP	C-N-CA	5.77	136.12	121.70
1	A	90	LEU	CA-CB-CG	-5.71	102.18	115.30
3	D	1389	LEU	CA-CB-CG	5.70	128.42	115.30
3	N	58	CYS	CA-CB-SG	5.69	124.25	114.00
2	C	728	HIS	CA-C-N	5.69	129.72	117.20
2	M	287	GLY	N-CA-C	-5.68	98.89	113.10
2	C	114	PHE	CB-CG-CD2	-5.68	116.83	120.80
2	M	571	LEU	CB-CG-CD2	-5.66	101.39	111.00
3	D	831	GLY	N-CA-C	-5.65	98.97	113.10
3	N	831	GLY	N-CA-C	-5.65	98.98	113.10
3	N	171	LEU	CA-CB-CG	5.63	128.25	115.30
1	L	188	GLN	CA-CB-CG	5.62	125.78	113.40
1	B	26	GLU	CA-C-O	-5.60	108.33	120.10
2	C	287	GLY	N-CA-C	-5.60	99.10	113.10
4	E	50	THR	C-N-CA	5.59	135.68	121.70
1	L	146	ARG	CA-CB-CG	5.58	125.69	113.40
5	P	136	LEU	CA-CB-CG	5.58	128.14	115.30
2	M	728	HIS	CA-C-N	5.58	129.48	117.20
4	O	50	THR	C-N-CA	5.53	135.51	121.70
1	K	90	LEU	CA-CB-CG	-5.50	102.66	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	198	ARG	C-N-CA	5.48	135.40	121.70
2	C	98	LEU	CA-CB-CG	5.48	127.90	115.30
3	N	198	ARG	C-N-CA	5.47	135.39	121.70
1	K	25	LEU	C-N-CA	-5.46	108.06	121.70
3	D	564	GLU	CA-CB-CG	-5.43	101.45	113.40
2	C	264	PRO	C-N-CA	-5.43	108.13	121.70
1	B	188	GLN	CA-CB-CG	5.41	125.31	113.40
5	F	84	TYR	CA-CB-CG	5.41	123.68	113.40
2	C	795	GLY	N-CA-C	-5.41	99.58	113.10
2	M	264	PRO	C-N-CA	-5.40	108.20	121.70
2	M	795	GLY	N-CA-C	-5.37	99.67	113.10
2	M	98	LEU	CA-CB-CG	5.37	127.64	115.30
1	A	188	GLN	CA-CB-CG	-5.35	101.63	113.40
3	N	21	TRP	CA-CB-CG	5.29	123.76	113.70
2	M	974	LEU	CA-CB-CG	5.26	127.39	115.30
1	B	146	ARG	CA-CB-CG	5.26	124.97	113.40
2	C	58	ASP	CA-C-N	-5.22	105.72	117.20
1	L	132	LEU	CA-CB-CG	5.21	127.29	115.30
2	M	58	ASP	CA-C-N	-5.20	105.77	117.20
1	L	2	LEU	CA-CB-CG	5.20	127.25	115.30
1	K	127	LEU	CA-CB-CG	5.17	127.20	115.30
5	F	377	ASP	CB-CG-OD2	5.17	122.96	118.30
3	D	41	ARG	NE-CZ-NH2	-5.17	117.72	120.30
3	D	80	VAL	C-N-CA	5.16	134.60	121.70
3	N	1351	GLU	CA-CB-CG	-5.16	102.05	113.40
2	C	260	LEU	CA-CB-CG	5.10	127.03	115.30
3	N	614	PHE	CB-CG-CD1	5.09	124.37	120.80
2	C	207	LEU	CA-CB-CG	5.09	127.01	115.30
1	A	25	LEU	C-N-CA	-5.07	109.03	121.70
2	M	728	HIS	C-N-CA	-5.05	109.07	121.70
1	B	132	LEU	CA-CB-CG	5.02	126.85	115.30
2	M	1027	PHE	CA-C-N	5.02	126.25	116.20
2	C	763	GLY	C-N-CA	-5.02	109.16	121.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	N	132	TYR	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	184	0
1	B	1806	0	1861	197	0
1	K	1806	0	1861	212	0
1	L	1806	0	1861	198	0
2	C	8829	0	8933	1145	0
2	M	8829	0	8933	1073	0
3	D	10407	0	10633	1296	0
3	N	10407	0	10633	1283	0
4	E	770	0	784	121	0
4	O	770	0	784	113	0
5	F	2771	0	2844	316	0
5	P	2771	0	2844	312	0
6	D	2	0	0	0	0
6	N	2	0	0	0	0
7	D	30	0	31	18	0
7	N	30	0	31	18	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
9	A	141	0	0	28	0
9	B	149	0	0	30	0
9	C	704	0	0	215	0
9	D	927	0	0	239	0
9	E	82	0	0	29	0
9	F	305	0	0	77	0
9	K	152	0	0	41	0
9	L	148	0	0	34	0
9	M	680	0	0	180	0
9	N	864	0	0	235	0
9	O	84	0	0	26	0
9	P	260	0	0	71	0
All	All	57340	0	53894	6054	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 57.

