



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 28, 2014 – 01:00 PM GMT

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

This is a full wwPDB 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/ValidationPDFNotes.html>

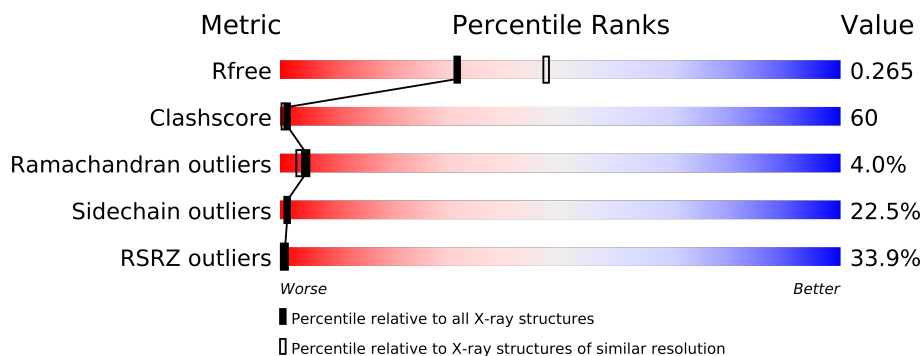
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	2207 (2.40-2.40)
Clashscore	79885	2789 (2.40-2.40)
Ramachandran outliers	78287	2736 (2.40-2.40)
Sidechain outliers	78261	2737 (2.40-2.40)
RSRZ outliers	66119	2210 (2.40-2.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

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

The following table lists non-polymeric compounds that are outliers for geometric or electron-

density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
8	MG	D	9001	-	X
8	MG	N	9002	-	X

2 Entry composition

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

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

- Molecule 1 is a protein called DNA-directed RNA polymerase alpha chain.

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

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

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

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

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

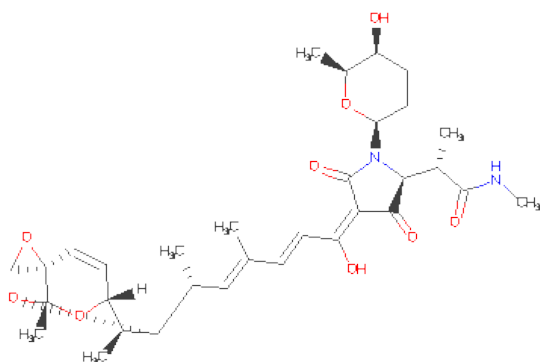
- Molecule 4 is a protein called RNA polymerase omega chain.

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

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

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

- Molecule 6 is STREPTOLYDIGIN (three-letter code: STD) (formula: C₃₂H₄₄N₂O₉).



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

- Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 9 is water.

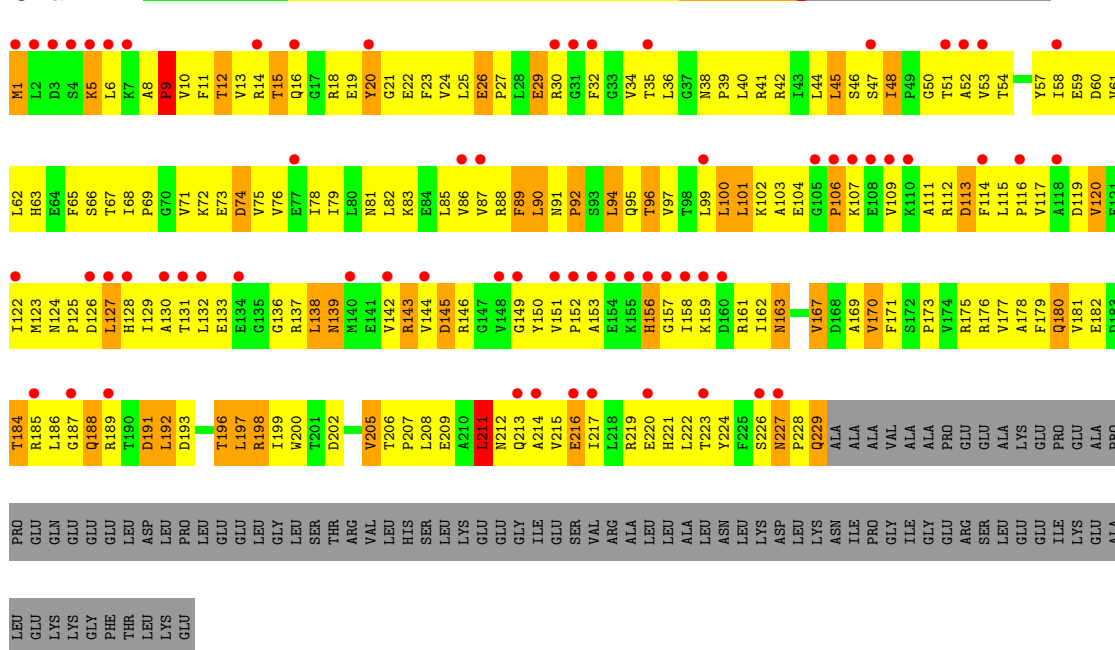
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	232	Total 232	O 232	0	0
9	B	304	Total 304	O 304	0	0
9	C	1144	Total 1144	O 1144	0	0
9	D	1546	Total 1546	O 1546	0	0
9	E	130	Total 130	O 130	0	0
9	F	491	Total 491	O 491	0	0
9	K	229	Total 229	O 229	0	0
9	L	274	Total 274	O 274	0	0
9	M	1072	Total 1072	O 1072	0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

3 Residue-property plots

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 alpha chain

Chain A:

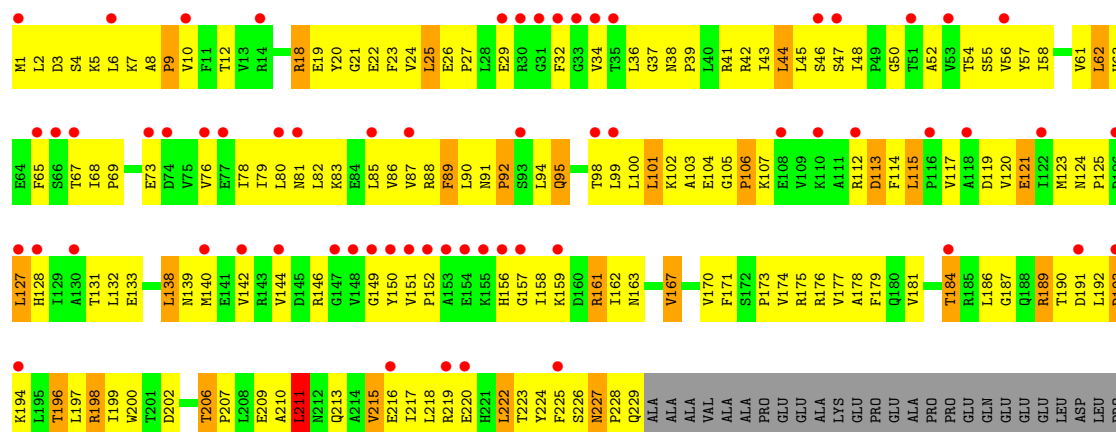


GLU
GLN
GLU
GLU
GLU
LEU
LEU
ASP
LEU
LEU
PRO
GLU
GLU
GLU
GLU
GLY
LEU
LEU
SER
THR
ARG
VAL
LEU
HIS
SER
LEU
LEU
LYS
GLU
GLU
GLY
ILE
GLU
GLU
SER
VAL
ARG
ALA
LEU
LEU
ALA
ASN
LEU
LYS
ASP
LEU
LYS
ASN
ILE
PRO
GLY
ILE
GLY
GLU
ARG
SER
LEU
GLU
GLU
ILE
LYS
GLU
ALA
LEU

GLU
LYS
LYS
GLY
PHE
THR
LEU
LYS
GLU

• Molecule 1: DNA-directed RNA polymerase alpha chain

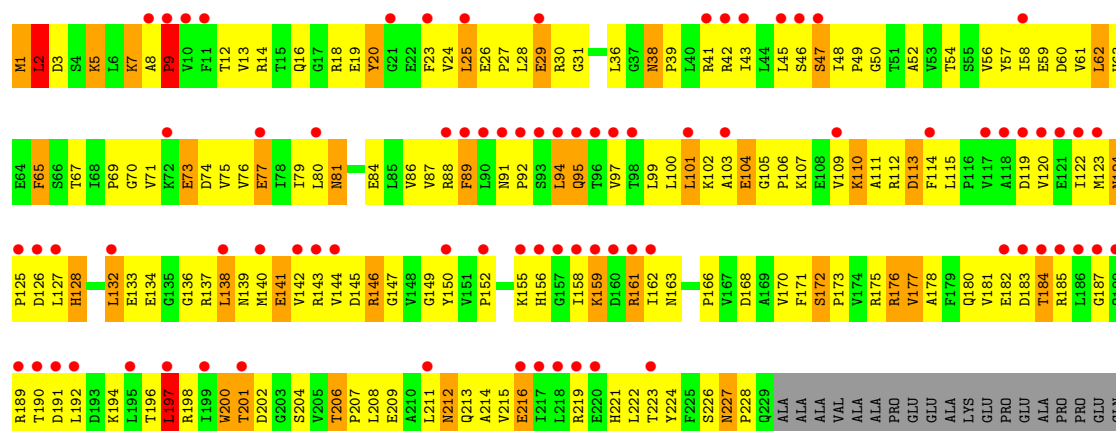
Chain K:



LEU
GLU
GLU
GLU
GLY
LEU
SER
THR
ARG
VAL
HIS
SER
LEU
LYS
GLU
GLY
ILE
GLU
SER
VAL
ARG
ALA
LEU
LEU
ALA
LEU
T222
T223
T224
F225
S226
N227
P228
Q229
ALA
ALA
VAL
ALA
ALA
PRO
GLY
ILE
GLU
ARG
SER
LEU
GLU
ILE
LYS
GLU
ALA
PRO
GLU
GLN
LYS
GLY
PHE
THR
LEU
ASP
LEU
PRO

• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L:



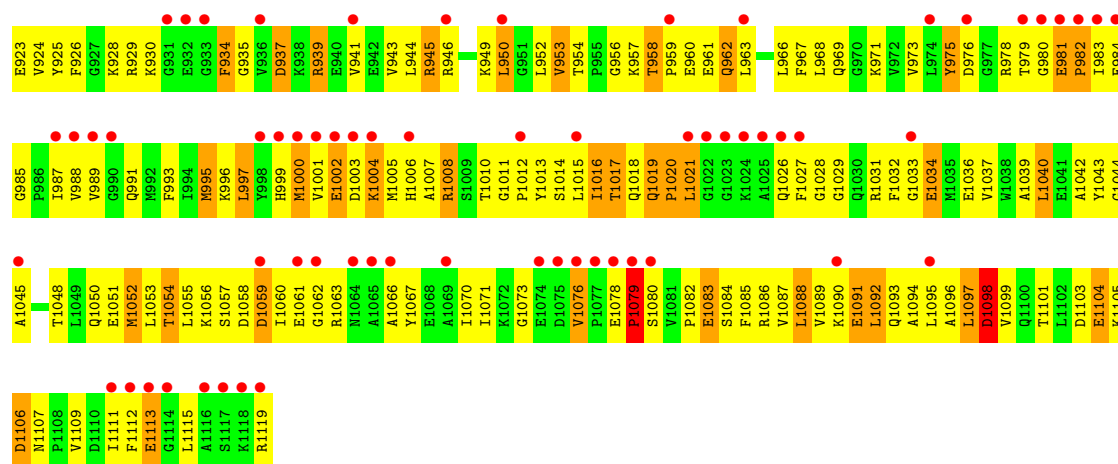
GLU
GLU
GLU
LEU
ASP
LEU
LEU
PRO
LEU
GLU
GLU
GLY
SER
THR
ARG
VAL
HIS
SER
LEU
LEU
LYS
GLU
GLY
ILE
GLU
SER
VAL
ARG
ALA
LEU
LEU
ALA
ASN
LYS
ASP
LEU
LYS
ASN
ILE
PRO
GLY
ILE
GLU
ARG
SER
LEU
GLU
GLU
ILE
PRO
GLY
ALA
PRO
GLU
GLU
LYS

LYS
GLY
PHE
THR
LEU
LYS
GLU

• Molecule 2: DNA-directed RNA polymerase beta chain

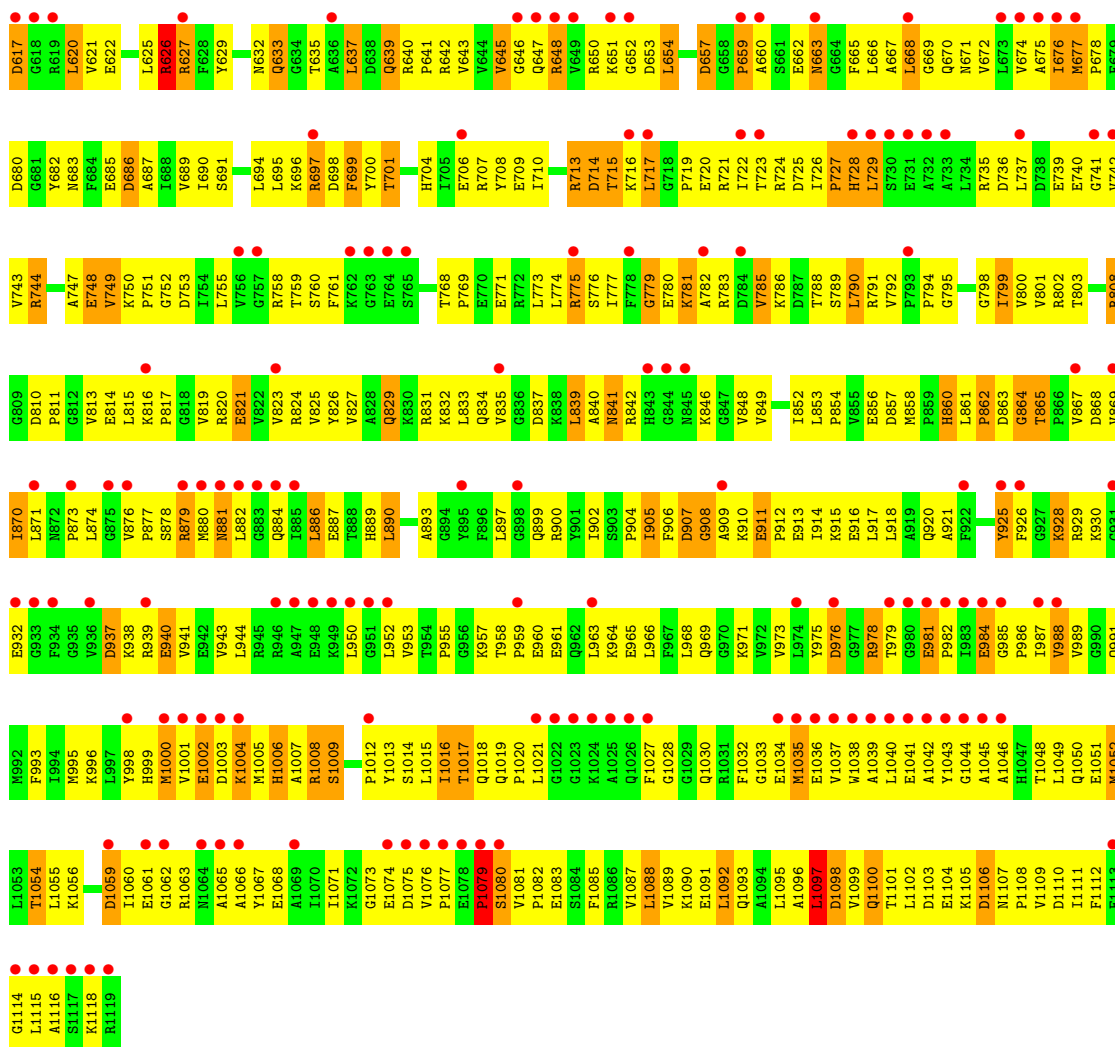
Chain C:





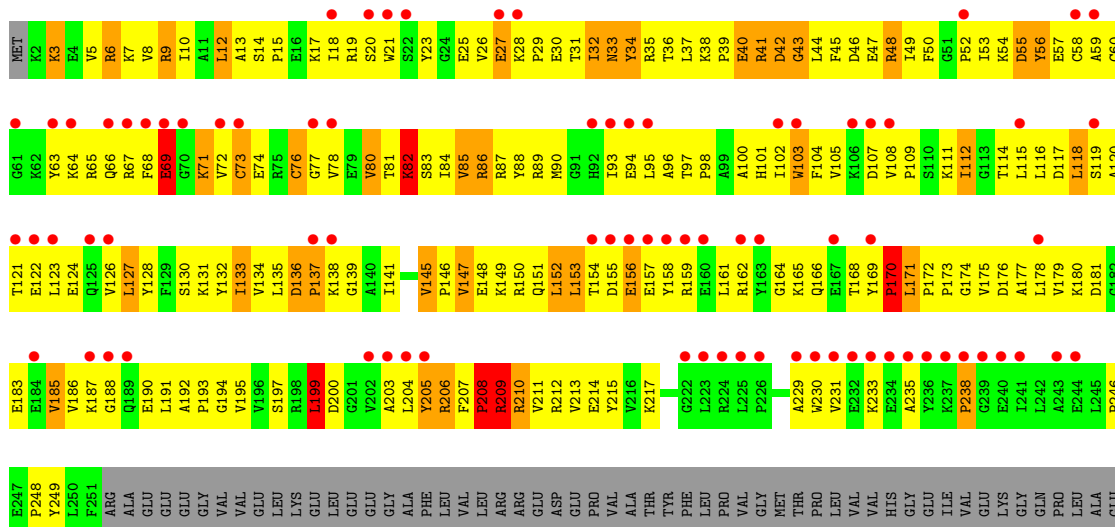
● Molecule 2: DNA-directed RNA polymerase beta chain

Chain M:

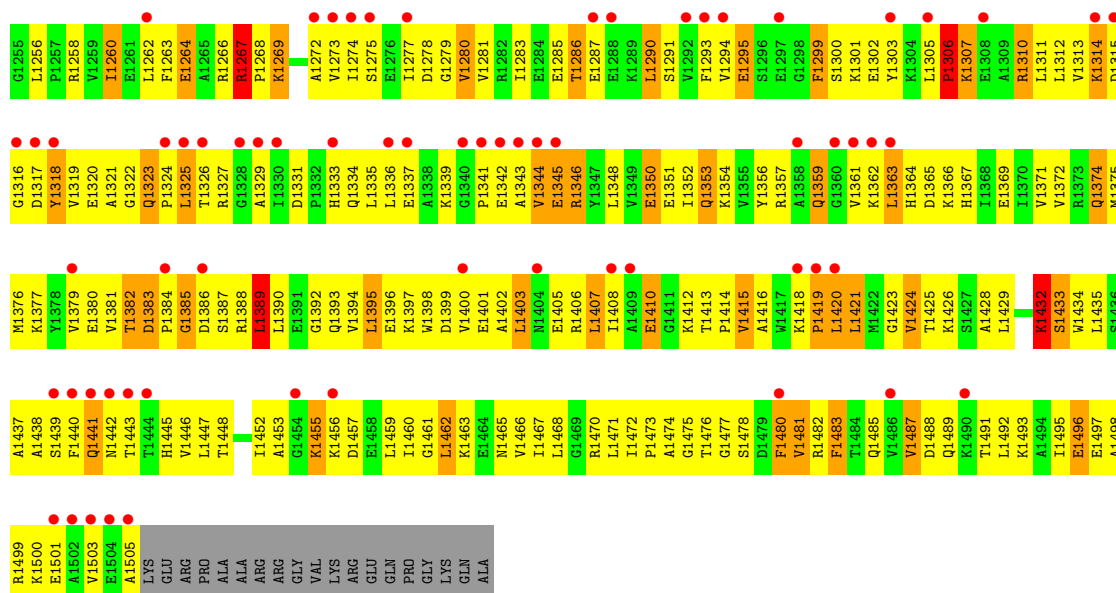


- Molecule 3: DNA-directed RNA polymerase beta' chain

Chain D:

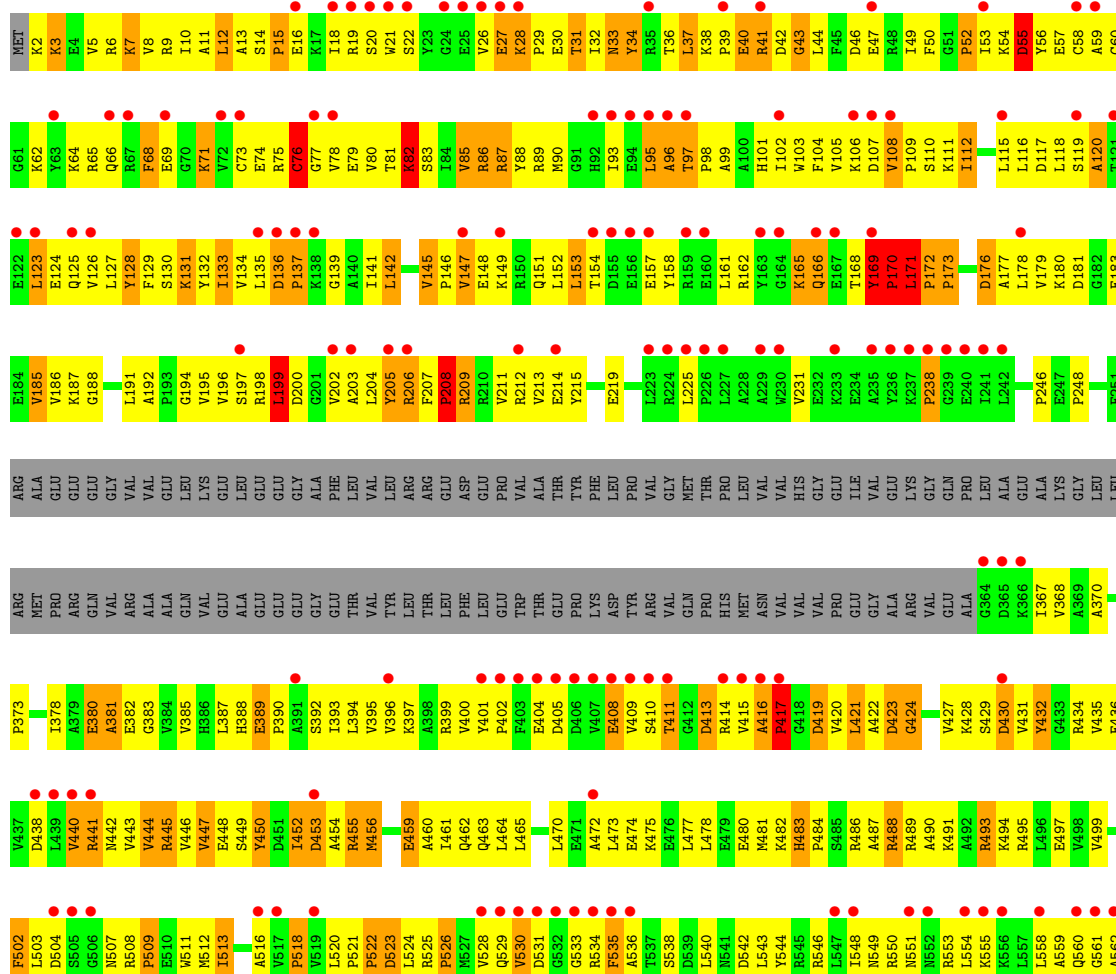


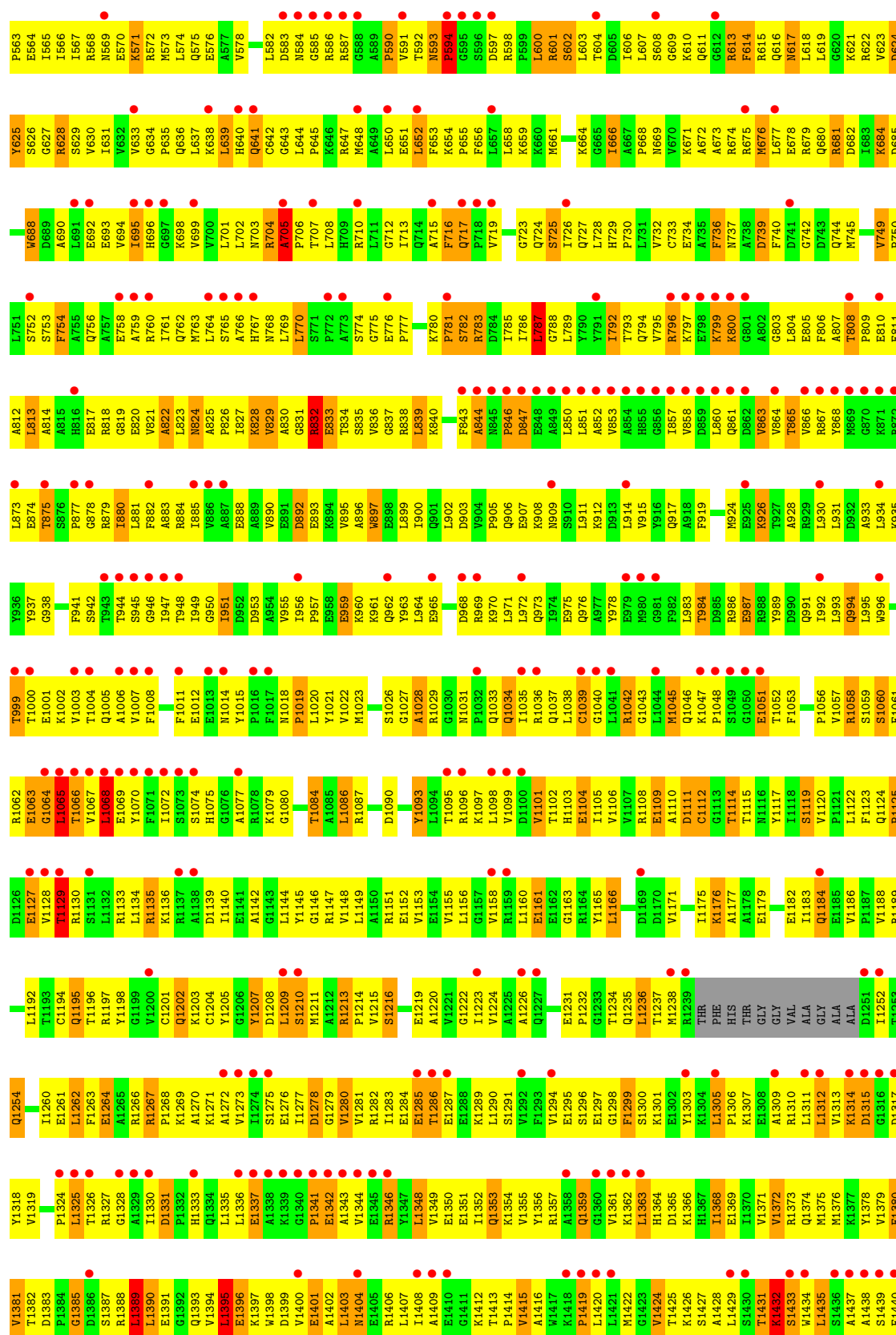


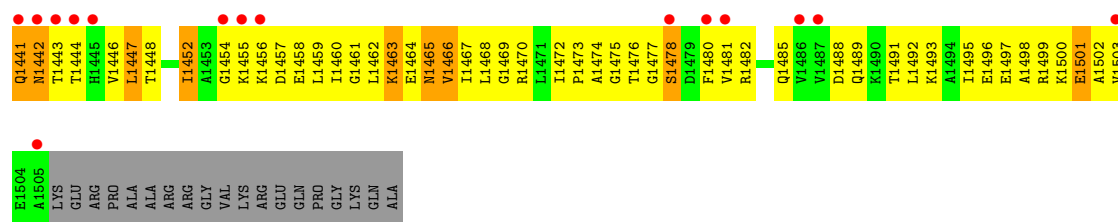


• Molecule 3: DNA-directed RNA polymerase beta' chain

Chain N:

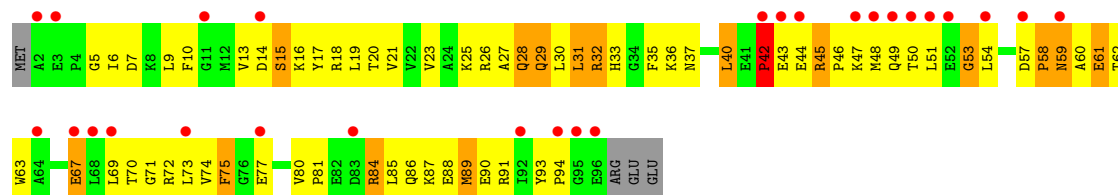






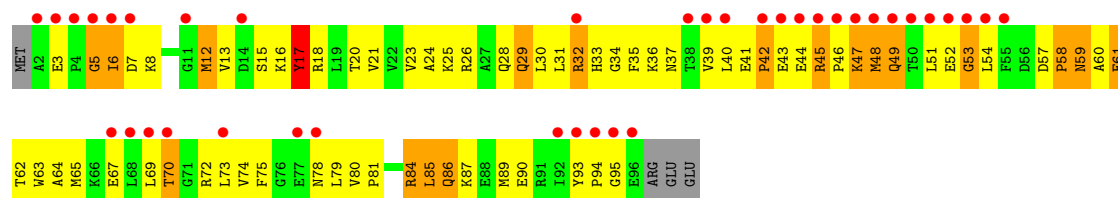
• Molecule 4: RNA polymerase omega chain

Chain E:



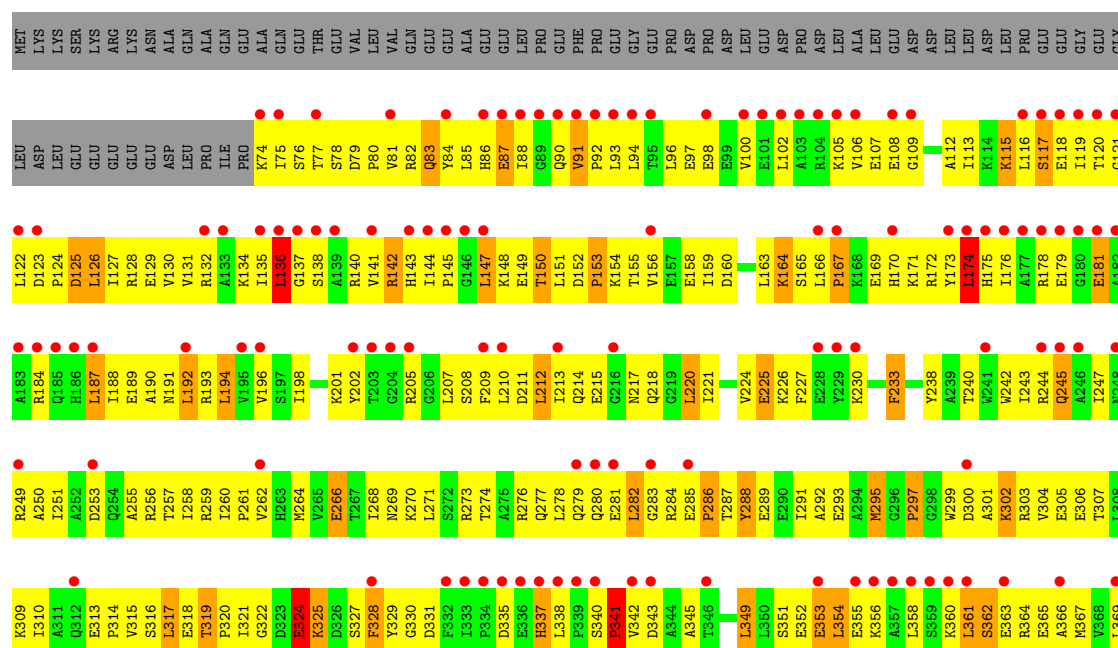
• Molecule 4: RNA polymerase omega chain

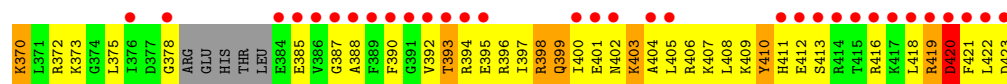
Chain O:



• Molecule 5: RNA polymerase sigma factor rpoD

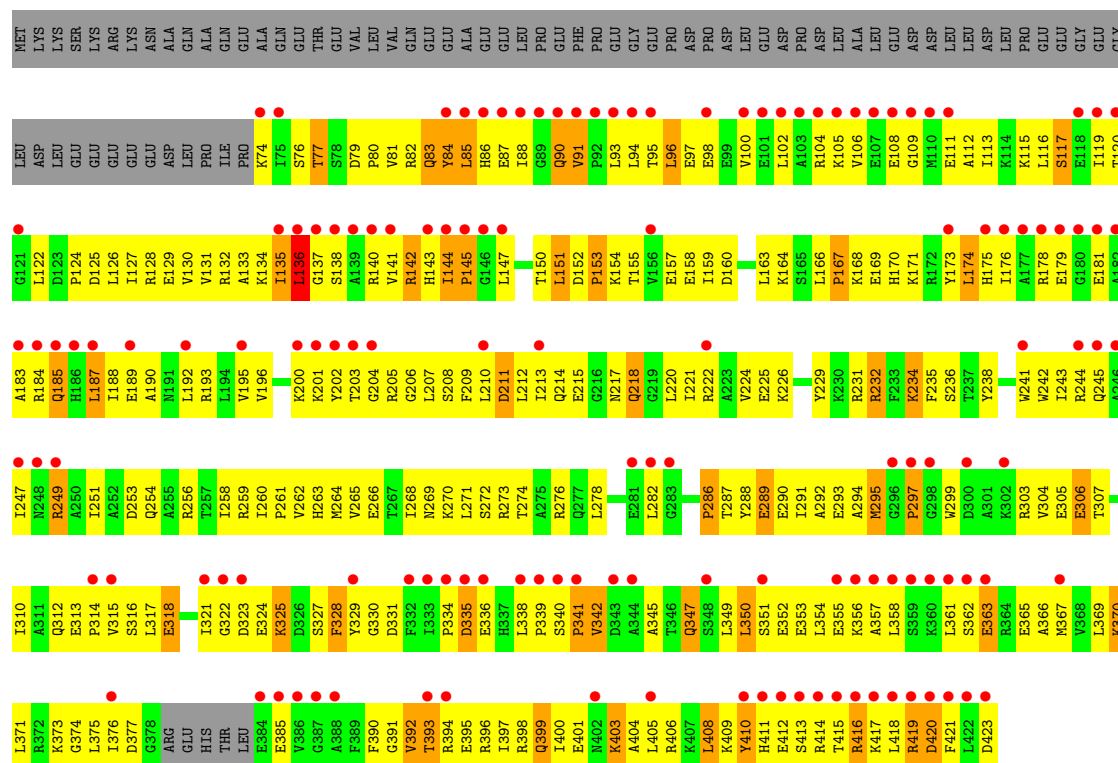
Chain F:





● Molecule 5: RNA polymerase sigma factor rpoD

Chain P:



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.40 34.69 – 2.40	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 91.1 (34.69-2.40)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.48 (at 2.39Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.230 , 0.268 0.231 , 0.265	Depositor DCC
R_{free} test set	33251 reflections (6.12%)	DCC
Wilson B-factor (Å ²)	47.0	Xtriage
Anisotropy	0.279	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.11 , -20.0	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.079 for h,-h-k,-l 0.079 for -k,-h,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 577129 reflections	Xtriage
F_o, F_c correlation	0.71	EDS
Total number of atoms	60908	wwPDB-VP
Average B, all atoms (Å ²)	70.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.80	1/1838 (0.1%)	0.87	3/2498 (0.1%)
1	B	0.75	0/1838	0.84	6/2498 (0.2%)
1	K	0.75	0/1838	0.83	1/2498 (0.0%)
1	L	0.73	1/1838 (0.1%)	0.77	3/2498 (0.1%)
2	C	0.83	1/8997 (0.0%)	0.89	7/12164 (0.1%)
2	M	0.82	0/8997	0.90	10/12164 (0.1%)
3	D	0.82	0/10903	0.93	18/14736 (0.1%)
3	N	0.81	0/10903	0.93	19/14736 (0.1%)
4	E	0.82	0/783	0.96	0/1054
4	O	0.84	1/783 (0.1%)	0.95	1/1054 (0.1%)
5	F	0.72	0/2812	0.83	4/3781 (0.1%)
5	P	0.73	0/2812	0.82	3/3781 (0.1%)
All	All	0.80	4/54342 (0.0%)	0.90	75/73462 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	O	17	TYR	CD1-CE1	6.19	1.48	1.39
1	A	48	ILE	C-N	5.79	1.45	1.34
1	L	172	SER	N-CA	-5.30	1.35	1.46
2	C	191	PHE	C-N	5.26	1.44	1.34

All (75) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1389	LEU	CA-CB-CG	8.52	134.89	115.30
3	D	76	CYS	CA-CB-SG	8.24	128.84	114.00
3	D	199	LEU	CA-CB-CG	-8.01	96.89	115.30
2	M	165	LEU	C-N-CD	-7.94	103.13	120.60
3	N	199	LEU	CA-CB-CG	-7.89	97.16	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	813	LEU	CA-CB-CG	7.73	133.08	115.30
3	D	637	LEU	CA-CB-CG	7.49	132.53	115.30
5	P	136	LEU	CA-CB-CG	7.46	132.45	115.30
1	A	192	LEU	CA-CB-CG	7.40	132.33	115.30
1	B	138	LEU	CA-CB-CG	7.37	132.24	115.30
3	D	1389	LEU	CA-CB-CG	7.19	131.84	115.30
1	B	25	LEU	CA-CB-CG	6.78	130.89	115.30
3	D	73	CYS	CA-CB-SG	6.39	125.51	114.00
2	M	571	LEU	CA-CB-CG	6.28	129.75	115.30
3	N	705	ALA	C-N-CD	6.13	141.27	128.40
1	K	211	LEU	CA-CB-CG	6.11	129.36	115.30
5	F	354	LEU	CA-CB-CG	6.04	129.19	115.30
5	P	354	LEU	CA-CB-CG	6.04	129.19	115.30
5	P	85	LEU	CA-CB-CG	5.93	128.95	115.30
1	B	2	LEU	CA-CB-CG	5.91	128.89	115.30
3	D	238	PRO	N-CA-CB	5.88	110.35	103.30
3	D	1395	LEU	CA-CB-CG	5.86	128.77	115.30
3	N	238	PRO	N-CA-CB	5.84	110.31	103.30
3	D	208	PRO	CA-N-CD	-5.78	103.41	111.50
2	M	207	LEU	CA-CB-CG	5.77	128.57	115.30
3	N	171	LEU	CA-CB-CG	5.75	128.54	115.30
3	N	1209	LEU	N-CA-C	-5.75	95.48	111.00
5	F	136	LEU	CA-CB-CG	5.68	128.37	115.30
3	N	1065	LEU	CA-CB-CG	5.67	128.35	115.30
3	D	209	ARG	N-CA-C	5.67	126.30	111.00
2	M	243	ARG	C-N-CD	-5.66	108.14	120.60
3	N	76	CYS	CA-CB-SG	5.66	124.19	114.00
3	D	581	LEU	CA-CB-CG	5.65	128.30	115.30
3	N	209	ARG	N-CA-C	5.64	126.24	111.00
3	D	1209	LEU	N-CA-C	-5.62	95.81	111.00
1	B	171	PHE	CA-C-N	5.58	129.48	117.20
2	M	423	ALA	N-CA-C	5.58	126.06	111.00
3	N	1068	LEU	CA-CB-CG	-5.49	102.69	115.30
3	D	972	LEU	CA-CB-CG	5.46	127.87	115.30
3	N	380	GLU	N-CA-C	-5.46	96.25	111.00
3	N	82	LYS	C-N-CA	-5.44	108.10	121.70
5	F	174	LEU	CA-CB-CG	5.43	127.78	115.30
2	C	861	LEU	CA-CB-CG	5.41	127.73	115.30
1	L	2	LEU	CA-CB-CG	5.38	127.67	115.30
1	B	36	LEU	CA-CB-CG	5.37	127.65	115.30
3	N	423	ASP	N-CA-C	5.37	125.50	111.00
1	L	197	LEU	CA-CB-CG	5.32	127.53	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	208	PRO	CA-N-CD	-5.32	104.06	111.50
2	C	243	ARG	C-N-CD	-5.29	108.97	120.60
3	D	380	GLU	N-CA-C	-5.29	96.72	111.00
3	D	423	ASP	N-CA-C	5.25	125.19	111.00
3	N	1395	LEU	CA-CB-CG	5.21	127.29	115.30
5	F	361	LEU	CA-CB-CG	5.21	127.28	115.30
2	C	58	ASP	C-N-CA	5.20	134.70	121.70
3	D	248	PRO	N-CA-CB	5.20	109.53	103.30
3	N	248	PRO	N-CA-CB	5.18	109.52	103.30
2	M	728	HIS	N-CA-C	5.18	124.98	111.00
1	L	132	LEU	CA-CB-CG	5.17	127.19	115.30
2	C	728	HIS	N-CA-C	5.15	124.90	111.00
3	N	1363	LEU	CA-CB-CG	5.15	127.14	115.30
2	C	394	PHE	CB-CG-CD1	-5.14	117.20	120.80
1	A	90	LEU	CA-CB-CG	-5.13	103.50	115.30
2	C	1098	ASP	CB-CG-OD1	5.11	122.90	118.30
1	A	211	LEU	CB-CG-CD2	-5.11	102.32	111.00
2	M	360	LEU	CA-CB-CG	5.10	127.02	115.30
2	M	285	LEU	CA-CB-CG	5.09	127.01	115.30
1	B	132	LEU	CA-CB-CG	5.09	127.00	115.30
3	D	1305	LEU	CA-CB-CG	5.08	126.98	115.30
3	N	813	LEU	CA-CB-CG	5.05	126.92	115.30
3	D	839	LEU	CA-CB-CG	5.05	126.91	115.30
4	O	49	GLN	N-CA-C	5.05	124.63	111.00
2	M	267	TYR	CA-CB-CG	5.03	122.95	113.40
2	M	423	ALA	CA-C-N	5.02	126.23	116.20
3	N	787	LEU	CA-CB-CG	5.02	126.84	115.30
2	C	98	LEU	CA-CB-CG	5.01	126.83	115.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	239	0
1	B	1806	0	1861	210	0
1	K	1806	0	1861	178	0
1	L	1806	0	1861	205	0
2	C	8829	0	8933	1211	0
2	M	8829	0	8933	1154	0
3	D	10728	0	10809	1434	0
3	N	10728	0	10809	1309	0
4	E	769	0	775	89	0
4	O	769	0	775	118	0
5	F	2771	0	2844	364	0
5	P	2771	0	2844	336	0
6	D	43	0	31	4	0
6	N	43	0	31	6	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
9	A	232	0	0	42	0
9	B	304	0	0	53	0
9	C	1144	0	0	274	0
9	D	1546	0	0	310	0
9	E	130	0	0	20	0
9	F	491	0	0	108	0
9	K	229	0	0	33	0
9	L	274	0	0	51	0
9	M	1072	0	0	223	0
9	N	1392	0	0	261	0
9	O	137	0	0	26	0
9	P	447	0	0	72	0
All	All	60908	0	54228	6435	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 60.

All (6435) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.30	1.08
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.09	1.06
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.36	1.05
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.22	1.05
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.38	1.03
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.41	1.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.39	1.02
2:C:630:ARG:HE	2:C:705:ILE:HB	1.24	1.02
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.37	1.02
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.39	1.02
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.38	1.01
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.22	1.00
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.42	0.99
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.45	0.99
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.46	0.98
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.43	0.98
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.26	0.97
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.46	0.97
1:A:68:ILE:HD13	1:A:138:LEU:HD11	1.46	0.97
3:D:1412:LYS:HA	9:D:9761:HOH:O	1.65	0.97
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.46	0.97
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.29	0.97
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.45	0.97
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.46	0.96
2:C:126:SER:HB3	2:C:407:LYS:HE2	1.47	0.96
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.31	0.95
2:C:1016:ILE:HD11	5:F:330:GLY:HA3	1.49	0.95
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.49	0.95
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.32	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.46	0.95
2:M:154:ARG:HH21	2:M:156:GLY:HA3	1.31	0.94
2:M:626:ARG:HB2	2:M:639:GLN:HE22	1.31	0.94
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.31	0.94
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.50	0.94
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.49	0.94
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.47	0.93
2:M:1102:LEU:HB2	3:N:7:LYS:HG3	1.50	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.49	0.93
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.49	0.93
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.50	0.93
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.34	0.93
3:D:1124:GLN:HE21	3:D:1135:ARG:HG2	1.32	0.93
2:M:412:ALA:CB	2:M:451:LEU:HB3	1.99	0.92
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.49	0.92
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.51	0.92
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.52	0.92
3:N:141:ILE:HG12	3:N:449:SER:HA	1.51	0.92
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.52	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:65:ARG:HG3	3:N:66:GLN:H	1.31	0.92
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.52	0.92
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.08	0.91
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.52	0.91
1:K:219:ARG:HH22	1:L:223:THR:HG22	1.35	0.91
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.34	0.91
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.50	0.91
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.52	0.91
2:C:979:THR:HG23	2:C:981:GLU:H	1.36	0.91
3:D:119:SER:HB2	3:D:123:LEU:H	1.34	0.90
3:N:41:ARG:HD3	3:N:43:GLY:H	1.36	0.90
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.52	0.90
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.53	0.90
3:D:661:MET:HE1	3:D:677:LEU:HD11	1.53	0.90
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.36	0.90
3:N:978:TYR:HA	9:N:2283:HOH:O	1.70	0.90
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.53	0.90
2:M:196:LEU:HD23	2:M:200:LEU:HD11	1.54	0.89
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.52	0.89
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.52	0.89
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.52	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.54	0.89
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.55	0.89
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.54	0.89
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.36	0.89
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	1.55	0.88
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.36	0.88
2:M:979:THR:HG23	2:M:981:GLU:H	1.38	0.88
2:C:439:CYS:HB3	2:C:442:GLU:HB2	1.54	0.88
2:M:905:ILE:HD12	2:M:905:ILE:H	1.37	0.88
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.56	0.87
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.57	0.87
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.53	0.87
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.57	0.87
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.57	0.87
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.39	0.86
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.57	0.86
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.38	0.86
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.56	0.86
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.58	0.86
1:K:67:THR:H	2:M:627:ARG:NH2	1.73	0.86
2:C:305:PRO:HB3	2:C:308:ARG:HH21	1.38	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1311:LEU:HA	9:D:9040:HOH:O	1.76	0.86
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.58	0.86
3:N:119:SER:HB2	3:N:123:LEU:H	1.41	0.86
3:D:598:ARG:NH1	5:F:319:THR:HA	1.91	0.86
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.41	0.86
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.91	0.85
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.55	0.85
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.55	0.85
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.58	0.85
3:D:973:GLN:HA	9:D:2386:HOH:O	1.76	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.58	0.85
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.58	0.85
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.57	0.85
2:C:818:GLY:HA3	9:C:1150:HOH:O	1.77	0.85
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.56	0.85
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.57	0.85
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.57	0.85
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.57	0.85
2:M:412:ALA:HB2	2:M:451:LEU:HB3	1.57	0.85
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.58	0.85
2:M:573:ARG:HH21	2:M:697:ARG:HB2	1.42	0.84
2:M:573:ARG:NH2	2:M:697:ARG:HB2	1.92	0.84
3:N:973:GLN:HA	3:N:976:GLN:HE21	1.42	0.84
2:M:409:ARG:HA	2:M:454:SER:HA	1.59	0.84
3:D:86:ARG:O	3:D:522:PRO:HD2	1.77	0.84
2:C:41:ASN:HD22	2:C:41:ASN:H	1.22	0.84
2:C:1090:LYS:HZ2	3:D:90:MET:HG3	1.42	0.84
2:M:860:HIS:HB2	9:M:1390:HOH:O	1.75	0.84
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.59	0.84
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.57	0.84
2:M:964:LYS:O	2:M:968:LEU:HG	1.77	0.84
5:F:361:LEU:HD23	5:F:362:SER:H	1.43	0.84
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.92	0.84
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.60	0.84
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.59	0.84
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.60	0.84
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.60	0.84
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.57	0.84
2:C:721:ARG:HH21	2:C:783:ARG:HH21	1.24	0.84
2:C:436:GLY:HA2	2:C:538:GLN:O	1.77	0.84
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.40	0.83
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.58	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:651:LYS:HA	9:C:1155:HOH:O	1.79	0.83
2:M:689:VAL:HB	2:M:870:ILE:HG13	1.60	0.83
9:C:1150:HOH:O	3:D:532:GLY:HA2	1.77	0.83
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.61	0.83
3:D:1495:ILE:HD11	9:E:161:HOH:O	1.77	0.83
3:D:397:LYS:HG2	9:D:9673:HOH:O	1.79	0.83
5:P:133:ALA:HA	9:P:4452:HOH:O	1.79	0.83
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.61	0.83
2:C:804:VAL:HG23	2:C:824:ARG:HB2	1.58	0.83
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.43	0.83
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.58	0.83
2:M:22:GLN:NE2	2:M:336:VAL:HG21	1.93	0.83
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.61	0.83
2:C:350:ARG:HB3	2:C:350:ARG:HH11	1.42	0.83
2:C:943:VAL:HG23	2:C:985:GLY:H	1.42	0.83
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.78	0.83
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.60	0.83
3:N:1210:SER:HA	9:N:9085:HOH:O	1.78	0.82
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.59	0.82
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.43	0.82
2:C:671:ASN:HD22	2:C:671:ASN:N	1.78	0.82
2:C:244:PRO:HD2	2:C:245:GLY:H	1.44	0.82
2:M:1018:GLN:HE21	2:M:1060:ILE:HD11	1.44	0.82
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.59	0.82
2:M:715:THR:HB	2:M:717:LEU:HG	1.61	0.82
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.59	0.82
2:M:428:ARG:NH1	6:N:8002:STD:H292	1.94	0.82
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.59	0.82
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.62	0.82
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.43	0.82
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.60	0.82
1:B:185:ARG:HA	9:B:592:HOH:O	1.78	0.82
1:B:74:ASP:HB3	9:B:475:HOH:O	1.77	0.82
3:N:704:ARG:HD2	3:N:705:ALA:H	1.44	0.82
3:D:720:LEU:H	3:D:720:LEU:HD12	1.45	0.82
2:M:227:PHE:HA	2:M:230:ARG:HE	1.43	0.81
2:C:847:GLY:HA2	9:C:1260:HOH:O	1.79	0.81
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.61	0.81
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.60	0.81
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.62	0.81
3:N:699:VAL:H	3:N:756:GLN:NE2	1.77	0.81
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.63	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1054:THR:HG23	2:C:1082:PRO:HG3	1.60	0.81
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.63	0.81
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.62	0.81
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.63	0.81
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.94	0.81
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.63	0.81
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.63	0.81
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.62	0.81
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.62	0.81
2:C:328:LEU:HD13	2:C:433:THR:HB	1.60	0.81
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.61	0.81
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.61	0.81
3:D:149:LYS:HA	9:D:9019:HOH:O	1.81	0.80
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.62	0.80
2:C:1099:VAL:HG23	9:C:1503:HOH:O	1.81	0.80
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.63	0.80
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.62	0.80
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.61	0.80
1:B:179:PHE:HB3	1:B:197:LEU:HG	1.63	0.80
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.64	0.80
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.62	0.80
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.64	0.80
3:N:565:ILE:H	3:N:565:ILE:HD12	1.46	0.80
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.63	0.80
3:N:493:ARG:HH21	3:N:1388:ARG:HB3	1.45	0.80
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.63	0.80
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.63	0.80
2:M:873:PRO:HB3	3:N:949:ILE:HG12	1.63	0.80
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	1.63	0.80
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.46	0.80
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.64	0.80
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.64	0.80
5:F:337:HIS:CD2	5:F:337:HIS:H	2.00	0.80
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.47	0.80
1:L:133:GLU:HB3	9:L:5271:HOH:O	1.81	0.80
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.64	0.79
1:B:190:THR:HA	9:B:592:HOH:O	1.82	0.79
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.62	0.79
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.64	0.79
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.16	0.79
3:D:464:LEU:HA	9:D:2108:HOH:O	1.81	0.79
3:N:169:TYR:HD1	3:N:169:TYR:H	1.30	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.64	0.79
3:D:1320:GLU:HG2	3:D:1339:LYS:HE2	1.63	0.79
1:K:88:ARG:HE	1:K:121:GLU:HG2	1.46	0.79
3:D:1234:THR:HA	9:D:9918:HOH:O	1.81	0.79
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.64	0.79
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.63	0.79
2:M:412:ALA:HA	9:M:1151:HOH:O	1.82	0.79
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.65	0.79
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.64	0.79
3:D:1136:LYS:HB2	9:D:2265:HOH:O	1.82	0.79
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.80	0.79
2:C:413:LEU:HD12	2:C:413:LEU:H	1.46	0.79
3:N:86:ARG:O	3:N:522:PRO:HD2	1.81	0.79
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.65	0.79
4:E:85:LEU:HA	9:E:161:HOH:O	1.81	0.79
2:M:650:ARG:HG2	2:M:653:ASP:HB2	1.64	0.79
3:N:1261:GLU:HG2	9:N:9222:HOH:O	1.83	0.79
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.63	0.79
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.63	0.79
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.65	0.79
2:C:750:LYS:HB2	3:D:681:ARG:HH21	1.48	0.78
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.64	0.78
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.65	0.78
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.65	0.78
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.65	0.78
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.64	0.78
2:M:943:VAL:HG23	2:M:985:GLY:H	1.48	0.78
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.82	0.78
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.65	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
1:L:206:THR:HG22	1:L:209:GLU:H	1.47	0.78
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.66	0.78
4:O:33:HIS:HB3	9:O:5639:HOH:O	1.81	0.78
3:D:554:LEU:HA	9:D:9564:HOH:O	1.82	0.78
2:M:422:ARG:HA	9:M:1373:HOH:O	1.81	0.78
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.63	0.78
2:M:768:THR:HB	2:M:771:GLU:HB3	1.64	0.78
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.66	0.78
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.63	0.78
3:D:101:HIS:ND1	3:D:103:TRP:HB2	1.99	0.78
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.78
2:M:752:GLY:H	2:M:792:VAL:HB	1.47	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.66	0.78
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.64	0.78
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.66	0.78
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.64	0.78
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.66	0.78
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.66	0.78
2:C:703:ILE:HG22	9:C:1760:HOH:O	1.84	0.77
4:O:93:TYR:HB2	9:O:5639:HOH:O	1.84	0.77
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.66	0.77
3:D:1374:GLN:HE22	3:D:1377:LYS:HD2	1.48	0.77
2:C:69:LEU:HG	9:C:1321:HOH:O	1.84	0.77
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.77
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.67	0.77
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.65	0.77
3:N:1296:SER:HB3	9:N:9049:HOH:O	1.84	0.77
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.66	0.77
2:M:281:LEU:HD11	2:M:306:THR:HA	1.65	0.77
3:D:616:GLN:HG3	3:D:619:LEU:HB3	1.67	0.77
2:C:500:ASN:HD21	3:D:1067:VAL:HG23	1.50	0.77
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.65	0.77
3:D:1061:PHE:HA	9:D:9012:HOH:O	1.85	0.77
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.84	0.77
3:N:53:ILE:HG23	3:N:54:LYS:H	1.47	0.77
5:F:76:SER:O	5:F:80:PRO:HD2	1.83	0.77
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.49	0.77
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.67	0.77
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.84	0.77
1:L:156:HIS:ND1	1:L:158:ILE:HG12	1.99	0.77
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.65	0.77
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.76
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.66	0.76
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.49	0.76
3:N:535:PHE:O	5:P:315:VAL:N	2.17	0.76
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.50	0.76
2:M:244:PRO:HD2	2:M:245:GLY:H	1.49	0.76
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.51	0.76
3:D:756:GLN:O	3:D:760:ARG:HG2	1.85	0.76
1:K:42:ARG:NH1	2:M:857:ASP:HB3	1.99	0.76
1:A:20:TYR:HD2	1:A:21:GLY:N	1.83	0.76
3:D:598:ARG:HH12	5:F:319:THR:HA	1.49	0.76
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.67	0.76
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.66	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:102:LYS:HG3	1:K:139:ASN:HB2	1.65	0.76
3:D:704:ARG:HB3	9:D:9490:HOH:O	1.84	0.76
1:A:177:VAL:O	2:C:864:GLY:HA3	1.85	0.76
1:L:194:LYS:HG2	9:L:6021:HOH:O	1.84	0.76
2:M:94:LEU:HD11	9:M:1826:HOH:O	1.84	0.76
1:B:13:VAL:HG23	9:B:396:HOH:O	1.85	0.76
3:D:445:ARG:HB2	3:D:445:ARG:HH11	1.50	0.76
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.66	0.76
2:C:626:ARG:H	2:C:639:GLN:NE2	1.83	0.76
4:O:12:MET:HG3	9:O:7062:HOH:O	1.86	0.76
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	1.68	0.76
3:N:37:LEU:HA	9:N:9522:HOH:O	1.86	0.76
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.66	0.76
2:C:21:ILE:HD12	2:C:21:ILE:H	1.49	0.76
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.68	0.76
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.65	0.76
1:A:14:ARG:NH2	1:A:22:GLU:HB3	1.99	0.76
2:M:1016:ILE:HD11	5:P:330:GLY:O	1.85	0.76
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.68	0.76
2:C:768:THR:HB	2:C:771:GLU:HB3	1.68	0.76
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.25	0.76
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.68	0.76
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.01	0.76
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.66	0.76
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.86	0.75
2:M:897:LEU:HD21	2:M:920:GLN:HE21	1.50	0.75
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.68	0.75
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.68	0.75
3:N:830:ALA:HA	9:N:2273:HOH:O	1.84	0.75
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.65	0.75
3:N:139:GLY:O	3:N:147:VAL:HB	1.86	0.75
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.68	0.75
3:D:1136:LYS:HA	9:D:9116:HOH:O	1.86	0.75
3:D:493:ARG:HH12	3:D:1389:LEU:HD12	1.51	0.75
3:N:192:ALA:O	3:N:195:VAL:HG23	1.86	0.75
1:K:123:MET:HG2	9:K:4125:HOH:O	1.85	0.75
1:B:102:LYS:HE3	9:B:503:HOH:O	1.86	0.75
3:D:1236:LEU:HD12	3:D:1256:LEU:HD13	1.69	0.75
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.68	0.75
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.87	0.75
3:D:572:ARG:HH12	5:F:79:ASP:CG	1.90	0.75
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.67	0.75
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.01	0.75
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.68	0.75
2:C:211:LEU:HD11	2:C:308:ARG:HA	1.68	0.75
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.69	0.75
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.69	0.75
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.67	0.75
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.68	0.75
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.87	0.75
1:K:67:THR:H	2:M:627:ARG:HH21	1.32	0.75
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.67	0.75
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.69	0.75
1:L:103:ALA:HB1	1:L:107:LYS:HE3	1.69	0.75
2:M:837:ASP:HB2	9:M:1208:HOH:O	1.86	0.75
2:M:397:GLU:H	2:M:633:GLN:NE2	1.84	0.74
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.68	0.74
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.86	0.74
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.68	0.74
3:D:1236:LEU:HD23	3:D:1359:GLN:HE21	1.49	0.74
3:N:41:ARG:CZ	3:N:42:ASP:HB2	2.18	0.74
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.87	0.74
2:M:96:ALA:HB2	9:M:1826:HOH:O	1.86	0.74
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.50	0.74
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.69	0.74
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.88	0.74
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.51	0.74
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.69	0.74
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.34	0.74
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.69	0.74
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.69	0.74
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.69	0.74
4:E:88:GLU:HB2	9:E:161:HOH:O	1.85	0.74
2:M:410:ILE:O	2:M:452:ILE:HA	1.88	0.74
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.70	0.74
3:D:808:THR:HB	3:D:809:PRO:HD3	1.69	0.74
5:P:270:LYS:HA	5:P:273:ARG:HD2	1.69	0.74
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.03	0.74
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.23	0.74
2:M:423:ALA:HB1	9:M:1180:HOH:O	1.86	0.74
5:F:191:ASN:HB2	9:F:598:HOH:O	1.86	0.74
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.70	0.74
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.69	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:705:ILE:HG13	9:C:1760:HOH:O	1.87	0.74
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.70	0.74
3:N:13:ALA:HA	9:N:9038:HOH:O	1.87	0.74
3:D:210:ARG:HH11	3:D:210:ARG:HB3	1.53	0.74
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.69	0.74
3:D:1127:GLU:HG3	9:D:9015:HOH:O	1.87	0.74
3:N:903:ASP:HA	9:N:9909:HOH:O	1.87	0.74
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.53	0.74
3:D:530:VAL:HA	9:D:2446:HOH:O	1.87	0.74
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.69	0.74
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.70	0.74
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.70	0.73
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.51	0.73
2:C:322:VAL:HA	9:C:1224:HOH:O	1.88	0.73
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.88	0.73
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.70	0.73
2:C:41:ASN:N	2:C:41:ASN:HD22	1.86	0.73
3:D:465:LEU:HD22	9:D:9443:HOH:O	1.89	0.73
5:P:269:ASN:HB3	5:P:273:ARG:HE	1.50	0.73
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.69	0.73
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.70	0.73
3:N:131:LYS:HG3	3:N:572:ARG:HH21	1.54	0.73
9:D:9529:HOH:O	4:E:61:GLU:HG2	1.87	0.73
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.88	0.73
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.51	0.73
1:B:199:ILE:HD11	1:B:211:LEU:HD13	1.70	0.73
3:D:775:GLY:HA2	9:D:9258:HOH:O	1.87	0.73
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.70	0.73
2:C:945:ARG:HG3	2:C:946:ARG:N	2.04	0.73
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.71	0.73
3:D:461:ILE:HG22	9:D:9464:HOH:O	1.89	0.73
2:M:1090:LYS:HE3	3:N:90:MET:HG2	1.68	0.73
3:D:1374:GLN:HE21	3:D:1374:GLN:HA	1.54	0.73
4:E:87:LYS:HZ3	4:E:91:ARG:HE	1.37	0.73
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.70	0.73
3:D:679:ARG:HB2	3:D:682:ASP:OD1	1.89	0.73
2:C:616:GLU:HG3	9:C:1986:HOH:O	1.88	0.73
2:M:164:PRO:HA	9:M:1138:HOH:O	1.88	0.73
3:N:875:THR:HG22	3:N:879:ARG:HE	1.51	0.73
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.54	0.73
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.52	0.73
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.69	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:630:ARG:NE	2:C:705:ILE:HB	2.03	0.73
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.70	0.73
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.71	0.73
1:A:95:GLN:HG2	1:A:146:ARG:HH22	1.54	0.73
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.70	0.73
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.71	0.73
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.54	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.54	0.72
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	1.89	0.72
5:F:337:HIS:HD2	5:F:337:HIS:H	1.36	0.72
3:D:58:CYS:SG	3:D:59:ALA:N	2.62	0.72
4:E:30:LEU:O	4:E:35:PHE:HA	1.89	0.72
2:M:1005:MET:HB2	3:N:648:MET:HE1	1.71	0.72
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.52	0.72
3:N:838:ARG:HB2	9:N:2269:HOH:O	1.88	0.72
2:C:771:GLU:O	2:C:775:ARG:HG2	1.88	0.72
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.72	0.72
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.72
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.04	0.72
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.72	0.72
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.55	0.72
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.19	0.72
3:N:549:ASN:HB2	9:N:9149:HOH:O	1.89	0.72
2:M:704:HIS:HA	9:M:1178:HOH:O	1.88	0.72
3:N:639:LEU:HD12	3:N:639:LEU:H	1.53	0.72
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.72	0.72
1:A:24:VAL:HG22	1:A:196:THR:HB	1.70	0.72
3:D:673:ALA:HB2	9:D:9062:HOH:O	1.88	0.72
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.70	0.72
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.70	0.72
3:D:73:CYS:HB3	3:D:76:CYS:O	1.89	0.72
3:D:513:ILE:HG23	9:D:9117:HOH:O	1.89	0.72
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.04	0.72
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.53	0.72
3:N:1394:VAL:HG11	9:N:2250:HOH:O	1.88	0.72
2:C:175:GLU:HA	9:C:2004:HOH:O	1.90	0.72
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.72	0.72
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.53	0.72
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.71	0.72
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.89	0.72
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.71	0.72
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.54	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:78:ILE:HA	9:B:385:HOH:O	1.90	0.72
3:D:141:ILE:HD13	3:D:450:TYR:HB2	1.72	0.72
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.55	0.72
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.71	0.72
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.71	0.72
2:M:511:GLU:O	2:M:526:PRO:HD3	1.89	0.72
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.71	0.72
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.71	0.72
2:M:478:VAL:HA	2:M:506:ASN:O	1.90	0.72
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.72	0.72
2:C:158:TYR:HB2	9:C:1570:HOH:O	1.89	0.72
5:F:388:ALA:HB3	9:F:553:HOH:O	1.89	0.72
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.71	0.72
3:N:723:GLY:HA3	9:N:9632:HOH:O	1.90	0.72
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.72	0.71
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.70	0.71
2:M:72:ARG:HH21	2:M:112:GLU:HG3	1.54	0.71
2:C:1000:MET:HB3	2:C:1002:GLU:HG3	1.71	0.71
9:C:1389:HOH:O	3:D:630:VAL:HG23	1.89	0.71
3:N:808:THR:HB	3:N:809:PRO:HD3	1.73	0.71
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.72	0.71
2:M:139:GLN:NE2	2:M:334:ARG:HH11	1.87	0.71
3:N:1189:ARG:CZ	3:N:1203:LYS:HB2	2.20	0.71
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.05	0.71
2:M:1030:GLN:HB2	3:N:626:SER:HB2	1.70	0.71
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.90	0.71
3:N:142:LEU:HD11	9:N:9710:HOH:O	1.89	0.71
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.72	0.71
1:L:95:GLN:H	1:L:95:GLN:HE21	1.38	0.71
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.73	0.71
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.72	0.71
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.71	0.71
3:N:158:TYR:HA	9:N:9313:HOH:O	1.89	0.71
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.73	0.71
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.71	0.71
1:K:27:PRO:HB2	9:K:4607:HOH:O	1.90	0.71
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.71	0.71
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.70	0.71
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.20	0.71
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.04	0.71
5:P:164:LYS:HA	5:P:171:LYS:HE2	1.71	0.71
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.72	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.36	0.71
5:F:100:VAL:HG21	9:F:478:HOH:O	1.89	0.71
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.04	0.71
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.73	0.71
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.90	0.71
2:M:755:LEU:HB2	2:M:790:LEU:HD23	1.73	0.71
3:N:400:VAL:HG11	3:N:441:ARG:NH1	2.06	0.71
5:P:312:GLN:HB2	9:P:4816:HOH:O	1.90	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.05	0.71
3:D:1321:ALA:O	3:D:1339:LYS:HD3	1.91	0.71
2:M:399:ASN:O	2:M:402:SER:HB3	1.90	0.71
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.25	0.71
1:B:103:ALA:HB1	1:B:107:LYS:HE3	1.73	0.71
1:A:219:ARG:HH22	1:B:223:THR:HG22	1.53	0.71
2:M:144:PRO:HB3	9:M:1138:HOH:O	1.91	0.71
2:C:346:VAL:O	2:C:350:ARG:HG3	1.91	0.71
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.71	0.71
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.90	0.71
2:C:186:VAL:HG23	2:C:187:ASN:H	1.54	0.71
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.71	0.71
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.55	0.71
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.71	0.71
3:D:1047:LYS:HZ1	3:D:1053:PHE:HA	1.55	0.71
2:M:786:LYS:HA	9:M:1196:HOH:O	1.91	0.71
2:M:146:VAL:HG11	2:M:306:THR:HG22	1.71	0.70
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.71	0.70
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.06	0.70
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.73	0.70
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.70	0.70
1:A:53:VAL:HG23	9:A:481:HOH:O	1.90	0.70
2:M:17:PRO:O	2:M:20:GLU:HB2	1.90	0.70
5:P:393:THR:HG22	5:P:394:ARG:H	1.56	0.70
2:M:136:ILE:HD13	2:M:392:SER:HB2	1.72	0.70
3:D:449:SER:HB2	9:D:9007:HOH:O	1.90	0.70
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.26	0.70
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.73	0.70
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.72	0.70
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.73	0.70
2:C:329:GLY:H	2:C:488:ALA:HB3	1.53	0.70
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.55	0.70
2:M:741:GLY:HA3	9:M:1428:HOH:O	1.90	0.70
3:D:877:PRO:HA	9:D:9080:HOH:O	1.90	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:820:ARG:HB2	9:M:1453:HOH:O	1.91	0.70
2:M:707:ARG:HH21	2:M:709:GLU:HB2	1.55	0.70
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.54	0.70
1:K:226:SER:O	1:K:228:PRO:HD3	1.91	0.70
2:C:352:ALA:O	2:C:356:ARG:HG3	1.91	0.70
2:C:308:ARG:HH12	2:C:309:TYR:HD1	1.39	0.70
1:K:83:LYS:HE3	1:K:167:VAL:HG12	1.72	0.70
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.73	0.70
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.73	0.70
2:C:313:LEU:HA	2:C:321:GLU:HG3	1.73	0.70
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.90	0.70
2:M:876:VAL:HA	9:M:1223:HOH:O	1.92	0.70
3:D:194:GLY:H	3:D:206:ARG:HA	1.56	0.70
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.74	0.70
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.73	0.70
2:C:478:VAL:HA	2:C:506:ASN:O	1.92	0.70
4:E:87:LYS:NZ	4:E:91:ARG:HE	1.88	0.70
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.90	0.70
3:N:559:ALA:HA	9:P:4209:HOH:O	1.91	0.70
3:D:1099:VAL:HG13	3:D:1223:ILE:HD11	1.73	0.70
2:C:804:VAL:HG22	9:C:1991:HOH:O	1.92	0.70
2:M:710:ILE:HB	2:M:790:LEU:HD13	1.74	0.70
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.74	0.70
3:N:810:GLU:O	3:N:813:LEU:HG	1.92	0.70
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.56	0.70
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.74	0.70
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.22	0.70
9:N:9045:HOH:O	4:O:84:ARG:HG2	1.91	0.70
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.71	0.70
3:N:430:ASP:HB3	9:N:9129:HOH:O	1.92	0.70
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.74	0.69
3:N:124:GLU:HB2	9:N:2068:HOH:O	1.90	0.69
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.74	0.69
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.73	0.69
3:N:561:GLY:HA3	5:P:184:ARG:HH22	1.57	0.69
3:N:850:LEU:H	3:N:850:LEU:HD12	1.56	0.69
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.73	0.69
2:M:357:GLU:HG3	9:M:1526:HOH:O	1.92	0.69
2:C:231:PRO:HB3	9:C:1979:HOH:O	1.91	0.69
2:C:1050:GLN:HA	9:D:9467:HOH:O	1.92	0.69
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.56	0.69
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.57	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1090:LYS:HE2	3:N:88:TYR:O	1.91	0.69
2:C:432:ARG:HH12	3:D:1047:LYS:HG2	1.56	0.69
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.28	0.69
3:N:866:VAL:HG11	9:N:9036:HOH:O	1.93	0.69
3:D:1267:ARG:HB2	3:D:1267:ARG:HH11	1.56	0.69
5:P:76:SER:O	5:P:80:PRO:HD2	1.92	0.69
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.74	0.69
3:N:470:LEU:HG	3:N:508:ARG:HH21	1.57	0.69
5:P:168:LYS:HG3	9:P:5800:HOH:O	1.92	0.69
1:K:24:VAL:HG22	1:K:196:THR:HB	1.73	0.69
2:C:939:ARG:HG3	9:C:1124:HOH:O	1.90	0.69
3:N:1068:LEU:O	3:N:1072:ILE:HG12	1.92	0.69
2:C:108:ILE:HB	2:C:368:THR:OG1	1.92	0.69
2:C:325:ILE:HG21	9:C:1414:HOH:O	1.91	0.69
5:F:363:GLU:O	5:F:367:MET:HG2	1.92	0.69
9:M:2105:HOH:O	5:P:409:LYS:HB2	1.93	0.69
2:M:724:ARG:HG3	2:M:741:GLY:H	1.58	0.69
3:N:1115:THR:HG22	9:N:9343:HOH:O	1.93	0.69
3:N:1156:LEU:HB3	9:N:9178:HOH:O	1.92	0.69
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.75	0.69
3:N:1192:LEU:HD12	3:N:1346:ARG:HH22	1.56	0.69
3:D:65:ARG:HB3	9:D:9625:HOH:O	1.91	0.69
3:N:400:VAL:HG12	3:N:401:TYR:HD1	1.58	0.69
3:N:488:ARG:HH11	3:N:488:ARG:HB3	1.58	0.69
3:D:1376:MET:HG2	9:D:9649:HOH:O	1.92	0.69
2:M:736:ASP:O	2:M:744:ARG:HG2	1.92	0.69
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.74	0.69
2:M:186:VAL:HG23	2:M:187:ASN:H	1.57	0.69
3:N:28:LYS:HB2	3:N:41:ARG:NH1	2.07	0.69
5:P:321:ILE:HG22	5:P:322:GLY:H	1.57	0.69
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.58	0.69
3:D:15:PRO:HB2	9:D:9069:HOH:O	1.92	0.69
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.75	0.69
3:N:206:ARG:O	3:N:206:ARG:HD3	1.92	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.75	0.69
1:B:36:LEU:O	1:B:39:PRO:HD2	1.93	0.69
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.55	0.69
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.57	0.69
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.31	0.69
2:C:1062:GLY:HA2	9:C:1248:HOH:O	1.93	0.69
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.73	0.69
1:B:77:GLU:HB3	9:B:475:HOH:O	1.92	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.74	0.69
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.74	0.69
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.73	0.69
2:M:802:ARG:HB3	9:M:1993:HOH:O	1.91	0.69
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.57	0.69
3:N:1098:LEU:HD23	3:N:1226:ALA:HA	1.73	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.22	0.69
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.73	0.69
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.74	0.69
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.74	0.69
3:D:1132:LEU:HA	9:D:2445:HOH:O	1.92	0.69
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.58	0.69
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.07	0.69
2:M:1015:LEU:HA	5:P:335:ASP:HB3	1.75	0.69
2:C:841:ASN:HD22	2:C:843:HIS:H	1.39	0.69
3:D:1314:LYS:HB2	9:D:9368:HOH:O	1.93	0.69
3:N:1402:ALA:HB3	9:N:9219:HOH:O	1.93	0.69
5:P:303:ARG:HD2	9:P:4749:HOH:O	1.93	0.69
2:M:35:PRO:HD2	2:M:38:LYS:HG3	1.73	0.69
2:M:346:VAL:O	2:M:350:ARG:HG2	1.92	0.69
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.75	0.69
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.28	0.69
3:N:194:GLY:H	3:N:206:ARG:HA	1.57	0.69
3:N:1087:ARG:HD2	3:N:1234:THR:O	1.93	0.69
1:K:206:THR:HG23	1:K:209:GLU:HB2	1.74	0.69
2:C:676:ILE:HG23	3:D:948:THR:HB	1.75	0.68
2:C:758:ARG:HB3	2:C:788:THR:O	1.93	0.68
3:N:1020:LEU:HB3	9:N:9262:HOH:O	1.93	0.68
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.74	0.68
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.28	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.74	0.68
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.08	0.68
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.74	0.68
2:C:1080:SER:HA	9:C:1199:HOH:O	1.93	0.68
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.75	0.68
2:M:157:ARG:HG3	9:M:1827:HOH:O	1.93	0.68
3:N:619:LEU:HB2	9:N:9336:HOH:O	1.91	0.68
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.56	0.68
3:D:1410:GLU:HA	9:D:2415:HOH:O	1.93	0.68
2:M:412:ALA:HB1	2:M:419:THR:HG23	1.74	0.68
3:D:119:SER:HB2	3:D:123:LEU:N	2.05	0.68
2:C:329:GLY:N	2:C:488:ALA:HB3	2.08	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:704:ARG:HE	3:D:705:ALA:H	1.42	0.68
3:D:1354:LYS:HD2	9:D:9073:HOH:O	1.92	0.68
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.08	0.68
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.75	0.68
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.92	0.68
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.76	0.68
3:N:478:LEU:HD22	3:N:1388:ARG:HH21	1.59	0.68
3:N:1287:GLU:HA	9:N:9009:HOH:O	1.93	0.68
2:C:421:GLU:HA	9:C:1472:HOH:O	1.92	0.68
5:F:392:VAL:HG11	5:F:396:ARG:HE	1.58	0.68
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.75	0.68
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.75	0.68
3:D:1197:ARG:HG3	9:D:9004:HOH:O	1.92	0.68
3:N:804:LEU:HB2	3:N:830:ALA:O	1.94	0.68
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.74	0.68
3:N:838:ARG:HD3	3:N:865:THR:HG23	1.75	0.68
3:N:1492:LEU:HA	9:N:9942:HOH:O	1.92	0.68
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.93	0.68
3:N:846:PRO:HA	9:N:9036:HOH:O	1.93	0.68
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.28	0.68
3:D:1487:VAL:HG11	3:D:1492:LEU:HG	1.74	0.68
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.76	0.68
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.76	0.68
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.74	0.68
3:N:761:ILE:HG21	9:O:5032:HOH:O	1.94	0.68
2:M:780:GLU:HG3	2:M:781:LYS:H	1.58	0.68
3:D:469:ASP:HA	9:D:9515:HOH:O	1.93	0.68
2:C:1104:GLU:HA	3:D:6:ARG:HD2	1.76	0.68
3:D:598:ARG:NH1	3:D:598:ARG:HG2	2.09	0.68
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.28	0.68
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.74	0.68
3:D:1299:PHE:HB2	9:D:9155:HOH:O	1.93	0.68
3:D:67:ARG:HD3	9:D:2035:HOH:O	1.94	0.68
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.76	0.68
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.59	0.68
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.76	0.68
3:D:478:LEU:HA	9:D:9267:HOH:O	1.94	0.68
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.29	0.68
3:D:889:ALA:O	3:D:929:ARG:HD2	1.93	0.68
5:F:78:SER:HA	9:F:735:HOH:O	1.93	0.68
1:L:110:LYS:HG3	9:L:6714:HOH:O	1.93	0.68
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.75	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1478:SER:O	3:D:1482:ARG:HG3	1.94	0.68
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.75	0.68
3:D:78:VAL:HG23	9:D:2450:HOH:O	1.93	0.68
5:P:401:GLU:O	5:P:405:LEU:HB2	1.92	0.68
2:M:412:ALA:HB3	2:M:451:LEU:HB3	1.75	0.68
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	1.94	0.68
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.74	0.68
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.76	0.68
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.74	0.68
2:C:428:ARG:HD3	2:C:450:GLY:H	1.58	0.68
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.09	0.68
2:M:913:GLU:O	2:M:916:GLU:HB3	1.94	0.68
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.68
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.75	0.68
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.76	0.68
2:C:41:ASN:H	2:C:41:ASN:ND2	1.92	0.68
3:D:172:PRO:HD2	3:D:389:GLU:O	1.93	0.68
3:D:139:GLY:O	3:D:147:VAL:HB	1.94	0.68
9:C:1170:HOH:O	3:D:648:MET:HE3	1.94	0.68
2:M:525:SER:H	2:M:528:GLU:HG3	1.59	0.68
2:C:1015:LEU:HA	9:C:1234:HOH:O	1.93	0.68
1:B:99:LEU:HD12	1:B:114:PHE:HB3	1.76	0.68
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.75	0.67
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.74	0.67
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.59	0.67
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.76	0.67
3:N:658:LEU:HA	3:N:661:MET:HE3	1.76	0.67
5:P:155:THR:HA	9:P:3694:HOH:O	1.92	0.67
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.75	0.67
5:F:314:PRO:HD2	9:F:481:HOH:O	1.93	0.67
3:D:728:LEU:HD22	3:D:745:MET:SD	2.34	0.67
5:F:94:LEU:HD23	5:F:96:LEU:H	1.59	0.67
3:D:854:ALA:HB3	9:D:9283:HOH:O	1.94	0.67
3:D:1316:GLY:HA3	9:D:9350:HOH:O	1.92	0.67
3:N:622:ARG:HD2	9:P:5569:HOH:O	1.93	0.67
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.76	0.67
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.76	0.67
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.75	0.67
3:D:145:VAL:HB	9:D:2447:HOH:O	1.93	0.67
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.75	0.67
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.76	0.67
3:D:386:HIS:HA	9:D:2147:HOH:O	1.94	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:432:ARG:HH11	3:N:1048:PRO:HG2	1.58	0.67
3:D:1306:PRO:HB3	3:D:1307:LYS:HE3	1.76	0.67
5:F:215:GLU:HB2	9:F:482:HOH:O	1.95	0.67
3:D:195:VAL:HG13	9:D:9209:HOH:O	1.94	0.67
3:D:554:LEU:HD22	9:D:9564:HOH:O	1.94	0.67
2:C:1000:MET:SD	2:C:1001:VAL:HG22	2.34	0.67
2:C:511:GLU:O	2:C:526:PRO:HD3	1.94	0.67
3:D:978:TYR:HE1	3:D:985:ASP:HA	1.60	0.67
1:A:100:LEU:HD11	9:A:408:HOH:O	1.94	0.67
2:C:379:GLU:HG3	2:C:383:ARG:HH12	1.60	0.67
3:D:1324:PRO:HA	9:D:9450:HOH:O	1.94	0.67
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.76	0.67
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.10	0.67
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.25	0.67
2:C:71:TYR:HB2	9:C:1203:HOH:O	1.93	0.67
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.22	0.67
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.76	0.67
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.25	0.67
2:C:712:ALA:O	2:C:820:ARG:HB3	1.94	0.67
3:N:1409:ALA:HB1	9:N:9241:HOH:O	1.94	0.67
1:A:130:ALA:HB1	9:A:328:HOH:O	1.92	0.67
2:C:420:ARG:HD2	2:C:420:ARG:H	1.59	0.67
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.20	0.67
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.76	0.67
3:D:676:MET:HG3	9:D:9271:HOH:O	1.92	0.67
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.75	0.67
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.75	0.67
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.76	0.67
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.76	0.67
3:N:690:ALA:O	3:N:694:VAL:HG23	1.95	0.67
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.25	0.67
4:E:36:LYS:HB3	9:E:130:HOH:O	1.95	0.67
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.58	0.67
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.76	0.67
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.18	0.67
3:D:667:ALA:HB2	9:D:9271:HOH:O	1.93	0.67
5:P:138:SER:H	5:P:140:ARG:CZ	2.08	0.67
3:N:381:ALA:HA	9:N:2123:HOH:O	1.93	0.67
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.76	0.67
1:L:168:ASP:HA	9:L:6431:HOH:O	1.94	0.67
1:B:30:ARG:HE	2:C:854:PRO:HG3	1.59	0.67
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.77	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:265:ARG:HG2	2:M:266:ARG:N	2.10	0.67
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.24	0.67
3:D:1498:ALA:HB1	9:E:165:HOH:O	1.94	0.67
2:C:145:GLY:O	2:C:163:ILE:HG23	1.94	0.67
3:D:486:ARG:HH21	3:D:489:ARG:NH2	1.92	0.67
5:P:208:SER:HB2	5:P:211:ASP:CG	2.14	0.67
2:M:177:GLU:HB2	9:M:1718:HOH:O	1.95	0.67
1:L:46:SER:HB2	9:L:4292:HOH:O	1.95	0.67
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.59	0.67
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.10	0.67
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.77	0.66
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.77	0.66
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.60	0.66
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.94	0.66
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.75	0.66
5:P:138:SER:H	5:P:140:ARG:NH2	1.93	0.66
2:M:42:VAL:HG12	2:M:43:GLY:H	1.60	0.66
3:D:500:ARG:HG3	9:D:2428:HOH:O	1.94	0.66
2:M:162:ILE:HB	2:M:172:ILE:HB	1.76	0.66
2:M:140:ILE:HA	2:M:332:ARG:O	1.95	0.66
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.77	0.66
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.24	0.66
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.30	0.66
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.77	0.66
2:C:586:ARG:HD3	9:C:1768:HOH:O	1.94	0.66
3:N:416:ALA:HB2	9:N:2085:HOH:O	1.94	0.66
2:C:470:PRO:HG2	2:C:538:GLN:OE1	1.96	0.66
5:F:363:GLU:HA	5:F:367:MET:HE2	1.75	0.66
5:P:151:LEU:HD13	5:P:154:LYS:HB3	1.75	0.66
3:N:828:LYS:HD2	9:N:9243:HOH:O	1.95	0.66
3:D:544:TYR:O	3:D:548:ILE:HG12	1.94	0.66
3:D:824:ASN:HB3	9:D:9067:HOH:O	1.96	0.66
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.60	0.66
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.10	0.66
3:N:983:LEU:HA	9:N:9324:HOH:O	1.95	0.66
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.26	0.66
5:F:363:GLU:HA	5:F:367:MET:CE	2.26	0.66
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.77	0.66
2:C:500:ASN:HB2	9:C:1931:HOH:O	1.95	0.66
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.78	0.66
4:E:87:LYS:HZ2	4:E:91:ARG:HH21	1.42	0.66
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.75	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:233:LYS:HA	9:D:9066:HOH:O	1.96	0.66
2:M:492:ASP:HB3	2:M:518:LYS:HD3	1.76	0.66
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.77	0.66
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.77	0.66
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.77	0.66
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.78	0.66
2:M:262:ALA:HB3	9:M:1344:HOH:O	1.96	0.66
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.78	0.66
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.78	0.66
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.16	0.66
2:M:453:THR:HA	9:M:1130:HOH:O	1.94	0.66
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.26	0.66
2:M:773:LEU:O	2:M:777:ILE:HG13	1.96	0.66
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.59	0.66
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.60	0.66
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.76	0.66
1:A:30:ARG:HH11	1:A:191:ASP:HB2	1.58	0.66
5:P:350:LEU:HD23	5:P:351:SER:N	2.11	0.66
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.78	0.66
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.60	0.66
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.78	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.76	0.66
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.08	0.66
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.77	0.66
1:L:20:TYR:OH	1:L:198:ARG:HD2	1.96	0.66
2:M:437:ARG:HB3	2:M:467:ILE:HB	1.77	0.66
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.78	0.66
2:C:1090:LYS:HZ2	3:D:90:MET:CG	2.09	0.66
3:D:572:ARG:HH21	5:F:83:GLN:NE2	1.94	0.66
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.78	0.66
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.59	0.66
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.31	0.66
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.78	0.66
1:L:178:ALA:HA	9:L:6698:HOH:O	1.96	0.66
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.07	0.66
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.78	0.66
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.25	0.66
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.31	0.66
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.76	0.66
2:C:12:VAL:HG12	2:C:13:ILE:HG23	1.77	0.66
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.78	0.66
2:C:276:LYS:HB3	9:C:1659:HOH:O	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:150:PRO:HG3	2:M:158:TYR:HD2	1.60	0.66
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.78	0.66
3:N:422:ALA:H	3:N:427:VAL:HG11	1.59	0.66
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.66
3:D:175:VAL:HG12	3:D:176:ASP:OD1	1.96	0.66
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.78	0.66
3:D:100:ALA:HA	9:D:2414:HOH:O	1.96	0.65
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.43	0.65
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.60	0.65
3:N:119:SER:H	3:N:123:LEU:HB2	1.61	0.65
1:A:143:ARG:HG3	1:A:144:VAL:N	2.10	0.65
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.65
1:A:46:SER:HB3	2:C:856:GLU:HG3	1.78	0.65
4:O:34:GLY:HA3	9:O:5632:HOH:O	1.96	0.65
1:L:99:LEU:HA	9:L:4894:HOH:O	1.95	0.65
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.77	0.65
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.79	0.65
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.78	0.65
3:D:1072:ILE:HA	3:D:1075:HIS:HD2	1.61	0.65
2:C:291:ALA:O	2:C:299:LYS:HE2	1.96	0.65
1:L:84:GLU:HB2	9:N:9385:HOH:O	1.94	0.65
1:K:58:ILE:HB	1:K:61:VAL:HB	1.78	0.65
3:D:980:MET:HE1	9:D:9118:HOH:O	1.96	0.65
2:C:588:VAL:HB	9:C:1450:HOH:O	1.96	0.65
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.10	0.65
3:D:1214:PRO:HB2	9:D:9171:HOH:O	1.96	0.65
1:B:27:PRO:O	1:B:28:LEU:HD23	1.97	0.65
1:A:156:HIS:HD2	1:A:157:GLY:H	1.43	0.65
2:C:605:LYS:HD3	2:C:612:VAL:HB	1.78	0.65
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.61	0.65
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.77	0.65
3:N:1403:LEU:HD23	3:N:1407:LEU:HD22	1.78	0.65
2:C:836:GLY:HA2	3:D:725:SER:OG	1.96	0.65
3:D:33:ASN:HB2	3:D:40:GLU:OE1	1.96	0.65
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.62	0.65
2:C:769:PRO:HA	9:F:832:HOH:O	1.94	0.65
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.77	0.65
3:N:699:VAL:H	3:N:756:GLN:HE22	1.42	0.65
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.79	0.65
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.79	0.65
2:M:1098:ASP:HB3	9:N:9038:HOH:O	1.95	0.65
3:N:474:GLU:O	3:N:478:LEU:HG	1.97	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:59:GLU:HG2	1:B:139:ASN:O	1.96	0.65
2:C:945:ARG:HB2	2:C:945:ARG:CZ	2.26	0.65
2:M:714:ASP:HB2	9:M:1453:HOH:O	1.97	0.65
3:D:1314:LYS:NZ	3:D:1317:ASP:H	1.94	0.65
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.79	0.65
1:K:161:ARG:HH11	1:K:161:ARG:HB2	1.60	0.65
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.79	0.65
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.78	0.65
3:N:73:CYS:HB2	9:N:9191:HOH:O	1.96	0.65
1:A:226:SER:O	1:A:228:PRO:HD3	1.95	0.65
2:M:431:HIS:CD2	2:M:433:THR:H	2.13	0.65
2:C:99:GLN:HG2	9:C:1321:HOH:O	1.95	0.65
3:D:1055:VAL:HG13	9:D:9713:HOH:O	1.96	0.65
2:C:717:LEU:HB3	9:C:2169:HOH:O	1.97	0.65
2:M:464:LEU:HG	9:M:1433:HOH:O	1.96	0.65
3:D:537:THR:C	5:F:317:LEU:HB2	2.17	0.65
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.26	0.65
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.78	0.65
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.12	0.65
3:N:1117:TYR:HD2	9:N:9343:HOH:O	1.79	0.65
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.31	0.65
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.32	0.65
3:D:36:THR:HB	3:D:38:LYS:HG3	1.78	0.65
1:B:123:MET:C	1:B:125:PRO:HD3	2.17	0.65
2:M:444:PRO:HA	9:M:2038:HOH:O	1.95	0.65
2:C:961:GLU:HG3	9:C:1815:HOH:O	1.97	0.65
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.77	0.65
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.27	0.65
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.11	0.65
2:M:428:ARG:NH1	6:N:8002:STD:C29	2.60	0.65
3:D:598:ARG:HH22	5:F:318:GLU:C	2.00	0.65
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.77	0.65
3:D:546:ARG:O	3:D:550:ARG:HG2	1.96	0.65
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.62	0.65
3:N:125:GLN:HE22	3:N:587:ARG:HE	1.44	0.65
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.79	0.65
4:O:78:ASN:HB3	9:O:3505:HOH:O	1.96	0.65
3:D:579:ASP:HB2	9:D:9169:HOH:O	1.96	0.65
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.31	0.65
1:L:7:LYS:HD2	9:L:3648:HOH:O	1.95	0.65
2:M:739:GLU:HB3	9:M:1183:HOH:O	1.96	0.65
3:D:704:ARG:NE	3:D:705:ALA:H	1.94	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:192:LEU:HD12	9:L:5714:HOH:O	1.97	0.65
3:N:455:ARG:HH12	3:N:463:GLN:HG3	1.62	0.65
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.32	0.65
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.62	0.65
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.26	0.65
2:M:289:THR:HB	9:M:1731:HOH:O	1.97	0.65
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.24	0.65
3:N:153:LEU:HD11	3:N:158:TYR:N	2.12	0.65
5:F:321:ILE:HB	5:F:327:SER:OG	1.95	0.65
5:F:317:LEU:O	5:F:329:TYR:HB3	1.97	0.65
1:K:67:THR:N	2:M:627:ARG:HH21	1.94	0.65
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.78	0.65