All (6054) 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:D:610:LYS:HD3	7:D:1527:MXP:C15	1.49	1.41
3:N:610:LYS:HD3	7:N:1527:MXP:C15	1.55	1.37
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.27	1.15
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.27	1.13
3:D:610:LYS:HD3	7:D:1527:MXP:H15B	1.19	1.10
1:L:109:VAL:HG21	1:L:138:LEU:HD11	1.33	1.08
3:N:610:LYS:HD3	7:N:1527:MXP:H15	1.08	1.06
1:B:109:VAL:HG21	1:B:138:LEU:HD11	1.35	1.06
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.00	1.06
2:M:877:PRO:HG2	3:N:1023:MET:HE2	1.27	1.06
3:D:611:GLN:HE22	3:D:1463:LYS:HE2	1.20	1.05
3:N:613:ARG:HG3	3:N:1441:GLN:HB2	1.39	1.04
3:N:101:HIS:HD1	3:N:103:TRP:HB2	1.21	1.04
3:N:180:LYS:HG2	3:N:183:GLU:HB2	1.35	1.04
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.34	1.04
3:D:180:LYS:HG2	3:D:183:GLU:HB2	1.37	1.03
2:C:795:GLY:HA3	2:C:1004:LYS:HE2	1.41	1.02
3:N:610:LYS:CD	7:N:1527:MXP:C15	2.37	1.02
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.41	1.02
3:D:187:LYS:HE2	3:D:199:LEU:HB3	1.42	1.02
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.24	1.02
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.40	1.01
3:N:100:ALA:HB2	3:N:513:ILE:HD13	1.41	1.01
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.42	1.01
3:D:610:LYS:CD	7:D:1527:MXP:C15	2.38	1.01
1:A:7:LYS:HE2	1:A:186:LEU:HD11	1.42	1.01
4:E:94:PRO:HD3	9:E:180:HOH:O	1.60	1.00
1:K:7:LYS:HE2	1:K:186:LEU:HD11	1.40	1.00
3:N:1209:LEU:HD21	4:O:16:LYS:HD2	1.38	1.00
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.45	0.98
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.42	0.98
3:D:907:GLU:HA	9:D:2416:HOH:O	1.65	0.97
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.43	0.97
2:C:2:GLU:HG3	2:C:899:GLN:HB3	1.46	0.97
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.44	0.96
1:A:152:PRO:HA	9:A:351:HOH:O	1.66	0.95
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.49	0.95
3:N:610:LYS:CD	7:N:1527:MXP:H15	1.96	0.95
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.45	0.95
3:N:1405:GLU:O	3:N:1410:GLU:HA	1.67	0.95
1:K:42:ARG:HH12	1:L:34:VAL:HB	1.31	0.95
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.33	0.94
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.32	0.94
1:A:42:ARG:NH1	1:B:34:VAL:HB	1.82	0.94
3:D:581:LEU:HD12	3:D:603:LEU:HD11	1.50	0.94
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.49	0.94
2:C:12:VAL:HG21	2:C:472:ARG:HD3	1.48	0.94
1:A:42:ARG:HH12	1:B:34:VAL:CB	1.80	0.93
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.46	0.93
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.50	0.93
2:C:862:PRO:HA	2:C:975:TYR:HE1	1.32	0.93
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.50	0.93
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.48	0.93
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.52	0.92
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.52	0.92
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.52	0.92
3:D:1194:CYS:HB2	9:D:1762:HOH:O	1.70	0.92
2:M:890:LEU:HA	2:M:914:ILE:HD11	1.52	0.92
3:D:610:LYS:HD3	7:D:1527:MXP:H15	1.52	0.92
2:M:1054:THR:HG23	2:M:1082:PRO:HG3	1.48	0.92
3:N:581:LEU:HD12	3:N:603:LEU:HD11	1.51	0.91
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.51	0.91
3:D:611:GLN:HE22	3:D:1463:LYS:CE	1.84	0.91
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.01	0.91
3:D:508:ARG:HG2	3:D:509:PRO:HD2	1.52	0.91
2:M:66:LEU:HD22	2:M:372:LEU:HD23	1.53	0.91
3:D:100:ALA:HB2	3:D:513:ILE:HD13	1.50	0.91
3:D:611:GLN:NE2	3:D:1463:LYS:HE2	1.84	0.91
3:N:675:ARG:HH12	5:P:421:PHE:HD2	1.15	0.91
2:M:409:ARG:HA	2:M:454:SER:HA	1.53	0.91
3:D:1405:GLU:O	3:D:1410:GLU:HA	1.71	0.90
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.34	0.90
2:C:41:ASN:HD22	2:C:41:ASN:H	1.16	0.90
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.35	0.90
1:K:190:THR:HA	9:K:1309:HOH:O	1.70	0.90
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.53	0.90
3:D:406:ASP:HB3	5:F:168:LYS:HE2	1.54	0.89
3:D:87:ARG:HA	9:D:1713:HOH:O	1.71	0.89
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.54	0.89
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.54	0.89
2:M:874:LEU:HD21	3:N:787:LEU:HD22	1.53	0.88
5:P:128:ARG:O	5:P:132:ARG:HG3	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:204:LEU:HA	3:D:441:ARG:HH22	1.36	0.88
3:N:508:ARG:HG2	3:N:509:PRO:HD2	1.54	0.88
1:A:24:VAL:HG22	1:A:196:THR:HB	1.54	0.88
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.54	0.88
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.56	0.88
2:C:367:LEU:HA	2:C:371:LYS:HG3	1.53	0.88
2:C:1087:VAL:CG1	3:D:610:LYS:NZ	2.36	0.88
3:N:400:VAL:HG22	3:N:443:VAL:HG21	1.54	0.88
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.52	0.88
5:P:205:ARG:HD2	5:P:251:ILE:HD13	1.56	0.88
3:N:165:LYS:HB2	3:N:397:LYS:HB3	1.56	0.88
2:C:191:PHE:HZ	2:C:196:LEU:HB2	1.37	0.88
2:C:431:HIS:HB3	2:C:434:HIS:HD2	1.39	0.88
5:F:128:ARG:O	5:F:132:ARG:HG3	1.74	0.88
2:C:1008:ARG:HH11	2:C:1028:GLY:HA2	1.39	0.88
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.35	0.88
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.55	0.87
2:M:41:ASN:HD22	2:M:41:ASN:H	1.17	0.87
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.39	0.87
4:O:41:GLU:HA	4:O:45:ARG:HD3	1.57	0.87
2:C:671:ASN:HD22	2:C:671:ASN:N	1.70	0.87
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.56	0.87
1:L:194:LYS:HG2	9:L:1676:HOH:O	1.74	0.87
3:N:1406:ARG:HA	3:N:1410:GLU:HG2	1.56	0.87
2:M:367:LEU:HA	2:M:371:LYS:HG3	1.57	0.87
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.40	0.87
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.57	0.86
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.39	0.86
3:N:494:LYS:HA	9:N:1731:HOH:O	1.73	0.86
3:N:59:ALA:HB3	3:N:76:CYS:SG	2.14	0.86
3:N:116:LEU:HD21	3:N:464:LEU:HB3	1.56	0.86
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.56	0.86
2:M:762:LYS:HB2	2:M:786:LYS:HD2	1.55	0.86
2:C:121:MET:HA	9:C:1509:HOH:O	1.73	0.86
1:A:20:TYR:HD2	1:A:21:GLY:N	1.72	0.86
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.56	0.86
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.55	0.86
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.56	0.86
1:K:222:LEU:HD21	1:L:218:LEU:HD23	1.58	0.86
3:N:489:ARG:HH22	3:N:1389:LEU:HD21	1.40	0.85
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.58	0.85
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.57	0.85
3:N:201:GLY:HA2	3:N:396:VAL:O	1.74	0.85
3:N:187:LYS:HE2	3:N:199:LEU:HB3	1.56	0.85
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.56	0.85
2:C:1087:VAL:CG1	3:D:610:LYS:HZ1	1.87	0.85
3:D:400:VAL:HG22	3:D:443:VAL:HG21	1.57	0.85
3:N:204:LEU:HA	3:N:441:ARG:HH22	1.40	0.85
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.56	0.85
3:D:201:GLY:HA2	3:D:396:VAL:O	1.76	0.85
2:M:302:VAL:HG12	9:M:1862:HOH:O	1.75	0.85
4:E:41:GLU:HA	4:E:45:ARG:HD3	1.56	0.85
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.57	0.85
2:C:1084:SER:HB2	7:D:1527:MXP:O4	1.76	0.85
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.57	0.85
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.42	0.85
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.57	0.85
2:M:710:ILE:HB	2:M:790:LEU:HD13	1.59	0.85
1:A:103:ALA:HB1	1:A:107:LYS:HE2	1.57	0.84
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.58	0.84
1:B:58:ILE:HG22	1:B:137:ARG:HH21	1.41	0.84
3:D:59:ALA:HB3	3:D:76:CYS:SG	2.17	0.84
3:N:617:ASN:N	3:N:617:ASN:OD1	2.09	0.84
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.59	0.84
3:D:558:LEU:HD13	5:F:145:PRO:HB3	1.58	0.84
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.59	0.84
3:D:611:GLN:OE1	7:D:1527:MXP:H16B	1.78	0.84
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.42	0.84
4:O:95:VAL:HG13	9:O:1302:HOH:O	1.75	0.84
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.59	0.84
2:M:733:ALA:HB2	3:N:679:ARG:NH2	1.93	0.83
4:E:25:LYS:HE2	9:E:136:HOH:O	1.78	0.83
1:L:158:ILE:HD11	1:L:166:PRO:HA	1.60	0.83
1:B:158:ILE:HD11	1:B:166:PRO:HA	1.59	0.83
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.43	0.83
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.61	0.83
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.58	0.83
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.58	0.83
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.59	0.83
2:C:1009:SER:HB2	3:D:651:GLU:O	1.78	0.83
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.60	0.83
1:K:42:ARG:HH21	2:M:857:ASP:HB3	1.44	0.83
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.60	0.83
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.41	0.83
3:N:611:GLN:HG2	3:N:619:LEU:CD1	2.09	0.82
2:M:1005:MET:HE1	3:N:648:MET:HB2	1.61	0.82
1:B:132:LEU:HD13	1:B:138:LEU:HD12	1.61	0.82
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.59	0.82
3:N:615:ARG:HH21	3:N:1089:ALA:HB2	1.44	0.82
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.61	0.82
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.43	0.82
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.59	0.82
2:C:409:ARG:HA	2:C:454:SER:HA	1.61	0.82
2:C:877:PRO:HG2	3:D:1023:MET:HE2	1.59	0.82
3:D:1406:ARG:HA	3:D:1410:GLU:HG2	1.61	0.82
2:C:114:PHE:HD1	2:C:114:PHE:H	1.25	0.82
3:N:32:ILE:HA	9:N:1836:HOH:O	1.79	0.82
3:D:614:PHE:CD1	3:D:617:ASN:HA	2.14	0.82
3:N:465:LEU:HD21	9:N:1664:HOH:O	1.80	0.82
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.45	0.82
3:N:152:LEU:HD23	3:N:152:LEU:H	1.43	0.82
2:M:571:LEU:HD21	2:M:700:TYR:HA	1.60	0.82
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.60	0.82
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.60	0.82
2:M:643:VAL:HG23	9:M:1789:HOH:O	1.80	0.82
2:C:750:LYS:HG3	3:D:681:ARG:HH21	1.45	0.82
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.58	0.81
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.61	0.81
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.62	0.81
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.60	0.81
3:D:798:GLU:HB2	3:D:828:LYS:HE3	1.62	0.81
3:N:1115:THR:HB	9:N:1624:HOH:O	1.80	0.81
2:M:114:PHE:H	2:M:114:PHE:HD1	1.23	0.81
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.10	0.81
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.10	0.81
2:M:513:VAL:HB	9:M:1622:HOH:O	1.80	0.81
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.45	0.81
5:P:117:SER:HA	9:P:595:HOH:O	1.81	0.81
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.61	0.81
3:N:610:LYS:HD3	7:N:1527:MXP:H15B	1.58	0.80
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.60	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:169:GLY:HA2	2:C:263:ASP:HB3	1.63	0.80
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.62	0.80
2:C:860:HIS:HB2	9:C:1269:HOH:O	1.81	0.80
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.44	0.80
3:D:592:THR:H	3:D:600:LEU:HD21	1.46	0.80
2:C:436:GLY:O	2:C:459:ALA:HB2	1.81	0.80
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.63	0.80
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.63	0.80
2:C:413:LEU:HD12	2:C:413:LEU:H	1.45	0.80
3:N:699:VAL:H	3:N:756:GLN:NE2	1.80	0.80
1:L:4:SER:HA	1:L:7:LYS:HE2	1.63	0.80
2:M:786:LYS:HA	9:M:1657:HOH:O	1.80	0.80
3:D:1161:GLU:HG3	3:D:1164:ARG:HB2	1.64	0.80
2:M:599:GLU:HG3	2:M:600:ASP:H	1.46	0.80
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.63	0.80
3:N:135:LEU:HD11	9:N:2226:HOH:O	1.82	0.80
2:M:943:VAL:HG23	2:M:985:GLY:H	1.46	0.80
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.62	0.80
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.64	0.80
1:K:185:ARG:HA	9:K:1309:HOH:O	1.82	0.80
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.64	0.80
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.47	0.80
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.63	0.80
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	1.96	0.79
1:L:55:SER:HB3	1:L:143:ARG:HB3	1.64	0.79
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.64	0.79
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.64	0.79
2:C:76:PRO:HB3	9:C:1229:HOH:O	1.83	0.79
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.62	0.79
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.63	0.79
5:P:132:ARG:HG2	5:P:181:GLU:OE1	1.81	0.79
1:K:20:TYR:HD2	1:K:21:GLY:N	1.80	0.79
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.62	0.79
3:N:613:ARG:NH2	3:N:1097:LYS:HE2	1.97	0.79
2:C:199:VAL:HG21	9:C:1705:HOH:O	1.82	0.79
1:B:4:SER:HA	1:B:7:LYS:HE2	1.64	0.79
2:M:1008:ARG:HH11	2:M:1028:GLY:HA2	1.47	0.79
4:E:94:PRO:CD	9:E:180:HOH:O	2.25	0.79
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.62	0.79
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.63	0.79
3:N:783:ARG:NH1	3:N:1029:ARG:HG3	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:M:1937:HOH:O	3:N:1068:LEU:HD11	1.82	0.79
3:D:119:SER:H	3:D:123:LEU:HD22	1.46	0.79
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.64	0.79
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.64	0.79
1:A:222:LEU:HD23	1:B:215:VAL:HB	1.64	0.79
2:C:512:ARG:HD3	2:C:523:ILE:HD11	1.65	0.79
3:D:162:ARG:HB3	9:D:2186:HOH:O	1.81	0.79
5:F:293:GLU:HB3	9:F:578:HOH:O	1.82	0.79
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.47	0.78
3:N:546:ARG:O	3:N:550:ARG:HG2	1.81	0.78
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.65	0.78
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.65	0.78
2:M:630:ARG:NH1	2:M:707:ARG:H	1.81	0.78
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.64	0.78
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.19	0.78
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.84	0.78
3:N:798:GLU:HB2	3:N:828:LYS:HE3	1.65	0.78
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.64	0.78
4:O:46:PRO:HB3	4:O:54:LEU:HD22	1.64	0.78
3:N:493:ARG:HD2	3:N:1390:LEU:O	1.83	0.78
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.47	0.78
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.64	0.78
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.18	0.78
3:N:592:THR:H	3:N:600:LEU:HD21	1.47	0.78
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.64	0.78
2:M:413:LEU:H	2:M:413:LEU:HD12	1.48	0.78
1:L:58:ILE:HG22	1:L:137:ARG:HH21	1.48	0.78
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.64	0.78
3:N:55:ASP:HB3	9:N:1551:HOH:O	1.84	0.78
2:C:143:SER:HB2	2:C:276:LYS:HZ1	1.49	0.78
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.66	0.78
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.65	0.78
2:C:1087:VAL:HG13	3:D:610:LYS:HZ1	1.48	0.78
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.19	0.78
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.64	0.78
1:A:88:ARG:HA	9:A:344:HOH:O	1.82	0.78
3:D:1198:TYR:HA	9:D:2099:HOH:O	1.83	0.78
2:C:100:LEU:HD23	2:C:368:THR:HA	1.66	0.78
4:E:31:LEU:HD21	4:E:60:ALA:HB2	1.65	0.78
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.65	0.78
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:178:PRO:HA	9:C:1213:HOH:O	1.82	0.78
3:N:1312:LEU:HB2	9:N:2368:HOH:O	1.84	0.78
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.46	0.78
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.64	0.78
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.65	0.77
3:N:1291:SER:HB2	3:N:1293:PHE:HE1	1.48	0.77
2:M:12:VAL:HG12	2:M:534:VAL:HG13	1.64	0.77
3:D:610:LYS:CD	7:D:1527:MXP:H15B	2.06	0.77
3:N:116:LEU:HD22	3:N:118:LEU:HD11	1.67	0.77
1:B:32:PHE:HB2	9:B:398:HOH:O	1.84	0.77
2:C:1083:GLU:HG2	9:D:1751:HOH:O	1.82	0.77
2:M:797:GLY:HA2	9:M:1828:HOH:O	1.83	0.77
3:D:615:ARG:O	3:D:617:ASN:N	2.17	0.77
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.67	0.77
3:D:116:LEU:HD21	3:D:464:LEU:HB3	1.66	0.77
3:D:403:PHE:HD1	3:D:405:ASP:O	1.67	0.77
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.67	0.77
2:C:163:ILE:HB	2:C:171:TRP:CH2	2.18	0.77
3:N:32:ILE:HG22	5:P:258:ILE:HD12	1.66	0.77
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.64	0.77
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.64	0.77
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.67	0.77
3:D:400:VAL:CG2	3:D:443:VAL:HG21	2.15	0.77
2:M:87:ASP:HA	9:M:1651:HOH:O	1.83	0.77
2:C:766:GLU:HG2	2:C:772:ARG:HH12	1.50	0.77
2:M:512:ARG:HD3	2:M:523:ILE:HD11	1.65	0.77
5:F:132:ARG:HG2	5:F:181:GLU:OE1	1.85	0.77
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.65	0.77
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.66	0.77
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.67	0.77
2:M:431:HIS:HB3	2:M:434:HIS:HD2	1.48	0.77
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.49	0.77
5:P:142:ARG:HD2	9:P:502:HOH:O	1.85	0.77
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.49	0.77
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.67	0.77
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.49	0.76
3:D:135:LEU:HD23	9:D:1592:HOH:O	1.86	0.76
2:C:760:SER:HA	9:C:1430:HOH:O	1.85	0.76
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.66	0.76
3:D:1112:CYS:HB2	3:D:1195:GLN:HG2	1.67	0.76
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.66	0.76
3:D:1191:PRO:HA	9:D:1762:HOH:O	1.86	0.76
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.01	0.76
3:N:611:GLN:HG2	3:N:619:LEU:HG	1.66	0.76
1:L:60:ASP:HB2	1:L:137:ARG:CZ	2.16	0.76
2:C:468:ARG:HB2	2:C:486:MET:O	1.85	0.76
3:N:863:VAL:HG23	9:N:1635:HOH:O	1.85	0.76
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.65	0.76
2:C:1103:ASP:OD1	3:D:3:LYS:HB2	1.85	0.76
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.66	0.76
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.66	0.76
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.85	0.76
3:D:152:LEU:HD23	3:D:152:LEU:H	1.50	0.76
2:M:914:ILE:HB	9:M:1825:HOH:O	1.85	0.76
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.17	0.76
3:N:489:ARG:NH2	3:N:1389:LEU:HD21	2.00	0.76
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.68	0.76
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.66	0.76
3:D:544:TYR:O	3:D:548:ILE:HG12	1.85	0.76
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.68	0.76
3:N:850:LEU:H	3:N:850:LEU:HD12	1.48	0.76
1:K:103:ALA:HB1	1:K:107:LYS:HE2	1.67	0.76
2:C:108:ILE:HB	2:C:368:THR:OG1	1.86	0.76
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.67	0.76
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.66	0.76
3:N:1094:LEU:O	3:N:1098:LEU:HD13	1.86	0.76
2:C:905:ILE:H	2:C:905:ILE:HD12	1.50	0.76
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.66	0.76
3:N:608:SER:HA	3:N:1443:THR:HG21	1.66	0.76
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.21	0.76
3:D:28:LYS:HG3	3:D:41:ARG:HH11	1.50	0.76
3:N:400:VAL:CG2	3:N:443:VAL:HG21	2.17	0.75
5:F:155:THR:O	5:F:159:ILE:HG12	1.86	0.75
3:N:1062:ARG:HB2	9:N:1637:HOH:O	1.84	0.75
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.66	0.75
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.67	0.75
3:N:101:HIS:ND1	3:N:103:TRP:HB2	1.99	0.75
3:D:13:ALA:HA	9:D:1541:HOH:O	1.86	0.75
3:D:804:LEU:HB2	3:D:830:ALA:O	1.86	0.75
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.68	0.75
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.22	0.75
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.67	0.75
2:C:54:ILE:HG21	9:C:1578:HOH:O	1.86	0.75
2:M:534:VAL:HB	9:M:1660:HOH:O	1.87	0.75
3:N:100:ALA:HB2	3:N:513:ILE:CD1	2.16	0.75
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.69	0.75
5:P:139:ALA:HA	5:P:152:ASP:CG	2.06	0.75
5:P:155:THR:O	5:P:159:ILE:HG12	1.86	0.75
2:M:691:SER:HB2	2:M:858:MET:SD	2.26	0.75
2:M:671:ASN:HD22	2:M:671:ASN:N	1.83	0.75
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.66	0.75
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.68	0.75
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.51	0.75
3:D:1040:GLY:O	3:D:1060:SER:HB3	1.86	0.75
3:D:508:ARG:HB3	9:D:1761:HOH:O	1.86	0.75
1:B:55:SER:HB3	1:B:143:ARG:HB3	1.68	0.75
5:F:87:GLU:O	5:F:91:VAL:HG23	1.85	0.75
3:D:850:LEU:HD12	3:D:850:LEU:H	1.49	0.75
1:K:18:ARG:HH11	1:K:123:MET:HE2	1.52	0.75
3:N:611:GLN:HE22	7:N:1527:MXP:H16B	1.50	0.75
5:P:132:ARG:O	5:P:136:LEU:HG	1.87	0.75
2:C:325:ILE:HG23	9:C:1315:HOH:O	1.86	0.75
3:N:611:GLN:HG2	3:N:619:LEU:CG	2.17	0.74
1:B:34:VAL:HG22	1:B:181:VAL:HG21	1.68	0.74
4:E:45:ARG:HE	4:E:55:PHE:HD2	1.33	0.74
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.70	0.74
3:D:458:ALA:HB1	3:D:513:ILE:HD12	1.67	0.74
3:N:171:LEU:HG	9:N:1934:HOH:O	1.86	0.74
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.68	0.74
3:N:1420:LEU:HD12	3:N:1421:LEU:H	1.51	0.74
2:C:979:THR:HG23	2:C:981:GLU:H	1.52	0.74
3:D:1045:MET:HB2	3:D:1072:ILE:HG22	1.70	0.74
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.69	0.74
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.70	0.74
3:N:1264:GLU:HG3	3:N:1424:VAL:HG12	1.69	0.74
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.02	0.74
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.22	0.74
2:C:1056:LYS:O	3:D:624:ASP:HB2	1.87	0.74
5:F:274:THR:O	5:F:278:LEU:HG	1.88	0.74
1:K:226:SER:O	1:K:228:PRO:HD3	1.88	0.74
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.68	0.74
3:N:458:ALA:HB1	3:N:513:ILE:HD12	1.68	0.74
2:M:139:GLN:OE1	2:M:415:PRO:HD2	1.88	0.74
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.51	0.74
3:N:1324:PRO:HA	9:N:1761:HOH:O	1.87	0.74
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.88	0.74
3:D:171:LEU:HB2	3:D:391:ALA:O	1.86	0.74
9:M:2128:HOH:O	3:N:1047:LYS:HE2	1.86	0.74
5:P:101:GLU:HB3	5:P:105:LYS:HE3	1.69	0.74
3:N:489:ARG:HG3	3:N:1388:ARG:HH22	1.53	0.74
2:M:431:HIS:HB3	2:M:434:HIS:CD2	2.23	0.74
9:C:1263:HOH:O	5:F:331:ASP:HA	1.88	0.73
1:B:201:THR:HG22	1:B:203:GLY:H	1.53	0.73
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.70	0.73
3:N:206:ARG:HH12	5:P:98:GLU:HA	1.50	0.73
3:N:1209:LEU:HD23	3:N:1211:MET:SD	2.28	0.73
1:K:42:ARG:HH21	2:M:857:ASP:CB	2.00	0.73
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.23	0.73
2:C:1014:SER:HB3	2:C:1017:THR:O	1.88	0.73
2:C:222:MET:HB3	9:C:1633:HOH:O	1.88	0.73
3:N:37:LEU:HB3	9:N:1894:HOH:O	1.88	0.73
1:B:176:ARG:HH21	3:D:850:LEU:HD13	1.53	0.73
2:C:191:PHE:CZ	2:C:196:LEU:HB2	2.22	0.73
5:F:400:ILE:HG22	9:F:568:HOH:O	1.88	0.73
3:D:569:ASN:HB3	5:F:214:GLN:NE2	2.03	0.73
3:N:171:LEU:HB2	3:N:391:ALA:O	1.87	0.73
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.71	0.73
1:K:22:GLU:HB3	9:K:1055:HOH:O	1.88	0.73
3:D:677:LEU:HD11	9:D:2185:HOH:O	1.88	0.73
3:N:804:LEU:HB2	3:N:830:ALA:O	1.87	0.73
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.19	0.73
2:C:1008:ARG:HD2	2:C:1028:GLY:H	1.53	0.73
5:F:394:ARG:CZ	5:F:398:ARG:HB2	2.19	0.73
1:L:213:GLN:O	1:L:217:ILE:HD12	1.88	0.73
2:C:654:LEU:HD11	2:C:663:ASN:ND2	2.03	0.73
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.69	0.73
1:B:60:ASP:HB2	1:B:137:ARG:CZ	2.19	0.73
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.54	0.73
2:C:109:LYS:HE2	2:C:111:ASP:OD1	1.88	0.73
2:C:431:HIS:HB3	2:C:434:HIS:CD2	2.22	0.73
2:M:431:HIS:CD2	2:M:433:THR:H	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.69	0.73
1:A:226:SER:O	1:A:228:PRO:HD3	1.89	0.73
3:D:453:ASP:HB2	9:D:1592:HOH:O	1.87	0.73
1:B:138:LEU:HD23	1:B:140:MET:SD	2.28	0.73
1:B:58:ILE:HG22	1:B:137:ARG:NH2	2.03	0.73
3:N:536:ALA:HA	5:P:315:VAL:O	1.88	0.73
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.70	0.73
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.71	0.73
3:D:80:VAL:HG23	9:D:1536:HOH:O	1.87	0.72
2:M:140:ILE:HA	2:M:332:ARG:O	1.88	0.72
2:M:256:TYR:HE1	2:M:293:PHE:HB2	1.52	0.72
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.69	0.72
2:C:42:VAL:HG12	2:C:43:GLY:H	1.54	0.72
2:C:943:VAL:HG23	2:C:985:GLY:H	1.54	0.72
1:B:36:LEU:O	1:B:39:PRO:HD2	1.90	0.72
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.69	0.72
2:M:738:ASP:HB2	2:M:744:ARG:HB3	1.70	0.72
1:K:67:THR:CG2	2:M:609:ASN:HD21	1.98	0.72
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.71	0.72
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.69	0.72
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.70	0.72
1:L:80:LEU:HD12	9:L:3794:HOH:O	1.88	0.72
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.04	0.72
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.05	0.72
2:C:276:LYS:HB3	9:C:1337:HOH:O	1.87	0.72
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.54	0.72
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.71	0.72
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.70	0.72
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.54	0.72
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.72	0.72
3:N:570:GLU:N	5:P:214:GLN:HE22	1.88	0.72
3:D:400:VAL:HG12	9:D:2306:HOH:O	1.87	0.72
2:C:147:TYR:HE2	2:C:280:LYS:HZ3	1.36	0.72
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.53	0.72
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.25	0.72
2:M:958:THR:HA	9:M:1887:HOH:O	1.89	0.72
2:C:768:THR:HB	2:C:771:GLU:HB3	1.71	0.72
2:C:274:ARG:HD2	2:C:285:LEU:O	1.90	0.72
3:N:808:THR:HB	3:N:809:PRO:HD3	1.70	0.72
2:C:352:ALA:O	2:C:356:ARG:HG3	1.89	0.72
3:N:572:ARG:HH12	5:P:79:ASP:CG	1.92	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.04	0.72
2:M:1115:LEU:HB3	3:N:85:VAL:HG13	1.71	0.72
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.24	0.72
5:P:92:PRO:HB3	9:P:672:HOH:O	1.88	0.72
2:C:305:PRO:HA	2:C:308:ARG:HB2	1.70	0.72
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.04	0.72
3:D:810:GLU:O	3:D:813:LEU:HG	1.88	0.72
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.70	0.72
3:D:546:ARG:O	3:D:550:ARG:HG2	1.90	0.72
2:C:603:VAL:HG12	9:C:1531:HOH:O	1.90	0.72
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.71	0.72
3:D:1377:LYS:HA	9:D:2039:HOH:O	1.89	0.71
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.70	0.71
5:P:132:ARG:HD2	9:P:505:HOH:O	1.89	0.71
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.69	0.71
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.71
3:D:206:ARG:HH12	5:F:98:GLU:CA	2.03	0.71
2:M:535:SER:HB2	2:M:537:LYS:HE3	1.72	0.71
4:O:45:ARG:HG2	9:O:1147:HOH:O	1.90	0.71
2:C:654:LEU:HD11	2:C:663:ASN:HD22	1.56	0.71
3:N:406:ASP:HB3	5:P:168:LYS:HE2	1.70	0.71
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.90	0.71
1:K:28:LEU:HD12	9:K:2517:HOH:O	1.88	0.71
2:M:408:ARG:HH21	2:M:542:VAL:HG22	1.55	0.71
2:C:630:ARG:HA	9:C:1414:HOH:O	1.90	0.71
5:F:139:ALA:HA	5:F:152:ASP:CG	2.11	0.71
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.73	0.71
5:P:204:GLY:HA3	9:P:572:HOH:O	1.89	0.71
3:D:1239:ARG:HG3	9:D:2068:HOH:O	1.91	0.71
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.54	0.71
3:N:1210:SER:HA	9:N:1732:HOH:O	1.90	0.71
2:M:569:VAL:HG12	2:M:996:LYS:O	1.89	0.71
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.71	0.71
1:B:61:VAL:HG23	1:B:137:ARG:HH22	1.56	0.71
5:F:88:ILE:HG21	5:F:193:ARG:HD3	1.73	0.71
2:C:713:ARG:NH2	3:D:531:ASP:HB3	2.06	0.71
1:L:83:LYS:HE2	1:L:168:ASP:HB2	1.71	0.71
1:A:221:HIS:HA	1:A:224:TYR:HD2	1.55	0.71
2:M:298:PHE:HA	9:M:2058:HOH:O	1.90	0.71
2:C:685:GLU:N	9:C:1222:HOH:O	2.23	0.71
3:N:86:ARG:O	3:N:522:PRO:HD2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:724:ARG:HG2	2:C:734:LEU:HD23	1.73	0.71
2:C:738:ASP:HB2	2:C:744:ARG:HB3	1.71	0.71
2:C:671:ASN:H	2:C:671:ASN:HD22	1.36	0.71
2:C:157:ARG:HA	9:C:1318:HOH:O	1.90	0.71
3:N:611:GLN:O	3:N:1439:SER:O	2.09	0.71
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.56	0.71
5:F:151:LEU:O	5:F:155:THR:HB	1.90	0.71
2:M:1021:LEU:HD21	5:P:332:PHE:O	1.91	0.71
3:D:105:VAL:HG21	3:D:128:TYR:HE2	1.55	0.71
2:M:420:ARG:HB2	9:M:1926:HOH:O	1.90	0.71
3:D:894:LYS:HA	9:D:1776:HOH:O	1.91	0.71
3:N:15:PRO:HB3	9:N:1827:HOH:O	1.90	0.71
2:M:551:GLU:HG3	2:M:552:HIS:CD2	2.25	0.71
3:N:574:LEU:O	3:N:578:VAL:HG23	1.91	0.71
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.54	0.71
3:D:574:LEU:O	3:D:578:VAL:HG23	1.90	0.71
2:C:676:ILE:O	2:C:676:ILE:HG23	1.91	0.71
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.56	0.70
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.21	0.70
3:D:131:LYS:HG2	3:D:568:ARG:HG2	1.72	0.70
2:M:514:VAL:HB	9:M:2025:HOH:O	1.91	0.70
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.73	0.70
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.73	0.70
3:N:611:GLN:CD	3:N:619:LEU:HD21	2.12	0.70
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.26	0.70
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.72	0.70
3:D:185:VAL:HG22	3:D:191:LEU:HD21	1.71	0.70
2:C:76:PRO:HB2	9:C:1121:HOH:O	1.91	0.70
2:M:12:VAL:HG21	2:M:472:ARG:HD3	1.74	0.70
2:M:716:LYS:HB2	9:M:2121:HOH:O	1.91	0.70
3:N:1161:GLU:HG3	3:N:1164:ARG:HB2	1.73	0.70
3:N:1215:VAL:HG13	9:N:1985:HOH:O	1.90	0.70
2:M:789:SER:HB2	9:M:1726:HOH:O	1.90	0.70
1:B:55:SER:CB	1:B:158:ILE:HD13	2.21	0.70
2:C:163:ILE:HD13	9:C:1347:HOH:O	1.90	0.70
1:L:197:LEU:HD21	1:L:199:ILE:HD11	1.73	0.70
5:F:361:LEU:HD12	5:F:408:LEU:HD11	1.74	0.70
2:M:890:LEU:HD12	2:M:914:ILE:HD13	1.71	0.70
2:M:889:HIS:HE1	3:N:951:ILE:H	1.37	0.70
2:C:399:ASN:O	2:C:402:SER:HB2	1.92	0.70
5:F:358:LEU:HD21	5:F:370:LYS:HZ2	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1077:ALA:HA	9:N:1738:HOH:O	1.90	0.70
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.74	0.70
3:D:614:PHE:C	3:D:615:ARG:O	2.26	0.70
1:L:132:LEU:HD13	1:L:138:LEU:HD12	1.74	0.70
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.25	0.70
1:A:107:LYS:HG2	9:A:404:HOH:O	1.91	0.70
3:N:785:ILE:HD13	3:N:935:LYS:HA	1.74	0.70
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.72	0.70
2:M:45:GLN:HA	9:M:1991:HOH:O	1.89	0.70
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.72	0.70
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.72	0.70
3:D:206:ARG:HH12	5:F:98:GLU:N	1.90	0.70
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.72	0.70
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.70
3:N:433:GLY:HA3	3:N:447:VAL:O	1.90	0.70
2:C:156:GLY:HA3	9:C:1282:HOH:O	1.90	0.70
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.73	0.70
3:D:1101:VAL:HA	3:D:1428:ALA:HB2	1.72	0.70
2:M:163:ILE:HG13	2:M:163:ILE:O	1.91	0.70
3:D:433:GLY:HA3	3:D:447:VAL:O	1.90	0.70
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.21	0.70
2:C:3:ILE:HA	2:C:900:ARG:O	1.91	0.70
2:M:855:VAL:HG12	9:M:1977:HOH:O	1.90	0.70
2:C:838:LYS:HE3	2:C:846:LYS:HE2	1.71	0.70
1:B:59:GLU:HG3	1:B:139:ASN:HD22	1.57	0.70
1:L:55:SER:CB	1:L:158:ILE:HD13	2.21	0.70
2:C:276:LYS:HD2	9:C:1736:HOH:O	1.90	0.70
3:D:1114:THR:H	3:D:1195:GLN:HE21	1.39	0.70
2:M:191:PHE:HB2	2:M:241:LEU:HD13	1.74	0.70
3:D:105:VAL:HG21	3:D:128:TYR:CE2	2.27	0.70
1:L:201:THR:HG22	1:L:203:GLY:H	1.55	0.70
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.55	0.70
2:M:1009:SER:HB2	3:N:651:GLU:O	1.91	0.70
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.74	0.70
2:M:436:GLY:HA2	2:M:538:GLN:O	1.92	0.70
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	1.92	0.70
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.27	0.70
3:N:810:GLU:O	3:N:813:LEU:HG	1.92	0.70
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.73	0.70
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.06	0.70
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:394:ARG:CZ	5:P:398:ARG:HB2	2.21	0.70
1:L:148:VAL:HG22	9:L:3229:HOH:O	1.92	0.70
4:O:45:ARG:HD2	9:O:1011:HOH:O	1.92	0.69
3:N:481:MET:HG3	3:N:1388:ARG:CZ	2.22	0.69
3:D:73:CYS:HB3	3:D:76:CYS:O	1.92	0.69
1:B:158:ILE:HD11	1:B:166:PRO:CA	2.22	0.69
2:C:139:GLN:NE2	2:C:415:PRO:HD2	2.07	0.69
2:M:511:GLU:O	2:M:526:PRO:HD3	1.92	0.69
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.91	0.69
2:M:219:GLN:HG3	9:M:1965:HOH:O	1.90	0.69
2:C:572:ILE:HG13	9:C:1310:HOH:O	1.92	0.69
3:D:607:LEU:O	3:D:610:LYS:HB2	1.92	0.69
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.73	0.69
4:O:45:ARG:HB2	4:O:46:PRO:HD2	1.74	0.69
2:C:671:ASN:ND2	2:C:671:ASN:N	2.40	0.69
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.27	0.69
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.74	0.69
3:N:680:GLN:HB2	9:N:2087:HOH:O	1.92	0.69
9:N:2060:HOH:O	5:P:147:LEU:HD21	1.91	0.69
3:D:611:GLN:HB2	7:D:1527:MXP:H11A	1.73	0.69
1:K:184:THR:HG23	1:K:192:LEU:HB2	1.74	0.69
1:K:24:VAL:HG22	1:K:196:THR:HB	1.74	0.69
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.26	0.69
5:F:279:GLN:HA	9:F:487:HOH:O	1.91	0.69
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.22	0.69
3:D:1243:THR:OG1	3:D:1253:THR:HB	1.92	0.69
5:P:367:MET:HB2	9:P:493:HOH:O	1.92	0.69
2:C:307:LEU:HG	2:C:311:PHE:HE2	1.57	0.69
1:K:7:LYS:NZ	1:K:186:LEU:HD21	2.07	0.69
2:C:276:LYS:O	2:C:280:LYS:HB2	1.93	0.69
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.08	0.69
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.73	0.69
1:B:158:ILE:HG22	1:B:160:ASP:H	1.56	0.69
2:C:139:GLN:OE1	2:C:415:PRO:HD2	1.92	0.69
2:C:436:GLY:HA2	2:C:538:GLN:O	1.92	0.69
2:C:603:VAL:HG13	9:C:1654:HOH:O	1.93	0.69
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.75	0.69
2:C:732:ALA:HB3	9:C:1588:HOH:O	1.93	0.69
3:N:1086:LEU:HB2	9:N:2385:HOH:O	1.91	0.69
2:M:143:SER:HB2	2:M:276:LYS:NZ	2.07	0.69
5:P:166:LEU:O	5:P:171:LYS:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:171:LYS:HD3	9:F:640:HOH:O	1.91	0.69
2:M:838:LYS:HE3	2:M:846:LYS:HE2	1.72	0.69
3:N:1001:GLU:HG2	9:N:2222:HOH:O	1.93	0.69
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.73	0.69
1:K:183:ASP:HB3	9:K:3288:HOH:O	1.93	0.69
4:E:47:LYS:HA	9:E:150:HOH:O	1.93	0.69
2:C:909:ALA:HB1	9:C:1225:HOH:O	1.92	0.69
2:M:468:ARG:HB2	2:M:486:MET:O	1.92	0.69
2:M:141:HIS:HB3	2:M:418:LEU:HG	1.75	0.69
2:M:352:ALA:O	2:M:356:ARG:HG3	1.93	0.69
3:N:675:ARG:NH1	5:P:421:PHE:HD2	1.90	0.69
3:N:877:PRO:O	3:N:880:ILE:HG22	1.93	0.69
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.91	0.69
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.27	0.69
2:M:905:ILE:HD12	2:M:905:ILE:H	1.57	0.69
2:M:311:PHE:HB3	9:M:1792:HOH:O	1.92	0.69
5:F:392:VAL:HG12	9:F:496:HOH:O	1.92	0.69
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.73	0.69
3:N:149:LYS:HG3	9:N:2241:HOH:O	1.91	0.69
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.74	0.69
5:P:132:ARG:HG2	5:P:181:GLU:CD	2.14	0.69
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.56	0.69
2:M:521:PRO:HG3	3:N:1068:LEU:HD23	1.75	0.69
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.75	0.69
3:D:799:LYS:H	3:D:826:PRO:HG2	1.58	0.69
1:A:58:ILE:HB	1:A:61:VAL:HB	1.75	0.69
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.75	0.69
2:C:86:LYS:HD3	2:C:813:VAL:HG12	1.74	0.69
2:C:541:SER:HB2	9:C:1523:HOH:O	1.93	0.69
3:N:484:PRO:HB3	9:N:1630:HOH:O	1.91	0.69
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.58	0.69
2:M:751:PRO:HG3	2:M:795:GLY:O	1.92	0.69
3:N:124:GLU:O	3:N:128:TYR:HB2	1.93	0.69
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.73	0.69
2:M:28:ARG:NH1	2:M:463:GLU:HG2	2.07	0.69
2:C:396:ASP:HA	2:C:633:GLN:NE2	2.08	0.69
1:A:97:VAL:HG23	9:A:349:HOH:O	1.92	0.69
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.07	0.69
4:O:46:PRO:HD2	9:O:1011:HOH:O	1.92	0.68
3:D:206:ARG:HH12	5:F:98:GLU:HA	1.57	0.68
2:C:634:GLY:HA3	9:C:1157:HOH:O	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:36:THR:HA	9:N:2104:HOH:O	1.93	0.68
1:K:69:PRO:HB3	9:M:1747:HOH:O	1.93	0.68
3:N:1354:LYS:HA	9:N:1826:HOH:O	1.92	0.68
1:A:111:ALA:HB2	1:A:127:LEU:HG	1.75	0.68
1:B:58:ILE:HB	1:B:61:VAL:HB	1.73	0.68
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.74	0.68
4:E:17:TYR:O	4:E:21:VAL:HG23	1.92	0.68
2:M:575:GLN:OE1	2:M:670:GLN:HB3	1.93	0.68
3:D:29:PRO:HG2	3:D:549:ASN:ND2	2.07	0.68
2:C:399:ASN:HB3	2:C:568:ALA:O	1.93	0.68
2:M:838:LYS:HE3	2:M:997:LEU:HD12	1.75	0.68
3:N:646:LYS:HE2	3:N:722:GLU:HG2	1.75	0.68
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.75	0.68
3:N:428:LYS:HD3	9:N:2334:HOH:O	1.93	0.68
3:N:1162:GLU:HB3	9:N:1922:HOH:O	1.92	0.68
5:P:87:GLU:O	5:P:91:VAL:HG23	1.92	0.68
1:L:101:LEU:HG	9:L:2708:HOH:O	1.91	0.68
4:O:45:ARG:HE	4:O:55:PHE:HD2	1.40	0.68
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.58	0.68
3:N:555:LYS:HB3	9:N:1956:HOH:O	1.93	0.68
3:N:1317:ASP:HB2	9:N:1639:HOH:O	1.93	0.68
3:N:1112:CYS:HB2	3:N:1195:GLN:HG2	1.75	0.68
2:C:73:LEU:HD22	2:C:118:ILE:HD11	1.75	0.68
3:N:403:PHE:HD1	3:N:405:ASP:O	1.76	0.68
3:N:523:ASP:HB3	9:N:1572:HOH:O	1.93	0.68
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.73	0.68
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.76	0.68
1:B:52:ALA:HB2	1:B:170:VAL:O	1.93	0.68
3:N:119:SER:H	3:N:123:LEU:HD22	1.56	0.68
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.57	0.68
5:F:88:ILE:HD13	5:F:193:ARG:HD2	1.75	0.68
2:M:750:LYS:HD3	9:N:2087:HOH:O	1.93	0.68
2:C:811:PRO:HB2	2:C:813:VAL:HG13	1.74	0.68
1:B:109:VAL:HG21	1:B:138:LEU:CD1	2.19	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.74	0.68
2:C:1107:ASN:HB3	9:C:1226:HOH:O	1.94	0.68
3:D:565:ILE:HD12	5:F:192:LEU:HD13	1.75	0.68
2:C:619:ARG:HG2	9:C:1584:HOH:O	1.94	0.68
3:N:607:LEU:O	3:N:610:LYS:HB2	1.93	0.68
3:N:610:LYS:HB3	9:N:1557:HOH:O	1.94	0.68
3:N:46:ASP:OD2	3:N:48:ARG:HG2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:GLN:O	1:B:217:ILE:HD12	1.94	0.68
3:D:704:ARG:HG2	3:D:705:ALA:H	1.57	0.68
5:P:77:THR:O	5:P:81:VAL:HG23	1.93	0.68
5:F:147:LEU:HB2	9:F:2238:HOH:O	1.94	0.68
2:C:299:LYS:HB3	9:C:1267:HOH:O	1.94	0.68
2:M:108:ILE:HB	2:M:368:THR:OG1	1.94	0.68
5:F:129:GLU:HG2	9:F:492:HOH:O	1.93	0.68
1:L:158:ILE:HG13	1:L:166:PRO:HB3	1.76	0.68
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.29	0.68
3:D:1239:ARG:HB2	9:D:2065:HOH:O	1.94	0.68
3:N:672:ALA:HB1	9:N:1656:HOH:O	1.93	0.68
3:D:153:LEU:HD11	3:D:158:TYR:N	2.09	0.68
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.91	0.68
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.29	0.68
5:P:218:GLN:HA	5:P:221:ILE:HD12	1.75	0.68
2:C:145:GLY:O	2:C:163:ILE:HG23	1.93	0.68
3:N:535:PHE:O	5:P:315:VAL:N	2.26	0.68
3:D:162:ARG:HA	3:D:449:SER:CB	2.24	0.68
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	1.75	0.68
1:L:128:HIS:HB2	9:L:3368:HOH:O	1.93	0.68
1:A:100:LEU:HB2	1:A:115:LEU:HD11	1.76	0.68
1:A:136:GLY:HA3	9:A:320:HOH:O	1.93	0.68
1:K:133:GLU:HG2	1:K:134:GLU:N	2.07	0.68
5:P:133:ALA:HA	9:P:567:HOH:O	1.92	0.68
2:C:915:LYS:HE3	9:C:1136:HOH:O	1.94	0.68
2:C:578:VAL:HG13	2:C:671:ASN:OD1	1.93	0.68
3:N:108:VAL:HG21	9:N:2073:HOH:O	1.94	0.68
2:C:874:LEU:HD12	3:D:784:ASP:OD2	1.94	0.68
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.94	0.68
5:P:368:VAL:HG22	9:P:506:HOH:O	1.93	0.68
2:C:815:LEU:HD13	9:C:1286:HOH:O	1.94	0.68
3:D:723:GLY:HA3	9:D:1680:HOH:O	1.94	0.68
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.75	0.68
2:M:492:ASP:HA	9:M:1901:HOH:O	1.92	0.68
2:C:599:GLU:HG3	2:C:600:ASP:H	1.59	0.68
2:M:145:GLY:O	2:M:163:ILE:HG23	1.94	0.67
3:D:586:ARG:HH12	3:D:1444:THR:HG21	1.58	0.67
1:B:158:ILE:HG13	1:B:166:PRO:HB3	1.76	0.67
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.29	0.67
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.76	0.67
3:N:1430:SER:HA	9:N:2035:HOH:O	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:611:GLN:NE2	7:N:1527:MXP:H16B	2.09	0.67
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.75	0.67
2:C:339:LEU:HD11	9:C:1322:HOH:O	1.94	0.67
4:O:88:GLU:HG3	9:O:2559:HOH:O	1.93	0.67
3:D:805:GLU:HG3	9:D:1779:HOH:O	1.93	0.67
2:M:292:ARG:HB3	9:M:2058:HOH:O	1.93	0.67
4:O:9:LEU:HB3	4:O:19:LEU:HD21	1.76	0.67
2:M:93:PRO:HG3	2:M:117:HIS:CE1	2.29	0.67
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.76	0.67
2:C:914:ILE:HB	9:C:1225:HOH:O	1.93	0.67
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.30	0.67
1:A:103:ALA:CB	1:A:107:LYS:HE2	2.24	0.67
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.75	0.67
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.77	0.67
2:M:660:ALA:HB1	2:M:667:ALA:O	1.93	0.67
3:N:658:LEU:O	3:N:661:MET:HB2	1.94	0.67
2:M:793:PRO:HD2	9:M:2061:HOH:O	1.93	0.67
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.74	0.67
1:L:180:GLN:HB3	9:L:1094:HOH:O	1.95	0.67
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.94	0.67
2:M:445:GLU:HG2	9:M:1876:HOH:O	1.94	0.67
2:M:283:ILE:HD11	9:M:2124:HOH:O	1.95	0.67
5:F:408:LEU:O	5:F:412:GLU:HG2	1.95	0.67
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.77	0.67
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.95	0.67
2:M:979:THR:HG23	2:M:981:GLU:H	1.59	0.67
3:N:28:LYS:HG3	3:N:41:ARG:HH11	1.59	0.67
2:M:318:PRO:HA	9:M:1903:HOH:O	1.94	0.67
4:O:48:MET:O	4:O:52:GLU:HA	1.94	0.67
3:N:1152:GLU:CD	3:N:1159:ARG:HH12	1.97	0.67
5:P:408:LEU:O	5:P:412:GLU:HG2	1.93	0.67
3:N:544:TYR:O	3:N:548:ILE:HG12	1.93	0.67
5:P:268:ILE:HD13	5:P:311:ALA:HB2	1.77	0.67
5:F:361:LEU:HD23	5:F:362:SER:H	1.58	0.67
3:N:141:ILE:CG2	3:N:450:TYR:H	2.08	0.67
2:M:724:ARG:HG2	2:M:734:LEU:HD23	1.77	0.67
1:L:61:VAL:HG23	1:L:137:ARG:HH22	1.59	0.67
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.24	0.67
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.30	0.67
3:N:1277:ILE:HA	9:N:1570:HOH:O	1.95	0.67
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:764:LEU:HD23	3:N:767:HIS:ND1	2.10	0.67
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.77	0.67
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.77	0.67
3:D:617:ASN:HB2	3:D:618:LEU:HD12	1.77	0.67
3:D:1432:LYS:HG2	9:D:1537:HOH:O	1.93	0.67
2:M:722:ILE:HG21	2:M:821:GLU:OE1	1.94	0.67
3:N:508:ARG:HB3	9:N:1796:HOH:O	1.95	0.67
2:C:328:LEU:HD13	2:C:433:THR:HB	1.76	0.67
2:C:464:LEU:HG	9:C:1551:HOH:O	1.94	0.67
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.77	0.67
3:N:65:ARG:CG	3:N:66:GLN:H	2.07	0.67
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.77	0.67
3:N:804:LEU:HD23	3:N:804:LEU:H	1.60	0.67
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.30	0.67
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.94	0.67
1:B:60:ASP:H	1:B:137:ARG:NH2	1.92	0.67
1:K:123:MET:O	1:K:125:PRO:HD3	1.95	0.67
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.75	0.67
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.75	0.67
3:N:996:TRP:HA	3:N:999:THR:HG22	1.77	0.67
3:D:658:LEU:O	3:D:661:MET:HB2	1.95	0.67
5:F:191:ASN:HB3	5:F:220:LEU:HD11	1.76	0.67
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.95	0.67
5:P:295:MET:HG2	5:P:299:TRP:CD2	2.30	0.67
2:M:805:ARG:HG3	2:M:823:VAL:HG22	1.77	0.67
3:N:556:LYS:HB3	5:P:218:GLN:HE22	1.59	0.67
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.77	0.67
3:D:785:ILE:HD13	3:D:935:LYS:HA	1.75	0.67
2:M:770:GLU:HG2	9:M:2011:HOH:O	1.94	0.67
5:F:110:MET:HB2	9:F:483:HOH:O	1.94	0.67
3:D:16:GLU:HA	9:D:2072:HOH:O	1.95	0.67
3:D:613:ARG:HB2	9:D:1834:HOH:O	1.95	0.67
2:M:156:GLY:HA3	9:M:2199:HOH:O	1.95	0.67
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.76	0.67
3:N:178:LEU:HD12	9:N:2234:HOH:O	1.94	0.67
2:M:204:GLN:NE2	2:M:222:MET:HA	2.10	0.66
3:D:808:THR:HB	3:D:809:PRO:HD3	1.76	0.66
2:M:1108:PRO:HD3	9:M:2055:HOH:O	1.95	0.66
1:L:123:MET:C	1:L:125:PRO:HD3	2.15	0.66
3:D:1094:LEU:O	3:D:1098:LEU:HD13	1.95	0.66
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:64:LEU:HD13	2:M:359:MET:HG3	1.76	0.66
3:D:1410:GLU:OE2	3:D:1414:PRO:HG3	1.95	0.66
3:N:188:GLY:N	3:N:199:LEU:HD23	2.11	0.66
2:C:859:PRO:O	2:C:867:VAL:HG22	1.95	0.66
2:C:310:LEU:HD12	9:C:1562:HOH:O	1.94	0.66
2:C:397:GLU:HB2	9:C:1153:HOH:O	1.94	0.66
3:N:1321:ALA:O	3:N:1339:LYS:HE3	1.96	0.66
1:B:169:ALA:HB1	1:B:171:PHE:CD2	2.30	0.66
2:M:1096:ALA:HB1	9:N:1592:HOH:O	1.94	0.66
3:D:609:GLY:O	3:D:617:ASN:ND2	2.28	0.66
2:M:909:ALA:HB1	9:M:1825:HOH:O	1.94	0.66
4:E:48:MET:O	4:E:52:GLU:HA	1.96	0.66
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.08	0.66
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.25	0.66
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.95	0.66
3:D:965:GLU:HB2	9:D:1794:HOH:O	1.96	0.66
5:P:303:ARG:HB2	9:P:433:HOH:O	1.94	0.66
3:D:116:LEU:HD22	3:D:118:LEU:HD11	1.76	0.66
3:D:805:GLU:HG2	9:D:1726:HOH:O	1.95	0.66
2:M:1:MET:HE2	9:M:2228:HOH:O	1.94	0.66
3:N:185:VAL:HG22	3:N:191:LEU:HD21	1.76	0.66
1:B:78:ILE:HA	9:B:438:HOH:O	1.95	0.66
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.60	0.66
2:C:693:GLU:HA	2:C:696:LYS:HG3	1.76	0.66
3:N:569:ASN:OD1	5:P:80:PRO:HB3	1.96	0.66
2:C:431:HIS:CD2	2:C:433:THR:H	2.13	0.66
3:N:82:LYS:HE2	9:N:1551:HOH:O	1.95	0.66
3:D:817:GLU:O	3:D:821:VAL:HG23	1.94	0.66
5:F:336:GLU:HA	9:F:469:HOH:O	1.94	0.66
5:P:234:LYS:HG2	9:P:475:HOH:O	1.95	0.66
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.25	0.66
2:M:1083:GLU:HG2	9:M:1724:HOH:O	1.96	0.66
3:N:126:VAL:HG21	9:N:2194:HOH:O	1.94	0.66
3:N:161:LEU:O	3:N:449:SER:HB3	1.95	0.66
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.78	0.66
5:P:335:ASP:OD1	5:P:338:LEU:HB2	1.95	0.66
1:L:76:VAL:HG23	9:L:1317:HOH:O	1.95	0.66
2:M:21:ILE:HD12	2:M:21:ILE:H	1.60	0.66
2:M:1033:GLY:O	2:M:1036:GLU:HG2	1.96	0.66
1:B:18:ARG:O	1:B:207:PRO:HD3	1.96	0.66
1:A:180:GLN:HB3	9:A:352:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:PRO:HG3	9:B:480:HOH:O	1.95	0.66
1:B:199:ILE:HD11	1:B:211:LEU:HD13	1.76	0.66
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.77	0.66
3:N:133:ILE:HD11	3:N:155:ASP:OD1	1.96	0.66
3:D:100:ALA:HB2	3:D:513:ILE:CD1	2.24	0.66
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.77	0.66
3:D:1498:ALA:HB2	4:E:88:GLU:OE1	1.96	0.66
2:C:498:GLN:O	2:C:501:THR:HG23	1.96	0.66
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.31	0.66
2:C:15:LEU:CD2	2:C:583:LEU:HD11	2.26	0.66
3:N:924:MET:O	3:N:927:THR:HB	1.96	0.66
2:M:768:THR:HB	2:M:771:GLU:HB3	1.77	0.66
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.77	0.66
2:M:42:VAL:HG12	2:M:43:GLY:H	1.59	0.66
2:C:1019:GLN:HE22	3:D:621:LYS:HA	1.61	0.66
2:C:1018:GLN:OE1	2:C:1060:ILE:HD11	1.95	0.66
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.77	0.66
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.77	0.66
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.78	0.66
3:N:704:ARG:HG2	3:N:705:ALA:H	1.59	0.66
2:C:713:ARG:HH22	3:D:531:ASP:HB3	1.60	0.66
2:M:781:LYS:HG3	9:M:1700:HOH:O	1.95	0.66
3:N:1087:ARG:HB3	9:N:1678:HOH:O	1.95	0.66
2:C:198:ARG:NE	2:C:228:ALA:HA	2.11	0.66
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.76	0.66
2:M:1014:SER:HB3	2:M:1017:THR:O	1.96	0.66
4:O:17:TYR:O	4:O:21:VAL:HG23	1.95	0.66
2:M:627:ARG:HA	9:M:1936:HOH:O	1.95	0.66
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.30	0.66
2:M:976:ASP:CB	2:M:979:THR:HG22	2.25	0.66
2:M:350:ARG:HA	2:M:353:ARG:HD2	1.78	0.66
2:C:864:GLY:O	2:C:866:PRO:HD3	1.96	0.66
5:P:292:ALA:HB1	5:P:299:TRP:O	1.96	0.66
2:C:289:THR:HB	9:C:1392:HOH:O	1.96	0.66
1:K:206:THR:HG22	1:K:209:GLU:H	1.61	0.66
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.26	0.66
3:D:679:ARG:HB2	3:D:682:ASP:OD2	1.95	0.66
5:F:321:ILE:HB	5:F:327:SER:OG	1.96	0.66
3:D:1044:LEU:HD23	9:D:1976:HOH:O	1.95	0.66
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.61	0.65
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:295:MET:HG2	5:P:299:TRP:CE2	2.31	0.65
1:L:158:ILE:HG22	1:L:160:ASP:H	1.60	0.65
2:C:439:CYS:HB3	9:C:1185:HOH:O	1.96	0.65
3:D:1141:GLU:CG	3:D:1168:MET:HE1	2.26	0.65
2:C:1015:LEU:HD11	9:F:451:HOH:O	1.95	0.65
5:P:407:LYS:HG2	9:P:600:HOH:O	1.95	0.65
3:D:403:PHE:CE1	3:D:407:VAL:HG23	2.31	0.65
3:N:139:GLY:HA3	9:N:2226:HOH:O	1.95	0.65
2:M:312:ALA:HA	9:M:1882:HOH:O	1.96	0.65
5:F:273:ARG:HD3	9:F:735:HOH:O	1.96	0.65
3:N:154:THR:HG23	3:N:157:GLU:H	1.60	0.65
2:M:368:THR:HB	2:M:369:PRO:HD3	1.77	0.65
3:N:493:ARG:HH11	3:N:1390:LEU:C	1.99	0.65
5:P:151:LEU:O	5:P:155:THR:HB	1.96	0.65
5:P:261:PRO:HB3	9:P:570:HOH:O	1.94	0.65
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.78	0.65
2:M:1081:VAL:HG21	2:M:1111:ILE:HG22	1.78	0.65
3:N:1035:ILE:HA	3:N:1038:LEU:CD1	2.26	0.65
5:F:415:THR:HG21	9:F:598:HOH:O	1.95	0.65
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.78	0.65
3:D:611:GLN:NE2	3:D:1463:LYS:CE	2.53	0.65
1:L:58:ILE:HB	1:L:61:VAL:HB	1.77	0.65
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.22	0.65
5:F:125:ASP:HA	9:F:652:HOH:O	1.97	0.65
3:N:59:ALA:HB1	9:N:1806:HOH:O	1.96	0.65
3:N:65:ARG:HG3	3:N:66:GLN:H	1.62	0.65
3:D:128:TYR:HE1	3:D:461:ILE:HG13	1.61	0.65
3:D:1211:MET:HB3	9:D:2053:HOH:O	1.95	0.65
1:L:206:THR:HG22	1:L:209:GLU:HB2	1.78	0.65
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.78	0.65
2:M:528:GLU:HB3	9:M:1626:HOH:O	1.97	0.65
3:D:611:GLN:HE21	3:D:1439:SER:HB3	1.61	0.65
2:C:237:ARG:HD2	9:C:1406:HOH:O	1.97	0.65
1:L:158:ILE:HD11	1:L:166:PRO:CA	2.25	0.65
2:M:571:LEU:CD2	2:M:700:TYR:HA	2.26	0.65
3:N:1301:LYS:HG2	9:N:2327:HOH:O	1.95	0.65
1:L:176:ARG:HD3	3:N:884:ARG:NH2	2.11	0.65
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.78	0.65
3:D:1502:ALA:HB1	9:D:2407:HOH:O	1.95	0.65
1:B:59:GLU:HG3	1:B:139:ASN:ND2	2.12	0.65
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:583:ASP:OD2	3:D:604:THR:HG21	1.96	0.65
2:M:422:ARG:HA	9:M:1913:HOH:O	1.97	0.65
1:L:46:SER:O	1:L:148:VAL:HB	1.96	0.65
2:C:292:ARG:HD2	2:C:299:LYS:HG2	1.78	0.65
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.31	0.65
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.96	0.65
2:C:1030:GLN:NE2	3:D:628:ARG:HB3	2.11	0.65
5:P:392:VAL:HG21	9:P:614:HOH:O	1.97	0.65
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.95	0.65
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.60	0.65
2:C:511:GLU:O	2:C:526:PRO:HD3	1.95	0.65
1:L:109:VAL:HG12	9:L:1850:HOH:O	1.96	0.65
2:M:289:THR:HB	9:M:1685:HOH:O	1.97	0.65
2:C:1118:LYS:HG3	9:C:1317:HOH:O	1.95	0.65
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.30	0.65
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.96	0.65
1:A:206:THR:CG2	1:A:209:GLU:H	2.10	0.65
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.77	0.65
2:M:724:ARG:O	2:M:734:LEU:HD21	1.97	0.65
1:L:12:THR:HB	9:L:1867:HOH:O	1.96	0.65
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.79	0.65
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.77	0.65
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.77	0.65
3:N:614:PHE:HD1	3:N:615:ARG:N	1.94	0.65
2:C:442:GLU:HG2	2:C:454:SER:OG	1.96	0.65
3:D:493:ARG:NH1	3:D:1390:LEU:HB3	2.12	0.65
2:C:1103:ASP:HB2	2:C:1107:ASN:O	1.96	0.65
3:N:664:LYS:HE2	9:N:2324:HOH:O	1.96	0.65
1:K:16:GLN:HB3	9:K:1964:HOH:O	1.97	0.65
3:D:833:GLU:HG2	9:D:1935:HOH:O	1.97	0.65
1:B:179:PHE:HB2	1:B:195:LEU:HD11	1.77	0.65
2:M:607:ASP:HB3	2:M:609:ASN:H	1.62	0.65
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.78	0.65
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.25	0.65
3:N:508:ARG:CG	3:N:509:PRO:HD2	2.26	0.65
2:M:755:LEU:HB2	9:M:1781:HOH:O	1.97	0.65
3:N:760:ARG:HH21	4:O:61:VAL:HG12	1.62	0.65
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.31	0.65
5:P:274:THR:O	5:P:278:LEU:HG	1.97	0.65
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.79	0.65
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1264:GLU:HG2	3:D:1425:THR:HG22	1.78	0.65
2:C:610:ARG:HB2	9:C:1140:HOH:O	1.97	0.65
5:F:166:LEU:O	5:F:171:LYS:HB2	1.96	0.65
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.27	0.65
3:N:1166:LEU:HD12	3:N:1171:VAL:HG22	1.79	0.65
2:C:627:ARG:HG3	2:C:628:PHE:H	1.61	0.65
3:D:1441:GLN:HB3	9:D:1557:HOH:O	1.97	0.65
1:B:2:LEU:HD12	1:B:3:ASP:N	2.11	0.65
2:M:916:GLU:HG2	9:M:2028:HOH:O	1.96	0.65
3:N:611:GLN:HG2	3:N:619:LEU:HD11	1.77	0.64
1:L:61:VAL:N	1:L:137:ARG:HH22	1.95	0.64
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.78	0.64
1:L:54:THR:HG22	9:L:3428:HOH:O	1.96	0.64
2:C:905:ILE:HB	9:C:1738:HOH:O	1.96	0.64
3:D:812:ALA:HB1	9:D:1779:HOH:O	1.98	0.64
2:M:838:LYS:HB2	2:M:848:VAL:HG22	1.78	0.64
5:F:187:LEU:O	5:F:187:LEU:HD23	1.97	0.64
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.77	0.64
2:M:54:ILE:HD11	2:M:356:ARG:HG2	1.79	0.64
3:N:445:ARG:HB3	9:N:2112:HOH:O	1.98	0.64
3:N:817:GLU:O	3:N:821:VAL:HG23	1.96	0.64
3:D:1209:LEU:HD23	3:D:1211:MET:SD	2.37	0.64
2:M:73:LEU:HD22	2:M:118:ILE:HD11	1.79	0.64
2:M:429:ASP:HB3	9:M:2136:HOH:O	1.96	0.64
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.26	0.64
2:M:100:LEU:HD23	2:M:368:THR:HA	1.78	0.64
3:N:175:VAL:HG11	3:N:193:PRO:HB2	1.80	0.64
1:A:20:TYR:HB3	9:A:413:HOH:O	1.97	0.64
5:F:401:GLU:O	5:F:405:LEU:HB2	1.97	0.64
3:D:1237:THR:HG22	9:D:2068:HOH:O	1.98	0.64
3:N:722:GLU:HA	9:N:1930:HOH:O	1.97	0.64
3:N:141:ILE:HD12	9:N:2046:HOH:O	1.97	0.64
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.80	0.64
3:D:534:ARG:HG2	9:F:611:HOH:O	1.97	0.64
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.78	0.64
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.78	0.64
2:M:811:PRO:HB2	2:M:813:VAL:HG13	1.78	0.64
3:N:1013:GLU:HB3	9:N:2351:HOH:O	1.97	0.64
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.78	0.64
3:D:55:ASP:HB3	3:D:82:LYS:HE2	1.79	0.64
1:B:124:ASN:OD1	1:B:127:LEU:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:976:ASP:CB	2:C:979:THR:HG22	2.27	0.64
2:C:645:VAL:HA	9:C:1531:HOH:O	1.96	0.64
3:D:149:LYS:HA	9:D:1632:HOH:O	1.98	0.64
5:F:349:LEU:HB2	9:F:433:HOH:O	1.98	0.64
1:B:226:SER:O	1:B:228:PRO:HD3	1.97	0.64
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.80	0.64
1:L:109:VAL:HG21	1:L:138:LEU:CD1	2.18	0.64
3:N:1209:LEU:HD12	3:N:1219:GLU:OE1	1.97	0.64
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.32	0.64
2:C:890:LEU:HD23	9:C:1640:HOH:O	1.97	0.64
3:N:565:ILE:HB	5:P:84:TYR:HD2	1.63	0.64
4:O:54:LEU:HG	4:O:58:PRO:CG	2.26	0.64
5:P:112:ALA:O	5:P:116:LEU:HG	1.98	0.64
5:P:315:VAL:HA	9:P:479:HOH:O	1.97	0.64
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.32	0.64
2:C:691:SER:HB2	2:C:858:MET:SD	2.38	0.64
1:L:9:PRO:HD3	9:L:1857:HOH:O	1.98	0.64
1:L:52:ALA:HB1	9:L:1023:HOH:O	1.98	0.64
3:D:124:GLU:O	3:D:128:TYR:HB2	1.97	0.64
3:N:799:LYS:HB3	3:N:826:PRO:HG2	1.77	0.64
3:N:702:LEU:HD13	3:N:716:PHE:CD1	2.33	0.64
1:K:41:ARG:HH22	2:M:866:PRO:HG3	1.63	0.64
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.78	0.64
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.80	0.64
4:O:67:GLU:OE1	4:O:73:LEU:HD11	1.97	0.64
3:D:583:ASP:HB2	3:D:604:THR:OG1	1.97	0.64
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.27	0.64
2:C:265:ARG:HG2	2:C:266:ARG:N	2.11	0.64
2:C:79:PRO:HA	9:C:1251:HOH:O	1.97	0.64
2:M:720:GLU:HA	2:M:759:THR:O	1.98	0.64
2:C:57:GLU:HB2	9:C:1254:HOH:O	1.97	0.64
2:C:84:ARG:HH21	2:C:128:ILE:HD11	1.63	0.64
3:N:426:LYS:HD2	9:N:2209:HOH:O	1.96	0.64
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.80	0.64
3:D:614:PHE:CZ	5:F:326:ASP:HB3	2.33	0.64
3:D:188:GLY:N	3:D:199:LEU:HD23	2.13	0.64
2:C:671:ASN:ND2	2:C:671:ASN:H	1.94	0.64
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.28	0.64
2:M:603:VAL:HG22	2:M:613:VAL:HG12	1.79	0.64
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.63	0.64
4:O:88:GLU:HB3	9:O:2455:HOH:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:545:ASN:OD1	2:M:905:ILE:HG12	1.96	0.64
2:C:573:ARG:HB2	9:C:1310:HOH:O	1.97	0.64
5:F:327:SER:HA	9:F:456:HOH:O	1.96	0.64
3:D:891:GLU:HG2	9:D:2400:HOH:O	1.96	0.64
3:D:564:GLU:HA	3:D:567:ILE:HD13	1.80	0.64
3:N:148:GLU:HG2	3:N:151:GLN:NE2	2.11	0.64
3:N:546:ARG:HA	9:N:1614:HOH:O	1.98	0.64
2:C:41:ASN:N	2:C:41:ASN:HD22	1.91	0.64
3:N:679:ARG:HB2	3:N:682:ASP:OD2	1.98	0.64
3:N:1065:LEU:HG	3:N:1070:TYR:HD2	1.63	0.64
2:M:118:ILE:HB	9:M:2032:HOH:O	1.98	0.64
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.63	0.64
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.80	0.64
2:M:331:ARG:CZ	2:M:427:VAL:HG12	2.28	0.64
3:D:175:VAL:HG11	3:D:193:PRO:HB2	1.80	0.64
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.23	0.64
3:D:148:GLU:HG2	3:D:151:GLN:NE2	2.12	0.64
3:N:153:LEU:HD11	3:N:158:TYR:N	2.13	0.64
2:C:773:LEU:HB2	9:C:1139:HOH:O	1.96	0.64
2:C:314:THR:HG23	9:C:1562:HOH:O	1.98	0.64
1:K:201:THR:HG22	1:K:203:GLY:H	1.63	0.64
1:K:197:LEU:HD23	1:K:197:LEU:H	1.62	0.64
3:N:595:GLY:HA2	9:N:2178:HOH:O	1.98	0.64
1:L:61:VAL:HG23	1:L:137:ARG:NH2	2.13	0.64
3:N:1023:MET:HB2	3:N:1029:ARG:O	1.98	0.64
2:C:472:ARG:HB3	2:C:480:THR:O	1.97	0.64
3:N:615:ARG:HB3	9:N:2387:HOH:O	1.97	0.64
2:C:144:PRO:O	2:C:276:LYS:HD3	1.96	0.64
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.27	0.64
3:D:154:THR:HG23	3:D:157:GLU:H	1.63	0.64
4:O:59:ASN:HB3	4:O:62:THR:OG1	1.98	0.64
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.33	0.64
2:M:19:THR:O	2:M:23:VAL:HG23	1.97	0.64
3:N:610:LYS:O	3:N:611:GLN:HG3	1.98	0.63
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.33	0.63
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.80	0.63
3:N:189:GLN:HG3	3:N:190:GLU:N	2.13	0.63
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.80	0.63
2:C:1014:SER:O	2:C:1018:GLN:HG3	1.97	0.63
3:D:52:PRO:HB2	3:D:80:VAL:HG13	1.79	0.63
3:N:131:LYS:HE2	3:N:456:MET:HE1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:569:ASN:HD21	5:P:210:LEU:HD22	1.62	0.63
3:D:558:LEU:HD13	5:F:145:PRO:CB	2.28	0.63
2:C:439:CYS:SG	2:C:441:VAL:HB	2.39	0.63
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.62	0.63
1:B:61:VAL:N	1:B:137:ARG:HH22	1.96	0.63
5:P:166:LEU:HD11	9:P:491:HOH:O	1.98	0.63
9:K:1622:HOH:O	2:M:640:ARG:HB2	1.98	0.63
2:C:200:LEU:HB2	9:C:1462:HOH:O	1.97	0.63
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	1.79	0.63
3:N:72:VAL:HG23	3:N:78:VAL:H	1.63	0.63
3:N:147:VAL:HA	9:N:1777:HOH:O	1.98	0.63
2:M:693:GLU:HA	2:M:696:LYS:HG3	1.80	0.63
1:K:120:VAL:HG13	9:K:2485:HOH:O	1.99	0.63
3:D:764:LEU:HD23	3:D:767:HIS:CE1	2.33	0.63
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.63	0.63
3:D:1439:SER:HB3	3:D:1463:LYS:HE2	1.79	0.63
2:C:18:LEU:HD21	2:C:542:VAL:HG11	1.80	0.63
2:M:968:LEU:HB3	9:M:2164:HOH:O	1.98	0.63
2:M:437:ARG:HG2	2:M:467:ILE:O	1.97	0.63
3:N:614:PHE:C	3:N:615:ARG:O	2.33	0.63
5:P:372:ARG:HD2	5:P:372:ARG:N	2.12	0.63
1:K:177:VAL:HG12	9:K:1774:HOH:O	1.99	0.63
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.79	0.63
3:N:169:TYR:CG	3:N:195:VAL:HG11	2.34	0.63
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.80	0.63
3:N:720:LEU:H	3:N:720:LEU:HD12	1.63	0.63
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.80	0.63
3:D:1397:LYS:HE3	9:D:2203:HOH:O	1.98	0.63
3:D:614:PHE:HZ	5:F:326:ASP:HB3	1.63	0.63
1:L:138:LEU:HD23	1:L:140:MET:SD	2.37	0.63
1:A:191:ASP:O	1:A:192:LEU:HD23	1.99	0.63
2:C:358:ARG:HB3	2:C:371:LYS:O	1.98	0.63
5:F:132:ARG:O	5:F:136:LEU:HG	1.99	0.63
1:A:20:TYR:HE2	1:A:22:GLU:HG3	1.62	0.63
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.80	0.63
3:N:890:VAL:HG13	3:N:926:LYS:HG2	1.80	0.63
2:M:307:LEU:HG	2:M:311:PHE:HE2	1.62	0.63
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.98	0.63
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.80	0.63
5:F:115:LYS:HD2	5:F:173:TYR:CE2	2.33	0.63
4:O:34:GLY:HA2	9:O:3283:HOH:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:243:ARG:HG2	9:C:1218:HOH:O	1.99	0.63
4:O:60:ALA:O	4:O:63:TRP:HB2	1.97	0.63
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.80	0.63
3:D:799:LYS:N	3:D:826:PRO:HG2	2.12	0.63
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.79	0.63
1:L:72:LYS:HD2	9:L:2772:HOH:O	1.98	0.63
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.13	0.63
3:N:925:GLU:HB3	4:O:2:ALA:HB3	1.79	0.63
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.80	0.63
2:M:397:GLU:HB2	9:M:1672:HOH:O	1.97	0.63
2:M:820:ARG:HG3	9:M:1785:HOH:O	1.99	0.63
3:N:610:LYS:HG2	7:N:1527:MXP:H15A	1.80	0.63
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.64	0.63
1:L:182:GLU:O	1:L:194:LYS:HB3	1.98	0.63
4:E:54:LEU:HG	4:E:58:PRO:CG	2.27	0.63
3:D:1465:ASN:ND2	3:D:1470:ARG:HD3	2.12	0.63
2:C:185:LYS:HE2	2:C:190:LYS:HE2	1.80	0.63
3:D:1046:GLN:HG3	9:D:1606:HOH:O	1.98	0.63
5:P:401:GLU:O	5:P:405:LEU:HB2	1.99	0.63
2:C:660:ALA:HB1	2:C:667:ALA:O	1.98	0.63
3:D:65:ARG:HG3	3:D:66:GLN:H	1.64	0.63
1:B:61:VAL:HG23	1:B:137:ARG:NH2	2.13	0.63
3:N:1356:TYR:CD2	3:N:1363:LEU:HD23	2.33	0.63
2:M:265:ARG:HG2	2:M:266:ARG:N	2.14	0.63
3:N:403:PHE:CE1	3:N:407:VAL:HG23	2.34	0.63
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.81	0.63
5:F:88:ILE:HB	5:F:193:ARG:HH11	1.63	0.63
2:C:599:GLU:HB2	9:C:1216:HOH:O	1.99	0.63
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.29	0.63
2:C:659:PRO:HD3	9:C:1639:HOH:O	1.98	0.63
3:N:961:LYS:HA	9:N:2211:HOH:O	1.99	0.63
2:M:790:LEU:HG	9:M:1781:HOH:O	1.99	0.62
2:C:142:ARG:HH21	2:C:325:ILE:CD1	2.12	0.62
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.62
2:M:1103:ASP:HB2	2:M:1107:ASN:O	1.99	0.62
5:P:356:LYS:HB2	9:P:473:HOH:O	1.99	0.62
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.98	0.62
5:F:372:ARG:N	5:F:372:ARG:HD2	2.14	0.62
3:D:179:VAL:HG13	3:D:183:GLU:HB3	1.81	0.62
3:D:55:ASP:HB3	9:D:1577:HOH:O	1.99	0.62
2:C:367:LEU:O	2:C:372:LEU:HD13	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:276:LYS:O	2:M:280:LYS:HB2	1.99	0.62
3:N:188:GLY:HA2	9:N:1751:HOH:O	1.98	0.62
1:L:55:SER:OG	1:L:158:ILE:HD13	2.00	0.62
1:A:18:ARG:O	1:A:207:PRO:HD3	1.98	0.62
5:P:152:ASP:HA	9:P:502:HOH:O	1.98	0.62
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.62	0.62
3:D:1037:GLN:HG2	3:D:1042:ARG:HB3	1.81	0.62
2:M:676:ILE:O	2:M:676:ILE:HG23	1.99	0.62
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.81	0.62
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.34	0.62
1:B:182:GLU:O	1:B:194:LYS:HB3	1.98	0.62
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.34	0.62
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.81	0.62
3:D:1488:ASP:HA	9:E:110:HOH:O	1.99	0.62
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.80	0.62
2:M:166:PRO:HD3	2:M:265:ARG:HG3	1.79	0.62
4:E:45:ARG:HB2	4:E:46:PRO:HD2	1.80	0.62
2:C:162:ILE:O	2:C:164:PRO:HD3	1.99	0.62
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.81	0.62
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.79	0.62
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.29	0.62
4:E:95:VAL:HG12	4:E:95:VAL:O	1.99	0.62
2:M:709:GLU:HG3	2:M:824:ARG:HG2	1.82	0.62
4:O:83:ASP:O	4:O:86:GLN:HG2	1.99	0.62
3:N:538:SER:HB3	9:P:565:HOH:O	1.97	0.62
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.19	0.62
2:C:165:LEU:O	2:C:265:ARG:HD2	1.99	0.62
3:N:40:GLU:N	9:N:1836:HOH:O	2.31	0.62
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.12	0.62
1:L:52:ALA:HB2	1:L:170:VAL:O	1.99	0.62
1:L:18:ARG:O	1:L:207:PRO:HD3	1.99	0.62
2:C:1005:MET:O	2:C:1005:MET:HG3	1.99	0.62
1:L:59:GLU:HG3	1:L:139:ASN:ND2	2.14	0.62
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.80	0.62
2:C:395:LYS:HE2	2:C:403:SER:CB	2.20	0.62
3:D:187:LYS:HG3	3:D:199:LEU:HD22	1.81	0.62
3:D:47:GLU:HG2	3:D:53:ILE:HG22	1.80	0.62
2:M:110:GLU:CB	2:M:369:PRO:HG3	2.30	0.62
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.15	0.62
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.81	0.62
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:LYS:CE	2:C:846:LYS:HE2	2.29	0.62
5:P:375:LEU:HG	5:P:376:ILE:HG13	1.82	0.62
3:N:185:VAL:HG23	3:N:202:VAL:C	2.18	0.62
3:D:865:THR:HG22	9:D:1855:HOH:O	1.99	0.62
2:C:1001:VAL:HG13	9:C:1323:HOH:O	1.98	0.62
3:N:583:ASP:OD2	3:N:604:THR:HG21	1.99	0.62
3:D:165:LYS:HB2	3:D:397:LYS:HB3	1.81	0.62
3:N:510:GLU:HB3	9:N:2186:HOH:O	1.99	0.62
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.80	0.62
2:M:741:GLY:HA3	9:M:1665:HOH:O	1.99	0.62
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.81	0.62
3:N:864:VAL:HG12	3:N:865:THR:H	1.65	0.62
2:M:472:ARG:HB3	2:M:480:THR:O	2.00	0.62
2:M:480:THR:HG22	2:M:481:ASP:H	1.64	0.62
3:N:775:GLY:HA2	9:N:2264:HOH:O	2.00	0.62
2:C:971:LYS:HA	2:C:988:VAL:HA	1.82	0.62
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.82	0.62
3:N:1189:ARG:HH11	3:N:1203:LYS:HB2	1.64	0.62
5:P:172:ARG:O	5:P:176:ILE:HD13	1.99	0.62
1:B:79:ILE:HD12	9:B:474:HOH:O	1.98	0.62
3:D:834:THR:HB	3:D:838:ARG:HB2	1.81	0.62
3:D:1467:ILE:HG23	7:D:1527:MXP:H16A	1.81	0.62
2:M:146:VAL:HG11	2:M:306:THR:HG22	1.81	0.62
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.82	0.62
2:M:1002:GLU:HG2	2:M:1003:ASP:N	2.14	0.62
2:C:877:PRO:HG2	3:D:1023:MET:CE	2.27	0.62
2:M:431:HIS:HD2	2:M:433:THR:H	1.45	0.62
3:D:493:ARG:HH11	3:D:1390:LEU:HB3	1.63	0.62
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.29	0.62
2:M:80:GLN:O	2:M:83:CYS:HB2	1.99	0.62
3:D:1356:TYR:HD2	3:D:1363:LEU:HD23	1.65	0.62
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.80	0.62
3:D:877:PRO:O	3:D:880:ILE:HG22	1.99	0.62
1:L:223:THR:HG22	9:L:4161:HOH:O	1.98	0.62
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.27	0.62
4:O:30:LEU:O	4:O:35:PHE:HA	1.99	0.62
2:C:244:PRO:HG3	9:C:1642:HOH:O	1.98	0.62
9:D:1795:HOH:O	4:E:50:THR:HB	2.00	0.62
3:D:491:LYS:HD3	9:D:1938:HOH:O	1.99	0.62
3:N:723:GLY:HA3	9:N:1625:HOH:O	2.00	0.62
3:D:1321:ALA:O	3:D:1339:LYS:HE3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:557:ARG:NH1	2:M:879:ARG:HG2	2.15	0.62
3:D:49:ILE:HG21	9:D:2241:HOH:O	2.00	0.62
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.29	0.62
3:D:1111:ASP:HB3	3:D:1203:LYS:HG3	1.82	0.62
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.81	0.62
2:M:559:LEU:HD23	2:M:560:MET:N	2.14	0.62
2:M:567:GLN:HB2	2:M:997:LEU:HD22	1.80	0.62
5:F:396:ARG:HB2	9:F:496:HOH:O	1.98	0.62
2:M:86:LYS:CD	2:M:813:VAL:HG12	2.30	0.62
3:D:1056:PRO:HD3	9:D:1650:HOH:O	1.99	0.62
2:M:498:GLN:O	2:M:501:THR:HG23	2.00	0.62
2:M:715:THR:HG22	2:M:717:LEU:HG	1.82	0.62
3:N:1192:LEU:HD13	3:N:1345:GLU:HG2	1.81	0.62
3:N:1013:GLU:HB2	9:N:1747:HOH:O	2.00	0.62
3:N:394:LEU:HD21	9:N:2081:HOH:O	2.00	0.62
3:N:1293:PHE:CZ	3:N:1302:GLU:HB3	2.34	0.62
2:C:274:ARG:HG2	9:C:1142:HOH:O	1.99	0.62
2:C:307:LEU:HG	2:C:311:PHE:CE2	2.35	0.62
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.15	0.62
3:D:428:LYS:HE2	9:D:1881:HOH:O	2.00	0.62
2:C:902:ILE:O	2:C:904:PRO:HD3	2.00	0.61
1:L:169:ALA:HB1	1:L:171:PHE:CD2	2.35	0.61
2:C:141:HIS:CB	2:C:418:LEU:HG	2.29	0.61
3:N:80:VAL:HA	9:N:2248:HOH:O	1.99	0.61
3:N:717:GLN:HG2	9:N:1629:HOH:O	2.00	0.61
3:D:107:ASP:O	3:D:108:VAL:C	2.37	0.61
2:C:738:ASP:CB	2:C:744:ARG:HB3	2.29	0.61
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.81	0.61
1:L:128:HIS:HE1	1:L:131:THR:HG23	1.64	0.61
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.30	0.61
3:N:683:ILE:HG22	9:N:1566:HOH:O	2.00	0.61
2:C:137:VAL:HG22	2:C:391:LEU:O	2.00	0.61
3:D:1269:LYS:HD3	9:D:2029:HOH:O	1.99	0.61
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.65	0.61
2:C:420:ARG:HA	9:C:1293:HOH:O	1.98	0.61
3:N:611:GLN:CG	3:N:619:LEU:HG	2.29	0.61
3:D:400:VAL:HG22	3:D:443:VAL:CG2	2.29	0.61
4:E:30:LEU:O	4:E:35:PHE:HA	2.00	0.61
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.64	0.61
3:N:1274:ILE:HA	9:N:1761:HOH:O	2.00	0.61
5:P:88:ILE:HG21	5:P:193:ARG:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:613:ARG:HG3	3:D:1441:GLN:HB2	1.82	0.61
2:M:864:GLY:O	2:M:866:PRO:HD3	2.00	0.61
4:O:86:GLN:O	4:O:90:GLU:HG3	2.00	0.61
2:C:528:GLU:HG2	9:C:1477:HOH:O	1.99	0.61
3:N:491:LYS:HD3	9:N:2284:HOH:O	1.98	0.61
3:N:1304:LYS:HA	9:N:1838:HOH:O	1.99	0.61
2:C:63:GLY:HA3	9:C:1168:HOH:O	1.98	0.61
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.00	0.61
3:D:955:VAL:HA	9:D:2261:HOH:O	1.98	0.61
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.29	0.61
2:C:512:ARG:HB2	9:C:1201:HOH:O	2.00	0.61
2:M:838:LYS:CE	2:M:846:LYS:HE2	2.29	0.61
5:P:284:ARG:HD2	9:P:504:HOH:O	1.99	0.61
2:M:926:PHE:CE1	2:M:929:ARG:HD3	2.35	0.61
2:M:274:ARG:HD2	2:M:285:LEU:O	1.99	0.61
2:C:151:ASP:OD2	2:C:159:ILE:HG23	2.00	0.61
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.07	0.61
3:D:1097:LYS:HE3	9:D:2031:HOH:O	2.01	0.61
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.82	0.61
2:C:305:PRO:HA	2:C:308:ARG:HD2	1.82	0.61
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.00	0.61
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.81	0.61
9:N:1961:HOH:O	5:P:168:LYS:HG2	2.01	0.61
9:N:2314:HOH:O	5:P:376:ILE:HD11	1.99	0.61
3:N:702:LEU:HD13	3:N:716:PHE:HD1	1.64	0.61
3:D:1430:SER:HA	9:D:1920:HOH:O	1.99	0.61
2:M:239:PHE:HB3	9:M:1968:HOH:O	2.00	0.61
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.82	0.61
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.83	0.61
9:D:1675:HOH:O	5:F:337:HIS:HB3	2.01	0.61
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.82	0.61
2:M:358:ARG:HB3	2:M:371:LYS:O	1.99	0.61
2:M:367:LEU:O	2:M:372:LEU:HD13	2.01	0.61
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.65	0.61
2:C:143:SER:HB2	2:C:276:LYS:NZ	2.14	0.61
3:D:847:ASP:O	3:D:851:LEU:HG	2.01	0.61
2:C:1056:LYS:NZ	3:D:749:VAL:O	2.33	0.61
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.82	0.61
5:F:361:LEU:HD23	5:F:362:SER:N	2.15	0.61
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.15	0.61
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1002:GLU:HG2	2:C:1003:ASP:N	2.14	0.61
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.82	0.61
5:F:230:LYS:HD3	9:F:439:HOH:O	1.99	0.61
1:A:125:PRO:HD2	9:A:394:HOH:O	2.00	0.61
2:C:6:PHE:CG	2:C:909:ALA:HA	2.35	0.61
3:N:119:SER:HB2	3:N:123:LEU:HD13	1.81	0.61
3:D:119:SER:HB2	3:D:123:LEU:HD13	1.81	0.61
2:M:57:GLU:HG3	9:M:1902:HOH:O	1.99	0.61
3:N:400:VAL:HG13	3:N:402:PRO:HD3	1.83	0.61
3:N:52:PRO:HG2	3:N:80:VAL:HG13	1.81	0.61
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.83	0.61
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.31	0.61
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.82	0.61
2:M:15:LEU:H	2:M:15:LEU:HD12	1.66	0.61
3:N:1377:LYS:HG3	3:N:1394:VAL:HG13	1.81	0.61
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.99	0.61
2:C:123:GLU:HB2	9:C:1197:HOH:O	2.00	0.61
1:B:108:GLU:HB2	9:B:409:HOH:O	2.00	0.61
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.82	0.61
2:C:108:ILE:HB	2:C:368:THR:HG1	1.65	0.61
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.65	0.61
3:D:204:LEU:HG	3:D:441:ARG:HH12	1.66	0.61
3:N:187:LYS:HG3	3:N:199:LEU:HD22	1.83	0.61
5:P:203:THR:HG22	5:P:204:GLY:N	2.16	0.61
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.30	0.61
3:N:674:ARG:HD3	9:N:1957:HOH:O	2.01	0.61
3:D:637:LEU:HD11	3:D:642:CYS:N	2.15	0.61
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.01	0.61
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.82	0.61
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.35	0.61
1:L:143:ARG:HD2	1:L:160:ASP:OD2	2.00	0.61
1:K:20:TYR:HD2	1:K:21:GLY:H	1.49	0.61
3:D:1384:PRO:HG3	3:D:1389:LEU:HA	1.83	0.61
1:L:83:LYS:HA	9:L:2646:HOH:O	2.00	0.61
3:N:799:LYS:H	3:N:826:PRO:HG2	1.66	0.61
3:N:500:ARG:HD2	9:N:2131:HOH:O	2.00	0.61
3:D:65:ARG:CG	3:D:66:GLN:H	2.13	0.61
2:M:479:VAL:HG11	2:M:532:MET:HE2	1.81	0.61
2:C:455:LEU:HD12	2:C:456:ALA:O	2.00	0.61
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.65	0.61
1:A:20:TYR:CD2	1:A:21:GLY:N	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:31:THR:HG23	3:N:45:PHE:CE2	2.35	0.61
1:L:176:ARG:HH21	3:N:850:LEU:HD13	1.65	0.61
3:N:1420:LEU:HD12	3:N:1421:LEU:N	2.14	0.61
3:D:206:ARG:HH11	5:F:97:GLU:HB3	1.65	0.61
2:M:307:LEU:HG	2:M:311:PHE:CE2	2.36	0.61
3:N:824:ASN:HB2	9:N:1978:HOH:O	2.01	0.61
2:C:919:ALA:HA	9:C:1166:HOH:O	2.00	0.61
3:D:486:ARG:HD3	3:D:489:ARG:HD3	1.81	0.61
3:D:169:TYR:CG	3:D:195:VAL:HG11	2.36	0.61
2:C:775:ARG:HG3	9:C:1214:HOH:O	1.99	0.61
2:C:73:LEU:HD23	2:C:94:LEU:HB2	1.83	0.61
3:D:400:VAL:HG13	3:D:402:PRO:HD3	1.83	0.61
2:M:41:ASN:ND2	2:M:41:ASN:H	1.94	0.61
2:C:325:ILE:HG12	9:C:1558:HOH:O	2.00	0.61
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.82	0.61
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.30	0.61
3:D:850:LEU:HD12	3:D:850:LEU:N	2.15	0.61
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.01	0.61