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.11	0.65
3:N:800:LYS:HE2	3:N:804:LEU:HD22	1.79	0.65
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.79	0.65
1:A:71:VAL:HG13	9:A:328:HOH:O	1.96	0.65
2:M:584:GLU:CD	2:M:584:GLU:H	1.99	0.65
9:C:1690:HOH:O	3:D:5:VAL:HA	1.94	0.65
1:B:129:ILE:HG12	9:B:474:HOH:O	1.95	0.65
3:D:1384:PRO:HG2	9:D:9535:HOH:O	1.97	0.65
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.79	0.65
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.62	0.65
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.27	0.65
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.31	0.65
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.31	0.65
3:D:531:ASP:H	3:D:534:ARG:HB2	1.62	0.65
2:C:701:THR:HG23	2:C:832:LYS:HG3	1.79	0.65
2:C:945:ARG:NH1	2:C:945:ARG:HB2	2.12	0.65
2:C:423:ALA:HB2	6:D:8001:STD:H10	1.77	0.65
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.12	0.65
1:B:3:ASP:HA	9:B:538:HOH:O	1.97	0.65
3:N:592:THR:HA	9:N:9335:HOH:O	1.95	0.65
3:N:1267:ARG:HH21	3:N:1271:LYS:HD2	1.62	0.65
2:M:192:PRO:HB3	9:M:1875:HOH:O	1.96	0.64
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.62	0.64
2:C:671:ASN:ND2	2:C:671:ASN:N	2.45	0.64
2:M:227:PHE:HA	2:M:230:ARG:NE	2.11	0.64
3:N:950:GLY:H	3:N:953:ASP:HB2	1.62	0.64
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.78	0.64
3:D:153:LEU:HD12	3:D:154:THR:N	2.12	0.64
2:C:926:PHE:O	2:C:930:LYS:HG3	1.95	0.64
2:C:198:ARG:NH2	2:C:204:GLN:H	1.96	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:139:GLN:O	2:M:333:ILE:HA	1.98	0.64
2:M:328:LEU:HD21	2:M:434:HIS:HA	1.80	0.64
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.12	0.64
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.78	0.64
3:D:1106:VAL:HG13	9:D:9516:HOH:O	1.96	0.64
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.79	0.64
3:D:394:LEU:HD13	9:D:9961:HOH:O	1.98	0.64
2:C:627:ARG:HG2	9:C:1542:HOH:O	1.96	0.64
2:C:301:GLU:HG2	9:C:1862:HOH:O	1.96	0.64
4:E:25:LYS:HA	4:E:28:GLN:HE21	1.63	0.64
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.80	0.64
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.32	0.64
1:A:76:VAL:HB	9:A:404:HOH:O	1.97	0.64
3:D:487:ALA:HB3	9:D:9146:HOH:O	1.97	0.64
3:N:984:THR:HG22	3:N:987:GLU:H	1.63	0.64
3:N:33:ASN:HB2	3:N:40:GLU:OE1	1.98	0.64
1:L:132:LEU:HB2	9:L:5877:HOH:O	1.97	0.64
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.78	0.64
2:C:664:GLY:HA2	9:C:1145:HOH:O	1.97	0.64
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.33	0.64
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.12	0.64
2:C:778:PHE:CZ	5:F:409:LYS:HB2	2.32	0.64
3:D:1474:ALA:HB1	9:D:9516:HOH:O	1.97	0.64
3:D:1264:GLU:OE1	3:D:1425:THR:HB	1.97	0.64
5:P:416:ARG:HH11	5:P:419:ARG:HB2	1.63	0.64
2:C:605:LYS:HE2	2:C:610:ARG:NH1	2.12	0.64
3:D:1132:LEU:HD12	9:D:2445:HOH:O	1.98	0.64
9:N:9881:HOH:O	4:O:5:GLY:HA2	1.96	0.64
2:M:779:GLY:HA3	9:M:1784:HOH:O	1.96	0.64
5:P:85:LEU:HD23	9:P:5610:HOH:O	1.97	0.64
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.80	0.64
1:L:107:LYS:HB2	9:L:4679:HOH:O	1.96	0.64
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.80	0.64
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.12	0.64
2:M:92:ALA:HB1	9:M:2075:HOH:O	1.96	0.64
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.79	0.64
3:N:367:ILE:HA	9:N:9641:HOH:O	1.98	0.64
5:F:395:GLU:O	5:F:399:GLN:HB2	1.97	0.64
1:K:20:TYR:HD2	1:K:21:GLY:H	1.45	0.64
3:D:379:ALA:HA	9:D:9392:HOH:O	1.98	0.64
2:C:505:GLY:HA3	9:C:1255:HOH:O	1.98	0.64
2:C:151:ASP:HB2	2:C:157:ARG:O	1.98	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.62	0.64
2:M:139:GLN:NE2	2:M:418:LEU:HD22	2.12	0.64
2:M:610:ARG:HB2	9:M:1533:HOH:O	1.97	0.64
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.64
2:M:650:ARG:HB2	9:M:1692:HOH:O	1.96	0.64
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.78	0.64
3:D:721:VAL:HA	9:D:2048:HOH:O	1.96	0.64
5:F:87:GLU:O	5:F:91:VAL:HG23	1.98	0.64
3:N:2:LYS:HB2	9:N:9354:HOH:O	1.98	0.64
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.61	0.64
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.80	0.64
5:P:128:ARG:HD2	9:P:4586:HOH:O	1.96	0.64
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.22	0.64
3:N:12:LEU:HD22	3:N:511:TRP:HB2	1.80	0.64
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.64
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.13	0.64
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.79	0.64
2:M:30:LEU:HB3	2:M:44:ILE:HD12	1.77	0.64
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.62	0.64
3:N:1109:GLU:HA	9:N:9975:HOH:O	1.97	0.64
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.27	0.64
3:N:119:SER:CB	3:N:123:LEU:HB2	2.28	0.64
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.78	0.64
2:M:1110:ASP:HA	9:M:1272:HOH:O	1.97	0.64
2:C:267:TYR:HB2	9:C:1724:HOH:O	1.98	0.64
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.17	0.64
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.79	0.64
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.80	0.64
2:M:285:LEU:O	2:M:285:LEU:HD23	1.98	0.64
1:A:54:THR:HG21	9:A:409:HOH:O	1.98	0.64
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.97	0.64
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.79	0.64
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.80	0.64
2:C:348:LEU:HD21	9:C:1976:HOH:O	1.97	0.64
1:L:58:ILE:HB	1:L:61:VAL:HB	1.80	0.64
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.80	0.64
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.33	0.64
3:N:179:VAL:HG22	3:N:389:GLU:HG3	1.80	0.64
5:F:398:ARG:HB2	9:F:818:HOH:O	1.97	0.64
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.33	0.64
2:M:674:VAL:HG21	2:M:871:LEU:HD12	1.80	0.64
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.14	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1267:ARG:HH11	3:N:1267:ARG:HB2	1.63	0.64
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.80	0.64
1:A:18:ARG:O	1:A:207:PRO:HD3	1.97	0.64
3:D:1406:ARG:HA	9:D:9761:HOH:O	1.98	0.63
2:C:437:ARG:HG2	2:C:467:ILE:HG22	1.80	0.63
3:N:1493:LYS:HB3	9:N:9467:HOH:O	1.96	0.63
3:N:1415:VAL:HG23	9:N:9100:HOH:O	1.97	0.63
3:D:448:GLU:HB3	9:D:9158:HOH:O	1.98	0.63
1:L:175:ARG:O	3:N:851:LEU:HD21	1.98	0.63
3:D:60:CYS:HA	9:D:2260:HOH:O	1.97	0.63
5:F:278:LEU:O	5:F:282:LEU:HG	1.98	0.63
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.63	0.63
3:N:726:ILE:HD11	9:N:9650:HOH:O	1.97	0.63
3:D:369:ALA:HB2	9:D:9232:HOH:O	1.99	0.63
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.63	0.63
5:P:87:GLU:O	5:P:91:VAL:HG23	1.97	0.63
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.27	0.63
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.28	0.63
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.81	0.63
3:D:1399:ASP:HA	9:D:2120:HOH:O	1.98	0.63
5:F:314:PRO:HB3	9:F:515:HOH:O	1.98	0.63
2:C:14:PRO:HD2	9:C:1805:HOH:O	1.98	0.63
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.81	0.63
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.33	0.63
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.80	0.63
3:D:956:ILE:HG12	3:D:1039:CYS:O	1.98	0.63
2:M:428:ARG:HD3	2:M:449:ILE:HG22	1.79	0.63
3:N:449:SER:HB2	9:N:9454:HOH:O	1.98	0.63
3:N:502:PHE:HZ	3:N:512:MET:HE2	1.63	0.63
2:M:151:ASP:HB2	2:M:157:ARG:O	1.98	0.63
2:M:528:GLU:HB3	9:M:1417:HOH:O	1.97	0.63
2:C:805:ARG:HG3	2:C:823:VAL:HG22	1.78	0.63
2:M:89:THR:O	2:M:91:GLN:HG3	1.99	0.63
1:K:78:ILE:O	1:K:82:LEU:HG	1.97	0.63
2:M:1068:GLU:OE1	5:P:345:ALA:HA	1.98	0.63
1:K:151:VAL:HG23	9:K:3798:HOH:O	1.97	0.63
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.80	0.63
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.80	0.63
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.79	0.63
3:N:119:SER:OG	3:N:123:LEU:HD12	1.98	0.63
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.99	0.63
1:K:120:VAL:HG13	9:K:7313:HOH:O	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:93:LEU:HG	5:F:190:ALA:CB	2.28	0.63
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.81	0.63
3:D:529:GLN:OE1	3:D:533:GLY:HA2	1.99	0.63
3:D:528:VAL:O	3:D:535:PHE:HA	1.99	0.63
4:O:95:GLY:HA3	9:O:5632:HOH:O	1.99	0.63
3:N:1458:GLU:HG2	9:N:9361:HOH:O	1.98	0.63
3:N:198:ARG:HA	9:N:9071:HOH:O	1.97	0.63
5:F:227:PHE:HA	9:F:638:HOH:O	1.98	0.63
3:N:877:PRO:O	3:N:880:ILE:HG22	1.98	0.63
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.79	0.63
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.14	0.63
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.80	0.63
3:D:1139:ASP:HB2	9:D:2265:HOH:O	1.98	0.63
9:N:9114:HOH:O	5:P:140:ARG:HB3	1.96	0.63
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.98	0.63
2:C:565:GLN:HG2	2:C:995:MET:HE1	1.81	0.63
2:C:276:LYS:O	2:C:280:LYS:HB2	1.99	0.63
3:N:1267:ARG:HH12	3:N:1331:ASP:HB2	1.63	0.63
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.62	0.63
3:D:1130:ARG:NH1	3:D:1130:ARG:HB2	2.14	0.63
4:E:72:ARG:HD3	9:E:186:HOH:O	1.98	0.63
2:C:162:ILE:O	2:C:164:PRO:HD3	1.99	0.63
5:P:102:LEU:O	5:P:106:VAL:HG23	1.99	0.63
1:A:11:PHE:HD1	1:A:25:LEU:HD13	1.63	0.63
2:M:378:LEU:HG	2:M:382:ILE:HD11	1.80	0.63
1:L:216:GLU:HB2	9:L:4700:HOH:O	1.99	0.63
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.34	0.63
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.80	0.63
2:C:627:ARG:HG3	2:C:628:PHE:H	1.64	0.63
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.29	0.63
2:M:710:ILE:HD11	2:M:758:ARG:HE	1.63	0.63
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	1.98	0.63
2:C:110:GLU:OE2	2:C:369:PRO:HG3	1.98	0.63
5:F:147:LEU:HG	9:F:845:HOH:O	1.99	0.63
2:M:1105:LYS:HG2	9:M:1472:HOH:O	1.97	0.63
2:M:532:MET:HG3	2:M:533:ASP:N	2.13	0.63
1:A:123:MET:O	1:A:125:PRO:HD3	1.99	0.63
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.81	0.63
5:P:131:VAL:O	5:P:135:ILE:HG22	1.99	0.63
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.29	0.63
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.63	0.63
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.99	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:536:ALA:HA	5:P:315:VAL:O	1.99	0.63
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.63
4:O:70:THR:HG21	4:O:72:ARG:NH2	2.13	0.63
2:C:588:VAL:HG21	2:C:664:GLY:O	1.99	0.63
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.29	0.62
2:C:937:ASP:O	2:C:941:VAL:HG23	1.99	0.62
4:O:48:MET:N	4:O:54:LEU:HB2	2.14	0.62
3:N:395:VAL:HG12	9:N:2032:HOH:O	1.99	0.62
4:O:51:LEU:HG	4:O:53:GLY:H	1.64	0.62
3:N:1122:LEU:O	3:N:1134:LEU:HD23	1.98	0.62
2:M:41:ASN:O	2:M:46:ALA:HB2	1.99	0.62
3:N:181:ASP:OD2	3:N:199:LEU:HB2	1.99	0.62
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.81	0.62
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.81	0.62
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.81	0.62
3:N:383:GLY:HA2	9:N:2057:HOH:O	1.98	0.62
2:M:332:ARG:HH21	2:M:464:LEU:HD11	1.64	0.62
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.80	0.62
2:C:676:ILE:O	2:C:676:ILE:HG23	2.00	0.62
2:C:3:ILE:HG23	9:C:1258:HOH:O	1.99	0.62
3:N:52:PRO:HB2	9:N:9016:HOH:O	1.98	0.62
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.65	0.62
3:N:1390:LEU:HB3	9:N:2333:HOH:O	1.98	0.62
4:O:54:LEU:HG	4:O:58:PRO:CG	2.29	0.62
3:D:637:LEU:HD12	3:D:641:GLN:OE1	1.99	0.62
2:C:587:VAL:HA	9:C:1272:HOH:O	1.98	0.62
3:D:459:GLU:HB3	9:D:9210:HOH:O	1.98	0.62
2:M:889:HIS:HE1	3:N:951:ILE:HB	1.64	0.62
1:K:36:LEU:O	1:K:39:PRO:HD2	2.00	0.62
3:N:131:LYS:CG	3:N:572:ARG:HH21	2.12	0.62
2:M:254:VAL:HG21	9:M:1618:HOH:O	1.99	0.62
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.09	0.62
2:M:546:LEU:O	2:M:546:LEU:HD23	1.99	0.62
3:D:1209:LEU:HD13	3:D:1211:MET:HE1	1.81	0.62
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.99	0.62
2:M:447:ALA:HB1	9:M:1423:HOH:O	1.97	0.62
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.62
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.34	0.62
2:C:172:ILE:HG23	9:C:1676:HOH:O	1.99	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.30	0.62
3:D:477:LEU:HD23	9:D:9334:HOH:O	1.99	0.62
3:N:587:ARG:HD2	9:N:9886:HOH:O	2.00	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:415:THR:O	5:P:417:LYS:HG3	1.99	0.62
2:C:62:GLY:O	2:C:103:LYS:HG3	1.99	0.62
2:C:120:LEU:HD11	9:C:2187:HOH:O	1.98	0.62
3:D:565:ILE:HD11	5:F:189:GLU:OE1	2.00	0.62
3:D:441:ARG:O	3:D:443:VAL:HG23	1.99	0.62
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.81	0.62
2:M:571:LEU:HG	2:M:700:TYR:HA	1.82	0.62
5:F:366:ALA:HB1	9:F:616:HOH:O	1.98	0.62
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.29	0.62
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.63	0.62
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.30	0.62
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.14	0.62
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.80	0.62
5:P:244:ARG:HH11	5:P:244:ARG:HG3	1.64	0.62
3:D:1423:GLY:HA2	9:D:9071:HOH:O	1.97	0.62
3:N:1500:LYS:HA	9:N:9743:HOH:O	2.00	0.62
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.80	0.62
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.81	0.62
1:B:153:ALA:HB3	9:B:402:HOH:O	1.99	0.62
3:N:192:ALA:HB3	9:N:9113:HOH:O	2.00	0.62
5:F:408:LEU:O	5:F:412:GLU:HG2	2.00	0.62
4:O:17:TYR:N	4:O:17:TYR:HD2	1.97	0.62
3:D:699:VAL:HG22	3:D:756:GLN:HE22	1.65	0.62
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.14	0.62
2:C:810:ASP:HB3	9:C:1294:HOH:O	2.00	0.62
2:M:64:LEU:HA	9:M:2181:HOH:O	2.00	0.62
3:N:404:GLU:HB3	3:N:414:ARG:HD2	1.82	0.62
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.82	0.62
3:N:538:SER:HB2	9:N:9315:HOH:O	1.99	0.62
2:M:196:LEU:O	2:M:200:LEU:HG	1.99	0.62
2:M:265:ARG:HG2	2:M:266:ARG:H	1.64	0.62
2:C:199:VAL:HG22	2:C:235:LEU:HG	1.81	0.62
1:B:38:ASN:OD1	2:C:979:THR:HA	1.99	0.62
5:F:117:SER:OG	5:F:124:PRO:HG3	2.00	0.62
1:L:70:GLY:HA2	9:L:5271:HOH:O	2.00	0.62
2:C:432:ARG:HH11	3:D:1048:PRO:HD3	1.63	0.62
2:M:44:ILE:HG22	9:M:1699:HOH:O	1.99	0.62
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.34	0.62
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.80	0.62
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.64	0.62
2:C:427:VAL:HG23	9:C:1138:HOH:O	1.98	0.62
2:M:166:PRO:HD3	2:M:265:ARG:HB2	1.82	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1090:LYS:HE3	3:N:90:MET:CG	2.30	0.62
3:D:131:LYS:HA	3:D:456:MET:HG3	1.81	0.62
1:L:208:LEU:HD23	9:L:4122:HOH:O	2.00	0.62
2:C:606:VAL:HG11	2:C:643:VAL:O	1.99	0.62
3:N:558:LEU:HB2	9:N:9146:HOH:O	2.00	0.62
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.81	0.62
2:M:916:GLU:HA	9:M:1386:HOH:O	1.99	0.62
1:L:19:GLU:HG3	1:L:201:THR:O	2.00	0.62
3:D:517:VAL:HG23	9:D:9427:HOH:O	1.98	0.62
2:C:510:ALA:HB3	9:C:2128:HOH:O	1.99	0.62
3:D:503:LEU:HB3	9:D:9451:HOH:O	2.00	0.62
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.82	0.62
2:M:286:SER:HB3	2:M:299:LYS:HE3	1.82	0.62
2:M:350:ARG:HD2	9:M:2100:HOH:O	2.00	0.62
2:M:976:ASP:CB	2:M:979:THR:HG22	2.30	0.62
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.81	0.62
2:C:42:VAL:HG12	2:C:43:GLY:H	1.65	0.62
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.30	0.62
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	1.81	0.62
3:N:1063:GLU:HG3	3:N:1064:GLY:N	2.15	0.62
2:M:62:GLY:O	2:M:103:LYS:HG3	1.99	0.62
1:L:123:MET:C	1:L:125:PRO:HD3	2.19	0.62
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.00	0.62
2:M:723:THR:HG21	9:M:1504:HOH:O	2.00	0.62
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.35	0.62
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.21	0.61
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.81	0.61
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.82	0.61
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.81	0.61
3:D:550:ARG:HD3	3:D:553:ARG:NH2	2.15	0.61
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.80	0.61
4:O:60:ALA:O	4:O:63:TRP:HB2	2.00	0.61
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.65	0.61
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.82	0.61
2:M:998:TYR:HE2	2:M:1000:MET:HG2	1.65	0.61
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.35	0.61
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.82	0.61
3:D:48:ARG:HB2	9:D:9499:HOH:O	2.00	0.61
3:D:675:ARG:O	3:D:678:GLU:HG2	2.00	0.61
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.64	0.61
3:D:422:ALA:H	3:D:427:VAL:HG11	1.65	0.61
1:A:20:TYR:CE2	1:A:22:GLU:HG3	2.35	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.81	0.61
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.81	0.61
2:C:254:VAL:HG22	2:C:258:TYR:HE1	1.64	0.61
1:A:25:LEU:HG	9:A:350:HOH:O	2.00	0.61
1:L:109:VAL:HG23	9:L:5877:HOH:O	1.99	0.61
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.30	0.61
2:M:534:VAL:HB	2:M:538:GLN:NE2	2.14	0.61
2:M:358:ARG:HH22	2:M:374:ASN:CB	2.13	0.61
2:C:515:ALA:HB3	9:C:1200:HOH:O	2.00	0.61
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.82	0.61
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.15	0.61
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.80	0.61
2:C:431:HIS:H	2:C:434:HIS:CE1	2.18	0.61
2:M:905:ILE:N	2:M:905:ILE:HD12	2.13	0.61
2:C:578:VAL:HA	2:C:900:ARG:HD2	1.81	0.61
4:O:17:TYR:CD2	4:O:17:TYR:N	2.68	0.61
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.30	0.61
2:M:245:GLY:HA3	9:M:1762:HOH:O	2.00	0.61
2:M:777:ILE:HG22	9:M:2105:HOH:O	1.99	0.61
3:N:441:ARG:O	3:N:443:VAL:HG23	2.00	0.61
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.65	0.61
3:D:928:ALA:HB2	9:D:9129:HOH:O	1.99	0.61
1:K:106:PRO:HD3	9:K:4436:HOH:O	1.99	0.61
2:C:437:ARG:NE	2:C:469:THR:HB	2.16	0.61
2:C:953:VAL:HB	2:C:962:GLN:HG2	1.82	0.61
3:N:536:ALA:HA	5:P:315:VAL:H	1.65	0.61
2:C:678:PRO:O	3:D:943:THR:HA	2.01	0.61
2:C:71:TYR:H	2:C:71:TYR:HD2	1.47	0.61
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.00	0.61
3:N:832:ARG:HA	9:N:2061:HOH:O	2.01	0.61
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.27	0.61
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.83	0.61
3:D:211:VAL:HG13	3:D:393:ILE:HG13	1.81	0.61
2:M:354:GLY:HA2	9:M:1526:HOH:O	1.98	0.61
3:D:477:LEU:HD13	3:D:492:ALA:O	2.01	0.61
2:M:583:LEU:O	2:M:587:VAL:HG23	2.00	0.61
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.31	0.61
2:M:291:ALA:HB2	9:M:1720:HOH:O	2.00	0.61
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.61
3:D:800:LYS:HG2	9:D:9141:HOH:O	2.00	0.61
3:N:28:LYS:HB3	3:N:41:ARG:HD2	1.82	0.61
1:B:52:ALA:HB2	1:B:170:VAL:O	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:168:THR:OG1	3:D:393:ILE:HB	2.01	0.61
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.16	0.61
2:C:432:ARG:HH12	3:D:1047:LYS:CG	2.14	0.61
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.81	0.61
1:K:226:SER:HA	9:K:5223:HOH:O	2.00	0.61
2:C:722:ILE:HG22	2:C:820:ARG:HH12	1.65	0.61
3:D:975:GLU:O	3:D:979:GLU:HG3	2.00	0.61
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.81	0.61
3:N:831:GLY:HA3	9:N:9026:HOH:O	2.00	0.61
2:C:1014:SER:OG	5:F:331:ASP:HA	2.01	0.61
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.01	0.61
2:C:750:LYS:HB2	3:D:681:ARG:NH2	2.16	0.61
1:A:158:ILE:HA	9:A:339:HOH:O	1.99	0.61
1:L:67:THR:HG22	1:L:74:ASP:OD1	2.00	0.61
2:C:716:LYS:HD3	9:C:1399:HOH:O	1.99	0.61
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.00	0.61
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.00	0.61
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.82	0.61
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.14	0.61
3:D:192:ALA:O	3:D:195:VAL:HG23	2.01	0.61
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.36	0.61
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.83	0.61
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.00	0.61
3:D:466:LYS:HG2	9:D:9178:HOH:O	2.00	0.61
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.81	0.61
1:L:136:GLY:HA2	9:L:5776:HOH:O	2.00	0.61
3:D:1318:TYR:HD1	3:D:1319:VAL:N	1.97	0.61
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.81	0.61
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.83	0.61
3:D:802:ALA:HB1	9:D:2302:HOH:O	2.01	0.61
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.61
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.31	0.60
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.66	0.60
2:C:1008:ARG:HE	2:C:1029:GLY:N	1.98	0.60
1:K:7:LYS:HE2	9:K:4607:HOH:O	2.00	0.60
2:M:429:ASP:HB3	3:N:1079:LYS:NZ	2.16	0.60
3:N:835:SER:HA	9:N:9026:HOH:O	2.01	0.60
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.83	0.60
1:B:62:LEU:H	1:B:62:LEU:HD12	1.65	0.60
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.81	0.60
2:C:535:SER:OG	2:C:538:GLN:HG2	2.01	0.60
3:D:399:ARG:HG3	9:D:9673:HOH:O	2.00	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1018:GLN:NE2	2:M:1060:ILE:HD11	2.14	0.60
2:C:944:LEU:HD21	2:C:963:LEU:HD22	1.84	0.60
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.82	0.60
3:D:149:LYS:HB3	9:D:9547:HOH:O	2.00	0.60
3:N:834:THR:HG22	3:N:838:ARG:HD2	1.83	0.60
3:D:178:LEU:HG	3:D:200:ASP:H	1.66	0.60
5:P:90:GLN:HA	5:P:90:GLN:HE21	1.65	0.60
2:M:281:LEU:HD12	2:M:309:TYR:HB2	1.82	0.60
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.83	0.60
5:F:220:LEU:O	5:F:224:VAL:HG23	2.01	0.60
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.30	0.60
4:O:45:ARG:HD2	4:O:47:LYS:HE3	1.84	0.60
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.30	0.60
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.66	0.60
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.84	0.60
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.83	0.60
3:D:545:ARG:NH2	5:F:257:THR:HA	2.16	0.60
3:D:510:GLU:O	3:D:513:ILE:HD12	2.00	0.60
2:C:54:ILE:HB	9:C:1122:HOH:O	2.01	0.60
2:M:573:ARG:HG3	2:M:698:ASP:O	2.00	0.60
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.49	0.60
3:N:546:ARG:HG3	9:N:9308:HOH:O	2.00	0.60
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.83	0.60
2:M:503:LEU:HB3	9:M:2107:HOH:O	2.01	0.60
3:D:1130:ARG:HB2	3:D:1130:ARG:HH11	1.65	0.60
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.82	0.60
1:K:62:LEU:H	1:K:62:LEU:HD12	1.66	0.60
2:C:9:ILE:HD11	9:C:1162:HOH:O	2.01	0.60
3:D:1287:GLU:HB2	9:D:9218:HOH:O	2.01	0.60
5:P:392:VAL:HA	9:P:5909:HOH:O	2.00	0.60
2:C:317:VAL:HG22	9:C:1726:HOH:O	2.01	0.60
3:N:60:CYS:HB3	9:N:2111:HOH:O	2.02	0.60
2:M:1035:MET:HG2	3:N:707:THR:O	2.02	0.60
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.37	0.60
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.32	0.60
2:M:905:ILE:H	2:M:905:ILE:CD1	2.01	0.60
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.31	0.60
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.82	0.60
3:N:420:VAL:HA	5:P:164:LYS:HD3	1.83	0.60
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.31	0.60
1:K:123:MET:O	1:K:125:PRO:HD3	2.01	0.60
3:N:814:ALA:HB2	9:N:9899:HOH:O	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:815:LEU:HB3	9:M:1820:HOH:O	2.01	0.60
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.82	0.60
3:D:1152:GLU:HB3	9:D:9312:HOH:O	2.01	0.60
2:C:181:VAL:HB	9:C:1469:HOH:O	2.01	0.60
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.01	0.60
1:K:175:ARG:HG2	9:K:4053:HOH:O	2.01	0.60
5:F:356:LYS:O	5:F:360:LYS:HG2	2.01	0.60
4:O:86:GLN:O	4:O:90:GLU:HG3	2.02	0.60
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.36	0.60
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.83	0.60
3:N:524:LEU:C	3:N:526:PRO:HD3	2.22	0.60
4:E:60:ALA:O	4:E:63:TRP:HB2	2.02	0.60
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	2.16	0.60
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.83	0.60
2:M:13:ILE:HG22	9:M:1164:HOH:O	2.01	0.60
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.82	0.60
2:M:157:ARG:CZ	2:M:157:ARG:HA	2.31	0.60
2:M:959:PRO:O	2:M:963:LEU:HD23	2.02	0.60
3:N:188:GLY:HA3	9:N:9221:HOH:O	2.00	0.60
2:M:127:PHE:HB3	9:M:1515:HOH:O	2.00	0.60
3:N:608:SER:HA	9:N:9404:HOH:O	2.02	0.60
5:P:94:LEU:HD22	5:P:97:GLU:HB2	1.81	0.60
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.28	0.60
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.84	0.60
3:N:57:GLU:HG3	3:N:64:LYS:HG2	1.83	0.60
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.35	0.60
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.16	0.60
2:C:254:VAL:O	2:C:257:VAL:HG23	2.01	0.60
3:N:783:ARG:HE	3:N:1029:ARG:HD2	1.67	0.60
1:A:208:LEU:HD13	9:B:442:HOH:O	2.01	0.60
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.82	0.60
2:M:56:GLU:HB3	9:M:1232:HOH:O	2.00	0.60
3:D:694:VAL:HG13	9:D:9037:HOH:O	2.02	0.60
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.84	0.60
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.84	0.60
2:M:423:ALA:HB2	6:N:8002:STD:H10	1.82	0.60
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.83	0.60
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.02	0.60
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.02	0.60
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.00	0.60
3:D:156:GLU:CD	3:D:156:GLU:H	2.05	0.60
5:P:151:LEU:HD22	5:P:153:PRO:HD2	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:2:LEU:HD12	1:B:3:ASP:N	2.17	0.60
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.17	0.60
3:N:1124:GLN:N	3:N:1133:ARG:O	2.33	0.60
3:N:961:LYS:HG2	9:N:9759:HOH:O	2.02	0.60
2:C:913:GLU:O	2:C:916:GLU:HB3	2.02	0.60
3:N:1441:GLN:NE2	3:N:1442:ASN:HB2	2.16	0.60
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.29	0.60
3:N:1101:VAL:HG21	3:N:1424:VAL:CG2	2.27	0.60
3:D:524:LEU:C	3:D:526:PRO:HD3	2.22	0.60
5:F:132:ARG:HD3	5:F:181:GLU:CD	2.23	0.60
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.84	0.60
2:C:901:TYR:HA	9:C:1258:HOH:O	2.02	0.60
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.84	0.60
5:P:321:ILE:HA	9:P:4225:HOH:O	2.01	0.60
2:C:599:GLU:HG3	9:C:1839:HOH:O	2.01	0.60
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.17	0.60
5:F:166:LEU:O	5:F:171:LYS:HB2	2.01	0.60
1:L:136:GLY:HA3	9:L:4988:HOH:O	2.00	0.60
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.02	0.60
1:K:158:ILE:HD11	9:K:4923:HOH:O	2.02	0.60
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.01	0.60
2:M:1005:MET:HE3	3:N:648:MET:HB2	1.82	0.60
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.02	0.60
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.82	0.60
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.83	0.60
5:F:352:GLU:O	5:F:356:LYS:HG3	2.02	0.60
5:F:420:ASP:O	5:F:422:LEU:HD23	2.02	0.60
1:B:228:PRO:O	1:B:229:GLN:HG3	2.02	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.82	0.60
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.15	0.60
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.84	0.60
2:M:546:LEU:HD22	2:M:565:GLN:HE22	1.66	0.60
3:N:817:GLU:O	3:N:821:VAL:HG23	2.02	0.60
2:M:411:SER:HA	2:M:452:ILE:HG23	1.83	0.60
2:C:263:ASP:HA	9:C:1161:HOH:O	2.00	0.60
3:D:662:GLU:HB3	9:D:9278:HOH:O	2.01	0.60
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.01	0.60
5:F:305:GLU:O	5:F:309:LYS:HG3	2.01	0.60
3:N:491:LYS:HB2	9:N:2246:HOH:O	2.02	0.60
2:C:483:VAL:HG23	9:C:1834:HOH:O	2.02	0.60
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.60
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.83	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.17	0.59
2:C:300:ASP:HB2	9:C:1479:HOH:O	2.01	0.59
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.17	0.59
3:D:396:VAL:HB	9:D:9961:HOH:O	1.99	0.59
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.67	0.59
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.84	0.59
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.83	0.59
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.67	0.59
2:M:114:PHE:HB2	9:M:1431:HOH:O	2.01	0.59
2:M:114:PHE:H	2:M:114:PHE:HD1	1.47	0.59
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.17	0.59
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.02	0.59
3:N:963:TYR:HD2	3:N:1002:LYS:HB3	1.67	0.59
3:N:628:ARG:HG2	3:N:744:GLN:NE2	2.17	0.59
2:M:113:VAL:HG12	9:M:1967:HOH:O	2.01	0.59
3:D:1260:ILE:HG21	9:D:9360:HOH:O	2.01	0.59
3:D:1118:ILE:HG21	3:D:1346:ARG:NH2	2.16	0.59
2:M:49:ARG:HB3	2:M:266:ARG:HH12	1.67	0.59
3:N:53:ILE:HG23	3:N:54:LYS:N	2.15	0.59
3:D:813:LEU:HD12	9:D:9578:HOH:O	2.02	0.59
9:N:9942:HOH:O	4:O:80:VAL:HG21	2.02	0.59
2:C:717:LEU:HD21	9:C:1599:HOH:O	2.02	0.59
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.32	0.59
1:A:191:ASP:O	1:A:192:LEU:HD23	2.02	0.59
1:A:41:ARG:HD3	9:C:1607:HOH:O	2.03	0.59
3:D:116:LEU:O	3:D:118:LEU:HG	2.01	0.59
2:C:342:ASP:O	2:C:346:VAL:HG23	2.02	0.59
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.99	0.59
2:C:605:LYS:HE2	2:C:610:ARG:HH12	1.67	0.59
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.32	0.59
2:C:113:VAL:HG12	9:C:1672:HOH:O	2.01	0.59
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.37	0.59
3:N:1289:LYS:HB2	9:N:9234:HOH:O	2.02	0.59
2:C:742:VAL:HG11	9:C:1692:HOH:O	2.02	0.59
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.84	0.59
5:F:151:LEU:HD11	9:F:834:HOH:O	2.02	0.59
2:M:498:GLN:O	2:M:501:THR:HG23	2.01	0.59
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.03	0.59
2:M:196:LEU:CD2	2:M:200:LEU:HD11	2.29	0.59
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.27	0.59
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.17	0.59
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.82	0.59
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.85	0.59
3:D:1112:CYS:HB3	3:D:1201:CYS:SG	2.42	0.59
2:C:102:HIS:HB2	2:C:106:GLY:O	2.03	0.59
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.83	0.59
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.84	0.59
5:P:158:GLU:HB2	9:P:3694:HOH:O	2.03	0.59
2:C:261:ILE:HD11	9:C:2158:HOH:O	2.02	0.59
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.37	0.59
3:D:822:ALA:HA	9:D:9977:HOH:O	2.02	0.59
5:F:351:SER:O	5:F:355:GLU:HB2	2.02	0.59
5:P:222:ARG:HA	9:P:3558:HOH:O	2.01	0.59
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.84	0.59
3:N:637:LEU:HD11	3:N:642:CYS:N	2.17	0.59
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.68	0.59
2:M:882:LEU:HD11	3:N:1038:LEU:HD22	1.84	0.59
1:B:58:ILE:HB	1:B:61:VAL:HB	1.85	0.59
3:N:1464:GLU:HG2	9:N:9277:HOH:O	2.03	0.59
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.18	0.59
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.03	0.59
2:M:257:VAL:HG11	9:M:1540:HOH:O	2.01	0.59
2:M:301:GLU:HG2	9:M:1719:HOH:O	2.03	0.59
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.83	0.59
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.84	0.59
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.83	0.59
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.03	0.59
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.68	0.59
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.49	0.59
2:C:1043:TYR:CE2	3:D:763:MET:HA	2.38	0.59
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.85	0.59
3:D:1381:VAL:HB	3:D:1389:LEU:O	2.02	0.59
2:C:690:ILE:HG12	2:C:694:LEU:HD12	1.83	0.59
3:N:1495:ILE:HG23	9:N:9045:HOH:O	2.02	0.59
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.33	0.59
3:D:67:ARG:HA	9:D:9049:HOH:O	2.02	0.59
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.83	0.59
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.16	0.59
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.85	0.59
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.84	0.59
2:C:640:ARG:NH1	2:C:642:ARG:HH22	2.00	0.59
1:A:36:LEU:O	1:A:39:PRO:HD2	2.03	0.59
3:D:1359:GLN:HB3	9:D:9147:HOH:O	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.85	0.59
2:C:49:ARG:NH1	2:C:49:ARG:HB2	2.12	0.59
2:C:959:PRO:O	2:C:963:LEU:HD23	2.03	0.59
1:A:206:THR:HG22	1:A:209:GLU:CG	2.32	0.59
3:D:530:VAL:N	3:D:534:ARG:O	2.31	0.59
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.32	0.59
1:A:145:ASP:HB3	9:A:453:HOH:O	2.01	0.59
3:D:663:GLU:HA	9:D:9822:HOH:O	2.02	0.59
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.18	0.59
2:M:140:ILE:HG23	2:M:333:ILE:HG13	1.85	0.59
3:D:537:THR:O	5:F:317:LEU:HB2	2.03	0.59
3:N:127:LEU:HD12	3:N:128:TYR:N	2.18	0.59
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.37	0.59
2:C:643:VAL:HB	9:C:1217:HOH:O	2.03	0.59
3:D:1063:GLU:HB3	9:D:9027:HOH:O	2.03	0.59
1:A:178:ALA:HB2	2:C:864:GLY:H	1.68	0.59
3:D:534:ARG:HG3	9:D:9100:HOH:O	2.03	0.59
3:N:440:VAL:HG13	9:N:9604:HOH:O	2.01	0.59
2:M:151:ASP:HB3	9:M:1442:HOH:O	2.03	0.59
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.38	0.59
5:F:138:SER:O	5:F:141:VAL:HG12	2.02	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
2:C:222:MET:HB3	9:C:1348:HOH:O	2.01	0.59
3:N:548:ILE:HG23	9:N:9055:HOH:O	2.01	0.59
3:N:62:LYS:NZ	3:N:75:ARG:HD2	2.18	0.59
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.03	0.59
2:C:244:PRO:CD	2:C:245:GLY:H	2.14	0.59
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.83	0.59
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.17	0.59
2:M:1104:GLU:HA	3:N:6:ARG:NH1	2.17	0.59
3:D:887:ALA:HB1	3:D:893:GLU:HG3	1.84	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
2:M:208:ALA:O	2:M:218:VAL:HG21	2.02	0.59
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.67	0.59
2:C:572:ILE:HG23	2:C:703:ILE:HD13	1.85	0.59
3:N:55:ASP:O	3:N:82:LYS:HA	2.03	0.59
2:M:537:LYS:HG3	2:M:905:ILE:HD11	1.85	0.59
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.03	0.59
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.85	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
1:K:88:ARG:NE	1:K:121:GLU:HG2	2.15	0.59
2:C:626:ARG:H	2:C:639:GLN:HE21	1.49	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:187:ASN:HB2	9:M:1971:HOH:O	2.03	0.59
3:D:536:ALA:HA	9:D:9452:HOH:O	2.03	0.59
3:N:1381:VAL:HG23	3:N:1391:GLU:O	2.03	0.59
1:A:207:PRO:HB2	9:A:444:HOH:O	2.03	0.59
3:D:369:ALA:HB3	9:D:9915:HOH:O	2.01	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.33	0.58
2:M:439:CYS:HB3	2:M:442:GLU:HB2	1.85	0.58
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.43	0.58
3:N:948:THR:O	3:N:1019:PRO:HG2	2.03	0.58
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.32	0.58
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.51	0.58
3:N:529:GLN:HA	9:N:9510:HOH:O	2.02	0.58
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.38	0.58
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.10	0.58
2:C:433:THR:HG21	2:C:488:ALA:CB	2.33	0.58
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.85	0.58
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.86	0.58
3:D:133:ILE:HG23	3:D:456:MET:SD	2.43	0.58
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.68	0.58
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.38	0.58
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.85	0.58
9:B:433:HOH:O	3:D:813:LEU:HD21	2.03	0.58
3:N:546:ARG:HA	9:N:9149:HOH:O	2.02	0.58
1:A:53:VAL:HG11	1:A:82:LEU:HD13	1.84	0.58
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.85	0.58
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.39	0.58
2:C:820:ARG:HB2	9:C:1318:HOH:O	2.02	0.58
1:K:20:TYR:HD2	1:K:21:GLY:N	2.01	0.58
3:D:235:ALA:HB3	9:D:2396:HOH:O	2.03	0.58
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.38	0.58
1:K:101:LEU:HG	1:K:114:PHE:HA	1.84	0.58
1:K:100:LEU:HD12	9:K:4767:HOH:O	2.02	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.58
3:N:875:THR:HG22	3:N:879:ARG:NE	2.17	0.58
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.67	0.58
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.85	0.58
3:N:783:ARG:HE	3:N:1029:ARG:CD	2.16	0.58
2:M:13:ILE:HB	9:M:1979:HOH:O	2.02	0.58
4:E:48:MET:CB	4:E:54:LEU:HB2	2.33	0.58
9:D:2009:HOH:O	5:F:147:LEU:HD11	2.02	0.58
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.66	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:17:LYS:HD3	9:D:9746:HOH:O	2.03	0.58
9:C:1615:HOH:O	5:F:354:LEU:HD21	2.03	0.58
2:M:716:LYS:HB2	9:M:1462:HOH:O	2.01	0.58
2:M:191:PHE:HB3	2:M:241:LEU:HD13	1.84	0.58
1:K:100:LEU:HB3	9:K:3995:HOH:O	2.01	0.58
2:C:235:LEU:HA	9:C:1222:HOH:O	2.03	0.58
2:M:141:HIS:HB3	2:M:418:LEU:HG	1.84	0.58
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.84	0.58
3:N:119:SER:N	3:N:123:LEU:HB2	2.17	0.58
3:D:598:ARG:HH11	3:D:598:ARG:HG2	1.67	0.58
1:B:212:ASN:O	1:B:215:VAL:HG22	2.03	0.58
3:N:1441:GLN:CD	3:N:1442:ASN:HB2	2.23	0.58
2:C:209:ARG:O	2:C:213:ALA:HB2	2.03	0.58
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.69	0.58
1:A:191:ASP:HA	9:A:327:HOH:O	2.03	0.58
5:P:181:GLU:O	5:P:184:ARG:HB3	2.03	0.58
3:D:804:LEU:HB2	3:D:830:ALA:O	2.04	0.58
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.19	0.58
2:C:332:ARG:HH22	2:C:338:GLU:CD	2.06	0.58
2:C:512:ARG:HB2	9:C:1379:HOH:O	2.04	0.58
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.86	0.58
2:C:137:VAL:HG22	2:C:391:LEU:O	2.02	0.58
2:C:440:PRO:HB2	3:D:1074:SER:HB3	1.84	0.58
3:D:699:VAL:N	3:D:756:GLN:HE22	2.00	0.58
3:D:813:LEU:O	3:D:817:GLU:HB2	2.03	0.58
2:M:1006:HIS:O	3:N:627:GLY:HA2	2.04	0.58
2:M:367:LEU:O	2:M:372:LEU:HD13	2.03	0.58
1:L:110:LYS:HD2	1:L:112:ARG:NH1	2.18	0.58
5:F:403:LYS:HB3	9:F:714:HOH:O	2.03	0.58
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.32	0.58
2:M:382:ILE:HD12	9:M:1347:HOH:O	2.03	0.58
2:M:294:GLU:HG3	9:M:1411:HOH:O	2.03	0.58
5:P:342:VAL:HG21	9:P:6462:HOH:O	2.01	0.58
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.85	0.58
5:F:250:ALA:HA	9:F:629:HOH:O	2.04	0.58
3:N:1342:GLU:CD	3:N:1342:GLU:H	2.07	0.58
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.85	0.58
3:N:1101:VAL:HG13	3:N:1428:ALA:HB2	1.85	0.58
3:D:542:ASP:O	3:D:546:ARG:HG2	2.04	0.58
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.86	0.58
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.86	0.58
5:P:271:LEU:HD23	5:P:291:ILE:HD11	1.86	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.39	0.58
4:O:42:PRO:HG3	9:O:4652:HOH:O	2.03	0.58
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.85	0.58
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.85	0.58
2:C:112:GLU:HG3	9:C:1263:HOH:O	2.03	0.58
9:C:1403:HOH:O	5:F:373:LYS:HB3	2.03	0.58
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.86	0.58
3:D:209:ARG:CZ	3:D:397:LYS:HG3	2.33	0.58
1:L:91:ASN:H	1:L:94:LEU:HD12	1.69	0.58
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.32	0.58
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.85	0.58
3:D:178:LEU:HD21	9:D:9048:HOH:O	2.03	0.58
3:D:965:GLU:O	3:D:968:ASP:HB2	2.04	0.58
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.85	0.58
2:C:441:VAL:HG13	2:C:559:LEU:HA	1.84	0.58
2:M:21:ILE:H	2:M:21:ILE:HD12	1.68	0.58
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.03	0.58
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.85	0.58
3:N:971:LEU:HG	3:N:975:GLU:OE2	2.01	0.58
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.84	0.58
3:D:204:LEU:HD12	9:D:2356:HOH:O	2.04	0.58
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.86	0.58
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.86	0.58
2:M:1054:THR:HG23	9:M:1191:HOH:O	2.03	0.58
3:N:119:SER:H	3:N:123:LEU:HD13	1.69	0.58
2:C:598:GLU:O	2:C:651:LYS:HG3	2.04	0.58
2:C:874:LEU:HD13	3:D:783:ARG:HB2	1.85	0.58
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.86	0.58
3:D:6:ARG:NH1	3:D:6:ARG:HB2	2.19	0.58
2:M:134:ARG:NH1	2:M:387:SER:HA	2.19	0.58
2:M:379:GLU:HA	9:M:1347:HOH:O	2.03	0.58
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.86	0.58
2:C:238:LEU:HB2	9:C:1222:HOH:O	2.02	0.58
5:F:247:ILE:HG12	9:F:482:HOH:O	2.04	0.58
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.84	0.58
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.85	0.58
5:P:317:LEU:O	5:P:329:TYR:HB3	2.04	0.58
2:M:1018:GLN:HG3	2:M:1060:ILE:HD13	1.84	0.58
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.34	0.58
3:N:555:LYS:HB3	9:P:6985:HOH:O	2.04	0.58
5:F:264:MET:HB3	9:F:624:HOH:O	2.03	0.58
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.86	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:850:LEU:HD12	3:D:850:LEU:H	1.69	0.58
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.68	0.58
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.84	0.58
2:M:1012:PRO:HB3	9:M:1930:HOH:O	2.03	0.58
2:M:484:VAL:HA	9:M:1294:HOH:O	2.04	0.58
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.86	0.58
3:N:120:ALA:HB1	9:N:9285:HOH:O	2.03	0.58
2:M:233:GLU:HG2	9:M:1408:HOH:O	2.04	0.58
1:A:101:LEU:HG	1:A:114:PHE:HA	1.86	0.58
3:D:924:MET:O	3:D:927:THR:HB	2.04	0.58
3:N:149:LYS:HA	9:N:9092:HOH:O	2.03	0.58
5:F:230:LYS:HB2	9:F:771:HOH:O	2.03	0.58
1:B:83:LYS:HE3	1:B:167:VAL:HG12	1.86	0.58
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.03	0.58
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.84	0.58
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.85	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.27	0.58
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.69	0.58
2:M:227:PHE:HD2	2:M:230:ARG:HH21	1.51	0.58
1:B:218:LEU:O	1:B:222:LEU:HG	2.03	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.04	0.58
2:M:889:HIS:CE1	3:N:951:ILE:HB	2.38	0.58
2:M:108:ILE:HD12	2:M:108:ILE:H	1.68	0.58
1:B:5:LYS:O	1:B:8:ALA:HB2	2.04	0.58
3:D:193:PRO:HD3	9:D:9827:HOH:O	2.03	0.58
1:K:186:LEU:HB3	1:K:192:LEU:HD11	1.86	0.58
9:K:4223:HOH:O	1:L:43:ILE:HD11	2.03	0.58
1:A:189:ARG:HB2	9:A:371:HOH:O	2.04	0.58
3:N:131:LYS:HD2	5:P:83:GLN:HE21	1.68	0.57
2:C:397:GLU:HG2	2:C:403:SER:HB3	1.84	0.57
2:C:503:LEU:HD13	2:C:507:ARG:O	2.04	0.57
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.69	0.57
5:P:120:THR:HG21	5:P:122:LEU:HD22	1.86	0.57
5:P:166:LEU:O	5:P:171:LYS:HB2	2.04	0.57
2:C:1031:ARG:HD3	3:D:619:LEU:CD2	2.34	0.57
3:N:1493:LYS:HA	3:N:1496:GLU:OE2	2.04	0.57
3:D:877:PRO:O	3:D:880:ILE:HG22	2.03	0.57
1:K:209:GLU:O	1:K:213:GLN:HG3	2.03	0.57
3:D:1307:LYS:CD	3:D:1307:LYS:H	2.17	0.57
3:D:527:MET:HB3	9:D:9990:HOH:O	2.04	0.57
3:N:106:LYS:HE2	9:N:9886:HOH:O	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:834:THR:HB	3:D:838:ARG:HB3	1.85	0.57
2:M:594:ALA:HB1	2:M:654:LEU:HD12	1.86	0.57
3:D:28:LYS:HG3	3:D:29:PRO:HD2	1.84	0.57
1:B:132:LEU:HD13	1:B:138:LEU:HD13	1.86	0.57
3:D:438:ASP:HB2	9:D:9161:HOH:O	2.04	0.57
3:N:685:ASP:HB3	9:N:9661:HOH:O	2.03	0.57
1:B:16:GLN:HB3	9:B:447:HOH:O	2.04	0.57
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.86	0.57
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.86	0.57
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.34	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.87	0.57
2:M:926:PHE:O	2:M:930:LYS:HG3	2.04	0.57
3:N:710:ARG:HH22	3:N:1210:SER:CB	2.17	0.57
1:K:88:ARG:HD2	1:K:88:ARG:O	2.04	0.57
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.19	0.57
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.04	0.57
3:N:911:LEU:O	3:N:915:VAL:HG23	2.04	0.57
3:D:1314:LYS:HZ3	3:D:1317:ASP:H	1.50	0.57
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.86	0.57
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.86	0.57
2:M:51:THR:OG1	2:M:348:LEU:HD23	2.03	0.57
4:O:23:VAL:HG21	4:O:65:MET:HG2	1.85	0.57
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.04	0.57
2:M:648:ARG:HG2	9:M:2052:HOH:O	2.03	0.57
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.19	0.57
3:N:197:SER:HA	9:N:9482:HOH:O	2.04	0.57
2:M:341:THR:O	2:M:345:ARG:HG2	2.04	0.57
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.44	0.57
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.86	0.57
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.20	0.57
3:D:560:GLN:HB2	9:F:762:HOH:O	2.04	0.57
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.34	0.57
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.20	0.57
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.39	0.57
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.35	0.57
5:P:409:LYS:HG3	5:P:410:TYR:N	2.19	0.57
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.85	0.57
2:C:257:VAL:HG12	2:C:263:ASP:OD1	2.04	0.57
1:A:127:LEU:HD12	1:A:128:HIS:N	2.18	0.57
2:C:666:LEU:HD23	2:C:668:LEU:HD11	1.84	0.57
2:M:881:ASN:H	2:M:881:ASN:HD22	1.51	0.57
1:L:176:ARG:NH2	3:N:884:ARG:HD3	2.19	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.85	0.57
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.05	0.57
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.33	0.57
5:F:198:ILE:HA	9:F:560:HOH:O	2.04	0.57
3:D:871:LYS:HD3	3:D:873:LEU:HD21	1.85	0.57
1:B:205:VAL:HG11	9:B:348:HOH:O	2.03	0.57
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.07	0.57
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.40	0.57
3:N:141:ILE:HB	9:N:9457:HOH:O	2.04	0.57
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.87	0.57
3:D:131:LYS:HE3	5:F:83:GLN:HE22	1.69	0.57
4:O:41:GLU:O	4:O:45:ARG:HG2	2.05	0.57
3:N:800:LYS:HG2	9:N:9126:HOH:O	2.04	0.57
1:A:59:GLU:CD	1:A:139:ASN:HD21	2.07	0.57
2:C:588:VAL:HG12	2:C:666:LEU:HD12	1.86	0.57
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.86	0.57
2:C:418:LEU:H	2:C:418:LEU:HD22	1.69	0.57
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.34	0.57
2:M:999:HIS:HB3	2:M:1003:ASP:OD1	2.05	0.57
2:C:1073:GLY:HA2	9:C:1177:HOH:O	2.04	0.57
1:L:16:GLN:HG3	9:L:6332:HOH:O	2.05	0.57
2:M:159:ILE:HD11	9:M:1995:HOH:O	2.03	0.57
3:N:712:GLY:C	3:N:713:ILE:HD12	2.24	0.57
3:N:183:GLU:O	3:N:186:VAL:HG12	2.04	0.57
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.90	0.57
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.86	0.57
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.84	0.57
2:C:338:GLU:O	2:C:341:THR:HG22	2.04	0.57
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.86	0.57
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.34	0.57
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.86	0.57
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.04	0.57
3:D:476:GLU:HG2	9:D:9334:HOH:O	2.05	0.57
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.39	0.57
3:N:455:ARG:NH1	3:N:463:GLN:HG3	2.19	0.57
5:P:290:GLU:HG3	9:P:5633:HOH:O	2.03	0.57
2:M:1051:GLU:HG3	2:M:1055:LEU:HD12	1.87	0.57
2:M:864:GLY:HA2	9:M:1403:HOH:O	2.04	0.57
5:F:105:LYS:HE3	9:F:642:HOH:O	2.05	0.57
2:C:924:VAL:HG23	9:C:1396:HOH:O	2.03	0.57
2:M:218:VAL:O	2:M:221:LEU:HG	2.05	0.57
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.28	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:313:LEU:HD13	2:C:321:GLU:O	2.03	0.57
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.70	0.57
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.17	0.57
2:C:342:ASP:HA	2:C:345:ARG:HG2	1.86	0.57
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.03	0.57
3:N:737:ASN:HA	9:N:9235:HOH:O	2.04	0.57
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.85	0.57
3:D:1061:PHE:HE1	3:D:1065:LEU:HD23	1.68	0.57
2:C:524:VAL:HB	9:C:1200:HOH:O	2.02	0.57
2:M:1085:PHE:HD2	3:N:1468:LEU:HA	1.69	0.57
5:F:403:LYS:HD2	9:F:436:HOH:O	2.05	0.57
2:C:89:THR:HA	2:C:129:ILE:O	2.05	0.57
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.04	0.57
4:O:69:LEU:O	4:O:69:LEU:HD23	2.03	0.57
2:C:732:ALA:HB3	9:C:1156:HOH:O	2.03	0.57
2:C:935:GLY:HA2	9:C:1635:HOH:O	2.04	0.57
1:K:127:LEU:HD12	1:K:128:HIS:N	2.20	0.57
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.39	0.57
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.06	0.57
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.87	0.57
3:D:525:ARG:HA	3:D:538:SER:HB3	1.87	0.57
1:K:219:ARG:HH22	1:L:223:THR:CG2	2.11	0.57
3:N:1111:ASP:HB2	3:N:1203:LYS:CG	2.32	0.57
2:C:1012:PRO:HG2	9:C:2108:HOH:O	2.05	0.57
5:P:361:LEU:HD23	5:P:362:SER:H	1.69	0.57
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.87	0.57
1:B:190:THR:HG22	9:B:367:HOH:O	2.04	0.57
4:E:26:ARG:HE	4:E:30:LEU:HD11	1.68	0.57
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.25	0.57
2:C:583:LEU:O	2:C:587:VAL:HG23	2.04	0.57
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.05	0.57
2:C:264:PRO:HB3	2:C:289:THR:CB	2.34	0.57
3:N:443:VAL:HG12	3:N:445:ARG:HD2	1.87	0.57
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.87	0.57
3:N:486:ARG:HG2	9:N:2235:HOH:O	2.04	0.57
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.87	0.57
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.69	0.57
4:O:72:ARG:HA	9:O:5797:HOH:O	2.05	0.57
1:B:30:ARG:HH11	1:B:30:ARG:HB2	1.70	0.57
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.35	0.57
4:O:32:ARG:HA	9:O:4513:HOH:O	2.05	0.57
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.87	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:53:ILE:HG12	3:D:53:ILE:O	2.03	0.57
5:F:401:GLU:O	5:F:405:LEU:HB2	2.04	0.57
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.86	0.57
1:K:67:THR:OG1	2:M:609:ASN:ND2	2.37	0.57
1:B:86:VAL:HA	9:B:479:HOH:O	2.04	0.57
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.34	0.57
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.20	0.57
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.87	0.57
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.86	0.57
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.85	0.57
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.70	0.57
2:C:661:SER:HB2	9:C:2008:HOH:O	2.04	0.57
3:D:420:VAL:HG23	9:D:9536:HOH:O	2.04	0.57
2:C:184:MET:HG2	9:C:1676:HOH:O	2.04	0.57
5:F:321:ILE:HG22	5:F:322:GLY:H	1.69	0.57
2:C:859:PRO:O	2:C:867:VAL:HG22	2.05	0.57
3:N:1019:PRO:O	3:N:1023:MET:HG3	2.05	0.57
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.85	0.57
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.19	0.57
2:M:397:GLU:HG3	2:M:633:GLN:NE2	2.20	0.57
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.70	0.57
3:D:141:ILE:HG12	3:D:449:SER:HA	1.86	0.57
4:O:39:VAL:HB	4:O:72:ARG:HD2	1.87	0.57
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.57
1:B:226:SER:HB3	9:B:512:HOH:O	2.04	0.57
5:F:115:LYS:HE2	5:F:118:GLU:OE2	2.04	0.57
5:F:142:ARG:CZ	5:F:150:THR:HG21	2.35	0.57
3:D:574:LEU:O	3:D:578:VAL:HG23	2.05	0.57
2:C:122:THR:HG21	9:C:1356:HOH:O	2.04	0.57
2:M:286:SER:CB	2:M:299:LYS:HE3	2.34	0.57
3:D:81:THR:HG22	3:D:82:LYS:H	1.70	0.57
3:D:598:ARG:HG3	3:D:599:PRO:N	2.20	0.57
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.05	0.57
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.05	0.57
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.35	0.57
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.33	0.57
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.70	0.57
1:K:88:ARG:HE	1:K:121:GLU:CG	2.15	0.57
2:C:906:PHE:HB2	9:C:1288:HOH:O	2.04	0.57
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.70	0.57
3:D:478:LEU:HD13	3:D:1388:ARG:HH22	1.68	0.57
2:M:810:ASP:HB2	9:M:1758:HOH:O	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:72:ARG:NH2	2:M:112:GLU:HG3	2.20	0.57
1:A:5:LYS:O	1:A:8:ALA:HB2	2.05	0.57
1:K:57:TYR:CE2	1:K:161:ARG:HD2	2.40	0.57
2:M:513:VAL:HG13	9:M:1395:HOH:O	2.05	0.57
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.87	0.57
2:M:162:ILE:O	2:M:164:PRO:HD3	2.04	0.56
3:N:625:TYR:O	3:N:749:VAL:HG23	2.04	0.56
2:C:773:LEU:O	2:C:777:ILE:HG13	2.05	0.56
2:C:971:LYS:HA	2:C:988:VAL:HA	1.87	0.56
3:D:210:ARG:HG3	3:D:398:ALA:H	1.70	0.56
1:B:206:THR:CG2	1:B:209:GLU:H	2.18	0.56
4:E:73:LEU:HG	9:E:100:HOH:O	2.03	0.56
5:F:171:LYS:HD2	5:F:174:LEU:HD12	1.86	0.56
2:M:676:ILE:O	2:M:676:ILE:HG23	2.05	0.56
3:D:714:GLN:HB2	3:D:736:PHE:HZ	1.69	0.56
1:L:28:LEU:O	1:L:192:LEU:HD23	2.05	0.56
4:E:48:MET:N	4:E:54:LEU:HB2	2.19	0.56
1:L:112:ARG:HH12	1:L:126:ASP:HA	1.69	0.56
4:O:61:GLU:O	4:O:65:MET:HE2	2.05	0.56
2:M:957:LYS:HG3	9:M:1885:HOH:O	2.05	0.56
2:M:984:GLU:O	3:N:946:GLY:HA3	2.04	0.56
2:C:644:VAL:HG11	9:C:1903:HOH:O	2.04	0.56
3:N:19:ARG:HB3	9:N:9131:HOH:O	2.04	0.56
2:M:281:LEU:CD1	2:M:306:THR:HA	2.34	0.56
2:C:146:VAL:HG13	2:C:161:SER:O	2.05	0.56
2:C:172:ILE:H	2:C:172:ILE:HD12	1.70	0.56
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.87	0.56
1:B:52:ALA:HB1	9:B:364:HOH:O	2.04	0.56
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.19	0.56
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.87	0.56
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.56
1:L:67:THR:HG23	9:L:5452:HOH:O	2.06	0.56
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.41	0.56
3:D:868:TYR:CG	3:D:869:MET:N	2.72	0.56
5:F:293:GLU:HG2	9:F:663:HOH:O	2.05	0.56
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.88	0.56
3:N:728:LEU:HD22	3:N:745:MET:SD	2.45	0.56
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.40	0.56
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.68	0.56
5:F:136:LEU:HD11	9:F:879:HOH:O	2.05	0.56
5:F:127:ILE:HG12	9:F:445:HOH:O	2.05	0.56
3:D:18:ILE:HG21	3:D:516:ALA:O	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:41:ASN:O	2:C:46:ALA:HB2	2.06	0.56
5:F:363:GLU:HG3	9:F:548:HOH:O	2.05	0.56
2:M:288:ARG:HB3	9:M:1410:HOH:O	2.05	0.56
1:A:206:THR:CG2	1:A:209:GLU:H	2.18	0.56
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.86	0.56
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.21	0.56
3:D:530:VAL:HB	3:D:534:ARG:CB	2.35	0.56
2:M:879:ARG:NH1	3:N:1029:ARG:HH12	2.02	0.56
3:D:1314:LYS:HD2	9:D:9848:HOH:O	2.03	0.56
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.87	0.56
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.05	0.56
3:N:8:VAL:HG23	9:N:9563:HOH:O	2.04	0.56
1:L:36:LEU:O	1:L:39:PRO:HD2	2.05	0.56