3:D:1394:VAL:HG11	9:D:2203:HOH:O	2.00	0.61
3:D:1127:GLU:HB2	9:D:1604:HOH:O	2.00	0.61
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.83	0.61
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.10	0.60
3:N:204:LEU:HD21	3:N:445:ARG:HH12	1.65	0.60
2:C:969:GLN:HA	9:D:1915:HOH:O	2.00	0.60
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.83	0.60
1:K:206:THR:CG2	1:K:209:GLU:H	2.14	0.60
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.36	0.60
1:K:221:HIS:HA	1:K:224:TYR:HD2	1.64	0.60
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.35	0.60
2:C:926:PHE:CE1	2:C:929:ARG:HD3	2.36	0.60
3:D:631:ILE:HG12	3:D:743:ASP:O	2.00	0.60
3:D:471:GLU:HG3	9:D:1589:HOH:O	2.01	0.60
1:B:90:LEU:HD23	9:B:496:HOH:O	1.99	0.60
2:C:1118:LYS:HG2	3:D:23:TYR:CE1	2.36	0.60
3:N:131:LYS:HE3	3:N:568:ARG:CB	2.31	0.60
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.82	0.60
2:C:331:ARG:HB2	9:C:1737:HOH:O	1.99	0.60
3:N:1291:SER:HB2	3:N:1293:PHE:CE1	2.35	0.60
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.82	0.60
2:C:1067:TYR:HE1	3:D:655:PRO:HG3	1.65	0.60
1:L:2:LEU:HD12	1:L:3:ASP:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:95:THR:HG21	9:P:531:HOH:O	2.01	0.60
1:K:42:ARG:NH2	2:M:857:ASP:HB3	2.15	0.60
2:M:341:THR:O	2:M:345:ARG:HG3	2.00	0.60
3:N:509:PRO:HB2	9:N:1664:HOH:O	2.00	0.60
2:C:193:LEU:HD21	9:C:1526:HOH:O	2.02	0.60
1:B:206:THR:HG22	1:B:209:GLU:H	1.66	0.60
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.36	0.60
3:D:728:LEU:HD22	3:D:745:MET:SD	2.42	0.60
1:K:157:GLY:HA3	9:K:2579:HOH:O	2.01	0.60
1:B:106:PRO:HG3	1:B:134:GLU:HG2	1.82	0.60
3:N:27:GLU:HB2	9:N:2072:HOH:O	2.00	0.60
3:D:507:ASN:HA	9:D:2352:HOH:O	2.01	0.60
3:D:86:ARG:O	3:D:522:PRO:HD2	2.01	0.60
3:N:566:ILE:HG23	5:P:217:ASN:HD22	1.66	0.60
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.31	0.60
3:N:107:ASP:O	3:N:108:VAL:C	2.39	0.60
1:K:213:GLN:O	1:K:217:ILE:HG13	2.02	0.60
3:D:829:VAL:H	3:D:835:SER:HB2	1.66	0.60
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.84	0.60
3:N:95:LEU:HA	3:N:551:ASN:ND2	2.16	0.60
2:M:811:PRO:HG2	9:M:1891:HOH:O	2.00	0.60
3:D:559:ALA:HA	9:F:646:HOH:O	2.01	0.60
3:D:1299:PHE:HB2	9:D:2455:HOH:O	2.00	0.60
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.83	0.60
3:N:80:VAL:HG12	3:N:81:THR:O	2.02	0.60
2:C:720:GLU:HA	2:C:759:THR:O	2.02	0.60
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.83	0.60
3:D:29:PRO:HB3	3:D:545:ARG:HG2	1.84	0.60
2:M:971:LYS:HA	2:M:988:VAL:HA	1.84	0.60
3:D:569:ASN:HB3	5:F:214:GLN:HE21	1.65	0.60
3:N:799:LYS:N	3:N:826:PRO:HG2	2.16	0.60
2:M:747:ALA:O	2:M:799:ILE:HA	2.01	0.60
5:P:209:PHE:CE2	5:P:213:ILE:HD11	2.37	0.60
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.01	0.60
9:K:3509:HOH:O	1:L:155:LYS:HE2	2.00	0.60
2:M:890:LEU:CA	2:M:914:ILE:HD11	2.31	0.60
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.36	0.60
4:O:54:LEU:CD2	4:O:63:TRP:HE1	2.14	0.60
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.83	0.60
5:F:369:LEU:HB2	9:F:426:HOH:O	2.02	0.60
2:M:518:LYS:HA	9:M:1901:HOH:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.66	0.60
2:C:132:ALA:HB1	2:C:632:ASN:ND2	2.16	0.60
2:C:93:PRO:HG3	2:C:117:HIS:CE1	2.37	0.60
5:P:325:LYS:HB2	9:P:652:HOH:O	2.01	0.60
2:C:571:LEU:HD21	2:C:700:TYR:HA	1.82	0.60
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.84	0.60
2:M:218:VAL:HG22	2:M:221:LEU:HD23	1.84	0.60
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.36	0.60
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.37	0.60
5:F:132:ARG:HD2	9:F:492:HOH:O	2.02	0.60
2:C:169:GLY:HA3	9:C:1253:HOH:O	2.01	0.60
1:K:18:ARG:HD2	1:K:123:MET:HE1	1.84	0.60
2:C:559:LEU:HD23	2:C:560:MET:N	2.17	0.60
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.82	0.60
3:N:142:LEU:HD11	9:N:2326:HOH:O	2.01	0.60
5:F:375:LEU:HG	5:F:376:ILE:HG13	1.83	0.60
3:N:583:ASP:OD1	3:N:586:ARG:HG3	2.01	0.60
3:N:647:ARG:HB3	9:N:2056:HOH:O	1.99	0.60
2:M:1104:GLU:HG3	9:M:1982:HOH:O	2.01	0.60
3:D:984:THR:HG22	3:D:987:GLU:H	1.66	0.60
3:N:439:LEU:HB3	9:N:2015:HOH:O	1.99	0.60
1:L:5:LYS:O	1:L:8:ALA:HB2	2.01	0.60
1:L:7:LYS:O	1:L:7:LYS:HG3	2.02	0.60
5:F:151:LEU:HB3	9:F:614:HOH:O	2.00	0.60
1:B:175:ARG:O	1:B:176:ARG:HG3	2.01	0.60
2:C:818:GLY:N	5:F:309:LYS:HE2	2.17	0.60
3:N:961:LYS:HB3	9:N:2007:HOH:O	2.00	0.60
2:M:565:GLN:HA	2:M:995:MET:HE1	1.84	0.60
2:C:712:ALA:O	2:C:820:ARG:CB	2.50	0.60
3:N:477:LEU:HD11	3:N:495:ARG:HD3	1.84	0.60
3:D:1123:PHE:HA	3:D:1133:ARG:O	2.01	0.60
1:B:132:LEU:HD21	1:B:136:GLY:O	2.01	0.60
1:K:7:LYS:HZ1	1:K:186:LEU:HD21	1.67	0.60
2:C:1017:THR:HG23	9:C:1263:HOH:O	2.00	0.60
3:N:73:CYS:HB3	3:N:76:CYS:O	2.02	0.60
3:D:408:GLU:HA	5:F:171:LYS:NZ	2.16	0.60
2:C:260:LEU:HA	2:C:291:ALA:CB	2.31	0.60
1:K:18:ARG:NH1	1:K:88:ARG:HD3	2.16	0.60
2:M:9:ILE:HG13	2:M:9:ILE:O	2.02	0.60
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.31	0.60
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:161:LEU:O	3:N:161:LEU:HD23	2.02	0.60
3:N:141:ILE:HG22	3:N:450:TYR:H	1.66	0.60
2:C:591:SER:HA	9:C:1421:HOH:O	2.02	0.60
2:M:874:LEU:HD12	3:N:784:ASP:OD2	2.02	0.60
3:N:130:SER:O	3:N:568:ARG:NH2	2.35	0.60
2:C:1008:ARG:HD2	2:C:1028:GLY:N	2.17	0.60
2:M:710:ILE:HD11	2:M:758:ARG:HD3	1.84	0.60
4:O:61:VAL:O	4:O:65:MET:HG3	2.02	0.60
1:L:217:ILE:O	1:L:221:HIS:ND1	2.33	0.60
3:D:1326:THR:HG23	9:D:2026:HOH:O	2.01	0.60
3:N:10:ILE:HG13	3:N:1434:TRP:CE2	2.37	0.60
3:N:1114:THR:H	3:N:1195:GLN:HE21	1.50	0.60
4:O:9:LEU:HD22	4:O:19:LEU:HD11	1.83	0.60
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.83	0.60
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.32	0.60
3:D:1125:PRO:HB2	9:D:2360:HOH:O	2.01	0.60
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.84	0.60
2:M:833:LEU:HD12	2:M:834:GLN:H	1.67	0.60
2:M:1018:GLN:OE1	2:M:1060:ILE:HD11	2.02	0.59
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.02	0.59
1:K:191:ASP:O	1:K:192:LEU:HD23	2.01	0.59
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.37	0.59
2:M:139:GLN:NE2	2:M:415:PRO:HD2	2.17	0.59
3:N:204:LEU:HB2	3:N:394:LEU:HG	1.83	0.59
2:C:431:HIS:H	2:C:434:HIS:CD2	2.20	0.59
2:C:244:PRO:HD2	2:C:245:GLY:H	1.65	0.59
1:A:123:MET:C	1:A:125:PRO:HD3	2.22	0.59
3:D:438:ASP:HB3	9:D:1574:HOH:O	2.02	0.59
1:B:123:MET:C	1:B:125:PRO:HD3	2.22	0.59
3:D:1117:TYR:HB3	9:D:2262:HOH:O	2.02	0.59
5:P:93:LEU:HG	5:P:190:ALA:CB	2.32	0.59
3:D:786:ILE:HD13	3:D:1027:GLY:HA3	1.83	0.59
3:N:550:ARG:HH11	3:N:573:MET:HB3	1.67	0.59
3:N:675:ARG:HG2	3:N:678:GLU:OE2	2.02	0.59
3:D:409:VAL:CG1	3:D:435:VAL:HG11	2.31	0.59
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.15	0.59
3:N:865:THR:HG22	9:N:1713:HOH:O	2.03	0.59
3:D:133:ILE:HG21	9:D:1764:HOH:O	2.02	0.59
3:N:169:TYR:O	3:N:392:SER:HB2	2.01	0.59
5:F:372:ARG:HG3	9:F:595:HOH:O	2.01	0.59
1:L:59:GLU:HG3	1:L:139:ASN:HD22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:198:ARG:HG2	9:K:1904:HOH:O	2.01	0.59
2:C:712:ALA:O	2:C:820:ARG:HB2	2.02	0.59
3:D:37:LEU:HD13	3:D:535:PHE:HZ	1.68	0.59
2:C:933:GLY:HA2	9:C:1525:HOH:O	2.02	0.59
3:D:617:ASN:OD1	3:D:617:ASN:N	2.36	0.59
3:N:1264:GLU:O	3:N:1266:ARG:HG3	2.02	0.59
3:D:47:GLU:HG2	9:D:1900:HOH:O	2.02	0.59
3:N:565:ILE:HD12	5:P:192:LEU:HD13	1.84	0.59
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.84	0.59
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.36	0.59
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.83	0.59
3:D:704:ARG:HD2	3:D:738:ALA:HB2	1.84	0.59
3:N:704:ARG:HD2	3:N:738:ALA:HB2	1.83	0.59
3:N:770:LEU:HB3	9:N:1689:HOH:O	2.01	0.59
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.31	0.59
4:E:47:LYS:HE2	9:E:154:HOH:O	2.03	0.59
3:N:95:LEU:HA	3:N:551:ASN:HD21	1.66	0.59
3:D:133:ILE:HG22	3:D:455:ARG:N	2.17	0.59
3:N:1087:ARG:HG2	3:N:1238:MET:HB3	1.83	0.59
2:M:833:LEU:HD12	2:M:834:GLN:N	2.17	0.59
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.36	0.59
5:F:295:MET:HG2	5:F:299:TRP:CE2	2.37	0.59
2:M:328:LEU:HD22	2:M:437:ARG:HB3	1.83	0.59
2:M:468:ARG:HD3	9:M:2184:HOH:O	2.01	0.59
3:N:165:LYS:HG3	3:N:397:LYS:HD3	1.84	0.59
3:D:1023:MET:HB2	3:D:1029:ARG:O	2.03	0.59
3:D:804:LEU:HD23	3:D:804:LEU:H	1.68	0.59
1:K:88:ARG:HG2	1:K:121:GLU:HG2	1.84	0.59
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.83	0.59
1:K:50:GLY:O	1:K:146:ARG:HA	2.02	0.59
1:B:169:ALA:HB1	1:B:171:PHE:CE2	2.37	0.59
4:O:33:HIS:HB2	4:O:37:ASN:HD21	1.66	0.59
3:D:486:ARG:HD2	9:D:1689:HOH:O	2.03	0.59
3:N:734:GLU:HB2	9:N:1648:HOH:O	2.01	0.59
3:D:980:MET:HG3	9:D:1653:HOH:O	2.01	0.59
1:L:226:SER:O	1:L:228:PRO:HD3	2.02	0.59
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.83	0.59
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.84	0.59
2:M:208:ALA:O	2:M:218:VAL:HG21	2.02	0.59
2:M:305:PRO:HA	2:M:308:ARG:HD2	1.84	0.59
3:N:570:GLU:HB2	5:P:214:GLN:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:192:ALA:HB1	9:D:2083:HOH:O	2.02	0.59
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.84	0.59
3:N:1357:ARG:HB2	9:N:1826:HOH:O	2.01	0.59
3:D:1088:THR:HG21	9:D:1813:HOH:O	2.02	0.59
3:N:1342:GLU:HG3	9:N:1945:HOH:O	2.03	0.59
2:C:510:ALA:HB3	2:C:513:VAL:CG2	2.32	0.59
2:C:966:LEU:HD21	2:C:986:PRO:HG3	1.85	0.59
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.23	0.59
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.27	0.59
3:N:133:ILE:HG22	3:N:455:ARG:N	2.18	0.59
3:N:560:GLN:OE1	5:P:218:GLN:HG3	2.01	0.59
5:F:256:ARG:HD3	9:F:585:HOH:O	2.03	0.59
5:F:268:ILE:HD13	5:F:311:ALA:HB2	1.83	0.59
3:D:408:GLU:HA	5:F:171:LYS:HZ1	1.67	0.59
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.84	0.59
3:N:1117:TYR:HB3	9:N:1591:HOH:O	2.03	0.59
3:D:926:LYS:HE2	9:D:1617:HOH:O	2.01	0.59
1:B:40:LEU:HD21	1:B:215:VAL:HG12	1.84	0.59
3:N:434:ARG:HG2	9:N:2229:HOH:O	2.03	0.59
2:M:750:LYS:HB3	9:N:2087:HOH:O	2.02	0.59
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.83	0.59
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.85	0.59
1:A:123:MET:O	1:A:125:PRO:HD3	2.03	0.59
3:D:169:TYR:O	3:D:392:SER:HB2	2.02	0.59
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.85	0.59
3:N:1403:LEU:HD23	9:N:1794:HOH:O	2.02	0.59
2:C:984:GLU:HG3	3:D:944:THR:O	2.02	0.59
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.84	0.59
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.37	0.59
2:C:230:ARG:HG3	9:C:1406:HOH:O	2.01	0.59
4:E:41:GLU:N	4:E:42:PRO:HD2	2.17	0.59
5:P:113:ILE:HG23	5:P:127:ILE:HB	1.85	0.59
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.83	0.59
2:C:260:LEU:HD21	9:C:1182:HOH:O	2.02	0.59
2:M:627:ARG:HG3	2:M:628:PHE:H	1.68	0.59
2:M:482:GLU:HB3	9:M:2150:HOH:O	2.02	0.59
2:M:738:ASP:CB	2:M:744:ARG:HB3	2.31	0.59
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.84	0.59
5:P:400:ILE:HD11	9:P:513:HOH:O	2.02	0.59
2:C:346:VAL:O	2:C:350:ARG:HG3	2.03	0.59
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:490:ALA:HA	9:D:1529:HOH:O	2.03	0.59
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.84	0.59
3:D:47:GLU:HA	3:D:51:GLY:O	2.03	0.59
2:M:579:VAL:HB	2:M:890:LEU:CD2	2.33	0.59
2:C:773:LEU:O	2:C:777:ILE:HG13	2.03	0.59
5:F:369:LEU:O	5:F:373:LYS:HB2	2.02	0.59
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.35	0.59
5:F:400:ILE:HD11	9:F:643:HOH:O	2.03	0.59
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.85	0.59
2:C:19:THR:O	2:C:23:VAL:HG23	2.02	0.59
3:D:824:ASN:HB3	9:D:2122:HOH:O	2.01	0.59
3:N:404:GLU:HB2	9:N:1640:HOH:O	2.03	0.59
4:E:7:ASP:HB2	9:E:100:HOH:O	2.03	0.59
1:A:26:GLU:HG3	1:A:27:PRO:HD3	1.85	0.59
2:C:408:ARG:HH21	2:C:542:VAL:HG22	1.66	0.59
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.85	0.59
1:L:182:GLU:HB2	9:L:2617:HOH:O	2.01	0.59
2:M:1053:LEU:HB3	9:N:2033:HOH:O	2.03	0.59
2:C:185:LYS:HE2	2:C:190:LYS:HG2	1.84	0.59
5:P:130:VAL:HA	5:P:142:ARG:NH2	2.17	0.59
2:C:564:MET:HG3	2:C:997:LEU:HD11	1.84	0.59
3:N:1351:GLU:HG2	9:N:1724:HOH:O	2.02	0.59
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.32	0.59
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.23	0.59
3:N:1108:ARG:NH2	3:N:1198:TYR:HB2	2.16	0.59
3:N:847:ASP:O	3:N:851:LEU:HG	2.02	0.59
3:N:1299:PHE:HB2	9:N:1861:HOH:O	2.02	0.59
2:M:585:GLU:HB3	9:M:1636:HOH:O	2.01	0.59
3:D:646:LYS:HE2	3:D:722:GLU:HG2	1.84	0.59
2:C:841:ASN:HD21	2:C:845:ASN:H	1.50	0.59
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.38	0.59
1:L:101:LEU:HD11	9:L:1850:HOH:O	2.03	0.59
3:D:187:LYS:CE	3:D:199:LEU:HB3	2.27	0.59
2:C:362:GLY:HA3	2:C:367:LEU:CD2	2.33	0.59
3:N:489:ARG:HH21	3:N:1389:LEU:HD11	1.67	0.59
2:C:163:ILE:HG13	2:C:163:ILE:O	2.01	0.59
2:C:705:ILE:HG12	2:C:828:ALA:HB2	1.85	0.59
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.85	0.59
3:D:448:GLU:HG2	3:D:448:GLU:O	2.02	0.59
2:C:36:PRO:HG3	2:C:71:TYR:CE2	2.38	0.59
2:C:410:ILE:HD11	2:C:455:LEU:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:158:ILE:H	1:K:166:PRO:HG3	1.68	0.59
5:P:406:ARG:O	5:P:409:LYS:HG2	2.02	0.59
2:C:1087:VAL:HG13	3:D:610:LYS:NZ	2.13	0.58
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.32	0.58
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.33	0.58
3:N:84:ILE:HG13	3:N:85:VAL:N	2.18	0.58
3:D:592:THR:N	3:D:600:LEU:HD21	2.15	0.58
3:D:481:MET:HG3	3:D:1388:ARG:CZ	2.32	0.58
5:P:140:ARG:HG3	5:P:141:VAL:H	1.68	0.58
2:M:292:ARG:HG2	9:M:1952:HOH:O	2.01	0.58
2:C:402:SER:OG	2:C:566:THR:HG22	2.02	0.58
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.85	0.58
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.33	0.58
2:C:437:ARG:CZ	2:C:488:ALA:HA	2.33	0.58
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.84	0.58
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.17	0.58
4:E:83:ASP:O	4:E:86:GLN:HG2	2.03	0.58
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.18	0.58
2:C:294:GLU:HB3	9:C:1227:HOH:O	2.03	0.58
3:D:498:VAL:HG23	3:D:499:VAL:N	2.18	0.58
2:M:185:LYS:HE2	2:M:190:LYS:HE2	1.84	0.58
3:D:1311:LEU:HD22	9:D:1836:HOH:O	2.03	0.58
2:M:1056:LYS:NZ	3:N:749:VAL:O	2.35	0.58
3:N:957:PRO:HG2	3:N:1007:VAL:CA	2.29	0.58
2:M:194:VAL:HG21	2:M:221:LEU:O	2.02	0.58
2:M:300:ASP:HA	9:M:2239:HOH:O	2.03	0.58
2:M:140:ILE:CD1	2:M:412:ALA:HA	2.32	0.58
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.85	0.58
1:A:36:LEU:O	1:A:39:PRO:HD2	2.02	0.58
3:N:634:GLY:O	3:N:637:LEU:HB3	2.03	0.58
3:D:799:LYS:HB3	3:D:826:PRO:HG2	1.84	0.58
3:N:206:ARG:HH12	5:P:98:GLU:CA	2.15	0.58
3:N:1114:THR:H	3:N:1195:GLN:NE2	2.01	0.58
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.37	0.58
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.66	0.58
3:D:702:LEU:HD23	3:D:745:MET:HE2	1.85	0.58
3:N:640:HIS:HE1	4:O:3:GLU:HG2	1.68	0.58
3:D:1177:ALA:HB3	3:D:1183:ILE:HD11	1.85	0.58
5:F:270:LYS:HG3	9:F:511:HOH:O	2.02	0.58
3:N:610:LYS:O	3:N:611:GLN:CG	2.50	0.58
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:132:ARG:HG2	5:F:181:GLU:CD	2.22	0.58
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.33	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.02	0.58
2:M:859:PRO:O	2:M:867:VAL:HG22	2.03	0.58
3:D:481:MET:HG2	3:D:482:LYS:N	2.18	0.58
2:C:80:GLN:O	2:C:83:CYS:HB2	2.03	0.58
2:C:838:LYS:HE3	2:C:997:LEU:HD12	1.86	0.58
2:M:838:LYS:NZ	2:M:846:LYS:HE2	2.18	0.58
3:N:169:TYR:CB	3:N:195:VAL:HG11	2.33	0.58
2:M:654:LEU:HD11	2:M:663:ASN:ND2	2.18	0.58
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.84	0.58
3:D:992:ILE:O	3:D:995:LEU:HB3	2.03	0.58
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.85	0.58
1:L:99:LEU:HG	9:L:1066:HOH:O	2.03	0.58
4:E:69:LEU:HB3	9:E:140:HOH:O	2.02	0.58
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.85	0.58
3:D:527:MET:CE	5:F:258:ILE:HD11	2.33	0.58
2:C:110:GLU:CB	2:C:369:PRO:HG3	2.33	0.58
3:D:560:GLN:HB2	9:D:1923:HOH:O	2.03	0.58
2:C:641:PRO:O	2:C:642:ARG:HD2	2.02	0.58
5:P:282:LEU:HD22	9:P:504:HOH:O	2.03	0.58
1:B:46:SER:O	1:B:148:VAL:HB	2.03	0.58
2:C:730:SER:HB2	9:C:1128:HOH:O	2.02	0.58
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.85	0.58
3:N:783:ARG:CZ	3:N:1029:ARG:HG3	2.32	0.58
2:C:150:PRO:HD3	9:C:1150:HOH:O	2.04	0.58
3:D:523:ASP:N	9:D:1713:HOH:O	2.30	0.58
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.30	0.58
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.84	0.58
3:N:813:LEU:O	3:N:817:GLU:HB2	2.03	0.58
3:D:1145:TYR:HE2	3:D:1168:MET:HB2	1.69	0.58
2:M:15:LEU:HD22	2:M:583:LEU:HD21	1.85	0.58
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.06	0.58
1:L:188:GLN:HG3	3:N:685:ASP:OD2	2.03	0.58
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.03	0.58
2:M:742:VAL:HG12	2:M:743:VAL:N	2.19	0.58
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.04	0.58
2:C:911:GLU:O	2:C:914:ILE:HG22	2.03	0.58
3:N:481:MET:SD	3:N:1388:ARG:HD2	2.44	0.58
2:C:980:GLY:HA2	9:C:1431:HOH:O	2.03	0.58
1:A:218:LEU:O	1:A:222:LEU:HD12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:829:VAL:H	3:N:835:SER:HB2	1.69	0.58
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.85	0.58
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.84	0.58
2:M:723:THR:HG21	9:M:1850:HOH:O	2.03	0.58
5:F:323:ASP:HA	9:F:481:HOH:O	2.02	0.58
2:C:429:ASP:HB3	9:C:1177:HOH:O	2.04	0.58
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.33	0.58
3:D:1026:SER:HA	9:D:2416:HOH:O	2.02	0.58
3:N:116:LEU:HD21	3:N:464:LEU:CB	2.31	0.58
5:F:292:ALA:HB1	5:F:299:TRP:O	2.03	0.58
2:M:139:GLN:CD	2:M:415:PRO:HD2	2.24	0.58
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.86	0.58
3:D:586:ARG:CZ	3:D:1444:THR:HG21	2.34	0.58
2:C:265:ARG:HG2	2:C:267:TYR:H	1.68	0.58
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.86	0.58
3:D:792:ILE:O	3:D:878:GLY:HA3	2.04	0.58
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.84	0.58
3:D:1422:MET:CE	3:D:1427:SER:HA	2.34	0.58
3:D:1063:GLU:HB3	9:D:1948:HOH:O	2.03	0.58
3:D:710:ARG:HH21	3:D:1210:SER:HB2	1.69	0.58
2:M:151:ASP:OD2	2:M:159:ILE:HG23	2.03	0.58
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.84	0.58
3:N:984:THR:HG22	3:N:987:GLU:H	1.68	0.58
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.67	0.58
2:C:56:GLU:OE1	2:C:64:LEU:HD22	2.03	0.58
2:M:101:ILE:HD11	9:M:1739:HOH:O	2.04	0.58
2:C:139:GLN:CD	2:C:415:PRO:HD2	2.24	0.58
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.85	0.58
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.84	0.58
5:F:77:THR:O	5:F:81:VAL:HG23	2.03	0.58
2:C:86:LYS:CD	2:C:813:VAL:HG12	2.33	0.58
3:N:631:ILE:HG21	3:N:745:MET:SD	2.43	0.58
2:C:137:VAL:O	2:C:391:LEU:HD21	2.04	0.58
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.34	0.58
2:M:583:LEU:O	2:M:587:VAL:HG23	2.04	0.58
1:B:108:GLU:HB3	9:B:522:HOH:O	2.02	0.58
1:K:96:THR:HG21	9:K:4199:HOH:O	2.03	0.58
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.85	0.58
1:B:105:GLY:O	1:B:132:LEU:HB3	2.04	0.58
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.69	0.58
2:M:260:LEU:HA	2:M:291:ALA:CB	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:185:VAL:HG23	3:D:202:VAL:C	2.24	0.58
3:D:1114:THR:H	3:D:1195:GLN:NE2	2.01	0.58
2:M:902:ILE:O	2:M:904:PRO:HD3	2.03	0.58
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ1	1.68	0.58
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.69	0.58
2:M:1056:LYS:O	3:N:624:ASP:HB2	2.04	0.58
2:C:9:ILE:O	2:C:9:ILE:HG13	2.04	0.58
3:D:1357:ARG:HG2	9:D:2067:HOH:O	2.04	0.58
1:K:182:GLU:O	1:K:194:LYS:HB3	2.04	0.58
5:F:95:THR:HG23	9:F:465:HOH:O	2.02	0.58
3:D:686:GLU:HA	3:D:689:ASP:OD2	2.04	0.58
3:D:171:LEU:HD21	9:D:2083:HOH:O	2.03	0.58
4:O:31:LEU:HD23	4:O:35:PHE:HE1	1.68	0.58
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.39	0.58
2:C:182:VAL:HB	2:C:193:LEU:HD13	1.85	0.58
5:F:79:ASP:OD2	5:F:80:PRO:HD3	2.04	0.58
1:A:133:GLU:HB3	9:C:1680:HOH:O	2.02	0.58
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.85	0.58
3:N:1286:THR:HG22	9:N:1537:HOH:O	2.02	0.58
2:C:72:ARG:HB2	9:C:1804:HOH:O	2.04	0.58
2:C:404:LEU:O	2:C:407:LYS:HB2	2.04	0.57
3:D:81:THR:HB	3:D:85:VAL:CG2	2.34	0.57
2:C:102:HIS:HB2	2:C:106:GLY:O	2.04	0.57
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.39	0.57
3:N:572:ARG:HH21	5:P:83:GLN:HE21	1.50	0.57
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.17	0.57
2:M:1005:MET:CE	3:N:648:MET:HB2	2.33	0.57
3:D:813:LEU:O	3:D:817:GLU:HB2	2.04	0.57
2:C:705:ILE:HA	2:C:827:VAL:O	2.04	0.57
2:M:420:ARG:NH1	2:M:422:ARG:HH21	2.02	0.57
2:M:768:THR:HG21	9:P:562:HOH:O	2.04	0.57
2:C:242:LEU:HD23	9:C:1218:HOH:O	2.03	0.57
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.17	0.57
2:C:184:MET:SD	2:C:303:PHE:HE2	2.27	0.57
3:N:1209:LEU:HD23	3:N:1211:MET:CG	2.34	0.57
3:D:15:PRO:HG3	9:D:1709:HOH:O	2.04	0.57
3:D:204:LEU:HB2	3:D:394:LEU:HG	1.84	0.57
2:M:733:ALA:HB2	3:N:679:ARG:HH21	1.69	0.57
3:N:525:ARG:N	3:N:526:PRO:HD3	2.18	0.57
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.84	0.57
2:M:697:ARG:HD2	2:M:699:PHE:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:671:ASN:N	2:M:671:ASN:ND2	2.48	0.57
3:D:1045:MET:HG3	3:D:1073:SER:HA	1.86	0.57
3:D:1141:GLU:CD	3:D:1168:MET:HE1	2.25	0.57
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.04	0.57
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.86	0.57
1:L:101:LEU:HD12	1:L:114:PHE:N	2.18	0.57
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.87	0.57
3:N:152:LEU:HD23	3:N:152:LEU:N	2.18	0.57
2:M:144:PRO:O	2:M:276:LYS:HD3	2.04	0.57
3:N:493:ARG:HB2	3:N:1388:ARG:CZ	2.34	0.57
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.34	0.57
5:P:130:VAL:HG11	5:P:159:ILE:HB	1.86	0.57
3:N:1293:PHE:CE2	3:N:1302:GLU:HB3	2.39	0.57
3:D:1112:CYS:HB2	3:D:1195:GLN:CG	2.33	0.57
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.39	0.57
1:B:206:THR:CG2	1:B:209:GLU:H	2.17	0.57
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.33	0.57
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.39	0.57
1:L:99:LEU:HD21	1:L:122:ILE:HD11	1.86	0.57
2:C:715:THR:HG22	2:C:717:LEU:HG	1.86	0.57
1:L:62:LEU:H	1:L:62:LEU:HD12	1.69	0.57
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	2.03	0.57
1:K:58:ILE:HB	1:K:61:VAL:HB	1.85	0.57
1:A:186:LEU:CB	1:A:192:LEU:HD11	2.34	0.57
1:K:42:ARG:HH12	1:L:34:VAL:CB	2.13	0.57
2:C:94:LEU:HD12	9:C:1545:HOH:O	2.04	0.57
2:M:139:GLN:O	2:M:333:ILE:HA	2.04	0.57
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.19	0.57
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.34	0.57
1:B:55:SER:OG	1:B:158:ILE:HD13	2.05	0.57
3:N:1115:THR:HG22	9:N:1591:HOH:O	2.04	0.57
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.86	0.57
1:B:209:GLU:HB3	9:B:448:HOH:O	2.04	0.57
2:M:136:ILE:HG22	2:M:336:VAL:HG22	1.86	0.57
1:L:132:LEU:HD21	1:L:136:GLY:O	2.04	0.57
3:D:81:THR:O	3:D:82:LYS:O	2.21	0.57
2:C:100:LEU:HD12	2:C:101:ILE:O	2.05	0.57
2:M:56:GLU:OE1	2:M:64:LEU:HD22	2.05	0.57
4:O:41:GLU:N	4:O:42:PRO:HD2	2.20	0.57
4:E:63:TRP:O	4:E:67:GLU:HG3	2.05	0.57
3:N:614:PHE:CD1	3:N:615:ARG:N	2.72	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:166:PRO:HD3	2:C:265:ARG:CG	2.34	0.57
9:C:1139:HOH:O	5:F:373:LYS:HB3	2.03	0.57
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.35	0.57
2:M:480:THR:HB	9:M:2150:HOH:O	2.03	0.57
1:K:18:ARG:O	1:K:207:PRO:HD3	2.05	0.57
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.86	0.57
1:K:16:GLN:O	1:K:16:GLN:HG2	2.05	0.57
3:D:195:VAL:HG13	9:D:2268:HOH:O	2.04	0.57
3:N:480:GLU:O	3:N:480:GLU:HG3	2.04	0.57
1:A:227:ASN:ND2	1:A:227:ASN:H	2.03	0.57
3:D:189:GLN:HG3	3:D:190:GLU:N	2.20	0.57
3:D:610:LYS:CD	7:D:1527:MXP:H15A	2.34	0.57
2:C:480:THR:HG22	2:C:481:ASP:N	2.19	0.57
3:N:455:ARG:HD2	9:N:2063:HOH:O	2.05	0.57
2:M:41:ASN:N	2:M:41:ASN:HD22	1.89	0.57
1:B:143:ARG:HD2	1:B:160:ASP:OD2	2.04	0.57
2:C:142:ARG:HD3	9:C:1347:HOH:O	2.04	0.57
3:N:850:LEU:N	3:N:850:LEU:HD12	2.15	0.57
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.85	0.57
2:M:959:PRO:HD3	9:M:1887:HOH:O	2.04	0.57
2:M:420:ARG:HG3	2:M:422:ARG:HG2	1.87	0.57
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.87	0.57
5:P:147:LEU:HB3	9:P:604:HOH:O	2.04	0.57
2:C:15:LEU:HD22	2:C:583:LEU:HD11	1.85	0.57
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.07	0.57
3:N:827:ILE:HB	9:N:2048:HOH:O	2.04	0.57
3:D:1179:GLU:HA	9:D:2069:HOH:O	2.05	0.57
3:D:576:GLU:HB2	9:D:1696:HOH:O	2.03	0.57
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.19	0.57
3:D:82:LYS:HE2	9:D:1577:HOH:O	2.05	0.57
2:M:1002:GLU:HG3	3:N:744:GLN:NE2	2.20	0.57
3:N:1037:GLN:HG2	3:N:1042:ARG:HB3	1.85	0.57
2:C:705:ILE:HB	9:C:1287:HOH:O	2.04	0.57
3:N:1189:ARG:NH1	3:N:1203:LYS:HB2	2.20	0.57
2:C:21:ILE:HD12	2:C:21:ILE:H	1.70	0.57
2:C:430:VAL:HG11	3:D:1074:SER:OG	2.04	0.57
2:C:238:LEU:HD12	9:C:1705:HOH:O	2.05	0.57
2:C:1008:ARG:NH1	2:C:1028:GLY:HA2	2.15	0.57
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.87	0.57
2:C:724:ARG:O	2:C:734:LEU:HD21	2.05	0.57
1:L:39:PRO:O	1:L:43:ILE:HG12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:178:ALA:HB2	2:M:864:GLY:H	1.69	0.57
5:F:113:ILE:HG23	5:F:127:ILE:HB	1.87	0.57
2:C:495:THR:H	2:C:530:GLU:CD	2.08	0.57
1:K:227:ASN:ND2	1:K:227:ASN:H	2.02	0.57
3:N:992:ILE:O	3:N:995:LEU:HB3	2.05	0.57
2:M:189:ARG:HD2	9:M:2270:HOH:O	2.04	0.57
2:M:876:VAL:HA	9:M:1870:HOH:O	2.03	0.57
3:D:546:ARG:HA	9:D:1595:HOH:O	2.05	0.57
2:M:939:ARG:HD3	2:M:975:TYR:CE2	2.40	0.57
4:O:54:LEU:O	4:O:54:LEU:HD23	2.05	0.57
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.86	0.57
3:N:77:GLY:O	3:N:78:VAL:HG23	2.05	0.57
1:B:7:LYS:O	1:B:7:LYS:HG3	2.05	0.57
5:P:138:SER:O	5:P:141:VAL:HG12	2.03	0.57
2:C:341:THR:HG21	9:C:1365:HOH:O	2.05	0.57
2:C:615:TYR:HB2	9:C:1584:HOH:O	2.05	0.57
3:N:834:THR:HB	3:N:838:ARG:HB2	1.86	0.57
3:D:1376:MET:HG2	3:D:1421:LEU:HD12	1.86	0.57
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.34	0.57
3:D:820:GLU:HG3	3:D:836:VAL:HG11	1.86	0.57
2:C:206:THR:HG21	9:C:1559:HOH:O	2.04	0.57
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.05	0.57
2:C:322:VAL:HG21	9:C:1390:HOH:O	2.04	0.57
5:P:361:LEU:HD13	5:P:366:ALA:HB2	1.86	0.57
3:N:171:LEU:HD13	9:N:1797:HOH:O	2.05	0.57
3:N:409:VAL:CG1	3:N:435:VAL:HG11	2.33	0.57
3:N:1390:LEU:HB2	9:N:1897:HOH:O	2.05	0.57
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.05	0.57
1:K:18:ARG:HD2	1:K:123:MET:CE	2.35	0.57
1:L:44:LEU:HD21	1:L:199:ILE:HD13	1.85	0.57
2:C:838:LYS:NZ	2:C:846:LYS:HE2	2.20	0.57
5:P:393:THR:O	5:P:397:ILE:HG13	2.05	0.57
4:O:33:HIS:CE1	4:O:89:MET:HG2	2.39	0.57
3:N:1295:GLU:HB3	3:N:1300:SER:HB3	1.87	0.57
3:D:1443:THR:HG22	9:D:1543:HOH:O	2.03	0.57
2:C:477:GLY:O	2:C:508:ILE:HG12	2.05	0.57
1:B:101:LEU:HD11	1:B:113:ASP:HB2	1.87	0.57
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.87	0.56
2:C:857:ASP:HB2	2:C:978:ARG:HB3	1.85	0.56
3:N:957:PRO:HG3	3:N:1010:ASN:HD22	1.70	0.56
3:D:32:ILE:HG22	5:F:258:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:144:PRO:HA	2:M:163:ILE:CG1	2.35	0.56
3:N:1384:PRO:HG3	3:N:1389:LEU:HA	1.86	0.56
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.87	0.56
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.16	0.56
2:M:404:LEU:O	2:M:407:LYS:HB2	2.05	0.56
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.87	0.56
2:C:457:ALA:N	2:C:540:PHE:O	2.36	0.56
9:C:1255:HOH:O	5:F:354:LEU:HD11	2.04	0.56
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.36	0.56
1:B:201:THR:HG21	1:B:205:VAL:O	2.05	0.56
2:M:1105:LYS:HG3	9:M:1731:HOH:O	2.04	0.56
2:M:665:PHE:HB2	9:M:1978:HOH:O	2.04	0.56
1:A:34:VAL:HB	1:B:42:ARG:HH21	1.69	0.56
3:D:1090:ASP:HA	3:D:1093:TYR:HB2	1.87	0.56
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.87	0.56
1:A:178:ALA:HB1	9:C:1688:HOH:O	2.05	0.56
1:L:57:TYR:O	1:L:140:MET:HA	2.05	0.56
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.85	0.56
2:M:722:ILE:O	2:M:722:ILE:HG23	2.04	0.56
3:N:106:LYS:HB3	9:N:2026:HOH:O	2.05	0.56
2:M:141:HIS:HB3	2:M:418:LEU:CG	2.35	0.56
2:M:102:HIS:HB2	2:M:106:GLY:O	2.05	0.56
2:M:110:GLU:H	2:M:368:THR:HG21	1.69	0.56
3:D:1410:GLU:HG3	9:D:1966:HOH:O	2.04	0.56
4:O:45:ARG:NH2	4:O:55:PHE:HB3	2.20	0.56
2:C:766:GLU:HG2	2:C:772:ARG:NH1	2.19	0.56
1:K:103:ALA:CB	1:K:107:LYS:HE2	2.35	0.56
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.87	0.56
1:A:206:THR:HG22	1:A:209:GLU:H	1.69	0.56
3:D:894:LYS:HB3	9:D:2117:HOH:O	2.05	0.56
1:L:123:MET:O	1:L:125:PRO:HD3	2.05	0.56
3:N:1087:ARG:HG2	3:N:1238:MET:CB	2.34	0.56
3:D:428:LYS:HD3	9:D:1840:HOH:O	2.05	0.56
2:C:252:LYS:HE2	9:C:1771:HOH:O	2.04	0.56
3:N:1288:GLU:HA	9:N:1542:HOH:O	2.04	0.56
3:N:2:LYS:HD3	9:N:2388:HOH:O	2.04	0.56
1:A:158:ILE:H	1:A:166:PRO:HG3	1.70	0.56
1:A:149:GLY:O	1:A:171:PHE:HB2	2.06	0.56
3:D:611:GLN:NE2	3:D:1439:SER:HB3	2.20	0.56
1:L:71:VAL:HG22	1:L:132:LEU:HD12	1.87	0.56
3:N:1356:TYR:HD2	3:N:1363:LEU:HD23	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.85	0.56
3:D:81:THR:HG22	3:D:82:LYS:N	2.21	0.56
2:C:1018:GLN:NE2	3:D:87:ARG:HH12	2.03	0.56
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.21	0.56
5:F:271:LEU:HG	5:F:295:MET:HE1	1.87	0.56
2:M:328:LEU:HD23	2:M:467:ILE:HB	1.87	0.56
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.40	0.56
1:L:169:ALA:HB1	1:L:171:PHE:CE2	2.40	0.56
3:N:1388:ARG:HG3	3:N:1389:LEU:N	2.19	0.56
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.33	0.56
4:E:45:ARG:NH2	4:E:55:PHE:HB3	2.20	0.56
4:E:54:LEU:CD2	4:E:63:TRP:HE1	2.18	0.56
2:M:733:ALA:HB2	3:N:679:ARG:HH22	1.66	0.56
5:F:88:ILE:HG12	5:F:193:ARG:HB2	1.87	0.56
1:A:88:ARG:NH2	1:A:90:LEU:HD21	2.20	0.56
2:M:480:THR:HG22	2:M:481:ASP:N	2.19	0.56
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.41	0.56
1:L:36:LEU:O	1:L:39:PRO:HD2	2.04	0.56
3:N:799:LYS:HB3	3:N:826:PRO:CG	2.34	0.56
3:D:165:LYS:HA	9:D:2176:HOH:O	2.05	0.56
3:D:169:TYR:CE1	3:D:197:SER:HB2	2.40	0.56
3:N:114:THR:O	3:N:495:ARG:HG3	2.06	0.56
1:K:5:LYS:O	1:K:8:ALA:HB2	2.05	0.56
2:M:631:SER:HB3	2:M:637:LEU:HD21	1.87	0.56
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.19	0.56
2:M:378:LEU:HG	2:M:382:ILE:HD11	1.87	0.56
5:F:203:THR:HG22	5:F:204:GLY:N	2.20	0.56
2:M:1015:LEU:HD12	9:P:651:HOH:O	2.04	0.56
2:C:1097:LEU:N	2:C:1097:LEU:HD12	2.20	0.56
2:C:8:ARG:HB3	9:C:1721:HOH:O	2.05	0.56
2:M:863:ASP:O	2:M:865:THR:N	2.37	0.56
3:N:1169:ASP:HA	9:N:1842:HOH:O	2.04	0.56
1:B:132:LEU:CD1	1:B:138:LEU:HD12	2.35	0.56
3:N:113:GLY:HA3	3:N:120:ALA:HA	1.88	0.56
3:N:560:GLN:HG2	5:P:221:ILE:HG21	1.86	0.56
3:D:394:LEU:HD21	9:D:1995:HOH:O	2.06	0.56
2:C:176:VAL:C	2:C:178:PRO:HD3	2.25	0.56
2:M:292:ARG:HD2	2:M:299:LYS:HG2	1.86	0.56
2:C:770:GLU:CG	3:D:65:ARG:HH12	2.17	0.56
2:M:565:GLN:OE1	2:M:842:ARG:HG2	2.05	0.56
2:M:662:GLU:HB3	9:M:1978:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:640:HIS:HB2	9:E:156:HOH:O	2.05	0.56
1:L:58:ILE:HG22	1:L:137:ARG:NH2	2.17	0.56
3:D:55:ASP:O	3:D:80:VAL:HG11	2.06	0.56
3:N:119:SER:HB2	3:N:123:LEU:CB	2.34	0.56
2:M:418:LEU:HD12	2:M:418:LEU:N	2.20	0.56
1:K:34:VAL:HG13	2:M:939:ARG:HH21	1.70	0.56
5:F:140:ARG:HG3	5:F:141:VAL:H	1.69	0.56
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.52	0.56
2:M:611:ILE:HG22	2:M:613:VAL:HG13	1.88	0.56
2:M:114:PHE:CE2	5:P:283:GLY:HA3	2.40	0.56
2:C:413:LEU:HB3	9:C:1518:HOH:O	2.05	0.56
3:N:592:THR:N	3:N:600:LEU:HD21	2.18	0.56
3:D:1389:LEU:HD12	3:D:1390:LEU:N	2.19	0.56
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.26	0.56
2:C:979:THR:HG23	2:C:981:GLU:N	2.18	0.56
3:N:814:ALA:O	3:N:818:ARG:HG3	2.05	0.56
2:M:464:LEU:HD12	2:M:465:GLY:H	1.70	0.56
2:C:838:LYS:HB2	2:C:848:VAL:HG22	1.86	0.56
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.86	0.56
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.71	0.56
2:C:350:ARG:HA	2:C:353:ARG:HD2	1.87	0.56
3:N:102:ILE:HD12	3:N:579:ASP:HB3	1.86	0.56
3:D:1092:GLY:HA3	9:D:2012:HOH:O	2.05	0.56
1:A:66:SER:O	1:A:75:VAL:HG23	2.05	0.56
3:N:143:ASN:HD21	3:N:145:VAL:HG12	1.70	0.56
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.87	0.56
2:M:141:HIS:HB2	9:M:2163:HOH:O	2.06	0.56
2:M:369:PRO:HD2	9:M:1905:HOH:O	2.06	0.56
3:N:485:SER:O	3:N:489:ARG:HB3	2.05	0.56
5:P:113:ILE:HA	5:P:116:LEU:HD12	1.88	0.56
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.41	0.56
3:N:72:VAL:HG13	9:N:1744:HOH:O	2.05	0.56
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.36	0.56
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.88	0.56
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.35	0.56
2:C:785:VAL:HG21	9:C:1244:HOH:O	2.05	0.56
3:N:637:LEU:HD11	3:N:642:CYS:N	2.21	0.56
2:M:408:ARG:HH21	2:M:542:VAL:CG2	2.17	0.56
3:N:1113:GLY:N	3:N:1195:GLN:HE22	2.03	0.56
2:M:660:ALA:HB3	9:M:1638:HOH:O	2.06	0.56
1:B:2:LEU:HD12	1:B:3:ASP:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.70	0.56
3:D:169:TYR:CB	3:D:195:VAL:HG11	2.34	0.56
3:N:564:GLU:HA	3:N:567:ILE:HD13	1.88	0.56
3:D:842:VAL:HG23	9:D:1531:HOH:O	2.06	0.56
1:B:15:THR:HB	9:B:419:HOH:O	2.05	0.56
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.87	0.56
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.21	0.56
2:M:857:ASP:HB2	2:M:978:ARG:HB3	1.87	0.56
3:N:602:SER:O	3:N:606:ILE:HG13	2.06	0.56
2:C:28:ARG:NH1	2:C:463:GLU:HG2	2.21	0.56
2:M:599:GLU:HG3	2:M:600:ASP:N	2.18	0.56
2:C:176:VAL:HG12	2:C:182:VAL:CG1	2.36	0.56
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.88	0.56
3:N:1495:ILE:HG12	4:O:80:VAL:CG1	2.35	0.56
3:N:800:LYS:HE2	3:N:804:LEU:HD13	1.88	0.56
2:C:80:GLN:HB2	9:C:1803:HOH:O	2.04	0.56
2:M:97:ARG:HG3	9:M:2157:HOH:O	2.05	0.56
1:A:133:GLU:HG2	1:A:134:GLU:N	2.20	0.56
2:C:607:ASP:HB3	2:C:609:ASN:H	1.70	0.56
2:C:818:GLY:HA2	5:F:309:LYS:NZ	2.20	0.56
5:P:108:GLU:HG3	5:P:176:ILE:HG21	1.88	0.56
2:M:15:LEU:HD21	2:M:583:LEU:HD11	1.88	0.56
1:B:115:LEU:HD23	9:B:435:HOH:O	2.04	0.56
2:M:34:VAL:HG21	2:M:38:LYS:HD3	1.87	0.56
3:N:443:VAL:HG22	3:N:444:VAL:N	2.20	0.56
1:K:20:TYR:CE2	1:K:22:GLU:HG3	2.41	0.56
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.35	0.56
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.41	0.56
9:A:318:HOH:O	2:C:627:ARG:HA	2.05	0.56
3:D:485:SER:O	3:D:489:ARG:HB3	2.06	0.56
3:N:1091:SER:HA	9:N:1706:HOH:O	2.06	0.56
5:F:225:GLU:HB3	9:F:605:HOH:O	2.06	0.56
4:O:84:ARG:HG3	9:O:2468:HOH:O	2.06	0.56
2:M:167:LYS:HB2	9:M:1774:HOH:O	2.06	0.56
5:F:101:GLU:HB3	5:F:105:LYS:HE3	1.87	0.56
3:D:403:PHE:CD1	3:D:405:ASP:O	2.53	0.56
3:D:696:HIS:HB2	4:E:48:MET:HE3	1.87	0.56
4:O:95:VAL:HG22	9:O:1302:HOH:O	2.06	0.56
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.35	0.56
2:C:165:LEU:HD13	9:C:1292:HOH:O	2.05	0.56
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:750:LYS:HD2	3:D:681:ARG:HE	1.70	0.56
5:P:375:LEU:HD23	9:P:476:HOH:O	2.05	0.56
5:P:193:ARG:HD2	9:P:514:HOH:O	2.05	0.56
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.21	0.56
2:M:193:LEU:HD11	9:M:1951:HOH:O	2.04	0.56
3:N:1492:LEU:HD23	9:N:2099:HOH:O	2.04	0.56
2:C:580:MET:SD	2:C:584:GLU:HG3	2.46	0.56
1:K:72:LYS:HE2	9:M:2012:HOH:O	2.05	0.56
3:N:1466:VAL:HG23	3:N:1472:ILE:CD1	2.35	0.56
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.40	0.56
2:C:365:ASP:HB3	9:C:1410:HOH:O	2.06	0.56
3:D:1204:CYS:HB3	9:D:1762:HOH:O	2.06	0.56
3:N:118:LEU:O	3:N:120:ALA:N	2.39	0.56
2:M:328:LEU:CD2	2:M:437:ARG:HB3	2.36	0.56
3:N:486:ARG:HD3	3:N:489:ARG:HD3	1.87	0.56
2:M:670:GLN:HE22	2:M:699:PHE:CA	2.19	0.56
2:M:626:ARG:HB2	2:M:639:GLN:HE21	1.70	0.56
3:D:1113:GLY:N	3:D:1195:GLN:NE2	2.53	0.56
3:D:126:VAL:O	3:D:132:TYR:HD1	1.89	0.56
2:M:235:LEU:HD11	9:M:2260:HOH:O	2.06	0.56
1:K:88:ARG:HG3	1:K:88:ARG:O	2.06	0.56
3:D:925:GLU:HB3	4:E:2:ALA:HB3	1.88	0.56
1:A:138:LEU:HD21	9:A:355:HOH:O	2.05	0.56
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.87	0.56
2:C:729:LEU:HD22	9:D:1907:HOH:O	2.06	0.56
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.36	0.55
3:D:80:VAL:N	9:D:1536:HOH:O	2.40	0.55
5:P:271:LEU:HG	5:P:295:MET:HE1	1.88	0.55
2:M:100:LEU:HD12	2:M:101:ILE:O	2.06	0.55
3:N:421:LEU:HG	3:N:429:SER:HB3	1.88	0.55
1:B:99:LEU:HD13	9:B:416:HOH:O	2.06	0.55
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.88	0.55
1:L:85:LEU:HD13	1:L:127:LEU:HD23	1.88	0.55
1:B:158:ILE:HG22	1:B:159:LYS:N	2.20	0.55
3:N:592:THR:HG23	9:N:1987:HOH:O	2.06	0.55
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.35	0.55
1:K:88:ARG:NH2	1:K:90:LEU:HD21	2.21	0.55
3:D:806:PHE:HE1	3:D:813:LEU:HB3	1.70	0.55
2:C:630:ARG:HG3	9:C:1287:HOH:O	2.07	0.55
1:L:206:THR:HG22	1:L:209:GLU:H	1.71	0.55
3:D:1035:ILE:HA	3:D:1038:LEU:CD1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:95:THR:HB	9:P:638:HOH:O	2.05	0.55
2:M:172:ILE:HA	2:M:185:LYS:O	2.07	0.55
3:D:1087:ARG:HD3	3:D:1236:LEU:O	2.06	0.55
5:F:416:ARG:HD3	5:F:419:ARG:HD3	1.89	0.55
3:N:561:GLY:HA3	5:P:184:ARG:HH12	1.71	0.55
3:D:1486:VAL:HG12	4:E:73:LEU:HD22	1.89	0.55
3:D:408:GLU:HB3	9:D:2146:HOH:O	2.05	0.55
2:C:416:GLY:HA3	9:C:1419:HOH:O	2.06	0.55
2:M:1008:ARG:NH1	2:M:1028:GLY:HA2	2.17	0.55
2:M:473:ARG:HB3	9:M:2150:HOH:O	2.05	0.55
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.87	0.55
5:P:261:PRO:O	5:P:265:VAL:HG23	2.07	0.55
2:C:605:LYS:HG3	2:C:612:VAL:HB	1.88	0.55
2:C:670:GLN:O	2:C:672:VAL:HG12	2.06	0.55
3:D:1305:LEU:HD13	9:D:1836:HOH:O	2.06	0.55
2:C:34:VAL:HG21	2:C:38:LYS:HD3	1.88	0.55
2:C:657:ASP:OD1	2:C:661:SER:HB2	2.06	0.55
3:N:1422:MET:CE	3:N:1427:SER:HA	2.36	0.55
5:F:234:LYS:HG3	5:F:236:SER:H	1.71	0.55
4:E:76:GLY:HA3	4:E:79:LEU:HD12	1.88	0.55
2:M:598:GLU:O	2:M:651:LYS:HG3	2.06	0.55
3:N:1463:LYS:O	3:N:1467:ILE:HG13	2.06	0.55
1:L:58:ILE:HD13	1:L:140:MET:HB3	1.88	0.55
1:K:184:THR:HG23	1:K:192:LEU:HD12	1.87	0.55
2:C:149:THR:HA	9:C:1150:HOH:O	2.05	0.55
3:N:19:ARG:NH2	9:N:1827:HOH:O	2.40	0.55
3:D:421:LEU:HG	3:D:429:SER:HB3	1.87	0.55
1:B:111:ALA:HB2	9:B:460:HOH:O	2.05	0.55
2:C:144:PRO:HA	2:C:163:ILE:CG1	2.37	0.55
2:C:172:ILE:HA	2:C:185:LYS:O	2.07	0.55
2:M:770:GLU:HG3	3:N:65:ARG:HH12	1.70	0.55
2:C:1105:LYS:O	2:C:1107:ASN:N	2.38	0.55
2:C:197:LEU:HD22	2:C:202:TYR:CD2	2.38	0.55
9:D:1806:HOH:O	5:F:309:LYS:HB3	2.07	0.55
3:D:646:LYS:HD3	9:D:1609:HOH:O	2.06	0.55
2:M:654:LEU:HD11	2:M:663:ASN:HD22	1.70	0.55
2:C:22:GLN:HE22	2:C:135:VAL:HG12	1.71	0.55
2:C:1019:GLN:NE2	3:D:621:LYS:HA	2.20	0.55
1:B:59:GLU:HG2	9:B:405:HOH:O	2.05	0.55
2:M:261:ILE:HG21	9:M:2030:HOH:O	2.05	0.55
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:82:LYS:HG2	9:D:1675:HOH:O	2.06	0.55
2:M:578:VAL:HG11	2:M:991:GLN:CB	2.35	0.55
3:N:128:TYR:HB3	3:N:129:PHE:HD1	1.71	0.55
5:F:138:SER:O	5:F:141:VAL:HG12	2.07	0.55
2:C:139:GLN:HG2	2:C:140:ILE:H	1.71	0.55
5:P:317:LEU:O	5:P:329:TYR:HB3	2.07	0.55
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.36	0.55
2:M:641:PRO:O	2:M:642:ARG:HD2	2.07	0.55
1:B:212:ASN:O	1:B:215:VAL:HG22	2.05	0.55
1:L:199:ILE:HD11	1:L:211:LEU:HD13	1.89	0.55
2:M:80:GLN:HB2	9:M:1668:HOH:O	2.07	0.55
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.07	0.55
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.87	0.55
2:C:583:LEU:O	2:C:587:VAL:HG23	2.06	0.55
4:E:86:GLN:O	4:E:90:GLU:HG3	2.06	0.55
3:N:111:LYS:HE3	3:N:1449:GLU:HG2	1.88	0.55
2:M:589:ARG:HD2	9:M:1929:HOH:O	2.05	0.55
2:M:726:ILE:O	2:M:726:ILE:HG22	2.06	0.55
2:M:410:ILE:N	2:M:410:ILE:HD12	2.22	0.55
3:N:703:ASN:HB2	3:N:713:ILE:HG12	1.89	0.55
2:M:877:PRO:HG3	3:N:1020:LEU:HD12	1.89	0.55
3:D:1398:TRP:HB2	9:D:2042:HOH:O	2.07	0.55
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.86	0.55
3:D:16:GLU:HG3	9:D:1656:HOH:O	2.06	0.55
1:K:16:GLN:O	1:K:16:GLN:CG	2.55	0.55
2:M:73:LEU:HD23	2:M:94:LEU:HB2	1.88	0.55
3:N:829:VAL:HG11	9:N:1877:HOH:O	2.07	0.55
2:C:770:GLU:HG3	3:D:65:ARG:HH12	1.70	0.55
2:C:36:PRO:HB3	9:C:1632:HOH:O	2.06	0.55
1:B:65:PHE:HB2	9:B:397:HOH:O	2.05	0.55
3:N:741:ASP:N	3:N:741:ASP:OD2	2.33	0.55
2:M:701:THR:HG23	2:M:832:LYS:HA	1.88	0.55
3:D:187:LYS:HG3	3:D:199:LEU:HB3	1.89	0.55
2:C:318:PRO:HD2	9:C:1596:HOH:O	2.07	0.55
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.19	0.55
2:M:53:PRO:HD3	9:M:1709:HOH:O	2.06	0.55
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.89	0.55
5:F:373:LYS:HG3	9:F:450:HOH:O	2.06	0.55
3:D:1095:THR:CG2	3:D:1230:GLY:HA3	2.36	0.55
2:M:128:ILE:HG22	9:M:1824:HOH:O	2.06	0.55
3:N:586:ARG:HB2	9:N:1869:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.42	0.55
2:M:918:LEU:HD23	2:M:967:PHE:O	2.07	0.55
1:K:74:ASP:O	1:K:78:ILE:HG13	2.06	0.55
2:M:557:ARG:HD2	2:M:879:ARG:HG2	1.89	0.55
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.89	0.55
5:F:256:ARG:HB2	9:F:658:HOH:O	2.07	0.55
2:M:937:ASP:OD2	2:M:939:ARG:HD2	2.06	0.55
2:C:172:ILE:H	2:C:172:ILE:HD12	1.72	0.55
2:M:114:PHE:CD1	2:M:114:PHE:N	2.73	0.55
3:D:1277:ILE:HD11	3:D:1301:LYS:HD2	1.89	0.55
3:N:1312:LEU:HD22	9:N:2126:HOH:O	2.06	0.55
1:K:94:LEU:HD13	9:K:1900:HOH:O	2.06	0.55
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.89	0.55
2:M:580:MET:O	2:M:902:ILE:HA	2.07	0.55
2:C:889:HIS:HE1	3:D:951:ILE:H	1.54	0.55
2:M:346:VAL:O	2:M:350:ARG:HG3	2.07	0.55
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.87	0.55
1:K:176:ARG:O	1:K:200:TRP:HE3	1.88	0.55
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.07	0.55
2:M:1010:THR:HG21	5:P:341:PRO:HB2	1.89	0.55
3:D:924:MET:O	3:D:927:THR:HB	2.06	0.55
3:N:1432:LYS:HG3	3:N:1433:SER:H	1.72	0.55
3:N:126:VAL:O	3:N:132:TYR:HD1	1.90	0.55
3:N:126:VAL:HG11	3:N:152:LEU:HD12	1.88	0.55
2:M:368:THR:HG22	9:M:2230:HOH:O	2.05	0.55
2:M:49:ARG:HA	9:M:1709:HOH:O	2.07	0.55
3:N:843:PHE:CD2	3:N:849:ALA:HA	2.42	0.55
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.32	0.55
3:D:482:LYS:HD2	9:D:2211:HOH:O	2.07	0.55
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.07	0.55
3:N:646:LYS:HD3	9:N:2006:HOH:O	2.06	0.55
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.37	0.55
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.88	0.55
3:D:634:GLY:O	3:D:637:LEU:HB3	2.05	0.55
2:M:86:LYS:HD3	2:M:813:VAL:HG12	1.89	0.55
3:D:1397:LYS:HG2	9:D:1681:HOH:O	2.06	0.55
3:D:111:LYS:HE2	3:D:498:VAL:HG12	1.88	0.55
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.71	0.55
3:D:760:ARG:HD2	4:E:3:GLU:OE2	2.06	0.55
3:N:774:SER:C	3:N:776:GLU:H	2.10	0.55
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1177:ALA:HB3	3:N:1183:ILE:HD11	1.88	0.55
2:C:1054:THR:CG2	2:C:1079:PRO:HB3	2.28	0.55
2:C:2:GLU:HG3	2:C:899:GLN:CB	2.29	0.55
3:N:561:GLY:HA3	5:P:184:ARG:HH22	1.71	0.55
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.22	0.55
1:L:179:PHE:HB2	1:L:195:LEU:HD11	1.88	0.55
3:N:481:MET:HG3	3:N:1388:ARG:NH1	2.22	0.55
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.07	0.55
3:D:890:VAL:HA	9:D:1617:HOH:O	2.07	0.55
2:C:737:LEU:HD12	2:C:754:ILE:HB	1.88	0.55
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.89	0.55
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.06	0.55
2:C:575:GLN:OE1	2:C:670:GLN:HB3	2.07	0.55
3:D:1293:PHE:CE2	3:D:1302:GLU:HB3	2.42	0.55
2:M:137:VAL:CG2	2:M:391:LEU:HG	2.36	0.55
3:D:714:GLN:OE1	3:D:765:SER:HB2	2.07	0.55
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.41	0.55
5:F:172:ARG:O	5:F:176:ILE:HD13	2.07	0.55
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.42	0.55
3:N:576:GLU:HB2	9:N:1886:HOH:O	2.06	0.55
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.69	0.55
3:D:1431:THR:HB	9:D:1537:HOH:O	2.06	0.55
5:P:292:ALA:HB2	9:P:522:HOH:O	2.05	0.55
2:C:56:GLU:OE2	2:C:356:ARG:HG2	2.07	0.55
3:N:561:GLY:HA3	5:P:184:ARG:NH1	2.22	0.55
2:M:770:GLU:HA	9:M:1880:HOH:O	2.06	0.55
5:F:393:THR:HG22	9:F:485:HOH:O	2.07	0.55
1:A:127:LEU:HD12	1:A:127:LEU:C	2.27	0.55
2:C:57:GLU:O	2:C:62:GLY:HA3	2.06	0.55
1:A:132:LEU:HD21	1:A:138:LEU:HB2	1.89	0.55
2:M:632:ASN:N	9:M:1672:HOH:O	2.39	0.55
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.20	0.55
3:D:1090:ASP:HA	3:D:1093:TYR:CB	2.36	0.55
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.40	0.55
3:N:1225:ALA:HB2	9:N:1769:HOH:O	2.06	0.55
4:E:39:VAL:CG2	4:E:72:ARG:HD2	2.36	0.55
3:N:1467:ILE:HG23	7:N:1527:MXP:H16A	1.89	0.54
2:M:1084:SER:HB2	7:N:1527:MXP:O4	2.07	0.54
1:L:105:GLY:O	1:L:132:LEU:HB3	2.07	0.54
3:D:1336:LEU:HB2	3:D:1344:VAL:HG21	1.89	0.54
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:254:VAL:O	2:M:257:VAL:HG23	2.07	0.54
3:D:80:VAL:HG12	3:D:81:THR:O	2.06	0.54
2:C:54:ILE:HD11	2:C:356:ARG:CG	2.35	0.54
3:D:583:ASP:OD1	3:D:586:ARG:HG3	2.07	0.54
2:C:194:VAL:HG21	2:C:221:LEU:O	2.07	0.54
2:C:260:LEU:HG	2:C:261:ILE:HG13	1.89	0.54
3:N:527:MET:HE3	3:N:535:PHE:HB3	1.89	0.54
1:K:24:VAL:HG23	9:K:1055:HOH:O	2.06	0.54
2:M:413:LEU:CD1	2:M:413:LEU:H	2.13	0.54
1:L:175:ARG:O	1:L:176:ARG:HG3	2.07	0.54
5:F:152:ASP:HB3	5:F:153:PRO:HD3	1.87	0.54
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.08	0.54
1:L:52:ALA:HB2	1:L:170:VAL:C	2.28	0.54
2:C:136:ILE:HG22	2:C:336:VAL:HG22	1.89	0.54
3:N:1083:ASP:O	3:N:1087:ARG:HG3	2.07	0.54
1:B:33:GLY:O	1:B:195:LEU:HD22	2.06	0.54
3:D:149:LYS:HD2	9:D:1914:HOH:O	2.07	0.54
2:M:455:LEU:HD12	2:M:456:ALA:O	2.07	0.54
3:D:1382:THR:HG23	9:D:1608:HOH:O	2.07	0.54
2:M:1075:ASP:HA	9:M:2290:HOH:O	2.06	0.54
3:D:1413:THR:HG23	9:D:1816:HOH:O	2.07	0.54
3:D:611:GLN:OE1	7:D:1527:MXP:C16	2.53	0.54
4:O:17:TYR:CD2	4:O:17:TYR:N	2.74	0.54
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.87	0.54
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.89	0.54
2:C:41:ASN:O	2:C:46:ALA:HB2	2.08	0.54
3:D:400:VAL:C	3:D:402:PRO:HD3	2.26	0.54
1:L:85:LEU:HD12	1:L:124:ASN:HB3	1.89	0.54
3:N:679:ARG:HB3	9:N:2172:HOH:O	2.06	0.54
3:N:77:GLY:HA3	9:N:2213:HOH:O	2.07	0.54
5:F:84:TYR:O	5:F:88:ILE:HD12	2.07	0.54
1:A:88:ARG:HG2	1:A:121:GLU:HG2	1.89	0.54
2:C:1056:LYS:HB3	3:D:623:VAL:HG13	1.89	0.54
3:N:1144:LEU:HB3	3:N:1166:LEU:HD11	1.89	0.54
5:F:94:LEU:HD23	9:F:642:HOH:O	2.07	0.54
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.42	0.54
2:C:805:ARG:HD2	9:C:1160:HOH:O	2.07	0.54
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.88	0.54
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.89	0.54
2:C:580:MET:HB3	2:C:584:GLU:CD	2.28	0.54
3:D:675:ARG:HH12	5:F:421:PHE:HD2	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.08	0.54
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.89	0.54
5:P:205:ARG:HD3	5:P:251:ILE:HG21	1.89	0.54
1:A:20:TYR:HD2	1:A:21:GLY:H	1.53	0.54
1:L:158:ILE:HG22	1:L:159:LYS:N	2.21	0.54
2:C:272:ALA:HB1	9:C:1127:HOH:O	2.06	0.54
2:C:724:ARG:HE	2:C:734:LEU:HD23	1.72	0.54
3:D:568:ARG:O	3:D:572:ARG:HG3	2.06	0.54
5:P:358:LEU:O	5:P:358:LEU:HG	2.06	0.54
3:N:1351:GLU:HG3	3:N:1354:LYS:HD2	1.90	0.54
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.89	0.54
3:N:1087:ARG:HD3	3:N:1237:THR:HA	1.90	0.54
3:D:533:GLY:HA3	9:D:1806:HOH:O	2.07	0.54
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.07	0.54
3:D:165:LYS:HG3	3:D:397:LYS:HD3	1.90	0.54
1:B:107:LYS:HG3	1:B:108:GLU:N	2.22	0.54
3:D:675:ARG:HG2	3:D:678:GLU:OE2	2.06	0.54
3:N:820:GLU:HG3	3:N:836:VAL:CG1	2.36	0.54
1:A:57:TYR:CE2	1:A:59:GLU:HA	2.42	0.54
5:F:254:GLN:HA	9:F:443:HOH:O	2.08	0.54
1:L:106:PRO:HG3	1:L:134:GLU:HG2	1.88	0.54
3:D:1286:THR:HG22	9:D:1533:HOH:O	2.07	0.54
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.89	0.54
1:A:213:GLN:O	1:A:217:ILE:HG13	2.07	0.54
2:C:1087:VAL:CG1	3:D:610:LYS:HZ3	2.17	0.54
3:N:1472:ILE:O	3:N:1477:GLY:HA3	2.08	0.54
3:N:610:LYS:C	3:N:611:GLN:HG3	2.28	0.54
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.42	0.54
3:N:566:ILE:HG12	5:P:192:LEU:HD21	1.88	0.54
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.43	0.54
3:N:32:ILE:HD11	9:N:1596:HOH:O	2.06	0.54
3:D:1381:VAL:HB	3:D:1389:LEU:O	2.08	0.54
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.08	0.54
3:N:1041:LEU:CD1	3:N:1058:ARG:HA	2.36	0.54
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.43	0.54
1:B:175:ARG:HA	9:B:492:HOH:O	2.08	0.54
3:D:570:GLU:N	5:F:214:GLN:HE22	2.05	0.54
5:P:88:ILE:HB	9:P:514:HOH:O	2.06	0.54
1:B:211:LEU:O	1:B:214:ALA:HB3	2.07	0.54
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.90	0.54
5:F:305:GLU:O	5:F:309:LYS:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:84:ARG:NH2	2:C:128:ILE:HD11	2.23	0.54
1:A:132:LEU:N	1:A:132:LEU:HD12	2.23	0.54
3:D:1293:PHE:CZ	3:D:1302:GLU:HB3	2.43	0.54
2:M:565:GLN:HG2	2:M:995:MET:CE	2.37	0.54
3:N:1009:LYS:HE2	9:N:1963:HOH:O	2.07	0.54
3:D:711:LEU:C	3:D:713:ILE:H	2.11	0.54
2:C:710:ILE:HD11	2:C:758:ARG:HD3	1.88	0.54
2:C:120:LEU:HD23	9:C:1499:HOH:O	2.06	0.54
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.89	0.54
3:D:72:VAL:HG23	3:D:78:VAL:H	1.71	0.54
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.37	0.54
3:D:118:LEU:O	3:D:120:ALA:N	2.41	0.54
2:M:362:GLY:HA3	2:M:367:LEU:CD2	2.37	0.54
5:F:88:ILE:CB	5:F:193:ARG:HH11	2.20	0.54
3:D:1112:CYS:HA	9:D:2179:HOH:O	2.08	0.54
3:D:41:ARG:HD2	9:D:2449:HOH:O	2.07	0.54
3:D:1045:MET:HG3	3:D:1073:SER:OG	2.07	0.54
2:C:292:ARG:NH1	2:C:299:LYS:HD3	2.22	0.54
3:N:764:LEU:HD23	3:N:767:HIS:CE1	2.42	0.54
3:N:799:LYS:O	3:N:826:PRO:HD2	2.08	0.54
2:M:137:VAL:HG22	2:M:391:LEU:O	2.08	0.54
2:C:17:PRO:HB2	9:C:1289:HOH:O	2.07	0.54
3:N:1080:GLY:O	3:N:1084:THR:HG23	2.07	0.54
3:D:1142:ALA:HB3	9:D:2234:HOH:O	2.06	0.54
2:C:481:ASP:O	2:C:483:VAL:HG23	2.06	0.54
1:B:122:ILE:HG23	9:B:527:HOH:O	2.08	0.54
3:N:493:ARG:HB2	3:N:1388:ARG:NE	2.23	0.54
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.07	0.54
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.71	0.54
2:M:157:ARG:NH1	2:M:314:THR:HB	2.22	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.27	0.54
3:D:534:ARG:HE	5:F:312:GLN:HE22	1.56	0.54
2:C:420:ARG:CZ	2:C:422:ARG:HH21	2.20	0.54
1:B:123:MET:O	1:B:125:PRO:HD3	2.08	0.54
2:C:725:ASP:HA	9:C:1479:HOH:O	2.08	0.54
2:C:398:THR:O	2:C:570:PRO:HD3	2.08	0.54
2:M:252:LYS:HD3	2:M:296:GLY:HA2	1.89	0.54
3:N:172:PRO:HA	9:N:2177:HOH:O	2.06	0.54
1:K:86:VAL:HG13	1:K:124:ASN:HB2	1.89	0.54
2:M:281:LEU:CD1	2:M:306:THR:HA	2.38	0.54
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1466:VAL:HG23	3:D:1472:ILE:CD1	2.33	0.54
3:N:1290:LEU:HD22	3:N:1291:SER:H	1.73	0.54
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.23	0.54
1:L:206:THR:CG2	1:L:209:GLU:H	2.21	0.54
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.21	0.54
2:M:669:GLY:HA3	2:M:995:MET:HA	1.90	0.54
2:M:185:LYS:HB3	2:M:188:LYS:O	2.07	0.54
1:K:111:ALA:HB2	1:K:127:LEU:HG	1.90	0.54
3:N:1005:GLN:HB2	9:N:1763:HOH:O	2.07	0.54
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.08	0.54
1:K:193:ASP:HA	9:K:2597:HOH:O	2.07	0.54
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.90	0.54
3:D:99:ALA:HB1	3:D:575:GLN:CD	2.28	0.54
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.89	0.54
2:M:338:GLU:HA	2:M:341:THR:HG22	1.89	0.54
4:O:46:PRO:CB	4:O:54:LEU:HD22	2.35	0.54
3:N:187:LYS:HG3	3:N:199:LEU:HB3	1.89	0.54
2:M:1034:GLU:OE2	3:N:616:GLN:HG2	2.08	0.54
2:C:334:ARG:NH2	2:C:418:LEU:HD11	2.23	0.54
5:P:142:ARG:CZ	5:P:156:VAL:HG22	2.38	0.54
3:D:1195:GLN:HG3	3:D:1196:THR:N	2.22	0.54
2:M:129:ILE:CG1	2:M:386:PHE:HB3	2.35	0.54
2:C:740:GLU:HB3	9:C:1664:HOH:O	2.08	0.54
2:M:420:ARG:CZ	2:M:422:ARG:HH21	2.20	0.54
1:K:173:PRO:O	1:K:201:THR:HG23	2.08	0.54
3:N:477:LEU:HD23	9:N:1890:HOH:O	2.07	0.54
1:A:101:LEU:HD12	1:A:114:PHE:CD1	2.43	0.54
2:M:841:ASN:HD21	2:M:845:ASN:H	1.56	0.54
4:O:70:THR:HG21	4:O:72:ARG:NE	2.23	0.54
2:M:250:ARG:HG3	9:M:2168:HOH:O	2.06	0.54
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.90	0.54
1:K:184:THR:HG23	1:K:192:LEU:CB	2.36	0.54
3:D:148:GLU:HG2	3:D:151:GLN:HE21	1.73	0.54
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.22	0.54
3:D:119:SER:H	3:D:123:LEU:CD2	2.17	0.54
3:N:1389:LEU:HD22	9:N:1771:HOH:O	2.08	0.54
3:N:187:LYS:CE	3:N:199:LEU:HB3	2.34	0.54
4:E:35:PHE:HZ	4:E:60:ALA:HA	1.73	0.54
2:C:774:LEU:HB2	9:C:1255:HOH:O	2.07	0.54
2:M:1008:ARG:HH11	2:M:1028:GLY:CA	2.20	0.54
3:D:1113:GLY:HA2	9:D:1697:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:800:LYS:HD3	9:N:1722:HOH:O	2.08	0.54
5:F:94:LEU:HB2	5:F:98:GLU:OE2	2.08	0.54
1:L:173:PRO:O	1:L:201:THR:HG23	2.07	0.54
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.08	0.54
2:C:438:ILE:HD11	2:C:467:ILE:HD12	1.89	0.54
4:O:6:ILE:HA	4:O:9:LEU:HD12	1.89	0.54
2:C:130:ASN:HA	9:C:1363:HOH:O	2.07	0.54
2:C:77:PRO:HD3	2:C:93:PRO:HD3	1.89	0.54
2:C:51:THR:HB	2:C:348:LEU:HD23	1.89	0.54
1:B:185:ARG:HD2	9:D:1847:HOH:O	2.08	0.54
2:M:229:MET:HG3	9:M:1707:HOH:O	2.07	0.54
3:D:24:GLY:HA2	9:D:2024:HOH:O	2.07	0.54
3:N:891:GLU:HB2	9:N:2068:HOH:O	2.07	0.54
3:D:52:PRO:HG2	3:D:79:GLU:O	2.08	0.54
3:N:400:VAL:C	3:N:402:PRO:HD3	2.28	0.54
2:C:863:ASP:O	2:C:865:THR:N	2.41	0.54
3:N:1277:ILE:HD11	3:N:1301:LYS:HD2	1.89	0.54
1:K:23:PHE:HE1	1:K:208:LEU:HD13	1.73	0.54
2:M:481:ASP:O	2:M:483:VAL:HG23	2.07	0.54
1:B:83:LYS:O	1:B:170:VAL:HG21	2.08	0.54
2:M:182:VAL:HG11	9:M:2050:HOH:O	2.08	0.54
3:D:169:TYR:HB3	3:D:195:VAL:HG11	1.89	0.54
2:M:137:VAL:O	2:M:391:LEU:HD21	2.08	0.54
3:D:1176:LYS:O	3:D:1179:GLU:HB2	2.08	0.54
5:F:301:ALA:HB2	9:F:602:HOH:O	2.08	0.54
2:C:650:ARG:HG3	9:C:1791:HOH:O	2.08	0.54
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.08	0.54
2:C:602:GLU:HA	2:C:647:GLN:O	2.07	0.54
2:M:216:GLU:HB3	9:M:1627:HOH:O	2.08	0.54
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.73	0.53
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.43	0.53
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.73	0.53
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.89	0.53
3:N:81:THR:O	3:N:82:LYS:O	2.26	0.53
2:C:860:HIS:HE1	9:C:1431:HOH:O	1.91	0.53
3:D:1485:GLN:O	4:E:75:PHE:HA	2.08	0.53
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.72	0.53
1:K:123:MET:C	1:K:125:PRO:HD3	2.29	0.53
3:D:1213:ARG:HG3	9:D:2053:HOH:O	2.06	0.53
2:M:315:ALA:HB3	9:M:1882:HOH:O	2.08	0.53
5:F:399:GLN:HG3	9:F:571:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.88	0.53
3:D:820:GLU:HG2	3:D:825:ALA:O	2.08	0.53
2:M:689:VAL:HB	2:M:870:ILE:HG13	1.89	0.53
3:N:610:LYS:CG	7:N:1527:MXP:C15	2.85	0.53
1:L:68:ILE:HG23	1:L:137:ARG:NH1	2.24	0.53
2:M:685:GLU:CG	3:N:783:ARG:HD2	2.38	0.53
2:M:911:GLU:O	2:M:914:ILE:HG22	2.08	0.53
5:F:271:LEU:HG	5:F:295:MET:CE	2.37	0.53
2:M:41:ASN:O	2:M:46:ALA:HB2	2.09	0.53
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.07	0.53
3:N:615:ARG:O	3:N:616:GLN:C	2.46	0.53
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.90	0.53
2:M:89:THR:HA	2:M:129:ILE:O	2.08	0.53
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.23	0.53
5:P:234:LYS:HG3	5:P:236:SER:H	1.74	0.53
3:D:161:LEU:HD23	3:D:161:LEU:O	2.08	0.53
1:B:106:PRO:HG2	9:B:483:HOH:O	2.07	0.53
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.90	0.53
1:L:212:ASN:O	1:L:215:VAL:HG22	2.07	0.53
1:L:14:ARG:HA	9:L:3344:HOH:O	2.07	0.53
3:N:1049:SER:OG	3:N:1051:GLU:HG3	2.08	0.53
4:E:49:GLN:HG2	9:E:108:HOH:O	2.09	0.53
3:N:983:LEU:HD13	3:N:991:GLN:OE1	2.08	0.53
2:M:411:SER:HA	2:M:452:ILE:HA	1.90	0.53
3:D:139:GLY:O	3:D:147:VAL:HB	2.08	0.53
3:N:1209:LEU:HD23	3:N:1211:MET:HG3	1.90	0.53
3:N:407:VAL:HG13	3:N:421:LEU:O	2.09	0.53
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.16	0.53
2:C:254:VAL:O	2:C:257:VAL:HG23	2.09	0.53
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.90	0.53
2:M:673:LEU:HD22	2:M:867:VAL:HA	1.90	0.53
3:D:1273:VAL:HG13	9:D:2190:HOH:O	2.08	0.53
1:L:83:LYS:O	1:L:170:VAL:HG21	2.07	0.53
2:C:736:ASP:C	2:C:738:ASP:H	2.12	0.53
3:D:454:ALA:HB3	9:D:2225:HOH:O	2.08	0.53
1:B:44:LEU:HD21	1:B:199:ILE:HD13	1.89	0.53
3:D:764:LEU:HD23	3:D:767:HIS:ND1	2.24	0.53
4:E:19:LEU:HB3	9:E:116:HOH:O	2.08	0.53
2:M:1103:ASP:OD1	3:N:3:LYS:HB2	2.09	0.53
3:N:1395:LEU:HD21	9:N:1988:HOH:O	2.08	0.53
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:95:THR:HG22	5:F:96:LEU:HD23	1.90	0.53
2:M:766:GLU:HG2	2:M:772:ARG:HH12	1.73	0.53
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.91	0.53
3:D:959:GLU:O	3:D:963:TYR:HD1	1.91	0.53
1:K:126:ASP:HB2	9:K:1975:HOH:O	2.06	0.53
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.08	0.53
3:N:1466:VAL:HG11	7:N:1527:MXP:H20	1.90	0.53
3:N:612:GLY:HA2	3:N:1441:GLN:HA	1.90	0.53
2:M:52:PHE:O	2:M:54:ILE:N	2.41	0.53
3:D:408:GLU:O	3:D:408:GLU:HG2	2.07	0.53
3:N:527:MET:CE	5:P:258:ILE:HD11	2.39	0.53
2:M:571:LEU:HD23	2:M:699:PHE:O	2.09	0.53
2:M:611:ILE:CD1	2:M:625:LEU:HD11	2.38	0.53
5:P:130:VAL:HA	5:P:142:ARG:HH21	1.73	0.53
3:D:1258:ARG:HG3	3:D:1262:LEU:HD13	1.89	0.53
2:M:227:PHE:HA	2:M:237:ARG:NH1	2.23	0.53
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.90	0.53
2:M:584:GLU:H	2:M:584:GLU:CD	2.10	0.53
4:E:29:GLN:HB2	4:E:33:HIS:CD2	2.43	0.53
3:D:1264:GLU:O	3:D:1266:ARG:HG3	2.07	0.53
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.38	0.53
2:M:632:ASN:HB2	9:M:1672:HOH:O	2.09	0.53
5:F:345:ALA:HB1	9:F:710:HOH:O	2.08	0.53
5:F:162:LYS:HE2	9:F:641:HOH:O	2.08	0.53
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.08	0.53
3:D:662:GLU:HB2	9:D:1987:HOH:O	2.09	0.53
2:M:604:ALA:HB3	2:M:612:VAL:O	2.08	0.53
3:N:17:LYS:HA	3:N:20:SER:HB3	1.91	0.53
1:K:63:HIS:HB3	2:M:746:GLY:HA2	1.89	0.53
2:M:877:PRO:HG2	3:N:1023:MET:CE	2.18	0.53
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.73	0.53
2:C:378:LEU:HG	2:C:382:ILE:HD11	1.90	0.53
2:M:328:LEU:HD21	2:M:438:ILE:HD11	1.90	0.53
3:N:448:GLU:HG2	3:N:448:GLU:O	2.08	0.53
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	1.90	0.53
3:D:1105:ILE:HD13	9:D:2099:HOH:O	2.09	0.53
3:D:1390:LEU:HA	9:D:2323:HOH:O	2.08	0.53
5:F:130:VAL:HG11	5:F:159:ILE:HB	1.90	0.53
3:D:800:LYS:CE	3:D:804:LEU:HD13	2.39	0.53
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.38	0.53
2:M:806:LEU:HD22	9:M:1891:HOH:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:385:PHE:O	2:C:389:SER:HB3	2.08	0.53
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.08	0.53
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.91	0.53
2:C:4:LYS:O	2:C:901:TYR:HB3	2.08	0.53
2:C:765:SER:O	2:C:767:PRO:HD3	2.09	0.53
1:B:140:MET:HB2	9:B:514:HOH:O	2.08	0.53
3:N:1236:LEU:HA	3:N:1359:GLN:NE2	2.24	0.53
2:C:1008:ARG:HH11	2:C:1028:GLY:CA	2.18	0.53
2:C:496:ILE:O	2:C:515:ALA:HB1	2.09	0.53
3:N:55:ASP:O	3:N:80:VAL:HG11	2.08	0.53
2:C:185:LYS:HB3	2:C:188:LYS:O	2.07	0.53
2:C:267:TYR:CD1	2:C:272:ALA:HB1	2.43	0.53
3:N:792:ILE:O	3:N:878:GLY:HA3	2.09	0.53
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.91	0.53
1:K:20:TYR:CD2	1:K:21:GLY:N	2.69	0.53
3:D:1485:GLN:NE2	4:E:80:VAL:H	2.07	0.53
3:D:493:ARG:HA	3:D:1388:ARG:NH1	2.24	0.53
3:D:799:LYS:HB3	3:D:826:PRO:CG	2.37	0.53
5:F:415:THR:HB	9:F:522:HOH:O	2.09	0.53
3:N:169:TYR:CE1	3:N:197:SER:HB2	2.44	0.53
1:K:45:LEU:HD21	9:K:2558:HOH:O	2.08	0.53
5:P:94:LEU:HD23	9:P:638:HOH:O	2.09	0.53
4:O:39:VAL:CG2	4:O:72:ARG:HD2	2.39	0.53
3:N:138:LYS:HD3	9:N:1530:HOH:O	2.08	0.53
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.33	0.53
3:D:615:ARG:O	3:D:616:GLN:C	2.44	0.53
1:L:60:ASP:H	1:L:137:ARG:NH2	2.06	0.53
2:M:874:LEU:HD23	3:N:1023:MET:CE	2.37	0.53
2:C:403:SER:O	2:C:407:LYS:HG3	2.09	0.53
2:M:915:LYS:HB3	9:M:2164:HOH:O	2.09	0.53
3:N:160:GLU:HG2	9:N:2310:HOH:O	2.09	0.53
2:M:328:LEU:HD21	2:M:438:ILE:CD1	2.38	0.53
3:D:113:GLY:HA3	3:D:120:ALA:HA	1.91	0.53
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.33	0.53
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.89	0.53
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.90	0.53
3:N:860:LEU:O	3:N:877:PRO:HD2	2.07	0.53
9:C:1255:HOH:O	5:F:354:LEU:HD21	2.08	0.53
3:D:493:ARG:HB2	3:D:1388:ARG:CZ	2.39	0.53
3:D:1113:GLY:N	3:D:1195:GLN:HE22	2.07	0.53
3:N:1323:GLN:HG3	3:N:1324:PRO:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.91	0.53
5:P:368:VAL:O	5:P:372:ARG:HB2	2.09	0.53
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.73	0.53
3:N:1087:ARG:HD3	3:N:1238:MET:N	2.23	0.53
3:D:996:TRP:HA	3:D:999:THR:HG22	1.89	0.53
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.43	0.53
3:N:1141:GLU:CG	3:N:1168:MET:HE1	2.39	0.53
2:M:410:ILE:HD12	2:M:410:ILE:H	1.73	0.53
3:D:1274:ILE:HD11	3:D:1334:GLN:NE2	2.24	0.53
3:D:1274:ILE:HD12	9:D:1674:HOH:O	2.08	0.53
3:D:591:VAL:HB	9:D:1809:HOH:O	2.08	0.53
3:D:52:PRO:CB	3:D:80:VAL:HG13	2.39	0.53
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.24	0.53
2:M:54:ILE:HG23	2:M:54:ILE:O	2.09	0.53
4:E:31:LEU:HD23	4:E:35:PHE:HE1	1.73	0.53
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.89	0.53
2:C:496:ILE:HD12	2:C:496:ILE:H	1.74	0.53
3:N:1066:THR:HA	9:N:1984:HOH:O	2.09	0.53
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.39	0.53
3:N:692:GLU:HG3	3:N:720:LEU:HD13	1.91	0.53
3:N:1377:LYS:O	3:N:1395:LEU:N	2.37	0.53
3:D:631:ILE:HG21	3:D:745:MET:SD	2.49	0.53
3:N:1422:MET:HE3	3:N:1427:SER:HA	1.89	0.53
3:N:503:LEU:HD22	9:N:2051:HOH:O	2.09	0.53
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.39	0.53
3:N:1462:LEU:N	3:N:1462:LEU:HD23	2.23	0.53
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.91	0.53
2:M:162:ILE:O	2:M:164:PRO:HD3	2.09	0.53
3:D:53:ILE:HG22	9:D:1900:HOH:O	2.08	0.53
2:M:64:LEU:HD11	2:M:100:LEU:HD13	1.90	0.53
3:N:407:VAL:HG13	3:N:422:ALA:HB2	1.91	0.53
3:D:1220:ALA:HB1	3:D:1223:ILE:CD1	2.36	0.53
3:N:1114:THR:O	3:N:1114:THR:HG23	2.09	0.53
1:K:133:GLU:HG2	1:K:134:GLU:H	1.72	0.53
2:M:737:LEU:HD12	2:M:754:ILE:HB	1.91	0.53
5:F:321:ILE:O	5:F:327:SER:HB3	2.08	0.53
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.12	0.53
2:C:984:GLU:OE1	3:D:945:SER:HA	2.09	0.53
2:C:535:SER:HB2	2:C:537:LYS:HG3	1.91	0.53
3:N:591:VAL:HG11	3:N:597:ASP:HA	1.91	0.53
2:M:753:ASP:O	2:M:792:VAL:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1492:LEU:HD12	9:D:2354:HOH:O	2.09	0.53
1:L:65:PHE:HB2	9:L:1134:HOH:O	2.08	0.53
2:M:290:LEU:HD11	9:M:1886:HOH:O	2.09	0.53
2:M:143:SER:HB2	2:M:276:LYS:HZ3	1.74	0.53
5:P:127:ILE:HD11	9:P:595:HOH:O	2.08	0.53
3:N:81:THR:HG23	9:N:1885:HOH:O	2.09	0.53
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.42	0.53
1:K:23:PHE:O	1:K:196:THR:HA	2.09	0.53
2:M:413:LEU:N	2:M:413:LEU:HD12	2.21	0.53
2:C:1101:THR:OG1	2:C:1109:VAL:HG12	2.09	0.53
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.24	0.53
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.91	0.53
3:D:760:ARG:NH2	4:E:62:THR:N	2.57	0.53
2:C:495:THR:HB	2:C:530:GLU:HG3	1.91	0.53
2:M:109:LYS:HE2	2:M:111:ASP:OD1	2.09	0.53
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.43	0.53
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.09	0.53
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.44	0.52
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.91	0.52
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.90	0.52
2:C:110:GLU:H	2:C:368:THR:HG21	1.74	0.52
2:C:52:PHE:O	2:C:54:ILE:N	2.42	0.52
3:D:407:VAL:HG13	3:D:421:LEU:O	2.09	0.52
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.23	0.52
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.44	0.52
2:C:162:ILE:HD11	2:C:306:THR:HG21	1.90	0.52
1:B:218:LEU:O	1:B:222:LEU:HG	2.08	0.52
5:F:282:LEU:HD13	9:F:621:HOH:O	2.08	0.52
3:D:570:GLU:HB2	5:F:214:GLN:OE1	2.08	0.52
3:N:1243:THR:HG1	3:N:1253:THR:HB	1.73	0.52
2:C:818:GLY:HA2	5:F:309:LYS:HZ3	1.74	0.52
3:N:826:PRO:HB3	9:N:1811:HOH:O	2.08	0.52
5:P:369:LEU:O	5:P:373:LYS:HB2	2.09	0.52
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.24	0.52
3:N:567:ILE:N	3:N:567:ILE:HD12	2.24	0.52
4:E:8:LYS:HG3	9:E:100:HOH:O	2.09	0.52
3:N:984:THR:HG21	9:N:1536:HOH:O	2.09	0.52
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.09	0.52
1:A:181:VAL:HG11	9:A:337:HOH:O	2.10	0.52
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.44	0.52
3:N:611:GLN:OE1	3:N:619:LEU:HD21	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1005:MET:O	2:M:1005:MET:HG3	2.09	0.52
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.90	0.52
2:C:166:PRO:HD3	2:C:265:ARG:HB2	1.91	0.52
3:N:32:ILE:O	5:P:258:ILE:HG23	2.09	0.52
2:C:772:ARG:HB3	9:F:459:HOH:O	2.09	0.52
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.43	0.52
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.90	0.52
3:N:141:ILE:HG13	3:N:142:LEU:N	2.24	0.52
1:B:197:LEU:HD21	1:B:199:ILE:HD11	1.91	0.52
1:B:23:PHE:CE2	1:B:199:ILE:HD12	2.44	0.52
2:C:739:GLU:HA	9:C:1304:HOH:O	2.09	0.52
2:M:176:VAL:C	2:M:178:PRO:HD3	2.29	0.52
3:N:104:PHE:HE2	3:N:1448:THR:HA	1.73	0.52
5:P:220:LEU:HD12	5:P:243:ILE:HD11	1.92	0.52
3:D:102:ILE:HG13	9:D:1613:HOH:O	2.09	0.52
3:D:62:LYS:HD2	9:D:1735:HOH:O	2.08	0.52
3:N:892:ASP:OD2	3:N:895:VAL:HG21	2.09	0.52
1:A:211:LEU:O	1:A:214:ALA:HB3	2.09	0.52
2:M:602:GLU:HA	2:M:647:GLN:O	2.09	0.52
5:F:102:LEU:O	5:F:106:VAL:HG23	2.09	0.52
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.92	0.52
2:C:404:LEU:HA	2:C:407:LYS:HD2	1.91	0.52
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.09	0.52
2:C:6:PHE:N	2:C:6:PHE:CD1	2.77	0.52
2:C:368:THR:HB	2:C:369:PRO:HD3	1.90	0.52
3:N:153:LEU:CD1	3:N:157:GLU:HB2	2.39	0.52
3:N:408:GLU:HA	5:P:171:LYS:NZ	2.23	0.52
2:M:626:ARG:H	2:M:639:GLN:NE2	2.06	0.52
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.90	0.52
5:F:393:THR:O	5:F:397:ILE:HG13	2.09	0.52
3:N:584:ASN:HD21	3:N:590:PRO:HD2	1.72	0.52
5:P:392:VAL:HG11	5:P:396:ARG:HD2	1.91	0.52
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.24	0.52
5:F:371:LEU:HB2	5:F:372:ARG:HH11	1.74	0.52
3:N:498:VAL:HG23	3:N:499:VAL:N	2.24	0.52
1:K:149:GLY:O	1:K:171:PHE:HB2	2.10	0.52
3:N:1305:LEU:HD22	3:N:1309:ALA:HB1	1.91	0.52
3:N:163:TYR:HB3	9:N:2151:HOH:O	2.10	0.52
3:N:1205:TYR:HE1	3:N:1221:VAL:HG13	1.73	0.52
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.92	0.52
3:N:408:GLU:HB3	9:N:1846:HOH:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:115:LYS:O	5:P:119:ILE:HG13	2.08	0.52
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.45	0.52
2:C:442:GLU:HB3	9:C:1185:HOH:O	2.08	0.52
5:P:141:VAL:O	5:P:145:PRO:HD2	2.09	0.52
3:D:114:THR:O	3:D:495:ARG:HG3	2.09	0.52
2:C:643:VAL:HB	9:C:1145:HOH:O	2.09	0.52
3:N:661:MET:O	3:N:664:LYS:O	2.26	0.52
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.91	0.52
1:L:45:LEU:HD21	1:L:177:VAL:HG13	1.91	0.52
3:D:710:ARG:HH21	3:D:1210:SER:CB	2.22	0.52
1:K:127:LEU:HD12	1:K:127:LEU:C	2.30	0.52
2:M:605:LYS:HG3	2:M:612:VAL:HB	1.92	0.52
3:D:591:VAL:HG11	3:D:597:ASP:HA	1.92	0.52
3:D:892:ASP:OD2	3:D:895:VAL:HG21	2.09	0.52
3:N:1076:GLY:O	3:N:1079:LYS:HG2	2.09	0.52
3:N:534:ARG:HG3	5:P:312:GLN:NE2	2.24	0.52
3:N:1182:GLU:HG3	9:N:1552:HOH:O	2.08	0.52
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.91	0.52
2:C:480:THR:HG22	2:C:482:GLU:H	1.74	0.52
2:M:139:GLN:HE22	2:M:415:PRO:HD2	1.74	0.52
3:D:403:PHE:CZ	3:D:407:VAL:HG23	2.44	0.52
5:F:181:GLU:O	5:F:184:ARG:HB3	2.10	0.52
4:O:63:TRP:O	4:O:67:GLU:HG3	2.09	0.52
4:E:54:LEU:O	4:E:54:LEU:HD23	2.09	0.52
2:C:142:ARG:HH21	2:C:325:ILE:HD11	1.72	0.52
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.90	0.52
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.91	0.52
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.52
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.38	0.52
1:K:206:THR:HG22	1:K:209:GLU:CG	2.36	0.52
5:P:152:ASP:HB3	5:P:153:PRO:HD3	1.92	0.52
2:M:131:GLY:N	9:M:1824:HOH:O	2.43	0.52
3:D:1189:ARG:NH1	3:D:1203:LYS:HB2	2.24	0.52
3:D:853:VAL:HA	3:D:858:VAL:O	2.10	0.52
5:P:306:GLU:HG3	9:P:674:HOH:O	2.10	0.52
5:P:363:GLU:HA	5:P:367:MET:HG3	1.91	0.52
5:F:338:LEU:HD12	9:F:562:HOH:O	2.09	0.52
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.39	0.52
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.22	0.52
3:N:169:TYR:HB3	3:N:195:VAL:HG11	1.91	0.52
3:D:1284:GLU:HG3	9:D:1992:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:252:LYS:HD3	2:C:296:GLY:HA2	1.91	0.52
1:B:198:ARG:HD2	9:B:489:HOH:O	2.09	0.52
2:M:765:SER:O	2:M:767:PRO:HD3	2.10	0.52
3:D:720:LEU:H	3:D:720:LEU:HD12	1.73	0.52
1:B:71:VAL:HG22	1:B:132:LEU:CD1	2.39	0.52
3:N:1097:LYS:O	3:N:1101:VAL:HG23	2.09	0.52
4:E:94:PRO:HA	9:E:126:HOH:O	2.08	0.52
3:D:116:LEU:HD21	3:D:464:LEU:CB	2.38	0.52
3:N:400:VAL:HG22	3:N:443:VAL:CG2	2.31	0.52
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.92	0.52
2:C:145:GLY:H	2:C:163:ILE:HG12	1.72	0.52
2:M:670:GLN:O	2:M:672:VAL:HG12	2.10	0.52
3:D:447:VAL:HA	9:D:2047:HOH:O	2.09	0.52
3:N:1041:LEU:HD12	3:N:1058:ARG:CA	2.38	0.52
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.40	0.52
1:K:90:LEU:HD11	9:K:1139:HOH:O	2.09	0.52
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.40	0.52
3:N:710:ARG:NH2	3:N:1210:SER:OG	2.43	0.52
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.10	0.52
5:P:393:THR:HG22	5:P:394:ARG:H	1.75	0.52
3:D:715:ALA:O	3:D:764:LEU:HD12	2.08	0.52
3:D:567:ILE:HD12	3:D:567:ILE:N	2.24	0.52
3:D:1394:VAL:HG21	9:D:2203:HOH:O	2.08	0.52
3:N:504:ASP:HB3	9:N:2286:HOH:O	2.08	0.52
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.40	0.52
3:D:774:SER:C	3:D:776:GLU:H	2.13	0.52
3:N:875:THR:HG22	3:N:879:ARG:HB2	1.92	0.52
1:B:62:LEU:H	1:B:62:LEU:HD12	1.74	0.52
1:B:156:HIS:CG	1:B:157:GLY:H	2.27	0.52
3:D:1503:VAL:HG13	9:D:1882:HOH:O	2.09	0.52
2:C:1059:ASP:OD1	2:C:1080:SER:HB3	2.10	0.52
3:N:1019:PRO:O	3:N:1023:MET:HG2	2.10	0.52
2:C:408:ARG:HH21	2:C:542:VAL:CG2	2.23	0.52
9:C:1344:HOH:O	3:D:603:LEU:HB3	2.09	0.52
5:P:288:TYR:HA	5:P:291:ILE:HG22	1.91	0.52
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.91	0.52
5:P:181:GLU:O	5:P:184:ARG:HB3	2.10	0.52
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.91	0.52
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.40	0.52
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.40	0.52
2:C:697:ARG:HD2	2:C:699:PHE:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:926:PHE:O	2:M:930:LYS:HG3	2.10	0.52
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.45	0.52
3:N:947:ILE:HD12	3:N:947:ILE:O	2.09	0.52
3:D:1101:VAL:HG21	3:D:1424:VAL:CG2	2.31	0.52
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.91	0.52
2:C:367:LEU:HD13	9:C:1770:HOH:O	2.10	0.52
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.39	0.52
2:M:165:LEU:O	2:M:265:ARG:HD2	2.10	0.52
2:C:196:LEU:O	2:C:199:VAL:HB	2.10	0.52
4:E:54:LEU:HD23	4:E:58:PRO:HD2	1.91	0.52
3:N:408:GLU:HG2	3:N:408:GLU:O	2.10	0.52
2:C:878:SER:HB3	3:D:1029:ARG:HH11	1.74	0.52
2:M:773:LEU:O	2:M:777:ILE:HG13	2.10	0.52
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.24	0.52
5:F:151:LEU:HD21	9:F:675:HOH:O	2.08	0.52
2:C:338:GLU:O	2:C:341:THR:HG22	2.10	0.52
2:C:713:ARG:HH12	3:D:531:ASP:CG	2.14	0.52
2:M:79:PRO:HA	9:M:2242:HOH:O	2.09	0.52
5:P:358:LEU:CD2	5:P:370:LYS:HZ2	2.23	0.52
2:C:435:TYR:C	2:C:437:ARG:H	2.13	0.52
3:D:1321:ALA:O	3:D:1339:LYS:HG3	2.10	0.52
2:C:966:LEU:HD11	2:C:986:PRO:HG2	1.91	0.52
5:P:191:ASN:HB3	5:P:220:LEU:HD11	1.90	0.52
2:C:722:ILE:HG13	2:C:757:GLY:O	2.10	0.52
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.45	0.52
2:M:402:SER:OG	2:M:566:THR:HG22	2.09	0.52
1:B:5:LYS:O	1:B:8:ALA:HB2	2.09	0.52
2:C:209:ARG:O	2:C:213:ALA:HB2	2.10	0.52
3:D:77:GLY:O	3:D:78:VAL:HG23	2.10	0.52
2:M:807:ARG:HD3	9:M:1889:HOH:O	2.09	0.52
2:M:911:GLU:O	2:M:915:LYS:HG2	2.10	0.52
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.92	0.52
1:A:107:LYS:HE3	1:A:113:ASP:OD2	2.10	0.52
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.40	0.52
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.24	0.52
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.92	0.52
2:C:281:LEU:CD1	2:C:306:THR:HA	2.40	0.52
2:M:770:GLU:CG	3:N:65:ARG:HH12	2.23	0.52
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.40	0.52
2:C:971:LYS:HE2	9:C:1494:HOH:O	2.09	0.52
3:D:863:VAL:HG12	9:D:1596:HOH:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:385:PHE:O	2:M:389:SER:HB3	2.10	0.52
5:P:279:GLN:HA	9:P:477:HOH:O	2.10	0.52
2:M:926:PHE:CD1	2:M:929:ARG:HD3	2.44	0.52
3:D:697:GLY:C	9:D:1581:HOH:O	2.48	0.52
1:A:55:SER:CB	1:A:158:ILE:HG21	2.40	0.52
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.91	0.52
3:N:1487:VAL:HG13	3:N:1491:THR:HB	1.91	0.52
3:D:551:ASN:O	3:D:555:LYS:HG3	2.09	0.52
1:B:19:GLU:O	1:B:200:TRP:HA	2.10	0.52
2:M:197:LEU:HD22	2:M:202:TYR:CD2	2.43	0.52
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.91	0.52
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.91	0.52