3:N:409:VAL:HG23	9:N:9521:HOH:O	2.06	0.56
2:M:145:GLY:O	2:M:163:ILE:HG23	2.06	0.56
5:P:132:ARG:NE	5:P:184:ARG:HH12	2.04	0.56
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.87	0.56
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.05	0.56
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.86	0.56
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.41	0.56
1:B:139:ASN:HB2	9:B:334:HOH:O	2.06	0.56
3:D:817:GLU:O	3:D:821:VAL:HG23	2.05	0.56
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.21	0.56
2:M:89:THR:HA	2:M:129:ILE:O	2.06	0.56
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.87	0.56
5:P:292:ALA:HB1	5:P:299:TRP:O	2.06	0.56
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.05	0.56
2:M:262:ALA:HA	9:M:1860:HOH:O	2.06	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.04	0.56
3:D:462:GLN:HG2	9:D:9526:HOH:O	2.06	0.56
1:B:144:VAL:HG12	9:B:467:HOH:O	2.05	0.56
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.87	0.56
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.87	0.56
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.87	0.56
2:C:338:GLU:HA	2:C:341:THR:HG22	1.88	0.56
2:C:941:VAL:HG22	9:C:1556:HOH:O	2.05	0.56
3:D:1277:ILE:HG23	9:D:9898:HOH:O	2.05	0.56
3:D:460:ALA:O	3:D:464:LEU:HG	2.05	0.56
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.06	0.56
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.40	0.56
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.05	0.56
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:61:GLU:H	4:O:61:GLU:CD	2.07	0.56
3:D:984:THR:HG23	3:D:987:GLU:H	1.70	0.56
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.06	0.56
3:D:890:VAL:HG22	3:D:926:LYS:HD3	1.87	0.56
1:L:100:LEU:O	1:L:115:LEU:HG	2.05	0.56
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.88	0.56
2:M:545:ASN:O	2:M:581:THR:HG21	2.06	0.56
5:P:321:ILE:HB	5:P:327:SER:OG	2.05	0.56
5:F:361:LEU:HD23	5:F:362:SER:N	2.16	0.56
3:N:1290:LEU:HA	9:N:9828:HOH:O	2.06	0.56
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.71	0.56
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.71	0.56
2:M:157:ARG:HB3	9:M:1582:HOH:O	2.04	0.56
3:D:996:TRP:HA	3:D:999:THR:HG22	1.86	0.56
5:F:87:GLU:HB3	9:F:725:HOH:O	2.04	0.56
5:P:292:ALA:HA	5:P:299:TRP:HB3	1.88	0.56
2:C:949:LYS:HA	3:D:798:GLU:OE1	2.06	0.56
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.41	0.56
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.36	0.56
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.88	0.56
2:C:70:GLU:HB3	9:C:1380:HOH:O	2.04	0.56
2:C:889:HIS:HE1	3:D:951:ILE:H	1.53	0.56
2:M:447:ALA:HB2	9:M:1391:HOH:O	2.04	0.56
3:D:483:HIS:ND1	3:D:483:HIS:N	2.54	0.56
3:N:75:ARG:HB3	9:N:9139:HOH:O	2.05	0.56
1:A:180:GLN:HB3	9:A:522:HOH:O	2.05	0.56
1:A:42:ARG:HH21	1:B:34:VAL:HB	1.71	0.56
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.35	0.56
3:D:111:LYS:CE	3:D:1452:ILE:HG12	2.35	0.56
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.34	0.56
2:C:305:PRO:HA	2:C:308:ARG:NE	2.21	0.56
1:L:24:VAL:HG13	9:L:6021:HOH:O	2.05	0.56
2:M:244:PRO:CD	2:M:245:GLY:H	2.18	0.56
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.35	0.56
3:D:500:ARG:HH11	3:D:500:ARG:HG3	1.70	0.56
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.41	0.56
3:N:62:LYS:HD2	3:N:75:ARG:NH1	2.20	0.56
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.05	0.56
2:C:24:GLU:OE1	2:C:27:ARG:HD3	2.06	0.56
3:N:472:ALA:HA	9:N:9634:HOH:O	2.05	0.56
2:M:216:GLU:HG2	2:M:217:LEU:HD23	1.88	0.56
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.04	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.53	0.56
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.87	0.56
3:D:523:ASP:O	3:D:526:PRO:HG3	2.06	0.56
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.71	0.56
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.35	0.56
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.04	0.56
1:K:18:ARG:O	1:K:207:PRO:HD3	2.06	0.56
3:N:554:LEU:O	3:N:558:LEU:HG	2.06	0.56
3:D:907:GLU:O	3:D:911:LEU:HD13	2.06	0.56
2:M:469:THR:OG1	2:M:470:PRO:HD2	2.05	0.56
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.86	0.56
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.35	0.56
3:D:869:MET:HE3	9:D:9791:HOH:O	2.06	0.56
1:K:104:GLU:HG2	1:K:105:GLY:N	2.21	0.56
2:M:173:ASP:HB2	2:M:185:LYS:NZ	2.21	0.56
2:M:154:ARG:NH2	2:M:156:GLY:HA3	2.12	0.56
3:N:573:MET:HE3	5:P:210:LEU:HD22	1.87	0.56
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.71	0.56
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.21	0.56
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.87	0.56
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	1.88	0.56
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.56
2:M:620:LEU:HD21	9:M:1351:HOH:O	2.05	0.56
2:M:371:LYS:HB2	9:M:1144:HOH:O	2.05	0.56
5:P:352:GLU:O	5:P:356:LYS:HG3	2.06	0.56
1:L:73:GLU:HB3	1:L:77:GLU:HG2	1.88	0.56
2:M:368:THR:HB	2:M:369:PRO:HD3	1.88	0.56
3:D:1049:SER:HB3	9:D:9373:HOH:O	2.06	0.56
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.30	0.55
3:N:119:SER:H	3:N:123:LEU:CD1	2.20	0.55
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.71	0.55
2:M:1039:ALA:O	2:M:1043:TYR:HD1	1.88	0.55
2:M:707:ARG:HG3	2:M:826:TYR:CD2	2.41	0.55
3:D:206:ARG:O	3:D:206:ARG:HD3	2.06	0.55
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.89	0.55
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.05	0.55
2:M:916:GLU:HG2	9:M:1287:HOH:O	2.06	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
2:C:12:VAL:HG21	9:C:1844:HOH:O	2.05	0.55
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.41	0.55
5:P:94:LEU:HB2	5:P:98:GLU:OE2	2.06	0.55
2:C:640:ARG:HG3	9:C:1776:HOH:O	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.55
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.89	0.55
5:P:113:ILE:HA	5:P:116:LEU:HD12	1.87	0.55
2:M:361:MET:HA	9:M:1201:HOH:O	2.06	0.55
2:C:232:GLU:HB2	9:C:1510:HOH:O	2.06	0.55
2:C:193:LEU:HD23	2:C:307:LEU:HD11	1.88	0.55
5:F:125:ASP:HA	5:F:128:ARG:CZ	2.37	0.55
3:N:1201:CYS:HB3	9:N:9751:HOH:O	2.07	0.55
3:D:148:GLU:HG2	3:D:151:GLN:CD	2.27	0.55
3:D:211:VAL:CG1	3:D:393:ILE:HG13	2.37	0.55
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.67	0.55
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.89	0.55
4:O:59:ASN:HB2	9:O:3650:HOH:O	2.06	0.55
3:D:699:VAL:H	3:D:756:GLN:HE22	1.52	0.55
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.33	0.55
3:D:153:LEU:HD11	3:D:158:TYR:N	2.20	0.55
2:M:63:GLY:O	2:M:103:LYS:HE2	2.06	0.55
3:D:27:GLU:O	3:D:28:LYS:HD2	2.06	0.55
5:P:287:THR:C	5:P:289:GLU:H	2.10	0.55
2:C:250:ARG:HG2	2:C:253:ALA:HB3	1.89	0.55
5:F:255:ALA:HB3	9:F:662:HOH:O	2.06	0.55
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.05	0.55
3:D:1224:VAL:HG11	9:D:2435:HOH:O	2.04	0.55
2:C:249:LYS:HB3	9:C:1545:HOH:O	2.06	0.55
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.71	0.55
5:P:385:GLU:O	5:P:397:ILE:HD13	2.06	0.55
2:C:176:VAL:C	2:C:178:PRO:HD3	2.26	0.55
2:C:193:LEU:HA	9:C:1346:HOH:O	2.06	0.55
3:D:1310:ARG:CD	3:D:1310:ARG:H	2.19	0.55
3:D:395:VAL:HG23	9:D:9389:HOH:O	2.06	0.55
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.88	0.55
5:P:166:LEU:HA	9:P:3458:HOH:O	2.06	0.55
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.20	0.55
3:D:531:ASP:C	3:D:533:GLY:H	2.07	0.55
3:D:230:TRP:HA	9:D:9066:HOH:O	2.06	0.55
3:N:629:SER:HB3	9:N:9650:HOH:O	2.04	0.55
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.87	0.55
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.07	0.55
1:K:95:GLN:HG3	9:K:3698:HOH:O	2.07	0.55
3:D:923:GLY:N	9:D:9237:HOH:O	2.38	0.55
3:N:16:GLU:HB2	9:N:2292:HOH:O	2.06	0.55
3:D:409:VAL:HG21	9:F:551:HOH:O	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.88	0.55
2:M:1102:LEU:HB2	3:N:7:LYS:CG	2.31	0.55
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.54	0.55
2:M:332:ARG:HG3	9:M:1433:HOH:O	2.04	0.55
1:B:38:ASN:HB3	9:B:384:HOH:O	2.05	0.55
2:C:983:ILE:HG23	3:D:944:THR:O	2.06	0.55
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.88	0.55
5:P:321:ILE:HG22	5:P:322:GLY:N	2.21	0.55
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.07	0.55
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.40	0.55
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.04	0.55
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.41	0.55
3:D:152:LEU:HD21	9:D:2148:HOH:O	2.06	0.55
3:D:152:LEU:H	3:D:152:LEU:HD23	1.70	0.55
5:F:151:LEU:HD21	9:F:614:HOH:O	2.06	0.55
2:C:713:ARG:HD3	9:C:1752:HOH:O	2.06	0.55
1:A:19:GLU:HB2	9:A:348:HOH:O	2.05	0.55
5:P:369:LEU:O	5:P:373:LYS:HB2	2.07	0.55
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.70	0.55
5:F:375:LEU:HD13	9:F:731:HOH:O	2.05	0.55
5:P:272:SER:HB3	9:P:3990:HOH:O	2.06	0.55
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.72	0.55
2:M:860:HIS:N	9:M:1226:HOH:O	2.39	0.55
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.55
1:B:211:LEU:O	1:B:215:VAL:HG13	2.06	0.55
2:C:660:ALA:HB1	2:C:667:ALA:O	2.07	0.55
2:C:285:LEU:HD12	2:C:288:ARG:O	2.06	0.55
3:N:225:LEU:HA	9:N:9604:HOH:O	2.07	0.55
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.87	0.55
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.07	0.55
2:C:204:GLN:NE2	2:C:222:MET:HA	2.21	0.55
5:P:244:ARG:NH1	5:P:244:ARG:HG3	2.21	0.55
3:D:1008:PHE:HB3	9:D:2325:HOH:O	2.05	0.55
3:N:1362:LYS:HD3	9:N:9859:HOH:O	2.07	0.55
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.89	0.55
9:C:1541:HOH:O	3:D:1471:LEU:HA	2.07	0.55
2:C:149:THR:HG22	9:C:1612:HOH:O	2.07	0.55
1:B:19:GLU:HG3	1:B:201:THR:O	2.06	0.55
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.86	0.55
5:P:351:SER:O	5:P:355:GLU:HB2	2.07	0.55
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.07	0.55
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.05	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:758:ARG:HB3	2:M:788:THR:O	2.06	0.55
5:P:335:ASP:OD1	5:P:338:LEU:HB2	2.07	0.55
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.89	0.55
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.06	0.55
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.89	0.55
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.88	0.55
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.41	0.55
3:N:1362:LYS:HE3	9:N:9889:HOH:O	2.06	0.55
2:M:928:LYS:HB3	9:M:1297:HOH:O	2.06	0.55
2:M:1106:ASP:HB3	9:M:1439:HOH:O	2.06	0.55
2:C:535:SER:H	2:C:538:GLN:NE2	2.04	0.55
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.07	0.55
1:A:26:GLU:HB3	9:A:331:HOH:O	2.06	0.55
3:N:422:ALA:H	3:N:427:VAL:CG1	2.19	0.55
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.37	0.55
5:P:192:LEU:O	5:P:196:VAL:HG23	2.07	0.55
3:D:135:LEU:HD11	3:D:139:GLY:HA3	1.88	0.55
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.07	0.55
3:N:543:LEU:HD23	9:N:9308:HOH:O	2.07	0.55
5:F:274:THR:O	5:F:278:LEU:HG	2.06	0.55
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.71	0.55
1:L:73:GLU:HB3	1:L:77:GLU:CG	2.36	0.55
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.88	0.55
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.40	0.55
5:P:105:LYS:NZ	5:P:179:GLU:HB3	2.22	0.55
5:F:364:ARG:HB3	9:F:765:HOH:O	2.07	0.55
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.01	0.55
2:M:146:VAL:HG13	2:M:161:SER:O	2.07	0.55
2:C:437:ARG:HE	2:C:469:THR:N	2.05	0.55
3:N:973:GLN:HA	3:N:976:GLN:NE2	2.18	0.55
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.06	0.55
2:C:802:ARG:HG2	9:C:1991:HOH:O	2.07	0.55
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.88	0.55
3:N:1045:MET:HB2	9:N:2112:HOH:O	2.06	0.55
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.87	0.55
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.42	0.55
3:N:380:GLU:O	3:N:382:GLU:N	2.39	0.55
3:N:1282:ARG:HD3	3:N:1295:GLU:OE1	2.07	0.55
5:P:261:PRO:HB3	9:P:5968:HOH:O	2.07	0.55
3:D:380:GLU:O	3:D:382:GLU:N	2.39	0.55
2:C:320:HIS:HB3	9:C:2145:HOH:O	2.06	0.55
2:M:173:ASP:O	2:M:184:MET:HA	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:607:ASP:HB3	2:M:609:ASN:H	1.71	0.55
2:C:302:VAL:HG12	9:C:1479:HOH:O	2.06	0.55
1:B:184:THR:HB	1:B:194:LYS:NZ	2.22	0.55
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.35	0.55
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.89	0.55
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.21	0.55
1:K:211:LEU:O	1:K:215:VAL:HG22	2.07	0.55
1:A:9:PRO:HB3	1:A:25:LEU:HD11	1.89	0.55
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.88	0.55
2:M:742:VAL:HG12	2:M:743:VAL:N	2.22	0.55
3:D:1164:ARG:HA	9:D:9172:HOH:O	2.06	0.55
2:C:360:LEU:HD12	9:C:1422:HOH:O	2.06	0.55
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.72	0.55
2:M:319:GLY:HA3	9:M:1194:HOH:O	2.06	0.55
3:N:68:PHE:O	3:N:71:LYS:HG2	2.07	0.55
3:N:593:ASN:CG	5:P:206:GLY:HA2	2.27	0.55
5:F:107:GLU:HG2	9:F:554:HOH:O	2.07	0.55
2:C:135:VAL:O	2:C:392:SER:HA	2.07	0.55
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.37	0.55
3:N:566:ILE:HG12	5:P:217:ASN:ND2	2.21	0.55
2:C:351:LEU:HG	9:C:1597:HOH:O	2.07	0.55
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.36	0.55
5:F:393:THR:HG21	9:F:866:HOH:O	2.07	0.55
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.89	0.55
5:F:361:LEU:HD23	5:F:362:SER:OG	2.07	0.55
3:D:493:ARG:CZ	3:D:1388:ARG:HB3	2.37	0.55
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.07	0.55
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.38	0.55
2:C:186:VAL:HG23	9:C:1478:HOH:O	2.06	0.55
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.89	0.55
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.22	0.55
3:D:459:GLU:HG2	9:D:9650:HOH:O	2.07	0.55
3:D:1159:ARG:HB2	9:D:9819:HOH:O	2.07	0.55
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.22	0.55
1:L:137:ARG:HB2	9:L:5311:HOH:O	2.07	0.55
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.89	0.55
3:N:602:SER:O	3:N:606:ILE:HG12	2.07	0.55
2:C:697:ARG:HA	9:C:1783:HOH:O	2.07	0.55
2:C:534:VAL:H	2:C:538:GLN:HE22	1.56	0.54
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.90	0.54
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.88	0.54
2:C:333:ILE:HD11	2:C:467:ILE:HG13	1.89	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:80:VAL:HG23	9:N:9633:HOH:O	2.06	0.54
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.42	0.54
2:C:1085:PHE:CE2	3:D:1468:LEU:HA	2.42	0.54
3:D:209:ARG:HH22	3:D:397:LYS:HG3	1.71	0.54
2:C:866:PRO:HD2	9:C:1297:HOH:O	2.07	0.54
2:C:79:PRO:HD3	9:C:1934:HOH:O	2.07	0.54
2:C:601:GLY:O	2:C:648:ARG:HA	2.07	0.54
5:P:291:ILE:O	5:P:295:MET:HB2	2.07	0.54
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.54
3:D:1086:LEU:N	6:D:8001:STD:H32	2.22	0.54
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.88	0.54
2:C:86:LYS:HE2	9:C:1713:HOH:O	2.06	0.54
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.22	0.54
2:M:1116:ALA:HB3	9:M:1163:HOH:O	2.06	0.54
2:M:165:LEU:HD12	2:M:166:PRO:C	2.28	0.54
2:M:170:PRO:HD3	2:M:263:ASP:HB3	1.89	0.54
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.07	0.54
1:A:26:GLU:HG2	1:A:27:PRO:HG3	1.88	0.54
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.06	0.54
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.25	0.54
3:D:215:TYR:O	3:D:389:GLU:HB2	2.08	0.54
2:C:464:LEU:O	2:C:466:PHE:N	2.40	0.54
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.35	0.54
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.08	0.54
3:N:661:MET:CE	3:N:677:LEU:HD11	2.37	0.54
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.42	0.54
2:C:666:LEU:HD21	9:C:1827:HOH:O	2.07	0.54
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.22	0.54
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.27	0.54
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.71	0.54
2:C:418:LEU:HD22	2:C:418:LEU:N	2.23	0.54
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.28	0.54
3:N:829:VAL:HA	9:N:9025:HOH:O	2.06	0.54
3:N:1127:GLU:CB	3:N:1133:ARG:HH12	2.21	0.54
3:D:965:GLU:HB2	9:D:9143:HOH:O	2.06	0.54
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.90	0.54
3:N:1182:GLU:HG2	9:N:2291:HOH:O	2.06	0.54
1:A:116:PRO:HD3	9:A:510:HOH:O	2.06	0.54
2:M:231:PRO:HA	9:M:2063:HOH:O	2.06	0.54
3:N:1502:ALA:HB3	9:N:2086:HOH:O	2.08	0.54
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.33	0.54
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.43	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:464:LEU:O	2:M:466:PHE:N	2.41	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.41	0.54
3:D:1090:ASP:O	3:D:1093:TYR:HB3	2.06	0.54
1:L:91:ASN:O	1:L:94:LEU:HD12	2.08	0.54
2:M:674:VAL:HG23	2:M:869:VAL:O	2.07	0.54
3:D:1063:GLU:HB2	9:D:9009:HOH:O	2.06	0.54
2:C:285:LEU:HD23	2:C:285:LEU:O	2.07	0.54
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.72	0.54
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.90	0.54
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.87	0.54
2:M:33:ASP:OD1	2:M:34:VAL:HG13	2.07	0.54
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.89	0.54
5:F:142:ARG:NH1	5:F:150:THR:HG21	2.23	0.54
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.90	0.54
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.89	0.54
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.42	0.54
1:K:5:LYS:O	1:K:8:ALA:HB2	2.07	0.54
2:C:140:ILE:HD11	9:C:1460:HOH:O	2.06	0.54
2:M:276:LYS:O	2:M:280:LYS:HB2	2.08	0.54
3:N:130:SER:O	3:N:568:ARG:NH2	2.40	0.54
3:D:513:ILE:HA	9:D:2414:HOH:O	2.06	0.54
3:N:69:GLU:HA	9:N:9077:HOH:O	2.08	0.54
2:C:486:MET:SD	2:C:491:GLU:HA	2.46	0.54
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.90	0.54
3:N:464:LEU:HD11	9:N:9332:HOH:O	2.07	0.54
3:N:478:LEU:HD22	3:N:1388:ARG:NH2	2.22	0.54
1:L:24:VAL:HG23	9:L:5344:HOH:O	2.08	0.54
4:O:54:LEU:O	4:O:54:LEU:HD23	2.08	0.54
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.23	0.54
3:N:681:ARG:HG3	3:N:682:ASP:OD1	2.08	0.54
1:B:44:LEU:HD21	1:B:199:ILE:HD13	1.88	0.54
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.35	0.54
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.23	0.54
3:D:679:ARG:HD2	9:D:9184:HOH:O	2.07	0.54
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.42	0.54
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.42	0.54
2:C:530:GLU:HA	9:C:1437:HOH:O	2.06	0.54
2:C:198:ARG:HH21	2:C:204:GLN:H	1.54	0.54
1:L:123:MET:O	1:L:125:PRO:HD3	2.08	0.54
3:D:583:ASP:HA	3:D:602:SER:OG	2.07	0.54
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:198:ARG:C	1:A:199:ILE:HD12	2.27	0.54
5:F:152:ASP:HA	9:F:446:HOH:O	2.06	0.54
5:P:420:ASP:HB2	9:P:5127:HOH:O	2.07	0.54
4:E:86:GLN:O	4:E:90:GLU:HG3	2.07	0.54
3:N:102:ILE:HB	9:N:2184:HOH:O	2.08	0.54
2:C:881:ASN:HD22	2:C:881:ASN:H	1.56	0.54
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.54
1:K:3:ASP:HB2	9:K:4710:HOH:O	2.07	0.54
2:C:196:LEU:HD13	2:C:303:PHE:CZ	2.41	0.54
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.88	0.54
3:N:181:ASP:HB3	9:N:9482:HOH:O	2.08	0.54
1:A:24:VAL:HG12	9:A:331:HOH:O	2.07	0.54
3:N:560:GLN:HB2	9:P:5398:HOH:O	2.07	0.54
2:C:173:ASP:O	2:C:184:MET:HA	2.07	0.54
2:C:182:VAL:HG21	9:C:1151:HOH:O	2.07	0.54
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.43	0.54
2:M:669:GLY:C	2:M:670:GLN:HG3	2.28	0.54
3:N:52:PRO:HB3	3:N:80:VAL:HG13	1.89	0.54
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.89	0.54
2:M:409:ARG:HA	2:M:454:SER:CA	2.35	0.54
3:D:209:ARG:HE	3:D:210:ARG:HD3	1.72	0.54
2:C:69:LEU:HD21	2:C:99:GLN:NE2	2.22	0.54
9:C:1424:HOH:O	3:D:3:LYS:HE3	2.07	0.54
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.36	0.54
3:N:661:MET:SD	3:N:673:ALA:HB1	2.47	0.54
2:C:423:ALA:HB2	6:D:8001:STD:C10	2.38	0.54
2:C:380:ALA:O	2:C:384:GLU:HB2	2.07	0.54
3:D:767:HIS:NE2	4:E:6:ILE:HG12	2.23	0.54
3:N:1335:LEU:HD21	9:N:9791:HOH:O	2.08	0.54
2:M:264:PRO:HB3	2:M:289:THR:CB	2.37	0.54
2:C:534:VAL:HB	2:C:538:GLN:CD	2.27	0.54
1:K:100:LEU:HG	9:K:3937:HOH:O	2.08	0.54
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.42	0.54
3:N:422:ALA:HB2	9:N:9964:HOH:O	2.07	0.54
5:P:135:ILE:HD12	9:P:4903:HOH:O	2.07	0.54
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.43	0.54
3:D:966:GLU:O	3:D:969:ARG:HG2	2.07	0.54
3:N:1380:GLU:OE2	3:N:1390:LEU:HD22	2.07	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.08	0.54
3:D:628:ARG:HG2	9:D:9834:HOH:O	2.07	0.54
2:M:707:ARG:HG3	2:M:826:TYR:CE2	2.42	0.54
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:92:PRO:HD3	9:A:335:HOH:O	2.07	0.54
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.89	0.54
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.43	0.54
5:F:407:LYS:HD3	9:F:714:HOH:O	2.08	0.54
3:D:865:THR:HG21	9:D:9950:HOH:O	2.08	0.54
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.23	0.54
2:M:380:ALA:HB2	9:M:1838:HOH:O	2.08	0.54
3:N:459:GLU:HG3	3:N:460:ALA:N	2.22	0.54
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.90	0.54
5:P:374:GLY:HA3	9:P:5465:HOH:O	2.08	0.54
2:C:105:THR:HG23	9:C:1683:HOH:O	2.06	0.54
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.42	0.54
3:D:774:SER:C	3:D:776:GLU:H	2.11	0.54
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.08	0.54
2:M:257:VAL:HG13	9:M:1389:HOH:O	2.08	0.54
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.21	0.54
2:C:793:PRO:HD2	9:C:2039:HOH:O	2.05	0.54
3:N:1395:LEU:HG	9:N:2029:HOH:O	2.08	0.54
2:C:281:LEU:HD11	2:C:306:THR:HA	1.90	0.54
3:D:15:PRO:HA	3:D:18:ILE:CG1	2.38	0.54
2:M:717:LEU:HD12	2:M:761:PHE:HB2	1.89	0.54
3:N:1310:ARG:HG3	3:N:1327:ARG:HB2	1.90	0.54
2:C:325:ILE:HD12	9:C:1988:HOH:O	2.07	0.54
1:A:11:PHE:CD1	1:A:25:LEU:HD13	2.41	0.54
2:C:722:ILE:CG2	2:C:805:ARG:HH21	2.20	0.54
2:C:717:LEU:HD12	9:C:1324:HOH:O	2.07	0.54
2:C:402:SER:OG	2:C:566:THR:HG22	2.07	0.54
2:M:41:ASN:HB3	9:M:1869:HOH:O	2.06	0.54
2:M:209:ARG:O	2:M:213:ALA:HB2	2.07	0.54
2:C:1105:LYS:HA	9:C:2031:HOH:O	2.07	0.54
2:M:143:SER:HB3	2:M:330:ASN:O	2.07	0.54
2:M:604:ALA:HB3	2:M:612:VAL:O	2.08	0.54
2:C:233:GLU:HB2	9:C:1569:HOH:O	2.08	0.54
2:M:139:GLN:HE21	2:M:334:ARG:HD2	1.71	0.54
2:C:433:THR:HA	9:C:1158:HOH:O	2.06	0.54
5:F:220:LEU:HD21	9:F:598:HOH:O	2.06	0.54
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.71	0.54
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.36	0.54
2:C:724:ARG:NE	2:C:737:LEU:O	2.41	0.54
3:N:542:ASP:O	3:N:546:ARG:HG2	2.08	0.54
5:F:100:VAL:HG23	9:F:444:HOH:O	2.07	0.54
3:N:863:VAL:HA	9:N:9076:HOH:O	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:282:LEU:HD12	5:F:284:ARG:O	2.08	0.54
3:D:992:ILE:O	3:D:995:LEU:HB3	2.08	0.54
2:C:53:PRO:HA	9:C:1326:HOH:O	2.08	0.54
2:M:144:PRO:HA	2:M:163:ILE:CG1	2.37	0.54
1:A:29:GLU:HB2	1:A:32:PHE:CD1	2.43	0.54
1:A:30:ARG:HG2	9:D:2211:HOH:O	2.08	0.54
3:D:465:LEU:HG	9:D:9464:HOH:O	2.08	0.54
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.73	0.54
2:C:359:MET:HB2	9:C:1415:HOH:O	2.07	0.54
2:M:853:LEU:HB3	2:M:858:MET:HE3	1.88	0.54
2:C:290:LEU:HB2	9:C:1479:HOH:O	2.08	0.54
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.89	0.54
3:D:478:LEU:HD13	3:D:1388:ARG:NH2	2.22	0.54
3:D:1487:VAL:CG1	3:D:1492:LEU:HG	2.38	0.54
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.23	0.54
3:D:519:VAL:HA	3:D:544:TYR:OH	2.08	0.54
3:N:961:LYS:HG3	3:N:962:GLN:OE1	2.08	0.54
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.38	0.54
3:N:994:GLN:HA	3:N:994:GLN:HE21	1.72	0.54
3:D:742:GLY:HA3	9:D:2453:HOH:O	2.07	0.54
1:K:63:HIS:HD2	1:K:65:PHE:H	1.56	0.54
3:N:1077:ALA:HA	9:N:9068:HOH:O	2.06	0.54
2:C:630:ARG:HH22	2:C:706:GLU:C	2.12	0.54
2:C:791:ARG:O	2:C:793:PRO:HD3	2.08	0.54
3:N:1097:LYS:HA	9:N:9338:HOH:O	2.06	0.54
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.11	0.54
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.89	0.54
3:D:525:ARG:HA	3:D:538:SER:CB	2.38	0.54
2:C:431:HIS:CD2	2:C:433:THR:H	2.25	0.54
2:C:774:LEU:HG	9:C:1519:HOH:O	2.08	0.54
2:M:976:ASP:HB2	2:M:979:THR:HG22	1.89	0.54
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.08	0.54
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.90	0.54
3:N:1291:SER:HB2	9:N:9921:HOH:O	2.07	0.54
5:P:264:MET:HA	9:P:5687:HOH:O	2.08	0.54
1:L:133:GLU:HB2	9:L:5764:HOH:O	2.08	0.54
2:M:650:ARG:CG	2:M:653:ASP:HB2	2.37	0.54
2:C:513:VAL:HG23	9:C:1298:HOH:O	2.06	0.54
2:M:834:GLN:HG2	9:M:1208:HOH:O	2.07	0.54
2:M:399:ASN:HB3	2:M:568:ALA:O	2.07	0.54
1:L:185:ARG:HA	9:L:5714:HOH:O	2.08	0.54
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.90	0.54
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.07	0.54
2:C:198:ARG:HH21	2:C:204:GLN:CG	2.21	0.54
1:K:20:TYR:CD2	1:K:21:GLY:N	2.76	0.54
2:M:998:TYR:CE2	2:M:1000:MET:HG2	2.42	0.54
2:M:601:GLY:O	2:M:648:ARG:HA	2.08	0.54
5:P:299:TRP:HH2	5:P:307:THR:HG21	1.73	0.54
2:C:410:ILE:HB	9:C:1130:HOH:O	2.08	0.54
1:L:204:SER:HA	9:L:3964:HOH:O	2.08	0.54
3:N:758:GLU:HG2	4:O:20:THR:HG23	1.90	0.54
3:D:391:ALA:HB3	9:D:9395:HOH:O	2.07	0.54
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.89	0.54
3:N:131:LYS:HA	3:N:456:MET:HG3	1.89	0.53
2:C:504:GLU:CD	2:C:509:ALA:HB2	2.29	0.53
2:C:1086:ARG:HD2	3:D:88:TYR:OH	2.08	0.53
2:M:971:LYS:HA	2:M:988:VAL:HA	1.90	0.53
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.73	0.53
3:N:1065:LEU:HD13	3:N:1069:GLU:HB2	1.89	0.53
3:N:1459:LEU:HD23	3:N:1464:GLU:HG3	1.90	0.53
1:L:127:LEU:HD11	9:L:4237:HOH:O	2.07	0.53
2:M:525:SER:OG	2:M:527:GLU:HG3	2.07	0.53
5:P:153:PRO:HG2	5:P:154:LYS:H	1.73	0.53
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.44	0.53
3:N:120:ALA:HB2	9:N:9789:HOH:O	2.08	0.53
2:M:408:ARG:NH1	2:M:542:VAL:HG22	2.23	0.53
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.72	0.53
3:N:969:ARG:O	3:N:972:LEU:HB3	2.07	0.53
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.72	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.43	0.53
2:C:193:LEU:HD12	9:C:1346:HOH:O	2.08	0.53
2:M:660:ALA:HB1	2:M:667:ALA:O	2.08	0.53
2:C:308:ARG:HD2	9:C:1789:HOH:O	2.07	0.53
3:D:1310:ARG:NE	3:D:1310:ARG:H	2.06	0.53
3:N:116:LEU:HD23	9:N:9142:HOH:O	2.08	0.53
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.43	0.53
2:M:975:TYR:HA	2:M:982:PRO:HA	1.89	0.53
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	2.07	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.91	0.53
3:D:720:LEU:CD1	3:D:720:LEU:H	2.18	0.53
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.90	0.53
2:C:430:VAL:HG11	3:D:1074:SER:HB2	1.89	0.53
5:F:396:ARG:HG2	9:F:810:HOH:O	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.23	0.53
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.90	0.53
2:M:678:PRO:HA	2:M:683:ASN:HD21	1.73	0.53
1:K:225:PHE:HE1	1:L:25:LEU:HD22	1.72	0.53
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.89	0.53
2:M:542:VAL:HG23	2:M:543:ASN:H	1.73	0.53
3:N:969:ARG:HD2	9:N:9270:HOH:O	2.08	0.53
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.38	0.53
5:P:201:LYS:HE2	9:P:5773:HOH:O	2.06	0.53
1:A:36:LEU:O	1:A:40:LEU:HG	2.07	0.53
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.29	0.53
1:A:95:GLN:CA	1:A:146:ARG:HH12	2.16	0.53
3:N:52:PRO:CG	3:N:80:VAL:HG22	2.39	0.53
3:N:54:LYS:HG3	3:N:57:GLU:HB3	1.90	0.53
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.23	0.53
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.89	0.53
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.39	0.53
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.49	0.53
3:N:1485:GLN:NE2	4:O:80:VAL:H	2.03	0.53
3:D:153:LEU:HD12	3:D:154:THR:H	1.72	0.53
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.73	0.53
2:C:668:LEU:HD12	2:C:668:LEU:N	2.24	0.53
4:E:72:ARG:HG2	4:E:72:ARG:HH11	1.72	0.53
3:D:662:GLU:CD	3:D:669:ASN:HA	2.28	0.53
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.07	0.53
3:N:957:PRO:HB3	3:N:959:GLU:OE1	2.08	0.53
5:P:256:ARG:HD2	9:P:3830:HOH:O	2.07	0.53
1:L:227:ASN:H	1:L:227:ASN:ND2	2.06	0.53
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.08	0.53
5:F:102:LEU:O	5:F:106:VAL:HG23	2.08	0.53
2:C:780:GLU:HG3	2:C:781:LYS:H	1.72	0.53
2:M:254:VAL:HG11	9:M:1618:HOH:O	2.08	0.53
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.74	0.53
9:K:6352:HOH:O	1:L:155:LYS:HD2	2.07	0.53
2:C:282:GLY:N	2:C:308:ARG:NH2	2.55	0.53
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	1.90	0.53
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.91	0.53
3:D:181:ASP:O	3:D:185:VAL:HG23	2.09	0.53
2:C:341:THR:HG23	2:C:345:ARG:HH21	1.74	0.53
3:N:754:PHE:CZ	4:O:21:VAL:HA	2.43	0.53
5:P:122:LEU:HD23	9:P:4172:HOH:O	2.07	0.53
2:M:943:VAL:CG2	2:M:985:GLY:H	2.19	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:94:LEU:HD11	1:B:119:ASP:HB3	1.90	0.53
2:C:1031:ARG:HH11	2:C:1031:ARG:HG3	1.74	0.53
2:M:815:LEU:HD21	2:M:820:ARG:O	2.07	0.53
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.90	0.53
1:K:8:ALA:HA	9:K:4167:HOH:O	2.08	0.53
2:M:798:GLY:H	2:M:827:VAL:HG11	1.74	0.53
3:N:1110:ALA:HB1	9:N:9543:HOH:O	2.08	0.53
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.89	0.53
2:M:266:ARG:HB2	9:M:1427:HOH:O	2.07	0.53
3:D:526:PRO:O	3:D:537:THR:HA	2.08	0.53
5:F:243:ILE:O	5:F:247:ILE:HG13	2.09	0.53
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	1.90	0.53
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.38	0.53
3:D:710:ARG:HD2	3:D:772:PRO:HG2	1.89	0.53
5:P:363:GLU:HA	5:P:367:MET:HG2	1.90	0.53
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.39	0.53
5:P:142:ARG:HG2	9:P:4970:HOH:O	2.07	0.53
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.08	0.53
3:D:1045:MET:HB3	3:D:1072:ILE:HG22	1.89	0.53
2:M:879:ARG:CZ	3:N:1029:ARG:HH12	2.21	0.53
2:C:113:VAL:HG22	9:C:1833:HOH:O	2.07	0.53
3:D:551:ASN:O	3:D:555:LYS:HG3	2.09	0.53
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.90	0.53
1:K:39:PRO:O	1:K:43:ILE:HG12	2.08	0.53
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.88	0.53
2:M:137:VAL:HG22	2:M:391:LEU:O	2.09	0.53
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.88	0.53
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.39	0.53
3:N:172:PRO:HD2	3:N:389:GLU:O	2.08	0.53
2:M:331:ARG:CZ	2:M:427:VAL:HG13	2.39	0.53
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.43	0.53
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.08	0.53
3:D:168:THR:HA	9:D:9020:HOH:O	2.07	0.53
5:P:164:LYS:HG2	9:P:5668:HOH:O	2.08	0.53
3:D:1087:ARG:HG2	9:D:9918:HOH:O	2.08	0.53
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.38	0.53
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.38	0.53
2:C:557:ARG:HB2	9:C:1189:HOH:O	2.08	0.53
3:D:744:GLN:HB3	9:D:9834:HOH:O	2.08	0.53
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.43	0.53
2:C:369:PRO:HG2	9:F:698:HOH:O	2.09	0.53
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.44	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.53
2:M:881:ASN:N	2:M:881:ASN:ND2	2.55	0.53
1:B:47:SER:O	1:B:49:PRO:N	2.41	0.53
3:N:1235:GLN:HA	9:N:9533:HOH:O	2.08	0.53
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.39	0.53
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.44	0.53
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.44	0.53
2:M:449:ILE:HG12	9:M:1213:HOH:O	2.09	0.53
1:B:170:VAL:HG22	9:B:364:HOH:O	2.07	0.53
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.91	0.53
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.37	0.53
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.23	0.53
5:F:81:VAL:O	5:F:85:LEU:HG	2.09	0.53
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.41	0.53
1:A:156:HIS:CD2	1:A:157:GLY:H	2.26	0.53
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.53
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.34	0.53
3:D:141:ILE:HD13	3:D:450:TYR:H	1.73	0.53
2:M:874:LEU:HD13	3:N:783:ARG:HB2	1.90	0.53
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.24	0.53
2:M:748:GLU:HA	2:M:799:ILE:HG22	1.90	0.53
1:L:110:LYS:HD2	1:L:112:ARG:HH12	1.74	0.53
1:L:59:GLU:HG3	1:L:139:ASN:ND2	2.23	0.53
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.91	0.53
2:M:881:ASN:H	2:M:881:ASN:ND2	2.06	0.53
2:C:663:ASN:N	9:C:2008:HOH:O	2.40	0.53
3:D:1239:ARG:HA	9:D:2088:HOH:O	2.08	0.53
3:N:822:ALA:HB2	9:N:9137:HOH:O	2.08	0.53
5:F:226:LYS:HE3	9:F:490:HOH:O	2.07	0.53
4:E:40:LEU:HD22	4:E:40:LEU:O	2.09	0.53
2:M:241:LEU:HD23	9:M:1478:HOH:O	2.08	0.53
3:N:172:PRO:HB2	9:N:9436:HOH:O	2.08	0.53
2:M:1059:ASP:CG	2:M:1062:GLY:HA3	2.29	0.53
2:C:842:ARG:HH21	2:C:887:GLU:CD	2.12	0.53
3:N:77:GLY:O	3:N:78:VAL:HG23	2.09	0.53
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.90	0.53
1:L:95:GLN:N	1:L:95:GLN:HE21	2.06	0.53
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.23	0.53
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.91	0.53
2:M:569:VAL:HG12	2:M:996:LYS:O	2.09	0.53
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.91	0.53
4:E:54:LEU:O	4:E:54:LEU:HD23	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.44	0.53
3:D:669:ASN:OD1	5:F:349:LEU:HD11	2.09	0.53
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.91	0.53
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.73	0.53
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.91	0.53
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.90	0.53
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.09	0.53
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.09	0.53
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.44	0.53
2:M:282:GLY:HA2	2:M:308:ARG:HH22	1.73	0.53
3:N:1432:LYS:CD	3:N:1433:SER:H	2.20	0.53
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.24	0.53
2:M:626:ARG:HB2	2:M:639:GLN:NE2	2.12	0.53
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.90	0.53
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.44	0.53
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.53
2:C:41:ASN:HB3	9:C:1171:HOH:O	2.09	0.53
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.90	0.53
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.37	0.53
2:C:163:ILE:HD12	9:C:1850:HOH:O	2.09	0.53
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.91	0.53
2:C:670:GLN:O	2:C:672:VAL:HG12	2.09	0.53
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.89	0.53
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.39	0.53
3:N:583:ASP:HA	3:N:602:SER:HB2	1.91	0.53
2:C:266:ARG:HB2	9:C:1885:HOH:O	2.09	0.53
2:C:25:SER:HB2	2:C:335:THR:HB	1.90	0.53
5:P:117:SER:OG	5:P:124:PRO:HG3	2.09	0.53
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.38	0.53
1:A:182:GLU:HB2	9:A:512:HOH:O	2.09	0.53
1:K:216:GLU:O	1:K:220:GLU:HG3	2.09	0.53
2:M:144:PRO:HB2	2:M:267:TYR:HE1	1.74	0.53
2:M:172:ILE:HG23	2:M:184:MET:CE	2.39	0.53
3:D:1361:VAL:HG23	9:D:9147:HOH:O	2.09	0.53
2:M:428:ARG:HH21	2:M:451:LEU:HD11	1.73	0.53
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.39	0.53
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.91	0.53
2:M:674:VAL:HG21	2:M:871:LEU:CD1	2.39	0.53
2:M:789:SER:O	2:M:791:ARG:HG2	2.09	0.53
2:M:52:PHE:HA	9:M:1741:HOH:O	2.09	0.53
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.44	0.53
3:D:1132:LEU:HD23	9:D:2203:HOH:O	2.09	0.53
3:D:1044:LEU:HA	9:D:9902:HOH:O	2.09	0.53
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.74	0.53
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.09	0.53
3:D:1217:ILE:HD12	3:D:1480:PHE:HE2	1.74	0.53
5:P:261:PRO:O	5:P:265:VAL:HG23	2.09	0.53
5:F:207:LEU:HB3	5:F:212:LEU:HD12	1.91	0.53
1:A:106:PRO:HB3	9:A:500:HOH:O	2.08	0.53
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.43	0.53
4:E:53:GLY:HA3	9:E:196:HOH:O	2.08	0.53
2:C:534:VAL:HB	2:C:538:GLN:OE1	2.08	0.52
3:N:171:LEU:HD11	9:N:9804:HOH:O	2.08	0.52
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.38	0.52
3:D:18:ILE:HG23	3:D:518:PRO:CG	2.35	0.52
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.38	0.52
4:E:63:TRP:O	4:E:67:GLU:HG3	2.08	0.52
3:D:455:ARG:HA	9:D:9353:HOH:O	2.09	0.52
2:C:137:VAL:O	2:C:391:LEU:HD21	2.09	0.52
2:M:71:TYR:HD2	2:M:71:TYR:H	1.57	0.52
2:C:625:LEU:HD13	2:C:639:GLN:O	2.10	0.52
2:M:774:LEU:HB2	9:M:2065:HOH:O	2.08	0.52
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.45	0.52
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.40	0.52
2:C:580:MET:SD	2:C:584:GLU:HG3	2.49	0.52
2:C:142:ARG:HB2	9:C:1317:HOH:O	2.08	0.52
3:N:661:MET:HA	3:N:666:ILE:CD1	2.40	0.52
5:F:94:LEU:HD23	5:F:96:LEU:N	2.24	0.52
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.44	0.52
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.40	0.52
2:C:848:VAL:HG23	3:D:740:PHE:O	2.09	0.52
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.45	0.52
3:N:149:LYS:HD3	9:N:9623:HOH:O	2.09	0.52
3:D:1334:GLN:HG2	9:D:9604:HOH:O	2.09	0.52
3:N:563:PRO:O	3:N:567:ILE:HG13	2.09	0.52
3:D:119:SER:CB	3:D:123:LEU:HB2	2.40	0.52
3:D:148:GLU:HA	9:D:9078:HOH:O	2.09	0.52
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.90	0.52
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.74	0.52
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.29	0.52
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.90	0.52
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.74	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:781:PRO:HA	3:D:785:ILE:HD12	1.90	0.52
2:C:1004:LYS:HB2	9:C:1264:HOH:O	2.09	0.52
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.74	0.52
3:N:838:ARG:HD3	3:N:874:GLU:HG2	1.92	0.52
2:C:902:ILE:O	2:C:904:PRO:HD3	2.09	0.52
2:M:474:VAL:HG23	2:M:478:VAL:O	2.09	0.52
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.74	0.52
2:M:724:ARG:CG	2:M:740:GLU:HA	2.40	0.52
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.38	0.52
1:L:27:PRO:O	1:L:28:LEU:HD23	2.09	0.52
2:M:524:VAL:HG22	2:M:528:GLU:HG3	1.90	0.52
3:N:984:THR:HG23	3:N:986:ARG:H	1.74	0.52
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.92	0.52
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.39	0.52
2:M:198:ARG:HB3	9:M:2063:HOH:O	2.10	0.52
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.09	0.52
5:F:245:GLN:HA	9:F:471:HOH:O	2.09	0.52
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.08	0.52
2:M:242:LEU:HB3	9:M:1173:HOH:O	2.10	0.52
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.44	0.52
3:D:197:SER:CB	3:D:203:ALA:HB3	2.27	0.52
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.72	0.52
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.25	0.52
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.90	0.52
2:M:666:LEU:HD12	2:M:667:ALA:H	1.74	0.52
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.09	0.52
5:F:404:ALA:O	5:F:408:LEU:HD23	2.08	0.52
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.36	0.52
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.36	0.52
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.10	0.52
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.45	0.52
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.91	0.52
3:D:809:PRO:O	3:D:812:ALA:HB3	2.09	0.52
3:D:783:ARG:HE	3:D:1029:ARG:NE	2.07	0.52
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.73	0.52
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.37	0.52
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.08	0.52
2:C:275:TYR:HA	9:C:1202:HOH:O	2.09	0.52
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.22	0.52
1:A:123:MET:C	1:A:125:PRO:HD3	2.29	0.52
3:D:926:LYS:HE2	9:D:9035:HOH:O	2.08	0.52
1:L:115:LEU:O	1:L:115:LEU:HD12	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:104:GLU:OE1	1:L:137:ARG:HG3	2.09	0.52
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.91	0.52
3:D:1286:THR:HG22	9:D:9077:HOH:O	2.09	0.52
2:M:310:LEU:HD12	2:M:313:LEU:CD2	2.39	0.52
1:A:41:ARG:O	1:A:45:LEU:HD12	2.10	0.52
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.90	0.52
3:N:422:ALA:CB	5:P:178:ARG:HH12	2.17	0.52
3:N:161:LEU:HD21	9:N:9457:HOH:O	2.10	0.52
5:F:192:LEU:O	5:F:192:LEU:HD23	2.09	0.52
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.74	0.52
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.75	0.52
2:C:1098:ASP:N	9:C:1791:HOH:O	2.42	0.52
3:D:444:VAL:HG11	9:D:9854:HOH:O	2.10	0.52
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.91	0.52
3:D:1234:THR:HG21	9:D:2326:HOH:O	2.09	0.52
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.38	0.52
3:N:555:LYS:HA	3:N:558:LEU:HD12	1.92	0.52
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.24	0.52
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.38	0.52
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.91	0.52
3:D:619:LEU:HB2	9:D:9123:HOH:O	2.09	0.52
3:D:697:GLY:HA2	3:D:717:GLN:OE1	2.08	0.52
1:B:102:LYS:HE2	1:B:104:GLU:CD	2.30	0.52
3:D:880:ILE:O	3:D:883:ALA:HB3	2.09	0.52
2:C:481:ASP:HA	9:C:1844:HOH:O	2.10	0.52
3:D:724:GLN:HG3	3:D:725:SER:N	2.24	0.52
2:M:92:ALA:HB2	2:M:120:LEU:HD21	1.92	0.52
5:F:399:GLN:HG3	9:F:772:HOH:O	2.09	0.52
1:A:229:GLN:HG3	9:B:611:HOH:O	2.10	0.52
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.49	0.52
2:C:633:GLN:NE2	2:C:633:GLN:H	2.07	0.52
2:M:154:ARG:HG3	9:M:1568:HOH:O	2.08	0.52
2:C:162:ILE:HB	2:C:172:ILE:HB	1.91	0.52
2:C:442:GLU:HB3	2:C:453:THR:OG1	2.08	0.52
2:M:9:ILE:HD11	2:M:537:LYS:NZ	2.25	0.52
3:D:1496:GLU:HA	3:D:1499:ARG:NE	2.24	0.52
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.40	0.52
2:C:428:ARG:HG3	2:C:428:ARG:NH1	2.24	0.52
5:P:81:VAL:O	5:P:85:LEU:HG	2.10	0.52
2:C:924:VAL:HG21	9:C:2023:HOH:O	2.09	0.52
5:P:274:THR:O	5:P:278:LEU:HG	2.09	0.52
2:M:167:LYS:HD2	2:M:168:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:29:GLU:HG3	9:B:336:HOH:O	2.08	0.52
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.39	0.52
3:N:422:ALA:O	3:N:427:VAL:HG21	2.10	0.52
1:B:84:GLU:HB3	1:B:127:LEU:HD21	1.92	0.52
5:P:363:GLU:HA	5:P:367:MET:HE2	1.92	0.52
5:F:88:ILE:HD13	5:F:193:ARG:HD3	1.90	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.40	0.52
5:P:138:SER:O	5:P:141:VAL:HG12	2.09	0.52
2:C:884:GLN:HG2	2:C:885:ILE:N	2.23	0.52
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.90	0.52
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.10	0.52
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.92	0.52
2:M:932:GLU:HG2	9:M:1541:HOH:O	2.08	0.52
3:N:907:GLU:HG2	3:N:908:LYS:H	1.74	0.52
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.92	0.52
4:E:42:PRO:HG2	9:E:146:HOH:O	2.09	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.10	0.52
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.39	0.52
2:M:232:GLU:O	2:M:235:LEU:HB2	2.09	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.24	0.52
3:D:1463:LYS:O	3:D:1467:ILE:HD12	2.10	0.52
5:F:365:GLU:HG2	5:F:397:ILE:HA	1.92	0.52
5:F:86:HIS:HB3	9:F:802:HOH:O	2.10	0.52
1:B:91:ASN:H	1:B:94:LEU:HD12	1.75	0.52
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.24	0.52
2:C:288:ARG:HD3	9:C:1496:HOH:O	2.09	0.52
3:D:1341:PRO:HD2	3:D:1342:GLU:OE2	2.09	0.52
3:N:1441:GLN:OE1	3:N:1442:ASN:HB2	2.10	0.52
2:C:665:PHE:N	9:C:2008:HOH:O	2.41	0.52
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.91	0.52
1:A:216:GLU:O	1:A:220:GLU:HG3	2.09	0.52
3:N:774:SER:C	3:N:776:GLU:H	2.13	0.52
2:C:74:GLY:O	2:C:76:PRO:HD3	2.09	0.52
3:N:171:LEU:HD13	3:N:389:GLU:C	2.29	0.52
3:N:699:VAL:HB	3:N:716:PHE:O	2.10	0.52
3:D:1443:THR:O	3:D:1447:LEU:HD13	2.10	0.52
5:P:215:GLU:HA	9:P:6496:HOH:O	2.10	0.52
2:M:428:ARG:HD3	2:M:449:ILE:CG2	2.40	0.52
3:D:26:VAL:N	9:D:9002:HOH:O	2.42	0.52
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:124:PRO:O	5:F:128:ARG:HB2	2.10	0.52
2:M:925:TYR:HE1	2:M:929:ARG:HH11	1.57	0.52
3:D:131:LYS:HB3	3:D:456:MET:HE2	1.92	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.90	0.52
5:F:190:ALA:HB1	9:F:704:HOH:O	2.10	0.52
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.25	0.52
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.74	0.52
2:C:669:GLY:HA3	2:C:995:MET:HA	1.91	0.52
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.75	0.52
3:N:676:MET:CE	3:N:684:LYS:HD2	2.40	0.52
3:N:416:ALA:HA	3:N:442:ASN:ND2	2.24	0.52
2:C:63:GLY:HA3	2:C:103:LYS:HE2	1.91	0.52
5:F:225:GLU:HG3	5:F:226:LYS:HG3	1.91	0.52
2:M:61:LYS:HG2	9:M:1592:HOH:O	2.10	0.52
3:D:1385:GLY:HA2	9:D:9072:HOH:O	2.10	0.52
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.10	0.52
2:C:504:GLU:HG2	2:C:507:ARG:O	2.09	0.52
2:C:56:GLU:OE1	2:C:356:ARG:HD3	2.09	0.52
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.91	0.52
2:M:5:ARG:CB	2:M:902:ILE:HB	2.40	0.52
5:P:111:GLU:O	5:P:115:LYS:HG3	2.08	0.52
2:C:674:VAL:HG23	2:C:869:VAL:O	2.09	0.52
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.24	0.52
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.10	0.52
2:C:730:SER:O	2:C:734:LEU:HD13	2.09	0.52
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.92	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB3	2.39	0.52
3:N:438:ASP:HA	9:N:9374:HOH:O	2.10	0.52
4:E:58:PRO:HB2	9:E:102:HOH:O	2.08	0.52
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.44	0.52
1:B:226:SER:O	1:B:228:PRO:HD3	2.09	0.52
5:F:253:ASP:HB2	9:F:629:HOH:O	2.09	0.52
2:C:662:GLU:N	9:C:2008:HOH:O	2.42	0.52
3:N:1343:ALA:HB1	9:N:9791:HOH:O	2.09	0.52
1:A:136:GLY:HA3	9:A:360:HOH:O	2.08	0.52
1:A:181:VAL:HG12	9:A:370:HOH:O	2.08	0.52
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.91	0.52
3:N:1395:LEU:HD13	3:N:1396:GLU:N	2.25	0.52
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.07	0.52
5:P:163:LEU:HB3	5:P:174:LEU:HD11	1.91	0.52
3:N:1086:LEU:HD11	6:N:8002:STD:H113	1.92	0.52
3:D:55:ASP:O	3:D:82:LYS:HA	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:12:LEU:HD23	3:N:13:ALA:H	1.75	0.52
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.10	0.52
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.10	0.52
3:D:496:LEU:HD23	3:D:1388:ARG:HG2	1.92	0.52
1:A:132:LEU:HD12	9:A:328:HOH:O	2.10	0.52
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.91	0.52
3:D:796:ARG:HG3	3:D:828:LYS:HD2	1.92	0.52
3:N:933:ALA:O	3:N:937:TYR:HD1	1.93	0.52
1:K:227:ASN:HD22	1:K:227:ASN:H	1.57	0.52
3:D:1018:ASN:ND2	3:D:1019:PRO:HD2	2.25	0.52
1:B:154:GLU:HB3	9:B:483:HOH:O	2.09	0.52
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.43	0.52
3:N:132:TYR:HA	9:N:9350:HOH:O	2.09	0.51
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.45	0.51
1:K:98:THR:HG22	9:K:3937:HOH:O	2.08	0.51
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.92	0.51
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.35	0.51
3:D:1326:THR:HA	9:D:9040:HOH:O	2.11	0.51
2:C:1008:ARG:NH1	2:C:1011:GLY:HA3	2.25	0.51
3:D:63:TYR:HB3	3:D:68:PHE:CZ	2.45	0.51
1:A:178:ALA:CB	2:C:864:GLY:H	2.23	0.51
2:C:564:MET:HE2	2:C:846:LYS:HE2	1.92	0.51
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.40	0.51
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.92	0.51
1:L:59:GLU:HG3	1:L:139:ASN:HD22	1.74	0.51
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.14	0.51
1:L:101:LEU:HB3	1:L:140:MET:SD	2.50	0.51
9:N:9551:HOH:O	5:P:258:ILE:HD12	2.10	0.51
1:K:227:ASN:N	1:K:227:ASN:HD22	2.06	0.51
1:B:33:GLY:O	1:B:195:LEU:HD22	2.10	0.51
1:K:159:LYS:HD3	9:K:3711:HOH:O	2.10	0.51
2:M:160:ALA:O	2:M:173:ASP:HA	2.10	0.51
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.91	0.51
2:C:232:GLU:O	2:C:235:LEU:HB2	2.10	0.51
2:M:335:THR:CG2	2:M:461:VAL:HG11	2.40	0.51
3:N:135:LEU:HD11	3:N:139:GLY:HA3	1.92	0.51
2:C:578:VAL:HG11	2:C:991:GLN:CB	2.33	0.51
2:M:704:HIS:HB3	2:M:831:ARG:NE	2.25	0.51
1:L:110:LYS:HD2	1:L:126:ASP:HA	1.90	0.51
3:D:1476:THR:C	3:D:1478:SER:H	2.13	0.51
2:M:129:ILE:HD13	2:M:386:PHE:HB3	1.92	0.51
2:C:204:GLN:HB2	9:C:1650:HOH:O	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1335:LEU:CD2	3:D:1344:VAL:HA	2.40	0.51
2:C:441:VAL:CG1	2:C:559:LEU:HA	2.39	0.51
3:N:671:LYS:CE	3:N:674:ARG:HH21	2.24	0.51
5:F:283:GLY:HA2	9:F:586:HOH:O	2.09	0.51
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.42	0.51
3:N:424:GLY:HA2	3:N:435:VAL:O	2.10	0.51
2:M:335:THR:HG21	2:M:461:VAL:HG11	1.92	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.41	0.51
5:F:122:LEU:HD12	9:F:488:HOH:O	2.11	0.51
3:N:54:LYS:HB3	9:N:9416:HOH:O	2.09	0.51
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.22	0.51
5:F:337:HIS:CD2	5:F:337:HIS:N	2.74	0.51
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.40	0.51
2:C:432:ARG:NH1	3:D:1048:PRO:HD3	2.26	0.51
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.25	0.51
3:D:1380:GLU:HG3	3:D:1381:VAL:N	2.25	0.51
2:M:720:GLU:HA	2:M:759:THR:O	2.11	0.51
2:M:526:PRO:HD2	9:M:1644:HOH:O	2.10	0.51
3:N:1492:LEU:HD12	3:N:1493:LYS:NZ	2.24	0.51
1:B:223:THR:HA	9:B:419:HOH:O	2.09	0.51
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.46	0.51
1:A:161:ARG:HG2	9:A:442:HOH:O	2.11	0.51
2:C:141:HIS:CB	2:C:418:LEU:HG	2.40	0.51
5:P:392:VAL:HG21	9:P:3714:HOH:O	2.09	0.51
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.10	0.51
3:N:601:ARG:NE	3:N:606:ILE:HD13	2.25	0.51
3:N:1237:THR:HB	3:N:1359:GLN:OE1	2.10	0.51
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.91	0.51
3:D:639:LEU:N	3:D:639:LEU:HD12	2.26	0.51
5:P:325:LYS:HB2	9:P:6651:HOH:O	2.09	0.51
3:N:634:GLY:O	3:N:637:LEU:HB3	2.09	0.51
3:D:1263:PHE:HD2	3:D:1375:MET:HE2	1.75	0.51
2:M:141:HIS:O	2:M:331:ARG:HA	2.10	0.51
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.92	0.51
2:M:9:ILE:HD11	2:M:537:LYS:HZ3	1.75	0.51
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.23	0.51
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.45	0.51
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.75	0.51
3:N:481:MET:HE1	3:N:493:ARG:NH2	2.25	0.51
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.92	0.51
4:O:58:PRO:HB2	9:O:3650:HOH:O	2.10	0.51
5:P:144:ILE:HG23	9:P:4405:HOH:O	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:837:ASP:OD1	2:M:996:LYS:HE2	2.10	0.51
3:D:1354:LYS:HD3	9:D:9764:HOH:O	2.08	0.51
4:O:84:ARG:HB2	4:O:84:ARG:NH1	2.26	0.51
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.39	0.51
5:F:289:GLU:O	5:F:293:GLU:HG3	2.10	0.51
2:C:140:ILE:HD12	2:C:140:ILE:H	1.76	0.51
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.10	0.51
9:K:5022:HOH:O	2:M:608:GLY:HA3	2.11	0.51
2:M:1073:GLY:HA3	9:M:1801:HOH:O	2.11	0.51
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.10	0.51
2:M:1082:PRO:HG3	9:M:1191:HOH:O	2.10	0.51
3:N:1481:VAL:CG1	4:O:18:ARG:HE	2.12	0.51
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.40	0.51
4:O:17:TYR:O	4:O:21:VAL:HG23	2.11	0.51
4:E:26:ARG:O	4:E:29:GLN:HG3	2.10	0.51
1:A:156:HIS:HD2	1:A:157:GLY:N	2.08	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.11	0.51
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.75	0.51
2:M:244:PRO:HD3	9:M:1602:HOH:O	2.10	0.51
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.41	0.51
1:A:13:VAL:HG21	9:B:442:HOH:O	2.10	0.51
2:M:157:ARG:HG2	2:M:157:ARG:HH11	1.74	0.51
2:M:1009:SER:OG	3:N:654:LYS:HB3	2.09	0.51
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.92	0.51
2:C:541:SER:HB2	9:C:1121:HOH:O	2.10	0.51
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.25	0.51
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.25	0.51
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.92	0.51
5:F:238:TYR:HB2	9:F:612:HOH:O	2.10	0.51
3:N:181:ASP:OD1	3:N:199:LEU:HD12	2.10	0.51
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.93	0.51
2:C:185:LYS:HG2	2:C:190:LYS:HG2	1.91	0.51
3:N:29:PRO:HA	9:N:9523:HOH:O	2.10	0.51
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.76	0.51
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.26	0.51
3:D:1090:ASP:HA	3:D:1093:TYR:HB2	1.91	0.51
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.93	0.51
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.92	0.51
3:N:146:PRO:HB3	9:N:9665:HOH:O	2.11	0.51
2:C:80:GLN:HB3	2:C:84:ARG:HH21	1.75	0.51
3:N:809:PRO:O	3:N:812:ALA:HB3	2.11	0.51
3:D:696:HIS:HB2	4:E:48:MET:HE1	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:526:PRO:HB3	9:C:1428:HOH:O	2.11	0.51
3:D:955:VAL:HG22	9:D:2109:HOH:O	2.10	0.51
3:D:32:ILE:HG12	3:D:38:LYS:O	2.11	0.51
2:C:975:TYR:HA	2:C:982:PRO:HA	1.91	0.51
2:M:1000:MET:HE1	9:M:1491:HOH:O	2.10	0.51
4:O:85:LEU:HD23	4:O:86:GLN:N	2.25	0.51
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.90	0.51
3:N:32:ILE:O	5:P:258:ILE:HG23	2.11	0.51
5:P:256:ARG:NH2	5:P:258:ILE:HB	2.25	0.51
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.31	0.51
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.26	0.51
2:M:176:VAL:C	2:M:178:PRO:HD3	2.31	0.51
2:M:290:LEU:H	2:M:290:LEU:HD23	1.75	0.51
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.41	0.51
3:N:154:THR:HG23	3:N:157:GLU:H	1.76	0.51
3:N:112:ILE:HG22	3:N:512:MET:SD	2.51	0.51
5:F:393:THR:HG22	5:F:394:ARG:H	1.74	0.51
3:N:770:LEU:HD12	3:N:1210:SER:O	2.11	0.51
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.75	0.51
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.75	0.51
2:C:704:HIS:HB2	9:C:1879:HOH:O	2.10	0.51
3:N:543:LEU:HD21	3:N:600:LEU:HD12	1.91	0.51
2:C:260:LEU:HA	2:C:291:ALA:CB	2.40	0.51
9:C:1234:HOH:O	5:F:335:ASP:HB3	2.10	0.51
2:C:367:LEU:HA	2:C:371:LYS:CD	2.41	0.51
3:N:1105:ILE:HD11	3:N:1374:GLN:CD	2.31	0.51
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.92	0.51
2:M:64:LEU:HB2	2:M:359:MET:SD	2.51	0.51
3:N:799:LYS:H	3:N:826:PRO:HG2	1.76	0.51
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.92	0.51
3:D:669:ASN:HB3	9:D:9017:HOH:O	2.10	0.51
2:M:137:VAL:CG2	2:M:391:LEU:HG	2.40	0.51
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.25	0.51
3:N:638:LYS:HE3	9:N:9110:HOH:O	2.11	0.51