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.39	0.52
3:D:1481:VAL:CG1	4:E:18:ARG:HG3	2.40	0.52
3:D:162:ARG:HA	3:D:449:SER:HB3	1.91	0.52
2:M:676:ILE:O	3:N:948:THR:HB	2.09	0.52
1:K:146:ARG:HD2	9:K:2782:HOH:O	2.10	0.52
5:F:163:LEU:HB3	5:F:174:LEU:HD13	1.92	0.52
3:D:864:VAL:HG12	3:D:865:THR:H	1.73	0.52
2:M:42:VAL:HG12	2:M:43:GLY:N	2.25	0.52
3:N:631:ILE:HG12	3:N:743:ASP:O	2.10	0.52
3:D:567:ILE:H	3:D:567:ILE:HD12	1.75	0.52
2:C:70:GLU:HB3	9:C:1236:HOH:O	2.09	0.52
2:M:816:LYS:HE2	2:M:819:VAL:HG21	1.92	0.52
3:N:988:ARG:O	3:N:992:ILE:HG13	2.10	0.52
3:D:675:ARG:O	3:D:678:GLU:HG2	2.10	0.52
3:N:711:LEU:C	3:N:713:ILE:H	2.12	0.52
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.45	0.52
1:A:44:LEU:HB3	1:A:177:VAL:HG21	1.91	0.52
3:N:957:PRO:HD2	3:N:1007:VAL:HG12	1.91	0.51
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.72	0.51
5:F:88:ILE:CG1	5:F:193:ARG:HB2	2.41	0.51
3:D:1494:ALA:HB1	9:E:137:HOH:O	2.10	0.51
3:D:1059:SER:OG	3:D:1065:LEU:HA	2.11	0.51
3:N:1485:GLN:NE2	4:O:80:VAL:H	2.08	0.51
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.92	0.51
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.93	0.51
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.10	0.51
3:N:551:ASN:O	3:N:555:LYS:HG3	2.10	0.51
1:L:117:VAL:HA	9:L:1875:HOH:O	2.10	0.51
2:C:815:LEU:HG	2:C:819:VAL:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.39	0.51
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.45	0.51
3:N:534:ARG:HG3	5:P:312:GLN:HE22	1.74	0.51
5:P:336:GLU:HG3	9:P:629:HOH:O	2.09	0.51
1:A:5:LYS:O	1:A:8:ALA:HB2	2.08	0.51
1:L:156:HIS:CG	1:L:157:GLY:H	2.28	0.51
2:C:59:LYS:HB2	9:C:1378:HOH:O	2.08	0.51
4:O:51:LEU:HB2	9:O:1054:HOH:O	2.09	0.51
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.10	0.51
1:K:57:TYR:O	1:K:140:MET:HA	2.10	0.51
2:C:918:LEU:HD23	2:C:967:PHE:O	2.09	0.51
2:M:260:LEU:HD22	9:M:2052:HOH:O	2.10	0.51
5:P:189:GLU:HA	5:P:192:LEU:HD12	1.90	0.51
3:N:192:ALA:HB2	3:N:393:ILE:HD11	1.92	0.51
3:D:126:VAL:HG11	3:D:152:LEU:HD12	1.92	0.51
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.91	0.51
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.40	0.51
2:M:464:LEU:HD12	2:M:465:GLY:N	2.25	0.51
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.92	0.51
1:K:69:PRO:C	1:K:71:VAL:H	2.13	0.51
3:N:428:LYS:HE2	9:N:1658:HOH:O	2.11	0.51
3:D:133:ILE:HG22	3:D:455:ARG:C	2.31	0.51
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.92	0.51
9:D:2077:HOH:O	5:F:349:LEU:HD22	2.10	0.51
2:M:498:GLN:HE21	2:M:498:GLN:HA	1.74	0.51
9:K:1749:HOH:O	2:M:929:ARG:HG3	2.08	0.51
3:D:1385:GLY:CA	3:D:1413:THR:HG21	2.39	0.51
3:N:833:GLU:HG2	9:N:2184:HOH:O	2.08	0.51
3:D:840:LYS:HB3	3:D:841:TYR:CD2	2.46	0.51
3:D:1118:ILE:HG23	9:D:1773:HOH:O	2.09	0.51
1:L:57:TYR:CZ	1:L:161:ARG:HD3	2.45	0.51
1:A:42:ARG:HH21	2:C:857:ASP:HB3	1.75	0.51
3:D:187:LYS:HG3	3:D:199:LEU:CD2	2.40	0.51
2:C:2:GLU:CG	2:C:899:GLN:HB3	2.28	0.51
3:N:398:ALA:HB1	3:N:446:VAL:O	2.10	0.51
1:L:196:THR:HG22	9:L:1676:HOH:O	2.10	0.51
2:C:141:HIS:O	2:C:331:ARG:HA	2.10	0.51
3:N:39:PRO:HB3	3:N:45:PHE:C	2.31	0.51
3:N:31:THR:HG23	3:N:45:PHE:HE2	1.75	0.51
3:N:861:GLN:HG2	9:N:2139:HOH:O	2.09	0.51
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:130:VAL:HA	5:F:142:ARG:NH2	2.26	0.51
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.92	0.51
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.24	0.51
3:N:1342:GLU:HB3	9:N:2128:HOH:O	2.10	0.51
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.92	0.51
2:M:489:THR:HG21	9:M:2237:HOH:O	2.09	0.51
3:N:1264:GLU:HG2	3:N:1425:THR:HG22	1.92	0.51
2:M:218:VAL:HG12	9:M:1965:HOH:O	2.11	0.51
2:M:264:PRO:HB2	9:M:1685:HOH:O	2.11	0.51
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.40	0.51
2:M:141:HIS:CB	2:M:418:LEU:HG	2.40	0.51
5:P:416:ARG:HD3	5:P:419:ARG:HD3	1.92	0.51
3:D:398:ALA:HB1	3:D:446:VAL:O	2.10	0.51
4:E:60:ALA:O	4:E:63:TRP:HB2	2.10	0.51
2:C:211:LEU:HD11	2:C:308:ARG:HA	1.93	0.51
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.92	0.51
3:N:1485:GLN:O	4:O:75:PHE:HA	2.11	0.51
2:M:191:PHE:CZ	2:M:238:LEU:HD11	2.45	0.51
3:D:879:ARG:HD3	3:D:902:LEU:O	2.10	0.51
2:C:987:ILE:HG12	3:D:948:THR:HG21	1.91	0.51
2:C:633:GLN:HG3	9:C:1153:HOH:O	2.09	0.51
2:C:810:ASP:N	2:C:811:PRO:HD3	2.25	0.51
4:E:33:HIS:CB	4:E:37:ASN:HD21	2.21	0.51
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.45	0.51
2:M:561:GLY:HA3	2:M:842:ARG:O	2.11	0.51
3:N:111:LYS:HE2	3:N:498:VAL:HG12	1.92	0.51
3:D:1341:PRO:O	3:D:1345:GLU:HB2	2.10	0.51
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.76	0.51
3:D:1115:THR:HG21	9:D:2063:HOH:O	2.10	0.51
3:D:1306:PRO:HG3	9:D:1723:HOH:O	2.10	0.51
3:D:137:PRO:N	9:D:1592:HOH:O	2.43	0.51
2:M:685:GLU:HG3	3:N:783:ARG:HD2	1.92	0.51
2:M:313:LEU:O	2:M:313:LEU:HD12	2.10	0.51
3:D:26:VAL:HG23	9:D:2241:HOH:O	2.10	0.51
2:C:257:VAL:HG21	9:C:1517:HOH:O	2.11	0.51
2:C:874:LEU:HD23	3:D:1023:MET:CE	2.41	0.51
2:C:876:VAL:O	2:C:879:ARG:O	2.29	0.51
2:C:114:PHE:CD1	2:C:114:PHE:N	2.77	0.51
3:N:65:ARG:CG	3:N:66:GLN:N	2.73	0.51
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.40	0.51
2:C:1105:LYS:HG3	2:C:1105:LYS:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1109:VAL:HG21	3:D:3:LYS:O	2.11	0.51
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.26	0.51
1:A:198:ARG:C	1:A:199:ILE:HD12	2.29	0.51
1:A:19:GLU:O	1:A:200:TRP:HA	2.10	0.51
2:M:349:ALA:HB3	9:M:1970:HOH:O	2.10	0.51
4:O:33:HIS:CB	4:O:37:ASN:HD21	2.24	0.51
2:C:420:ARG:NH1	2:C:422:ARG:HH21	2.08	0.51
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.44	0.51
3:N:145:VAL:HG13	3:N:146:PRO:N	2.26	0.51
1:L:133:GLU:O	1:L:134:GLU:HG2	2.10	0.51
2:M:398:THR:N	2:M:633:GLN:OE1	2.43	0.51
3:D:436:GLU:HB2	9:D:2406:HOH:O	2.10	0.51
5:P:350:LEU:HD12	5:P:422:LEU:HD12	1.92	0.51
3:D:480:GLU:O	3:D:480:GLU:HG3	2.10	0.51
2:C:278:GLU:HB2	9:C:1544:HOH:O	2.10	0.51
5:F:410:TYR:O	5:F:413:SER:HB2	2.11	0.51
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.40	0.51
1:A:182:GLU:HG2	9:A:412:HOH:O	2.11	0.51
3:N:613:ARG:CZ	3:N:1097:LYS:HE2	2.40	0.51
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.93	0.51
2:C:911:GLU:O	2:C:915:LYS:HG2	2.11	0.51
3:N:204:LEU:HD21	3:N:445:ARG:NH1	2.26	0.51
1:L:23:PHE:O	1:L:196:THR:HA	2.10	0.51
3:D:586:ARG:NH2	3:D:1444:THR:HG21	2.26	0.51
2:C:334:ARG:HB2	9:C:1322:HOH:O	2.09	0.51
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.46	0.51
3:D:799:LYS:O	3:D:826:PRO:HD2	2.09	0.51
3:N:34:TYR:OH	5:P:261:PRO:HD2	2.10	0.51
5:P:370:LYS:HD3	5:P:371:LEU:HG	1.93	0.51
3:N:1113:GLY:N	3:N:1195:GLN:NE2	2.58	0.51
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.92	0.51
3:D:637:LEU:CD1	3:D:641:GLN:HB2	2.41	0.51
5:F:273:ARG:HG2	9:F:688:HOH:O	2.10	0.51
1:K:19:GLU:HB3	9:K:2538:HOH:O	2.09	0.51
3:D:1372:VAL:HG13	3:D:1373:ARG:N	2.26	0.51
2:M:411:SER:OG	2:M:452:ILE:HG23	2.11	0.51
2:M:477:GLY:O	2:M:508:ILE:HG12	2.11	0.51
3:D:97:THR:HB	9:D:1781:HOH:O	2.10	0.51
2:M:244:PRO:HD2	2:M:245:GLY:H	1.75	0.51
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.92	0.51
2:M:1058:ASP:HB2	3:N:621:LYS:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:70:GLY:N	2:M:607:ASP:OD1	2.38	0.51
3:N:754:PHE:HE2	3:N:1476:THR:HG21	1.76	0.51
3:D:52:PRO:HD2	9:D:1552:HOH:O	2.10	0.51
2:M:516:ARG:HD2	9:M:1937:HOH:O	2.10	0.51
3:D:443:VAL:HG22	3:D:444:VAL:N	2.26	0.51
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.91	0.51
2:C:165:LEU:HA	2:C:166:PRO:O	2.10	0.51
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.91	0.51
2:C:551:GLU:OE2	2:C:552:HIS:NE2	2.43	0.51
5:F:153:PRO:HD2	9:F:614:HOH:O	2.09	0.51
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.40	0.51
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.76	0.51
3:N:141:ILE:HG21	3:N:449:SER:HA	1.92	0.51
3:N:996:TRP:O	3:N:999:THR:HG22	2.11	0.51
3:D:1441:GLN:HG3	3:D:1442:ASN:N	2.25	0.51
3:N:986:ARG:HG3	9:N:1540:HOH:O	2.11	0.51
3:D:820:GLU:HA	3:D:825:ALA:O	2.10	0.51
3:D:1382:THR:HG21	3:D:1418:LYS:NZ	2.25	0.51
1:K:11:PHE:HB2	9:K:1022:HOH:O	2.10	0.51
2:M:881:ASN:H	2:M:881:ASN:HD22	1.59	0.51
3:N:1382:THR:HG21	3:N:1418:LYS:HE3	1.92	0.51
7:N:1527:MXP:H11A	9:N:1557:HOH:O	2.11	0.51
3:D:1101:VAL:CA	3:D:1428:ALA:HB2	2.40	0.51
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.40	0.51
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.93	0.51
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.91	0.51
3:N:563:PRO:HG2	3:N:566:ILE:HD12	1.93	0.51
2:M:333:ILE:HB	9:M:1750:HOH:O	2.10	0.51
2:M:98:LEU:HG	9:M:1826:HOH:O	2.10	0.51
4:O:41:GLU:N	4:O:42:PRO:CD	2.74	0.51
2:C:334:ARG:NH1	2:C:415:PRO:HG2	2.25	0.51
4:E:17:TYR:CD2	4:E:17:TYR:N	2.78	0.51
3:D:687:VAL:HG13	9:D:2185:HOH:O	2.11	0.51
1:A:49:PRO:O	1:A:173:PRO:HG2	2.10	0.51
3:N:866:VAL:HG12	3:N:867:ARG:N	2.25	0.51
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.41	0.51
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.76	0.51
5:F:339:PRO:HB3	5:F:343:ASP:HB2	1.92	0.51
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.92	0.51
2:M:1105:LYS:O	2:M:1107:ASN:N	2.44	0.51
1:K:180:GLN:HE22	2:M:929:ARG:HH21	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1305:LEU:HD22	3:D:1309:ALA:HB1	1.92	0.51
3:N:14:SER:O	3:N:17:LYS:N	2.44	0.51
1:A:1:MET:HB3	9:A:440:HOH:O	2.10	0.51
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.09	0.51
5:P:103:ALA:HB3	9:P:455:HOH:O	2.11	0.51
3:N:1250:ALA:HB2	9:N:1888:HOH:O	2.09	0.51
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.91	0.51
2:C:6:PHE:CB	2:C:909:ALA:HA	2.40	0.51
3:N:569:ASN:HB3	5:P:214:GLN:NE2	2.25	0.51
2:M:267:TYR:HD1	9:M:2269:HOH:O	1.94	0.51
4:E:41:GLU:N	4:E:42:PRO:CD	2.72	0.51
2:C:275:TYR:HB2	9:C:1736:HOH:O	2.10	0.51
2:C:305:PRO:CA	2:C:308:ARG:HB2	2.41	0.51
3:D:633:VAL:HG13	3:D:633:VAL:O	2.11	0.51
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.40	0.51
1:K:25:LEU:HB2	9:K:1260:HOH:O	2.11	0.51
2:C:676:ILE:O	2:C:676:ILE:CG2	2.56	0.51
5:P:163:LEU:HD22	5:P:174:LEU:HD12	1.91	0.51
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.46	0.51
3:D:661:MET:O	3:D:664:LYS:O	2.28	0.51
2:C:742:VAL:HG12	2:C:743:VAL:N	2.26	0.51
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.41	0.51
2:M:644:VAL:HG22	2:M:647:GLN:OE1	2.11	0.51
3:D:46:ASP:OD2	3:D:48:ARG:HG2	2.11	0.51
3:N:399:ARG:HD2	9:N:1669:HOH:O	2.09	0.51
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.11	0.51
1:B:68:ILE:HG23	1:B:137:ARG:NH1	2.25	0.51
2:C:18:LEU:HD21	2:C:542:VAL:CG1	2.41	0.51
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.46	0.51
3:D:581:LEU:O	3:D:603:LEU:HG	2.11	0.51
3:N:569:ASN:HD21	5:P:210:LEU:CD2	2.22	0.51
2:M:437:ARG:HH22	2:M:491:GLU:CB	2.24	0.51
3:D:407:VAL:HG13	3:D:422:ALA:HB2	1.92	0.51
2:C:952:LEU:HD22	9:C:1205:HOH:O	2.10	0.51
1:L:50:GLY:HA3	1:L:171:PHE:O	2.11	0.51
3:N:615:ARG:O	3:N:617:ASN:N	2.44	0.51
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.35	0.51
3:D:162:ARG:HD2	3:D:434:ARG:CZ	2.41	0.51
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.46	0.51
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.93	0.51
1:K:89:PHE:HB3	1:K:94:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1145:TYR:CE2	3:D:1168:MET:HB2	2.45	0.51
2:C:498:GLN:NE2	2:C:498:GLN:HA	2.26	0.51
2:M:979:THR:HG23	2:M:981:GLU:N	2.24	0.51
3:D:761:ILE:HG21	9:E:116:HOH:O	2.11	0.51
3:N:820:GLU:HA	3:N:825:ALA:O	2.11	0.51
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.11	0.51
9:N:2109:HOH:O	5:P:164:LYS:HE3	2.10	0.51
3:D:537:THR:C	5:F:317:LEU:HB2	2.32	0.51
3:D:141:ILE:CG2	3:D:450:TYR:H	2.24	0.51
3:N:137:PRO:HD2	3:N:453:ASP:OD2	2.11	0.50
2:M:289:THR:O	2:M:291:ALA:N	2.44	0.50
2:C:890:LEU:HD12	2:C:914:ILE:HD13	1.93	0.50
2:M:139:GLN:HE21	2:M:334:ARG:HD2	1.77	0.50
2:M:358:ARG:HD3	2:M:371:LYS:O	2.11	0.50
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.76	0.50
2:M:755:LEU:HD12	9:M:1781:HOH:O	2.10	0.50
2:C:42:VAL:HG23	9:C:1299:HOH:O	2.10	0.50
2:M:736:ASP:C	2:M:738:ASP:H	2.13	0.50
2:M:463:GLU:HB3	9:M:1990:HOH:O	2.09	0.50
2:M:157:ARG:NH2	2:M:314:THR:O	2.44	0.50
5:P:372:ARG:HD3	9:P:506:HOH:O	2.11	0.50
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.45	0.50
3:N:955:VAL:O	3:N:1039:CYS:HB3	2.11	0.50
3:D:1147:ARG:HD2	3:D:1188:VAL:HG21	1.92	0.50
3:D:448:GLU:HA	9:D:2218:HOH:O	2.11	0.50
1:A:57:TYR:O	1:A:140:MET:HA	2.11	0.50
1:A:16:GLN:HG2	1:A:16:GLN:O	2.10	0.50
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.93	0.50
2:C:942:GLU:O	2:C:945:ARG:HB3	2.11	0.50
3:D:6:ARG:HD3	9:D:1692:HOH:O	2.11	0.50
2:M:275:TYR:HD2	9:M:1681:HOH:O	1.94	0.50
1:A:216:GLU:HG2	9:A:422:HOH:O	2.10	0.50
2:C:861:LEU:HD21	2:C:925:TYR:HE2	1.76	0.50
1:L:69:PRO:C	1:L:71:VAL:H	2.13	0.50
1:K:179:PHE:HZ	2:M:939:ARG:HH22	1.57	0.50
3:D:421:LEU:CG	3:D:429:SER:HB3	2.42	0.50
4:E:45:ARG:HH21	4:E:55:PHE:HB3	1.75	0.50
2:M:710:ILE:CD1	2:M:790:LEU:HB2	2.41	0.50
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.41	0.50
2:M:573:ARG:HH12	2:M:697:ARG:HB3	1.75	0.50
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:671:ASN:H	2:M:671:ASN:ND2	2.08	0.50
3:N:9:ARG:HE	3:N:11:ALA:HB2	1.75	0.50
2:M:930:LYS:HA	9:M:1678:HOH:O	2.11	0.50
3:D:627:GLY:O	3:D:747:VAL:HG12	2.12	0.50
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	1.92	0.50
5:F:287:THR:HG23	5:F:289:GLU:HB3	1.92	0.50
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.94	0.50
2:C:480:THR:HG22	2:C:481:ASP:H	1.76	0.50
2:M:334:ARG:NH2	2:M:418:LEU:HD11	2.26	0.50
2:C:41:ASN:H	2:C:41:ASN:ND2	1.97	0.50
3:N:52:PRO:CG	3:N:80:VAL:HG13	2.41	0.50
2:C:185:LYS:CE	2:C:190:LYS:HE2	2.40	0.50
2:C:877:PRO:CG	3:D:1023:MET:HE2	2.36	0.50
2:C:181:VAL:HG11	9:C:1754:HOH:O	2.10	0.50
2:M:470:PRO:HD3	2:M:485:TYR:CE2	2.46	0.50
3:N:1495:ILE:HA	4:O:88:GLU:OE2	2.11	0.50
3:D:800:LYS:NZ	3:D:804:LEU:HD13	2.26	0.50
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.93	0.50
2:M:253:ALA:O	2:M:256:TYR:HB2	2.11	0.50
5:F:361:LEU:HD13	5:F:366:ALA:CB	2.42	0.50
2:C:756:VAL:HG21	2:C:823:VAL:HG11	1.92	0.50
2:M:274:ARG:HG2	9:M:1662:HOH:O	2.10	0.50
3:N:1299:PHE:N	3:N:1299:PHE:CD2	2.79	0.50
2:M:136:ILE:CG2	2:M:336:VAL:HG22	2.41	0.50
4:O:49:GLN:HB3	9:O:1772:HOH:O	2.11	0.50
1:A:50:GLY:O	1:A:146:ARG:HA	2.11	0.50
3:N:414:ARG:HB3	9:N:2299:HOH:O	2.11	0.50
2:M:1019:GLN:NE2	3:N:621:LYS:HA	2.22	0.50
2:M:877:PRO:HG3	3:N:1020:LEU:CD1	2.41	0.50
3:D:543:LEU:HB2	9:D:1714:HOH:O	2.10	0.50
3:N:561:GLY:CA	5:P:184:ARG:HH12	2.23	0.50
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.93	0.50
5:F:141:VAL:O	5:F:145:PRO:HD2	2.12	0.50
3:D:1466:VAL:CG2	3:D:1472:ILE:HD11	2.36	0.50
5:F:85:LEU:HD11	9:F:543:HOH:O	2.11	0.50
3:D:1495:ILE:HD12	4:E:88:GLU:OE2	2.11	0.50
2:C:759:THR:HB	2:C:785:VAL:CG2	2.41	0.50
1:K:9:PRO:HB3	1:K:25:LEU:CD2	2.41	0.50
2:C:42:VAL:HG12	2:C:43:GLY:N	2.23	0.50
2:M:837:ASP:O	2:M:848:VAL:HG13	2.11	0.50
3:N:1189:ARG:HD3	9:N:1595:HOH:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:274:ARG:O	2:M:274:ARG:HG2	2.10	0.50
5:F:363:GLU:HA	5:F:367:MET:HG3	1.93	0.50
3:D:1276:GLU:HG3	3:D:1303:TYR:OH	2.12	0.50
1:A:183:ASP:HB3	9:A:322:HOH:O	2.11	0.50
3:D:610:LYS:CG	7:D:1527:MXP:C15	2.90	0.50
2:M:290:LEU:H	2:M:290:LEU:HD23	1.76	0.50
2:C:73:LEU:HD23	2:C:94:LEU:HD13	1.93	0.50
5:P:214:GLN:O	5:P:217:ASN:HB2	2.12	0.50
5:F:288:TYR:HA	5:F:291:ILE:HG22	1.92	0.50
2:M:96:ALA:HB3	9:M:1826:HOH:O	2.10	0.50
3:D:1223:ILE:CD1	3:D:1223:ILE:H	2.22	0.50
2:M:227:PHE:HA	2:M:237:ARG:HH12	1.75	0.50
3:N:34:TYR:OH	5:P:264:MET:HG3	2.11	0.50
2:M:545:ASN:O	2:M:581:THR:HG21	2.11	0.50
3:N:1481:VAL:HG13	4:O:18:ARG:HG3	1.93	0.50
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.46	0.50
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.94	0.50
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.50
3:N:728:LEU:HD22	3:N:745:MET:SD	2.52	0.50
2:C:1005:MET:HE2	3:D:648:MET:HB2	1.94	0.50
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.76	0.50
2:M:565:GLN:HG2	2:M:995:MET:HE2	1.93	0.50
3:D:1192:LEU:HD13	3:D:1345:GLU:HG2	1.94	0.50
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.41	0.50
3:N:1128:VAL:HG13	9:N:2137:HOH:O	2.12	0.50
3:N:970:LYS:HD3	9:N:2041:HOH:O	2.12	0.50
2:M:186:VAL:HG23	2:M:187:ASN:H	1.75	0.50
3:N:627:GLY:O	3:N:747:VAL:HG12	2.12	0.50
2:C:897:LEU:HB3	2:C:899:GLN:HG2	1.93	0.50
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.47	0.50
2:C:6:PHE:HB2	2:C:908:GLY:C	2.32	0.50
2:M:110:GLU:HB3	9:M:2230:HOH:O	2.10	0.50
3:N:403:PHE:HE2	3:N:443:VAL:N	2.10	0.50
2:M:762:LYS:HG2	2:M:763:GLY:H	1.76	0.50
4:E:64:ALA:HA	4:E:67:GLU:OE1	2.12	0.50
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.93	0.50
5:F:88:ILE:CG2	5:F:193:ARG:HH11	2.24	0.50
1:K:18:ARG:HH11	1:K:123:MET:CE	2.21	0.50
2:M:795:GLY:HA3	2:M:1004:LYS:HE2	1.93	0.50
3:D:641:GLN:HG2	9:D:1610:HOH:O	2.10	0.50
2:M:496:ILE:HD12	2:M:496:ILE:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:392:VAL:HG11	5:P:396:ARG:CD	2.41	0.50
1:K:19:GLU:O	1:K:200:TRP:HA	2.12	0.50
3:D:11:ALA:HB1	3:D:507:ASN:OD1	2.12	0.50
3:N:567:ILE:H	3:N:567:ILE:HD12	1.77	0.50
3:N:1128:VAL:HG11	9:N:1633:HOH:O	2.10	0.50
3:N:1408:ILE:O	3:N:1409:ALA:C	2.47	0.50
2:M:517:ARG:HB2	9:M:2072:HOH:O	2.12	0.50
2:M:153:ALA:O	2:M:155:PRO:HD3	2.12	0.50
2:M:269:LEU:HB3	9:M:2007:HOH:O	2.11	0.50
2:M:878:SER:HB3	3:N:1029:ARG:HH11	1.75	0.50
2:C:1004:LYS:HA	9:C:1776:HOH:O	2.11	0.50
1:K:186:LEU:CB	1:K:192:LEU:HD11	2.40	0.50
2:C:64:LEU:HD13	2:C:359:MET:CG	2.41	0.50
3:D:418:GLY:N	3:D:429:SER:O	2.35	0.50
3:D:1216:SER:HB3	9:D:2106:HOH:O	2.11	0.50
3:N:630:VAL:CA	3:N:744:GLN:HG2	2.39	0.50
1:L:4:SER:HA	1:L:7:LYS:HG2	1.93	0.50
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.93	0.50
3:N:1310:ARG:HG3	3:N:1327:ARG:HB3	1.94	0.50
3:D:630:VAL:CA	3:D:744:GLN:HG2	2.38	0.50
3:D:800:LYS:HE2	3:D:804:LEU:HD13	1.94	0.50
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.92	0.50
5:F:282:LEU:HD12	9:F:487:HOH:O	2.11	0.50
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.74	0.50
3:D:862:ASP:O	3:D:876:SER:HB2	2.12	0.50
5:P:163:LEU:HB3	5:P:174:LEU:HD13	1.93	0.50
2:C:811:PRO:HD2	2:C:813:VAL:HG22	1.93	0.50
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.94	0.50
1:A:106:PRO:HG3	1:A:134:GLU:HG3	1.93	0.50
2:C:808:ARG:HA	2:C:815:LEU:HD22	1.92	0.50
2:C:244:PRO:CD	2:C:245:GLY:H	2.24	0.50
3:N:716:PHE:CE2	3:N:765:SER:HB3	2.47	0.50
3:D:753:SER:HB3	9:E:134:HOH:O	2.11	0.50
1:L:19:GLU:O	1:L:200:TRP:HA	2.12	0.50
4:E:38:THR:HG22	9:E:103:HOH:O	2.12	0.50
2:M:876:VAL:O	2:M:879:ARG:O	2.29	0.50
2:M:145:GLY:H	2:M:163:ILE:HG12	1.76	0.50
2:M:57:GLU:O	2:M:62:GLY:HA3	2.11	0.50
2:C:1096:ALA:O	3:D:13:ALA:CB	2.60	0.50
3:D:999:THR:O	3:D:1003:VAL:HG13	2.12	0.50
4:O:89:MET:HA	9:O:1936:HOH:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.12	0.50
5:F:406:ARG:O	5:F:409:LYS:HG2	2.12	0.50
2:C:650:ARG:HB2	2:C:653:ASP:HB2	1.93	0.50
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.42	0.50
2:M:618:GLY:HA2	9:M:1827:HOH:O	2.10	0.50
1:K:216:GLU:O	1:K:220:GLU:HG3	2.11	0.50
3:D:614:PHE:HB3	3:D:617:ASN:HB3	1.94	0.50
3:N:1209:LEU:HD13	9:N:1985:HOH:O	2.12	0.50
3:D:520:LEU:O	3:D:525:ARG:NH1	2.45	0.50
2:C:32:ALA:HB2	2:C:73:LEU:HD11	1.93	0.50
3:N:129:PHE:O	3:N:572:ARG:HG2	2.11	0.50
3:N:131:LYS:HE3	3:N:568:ARG:HB2	1.94	0.50
2:M:729:LEU:HD13	3:N:675:ARG:CZ	2.42	0.50
1:K:34:VAL:HG22	2:M:939:ARG:NH2	2.27	0.50
3:N:19:ARG:HG2	9:N:2118:HOH:O	2.11	0.50
3:N:394:LEU:HD11	9:N:1920:HOH:O	2.11	0.50
4:E:40:LEU:HD22	9:E:124:HOH:O	2.11	0.50
4:E:45:ARG:HB2	4:E:46:PRO:CD	2.42	0.50
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.12	0.50
2:C:165:LEU:HD12	2:C:166:PRO:C	2.32	0.50
2:C:262:ALA:O	2:C:264:PRO:O	2.30	0.50
3:N:1310:ARG:NE	3:N:1327:ARG:HB3	2.27	0.50
2:M:580:MET:HB3	2:M:584:GLU:CD	2.32	0.50
5:P:358:LEU:HD13	5:P:370:LYS:CG	2.42	0.50
5:P:358:LEU:HD21	5:P:367:MET:CE	2.42	0.50
1:A:85:LEU:HB2	1:A:127:LEU:HD21	1.94	0.50
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.42	0.50
2:C:605:LYS:HB2	9:C:1120:HOH:O	2.11	0.50
2:M:713:ARG:NH2	3:N:531:ASP:HB3	2.27	0.50
2:C:70:GLU:HA	9:C:1632:HOH:O	2.12	0.50
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.42	0.50
2:C:584:GLU:CD	2:C:584:GLU:H	2.14	0.50
2:M:1116:ALA:HA	9:M:2070:HOH:O	2.12	0.50
1:K:211:LEU:O	1:K:211:LEU:HD12	2.11	0.50
1:A:73:GLU:HG3	9:A:363:HOH:O	2.11	0.50
3:D:1214:PRO:HB2	9:D:2327:HOH:O	2.11	0.50
4:E:70:THR:HG22	4:E:71:GLY:N	2.27	0.50
3:N:1353:GLN:NE2	3:N:1363:LEU:O	2.43	0.49
3:N:148:GLU:HG2	3:N:151:GLN:HE21	1.77	0.49
3:N:675:ARG:O	3:N:678:GLU:HG2	2.12	0.49
3:N:516:ALA:O	3:N:518:PRO:HD3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1383:ASP:HB2	3:D:1416:ALA:CB	2.34	0.49
3:N:409:VAL:HB	3:N:421:LEU:HA	1.93	0.49
3:N:1389:LEU:HD12	3:N:1390:LEU:HG	1.94	0.49
3:D:696:HIS:HB2	4:E:48:MET:CE	2.42	0.49
5:P:115:LYS:HD2	5:P:173:TYR:CE2	2.47	0.49
2:M:1034:GLU:CA	2:M:1037:VAL:HG23	2.42	0.49
2:C:461:VAL:HG12	2:C:462:ASP:O	2.12	0.49
2:M:196:LEU:O	2:M:199:VAL:HB	2.12	0.49
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.94	0.49
1:L:211:LEU:O	1:L:214:ALA:HB3	2.12	0.49
5:F:189:GLU:HA	5:F:192:LEU:HD12	1.94	0.49
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.12	0.49
3:D:1147:ARG:HB3	3:D:1188:VAL:HG23	1.93	0.49
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.42	0.49
2:M:498:GLN:HB2	9:M:2088:HOH:O	2.11	0.49
5:P:187:LEU:O	5:P:187:LEU:HD23	2.11	0.49
4:E:74:VAL:HA	9:E:163:HOH:O	2.12	0.49
2:C:1087:VAL:HG12	3:D:610:LYS:NZ	2.27	0.49
2:M:305:PRO:CA	2:M:308:ARG:HB2	2.42	0.49
3:D:39:PRO:HB3	3:D:45:PHE:C	2.33	0.49
2:C:358:ARG:HG3	9:C:1597:HOH:O	2.11	0.49
3:D:119:SER:HB2	3:D:123:LEU:CB	2.36	0.49
1:B:85:LEU:HG	9:B:527:HOH:O	2.10	0.49
2:M:403:SER:O	2:M:407:LYS:HG3	2.12	0.49
2:C:684:PHE:HE2	3:D:733:CYS:SG	2.35	0.49
2:C:523:ILE:HG22	9:C:1356:HOH:O	2.12	0.49
5:F:151:LEU:HD22	9:F:737:HOH:O	2.12	0.49
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.77	0.49
3:D:17:LYS:HB2	9:D:1656:HOH:O	2.12	0.49
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.32	0.49
2:C:252:LYS:HB3	2:C:298:PHE:HZ	1.77	0.49
3:D:99:ALA:HB1	3:D:575:GLN:OE1	2.11	0.49
1:K:57:TYR:CE2	1:K:59:GLU:HA	2.46	0.49
2:C:789:SER:O	2:C:791:ARG:HG3	2.12	0.49
1:B:25:LEU:HD23	1:B:28:LEU:HD11	1.94	0.49
1:A:189:ARG:HG3	9:A:334:HOH:O	2.12	0.49
2:M:302:VAL:O	2:M:306:THR:HG23	2.11	0.49
3:D:540:LEU:HA	3:D:543:LEU:HD12	1.94	0.49
5:P:299:TRP:CE3	5:P:303:ARG:HD3	2.46	0.49
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.93	0.49
5:F:259:ARG:HA	9:F:658:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:338:GLU:O	2:M:341:THR:HG22	2.12	0.49
3:D:465:LEU:HD22	3:D:509:PRO:O	2.12	0.49
2:M:1115:LEU:CD2	3:N:85:VAL:HG13	2.40	0.49
3:N:862:ASP:O	3:N:877:PRO:HD3	2.13	0.49
3:D:1388:ARG:HG3	3:D:1389:LEU:N	2.26	0.49
3:D:27:GLU:HA	9:D:2102:HOH:O	2.11	0.49
2:M:191:PHE:CD2	2:M:195:LEU:HD23	2.48	0.49
1:K:134:GLU:HG2	9:K:1422:HOH:O	2.11	0.49
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.44	0.49
1:L:12:THR:OG1	1:L:24:VAL:HB	2.12	0.49
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.95	0.49
3:D:65:ARG:HB2	5:F:375:LEU:O	2.11	0.49
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.45	0.49
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.93	0.49
2:C:926:PHE:CD1	2:C:929:ARG:HD3	2.46	0.49
3:D:984:THR:CG2	3:D:987:GLU:H	2.25	0.49
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.26	0.49
4:O:72:ARG:HB2	9:O:4461:HOH:O	2.12	0.49
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.12	0.49
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.94	0.49
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.12	0.49
2:M:679:PHE:C	3:N:943:THR:HG22	2.33	0.49
3:N:928:ALA:O	3:N:931:LEU:HB2	2.12	0.49
2:M:629:TYR:HB3	9:M:1712:HOH:O	2.11	0.49
3:D:1307:LYS:HE3	9:D:2288:HOH:O	2.12	0.49
2:M:1060:ILE:HB	9:M:1724:HOH:O	2.12	0.49
3:N:1372:VAL:HA	3:N:1375:MET:SD	2.53	0.49
3:D:957:PRO:HG3	3:D:1010:ASN:HD22	1.77	0.49
5:P:185:GLN:O	5:P:189:GLU:HG3	2.12	0.49
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.46	0.49
2:C:163:ILE:HG21	9:C:1347:HOH:O	2.11	0.49
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.43	0.49
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.42	0.49
2:C:625:LEU:O	2:C:627:ARG:N	2.46	0.49
3:D:1209:LEU:HD21	4:E:16:LYS:HD2	1.94	0.49
2:C:810:ASP:N	2:C:811:PRO:CD	2.75	0.49
3:N:141:ILE:HG23	3:N:161:LEU:HD21	1.95	0.49
3:D:14:SER:O	3:D:17:LYS:N	2.46	0.49
3:N:1262:LEU:HD23	3:N:1352:ILE:HG12	1.93	0.49
2:M:810:ASP:N	2:M:811:PRO:CD	2.75	0.49
5:P:369:LEU:HD11	5:P:401:GLU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:21:ILE:O	2:C:25:SER:HB2	2.13	0.49
2:C:775:ARG:HG2	9:C:1674:HOH:O	2.12	0.49
3:N:820:GLU:HG2	3:N:825:ALA:O	2.13	0.49
3:D:145:VAL:HG13	3:D:146:PRO:N	2.28	0.49
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.49
2:M:443:THR:CG2	2:M:449:ILE:HG13	2.42	0.49
3:D:1463:LYS:HB2	7:D:1527:MXP:H23B	1.95	0.49
3:D:527:MET:HB3	9:D:1582:HOH:O	2.11	0.49
5:P:299:TRP:HE3	9:P:492:HOH:O	1.94	0.49
2:M:985:GLY:C	9:N:1555:HOH:O	2.49	0.49
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.18	0.49
3:D:481:MET:HG3	3:D:1388:ARG:NH2	2.27	0.49
5:F:364:ARG:HD2	9:F:435:HOH:O	2.12	0.49
3:N:149:LYS:HA	9:N:2241:HOH:O	2.12	0.49
1:B:149:GLY:O	1:B:171:PHE:HB2	2.13	0.49
3:N:827:ILE:O	3:N:837:GLY:HA3	2.13	0.49
3:D:1159:ARG:HB3	3:D:1159:ARG:CZ	2.43	0.49
3:N:895:VAL:O	3:N:899:LEU:HG	2.12	0.49
2:M:818:GLY:N	5:P:309:LYS:HE2	2.26	0.49
2:M:678:PRO:O	3:N:943:THR:HA	2.11	0.49
3:N:207:PHE:HA	9:N:1567:HOH:O	2.12	0.49
2:C:85:GLU:OE2	2:C:802:ARG:NH2	2.45	0.49
3:N:1435:LEU:HA	9:N:1677:HOH:O	2.13	0.49
2:C:1004:LYS:HG3	9:C:1776:HOH:O	2.12	0.49
2:M:139:GLN:CD	2:M:418:LEU:HD22	2.33	0.49
2:M:101:ILE:HG23	2:M:107:LEU:CD2	2.41	0.49
2:M:364:GLU:O	2:M:367:LEU:HD21	2.12	0.49
2:M:442:GLU:HG2	2:M:454:SER:OG	2.12	0.49
3:D:409:VAL:HB	3:D:421:LEU:HA	1.94	0.49
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.20	0.49
1:L:158:ILE:HG12	9:L:3428:HOH:O	2.13	0.49
3:N:527:MET:HE2	5:P:258:ILE:HD11	1.94	0.49
2:C:113:VAL:HB	2:C:115:LEU:HD23	1.95	0.49
3:N:736:PHE:O	3:N:738:ALA:N	2.46	0.49
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.93	0.49
5:P:358:LEU:HD22	5:P:370:LYS:HE3	1.94	0.49
1:A:133:GLU:HG2	1:A:134:GLU:H	1.77	0.49
3:N:185:VAL:HG22	3:N:203:ALA:HB2	1.95	0.49
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.47	0.49
5:P:209:PHE:O	5:P:213:ILE:HG13	2.12	0.49
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:209:ARG:O	2:M:213:ALA:HB2	2.12	0.49
3:D:674:ARG:HD3	9:D:1564:HOH:O	2.11	0.49
3:D:521:PRO:O	3:D:525:ARG:HG2	2.13	0.49
3:D:53:ILE:HG23	3:D:54:LYS:H	1.78	0.49
5:F:295:MET:HG2	5:F:299:TRP:CD2	2.47	0.49
2:M:358:ARG:HA	2:M:361:MET:HB2	1.95	0.49
3:N:443:VAL:HG22	3:N:444:VAL:H	1.77	0.49
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.47	0.49
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.42	0.49
2:C:681:GLY:O	3:D:633:VAL:HG21	2.12	0.49
3:D:1114:THR:HG23	3:D:1116:ASN:HD21	1.78	0.49
3:D:1189:ARG:HH11	3:D:1203:LYS:HB2	1.77	0.49
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.41	0.49
2:C:815:LEU:HD23	2:C:819:VAL:O	2.12	0.49
2:C:816:LYS:O	2:C:819:VAL:HB	2.12	0.49
1:A:176:ARG:O	1:A:200:TRP:HE3	1.96	0.49
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.76	0.49
3:N:28:LYS:CG	3:N:41:ARG:HH11	2.25	0.49
3:D:664:LYS:HA	9:D:1859:HOH:O	2.12	0.49
2:C:622:GLU:HB3	9:C:1635:HOH:O	2.12	0.49
2:M:1109:VAL:HA	3:N:3:LYS:HE3	1.93	0.49
1:L:2:LEU:HD12	1:L:3:ASP:HB2	1.95	0.49
2:M:185:LYS:HE2	2:M:190:LYS:HG2	1.95	0.49
3:D:1177:ALA:CB	3:D:1183:ILE:HD11	2.42	0.49
3:D:988:ARG:O	3:D:992:ILE:HG13	2.13	0.49
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.93	0.49
2:C:722:ILE:HG23	2:C:722:ILE:O	2.13	0.49
3:N:1128:VAL:O	3:N:1129:THR:C	2.49	0.49
3:D:530:VAL:HG13	9:D:2079:HOH:O	2.12	0.49
5:P:287:THR:HG23	5:P:289:GLU:HB3	1.93	0.49
3:N:1246:VAL:HG13	3:N:1269:LYS:NZ	2.28	0.49
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.48	0.49
2:M:923:GLU:O	2:M:927:GLY:HA3	2.12	0.49
3:N:1363:LEU:HD12	3:N:1364:HIS:O	2.12	0.49
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.47	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.26	0.49
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.43	0.49
2:C:332:ARG:CZ	2:C:464:LEU:HD11	2.43	0.49
5:F:81:VAL:O	5:F:85:LEU:HB2	2.12	0.49
3:D:122:GLU:O	3:D:126:VAL:HG23	2.13	0.49
3:N:1161:GLU:HG3	3:N:1164:ARG:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.33	0.49
4:E:23:VAL:HG12	4:E:61:VAL:HG13	1.95	0.49
2:M:331:ARG:NH1	2:M:427:VAL:HG12	2.27	0.49
2:C:420:ARG:HG3	2:C:422:ARG:HG2	1.95	0.49
3:D:507:ASN:HB2	9:D:1793:HOH:O	2.12	0.49
2:M:967:PHE:CD1	2:M:972:VAL:HG12	2.47	0.49
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.95	0.49
5:P:226:LYS:HD2	5:P:242:TRP:CZ2	2.48	0.49
9:C:1813:HOH:O	3:D:532:GLY:HA3	2.13	0.49
2:M:506:ASN:HB2	9:M:1906:HOH:O	2.12	0.49
1:B:73:GLU:CD	1:B:130:ALA:HA	2.32	0.49
3:D:937:TYR:O	3:D:941:PHE:HD1	1.95	0.49
2:C:1115:LEU:HD23	3:D:85:VAL:CA	2.43	0.49
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.94	0.49
3:D:527:MET:HE2	5:F:258:ILE:HD11	1.93	0.49
2:M:108:ILE:HB	2:M:368:THR:HG1	1.76	0.49
2:M:442:GLU:HG3	2:M:442:GLU:O	2.11	0.49
3:N:418:GLY:N	3:N:429:SER:O	2.34	0.49
2:C:418:LEU:N	2:C:418:LEU:HD12	2.28	0.49
3:N:528:VAL:O	3:N:535:PHE:HA	2.13	0.49
3:D:1161:GLU:HG3	3:D:1164:ARG:CB	2.39	0.49
2:C:341:THR:O	2:C:345:ARG:HG3	2.12	0.49
3:N:34:TYR:HE2	5:P:260:ILE:HA	1.77	0.49
3:D:572:ARG:NH2	5:F:83:GLN:HE21	2.10	0.49
3:N:141:ILE:HG21	3:N:450:TYR:H	1.78	0.49
2:M:1096:ALA:O	3:N:13:ALA:CB	2.61	0.49
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.46	0.49
5:P:191:ASN:OD1	5:P:194:LEU:HD13	2.13	0.49
3:D:1379:VAL:HG11	3:D:1395:LEU:HD12	1.95	0.49
3:N:964:LEU:HD22	9:N:2037:HOH:O	2.13	0.49
3:D:1051:GLU:HA	9:D:1601:HOH:O	2.12	0.49
3:N:1242:HIS:HE1	3:N:1266:ARG:HB3	1.78	0.49
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.94	0.49
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.77	0.49
2:C:890:LEU:CA	2:C:914:ILE:HD11	2.33	0.49
2:C:358:ARG:HA	2:C:361:MET:HB2	1.93	0.49
2:C:367:LEU:HA	2:C:371:LYS:CG	2.35	0.49
3:D:116:LEU:HB3	3:D:118:LEU:HG	1.94	0.49
5:P:116:LEU:HB2	5:P:127:ILE:HD12	1.95	0.49
2:C:148:PHE:CZ	2:C:281:LEU:HD13	2.35	0.49
3:D:1481:VAL:HG13	4:E:18:ARG:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:770:GLU:O	2:M:773:LEU:HB3	2.13	0.49
2:M:987:ILE:HA	3:N:948:THR:HG21	1.95	0.49
3:N:804:LEU:HB3	9:N:1996:HOH:O	2.11	0.49
3:D:127:LEU:HD12	3:D:128:TYR:N	2.28	0.49
3:D:897:TRP:CH2	3:D:902:LEU:HD21	2.47	0.49
2:M:564:MET:HG3	2:M:997:LEU:HD11	1.94	0.49
5:F:112:ALA:O	5:F:116:LEU:HG	2.13	0.49
3:N:1141:GLU:HG2	3:N:1168:MET:HE1	1.95	0.49
1:B:101:LEU:HD12	1:B:114:PHE:N	2.28	0.49
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.48	0.49
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.77	0.49
1:B:45:LEU:HB2	9:B:399:HOH:O	2.12	0.49
5:P:135:ILE:HD13	5:P:135:ILE:O	2.13	0.49
9:C:1162:HOH:O	3:D:943:THR:HG21	2.13	0.49
3:D:610:LYS:CG	7:D:1527:MXP:H15A	2.42	0.48
1:K:7:LYS:HE2	1:K:186:LEU:CD1	2.29	0.48
2:M:64:LEU:HD13	2:M:359:MET:CG	2.42	0.48
2:C:121:MET:HG3	9:C:1509:HOH:O	2.11	0.48
3:N:39:PRO:HB3	3:N:45:PHE:O	2.13	0.48
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.94	0.48
2:M:858:MET:HB2	2:M:859:PRO:CD	2.43	0.48
3:D:1114:THR:O	3:D:1114:THR:HG23	2.13	0.48
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.94	0.48
3:D:1310:ARG:CZ	3:D:1327:ARG:HD3	2.43	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.94	0.48
3:D:834:THR:HA	9:D:2405:HOH:O	2.13	0.48
2:C:1033:GLY:O	2:C:1036:GLU:HG2	2.13	0.48
3:N:984:THR:CG2	3:N:987:GLU:H	2.25	0.48
3:D:186:VAL:HB	3:D:189:GLN:HB2	1.95	0.48
2:C:17:PRO:HG2	9:C:1758:HOH:O	2.12	0.48
5:P:220:LEU:HB2	5:P:243:ILE:HD11	1.95	0.48
3:N:1128:VAL:HG12	9:N:1593:HOH:O	2.13	0.48
4:E:28:GLN:HG3	9:E:134:HOH:O	2.12	0.48
3:D:1049:SER:OG	3:D:1051:GLU:HG3	2.13	0.48
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.60	0.48
2:M:242:LEU:HD22	9:M:1924:HOH:O	2.11	0.48
2:C:379:GLU:O	2:C:383:ARG:HB3	2.13	0.48
3:D:614:PHE:O	3:D:615:ARG:C	2.51	0.48
3:N:610:LYS:HG2	7:N:1527:MXP:C15	2.43	0.48
3:N:180:LYS:HG3	3:N:183:GLU:H	1.77	0.48
2:C:18:LEU:HD23	2:C:404:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:ARG:HD2	1:A:191:ASP:OD1	2.12	0.48
3:N:754:PHE:CE2	3:N:1476:THR:HG21	2.49	0.48
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.12	0.48
2:C:367:LEU:O	2:C:371:LYS:HB2	2.13	0.48
3:N:112:ILE:HD12	3:N:461:ILE:HG21	1.94	0.48
3:N:417:PRO:HD2	3:N:432:TYR:CE1	2.48	0.48
2:C:139:GLN:NE2	2:C:418:LEU:HD22	2.28	0.48
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.53	0.48
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.44	0.48
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.94	0.48
2:M:671:ASN:ND2	2:M:993:PHE:HD2	2.10	0.48
2:M:461:VAL:HG12	2:M:462:ASP:O	2.13	0.48
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.45	0.48
5:P:371:LEU:HD12	9:P:669:HOH:O	2.11	0.48
3:D:14:SER:HB2	9:D:1656:HOH:O	2.13	0.48
1:K:55:SER:CB	1:K:158:ILE:HG21	2.43	0.48
9:D:1893:HOH:O	4:E:85:LEU:HG	2.13	0.48
3:D:741:ASP:N	3:D:741:ASP:OD2	2.41	0.48
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.95	0.48
5:F:277:GLN:O	5:F:280:GLN:HB3	2.13	0.48
2:C:1054:THR:HG23	2:C:1082:PRO:HG3	1.93	0.48
2:M:139:GLN:HG2	2:M:140:ILE:H	1.77	0.48
1:K:34:VAL:HG22	2:M:939:ARG:HH21	1.79	0.48
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.95	0.48
2:C:468:ARG:NE	2:C:485:TYR:HB3	2.27	0.48
3:N:524:LEU:C	3:N:526:PRO:HD3	2.33	0.48
5:P:306:GLU:O	5:P:310:ILE:HG13	2.13	0.48
3:N:161:LEU:O	3:N:449:SER:CB	2.59	0.48
2:C:888:THR:HG22	9:C:1474:HOH:O	2.13	0.48
2:C:15:LEU:HD21	2:C:583:LEU:HD11	1.93	0.48
2:C:198:ARG:HD2	2:C:228:ALA:CB	2.44	0.48
5:F:312:GLN:HB2	9:F:706:HOH:O	2.12	0.48
5:F:109:GLY:O	5:F:113:ILE:HG13	2.13	0.48
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.96	0.48
3:D:760:ARG:HH22	4:E:62:THR:CA	2.26	0.48
3:D:190:GLU:HB2	9:D:1738:HOH:O	2.14	0.48
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.14	0.48
1:A:5:LYS:HB2	9:A:440:HOH:O	2.12	0.48
1:A:201:THR:HG22	1:A:203:GLY:H	1.78	0.48
3:N:1123:PHE:CE1	3:N:1134:LEU:HD12	2.48	0.48
2:M:601:GLY:HA2	2:M:616:GLU:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:615:TYR:HH	2:M:623:TYR:HH	1.60	0.48
3:D:881:LEU:O	3:D:885:ILE:HG13	2.13	0.48
2:M:1014:SER:O	2:M:1018:GLN:HG3	2.14	0.48
1:B:58:ILE:HG21	1:B:68:ILE:HD13	1.96	0.48
2:M:258:TYR:HB3	9:M:1886:HOH:O	2.13	0.48
2:C:472:ARG:O	2:C:531:PHE:HD2	1.96	0.48
3:N:572:ARG:NH1	5:P:79:ASP:OD1	2.39	0.48
2:M:412:ALA:HB1	2:M:419:THR:CG2	2.43	0.48
2:M:101:ILE:HG22	2:M:102:HIS:N	2.28	0.48
2:C:183:SER:CB	2:C:190:LYS:HD3	2.43	0.48
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.94	0.48
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.94	0.48
3:N:1312:LEU:HD12	9:N:2368:HOH:O	2.12	0.48
2:C:627:ARG:O	2:C:638:ASP:HA	2.13	0.48
3:N:9:ARG:HH22	3:N:507:ASN:HD21	1.61	0.48
1:B:12:THR:OG1	1:B:24:VAL:HB	2.14	0.48
3:D:491:LYS:HE2	9:D:1851:HOH:O	2.12	0.48
3:N:534:ARG:HG2	9:P:456:HOH:O	2.13	0.48
5:P:339:PRO:HB3	5:P:343:ASP:HB2	1.94	0.48
2:C:809:GLY:HA2	9:C:1126:HOH:O	2.12	0.48
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.94	0.48
3:N:553:ARG:HH12	5:P:211:ASP:HA	1.78	0.48
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.14	0.48
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.44	0.48
2:M:305:PRO:HA	2:M:308:ARG:CD	2.44	0.48
2:C:1115:LEU:CB	3:D:85:VAL:HG13	2.43	0.48
3:D:32:ILE:HG12	9:D:1967:HOH:O	2.13	0.48
2:M:968:LEU:HD22	9:M:2164:HOH:O	2.13	0.48
5:P:136:LEU:HD23	5:P:181:GLU:OE2	2.13	0.48
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.95	0.48
2:M:165:LEU:HB2	9:M:2226:HOH:O	2.14	0.48
2:C:140:ILE:HA	2:C:332:ARG:O	2.14	0.48
2:C:462:ASP:HB3	2:C:468:ARG:HD3	1.96	0.48
2:C:281:LEU:HD12	2:C:305:PRO:O	2.13	0.48
2:C:405:ARG:HA	9:C:1409:HOH:O	2.12	0.48
5:F:369:LEU:HA	9:F:450:HOH:O	2.13	0.48
3:D:805:GLU:OE1	3:D:809:PRO:HG2	2.14	0.48
3:D:829:VAL:H	3:D:835:SER:CB	2.26	0.48
1:B:107:LYS:HG3	1:B:108:GLU:H	1.78	0.48
3:N:1198:TYR:HE2	9:N:2318:HOH:O	1.96	0.48
3:D:760:ARG:HB2	4:E:3:GLU:OE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:840:LYS:HB3	3:D:841:TYR:CE2	2.48	0.48
2:M:380:ALA:O	2:M:384:GLU:HB2	2.14	0.48
3:N:57:GLU:HG3	3:N:64:LYS:HG2	1.95	0.48
2:C:831:ARG:HD2	9:C:1303:HOH:O	2.14	0.48
3:D:938:GLY:O	3:D:942:SER:HB3	2.14	0.48
2:M:435:TYR:C	2:M:437:ARG:H	2.15	0.48
3:N:409:VAL:O	3:N:437:VAL:HG21	2.13	0.48
3:N:443:VAL:HG11	3:N:445:ARG:HE	1.79	0.48
3:N:417:PRO:HD2	3:N:432:TYR:CD1	2.48	0.48
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.14	0.48
3:D:947:ILE:O	3:D:947:ILE:HD12	2.14	0.48
3:D:162:ARG:HH11	3:D:434:ARG:HH22	1.62	0.48
3:N:1310:ARG:HE	3:N:1327:ARG:HB3	1.78	0.48
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.14	0.48
3:D:1258:ARG:NH2	3:D:1351:GLU:OE2	2.46	0.48
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.96	0.48
3:N:853:VAL:HA	3:N:858:VAL:O	2.14	0.48
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.94	0.48
3:N:1147:ARG:HD2	3:N:1188:VAL:HG21	1.95	0.48
2:M:958:THR:HG23	2:M:961:GLU:H	1.79	0.48
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.94	0.48
3:D:1209:LEU:HD12	3:D:1219:GLU:OE1	2.14	0.48
3:N:1351:GLU:HA	3:N:1354:LYS:HG3	1.95	0.48
3:N:1110:ALA:O	3:N:1111:ASP:C	2.49	0.48
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.44	0.48
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.79	0.48
2:C:1065:ALA:CB	2:C:1077:PRO:HG2	2.43	0.48
3:D:760:ARG:HH22	4:E:62:THR:N	2.11	0.48
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.48	0.48
1:A:16:GLN:O	1:A:16:GLN:CG	2.62	0.48
3:D:670:VAL:O	3:D:674:ARG:HG3	2.14	0.48
5:F:82:ARG:HD3	9:F:608:HOH:O	2.14	0.48
1:A:64:GLU:HG3	1:A:165:ILE:HD12	1.96	0.48
1:A:112:ARG:HA	9:A:397:HOH:O	2.13	0.48
5:F:134:LYS:HB2	5:F:178:ARG:NH2	2.28	0.48
3:D:34:TYR:O	3:D:35:ARG:C	2.51	0.48
4:E:4:PRO:HB2	9:E:109:HOH:O	2.13	0.48
2:M:544:THR:O	2:M:547:ILE:HG13	2.14	0.48
3:D:409:VAL:HG12	3:D:435:VAL:HG11	1.94	0.48
1:A:23:PHE:O	1:A:196:THR:HA	2.13	0.48
2:C:412:ALA:HB1	2:C:419:THR:CG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:521:PRO:O	3:N:525:ARG:HG2	2.13	0.48
1:A:222:LEU:HD11	1:B:218:LEU:HD23	1.95	0.48
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.39	0.48
3:D:565:ILE:HD12	5:F:192:LEU:CD1	2.42	0.48
3:D:1041:LEU:CD1	3:D:1058:ARG:HA	2.42	0.48
1:K:197:LEU:HD23	1:K:197:LEU:N	2.29	0.48
3:D:486:ARG:HB2	9:D:2292:HOH:O	2.12	0.48
3:N:1197:ARG:N	9:N:1577:HOH:O	2.46	0.48
2:C:120:LEU:HA	9:C:1499:HOH:O	2.12	0.48
1:B:156:HIS:CG	1:B:157:GLY:N	2.82	0.48
2:M:682:TYR:CE1	2:M:851:LYS:HD2	2.49	0.48
3:D:45:PHE:HB3	3:D:86:ARG:NH2	2.29	0.48
3:D:204:LEU:O	3:D:393:ILE:HA	2.13	0.48
4:E:73:LEU:N	9:E:131:HOH:O	2.46	0.48
3:N:615:ARG:HH21	3:N:1089:ALA:CB	2.20	0.48
2:C:305:PRO:HA	2:C:308:ARG:CD	2.42	0.48
2:C:211:LEU:CD1	2:C:308:ARG:HA	2.44	0.48
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.48
1:B:7:LYS:HG3	9:B:434:HOH:O	2.13	0.48
2:M:431:HIS:H	2:M:434:HIS:CD2	2.30	0.48
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.94	0.48
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.43	0.48
2:C:724:ARG:HG2	2:C:734:LEU:CD2	2.43	0.48
3:N:1110:ALA:O	3:N:1112:CYS:N	2.46	0.48
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.14	0.48
2:C:719:PRO:HB3	2:C:820:ARG:CZ	2.43	0.48
2:M:1056:LYS:HB3	3:N:623:VAL:HG13	1.94	0.48
5:F:172:ARG:NH1	9:F:462:HOH:O	2.45	0.48
3:N:820:GLU:HG3	3:N:836:VAL:HG11	1.95	0.48
3:D:466:LYS:NZ	9:D:1668:HOH:O	2.47	0.48
2:M:1088:LEU:HG	2:M:1092:LEU:HD12	1.95	0.48
1:A:7:LYS:NZ	1:A:186:LEU:HD21	2.29	0.48
5:P:292:ALA:O	5:P:299:TRP:HB2	2.14	0.48
3:N:421:LEU:CG	3:N:429:SER:HB3	2.43	0.48
4:O:54:LEU:HD23	4:O:58:PRO:HD2	1.96	0.48
3:N:73:CYS:SG	3:N:74:GLU:N	2.86	0.48
1:L:50:GLY:O	1:L:146:ARG:HA	2.13	0.48
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.14	0.48
3:N:81:THR:HG22	3:N:82:LYS:N	2.29	0.48
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.43	0.48
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:12:LEU:HD23	3:D:13:ALA:H	1.79	0.48
1:A:206:THR:HG22	1:A:209:GLU:CG	2.40	0.48
1:K:9:PRO:HB3	1:K:25:LEU:HD21	1.96	0.48
2:C:611:ILE:CD1	2:C:625:LEU:HD11	2.44	0.48
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.96	0.48
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.96	0.48
3:N:1321:ALA:O	3:N:1339:LYS:HG3	2.13	0.48
9:D:2077:HOH:O	5:F:349:LEU:HD13	2.13	0.48
1:L:207:PRO:HD2	9:L:3232:HOH:O	2.13	0.48
3:D:702:LEU:HD13	3:D:716:PHE:HD1	1.79	0.48
2:C:11:GLU:HB2	9:C:1190:HOH:O	2.14	0.48
2:C:851:LYS:HG3	9:C:1250:HOH:O	2.12	0.48
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.29	0.48
3:N:116:LEU:HB3	3:N:118:LEU:HG	1.96	0.48
3:N:127:LEU:HD12	3:N:128:TYR:N	2.29	0.48
3:N:126:VAL:O	3:N:132:TYR:CD1	2.67	0.48
3:N:540:LEU:HD21	3:N:603:LEU:HD23	1.95	0.48
2:M:369:PRO:HG2	9:M:2247:HOH:O	2.14	0.48
3:N:465:LEU:HB3	9:N:2360:HOH:O	2.14	0.48
3:N:407:VAL:HA	3:N:422:ALA:CB	2.44	0.48
5:F:128:ARG:HB2	9:F:652:HOH:O	2.14	0.48
3:D:561:GLY:CA	5:F:184:ARG:HH12	2.21	0.48
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.48	0.48
3:N:1384:PRO:O	3:N:1413:THR:HG21	2.13	0.48
1:B:39:PRO:O	1:B:43:ILE:HG12	2.14	0.48
2:C:143:SER:CB	2:C:276:LYS:HZ1	2.23	0.48
2:C:289:THR:O	2:C:291:ALA:N	2.46	0.48
2:C:879:ARG:HB3	9:C:1196:HOH:O	2.14	0.48
2:M:496:ILE:O	2:M:515:ALA:HB1	2.14	0.48
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.47	0.48
2:C:410:ILE:HD12	2:C:410:ILE:H	1.78	0.48
2:C:410:ILE:HD12	2:C:410:ILE:N	2.29	0.48
2:C:19:THR:HG22	2:C:19:THR:O	2.14	0.48
3:N:1177:ALA:CB	3:N:1183:ILE:HD11	2.44	0.48
2:M:644:VAL:HG22	9:M:2151:HOH:O	2.13	0.48
5:P:240:THR:O	5:P:244:ARG:HG3	2.13	0.48
3:N:47:GLU:HA	3:N:51:GLY:O	2.13	0.48
3:D:1238:MET:HG3	3:D:1257:PRO:HG3	1.95	0.48
2:C:762:LYS:HG3	2:C:786:LYS:HD2	1.95	0.48
2:M:879:ARG:H	2:M:879:ARG:HD2	1.79	0.47
1:B:50:GLY:O	1:B:146:ARG:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:693:GLU:O	4:E:48:MET:HE1	2.14	0.47
3:N:87:ARG:HA	3:N:523:ASP:HB2	1.96	0.47
3:N:147:VAL:HG21	9:N:2101:HOH:O	2.13	0.47
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.49	0.47
5:P:139:ALA:HB1	9:P:558:HOH:O	2.13	0.47
2:C:43:GLY:HA2	2:C:341:THR:OG1	2.13	0.47
5:P:358:LEU:HD21	5:P:367:MET:HE1	1.96	0.47
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.29	0.47
3:D:133:ILE:HG22	3:D:455:ARG:CA	2.43	0.47
2:C:556:ASN:HA	9:C:1448:HOH:O	2.12	0.47
1:K:180:GLN:NE2	2:M:929:ARG:HH21	2.11	0.47
2:C:926:PHE:O	2:C:930:LYS:HG3	2.12	0.47
2:C:930:LYS:HD3	9:C:1707:HOH:O	2.14	0.47
2:C:571:LEU:CD2	2:C:700:TYR:HA	2.44	0.47
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.49	0.47
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.29	0.47
3:D:1323:GLN:HG3	3:D:1324:PRO:HD2	1.95	0.47
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.49	0.47
2:M:650:ARG:HB2	2:M:653:ASP:HB2	1.94	0.47
3:N:916:TYR:CE2	3:N:920:LEU:HD13	2.49	0.47
2:C:544:THR:O	2:C:547:ILE:HG13	2.13	0.47
1:K:155:LYS:HD3	9:K:3774:HOH:O	2.14	0.47
3:D:666:ILE:H	3:D:666:ILE:HG13	1.55	0.47
2:M:614:ARG:HD3	9:M:2272:HOH:O	2.14	0.47
1:A:162:ILE:HG13	1:A:163:ASN:N	2.28	0.47
3:D:1128:VAL:O	3:D:1129:THR:C	2.51	0.47
3:N:1467:ILE:HG12	7:N:1527:MXP:H16A	1.96	0.47
4:E:94:PRO:CG	9:E:180:HOH:O	2.56	0.47
2:C:101:ILE:HG22	2:C:102:HIS:N	2.28	0.47
2:C:378:LEU:HG	2:C:382:ILE:CD1	2.44	0.47
3:N:133:ILE:HG22	3:N:455:ARG:CA	2.44	0.47
3:N:603:LEU:HA	3:N:606:ILE:HD12	1.96	0.47
2:M:276:LYS:HG2	2:M:280:LYS:HZ2	1.79	0.47
5:P:119:ILE:HD13	5:P:170:HIS:ND1	2.29	0.47
5:F:138:SER:H	5:F:140:ARG:HE	1.62	0.47
2:M:1002:GLU:HG3	3:N:744:GLN:HE22	1.79	0.47
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.95	0.47
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.38	0.47
1:A:49:PRO:CB	1:A:148:VAL:HG22	2.42	0.47
2:C:704:HIS:O	2:C:828:ALA:HA	2.14	0.47
2:C:333:ILE:N	2:C:333:ILE:HD12	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:633:VAL:C	3:N:635:PRO:HD3	2.35	0.47
5:F:187:LEU:HD23	5:F:187:LEU:C	2.34	0.47
2:M:176:VAL:O	2:M:178:PRO:HD3	2.13	0.47
3:D:62:LYS:HB2	9:D:1735:HOH:O	2.14	0.47
5:P:277:GLN:O	5:P:280:GLN:HB3	2.13	0.47
3:D:1337:GLU:HB2	9:D:1785:HOH:O	2.14	0.47
2:M:72:ARG:HB2	9:M:1985:HOH:O	2.13	0.47
3:D:1463:LYS:O	3:D:1467:ILE:HG13	2.13	0.47
1:B:69:PRO:C	1:B:71:VAL:H	2.18	0.47
2:M:262:ALA:O	2:M:264:PRO:O	2.32	0.47
3:D:403:PHE:HE2	3:D:443:VAL:N	2.12	0.47
1:B:120:VAL:HG11	9:B:416:HOH:O	2.15	0.47
5:P:321:ILE:O	5:P:327:SER:HB3	2.13	0.47
2:C:207:LEU:O	2:C:211:LEU:HB3	2.14	0.47
2:C:281:LEU:O	2:C:282:GLY:O	2.32	0.47
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.44	0.47
4:O:87:LYS:HD3	9:O:2559:HOH:O	2.15	0.47
1:K:9:PRO:HB3	1:K:25:LEU:CG	2.44	0.47
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.41	0.47
3:N:1481:VAL:CG1	4:O:18:ARG:HG3	2.44	0.47
2:C:837:ASP:O	2:C:848:VAL:HG13	2.14	0.47
3:N:1238:MET:HG3	3:N:1257:PRO:HG3	1.96	0.47
2:C:1006:HIS:O	3:D:648:MET:HE3	2.14	0.47
4:E:82:GLU:HG3	4:E:83:ASP:H	1.78	0.47
2:M:631:SER:HG	2:M:635:THR:H	1.59	0.47
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.47	0.47
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.78	0.47
4:E:4:PRO:HG2	9:E:175:HOH:O	2.12	0.47
3:D:528:VAL:HG12	3:D:529:GLN:N	2.29	0.47
2:C:1106:ASP:OD1	3:D:7:LYS:HD2	2.14	0.47
3:N:1090:ASP:OD1	3:N:1241:PHE:CZ	2.68	0.47
3:D:1408:ILE:O	3:D:1409:ALA:C	2.49	0.47
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.96	0.47
3:N:957:PRO:HB3	3:N:959:GLU:HG3	1.95	0.47
3:D:87:ARG:HB2	3:D:523:ASP:HB2	1.96	0.47
2:M:975:TYR:HA	2:M:982:PRO:HA	1.95	0.47
1:B:87:VAL:CG2	1:B:144:VAL:HG11	2.36	0.47
4:E:67:GLU:OE1	4:E:73:LEU:HD11	2.15	0.47
3:N:81:THR:HB	3:N:85:VAL:CG2	2.43	0.47
3:N:87:ARG:HD2	9:N:1572:HOH:O	2.14	0.47
2:M:670:GLN:HE22	2:M:699:PHE:C	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:772:ARG:HD3	9:F:459:HOH:O	2.15	0.47
2:M:668:LEU:O	2:M:993:PHE:CZ	2.67	0.47
5:F:358:LEU:CD2	5:F:370:LYS:HZ2	2.24	0.47
3:N:162:ARG:HA	3:N:449:SER:CB	2.44	0.47
3:D:432:TYR:O	3:D:448:GLU:HA	2.15	0.47
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.96	0.47
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.13	0.47
3:D:895:VAL:O	3:D:899:LEU:HG	2.14	0.47
2:C:923:GLU:O	2:C:927:GLY:HA3	2.15	0.47
3:N:1440:PHE:N	3:N:1440:PHE:CD2	2.82	0.47
3:N:807:ALA:HB2	9:N:1559:HOH:O	2.15	0.47
9:M:1815:HOH:O	3:N:1456:LYS:HD3	2.13	0.47
2:C:1058:ASP:OD1	2:C:1084:SER:HB3	2.14	0.47
3:N:611:GLN:CG	3:N:619:LEU:HD11	2.42	0.47
1:B:102:LYS:HA	1:B:138:LEU:O	2.15	0.47
3:N:100:ALA:CB	3:N:513:ILE:HD13	2.29	0.47
1:A:184:THR:HG23	1:A:192:LEU:CB	2.42	0.47
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.48	0.47
2:M:164:PRO:HB3	9:M:1703:HOH:O	2.14	0.47
2:M:817:PRO:HG3	5:P:288:TYR:OH	2.14	0.47
9:M:2079:HOH:O	3:N:606:ILE:HG21	2.15	0.47
3:D:119:SER:CB	3:D:123:LEU:HD13	2.44	0.47
3:N:795:VAL:HA	3:N:861:GLN:O	2.15	0.47
2:C:157:ARG:N	9:C:1172:HOH:O	2.46	0.47
3:D:109:PRO:HB2	9:D:2000:HOH:O	2.13	0.47
5:F:365:GLU:HG2	5:F:397:ILE:HA	1.96	0.47
2:C:21:ILE:HG12	2:C:455:LEU:HD21	1.96	0.47
2:M:160:ALA:O	2:M:173:ASP:HA	2.14	0.47
2:M:378:LEU:HG	2:M:382:ILE:CD1	2.44	0.47
3:N:1448:THR:O	3:N:1451:ALA:HB3	2.14	0.47
5:P:353:GLU:HG2	9:P:485:HOH:O	2.13	0.47
3:N:752:SER:HB2	9:N:1905:HOH:O	2.14	0.47
2:M:965:GLU:HG3	9:M:2274:HOH:O	2.15	0.47
3:D:589:ALA:HA	9:D:1703:HOH:O	2.12	0.47
3:D:1500:LYS:HE3	9:D:2173:HOH:O	2.13	0.47
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.45	0.47
3:D:180:LYS:HG3	3:D:183:GLU:H	1.79	0.47
2:C:313:LEU:HA	9:C:1596:HOH:O	2.15	0.47
3:D:524:LEU:C	3:D:526:PRO:HD3	2.35	0.47
3:D:80:VAL:HG12	3:D:81:THR:N	2.29	0.47
2:M:328:LEU:HD22	2:M:437:ARG:CB	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:195:LEU:C	9:L:1676:HOH:O	2.53	0.47
3:N:486:ARG:HH12	3:N:1389:LEU:HD11	1.78	0.47
1:B:27:PRO:HB3	1:B:192:LEU:CD2	2.45	0.47
3:D:75:ARG:HB2	9:D:1539:HOH:O	2.15	0.47
5:F:350:LEU:O	5:F:354:LEU:HB2	2.14	0.47
3:N:34:TYR:O	3:N:35:ARG:C	2.52	0.47
3:N:844:ALA:O	3:N:867:ARG:HB3	2.14	0.47
3:D:133:ILE:HG12	3:D:133:ILE:H	1.35	0.47
3:D:17:LYS:HA	3:D:20:SER:HB3	1.95	0.47
2:M:497:ALA:HA	2:M:515:ALA:HA	1.96	0.47
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.29	0.47
2:C:129:ILE:HG22	2:C:130:ASN:N	2.29	0.47
2:C:422:ARG:HG3	2:C:423:ALA:H	1.78	0.47
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.96	0.47
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.35	0.47
3:N:900:ILE:HG13	3:N:900:ILE:O	2.15	0.47
1:A:5:LYS:HD2	9:A:440:HOH:O	2.14	0.47
5:P:280:GLN:HG2	5:P:280:GLN:O	2.14	0.47
2:C:726:ILE:O	2:C:726:ILE:HG22	2.14	0.47
2:M:421:GLU:O	2:M:421:GLU:HG2	2.15	0.47
3:D:520:LEU:HD23	3:D:540:LEU:CD2	2.45	0.47
3:D:18:ILE:HG21	3:D:516:ALA:O	2.14	0.47
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.97	0.47
5:P:361:LEU:HD23	5:P:362:SER:N	2.29	0.47
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.97	0.47
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.96	0.47
2:M:332:ARG:HH21	2:M:338:GLU:CD	2.17	0.47
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.95	0.47
2:M:165:LEU:HD12	2:M:166:PRO:HA	1.95	0.47
2:M:267:TYR:HB2	2:M:272:ALA:CB	2.44	0.47
3:N:171:LEU:HD22	3:N:175:VAL:HB	1.96	0.47
5:P:109:GLY:O	5:P:113:ILE:HG13	2.15	0.47
5:F:140:ARG:HG3	5:F:141:VAL:N	2.29	0.47
3:N:84:ILE:O	3:N:87:ARG:HB3	2.15	0.47
2:C:279:GLU:HG3	2:C:280:LYS:N	2.30	0.47
2:C:165:LEU:HG	2:C:265:ARG:HH12	1.79	0.47
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.97	0.47
2:C:875:GLY:HA2	2:C:879:ARG:NH1	2.30	0.47
2:C:865:THR:C	9:C:1269:HOH:O	2.52	0.47
1:K:209:GLU:O	1:K:213:GLN:HG3	2.15	0.47
2:M:472:ARG:O	2:M:531:PHE:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.14	0.47
3:D:1066:THR:HG22	3:D:1069:GLU:HG3	1.96	0.47
2:C:274:ARG:O	2:C:274:ARG:HG2	2.15	0.47
5:P:160:ASP:OD1	5:P:178:ARG:NH2	2.48	0.47
5:P:81:VAL:O	5:P:85:LEU:HB2	2.14	0.47
3:N:1111:ASP:HB3	3:N:1203:LYS:HG3	1.96	0.47
3:D:455:ARG:HH11	3:D:463:GLN:HG3	1.78	0.47
1:A:133:GLU:N	9:A:320:HOH:O	2.46	0.47
3:D:637:LEU:HD11	3:D:642:CYS:CA	2.45	0.47
3:N:827:ILE:HG23	3:N:837:GLY:HA2	1.97	0.47
2:C:129:ILE:HG23	9:C:1478:HOH:O	2.14	0.47
3:D:397:LYS:CE	3:D:448:GLU:HB3	2.45	0.47
3:N:1394:VAL:HG21	9:N:1598:HOH:O	2.14	0.47
2:M:175:GLU:HB3	2:M:183:SER:OG	2.14	0.47
3:N:685:ASP:HB3	9:N:1697:HOH:O	2.14	0.47
2:M:1015:LEU:N	9:M:1708:HOH:O	2.47	0.47
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.30	0.47
4:O:39:VAL:HG21	4:O:72:ARG:HD2	1.97	0.47
1:B:185:ARG:HB3	9:D:1701:HOH:O	2.14	0.47
2:M:448:ASN:HB3	2:M:452:ILE:HD11	1.97	0.47
1:A:182:GLU:O	1:A:194:LYS:HB3	2.14	0.47
2:C:726:ILE:HG22	9:C:1346:HOH:O	2.14	0.47
3:N:1490:LYS:HB2	9:O:3444:HOH:O	2.14	0.47
2:M:1050:GLN:NE2	9:M:2160:HOH:O	2.48	0.47
2:C:958:THR:HG23	2:C:961:GLU:H	1.78	0.47
3:D:1403:LEU:HD12	9:D:1814:HOH:O	2.15	0.47
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.45	0.47
3:N:1045:MET:HG3	3:N:1073:SER:HA	1.97	0.47
3:D:907:GLU:O	3:D:911:LEU:HD13	2.15	0.47
3:D:525:ARG:N	3:D:526:PRO:HD3	2.29	0.47
3:N:582:LEU:HA	3:N:603:LEU:HD12	1.96	0.47
3:D:205:TYR:HB2	3:D:393:ILE:HG12	1.95	0.47
3:D:443:VAL:HG11	3:D:445:ARG:HE	1.80	0.47
2:M:1034:GLU:O	2:M:1037:VAL:N	2.48	0.47
2:C:290:LEU:H	2:C:290:LEU:HD23	1.78	0.47
3:N:874:GLU:HG3	9:N:1713:HOH:O	2.14	0.47
3:D:827:ILE:O	3:D:837:GLY:HA3	2.15	0.47
2:C:627:ARG:HG3	2:C:628:PHE:N	2.29	0.47
5:P:358:LEU:HD22	5:P:370:LYS:CE	2.45	0.47
5:P:234:LYS:HE2	9:P:430:HOH:O	2.14	0.47
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1341:PRO:O	3:N:1343:ALA:N	2.48	0.47
2:C:535:SER:CB	2:C:537:LYS:HG3	2.45	0.47
2:M:405:ARG:CZ	9:M:1857:HOH:O	2.63	0.47
3:N:933:ALA:O	3:N:937:TYR:HD1	1.98	0.47
2:M:648:ARG:HG3	2:M:648:ARG:O	2.14	0.47
2:M:798:GLY:H	2:M:827:VAL:CG1	2.27	0.47
1:L:15:THR:C	1:L:16:GLN:HG2	2.35	0.47
5:F:261:PRO:O	5:F:265:VAL:HG23	2.14	0.47
3:D:1212:ALA:HB3	9:D:1618:HOH:O	2.15	0.47
3:N:18:ILE:HD12	3:N:518:PRO:HD3	1.97	0.47
3:D:421:LEU:HB2	3:D:427:VAL:HG12	1.95	0.47
3:N:204:LEU:HG	3:N:441:ARG:HH12	1.80	0.47
1:B:165:ILE:HG22	9:B:502:HOH:O	2.14	0.47
2:C:497:ALA:HA	2:C:515:ALA:HA	1.96	0.47
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.30	0.47
2:C:301:GLU:O	2:C:305:PRO:HG2	2.15	0.47
2:M:551:GLU:O	3:N:1065:LEU:HB3	2.15	0.47
2:M:113:VAL:O	2:M:115:LEU:HD23	2.15	0.47
2:M:983:ILE:HG23	3:N:944:THR:O	2.15	0.47
5:F:309:LYS:O	5:F:312:GLN:HB2	2.15	0.47
3:D:65:ARG:CG	3:D:66:GLN:N	2.77	0.47
5:P:95:THR:HG22	5:P:96:LEU:HD23	1.97	0.47
3:D:983:LEU:HD13	3:D:991:GLN:OE1	2.15	0.47
1:A:89:PHE:HB3	1:A:94:LEU:HD22	1.97	0.47
3:N:593:ASN:HD21	5:P:206:GLY:HA2	1.80	0.47
3:D:844:ALA:O	3:D:867:ARG:HB3	2.15	0.47
5:P:410:TYR:O	5:P:413:SER:HB2	2.15	0.47
2:M:1060:ILE:HG22	2:M:1061:GLU:H	1.78	0.47
1:B:141:GLU:HG3	9:B:405:HOH:O	2.14	0.47
3:D:407:VAL:HA	3:D:422:ALA:CB	2.45	0.47
3:D:1478:SER:HG	3:D:1481:VAL:HG23	1.80	0.47
2:C:176:VAL:O	2:C:178:PRO:HD3	2.15	0.47
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.80	0.47
3:D:810:GLU:HG2	9:D:2253:HOH:O	2.14	0.47
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.95	0.47
5:P:372:ARG:HB3	9:P:615:HOH:O	2.14	0.47
2:C:732:ALA:O	2:C:735:ARG:HG3	2.15	0.47
2:C:1071:ILE:O	3:D:659:LYS:HB2	2.15	0.47
3:D:843:PHE:CD2	3:D:849:ALA:HA	2.49	0.47
1:K:45:LEU:HD23	9:K:1231:HOH:O	2.14	0.47
2:M:172:ILE:HD12	2:M:172:ILE:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:SER:HB2	9:B:503:HOH:O	2.14	0.47
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.97	0.47
1:B:15:THR:C	1:B:16:GLN:HG2	2.35	0.47
3:D:1051:GLU:H	3:D:1051:GLU:HG3	1.46	0.47
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.15	0.47
2:C:1035:MET:HG2	3:D:707:THR:O	2.14	0.47
2:M:224:GLU:HG3	9:M:2180:HOH:O	2.14	0.47
2:C:1025:ALA:C	2:C:1026:GLN:HG3	2.35	0.47
3:D:39:PRO:HD2	3:D:47:GLU:OE1	2.15	0.46
2:C:1115:LEU:HB3	3:D:85:VAL:CG1	2.44	0.46
5:P:288:TYR:HA	5:P:291:ILE:CG2	2.45	0.46
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.96	0.46
3:N:133:ILE:HG22	3:N:455:ARG:C	2.35	0.46
3:N:153:LEU:HD12	3:N:157:GLU:HB2	1.97	0.46
5:F:292:ALA:O	5:F:299:TRP:HB2	2.15	0.46
3:D:204:LEU:HG	3:D:441:ARG:NH1	2.30	0.46
3:N:421:LEU:HB2	3:N:427:VAL:HG12	1.96	0.46
4:O:45:ARG:HB3	9:O:1014:HOH:O	2.14	0.46
4:E:42:PRO:HD3	9:E:101:HOH:O	2.16	0.46
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.30	0.46
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.97	0.46
2:C:166:PRO:HD3	2:C:265:ARG:HG3	1.97	0.46
2:M:439:CYS:SG	2:M:541:SER:N	2.87	0.46
2:M:627:ARG:O	2:M:638:ASP:HA	2.15	0.46
3:D:481:MET:HB2	3:D:1388:ARG:NH1	2.30	0.46
2:M:751:PRO:HG3	2:M:796:GLU:HG2	1.98	0.46
3:N:1112:CYS:HB2	3:N:1195:GLN:CG	2.45	0.46
1:K:106:PRO:HG3	1:K:134:GLU:CG	2.45	0.46
2:C:1030:GLN:CD	3:D:628:ARG:HB3	2.35	0.46
3:N:702:LEU:HD23	3:N:745:MET:HE1	1.97	0.46
2:C:36:PRO:HB2	2:C:70:GLU:HG2	1.97	0.46
2:C:122:THR:HG22	2:C:123:GLU:N	2.31	0.46
2:M:815:LEU:HD23	2:M:819:VAL:O	2.15	0.46
4:O:70:THR:HG21	4:O:72:ARG:HE	1.80	0.46
2:M:851:LYS:NZ	9:M:2027:HOH:O	2.48	0.46
2:M:379:GLU:O	2:M:383:ARG:HB3	2.15	0.46
1:L:162:ILE:HA	9:L:1885:HOH:O	2.15	0.46
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.97	0.46
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.16	0.46
3:D:39:PRO:HB3	3:D:45:PHE:O	2.15	0.46
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:279:GLU:HG3	2:M:280:LYS:N	2.29	0.46
3:D:204:LEU:HA	3:D:441:ARG:NH2	2.18	0.46
3:D:204:LEU:HD21	3:D:445:ARG:NH1	2.30	0.46
3:D:422:ALA:O	3:D:427:VAL:HB	2.16	0.46
2:C:328:LEU:CD1	2:C:433:THR:HB	2.44	0.46
2:M:18:LEU:HB2	2:M:590:ASP:CB	2.44	0.46
2:C:204:GLN:NE2	2:C:222:MET:HA	2.29	0.46
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.45	0.46
1:B:217:ILE:O	1:B:221:HIS:ND1	2.43	0.46
3:N:850:LEU:O	3:N:853:VAL:HB	2.14	0.46
2:C:557:ARG:NE	2:C:560:MET:SD	2.88	0.46
5:P:398:ARG:HG3	5:P:402:ASN:ND2	2.29	0.46
3:D:863:VAL:HA	9:D:1596:HOH:O	2.14	0.46
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.97	0.46
2:M:400:PRO:HG2	9:M:1638:HOH:O	2.15	0.46
4:O:59:ASN:N	9:O:4171:HOH:O	2.48	0.46
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.96	0.46
3:D:702:LEU:HD13	3:D:716:PHE:CD1	2.50	0.46
3:N:1108:ARG:NE	3:N:1198:TYR:O	2.47	0.46
1:A:227:ASN:HD22	1:A:227:ASN:H	1.61	0.46
2:M:1078:GLU:HA	2:M:1079:PRO:HD3	1.86	0.46
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.96	0.46
3:D:527:MET:HE1	5:F:258:ILE:HD11	1.97	0.46
2:M:62:GLY:HA2	2:M:359:MET:CE	2.45	0.46
3:N:187:LYS:HG3	3:N:199:LEU:CD2	2.44	0.46
3:D:730:PRO:HA	3:D:733:CYS:SG	2.55	0.46
3:D:1037:GLN:OE1	3:D:1042:ARG:HD3	2.15	0.46
3:D:112:ILE:HD12	3:D:461:ILE:HG21	1.96	0.46
3:D:795:VAL:HG22	3:D:876:SER:HB3	1.96	0.46
5:F:319:THR:O	5:F:321:ILE:HG12	2.15	0.46
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.49	0.46
3:D:537:THR:O	5:F:317:LEU:HB2	2.15	0.46
2:C:648:ARG:HG3	2:C:648:ARG:O	2.14	0.46
3:N:1217:ILE:HD12	3:N:1480:PHE:CE2	2.51	0.46
1:L:102:LYS:HA	1:L:138:LEU:O	2.16	0.46
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.42	0.46
1:K:42:ARG:HE	2:M:857:ASP:HB3	1.79	0.46
2:C:64:LEU:HB2	2:C:359:MET:CE	2.45	0.46
2:M:459:ALA:HB1	2:M:467:ILE:CG2	2.46	0.46
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.46	0.46
2:M:760:SER:O	2:M:786:LYS:N	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:139:GLN:HA	2:C:411:SER:O	2.15	0.46
2:C:147:TYR:HE1	9:C:1347:HOH:O	1.98	0.46
2:C:271:GLU:HA	2:C:275:TYR:CD1	2.51	0.46
3:D:677:LEU:HD21	9:D:2185:HOH:O	2.14	0.46
3:N:705:ALA:HB2	9:N:1965:HOH:O	2.16	0.46
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.45	0.46
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.96	0.46
3:N:1195:GLN:CG	3:N:1196:THR:N	2.78	0.46
3:D:951:ILE:CD1	3:D:1062:ARG:HG3	2.45	0.46
1:B:23:PHE:O	1:B:196:THR:HA	2.14	0.46
2:M:426:ASP:OD1	2:M:427:VAL:HG22	2.14	0.46
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.45	0.46
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.79	0.46
2:C:160:ALA:O	2:C:173:ASP:HA	2.15	0.46
3:D:1382:THR:OG1	3:D:1418:LYS:HE3	2.16	0.46
5:P:420:ASP:O	5:P:422:LEU:HD23	2.16	0.46
1:L:200:TRP:HZ3	9:N:2120:HOH:O	1.98	0.46
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.51	0.46
3:D:928:ALA:O	3:D:931:LEU:HB2	2.16	0.46
5:P:123:ASP:HB2	5:P:126:LEU:HD13	1.96	0.46
3:D:23:TYR:O	3:D:49:ILE:HG23	2.16	0.46
2:M:468:ARG:HB3	2:M:487:THR:HA	1.97	0.46
3:N:18:ILE:HD12	3:N:518:PRO:CD	2.45	0.46
3:N:403:PHE:CD1	3:N:405:ASP:O	2.62	0.46
1:B:85:LEU:HD13	1:B:127:LEU:HD23	1.98	0.46
1:L:89:PHE:HB3	1:L:94:LEU:HD22	1.98	0.46
5:F:171:LYS:HA	9:F:473:HOH:O	2.16	0.46
5:F:151:LEU:HD11	9:F:626:HOH:O	2.14	0.46
2:C:798:GLY:H	2:C:827:VAL:CG1	2.29	0.46
3:D:795:VAL:HG12	3:D:796:ARG:N	2.31	0.46
3:D:860:LEU:O	3:D:877:PRO:HD2	2.14	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.31	0.46
5:F:116:LEU:CB	5:F:127:ILE:HD12	2.46	0.46
2:C:89:THR:HA	2:C:129:ILE:O	2.15	0.46
4:O:82:GLU:HG3	4:O:83:ASP:H	1.80	0.46
2:C:31:GLN:NE2	2:C:71:TYR:OH	2.49	0.46
5:P:209:PHE:HE2	5:P:213:ILE:HD11	1.79	0.46
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.97	0.46
2:C:479:VAL:HG11	2:C:532:MET:HE2	1.97	0.46
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.50	0.46
2:M:718:GLY:HA3	2:M:761:PHE:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:588:VAL:HG21	9:C:1718:HOH:O	2.15	0.46
1:B:128:HIS:HE1	1:B:131:THR:HG23	1.81	0.46
2:M:1077:PRO:HG3	9:M:2203:HOH:O	2.15	0.46
1:L:69:PRO:O	1:L:71:VAL:HG23	2.15	0.46
1:B:60:ASP:HB2	1:B:137:ARG:NH1	2.31	0.46
1:B:57:TYR:O	1:B:140:MET:HA	2.15	0.46
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.15	0.46
2:C:939:ARG:HD3	2:C:975:TYR:CE2	2.51	0.46
2:C:975:TYR:HA	2:C:982:PRO:HA	1.97	0.46
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.50	0.46
2:M:491:GLU:OE1	2:M:516:ARG:NH2	2.48	0.46
3:D:191:LEU:HD13	3:D:393:ILE:HG21	1.97	0.46
3:D:421:LEU:HD11	3:D:446:VAL:CG2	2.45	0.46
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.80	0.46
1:K:132:LEU:HD12	1:K:132:LEU:N	2.30	0.46
3:D:455:ARG:NH1	3:D:463:GLN:HG3	2.31	0.46
5:P:396:ARG:HA	5:P:399:GLN:HB2	1.98	0.46
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.98	0.46
2:M:810:ASP:N	2:M:811:PRO:HD3	2.30	0.46
2:C:575:GLN:O	2:C:667:ALA:HB1	2.15	0.46
3:N:145:VAL:HG22	3:N:146:PRO:CD	2.46	0.46
2:C:762:LYS:C	2:C:763:GLY:O	2.52	0.46
1:L:73:GLU:CD	1:L:130:ALA:HA	2.34	0.46
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.16	0.46
4:E:13:VAL:HG23	9:E:151:HOH:O	2.14	0.46
3:D:1377:LYS:NZ	9:D:1537:HOH:O	2.45	0.46
3:N:1410:GLU:OE2	3:N:1414:PRO:HG3	2.16	0.46
3:D:53:ILE:HG23	3:D:54:LYS:N	2.30	0.46
3:N:119:SER:HB3	9:N:1620:HOH:O	2.15	0.46
2:M:333:ILE:N	2:M:333:ILE:HD12	2.30	0.46
3:D:421:LEU:HD11	3:D:446:VAL:HG21	1.97	0.46
3:D:443:VAL:HG22	3:D:444:VAL:H	1.81	0.46
3:N:407:VAL:HG22	3:N:422:ALA:HB2	1.98	0.46
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.98	0.46
3:D:73:CYS:HB2	9:D:2023:HOH:O	2.14	0.46
2:C:140:ILE:HD13	2:C:331:ARG:HH21	1.80	0.46
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.31	0.46
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.14	0.46
2:C:875:GLY:HA2	2:C:879:ARG:HH11	1.80	0.46
3:D:1389:LEU:HD12	3:D:1390:LEU:HG	1.98	0.46
1:B:176:ARG:NH2	3:D:847:ASP:HA	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:644:LEU:HD23	3:N:718:PRO:HB3	1.98	0.46
1:B:179:PHE:HZ	9:B:437:HOH:O	1.99	0.46
2:C:89:THR:HB	2:C:129:ILE:O	2.16	0.46
2:C:929:ARG:HH12	2:C:940:GLU:CD	2.19	0.46
3:N:1382:THR:HG21	3:N:1418:LYS:NZ	2.31	0.46
3:N:937:TYR:O	3:N:941:PHE:HD1	1.99	0.46
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.81	0.46
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.98	0.46
3:N:137:PRO:HD2	3:N:453:ASP:CG	2.36	0.46
3:N:1426:LYS:HA	9:N:1705:HOH:O	2.15	0.46
2:M:1097:LEU:HD21	3:N:103:TRP:HZ3	1.81	0.46
3:D:1335:LEU:CD2	3:D:1344:VAL:HA	2.29	0.46
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.43	0.46
2:M:352:ALA:C	2:M:355:VAL:HG12	2.36	0.46
3:D:409:VAL:O	3:D:437:VAL:HG21	2.16	0.46
3:N:1385:GLY:CA	3:N:1413:THR:HG21	2.46	0.46
3:D:693:GLU:HG3	4:E:48:MET:CE	2.46	0.46
3:D:783:ARG:NH1	3:D:1029:ARG:HG3	2.30	0.46
3:N:795:VAL:HG22	3:N:876:SER:HB3	1.97	0.46
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.98	0.46
2:M:988:VAL:HG11	3:N:949:ILE:O	2.16	0.46
1:B:205:VAL:HB	9:B:448:HOH:O	2.15	0.46
5:F:398:ARG:HG3	5:F:402:ASN:ND2	2.31	0.46
3:D:131:LYS:HG3	3:D:572:ARG:HH21	1.81	0.46
4:E:26:ARG:HH11	4:E:29:GLN:CD	2.18	0.46
2:M:518:LYS:HG3	9:M:1841:HOH:O	2.16	0.46
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.46	0.46
2:M:82:GLU:OE2	2:M:86:LYS:HE3	2.16	0.46
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.45	0.46
3:D:498:VAL:CG2	3:D:499:VAL:N	2.79	0.46
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.97	0.46
2:C:799:ILE:N	2:C:799:ILE:HD13	2.30	0.46
2:M:122:THR:HG22	2:M:123:GLU:N	2.30	0.46
5:F:241:TRP:HB2	9:F:438:HOH:O	2.15	0.46
3:N:1344:VAL:HG12	3:N:1348:LEU:HD22	1.97	0.46
2:M:211:LEU:HD11	2:M:308:ARG:HA	1.98	0.46
3:D:525:ARG:HA	3:D:538:SER:OG	2.15	0.46
3:N:560:GLN:O	5:P:184:ARG:NH2	2.48	0.46
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.46	0.46
2:M:540:PHE:HE1	2:M:906:PHE:HE1	1.64	0.46
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:115:LEU:HD22	2:M:373:VAL:CG1	2.41	0.46
5:F:214:GLN:O	5:F:217:ASN:HB2	2.16	0.46
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.15	0.46
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.97	0.46
2:C:1067:TYR:CE1	3:D:655:PRO:HG3	2.49	0.46
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.31	0.46
5:P:400:ILE:HA	9:P:540:HOH:O	2.15	0.46
1:K:36:LEU:O	1:K:39:PRO:HD2	2.16	0.46
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.80	0.46
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.97	0.46
3:D:1083:ASP:O	3:D:1087:ARG:HG3	2.15	0.46
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.97	0.46
3:D:48:ARG:NH2	9:D:1710:HOH:O	2.48	0.46
3:D:866:VAL:HG12	3:D:867:ARG:N	2.30	0.46
2:M:103:LYS:HB3	9:M:2059:HOH:O	2.15	0.46
5:P:266:GLU:O	5:P:270:LYS:HG3	2.16	0.46
2:M:1097:LEU:N	2:M:1097:LEU:HD12	2.30	0.46
3:D:911:LEU:O	3:D:915:VAL:HG23	2.15	0.46
3:D:45:PHE:HD1	3:D:86:ARG:HH22	1.64	0.46
3:N:131:LYS:HD2	5:P:83:GLN:OE1	2.15	0.46
2:M:143:SER:C	2:M:163:ILE:HD11	2.37	0.46
2:M:110:GLU:HB2	2:M:369:PRO:HG3	1.97	0.46
3:N:18:ILE:HG21	3:N:516:ALA:O	2.15	0.46
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.46	0.46
4:O:53:GLY:C	4:O:55:PHE:N	2.67	0.46
2:M:1115:LEU:CB	3:N:85:VAL:HG13	2.42	0.46
2:M:538:GLN:CD	9:M:1660:HOH:O	2.54	0.46
3:D:1485:GLN:HE21	4:E:80:VAL:H	1.63	0.46
5:P:138:SER:H	5:P:140:ARG:HE	1.64	0.46
3:N:884:ARG:O	3:N:888:GLU:HB2	2.16	0.46
3:D:27:GLU:O	3:D:28:LYS:HG2	2.16	0.46
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.31	0.46
3:D:704:ARG:CG	3:D:705:ALA:H	2.24	0.46
2:C:564:MET:SD	2:C:846:LYS:HE3	2.55	0.46
5:P:88:ILE:HD13	5:P:193:ARG:CB	2.46	0.46
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.81	0.46
1:A:198:ARG:HD2	1:A:200:TRP:CH2	2.51	0.46
2:M:976:ASP:HB2	2:M:979:THR:HG22	1.96	0.46
1:K:46:SER:HB3	2:M:856:GLU:CG	2.45	0.46
2:M:1109:VAL:HG11	3:N:5:VAL:HG13	1.97	0.46
5:F:368:VAL:O	5:F:372:ARG:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1295:GLU:HB3	3:D:1300:SER:HB3	1.97	0.46
2:C:841:ASN:C	2:C:841:ASN:HD22	2.19	0.46
5:F:176:ILE:HA	9:F:463:HOH:O	2.16	0.46
1:K:51:THR:HA	1:K:145:ASP:O	2.16	0.46
3:D:539:ASP:OD2	5:F:318:GLU:HB2	2.15	0.46
1:A:212:ASN:O	1:A:215:VAL:HG22	2.16	0.46
2:C:1087:VAL:HG12	3:D:610:LYS:HZ3	1.81	0.45
2:C:6:PHE:HB2	2:C:908:GLY:O	2.16	0.45
3:N:573:MET:SD	5:P:210:LEU:HB3	2.56	0.45
2:M:265:ARG:NH2	9:M:2236:HOH:O	2.48	0.45
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.45	0.45
1:L:124:ASN:OD1	1:L:127:LEU:HB2	2.17	0.45
2:C:411:SER:OG	2:C:452:ILE:HG23	2.16	0.45
2:M:1114:GLY:HA2	9:M:1820:HOH:O	2.15	0.45
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.41	0.45
3:N:1283:ILE:CG2	3:N:1290:LEU:HD21	2.46	0.45
4:O:87:LYS:HB3	9:O:2559:HOH:O	2.15	0.45
5:F:148:LYS:HE3	9:F:489:HOH:O	2.16	0.45
3:D:803:GLY:CA	9:D:1726:HOH:O	2.64	0.45
1:B:9:PRO:HD3	9:B:452:HOH:O	2.17	0.45
2:M:9:ILE:HD11	2:M:537:LYS:CE	2.45	0.45
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.31	0.45
2:M:217:LEU:HB2	2:M:311:PHE:CE1	2.50	0.45
2:C:86:LYS:HD2	9:C:1425:HOH:O	2.16	0.45
2:C:437:ARG:HG2	2:C:467:ILE:HG22	1.97	0.45
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.97	0.45
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.31	0.45
3:N:625:TYR:O	3:N:749:VAL:HG23	2.16	0.45
3:N:102:ILE:HD12	3:N:579:ASP:CG	2.36	0.45
4:O:70:THR:HG22	4:O:71:GLY:N	2.31	0.45
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.99	0.45
2:C:791:ARG:HD3	9:C:1572:HOH:O	2.15	0.45
3:D:1267:ARG:HG2	3:D:1267:ARG:O	2.16	0.45
3:D:1455:LYS:NZ	9:D:2342:HOH:O	2.48	0.45
1:A:69:PRO:C	1:A:71:VAL:H	2.18	0.45
3:N:1264:GLU:HG2	3:N:1425:THR:H	1.81	0.45
2:C:18:LEU:CD2	2:C:542:VAL:HG11	2.45	0.45
3:D:907:GLU:HG2	3:D:908:LYS:H	1.81	0.45
2:M:914:ILE:HA	2:M:914:ILE:HD12	1.75	0.45
3:N:570:GLU:CA	5:P:214:GLN:HE22	2.29	0.45
5:F:288:TYR:HA	5:F:291:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:165:LEU:HA	2:M:166:PRO:O	2.15	0.45
2:M:49:ARG:HG2	2:M:266:ARG:HH12	1.82	0.45
2:M:367:LEU:O	2:M:371:LYS:HB2	2.17	0.45
3:N:204:LEU:O	3:N:393:ILE:HA	2.15	0.45
3:N:23:TYR:O	3:N:24:GLY:O	2.35	0.45
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.97	0.45
2:C:1044:GLY:CA	4:E:17:TYR:HE1	2.21	0.45
5:P:142:ARG:NH1	5:P:150:THR:OG1	2.49	0.45
2:C:536:PRO:HB2	9:C:1738:HOH:O	2.16	0.45
3:D:736:PHE:O	3:D:738:ALA:N	2.50	0.45
5:F:94:LEU:HD12	5:F:98:GLU:OE2	2.16	0.45
5:F:80:PRO:O	5:F:83:GLN:HB2	2.16	0.45
3:N:1203:LYS:HG2	9:N:1955:HOH:O	2.15	0.45
3:D:66:GLN:O	3:D:67:ARG:C	2.53	0.45
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.46	0.45
2:C:916:GLU:O	2:C:919:ALA:HB3	2.17	0.45
3:D:195:VAL:HG12	3:D:196:VAL:N	2.31	0.45
1:K:158:ILE:HG23	1:K:158:ILE:HD12	1.88	0.45
1:K:55:SER:HB2	1:K:158:ILE:HG21	1.98	0.45
2:C:425:PHE:O	2:C:429:ASP:OD2	2.35	0.45
5:P:157:GLU:HG2	9:P:498:HOH:O	2.16	0.45
3:D:1031:ASN:O	3:D:1034:GLN:HB2	2.16	0.45
1:K:162:ILE:HG13	1:K:163:ASN:N	2.32	0.45
2:M:1044:GLY:HA3	4:O:17:TYR:HE1	1.80	0.45
4:O:16:LYS:HB2	9:O:3818:HOH:O	2.14	0.45
5:P:300:ASP:HB3	9:P:433:HOH:O	2.16	0.45
3:N:157:GLU:HA	3:N:160:GLU:OE1	2.16	0.45
3:N:455:ARG:NH2	9:N:2369:HOH:O	2.49	0.45
5:P:419:ARG:O	5:P:421:PHE:N	2.49	0.45
3:D:421:LEU:HB3	3:D:444:VAL:HG11	1.98	0.45
2:C:460:ARG:NE	2:C:485:TYR:CZ	2.84	0.45
2:C:271:GLU:HA	2:C:275:TYR:HD1	1.81	0.45
2:C:551:GLU:HA	2:C:906:PHE:CE2	2.51	0.45
3:D:1116:ASN:N	3:D:1116:ASN:ND2	2.63	0.45
2:C:905:ILE:H	2:C:905:ILE:CD1	2.13	0.45
3:N:584:ASN:HD21	3:N:590:PRO:CD	2.29	0.45
2:M:838:LYS:HZ2	2:M:846:LYS:HE2	1.81	0.45
3:N:999:THR:O	3:N:1003:VAL:HG13	2.16	0.45
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.99	0.45
2:M:19:THR:HG22	2:M:19:THR:O	2.16	0.45
2:C:1002:GLU:HA	9:C:1756:HOH:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1378:TYR:HA	3:N:1394:VAL:HA	1.98	0.45
3:D:699:VAL:H	3:D:756:GLN:NE2	2.15	0.45
3:D:710:ARG:NH2	3:D:1210:SER:HB2	2.31	0.45
3:D:1350:GLU:OE2	3:D:1357:ARG:NH1	2.48	0.45
1:A:158:ILE:HG22	1:A:160:ASP:H	1.81	0.45
3:N:102:ILE:HD12	3:N:579:ASP:CB	2.45	0.45
5:F:82:ARG:O	5:F:86:HIS:HB2	2.15	0.45
2:M:51:THR:HB	2:M:348:LEU:HD23	1.98	0.45
3:D:814:ALA:O	3:D:818:ARG:HG3	2.17	0.45
3:N:684:LYS:HD2	9:N:2165:HOH:O	2.16	0.45
3:D:754:PHE:HA	4:E:24:ALA:HB1	1.98	0.45
3:D:667:ALA:HB2	3:D:676:MET:SD	2.56	0.45
3:N:1369:GLU:O	3:N:1372:VAL:HG12	2.17	0.45
3:D:87:ARG:HA	3:D:523:ASP:HB2	1.98	0.45
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.46	0.45
2:C:110:GLU:HB2	2:C:369:PRO:HG3	1.98	0.45
2:C:64:LEU:HB2	2:C:359:MET:SD	2.56	0.45
2:M:418:LEU:CD1	2:M:418:LEU:N	2.80	0.45
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.45	0.45
2:C:114:PHE:CE2	5:F:283:GLY:HA3	2.51	0.45
3:D:1110:ALA:O	3:D:1111:ASP:C	2.52	0.45
4:O:75:PHE:HE1	9:O:3411:HOH:O	1.98	0.45
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.46	0.45
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.46	0.45
3:N:93:ILE:HD13	3:N:548:ILE:HD11	1.98	0.45
1:B:169:ALA:HB1	1:B:171:PHE:HD2	1.80	0.45
5:F:336:GLU:N	9:F:562:HOH:O	2.48	0.45
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.50	0.45
5:F:371:LEU:HB2	5:F:372:ARG:NH1	2.32	0.45
2:M:285:LEU:HD22	9:M:1655:HOH:O	2.15	0.45
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.84	0.45
3:D:684:LYS:HD3	3:D:686:GLU:OE1	2.17	0.45
2:M:752:GLY:H	2:M:792:VAL:HB	1.82	0.45
3:D:1492:LEU:HA	9:D:2354:HOH:O	2.16	0.45
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.51	0.45
1:L:156:HIS:CG	1:L:157:GLY:N	2.84	0.45
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.98	0.45
1:L:165:ILE:HG13	1:L:165:ILE:O	2.16	0.45
4:O:76:GLY:HA3	4:O:79:LEU:HD12	1.98	0.45
3:N:1505:ALA:HB1	9:N:2193:HOH:O	2.17	0.45
4:E:44:GLU:HG2	9:E:142:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1060:ILE:HG22	2:C:1061:GLU:H	1.81	0.45
3:D:540:LEU:HD21	3:D:603:LEU:HD23	1.98	0.45
3:D:72:VAL:CG2	3:D:78:VAL:H	2.29	0.45
2:C:54:ILE:HG23	2:C:54:ILE:O	2.16	0.45
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.99	0.45
3:N:126:VAL:CG1	3:N:132:TYR:HB2	2.47	0.45
3:N:675:ARG:HH22	5:P:421:PHE:HE2	1.63	0.45
4:E:31:LEU:HD23	4:E:35:PHE:CE1	2.52	0.45
3:N:45:PHE:HD1	3:N:86:ARG:NH2	2.15	0.45
2:C:265:ARG:HD3	2:C:267:TYR:HB3	1.99	0.45
3:N:796:ARG:NH1	3:N:861:GLN:HE21	2.14	0.45
2:C:474:VAL:HA	2:C:478:VAL:O	2.17	0.45
3:N:1420:LEU:HD23	9:N:1853:HOH:O	2.15	0.45
5:F:394:ARG:NE	5:F:398:ARG:HB2	2.31	0.45
5:P:91:VAL:HG21	9:P:550:HOH:O	2.17	0.45
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.98	0.45
2:M:118:ILE:HD12	2:M:118:ILE:O	2.16	0.45
5:P:360:LYS:HG2	9:P:511:HOH:O	2.17	0.45
3:N:1299:PHE:HD2	3:N:1299:PHE:N	2.15	0.45
3:D:760:ARG:HD2	4:E:3:GLU:OE1	2.17	0.45
3:N:939:PHE:O	3:N:943:THR:HG23	2.17	0.45
2:C:443:THR:HA	2:C:444:PRO:HD3	1.79	0.45
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.17	0.45
3:N:779:ALA:HA	9:N:1773:HOH:O	2.16	0.45
5:F:340:SER:O	5:F:342:VAL:N	2.50	0.45
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.31	0.45
3:D:563:PRO:HG2	5:F:188:ILE:HG21	1.99	0.45
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.51	0.45
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.46	0.45
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.82	0.45
3:N:560:GLN:NE2	5:P:221:ILE:HB	2.31	0.45
3:N:403:PHE:CE2	3:N:443:VAL:N	2.85	0.45
3:N:409:VAL:HG12	3:N:435:VAL:HG11	1.98	0.45
2:C:418:LEU:CD1	2:C:418:LEU:N	2.79	0.45
3:N:861:GLN:HG2	3:N:861:GLN:H	1.55	0.45
3:N:704:ARG:CG	3:N:705:ALA:H	2.27	0.45
3:D:95:LEU:HD23	3:D:574:LEU:HD11	1.98	0.45
3:N:28:LYS:HG3	3:N:41:ARG:CD	2.47	0.45
3:N:728:LEU:HD12	9:N:1892:HOH:O	2.17	0.45
2:M:455:LEU:HD12	2:M:456:ALA:N	2.32	0.45
3:N:1084:THR:HG21	9:N:2214:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:892:ASP:O	3:D:895:VAL:N	2.49	0.45
2:C:598:GLU:HG3	2:C:623:TYR:OH	2.17	0.45
5:P:351:SER:O	5:P:355:GLU:HB2	2.15	0.45
1:A:28:LEU:HD23	1:A:28:LEU:HA	1.75	0.45
1:A:151:VAL:H	1:A:169:ALA:HB3	1.81	0.45
3:D:617:ASN:C	3:D:618:LEU:HD12	2.37	0.45
2:M:1059:ASP:CG	2:M:1062:GLY:HA3	2.37	0.45
1:B:61:VAL:H	1:B:137:ARG:HH22	1.65	0.45
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.75	0.45
3:N:569:ASN:ND2	5:P:210:LEU:HD22	2.29	0.45
9:N:1980:HOH:O	5:P:210:LEU:HD12	2.17	0.45
3:N:486:ARG:HG2	9:N:1964:HOH:O	2.15	0.45
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.98	0.45
2:C:469:THR:OG1	2:C:470:PRO:HD2	2.16	0.45
2:C:1009:SER:CB	3:D:651:GLU:HG2	2.47	0.45
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.98	0.45
2:M:551:GLU:HB3	2:M:906:PHE:CD2	2.51	0.45
3:D:1108:ARG:HB2	9:D:2164:HOH:O	2.15	0.45
3:D:1487:VAL:HG13	3:D:1491:THR:HB	1.97	0.45
5:F:284:ARG:HB2	9:F:621:HOH:O	2.17	0.45
5:F:393:THR:HG22	5:F:394:ARG:H	1.82	0.45
3:N:770:LEU:HB2	3:N:1210:SER:O	2.17	0.45
2:C:837:ASP:OD1	2:C:999:HIS:NE2	2.49	0.45
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.45	0.45
3:D:584:ASN:HD21	3:D:590:PRO:HB2	1.82	0.45
2:C:739:GLU:CD	2:C:742:VAL:HB	2.37	0.45
3:D:1242:HIS:NE2	3:D:1266:ARG:HD3	2.31	0.45
3:N:586:ARG:HG2	9:N:2201:HOH:O	2.16	0.45
2:C:342:ASP:O	2:C:346:VAL:HG23	2.16	0.45
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.45	0.45
3:D:640:HIS:HE1	4:E:3:GLU:HG2	1.80	0.45
3:N:838:ARG:HB3	9:N:2366:HOH:O	2.17	0.45
3:D:1285:GLU:HG2	3:D:1285:GLU:O	2.17	0.45
3:N:1335:LEU:O	3:N:1335:LEU:HG	2.16	0.45
5:P:125:ASP:HA	9:P:579:HOH:O	2.16	0.45
3:N:16:GLU:HG3	9:N:1701:HOH:O	2.16	0.45
3:N:1350:GLU:HG3	3:N:1350:GLU:O	2.16	0.45
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.46	0.45
3:N:1372:VAL:HG13	3:N:1373:ARG:N	2.32	0.45
3:N:119:SER:CB	3:N:123:LEU:HD13	2.46	0.45
2:C:471:TYR:CD2	2:C:496:ILE:HG21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:18:LEU:HD13	2:M:590:ASP:OD2	2.16	0.45
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.82	0.45
2:C:266:ARG:HA	2:C:288:ARG:HD3	1.97	0.45
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.45	0.45
2:C:971:LYS:HG2	9:C:1494:HOH:O	2.17	0.45
5:F:361:LEU:HD13	5:F:366:ALA:HB2	1.98	0.45
2:C:810:ASP:H	2:C:811:PRO:HD3	1.81	0.45
4:E:37:ASN:HA	4:E:93:TYR:CE2	2.52	0.45
2:M:715:THR:CG2	2:M:717:LEU:HG	2.45	0.45
2:M:694:LEU:CD1	2:M:868:ASP:HB3	2.47	0.45
3:N:896:ALA:O	3:N:900:ILE:HG23	2.17	0.45
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.46	0.45
2:C:475:VAL:HG12	2:C:475:VAL:O	2.17	0.45
2:M:1048:THR:O	2:M:1052:MET:HG2	2.17	0.45
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.17	0.45
3:D:72:VAL:HG23	3:D:78:VAL:N	2.32	0.45
5:P:132:ARG:HB3	5:P:136:LEU:HD21	1.99	0.45
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.98	0.45
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.46	0.45
2:C:13:ILE:HG12	2:C:534:VAL:HG13	1.98	0.45
2:C:185:LYS:NZ	2:C:190:LYS:HE2	2.32	0.45
3:N:863:VAL:HG11	9:N:2345:HOH:O	2.17	0.45
2:M:987:ILE:HG22	2:M:988:VAL:O	2.17	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.99	0.45
2:M:9:ILE:HD11	2:M:537:LYS:HE2	1.98	0.45
2:M:537:LYS:HG2	2:M:537:LYS:H	1.44	0.45
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.72	0.45
2:M:854:PRO:C	2:M:856:GLU:N	2.70	0.45
2:C:670:GLN:HE22	2:C:699:PHE:C	2.21	0.45
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.97	0.45
2:C:926:PHE:HE1	2:C:929:ARG:NH1	2.15	0.45
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.79	0.45
2:C:841:ASN:HD21	2:C:845:ASN:N	2.15	0.45
1:A:158:ILE:HG22	1:A:159:LYS:N	2.32	0.45
3:D:141:ILE:HG13	3:D:142:LEU:N	2.31	0.45
1:A:64:GLU:O	1:A:64:GLU:HG2	2.14	0.45
3:N:1045:MET:HG3	3:N:1073:SER:OG	2.17	0.45
3:N:103:TRP:NE1	3:N:1444:THR:HG23	2.31	0.45
3:D:31:THR:HG23	3:D:45:PHE:HE2	1.80	0.45
2:C:939:ARG:HB3	2:C:982:PRO:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:358:ARG:HD3	2:C:371:LYS:O	2.17	0.45
2:M:165:LEU:O	2:M:265:ARG:HB2	2.17	0.45
3:D:76:CYS:N	9:D:1539:HOH:O	2.49	0.45
1:B:55:SER:HB2	1:B:158:ILE:HD13	1.96	0.45
3:N:50:PHE:HB3	3:N:522:PRO:CG	2.46	0.45
3:N:54:LYS:O	3:N:55:ASP:O	2.34	0.45
2:M:673:LEU:CD2	2:M:867:VAL:HG12	2.46	0.45
2:C:1109:VAL:CG1	3:D:5:VAL:HG13	2.46	0.45
3:N:1376:MET:HG2	3:N:1421:LEU:HD12	1.98	0.45
2:C:338:GLU:HA	2:C:341:THR:HG22	1.99	0.45
2:M:90:TYR:HE1	9:M:2242:HOH:O	2.00	0.45
2:C:889:HIS:HD2	2:C:970:GLY:HA3	1.81	0.45
3:D:637:LEU:HD12	3:D:641:GLN:HB2	1.99	0.45
3:N:500:ARG:HG3	3:N:500:ARG:HH11	1.82	0.45
1:K:198:ARG:C	1:K:199:ILE:HD12	2.37	0.45
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.99	0.45
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.38	0.45
3:D:1087:ARG:CD	3:D:1236:LEU:O	2.65	0.45
2:M:572:ILE:HD11	2:M:701:THR:HB	1.99	0.45
3:D:1254:GLN:HB2	9:D:1984:HOH:O	2.17	0.45
3:D:1368:ILE:HG13	3:D:1368:ILE:H	1.57	0.45
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.98	0.45
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.16	0.45
3:D:609:GLY:O	3:D:610:LYS:O	2.35	0.44
2:M:1058:ASP:OD1	2:M:1084:SER:HB3	2.16	0.44
2:M:281:LEU:O	2:M:282:GLY:O	2.35	0.44
3:D:514:LEU:HA	9:D:1709:HOH:O	2.15	0.44
2:C:102:HIS:CE1	2:C:365:ASP:HA	2.52	0.44
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.17	0.44
3:N:486:ARG:N	9:N:1964:HOH:O	2.49	0.44
3:D:1465:ASN:HA	3:D:1465:ASN:HD22	1.50	0.44
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.81	0.44
2:C:221:LEU:HD11	9:C:1633:HOH:O	2.17	0.44
2:C:750:LYS:HG3	3:D:681:ARG:NH2	2.24	0.44
3:N:860:LEU:HB2	9:N:2139:HOH:O	2.17	0.44
5:F:420:ASP:O	5:F:422:LEU:HD23	2.16	0.44
2:M:988:VAL:HG13	3:N:948:THR:OG1	2.17	0.44
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.46	0.44
2:C:410:ILE:CD1	2:C:455:LEU:HB3	2.46	0.44
3:D:169:TYR:HA	3:D:170:PRO:HD3	1.82	0.44
2:M:690:ILE:HG12	2:M:694:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.99	0.44
2:M:863:ASP:OD1	2:M:865:THR:HG22	2.16	0.44
5:P:340:SER:OG	5:P:342:VAL:HG23	2.17	0.44
4:O:32:ARG:HD2	9:O:4200:HOH:O	2.16	0.44
3:N:611:GLN:OE1	3:N:619:LEU:HD11	2.17	0.44
3:N:1263:PHE:O	3:N:1375:MET:HE2	2.18	0.44
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.52	0.44
3:N:1010:ASN:HA	9:N:1747:HOH:O	2.17	0.44
3:N:455:ARG:HA	9:N:2093:HOH:O	2.17	0.44
5:F:256:ARG:HH12	5:F:311:ALA:HA	1.82	0.44
2:M:355:VAL:CG2	2:M:372:LEU:HG	2.48	0.44
3:N:72:VAL:HG23	3:N:78:VAL:N	2.30	0.44
3:D:1161:GLU:CG	3:D:1164:ARG:HD2	2.46	0.44
3:D:625:TYR:O	3:D:749:VAL:HG23	2.16	0.44
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.98	0.44
5:F:191:ASN:OD1	5:F:194:LEU:HD13	2.17	0.44
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.30	0.44
3:N:169:TYR:HA	3:N:170:PRO:HD3	1.83	0.44
1:L:228:PRO:O	1:L:229:GLN:HG3	2.17	0.44
5:P:226:LYS:HD2	5:P:242:TRP:HZ2	1.82	0.44
2:C:598:GLU:O	2:C:651:LYS:HG3	2.16	0.44
3:N:708:LEU:HD23	3:N:708:LEU:HA	1.80	0.44
2:M:861:LEU:HD21	2:M:925:TYR:HE2	1.81	0.44
3:D:960:LYS:HG2	3:D:964:LEU:HD12	1.99	0.44
2:C:1058:ASP:HB2	3:D:621:LYS:HE2	1.99	0.44
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.20	0.44
3:N:1207:TYR:H	3:N:1366:LYS:HZ1	1.65	0.44
1:L:152:PRO:HG2	3:N:857:ILE:HD12	2.00	0.44
2:M:729:LEU:HD13	3:N:675:ARG:NH2	2.33	0.44
3:D:560:GLN:OE1	5:F:218:GLN:HG3	2.18	0.44
2:M:762:LYS:C	2:M:763:GLY:O	2.53	0.44
2:C:208:ALA:CA	2:C:221:LEU:HD21	2.48	0.44
2:C:265:ARG:CG	2:C:266:ARG:N	2.80	0.44
2:C:684:PHE:HD2	3:D:740:PHE:HE1	1.65	0.44
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.33	0.44
2:M:12:VAL:HG13	2:M:13:ILE:HG23	1.98	0.44
3:D:28:LYS:CG	3:D:41:ARG:HH11	2.24	0.44
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.80	0.44
5:F:94:LEU:HB2	5:F:98:GLU:CD	2.37	0.44
2:M:36:PRO:HG3	2:M:71:TYR:CE2	2.53	0.44
2:M:1021:LEU:HD13	5:P:331:ASP:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:402:SER:OG	2:C:566:THR:O	2.36	0.44
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.99	0.44
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.48	0.44
2:C:601:GLY:O	2:C:649:VAL:HG22	2.18	0.44
3:N:1159:ARG:CZ	3:N:1159:ARG:HB3	2.47	0.44
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.99	0.44
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.52	0.44
2:C:690:ILE:HG12	2:C:694:LEU:HD12	1.99	0.44
3:D:814:ALA:HB2	9:D:1889:HOH:O	2.18	0.44
2:C:258:TYR:HB3	9:C:1773:HOH:O	2.17	0.44
3:N:666:ILE:HG13	3:N:666:ILE:H	1.61	0.44
2:C:380:ALA:O	2:C:384:GLU:HB2	2.18	0.44
5:P:318:GLU:HG2	9:P:448:HOH:O	2.16	0.44
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.47	0.44
3:D:614:PHE:CB	3:D:617:ASN:HB3	2.47	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HA	2.47	0.44
3:D:85:VAL:HG11	3:D:89:ARG:CZ	2.48	0.44
2:M:968:LEU:CB	9:M:2164:HOH:O	2.58	0.44
2:M:862:PRO:HD3	2:M:973:VAL:O	2.18	0.44
3:N:165:LYS:HE2	9:N:2305:HOH:O	2.17	0.44
4:O:45:ARG:HH21	4:O:55:PHE:HB3	1.80	0.44
4:E:40:LEU:C	4:E:42:PRO:HD2	2.37	0.44
3:D:63:TYR:HB2	9:D:2023:HOH:O	2.17	0.44
2:M:114:PHE:CD2	5:P:283:GLY:HA3	2.52	0.44
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.16	0.44
2:C:529:VAL:HG21	9:C:1134:HOH:O	2.18	0.44
2:C:759:THR:HB	2:C:785:VAL:HG21	1.99	0.44
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.53	0.44
2:C:113:VAL:O	2:C:115:LEU:HD23	2.17	0.44
1:B:10:VAL:HG12	1:B:12:THR:HG23	1.98	0.44
2:M:810:ASP:H	2:M:811:PRO:HD3	1.82	0.44
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.99	0.44
1:L:45:LEU:HD11	1:L:177:VAL:CG2	2.48	0.44
1:K:227:ASN:HD22	1:K:227:ASN:H	1.65	0.44
3:D:1376:MET:HA	9:D:2082:HOH:O	2.17	0.44
3:D:1380:GLU:HB2	3:D:1420:LEU:CD2	2.47	0.44
3:N:1182:GLU:HB3	9:N:2331:HOH:O	2.17	0.44
2:C:674:VAL:HB	2:C:869:VAL:CG1	2.47	0.44
2:C:598:GLU:HG2	9:C:1352:HOH:O	2.18	0.44
1:K:229:GLN:HE21	1:K:229:GLN:HB2	1.56	0.44
3:N:420:VAL:HG13	9:N:2303:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1030:GLN:NE2	3:N:628:ARG:HB3	2.32	0.44
5:P:276:ARG:HA	9:P:451:HOH:O	2.17	0.44
3:N:1426:LYS:HG2	9:N:1735:HOH:O	2.18	0.44
3:N:204:LEU:HA	3:N:441:ARG:NH2	2.20	0.44
3:N:204:LEU:O	3:N:393:ILE:HG23	2.17	0.44
3:N:421:LEU:HD11	3:N:446:VAL:CG2	2.48	0.44
1:L:191:ASP:O	1:L:192:LEU:HG	2.18	0.44
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.99	0.44
2:C:139:GLN:HG2	2:C:140:ILE:N	2.33	0.44
3:N:66:GLN:O	3:N:67:ARG:C	2.55	0.44
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.44
2:C:474:VAL:HG13	2:C:529:VAL:O	2.17	0.44
1:A:88:ARG:O	1:A:88:ARG:HG3	2.16	0.44
1:K:132:LEU:HD21	1:K:138:LEU:HB2	2.00	0.44
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.69	0.44
2:M:227:PHE:HD2	2:M:237:ARG:CZ	2.30	0.44
3:D:880:ILE:O	3:D:883:ALA:HB3	2.17	0.44
1:A:127:LEU:HD11	1:A:129:ILE:CD1	2.47	0.44
3:N:953:ASP:O	3:N:955:VAL:HG23	2.17	0.44
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.81	0.44
2:M:474:VAL:HA	2:M:478:VAL:O	2.17	0.44
2:C:1043:TYR:HE1	3:D:710:ARG:O	2.00	0.44
2:C:278:GLU:HG3	2:C:283:ILE:HG23	2.00	0.44
3:N:1217:ILE:H	3:N:1217:ILE:HG13	1.68	0.44
2:C:443:THR:CG2	2:C:449:ILE:HG13	2.48	0.44
3:N:1002:LYS:HA	9:N:1776:HOH:O	2.17	0.44
2:M:247:PRO:HB2	9:M:2082:HOH:O	2.16	0.44
5:F:351:SER:O	5:F:355:GLU:HB2	2.17	0.44
1:K:212:ASN:O	1:K:215:VAL:HG22	2.18	0.44
1:B:59:GLU:HG3	1:B:139:ASN:HB3	2.00	0.44
2:M:264:PRO:HA	9:M:1703:HOH:O	2.17	0.44
2:M:281:LEU:HD12	2:M:305:PRO:O	2.17	0.44
3:N:1412:LYS:O	3:N:1414:PRO:HD3	2.18	0.44
3:N:122:GLU:O	3:N:126:VAL:HG23	2.18	0.44
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.52	0.44
3:D:660:LYS:HE3	3:D:663:GLU:CD	2.38	0.44
1:A:39:PRO:HG3	1:B:39:PRO:CG	2.44	0.44
4:E:88:GLU:HB3	9:E:137:HOH:O	2.18	0.44
5:P:141:VAL:HG22	9:P:496:HOH:O	2.18	0.44
1:K:92:PRO:HB3	9:K:3732:HOH:O	2.17	0.44
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:217:LEU:HB2	2:C:311:PHE:CE1	2.53	0.44
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.88	0.44
2:M:1105:LYS:HB3	9:M:1845:HOH:O	2.16	0.44
3:D:631:ILE:O	3:D:632:VAL:HG23	2.18	0.44
4:E:85:LEU:HD23	4:E:86:GLN:N	2.32	0.44
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.47	0.44
5:F:419:ARG:O	5:F:421:PHE:N	2.50	0.44
2:M:1010:THR:HG22	2:M:1011:GLY:N	2.32	0.44
2:C:48:PHE:CE1	2:C:348:LEU:HD11	2.53	0.44
5:F:300:ASP:CG	5:F:301:ALA:N	2.71	0.44
2:M:405:ARG:NH1	2:M:566:THR:HG21	2.32	0.44
3:N:1247:ALA:HB3	9:N:1888:HOH:O	2.16	0.44
1:A:229:GLN:HB2	1:A:229:GLN:HE21	1.57	0.44
2:M:319:GLY:HA2	9:M:1910:HOH:O	2.18	0.44
5:F:240:THR:O	5:F:244:ARG:HG3	2.18	0.44
2:C:873:PRO:HB3	3:D:949:ILE:HG12	2.00	0.44
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.99	0.44
3:D:52:PRO:CG	3:D:78:VAL:HG13	2.47	0.44
3:N:118:LEU:O	3:N:119:SER:C	2.56	0.44
3:N:421:LEU:HB3	3:N:444:VAL:HG11	2.00	0.44
3:N:1231:GLU:HG2	3:N:1232:PRO:N	2.33	0.44
2:M:1034:GLU:O	2:M:1037:VAL:HG23	2.17	0.44
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.47	0.44
2:C:267:TYR:H	2:C:267:TYR:HD2	1.64	0.44
2:C:265:ARG:HG2	2:C:267:TYR:N	2.31	0.44
2:M:573:ARG:HB3	2:M:670:GLN:OE1	2.17	0.44
3:N:795:VAL:HG12	3:N:796:ARG:N	2.32	0.44
3:N:699:VAL:H	3:N:756:GLN:HE21	1.59	0.44
2:M:599:GLU:HB2	9:M:1699:HOH:O	2.18	0.44
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.99	0.44
3:D:1326:THR:HA	9:D:2026:HOH:O	2.17	0.44
3:D:1209:LEU:C	3:D:1211:MET:N	2.71	0.44
5:P:385:GLU:O	5:P:397:ILE:HD13	2.18	0.44
2:M:751:PRO:CG	2:M:796:GLU:HG2	2.48	0.44
3:N:799:LYS:HE2	3:N:801:GLY:HA3	2.00	0.44
4:O:33:HIS:HB3	9:O:1494:HOH:O	2.18	0.44
4:O:29:GLN:HE22	4:O:89:MET:HE1	1.83	0.44
3:N:643:GLY:CA	3:N:727:GLN:HB2	2.47	0.44
1:K:8:ALA:HB2	9:K:1466:HOH:O	2.18	0.44
2:C:92:ALA:HB2	2:C:120:LEU:HD11	1.99	0.44
2:C:398:THR:O	2:C:635:THR:HG21	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:172:PRO:O	3:N:174:GLY:N	2.51	0.44
2:C:278:GLU:HA	2:C:283:ILE:HA	2.00	0.44
2:C:588:VAL:HG21	2:C:664:GLY:O	2.18	0.44
1:K:64:GLU:HG2	1:K:64:GLU:O	2.17	0.44
2:M:340:MET:SD	2:M:344:PHE:HB2	2.58	0.44
2:M:732:ALA:O	2:M:735:ARG:HG3	2.18	0.44
2:M:207:LEU:O	2:M:211:LEU:HB3	2.18	0.44
2:C:1118:LYS:O	2:C:1119:ARG:OXT	2.36	0.44
3:D:508:ARG:CG	3:D:509:PRO:HD2	2.36	0.44
2:M:64:LEU:HB2	2:M:359:MET:SD	2.57	0.44
3:D:204:LEU:HD11	3:D:445:ARG:HH12	1.81	0.44
5:P:205:ARG:CD	5:P:251:ILE:HG21	2.48	0.44
2:C:191:PHE:CZ	2:C:238:LEU:HD11	2.52	0.44
1:B:158:ILE:HD11	1:B:166:PRO:N	2.33	0.44
3:N:44:LEU:O	3:N:50:PHE:CE1	2.70	0.44
2:C:146:VAL:N	9:C:1337:HOH:O	2.50	0.44
2:C:212:GLY:C	2:C:215:GLY:H	2.21	0.44
3:N:528:VAL:HG12	3:N:529:GLN:N	2.33	0.44
3:D:1478:SER:HG	3:D:1481:VAL:H	1.66	0.44
3:D:798:GLU:HB2	3:D:828:LYS:CE	2.40	0.44
1:L:80:LEU:HD23	3:N:867:ARG:HD2	1.99	0.44
2:M:564:MET:SD	2:M:846:LYS:HE3	2.58	0.44
5:F:392:VAL:HG11	5:F:396:ARG:HD2	2.00	0.44
3:N:36:THR:O	3:N:38:LYS:N	2.51	0.44
1:A:106:PRO:HG3	1:A:133:GLU:O	2.17	0.44
1:A:67:THR:O	1:A:67:THR:HG23	2.17	0.44
2:M:176:VAL:HB	9:M:2210:HOH:O	2.18	0.44
3:D:1123:PHE:HB3	3:D:1132:LEU:HG	1.98	0.44
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.18	0.44
1:A:158:ILE:C	1:A:159:LYS:HG3	2.38	0.44
5:P:226:LYS:HE3	9:P:445:HOH:O	2.18	0.44
2:M:942:GLU:O	2:M:945:ARG:HB3	2.17	0.44
1:A:33:GLY:O	1:A:195:LEU:HD22	2.18	0.44
1:L:101:LEU:CD1	9:L:1850:HOH:O	2.64	0.44
2:M:207:LEU:HD13	2:M:221:LEU:HD13	2.00	0.44
3:D:1008:PHE:HB3	9:D:1941:HOH:O	2.17	0.44
3:N:155:ASP:HA	3:N:158:TYR:HB3	2.00	0.44
2:M:64:LEU:CD1	2:M:100:LEU:HD13	2.48	0.44
4:O:57:ASP:N	4:O:58:PRO:HD3	2.32	0.44
2:C:146:VAL:HG11	2:C:306:THR:HG22	1.99	0.44
2:C:264:PRO:HB3	2:C:289:THR:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:162:ARG:HA	3:D:449:SER:OG	2.17	0.44
5:P:140:ARG:HG3	5:P:141:VAL:N	2.33	0.44
5:F:151:LEU:HD23	9:F:489:HOH:O	2.17	0.44
2:C:1052:MET:SD	3:D:623:VAL:HG21	2.57	0.44
3:D:554:LEU:HD23	3:D:570:GLU:HG2	2.00	0.44
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.82	0.44
2:M:7:GLY:O	2:M:907:ASP:OD1	2.36	0.44
3:N:638:LYS:C	3:N:729:HIS:HD2	2.21	0.44
2:M:564:MET:SD	2:M:846:LYS:HG3	2.58	0.44
3:N:996:TRP:HA	3:N:999:THR:CG2	2.46	0.44
5:P:396:ARG:HG2	9:P:513:HOH:O	2.18	0.44
3:N:195:VAL:HG12	3:N:196:VAL:N	2.32	0.44
3:N:987:GLU:HA	9:N:2147:HOH:O	2.18	0.44
3:D:1276:GLU:OE2	3:D:1303:TYR:HE2	2.00	0.44
3:D:937:TYR:HD2	3:D:941:PHE:HE1	1.66	0.44
5:F:306:GLU:HG3	9:F:582:HOH:O	2.18	0.44
2:C:545:ASN:O	2:C:581:THR:HG21	2.17	0.44
2:M:198:ARG:NE	2:M:228:ALA:HA	2.33	0.44
1:A:42:ARG:HH12	1:B:34:VAL:CG1	2.28	0.43
3:D:1393:GLN:HG3	3:D:1398:TRP:HZ2	1.83	0.43
2:C:73:LEU:CD2	2:C:94:LEU:HB2	2.47	0.43
2:M:757:GLY:HA2	2:M:789:SER:CB	2.35	0.43
3:N:15:PRO:HG3	9:N:2008:HOH:O	2.17	0.43
4:O:67:GLU:H	4:O:67:GLU:HG3	1.68	0.43
5:F:205:ARG:HD3	5:F:251:ILE:HG21	2.00	0.43
3:N:615:ARG:NH2	3:N:1089:ALA:HB2	2.23	0.43
2:C:257:VAL:HG12	2:C:263:ASP:OD1	2.17	0.43
2:C:874:LEU:HA	3:D:1023:MET:HE1	1.99	0.43
3:N:37:LEU:HD13	3:N:535:PHE:HZ	1.83	0.43
1:L:7:LYS:HE3	9:L:1689:HOH:O	2.18	0.43
3:D:481:MET:CE	3:D:1389:LEU:HG	2.48	0.43
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.00	0.43
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.53	0.43
5:P:101:GLU:O	5:P:105:LYS:HG3	2.17	0.43
3:N:800:LYS:CE	3:N:804:LEU:HD13	2.48	0.43
2:C:663:ASN:C	2:C:665:PHE:H	2.22	0.43
2:C:813:VAL:HB	9:C:1471:HOH:O	2.18	0.43
5:F:185:GLN:O	5:F:189:GLU:HG3	2.17	0.43
3:D:158:TYR:CE1	3:D:454:ALA:HB3	2.53	0.43
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.48	0.43
3:D:951:ILE:HD12	3:D:1062:ARG:HG3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:125:PRO:HD2	9:L:3251:HOH:O	2.18	0.43
5:P:403:LYS:HB2	9:P:540:HOH:O	2.17	0.43
5:F:115:LYS:HD2	5:F:173:TYR:HE2	1.82	0.43
3:N:1025:GLN:HE21	3:N:1025:GLN:HB3	1.62	0.43
3:D:1251:ASP:O	3:D:1270:ALA:HB3	2.18	0.43
5:P:82:ARG:O	5:P:86:HIS:HB2	2.18	0.43
2:C:516:ARG:N	9:C:1381:HOH:O	2.50	0.43
2:M:1082:PRO:C	2:M:1084:SER:N	2.71	0.43
2:M:610:ARG:NE	9:M:1664:HOH:O	2.49	0.43
3:D:31:THR:HG22	3:D:32:ILE:HB	2.00	0.43
5:P:271:LEU:HD23	5:P:291:ILE:HD11	2.00	0.43
2:C:32:ALA:HB2	2:C:73:LEU:CD1	2.47	0.43
2:C:352:ALA:C	2:C:355:VAL:HG12	2.39	0.43
3:N:131:LYS:HE3	3:N:568:ARG:HB3	1.99	0.43
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.54	0.43
4:O:57:ASP:H	4:O:58:PRO:HD3	1.83	0.43
1:L:33:GLY:O	1:L:195:LEU:HD22	2.19	0.43
2:C:454:SER:HB3	9:C:1409:HOH:O	2.18	0.43
3:D:1220:ALA:O	3:D:1224:VAL:HG23	2.18	0.43
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.99	0.43
3:N:1325:LEU:C	9:N:2368:HOH:O	2.57	0.43
2:C:720:GLU:HA	9:C:1430:HOH:O	2.18	0.43
1:K:91:ASN:N	9:K:1900:HOH:O	2.51	0.43
5:F:152:ASP:HB3	9:F:665:HOH:O	2.17	0.43
2:C:564:MET:CE	2:C:846:LYS:HE3	2.49	0.43
2:C:292:ARG:HD2	2:C:299:LYS:CG	2.47	0.43
2:C:599:GLU:CG	2:C:600:ASP:H	2.29	0.43
3:D:1147:ARG:HD2	3:D:1188:VAL:CG2	2.48	0.43
1:K:61:VAL:HG11	1:K:75:VAL:HG21	1.99	0.43
2:C:20:GLU:HB2	9:C:1289:HOH:O	2.18	0.43
3:D:143:ASN:HD21	3:D:145:VAL:HG12	1.81	0.43
2:C:958:THR:HG23	2:C:961:GLU:HB2	2.00	0.43
3:N:761:ILE:CD1	4:O:20:THR:HA	2.49	0.43
2:C:1088:LEU:HG	2:C:1092:LEU:HD12	2.00	0.43
3:N:938:GLY:O	3:N:942:SER:HB3	2.18	0.43
2:M:133:ASP:OD2	2:M:133:ASP:N	2.51	0.43
1:L:77:GLU:O	1:L:77:GLU:HG3	2.15	0.43
2:M:11:GLU:HB3	9:M:2054:HOH:O	2.18	0.43
3:D:610:LYS:HG2	7:D:1527:MXP:H15A	1.99	0.43
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.18	0.43
2:M:208:ALA:CA	2:M:221:LEU:HD21	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:911:GLU:HG2	2:C:915:LYS:NZ	2.33	0.43
2:C:230:ARG:HG2	9:C:1514:HOH:O	2.17	0.43
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.48	0.43
3:N:1066:THR:O	3:N:1070:TYR:HB2	2.18	0.43
3:D:1095:THR:HG22	9:D:1551:HOH:O	2.16	0.43
3:D:1110:ALA:O	3:D:1112:CYS:N	2.50	0.43
1:K:102:LYS:HA	1:K:138:LEU:O	2.18	0.43
1:K:138:LEU:HA	9:K:2460:HOH:O	2.19	0.43
2:C:345:ARG:HD2	9:C:1463:HOH:O	2.18	0.43
3:D:704:ARG:HG2	3:D:705:ALA:N	2.30	0.43
2:M:537:LYS:HD3	2:M:905:ILE:HD11	2.01	0.43
2:M:462:ASP:O	2:M:463:GLU:C	2.57	0.43
2:M:422:ARG:HG2	9:M:1926:HOH:O	2.18	0.43
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.01	0.43
2:M:278:GLU:HG3	2:M:283:ILE:HA	1.99	0.43
2:C:575:GLN:C	2:C:667:ALA:HB1	2.38	0.43
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.81	0.43
3:N:961:LYS:HE3	9:N:2153:HOH:O	2.17	0.43
2:C:1033:GLY:H	2:C:1036:GLU:HG3	1.83	0.43
1:A:158:ILE:HD13	1:A:158:ILE:HA	1.88	0.43
3:D:678:GLU:HB2	9:D:1759:HOH:O	2.18	0.43
9:N:2374:HOH:O	4:O:51:LEU:HD23	2.18	0.43
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.19	0.43
3:D:848:GLU:N	9:D:1677:HOH:O	2.51	0.43
2:C:561:GLY:HA3	2:C:842:ARG:O	2.19	0.43
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	2.00	0.43
3:D:888:GLU:HB3	9:D:1740:HOH:O	2.18	0.43
2:C:569:VAL:HG12	2:C:996:LYS:O	2.18	0.43
9:K:1685:HOH:O	1:L:219:ARG:HD2	2.18	0.43
5:F:93:LEU:HA	5:F:93:LEU:HD23	1.81	0.43
2:M:876:VAL:HB	2:M:877:PRO:HD3	2.01	0.43
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.99	0.43
3:D:86:ARG:HB3	3:D:523:ASP:OD2	2.18	0.43
3:D:84:ILE:HG13	3:D:85:VAL:N	2.34	0.43
2:M:964:LYS:O	2:M:968:LEU:HG	2.18	0.43
2:M:65:VAL:HB	2:M:101:ILE:HB	2.00	0.43
4:E:53:GLY:C	4:E:55:PHE:N	2.70	0.43
1:L:55:SER:HB2	1:L:158:ILE:HD13	1.96	0.43
2:C:1009:SER:HB2	3:D:651:GLU:HG2	2.01	0.43
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.48	0.43
2:C:49:ARG:HG2	2:C:266:ARG:HH12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:413:LEU:HD12	2:C:413:LEU:N	2.24	0.43
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.42	0.43
3:N:637:LEU:HD11	3:N:641:GLN:HB2	2.00	0.43
3:N:1147:ARG:HB3	3:N:1188:VAL:HG23	1.99	0.43
5:F:418:LEU:N	5:F:418:LEU:HD12	2.33	0.43
3:N:9:ARG:HA	3:N:1434:TRP:CH2	2.52	0.43
5:P:163:LEU:HD22	5:P:174:LEU:HB2	2.01	0.43
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.81	0.43
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.18	0.43
2:C:610:ARG:NE	9:C:1120:HOH:O	2.52	0.43
2:M:1013:TYR:OH	3:N:624:ASP:OD2	2.33	0.43
1:A:227:ASN:HD22	1:A:227:ASN:N	2.15	0.43
2:C:22:GLN:HE22	2:C:135:VAL:CG1	2.30	0.43
2:C:631:SER:HG	2:C:635:THR:H	1.66	0.43
2:C:690:ILE:HD12	2:C:833:LEU:HD21	2.01	0.43
3:D:1304:LYS:HB3	9:D:1723:HOH:O	2.18	0.43
2:M:881:ASN:N	2:M:881:ASN:ND2	2.66	0.43
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.53	0.43
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.99	0.43
2:M:679:PHE:O	2:M:680:ASP:C	2.56	0.43
3:D:1395:LEU:HD23	3:D:1396:GLU:N	2.33	0.43
3:D:420:VAL:HA	9:D:2307:HOH:O	2.19	0.43
3:D:1426:LYS:HD2	9:D:2086:HOH:O	2.17	0.43
3:N:1004:THR:HG21	9:N:2039:HOH:O	2.17	0.43
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.53	0.43
1:L:115:LEU:HD12	1:L:115:LEU:O	2.18	0.43
3:D:649:ALA:HB3	3:D:691:LEU:HD21	1.98	0.43
3:D:1354:LYS:HE2	9:D:2358:HOH:O	2.19	0.43
5:P:137:GLY:HA2	9:P:480:HOH:O	2.19	0.43
2:C:517:ARG:HB2	9:C:1698:HOH:O	2.17	0.43
2:M:260:LEU:HG	2:M:261:ILE:HG13	2.00	0.43
3:N:561:GLY:HA3	5:P:184:ARG:CZ	2.48	0.43
2:M:437:ARG:HH22	2:M:491:GLU:HB2	1.82	0.43
2:C:139:GLN:N	9:C:1322:HOH:O	2.52	0.43
3:N:45:PHE:HB3	3:N:86:ARG:NH2	2.33	0.43
2:C:207:LEU:HD13	2:C:221:LEU:CD1	2.48	0.43
2:C:679:PHE:CE1	2:C:859:PRO:HD3	2.53	0.43
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.82	0.43
3:D:1195:GLN:CG	3:D:1196:THR:N	2.81	0.43
3:D:126:VAL:O	3:D:132:TYR:CD1	2.70	0.43
3:N:853:VAL:HG22	3:N:858:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:123:MET:HB3	9:K:2581:HOH:O	2.17	0.43
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.18	0.43
3:N:206:ARG:HG2	9:N:2269:HOH:O	2.18	0.43
2:M:687:ALA:C	2:M:688:ILE:HD12	2.38	0.43
2:C:798:GLY:H	2:C:827:VAL:HG11	1.82	0.43
3:D:128:TYR:HB3	3:D:129:PHE:HD1	1.84	0.43
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.99	0.43
2:C:971:LYS:HB3	2:C:987:ILE:C	2.39	0.43
2:C:987:ILE:HG12	3:D:948:THR:CG2	2.48	0.43
5:P:375:LEU:HB3	9:P:476:HOH:O	2.18	0.43
5:F:209:PHE:O	5:F:213:ILE:HG13	2.18	0.43
3:N:715:ALA:O	3:N:764:LEU:HD12	2.17	0.43
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.47	0.43
3:D:1109:GLU:CD	3:D:1202:GLN:HB2	2.39	0.43
2:M:182:VAL:HB	2:M:193:LEU:HD13	2.00	0.43
3:N:879:ARG:HD3	3:N:902:LEU:O	2.17	0.43
3:D:111:LYS:NZ	3:D:1449:GLU:HG2	2.34	0.43
1:B:72:LYS:HB3	1:B:131:THR:OG1	2.19	0.43
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.99	0.43
3:D:1186:VAL:HA	3:D:1187:PRO:HD3	1.90	0.43
3:D:871:LYS:O	3:D:873:LEU:HG	2.18	0.43
3:D:614:PHE:O	3:D:615:ARG:O	2.36	0.43
3:N:611:GLN:NE2	7:N:1527:MXP:C16	2.80	0.43
2:C:64:LEU:HD11	2:C:100:LEU:HD13	2.00	0.43
5:F:271:LEU:HD23	5:F:291:ILE:HD11	2.00	0.43
3:D:192:ALA:HB2	3:D:393:ILE:CD1	2.48	0.43
3:D:400:VAL:HG21	9:D:2433:HOH:O	2.19	0.43
3:N:403:PHE:CZ	3:N:407:VAL:HG23	2.53	0.43
2:C:232:GLU:O	2:C:235:LEU:HB2	2.18	0.43
4:O:53:GLY:C	4:O:55:PHE:H	2.22	0.43
3:N:1393:GLN:HB2	3:N:1398:TRP:CE2	2.53	0.43
2:C:462:ASP:O	2:C:463:GLU:C	2.56	0.43
2:M:969:GLN:HE21	2:M:969:GLN:HB3	1.71	0.43
2:C:280:LYS:HB3	9:C:1547:HOH:O	2.18	0.43
3:D:633:VAL:C	3:D:635:PRO:HD3	2.39	0.43
3:D:1112:CYS:CB	3:D:1195:GLN:HG2	2.42	0.43
5:F:79:ASP:CG	5:F:80:PRO:HD3	2.39	0.43
2:C:78:PHE:HB2	2:C:88:LEU:HD21	2.01	0.43
1:L:44:LEU:CD2	1:L:199:ILE:HD13	2.48	0.43
5:F:412:GLU:OE1	5:F:418:LEU:HD13	2.19	0.43
2:C:396:ASP:O	2:C:402:SER:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.48	0.43
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.48	0.43
5:F:338:LEU:HA	5:F:339:PRO:HD3	1.85	0.43
5:F:415:THR:HG22	5:F:417:LYS:HG3	2.00	0.43
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.82	0.43
3:D:417:PRO:HD2	3:D:432:TYR:CE1	2.54	0.43
2:M:816:LYS:O	2:M:819:VAL:HB	2.18	0.43
5:F:226:LYS:HB2	5:F:238:TYR:OH	2.19	0.43
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.18	0.43
2:M:897:LEU:HD23	2:M:899:GLN:NE2	2.33	0.43
2:M:244:PRO:CD	2:M:245:GLY:H	2.31	0.43
3:N:1285:GLU:HG2	3:N:1285:GLU:O	2.19	0.43
5:P:215:GLU:OE2	5:P:254:GLN:NE2	2.49	0.43
1:L:107:LYS:HG3	1:L:108:GLU:N	2.34	0.43
2:M:288:ARG:HB3	9:M:1852:HOH:O	2.17	0.43
1:L:57:TYR:HB3	1:L:141:GLU:HG3	2.01	0.43
2:M:1044:GLY:HA3	4:O:17:TYR:CE1	2.53	0.43
3:N:133:ILE:HG23	3:N:456:MET:SD	2.58	0.43
3:N:448:GLU:HG3	9:N:1563:HOH:O	2.17	0.43
1:L:86:VAL:HG12	1:L:124:ASN:HB2	2.00	0.43
3:N:44:LEU:O	3:N:525:ARG:NH2	2.51	0.43
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.84	0.43
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.84	0.43
3:D:1065:LEU:CD1	3:D:1069:GLU:HB2	2.48	0.43
2:M:232:GLU:O	2:M:235:LEU:HB2	2.18	0.43
3:D:799:LYS:O	3:D:829:VAL:HG13	2.19	0.43
3:N:1281:VAL:HG21	3:N:1313:VAL:HG22	2.00	0.43
3:D:724:GLN:N	9:D:1680:HOH:O	2.46	0.43
3:N:1035:ILE:CA	3:N:1038:LEU:HD12	2.49	0.43
2:C:511:GLU:HG3	9:C:1690:HOH:O	2.17	0.43
5:F:348:SER:OG	5:F:349:LEU:N	2.51	0.43
2:M:532:MET:HG3	2:M:533:ASP:N	2.33	0.43
5:P:94:LEU:HB3	9:P:503:HOH:O	2.18	0.43
5:F:225:GLU:HG3	5:F:226:LYS:N	2.32	0.43
4:E:39:VAL:HG21	4:E:72:ARG:HD2	2.00	0.43
3:D:1115:THR:HG21	3:D:1151:ARG:HH21	1.83	0.43
2:M:601:GLY:O	2:M:649:VAL:HG22	2.18	0.43
3:N:47:GLU:HG2	3:N:53:ILE:HG22	2.00	0.43
2:C:762:LYS:HB2	2:C:786:LYS:HD2	2.01	0.43
3:D:1119:SER:HA	3:D:1186:VAL:O	2.19	0.43
2:M:17:PRO:O	2:M:20:GLU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:495:THR:HB	2:M:530:GLU:HG3	2.00	0.43
3:N:1209:LEU:C	3:N:1211:MET:N	2.72	0.43
2:C:937:ASP:OD2	2:C:939:ARG:HD2	2.18	0.43
3:N:554:LEU:HD23	3:N:570:GLU:HG2	2.01	0.43
3:N:489:ARG:HG3	3:N:1388:ARG:NH2	2.27	0.43
4:E:54:LEU:HG	4:E:58:PRO:CB	2.49	0.43
2:C:419:THR:N	9:C:1152:HOH:O	2.50	0.43
3:D:1107:VAL:HA	3:D:1200:VAL:O	2.19	0.43
2:C:175:GLU:HB3	2:C:183:SER:OG	2.18	0.43
1:B:4:SER:HA	1:B:7:LYS:HG2	2.00	0.43
2:C:174:LEU:HB2	2:C:310:LEU:HD22	2.01	0.43
3:D:1495:ILE:HA	4:E:88:GLU:OE2	2.19	0.43
1:L:176:ARG:HD3	3:N:884:ARG:CZ	2.48	0.43
3:D:806:PHE:CD1	3:D:813:LEU:HB3	2.53	0.43
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.84	0.43
2:M:1033:GLY:HA3	9:N:1659:HOH:O	2.18	0.43
4:E:19:LEU:O	4:E:23:VAL:HG23	2.19	0.43
3:N:1352:ILE:CG2	3:N:1368:ILE:HD13	2.49	0.43
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.19	0.43
2:M:32:ALA:HB2	2:M:73:LEU:HD11	2.00	0.43
5:P:356:LYS:O	5:P:360:LYS:HG3	2.19	0.43
1:K:176:ARG:HA	9:K:2558:HOH:O	2.18	0.43
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.48	0.43
1:K:161:ARG:HG2	9:K:1051:HOH:O	2.18	0.43
3:D:1154:GLU:HG2	9:D:2105:HOH:O	2.19	0.43
1:L:42:ARG:HH11	1:L:42:ARG:HG2	1.83	0.43
3:D:1082:ALA:O	3:D:1086:LEU:HG	2.18	0.43
7:D:1527:MXP:H15	7:D:1527:MXP:H9	1.89	0.43
3:N:1467:ILE:H	3:N:1467:ILE:HG13	1.58	0.43
2:C:118:ILE:HG22	2:C:382:ILE:HD13	2.00	0.43
3:N:126:VAL:HG11	3:N:152:LEU:CD1	2.49	0.43
3:N:131:LYS:HD2	5:P:83:GLN:CD	2.39	0.43
3:N:565:ILE:CD1	5:P:84:TYR:HB3	2.49	0.43
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.84	0.43
3:D:116:LEU:CD1	3:D:465:LEU:HG	2.49	0.43
3:D:185:VAL:HG22	3:D:203:ALA:HB2	2.00	0.43
4:O:41:GLU:HB2	4:O:45:ARG:NH1	2.34	0.43
2:C:144:PRO:CG	2:C:165:LEU:HB3	2.48	0.43
2:M:540:PHE:CE1	2:M:906:PHE:HE1	2.36	0.43
2:M:640:ARG:HA	2:M:641:PRO:HD3	1.93	0.43
2:C:458:TYR:HB2	2:C:538:GLN:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:457:ALA:HB3	2:M:538:GLN:HA	2.00	0.43
1:K:101:LEU:HG	1:K:113:ASP:C	2.40	0.43
3:D:829:VAL:O	3:D:831:GLY:N	2.52	0.43
5:F:361:LEU:HG	5:F:408:LEU:HD21	2.01	0.43
2:M:309:TYR:HA	2:M:312:ALA:HB3	2.00	0.43
2:M:837:ASP:OD1	2:M:999:HIS:NE2	2.51	0.43
1:L:81:ASN:ND2	1:L:128:HIS:O	2.52	0.43
2:C:487:THR:HG22	2:C:488:ALA:N	2.34	0.43
3:N:1243:THR:CB	3:N:1253:THR:HB	2.49	0.43
3:D:1041:LEU:HD12	3:D:1058:ARG:CA	2.48	0.43
3:N:191:LEU:HD23	3:N:191:LEU:HA	1.75	0.43
3:D:1147:ARG:NH1	3:D:1190:SER:HB2	2.34	0.43
1:B:44:LEU:HD11	1:B:199:ILE:HD11	2.00	0.43
2:M:342:ASP:O	2:M:346:VAL:HG23	2.18	0.43
2:M:350:ARG:HG2	9:M:1970:HOH:O	2.18	0.43
2:C:1070:ILE:HG23	3:D:656:PHE:CE2	2.53	0.43
2:C:455:LEU:HD12	2:C:456:ALA:N	2.34	0.43
2:C:1034:GLU:O	2:C:1037:VAL:N	2.52	0.43
1:K:161:ARG:HH11	1:K:161:ARG:HB2	1.84	0.43
2:M:209:ARG:HB2	9:M:2284:HOH:O	2.19	0.43
2:M:620:LEU:HD12	2:M:620:LEU:O	2.19	0.43
2:C:832:LYS:HG2	9:C:1178:HOH:O	2.17	0.43
2:M:432:ARG:HD2	9:M:1743:HOH:O	2.19	0.43
2:M:836:GLY:HA2	3:N:725:SER:OG	2.19	0.43
1:K:70:GLY:H	2:M:607:ASP:CG	2.19	0.43
2:C:313:LEU:HD13	2:C:321:GLU:O	2.19	0.43
3:D:32:ILE:HG22	5:F:258:ILE:CD1	2.47	0.43
3:D:522:PRO:N	9:D:1713:HOH:O	2.51	0.43
3:N:1383:ASP:HB2	3:N:1416:ALA:CB	2.37	0.43
3:D:583:ASP:C	3:D:583:ASP:OD1	2.57	0.43
2:C:464:LEU:HD12	2:C:465:GLY:H	1.83	0.43
2:C:144:PRO:HA	2:C:163:ILE:HG13	2.01	0.43
2:C:267:TYR:N	2:C:267:TYR:HD2	2.16	0.43
3:D:1491:THR:HG22	3:D:1495:ILE:HD13	2.01	0.43
3:D:478:LEU:HD21	3:D:500:ARG:HH22	1.83	0.43
3:D:809:PRO:O	3:D:812:ALA:HB3	2.19	0.43
3:D:1045:MET:HG3	3:D:1073:SER:CA	2.46	0.43
2:M:905:ILE:HD11	9:M:1895:HOH:O	2.19	0.43
1:K:106:PRO:HG3	1:K:133:GLU:O	2.19	0.43
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.54	0.43
2:M:82:GLU:HG2	2:M:86:LYS:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:193:LEU:HD21	9:M:1951:HOH:O	2.18	0.43
1:K:158:ILE:O	1:K:159:LYS:HG3	2.19	0.43
1:K:78:ILE:HG13	1:K:78:ILE:H	1.65	0.43
5:F:172:ARG:HG3	9:F:453:HOH:O	2.19	0.43
2:M:405:ARG:HH11	2:M:566:THR:HG21	1.84	0.43
3:D:145:VAL:HG22	3:D:146:PRO:HD2	2.01	0.43
2:M:495:THR:H	2:M:530:GLU:CD	2.22	0.43
5:F:201:LYS:HE2	9:F:724:HOH:O	2.18	0.43
1:A:220:GLU:HG2	9:A:339:HOH:O	2.18	0.43
1:A:95:GLN:HA	9:A:395:HOH:O	2.17	0.43
3:D:1292:VAL:HB	9:D:2010:HOH:O	2.19	0.43
2:C:317:VAL:HG12	2:C:317:VAL:O	2.19	0.43
4:O:91:ARG:CZ	9:O:1090:HOH:O	2.67	0.43
2:C:1082:PRO:C	2:C:1084:SER:N	2.71	0.42
1:B:60:ASP:N	1:B:137:ARG:NH2	2.65	0.42
2:M:874:LEU:HD23	3:N:1023:MET:HE3	2.00	0.42
3:N:1023:MET:H	3:N:1023:MET:HG2	1.46	0.42
2:C:408:ARG:NH2	2:C:542:VAL:HG22	2.33	0.42
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.19	0.42
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.49	0.42
3:N:573:MET:CE	5:P:210:LEU:HB3	2.48	0.42
2:M:98:LEU:HB2	9:M:1972:HOH:O	2.17	0.42
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.38	0.42
3:N:393:ILE:HG13	9:N:1934:HOH:O	2.19	0.42
2:C:431:HIS:HD2	2:C:433:THR:H	1.61	0.42
4:O:41:GLU:CA	4:O:45:ARG:HD3	2.40	0.42
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.54	0.42
3:N:679:ARG:HB2	3:N:682:ASP:CG	2.39	0.42
2:C:212:GLY:O	2:C:215:GLY:O	2.37	0.42
2:C:271:GLU:HG2	2:C:275:TYR:HE1	1.84	0.42
1:B:208:LEU:HD12	1:B:212:ASN:OD1	2.19	0.42
1:K:206:THR:HG22	1:K:209:GLU:CB	2.48	0.42
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.99	0.42
3:N:661:MET:CE	3:N:673:ALA:HB1	2.49	0.42
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.47	0.42
3:D:1242:HIS:HE1	3:D:1266:ARG:HB3	1.84	0.42
2:M:1013:TYR:O	5:P:334:PRO:HA	2.19	0.42
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.49	0.42
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.19	0.42
2:M:622:GLU:O	2:M:624:PRO:HD3	2.18	0.42
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.72	0.42
3:D:732:VAL:HG12	9:D:1673:HOH:O	2.19	0.42
2:C:585:GLU:HB2	9:C:1331:HOH:O	2.18	0.42
2:M:16:PRO:HB3	2:M:460:ARG:NH1	2.34	0.42
2:C:286:SER:C	2:C:287:GLY:O	2.56	0.42
1:K:128:HIS:CE1	1:K:131:THR:HG23	2.54	0.42
2:M:722:ILE:HG13	2:M:757:GLY:O	2.19	0.42
3:N:455:ARG:HH11	3:N:463:GLN:HG3	1.84	0.42
5:P:217:ASN:O	5:P:221:ILE:HG13	2.20	0.42
2:M:52:PHE:HB3	2:M:53:PRO:HD3	2.00	0.42
2:M:943:VAL:HG11	2:M:973:VAL:HG13	2.01	0.42
3:N:168:THR:HA	3:N:394:LEU:HA	2.02	0.42
3:D:560:GLN:HG2	5:F:221:ILE:HG21	2.01	0.42
1:B:91:ASN:O	1:B:94:LEU:HD12	2.18	0.42
3:D:660:LYS:HE2	9:D:1780:HOH:O	2.19	0.42
5:P:321:ILE:HD11	5:P:329:TYR:HB2	2.00	0.42
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.23	0.42
2:C:1103:ASP:HB2	9:C:1226:HOH:O	2.19	0.42
3:D:12:LEU:HD11	3:D:512:MET:HG2	2.01	0.42
3:D:853:VAL:HG22	3:D:858:VAL:HG23	2.01	0.42
2:C:1048:THR:O	2:C:1052:MET:HG2	2.19	0.42
3:N:1274:ILE:H	3:N:1274:ILE:HD12	1.82	0.42
2:C:311:PHE:HB3	9:C:1209:HOH:O	2.18	0.42
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.45	0.42
2:M:724:ARG:HD2	2:M:740:GLU:HG2	2.02	0.42
3:N:633:VAL:HG13	3:N:633:VAL:O	2.18	0.42
1:A:67:THR:OG1	2:C:609:ASN:ND2	2.52	0.42
3:D:996:TRP:O	3:D:999:THR:HG22	2.19	0.42
4:O:85:LEU:HD23	4:O:86:GLN:N	2.34	0.42
5:P:172:ARG:NH1	9:P:483:HOH:O	2.50	0.42
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	2.02	0.42
5:P:309:LYS:O	5:P:312:GLN:HB2	2.19	0.42
2:M:443:THR:CG2	2:M:450:GLY:H	2.33	0.42
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.83	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.20	0.42
2:M:446:GLY:O	2:M:447:ALA:C	2.57	0.42
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.19	0.42
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.47	0.42
3:N:1216:SER:HB3	4:O:16:LYS:H	1.84	0.42
3:D:1428:ALA:O	3:D:1431:THR:CG2	2.66	0.42
2:M:300:ASP:HA	9:M:1862:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:15:PRO:HA	3:D:18:ILE:HG12	2.00	0.42
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.99	0.42
5:F:271:LEU:HD22	5:F:304:VAL:HG13	1.99	0.42
2:M:412:ALA:HB1	2:M:419:THR:HG23	2.00	0.42
5:P:247:ILE:O	5:P:251:ILE:HG13	2.20	0.42
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	2.01	0.42
2:C:144:PRO:HG2	2:C:165:LEU:HB3	2.01	0.42
2:C:267:TYR:N	2:C:267:TYR:CD2	2.87	0.42
2:M:627:ARG:HG3	2:M:628:PHE:N	2.33	0.42
3:D:729:HIS:CE1	3:D:935:LYS:HD3	2.54	0.42
2:M:674:VAL:HG11	2:M:992:MET:HB3	2.01	0.42
2:M:232:GLU:HG3	2:M:235:LEU:CD1	2.49	0.42
2:M:129:ILE:HG22	2:M:130:ASN:ND2	2.33	0.42
1:A:206:THR:HG23	1:A:209:GLU:H	1.84	0.42
3:N:1167:SER:HB3	9:N:1789:HOH:O	2.19	0.42
2:C:627:ARG:HG2	9:C:1753:HOH:O	2.19	0.42
2:M:514:VAL:HG23	9:M:1623:HOH:O	2.18	0.42
2:C:78:PHE:HB3	2:C:79:PRO:HD2	2.00	0.42
2:C:560:MET:O	2:C:564:MET:HE3	2.19	0.42
3:D:795:VAL:HA	3:D:861:GLN:O	2.19	0.42
2:M:564:MET:CE	2:M:846:LYS:HE3	2.50	0.42
3:D:153:LEU:HD12	3:D:154:THR:N	2.34	0.42
1:K:16:GLN:HA	9:K:3198:HOH:O	2.18	0.42
2:C:946:ARG:HD2	2:C:984:GLU:HB3	1.99	0.42
2:M:808:ARG:HA	2:M:815:LEU:HD22	2.00	0.42
2:M:173:ASP:O	2:M:184:MET:HA	2.19	0.42
1:A:101:LEU:HD23	1:A:102:LYS:N	2.34	0.42
3:N:1182:GLU:CG	9:N:1552:HOH:O	2.66	0.42
2:M:897:LEU:HD23	9:M:1930:HOH:O	2.19	0.42
3:D:98:PRO:HG3	3:D:515:GLU:HB3	2.01	0.42
3:N:399:ARG:NE	9:N:2195:HOH:O	2.52	0.42
2:C:674:VAL:HG11	2:C:992:MET:HB3	2.02	0.42
3:D:754:PHE:CG	4:E:24:ALA:HB1	2.55	0.42
2:M:161:SER:HB3	9:M:2298:HOH:O	2.19	0.42
2:C:370:ALA:HB1	9:C:1667:HOH:O	2.18	0.42
2:C:707:ARG:NH2	2:C:824:ARG:CZ	2.82	0.42
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.33	0.42
2:M:165:LEU:HD12	2:M:166:PRO:C	2.40	0.42
1:B:99:LEU:HD21	1:B:122:ILE:HD11	2.00	0.42
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.45	0.42
3:D:1019:PRO:O	3:D:1023:MET:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.49	0.42
3:N:139:GLY:O	3:N:147:VAL:HB	2.20	0.42
3:D:1108:ARG:NH2	3:D:1198:TYR:HB2	2.34	0.42
3:D:568:ARG:HG3	3:D:572:ARG:HE	1.85	0.42
3:N:434:ARG:H	3:N:447:VAL:HG23	1.84	0.42
2:C:840:ALA:HB2	2:C:846:LYS:HA	2.02	0.42
3:N:9:ARG:HA	3:N:1434:TRP:HH2	1.83	0.42
3:D:133:ILE:HG23	3:D:456:MET:SD	2.60	0.42
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	2.01	0.42
1:B:24:VAL:HG13	1:B:196:THR:HB	2.01	0.42
2:M:684:PHE:HD2	3:N:740:PHE:HE1	1.67	0.42
5:P:286:PRO:HD3	9:P:477:HOH:O	2.19	0.42
3:N:799:LYS:CB	3:N:826:PRO:HG2	2.48	0.42
1:K:158:ILE:C	1:K:159:LYS:HG3	2.40	0.42
4:E:85:LEU:HD23	4:E:85:LEU:C	2.39	0.42
3:N:834:THR:HA	3:N:838:ARG:HD2	2.01	0.42
3:D:820:GLU:HB3	3:D:836:VAL:HG21	2.02	0.42
3:N:111:LYS:NZ	3:N:1452:ILE:HG21	2.34	0.42
3:D:1382:THR:HG21	3:D:1418:LYS:CE	2.50	0.42
2:M:612:VAL:HG22	2:M:622:GLU:CB	2.48	0.42
3:N:892:ASP:O	3:N:895:VAL:N	2.51	0.42
5:F:363:GLU:CA	5:F:367:MET:HG3	2.49	0.42
3:D:1129:THR:HA	9:D:1695:HOH:O	2.18	0.42
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.54	0.42
2:M:850:ALA:HA	3:N:632:VAL:HG11	2.01	0.42
1:B:58:ILE:CG2	1:B:137:ARG:NH2	2.80	0.42
2:M:212:GLY:C	2:M:215:GLY:H	2.22	0.42
2:C:1016:ILE:HG23	3:D:526:PRO:HG2	2.01	0.42
3:N:152:LEU:CD2	3:N:152:LEU:H	2.24	0.42
5:P:416:ARG:HB2	9:P:461:HOH:O	2.18	0.42
3:N:407:VAL:HG22	3:N:422:ALA:CB	2.50	0.42
2:C:950:LEU:HB3	2:C:952:LEU:HD23	2.01	0.42
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.48	0.42
3:D:1023:MET:HG2	3:D:1023:MET:H	1.42	0.42
2:C:769:PRO:HB3	5:F:373:LYS:O	2.19	0.42
2:C:679:PHE:O	2:C:680:ASP:C	2.57	0.42
3:N:1223:ILE:N	3:N:1223:ILE:HD12	2.27	0.42
2:C:1109:VAL:HA	3:D:3:LYS:HE3	2.00	0.42
5:F:260:ILE:HD12	9:F:458:HOH:O	2.19	0.42
2:C:724:ARG:HA	2:C:737:LEU:CD2	2.49	0.42
3:D:796:ARG:NH1	3:D:861:GLN:HE21	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:889:HIS:CD2	9:C:1474:HOH:O	2.72	0.42
3:N:829:VAL:H	3:N:835:SER:CB	2.32	0.42
5:F:111:GLU:O	5:F:115:LYS:HG3	2.20	0.42
1:B:90:LEU:HG	1:B:90:LEU:O	2.19	0.42
1:B:133:GLU:O	1:B:134:GLU:HG2	2.19	0.42
3:D:1311:LEU:HB3	9:D:1836:HOH:O	2.20	0.42
2:M:742:VAL:HG12	2:M:743:VAL:H	1.85	0.42
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.18	0.42
2:C:173:ASP:O	2:C:184:MET:HA	2.20	0.42
1:A:55:SER:HB2	1:A:158:ILE:HG13	2.01	0.42
2:C:833:LEU:HD12	2:C:834:GLN:N	2.34	0.42
2:C:91:GLN:HA	2:C:119:PRO:HA	2.01	0.42
5:P:200:LYS:HD3	9:P:559:HOH:O	2.20	0.42
3:D:671:LYS:N	9:D:1660:HOH:O	2.38	0.42
2:M:814:GLU:HB2	9:M:1921:HOH:O	2.18	0.42
3:D:1407:LEU:HD11	9:D:2177:HOH:O	2.19	0.42
3:D:1314:LYS:HA	9:D:1812:HOH:O	2.19	0.42
2:M:286:SER:C	2:M:287:GLY:O	2.57	0.42
1:L:63:HIS:HB3	9:L:3750:HOH:O	2.20	0.42
1:L:63:HIS:HD2	9:L:3508:HOH:O	2.03	0.42
3:N:610:LYS:CD	7:N:1527:MXP:H15B	2.31	0.42
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.35	0.42
1:K:184:THR:HG23	1:K:192:LEU:CD1	2.49	0.42
2:M:263:ASP:C	2:M:264:PRO:O	2.58	0.42
2:C:1118:LYS:H	2:C:1118:LYS:HG3	1.77	0.42
3:D:38:LYS:N	9:D:1967:HOH:O	2.44	0.42
2:C:1090:LYS:HD2	3:D:90:MET:CE	2.50	0.42
3:D:118:LEU:O	3:D:119:SER:C	2.58	0.42
4:O:54:LEU:HD11	9:O:1151:HOH:O	2.20	0.42
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.85	0.42
1:L:89:PHE:HE2	1:L:146:ARG:HB3	1.83	0.42
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.49	0.42
3:N:23:TYR:O	3:N:49:ILE:HG23	2.20	0.42
2:C:878:SER:OG	3:D:1029:ARG:HD3	2.20	0.42
3:D:1481:VAL:HG13	4:E:18:ARG:HE	1.84	0.42
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.84	0.42
2:M:630:ARG:HB2	2:M:705:ILE:HG21	2.02	0.42
2:C:253:ALA:O	2:C:256:TYR:HB2	2.19	0.42
2:C:176:VAL:O	2:C:176:VAL:HG23	2.20	0.42
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.82	0.42
2:C:115:LEU:HA	2:C:375:SER:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:971:LYS:HB3	2:C:988:VAL:N	2.35	0.42
1:L:48:ILE:HD13	1:L:210:ALA:HB1	2.02	0.42
5:F:358:LEU:HD22	5:F:370:LYS:HE3	2.02	0.42
1:A:86:VAL:HG13	1:A:124:ASN:HB2	2.01	0.42
1:K:106:PRO:HG3	1:K:134:GLU:HG2	2.01	0.42
3:N:500:ARG:HG3	3:N:500:ARG:NH1	2.35	0.42
2:C:953:VAL:HG13	2:C:966:LEU:HD13	2.01	0.42
1:K:227:ASN:N	1:K:227:ASN:HD22	2.16	0.42
3:D:1503:VAL:HB	9:D:2384:HOH:O	2.18	0.42
2:M:798:GLY:H	2:M:827:VAL:HG11	1.83	0.42
3:N:1466:VAL:CG2	3:N:1472:ILE:HD11	2.39	0.42
3:N:1242:HIS:CE1	3:N:1266:ARG:HB3	2.54	0.42
3:N:1373:ARG:HD3	9:N:1685:HOH:O	2.18	0.42
2:M:146:VAL:HG22	2:M:162:ILE:HG23	2.01	0.42
2:M:254:VAL:HA	2:M:257:VAL:HG23	2.01	0.42
2:M:265:ARG:CG	2:M:266:ARG:N	2.82	0.42
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.48	0.42
2:M:62:GLY:HA2	2:M:359:MET:HE1	2.01	0.42
3:D:462:GLN:HB2	3:D:513:ILE:HG21	2.02	0.42
3:D:185:VAL:HG21	3:D:191:LEU:HD11	2.01	0.42
3:N:497:GLU:HB2	9:N:1731:HOH:O	2.19	0.42
1:B:89:PHE:HE2	1:B:146:ARG:HB3	1.84	0.42
1:L:54:THR:O	1:L:54:THR:HG22	2.20	0.42
2:C:411:SER:HA	2:C:452:ILE:HA	2.00	0.42
2:M:1003:ASP:O	2:M:1005:MET:N	2.53	0.42
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.49	0.42
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.55	0.42
2:M:599:GLU:CG	2:M:600:ASP:N	2.82	0.42
3:N:1272:ALA:CB	3:N:1326:THR:HB	2.50	0.42
5:F:152:ASP:O	5:F:156:VAL:HB	2.19	0.42
3:D:131:LYS:HG3	3:D:572:ARG:NH2	2.34	0.42
3:N:670:VAL:O	3:N:674:ARG:HG3	2.19	0.42
2:C:136:ILE:CG2	2:C:336:VAL:HG22	2.49	0.42
1:B:173:PRO:HB3	1:B:204:SER:HB3	2.02	0.42
2:M:916:GLU:O	2:M:919:ALA:HB3	2.19	0.42
2:C:479:VAL:HG21	2:C:503:LEU:CD1	2.50	0.42
3:D:1382:THR:CG2	3:D:1418:LYS:HE3	2.49	0.42
2:C:710:ILE:HB	2:C:790:LEU:HD13	2.00	0.42
3:N:1119:SER:HA	3:N:1186:VAL:O	2.20	0.42
2:C:446:GLY:O	2:C:447:ALA:C	2.58	0.42
2:C:1100:GLN:HB2	2:C:1100:GLN:HE21	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:249:ARG:HD2	9:F:655:HOH:O	2.19	0.42
5:P:114:LYS:HD2	9:P:618:HOH:O	2.20	0.42
2:C:1081:VAL:HA	2:C:1082:PRO:HD3	1.86	0.42
3:D:612:GLY:H	3:D:617:ASN:HD21	1.68	0.42
1:L:60:ASP:HB2	1:L:137:ARG:NH1	2.34	0.42
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.83	0.42
3:D:55:ASP:O	3:D:80:VAL:CG1	2.67	0.42
2:M:171:TRP:HZ3	9:M:2226:HOH:O	2.02	0.42
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.54	0.42
3:D:168:THR:HA	3:D:394:LEU:HA	2.02	0.42
3:D:403:PHE:CE2	3:D:443:VAL:N	2.88	0.42
1:L:183:ASP:HA	1:L:192:LEU:O	2.20	0.42
1:B:86:VAL:HG12	1:B:124:ASN:HB2	2.00	0.42
2:C:671:ASN:ND2	2:C:993:PHE:HD2	2.16	0.42
5:F:167:PRO:HD2	5:F:170:HIS:HD2	1.84	0.42
3:D:932:ASP:O	3:D:935:LYS:HB3	2.20	0.42
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.20	0.42
3:D:481:MET:HE3	3:D:1389:LEU:HG	2.00	0.42
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	2.01	0.42
2:M:129:ILE:HG22	2:M:130:ASN:N	2.35	0.42
3:D:749:VAL:HA	3:D:750:PRO:HD3	1.90	0.42
5:F:394:ARG:HB3	9:F:575:HOH:O	2.19	0.42
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.20	0.42
3:D:862:ASP:O	3:D:877:PRO:HD3	2.20	0.42
3:N:1082:ALA:O	3:N:1086:LEU:HG	2.19	0.42
2:M:560:MET:O	2:M:564:MET:HE3	2.19	0.42
3:N:667:ALA:HB1	9:N:1656:HOH:O	2.19	0.42
4:O:6:ILE:HG23	4:O:7:ASP:N	2.34	0.42
3:N:185:VAL:HG21	3:N:191:LEU:HD11	2.00	0.42
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.48	0.42
5:P:284:ARG:O	5:P:286:PRO:N	2.53	0.42
2:C:715:THR:HG22	2:C:717:LEU:H	1.85	0.42
3:N:145:VAL:HG22	3:N:146:PRO:HD2	2.02	0.42
1:A:101:LEU:HD12	1:A:114:PHE:CE1	2.55	0.42
3:N:820:GLU:HB3	3:N:836:VAL:HG21	2.01	0.42
1:B:28:LEU:HA	9:B:395:HOH:O	2.19	0.42
2:M:443:THR:HG21	2:M:449:ILE:HG13	2.02	0.42
4:O:77:GLU:HG3	9:O:3449:HOH:O	2.20	0.42
1:A:156:HIS:CD2	1:A:157:GLY:H	2.38	0.42
3:N:1264:GLU:CG	3:N:1425:THR:H	2.32	0.42
3:N:1205:TYR:CE2	3:N:1366:LYS:HD3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:289:THR:HG22	2:M:290:LEU:H	1.84	0.42
2:M:259:GLY:O	2:M:290:LEU:O	2.38	0.42
3:D:544:TYR:N	9:D:1714:HOH:O	2.52	0.42
3:D:84:ILE:O	3:D:87:ARG:HB3	2.19	0.42
2:C:911:GLU:HB3	2:C:912:PRO:HD3	2.02	0.42
2:M:722:ILE:HG23	2:M:805:ARG:HH21	1.85	0.42
3:D:957:PRO:HD2	3:D:1007:VAL:HG12	2.00	0.42
2:M:487:THR:HG22	2:M:488:ALA:N	2.35	0.42
3:N:421:LEU:HD13	3:N:444:VAL:CG1	2.50	0.42
1:B:158:ILE:HD11	1:B:165:ILE:C	2.40	0.42
3:N:48:ARG:HB2	9:N:2213:HOH:O	2.18	0.42
3:N:526:PRO:HB2	5:P:317:LEU:HD11	2.02	0.42
2:C:142:ARG:HG2	9:C:1315:HOH:O	2.20	0.42
3:D:729:HIS:ND1	3:D:730:PRO:HD2	2.34	0.42
3:D:1258:ARG:NE	3:D:1262:LEU:HD11	2.35	0.42
2:M:676:ILE:O	2:M:676:ILE:CG2	2.68	0.42
3:N:704:ARG:HB2	3:N:736:PHE:HB3	2.01	0.42
2:M:461:VAL:HG12	9:M:1945:HOH:O	2.19	0.42
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.20	0.42
3:D:133:ILE:HD11	3:D:155:ASP:OD1	2.19	0.42
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.55	0.42
2:M:178:PRO:HB3	9:M:1853:HOH:O	2.19	0.42
3:N:500:ARG:O	3:N:504:ASP:HB2	2.20	0.42
2:M:498:GLN:NE2	2:M:498:GLN:HA	2.34	0.42
2:M:183:SER:CB	2:M:190:LYS:HD3	2.50	0.42
3:D:1311:LEU:CD2	3:D:1311:LEU:H	2.32	0.42
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.47	0.42
3:N:1153:VAL:HG12	3:N:1155:VAL:CG2	2.50	0.42
1:K:181:VAL:HG12	9:K:2597:HOH:O	2.20	0.42
2:C:967:PHE:CD1	2:C:972:VAL:HG12	2.55	0.42
3:N:1382:THR:HG21	3:N:1418:LYS:CE	2.50	0.42
3:D:141:ILE:HG21	3:D:450:TYR:H	1.85	0.42
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.50	0.42
1:A:79:ILE:O	1:A:83:LYS:HG3	2.19	0.42
3:D:1467:ILE:HG12	7:D:1527:MXP:H16A	2.02	0.42
3:N:959:GLU:H	3:N:959:GLU:HG2	1.24	0.42
3:N:959:GLU:O	3:N:963:TYR:HD1	2.03	0.42
2:M:146:VAL:HG11	2:M:306:THR:CG2	2.47	0.42
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.15	0.42
2:C:12:VAL:HB	2:C:472:ARG:CZ	2.50	0.42
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:563:PRO:HG2	5:P:188:ILE:HG21	2.00	0.42
3:D:119:SER:CB	3:D:123:LEU:HB2	2.40	0.42
1:L:27:PRO:HB3	1:L:192:LEU:CD2	2.50	0.42
3:N:76:CYS:HA	9:N:1714:HOH:O	2.20	0.42
4:E:48:MET:N	4:E:54:LEU:HB2	2.34	0.42
2:C:139:GLN:HE22	2:C:415:PRO:HG2	1.85	0.42
2:C:460:ARG:HG2	2:C:485:TYR:CE2	2.55	0.42
2:C:254:VAL:HA	2:C:257:VAL:HG23	2.02	0.42
3:N:1066:THR:OG1	3:N:1067:VAL:N	2.51	0.42
3:D:162:ARG:O	3:D:449:SER:OG	2.38	0.42
5:F:88:ILE:HB	5:F:193:ARG:HD2	2.01	0.42
5:F:88:ILE:HD13	5:F:193:ARG:CB	2.50	0.42
2:M:1067:TYR:CE1	3:N:655:PRO:HG3	2.50	0.42
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.49	0.42
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.49	0.42
2:C:634:GLY:HA2	9:C:1287:HOH:O	2.20	0.42
3:D:112:ILE:CD1	3:D:461:ILE:HG21	2.50	0.42
3:D:897:TRP:HB2	9:D:1776:HOH:O	2.20	0.42
1:K:48:ILE:HG22	1:K:173:PRO:CD	2.49	0.42
5:F:192:LEU:O	5:F:196:VAL:HG23	2.19	0.42
2:C:299:LYS:O	2:C:299:LYS:HG3	2.20	0.42
1:K:177:VAL:O	2:M:864:GLY:HA3	2.19	0.42
2:M:479:VAL:CG1	2:M:532:MET:HE2	2.50	0.42
3:D:1134:LEU:HD22	9:D:1694:HOH:O	2.20	0.42
1:A:55:SER:HB2	1:A:158:ILE:HG21	2.01	0.42
1:L:133:GLU:HB3	9:L:1918:HOH:O	2.20	0.42
2:M:411:SER:CB	2:M:452:ILE:HG23	2.50	0.42
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.19	0.42
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.02	0.42
2:C:443:THR:HG23	2:C:449:ILE:HG13	2.02	0.42
5:F:93:LEU:HG	5:F:190:ALA:HB1	2.02	0.42
1:L:108:GLU:HG2	9:L:1515:HOH:O	2.19	0.42
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.55	0.42
1:A:143:ARG:HB2	9:A:331:HOH:O	2.19	0.42
2:C:247:PRO:HB2	9:C:1179:HOH:O	2.20	0.42
3:D:614:PHE:CG	3:D:617:ASN:HB3	2.55	0.41
2:C:124:ASP:HB2	2:C:407:LYS:NZ	2.35	0.41
2:M:170:PRO:HG2	2:M:258:TYR:HD2	1.82	0.41
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.20	0.41
2:M:301:GLU:O	2:M:305:PRO:HG2	2.20	0.41
5:P:271:LEU:CG	5:P:295:MET:HE1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:756:VAL:HG12	2:M:757:GLY:N	2.35	0.41
2:C:950:LEU:HD12	9:C:1205:HOH:O	2.20	0.41
4:O:40:LEU:C	4:O:42:PRO:HD2	2.41	0.41
2:C:204:GLN:NE2	9:C:1386:HOH:O	2.53	0.41
5:F:88:ILE:HD13	5:F:193:ARG:CD	2.47	0.41
3:N:1283:ILE:HD12	3:N:1315:ASP:CG	2.40	0.41
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.35	0.41
3:D:804:LEU:O	3:D:831:GLY:HA2	2.20	0.41
3:N:1274:ILE:HD11	3:N:1334:GLN:HE21	1.82	0.41
2:M:1043:TYR:HE1	3:N:710:ARG:O	2.03	0.41
3:N:584:ASN:OD1	3:N:590:PRO:HD2	2.20	0.41
3:N:1195:GLN:HG3	3:N:1196:THR:N	2.34	0.41
3:D:661:MET:CE	3:D:673:ALA:HB1	2.50	0.41
1:K:41:ARG:HD2	9:K:1774:HOH:O	2.19	0.41
1:K:156:HIS:CD2	1:K:157:GLY:H	2.38	0.41
3:N:984:THR:HG23	3:N:986:ARG:H	1.85	0.41
5:P:348:SER:OG	5:P:349:LEU:N	2.53	0.41
3:N:840:LYS:HB3	3:N:841:TYR:CE2	2.55	0.41
1:K:54:THR:O	1:K:54:THR:HG22	2.19	0.41
3:D:587:ARG:O	3:D:588:GLY:O	2.38	0.41
2:C:752:GLY:H	2:C:792:VAL:HB	1.85	0.41
2:C:426:ASP:OD1	2:C:427:VAL:HG22	2.19	0.41
2:C:854:PRO:C	2:C:856:GLU:N	2.72	0.41
3:D:608:SER:C	3:D:610:LYS:N	2.72	0.41
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.42	0.41
2:C:1094:ALA:CB	3:D:603:LEU:HD22	2.51	0.41
2:C:862:PRO:HD3	2:C:973:VAL:O	2.19	0.41
3:N:122:GLU:N	9:N:1620:HOH:O	2.52	0.41
3:N:432:TYR:O	3:N:448:GLU:HA	2.20	0.41
2:C:328:LEU:HD13	2:C:433:THR:CB	2.47	0.41
2:C:952:LEU:N	2:C:952:LEU:HD22	2.35	0.41
2:C:969:GLN:HG3	9:C:1350:HOH:O	2.20	0.41
3:N:1486:VAL:CG1	4:O:73:LEU:HD22	2.50	0.41
2:C:290:LEU:N	2:C:290:LEU:HD23	2.36	0.41
5:F:85:LEU:HA	5:F:88:ILE:CD1	2.44	0.41
3:D:804:LEU:N	9:D:1726:HOH:O	2.53	0.41
3:N:1323:GLN:HG3	3:N:1324:PRO:CD	2.50	0.41
2:C:274:ARG:CZ	2:C:285:LEU:H	2.33	0.41
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.50	0.41
5:P:147:LEU:HD23	5:P:147:LEU:HA	1.80	0.41
2:C:86:LYS:CD	9:C:1425:HOH:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.18	0.41
2:M:724:ARG:HA	2:M:737:LEU:CD2	2.50	0.41
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.41
5:F:116:LEU:HB2	5:F:127:ILE:HD12	2.01	0.41
3:N:186:VAL:HB	3:N:189:GLN:HB2	2.02	0.41
2:M:926:PHE:O	2:M:929:ARG:HB3	2.20	0.41
2:M:22:GLN:OE1	2:M:336:VAL:HG21	2.20	0.41
3:D:1134:LEU:HD21	3:D:1175:ILE:HG23	2.01	0.41
2:C:1039:ALA:HB3	3:D:713:ILE:HD12	2.02	0.41
1:K:124:ASN:OD1	1:K:127:LEU:HB3	2.20	0.41
5:P:220:LEU:O	5:P:223:ALA:HB3	2.20	0.41
3:N:1135:ARG:HH21	3:N:1350:GLU:CD	2.23	0.41
5:F:222:ARG:HG2	9:F:631:HOH:O	2.19	0.41
3:D:172:PRO:O	3:D:174:GLY:N	2.52	0.41
5:F:104:ARG:NH1	9:F:673:HOH:O	2.53	0.41
2:M:557:ARG:CZ	2:M:879:ARG:HG2	2.50	0.41
2:C:118:ILE:CG2	2:C:382:ILE:HD13	2.50	0.41
3:N:119:SER:CB	3:N:123:LEU:HB2	2.40	0.41
3:N:131:LYS:O	3:N:133:ILE:HD13	2.21	0.41
3:D:116:LEU:HD23	3:D:118:LEU:HD21	2.01	0.41
3:N:405:ASP:HB3	9:N:1860:HOH:O	2.20	0.41
3:D:103:TRP:HE1	3:D:604:THR:CG2	2.33	0.41
2:C:412:ALA:HB1	2:C:419:THR:HG21	2.01	0.41
3:D:835:SER:O	3:D:837:GLY:N	2.53	0.41
1:K:18:ARG:HH12	1:K:88:ARG:CD	2.33	0.41
5:F:76:SER:O	5:F:80:PRO:HG2	2.20	0.41
3:D:131:LYS:HD2	5:F:83:GLN:CD	2.40	0.41
3:D:874:GLU:HG3	9:D:1855:HOH:O	2.20	0.41
1:A:180:GLN:HE21	1:A:180:GLN:HB3	1.62	0.41
3:D:1350:GLU:O	3:D:1350:GLU:HG3	2.21	0.41
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.35	0.41
1:A:211:LEU:HD12	1:A:211:LEU:O	2.21	0.41
2:C:709:GLU:HG3	2:C:824:ARG:CG	2.50	0.41
1:K:79:ILE:O	1:K:83:LYS:HG3	2.19	0.41
3:N:688:TRP:HA	3:N:688:TRP:CE3	2.56	0.41
2:C:394:PHE:HB2	9:C:1403:HOH:O	2.19	0.41
2:C:853:LEU:HG	9:C:1271:HOH:O	2.20	0.41
2:M:875:GLY:HA2	2:M:879:ARG:HH11	1.85	0.41
2:C:64:LEU:HG	2:C:65:VAL:N	2.34	0.41
3:D:560:GLN:O	5:F:132:ARG:NH1	2.47	0.41
2:M:597:ALA:O	2:M:652:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1217:ILE:N	9:D:2106:HOH:O	2.52	0.41
5:P:315:VAL:HG11	9:P:467:HOH:O	2.20	0.41
3:D:633:VAL:O	3:D:635:PRO:HD3	2.20	0.41
2:C:540:PHE:HE1	2:C:906:PHE:HE1	1.68	0.41
1:K:115:LEU:HA	1:K:116:PRO:HD3	1.90	0.41
3:D:1057:VAL:HG22	3:D:1069:GLU:HB3	2.02	0.41
2:C:815:LEU:HD12	9:C:1534:HOH:O	2.20	0.41
5:P:172:ARG:HD3	9:P:483:HOH:O	2.21	0.41
1:K:159:LYS:HA	9:K:1082:HOH:O	2.19	0.41
5:F:117:SER:HB3	5:F:122:LEU:O	2.19	0.41
2:M:1100:GLN:HB2	2:M:1100:GLN:HE21	1.65	0.41
3:N:686:GLU:HA	3:N:689:ASP:OD2	2.21	0.41
3:N:696:HIS:HB3	9:N:1565:HOH:O	2.19	0.41
3:D:1490:LYS:HG2	9:D:2098:HOH:O	2.19	0.41
3:D:501:ALA:HB2	9:D:2147:HOH:O	2.20	0.41
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.36	0.41
3:D:90:MET:HE2	3:D:521:PRO:HD3	2.01	0.41
3:N:852:ALA:HB1	3:N:857:ILE:HB	2.02	0.41
3:D:1191:PRO:HD3	3:D:1204:CYS:O	2.21	0.41
3:N:570:GLU:HB2	5:P:214:GLN:NE2	2.35	0.41
1:L:147:GLY:N	1:L:171:PHE:CE1	2.88	0.41
3:D:693:GLU:HG2	9:D:1780:HOH:O	2.21	0.41
3:N:50:PHE:CD2	3:N:522:PRO:HG3	2.56	0.41
3:N:87:ARG:HB2	3:N:523:ASP:HB2	2.03	0.41
1:A:47:SER:OG	1:B:32:PHE:HZ	2.03	0.41
2:M:113:VAL:HB	2:M:115:LEU:HD23	2.02	0.41
3:D:850:LEU:CD1	3:D:850:LEU:H	2.24	0.41
2:C:396:ASP:HA	2:C:633:GLN:CD	2.40	0.41
5:P:163:LEU:HD13	5:P:174:LEU:CD1	2.51	0.41
3:D:1171:VAL:HG12	3:D:1171:VAL:O	2.21	0.41
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.56	0.41
3:D:767:HIS:NE2	4:E:6:ILE:HG12	2.36	0.41
2:M:475:VAL:O	2:M:478:VAL:HB	2.20	0.41
3:D:196:VAL:HG13	9:D:1768:HOH:O	2.20	0.41
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.51	0.41
2:C:1034:GLU:O	2:C:1037:VAL:HG23	2.21	0.41
2:M:22:GLN:HE22	2:M:135:VAL:CG1	2.33	0.41
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	2.02	0.41
3:D:688:TRP:HE3	3:D:688:TRP:HA	1.86	0.41
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.55	0.41
2:C:127:PHE:O	2:C:133:ASP:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:118:ILE:H	2:C:118:ILE:HG13	1.64	0.41
3:N:570:GLU:HB2	5:P:214:GLN:HE22	1.85	0.41
3:D:204:LEU:HD21	3:D:445:ARG:HH12	1.86	0.41
1:L:127:LEU:HD12	9:L:1125:HOH:O	2.20	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:N	2.32	0.41
4:E:41:GLU:HB2	4:E:45:ARG:NH1	2.36	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.49	0.41
2:C:462:ASP:HB3	2:C:468:ARG:CD	2.50	0.41
3:D:29:PRO:HG2	3:D:549:ASN:HD21	1.84	0.41
3:N:637:LEU:HD12	3:N:641:GLN:HB2	2.02	0.41
3:N:806:PHE:O	3:N:808:THR:N	2.53	0.41
3:N:775:GLY:C	9:N:1689:HOH:O	2.58	0.41
2:M:292:ARG:NH1	2:M:299:LYS:HD3	2.35	0.41
3:D:1209:LEU:HD12	3:D:1219:GLU:CD	2.41	0.41
5:F:196:VAL:HG22	5:F:213:ILE:HD13	2.01	0.41
2:C:742:VAL:HG21	9:C:1160:HOH:O	2.19	0.41
2:M:663:ASN:C	2:M:665:PHE:H	2.24	0.41
3:D:1122:LEU:O	3:D:1134:LEU:HA	2.20	0.41
2:C:479:VAL:HG13	2:C:508:ILE:HD12	2.03	0.41
5:F:215:GLU:OE2	5:F:254:GLN:NE2	2.50	0.41
5:P:305:GLU:HG2	5:P:309:LYS:HE3	2.01	0.41
5:F:75:ILE:HG13	9:F:645:HOH:O	2.20	0.41
2:C:24:GLU:HG2	2:C:27:ARG:CD	2.50	0.41
2:C:592:LEU:HA	2:C:592:LEU:HD23	1.90	0.41
2:C:620:LEU:O	2:C:620:LEU:HD12	2.21	0.41
5:P:169:GLU:HG3	5:P:169:GLU:H	1.67	0.41
2:M:327:HIS:O	2:M:330:ASN:HB2	2.21	0.41
3:D:832:ARG:HB2	9:D:1797:HOH:O	2.19	0.41
3:D:889:ALA:HB1	3:D:930:LEU:HA	2.02	0.41
3:D:766:ALA:O	3:D:769:LEU:HD21	2.19	0.41
2:M:374:ASN:O	2:M:377:PRO:HD2	2.20	0.41
3:N:1276:GLU:OE2	3:N:1303:TYR:HE2	2.04	0.41
3:N:611:GLN:N	9:N:1557:HOH:O	2.54	0.41
1:B:57:TYR:CE2	1:B:59:GLU:HA	2.55	0.41
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.84	0.41
2:M:264:PRO:HB3	2:M:289:THR:CB	2.50	0.41
2:C:914:ILE:HA	2:C:914:ILE:HD12	1.74	0.41
2:M:968:LEU:HD13	9:M:2164:HOH:O	2.21	0.41
2:C:162:ILE:CD1	2:C:306:THR:HG21	2.50	0.41
1:K:101:LEU:HD23	1:K:102:LYS:N	2.35	0.41
3:N:637:LEU:HD11	3:N:642:CYS:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1013:TYR:OH	3:D:624:ASP:OD2	2.37	0.41
2:C:274:ARG:HB2	2:C:285:LEU:HB3	2.02	0.41
3:N:818:ARG:O	3:N:821:VAL:HB	2.20	0.41
2:M:299:LYS:O	2:M:299:LYS:HG3	2.21	0.41
2:C:437:ARG:HG2	2:C:467:ILE:O	2.21	0.41
2:M:724:ARG:HB2	2:M:740:GLU:HA	2.01	0.41
5:F:321:ILE:HG13	5:F:329:TYR:HA	2.01	0.41
3:N:911:LEU:O	3:N:915:VAL:HG23	2.20	0.41
3:D:165:LYS:HG2	9:D:1699:HOH:O	2.21	0.41
2:C:1002:GLU:O	2:C:1003:ASP:C	2.58	0.41
1:K:158:ILE:HG22	1:K:159:LYS:N	2.35	0.41
2:M:663:ASN:HD22	2:M:663:ASN:HA	1.52	0.41
2:M:22:GLN:HE22	2:M:135:VAL:HG12	1.85	0.41
4:O:49:GLN:C	4:O:51:LEU:N	2.74	0.41
9:A:432:HOH:O	2:C:832:LYS:HE3	2.20	0.41
3:D:601:ARG:HG3	9:D:2091:HOH:O	2.21	0.41
9:C:1734:HOH:O	3:D:1471:LEU:HD12	2.20	0.41
1:L:172:SER:OG	1:L:174:VAL:HB	2.21	0.41
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.19	0.41
3:D:771:SER:HA	3:D:772:PRO:HD3	1.91	0.41
3:D:596:SER:C	3:D:598:ARG:H	2.24	0.41
2:M:1054:THR:HB	2:M:1055:LEU:H	1.61	0.41
1:L:101:LEU:HD12	1:L:114:PHE:CA	2.50	0.41
2:C:313:LEU:HD12	2:C:313:LEU:O	2.21	0.41
2:C:96:ALA:HB2	9:C:1545:HOH:O	2.20	0.41
3:N:105:VAL:HG12	3:N:106:LYS:HG3	2.02	0.41
2:M:140:ILE:HD12	2:M:140:ILE:H	1.86	0.41
3:N:165:LYS:CG	3:N:397:LYS:HD3	2.50	0.41
2:C:952:LEU:CD1	2:C:969:GLN:HE22	2.19	0.41
3:N:489:ARG:HD3	9:N:1694:HOH:O	2.20	0.41
3:D:1459:LEU:HB2	3:D:1470:ARG:NH1	2.35	0.41
2:C:414:GLY:O	2:C:416:GLY:N	2.54	0.41
2:C:469:THR:HG23	2:C:471:TYR:CE1	2.56	0.41
2:C:172:ILE:N	2:C:172:ILE:HD12	2.34	0.41
2:M:1008:ARG:CZ	2:M:1020:PRO:HB3	2.51	0.41
3:N:1223:ILE:O	3:N:1224:VAL:C	2.59	0.41
2:M:676:ILE:HG21	2:M:988:VAL:HG22	2.01	0.41
5:F:284:ARG:O	5:F:286:PRO:N	2.53	0.41
3:N:1147:ARG:NH1	9:N:2122:HOH:O	2.52	0.41
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.85	0.41
3:N:206:ARG:HA	9:N:2058:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:804:LEU:O	3:N:831:GLY:HA2	2.21	0.41
1:L:142:VAL:O	1:L:142:VAL:HG23	2.21	0.41
5:P:371:LEU:HB2	5:P:372:ARG:HH11	1.86	0.41
1:L:117:VAL:HB	1:L:120:VAL:HB	2.03	0.41
2:M:278:GLU:HA	2:M:283:ILE:HA	2.03	0.41
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.20	0.41
2:C:511:GLU:N	9:C:1690:HOH:O	2.53	0.41
1:K:16:GLN:HB2	9:K:3198:HOH:O	2.20	0.41
4:E:50:THR:HA	9:E:107:HOH:O	2.20	0.41
3:D:1339:LYS:HB3	3:D:1343:ALA:HB2	2.02	0.41
3:N:1341:PRO:HB2	9:N:1945:HOH:O	2.19	0.41
3:N:1051:GLU:HG3	3:N:1051:GLU:H	1.53	0.41
3:N:899:LEU:HD12	3:N:900:ILE:HG23	2.02	0.41
5:P:350:LEU:O	5:P:354:LEU:HB2	2.21	0.41
5:F:280:GLN:NE2	9:F:601:HOH:O	2.54	0.41
1:A:46:SER:HB3	2:C:856:GLU:CD	2.41	0.41
3:D:998:GLU:HB3	9:D:2202:HOH:O	2.20	0.41
3:D:415:VAL:HG13	3:D:419:ASP:HB2	2.01	0.41
3:N:611:GLN:CG	3:N:619:LEU:CG	2.91	0.41
3:N:1264:GLU:HA	3:N:1423:GLY:CA	2.51	0.41
3:N:1442:ASN:N	9:N:1579:HOH:O	2.53	0.41
3:N:1441:GLN:N	9:N:1579:HOH:O	2.54	0.41
3:N:1369:GLU:HA	3:N:1372:VAL:HG12	2.02	0.41
4:O:16:LYS:HD3	4:O:17:TYR:CE2	2.56	0.41
2:C:149:THR:HA	2:C:150:PRO:HD3	1.92	0.41
2:M:218:VAL:CA	2:M:221:LEU:HD23	2.50	0.41
3:D:85:VAL:HG11	3:D:89:ARG:NH2	2.35	0.41
3:D:44:LEU:HD21	3:D:544:TYR:HB3	2.03	0.41
3:D:93:ILE:HD13	3:D:547:LEU:HD23	2.03	0.41
2:M:911:GLU:HB3	2:M:912:PRO:HD3	2.03	0.41
3:N:572:ARG:HD3	3:N:572:ARG:HH11	1.63	0.41
2:M:280:LYS:HA	9:M:1935:HOH:O	2.20	0.41
2:M:56:GLU:OE2	2:M:356:ARG:HG2	2.20	0.41
3:D:119:SER:N	3:D:123:LEU:HD22	2.26	0.41
3:N:192:ALA:HB2	3:N:393:ILE:CD1	2.51	0.41
3:N:398:ALA:HB2	9:N:1561:HOH:O	2.21	0.41
3:N:417:PRO:HG3	3:N:430:ASP:O	2.21	0.41
2:C:969:GLN:HE21	2:C:969:GLN:HB3	1.72	0.41
1:B:111:ALA:HB3	1:B:124:ASN:O	2.21	0.41
4:O:54:LEU:HA	4:O:58:PRO:CG	2.50	0.41
3:N:60:CYS:N	3:N:76:CYS:SG	2.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:53:GLY:C	4:E:55:PHE:H	2.24	0.41
3:D:1361:VAL:HG23	9:D:1625:HOH:O	2.21	0.41
1:A:18:ARG:HH12	1:A:88:ARG:HD3	1.86	0.41
2:M:131:GLY:HA2	9:M:1651:HOH:O	2.20	0.41
3:D:482:LYS:HB2	9:D:1744:HOH:O	2.20	0.41
3:D:29:PRO:CB	3:D:545:ARG:HG2	2.49	0.41
2:M:971:LYS:HB3	2:M:988:VAL:N	2.36	0.41
2:M:129:ILE:CD1	2:M:386:PHE:HB3	2.51	0.41
3:D:704:ARG:HB2	3:D:736:PHE:HB3	2.03	0.41
2:M:958:THR:HG23	2:M:961:GLU:HB2	2.03	0.41
2:M:535:SER:HB2	2:M:537:LYS:HG3	2.03	0.41
2:M:408:ARG:HD2	2:M:408:ARG:HH11	1.74	0.41
3:N:705:ALA:CB	3:N:706:PRO:CD	2.94	0.41
2:M:255:ALA:HB3	2:M:298:PHE:CZ	2.56	0.41
2:C:724:ARG:HB2	2:C:740:GLU:HA	2.02	0.41
1:K:48:ILE:HD11	1:K:210:ALA:O	2.21	0.41
3:N:1000:THR:CG2	3:N:1001:GLU:N	2.84	0.41
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.56	0.41
3:N:1148:VAL:HG21	3:N:1203:LYS:HA	2.03	0.41
2:C:815:LEU:HG	2:C:819:VAL:HG11	2.00	0.41
2:C:612:VAL:HG22	2:C:622:GLU:HG3	2.02	0.41
2:C:612:VAL:HG22	2:C:622:GLU:CB	2.51	0.41
2:C:818:GLY:N	5:F:309:LYS:CE	2.82	0.41
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.51	0.41
1:K:198:ARG:NH2	9:K:1749:HOH:O	2.54	0.41
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.21	0.41
3:N:562:ALA:HB3	9:P:599:HOH:O	2.20	0.41
2:M:190:LYS:H	2:M:190:LYS:HG3	1.56	0.41
2:C:7:GLY:O	2:C:907:ASP:OD1	2.38	0.41
1:A:227:ASN:ND2	1:A:227:ASN:N	2.65	0.41
2:M:34:VAL:CG2	2:M:38:LYS:HD3	2.49	0.41
3:N:711:LEU:C	3:N:713:ILE:N	2.74	0.41
3:N:1155:VAL:CG1	3:N:1177:ALA:HB1	2.50	0.41
5:P:207:LEU:HD23	5:P:207:LEU:HA	1.95	0.41
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.50	0.41
3:D:899:LEU:HD12	3:D:900:ILE:HG23	2.03	0.41
2:C:807:ARG:HA	2:C:821:GLU:HB2	2.02	0.41
1:K:49:PRO:HB3	1:K:148:VAL:CG2	2.51	0.41
5:P:277:GLN:HA	9:P:458:HOH:O	2.21	0.41
2:C:317:VAL:HB	9:C:1324:HOH:O	2.20	0.41
1:L:75:VAL:O	1:L:79:ILE:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:33:ASN:HB3	9:D:2304:HOH:O	2.21	0.41
3:N:771:SER:HA	3:N:772:PRO:HD3	1.86	0.41
3:D:647:ARG:HB2	9:D:1878:HOH:O	2.21	0.41
1:A:170:VAL:HA	9:A:399:HOH:O	2.21	0.41
2:C:45:GLN:NE2	9:C:1426:HOH:O	2.52	0.41
4:O:36:LYS:HG2	9:O:3235:HOH:O	2.20	0.41
2:C:35:PRO:HB3	9:C:1537:HOH:O	2.21	0.41
3:N:889:ALA:HB1	3:N:930:LEU:HA	2.03	0.41
3:N:1075:HIS:CE1	9:N:1553:HOH:O	2.74	0.41
2:M:1090:LYS:HD2	3:N:90:MET:CE	2.51	0.41
5:P:132:ARG:NH2	5:P:184:ARG:NH1	2.69	0.41
3:N:907:GLU:HG2	3:N:908:LYS:H	1.85	0.41
1:B:158:ILE:CG2	1:B:159:LYS:N	2.83	0.41
2:C:162:ILE:HD12	2:C:172:ILE:HB	2.03	0.41
2:C:166:PRO:HD3	2:C:265:ARG:CB	2.51	0.41
3:D:729:HIS:ND1	3:D:730:PRO:CD	2.84	0.41
3:D:1384:PRO:HB3	3:D:1387:SER:O	2.20	0.41
3:D:1116:ASN:HB3	9:D:2418:HOH:O	2.20	0.41
3:D:687:VAL:CG1	9:D:2185:HOH:O	2.67	0.41
2:C:663:ASN:HD22	2:C:663:ASN:HA	1.51	0.41
3:D:1243:THR:CB	3:D:1253:THR:HB	2.50	0.41
3:D:155:ASP:HA	3:D:158:TYR:HB3	2.03	0.41
2:C:818:GLY:CA	5:F:309:LYS:NZ	2.83	0.41
2:M:182:VAL:HG12	2:M:193:LEU:HD13	2.02	0.41
3:D:1035:ILE:CA	3:D:1038:LEU:HD12	2.50	0.41
2:M:474:VAL:HG23	2:M:478:VAL:O	2.21	0.41
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.36	0.41
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.55	0.41
3:N:1404:ASN:HA	9:N:1794:HOH:O	2.19	0.41
2:C:1097:LEU:N	2:C:1097:LEU:CD1	2.84	0.41
3:N:712:GLY:O	3:N:713:ILE:HG13	2.21	0.41
1:K:85:LEU:HB2	1:K:127:LEU:HD21	2.03	0.41
4:E:49:GLN:C	4:E:51:LEU:N	2.73	0.41
2:M:271:GLU:HA	2:M:275:TYR:CD1	2.56	0.41
3:N:937:TYR:HD2	3:N:941:PHE:HE1	1.69	0.41
2:C:707:ARG:CZ	2:C:824:ARG:CZ	2.98	0.41
3:N:601:ARG:HG2	3:N:605:ASP:OD1	2.21	0.41
1:L:101:LEU:HD12	1:L:113:ASP:C	2.40	0.40
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.50	0.40
3:N:106:LYS:HZ2	3:N:587:ARG:HH11	1.69	0.40
2:M:437:ARG:NH1	2:M:488:ALA:HA	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.21	0.40
3:N:515:GLU:HG3	9:N:1827:HOH:O	2.20	0.40
3:N:516:ALA:HB1	9:N:2118:HOH:O	2.21	0.40
2:C:234:ALA:HA	2:C:237:ARG:HB2	2.02	0.40
5:P:321:ILE:HB	5:P:327:SER:OG	2.21	0.40
2:C:442:GLU:O	2:C:442:GLU:HG3	2.21	0.40
2:C:874:LEU:HD23	3:D:1023:MET:HE1	2.03	0.40
2:M:512:ARG:HB3	2:M:523:ILE:HD11	2.03	0.40
3:N:1223:ILE:O	3:N:1227:GLN:HG3	2.22	0.40
3:N:850:LEU:H	3:N:850:LEU:CD1	2.24	0.40
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.56	0.40
3:N:729:HIS:CE1	3:N:935:LYS:HD3	2.56	0.40
2:M:840:ALA:HB2	2:M:846:LYS:HA	2.02	0.40
2:C:292:ARG:NH1	9:C:1267:HOH:O	2.54	0.40
2:C:836:GLY:HA3	3:D:724:GLN:OE1	2.20	0.40
2:M:471:TYR:CD2	2:M:496:ILE:HG21	2.55	0.40
2:M:929:ARG:HH22	2:M:940:GLU:CD	2.24	0.40
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.51	0.40
3:D:717:GLN:CG	9:D:1581:HOH:O	2.68	0.40
3:D:760:ARG:HD2	4:E:3:GLU:CD	2.41	0.40
3:D:684:LYS:HG2	9:D:2411:HOH:O	2.20	0.40
2:C:495:THR:HG21	2:C:524:VAL:HG21	2.02	0.40
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.51	0.40
3:N:1396:GLU:HG2	3:N:1396:GLU:O	2.22	0.40
3:D:674:ARG:HG2	3:D:674:ARG:HH11	1.86	0.40
2:M:242:LEU:HD23	2:M:242:LEU:HA	1.78	0.40
3:D:1447:LEU:O	3:D:1448:THR:C	2.60	0.40
2:M:861:LEU:CD2	2:M:925:TYR:HE2	2.33	0.40
2:C:518:LYS:N	9:C:1698:HOH:O	2.52	0.40
2:C:91:GLN:HG2	2:C:119:PRO:HG3	2.03	0.40
5:P:256:ARG:HA	9:P:486:HOH:O	2.21	0.40
5:F:90:GLN:HE21	5:F:90:GLN:HB3	1.73	0.40
2:C:269:LEU:O	2:C:269:LEU:HD23	2.22	0.40
2:M:414:GLY:O	2:M:416:GLY:N	2.54	0.40
3:D:610:LYS:HB3	7:D:1527:MXP:H15	2.03	0.40
2:M:1060:ILE:O	2:M:1063:ARG:HG2	2.20	0.40
2:M:308:ARG:HG2	9:M:1753:HOH:O	2.21	0.40
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.84	0.40
2:M:143:SER:HB2	2:M:276:LYS:HZ1	1.83	0.40
2:M:361:MET:HE2	9:M:2183:HOH:O	2.20	0.40
3:D:400:VAL:HG13	3:D:402:PRO:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:489:ARG:NH2	3:N:1389:LEU:HD11	2.32	0.40
1:L:158:ILE:CG2	1:L:159:LYS:N	2.84	0.40
2:C:464:LEU:HD12	2:C:465:GLY:N	2.36	0.40
2:C:468:ARG:NH1	9:C:1743:HOH:O	2.54	0.40
2:M:674:VAL:O	2:M:989:VAL:HA	2.20	0.40
2:C:858:MET:HB2	2:C:859:PRO:CD	2.51	0.40
2:C:181:VAL:HG12	2:C:182:VAL:N	2.36	0.40
3:D:1114:THR:HG23	3:D:1116:ASN:ND2	2.36	0.40
3:D:152:LEU:HD23	3:D:152:LEU:N	2.27	0.40
1:K:107:LYS:HE3	1:K:113:ASP:OD2	2.19	0.40
3:N:951:ILE:HD12	3:N:1062:ARG:HG3	2.02	0.40
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.48	0.40
5:F:94:LEU:HB2	5:F:98:GLU:CG	2.52	0.40
3:N:1161:GLU:H	3:N:1161:GLU:HG2	1.37	0.40
1:L:197:LEU:HD21	1:L:199:ILE:CD1	2.47	0.40
1:K:201:THR:HG21	1:K:205:VAL:O	2.20	0.40
5:F:364:ARG:HH12	5:F:396:ARG:CZ	2.34	0.40
2:M:400:PRO:O	2:M:401:LEU:C	2.58	0.40
2:C:15:LEU:HA	2:C:16:PRO:HD3	1.95	0.40
3:N:1087:ARG:HD3	3:N:1238:MET:H	1.86	0.40
3:D:1394:VAL:HG23	9:D:2328:HOH:O	2.21	0.40
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.57	0.40
2:M:929:ARG:HH12	2:M:940:GLU:CD	2.24	0.40
5:F:270:LYS:N	9:F:511:HOH:O	2.54	0.40
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.56	0.40
3:N:530:VAL:HG23	3:N:534:ARG:O	2.21	0.40
3:D:840:LYS:NZ	9:D:2398:HOH:O	2.55	0.40
2:M:606:VAL:HG21	2:M:645:VAL:HG22	2.03	0.40
2:M:443:THR:HA	2:M:444:PRO:HD3	1.80	0.40
2:C:958:THR:HA	9:C:1402:HOH:O	2.19	0.40
2:M:75:GLU:HA	2:M:76:PRO:HD3	1.97	0.40
2:C:708:TYR:N	2:C:708:TYR:CD1	2.89	0.40
3:N:596:SER:C	3:N:598:ARG:H	2.24	0.40
2:M:1017:THR:OG1	2:M:1019:GLN:HG3	2.22	0.40
3:N:1435:LEU:HD23	3:N:1467:ILE:HD12	2.02	0.40
1:B:61:VAL:N	1:B:137:ARG:NH2	2.67	0.40
3:D:1335:LEU:HD23	3:D:1344:VAL:CA	2.28	0.40
3:N:1366:LYS:O	3:N:1369:GLU:HB2	2.22	0.40
2:M:221:LEU:HG	2:M:222:MET:N	2.37	0.40
3:D:521:PRO:O	3:D:525:ARG:NH1	2.52	0.40
3:D:93:ILE:HD13	3:D:548:ILE:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:110:GLU:HB3	2:M:369:PRO:HG3	2.02	0.40
4:O:26:ARG:HG2	4:O:67:GLU:OE1	2.22	0.40
5:F:205:ARG:NH1	5:F:248:ASN:OD1	2.54	0.40
2:M:586:ARG:NE	2:M:590:ASP:OD2	2.53	0.40
3:N:46:ASP:O	3:N:48:ARG:N	2.54	0.40
2:M:950:LEU:HB3	2:M:952:LEU:HD23	2.02	0.40
2:C:263:ASP:C	2:C:264:PRO:O	2.59	0.40
3:D:797:LYS:HA	3:D:828:LYS:HB2	2.04	0.40
3:N:862:ASP:O	3:N:876:SER:HB2	2.21	0.40
3:D:638:LYS:C	3:D:729:HIS:HD2	2.25	0.40
2:C:865:THR:HG23	2:C:865:THR:O	2.21	0.40
2:C:773:LEU:HG	2:C:777:ILE:HD11	2.03	0.40
2:M:480:THR:CG2	2:M:481:ASP:H	2.34	0.40
2:C:721:ARG:NE	9:C:1244:HOH:O	2.55	0.40
3:D:1066:THR:OG1	3:D:1067:VAL:N	2.53	0.40
2:M:234:ALA:HA	2:M:237:ARG:HB2	2.02	0.40
2:C:1010:THR:HG22	2:C:1011:GLY:N	2.36	0.40
1:K:28:LEU:HA	1:K:28:LEU:HD23	1.77	0.40
2:M:420:ARG:HG2	2:M:420:ARG:H	1.44	0.40
3:N:932:ASP:O	3:N:935:LYS:HB3	2.22	0.40
1:L:10:VAL:HG12	1:L:12:THR:HG23	2.02	0.40
2:M:118:ILE:H	2:M:118:ILE:HG13	1.63	0.40
3:N:793:THR:HG22	3:N:879:ARG:HA	2.03	0.40
2:M:742:VAL:CG1	2:M:743:VAL:N	2.83	0.40
3:N:776:GLU:HB3	3:N:912:LYS:HE2	2.03	0.40
3:D:1372:VAL:CG1	3:D:1373:ARG:N	2.84	0.40
3:D:1353:GLN:OE1	3:D:1365:ASP:OD2	2.39	0.40
2:M:424:GLY:N	9:M:1722:HOH:O	2.54	0.40
2:C:491:GLU:HG2	9:C:1297:HOH:O	2.21	0.40
5:F:272:SER:O	5:F:276:ARG:HG3	2.22	0.40
3:N:610:LYS:CG	7:N:1527:MXP:H15A	2.47	0.40
2:C:897:LEU:CD1	2:C:921:ALA:HA	2.51	0.40
1:K:42:ARG:NH1	1:L:34:VAL:HB	2.14	0.40
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.91	0.40
2:C:378:LEU:O	2:C:382:ILE:HG13	2.22	0.40
2:C:54:ILE:HD13	9:C:1578:HOH:O	2.21	0.40
3:N:565:ILE:HD12	5:P:192:LEU:CD1	2.50	0.40
3:N:1384:PRO:C	3:N:1413:THR:HG21	2.42	0.40
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.03	0.40
2:C:166:PRO:HG2	9:C:1175:HOH:O	2.21	0.40
2:C:549:PHE:HE2	2:C:887:GLU:N	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1008:ARG:HD2	2:M:1028:GLY:H	1.85	0.40
3:D:500:ARG:O	3:D:504:ASP:HB2	2.21	0.40
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	2.04	0.40
2:C:686:ASP:N	9:C:1222:HOH:O	2.54	0.40
3:N:1161:GLU:CG	3:N:1164:ARG:HD2	2.52	0.40
3:N:935:LYS:HE2	3:N:935:LYS:HB3	1.94	0.40
5:P:363:GLU:CA	5:P:367:MET:HG3	2.51	0.40
1:A:96:THR:N	9:A:349:HOH:O	2.54	0.40
3:N:1109:GLU:CD	3:N:1202:GLN:HB2	2.42	0.40
5:P:399:GLN:O	5:P:403:LYS:HB2	2.21	0.40
1:A:13:VAL:CG1	1:A:15:THR:HG22	2.49	0.40
2:M:176:VAL:HG23	2:M:176:VAL:O	2.22	0.40
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.21	0.40
1:K:180:GLN:HE21	1:K:180:GLN:HB3	1.65	0.40
2:C:410:ILE:N	2:C:453:THR:O	2.53	0.40
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.21	0.40
2:M:172:ILE:HG22	2:M:173:ASP:N	2.36	0.40
3:D:1305:LEU:HD22	3:D:1309:ALA:CB	2.52	0.40
3:D:97:THR:O	3:D:98:PRO:O	2.40	0.40
3:D:46:ASP:O	3:D:48:ARG:N	2.54	0.40
2:M:443:THR:HG21	2:M:450:GLY:H	1.85	0.40
5:F:280:GLN:O	5:F:280:GLN:HG2	2.22	0.40
3:D:1256:LEU:N	3:D:1257:PRO:CD	2.85	0.40
1:A:95:GLN:HG2	9:A:325:HOH:O	2.21	0.40
3:D:898:GLU:OE2	3:D:921:ARG:NH1	2.54	0.40
3:N:982:PHE:HA	9:N:1762:HOH:O	2.21	0.40
2:C:400:PRO:O	2:C:401:LEU:C	2.58	0.40
3:D:778:LEU:HD11	9:D:1940:HOH:O	2.21	0.40
2:M:284:ARG:HD2	9:M:2219:HOH:O	2.21	0.40
2:C:1059:ASP:CG	2:C:1062:GLY:HA3	2.42	0.40
1:A:42:ARG:HD3	1:B:35:THR:OG1	2.21	0.40
5:P:295:MET:HB3	5:P:299:TRP:CG	2.57	0.40
2:M:890:LEU:HD12	2:M:914:ILE:CD1	2.46	0.40
3:N:153:LEU:HB3	9:N:1717:HOH:O	2.20	0.40
3:N:397:LYS:HE3	3:N:448:GLU:HB3	2.04	0.40
1:L:145:ASP:O	1:L:171:PHE:HE1	2.04	0.40
3:N:489:ARG:HG2	3:N:490:ALA:N	2.37	0.40
3:N:199:LEU:H	3:N:199:LEU:HG	1.60	0.40
2:C:207:LEU:HD13	2:C:221:LEU:HD13	2.03	0.40
3:D:1476:THR:C	3:D:1478:SER:H	2.24	0.40
1:K:20:TYR:HE2	1:K:22:GLU:HG3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1095:THR:O	3:N:1096:ARG:C	2.60	0.40
2:M:351:LEU:HD11	2:M:373:VAL:HG13	2.03	0.40
3:N:447:VAL:HG11	9:N:1573:HOH:O	2.21	0.40
3:D:1209:LEU:HD23	3:D:1211:MET:CG	2.50	0.40
3:D:1364:HIS:ND1	3:D:1366:LYS:HB2	2.36	0.40
5:P:368:VAL:HA	9:P:506:HOH:O	2.21	0.40
5:F:364:ARG:HD3	9:F:425:HOH:O	2.21	0.40
3:D:659:LYS:O	3:D:659:LYS:HG2	2.21	0.40
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.21	0.40
5:F:220:LEU:HB2	5:F:243:ILE:HD11	2.02	0.40
3:N:733:CYS:HG	3:N:740:PHE:HZ	1.66	0.40
2:M:73:LEU:HD23	2:M:94:LEU:HD13	2.04	0.40
3:N:835:SER:O	3:N:837:GLY:N	2.54	0.40
1:K:41:ARG:NH2	2:M:860:HIS:HB3	2.37	0.40
3:N:478:LEU:HD21	3:N:500:ARG:HH21	1.84	0.40
4:O:85:LEU:HD23	4:O:85:LEU:C	2.42	0.40
2:C:1005:MET:HB2	3:D:629:SER:HB2	2.02	0.40
2:M:174:LEU:CD2	2:M:184:MET:HG3	2.52	0.40
2:M:183:SER:HB3	2:M:190:LYS:HD3	2.03	0.40
2:C:1097:LEU:HD12	2:C:1097:LEU:H	1.86	0.40
3:D:99:ALA:HA	3:D:575:GLN:NE2	2.37	0.40
1:A:43:ILE:HG21	1:A:214:ALA:HA	2.04	0.40
1:A:44:LEU:O	1:A:174:VAL:HG21	2.21	0.40
2:C:861:LEU:CD2	2:C:925:TYR:HE2	2.34	0.40
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.22	0.40
3:D:758:GLU:O	3:D:762:GLN:HG3	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%)	200 (88%)	24 (11%)	3 (1%)	15	37
1	B	227/315 (72%)	195 (86%)	29 (13%)	3 (1%)	15	37
1	K	227/315 (72%)	201 (88%)	22 (10%)	4 (2%)	11	27
1	L	227/315 (72%)	199 (88%)	25 (11%)	3 (1%)	15	37
2	C	1117/1119 (100%)	905 (81%)	154 (14%)	58 (5%)	2	4
2	M	1117/1119 (100%)	904 (81%)	153 (14%)	60 (5%)	2	4
3	D	1317/1524 (86%)	1098 (83%)	170 (13%)	49 (4%)	4	9
3	N	1317/1524 (86%)	1089 (83%)	176 (13%)	52 (4%)	4	8
4	E	93/99 (94%)	77 (83%)	12 (13%)	4 (4%)	3	7
4	O	93/99 (94%)	77 (83%)	10 (11%)	6 (6%)	1	2
5	F	341/423 (81%)	285 (84%)	37 (11%)	19 (6%)	2	3
5	P	341/423 (81%)	287 (84%)	36 (11%)	18 (5%)	2	4
All	All	6644/7590 (88%)	5517 (83%)	848 (13%)	279 (4%)	3	7