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.93	0.51
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.75	0.51
4:E:13:VAL:HG23	9:E:108:HOH:O	2.11	0.51
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.93	0.51
2:C:199:VAL:HG21	9:C:1222:HOH:O	2.09	0.51
3:N:65:ARG:HB3	5:P:375:LEU:O	2.11	0.51
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.38	0.51
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.40	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:131:LYS:CE	5:F:83:GLN:HE22	2.24	0.51
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.91	0.51
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.93	0.51
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.45	0.51
2:C:279:GLU:HG3	2:C:280:LYS:N	2.26	0.51
2:C:387:SER:HB2	2:C:388:ARG:HD3	1.93	0.51
3:N:628:ARG:HG2	3:N:744:GLN:HE21	1.76	0.51
3:N:1093:TYR:HA	3:N:1096:ARG:NH2	2.25	0.51
2:C:742:VAL:HG12	2:C:743:VAL:N	2.26	0.51
2:M:749:VAL:HG12	2:M:753:ASP:HB2	1.92	0.51
1:B:46:SER:O	1:B:148:VAL:HB	2.10	0.51
3:N:1014:ASN:HA	9:N:9833:HOH:O	2.09	0.51
1:A:58:ILE:HB	1:A:61:VAL:HB	1.92	0.51
3:N:215:TYR:HB3	9:N:9520:HOH:O	2.11	0.51
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.26	0.51
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.41	0.51
3:N:524:LEU:HD23	9:N:9039:HOH:O	2.11	0.51
3:D:969:ARG:O	3:D:972:LEU:HB3	2.11	0.51
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.45	0.51
3:D:186:VAL:HG23	9:D:9609:HOH:O	2.11	0.51
3:D:1066:THR:HG22	3:D:1069:GLU:HG3	1.93	0.51
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.92	0.51
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.92	0.51
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.41	0.51
1:B:101:LEU:HG	1:B:114:PHE:HA	1.92	0.51
3:D:528:VAL:HG23	3:D:536:ALA:O	2.10	0.51
2:C:358:ARG:HH12	2:C:374:ASN:HB3	1.76	0.51
5:F:262:VAL:HG12	5:F:266:GLU:OE2	2.10	0.51
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.93	0.51
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.41	0.51
5:P:95:THR:HB	5:P:96:LEU:HD23	1.93	0.51
1:B:105:GLY:O	1:B:132:LEU:HB3	2.11	0.51
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.92	0.51
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.92	0.51
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.41	0.51
5:F:277:GLN:O	5:F:280:GLN:HB3	2.10	0.51
2:M:1080:SER:HB2	9:M:1326:HOH:O	2.11	0.51
2:M:283:ILE:HA	9:M:1764:HOH:O	2.10	0.51
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.11	0.51
3:N:65:ARG:HG3	3:N:66:GLN:N	2.12	0.51
5:F:404:ALA:HA	9:F:428:HOH:O	2.10	0.51
3:D:179:VAL:HG22	3:D:389:GLU:CG	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:95:GLN:HA	1:L:146:ARG:HD2	1.92	0.51
3:N:953:ASP:O	3:N:955:VAL:HG23	2.10	0.51
4:O:26:ARG:O	4:O:29:GLN:HG3	2.11	0.51
3:N:681:ARG:HD3	9:N:9087:HOH:O	2.10	0.51
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.41	0.51
2:C:1005:MET:CE	3:D:648:MET:HB2	2.41	0.51
3:D:1382:THR:CG2	3:D:1418:LYS:HE3	2.39	0.51
3:D:1354:LYS:HA	9:D:9764:HOH:O	2.10	0.51
2:C:274:ARG:HD3	9:C:2046:HOH:O	2.09	0.51
2:C:720:GLU:HA	2:C:759:THR:O	2.11	0.51
2:C:473:ARG:HD3	2:C:531:PHE:HE1	1.75	0.51
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.51
2:C:769:PRO:O	2:C:772:ARG:HB3	2.11	0.51
2:M:584:GLU:O	2:M:588:VAL:HG13	2.11	0.51
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.41	0.51
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.76	0.51
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.11	0.51
4:O:62:THR:HA	4:O:65:MET:HE3	1.92	0.51
3:N:1362:LYS:HD2	9:N:9355:HOH:O	2.11	0.51
3:N:593:ASN:OD1	3:N:594:PRO:HD2	2.11	0.51
1:K:63:HIS:HD2	1:K:65:PHE:N	2.09	0.51
3:N:1080:GLY:HA3	9:N:9068:HOH:O	2.10	0.51
5:F:121:GLY:HA3	9:F:650:HOH:O	2.11	0.51
3:N:173:PRO:HA	9:N:9622:HOH:O	2.11	0.50
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.26	0.50
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.40	0.50
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.93	0.50
2:M:288:ARG:HB2	9:M:1581:HOH:O	2.11	0.50
3:D:56:TYR:CE2	3:D:69:GLU:HB2	2.45	0.50
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.46	0.50
2:M:396:ASP:HA	2:M:633:GLN:OE1	2.11	0.50
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.41	0.50
2:M:462:ASP:OD1	2:M:468:ARG:HG2	2.12	0.50
2:M:580:MET:HB3	2:M:584:GLU:CD	2.32	0.50
3:D:865:THR:CG2	3:D:874:GLU:HG2	2.41	0.50
5:F:287:THR:C	5:F:289:GLU:H	2.14	0.50
1:A:176:ARG:O	1:A:200:TRP:HE3	1.93	0.50
2:C:166:PRO:HD2	9:C:1436:HOH:O	2.11	0.50
2:M:107:LEU:HB2	9:M:1746:HOH:O	2.10	0.50
3:D:818:ARG:HD2	9:D:9402:HOH:O	2.10	0.50
5:F:134:LYS:HD2	9:F:721:HOH:O	2.11	0.50
1:L:60:ASP:HB2	9:L:3794:HOH:O	2.10	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:141:ILE:HD13	3:N:450:TYR:H	1.77	0.50
3:N:983:LEU:HD13	3:N:991:GLN:OE1	2.12	0.50
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.50
2:C:1086:ARG:HB3	2:C:1112:PHE:HE2	1.76	0.50
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.57	0.50
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.39	0.50
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.42	0.50
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.47	0.50
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.41	0.50
2:C:610:ARG:C	2:C:611:ILE:HD12	2.32	0.50
3:D:1389:LEU:HD12	3:D:1390:LEU:H	1.76	0.50
3:D:496:LEU:HD22	9:D:9267:HOH:O	2.11	0.50
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.40	0.50
1:K:178:ALA:O	1:K:198:ARG:HG3	2.12	0.50
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.93	0.50
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.41	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.11	0.50
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.32	0.50
2:C:94:LEU:HD12	2:C:95:TYR:N	2.26	0.50
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.92	0.50
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.26	0.50
2:M:85:GLU:HG3	9:M:1240:HOH:O	2.11	0.50
5:F:301:ALA:HB2	9:F:684:HOH:O	2.11	0.50
2:M:726:ILE:O	2:M:726:ILE:HG22	2.11	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.41	0.50
2:C:749:VAL:HB	2:C:792:VAL:HG21	1.93	0.50
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.76	0.50
5:P:217:ASN:O	5:P:221:ILE:HG13	2.12	0.50
3:D:81:THR:HG22	3:D:82:LYS:N	2.26	0.50
1:L:219:ARG:HB3	1:L:219:ARG:CZ	2.41	0.50
5:F:123:ASP:HB2	5:F:126:LEU:HD22	1.93	0.50
2:C:49:ARG:HA	9:C:1342:HOH:O	2.10	0.50
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.46	0.50
2:M:700:TYR:HB2	2:M:833:LEU:HD22	1.93	0.50
2:M:669:GLY:HA3	2:M:995:MET:HA	1.93	0.50
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.42	0.50
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.93	0.50
3:D:149:LYS:HE3	9:D:9873:HOH:O	2.12	0.50
3:N:955:VAL:HG11	3:N:1015:TYR:HE2	1.76	0.50
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.41	0.50
3:D:1137:ARG:HG2	9:D:9554:HOH:O	2.11	0.50
3:D:486:ARG:HB3	9:D:9316:HOH:O	2.10	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:291:ILE:O	5:F:295:MET:HB2	2.11	0.50
1:L:5:LYS:HE3	1:L:5:LYS:HA	1.93	0.50
5:P:289:GLU:O	5:P:293:GLU:HG3	2.11	0.50
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.46	0.50
2:M:101:ILE:HG22	2:M:102:HIS:H	1.76	0.50
5:F:201:LYS:HG2	9:F:891:HOH:O	2.10	0.50
2:M:841:ASN:HD22	2:M:841:ASN:C	2.14	0.50
3:D:829:VAL:HG21	9:D:9008:HOH:O	2.12	0.50
2:C:969:GLN:HG2	9:C:1454:HOH:O	2.11	0.50
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.92	0.50
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.47	0.50
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.46	0.50
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.41	0.50
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.14	0.50
2:C:651:LYS:HD2	9:C:1839:HOH:O	2.11	0.50
3:D:1045:MET:HB2	9:D:9034:HOH:O	2.11	0.50
3:D:704:ARG:HG3	3:D:736:PHE:HB3	1.93	0.50
2:C:612:VAL:HG22	2:C:622:GLU:HB2	1.93	0.50
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.77	0.50
3:D:790:TYR:HD2	3:D:906:GLN:O	1.94	0.50
3:N:643:GLY:CA	3:N:727:GLN:HB2	2.41	0.50
2:M:709:GLU:HG3	2:M:824:ARG:HG2	1.93	0.50
3:D:156:GLU:CD	3:D:156:GLU:N	2.64	0.50
3:N:1472:ILE:O	3:N:1477:GLY:HA3	2.10	0.50
1:L:110:LYS:HG2	1:L:127:LEU:O	2.11	0.50
3:N:1267:ARG:HH12	3:N:1331:ASP:CB	2.24	0.50
2:C:806:LEU:HD22	9:C:1461:HOH:O	2.11	0.50
2:C:267:TYR:CD1	2:C:272:ALA:HB1	2.47	0.50
4:E:40:LEU:HB3	9:E:164:HOH:O	2.11	0.50
3:N:180:LYS:HB3	9:N:9334:HOH:O	2.11	0.50
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.11	0.50
3:N:788:GLY:O	3:N:792:ILE:HG22	2.11	0.50
3:D:407:VAL:HG21	9:D:2098:HOH:O	2.12	0.50
2:M:626:ARG:CB	2:M:639:GLN:HE22	2.12	0.50
2:C:439:CYS:SG	2:C:540:PHE:HB3	2.52	0.50
3:N:860:LEU:H	3:N:860:LEU:HD12	1.76	0.50
2:M:775:ARG:HH12	5:P:421:PHE:HD2	1.59	0.50
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.93	0.50
2:C:15:LEU:HD12	9:C:1190:HOH:O	2.11	0.50
2:C:701:THR:HA	2:C:831:ARG:O	2.11	0.50
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.47	0.50
2:C:1001:VAL:HG23	9:C:1965:HOH:O	2.10	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:392:VAL:CG1	5:F:396:ARG:HE	2.24	0.50
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.93	0.50
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.12	0.50
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.50
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.27	0.50
3:N:36:THR:HG21	9:N:9656:HOH:O	2.12	0.50
5:F:153:PRO:HG2	5:F:154:LYS:H	1.77	0.50
5:F:202:TYR:HB2	5:F:212:LEU:HD21	1.93	0.50
3:D:768:ASN:N	3:D:768:ASN:HD22	2.09	0.50
2:M:322:VAL:HG12	9:M:1579:HOH:O	2.11	0.50
2:C:757:GLY:HA2	2:C:789:SER:OG	2.12	0.50
3:N:126:VAL:O	3:N:132:TYR:HD1	1.95	0.50
2:C:396:ASP:HA	2:C:633:GLN:OE1	2.12	0.50
5:F:321:ILE:HG22	5:F:322:GLY:N	2.27	0.50
2:C:686:ASP:HB3	9:C:1260:HOH:O	2.11	0.50
3:D:135:LEU:HA	3:D:453:ASP:O	2.12	0.50
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.59	0.50
2:C:194:VAL:HG21	2:C:221:LEU:O	2.11	0.50
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.42	0.50
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.25	0.50
1:K:26:GLU:CB	1:K:194:LYS:HG3	2.42	0.50
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.11	0.50
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.27	0.50
1:A:19:GLU:O	1:A:200:TRP:HA	2.11	0.50
2:C:251:ASP:HB3	2:C:252:LYS:CE	2.41	0.50
3:D:229:ALA:HB1	9:D:9029:HOH:O	2.11	0.50
3:N:756:GLN:O	3:N:760:ARG:HG2	2.12	0.50
3:D:603:LEU:O	3:D:606:ILE:HB	2.11	0.50
3:D:1209:LEU:HG	3:D:1219:GLU:OE2	2.11	0.50
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.47	0.50
3:D:1198:TYR:HE2	3:D:1377:LYS:HE3	1.76	0.50
2:M:717:LEU:HD23	2:M:717:LEU:N	2.27	0.50
5:P:126:LEU:HB3	9:P:4172:HOH:O	2.11	0.50
2:C:688:ILE:CD1	2:C:847:GLY:HA3	2.41	0.50
1:L:24:VAL:HG22	1:L:196:THR:OG1	2.12	0.50
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.38	0.50
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.93	0.50
1:K:218:LEU:O	1:K:222:LEU:HD23	2.12	0.50
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.94	0.50
2:C:975:TYR:N	2:C:975:TYR:CD1	2.79	0.50
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:487:ALA:HB3	9:N:9145:HOH:O	2.12	0.50
3:N:411:THR:HG21	9:N:9050:HOH:O	2.12	0.50
1:B:90:LEU:HD23	9:B:411:HOH:O	2.10	0.50
3:D:12:LEU:HB2	9:D:9124:HOH:O	2.11	0.50
5:F:385:GLU:O	5:F:397:ILE:HD13	2.12	0.50
3:D:211:VAL:HG11	9:D:9609:HOH:O	2.12	0.50
2:M:676:ILE:HD12	2:M:871:LEU:HB2	1.92	0.50
4:O:48:MET:CB	4:O:54:LEU:HB2	2.42	0.50
5:P:419:ARG:O	5:P:421:PHE:N	2.45	0.50
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.42	0.50
2:M:54:ILE:HG23	2:M:54:ILE:O	2.12	0.50
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.41	0.50
2:C:946:ARG:HB3	9:C:1400:HOH:O	2.12	0.50
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.94	0.50
1:L:80:LEU:HD23	3:N:867:ARG:NH2	2.27	0.50
3:N:1194:CYS:HB3	3:N:1373:ARG:HH22	1.75	0.50
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.25	0.50
5:F:273:ARG:HG2	5:F:276:ARG:NH1	2.27	0.50
4:E:19:LEU:O	4:E:23:VAL:HG23	2.12	0.50
2:C:732:ALA:O	2:C:735:ARG:HG3	2.12	0.50
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.77	0.50
1:B:148:VAL:HA	9:B:597:HOH:O	2.12	0.50
2:C:1019:GLN:HE21	2:C:1019:GLN:H	1.59	0.50
1:K:132:LEU:HD12	1:K:132:LEU:N	2.26	0.50
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.50
3:N:730:PRO:HA	3:N:733:CYS:SG	2.52	0.50
3:D:401:TYR:CE2	3:D:415:VAL:HG13	2.47	0.50
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.42	0.50
1:B:39:PRO:O	1:B:43:ILE:HG12	2.12	0.50
3:D:115:LEU:HD21	3:D:465:LEU:HD21	1.94	0.50
3:N:1086:LEU:HD12	9:N:9724:HOH:O	2.12	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.30	0.50
2:C:333:ILE:HD12	2:C:333:ILE:N	2.26	0.50
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.41	0.50
2:M:676:ILE:O	3:N:948:THR:HG23	2.12	0.50
3:D:1318:TYR:HB3	9:D:9944:HOH:O	2.11	0.50
2:C:513:VAL:HG13	9:C:1221:HOH:O	2.12	0.50
1:L:159:LYS:HE3	9:L:5309:HOH:O	2.11	0.50
2:C:590:ASP:HB2	9:C:1272:HOH:O	2.11	0.50
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.42	0.50
2:M:603:VAL:HG23	2:M:647:GLN:O	2.11	0.50
3:D:892:ASP:HB3	3:D:895:VAL:HB	1.94	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.11	0.50
3:D:690:ALA:O	3:D:694:VAL:HG23	2.11	0.50
3:N:1425:THR:HG23	3:N:1426:LYS:H	1.77	0.50
4:O:61:GLU:C	4:O:65:MET:HE2	2.32	0.50
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.50
2:M:284:ARG:HB2	9:M:1270:HOH:O	2.12	0.50
3:D:407:VAL:HG11	9:D:9652:HOH:O	2.11	0.50
2:C:17:PRO:O	2:C:20:GLU:HB3	2.11	0.50
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.76	0.50
1:L:226:SER:O	1:L:228:PRO:HD3	2.12	0.50
2:M:73:LEU:HD12	2:M:73:LEU:O	2.12	0.50
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.94	0.50
5:P:297:PRO:HB3	9:P:5408:HOH:O	2.11	0.50
3:D:827:ILE:O	3:D:837:GLY:HA3	2.12	0.50
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.94	0.49
2:C:395:LYS:HE3	2:C:403:SER:HB2	1.94	0.49
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.49
2:M:438:ILE:CD1	2:M:467:ILE:HD12	2.42	0.49
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.27	0.49
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.42	0.49
5:F:247:ILE:O	5:F:251:ILE:HG13	2.11	0.49
2:C:941:VAL:O	2:C:944:LEU:HB2	2.12	0.49
3:N:448:GLU:HG3	9:N:9605:HOH:O	2.12	0.49
1:B:91:ASN:O	1:B:94:LEU:HD12	2.12	0.49
2:M:71:TYR:HA	9:M:1826:HOH:O	2.11	0.49
9:C:1814:HOH:O	3:D:630:VAL:HG21	2.12	0.49
3:N:1485:GLN:HE21	4:O:80:VAL:N	2.07	0.49
1:K:213:GLN:O	1:K:217:ILE:HG13	2.12	0.49
1:L:127:LEU:HA	9:L:5627:HOH:O	2.11	0.49
5:P:153:PRO:HG3	9:P:7043:HOH:O	2.13	0.49
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.12	0.49
1:L:7:LYS:HA	9:L:3817:HOH:O	2.12	0.49
1:A:88:ARG:NH1	1:A:90:LEU:HD21	2.27	0.49
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.93	0.49
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.76	0.49
3:D:590:PRO:HG2	9:D:9991:HOH:O	2.11	0.49
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.26	0.49
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.42	0.49
1:A:216:GLU:HG2	9:A:416:HOH:O	2.12	0.49
2:M:74:GLY:O	2:M:76:PRO:HD3	2.12	0.49
3:D:844:ALA:O	3:D:867:ARG:HB3	2.11	0.49
3:N:185:VAL:HG13	9:N:2296:HOH:O	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:624:ASP:HB3	3:N:625:TYR:HD1	1.75	0.49
5:P:214:GLN:O	5:P:217:ASN:HB2	2.13	0.49
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.93	0.49
2:M:139:GLN:HE22	2:M:415:PRO:CG	2.23	0.49
2:C:159:ILE:HG22	9:C:2004:HOH:O	2.12	0.49
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.36	0.49
2:C:281:LEU:CD1	2:C:306:THR:HA	2.42	0.49
1:B:185:ARG:HB2	9:B:530:HOH:O	2.11	0.49
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.42	0.49
2:C:80:GLN:O	2:C:83:CYS:HB2	2.12	0.49
1:K:198:ARG:C	1:K:199:ILE:HD12	2.32	0.49
3:N:1045:MET:HB3	3:N:1072:ILE:HG22	1.93	0.49
3:D:6:ARG:HG3	3:D:7:LYS:HG3	1.93	0.49
3:D:897:TRP:CZ3	3:D:902:LEU:HD21	2.47	0.49
3:D:60:CYS:HB3	9:D:9088:HOH:O	2.12	0.49
3:N:388:HIS:H	5:P:97:GLU:HG3	1.77	0.49
3:N:1429:LEU:HG	3:N:1441:GLN:HB2	1.93	0.49
2:M:821:GLU:HB2	9:M:1696:HOH:O	2.13	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.49
2:C:364:GLU:HB3	9:C:1329:HOH:O	2.12	0.49
4:E:43:GLU:HG2	4:E:44:GLU:H	1.77	0.49
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.36	0.49
2:C:234:ALA:HA	9:C:1236:HOH:O	2.12	0.49
1:A:192:LEU:HA	9:A:345:HOH:O	2.12	0.49
1:A:27:PRO:HG2	1:A:186:LEU:CD2	2.39	0.49
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.77	0.49
2:M:561:GLY:HA3	2:M:842:ARG:O	2.12	0.49
5:P:361:LEU:HD23	5:P:362:SER:N	2.27	0.49
2:M:920:GLN:HG2	9:M:1233:HOH:O	2.11	0.49
4:E:26:ARG:HE	4:E:30:LEU:CD1	2.24	0.49
1:L:45:LEU:HD12	9:L:5472:HOH:O	2.12	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.47	0.49
2:C:498:GLN:O	2:C:501:THR:HG23	2.12	0.49
3:N:482:LYS:HA	3:N:489:ARG:HH21	1.77	0.49
1:A:208:LEU:CD1	1:A:212:ASN:HD21	2.24	0.49
1:A:212:ASN:O	1:A:215:VAL:HG22	2.13	0.49
4:E:54:LEU:HG	4:E:58:PRO:CG	2.41	0.49
3:D:1086:LEU:HD11	6:D:8001:STD:H6	1.94	0.49
3:N:1075:HIS:O	3:N:1079:LYS:HD3	2.12	0.49
5:F:295:MET:HG3	9:F:706:HOH:O	2.12	0.49
3:D:971:LEU:HD11	3:D:992:ILE:HD13	1.94	0.49
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1342:GLU:HB3	9:N:9279:HOH:O	2.11	0.49
2:M:743:VAL:HG11	2:M:800:VAL:HG21	1.95	0.49
3:D:1164:ARG:HG3	9:D:9760:HOH:O	2.12	0.49
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.41	0.49
1:K:197:LEU:H	1:K:197:LEU:HD23	1.76	0.49
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.12	0.49
3:N:1254:GLN:OE1	3:N:1355:VAL:HG13	2.13	0.49
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.47	0.49
5:P:185:GLN:O	5:P:189:GLU:HG3	2.12	0.49
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.94	0.49
3:N:27:GLU:N	9:N:9381:HOH:O	2.45	0.49
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.93	0.49
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.94	0.49
3:N:875:THR:HB	9:N:9245:HOH:O	2.13	0.49
3:D:601:ARG:HE	3:D:606:ILE:HA	1.76	0.49
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.46	0.49
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.11	0.49
3:D:393:ILE:N	3:D:393:ILE:HD12	2.28	0.49
3:N:96:ALA:HB1	3:N:554:LEU:HD12	1.94	0.49
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.47	0.49
2:C:101:ILE:HG22	2:C:102:HIS:N	2.27	0.49
3:N:616:GLN:HA	9:N:9336:HOH:O	2.12	0.49
3:N:828:LYS:N	3:N:828:LYS:HD3	2.28	0.49
3:D:178:LEU:HD11	9:D:9048:HOH:O	2.12	0.49
2:C:384:GLU:HA	2:C:388:ARG:CZ	2.42	0.49
3:D:586:ARG:HG2	9:D:9444:HOH:O	2.11	0.49
3:D:480:GLU:O	3:D:484:PRO:HD2	2.11	0.49
4:O:61:GLU:O	4:O:65:MET:HG3	2.11	0.49
2:C:249:LYS:HE3	9:C:1212:HOH:O	2.11	0.49
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.77	0.49
2:C:767:PRO:HG2	9:C:1376:HOH:O	2.11	0.49
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.93	0.49
2:C:195:LEU:CD2	2:C:238:LEU:HG	2.42	0.49
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.27	0.49
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.93	0.49
1:A:50:GLY:O	1:A:146:ARG:HA	2.12	0.49
3:D:1432:LYS:HB2	9:D:9247:HOH:O	2.12	0.49
1:L:50:GLY:O	1:L:146:ARG:HA	2.13	0.49
5:F:166:LEU:HD22	5:F:170:HIS:HB2	1.94	0.49
1:L:26:GLU:CB	1:L:194:LYS:HG3	2.38	0.49
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.93	0.49
2:M:589:ARG:CB	2:M:589:ARG:HH11	2.22	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1059:SER:HB3	9:N:9480:HOH:O	2.11	0.49
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.27	0.49
3:N:906:GLN:HA	3:N:906:GLN:OE1	2.11	0.49
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.42	0.49
1:L:99:LEU:HD21	1:L:122:ILE:HD11	1.94	0.49
2:M:51:THR:CB	2:M:348:LEU:HD23	2.42	0.49
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.13	0.49
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.94	0.49
9:C:1967:HOH:O	3:D:618:LEU:HD22	2.12	0.49
3:N:780:LYS:HB2	3:N:780:LYS:NZ	2.27	0.49
1:A:74:ASP:O	1:A:78:ILE:HG13	2.11	0.49
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.41	0.49
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.13	0.49
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.48	0.49
5:F:181:GLU:O	5:F:184:ARG:HB3	2.12	0.49
2:M:1042:ALA:CB	3:N:710:ARG:HD3	2.43	0.49
3:N:1211:MET:SD	4:O:16:LYS:HD2	2.52	0.49
2:M:227:PHE:HB3	9:M:1419:HOH:O	2.13	0.49
2:C:641:PRO:HD2	9:C:1276:HOH:O	2.13	0.49
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.93	0.49
2:C:516:ARG:CD	2:C:521:PRO:HA	2.43	0.49
2:M:517:ARG:HD3	2:M:522:VAL:HG11	1.93	0.49
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.48	0.49
2:C:374:ASN:HB2	9:C:1848:HOH:O	2.13	0.49
3:D:93:ILE:HG12	3:D:548:ILE:CD1	2.43	0.49
2:C:930:LYS:HA	9:C:1256:HOH:O	2.12	0.49
3:D:404:GLU:HB3	3:D:414:ARG:HD2	1.95	0.49
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.48	0.49
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.12	0.49
3:D:815:ALA:HA	9:D:9402:HOH:O	2.12	0.49
3:D:664:LYS:HG2	9:D:9879:HOH:O	2.12	0.49
1:A:62:LEU:HD23	1:A:163:ASN:HD21	1.77	0.49
2:M:37:GLU:HB2	9:M:2125:HOH:O	2.13	0.49
3:D:962:GLN:HG3	9:D:2033:HOH:O	2.12	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.42	0.49
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.42	0.49
2:C:161:SER:HB2	9:C:1193:HOH:O	2.13	0.49
5:F:402:ASN:O	5:F:406:ARG:HG3	2.13	0.49
1:L:161:ARG:HG3	9:L:4789:HOH:O	2.11	0.49
2:M:571:LEU:HA	2:M:701:THR:O	2.12	0.49
1:B:87:VAL:HG21	1:B:144:VAL:CG1	2.36	0.49
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.77	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:863:ASP:O	2:M:865:THR:N	2.45	0.49
3:N:703:ASN:ND2	3:N:704:ARG:H	2.10	0.49
3:N:950:GLY:O	3:N:953:ASP:HB2	2.12	0.49
3:D:573:MET:SD	5:F:210:LEU:HB3	2.52	0.49
3:D:68:PHE:O	3:D:71:LYS:HG2	2.13	0.49
1:A:209:GLU:O	1:A:213:GLN:HG3	2.12	0.49
3:N:820:GLU:HA	3:N:825:ALA:O	2.12	0.49
1:B:176:ARG:HH22	3:D:884:ARG:CD	2.23	0.49
2:C:1004:LYS:HE3	2:C:1027:PHE:CE1	2.48	0.49
1:A:208:LEU:HD11	1:A:212:ASN:HD21	1.77	0.49
2:M:34:VAL:HG12	9:M:1886:HOH:O	2.11	0.49
2:M:1107:ASN:HA	9:M:1260:HOH:O	2.13	0.49
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.42	0.49
3:N:945:SER:OG	3:N:947:ILE:HG23	2.13	0.49
3:D:473:LEU:HD21	3:D:495:ARG:NE	2.28	0.49
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.95	0.49
3:D:986:ARG:HD2	9:D:9742:HOH:O	2.11	0.49
1:A:103:ALA:HB1	1:A:107:LYS:HD3	1.94	0.49
2:C:745:ILE:HD11	9:C:1385:HOH:O	2.12	0.49
3:D:169:TYR:N	3:D:170:PRO:CD	2.76	0.49
2:M:264:PRO:HB3	2:M:289:THR:HB	1.93	0.49
2:C:630:ARG:HH21	2:C:705:ILE:CG2	2.18	0.49
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.43	0.49
2:C:160:ALA:O	2:C:173:ASP:HA	2.12	0.49
3:N:135:LEU:HA	3:N:453:ASP:O	2.13	0.49
3:N:57:GLU:HG2	3:N:58:CYS:N	2.27	0.49
3:N:152:LEU:HD23	3:N:152:LEU:N	2.21	0.49
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.42	0.49
1:L:207:PRO:HD2	9:L:4122:HOH:O	2.12	0.49
3:D:65:ARG:H	3:D:68:PHE:HZ	1.61	0.49
9:C:1210:HOH:O	3:D:1048:PRO:HG2	2.11	0.49
3:D:706:PRO:HD2	9:D:9170:HOH:O	2.12	0.49
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.47	0.49
2:C:254:VAL:HA	2:C:257:VAL:HG23	1.95	0.49
3:N:1115:THR:C	9:N:9343:HOH:O	2.50	0.49
3:D:126:VAL:O	3:D:132:TYR:HD1	1.96	0.49
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.27	0.49
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.43	0.49
5:F:151:LEU:HB2	5:F:155:THR:H	1.78	0.49
5:F:245:GLN:HB3	9:F:604:HOH:O	2.13	0.49
1:K:86:VAL:HG23	9:K:4248:HOH:O	2.13	0.49
2:M:3:ILE:HB	9:M:2130:HOH:O	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.43	0.49
3:N:212:ARG:HD2	9:N:9466:HOH:O	2.13	0.49
3:N:793:THR:HA	9:N:9545:HOH:O	2.12	0.49
1:L:189:ARG:HB3	9:L:3718:HOH:O	2.12	0.49
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.13	0.49
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.13	0.49
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.28	0.49
3:N:52:PRO:HG2	3:N:79:GLU:O	2.12	0.49
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.13	0.49
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.12	0.49
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.43	0.49
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.94	0.49
5:F:131:VAL:HG22	5:F:178:ARG:HG2	1.95	0.49
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.93	0.49
1:L:143:ARG:NH1	1:L:158:ILE:HD12	2.28	0.49
2:M:52:PHE:HD2	9:M:1848:HOH:O	1.95	0.49
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.77	0.49
2:M:710:ILE:HB	2:M:790:LEU:CD1	2.41	0.49
2:C:79:PRO:HD2	2:C:82:GLU:HB2	1.95	0.49
3:N:1402:ALA:HB2	3:N:1415:VAL:HG23	1.95	0.49
1:A:88:ARG:CZ	1:A:90:LEU:HD21	2.43	0.49
1:L:123:MET:HA	9:L:6518:HOH:O	2.12	0.49
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.94	0.49
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.94	0.49
4:O:43:GLU:HG2	4:O:44:GLU:H	1.78	0.49
5:F:387:GLY:HA2	9:F:752:HOH:O	2.12	0.49
3:N:702:LEU:HD23	3:N:745:MET:HE1	1.95	0.49
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.48	0.49
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.49
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.78	0.49
3:D:1135:ARG:HD3	9:D:2510:HOH:O	2.13	0.49
3:D:793:THR:HG22	3:D:879:ARG:HA	1.95	0.49
1:K:67:THR:HG23	2:M:627:ARG:HH21	1.78	0.49
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.32	0.49
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.43	0.49
2:C:350:ARG:CB	2:C:350:ARG:HH11	2.19	0.49
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.75	0.49
3:D:136:ASP:HB3	9:D:2221:HOH:O	2.13	0.49
4:O:94:PRO:HA	9:O:3788:HOH:O	2.12	0.49
1:B:208:LEU:HD13	1:B:212:ASN:HD21	1.78	0.49
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.15	0.49
3:N:440:VAL:HG12	3:N:441:ARG:N	2.27	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.95	0.49
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.48	0.49
2:M:532:MET:HG3	2:M:533:ASP:H	1.76	0.49
2:M:368:THR:HG23	9:M:1288:HOH:O	2.12	0.49
5:F:277:GLN:HG3	9:F:492:HOH:O	2.11	0.49
3:D:440:VAL:HA	9:D:9739:HOH:O	2.13	0.49
3:D:19:ARG:NH2	3:D:94:GLU:OE2	2.46	0.49
2:M:220:GLY:HA3	9:M:1230:HOH:O	2.12	0.49
1:A:185:ARG:O	1:A:185:ARG:HD2	2.13	0.49
2:C:429:ASP:HA	3:D:1078:ARG:HB3	1.94	0.49
2:M:308:ARG:HB3	9:M:1174:HOH:O	2.13	0.48
3:N:44:LEU:HG	9:N:9441:HOH:O	2.13	0.48
2:C:1059:ASP:CG	2:C:1062:GLY:HA3	2.32	0.48
5:P:404:ALA:O	5:P:408:LEU:HD23	2.12	0.48
2:M:19:THR:O	2:M:23:VAL:HG23	2.13	0.48
3:D:131:LYS:HB3	3:D:456:MET:CE	2.43	0.48
2:M:66:LEU:HD23	9:M:1162:HOH:O	2.13	0.48
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.95	0.48
1:A:86:VAL:HG21	1:A:202:ASP:O	2.13	0.48
3:D:132:TYR:HD2	9:D:9028:HOH:O	1.95	0.48
3:D:1056:PRO:HD2	9:D:9713:HOH:O	2.12	0.48
5:P:392:VAL:HG22	9:P:5677:HOH:O	2.13	0.48
1:A:97:VAL:HG23	9:A:513:HOH:O	2.13	0.48
5:F:143:HIS:HB2	5:F:152:ASP:OD1	2.13	0.48
1:B:19:GLU:HB2	9:B:416:HOH:O	2.13	0.48
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.48
3:D:986:ARG:HG3	3:D:990:ASP:OD2	2.12	0.48
2:C:429:ASP:HB3	9:D:9038:HOH:O	2.12	0.48
3:D:482:LYS:HD3	9:D:9448:HOH:O	2.12	0.48
2:C:400:PRO:N	9:C:1308:HOH:O	2.45	0.48
1:B:10:VAL:HA	9:B:434:HOH:O	2.13	0.48
3:D:960:LYS:HZ1	3:D:1041:LEU:HB3	1.78	0.48
2:M:192:PRO:HD3	9:M:1291:HOH:O	2.12	0.48
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.95	0.48
3:D:1406:ARG:HH11	3:D:1406:ARG:HG2	1.78	0.48
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.43	0.48
2:M:437:ARG:HH21	2:M:488:ALA:HA	1.74	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.43	0.48
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.95	0.48
3:N:28:LYS:HB2	3:N:41:ARG:CZ	2.43	0.48
3:D:598:ARG:NH1	5:F:320:PRO:HD3	2.27	0.48
5:F:318:GLU:HA	9:F:522:HOH:O	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:82:ARG:HA	9:F:440:HOH:O	2.12	0.48
3:N:1291:SER:HB3	9:N:9004:HOH:O	2.11	0.48
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.95	0.48
1:B:206:THR:HG23	1:B:209:GLU:H	1.78	0.48
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.48
3:N:83:SER:O	3:N:86:ARG:HB3	2.13	0.48
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.24	0.48
2:M:602:GLU:HA	2:M:647:GLN:O	2.13	0.48
1:A:219:ARG:NH2	1:B:223:THR:HG22	2.24	0.48
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.42	0.48
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.41	0.48
3:D:200:ASP:HB3	9:D:2480:HOH:O	2.13	0.48
2:C:833:LEU:HD12	2:C:834:GLN:H	1.77	0.48
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.94	0.48
3:D:656:PHE:HB3	3:D:694:VAL:CG1	2.44	0.48
1:B:173:PRO:HG3	9:B:347:HOH:O	2.13	0.48
3:D:890:VAL:HG13	3:D:926:LYS:CD	2.43	0.48
2:C:496:ILE:HD12	2:C:496:ILE:H	1.78	0.48
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.94	0.48
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.95	0.48
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	2.14	0.48
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.12	0.48
5:P:100:VAL:HG11	9:P:5340:HOH:O	2.12	0.48
2:C:22:GLN:O	2:C:121:MET:HE1	2.13	0.48
2:C:182:VAL:HG23	9:C:1307:HOH:O	2.13	0.48
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.19	0.48
2:C:341:THR:CG2	2:C:345:ARG:HH21	2.27	0.48
1:L:23:PHE:O	1:L:196:THR:HA	2.14	0.48
3:N:1346:ARG:HA	3:N:1346:ARG:NE	2.28	0.48
2:M:1015:LEU:HA	5:P:335:ASP:CB	2.40	0.48
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.93	0.48
3:D:535:PHE:HB2	9:F:515:HOH:O	2.12	0.48
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.94	0.48
1:A:125:PRO:HB2	9:A:439:HOH:O	2.13	0.48
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.48	0.48
1:K:191:ASP:O	1:K:192:LEU:HD23	2.13	0.48
2:C:105:THR:HG21	9:C:1762:HOH:O	2.12	0.48
5:P:256:ARG:CZ	5:P:256:ARG:HB3	2.43	0.48
3:N:490:ALA:HB2	9:N:2018:HOH:O	2.13	0.48
2:M:131:GLY:N	9:M:1177:HOH:O	2.46	0.48
5:F:416:ARG:HD2	5:F:419:ARG:HB3	1.95	0.48
1:K:50:GLY:O	1:K:146:ARG:HA	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:777:PRO:HD2	3:N:912:LYS:HG3	1.94	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.13	0.48
2:M:911:GLU:O	2:M:915:LYS:HG2	2.14	0.48
2:M:193:LEU:HD23	2:M:307:LEU:HD13	1.94	0.48
3:N:427:VAL:HG13	9:N:9964:HOH:O	2.13	0.48
3:D:82:LYS:O	3:D:85:VAL:HG23	2.13	0.48
3:N:1262:LEU:HD23	3:N:1352:ILE:HG12	1.95	0.48
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.95	0.48
2:C:750:LYS:HD2	9:C:1684:HOH:O	2.14	0.48
3:D:591:VAL:HG22	9:D:9420:HOH:O	2.11	0.48
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.94	0.48
2:C:98:LEU:HA	9:C:1321:HOH:O	2.12	0.48
2:M:31:GLN:HG2	9:M:1193:HOH:O	2.13	0.48
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.95	0.48
2:M:1007:ALA:HB1	3:N:652:LEU:HD22	1.95	0.48
4:O:84:ARG:HG3	4:O:84:ARG:O	2.13	0.48
2:M:876:VAL:O	2:M:879:ARG:O	2.31	0.48
2:M:799:ILE:HD13	2:M:799:ILE:N	2.27	0.48
2:C:756:VAL:HG21	2:C:823:VAL:HG11	1.95	0.48
2:C:44:ILE:O	2:C:48:PHE:HB2	2.13	0.48
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.95	0.48
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.13	0.48
5:P:169:GLU:H	5:P:169:GLU:CD	2.17	0.48
2:M:585:GLU:HG3	2:M:665:PHE:CE2	2.48	0.48
1:B:50:GLY:O	1:B:146:ARG:HA	2.13	0.48
2:C:928:LYS:HE3	9:C:1852:HOH:O	2.13	0.48
3:D:930:LEU:O	3:D:934:LEU:HG	2.14	0.48
4:E:77:GLU:HG3	9:E:139:HOH:O	2.12	0.48
2:M:144:PRO:HB2	2:M:267:TYR:CE1	2.47	0.48
2:M:464:LEU:HB2	9:M:1673:HOH:O	2.12	0.48
3:N:1086:LEU:HA	6:N:8002:STD:H30	1.96	0.48
5:F:132:ARG:HD3	5:F:181:GLU:OE1	2.14	0.48
3:N:880:ILE:HD13	3:N:880:ILE:O	2.13	0.48
3:N:523:ASP:O	3:N:526:PRO:HG3	2.13	0.48
5:F:397:ILE:HG21	9:F:553:HOH:O	2.13	0.48
2:M:925:TYR:C	2:M:925:TYR:CD1	2.87	0.48
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.94	0.48
5:F:256:ARG:HD3	5:F:260:ILE:HD12	1.95	0.48
3:D:911:LEU:O	3:D:915:VAL:HG23	2.14	0.48
2:C:569:VAL:HG12	2:C:996:LYS:O	2.14	0.48
2:C:274:ARG:CB	2:C:285:LEU:HD13	2.43	0.48
2:C:100:LEU:HD12	2:C:101:ILE:O	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:996:TRP:O	3:D:999:THR:HG22	2.13	0.48
3:D:696:HIS:CD2	4:E:59:ASN:HB2	2.48	0.48
3:N:1459:LEU:HD22	3:N:1465:ASN:HD22	1.79	0.48
3:N:715:ALA:O	3:N:764:LEU:HD12	2.13	0.48
2:C:975:TYR:N	2:C:975:TYR:HD1	2.12	0.48
3:D:926:LYS:HG3	9:D:2130:HOH:O	2.14	0.48
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.43	0.48
3:D:1413:THR:HG21	9:D:9072:HOH:O	2.14	0.48
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.28	0.48
9:N:9491:HOH:O	5:P:318:GLU:HB3	2.13	0.48
3:D:412:GLY:O	3:D:421:LEU:HB3	2.14	0.48
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.48	0.48
2:M:333:ILE:O	2:M:465:GLY:HA3	2.12	0.48
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.17	0.48
2:C:52:PHE:HE1	2:C:66:LEU:HG	1.79	0.48
5:P:321:ILE:HG13	5:P:329:TYR:CA	2.43	0.48
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.62	0.48
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.43	0.48
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.44	0.48
3:N:551:ASN:O	3:N:555:LYS:HG3	2.13	0.48
5:P:141:VAL:O	5:P:145:PRO:HD2	2.13	0.48
1:B:199:ILE:CD1	1:B:211:LEU:HD13	2.42	0.48
3:D:1057:VAL:HG22	3:D:1069:GLU:HB3	1.95	0.48
5:P:403:LYS:NZ	5:P:406:ARG:HB2	2.28	0.48
3:D:475:LYS:O	3:D:479:GLU:HG2	2.13	0.48
3:D:141:ILE:CD1	3:D:450:TYR:HB2	2.40	0.48
2:M:495:THR:CG2	2:M:517:ARG:HE	2.27	0.48
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.95	0.48
2:C:405:ARG:O	2:C:408:ARG:HG3	2.14	0.48
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.14	0.48
5:F:399:GLN:O	5:F:403:LYS:HB2	2.14	0.48
1:A:117:VAL:HG12	9:A:324:HOH:O	2.13	0.48
3:N:799:LYS:O	3:N:799:LYS:HD3	2.13	0.48
5:F:154:LYS:HB2	9:F:528:HOH:O	2.13	0.48
4:E:31:LEU:HD12	4:E:32:ARG:CD	2.43	0.48
2:M:1014:SER:HB3	2:M:1017:THR:O	2.14	0.48
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.13	0.48
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.31	0.48
3:N:651:GLU:HG2	9:N:9511:HOH:O	2.14	0.48
2:M:769:PRO:HB2	9:M:1243:HOH:O	2.14	0.48
3:N:1252:ILE:HD13	9:N:9875:HOH:O	2.12	0.48
2:C:242:LEU:HD23	9:C:1166:HOH:O	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:186:VAL:HG13	3:N:187:LYS:N	2.28	0.48
1:A:26:GLU:HG2	1:A:27:PRO:HA	1.96	0.48
1:A:26:GLU:HG2	1:A:27:PRO:CA	2.43	0.48
5:P:184:ARG:O	5:P:188:ILE:HG13	2.14	0.48
3:D:661:MET:HA	3:D:666:ILE:CD1	2.43	0.48
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.43	0.48
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.53	0.48
5:P:137:GLY:HA2	5:P:140:ARG:HH22	1.78	0.48
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.96	0.48
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.95	0.48
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.34	0.48
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.95	0.48
1:L:80:LEU:HD23	3:N:867:ARG:CZ	2.44	0.48
3:D:646:LYS:HZ2	3:D:688:TRP:HE1	1.60	0.48
5:F:141:VAL:HG23	9:F:544:HOH:O	2.13	0.48
2:C:712:ALA:CB	2:C:820:ARG:HH11	2.27	0.48
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.94	0.48
2:C:585:GLU:O	2:C:588:VAL:HG22	2.13	0.48
2:M:129:ILE:HD12	2:M:134:ARG:HD2	1.95	0.48
2:C:93:PRO:HD2	9:C:1438:HOH:O	2.14	0.48
2:C:26:TYR:HH	2:C:386:PHE:HZ	1.61	0.48
2:C:27:ARG:HG3	9:C:1390:HOH:O	2.14	0.48
5:F:207:LEU:CB	5:F:212:LEU:HD12	2.44	0.48
2:M:832:LYS:HG2	9:M:1238:HOH:O	2.13	0.48
4:E:50:THR:HG23	9:E:222:HOH:O	2.13	0.48
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.49	0.48
2:M:328:LEU:HD23	2:M:437:ARG:CD	2.44	0.48
3:N:64:LYS:HD3	5:P:377:ASP:OD2	2.13	0.48
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.94	0.48
5:F:411:HIS:HB2	9:F:455:HOH:O	2.14	0.48
3:D:395:VAL:HG21	9:D:9114:HOH:O	2.14	0.48
2:M:752:GLY:O	3:N:679:ARG:HG2	2.13	0.48
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.13	0.48
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.96	0.48
2:C:171:TRP:HB2	9:C:1835:HOH:O	2.13	0.48
2:C:15:LEU:HD12	2:C:15:LEU:H	1.79	0.48
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.78	0.48
2:C:831:ARG:HG2	2:C:831:ARG:HH11	1.77	0.48
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.79	0.48
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.26	0.48
2:M:460:ARG:HG2	2:M:460:ARG:HH11	1.78	0.48
3:D:154:THR:HG22	3:D:157:GLU:CD	2.33	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.48
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.77	0.48
1:A:76:VAL:O	1:A:79:ILE:HG13	2.13	0.48
5:P:85:LEU:HB3	9:P:3605:HOH:O	2.14	0.48
2:C:813:VAL:HG11	9:C:1461:HOH:O	2.13	0.48
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.94	0.48
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.96	0.48
2:M:1001:VAL:HA	9:M:1286:HOH:O	2.13	0.48
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.29	0.48
2:M:248:PRO:HG3	9:M:1752:HOH:O	2.14	0.48
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.14	0.48
1:A:162:ILE:HA	9:A:494:HOH:O	2.14	0.48
2:M:268:ASP:HB2	9:M:1657:HOH:O	2.13	0.48
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.96	0.48
2:M:163:ILE:HG13	2:M:163:ILE:O	2.14	0.48
2:M:1115:LEU:HD23	3:N:85:VAL:CG1	2.44	0.48
3:N:1397:LYS:HD3	9:N:2162:HOH:O	2.13	0.48
1:A:29:GLU:HB2	1:A:32:PHE:HD1	1.79	0.48
5:P:350:LEU:HD23	5:P:351:SER:H	1.78	0.48
3:D:83:SER:O	3:D:86:ARG:HB3	2.14	0.48
2:C:1098:ASP:HB3	9:C:1791:HOH:O	2.14	0.48
2:M:439:CYS:HB2	9:M:1316:HOH:O	2.13	0.48
2:M:1018:GLN:HE21	2:M:1063:ARG:NH2	2.12	0.48
3:N:396:VAL:HG22	9:N:9364:HOH:O	2.14	0.48
3:D:1046:GLN:HG3	9:D:9074:HOH:O	2.14	0.48
2:M:1008:ARG:HE	2:M:1028:GLY:CA	2.26	0.48
3:D:441:ARG:O	3:D:443:VAL:N	2.46	0.48
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.48	0.48
2:M:513:VAL:HG12	9:M:1155:HOH:O	2.13	0.48
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.43	0.48
5:F:154:LYS:HG2	9:F:744:HOH:O	2.14	0.48
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.13	0.48
3:N:781:PRO:HB3	3:N:785:ILE:CG2	2.43	0.48
3:N:819:GLY:HA2	9:N:9097:HOH:O	2.13	0.48
3:D:1505:ALA:HB3	9:D:9104:HOH:O	2.12	0.48
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.14	0.48
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.17	0.48
3:N:9:ARG:HA	3:N:1455:LYS:O	2.12	0.48
5:F:109:GLY:O	5:F:112:ALA:HB3	2.14	0.48
5:F:122:LEU:HD23	9:F:445:HOH:O	2.13	0.48
5:F:247:ILE:HG22	5:F:251:ILE:CD1	2.43	0.48
2:M:537:LYS:HG3	2:M:905:ILE:CD1	2.44	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:52:ALA:N	9:B:467:HOH:O	2.47	0.48
3:N:58:CYS:SG	3:N:59:ALA:N	2.87	0.48
3:D:90:MET:CE	3:D:518:PRO:HB3	2.43	0.48
3:D:190:GLU:HG3	3:D:210:ARG:HD3	1.95	0.48
2:M:250:ARG:HG2	9:M:2036:HOH:O	2.12	0.48
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.95	0.48
9:M:1452:HOH:O	5:P:423:ASP:HB3	2.14	0.48
1:A:54:THR:HG23	1:A:156:HIS:CE1	2.47	0.48
3:N:1192:LEU:HD21	3:N:1372:VAL:CG1	2.44	0.48
1:K:23:PHE:O	1:K:196:THR:HA	2.14	0.48
2:M:944:LEU:HD11	2:M:963:LEU:CD2	2.44	0.48
2:M:495:THR:HG23	2:M:517:ARG:HE	1.78	0.48
3:D:175:VAL:HG11	9:D:2479:HOH:O	2.13	0.48
2:C:958:THR:HG21	9:C:1582:HOH:O	2.13	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG11	1.94	0.48
5:P:94:LEU:HD22	5:P:97:GLU:CB	2.43	0.48
5:P:94:LEU:H	5:P:98:GLU:CD	2.16	0.48
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.96	0.48
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.26	0.48
1:B:173:PRO:HA	1:B:202:ASP:OD2	2.14	0.48
2:M:839:LEU:N	2:M:839:LEU:HD23	2.29	0.48
3:D:867:ARG:HD3	9:D:9106:HOH:O	2.14	0.48
3:N:1319:VAL:HG11	3:N:1325:LEU:HD11	1.95	0.48
1:K:90:LEU:HD21	9:K:4206:HOH:O	2.12	0.48
1:A:197:LEU:HD23	1:A:197:LEU:N	2.29	0.48
3:N:431:VAL:HG13	9:N:9125:HOH:O	2.14	0.48
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.95	0.47
2:M:47:ALA:O	2:M:50:GLU:HB3	2.13	0.47
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.28	0.47
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.95	0.47
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.44	0.47
3:D:1312:LEU:HD21	3:D:1327:ARG:HG3	1.94	0.47
3:N:1476:THR:HG23	4:O:21:VAL:CG2	2.41	0.47
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.40	0.47
2:M:253:ALA:HB3	9:M:2036:HOH:O	2.13	0.47
4:O:89:MET:HA	9:O:3549:HOH:O	2.13	0.47
2:C:626:ARG:N	2:C:639:GLN:NE2	2.59	0.47
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.79	0.47
2:M:34:VAL:HB	2:M:38:LYS:CG	2.44	0.47
3:N:628:ARG:HH11	3:N:744:GLN:NE2	2.11	0.47
5:F:154:LYS:O	5:F:158:GLU:HG3	2.14	0.47
3:N:908:LYS:HD3	3:N:1027:GLY:HA3	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.95	0.47
3:D:439:LEU:HD11	9:F:435:HOH:O	2.14	0.47
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.44	0.47
2:C:1113:GLU:HG3	9:C:1553:HOH:O	2.13	0.47
9:M:1567:HOH:O	3:N:89:ARG:HG3	2.13	0.47
3:N:81:THR:HG22	3:N:82:LYS:N	2.29	0.47
2:M:433:THR:O	2:M:437:ARG:HD2	2.14	0.47
2:M:437:ARG:O	2:M:467:ILE:HG21	2.14	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.47
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.95	0.47
3:D:191:LEU:HD12	9:D:9609:HOH:O	2.13	0.47
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.21	0.47
3:N:814:ALA:O	3:N:818:ARG:HG3	2.14	0.47
1:A:156:HIS:CD2	1:A:157:GLY:N	2.81	0.47
2:M:31:GLN:HA	9:M:1193:HOH:O	2.12	0.47
2:C:554:ASP:HB3	9:C:1189:HOH:O	2.14	0.47
2:M:20:GLU:HG3	9:M:1572:HOH:O	2.14	0.47
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.14	0.47
1:K:47:SER:HB3	1:K:217:ILE:HD13	1.96	0.47
2:C:589:ARG:HB2	9:C:1302:HOH:O	2.14	0.47
2:C:863:ASP:O	2:C:865:THR:N	2.47	0.47
2:C:165:LEU:HD13	9:C:1871:HOH:O	2.13	0.47
3:D:960:LYS:NZ	3:D:1041:LEU:HB3	2.29	0.47
2:M:211:LEU:HD11	2:M:308:ARG:HA	1.96	0.47
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.49	0.47
3:D:119:SER:H	3:D:123:LEU:HD13	1.79	0.47
3:N:41:ARG:NH1	3:N:42:ASP:HB2	2.29	0.47
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.95	0.47
3:N:880:ILE:HB	9:N:9245:HOH:O	2.14	0.47
3:N:15:PRO:HA	3:N:18:ILE:CG1	2.43	0.47
3:N:33:ASN:OD1	5:P:259:ARG:HB3	2.15	0.47
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.25	0.47
3:N:1314:LYS:HZ1	3:N:1317:ASP:H	1.61	0.47
2:M:1018:GLN:HE21	2:M:1060:ILE:CD1	2.21	0.47
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.96	0.47
2:C:690:ILE:HD11	2:C:694:LEU:HB2	1.96	0.47
3:N:858:VAL:HA	9:N:9278:HOH:O	2.14	0.47
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.44	0.47
2:C:815:LEU:HD23	9:C:1733:HOH:O	2.14	0.47
1:B:69:PRO:HB2	9:B:413:HOH:O	2.13	0.47
2:M:167:LYS:HD3	2:M:168:ARG:N	2.28	0.47
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.35	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.30	0.47
3:D:799:LYS:H	3:D:826:PRO:HG2	1.79	0.47
3:D:102:ILE:HD12	9:D:9788:HOH:O	2.14	0.47
2:M:299:LYS:HB2	9:M:1182:HOH:O	2.15	0.47
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.96	0.47
2:C:173:ASP:HB3	9:C:1237:HOH:O	2.15	0.47
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.97	0.47
5:F:128:ARG:O	5:F:132:ARG:HG2	2.15	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.47	0.47
2:C:64:LEU:HB2	2:C:359:MET:SD	2.54	0.47
3:N:52:PRO:HD2	3:N:79:GLU:O	2.14	0.47
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.94	0.47
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.45	0.47
3:D:1197:ARG:HH11	3:D:1198:TYR:HD1	1.61	0.47
3:D:1397:LYS:HG2	9:D:9862:HOH:O	2.14	0.47
2:C:710:ILE:CB	2:C:790:LEU:HD13	2.40	0.47
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.41	0.47
3:N:1065:LEU:HD12	3:N:1070:TYR:HB2	1.95	0.47
2:C:575:GLN:HB2	2:C:670:GLN:OE1	2.14	0.47
2:C:292:ARG:HD2	2:C:299:LYS:HD3	1.96	0.47
2:M:80:GLN:O	2:M:83:CYS:HB2	2.14	0.47
3:D:1475:GLY:HA2	4:E:17:TYR:HE1	1.80	0.47
3:N:1051:GLU:HG3	3:N:1051:GLU:H	1.54	0.47
2:M:583:LEU:HD12	2:M:583:LEU:N	2.29	0.47
2:M:127:PHE:O	2:M:133:ASP:HA	2.14	0.47
2:C:140:ILE:HG13	2:C:410:ILE:CG2	2.44	0.47
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.96	0.47
3:D:1268:PRO:HG2	3:D:1329:ALA:HB1	1.97	0.47
5:P:398:ARG:NH1	9:P:6264:HOH:O	2.47	0.47
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.49	0.47
2:M:50:GLU:HG3	9:M:1427:HOH:O	2.15	0.47
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.95	0.47
3:N:1195:GLN:OE1	3:N:1196:THR:N	2.48	0.47
2:C:54:ILE:HA	9:C:1626:HOH:O	2.14	0.47
3:D:454:ALA:C	3:D:455:ARG:HD2	2.35	0.47
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.21	0.47
3:N:170:PRO:HG2	9:N:2108:HOH:O	2.14	0.47
3:D:1084:THR:HA	3:D:1087:ARG:NH1	2.30	0.47
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.44	0.47
3:N:681:ARG:NH1	3:N:681:ARG:HB3	2.30	0.47
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.24	0.47
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1403:LEU:O	3:D:1407:LEU:HD12	2.14	0.47
2:M:402:SER:HA	2:M:566:THR:HG23	1.95	0.47
1:K:19:GLU:CD	1:K:19:GLU:H	2.17	0.47
2:M:941:VAL:O	2:M:944:LEU:HB2	2.14	0.47
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.95	0.47
2:C:376:ARG:HG2	9:C:1987:HOH:O	2.14	0.47
3:N:828:LYS:HB3	9:N:9243:HOH:O	2.15	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.28	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.44	0.47
2:M:1103:ASP:OD1	3:N:3:LYS:HB2	2.14	0.47
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.47
3:D:42:ASP:O	3:D:46:ASP:HB2	2.14	0.47
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.95	0.47
2:M:217:LEU:HG	9:M:1729:HOH:O	2.13	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.47
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.15	0.47
2:C:897:LEU:HB3	2:C:899:GLN:HG2	1.97	0.47
2:C:915:LYS:O	2:C:968:LEU:HD22	2.15	0.47
5:P:93:LEU:HG	5:P:190:ALA:CB	2.44	0.47
1:B:188:GLN:HG3	9:D:9361:HOH:O	2.14	0.47
9:M:1607:HOH:O	3:N:647:ARG:HG3	2.15	0.47
2:M:801:VAL:HG12	9:M:1569:HOH:O	2.13	0.47
2:M:260:LEU:HD21	9:M:1166:HOH:O	2.15	0.47
2:M:290:LEU:HB2	9:M:2147:HOH:O	2.14	0.47
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.44	0.47
3:D:795:VAL:CG1	3:D:863:VAL:HG13	2.40	0.47
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.37	0.47
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.44	0.47
2:M:670:GLN:O	2:M:672:VAL:HG13	2.14	0.47
3:N:861:GLN:H	3:N:861:GLN:CD	2.18	0.47
3:N:861:GLN:N	3:N:861:GLN:CD	2.68	0.47
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.25	0.47
3:N:696:HIS:HB2	4:O:48:MET:HE1	1.95	0.47
3:N:693:GLU:HA	4:O:48:MET:CE	2.44	0.47
5:P:399:GLN:O	5:P:403:LYS:HB2	2.14	0.47
2:C:575:GLN:C	2:C:667:ALA:HB1	2.35	0.47
2:C:679:PHE:C	3:D:943:THR:HG22	2.34	0.47
3:N:1223:ILE:HD12	9:N:9798:HOH:O	2.14	0.47
1:A:128:HIS:HB2	9:A:329:HOH:O	2.14	0.47
2:C:65:VAL:HB	2:C:101:ILE:HB	1.96	0.47
5:F:292:ALA:HB1	5:F:299:TRP:O	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:117:HIS:HD2	9:C:1136:HOH:O	1.97	0.47
2:C:212:GLY:C	2:C:215:GLY:H	2.18	0.47
2:M:44:ILE:HA	2:M:344:PHE:HE1	1.78	0.47
2:C:426:ASP:HB2	9:C:1138:HOH:O	2.15	0.47
3:D:1123:PHE:HA	3:D:1133:ARG:O	2.15	0.47
3:D:41:ARG:HD3	3:D:42:ASP:H	1.80	0.47
1:K:186:LEU:CB	1:K:192:LEU:HD11	2.44	0.47
5:P:287:THR:O	5:P:289:GLU:N	2.46	0.47
2:M:890:LEU:HA	2:M:914:ILE:HD11	1.96	0.47
2:C:918:LEU:HD23	2:C:968:LEU:HA	1.96	0.47
1:L:150:TYR:CE2	3:N:857:ILE:HG13	2.49	0.47
3:N:930:LEU:O	3:N:934:LEU:HG	2.14	0.47
2:C:620:LEU:HD13	2:C:620:LEU:N	2.29	0.47
3:D:385:VAL:HA	9:D:9728:HOH:O	2.15	0.47
5:P:104:ARG:HA	5:P:229:TYR:CE1	2.48	0.47
1:A:122:ILE:N	1:A:122:ILE:HD12	2.29	0.47
3:N:811:GLU:HA	9:N:9613:HOH:O	2.14	0.47
2:M:148:PHE:CZ	2:M:309:TYR:HB3	2.50	0.47
3:N:177:ALA:HB1	3:N:199:LEU:HB3	1.96	0.47
3:N:181:ASP:O	3:N:185:VAL:HG23	2.15	0.47
3:D:427:VAL:HA	9:D:9128:HOH:O	2.14	0.47
2:M:637:LEU:HA	2:M:659:PRO:HG3	1.97	0.47
1:A:14:ARG:HB3	9:A:477:HOH:O	2.13	0.47
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.28	0.47
3:N:139:GLY:HA3	3:N:452:ILE:HD12	1.95	0.47
5:P:375:LEU:HD23	5:P:376:ILE:HG13	1.95	0.47
2:C:328:LEU:HD13	2:C:433:THR:CB	2.40	0.47
5:F:112:ALA:O	5:F:116:LEU:HG	2.14	0.47
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.80	0.47
5:F:319:THR:N	9:F:522:HOH:O	2.46	0.47
3:N:22:SER:HA	3:N:90:MET:O	2.15	0.47
3:N:526:PRO:HB2	5:P:317:LEU:HD11	1.97	0.47
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.14	0.47
2:M:926:PHE:HE1	2:M:929:ARG:NH2	2.13	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.14	0.47
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.29	0.47
2:C:244:PRO:HD3	9:C:1182:HOH:O	2.15	0.47
3:D:139:GLY:H	3:D:147:VAL:HG21	1.80	0.47
1:L:109:VAL:HG21	1:L:138:LEU:HD21	1.97	0.47
1:L:23:PHE:HB2	1:L:197:LEU:HD23	1.95	0.47
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.71	0.47
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.79	0.47
3:D:496:LEU:HD23	9:D:9266:HOH:O	2.15	0.47
2:M:721:ARG:NH2	2:M:783:ARG:HH21	2.09	0.47
2:C:264:PRO:HB3	2:C:289:THR:HB	1.96	0.47
1:K:19:GLU:O	1:K:200:TRP:HA	2.14	0.47
1:A:219:ARG:O	1:A:223:THR:HG23	2.14	0.47
5:P:291:ILE:HG12	5:P:304:VAL:CG1	2.45	0.47
2:M:748:GLU:HB2	9:M:1434:HOH:O	2.14	0.47
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.46	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.15	0.47
3:N:764:LEU:HD12	3:N:765:SER:N	2.30	0.47
5:F:270:LYS:HB3	5:F:295:MET:HE3	1.97	0.47
2:C:480:THR:HG22	2:C:481:ASP:N	2.30	0.47
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.15	0.47
2:M:998:TYR:OH	2:M:1000:MET:HA	2.15	0.47
3:D:625:TYR:CD1	3:D:625:TYR:N	2.83	0.47
5:F:129:GLU:HB3	5:F:142:ARG:HH21	1.80	0.47
1:A:106:PRO:HG3	1:A:133:GLU:O	2.15	0.47
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.14	0.47
3:D:768:ASN:N	3:D:768:ASN:ND2	2.63	0.47
1:L:173:PRO:HG3	9:L:4500:HOH:O	2.15	0.47
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.28	0.47
1:B:121:GLU:HB2	9:B:567:HOH:O	2.13	0.47
5:F:342:VAL:HG21	9:F:789:HOH:O	2.14	0.47
5:F:165:SER:HB3	9:F:743:HOH:O	2.14	0.47
4:O:87:LYS:HD2	9:O:4461:HOH:O	2.15	0.47
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.44	0.47
5:P:263:HIS:HB2	9:P:3994:HOH:O	2.13	0.47
3:N:176:ASP:HA	9:N:9640:HOH:O	2.15	0.47
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.45	0.47
5:P:414:ARG:HD3	9:P:4633:HOH:O	2.15	0.47
1:K:85:LEU:HA	1:K:124:ASN:HD22	1.80	0.47
3:D:1237:THR:HG22	3:D:1238:MET:N	2.30	0.47
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.96	0.47
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.29	0.47
3:N:452:ILE:HG23	3:N:452:ILE:O	2.14	0.47
3:D:44:LEU:O	3:D:525:ARG:NH2	2.47	0.47
2:C:1013:TYR:C	2:C:1021:LEU:HD23	2.35	0.47
5:F:328:PHE:HA	9:F:522:HOH:O	2.14	0.47
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.14	0.47
3:N:704:ARG:CD	3:N:705:ALA:H	2.19	0.47
3:D:568:ARG:O	3:D:572:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1234:THR:HG23	9:D:9918:HOH:O	2.14	0.47
1:B:23:PHE:O	1:B:196:THR:HA	2.15	0.47
1:L:158:ILE:HD13	9:L:5309:HOH:O	2.14	0.47
3:N:1037:GLN:OE1	3:N:1042:ARG:HB3	2.15	0.47
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.15	0.47
3:N:438:ASP:HB2	9:N:2136:HOH:O	2.14	0.47
2:C:589:ARG:HG2	9:C:1768:HOH:O	2.14	0.47
2:M:385:PHE:HA	9:M:1703:HOH:O	2.14	0.47
1:L:76:VAL:HA	1:L:79:ILE:HG12	1.95	0.47
2:M:137:VAL:O	2:M:391:LEU:HD21	2.14	0.47
3:N:528:VAL:HG12	3:N:529:GLN:N	2.30	0.47
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.96	0.47
3:N:607:LEU:HA	3:N:613:ARG:HB2	1.97	0.47
3:N:758:GLU:OE1	4:O:20:THR:HG21	2.14	0.47
5:F:226:LYS:HA	9:F:842:HOH:O	2.14	0.47
2:C:634:GLY:HA3	9:C:2212:HOH:O	2.14	0.47
4:O:52:GLU:HG2	9:O:3988:HOH:O	2.15	0.47
1:A:72:LYS:HA	2:C:608:GLY:CA	2.45	0.47
1:A:175:ARG:HB3	9:A:478:HOH:O	2.15	0.47
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.45	0.47
2:M:260:LEU:HA	2:M:291:ALA:CB	2.45	0.47
5:P:218:GLN:NE2	9:P:5398:HOH:O	2.48	0.47
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.44	0.47
2:M:1090:LYS:HA	2:M:1090:LYS:HD2	1.72	0.47
2:C:1060:ILE:HB	2:C:1083:GLU:HG3	1.97	0.47
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.30	0.47
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.43	0.47
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.40	0.47
1:L:105:GLY:O	1:L:132:LEU:HB3	2.15	0.47
3:D:637:LEU:HD21	3:D:643:GLY:H	1.80	0.47
2:C:691:SER:HB3	2:C:868:ASP:O	2.15	0.47
3:N:864:VAL:HG12	3:N:865:THR:H	1.79	0.47
3:D:929:ARG:HH11	3:D:929:ARG:CG	2.28	0.47
9:D:9452:HOH:O	5:F:315:VAL:HB	2.14	0.47
5:F:270:LYS:HB3	5:F:295:MET:CE	2.44	0.47
3:N:1063:GLU:HG2	9:N:9788:HOH:O	2.15	0.47
3:N:799:LYS:HE2	3:N:824:ASN:O	2.15	0.47
3:D:152:LEU:HG	9:D:2087:HOH:O	2.15	0.47
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.50	0.47
4:O:42:PRO:HB2	9:O:5960:HOH:O	2.13	0.47
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.97	0.47
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:66:SER:O	1:A:75:VAL:HG23	2.15	0.47
2:M:795:GLY:HA3	2:M:1004:LYS:HD2	1.97	0.47
3:D:708:LEU:HB2	9:D:9664:HOH:O	2.15	0.47
3:D:1252:ILE:HD12	3:D:1253:THR:H	1.79	0.47
3:D:729:HIS:CE1	3:D:731:LEU:H	2.33	0.47
1:L:52:ALA:HB2	1:L:170:VAL:O	2.14	0.47
3:N:1422:MET:HE3	3:N:1427:SER:HA	1.97	0.47
3:N:897:TRP:HB3	9:N:9323:HOH:O	2.14	0.47
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.15	0.47
2:M:184:MET:HB2	2:M:193:LEU:HD12	1.96	0.47
3:N:179:VAL:O	3:N:183:GLU:HB2	2.15	0.47
3:N:1086:LEU:N	6:N:8002:STD:H32	2.30	0.47
2:C:183:SER:HB2	2:C:190:LYS:CG	2.45	0.47
2:C:433:THR:C	2:C:435:TYR:H	2.18	0.47
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.95	0.47
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.50	0.47
2:C:1088:LEU:HD23	2:C:1089:VAL:N	2.30	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.50	0.47
3:D:171:LEU:HD13	3:D:389:GLU:C	2.36	0.47
3:N:693:GLU:HA	4:O:48:MET:HE1	1.97	0.47
5:P:314:PRO:HD2	9:P:4412:HOH:O	2.15	0.47
2:C:137:VAL:O	2:C:391:LEU:HD11	2.15	0.47
3:D:1059:SER:HB3	9:D:9310:HOH:O	2.15	0.47
2:C:625:LEU:O	2:C:627:ARG:N	2.48	0.47
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.73	0.47
2:C:873:PRO:O	2:C:876:VAL:HG23	2.15	0.47
2:C:759:THR:HB	2:C:785:VAL:CG2	2.45	0.47
2:M:374:ASN:HD21	2:M:376:ARG:HB2	1.80	0.47
2:C:473:ARG:HG3	2:C:474:VAL:N	2.29	0.47
2:C:147:TYR:HE2	2:C:280:LYS:HE2	1.79	0.47
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.14	0.47
5:P:356:LYS:HE3	9:P:5784:HOH:O	2.15	0.47
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.45	0.47
2:M:102:HIS:HB2	2:M:106:GLY:O	2.15	0.47
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.97	0.47
1:K:149:GLY:O	1:K:171:PHE:HB2	2.14	0.47
9:K:5385:HOH:O	2:M:938:LYS:HE2	2.14	0.47
3:D:34:TYR:OH	5:F:261:PRO:HD2	2.15	0.47