All (279) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
2	C	7	GLY
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	262	ALA
2	C	290	LEU
2	C	363	SER
2	C	369	PRO
2	C	465	GLY
2	C	517	ARG
2	C	548	PRO
2	C	598	GLU
2	C	627	ARG
2	C	767	PRO
2	C	864	GLY
2	C	908	GLY
2	C	1079	PRO
2	C	1106	ASP
3	D	55	ASP
3	D	82	LYS

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Mol	Chain	Res	Type
3	D	136	ASP
3	D	199	LEU
3	D	610	LYS
3	D	822	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	76	SER
5	F	95	THR
5	F	147	LEU
5	F	232	ARG
5	F	325	LYS
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	7	GLY
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	262	ALA
2	M	290	LEU
2	M	369	PRO
2	M	465	GLY
2	M	548	PRO
2	M	598	GLU
2	M	627	ARG
2	M	767	PRO
2	M	864	GLY
2	M	908	GLY
2	M	1079	PRO
2	M	1106	ASP
3	N	55	ASP
3	N	82	LYS
3	N	136	ASP
3	N	199	LEU
3	N	705	ALA
3	N	822	ALA
3	N	1129	THR
3	N	1208	ASP

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Mol	Chain	Res	Type
3	N	1243	THR
4	O	42	PRO
4	O	58	PRO
5	P	76	SER
5	P	95	THR
5	P	147	LEU
5	P	232	ARG
5	P	325	LYS
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	251	ASP
2	C	282	GLY
2	C	626	ARG
2	C	680	ASP
2	C	738	ASP
2	C	777	ILE
2	C	807	ARG
2	C	809	GLY
2	C	811	PRO
2	C	1004	LYS
3	D	24	GLY
3	D	98	PRO
3	D	137	PRO
3	D	504	ASP
3	D	588	GLY
3	D	616	GLN
3	D	705	ALA
3	D	803	GLY
3	D	1064	GLY
3	D	1196	THR
3	D	1265	ALA
4	E	4	PRO
5	F	153	PRO
5	F	255	ALA
5	F	416	ARG
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY