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.50	0.46
2:M:428:ARG:NH2	2:M:451:LEU:HD11	2.31	0.46
2:C:220:GLY:HA3	9:C:1151:HOH:O	2.16	0.46
5:F:132:ARG:NH2	5:F:184:ARG:HH12	2.13	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:115:LEU:HD22	2:M:373:VAL:CG1	2.34	0.46
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.50	0.46
2:M:625:LEU:O	2:M:627:ARG:N	2.47	0.46
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.35	0.46
3:N:118:LEU:HB2	9:N:9568:HOH:O	2.15	0.46
3:N:127:LEU:HD12	3:N:128:TYR:HD1	1.80	0.46
2:C:1031:ARG:HG3	2:C:1031:ARG:NH1	2.29	0.46
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.50	0.46
2:C:882:LEU:HD23	2:C:885:ILE:HB	1.96	0.46
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.45	0.46
2:C:701:THR:HG23	2:C:832:LYS:HA	1.97	0.46
3:N:643:GLY:HA2	3:N:719:VAL:HG23	1.97	0.46
3:N:1084:THR:HA	3:N:1087:ARG:NH2	2.30	0.46
2:M:780:GLU:OE2	2:M:781:LYS:HG3	2.16	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.14	0.46
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.43	0.46
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.79	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.44	0.46
2:M:648:ARG:HB3	9:M:1146:HOH:O	2.14	0.46
2:M:248:PRO:HD2	9:M:1314:HOH:O	2.14	0.46
1:A:122:ILE:HD12	1:A:122:ILE:H	1.80	0.46
1:A:115:LEU:O	1:A:115:LEU:HD12	2.15	0.46
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	1.98	0.46
1:K:32:PHE:HZ	1:L:47:SER:HG	1.60	0.46
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.14	0.46
2:M:735:ARG:HB2	9:M:1788:HOH:O	2.15	0.46
2:M:191:PHE:HE2	2:M:196:LEU:HB2	1.79	0.46
2:M:342:ASP:O	2:M:346:VAL:HG23	2.15	0.46
2:M:139:GLN:HE21	2:M:334:ARG:CD	2.29	0.46
3:D:1462:LEU:HD22	3:D:1472:ILE:CG2	2.44	0.46
3:D:434:ARG:HD2	9:D:2137:HOH:O	2.15	0.46
1:L:14:ARG:HH22	1:L:24:VAL:CG2	2.29	0.46
3:N:681:ARG:HA	9:N:2260:HOH:O	2.15	0.46
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.14	0.46
3:D:493:ARG:HH21	3:D:1388:ARG:HB3	1.78	0.46
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.98	0.46
2:C:269:LEU:HG	9:C:1623:HOH:O	2.14	0.46
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.29	0.46
3:N:441:ARG:O	3:N:443:VAL:N	2.48	0.46
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.96	0.46
2:C:815:LEU:HD21	2:C:820:ARG:O	2.15	0.46
2:C:229:MET:HE1	9:C:1650:HOH:O	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	2.30	0.46
2:M:708:TYR:N	2:M:708:TYR:CD1	2.82	0.46
3:D:1362:LYS:HE2	9:D:9177:HOH:O	2.14	0.46
3:D:1274:ILE:HD12	9:D:2452:HOH:O	2.15	0.46
2:C:55:GLU:HG2	9:C:2078:HOH:O	2.15	0.46
2:M:145:GLY:H	2:M:163:ILE:HG13	1.81	0.46
3:D:537:THR:HG23	9:D:9070:HOH:O	2.14	0.46
2:C:3:ILE:HD13	2:C:900:ARG:O	2.16	0.46
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.19	0.46
3:D:1219:GLU:C	9:D:9516:HOH:O	2.53	0.46
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.40	0.46
2:M:285:LEU:HD12	2:M:288:ARG:O	2.15	0.46
1:B:23:PHE:HZ	1:B:207:PRO:HB2	1.80	0.46
3:D:616:GLN:HE21	3:D:619:LEU:HD13	1.80	0.46
2:M:403:SER:O	2:M:407:LYS:HG3	2.15	0.46
2:C:569:VAL:O	2:C:571:LEU:HD12	2.14	0.46
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.50	0.46
3:N:546:ARG:NH2	3:N:550:ARG:HH22	2.12	0.46
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.29	0.46
3:D:744:GLN:CD	9:D:9834:HOH:O	2.52	0.46
1:K:199:ILE:HD12	1:K:199:ILE:N	2.31	0.46
3:D:410:SER:CB	3:D:414:ARG:HH21	2.29	0.46
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.96	0.46
3:N:62:LYS:HZ1	3:N:75:ARG:HD2	1.80	0.46
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.16	0.46
1:L:30:ARG:HG3	9:L:4517:HOH:O	2.15	0.46
5:P:323:ASP:HB3	5:P:325:LYS:NZ	2.30	0.46
5:F:75:ILE:HG22	9:F:480:HOH:O	2.14	0.46
1:L:92:PRO:HD3	9:L:6486:HOH:O	2.16	0.46
2:C:1119:ARG:H	3:D:23:TYR:HE2	1.64	0.46
2:C:92:ALA:HB1	9:C:1961:HOH:O	2.15	0.46
2:M:817:PRO:C	2:M:819:VAL:H	2.19	0.46
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.97	0.46
3:D:116:LEU:HB3	3:D:118:LEU:CD2	2.45	0.46
2:C:313:LEU:CB	2:C:321:GLU:HG3	2.46	0.46
3:D:572:ARG:HB3	9:F:507:HOH:O	2.16	0.46
3:N:420:VAL:HG13	5:P:164:LYS:HD3	1.98	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.43	0.46
1:K:123:MET:C	1:K:125:PRO:HD3	2.35	0.46
9:N:9220:HOH:O	5:P:140:ARG:HB2	2.14	0.46
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.44	0.46
2:M:713:ARG:O	2:M:720:GLU:HG3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.96	0.46
3:N:543:LEU:O	3:N:546:ARG:HB2	2.15	0.46
2:C:580:MET:HB3	2:C:584:GLU:CD	2.36	0.46
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.96	0.46
5:F:370:LYS:HD2	5:F:370:LYS:C	2.35	0.46
3:D:77:GLY:O	3:D:78:VAL:HG23	2.15	0.46
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.31	0.46
3:D:980:MET:HB3	3:D:982:PHE:CE1	2.51	0.46
3:N:615:ARG:HD2	9:N:9404:HOH:O	2.14	0.46
2:C:6:PHE:HE2	2:C:913:GLU:HB3	1.80	0.46
2:C:249:LYS:HB2	9:C:1212:HOH:O	2.14	0.46
2:C:745:ILE:HG21	9:C:1837:HOH:O	2.15	0.46
3:N:1336:LEU:HD23	9:N:9785:HOH:O	2.15	0.46
1:K:4:SER:HB3	9:K:5976:HOH:O	2.16	0.46
2:M:719:PRO:HD3	9:M:1441:HOH:O	2.14	0.46
1:L:1:MET:HG2	9:L:4365:HOH:O	2.15	0.46
2:M:165:LEU:HA	2:M:166:PRO:O	2.16	0.46
2:M:172:ILE:HG23	2:M:184:MET:HE3	1.97	0.46
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.51	0.46
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.96	0.46
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.97	0.46
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.98	0.46
3:N:879:ARG:HD2	9:N:9192:HOH:O	2.14	0.46
3:D:596:SER:OG	3:D:598:ARG:HB3	2.15	0.46
3:D:1278:ASP:HB2	3:D:1318:TYR:CE1	2.49	0.46
2:M:285:LEU:HB3	9:M:1964:HOH:O	2.15	0.46
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.30	0.46
3:D:493:ARG:HA	9:D:9266:HOH:O	2.14	0.46
2:M:721:ARG:HE	2:M:783:ARG:NH2	2.13	0.46
3:N:543:LEU:CD2	3:N:600:LEU:HD12	2.44	0.46
3:D:862:ASP:O	3:D:877:PRO:HD3	2.15	0.46
5:P:168:LYS:HA	5:P:168:LYS:HE2	1.98	0.46
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.96	0.46
1:A:46:SER:HB3	2:C:856:GLU:CG	2.43	0.46
3:D:633:VAL:C	3:D:635:PRO:HD3	2.36	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.45	0.46
3:D:890:VAL:HA	9:D:9275:HOH:O	2.16	0.46
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.50	0.46
4:E:27:ALA:O	4:E:31:LEU:HG	2.16	0.46
2:C:525:SER:O	2:C:529:VAL:HG23	2.15	0.46
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.30	0.46
2:M:848:VAL:HB	3:N:740:PHE:O	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:210:GLU:HA	9:M:1714:HOH:O	2.15	0.46
5:P:395:GLU:HB2	9:P:5193:HOH:O	2.15	0.46
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.97	0.46
3:D:20:SER:HA	9:D:9314:HOH:O	2.15	0.46
2:M:172:ILE:HD12	2:M:172:ILE:N	2.31	0.46
2:M:166:PRO:HD3	2:M:265:ARG:CB	2.46	0.46
2:M:286:SER:OG	2:M:299:LYS:HE3	2.16	0.46
1:A:65:PHE:HE1	2:C:799:ILE:HG12	1.80	0.46
2:M:310:LEU:O	2:M:314:THR:HG23	2.16	0.46
9:A:334:HOH:O	2:C:980:GLY:HA2	2.15	0.46
3:D:465:LEU:HD12	3:D:513:ILE:HD11	1.97	0.46
5:P:218:GLN:HA	5:P:221:ILE:HD12	1.96	0.46
5:F:321:ILE:HG12	5:F:327:SER:O	2.16	0.46
3:N:42:ASP:O	3:N:46:ASP:HB2	2.16	0.46
3:N:1189:ARG:NH1	3:N:1201:CYS:SG	2.88	0.46
2:C:305:PRO:CB	2:C:308:ARG:HH21	2.19	0.46
3:D:1211:MET:HG2	3:D:1213:ARG:HG2	1.98	0.46
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.15	0.46
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.80	0.46
3:N:1314:LYS:NZ	3:N:1317:ASP:H	2.14	0.46
3:N:493:ARG:NH1	3:N:1390:LEU:HB2	2.31	0.46
2:C:520:GLU:O	2:C:522:VAL:HG23	2.16	0.46
3:D:178:LEU:HD21	3:D:199:LEU:H	1.81	0.46
2:C:668:LEU:HD12	2:C:668:LEU:H	1.79	0.46
2:C:30:LEU:HD12	2:C:30:LEU:O	2.15	0.46
1:A:18:ARG:HH12	1:A:88:ARG:NE	2.14	0.46
2:C:120:LEU:HB2	9:C:1338:HOH:O	2.14	0.46
3:D:1118:ILE:HD11	9:D:2295:HOH:O	2.16	0.46
3:N:1140:ILE:HG21	3:N:1175:ILE:HD11	1.98	0.46
3:N:1295:GLU:HB3	3:N:1300:SER:CB	2.46	0.46
2:C:1103:ASP:N	2:C:1107:ASN:O	2.48	0.46
3:N:1422:MET:CE	3:N:1427:SER:HA	2.46	0.46
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.98	0.46
4:O:8:LYS:HB3	9:O:4335:HOH:O	2.15	0.46
2:M:123:GLU:HB3	9:M:1677:HOH:O	2.16	0.46
2:M:955:PRO:HA	9:M:1371:HOH:O	2.16	0.46
3:D:845:ASN:CB	9:D:2535:HOH:O	2.63	0.46
3:D:1177:ALA:HB3	3:D:1183:ILE:HD11	1.98	0.46
3:D:581:LEU:HD12	3:D:582:LEU:N	2.31	0.46
1:B:160:ASP:HA	9:B:464:HOH:O	2.16	0.46
2:M:144:PRO:HA	2:M:163:ILE:CD1	2.46	0.46
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.44	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:221:HIS:HD1	1:A:224:TYR:HD2	1.62	0.46
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.96	0.46
5:F:215:GLU:O	5:F:218:GLN:HB3	2.15	0.46
3:D:1103:HIS:HD2	3:D:1462:LEU:N	2.13	0.46
2:M:1046:ALA:HB3	3:N:1476:THR:HB	1.97	0.46
3:D:692:GLU:HG2	3:D:720:LEU:HD22	1.97	0.46
1:L:89:PHE:CB	1:L:94:LEU:HD13	2.41	0.46
4:O:94:PRO:HB2	9:O:4661:HOH:O	2.16	0.46
3:D:592:THR:N	3:D:600:LEU:HD21	2.31	0.46
2:M:589:ARG:HD2	9:M:1387:HOH:O	2.15	0.46
3:D:906:GLN:NE2	3:D:910:SER:HB2	2.31	0.46
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.46	0.46
2:M:1007:ALA:HB2	3:N:648:MET:HE3	1.98	0.46
2:M:829:GLN:HG2	2:M:831:ARG:HE	1.81	0.46
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.44	0.46
5:F:141:VAL:HA	9:F:544:HOH:O	2.16	0.46
1:K:25:LEU:HD23	1:K:25:LEU:O	2.15	0.46
2:M:1100:GLN:HG3	2:M:1101:THR:O	2.15	0.46
3:D:1342:GLU:HG2	9:D:9397:HOH:O	2.16	0.46
2:M:108:ILE:HG23	9:M:1259:HOH:O	2.16	0.46
3:D:984:THR:CG2	3:D:987:GLU:H	2.28	0.46
2:M:928:LYS:HB2	9:M:1588:HOH:O	2.16	0.46
1:L:30:ARG:NH1	1:L:30:ARG:HG2	2.30	0.46
2:C:166:PRO:HB2	9:C:1593:HOH:O	2.14	0.46
2:C:55:GLU:HG3	9:C:1573:HOH:O	2.16	0.46
3:D:974:ILE:HD11	9:D:9959:HOH:O	2.15	0.46
1:A:227:ASN:H	1:A:227:ASN:ND2	2.14	0.46
4:E:84:ARG:HA	4:E:84:ARG:HH11	1.79	0.46
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.51	0.46
4:E:45:ARG:H	4:E:45:ARG:HD2	1.81	0.46
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.15	0.46
3:N:131:LYS:HG2	3:N:568:ARG:CG	2.21	0.46
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.97	0.46
2:C:1086:ARG:HB3	2:C:1112:PHE:CE2	2.50	0.46
2:M:409:ARG:NE	9:M:1130:HOH:O	2.48	0.46
5:F:363:GLU:CA	5:F:367:MET:HG2	2.46	0.46
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.97	0.46
3:D:154:THR:HA	9:D:9028:HOH:O	2.15	0.46
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.16	0.46
3:D:646:LYS:NZ	3:D:688:TRP:HE1	2.13	0.46
5:P:151:LEU:CD2	5:P:153:PRO:HD2	2.45	0.46
3:D:161:LEU:CD1	3:D:452:ILE:HD12	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:432:ARG:NH1	3:N:1048:PRO:HG2	2.29	0.46
3:N:1267:ARG:HH22	3:N:1331:ASP:HB3	1.80	0.46
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.80	0.46
3:N:404:GLU:HA	9:N:2182:HOH:O	2.16	0.46
1:L:19:GLU:O	1:L:200:TRP:HA	2.16	0.46
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.97	0.46
3:D:669:ASN:O	3:D:672:ALA:HB3	2.15	0.46
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.46	0.46
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.31	0.46
1:L:30:ARG:HH11	1:L:30:ARG:HG2	1.81	0.46
2:M:107:LEU:HG	9:M:1695:HOH:O	2.16	0.46
3:N:785:ILE:HD12	3:N:785:ILE:H	1.81	0.46
3:D:428:LYS:HD3	3:D:451:ASP:OD1	2.16	0.46
3:D:998:GLU:HG2	9:D:9130:HOH:O	2.15	0.46
1:B:110:LYS:NZ	1:B:110:LYS:HB2	2.31	0.46
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.30	0.46
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.80	0.46
3:N:1444:THR:HG21	9:N:9794:HOH:O	2.16	0.46
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.79	0.46
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.98	0.46
2:M:141:HIS:HB3	2:M:418:LEU:CG	2.46	0.46
2:M:140:ILE:O	2:M:418:LEU:HD23	2.16	0.46
2:C:182:VAL:HG11	2:C:193:LEU:HD22	1.97	0.46
3:D:572:ARG:NH2	5:F:83:GLN:NE2	2.59	0.46
3:N:34:TYR:HA	9:N:9522:HOH:O	2.16	0.46
5:F:164:LYS:HG2	5:F:171:LYS:NZ	2.31	0.46
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.16	0.46
3:D:56:TYR:HE2	3:D:69:GLU:HB2	1.79	0.46
2:C:626:ARG:N	2:C:639:GLN:HE21	2.13	0.46
3:D:805:GLU:O	3:D:805:GLU:OE1	2.34	0.46
2:C:882:LEU:HD22	3:D:951:ILE:HG12	1.98	0.46
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.51	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.50	0.46
2:C:267:TYR:HD1	9:C:1271:HOH:O	1.98	0.46
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.46	0.46
5:F:179:GLU:HG3	9:F:536:HOH:O	2.16	0.46
2:M:273:GLY:HA2	2:M:276:LYS:NZ	2.31	0.46
5:P:286:PRO:HD2	9:P:5418:HOH:O	2.15	0.46
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.16	0.46
3:N:671:LYS:HE2	3:N:674:ARG:HH21	1.81	0.46
1:B:146:ARG:HB2	9:B:513:HOH:O	2.15	0.46
1:A:72:LYS:HA	2:C:608:GLY:N	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:608:SER:OG	3:D:609:GLY:N	2.49	0.46
2:C:808:ARG:HG2	2:C:808:ARG:HH11	1.81	0.46
2:C:462:ASP:CG	2:C:468:ARG:HD2	2.36	0.46
1:K:162:ILE:HG13	1:K:163:ASN:OD1	2.16	0.46
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.96	0.46
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.31	0.46
3:N:1481:VAL:O	3:N:1481:VAL:HG12	2.16	0.46
3:D:969:ARG:HD2	9:D:9782:HOH:O	2.15	0.46
3:N:1209:LEU:HD13	3:N:1211:MET:SD	2.56	0.46
2:C:944:LEU:HD11	2:C:963:LEU:CD2	2.45	0.46
3:D:133:ILE:HG22	3:D:455:ARG:N	2.30	0.46
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.15	0.46
2:C:1004:LYS:O	2:C:1005:MET:C	2.52	0.46
2:C:1053:LEU:HD12	9:D:9467:HOH:O	2.15	0.46
3:D:132:TYR:HA	9:D:9028:HOH:O	2.16	0.46
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.36	0.46
2:C:367:LEU:HA	2:C:371:LYS:HD3	1.98	0.46
3:D:379:ALA:HB3	9:D:9248:HOH:O	2.15	0.46
3:N:629:SER:OG	3:N:630:VAL:N	2.47	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.46	0.46
4:O:62:THR:HG21	9:O:5845:HOH:O	2.15	0.46
2:C:896:PHE:O	2:C:924:VAL:HG11	2.16	0.46
2:C:1105:LYS:HE3	9:C:1173:HOH:O	2.15	0.46
3:N:734:GLU:OE1	3:N:782:SER:HB2	2.15	0.46
3:N:671:LYS:HA	3:N:674:ARG:HE	1.81	0.46
2:C:892:LEU:HD12	2:C:892:LEU:O	2.16	0.46
4:O:13:VAL:HG12	4:O:75:PHE:CE1	2.51	0.46
2:C:75:GLU:HG3	9:C:1495:HOH:O	2.15	0.46
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.51	0.46
5:F:233:PHE:HE1	9:F:456:HOH:O	1.99	0.46
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.98	0.45
3:N:7:LYS:HD3	3:N:1456:LYS:NZ	2.31	0.45
2:M:141:HIS:HB3	2:M:418:LEU:CD2	2.47	0.45
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.98	0.45
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.32	0.45
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.47	0.45
2:C:1067:TYR:HE1	3:D:655:PRO:HG3	1.80	0.45
2:M:893:ALA:O	2:M:897:LEU:HB2	2.16	0.45
1:B:91:ASN:OD1	1:B:93:SER:HB2	2.16	0.45
2:M:52:PHE:O	2:M:54:ILE:N	2.49	0.45
4:O:84:ARG:CZ	4:O:84:ARG:HB2	2.46	0.45
1:A:85:LEU:HD12	1:A:124:ASN:HB3	1.97	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.16	0.45
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.81	0.45
3:N:666:ILE:HG22	3:N:684:LYS:HD3	1.99	0.45
2:C:422:ARG:H	2:C:422:ARG:HG2	1.41	0.45
5:P:84:TYR:HB2	9:P:5610:HOH:O	2.16	0.45
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.98	0.45
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.97	0.45
3:D:549:ASN:HB3	9:D:9108:HOH:O	2.15	0.45
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.45
1:B:16:GLN:HA	9:B:370:HOH:O	2.16	0.45
3:D:39:PRO:HG2	3:D:47:GLU:OE2	2.15	0.45
3:N:994:GLN:CA	3:N:994:GLN:HE21	2.28	0.45
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.46	0.45
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.97	0.45
3:N:792:ILE:O	3:N:878:GLY:HA3	2.16	0.45
4:O:64:ALA:HA	4:O:67:GLU:OE1	2.16	0.45
3:N:1503:VAL:HG11	9:N:9426:HOH:O	2.16	0.45
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.30	0.45
1:L:223:THR:HG21	9:L:4720:HOH:O	2.15	0.45
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.98	0.45
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.45
3:D:661:MET:CE	3:D:673:ALA:HB1	2.46	0.45
2:C:54:ILE:HG12	2:C:56:GLU:HG2	1.98	0.45
3:N:116:LEU:HD21	3:N:464:LEU:HB3	1.98	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	2.00	0.45
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.46	0.45
3:D:389:GLU:HG2	3:D:389:GLU:O	2.16	0.45
3:D:1105:ILE:HD11	3:D:1374:GLN:OE1	2.17	0.45
3:D:1432:LYS:CG	3:D:1433:SER:H	2.29	0.45
3:N:1346:ARG:HD2	9:N:9115:HOH:O	2.15	0.45
5:P:409:LYS:HE3	5:P:410:TYR:HD1	1.82	0.45
3:D:850:LEU:CD2	3:D:881:LEU:HD13	2.46	0.45
2:C:690:ILE:CG1	2:C:694:LEU:HD12	2.47	0.45
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.16	0.45
3:N:1045:MET:N	9:N:2112:HOH:O	2.50	0.45
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.98	0.45
2:M:448:ASN:ND2	9:M:1423:HOH:O	2.48	0.45
3:D:545:ARG:CZ	5:F:257:THR:HA	2.46	0.45
5:F:360:LYS:HD2	9:F:461:HOH:O	2.15	0.45
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.45
3:D:413:ASP:HA	9:D:9536:HOH:O	2.15	0.45
5:P:109:GLY:O	5:P:112:ALA:HB3	2.15	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:337:GLY:HA3	9:M:1269:HOH:O	2.16	0.45
1:A:170:VAL:HG12	9:A:359:HOH:O	2.14	0.45
3:N:191:LEU:HA	3:N:191:LEU:HD23	1.73	0.45
3:N:637:LEU:HD11	3:N:641:GLN:C	2.36	0.45
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.99	0.45
1:A:32:PHE:HE2	1:B:43:ILE:CD1	2.29	0.45
3:D:1192:LEU:CD2	3:D:1345:GLU:HG2	2.45	0.45
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.46	0.45
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.97	0.45
5:F:184:ARG:HE	5:F:188:ILE:HD11	1.81	0.45
3:N:1112:CYS:HA	9:N:9059:HOH:O	2.16	0.45
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.30	0.45
3:N:860:LEU:HD13	3:N:861:GLN:HE22	1.81	0.45
2:M:627:ARG:HA	9:M:1134:HOH:O	2.16	0.45
5:P:321:ILE:HG13	5:P:329:TYR:HA	1.98	0.45
2:M:752:GLY:C	2:M:791:ARG:HH12	2.19	0.45
3:D:1065:LEU:CD1	3:D:1069:GLU:HB2	2.46	0.45
2:C:831:ARG:NH1	2:C:831:ARG:HG2	2.31	0.45
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.16	0.45
2:C:841:ASN:HD22	2:C:843:HIS:N	2.08	0.45
2:C:428:ARG:HG3	2:C:428:ARG:HH11	1.81	0.45
2:C:910:LYS:HB2	2:C:913:GLU:OE1	2.17	0.45
2:C:114:PHE:H	2:C:114:PHE:HD1	1.64	0.45
2:M:652:GLY:HA2	9:M:1715:HOH:O	2.16	0.45
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.82	0.45
3:D:1392:GLY:N	9:D:9363:HOH:O	2.49	0.45
2:M:621:VAL:HG13	9:M:1139:HOH:O	2.15	0.45
2:C:236:ILE:O	2:C:239:PHE:HB2	2.16	0.45
4:E:69:LEU:HD11	9:E:171:HOH:O	2.16	0.45
2:M:191:PHE:O	2:M:192:PRO:C	2.55	0.45
2:M:212:GLY:C	2:M:215:GLY:H	2.20	0.45
2:M:685:GLU:CG	3:N:739:ASP:HB2	2.30	0.45
2:C:1097:LEU:HD12	3:D:10:ILE:CG2	2.47	0.45
2:C:435:TYR:C	2:C:437:ARG:H	2.19	0.45
5:F:117:SER:HB3	5:F:122:LEU:O	2.16	0.45
5:F:192:LEU:O	5:F:196:VAL:HG23	2.16	0.45
3:N:495:ARG:O	3:N:499:VAL:HG23	2.16	0.45
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.51	0.45
1:B:28:LEU:O	1:B:192:LEU:HD23	2.16	0.45
3:D:213:VAL:HG22	3:D:214:GLU:H	1.81	0.45
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.16	0.45
4:O:26:ARG:NH1	4:O:29:GLN:NE2	2.64	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:675:ARG:O	3:N:678:GLU:HG2	2.17	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
3:N:1059:SER:HA	9:N:9590:HOH:O	2.17	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.30	0.45
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.37	0.45
3:N:984:THR:HB	3:N:987:GLU:OE2	2.17	0.45
5:F:399:GLN:HG2	9:F:793:HOH:O	2.15	0.45
2:C:833:LEU:HD12	2:C:834:GLN:N	2.30	0.45
2:M:1105:LYS:O	2:M:1107:ASN:N	2.49	0.45
3:N:16:GLU:HA	9:N:9730:HOH:O	2.16	0.45
3:N:734:GLU:HB2	9:N:9019:HOH:O	2.16	0.45
2:C:767:PRO:HA	9:C:1291:HOH:O	2.17	0.45
1:K:86:VAL:HA	9:K:4248:HOH:O	2.17	0.45
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.98	0.45
1:K:181:VAL:O	2:M:938:LYS:HD3	2.16	0.45
1:B:187:GLY:HA3	9:B:450:HOH:O	2.17	0.45
2:M:814:GLU:HG3	2:M:814:GLU:O	2.17	0.45
2:M:171:TRP:HB2	9:M:1883:HOH:O	2.17	0.45
2:C:798:GLY:C	2:C:799:ILE:HD13	2.37	0.45
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.47	0.45
3:N:560:GLN:O	5:P:184:ARG:NH2	2.47	0.45
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.47	0.45
2:M:435:TYR:C	2:M:437:ARG:H	2.19	0.45
2:C:175:GLU:HB3	2:C:183:SER:OG	2.16	0.45
5:F:126:LEU:O	5:F:130:VAL:HG23	2.17	0.45
2:C:282:GLY:H	2:C:308:ARG:NH2	2.13	0.45
2:C:309:TYR:HE2	2:C:321:GLU:HB3	1.81	0.45
3:D:1496:GLU:OE1	3:D:1500:LYS:HE3	2.16	0.45
3:D:1320:GLU:O	3:D:1323:GLN:HB2	2.16	0.45
3:N:696:HIS:HB2	4:O:48:MET:CE	2.47	0.45
2:C:877:PRO:HG2	3:D:1023:MET:HE1	1.99	0.45
3:D:682:ASP:N	3:D:682:ASP:OD1	2.49	0.45
5:P:168:LYS:H	5:P:168:LYS:HG2	1.46	0.45
3:D:491:LYS:HD3	3:D:492:ALA:N	2.31	0.45
2:C:421:GLU:CD	2:C:421:GLU:O	2.55	0.45
3:N:673:ALA:O	3:N:677:LEU:HG	2.17	0.45
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.17	0.45
1:K:61:VAL:HG21	1:K:68:ILE:HD11	1.98	0.45
5:F:401:GLU:HG3	5:F:405:LEU:HD22	1.98	0.45
3:N:1235:GLN:O	3:N:1237:THR:N	2.50	0.45
2:M:1118:LYS:HD3	3:N:20:SER:O	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.51	0.45
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.46	0.45
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.46	0.45
2:M:300:ASP:HA	9:M:1823:HOH:O	2.15	0.45
2:M:342:ASP:O	2:M:345:ARG:HG3	2.16	0.45
2:C:890:LEU:HA	2:C:914:ILE:CD1	2.35	0.45
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.82	0.45
2:C:778:PHE:HZ	5:F:409:LYS:HB2	1.79	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.31	0.45
5:F:85:LEU:HB2	9:F:440:HOH:O	2.16	0.45
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.99	0.45
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.99	0.45
3:D:872:ARG:HB3	9:D:9461:HOH:O	2.16	0.45
3:N:950:GLY:H	3:N:953:ASP:CB	2.29	0.45
2:M:274:ARG:HG3	2:M:285:LEU:HD13	1.98	0.45
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.29	0.45
3:D:704:ARG:HE	3:D:705:ALA:N	2.11	0.45
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.98	0.45
3:D:813:LEU:O	3:D:839:LEU:HD11	2.16	0.45
2:C:575:GLN:O	2:C:667:ALA:HB1	2.17	0.45
2:M:1006:HIS:ND1	2:M:1006:HIS:N	2.64	0.45
3:D:72:VAL:HG23	3:D:78:VAL:H	1.81	0.45
5:F:292:ALA:HA	5:F:299:TRP:HB3	1.99	0.45
2:M:89:THR:HG23	2:M:91:GLN:NE2	2.31	0.45
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.31	0.45
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.99	0.45
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.98	0.45
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.17	0.45
5:P:396:ARG:HG2	9:P:3845:HOH:O	2.17	0.45
3:D:820:GLU:HA	3:D:825:ALA:O	2.16	0.45
5:P:287:THR:N	5:P:290:GLU:OE1	2.49	0.45
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.16	0.45
2:C:27:ARG:HA	9:C:1366:HOH:O	2.16	0.45
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.16	0.45
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.98	0.45
3:N:653:PHE:CD1	3:N:695:ILE:HD11	2.51	0.45
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.81	0.45
1:L:145:ASP:O	1:L:171:PHE:HE1	2.00	0.45
2:C:956:GLY:HA2	9:C:1808:HOH:O	2.17	0.45
2:C:195:LEU:HB3	9:C:1703:HOH:O	2.15	0.45
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.47	0.45
2:C:183:SER:HB3	9:C:1141:HOH:O	2.15	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.47	0.45
2:M:902:ILE:O	2:M:904:PRO:HD3	2.17	0.45
2:C:342:ASP:O	2:C:345:ARG:HG2	2.17	0.45
3:D:1377:LYS:NZ	9:D:9064:HOH:O	2.50	0.45
5:F:166:LEU:HD22	5:F:170:HIS:CB	2.46	0.45
1:L:206:THR:CG2	1:L:209:GLU:H	2.23	0.45
5:P:416:ARG:HD3	5:P:419:ARG:HB3	1.98	0.45
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.44	0.45
3:D:777:PRO:HG2	3:D:915:VAL:HB	1.99	0.45
3:D:790:TYR:CZ	3:D:905:PRO:HB2	2.52	0.45
1:B:65:PHE:HE1	3:D:806:PHE:HZ	1.64	0.45
2:M:603:VAL:H	2:M:647:GLN:H	1.65	0.45
3:D:1350:GLU:HG3	9:D:9098:HOH:O	2.16	0.45
3:N:484:PRO:HB2	9:N:9818:HOH:O	2.15	0.45
3:N:480:GLU:O	3:N:484:PRO:HD2	2.17	0.45
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.43	0.45
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.82	0.45
2:C:423:ALA:CB	2:C:428:ARG:HH22	2.29	0.45
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.51	0.45
3:N:633:VAL:C	3:N:635:PRO:HD3	2.36	0.45
3:N:1047:LYS:HD2	3:N:1051:GLU:OE2	2.17	0.45
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.47	0.45
2:C:993:PHE:C	2:C:993:PHE:CD1	2.90	0.45
2:C:267:TYR:N	2:C:267:TYR:HD2	2.15	0.45
3:D:1203:LYS:HE3	9:D:9590:HOH:O	2.16	0.45
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.45
3:N:594:PRO:HA	9:N:9546:HOH:O	2.16	0.45
1:K:220:GLU:HG2	9:K:5302:HOH:O	2.16	0.45
2:C:744:ARG:HD3	9:C:1611:HOH:O	2.16	0.45
3:D:799:LYS:HE2	3:D:801:GLY:HA3	1.99	0.45
5:F:148:LYS:HD3	9:F:504:HOH:O	2.16	0.45
3:N:868:TYR:HB2	3:N:873:LEU:HD12	1.97	0.45
3:N:397:LYS:HE3	9:N:9553:HOH:O	2.14	0.45
1:L:183:ASP:HB3	9:L:6719:HOH:O	2.16	0.45
2:M:197:LEU:HD22	2:M:202:TYR:CD2	2.51	0.45
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.98	0.45
3:N:1101:VAL:CG1	3:N:1428:ALA:HB2	2.46	0.45
1:A:138:LEU:HD12	1:A:138:LEU:HA	1.86	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.99	0.45
3:D:1442:ASN:O	3:D:1446:VAL:HG23	2.17	0.45
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.98	0.45
2:M:670:GLN:HE22	2:M:699:PHE:C	2.20	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:690:ILE:HG12	2:M:691:SER:N	2.32	0.45
2:C:313:LEU:HD12	9:C:1484:HOH:O	2.16	0.45
3:N:477:LEU:HD21	3:N:495:ARG:HD3	1.97	0.45
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.98	0.45
3:D:210:ARG:HG3	3:D:398:ALA:N	2.30	0.45
3:N:1209:LEU:CD1	3:N:1216:SER:HB2	2.47	0.45
3:N:1026:SER:C	3:N:1028:ALA:H	2.20	0.45
3:N:806:PHE:CG	3:N:806:PHE:O	2.70	0.45
1:B:89:PHE:N	1:B:89:PHE:CD1	2.85	0.45
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.99	0.45
2:M:802:ARG:HG3	9:M:1172:HOH:O	2.16	0.45
2:C:495:THR:H	2:C:530:GLU:CD	2.19	0.45
5:F:313:GLU:HB3	9:F:481:HOH:O	2.17	0.45
2:M:129:ILE:HD13	2:M:386:PHE:O	2.17	0.45
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.98	0.45
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.30	0.45
5:F:289:GLU:HG2	9:F:680:HOH:O	2.17	0.45
2:C:191:PHE:CZ	2:C:196:LEU:HD12	2.51	0.45
3:D:114:THR:O	3:D:495:ARG:HG3	2.17	0.45
3:N:1365:ASP:O	3:N:1368:ILE:HG13	2.16	0.45
3:N:640:HIS:HB3	9:N:9110:HOH:O	2.17	0.45
1:B:90:LEU:HD22	9:B:320:HOH:O	2.16	0.45
3:D:451:ASP:HB3	9:D:2046:HOH:O	2.17	0.45
3:N:769:LEU:HB2	3:N:919:PHE:HE1	1.81	0.45
2:C:798:GLY:H	2:C:827:VAL:CG1	2.30	0.45
3:N:1397:LYS:HB2	9:N:9957:HOH:O	2.17	0.45
2:C:307:LEU:HG	2:C:311:PHE:CZ	2.52	0.45
2:C:64:LEU:HD22	2:C:359:MET:CG	2.41	0.45
2:M:979:THR:CG2	2:M:981:GLU:HB2	2.46	0.45
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.99	0.45
3:N:1389:LEU:CD1	3:N:1390:LEU:HD23	2.47	0.45
3:D:860:LEU:HD23	3:D:877:PRO:CB	2.46	0.45
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.50	0.45
2:M:429:ASP:HB3	3:N:1079:LYS:HZ1	1.82	0.45
2:C:367:LEU:HB3	9:C:1983:HOH:O	2.16	0.45
3:N:378:ILE:HA	9:N:2123:HOH:O	2.16	0.45
2:C:275:TYR:CD2	2:C:276:LYS:HG3	2.52	0.45
3:D:1405:GLU:CD	3:D:1413:THR:HB	2.37	0.45
2:C:216:GLU:HB2	9:C:1669:HOH:O	2.15	0.45
1:L:212:ASN:O	1:L:215:VAL:HG22	2.16	0.45
1:B:159:LYS:N	1:B:159:LYS:HD3	2.32	0.45
3:D:1026:SER:C	3:D:1028:ALA:H	2.19	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.17	0.45
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.99	0.45
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.99	0.45
3:N:137:PRO:HD2	3:N:453:ASP:CG	2.38	0.45
3:N:47:GLU:OE1	3:N:53:ILE:HG22	2.17	0.45
3:N:508:ARG:HG3	9:N:9392:HOH:O	2.17	0.45
2:C:1091:GLU:HG2	3:D:606:ILE:CG2	2.47	0.45
3:D:191:LEU:HD11	9:D:9494:HOH:O	2.17	0.45
3:D:393:ILE:HG22	9:D:9389:HOH:O	2.16	0.45
3:N:704:ARG:HD2	3:N:705:ALA:N	2.23	0.45
4:E:60:ALA:HB3	9:E:111:HOH:O	2.17	0.45
2:M:312:ALA:HB2	9:M:1641:HOH:O	2.17	0.45
2:C:602:GLU:HA	2:C:647:GLN:O	2.17	0.45
2:C:1032:PHE:HE2	2:C:1037:VAL:HA	1.81	0.45
3:D:1099:VAL:HG13	3:D:1223:ILE:CD1	2.46	0.45
3:D:1476:THR:HA	9:E:104:HOH:O	2.17	0.45
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.47	0.45
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.82	0.45
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.99	0.45
2:C:1020:PRO:HD2	2:C:1057:SER:OG	2.17	0.45
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.99	0.45
2:C:893:ALA:O	2:C:897:LEU:HB2	2.16	0.45
3:N:669:ASN:O	3:N:672:ALA:HB3	2.16	0.45
3:D:729:HIS:ND1	3:D:730:PRO:N	2.64	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.17	0.45
2:M:472:ARG:HD2	2:M:480:THR:O	2.17	0.45
3:D:819:GLY:HA3	9:D:9206:HOH:O	2.17	0.45
2:M:172:ILE:HD12	2:M:172:ILE:H	1.82	0.44
2:M:176:VAL:O	2:M:178:PRO:HD3	2.16	0.44
3:N:1431:THR:OG1	3:N:1432:LYS:N	2.51	0.44
2:C:19:THR:O	2:C:23:VAL:HG23	2.16	0.44
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.99	0.44
3:N:28:LYS:O	3:N:43:GLY:HA2	2.17	0.44
2:C:773:LEU:N	9:C:1403:HOH:O	2.50	0.44
5:P:321:ILE:O	5:P:327:SER:HB3	2.17	0.44
2:C:818:GLY:N	9:C:2148:HOH:O	2.49	0.44
3:N:493:ARG:O	3:N:497:GLU:HG3	2.17	0.44
2:M:877:PRO:HB3	3:N:1020:LEU:HD12	1.99	0.44
5:P:142:ARG:HA	9:P:3722:HOH:O	2.17	0.44
4:O:89:MET:HG3	9:O:5639:HOH:O	2.16	0.44
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.43	0.44
3:N:804:LEU:O	3:N:804:LEU:HD12	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:86:LYS:HG2	2:M:813:VAL:HG12	1.99	0.44
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.17	0.44
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.99	0.44
1:L:81:ASN:O	1:L:84:GLU:HB3	2.16	0.44
1:L:185:ARG:HA	9:L:4092:HOH:O	2.16	0.44
3:N:1403:LEU:HD23	3:N:1407:LEU:CD2	2.46	0.44
3:D:1487:VAL:HG12	4:E:74:VAL:HB	1.99	0.44
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.52	0.44
2:M:77:PRO:HD3	2:M:93:PRO:HG3	1.97	0.44
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.27	0.44
1:L:75:VAL:O	1:L:79:ILE:HG23	2.17	0.44
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.82	0.44
5:F:153:PRO:CG	5:F:154:LYS:H	2.30	0.44
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.32	0.44
2:C:1078:GLU:HG3	9:C:2012:HOH:O	2.16	0.44
5:P:357:ALA:HB2	9:P:3982:HOH:O	2.17	0.44
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.17	0.44
2:M:1088:LEU:HD12	9:N:9389:HOH:O	2.17	0.44
5:F:288:TYR:HB2	9:F:819:HOH:O	2.17	0.44
3:D:121:THR:HG23	9:D:9102:HOH:O	2.16	0.44
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.16	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HA	2.47	0.44
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.33	0.44
2:C:150:PRO:HB2	9:C:2194:HOH:O	2.18	0.44
2:M:1052:MET:SD	2:M:1056:LYS:HD2	2.57	0.44
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.99	0.44
3:D:510:GLU:HG3	9:D:9443:HOH:O	2.17	0.44
2:M:1102:LEU:N	3:N:7:LYS:O	2.49	0.44
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.44
2:C:486:MET:HG2	2:C:487:THR:O	2.16	0.44
3:D:1481:VAL:HG13	4:E:18:ARG:HE	1.82	0.44
3:N:57:GLU:HG2	3:N:58:CYS:O	2.18	0.44
5:P:133:ALA:HB1	9:P:3678:HOH:O	2.17	0.44
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.17	0.44
3:N:813:LEU:HD12	3:N:814:ALA:N	2.31	0.44
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.18	0.44
2:C:385:PHE:O	2:C:389:SER:HB3	2.17	0.44
3:D:939:PHE:O	3:D:943:THR:HG23	2.17	0.44
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	1.99	0.44
2:C:841:ASN:ND2	2:C:843:HIS:HB2	2.32	0.44
3:D:1476:THR:HG23	4:E:21:VAL:HG22	2.00	0.44
3:D:161:LEU:CD2	3:D:452:ILE:HG21	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.52	0.44
3:D:671:LYS:N	9:D:9017:HOH:O	2.50	0.44
5:F:369:LEU:HD22	9:F:840:HOH:O	2.18	0.44
2:C:817:PRO:C	2:C:819:VAL:H	2.19	0.44
2:C:73:LEU:N	2:C:73:LEU:HD23	2.32	0.44
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.74	0.44
3:N:774:SER:OG	3:N:776:GLU:HB2	2.18	0.44
3:N:431:VAL:HA	9:N:9353:HOH:O	2.16	0.44
5:P:249:ARG:HG3	5:P:253:ASP:OD1	2.17	0.44
9:N:9147:HOH:O	5:P:254:GLN:HA	2.17	0.44
3:D:1343:ALA:HA	9:D:9548:HOH:O	2.17	0.44
3:N:1298:GLY:HA3	9:N:9525:HOH:O	2.17	0.44
2:C:761:PHE:CD1	2:C:761:PHE:N	2.85	0.44
3:N:585:GLY:HA3	9:N:9488:HOH:O	2.17	0.44
2:C:226:VAL:HG12	9:C:1509:HOH:O	2.16	0.44
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.44
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.99	0.44
2:C:442:GLU:HG2	2:C:454:SER:OG	2.17	0.44
5:P:363:GLU:CA	5:P:367:MET:HG2	2.46	0.44
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.83	0.44
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.17	0.44
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.98	0.44
2:C:648:ARG:HG2	9:C:1175:HOH:O	2.16	0.44
2:M:358:ARG:HH22	2:M:374:ASN:HB2	1.83	0.44
3:N:442:ASN:HB3	9:N:9550:HOH:O	2.16	0.44
5:F:295:MET:HE2	5:F:295:MET:HA	1.99	0.44
2:C:668:LEU:O	2:C:993:PHE:CZ	2.71	0.44
2:C:862:PRO:HG3	2:C:975:TYR:CE1	2.48	0.44
3:D:39:PRO:HB2	9:D:2416:HOH:O	2.17	0.44
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.32	0.44
2:M:101:ILE:HG23	2:M:107:LEU:HD22	1.98	0.44
3:N:1270:ALA:HB3	9:N:9875:HOH:O	2.17	0.44
3:N:1467:ILE:HG13	3:N:1467:ILE:H	1.65	0.44
1:A:159:LYS:HE3	9:A:341:HOH:O	2.18	0.44
3:D:1445:HIS:HB2	9:D:9269:HOH:O	2.17	0.44
2:M:241:LEU:HB3	9:M:1577:HOH:O	2.17	0.44
2:M:350:ARG:HA	2:M:353:ARG:CZ	2.47	0.44
3:D:112:ILE:O	3:D:112:ILE:HD12	2.17	0.44
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.99	0.44
2:C:185:LYS:HD3	2:C:190:LYS:NZ	2.33	0.44
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.99	0.44
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.47	0.44
2:M:925:TYR:C	2:M:925:TYR:HD1	2.21	0.44
3:N:1219:GLU:HG3	4:O:17:TYR:OH	2.17	0.44
2:M:877:PRO:HG2	2:M:878:SER:H	1.82	0.44
2:C:603:VAL:H	2:C:647:GLN:H	1.65	0.44
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.44
3:D:65:ARG:HD3	9:D:2178:HOH:O	2.18	0.44
3:N:838:ARG:HG2	3:N:865:THR:OG1	2.18	0.44
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.98	0.44
5:P:102:LEU:HD22	5:P:183:ALA:O	2.17	0.44
3:D:860:LEU:O	3:D:877:PRO:HD2	2.17	0.44
3:N:1399:ASP:HA	9:N:9219:HOH:O	2.16	0.44
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.45	0.44
1:A:9:PRO:HB3	1:A:25:LEU:CD1	2.47	0.44
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.52	0.44
1:L:59:GLU:HG2	1:L:139:ASN:O	2.17	0.44
5:F:403:LYS:HD3	9:F:714:HOH:O	2.17	0.44
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.72	0.44
3:N:1093:TYR:O	3:N:1096:ARG:HB3	2.16	0.44
1:B:109:VAL:HA	9:B:383:HOH:O	2.17	0.44
5:P:331:ASP:HB2	9:P:5195:HOH:O	2.18	0.44
2:M:817:PRO:HB3	5:P:305:GLU:OE1	2.18	0.44
2:M:835:VAL:HG11	9:N:9423:HOH:O	2.17	0.44
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.17	0.44
3:D:921:ARG:HD2	9:D:9298:HOH:O	2.18	0.44
3:N:960:LYS:HG2	3:N:964:LEU:HD12	1.99	0.44
2:M:599:GLU:HB2	9:M:1325:HOH:O	2.17	0.44
2:C:155:PRO:HB2	9:C:1303:HOH:O	2.16	0.44
2:M:200:LEU:H	2:M:200:LEU:HG	1.59	0.44
3:D:80:VAL:HG23	9:D:9031:HOH:O	2.17	0.44
2:C:437:ARG:NH2	2:C:486:MET:O	2.50	0.44
3:N:1112:CYS:HA	9:N:9572:HOH:O	2.17	0.44
5:P:370:LYS:HB3	5:P:370:LYS:HZ2	1.82	0.44
5:F:77:THR:O	5:F:81:VAL:HG23	2.17	0.44
2:C:688:ILE:N	2:C:688:ILE:HD12	2.32	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
4:O:54:LEU:HA	4:O:58:PRO:CG	2.47	0.44
1:B:120:VAL:HB	9:B:441:HOH:O	2.16	0.44
3:D:906:GLN:HE22	3:D:910:SER:HB2	1.82	0.44
2:C:567:GLN:O	2:C:997:LEU:HD22	2.18	0.44
1:B:65:PHE:HE1	3:D:806:PHE:CZ	2.35	0.44
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.82	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:142:ARG:HD3	2:C:325:ILE:HG23	1.99	0.44
3:D:996:TRP:HE3	3:D:999:THR:CG2	2.28	0.44
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.99	0.44
2:C:371:LYS:HE3	9:C:1918:HOH:O	2.17	0.44
2:C:198:ARG:HH21	2:C:204:GLN:HG3	1.82	0.44
3:D:971:LEU:O	3:D:975:GLU:HG3	2.18	0.44
2:C:1105:LYS:O	2:C:1107:ASN:N	2.50	0.44
3:D:1239:ARG:HB2	9:D:9447:HOH:O	2.17	0.44
1:K:227:ASN:ND2	1:K:227:ASN:H	2.16	0.44
2:C:792:VAL:HG23	9:C:1301:HOH:O	2.18	0.44
5:P:104:ARG:HG2	9:P:4251:HOH:O	2.16	0.44
3:N:827:ILE:O	3:N:837:GLY:HA3	2.18	0.44
1:B:175:ARG:HD3	1:B:175:ARG:HA	1.73	0.44
1:K:179:PHE:HE2	9:K:3599:HOH:O	2.00	0.44
3:D:1009:LYS:O	3:D:1013:GLU:HG3	2.18	0.44
5:F:372:ARG:HG2	9:F:685:HOH:O	2.17	0.44
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.18	0.44
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.44
1:A:184:THR:HG23	1:A:192:LEU:CB	2.46	0.44
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.99	0.44
3:D:105:VAL:HG13	3:D:124:GLU:OE1	2.18	0.44
2:M:332:ARG:HB2	2:M:466:PHE:HE1	1.83	0.44
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.18	0.44
2:C:305:PRO:HA	2:C:308:ARG:HE	1.82	0.44
5:F:319:THR:HG22	5:F:320:PRO:HD2	2.00	0.44
3:D:1468:LEU:HD22	3:D:1470:ARG:HG3	2.00	0.44
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.99	0.44
3:D:186:VAL:HG13	3:D:187:LYS:N	2.31	0.44
3:N:34:TYR:OH	5:P:264:MET:HG3	2.18	0.44
3:N:535:PHE:O	5:P:314:PRO:HA	2.17	0.44
3:D:600:LEU:HD23	3:D:600:LEU:N	2.32	0.44
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.98	0.44
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.38	0.44
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.46	0.44
2:C:876:VAL:O	2:C:879:ARG:O	2.36	0.44
4:E:87:LYS:HB2	9:E:127:HOH:O	2.17	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
3:N:1312:LEU:HG	3:N:1327:ARG:HG3	1.98	0.44
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.17	0.44
3:N:866:VAL:HG12	3:N:867:ARG:N	2.31	0.44
2:M:747:ALA:O	2:M:799:ILE:HA	2.18	0.44
3:N:1391:GLU:HB3	3:N:1393:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:407:LYS:HB3	9:F:453:HOH:O	2.18	0.44
2:C:265:ARG:HB2	9:C:1143:HOH:O	2.16	0.44
1:K:225:PHE:CE1	1:L:25:LEU:HD22	2.52	0.44
1:K:175:ARG:NH2	1:K:202:ASP:HA	2.33	0.44
5:F:401:GLU:O	5:F:405:LEU:HD13	2.17	0.44
1:A:182:GLU:OE1	2:C:934:PHE:HB3	2.18	0.44
3:N:1364:HIS:ND1	3:N:1365:ASP:N	2.65	0.44
2:C:918:LEU:HD23	2:C:967:PHE:O	2.17	0.44
3:N:1385:GLY:HA3	9:N:9569:HOH:O	2.16	0.44
2:C:39:ARG:HG3	9:C:1262:HOH:O	2.18	0.44
3:D:1114:THR:HG23	3:D:1114:THR:O	2.17	0.44
3:D:617:ASN:HA	3:D:617:ASN:HD22	1.62	0.44
2:C:81:ASP:HB2	9:C:1292:HOH:O	2.17	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD2	2.00	0.44
3:N:905:PRO:HD3	9:N:9581:HOH:O	2.17	0.44
2:M:262:ALA:O	2:M:264:PRO:O	2.36	0.44
2:M:290:LEU:HA	9:M:1823:HOH:O	2.18	0.44
3:N:172:PRO:HG3	3:N:178:LEU:HD13	2.00	0.44
3:N:185:VAL:HG22	9:N:2180:HOH:O	2.18	0.44
5:P:159:ILE:O	5:P:163:LEU:HG	2.18	0.44
2:M:428:ARG:HH21	2:M:451:LEU:CD1	2.30	0.44
2:C:437:ARG:HA	2:C:467:ILE:HG21	2.00	0.44
1:B:51:THR:HB	9:B:467:HOH:O	2.17	0.44
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.53	0.44
3:D:1465:ASN:HD21	3:D:1470:ARG:NE	2.16	0.44
2:M:442:GLU:CG	2:M:454:SER:H	2.31	0.44
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.99	0.44
2:C:599:GLU:HB3	9:C:1560:HOH:O	2.17	0.44
3:D:1065:LEU:HD13	3:D:1069:GLU:HB2	2.00	0.44
2:C:611:ILE:HD11	2:C:641:PRO:HG3	1.98	0.44
3:D:781:PRO:HB3	3:D:785:ILE:HB	2.00	0.44
3:D:794:GLN:HB3	3:D:794:GLN:HE21	1.58	0.44
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.53	0.44
1:K:19:GLU:CD	1:K:19:GLU:N	2.71	0.44
5:P:291:ILE:HG12	5:P:304:VAL:HG11	2.00	0.44
3:N:783:ARG:HG2	3:N:783:ARG:HH11	1.82	0.44
3:D:1044:LEU:HD23	9:D:9902:HOH:O	2.18	0.44
2:M:780:GLU:HG3	2:M:781:LYS:N	2.31	0.44
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.33	0.44
3:D:558:LEU:HD13	5:F:145:PRO:HB3	2.00	0.44
2:C:194:VAL:HG21	2:C:221:LEU:HA	2.00	0.44
2:C:198:ARG:CZ	2:C:228:ALA:O	2.65	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:20:TYR:CE2	1:K:22:GLU:HG3	2.52	0.44
3:N:75:ARG:HB2	9:N:9306:HOH:O	2.17	0.44
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.21	0.44
4:E:37:ASN:HD22	4:E:89:MET:CE	2.31	0.44
3:N:674:ARG:HH11	3:N:674:ARG:HG2	1.82	0.44
1:A:52:ALA:HB2	1:A:170:VAL:O	2.18	0.44
5:P:391:GLY:HA3	9:P:3841:HOH:O	2.18	0.44
2:M:218:VAL:HG22	2:M:221:LEU:HD21	1.99	0.44
3:N:1481:VAL:HA	4:O:18:ARG:HH21	1.83	0.44
3:N:161:LEU:HD13	9:N:9313:HOH:O	2.17	0.44
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.99	0.44
2:C:437:ARG:HE	2:C:469:THR:H	1.65	0.44
2:C:504:GLU:CG	2:C:507:ARG:HB2	2.48	0.44
3:N:112:ILE:HD13	3:N:461:ILE:HG21	2.00	0.44
3:D:148:GLU:HG3	9:D:9078:HOH:O	2.18	0.44
3:D:171:LEU:C	3:D:171:LEU:HD12	2.38	0.44
3:D:444:VAL:O	3:D:446:VAL:HG23	2.17	0.44
3:N:950:GLY:O	3:N:953:ASP:N	2.41	0.44
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.33	0.44
2:C:430:VAL:O	3:D:1075:HIS:ND1	2.51	0.44
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.18	0.44
3:D:810:GLU:HA	3:D:813:LEU:CD2	2.47	0.44
2:C:269:LEU:HD12	2:C:288:ARG:HG3	1.99	0.44
3:D:122:GLU:HG3	9:D:9582:HOH:O	2.18	0.44
2:C:420:ARG:CD	2:C:420:ARG:H	2.29	0.44
1:B:98:THR:HG22	1:B:100:LEU:CD2	2.48	0.44
3:D:545:ARG:HD2	9:D:9153:HOH:O	2.18	0.44
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.18	0.44
1:B:83:LYS:HE3	1:B:167:VAL:CG1	2.46	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.50	0.44
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	2.00	0.44
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.17	0.44
1:K:12:THR:HG21	9:K:5148:HOH:O	2.17	0.44
3:N:1108:ARG:HH21	3:N:1198:TYR:C	2.21	0.44
2:M:356:ARG:HD3	9:M:1999:HOH:O	2.17	0.44
3:D:1442:ASN:HA	9:D:9032:HOH:O	2.17	0.44
2:C:185:LYS:HG2	2:C:190:LYS:CG	2.47	0.44
5:F:321:ILE:O	5:F:327:SER:HB3	2.18	0.44
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.79	0.44
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.45	0.44
1:B:182:GLU:N	9:B:579:HOH:O	2.50	0.44
2:M:893:ALA:HB2	2:M:918:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1318:TYR:CD1	3:D:1319:VAL:N	2.84	0.44
2:C:339:LEU:HB3	2:C:385:PHE:CZ	2.53	0.44
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.18	0.44
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.52	0.44
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.33	0.44
3:D:500:ARG:NH1	3:D:500:ARG:HG3	2.33	0.44
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.99	0.44
3:D:925:GLU:HA	9:D:9129:HOH:O	2.17	0.44
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.99	0.44
2:C:267:TYR:N	2:C:267:TYR:CD2	2.85	0.44
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.33	0.44
2:M:56:GLU:HG2	2:M:64:LEU:HD23	2.00	0.44
2:M:642:ARG:HG3	2:M:654:LEU:HD21	2.00	0.44
1:A:89:PHE:HB2	1:A:94:LEU:HD13	2.00	0.44
2:M:835:VAL:HG13	3:N:725:SER:OG	2.18	0.44
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.91	0.44
5:P:231:ARG:HD3	9:P:4958:HOH:O	2.17	0.44
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
3:N:178:LEU:HG	3:N:200:ASP:H	1.83	0.43
3:N:215:TYR:O	3:N:389:GLU:HB3	2.18	0.43
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.33	0.43
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.18	0.43
2:C:185:LYS:HB3	2:C:188:LYS:O	2.17	0.43
3:D:80:VAL:HG12	3:D:81:THR:O	2.18	0.43
2:M:9:ILE:HD13	2:M:536:PRO:HD2	1.99	0.43
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.30	0.43
3:D:1459:LEU:HD12	3:D:1470:ARG:NH1	2.33	0.43
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.15	0.43
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.99	0.43
1:L:206:THR:HG23	1:L:208:LEU:N	2.33	0.43
3:D:1087:ARG:C	9:D:9918:HOH:O	2.57	0.43
2:M:586:ARG:NH1	2:M:590:ASP:OD2	2.51	0.43
2:C:267:TYR:H	2:C:267:TYR:HD2	1.65	0.43
3:N:513:ILE:HB	9:N:9876:HOH:O	2.18	0.43
2:M:413:LEU:HD13	2:M:448:ASN:OD1	2.18	0.43
2:M:594:ALA:HB3	2:M:596:TYR:HE1	1.83	0.43
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.53	0.43
2:M:108:ILE:HD12	2:M:108:ILE:N	2.33	0.43
3:N:787:LEU:O	3:N:787:LEU:HD12	2.18	0.43
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.58	0.43
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.34	0.43
3:D:169:TYR:N	3:D:170:PRO:HD2	2.33	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1019:GLN:HE22	3:N:621:LYS:HG2	1.83	0.43
5:P:414:ARG:HG3	9:P:4806:HOH:O	2.18	0.43
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.43
3:N:1337:GLU:HB3	9:N:9327:HOH:O	2.17	0.43
3:N:614:PHE:O	3:N:617:ASN:HB2	2.17	0.43
3:N:534:ARG:HG2	9:P:3569:HOH:O	2.17	0.43
2:M:554:ASP:HB3	2:M:880:MET:O	2.18	0.43
1:L:63:HIS:HB3	9:L:3555:HOH:O	2.18	0.43
2:M:292:ARG:CD	2:M:299:LYS:HD3	2.45	0.43
2:C:19:THR:HG21	2:C:124:ASP:O	2.18	0.43
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.48	0.43
2:M:571:LEU:HD21	2:M:700:TYR:HD2	1.83	0.43
3:N:880:ILE:O	3:N:883:ALA:HB3	2.18	0.43
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.48	0.43
2:C:1039:ALA:HB2	3:D:707:THR:HG21	2.00	0.43
2:M:917:LEU:HD23	2:M:920:GLN:NE2	2.32	0.43
3:N:1209:LEU:HD12	3:N:1216:SER:HB2	1.99	0.43
3:N:1406:ARG:HG3	3:N:1412:LYS:HG2	2.00	0.43
3:D:947:ILE:H	3:D:947:ILE:HG13	1.57	0.43
2:C:262:ALA:O	2:C:264:PRO:O	2.36	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.51	0.43
2:C:101:ILE:HD12	2:C:107:LEU:HD22	2.00	0.43
1:K:217:ILE:HG23	9:K:6003:HOH:O	2.18	0.43
3:N:684:LYS:H	3:N:684:LYS:HG3	1.59	0.43
2:C:722:ILE:HG21	2:C:805:ARG:HH21	1.82	0.43
3:D:900:ILE:CD1	3:D:902:LEU:HD23	2.48	0.43
2:M:577:PRO:HD2	2:M:580:MET:HG2	1.99	0.43
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.99	0.43
2:M:383:ARG:HB2	2:M:383:ARG:CZ	2.47	0.43
5:F:360:LYS:HA	9:F:621:HOH:O	2.17	0.43
2:M:1104:GLU:H	2:M:1104:GLU:CD	2.21	0.43
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.33	0.43
2:M:708:TYR:HD1	2:M:708:TYR:H	1.64	0.43
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.43
2:C:165:LEU:HA	2:C:166:PRO:O	2.18	0.43
3:D:903:ASP:HB3	9:D:9214:HOH:O	2.17	0.43
1:K:44:LEU:O	1:K:174:VAL:HG21	2.18	0.43
3:N:456:MET:HE3	3:N:568:ARG:HD3	2.00	0.43
2:M:304:LEU:HD21	9:M:1857:HOH:O	2.17	0.43
2:M:301:GLU:O	2:M:305:PRO:HG2	2.19	0.43
3:D:1235:GLN:O	3:D:1237:THR:N	2.51	0.43
3:N:567:ILE:HG22	3:N:571:LYS:CE	2.47	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.16	0.43
3:D:45:PHE:CD1	3:D:86:ARG:NH2	2.86	0.43
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.18	0.43
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.81	0.43
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.18	0.43
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.82	0.43
2:M:897:LEU:HB3	2:M:899:GLN:HG2	2.00	0.43
5:F:361:LEU:CD2	5:F:362:SER:H	2.22	0.43
3:D:186:VAL:HG11	3:D:213:VAL:HB	2.00	0.43
2:M:1043:TYR:HE2	3:N:768:ASN:ND2	2.17	0.43
2:C:244:PRO:CD	2:C:245:GLY:N	2.81	0.43
3:N:1390:LEU:HD11	9:N:9190:HOH:O	2.17	0.43
3:D:1045:MET:N	9:D:9034:HOH:O	2.51	0.43
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.53	0.43
3:D:912:LYS:O	3:D:915:VAL:HG23	2.19	0.43
3:D:847:ASP:O	3:D:851:LEU:HG	2.19	0.43
2:C:1007:ALA:HB2	9:C:1170:HOH:O	2.18	0.43
2:C:759:THR:HB	2:C:785:VAL:HG21	2.00	0.43
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.48	0.43
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.99	0.43
2:M:77:PRO:HD2	2:M:91:GLN:O	2.18	0.43
3:D:928:ALA:O	3:D:931:LEU:HB2	2.18	0.43
5:F:282:LEU:HB2	5:F:284:ARG:H	1.83	0.43
2:C:141:HIS:HB2	2:C:418:LEU:HD12	2.00	0.43
3:D:1119:SER:HA	3:D:1186:VAL:O	2.18	0.43
3:D:414:ARG:HB3	9:D:9281:HOH:O	2.19	0.43
3:D:988:ARG:O	3:D:992:ILE:HG13	2.19	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.82	0.43
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.18	0.43
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.48	0.43
3:D:618:LEU:HG	9:D:9956:HOH:O	2.18	0.43
1:A:163:ASN:HD22	1:A:163:ASN:HA	1.65	0.43
2:M:1019:GLN:NE2	3:N:621:LYS:HG2	2.33	0.43
5:F:421:PHE:C	5:F:423:ASP:H	2.22	0.43
3:D:416:ALA:H	3:D:417:PRO:CD	2.30	0.43
2:C:619:ARG:HA	9:C:1206:HOH:O	2.18	0.43
2:C:455:LEU:H	2:C:455:LEU:HD23	1.82	0.43
1:B:106:PRO:HG3	1:B:133:GLU:O	2.19	0.43
2:C:534:VAL:H	2:C:538:GLN:NE2	2.15	0.43
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.47	0.43
2:M:433:THR:C	2:M:435:TYR:H	2.22	0.43
3:D:804:LEU:HD23	3:D:804:LEU:H	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	2.01	0.43
5:F:320:PRO:HB2	5:F:324:GLU:HG3	2.00	0.43
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.38	0.43
3:D:190:GLU:HB3	9:D:9431:HOH:O	2.18	0.43
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.00	0.43
3:D:423:ASP:OD1	5:F:174:LEU:HD13	2.18	0.43
3:N:169:TYR:HA	3:N:392:SER:HA	2.00	0.43
3:D:543:LEU:O	3:D:546:ARG:HB2	2.19	0.43
3:D:1065:LEU:HD12	3:D:1065:LEU:C	2.38	0.43
2:M:95:TYR:CD1	2:M:95:TYR:N	2.87	0.43
3:N:764:LEU:HD12	3:N:765:SER:H	1.83	0.43
3:D:374:GLU:HA	9:D:2147:HOH:O	2.17	0.43
1:A:132:LEU:HD12	1:A:132:LEU:N	2.33	0.43
3:N:1267:ARG:NH1	3:N:1331:ASP:HB2	2.29	0.43
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.19	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.51	0.43
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.81	0.43
2:C:57:GLU:HG2	9:C:1767:HOH:O	2.18	0.43
5:P:225:GLU:HB2	9:P:3558:HOH:O	2.17	0.43
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.54	0.43
3:N:938:GLY:O	3:N:942:SER:HB3	2.18	0.43
3:D:621:LYS:NZ	9:D:9787:HOH:O	2.51	0.43
2:M:260:LEU:HA	2:M:291:ALA:HB2	2.00	0.43
2:M:148:PHE:CE1	2:M:309:TYR:HB3	2.54	0.43
3:N:1097:LYS:O	3:N:1101:VAL:HG22	2.19	0.43
1:A:29:GLU:HB3	1:A:30:ARG:H	1.69	0.43
5:P:131:VAL:HG13	5:P:178:ARG:HG2	2.01	0.43
2:M:438:ILE:HG12	9:M:1460:HOH:O	2.17	0.43
3:N:41:ARG:HD3	3:N:42:ASP:N	2.34	0.43
2:C:352:ALA:O	2:C:355:VAL:HG12	2.19	0.43
2:M:575:GLN:HA	2:M:662:GLU:CD	2.39	0.43
3:N:127:LEU:HD23	3:N:134:VAL:HG11	1.99	0.43
3:D:972:LEU:CD2	3:D:973:GLN:HE21	2.31	0.43
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	2.00	0.43
1:B:182:GLU:O	1:B:194:LYS:HB3	2.19	0.43
3:D:396:VAL:HG13	3:D:446:VAL:O	2.19	0.43
2:C:47:ALA:HB1	2:C:345:ARG:HB3	2.00	0.43
3:D:1264:GLU:HB3	3:D:1266:ARG:NE	2.33	0.43
3:N:396:VAL:HG13	3:N:446:VAL:O	2.18	0.43
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.74	0.43
2:C:501:THR:HG22	2:C:513:VAL:CG2	2.49	0.43
3:D:1068:LEU:C	3:D:1070:TYR:N	2.71	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:15:LEU:HD13	2:C:583:LEU:HD11	1.99	0.43
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.34	0.43
2:C:78:PHE:HB3	2:C:79:PRO:HD2	2.00	0.43
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.83	0.43
2:C:91:GLN:HE21	2:C:119:PRO:HD3	1.83	0.43
2:M:1108:PRO:HD3	9:M:1260:HOH:O	2.18	0.43
2:M:654:LEU:HD11	2:M:657:ASP:HA	2.00	0.43
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.53	0.43
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.17	0.43
3:D:34:TYR:CD2	3:D:34:TYR:N	2.87	0.43
4:E:45:ARG:HB2	4:E:46:PRO:CD	2.49	0.43
3:D:894:LYS:HD3	9:D:9911:HOH:O	2.17	0.43
3:D:914:LEU:O	3:D:914:LEU:HD23	2.19	0.43
5:P:232:ARG:HA	5:P:232:ARG:HD2	1.89	0.43
2:M:496:ILE:HD12	2:M:496:ILE:H	1.83	0.43
2:M:421:GLU:HB3	9:M:2092:HOH:O	2.18	0.43
9:N:9213:HOH:O	5:P:136:LEU:HD21	2.19	0.43
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.99	0.43
1:A:38:ASN:ND2	9:A:334:HOH:O	2.52	0.43
3:D:1237:THR:HG21	9:D:9202:HOH:O	2.19	0.43
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.19	0.43
5:P:213:ILE:HG22	5:P:217:ASN:OD1	2.19	0.43
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.53	0.43
2:C:172:ILE:N	2:C:172:ILE:HD12	2.32	0.43
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.38	0.43
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.54	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HG3	2.43	0.43
1:B:184:THR:O	1:B:192:LEU:HB2	2.18	0.43
2:M:939:ARG:HG3	9:M:1198:HOH:O	2.18	0.43
3:D:1495:ILE:O	3:D:1499:ARG:HG3	2.19	0.43
3:D:185:VAL:HG12	3:D:191:LEU:HD21	2.01	0.43
2:C:347:GLY:HA2	2:C:350:ARG:CD	2.48	0.43
2:C:944:LEU:HD22	2:C:962:GLN:OE1	2.18	0.43
3:D:131:LYS:HE2	3:D:568:ARG:CB	2.48	0.43
1:L:206:THR:HG23	1:L:208:LEU:H	1.83	0.43
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.33	0.43
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.83	0.43
1:A:150:TYR:OH	2:C:832:LYS:HE3	2.18	0.43
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.99	0.43
1:K:47:SER:HA	9:K:4719:HOH:O	2.18	0.43
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.33	0.43
1:K:76:VAL:O	1:K:79:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:837:ASP:O	2:C:849:VAL:HG23	2.19	0.43
3:N:410:SER:CB	3:N:414:ARG:HH21	2.32	0.43
1:L:74:ASP:HB3	9:N:9057:HOH:O	2.19	0.43
5:P:392:VAL:HG12	5:P:396:ARG:HG3	2.00	0.43
5:P:247:ILE:O	5:P:251:ILE:HG13	2.19	0.43
4:O:23:VAL:CG2	4:O:65:MET:HG2	2.49	0.43
3:N:606:ILE:O	3:N:613:ARG:HB2	2.18	0.43
4:E:49:GLN:HA	4:E:51:LEU:O	2.19	0.43
2:M:394:PHE:HB3	9:M:1953:HOH:O	2.18	0.43
2:M:937:ASP:HB2	2:M:940:GLU:HB2	2.01	0.43
2:C:393:GLN:HG2	9:C:1727:HOH:O	2.17	0.43
3:N:965:GLU:O	3:N:968:ASP:HB3	2.19	0.43
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.49	0.43
3:D:1408:ILE:HG12	9:D:9641:HOH:O	2.18	0.43
5:F:271:LEU:HD11	5:F:307:THR:HB	2.01	0.43
1:A:23:PHE:O	1:A:196:THR:HA	2.19	0.43
1:A:221:HIS:HB3	1:B:36:LEU:HD21	1.99	0.43
2:M:141:HIS:NE2	2:M:332:ARG:HD3	2.34	0.43
5:F:188:ILE:HA	9:F:598:HOH:O	2.18	0.43
2:C:774:LEU:HA	2:C:777:ILE:HD12	2.00	0.43
3:N:21:TRP:HZ3	3:N:518:PRO:HG2	1.84	0.43
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.43
3:D:969:ARG:HB3	3:D:969:ARG:HE	1.63	0.43
2:C:721:ARG:HH21	2:C:783:ARG:NH2	2.04	0.43
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.33	0.43
2:M:674:VAL:O	2:M:989:VAL:HA	2.18	0.43
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.19	0.43
2:M:771:GLU:HA	9:M:1452:HOH:O	2.18	0.43
2:M:775:ARG:N	2:M:775:ARG:HD2	2.33	0.43
3:D:57:GLU:OE1	3:D:64:LYS:HE2	2.19	0.43
1:B:211:LEU:O	1:B:214:ALA:HB3	2.19	0.43
5:P:410:TYR:O	5:P:413:SER:HB2	2.18	0.43
9:B:529:HOH:O	3:D:851:LEU:HD21	2.16	0.43
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.54	0.43
2:M:1020:PRO:HD2	3:N:622:ARG:O	2.19	0.43
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.22	0.43
5:P:211:ASP:N	5:P:211:ASP:OD1	2.51	0.43
1:K:38:ASN:HB3	1:K:39:PRO:HD3	2.00	0.43
3:D:565:ILE:HD12	3:D:565:ILE:H	1.84	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.48	0.43
2:C:317:VAL:HG12	9:C:1216:HOH:O	2.19	0.43
2:C:213:ALA:N	9:C:1550:HOH:O	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:109:VAL:HG22	9:B:383:HOH:O	2.18	0.43
2:M:1045:ALA:HB1	2:M:1048:THR:HB	2.00	0.43
3:N:1353:GLN:HG2	3:N:1368:ILE:CD1	2.48	0.43
2:M:283:ILE:HG22	2:M:284:ARG:HG3	2.01	0.43
3:N:591:VAL:HG11	3:N:597:ASP:HA	2.01	0.43
1:A:122:ILE:HD11	9:A:394:HOH:O	2.18	0.43
5:F:119:ILE:HD11	9:F:580:HOH:O	2.18	0.43
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.87	0.43
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.19	0.43
5:P:294:ALA:HB2	9:P:3652:HOH:O	2.19	0.43
2:M:183:SER:C	2:M:193:LEU:HD11	2.38	0.43
2:C:436:GLY:O	2:C:459:ALA:HB2	2.19	0.43
2:M:342:ASP:HA	2:M:345:ARG:HG2	1.99	0.43
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.19	0.43
3:N:66:GLN:O	3:N:69:GLU:HB3	2.19	0.43
3:D:521:PRO:O	3:D:525:ARG:HG2	2.19	0.43
2:C:437:ARG:HG2	2:C:467:ILE:CG2	2.47	0.43
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.99	0.43
2:M:9:ILE:HD13	2:M:536:PRO:CD	2.49	0.43
2:M:546:LEU:HA	2:M:581:THR:HG1	1.82	0.43
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.19	0.43
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.48	0.43
5:P:358:LEU:HD11	5:P:367:MET:SD	2.59	0.43
2:M:405:ARG:HD2	2:M:442:GLU:OE2	2.19	0.43
2:C:332:ARG:HB2	2:C:466:PHE:CE1	2.54	0.43
4:E:35:PHE:HZ	4:E:60:ALA:HA	1.83	0.43
5:P:115:LYS:O	5:P:119:ILE:HG13	2.19	0.43
1:L:54:THR:HG22	1:L:158:ILE:HG13	2.01	0.43
3:N:834:THR:HB	3:N:838:ARG:HB3	2.00	0.43
3:D:141:ILE:HD13	3:D:450:TYR:N	2.34	0.43
2:C:286:SER:CB	2:C:299:LYS:HE3	2.48	0.43
3:N:1492:LEU:HD12	3:N:1493:LYS:CE	2.48	0.43
3:N:443:VAL:HG11	3:N:445:ARG:HE	1.82	0.43
1:L:81:ASN:ND2	1:L:128:HIS:O	2.52	0.43
3:N:1153:VAL:HG12	3:N:1155:VAL:HG23	2.00	0.43
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.83	0.43
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.83	0.43
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.43
3:D:902:LEU:HG	9:D:9056:HOH:O	2.18	0.43
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.34	0.43
3:D:953:ASP:O	3:D:955:VAL:HG23	2.19	0.43
2:M:582:GLY:N	2:M:584:GLU:OE2	2.44	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:9:LEU:HD22	4:E:19:LEU:HD11	2.01	0.43
3:N:799:LYS:N	3:N:826:PRO:HG2	2.34	0.43
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.01	0.43
2:C:881:ASN:HD22	2:C:881:ASN:N	2.14	0.43
2:C:165:LEU:HD12	2:C:166:PRO:C	2.38	0.43
3:D:960:LYS:HB3	9:D:9060:HOH:O	2.18	0.43
2:M:585:GLU:HG2	9:M:1469:HOH:O	2.18	0.43
3:D:1183:ILE:HG22	9:D:9139:HOH:O	2.17	0.43
3:D:882:PHE:O	3:D:886:VAL:HG23	2.18	0.43
5:P:262:VAL:N	9:P:4345:HOH:O	2.51	0.43
3:N:1260:ILE:HA	3:N:1260:ILE:HD13	1.86	0.43
3:N:775:GLY:HA2	9:N:9022:HOH:O	2.19	0.43
5:P:74:LYS:HG2	9:P:4226:HOH:O	2.19	0.43
2:M:81:ASP:HB3	9:M:2035:HOH:O	2.19	0.43
2:M:166:PRO:HD3	2:M:265:ARG:HG3	2.01	0.43
3:N:85:VAL:HB	3:N:89:ARG:NH1	2.33	0.43
3:N:625:TYR:N	3:N:625:TYR:CD1	2.87	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.91	0.43
5:P:185:GLN:HG3	9:P:4903:HOH:O	2.19	0.43
2:C:438:ILE:HG22	2:C:439:CYS:O	2.19	0.43
2:C:409:ARG:HA	2:C:454:SER:HA	2.01	0.43
2:C:352:ALA:C	2:C:355:VAL:HG12	2.39	0.43
2:C:355:VAL:HB	9:C:1597:HOH:O	2.17	0.43
2:M:691:SER:HB2	2:M:858:MET:SD	2.59	0.43
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.44	0.43
1:L:133:GLU:N	9:L:4988:HOH:O	2.51	0.43
1:L:23:PHE:CE1	1:L:208:LEU:HD22	2.54	0.43
1:L:12:THR:OG1	1:L:24:VAL:HB	2.18	0.43
3:D:591:VAL:HG12	3:D:592:THR:O	2.19	0.43
3:D:64:LYS:N	3:D:68:PHE:HZ	2.16	0.43
1:B:44:LEU:HD11	1:B:199:ILE:HD11	1.99	0.43
2:C:564:MET:CE	2:C:846:LYS:HE2	2.49	0.43
3:D:947:ILE:O	3:D:947:ILE:HD12	2.18	0.43
3:D:1403:LEU:HD12	9:D:9824:HOH:O	2.19	0.43
2:M:358:ARG:HB3	2:M:371:LYS:O	2.19	0.43
2:C:110:GLU:H	2:C:368:THR:HG21	1.83	0.43
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.48	0.43
3:D:1475:GLY:HA2	4:E:17:TYR:CE1	2.54	0.43
3:N:765:SER:O	3:N:767:HIS:N	2.51	0.43
2:M:42:VAL:HG12	2:M:43:GLY:N	2.29	0.43
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.84	0.43
1:B:2:LEU:HD12	1:B:3:ASP:HB2	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:218:VAL:HG22	2:C:221:LEU:HD23	2.01	0.43
3:D:545:ARG:HH21	5:F:257:THR:HG23	1.83	0.43
5:P:243:ILE:O	5:P:247:ILE:HG13	2.18	0.43
3:D:1405:GLU:OE2	3:D:1413:THR:HB	2.19	0.43
3:N:1353:GLN:HE21	3:N:1353:GLN:HB3	1.64	0.43
1:A:61:VAL:HG11	1:A:75:VAL:HG21	2.01	0.43
3:D:829:VAL:HG11	9:D:9455:HOH:O	2.18	0.43
2:M:420:ARG:NE	2:M:420:ARG:H	2.17	0.43
3:D:918:ALA:O	3:D:922:LEU:HG	2.18	0.43
1:B:213:GLN:HG3	9:B:515:HOH:O	2.17	0.43
2:C:127:PHE:O	2:C:133:ASP:HA	2.19	0.43
2:M:148:PHE:HD2	2:M:160:ALA:HA	1.84	0.43
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.54	0.43
2:M:686:ASP:HB2	3:N:739:ASP:OD2	2.18	0.43
3:D:422:ALA:O	3:D:427:VAL:HG21	2.19	0.43
1:A:38:ASN:ND2	9:C:1607:HOH:O	2.52	0.43
2:C:579:VAL:HG11	2:C:887:GLU:HG3	2.01	0.43
2:M:324:ASP:CG	2:M:431:HIS:HE1	2.22	0.43
2:C:183:SER:HB2	2:C:190:LYS:HG2	2.01	0.43
2:C:777:ILE:HD13	9:C:1214:HOH:O	2.18	0.43
3:D:972:LEU:HD23	9:D:2386:HOH:O	2.19	0.43
3:D:1496:GLU:HA	3:D:1499:ARG:HG3	2.01	0.43
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.19	0.43
1:B:162:ILE:HG13	1:B:163:ASN:N	2.34	0.43
2:M:721:ARG:O	2:M:758:ARG:HA	2.19	0.43
5:P:273:ARG:O	5:P:276:ARG:HB2	2.19	0.43
3:D:806:PHE:O	3:D:807:ALA:C	2.56	0.43
3:D:164:GLY:HA2	9:D:9007:HOH:O	2.18	0.43
3:N:445:ARG:HH11	3:N:445:ARG:HG2	1.84	0.43
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.33	0.43
3:N:482:LYS:HA	3:N:489:ARG:NH2	2.34	0.43
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.48	0.43
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.00	0.43
3:D:702:LEU:HB3	3:D:745:MET:CE	2.49	0.43
2:M:134:ARG:HH12	2:M:387:SER:HA	1.82	0.43
3:D:36:THR:O	3:D:38:LYS:N	2.51	0.43
2:C:816:LYS:O	2:C:819:VAL:HB	2.19	0.43
2:M:217:LEU:HD12	2:M:311:PHE:CD2	2.54	0.43
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.53	0.43
2:C:25:SER:CB	2:C:335:THR:HB	2.49	0.43
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.53	0.43
3:N:729:HIS:CE1	3:N:935:LYS:HD3	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:69:LEU:HD11	2:M:99:GLN:HE21	1.84	0.43
3:D:1013:GLU:HA	9:D:9714:HOH:O	2.18	0.43
3:D:761:ILE:HD13	4:E:20:THR:HA	2.00	0.43
1:A:1:MET:O	1:A:6:LEU:HB2	2.19	0.43
2:M:808:ARG:HD2	2:M:808:ARG:HA	1.89	0.43
1:B:165:ILE:O	1:B:165:ILE:HG13	2.19	0.43
3:D:657:LEU:HD21	3:D:687:VAL:HG13	2.00	0.43
2:M:184:MET:SD	2:M:303:PHE:HE2	2.42	0.42
2:M:1115:LEU:CB	3:N:85:VAL:HG12	2.46	0.42
3:N:760:ARG:NE	4:O:3:GLU:OE2	2.48	0.42
3:N:563:PRO:HG2	3:N:566:ILE:HB	2.01	0.42
2:C:159:ILE:HD12	9:C:1237:HOH:O	2.19	0.42
2:C:184:MET:HB2	2:C:193:LEU:HD12	2.01	0.42
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.46	0.42
3:N:153:LEU:HD12	3:N:154:THR:N	2.34	0.42
3:D:667:ALA:HB3	9:D:9062:HOH:O	2.20	0.42
3:N:1112:CYS:HB3	9:N:9751:HOH:O	2.19	0.42
2:M:565:GLN:OE1	2:M:842:ARG:HG2	2.19	0.42
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.33	0.42
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.19	0.42
2:C:321:GLU:HG2	2:C:321:GLU:H	1.57	0.42
3:N:516:ALA:O	3:N:518:PRO:HD3	2.19	0.42
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.83	0.42
3:D:396:VAL:HG22	9:D:9055:HOH:O	2.18	0.42
3:D:616:GLN:O	3:D:616:GLN:HG2	2.19	0.42
2:M:569:VAL:HG11	2:M:996:LYS:HZ2	1.83	0.42
4:E:87:LYS:HG2	9:E:103:HOH:O	2.19	0.42
2:C:299:LYS:HB2	9:C:1862:HOH:O	2.19	0.42
2:M:470:PRO:HD3	2:M:485:TYR:CE2	2.54	0.42
2:M:535:SER:O	2:M:538:GLN:HG2	2.19	0.42
1:A:34:VAL:HG21	2:C:939:ARG:NE	2.34	0.42
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.32	0.42
2:C:841:ASN:ND2	2:C:843:HIS:H	2.13	0.42
1:B:142:VAL:HG23	1:B:142:VAL:O	2.19	0.42
3:D:583:ASP:OD2	3:D:586:ARG:HD2	2.19	0.42
1:A:97:VAL:HG23	9:A:368:HOH:O	2.18	0.42
1:A:176:ARG:NH1	2:C:863:ASP:OD2	2.52	0.42
3:N:102:ILE:N	9:N:2184:HOH:O	2.51	0.42
3:N:1364:HIS:CE1	3:N:1366:LYS:H	2.35	0.42
5:F:419:ARG:O	5:F:421:PHE:N	2.52	0.42
3:N:1275:SER:HB3	3:N:1325:LEU:HD22	2.00	0.42
3:N:964:LEU:HB3	9:N:2215:HOH:O	2.18	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1376:MET:HB2	9:N:9599:HOH:O	2.18	0.42
2:C:189:ARG:HG2	2:C:189:ARG:HH11	1.84	0.42
5:P:203:THR:HG22	5:P:204:GLY:N	2.34	0.42
1:A:20:TYR:HE2	1:A:22:GLU:HG3	1.84	0.42
5:P:195:VAL:HG12	5:P:213:ILE:HG23	2.00	0.42
2:M:414:GLY:HA3	2:M:415:PRO:HD3	1.91	0.42
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.82	0.42
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.49	0.42
3:D:804:LEU:HB3	9:D:9141:HOH:O	2.18	0.42
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.19	0.42
3:N:983:LEU:HD23	9:N:9324:HOH:O	2.19	0.42
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.47	0.42
5:P:370:LYS:C	5:P:370:LYS:HD2	2.39	0.42
3:D:209:ARG:NH1	3:D:397:LYS:HG3	2.34	0.42
3:D:399:ARG:HB2	3:D:444:VAL:HG13	2.00	0.42
2:C:802:ARG:HB2	9:C:2027:HOH:O	2.19	0.42
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.82	0.42
3:D:1059:SER:OG	3:D:1065:LEU:HA	2.19	0.42
1:A:206:THR:HG22	1:A:209:GLU:H	1.83	0.42
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.42
3:D:567:ILE:HG22	3:D:571:LYS:HZ2	1.84	0.42
2:M:811:PRO:HA	9:M:1349:HOH:O	2.18	0.42
2:M:603:VAL:O	2:M:646:GLY:HA2	2.19	0.42
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	2.01	0.42
2:M:114:PHE:HE1	9:P:4182:HOH:O	2.01	0.42
3:D:153:LEU:HD13	3:D:157:GLU:HB2	1.99	0.42
4:E:17:TYR:CD2	4:E:17:TYR:N	2.87	0.42
3:D:32:ILE:HG22	5:F:258:ILE:HD12	2.02	0.42
2:C:197:LEU:HD22	2:C:202:TYR:CD2	2.54	0.42
3:D:1128:VAL:O	3:D:1129:THR:C	2.56	0.42
4:O:49:GLN:HA	4:O:51:LEU:O	2.19	0.42
3:N:149:LYS:HG3	3:N:149:LYS:H	1.53	0.42
3:D:574:LEU:O	3:D:577:ALA:HB3	2.19	0.42
1:A:180:GLN:HE22	2:C:929:ARG:NH2	2.17	0.42
3:N:1139:ASP:HB3	3:N:1357:ARG:NH2	2.34	0.42
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.49	0.42
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.52	0.42
1:K:52:ALA:HB2	1:K:170:VAL:O	2.19	0.42
3:D:427:VAL:HG21	3:D:435:VAL:HB	2.01	0.42
2:M:326:ASP:HB2	2:M:431:HIS:CG	2.53	0.42
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.41	0.42
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.49	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:367:MET:HE1	9:F:519:HOH:O	2.19	0.42
3:D:1377:LYS:O	3:D:1394:VAL:HA	2.18	0.42
2:M:676:ILE:HG21	2:M:988:VAL:HG22	2.01	0.42
2:M:971:LYS:HE2	3:N:950:GLY:HA3	2.01	0.42
1:L:24:VAL:HG11	1:L:194:LYS:HE2	2.01	0.42
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.19	0.42
2:M:287:GLY:O	2:M:288:ARG:C	2.58	0.42
2:M:752:GLY:N	2:M:792:VAL:HB	2.23	0.42
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.49	0.42
1:L:191:ASP:O	1:L:192:LEU:HG	2.19	0.42
2:C:474:VAL:HG13	2:C:530:GLU:C	2.40	0.42
1:K:56:VAL:HG21	1:K:82:LEU:CD1	2.49	0.42
3:N:744:GLN:HE21	3:N:744:GLN:HB3	1.62	0.42
1:B:69:PRO:O	1:B:71:VAL:HG23	2.20	0.42
1:L:140:MET:HB2	9:L:3859:HOH:O	2.18	0.42
2:C:122:THR:HG22	2:C:123:GLU:N	2.34	0.42
2:C:689:VAL:HB	2:C:870:ILE:HG13	2.01	0.42
1:K:10:VAL:HG12	1:K:12:THR:CG2	2.49	0.42
4:O:13:VAL:HG23	9:O:3506:HOH:O	2.18	0.42
3:D:1269:LYS:O	3:D:1269:LYS:HE2	2.18	0.42
3:D:180:LYS:HG2	9:D:9440:HOH:O	2.19	0.42
2:M:174:LEU:HD23	2:M:184:MET:HG2	2.02	0.42
2:C:798:GLY:HA2	9:C:1154:HOH:O	2.19	0.42
5:P:131:VAL:CG1	5:P:181:GLU:HG3	2.41	0.42
2:M:140:ILE:HD12	9:M:1151:HOH:O	2.18	0.42
2:M:412:ALA:O	2:M:414:GLY:N	2.53	0.42
3:D:800:LYS:HD3	3:D:804:LEU:HD22	2.01	0.42
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.49	0.42
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.50	0.42
2:C:479:VAL:HG23	2:C:506:ASN:C	2.40	0.42
2:C:52:PHE:HB2	9:C:1342:HOH:O	2.18	0.42
2:M:976:ASP:OD1	2:M:978:ARG:HD3	2.20	0.42
3:N:879:ARG:HD3	9:N:9187:HOH:O	2.18	0.42
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.53	0.42
2:M:1016:ILE:HD12	5:P:317:LEU:HD21	2.01	0.42
1:B:180:GLN:HB3	9:B:579:HOH:O	2.19	0.42
1:L:89:PHE:HE2	1:L:146:ARG:NE	2.17	0.42
3:N:493:ARG:CZ	3:N:493:ARG:HB2	2.49	0.42
3:N:494:LYS:HA	3:N:497:GLU:OE1	2.19	0.42
2:C:551:GLU:O	3:D:1065:LEU:HB3	2.19	0.42
3:D:528:VAL:O	3:D:535:PHE:CA	2.65	0.42
2:C:722:ILE:HG23	2:C:805:ARG:HH21	1.83	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:900:ILE:HD11	3:D:902:LEU:HD23	2.01	0.42
2:C:717:LEU:HB2	9:C:1324:HOH:O	2.19	0.42
2:C:404:LEU:O	2:C:408:ARG:HG2	2.19	0.42
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.35	0.42
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.20	0.42
3:D:152:LEU:HD23	3:D:152:LEU:N	2.34	0.42
1:K:184:THR:O	1:K:192:LEU:HD12	2.20	0.42
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	2.02	0.42
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.34	0.42
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.19	0.42
1:A:112:ARG:HA	9:A:459:HOH:O	2.20	0.42
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	2.00	0.42
4:O:74:VAL:HB	4:O:79:LEU:HD21	2.01	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.87	0.42
3:N:1344:VAL:HG12	3:N:1348:LEU:CD2	2.50	0.42
3:D:1138:ALA:HB3	9:D:9318:HOH:O	2.20	0.42
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.49	0.42
3:N:171:LEU:HD13	3:N:389:GLU:O	2.19	0.42
1:A:68:ILE:HG21	1:A:138:LEU:HD13	2.02	0.42
2:C:19:THR:HG22	2:C:22:GLN:HB2	2.01	0.42
3:D:422:ALA:H	3:D:427:VAL:CG1	2.31	0.42
3:D:8:VAL:O	3:D:1434:TRP:HH2	2.02	0.42
2:M:115:LEU:HB3	2:M:375:SER:OG	2.20	0.42
2:C:987:ILE:HG22	2:C:988:VAL:O	2.18	0.42
3:D:1311:LEU:CD2	3:D:1311:LEU:H	2.25	0.42
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.88	0.42
3:D:1264:GLU:CD	3:D:1425:THR:HG22	2.40	0.42
5:F:80:PRO:O	5:F:83:GLN:HB2	2.20	0.42
1:L:91:ASN:H	1:L:94:LEU:CD1	2.32	0.42
2:C:678:PRO:CG	3:D:947:ILE:HD11	2.45	0.42
2:M:1006:HIS:C	3:N:648:MET:HE2	2.40	0.42
2:C:1002:GLU:HA	2:C:1006:HIS:HE1	1.85	0.42
3:N:1493:LYS:O	3:N:1496:GLU:HG2	2.20	0.42
3:N:850:LEU:O	3:N:853:VAL:HB	2.20	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.49	0.42
2:C:480:THR:HG22	2:C:482:GLU:H	1.85	0.42
2:C:147:TYR:CE2	2:C:280:LYS:HE2	2.54	0.42
2:M:44:ILE:O	2:M:48:PHE:HB2	2.19	0.42
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.51	0.42
2:M:1012:PRO:HA	9:M:1524:HOH:O	2.19	0.42
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.19	0.42
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.50	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:742:VAL:HB	9:M:1733:HOH:O	2.17	0.42
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.01	0.42
2:M:273:GLY:HA2	2:M:276:LYS:HD3	2.00	0.42
3:D:495:ARG:O	3:D:495:ARG:HG2	2.20	0.42
3:N:1108:ARG:HG2	9:N:9360:HOH:O	2.18	0.42
5:P:241:TRP:CZ3	5:P:245:GLN:HG2	2.54	0.42
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.19	0.42
2:M:475:VAL:O	2:M:475:VAL:HG23	2.19	0.42
2:C:543:ASN:HD22	2:C:543:ASN:C	2.23	0.42
1:B:151:VAL:HB	1:B:169:ALA:HB3	2.00	0.42
3:N:186:VAL:HG23	3:N:211:VAL:CG1	2.50	0.42
3:N:78:VAL:HG12	3:N:78:VAL:O	2.20	0.42
3:N:30:GLU:N	9:N:9441:HOH:O	2.52	0.42
2:C:1054:THR:HB	2:C:1055:LEU:H	1.57	0.42
1:B:86:VAL:HG12	1:B:124:ASN:HB2	2.01	0.42
5:F:88:ILE:O	5:F:92:PRO:HG3	2.20	0.42
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.54	0.42
3:N:955:VAL:HB	3:N:1011:PHE:CE1	2.53	0.42
3:D:1139:ASP:CB	9:D:2265:HOH:O	2.62	0.42
4:O:26:ARG:HH11	4:O:29:GLN:CD	2.23	0.42
2:C:571:LEU:HD13	2:C:669:GLY:H	1.84	0.42
2:M:473:ARG:HG3	2:M:474:VAL:N	2.35	0.42
3:N:1485:GLN:HG2	3:N:1485:GLN:H	1.69	0.42
3:D:895:VAL:O	3:D:899:LEU:HG	2.19	0.42
1:K:9:PRO:HB3	1:K:25:LEU:HG	2.01	0.42
1:K:58:ILE:HD12	1:K:138:LEU:CD1	2.47	0.42
2:C:207:LEU:HD13	2:C:221:LEU:CD1	2.50	0.42
2:C:837:ASP:O	2:C:848:VAL:HG13	2.20	0.42
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.35	0.42
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.84	0.42
3:N:36:THR:O	3:N:38:LYS:N	2.53	0.42
3:N:937:TYR:HB3	3:N:941:PHE:CE1	2.55	0.42
3:N:397:LYS:HD3	9:N:9346:HOH:O	2.18	0.42
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.20	0.42
3:N:610:LYS:C	3:N:611:GLN:HG2	2.39	0.42
1:L:69:PRO:HG3	9:L:7028:HOH:O	2.18	0.42
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.55	0.42
2:M:291:ALA:O	2:M:299:LYS:HE2	2.19	0.42
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.50	0.42
1:L:219:ARG:O	1:L:223:THR:HG23	2.18	0.42
5:F:136:LEU:HD12	5:F:137:GLY:N	2.35	0.42
3:D:601:ARG:NH1	5:F:328:PHE:HD1	2.18	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1103:HIS:N	9:D:9090:HOH:O	2.53	0.42
3:D:1209:LEU:CD2	3:D:1211:MET:HB3	2.49	0.42
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.50	0.42
3:N:1209:LEU:CD2	3:N:1210:SER:H	2.29	0.42
2:M:1042:ALA:HB1	3:N:710:ARG:HD3	2.02	0.42
2:M:771:GLU:HG3	9:M:1452:HOH:O	2.19	0.42
3:D:1045:MET:CE	3:D:1045:MET:HA	2.49	0.42
3:N:809:PRO:HG2	9:N:9787:HOH:O	2.19	0.42
2:C:1104:GLU:HB3	9:C:1420:HOH:O	2.18	0.42
2:C:358:ARG:HB3	2:C:371:LYS:O	2.19	0.42
3:D:175:VAL:HG13	3:D:217:LYS:CB	2.50	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.55	0.42
2:C:221:LEU:HG	2:C:222:MET:N	2.35	0.42
2:M:1100:GLN:HB2	2:M:1100:GLN:HE21	1.59	0.42
3:D:1129:THR:HB	9:D:9663:HOH:O	2.19	0.42
4:O:25:LYS:HG2	4:O:28:GLN:HE22	1.85	0.42
2:C:496:ILE:N	2:C:496:ILE:HD12	2.34	0.42
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.34	0.42
1:K:5:LYS:HE3	9:L:6423:HOH:O	2.18	0.42
2:C:196:LEU:HB3	9:C:1668:HOH:O	2.19	0.42
2:M:242:LEU:HD22	9:M:1173:HOH:O	2.19	0.42
3:N:786:ILE:CD1	3:N:908:LYS:HB3	2.50	0.42
2:C:905:ILE:N	2:C:905:ILE:HD12	2.34	0.42
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.49	0.42
2:M:816:LYS:HB2	2:M:819:VAL:HG21	2.01	0.42
2:C:492:ASP:HB3	2:C:518:LYS:CD	2.49	0.42
3:N:775:GLY:HA3	3:N:1145:TYR:CE1	2.54	0.42
3:D:1275:SER:HB3	3:D:1325:LEU:HD13	2.01	0.42
2:C:5:ARG:HH11	2:C:5:ARG:HG2	1.85	0.42
2:C:527:GLU:HG2	2:C:527:GLU:H	1.54	0.42
3:N:1285:GLU:H	3:N:1285:GLU:CD	2.23	0.42
2:M:782:ALA:HB1	9:M:2039:HOH:O	2.19	0.42
2:M:958:THR:HG23	2:M:961:GLU:H	1.84	0.42
2:M:290:LEU:HB3	2:M:302:VAL:HG12	2.01	0.42
3:N:197:SER:CB	3:N:203:ALA:HB3	2.27	0.42
2:M:419:THR:N	9:M:2102:HOH:O	2.52	0.42
5:P:321:ILE:HG12	5:P:327:SER:O	2.20	0.42
2:M:409:ARG:HG3	2:M:454:SER:HB3	2.01	0.42
2:M:925:TYR:HE1	2:M:929:ARG:NH1	2.18	0.42
5:F:363:GLU:HA	5:F:367:MET:HG2	2.02	0.42
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.35	0.42
2:M:244:PRO:CD	2:M:245:GLY:N	2.83	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:177:VAL:HG12	1:A:178:ALA:N	2.35	0.42
2:M:397:GLU:H	2:M:633:GLN:CD	2.23	0.42
3:D:1112:CYS:HA	9:D:9558:HOH:O	2.20	0.42
3:D:122:GLU:HA	3:D:122:GLU:OE1	2.18	0.42
3:D:1489:GLN:OE1	3:D:1492:LEU:HD12	2.19	0.42
2:C:420:ARG:HG2	2:C:422:ARG:HG2	2.02	0.42
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.49	0.42
2:C:1014:SER:HB3	2:C:1017:THR:O	2.20	0.42
4:O:86:GLN:HB3	4:O:86:GLN:HE21	1.72	0.42
5:P:94:LEU:HD23	5:P:96:LEU:H	1.85	0.42
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.49	0.42
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.49	0.42
3:D:1107:VAL:O	3:D:1218:GLY:N	2.43	0.42
5:F:300:ASP:CG	5:F:301:ALA:N	2.73	0.42
3:D:169:TYR:HA	3:D:392:SER:HA	2.02	0.42
3:D:439:LEU:HD21	9:F:435:HOH:O	2.20	0.42
2:C:462:ASP:CG	2:C:463:GLU:H	2.23	0.42
1:L:147:GLY:N	1:L:171:PHE:CE1	2.87	0.42
5:P:157:GLU:HG2	9:P:3795:HOH:O	2.20	0.42
2:C:443:THR:HA	2:C:444:PRO:HD3	1.72	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.49	0.42
3:D:188:GLY:HA3	9:D:2377:HOH:O	2.19	0.42
2:C:394:PHE:HE1	9:C:2065:HOH:O	2.02	0.42
5:F:194:LEU:HD23	9:F:591:HOH:O	2.20	0.42
3:D:684:LYS:HG3	9:D:9754:HOH:O	2.18	0.42
2:C:199:VAL:HG13	2:C:235:LEU:CG	2.50	0.42
2:C:395:LYS:HE3	2:C:407:LYS:HE3	2.02	0.42
1:B:38:ASN:HD22	1:B:38:ASN:HA	1.62	0.42
3:N:152:LEU:CD2	3:N:152:LEU:H	2.24	0.42
3:D:395:VAL:HG12	9:D:9458:HOH:O	2.19	0.42
3:D:397:LYS:HE2	9:D:2321:HOH:O	2.20	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:H	1.83	0.42
3:N:703:ASN:ND2	3:N:704:ARG:N	2.66	0.42
2:C:674:VAL:O	2:C:989:VAL:HA	2.19	0.42
3:D:66:GLN:O	3:D:69:GLU:HB3	2.20	0.42
1:B:208:LEU:CD1	1:B:212:ASN:HD21	2.33	0.42
3:D:1059:SER:HB2	9:D:9027:HOH:O	2.20	0.42
2:C:611:ILE:HD11	2:C:641:PRO:CG	2.50	0.42
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.48	0.42
3:N:441:ARG:HG3	9:N:2261:HOH:O	2.19	0.42
3:D:792:ILE:O	3:D:878:GLY:HA3	2.20	0.42
3:N:1156:LEU:HD11	3:N:1176:LYS:HD2	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:210:ALA:HA	1:K:213:GLN:HE21	1.83	0.42
2:M:157:ARG:HG2	2:M:157:ARG:NH1	2.33	0.42
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.19	0.42
2:C:420:ARG:HG2	2:C:422:ARG:CG	2.50	0.42
3:D:178:LEU:CD2	3:D:199:LEU:H	2.32	0.42
5:F:378:GLY:HA2	9:F:832:HOH:O	2.20	0.42
2:M:48:PHE:HD1	9:M:1409:HOH:O	2.03	0.42
3:D:30:GLU:HG3	3:D:41:ARG:HG2	2.00	0.42
1:L:101:LEU:HD21	1:L:113:ASP:HB3	2.00	0.42
9:M:1524:HOH:O	5:P:340:SER:HB2	2.18	0.42
1:A:96:THR:N	9:A:513:HOH:O	2.53	0.42
1:A:180:GLN:HE21	1:A:180:GLN:HB3	1.61	0.42
1:L:73:GLU:HB3	1:L:77:GLU:HG3	2.02	0.42
4:E:37:ASN:HA	4:E:93:TYR:CE2	2.54	0.42
2:C:127:PHE:HA	9:C:1619:HOH:O	2.19	0.42
3:N:196:VAL:HG21	9:N:2241:HOH:O	2.19	0.42
3:D:249:TYR:HA	9:D:2084:HOH:O	2.18	0.42
1:L:211:LEU:O	1:L:214:ALA:HB3	2.19	0.42
2:C:447:ALA:O	2:C:449:ILE:N	2.53	0.42
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.01	0.42
2:M:776:SER:HB3	9:M:1271:HOH:O	2.19	0.42
3:N:186:VAL:HG11	3:N:213:VAL:HB	2.02	0.42
3:N:81:THR:HG22	3:N:82:LYS:H	1.85	0.42
1:A:26:GLU:HG3	1:A:184:THR:HG21	2.02	0.42
2:M:423:ALA:HB3	9:M:1712:HOH:O	2.18	0.42
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.85	0.42
2:C:56:GLU:HB3	9:C:1339:HOH:O	2.19	0.42
5:P:260:ILE:HG23	5:P:264:MET:CB	2.46	0.42
3:N:1065:LEU:HD11	3:N:1069:GLU:C	2.41	0.42
3:N:1065:LEU:HD11	3:N:1070:TYR:N	2.35	0.42
2:C:838:LYS:HE2	2:C:997:LEU:HB3	2.01	0.42
2:C:78:PHE:HB3	2:C:79:PRO:CD	2.50	0.42
3:N:1305:LEU:HD22	3:N:1309:ALA:CB	2.50	0.42
3:N:1084:THR:HG23	3:N:1087:ARG:NH1	2.35	0.42
3:N:1462:LEU:O	3:N:1466:VAL:HB	2.20	0.42
2:M:252:LYS:HB3	2:M:298:PHE:HZ	1.85	0.42
5:F:262:VAL:HG23	9:F:670:HOH:O	2.19	0.42
2:C:86:LYS:HG3	2:C:813:VAL:HG12	2.02	0.42
2:M:1109:VAL:HG12	2:M:1110:ASP:N	2.35	0.42
3:D:565:ILE:HD12	3:D:565:ILE:N	2.35	0.42
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.20	0.42
4:O:62:THR:HA	4:O:65:MET:CE	2.50	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1128:VAL:O	3:N:1129:THR:C	2.58	0.42
3:N:1004:THR:HG22	9:N:9321:HOH:O	2.20	0.42
2:C:191:PHE:CE2	2:C:196:LEU:HD12	2.55	0.42
2:C:1051:GLU:OE2	3:D:751:LEU:HB2	2.20	0.42
3:D:34:TYR:N	3:D:34:TYR:HD2	2.18	0.42
3:N:759:ALA:HA	3:N:763:MET:HB3	2.02	0.42
2:M:289:THR:O	2:M:291:ALA:N	2.53	0.41
2:M:626:ARG:HB2	2:M:626:ARG:HH11	1.84	0.41
2:C:146:VAL:HG23	9:C:1227:HOH:O	2.19	0.41
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.49	0.41
2:M:537:LYS:CG	2:M:905:ILE:HD11	2.50	0.41
3:N:112:ILE:O	3:N:116:LEU:HB2	2.20	0.41
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.20	0.41
3:D:1196:THR:HG22	9:D:9004:HOH:O	2.20	0.41
3:D:1105:ILE:HD11	3:D:1374:GLN:CD	2.40	0.41
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.48	0.41
3:D:131:LYS:HE3	5:F:83:GLN:NE2	2.34	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:HD23	2.02	0.41
1:L:13:VAL:HG11	1:L:208:LEU:HD11	2.02	0.41
3:N:1165:TYR:HD1	9:N:2038:HOH:O	2.02	0.41
4:O:45:ARG:HB2	4:O:46:PRO:HD2	2.01	0.41
2:C:99:GLN:HB2	9:C:1802:HOH:O	2.18	0.41
2:C:864:GLY:O	2:C:866:PRO:HD3	2.19	0.41
2:M:783:ARG:HD3	9:M:1522:HOH:O	2.19	0.41
1:L:111:ALA:HB3	1:L:124:ASN:O	2.20	0.41
1:K:218:LEU:HG	1:L:222:LEU:HD11	2.02	0.41
3:N:1155:VAL:HG11	3:N:1177:ALA:CB	2.50	0.41
2:C:428:ARG:HD3	2:C:450:GLY:N	2.31	0.41
2:M:503:LEU:HD13	2:M:507:ARG:O	2.20	0.41
3:D:527:MET:CE	5:F:258:ILE:HD11	2.50	0.41
2:C:198:ARG:CZ	2:C:203:ASP:HA	2.50	0.41
1:K:79:ILE:HA	1:K:82:LEU:HD12	2.02	0.41
5:P:85:LEU:HD22	9:P:4990:HOH:O	2.20	0.41
2:M:1103:ASP:HB3	2:M:1105:LYS:O	2.20	0.41
3:N:1122:LEU:HD12	9:N:9340:HOH:O	2.19	0.41
5:P:417:LYS:HD3	9:P:5784:HOH:O	2.20	0.41
3:D:28:LYS:O	3:D:43:GLY:HA2	2.20	0.41
3:D:29:PRO:CB	3:D:545:ARG:HG2	2.49	0.41
1:K:140:MET:HG3	1:K:142:VAL:HG12	2.02	0.41
2:C:129:ILE:HG12	2:C:386:PHE:HB3	2.02	0.41
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.21	0.41
3:D:868:TYR:HB3	3:D:873:LEU:HD12	2.01	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:88:ARG:NH1	1:L:88:ARG:HG2	2.34	0.41
3:N:892:ASP:HB3	3:N:895:VAL:HG23	2.02	0.41
2:M:100:LEU:HD12	2:M:101:ILE:O	2.20	0.41
1:A:227:ASN:HD22	1:A:227:ASN:N	2.18	0.41
4:O:40:LEU:CD2	4:O:67:GLU:HA	2.49	0.41
2:C:357:GLU:HB2	9:C:1268:HOH:O	2.20	0.41
2:M:497:ALA:HA	2:M:515:ALA:HA	2.01	0.41
3:N:1269:LYS:HD3	3:N:1269:LYS:C	2.40	0.41
2:M:393:GLN:HB2	2:M:393:GLN:HE21	1.69	0.41
3:D:613:ARG:HA	3:D:613:ARG:HD3	1.78	0.41
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.54	0.41
5:F:122:LEU:HD21	9:F:541:HOH:O	2.19	0.41
2:M:690:ILE:HD12	2:M:833:LEU:HD23	2.02	0.41
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.50	0.41
3:D:598:ARG:CG	3:D:598:ARG:HH11	2.28	0.41
3:D:1463:LYS:HD3	3:D:1463:LYS:HA	1.97	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.02	0.41
2:C:244:PRO:HG2	2:C:246:ASP:CG	2.41	0.41
2:M:717:LEU:HB2	2:M:761:PHE:HB2	2.01	0.41
3:N:704:ARG:CZ	3:N:737:ASN:O	2.69	0.41
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.84	0.41
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.50	0.41
1:B:117:VAL:HB	9:B:441:HOH:O	2.20	0.41
2:M:411:SER:CA	2:M:452:ILE:HG23	2.46	0.41
2:C:546:LEU:HB2	2:C:565:GLN:HE22	1.85	0.41
2:C:945:ARG:HG3	2:C:946:ARG:H	1.84	0.41
1:B:219:ARG:O	1:B:223:THR:HG23	2.20	0.41
2:M:557:ARG:NH1	2:M:879:ARG:HG2	2.35	0.41
2:M:525:SER:OG	2:M:528:GLU:HG2	2.20	0.41
3:N:73:CYS:HB3	3:N:76:CYS:O	2.20	0.41
2:C:91:GLN:HA	2:C:119:PRO:HA	2.02	0.41
2:C:86:LYS:HG2	2:C:813:VAL:HG12	2.01	0.41
5:P:202:TYR:OH	5:P:244:ARG:HD2	2.19	0.41
1:B:68:ILE:HD12	1:B:71:VAL:HG21	2.02	0.41
5:P:293:GLU:HB3	9:P:4691:HOH:O	2.20	0.41
2:C:140:ILE:HD12	2:C:140:ILE:N	2.35	0.41
1:B:75:VAL:O	1:B:79:ILE:HG23	2.19	0.41
3:D:1286:THR:HG21	9:D:9432:HOH:O	2.20	0.41
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.40	0.41
2:M:256:TYR:HA	9:M:2103:HOH:O	2.19	0.41
3:D:729:HIS:ND1	3:D:731:LEU:N	2.66	0.41
2:C:525:SER:OG	2:C:528:GLU:HG3	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:205:GLU:OE1	2:M:206:THR:N	2.53	0.41
2:M:598:GLU:O	2:M:651:LYS:HG3	2.20	0.41
2:M:663:ASN:HD22	2:M:663:ASN:HA	1.53	0.41
3:N:74:GLU:HG3	9:N:9879:HOH:O	2.19	0.41
3:D:490:ALA:HA	9:D:9772:HOH:O	2.20	0.41
1:K:100:LEU:O	1:K:115:LEU:HG	2.20	0.41
2:C:705:ILE:HA	2:C:827:VAL:O	2.20	0.41
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.35	0.41
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.55	0.41
3:D:124:GLU:HG2	3:D:128:TYR:CZ	2.55	0.41
2:M:695:LEU:HD21	2:M:833:LEU:HB3	2.02	0.41
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.22	0.41
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.41
3:D:90:MET:HE1	3:D:518:PRO:HB3	2.02	0.41
1:B:194:LYS:HZ2	1:B:194:LYS:HB2	1.84	0.41
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.20	0.41
2:M:22:GLN:O	2:M:121:MET:HE1	2.20	0.41
2:C:687:ALA:C	2:C:688:ILE:HD12	2.40	0.41
2:C:858:MET:SD	2:C:867:VAL:O	2.78	0.41
1:L:26:GLU:CD	1:L:194:LYS:HE3	2.40	0.41
4:O:45:ARG:HD2	4:O:47:LYS:CE	2.50	0.41
2:C:36:PRO:HB2	2:C:70:GLU:OE2	2.20	0.41
1:B:24:VAL:HG13	1:B:196:THR:CG2	2.45	0.41
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.55	0.41
2:C:163:ILE:HB	2:C:171:TRP:CZ2	2.56	0.41
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.55	0.41
2:C:831:ARG:NH1	9:C:2048:HOH:O	2.52	0.41
2:C:584:GLU:H	2:C:584:GLU:CD	2.23	0.41
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.49	0.41
1:A:124:ASN:OD1	1:A:127:LEU:HB3	2.20	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.20	0.41
2:C:722:ILE:O	2:C:722:ILE:HD13	2.20	0.41
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.50	0.41
2:C:147:TYR:HD1	9:C:1799:HOH:O	2.01	0.41
3:D:178:LEU:CD1	3:D:200:ASP:H	2.34	0.41
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.21	0.41
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.47	0.41
2:M:1034:GLU:HB3	3:N:618:LEU:O	2.19	0.41
2:M:1105:LYS:HB2	2:M:1107:ASN:HD22	1.85	0.41
2:M:1104:GLU:HA	3:N:6:ARG:HH11	1.86	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.01	0.41
2:M:102:HIS:HB3	2:M:104:ASP:O	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:708:LEU:HD23	3:N:708:LEU:HA	1.85	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.88	0.41
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.20	0.41
1:A:149:GLY:O	1:A:171:PHE:HB2	2.20	0.41
5:F:410:TYR:O	5:F:413:SER:HB2	2.19	0.41
3:D:689:ASP:O	3:D:693:GLU:HB2	2.20	0.41
5:P:234:LYS:HD3	5:P:236:SER:HB3	2.02	0.41
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.20	0.41
3:D:124:GLU:HG2	3:D:128:TYR:CE1	2.56	0.41
3:N:450:TYR:HD1	3:N:450:TYR:HA	1.67	0.41
2:C:1115:LEU:CG	3:D:85:VAL:HG13	2.50	0.41
2:M:691:SER:CB	2:M:858:MET:SD	3.09	0.41
2:C:305:PRO:HG2	9:C:1198:HOH:O	2.19	0.41
3:N:115:LEU:HD22	3:N:502:PHE:CE1	2.55	0.41
3:N:119:SER:H	3:N:123:LEU:CB	2.30	0.41
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.55	0.41
3:N:525:ARG:N	3:N:526:PRO:HD3	2.35	0.41
3:D:516:ALA:O	3:D:518:PRO:HD3	2.21	0.41
3:N:1290:LEU:HD11	3:N:1311:LEU:HD22	2.02	0.41
2:C:598:GLU:HG3	2:C:623:TYR:OH	2.21	0.41
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.86	0.41
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.20	0.41
3:N:1476:THR:C	3:N:1478:SER:H	2.24	0.41
1:L:18:ARG:O	1:L:207:PRO:HD3	2.20	0.41
1:K:18:ARG:HH11	1:K:123:MET:CE	2.33	0.41
4:O:41:GLU:HB3	9:O:5925:HOH:O	2.19	0.41
3:N:679:ARG:HH21	3:N:681:ARG:HE	1.68	0.41
3:D:65:ARG:N	3:D:68:PHE:HZ	2.18	0.41
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.20	0.41
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.35	0.41
3:D:781:PRO:HG2	3:D:911:LEU:HD23	2.03	0.41
3:D:475:LYS:HA	3:D:478:LEU:HG	2.01	0.41
2:M:86:LYS:CE	2:M:813:VAL:HG12	2.51	0.41
2:C:889:HIS:CE1	3:D:951:ILE:H	2.36	0.41
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.41
3:D:150:ARG:HH11	3:D:150:ARG:CG	2.30	0.41
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.36	0.41
2:M:748:GLU:CA	2:M:799:ILE:HG22	2.50	0.41
5:F:396:ARG:NH1	9:F:512:HOH:O	2.53	0.41
1:B:99:LEU:HD12	1:B:114:PHE:CD2	2.54	0.41
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.01	0.41
3:N:1048:PRO:O	3:N:1079:LYS:HE2	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.49	0.41
3:N:462:GLN:CA	3:N:513:ILE:HD13	2.49	0.41
3:D:1130:ARG:CB	3:D:1130:ARG:HH11	2.33	0.41
2:M:654:LEU:HD21	2:M:657:ASP:OD2	2.21	0.41
5:P:392:VAL:CG1	5:P:396:ARG:HG3	2.50	0.41
2:M:352:ALA:O	2:M:355:VAL:HG12	2.20	0.41
2:M:890:LEU:HA	2:M:914:ILE:HD13	2.01	0.41
3:D:796:ARG:HA	3:D:797:LYS:HE2	2.02	0.41
3:N:674:ARG:HB3	9:N:2271:HOH:O	2.20	0.41
5:F:134:LYS:NZ	9:F:799:HOH:O	2.53	0.41
2:C:952:LEU:HD12	2:C:969:GLN:OE1	2.19	0.41
3:D:799:LYS:HB3	3:D:826:PRO:HG2	2.03	0.41
1:K:181:VAL:HG11	1:K:193:ASP:OD2	2.20	0.41
5:F:208:SER:HB3	9:F:450:HOH:O	2.19	0.41
2:C:277:ALA:HB1	9:C:1539:HOH:O	2.21	0.41
3:N:717:GLN:N	3:N:717:GLN:HE21	2.18	0.41
1:L:62:LEU:HD12	1:L:62:LEU:N	2.35	0.41
2:C:878:SER:HA	9:D:9975:HOH:O	2.20	0.41
2:C:45:GLN:HG2	9:C:2162:HOH:O	2.20	0.41
4:E:70:THR:HG22	4:E:71:GLY:N	2.35	0.41
2:C:456:ALA:HB1	2:C:538:GLN:O	2.20	0.41
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.64	0.41
3:D:1236:LEU:HD11	3:D:1356:TYR:CE1	2.56	0.41
2:C:911:GLU:O	2:C:914:ILE:HG22	2.21	0.41
3:D:793:THR:O	3:D:879:ARG:NH1	2.50	0.41
3:D:661:MET:HA	3:D:666:ILE:HD12	2.02	0.41
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.21	0.41
4:E:15:SER:O	4:E:18:ARG:HB3	2.21	0.41
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.55	0.41
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	2.03	0.41
2:C:1060:ILE:HD12	2:C:1063:ARG:CZ	2.50	0.41
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.20	0.41
2:M:442:GLU:HB3	2:M:453:THR:OG1	2.20	0.41
3:D:209:ARG:HB2	3:D:395:VAL:O	2.20	0.41
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.20	0.41
1:K:119:ASP:HA	9:K:4192:HOH:O	2.20	0.41
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.20	0.41
3:N:1346:ARG:HB2	3:N:1346:ARG:NH1	2.36	0.41
3:N:1346:ARG:HG2	9:N:2202:HOH:O	2.19	0.41
2:C:611:ILE:HD13	2:C:625:LEU:HD11	2.02	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.72	0.41
3:N:639:LEU:HD21	3:N:931:LEU:HD13	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.87	0.41
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.66	0.41
3:N:484:PRO:O	3:N:489:ARG:HD2	2.20	0.41
1:A:111:ALA:HB3	1:A:124:ASN:O	2.20	0.41
3:D:6:ARG:HH11	3:D:6:ARG:HB2	1.85	0.41
1:B:123:MET:O	1:B:125:PRO:HD3	2.20	0.41
2:M:577:PRO:HA	2:M:993:PHE:CD2	2.55	0.41
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.21	0.41
2:C:129:ILE:N	9:C:1435:HOH:O	2.54	0.41
2:C:129:ILE:HG22	2:C:130:ASN:N	2.34	0.41
3:D:1217:ILE:HD12	3:D:1480:PHE:CE2	2.53	0.41
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.03	0.41
3:D:811:GLU:HG3	9:D:9257:HOH:O	2.20	0.41
5:P:108:GLU:OE1	5:P:108:GLU:HA	2.19	0.41
5:P:328:PHE:HA	5:P:328:PHE:HD2	1.73	0.41
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.21	0.41
2:C:591:SER:HB2	9:C:2055:HOH:O	2.20	0.41
1:K:2:LEU:O	1:K:6:LEU:HB3	2.21	0.41
3:D:852:ALA:HB1	3:D:857:ILE:HB	2.02	0.41
2:M:1081:VAL:HA	9:N:9064:HOH:O	2.20	0.41
2:M:254:VAL:HA	2:M:257:VAL:HG23	2.02	0.41
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.41
2:C:460:ARG:HD2	2:C:485:TYR:CE2	2.56	0.41
3:D:197:SER:HB2	3:D:205:TYR:CZ	2.56	0.41
2:M:158:TYR:CD1	2:M:313:LEU:HD21	2.55	0.41
3:N:702:LEU:HD23	3:N:745:MET:CE	2.50	0.41
2:C:19:THR:HG22	2:C:19:THR:O	2.21	0.41
3:D:1356:TYR:CD1	3:D:1356:TYR:N	2.88	0.41
3:D:1447:LEU:O	3:D:1448:THR:C	2.59	0.41
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.47	0.41
3:N:573:MET:SD	5:P:210:LEU:HD22	2.61	0.41
5:P:209:PHE:O	5:P:213:ILE:HG13	2.20	0.41
2:M:425:PHE:HA	9:M:1180:HOH:O	2.18	0.41
3:N:43:GLY:HA2	9:N:9381:HOH:O	2.20	0.41
3:D:1310:ARG:HG3	3:D:1327:ARG:CZ	2.51	0.41
2:C:1012:PRO:HD3	2:C:1026:GLN:HG2	2.03	0.41
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.45	0.41
2:C:43:GLY:O	2:C:46:ALA:HB3	2.21	0.41
3:D:1498:ALA:HB2	4:E:88:GLU:OE1	2.21	0.41
5:P:306:GLU:O	5:P:310:ILE:HG13	2.21	0.41
2:M:677:MET:HG2	2:M:987:ILE:HG21	2.02	0.41
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:806:PHE:O	3:N:807:ALA:C	2.58	0.41
3:D:1168:MET:HE3	3:D:1171:VAL:HB	2.02	0.41
3:D:65:ARG:N	3:D:68:PHE:CZ	2.87	0.41
2:M:31:GLN:HB2	9:M:2110:HOH:O	2.20	0.41
3:N:853:VAL:CG2	3:N:858:VAL:HG23	2.51	0.41
1:A:211:LEU:O	1:A:215:VAL:HG13	2.20	0.41
5:P:151:LEU:HB3	5:P:155:THR:H	1.86	0.41
2:M:580:MET:SD	2:M:584:GLU:HG3	2.60	0.41
3:D:838:ARG:HH11	3:D:874:GLU:CB	2.30	0.41
3:N:584:ASN:HB3	9:N:9185:HOH:O	2.19	0.41
2:C:860:HIS:CE1	2:C:975:TYR:HB2	2.56	0.41
3:N:799:LYS:N	9:N:9025:HOH:O	2.53	0.41
2:M:615:TYR:HB2	2:M:617:ASP:OD1	2.20	0.41
1:B:173:PRO:HB2	1:B:205:VAL:HG22	2.03	0.41
3:D:1164:ARG:HH11	3:D:1164:ARG:HG3	1.85	0.41
3:N:789:LEU:O	3:N:792:ILE:HG23	2.21	0.41
1:L:150:TYR:HE2	3:N:857:ILE:HG13	1.85	0.41
1:L:212:ASN:HA	1:L:212:ASN:HD22	1.70	0.41
2:M:203:ASP:HB2	9:M:1152:HOH:O	2.20	0.41
3:N:1341:PRO:O	3:N:1344:VAL:N	2.54	0.41
3:N:1276:GLU:HG3	3:N:1303:TYR:OH	2.20	0.41
1:B:72:LYS:HE2	1:B:131:THR:OG1	2.20	0.41
3:D:212:ARG:NH2	9:D:2090:HOH:O	2.54	0.41
3:N:568:ARG:O	3:N:569:ASN:C	2.59	0.41
2:M:176:VAL:HB	9:M:1185:HOH:O	2.20	0.41
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.34	0.41
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	2.02	0.41
5:P:370:LYS:HB3	5:P:370:LYS:NZ	2.36	0.41
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.58	0.41
5:F:85:LEU:HD22	5:F:193:ARG:HD3	2.02	0.41
2:M:930:LYS:HA	9:M:1237:HOH:O	2.20	0.41
3:N:1311:LEU:HD12	3:N:1313:VAL:O	2.19	0.41
1:B:67:THR:HB	1:B:74:ASP:OD1	2.20	0.41
5:P:171:LYS:HG3	5:P:175:HIS:NE2	2.35	0.41
3:D:1353:GLN:HE21	3:D:1353:GLN:HB3	1.49	0.41
5:P:140:ARG:O	5:P:144:ILE:HG13	2.21	0.41
3:N:535:PHE:N	9:P:6169:HOH:O	2.52	0.41
2:C:70:GLU:O	2:C:97:ARG:HG3	2.20	0.41
3:N:1299:PHE:HD2	9:N:9049:HOH:O	2.03	0.41
2:C:569:VAL:HG23	2:C:635:THR:HG22	2.02	0.41
2:C:874:LEU:O	3:D:1029:ARG:HD2	2.20	0.41
2:C:882:LEU:HD12	3:D:1038:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.50	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CE	2.50	0.41
3:N:1489:GLN:HB3	9:N:9105:HOH:O	2.20	0.41
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.56	0.41
2:M:803:THR:N	9:M:1993:HOH:O	2.53	0.41
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.51	0.41
4:O:72:ARG:NH2	9:O:5523:HOH:O	2.54	0.41
2:C:861:LEU:HD23	2:C:862:PRO:N	2.35	0.41
2:C:640:ARG:CB	2:C:642:ARG:HH12	2.33	0.41
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.35	0.41
2:M:352:ALA:C	2:M:355:VAL:HG12	2.41	0.41
1:A:101:LEU:HB2	1:A:114:PHE:CD2	2.56	0.41
3:N:852:ALA:HB1	3:N:857:ILE:HB	2.03	0.41
3:N:219:GLU:CB	9:N:9640:HOH:O	2.69	0.41
4:O:8:LYS:NZ	9:O:6477:HOH:O	2.52	0.41
2:C:189:ARG:HD2	9:C:1870:HOH:O	2.19	0.41
3:D:1303:TYR:HD1	3:D:1325:LEU:HD22	1.85	0.41
2:M:59:LYS:HD2	9:M:1438:HOH:O	2.19	0.41
1:L:2:LEU:HD12	1:L:3:ASP:H	1.84	0.41
2:M:305:PRO:CB	2:M:308:ARG:HH21	2.33	0.41
3:N:178:LEU:HA	3:N:181:ASP:OD2	2.21	0.41
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.21	0.41
5:P:218:GLN:HB3	9:P:6496:HOH:O	2.19	0.41
3:D:83:SER:HA	9:D:9087:HOH:O	2.20	0.41
3:N:1195:GLN:HG3	9:N:2044:HOH:O	2.21	0.41
2:C:66:LEU:CD2	2:C:372:LEU:HD23	2.41	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.21	0.41
2:M:897:LEU:CD2	2:M:920:GLN:HE21	2.27	0.41
3:D:1491:THR:O	3:D:1491:THR:HG22	2.21	0.41
3:N:448:GLU:HG2	9:N:9364:HOH:O	2.19	0.41
5:F:163:LEU:HD13	5:F:174:LEU:HD21	2.03	0.41
1:K:88:ARG:HB3	9:K:4125:HOH:O	2.19	0.41
4:O:26:ARG:CZ	4:O:73:LEU:HD21	2.50	0.41
5:F:256:ARG:NH2	5:F:310:ILE:O	2.53	0.41
2:M:713:ARG:HB2	9:M:1832:HOH:O	2.19	0.41
9:C:1126:HOH:O	3:D:943:THR:HG21	2.20	0.41
2:C:831:ARG:HA	9:C:1793:HOH:O	2.20	0.41
3:D:629:SER:CA	9:D:9834:HOH:O	2.68	0.41
1:K:215:VAL:HG12	1:L:222:LEU:HD22	2.03	0.41
2:C:280:LYS:HG2	9:C:1148:HOH:O	2.21	0.41
3:D:982:PHE:CD1	3:D:982:PHE:N	2.88	0.41
2:C:811:PRO:HD2	2:C:813:VAL:HG13	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:30:LEU:HD12	2:M:30:LEU:O	2.20	0.41
2:M:999:HIS:HD2	9:M:1959:HOH:O	2.03	0.41
3:N:60:CYS:HB2	9:N:9577:HOH:O	2.21	0.41
1:L:56:VAL:HG13	9:L:3859:HOH:O	2.20	0.41
3:N:1004:THR:HG21	9:N:9020:HOH:O	2.21	0.41
3:N:601:ARG:HG2	3:N:606:ILE:HD13	2.01	0.41
4:E:51:LEU:HB3	9:E:196:HOH:O	2.20	0.41
5:P:278:LEU:O	5:P:282:LEU:HD12	2.21	0.41
5:F:423:ASP:HB2	9:F:809:HOH:O	2.20	0.41
3:N:39:PRO:HD2	9:N:9418:HOH:O	2.19	0.41
2:C:8:ARG:HH11	2:C:10:ARG:HH21	1.67	0.41
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.53	0.41
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.51	0.41
3:N:1328:GLY:HA3	9:N:9396:HOH:O	2.20	0.41
1:A:151:VAL:HB	1:A:169:ALA:HB3	2.02	0.41
3:N:893:GLU:O	3:N:896:ALA:HB3	2.21	0.41
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.19	0.41
2:M:164:PRO:HG2	9:M:1133:HOH:O	2.21	0.41
2:M:264:PRO:HD2	9:M:1477:HOH:O	2.19	0.41
2:C:708:TYR:N	2:C:708:TYR:CD1	2.87	0.41
3:N:89:ARG:O	3:N:521:PRO:HG3	2.20	0.41
2:M:626:ARG:CB	2:M:626:ARG:HH11	2.34	0.41
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.35	0.41
3:D:465:LEU:CD1	3:D:513:ILE:HD11	2.51	0.41
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.86	0.41
3:N:566:ILE:CG1	5:P:217:ASN:HD22	2.34	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.72	0.41
2:M:139:GLN:HB3	2:M:334:ARG:HD3	2.03	0.41
2:M:578:VAL:HG22	2:M:671:ASN:HD21	1.86	0.41
2:C:438:ILE:HD11	2:C:467:ILE:HD12	2.02	0.41
2:C:437:ARG:C	2:C:438:ILE:HD12	2.42	0.41
5:F:123:ASP:H	5:F:126:LEU:HD22	1.85	0.41
5:F:117:SER:CB	5:F:124:PRO:HG3	2.51	0.41
3:D:661:MET:HE1	3:D:677:LEU:CD1	2.37	0.41
2:M:537:LYS:CB	2:M:545:ASN:HD21	2.33	0.41
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.21	0.41
2:M:565:GLN:HG2	2:M:995:MET:HE1	2.02	0.41
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	2.02	0.41
3:N:116:LEU:HB3	3:N:118:LEU:HG	2.03	0.41
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.36	0.41
1:B:81:ASN:O	1:B:84:GLU:HB3	2.20	0.41
2:C:1036:GLU:HG2	3:D:703:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:385:GLU:HA	9:F:553:HOH:O	2.21	0.41
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.22	0.41
3:D:179:VAL:HG13	3:D:389:GLU:HG3	2.03	0.41
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.51	0.41
2:M:943:VAL:HG11	2:M:973:VAL:CG2	2.51	0.41
3:N:133:ILE:HD12	3:N:454:ALA:HB1	2.02	0.41
2:M:771:GLU:O	2:M:775:ARG:HG2	2.21	0.41
3:D:1380:GLU:HB2	3:D:1420:LEU:HD23	2.03	0.41
2:C:1109:VAL:HG23	3:D:3:LYS:CG	2.43	0.41
2:C:186:VAL:HG23	2:C:187:ASN:N	2.27	0.41
2:M:83:CYS:SG	2:M:88:LEU:HD23	2.61	0.41
3:N:482:LYS:HG2	9:N:9544:HOH:O	2.21	0.41
1:A:127:LEU:HD11	1:A:129:ILE:HD13	2.03	0.41
3:D:122:GLU:O	3:D:126:VAL:HG23	2.21	0.41
2:C:474:VAL:HG13	2:C:530:GLU:O	2.21	0.41
4:E:54:LEU:HG	4:E:58:PRO:HD2	2.03	0.41
3:N:676:MET:HG3	9:N:9565:HOH:O	2.20	0.41
2:M:1008:ARG:NH1	2:M:1020:PRO:HB3	2.35	0.41
9:M:1261:HOH:O	3:N:1079:LYS:HG3	2.21	0.41
4:O:72:ARG:HG2	4:O:72:ARG:HH11	1.85	0.41
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.41
3:N:1398:TRP:HZ3	3:N:1401:GLU:OE2	2.04	0.41
2:C:586:ARG:HG2	9:C:1254:HOH:O	2.21	0.41
3:D:824:ASN:HD22	3:D:824:ASN:HA	1.63	0.41
5:F:291:ILE:HG23	5:F:292:ALA:N	2.36	0.41
2:C:769:PRO:HG3	9:F:775:HOH:O	2.20	0.41
3:N:129:PHE:HB3	3:N:587:ARG:NH2	2.36	0.41
2:C:212:GLY:O	2:C:215:GLY:O	2.38	0.41
3:D:838:ARG:HE	3:D:838:ARG:HB2	1.62	0.41
2:C:267:TYR:HB2	2:C:272:ALA:HB1	2.03	0.41
3:N:462:GLN:CB	3:N:513:ILE:HD13	2.51	0.41
3:N:462:GLN:CG	3:N:513:ILE:HD13	2.50	0.41
2:C:834:GLN:HE21	2:C:834:GLN:HB2	1.66	0.41
3:D:517:VAL:N	9:D:9427:HOH:O	2.53	0.41
2:M:400:PRO:O	2:M:401:LEU:C	2.59	0.41
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.83	0.41
3:N:93:ILE:HD13	3:N:548:ILE:HD11	2.03	0.41
3:N:1237:THR:HG22	3:N:1238:MET:N	2.35	0.41
2:C:607:ASP:HB3	2:C:609:ASN:H	1.84	0.41
3:D:844:ALA:O	3:D:867:ARG:HD2	2.20	0.41
3:N:780:LYS:HD2	9:N:9812:HOH:O	2.20	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:816:LYS:O	2:M:819:VAL:HB	2.21	0.41
1:K:37:GLY:HA3	1:K:179:PHE:CD1	2.56	0.41
1:L:2:LEU:HD13	1:L:3:ASP:CG	2.40	0.41
3:D:159:ARG:NH1	3:D:159:ARG:HB2	2.35	0.41
3:N:924:MET:N	4:O:7:ASP:OD2	2.54	0.41
2:M:1075:ASP:OD1	3:N:753:SER:HB2	2.21	0.41
3:D:74:GLU:HB3	9:D:9568:HOH:O	2.21	0.41
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.55	0.41
1:B:164:ALA:HB3	9:B:393:HOH:O	2.21	0.41
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.56	0.41
2:M:441:VAL:O	2:M:559:LEU:HD12	2.20	0.41
3:N:924:MET:HB2	4:O:7:ASP:OD1	2.21	0.41
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.55	0.41
3:N:1012:GLU:HG3	9:N:9072:HOH:O	2.21	0.41
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.41
3:D:1503:VAL:HA	9:D:2114:HOH:O	2.21	0.41
5:P:79:ASP:HB3	5:P:80:PRO:HD2	2.03	0.41
3:N:572:ARG:HH11	5:P:80:PRO:HD3	1.83	0.41
1:K:98:THR:N	9:K:3519:HOH:O	2.54	0.41
3:N:177:ALA:HB1	3:N:199:LEU:HD22	2.03	0.41
3:N:214:GLU:HB3	9:N:9687:HOH:O	2.21	0.41
2:M:141:HIS:O	2:M:332:ARG:N	2.40	0.41
2:C:328:LEU:C	2:C:330:ASN:H	2.24	0.41
5:F:123:ASP:HB3	5:F:125:ASP:OD1	2.21	0.41
3:D:658:LEU:O	3:D:661:MET:HB2	2.21	0.41
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.56	0.41
3:N:1112:CYS:HB2	3:N:1195:GLN:NE2	2.36	0.41
2:M:546:LEU:HA	2:M:581:THR:OG1	2.20	0.41
2:M:571:LEU:CD2	2:M:669:GLY:HA2	2.50	0.41
2:M:571:LEU:HD12	2:M:701:THR:N	2.36	0.41
2:C:302:VAL:C	2:C:305:PRO:HD2	2.42	0.41
3:D:1326:THR:CA	9:D:9040:HOH:O	2.69	0.41
2:C:1067:TYR:CE2	5:F:345:ALA:HB2	2.56	0.41
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.21	0.41
3:D:1045:MET:O	3:D:1053:PHE:HD1	2.03	0.41
1:L:143:ARG:HH11	1:L:158:ILE:CG2	2.32	0.41
1:B:13:VAL:HG12	1:B:14:ARG:N	2.35	0.41
3:D:1420:LEU:HD13	3:D:1421:LEU:N	2.36	0.41
3:N:1066:THR:HG22	3:N:1069:GLU:CG	2.50	0.41
2:C:269:LEU:HD11	9:C:1386:HOH:O	2.19	0.41
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.56	0.41
3:D:126:VAL:O	3:D:132:TYR:CD1	2.73	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:515:ALA:C	2:C:516:ARG:HG2	2.42	0.41
3:D:696:HIS:HB3	9:D:9044:HOH:O	2.21	0.41
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.21	0.41
2:C:358:ARG:HH12	2:C:374:ASN:CB	2.34	0.41
3:D:93:ILE:HG22	3:D:551:ASN:ND2	2.36	0.41
1:A:76:VAL:HA	1:A:79:ILE:CG1	2.50	0.41
2:M:1101:THR:HB	3:N:5:VAL:HG13	2.01	0.41
3:D:47:GLU:OE1	3:D:53:ILE:HG22	2.21	0.41
3:D:95:LEU:CD2	3:D:574:LEU:HD11	2.51	0.41
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.56	0.41
3:N:827:ILE:HG23	3:N:837:GLY:CA	2.51	0.41
3:N:196:VAL:HG13	3:N:202:VAL:HG11	2.02	0.41
3:N:408:GLU:H	3:N:408:GLU:HG3	1.59	0.41
3:D:1483:PHE:CD1	3:D:1483:PHE:N	2.87	0.41
2:M:321:GLU:HG3	9:M:1256:HOH:O	2.22	0.41
2:M:1065:ALA:HB3	2:M:1077:PRO:HG2	2.02	0.41
2:M:544:THR:O	2:M:547:ILE:HG13	2.20	0.41
1:A:42:ARG:HG2	1:A:42:ARG:NH1	2.35	0.40
2:M:144:PRO:HA	2:M:163:ILE:HD11	2.02	0.40
2:C:793:PRO:O	2:C:794:PRO:C	2.60	0.40
2:C:193:LEU:HD23	2:C:307:LEU:CD1	2.51	0.40
3:D:55:ASP:HA	3:D:82:LYS:CG	2.45	0.40
2:C:504:GLU:HG2	2:C:507:ARG:HB2	2.02	0.40
3:N:470:LEU:HD11	3:N:509:PRO:HG3	2.04	0.40
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.51	0.40
2:M:897:LEU:CD1	2:M:921:ALA:HA	2.51	0.40
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.35	0.40
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.29	0.40
1:K:94:LEU:HD21	1:K:119:ASP:HB2	2.03	0.40
2:C:671:ASN:ND2	2:C:671:ASN:H	2.16	0.40
3:N:1301:LYS:HD2	3:N:1301:LYS:HA	1.79	0.40
5:F:79:ASP:HB3	5:F:80:PRO:HD3	2.04	0.40
2:M:253:ALA:N	9:M:2036:HOH:O	2.51	0.40
2:M:676:ILE:HG22	2:M:988:VAL:HG22	2.03	0.40
2:C:603:VAL:O	2:C:646:GLY:HA2	2.21	0.40
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.36	0.40
3:D:1061:PHE:CE1	3:D:1065:LEU:HD23	2.53	0.40
1:A:206:THR:HG23	1:A:209:GLU:H	1.84	0.40
3:D:475:LYS:HG3	9:D:9720:HOH:O	2.21	0.40
1:B:59:GLU:HG3	1:B:139:ASN:ND2	2.35	0.40
2:C:669:GLY:C	2:C:670:GLN:HG2	2.41	0.40
3:D:764:LEU:HG	3:D:765:SER:N	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.02	0.40
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.47	0.40
3:D:584:ASN:HB3	9:D:9910:HOH:O	2.20	0.40
3:D:28:LYS:HD2	3:D:552:ASN:HD21	1.86	0.40
5:P:225:GLU:OE1	5:P:226:LYS:HE2	2.21	0.40
3:D:17:LYS:HA	9:D:9899:HOH:O	2.21	0.40
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.50	0.40
3:N:1000:THR:HB	9:N:9990:HOH:O	2.20	0.40
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.22	0.40
2:M:564:MET:SD	2:M:846:LYS:HD2	2.60	0.40
5:F:119:ILE:HA	9:F:584:HOH:O	2.20	0.40
3:N:742:GLY:HA3	9:N:9339:HOH:O	2.20	0.40
2:M:430:VAL:HG13	2:M:430:VAL:O	2.21	0.40
3:D:174:GLY:HA3	9:D:9151:HOH:O	2.21	0.40
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.85	0.40
2:M:305:PRO:HB3	2:M:308:ARG:NH2	2.36	0.40
3:N:27:GLU:O	3:N:28:LYS:HD3	2.21	0.40
5:F:109:GLY:O	5:F:113:ILE:HG13	2.21	0.40
3:D:601:ARG:NH1	5:F:328:PHE:CD1	2.89	0.40
5:P:366:ALA:HB3	5:P:367:MET:CE	2.49	0.40
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	2.56	0.40
2:C:1085:PHE:HE1	2:C:1111:ILE:HG21	1.86	0.40
2:M:682:TYR:HB3	2:M:689:VAL:HG22	2.02	0.40
2:C:47:ALA:O	2:C:50:GLU:HB3	2.21	0.40
2:C:244:PRO:HD2	2:C:245:GLY:N	2.24	0.40
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.36	0.40
3:N:950:GLY:C	3:N:953:ASP:H	2.22	0.40
3:D:1147:ARG:HD2	3:D:1188:VAL:CG2	2.51	0.40
3:D:1420:LEU:HD13	3:D:1421:LEU:H	1.85	0.40
2:C:691:SER:HB3	2:C:868:ASP:HA	2.04	0.40
3:D:860:LEU:HD22	3:D:878:GLY:HA2	2.02	0.40
1:K:23:PHE:CD1	1:K:211:LEU:HD23	2.57	0.40
3:D:1306:PRO:HG3	9:D:9022:HOH:O	2.20	0.40
5:F:273:ARG:O	5:F:276:ARG:HB2	2.21	0.40
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.04	0.40
2:C:707:ARG:HD2	9:C:1247:HOH:O	2.20	0.40
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.50	0.40
2:M:51:THR:HB	2:M:348:LEU:HD23	2.03	0.40
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.42	0.40
1:B:10:VAL:HG11	9:B:492:HOH:O	2.20	0.40
3:D:799:LYS:N	3:D:826:PRO:HG2	2.35	0.40
3:D:814:ALA:HB3	9:D:9257:HOH:O	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:8:ARG:HB3	9:C:2005:HOH:O	2.20	0.40
2:C:8:ARG:N	9:C:1239:HOH:O	2.55	0.40
2:C:169:GLY:HA3	9:C:1751:HOH:O	2.20	0.40
2:C:243:ARG:HB3	9:C:1299:HOH:O	2.22	0.40
5:P:235:PHE:HB2	9:P:4703:HOH:O	2.21	0.40
2:M:196:LEU:HD22	2:M:303:PHE:CD2	2.55	0.40
3:N:168:THR:OG1	3:N:393:ILE:HB	2.22	0.40
3:N:213:VAL:HG22	3:N:214:GLU:H	1.86	0.40
3:D:112:ILE:HG12	3:D:128:TYR:OH	2.21	0.40
3:N:427:VAL:HB	3:N:435:VAL:HG23	2.04	0.40
2:M:433:THR:HA	9:M:1375:HOH:O	2.21	0.40
3:N:90:MET:HE3	3:N:518:PRO:HB3	2.03	0.40
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.52	0.40
3:N:37:LEU:HD23	9:N:9522:HOH:O	2.22	0.40
1:L:41:ARG:HD3	9:L:3689:HOH:O	2.20	0.40
3:N:551:ASN:O	3:N:554:LEU:HB3	2.21	0.40
3:D:1057:VAL:HG23	9:D:9034:HOH:O	2.21	0.40
3:D:704:ARG:HA	3:D:704:ARG:HD2	1.90	0.40
2:M:811:PRO:HD3	9:M:1239:HOH:O	2.22	0.40
2:M:720:GLU:HG2	2:M:760:SER:HB3	2.03	0.40
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.54	0.40
3:N:847:ASP:HA	3:N:850:LEU:CD1	2.50	0.40
3:N:1155:VAL:CG1	3:N:1177:ALA:HB1	2.51	0.40
3:D:491:LYS:HB2	9:D:2025:HOH:O	2.21	0.40
1:K:206:THR:HG22	1:K:209:GLU:OE1	2.22	0.40
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	2.02	0.40
1:A:69:PRO:O	1:A:71:VAL:HG23	2.21	0.40
2:M:1092:LEU:HD21	3:N:1447:LEU:HD21	2.04	0.40
2:M:92:ALA:HA	2:M:93:PRO:HD3	1.95	0.40
3:D:36:THR:HA	9:D:9305:HOH:O	2.21	0.40
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.57	0.40
2:M:596:TYR:HB2	9:M:1449:HOH:O	2.22	0.40
9:N:2191:HOH:O	5:P:225:GLU:HB2	2.21	0.40
2:C:663:ASN:HB3	9:C:1567:HOH:O	2.21	0.40
3:D:984:THR:HG22	3:D:987:GLU:OE2	2.21	0.40
3:N:1282:ARG:CZ	3:N:1282:ARG:HB3	2.52	0.40
1:L:31:GLY:HA3	9:L:4517:HOH:O	2.20	0.40
3:N:782:SER:O	3:N:786:ILE:HG13	2.22	0.40
5:F:279:GLN:NE2	9:F:586:HOH:O	2.53	0.40
2:C:34:VAL:HG22	9:C:1963:HOH:O	2.22	0.40
3:N:411:THR:HG23	3:N:429:SER:OG	2.21	0.40
5:P:234:LYS:H	5:P:234:LYS:HG3	1.64	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.21	0.40
1:A:81:ASN:HA	9:A:321:HOH:O	2.20	0.40
3:N:992:ILE:O	3:N:995:LEU:HB3	2.21	0.40
3:D:138:LYS:HG2	9:D:9491:HOH:O	2.21	0.40
2:M:212:GLY:O	2:M:215:GLY:O	2.39	0.40
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.87	0.40
2:M:313:LEU:HD23	2:M:314:THR:HG23	2.03	0.40
2:C:136:ILE:HG12	2:C:392:SER:OG	2.20	0.40
2:C:397:GLU:H	2:C:633:GLN:CD	2.25	0.40
1:A:184:THR:O	1:A:192:LEU:HG	2.21	0.40
3:N:553:ARG:HD2	3:N:570:GLU:CD	2.42	0.40
2:M:487:THR:HG22	2:M:488:ALA:N	2.37	0.40
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.40
2:C:327:HIS:O	2:C:330:ASN:HB2	2.22	0.40
5:F:217:ASN:O	5:F:221:ILE:HG13	2.21	0.40
3:N:796:ARG:HD3	3:N:861:GLN:HB2	2.02	0.40
3:D:1273:VAL:O	3:D:1273:VAL:HG23	2.22	0.40
1:B:111:ALA:HB3	1:B:124:ASN:O	2.21	0.40
9:C:1791:HOH:O	3:D:13:ALA:N	2.53	0.40
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.86	0.40
2:M:26:TYR:HD2	2:M:121:MET:HB2	1.87	0.40
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.21	0.40
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.56	0.40
3:D:131:LYS:CG	3:D:568:ARG:HG2	2.52	0.40
3:D:1139:ASP:OD1	3:D:1357:ARG:NE	2.54	0.40
3:D:570:GLU:HG2	9:D:9564:HOH:O	2.21	0.40
4:E:61:GLU:OE2	4:E:62:THR:N	2.54	0.40
2:M:78:PHE:HB3	2:M:79:PRO:HD2	2.03	0.40
2:M:372:LEU:HD22	9:M:1901:HOH:O	2.21	0.40
3:N:867:ARG:NH1	9:N:9385:HOH:O	2.47	0.40
3:N:1470:ARG:NE	9:N:9305:HOH:O	2.54	0.40
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.85	0.40
5:F:266:GLU:O	5:F:270:LYS:HG2	2.21	0.40
3:D:178:LEU:CG	3:D:200:ASP:H	2.31	0.40
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.56	0.40
1:K:114:PHE:HE2	1:K:142:VAL:HG13	1.87	0.40
2:M:601:GLY:HA2	2:M:616:GLU:CD	2.42	0.40
3:D:170:PRO:HG3	9:D:9689:HOH:O	2.20	0.40
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.51	0.40
3:N:1319:VAL:HG23	3:N:1319:VAL:O	2.21	0.40
2:M:1081:VAL:HG22	9:M:1596:HOH:O	2.21	0.40
3:D:501:ALA:HB1	3:D:1453:ALA:HA	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:544:THR:HA	2:M:562:SER:OG	2.21	0.40
2:M:53:PRO:HG2	9:M:1765:HOH:O	2.21	0.40
1:B:1:MET:HE2	9:B:365:HOH:O	2.20	0.40
1:B:95:GLN:HB2	1:B:95:GLN:HE21	1.63	0.40
5:F:325:LYS:HA	9:F:599:HOH:O	2.21	0.40
2:M:304:LEU:O	2:M:308:ARG:HB2	2.21	0.40
1:A:191:ASP:O	1:A:191:ASP:CG	2.60	0.40
1:A:29:GLU:O	1:A:193:ASP:OD1	2.40	0.40
3:D:26:VAL:HG23	9:D:9002:HOH:O	2.22	0.40
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.36	0.40
1:K:219:ARG:NH2	1:L:223:THR:HG22	2.17	0.40
2:C:976:ASP:HB2	2:C:979:THR:HG22	2.02	0.40
3:N:983:LEU:N	9:N:2283:HOH:O	2.53	0.40
2:C:282:GLY:HA3	9:C:1198:HOH:O	2.21	0.40
3:D:601:ARG:NE	3:D:606:ILE:HD13	2.37	0.40
5:F:418:LEU:N	5:F:418:LEU:HD12	2.36	0.40
3:D:148:GLU:HG2	3:D:151:GLN:HB2	2.02	0.40
1:L:89:PHE:CZ	1:L:146:ARG:HB3	2.56	0.40
1:L:103:ALA:O	1:L:138:LEU:HD23	2.21	0.40
1:K:18:ARG:HG3	1:K:123:MET:CE	2.51	0.40
3:D:699:VAL:HB	3:D:716:PHE:O	2.22	0.40
2:C:639:GLN:HA	2:C:657:ASP:O	2.22	0.40
2:M:553:ASP:O	3:N:1070:TYR:CE2	2.74	0.40
2:M:760:SER:O	2:M:785:VAL:HG22	2.21	0.40
2:M:620:LEU:HD22	2:M:620:LEU:H	1.85	0.40
3:N:540:LEU:HG	3:N:544:TYR:CE2	2.57	0.40
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.93	0.40
2:M:517:ARG:HD2	2:M:517:ARG:N	2.36	0.40
2:C:376:ARG:HG3	9:C:2017:HOH:O	2.21	0.40
1:K:68:ILE:HA	1:K:69:PRO:HD3	1.95	0.40
3:D:178:LEU:HD12	3:D:200:ASP:HB2	2.03	0.40
5:P:77:THR:O	5:P:81:VAL:HG23	2.22	0.40
3:D:1293:PHE:HD2	9:D:2310:HOH:O	2.05	0.40
2:M:195:LEU:CD1	2:M:234:ALA:HB1	2.50	0.40
1:K:184:THR:HG23	1:K:192:LEU:CB	2.52	0.40
5:P:287:THR:C	5:P:289:GLU:N	2.74	0.40
3:D:1480:PHE:O	3:D:1480:PHE:CD1	2.75	0.40
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.21	0.40
5:F:148:LYS:HG2	9:F:557:HOH:O	2.21	0.40
5:P:294:ALA:HA	9:P:5719:HOH:O	2.20	0.40
2:M:201:GLY:HA2	9:M:1944:HOH:O	2.20	0.40
3:D:1156:LEU:CD1	3:D:1176:LYS:HD2	2.52	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:885:ILE:HG13	9:N:9120:HOH:O	2.20	0.40
4:O:81:PRO:HB3	9:O:3838:HOH:O	2.22	0.40
2:M:214:TYR:HB2	9:M:1137:HOH:O	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	10	11
1	B	227/315 (72%)	200 (88%)	21 (9%)	6 (3%)	8	8
1	K	227/315 (72%)	200 (88%)	24 (11%)	3 (1%)	18	24
1	L	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	13	15
2	C	1117/1119 (100%)	924 (83%)	143 (13%)	50 (4%)	4	2
2	M	1117/1119 (100%)	920 (82%)	149 (13%)	48 (4%)	4	3
3	D	1375/1524 (90%)	1129 (82%)	186 (14%)	60 (4%)	4	2
3	N	1375/1524 (90%)	1129 (82%)	181 (13%)	65 (5%)	4	2
4	E	93/99 (94%)	73 (78%)	16 (17%)	4 (4%)	4	3
4	O	93/99 (94%)	73 (78%)	16 (17%)	4 (4%)	4	3
5	F	341/423 (81%)	288 (84%)	42 (12%)	11 (3%)	6	5
5	P	341/423 (81%)	291 (85%)	37 (11%)	13 (4%)	5	4
All	All	6760/7590 (89%)	5632 (83%)	855 (13%)	273 (4%)	5	3