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Mol	Chain	Res	Type
2	M	251	ASP
2	M	282	GLY
2	M	363	SER
2	M	517	ARG
2	M	626	ARG
2	M	680	ASP
2	M	738	ASP
2	M	777	ILE
2	M	807	ARG
2	M	809	GLY
2	M	811	PRO
2	M	1004	LYS
3	N	24	GLY
3	N	137	PRO
3	N	504	ASP
3	N	588	GLY
3	N	803	GLY
3	N	1064	GLY
3	N	1125	PRO
3	N	1197	ARG
3	N	1265	ALA
3	N	1342	GLU
3	N	1441	GLN
4	O	4	PRO
5	P	153	PRO
5	P	255	ALA
5	P	416	ARG
2	C	40	GLU
2	C	74	GLY
2	C	164	PRO
2	C	727	PRO
2	C	812	GLY
2	C	874	LEU
2	C	911	GLU
3	D	31	THR
3	D	47	GLU
3	D	96	ALA
3	D	119	SER
3	D	592	THR
3	D	594	PRO
3	D	807	ALA
3	D	844	ALA

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Mol	Chain	Res	Type
3	D	1125	PRO
3	D	1197	ARG
3	D	1241	PHE
3	D	1388	ARG
4	E	82	GLU
5	F	167	PRO
5	F	203	THR
5	F	286	PRO
5	F	297	PRO
5	F	341	PRO
5	F	393	THR
2	M	40	GLU
2	M	74	GLY
2	M	164	PRO
2	M	699	PHE
2	M	727	PRO
2	M	911	GLU
2	M	1045	ALA
3	N	31	THR
3	N	96	ALA
3	N	98	PRO
3	N	119	SER
3	N	592	THR
3	N	594	PRO
3	N	807	ALA
3	N	844	ALA
3	N	1111	ASP
3	N	1196	THR
3	N	1241	PHE
3	N	1388	ARG
4	O	82	GLU
5	P	167	PRO
5	P	203	THR
5	P	286	PRO
5	P	297	PRO
5	P	364	ARG
5	P	393	THR
1	A	26	GLU
2	C	111	ASP
2	C	170	PRO
2	C	250	ARG
2	C	699	PHE

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Mol	Chain	Res	Type
2	C	1045	ALA
3	D	484	PRO
3	D	1111	ASP
3	D	1432	LYS
5	F	421	PHE
2	M	111	ASP
2	M	170	PRO
2	M	188	LYS
2	M	250	ARG
2	M	268	ASP
2	M	812	GLY
3	N	484	PRO
3	N	526	PRO
3	N	617	ASN
3	N	892	ASP
3	N	1066	THR
3	N	1341	PRO
3	N	1432	LYS
5	P	421	PHE
2	C	53	PRO
2	C	188	LYS
2	C	268	ASP
2	C	400	PRO
2	C	1113	GLU
3	D	173	PRO
3	D	483	HIS
3	D	522	PRO
3	D	530	VAL
3	D	533	GLY
3	D	808	THR
3	D	892	ASP
3	D	1306	PRO
5	F	138	SER
1	K	26	GLU
2	M	10	ARG
2	M	53	PRO
2	M	90	TYR
2	M	292	ARG
2	M	984	GLU
2	M	1113	GLU
3	N	47	GLU
3	N	173	PRO

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Mol	Chain	Res	Type
3	N	483	HIS
3	N	522	PRO
3	N	766	ALA
3	N	808	THR
3	N	1306	PRO
5	P	341	PRO
2	C	10	ARG
2	C	90	TYR
2	C	180	GLY
2	C	377	PRO
2	C	1059	ASP
5	F	293	GLU
5	F	375	LEU
2	M	180	GLY
2	M	377	PRO
2	M	874	LEU
2	M	1005	MET
3	N	530	VAL
3	N	787	LEU
5	P	138	SER
2	C	336	VAL
3	D	526	PRO
3	D	1385	GLY
3	N	1385	GLY
2	C	264	PRO
2	C	415	PRO
1	K	9	PRO
2	M	261	ILE
2	M	336	VAL
2	M	415	PRO
2	M	505	GLY
3	N	1248	GLY
2	C	261	ILE
2	C	505	GLY
3	D	1248	GLY
1	L	9	PRO
2	M	264	PRO
2	M	529	VAL
3	N	1349	VAL
2	C	450	GLY
3	D	108	VAL
3	D	1267	ARG

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Mol	Chain	Res	Type
2	M	905	ILE
3	N	108	VAL
4	O	5	GLY
4	O	57	ASP
1	B	9	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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%)	161 (80%)	41 (20%)	1 4
1	B	202/273 (74%)	163 (81%)	39 (19%)	2 4
1	K	202/273 (74%)	159 (79%)	43 (21%)	1 3
1	L	202/273 (74%)	166 (82%)	36 (18%)	2 5
2	C	941/941 (100%)	755 (80%)	186 (20%)	1 4
2	M	941/941 (100%)	757 (80%)	184 (20%)	1 4
3	D	1112/1279 (87%)	935 (84%)	177 (16%)	3 8
3	N	1112/1279 (87%)	934 (84%)	178 (16%)	3 8
4	E	84/88 (96%)	68 (81%)	16 (19%)	2 5
4	O	84/88 (96%)	68 (81%)	16 (19%)	2 5
5	F	295/370 (80%)	252 (85%)	43 (15%)	4 9
5	P	295/370 (80%)	254 (86%)	41 (14%)	4 10
All	All	5672/6448 (88%)	4672 (82%)	1000 (18%)	2 6

All (1000) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	16	GLN

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Mol	Chain	Res	Type
1	A	20	TYR
1	A	44	LEU
1	A	45	LEU
1	A	47	SER
1	A	67	THR
1	A	73	GLU
1	A	74	ASP
1	A	77	GLU
1	A	84	GLU
1	A	88	ARG
1	A	89	PHE
1	A	92	PRO
1	A	96	THR
1	A	101	LEU
1	A	115	LEU
1	A	120	VAL
1	A	121	GLU
1	A	127	LEU
1	A	133	GLU
1	A	142	VAL
1	A	145	ASP
1	A	154	GLU
1	A	167	VAL
1	A	170	VAL
1	A	180	GLN
1	A	184	THR
1	A	190	THR
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	223	THR
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	3	ASP
1	B	25	LEU
1	B	26	GLU
1	B	27	PRO
1	B	38	ASN

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Mol	Chain	Res	Type
1	B	47	SER
1	B	62	LEU
1	B	67	THR
1	B	69	PRO
1	B	73	GLU
1	B	74	ASP
1	B	77	GLU
1	B	82	LEU
1	B	89	PHE
1	B	96	THR
1	B	112	ARG
1	B	119	ASP
1	B	123	MET
1	B	124	ASN
1	B	126	ASP
1	B	137	ARG
1	B	140	MET
1	B	154	GLU
1	B	162	ILE
1	B	170	VAL
1	B	184	THR
1	B	188	GLN
1	B	190	THR
1	B	192	LEU
1	B	196	THR
1	B	197	LEU
1	B	200	TRP
1	B	206	THR
1	B	208	LEU
1	B	209	GLU
1	B	213	GLN
1	B	220	GLU
1	B	227	ASN
2	C	6	PHE
2	C	11	GLU
2	C	15	LEU
2	C	24	GLU
2	C	26	TYR
2	C	30	LEU
2	C	34	VAL
2	C	35	PRO
2	C	36	PRO

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Mol	Chain	Res	Type
2	C	37	GLU
2	C	41	ASN
2	C	44	ILE
2	C	48	PHE
2	C	52	PHE
2	C	58	ASP
2	C	73	LEU
2	C	81	ASP
2	C	89	THR
2	C	94	LEU
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	104	ASP
2	C	108	ILE
2	C	112	GLU
2	C	114	PHE
2	C	115	LEU
2	C	117	HIS
2	C	129	ILE
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	149	THR
2	C	151	ASP
2	C	158	TYR
2	C	163	ILE
2	C	178	PRO
2	C	182	VAL
2	C	186	VAL
2	C	194	VAL
2	C	196	LEU
2	C	205	GLU
2	C	209	ARG
2	C	221	LEU
2	C	223	ASP
2	C	229	MET
2	C	238	LEU
2	C	239	PHE
2	C	241	LEU
2	C	254	VAL
2	C	257	VAL

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Mol	Chain	Res	Type
2	C	260	LEU
2	C	264	PRO
2	C	267	TYR
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	286	SER
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	309	TYR
2	C	321	GLU
2	C	332	ARG
2	C	339	LEU
2	C	343	GLN
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	366	SER
2	C	367	LEU
2	C	392	SER
2	C	393	GLN
2	C	394	PHE
2	C	396	ASP
2	C	398	THR
2	C	402	SER
2	C	413	LEU
2	C	415	PRO
2	C	420	ARG
2	C	425	PHE
2	C	426	ASP
2	C	427	VAL
2	C	443	THR
2	C	448	ASN
2	C	451	LEU
2	C	452	ILE
2	C	454	SER
2	C	463	GLU
2	C	469	THR
2	C	479	VAL
2	C	486	MET

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Mol	Chain	Res	Type
2	C	508	ILE
2	C	516	ARG
2	C	528	GLU
2	C	533	ASP
2	C	542	VAL
2	C	543	ASN
2	C	557	ARG
2	C	559	LEU
2	C	564	MET
2	C	566	THR
2	C	578	VAL
2	C	583	LEU
2	C	584	GLU
2	C	605	LYS
2	C	607	ASP
2	C	614	ARG
2	C	619	ARG
2	C	633	GLN
2	C	645	VAL
2	C	657	ASP
2	C	661	SER
2	C	663	ASN
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	674	VAL
2	C	679	PHE
2	C	685	GLU
2	C	690	ILE
2	C	693	GLU
2	C	698	ASP
2	C	699	PHE
2	C	701	THR
2	C	725	ASP
2	C	727	PRO
2	C	729	LEU
2	C	734	LEU
2	C	737	LEU
2	C	758	ARG
2	C	760	SER
2	C	765	SER
2	C	769	PRO

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Mol	Chain	Res	Type
2	C	775	ARG
2	C	780	GLU
2	C	785	VAL
2	C	799	ILE
2	C	821	GLU
2	C	839	LEU
2	C	841	ASN
2	C	853	LEU
2	C	861	LEU
2	C	862	PRO
2	C	863	ASP
2	C	868	ASP
2	C	870	ILE
2	C	881	ASN
2	C	890	LEU
2	C	901	TYR
2	C	904	PRO
2	C	905	ILE
2	C	907	ASP
2	C	916	GLU
2	C	923	GLU
2	C	925	TYR
2	C	937	ASP
2	C	950	LEU
2	C	953	VAL
2	C	959	PRO
2	C	971	LYS
2	C	981	GLU
2	C	984	GLU
2	C	995	MET
2	C	1002	GLU
2	C	1016	ILE
2	C	1017	THR
2	C	1018	GLN
2	C	1030	GLN
2	C	1034	GLU
2	C	1035	MET
2	C	1036	GLU
2	C	1054	THR
2	C	1060	ILE
2	C	1079	PRO
2	C	1087	VAL

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Mol	Chain	Res	Type
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
2	C	1100	GLN
2	C	1109	VAL
2	C	1110	ASP
2	C	1117	SER
2	C	1118	LYS
2	C	1119	ARG
3	D	12	LEU
3	D	14	SER
3	D	15	PRO
3	D	32	ILE
3	D	40	GLU
3	D	56	TYR
3	D	80	VAL
3	D	85	VAL
3	D	101	HIS
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	116	LEU
3	D	117	ASP
3	D	128	TYR
3	D	133	ILE
3	D	135	LEU
3	D	136	ASP
3	D	141	ILE
3	D	145	VAL
3	D	153	LEU
3	D	155	ASP
3	D	160	GLU
3	D	166	GLN
3	D	171	LEU
3	D	187	LYS
3	D	189	GLN
3	D	190	GLU
3	D	197	SER
3	D	205	TYR
3	D	394	LEU
3	D	400	VAL
3	D	402	PRO

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Mol	Chain	Res	Type
3	D	405	ASP
3	D	406	ASP
3	D	438	ASP
3	D	456	MET
3	D	465	LEU
3	D	489	ARG
3	D	493	ARG
3	D	504	ASP
3	D	505	SER
3	D	508	ARG
3	D	521	PRO
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	573	MET
3	D	581	LEU
3	D	591	VAL
3	D	594	PRO
3	D	605	ASP
3	D	608	SER
3	D	615	ARG
3	D	617	ASN
3	D	619	LEU
3	D	624	ASP
3	D	625	TYR
3	D	636	GLN
3	D	641	GLN
3	D	660	LYS
3	D	695	ILE
3	D	704	ARG
3	D	719	VAL
3	D	724	GLN
3	D	726	ILE
3	D	736	PHE
3	D	739	ASP
3	D	741	ASP
3	D	749	VAL
3	D	754	PHE
3	D	756	GLN
3	D	781	PRO
3	D	783	ARG
3	D	792	ILE

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Mol	Chain	Res	Type
3	D	810	GLU
3	D	824	ASN
3	D	832	ARG
3	D	839	LEU
3	D	845	ASN
3	D	847	ASP
3	D	861	GLN
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	868	TYR
3	D	876	SER
3	D	880	ILE
3	D	888	GLU
3	D	892	ASP
3	D	899	LEU
3	D	901	GLN
3	D	914	LEU
3	D	915	VAL
3	D	942	SER
3	D	944	THR
3	D	948	THR
3	D	951	ILE
3	D	958	GLU
3	D	959	GLU
3	D	968	ASP
3	D	972	LEU
3	D	975	GLU
3	D	984	THR
3	D	985	ASP
3	D	999	THR
3	D	1001	GLU
3	D	1003	VAL
3	D	1023	MET
3	D	1025	GLN
3	D	1032	PRO
3	D	1033	GLN
3	D	1038	LEU
3	D	1041	LEU
3	D	1051	GLU
3	D	1052	THR
3	D	1065	LEU

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Mol	Chain	Res	Type
3	D	1068	LEU
3	D	1074	SER
3	D	1083	ASP
3	D	1090	ASP
3	D	1093	TYR
3	D	1095	THR
3	D	1109	GLU
3	D	1111	ASP
3	D	1112	CYS
3	D	1115	THR
3	D	1116	ASN
3	D	1129	THR
3	D	1132	LEU
3	D	1134	LEU
3	D	1151	ARG
3	D	1166	LEU
3	D	1173	LEU
3	D	1183	ILE
3	D	1198	TYR
3	D	1207	TYR
3	D	1228	SER
3	D	1234	THR
3	D	1243	THR
3	D	1251	ASP
3	D	1252	ILE
3	D	1258	ARG
3	D	1260	ILE
3	D	1274	ILE
3	D	1280	VAL
3	D	1290	LEU
3	D	1299	PHE
3	D	1302	GLU
3	D	1305	LEU
3	D	1315	ASP
3	D	1320	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1348	LEU
3	D	1359	GLN
3	D	1363	LEU
3	D	1382	THR
3	D	1383	ASP

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Mol	Chain	Res	Type
3	D	1387	SER
3	D	1407	LEU
3	D	1415	VAL
3	D	1420	LEU
3	D	1431	THR
3	D	1433	SER
3	D	1439	SER
3	D	1440	PHE
3	D	1441	GLN
3	D	1460	ILE
3	D	1465	ASN
3	D	1466	VAL
3	D	1468	LEU
3	D	1478	SER
3	D	1485	GLN
3	D	1488	ASP
3	D	1491	THR
3	D	1496	GLU
4	E	4	PRO
4	E	20	THR
4	E	30	LEU
4	E	41	GLU
4	E	42	PRO
4	E	43	GLU
4	E	46	PRO
4	E	51	LEU
4	E	56	ASP
4	E	57	ASP
4	E	62	THR
4	E	67	GLU
4	E	72	ARG
4	E	79	LEU
4	E	81	PRO
4	E	94	PRO
5	F	79	ASP
5	F	83	GLN
5	F	84	TYR
5	F	86	HIS
5	F	91	VAL
5	F	94	LEU
5	F	117	SER
5	F	122	LEU

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Mol	Chain	Res	Type
5	F	123	ASP
5	F	125	ASP
5	F	127	ILE
5	F	135	ILE
5	F	145	PRO
5	F	149	GLU
5	F	150	THR
5	F	169	GLU
5	F	174	LEU
5	F	178	ARG
5	F	192	LEU
5	F	194	LEU
5	F	225	GLU
5	F	240	THR
5	F	245	GLN
5	F	249	ARG
5	F	262	VAL
5	F	281	GLU
5	F	282	LEU
5	F	291	ILE
5	F	297	PRO
5	F	317	LEU
5	F	335	ASP
5	F	336	GLU
5	F	341	PRO
5	F	348	SER
5	F	351	SER
5	F	353	GLU
5	F	362	SER
5	F	372	ARG
5	F	393	THR
5	F	399	GLN
5	F	408	LEU
5	F	410	TYR
5	F	420	ASP
1	K	3	ASP
1	K	9	PRO
1	K	12	THR
1	K	15	THR
1	K	16	GLN
1	K	20	TYR
1	K	44	LEU

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Mol	Chain	Res	Type
1	K	45	LEU
1	K	47	SER
1	K	67	THR
1	K	73	GLU
1	K	74	ASP
1	K	80	LEU
1	K	82	LEU
1	K	84	GLU
1	K	86	VAL
1	K	88	ARG
1	K	89	PHE
1	K	92	PRO
1	K	96	THR
1	K	101	LEU
1	K	115	LEU
1	K	120	VAL
1	K	121	GLU
1	K	127	LEU
1	K	133	GLU
1	K	142	VAL
1	K	154	GLU
1	K	167	VAL
1	K	170	VAL
1	K	180	GLN
1	K	184	THR
1	K	190	THR
1	K	196	THR
1	K	197	LEU
1	K	198	ARG
1	K	206	THR
1	K	211	LEU
1	K	216	GLU
1	K	222	LEU
1	K	223	THR
1	K	227	ASN
1	K	229	GLN
1	L	1	MET
1	L	9	PRO
1	L	25	LEU
1	L	26	GLU
1	L	27	PRO
1	L	38	ASN

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Mol	Chain	Res	Type
1	L	62	LEU
1	L	67	THR
1	L	69	PRO
1	L	73	GLU
1	L	74	ASP
1	L	77	GLU
1	L	89	PHE
1	L	96	THR
1	L	112	ARG
1	L	119	ASP
1	L	124	ASN
1	L	126	ASP
1	L	137	ARG
1	L	140	MET
1	L	154	GLU
1	L	162	ILE
1	L	173	PRO
1	L	184	THR
1	L	188	GLN
1	L	190	THR
1	L	192	LEU
1	L	193	ASP
1	L	196	THR
1	L	197	LEU
1	L	200	TRP
1	L	206	THR
1	L	207	PRO
1	L	208	LEU
1	L	209	GLU
1	L	227	ASN
2	M	11	GLU
2	M	24	GLU
2	M	26	TYR
2	M	30	LEU
2	M	34	VAL
2	M	35	PRO
2	M	37	GLU
2	M	41	ASN
2	M	44	ILE
2	M	48	PHE
2	M	52	PHE
2	M	73	LEU

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Mol	Chain	Res	Type
2	M	79	PRO
2	M	81	ASP
2	M	89	THR
2	M	94	LEU
2	M	95	TYR
2	M	98	LEU
2	M	100	LEU
2	M	104	ASP
2	M	108	ILE
2	M	112	GLU
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	133	ASP
2	M	140	ILE
2	M	141	HIS
2	M	149	THR
2	M	150	PRO
2	M	151	ASP
2	M	158	TYR
2	M	163	ILE
2	M	182	VAL
2	M	186	VAL
2	M	191	PHE
2	M	194	VAL
2	M	205	GLU
2	M	209	ARG
2	M	219	GLN
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	235	LEU
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU
2	M	254	VAL
2	M	256	TYR
2	M	257	VAL
2	M	260	LEU
2	M	264	PRO
2	M	267	TYR
2	M	275	TYR

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Mol	Chain	Res	Type
2	M	279	GLU
2	M	281	LEU
2	M	285	LEU
2	M	286	SER
2	M	290	LEU
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	321	GLU
2	M	332	ARG
2	M	339	LEU
2	M	343	GLN
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	366	SER
2	M	367	LEU
2	M	384	GLU
2	M	392	SER
2	M	393	GLN
2	M	394	PHE
2	M	396	ASP
2	M	402	SER
2	M	413	LEU
2	M	415	PRO
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	427	VAL
2	M	443	THR
2	M	448	ASN
2	M	451	LEU
2	M	452	ILE
2	M	454	SER
2	M	463	GLU
2	M	469	THR
2	M	474	VAL
2	M	479	VAL
2	M	502	PRO
2	M	508	ILE
2	M	516	ARG

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Mol	Chain	Res	Type
2	M	524	VAL
2	M	527	GLU
2	M	528	GLU
2	M	533	ASP
2	M	537	LYS
2	M	542	VAL
2	M	543	ASN
2	M	559	LEU
2	M	564	MET
2	M	566	THR
2	M	583	LEU
2	M	588	VAL
2	M	605	LYS
2	M	607	ASP
2	M	614	ARG
2	M	619	ARG
2	M	633	GLN
2	M	645	VAL
2	M	657	ASP
2	M	661	SER
2	M	663	ASN
2	M	668	LEU
2	M	671	ASN
2	M	672	VAL
2	M	674	VAL
2	M	679	PHE
2	M	684	PHE
2	M	690	ILE
2	M	693	GLU
2	M	697	ARG
2	M	698	ASP
2	M	699	PHE
2	M	701	THR
2	M	725	ASP
2	M	727	PRO
2	M	729	LEU
2	M	734	LEU
2	M	737	LEU
2	M	758	ARG
2	M	760	SER
2	M	765	SER
2	M	775	ARG

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Mol	Chain	Res	Type
2	M	785	VAL
2	M	794	PRO
2	M	799	ILE
2	M	821	GLU
2	M	822	VAL
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	861	LEU
2	M	862	PRO
2	M	863	ASP
2	M	870	ILE
2	M	881	ASN
2	M	890	LEU
2	M	901	TYR
2	M	904	PRO
2	M	905	ILE
2	M	907	ASP
2	M	916	GLU
2	M	917	LEU
2	M	923	GLU
2	M	937	ASP
2	M	950	LEU
2	M	953	VAL
2	M	959	PRO
2	M	981	GLU
2	M	984	GLU
2	M	995	MET
2	M	1002	GLU
2	M	1016	ILE
2	M	1017	THR
2	M	1018	GLN
2	M	1030	GLN
2	M	1035	MET
2	M	1036	GLU
2	M	1054	THR
2	M	1060	ILE
2	M	1075	ASP
2	M	1079	PRO
2	M	1087	VAL
2	M	1092	LEU
2	M	1098	ASP

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Mol	Chain	Res	Type
2	M	1109	VAL
2	M	1110	ASP
2	M	1117	SER
2	M	1118	LYS
3	N	3	LYS
3	N	12	LEU
3	N	14	SER
3	N	15	PRO
3	N	20	SER
3	N	32	ILE
3	N	40	GLU
3	N	80	VAL
3	N	82	LYS
3	N	85	VAL
3	N	102	ILE
3	N	115	LEU
3	N	116	LEU
3	N	117	ASP
3	N	128	TYR
3	N	133	ILE
3	N	135	LEU
3	N	136	ASP
3	N	141	ILE
3	N	145	VAL
3	N	153	LEU
3	N	155	ASP
3	N	160	GLU
3	N	166	GLN
3	N	171	LEU
3	N	181	ASP
3	N	187	LYS
3	N	189	GLN
3	N	190	GLU
3	N	193	PRO
3	N	197	SER
3	N	205	TYR
3	N	394	LEU
3	N	400	VAL
3	N	402	PRO
3	N	405	ASP
3	N	406	ASP
3	N	431	VAL

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Mol	Chain	Res	Type
3	N	438	ASP
3	N	449	SER
3	N	456	MET
3	N	461	ILE
3	N	465	LEU
3	N	489	ARG
3	N	493	ARG
3	N	504	ASP
3	N	505	SER
3	N	521	PRO
3	N	565	ILE
3	N	569	ASN
3	N	581	LEU
3	N	590	PRO
3	N	591	VAL
3	N	594	PRO
3	N	605	ASP
3	N	614	PHE
3	N	615	ARG
3	N	617	ASN
3	N	619	LEU
3	N	624	ASP
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	642	CYS
3	N	660	LYS
3	N	682	ASP
3	N	688	TRP
3	N	704	ARG
3	N	719	VAL
3	N	724	GLN
3	N	726	ILE
3	N	736	PHE
3	N	739	ASP
3	N	741	ASP
3	N	749	VAL
3	N	754	PHE
3	N	781	PRO
3	N	783	ARG
3	N	792	ILE
3	N	810	GLU

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Mol	Chain	Res	Type
3	N	824	ASN
3	N	832	ARG
3	N	839	LEU
3	N	847	ASP
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	880	ILE
3	N	888	GLU
3	N	892	ASP
3	N	899	LEU
3	N	901	GLN
3	N	910	SER
3	N	915	VAL
3	N	942	SER
3	N	944	THR
3	N	948	THR
3	N	951	ILE
3	N	958	GLU
3	N	959	GLU
3	N	968	ASP
3	N	972	LEU
3	N	975	GLU
3	N	985	ASP
3	N	1001	GLU
3	N	1003	VAL
3	N	1023	MET
3	N	1025	GLN
3	N	1032	PRO
3	N	1033	GLN
3	N	1038	LEU
3	N	1041	LEU
3	N	1051	GLU
3	N	1052	THR
3	N	1065	LEU
3	N	1068	LEU
3	N	1083	ASP
3	N	1090	ASP
3	N	1095	THR
3	N	1109	GLU
3	N	1112	CYS
3	N	1115	THR

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Mol	Chain	Res	Type
3	N	1116	ASN
3	N	1129	THR
3	N	1133	ARG
3	N	1134	LEU
3	N	1151	ARG
3	N	1166	LEU
3	N	1173	LEU
3	N	1183	ILE
3	N	1198	TYR
3	N	1207	TYR
3	N	1210	SER
3	N	1228	SER
3	N	1243	THR
3	N	1251	ASP
3	N	1252	ILE
3	N	1258	ARG
3	N	1260	ILE
3	N	1274	ILE
3	N	1280	VAL
3	N	1290	LEU
3	N	1299	PHE
3	N	1300	SER
3	N	1302	GLU
3	N	1305	LEU
3	N	1306	PRO
3	N	1311	LEU
3	N	1315	ASP
3	N	1320	GLU
3	N	1344	VAL
3	N	1345	GLU
3	N	1348	LEU
3	N	1350	GLU
3	N	1363	LEU
3	N	1382	THR
3	N	1383	ASP
3	N	1403	LEU
3	N	1407	LEU
3	N	1415	VAL
3	N	1419	PRO
3	N	1420	LEU
3	N	1424	VAL
3	N	1431	THR

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Mol	Chain	Res	Type
3	N	1433	SER
3	N	1440	PHE
3	N	1441	GLN
3	N	1460	ILE
3	N	1462	LEU
3	N	1465	ASN
3	N	1466	VAL
3	N	1468	LEU
3	N	1478	SER
3	N	1481	VAL
3	N	1485	GLN
3	N	1488	ASP
3	N	1491	THR
3	N	1496	GLU
4	O	4	PRO
4	O	15	SER
4	O	20	THR
4	O	30	LEU
4	O	41	GLU
4	O	42	PRO
4	O	43	GLU
4	O	46	PRO
4	O	51	LEU
4	O	56	ASP
4	O	57	ASP
4	O	62	THR
4	O	67	GLU
4	O	79	LEU
4	O	81	PRO
4	O	94	PRO
5	P	80	PRO
5	P	83	GLN
5	P	84	TYR
5	P	86	HIS
5	P	91	VAL
5	P	94	LEU
5	P	117	SER
5	P	122	LEU
5	P	123	ASP
5	P	125	ASP
5	P	127	ILE
5	P	135	ILE

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Mol	Chain	Res	Type
5	P	149	GLU
5	P	174	LEU
5	P	178	ARG
5	P	194	LEU
5	P	225	GLU
5	P	240	THR
5	P	245	GLN
5	P	249	ARG
5	P	259	ARG
5	P	261	PRO
5	P	262	VAL
5	P	281	GLU
5	P	282	LEU
5	P	297	PRO
5	P	317	LEU
5	P	335	ASP
5	P	336	GLU
5	P	338	LEU
5	P	341	PRO
5	P	342	VAL
5	P	348	SER
5	P	350	LEU
5	P	351	SER
5	P	353	GLU
5	P	362	SER
5	P	393	THR
5	P	408	LEU
5	P	410	TYR
5	P	420	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (159) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	63	HIS
1	A	81	ASN
1	A	124	ASN
1	A	139	ASN
1	A	156	HIS
1	A	180	GLN
1	A	221	HIS
1	A	227	ASN

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Mol	Chain	Res	Type
1	A	229	GLN
1	B	38	ASN
1	B	95	GLN
1	B	124	ASN
1	B	128	HIS
1	B	163	ASN
1	B	180	GLN
1	B	227	ASN
2	C	31	GLN
2	C	41	ASN
2	C	117	HIS
2	C	130	ASN
2	C	139	GLN
2	C	204	GLN
2	C	343	GLN
2	C	393	GLN
2	C	431	HIS
2	C	434	HIS
2	C	498	GLN
2	C	609	ASN
2	C	632	ASN
2	C	639	GLN
2	C	663	ASN
2	C	670	GLN
2	C	671	ASN
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	889	HIS
2	C	899	GLN
2	C	969	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	66	GLN
3	D	143	ASN
3	D	151	GLN
3	D	166	GLN
3	D	507	ASN
3	D	549	ASN
3	D	611	GLN

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Mol	Chain	Res	Type
3	D	727	GLN
3	D	756	GLN
3	D	816	HIS
3	D	824	ASN
3	D	861	GLN
3	D	1005	GLN
3	D	1025	GLN
3	D	1116	ASN
3	D	1195	GLN
3	D	1202	GLN
3	D	1323	GLN
3	D	1441	GLN
3	D	1465	ASN
3	D	1485	GLN
4	E	28	GLN
4	E	29	GLN
4	E	37	ASN
4	E	59	ASN
4	E	86	GLN
5	F	83	GLN
5	F	86	HIS
5	F	90	GLN
5	F	245	GLN
5	F	312	GLN
5	F	337	HIS
5	F	402	ASN
1	K	63	HIS
1	K	124	ASN
1	K	128	HIS
1	K	139	ASN
1	K	156	HIS
1	K	163	ASN
1	K	180	GLN
1	K	227	ASN
1	K	229	GLN
1	L	38	ASN
1	L	95	GLN
1	L	124	ASN
1	L	128	HIS
1	L	163	ASN
1	L	180	GLN
1	L	227	ASN

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Mol	Chain	Res	Type
2	M	22	GLN
2	M	31	GLN
2	M	41	ASN
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	204	GLN
2	M	343	GLN
2	M	374	ASN
2	M	393	GLN
2	M	431	HIS
2	M	434	HIS
2	M	498	GLN
2	M	609	ASN
2	M	632	ASN
2	M	639	GLN
2	M	663	ASN
2	M	670	GLN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	881	ASN
2	M	889	HIS
2	M	969	GLN
2	M	1019	GLN
2	M	1100	GLN
3	N	143	ASN
3	N	151	GLN
3	N	166	GLN
3	N	507	ASN
3	N	549	ASN
3	N	611	GLN
3	N	640	HIS
3	N	696	HIS
3	N	703	ASN
3	N	709	HIS
3	N	727	GLN
3	N	744	GLN
3	N	756	GLN
3	N	768	ASN
3	N	824	ASN
3	N	861	GLN

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Mol	Chain	Res	Type
3	N	994	GLN
3	N	1025	GLN
3	N	1046	GLN
3	N	1116	ASN
3	N	1195	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1359	GLN
3	N	1404	ASN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	29	GLN
4	O	37	ASN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	86	HIS
5	P	90	GLN
5	P	214	GLN
5	P	312	GLN
5	P	402	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

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	$\#\|Z\| > 2$
7	MXP	D	1527	-	26,30,30	2.82	11 (42%)	27,38,38	2.80	8 (29%)
7	MXP	N	1527	-	26,30,30	3.08	12 (46%)	27,38,38	3.01	11 (40%)

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
7	MXP	D	1527	-	-	0/25/28/28	0/1/1/1
7	MXP	N	1527	-	-	0/25/28/28	0/1/1/1

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	N	1527	MXP	O5-C22	-5.06	1.27	1.34
7	D	1527	MXP	O5-C22	-4.22	1.28	1.34
7	D	1527	MXP	O5-C23	-2.92	1.38	1.45
7	N	1527	MXP	O5-C23	-2.54	1.39	1.45
7	N	1527	MXP	C21-N1	-2.07	1.34	1.40
7	D	1527	MXP	C7-C6	2.15	1.53	1.47
7	D	1527	MXP	C8-C7	2.28	1.42	1.34
7	D	1527	MXP	C17-C5	2.59	1.54	1.50
7	N	1527	MXP	C8-C7	2.61	1.43	1.34
7	N	1527	MXP	C7-C6	2.82	1.55	1.47
7	N	1527	MXP	O6-C22	3.33	1.28	1.21
7	N	1527	MXP	O2-C2	3.43	1.43	1.36
7	D	1527	MXP	C1-C5	3.63	1.41	1.35
7	N	1527	MXP	C9-C8	3.85	1.56	1.42
7	D	1527	MXP	C9-C8	3.93	1.56	1.42
7	D	1527	MXP	O6-C22	4.04	1.29	1.21
7	N	1527	MXP	C3-C6	4.35	1.58	1.50
7	D	1527	MXP	C3-C6	4.75	1.59	1.50
7	D	1527	MXP	C9-C10	6.00	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	N	1527	MXP	C1-C5	6.30	1.45	1.35
7	N	1527	MXP	O1-C5	6.79	1.43	1.35
7	D	1527	MXP	O1-C5	6.79	1.43	1.35
7	N	1527	MXP	C9-C10	6.84	1.41	1.34

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	N	1527	MXP	C9-C8-C7	-7.59	113.82	126.22
7	D	1527	MXP	C9-C8-C7	-6.82	115.06	126.22
7	D	1527	MXP	C8-C9-C10	-6.14	116.93	126.19
7	N	1527	MXP	C8-C9-C10	-5.95	117.22	126.19
7	N	1527	MXP	C19-C20-C21	-3.89	112.12	125.06
7	N	1527	MXP	O6-C22-N1	-3.88	120.10	125.46
7	D	1527	MXP	O6-C22-N1	-3.75	120.27	125.46
7	D	1527	MXP	C19-C20-C21	-3.64	112.93	125.06
7	N	1527	MXP	O2-C2-C3	-3.35	118.35	121.84
7	N	1527	MXP	O1-C5-C1	-2.85	117.16	119.72
7	N	1527	MXP	O4-C6-C3	-2.46	113.92	120.41
7	D	1527	MXP	O4-C6-C3	-2.41	114.06	120.41
7	N	1527	MXP	C17-C5-C1	2.31	124.37	121.13
7	N	1527	MXP	C12-C11-C10	3.16	119.42	112.48
7	D	1527	MXP	C12-C11-C10	3.18	119.46	112.48
7	N	1527	MXP	C23-O5-C22	5.66	122.63	115.63
7	D	1527	MXP	C23-O5-C22	5.85	122.86	115.63
7	D	1527	MXP	O5-C22-N1	6.05	114.59	109.06
7	N	1527	MXP	O5-C22-N1	6.54	115.04	109.06

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	D	1527	MXP	18	0
7	N	1527	MXP	18	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 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, 95^{th} 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%)	-0.08	6 (2%)	59	59	28, 50, 78, 101	0
1	B	229/315 (72%)	0.27	19 (8%)	14	11	36, 71, 86, 104	0
1	K	229/315 (72%)	-0.09	6 (2%)	59	59	25, 52, 81, 93	0
1	L	229/315 (72%)	0.30	16 (6%)	19	17	47, 73, 86, 104	0
2	C	1119/1119 (100%)	0.14	52 (4%)	36	35	14, 62, 88, 96	0
2	M	1119/1119 (100%)	0.10	46 (4%)	41	41	11, 60, 86, 101	0
3	D	1321/1524 (86%)	0.14	62 (4%)	35	34	10, 53, 85, 107	0
3	N	1321/1524 (86%)	0.12	61 (4%)	36	35	11, 54, 85, 109	0
4	E	95/99 (95%)	0.18	8 (8%)	14	11	30, 64, 90, 95	0
4	O	95/99 (95%)	0.07	4 (4%)	40	39	29, 61, 83, 100	0
5	F	345/423 (81%)	0.27	29 (8%)	14	11	27, 68, 89, 100	0
5	P	345/423 (81%)	0.29	27 (7%)	16	14	23, 68, 91, 103	0
All	All	6676/7590 (87%)	0.14	336 (5%)	32	31	10, 59, 87, 109	0

All (336) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	1241	PHE	9.5
3	N	1240	THR	8.2
3	N	1243	THR	7.5
3	D	1240	THR	7.3
1	B	6	LEU	6.1
4	E	95	VAL	6.1
1	L	1	MET	6.0
3	N	1247	ALA	5.8
3	D	1248	GLY	5.7
4	O	95	VAL	5.6
3	N	802	ALA	5.6

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Mol	Chain	Res	Type	RSRZ
1	A	1	MET	5.3
3	D	1247	ALA	5.2
3	N	1248	GLY	5.2
3	D	1245	GLY	5.2
3	D	407	VAL	5.1
3	D	1243	THR	5.1
1	L	2	LEU	5.1
3	D	1246	VAL	5.1
3	N	1241	PHE	5.0
2	M	372	LEU	4.9
2	M	105	THR	4.9
2	C	186	VAL	4.8
3	N	1246	VAL	4.8
1	B	1	MET	4.8
2	C	226	VAL	4.8
3	N	1238	MET	4.8
4	E	56	ASP	4.8
3	D	1242	HIS	4.7
1	B	2	LEU	4.6
2	M	615	TYR	4.6
3	N	191	LEU	4.6
3	D	422	ALA	4.6
5	P	90	GLN	4.6
3	D	801	GLY	4.5
2	C	475	VAL	4.5
2	C	207	LEU	4.5
1	K	1	MET	4.5
3	N	816	HIS	4.4
2	M	186	VAL	4.4
1	K	6	LEU	4.4
3	D	802	ALA	4.3
2	M	269	LEU	4.3
1	K	5	LYS	4.3
3	N	1242	HIS	4.2
3	D	1398	TRP	4.2
2	C	615	TYR	4.2
1	B	117	VAL	4.1
1	L	131	THR	4.1
2	M	417	GLY	4.1
4	O	94	PRO	4.0
2	C	65	VAL	4.0
5	P	357	ALA	4.0

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Mol	Chain	Res	Type	RSRZ
2	M	181	VAL	4.0
1	L	6	LEU	4.0
1	A	93	SER	3.9
3	D	1407	LEU	3.9
2	C	479	VAL	3.9
2	C	372	LEU	3.9
5	F	397	ILE	3.9
3	N	203	ALA	3.9
3	D	808	THR	3.9
5	F	150	THR	3.8
1	L	3	ASP	3.8
2	C	260	LEU	3.8
2	M	100	LEU	3.7
1	B	5	LYS	3.7
2	M	418	LEU	3.7
3	D	409	VAL	3.7
2	C	164	PRO	3.7
3	N	489	ARG	3.7
3	N	1407	LEU	3.6
3	N	1398	TRP	3.6
5	P	322	GLY	3.5
1	B	71	VAL	3.5
5	P	145	PRO	3.5
2	C	60	GLY	3.5
1	L	5	LYS	3.4
4	O	93	TYR	3.4
2	C	180	GLY	3.4
2	C	152	PRO	3.4
5	P	369	LEU	3.4
5	P	405	LEU	3.4
2	M	102	HIS	3.4
3	N	839	LEU	3.4
2	C	478	VAL	3.4
2	C	208	ALA	3.3
3	D	1249	ALA	3.3
3	N	1498	ALA	3.3
3	D	1401	GLU	3.3
2	C	211	LEU	3.3
1	B	12	THR	3.3
2	M	243	ARG	3.3
5	F	142	ARG	3.3
3	D	1503	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
2	M	293	PHE	3.3
5	F	389	PHE	3.3
2	M	179	ASN	3.3
2	M	63	GLY	3.3
3	D	485	SER	3.3
3	D	816	HIS	3.3
5	P	384	GLU	3.2
3	D	1244	GLY	3.2
2	M	208	ALA	3.2
3	N	821	VAL	3.2
2	C	417	GLY	3.2
1	A	158	ILE	3.2
5	F	322	GLY	3.2
1	A	6	LEU	3.2
2	M	180	GLY	3.2
2	C	209	ARG	3.1
4	E	94	PRO	3.1
3	D	1413	THR	3.1
3	D	481	MET	3.1
5	P	88	ILE	3.1
3	N	185	VAL	3.1
3	D	395	VAL	3.1
2	C	223	ASP	3.1
1	K	94	LEU	3.1
3	N	488	ARG	3.1
5	P	278	LEU	3.0
3	D	1495	ILE	3.0
2	C	422	ARG	3.0
2	C	361	MET	3.0
2	M	362	GLY	3.0
5	P	150	THR	3.0
1	B	3	ASP	3.0
2	M	367	LEU	3.0
5	P	412	GLU	3.0
2	M	244	PRO	3.0
2	C	38	LYS	2.9
3	D	1291	SER	2.9
3	N	1501	GLU	2.9
3	N	806	PHE	2.9
2	M	359	MET	2.9
3	N	481	MET	2.9
2	C	100	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
2	M	209	ARG	2.9
3	N	485	SER	2.9
3	D	1494	ALA	2.9
2	C	227	PHE	2.9
3	N	450	TYR	2.9
3	D	1238	MET	2.9
2	C	153	ALA	2.8
3	D	1505	ALA	2.8
5	F	415	THR	2.8
1	L	118	ALA	2.8
3	N	1239	ARG	2.8
1	L	144	VAL	2.8
3	N	799	LYS	2.8
5	F	95	THR	2.8
1	L	119	ASP	2.8
3	D	196	VAL	2.7
2	C	99	GLN	2.7
2	C	155	PRO	2.7
5	P	394	ARG	2.7
1	L	90	LEU	2.7
2	C	59	LYS	2.7
3	N	801	GLY	2.7
5	P	415	THR	2.7
3	D	489	ARG	2.7
3	N	505	SER	2.7
5	P	364	ARG	2.7
2	C	269	LEU	2.7
3	N	174	GLY	2.7
3	N	1251	ASP	2.7
2	C	620	LEU	2.7
2	C	307	LEU	2.7
3	N	829	VAL	2.7
3	N	1502	ALA	2.7
2	M	649	VAL	2.6
3	N	1408	ILE	2.6
2	C	513	VAL	2.6
3	D	1498	ALA	2.6
1	A	94	LEU	2.6
3	N	611	GLN	2.6
1	L	130	ALA	2.6
2	M	248	PRO	2.6
3	D	1237	THR	2.6

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Mol	Chain	Res	Type	RSRZ
3	D	823	LEU	2.6
5	P	194	LEU	2.6
5	F	88	ILE	2.6
2	M	360	LEU	2.6
3	D	483	HIS	2.6
3	D	1280	VAL	2.6
2	C	213	ALA	2.6
2	C	418	LEU	2.6
2	M	313	LEU	2.6
2	C	219	GLN	2.6
4	E	93	TYR	2.6
3	D	1251	ASP	2.6
1	B	138	LEU	2.5
3	N	1244	GLY	2.5
1	B	4	SER	2.5
3	D	1400	VAL	2.5
5	P	358	LEU	2.5
5	P	371	LEU	2.5
1	L	94	LEU	2.5
2	M	617	ASP	2.5
5	P	142	ARG	2.5
3	N	414	ARG	2.5
3	N	803	GLY	2.5
3	N	1404	ASN	2.5
2	C	198	ARG	2.5
5	F	374	GLY	2.5
3	D	804	LEU	2.5
3	N	615	ARG	2.5
2	M	58	ASP	2.5
2	M	107	LEU	2.5
3	N	815	ALA	2.5
1	K	93	SER	2.5
2	M	153	ALA	2.4
3	D	1408	ILE	2.4
3	N	1252	ILE	2.4
2	C	367	LEU	2.4
1	B	119	ASP	2.4
2	M	176	VAL	2.4
3	N	1245	GLY	2.4
3	N	432	TYR	2.4
1	L	71	VAL	2.4
3	N	415	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
5	F	139	ALA	2.4
3	D	612	GLY	2.4
3	N	200	ASP	2.4
5	F	151	LEU	2.4
3	D	391	ALA	2.4
2	C	362	GLY	2.4
5	F	400	ILE	2.4
3	D	419	ASP	2.4
4	E	83	ASP	2.4
5	P	416	ARG	2.4
5	F	90	GLN	2.4
3	N	484	PRO	2.4
3	N	119	SER	2.4
1	A	2	LEU	2.3
3	D	803	GLY	2.3
1	L	4	SER	2.3
2	C	183	SER	2.3
3	N	1237	THR	2.3
5	F	371	LEU	2.3
5	P	354	LEU	2.3
3	N	1495	ILE	2.3
5	F	79	ASP	2.3
2	C	39	ARG	2.3
3	D	43	GLY	2.3
2	M	363	SER	2.3
2	M	618	GLY	2.3
5	P	85	LEU	2.3
2	M	268	ASP	2.3
5	F	388	ALA	2.3
2	C	529	VAL	2.3
3	D	423	ASP	2.3
2	M	57	GLU	2.3
1	B	109	VAL	2.3
3	D	1404	ASN	2.3
1	B	68	ILE	2.3
5	P	365	GLU	2.3
3	D	824	ASN	2.3
3	D	186	VAL	2.3
3	D	1089	ALA	2.2
3	N	595	GLY	2.2
3	D	1501	GLU	2.2
2	M	69	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
4	E	57	ASP	2.2
2	C	116	GLY	2.2
3	N	171	LEU	2.2
3	N	1086	LEU	2.2
2	C	58	ASP	2.2
2	C	293	PHE	2.2
5	P	407	LYS	2.2
1	L	163	ASN	2.2
2	C	181	VAL	2.2
2	C	108	ILE	2.2
3	D	172	PRO	2.2
1	B	62	LEU	2.2
3	D	614	PHE	2.2
3	N	614	PHE	2.2
1	B	118	ALA	2.2
3	N	825	ALA	2.2
5	F	357	ALA	2.2
5	P	374	GLY	2.2
5	F	86	HIS	2.2
4	E	92	LEU	2.2
3	N	1414	PRO	2.2
3	N	487	ALA	2.2
1	B	13	VAL	2.2
3	D	1504	GLU	2.2
2	C	517	ARG	2.1
4	E	33	HIS	2.1
3	D	1497	GLU	2.1
2	C	179	ASN	2.1
2	M	1119	ARG	2.1
3	D	488	ARG	2.1
5	F	143	HIS	2.1
3	D	197	SER	2.1
5	F	282	LEU	2.1
2	C	247	PRO	2.1
1	L	117	VAL	2.1
2	C	62	GLY	2.1
2	C	69	LEU	2.1
2	M	62	GLY	2.1
3	N	824	ASN	2.1
5	P	397	ILE	2.1
2	M	256	TYR	2.1
2	M	251	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
2	M	476	GLY	2.1
5	F	365	GLU	2.1
5	F	376	ILE	2.1
5	P	153	PRO	2.1
5	F	356	LYS	2.1
3	N	193	PRO	2.1
5	F	148	LYS	2.1
2	M	40	GLU	2.1
5	F	359	SER	2.1
5	P	327	SER	2.1
2	M	101	ILE	2.1
4	O	33	HIS	2.1
1	B	136	GLY	2.1
5	F	156	VAL	2.0
1	B	92	PRO	2.0
1	K	158	ILE	2.0
5	F	390	PHE	2.0
2	M	292	ARG	2.0
2	M	185	LYS	2.0
5	F	153	PRO	2.0
2	M	202	TYR	2.0
3	N	823	LEU	2.0
2	C	57	GLU	2.0
3	N	1503	VAL	2.0
3	D	203	ALA	2.0
3	D	1499	ARG	2.0
5	F	393	THR	2.0
1	B	69	PRO	2.0
2	M	155	PRO	2.0
3	D	406	ASP	2.0
3	D	806	PHE	2.0

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

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95^{th} 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	LLDF	B-factors(Å^2)	Q<0.9
7	MXP	N	1527	30/30	0.95	0.20	0.04	17,30,38,40	0
7	MXP	D	1527	30/30	0.95	0.20	-0.04	13,20,27,34	0
6	ZN	D	1526	1/1	0.98	0.13	-0.47	48,48,48,48	0
6	ZN	N	1526	1/1	0.97	0.10	-1.06	66,66,66,66	0
6	ZN	N	1525	1/1	0.98	0.05	-2.12	58,58,58,58	0
6	ZN	D	1525	1/1	0.96	0.04	-2.55	62,62,62,62	0
8	MG	D	1528	1/1	0.97	0.06	-	35,35,35,35	0
8	MG	N	1528	1/1	0.95	0.11	-	41,41,41,41	0

6.5 Other polymers

There are no such residues in this entry.