All (273) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO

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Mol	Chain	Res	Type
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	369	PRO
2	C	442	GLU
2	C	447	ALA
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	908	GLY
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	385	VAL
3	D	440	VAL
3	D	705	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1066	THR
3	D	1129	THR
3	D	1208	ASP
3	D	1236	LEU
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO

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Mol	Chain	Res	Type
2	M	231	PRO
2	M	244	PRO
2	M	288	ARG
2	M	290	LEU
2	M	369	PRO
2	M	442	GLU
2	M	447	ALA
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	864	GLY
2	M	908	GLY
2	M	1106	ASP
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	440	VAL
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	164	PRO

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Mol	Chain	Res	Type
2	C	261	ILE
2	C	290	LEU
2	C	400	PRO
2	C	413	LEU
2	C	425	PHE
2	C	448	ASN
2	C	626	ARG
2	C	627	ARG
2	C	680	ASP
2	C	864	GLY
2	C	1106	ASP
3	D	31	THR
3	D	98	PRO
3	D	231	VAL
3	D	381	ALA
3	D	417	PRO
3	D	504	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	822	ALA
3	D	1213	ARG
4	E	53	GLY
5	F	324	GLU
5	F	325	LYS
5	F	341	PRO
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	413	LEU
2	M	425	PHE
2	M	626	ARG
2	M	680	ASP
3	N	31	THR
3	N	96	ALA
3	N	231	VAL
3	N	381	ALA
3	N	417	PRO
3	N	504	ASP
3	N	594	PRO
3	N	609	GLY

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Mol	Chain	Res	Type
3	N	705	ALA
3	N	766	ALA
3	N	803	GLY
3	N	822	ALA
3	N	1066	THR
3	N	1213	ARG
3	N	1236	LEU
4	O	53	GLY
5	P	288	TYR
5	P	324	GLU
5	P	325	LYS
5	P	341	PRO
2	C	74	GLY
2	C	144	PRO
2	C	170	PRO
2	C	363	SER
2	C	517	ARG
2	C	727	PRO
2	C	781	LYS
2	C	1004	LYS
3	D	37	LEU
3	D	96	ALA
3	D	170	PRO
3	D	424	GLY
3	D	782	SER
3	D	1286	THR
5	F	286	PRO
5	F	288	TYR
5	F	420	ASP
2	M	74	GLY
2	M	164	PRO
2	M	251	ASP
2	M	261	ILE
2	M	282	GLY
2	M	363	SER
2	M	448	ASN
2	M	517	ARG
2	M	627	ARG
2	M	727	PRO
2	M	781	LYS
3	N	37	LEU
3	N	82	LYS

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Mol	Chain	Res	Type
3	N	98	PRO
3	N	170	PRO
3	N	424	GLY
3	N	782	SER
3	N	1286	THR
3	N	1342	GLU
3	N	1385	GLY
5	P	286	PRO
1	A	106	PRO
2	C	180	GLY
2	C	251	ASP
2	C	457	ALA
2	C	598	GLU
2	C	1097	LEU
3	D	120	ALA
3	D	387	LEU
3	D	415	VAL
3	D	416	ALA
3	D	451	ASP
3	D	522	PRO
3	D	530	VAL
3	D	766	ALA
3	D	808	THR
3	D	1385	GLY
3	D	1432	LYS
1	K	106	PRO
1	L	106	PRO
2	M	170	PRO
2	M	180	GLY
2	M	223	ASP
2	M	457	ALA
3	N	120	ALA
3	N	415	VAL
3	N	416	ALA
3	N	522	PRO
3	N	533	GLY
3	N	808	THR
5	P	232	ARG
5	P	416	ARG
1	A	188	GLN
1	B	106	PRO
1	B	188	GLN

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Mol	Chain	Res	Type
2	C	1059	ASP
2	C	1079	PRO
3	D	69	GLU
5	F	167	PRO
2	M	529	VAL
2	M	1079	PRO
3	N	387	LEU
3	N	526	PRO
3	N	530	VAL
3	N	1389	LEU
3	N	1432	LYS
5	P	420	ASP
2	C	415	PRO
2	C	434	HIS
2	C	529	VAL
2	M	40	GLU
2	M	453	THR
2	M	1059	ASP
2	M	1097	LEU
3	N	110	SER
3	N	136	ASP
3	N	173	PRO
3	N	1064	GLY
3	N	1341	PRO
3	N	1349	VAL
5	P	167	PRO
1	A	9	PRO
2	C	282	GLY
2	C	779	GLY
3	D	136	ASP
3	D	526	PRO
3	D	1267	ARG
2	M	779	GLY
2	C	79	PRO
3	D	368	VAL
3	D	509	PRO
3	D	1306	PRO
5	F	297	PRO
2	M	400	PRO
3	N	368	VAL
3	N	1306	PRO
1	B	9	PRO

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

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	154 (76%)	48 (24%)	1	1
1	B	202/273 (74%)	162 (80%)	40 (20%)	2	2
1	K	202/273 (74%)	165 (82%)	37 (18%)	2	2
1	L	202/273 (74%)	156 (77%)	46 (23%)	1	1
2	C	941/941 (100%)	720 (76%)	221 (24%)	1	1
2	M	941/941 (100%)	722 (77%)	219 (23%)	1	1
3	D	1118/1279 (87%)	848 (76%)	270 (24%)	1	1
3	N	1118/1279 (87%)	860 (77%)	258 (23%)	1	1
4	E	83/87 (95%)	65 (78%)	18 (22%)	1	1
4	O	83/87 (95%)	67 (81%)	16 (19%)	2	2
5	F	295/370 (80%)	237 (80%)	58 (20%)	2	2
5	P	295/370 (80%)	245 (83%)	50 (17%)	3	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	5682/6446 (88%)	4401 (78%)	1281 (22%)	1 1

All (1281) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	16	GLN
1	A	20	TYR
1	A	26	GLU
1	A	44	LEU
1	A	45	LEU
1	A	47	SER
1	A	60	ASP
1	A	73	GLU
1	A	74	ASP
1	A	89	PHE
1	A	92	PRO
1	A	94	LEU
1	A	96	THR
1	A	100	LEU
1	A	101	LEU
1	A	104	GLU
1	A	113	ASP
1	A	120	VAL
1	A	126	ASP
1	A	127	LEU
1	A	137	ARG
1	A	138	LEU
1	A	139	ASN
1	A	142	VAL
1	A	143	ARG
1	A	145	ASP
1	A	156	HIS
1	A	163	ASN
1	A	167	VAL
1	A	170	VAL
1	A	179	PHE
1	A	180	GLN

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Mol	Chain	Res	Type
1	A	184	THR
1	A	188	GLN
1	A	191	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	205	VAL
1	A	211	LEU
1	A	216	GLU
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	25	LEU
1	B	26	GLU
1	B	30	ARG
1	B	38	ASN
1	B	60	ASP
1	B	62	LEU
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	81	ASN
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	99	LEU
1	B	101	LEU
1	B	112	ARG
1	B	113	ASP
1	B	124	ASN
1	B	126	ASP
1	B	138	LEU
1	B	140	MET
1	B	141	GLU
1	B	159	LYS
1	B	162	ILE
1	B	176	ARG
1	B	185	ARG

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Mol	Chain	Res	Type
1	B	193	ASP
1	B	196	THR
1	B	200	TRP
1	B	201	THR
1	B	202	ASP
1	B	208	LEU
1	B	209	GLU
1	B	221	HIS
1	B	224	TYR
2	C	5	ARG
2	C	10	ARG
2	C	15	LEU
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	27	ARG
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	71	TYR
2	C	73	LEU
2	C	79	PRO
2	C	81	ASP
2	C	89	THR
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	104	ASP
2	C	108	ILE
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR

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Mol	Chain	Res	Type
2	C	163	ILE
2	C	168	ARG
2	C	177	GLU
2	C	178	PRO
2	C	194	VAL
2	C	196	LEU
2	C	205	GLU
2	C	209	ARG
2	C	216	GLU
2	C	218	VAL
2	C	221	LEU
2	C	229	MET
2	C	235	LEU
2	C	237	ARG
2	C	238	LEU
2	C	243	ARG
2	C	250	ARG
2	C	252	LYS
2	C	254	VAL
2	C	257	VAL
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	301	GLU
2	C	303	PHE
2	C	304	LEU
2	C	309	TYR
2	C	321	GLU
2	C	327	HIS
2	C	331	ARG
2	C	339	LEU
2	C	343	GLN
2	C	350	ARG
2	C	359	MET

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Mol	Chain	Res	Type
2	C	360	LEU
2	C	365	ASP
2	C	367	LEU
2	C	379	GLU
2	C	384	GLU
2	C	387	SER
2	C	388	ARG
2	C	392	SER
2	C	393	GLN
2	C	396	ASP
2	C	399	ASN
2	C	400	PRO
2	C	402	SER
2	C	408	ARG
2	C	415	PRO
2	C	418	LEU
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	422	ARG
2	C	425	PHE
2	C	428	ARG
2	C	432	ARG
2	C	442	GLU
2	C	443	THR
2	C	445	GLU
2	C	452	ILE
2	C	455	LEU
2	C	469	THR
2	C	473	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	487	THR
2	C	492	ASP
2	C	500	ASN
2	C	503	LEU
2	C	504	GLU
2	C	524	VAL
2	C	530	GLU
2	C	533	ASP
2	C	543	ASN

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Mol	Chain	Res	Type
2	C	556	ASN
2	C	559	LEU
2	C	564	MET
2	C	566	THR
2	C	584	GLU
2	C	605	LYS
2	C	606	VAL
2	C	607	ASP
2	C	620	LEU
2	C	622	GLU
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	673	LEU
2	C	679	PHE
2	C	690	ILE
2	C	691	SER
2	C	693	GLU
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	701	THR
2	C	702	SER
2	C	715	THR
2	C	716	LYS
2	C	722	ILE
2	C	723	THR
2	C	725	ASP
2	C	727	PRO
2	C	730	SER
2	C	737	LEU
2	C	740	GLU
2	C	744	ARG
2	C	760	SER
2	C	768	THR
2	C	780	GLU
2	C	785	VAL

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Mol	Chain	Res	Type
2	C	799	ILE
2	C	804	VAL
2	C	808	ARG
2	C	821	GLU
2	C	829	GLN
2	C	834	GLN
2	C	839	LEU
2	C	841	ASN
2	C	858	MET
2	C	863	ASP
2	C	870	ILE
2	C	878	SER
2	C	879	ARG
2	C	881	ASN
2	C	882	LEU
2	C	900	ARG
2	C	904	PRO
2	C	905	ILE
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	937	ASP
2	C	939	ARG
2	C	945	ARG
2	C	950	LEU
2	C	953	VAL
2	C	958	THR
2	C	960	GLU
2	C	962	GLN
2	C	975	TYR
2	C	978	ARG
2	C	981	GLU
2	C	982	PRO
2	C	984	GLU
2	C	995	MET
2	C	997	LEU
2	C	999	HIS
2	C	1000	MET
2	C	1002	GLU
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR

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Mol	Chain	Res	Type
2	C	1018	GLN
2	C	1019	GLN
2	C	1020	PRO
2	C	1021	LEU
2	C	1034	GLU
2	C	1040	LEU
2	C	1052	MET
2	C	1054	THR
2	C	1058	ASP
2	C	1076	VAL
2	C	1079	PRO
2	C	1083	GLU
2	C	1088	LEU
2	C	1091	GLU
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
2	C	1104	GLU
2	C	1106	ASP
2	C	1113	GLU
3	D	3	LYS
3	D	6	ARG
3	D	9	ARG
3	D	12	LEU
3	D	14	SER
3	D	25	GLU
3	D	27	GLU
3	D	32	ILE
3	D	33	ASN
3	D	34	TYR
3	D	35	ARG
3	D	41	ARG
3	D	42	ASP
3	D	48	ARG
3	D	56	TYR
3	D	69	GLU
3	D	71	LYS
3	D	80	VAL
3	D	82	LYS
3	D	84	ILE
3	D	85	VAL
3	D	86	ARG

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Mol	Chain	Res	Type
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	117	ASP
3	D	118	LEU
3	D	127	LEU
3	D	133	ILE
3	D	145	VAL
3	D	147	VAL
3	D	152	LEU
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO
3	D	171	LEU
3	D	185	VAL
3	D	199	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	389	GLU
3	D	394	LEU
3	D	395	VAL
3	D	406	ASP
3	D	411	THR
3	D	413	ASP
3	D	430	ASP
3	D	432	TYR
3	D	441	ARG
3	D	444	VAL
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	452	ILE
3	D	456	MET
3	D	465	LEU
3	D	475	LYS
3	D	481	MET

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Mol	Chain	Res	Type
3	D	483	HIS
3	D	486	ARG
3	D	503	LEU
3	D	505	SER
3	D	507	ASN
3	D	521	PRO
3	D	528	VAL
3	D	529	GLN
3	D	540	LEU
3	D	542	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	573	MET
3	D	590	PRO
3	D	594	PRO
3	D	596	SER
3	D	597	ASP
3	D	598	ARG
3	D	605	ASP
3	D	608	SER
3	D	614	PHE
3	D	617	ASN
3	D	624	ASP
3	D	628	ARG
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	659	LYS
3	D	666	ILE
3	D	675	ARG
3	D	676	MET
3	D	679	ARG
3	D	682	ASP
3	D	685	ASP
3	D	688	TRP
3	D	695	ILE
3	D	702	LEU
3	D	704	ARG
3	D	709	HIS

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Mol	Chain	Res	Type
3	D	710	ARG
3	D	713	ILE
3	D	716	PHE
3	D	717	GLN
3	D	720	LEU
3	D	724	GLN
3	D	734	GLU
3	D	752	SER
3	D	754	PHE
3	D	762	GLN
3	D	764	LEU
3	D	767	HIS
3	D	784	ASP
3	D	794	GLN
3	D	797	LYS
3	D	799	LYS
3	D	800	LYS
3	D	804	LEU
3	D	805	GLU
3	D	813	LEU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	833	GLU
3	D	838	ARG
3	D	839	LEU
3	D	847	ASP
3	D	858	VAL
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	869	MET
3	D	875	THR
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	893	GLU
3	D	898	GLU
3	D	901	GLN

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Mol	Chain	Res	Type
3	D	904	VAL
3	D	910	SER
3	D	916	TYR
3	D	922	LEU
3	D	927	THR
3	D	929	ARG
3	D	944	THR
3	D	951	ILE
3	D	952	ASP
3	D	962	GLN
3	D	972	LEU
3	D	973	GLN
3	D	982	PHE
3	D	985	ASP
3	D	987	GLU
3	D	988	ARG
3	D	999	THR
3	D	1001	GLU
3	D	1026	SER
3	D	1032	PRO
3	D	1033	GLN
3	D	1042	ARG
3	D	1045	MET
3	D	1049	SER
3	D	1051	GLU
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1074	SER
3	D	1084	THR
3	D	1086	LEU
3	D	1095	THR
3	D	1096	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1127	GLU
3	D	1129	THR
3	D	1130	ARG
3	D	1131	SER
3	D	1133	ARG

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Mol	Chain	Res	Type
3	D	1135	ARG
3	D	1151	ARG
3	D	1152	GLU
3	D	1160	LEU
3	D	1161	GLU
3	D	1162	GLU
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1173	LEU
3	D	1176	LYS
3	D	1182	GLU
3	D	1183	ILE
3	D	1191	PRO
3	D	1195	GLN
3	D	1196	THR
3	D	1197	ARG
3	D	1207	TYR
3	D	1213	ARG
3	D	1219	GLU
3	D	1238	MET
3	D	1239	ARG
3	D	1253	THR
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1280	VAL
3	D	1285	GLU
3	D	1290	LEU
3	D	1295	GLU
3	D	1299	PHE
3	D	1306	PRO
3	D	1307	LYS
3	D	1310	ARG
3	D	1314	LYS
3	D	1318	TYR
3	D	1323	GLN
3	D	1325	LEU
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU

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Mol	Chain	Res	Type
3	D	1346	ARG
3	D	1348	LEU
3	D	1350	GLU
3	D	1353	GLN
3	D	1359	GLN
3	D	1363	LEU
3	D	1365	ASP
3	D	1374	GLN
3	D	1382	THR
3	D	1383	ASP
3	D	1386	ASP
3	D	1387	SER
3	D	1389	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1407	LEU
3	D	1410	GLU
3	D	1415	VAL
3	D	1419	PRO
3	D	1420	LEU
3	D	1421	LEU
3	D	1424	VAL
3	D	1432	LYS
3	D	1433	SER
3	D	1435	LEU
3	D	1439	SER
3	D	1440	PHE
3	D	1455	LYS
3	D	1460	ILE
3	D	1462	LEU
3	D	1480	PHE
3	D	1481	VAL
3	D	1483	PHE
3	D	1485	GLN
3	D	1487	VAL
3	D	1488	ASP
3	D	1496	GLU
3	D	1501	GLU
4	E	7	ASP
4	E	14	ASP
4	E	15	SER
4	E	28	GLN

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Mol	Chain	Res	Type
4	E	29	GLN
4	E	31	LEU
4	E	32	ARG
4	E	40	LEU
4	E	42	PRO
4	E	45	ARG
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	67	GLU
4	E	75	PHE
4	E	81	PRO
4	E	84	ARG
4	E	89	MET
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	90	GLN
5	F	91	VAL
5	F	115	LYS
5	F	117	SER
5	F	125	ASP
5	F	126	LEU
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	150	THR
5	F	164	LYS
5	F	172	ARG
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	194	LEU
5	F	209	PHE
5	F	212	LEU
5	F	220	LEU
5	F	225	GLU
5	F	233	PHE
5	F	240	THR
5	F	245	GLN

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Mol	Chain	Res	Type
5	F	249	ARG
5	F	266	GLU
5	F	269	ASN
5	F	281	GLU
5	F	282	LEU
5	F	285	GLU
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	306	GLU
5	F	316	SER
5	F	317	LEU
5	F	319	THR
5	F	324	GLU
5	F	328	PHE
5	F	337	HIS
5	F	340	SER
5	F	341	PRO
5	F	343	ASP
5	F	349	LEU
5	F	353	GLU
5	F	362	SER
5	F	370	LYS
5	F	393	THR
5	F	398	ARG
5	F	399	GLN
5	F	403	LYS
5	F	410	TYR
5	F	419	ARG
5	F	420	ASP
1	K	1	MET
1	K	9	PRO
1	K	18	ARG
1	K	25	LEU
1	K	44	LEU
1	K	45	LEU
1	K	55	SER
1	K	62	LEU
1	K	73	GLU
1	K	80	LEU
1	K	89	PHE
1	K	92	PRO

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Mol	Chain	Res	Type
1	K	95	GLN
1	K	101	LEU
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	121	GLU
1	K	127	LEU
1	K	131	THR
1	K	138	LEU
1	K	161	ARG
1	K	167	VAL
1	K	176	ARG
1	K	184	THR
1	K	189	ARG
1	K	190	THR
1	K	193	ASP
1	K	196	THR
1	K	198	ARG
1	K	206	THR
1	K	211	LEU
1	K	215	VAL
1	K	222	LEU
1	K	223	THR
1	K	227	ASN
1	K	229	GLN
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	7	LYS
1	L	9	PRO
1	L	20	TYR
1	L	25	LEU
1	L	29	GLU
1	L	38	ASN
1	L	47	SER
1	L	62	LEU
1	L	65	PHE
1	L	73	GLU
1	L	77	GLU
1	L	81	ASN
1	L	89	PHE
1	L	94	LEU

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Mol	Chain	Res	Type
1	L	95	GLN
1	L	101	LEU
1	L	104	GLU
1	L	110	LYS
1	L	113	ASP
1	L	124	ASN
1	L	128	HIS
1	L	134	GLU
1	L	138	LEU
1	L	141	GLU
1	L	146	ARG
1	L	159	LYS
1	L	161	ARG
1	L	162	ILE
1	L	172	SER
1	L	176	ARG
1	L	177	VAL
1	L	180	GLN
1	L	181	VAL
1	L	182	GLU
1	L	184	THR
1	L	197	LEU
1	L	200	TRP
1	L	201	THR
1	L	206	THR
1	L	212	ASN
1	L	213	GLN
1	L	216	GLU
1	L	227	ASN
2	M	3	ILE
2	M	9	ILE
2	M	10	ARG
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	39	ARG
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	71	TYR
2	M	77	PRO

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Mol	Chain	Res	Type
2	M	81	ASP
2	M	82	GLU
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	100	LEU
2	M	102	HIS
2	M	104	ASP
2	M	105	THR
2	M	107	LEU
2	M	111	ASP
2	M	114	PHE
2	M	115	LEU
2	M	140	ILE
2	M	141	HIS
2	M	143	SER
2	M	150	PRO
2	M	158	TYR
2	M	163	ILE
2	M	175	GLU
2	M	178	PRO
2	M	184	MET
2	M	198	ARG
2	M	203	ASP
2	M	205	GLU
2	M	221	LEU
2	M	222	MET
2	M	223	ASP
2	M	229	MET
2	M	230	ARG
2	M	233	GLU
2	M	235	LEU
2	M	237	ARG
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU
2	M	242	LEU
2	M	243	ARG
2	M	246	ASP
2	M	252	LYS
2	M	254	VAL
2	M	257	VAL

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Mol	Chain	Res	Type
2	M	260	LEU
2	M	266	ARG
2	M	267	TYR
2	M	268	ASP
2	M	276	LYS
2	M	281	LEU
2	M	285	LEU
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	313	LEU
2	M	321	GLU
2	M	322	VAL
2	M	328	LEU
2	M	339	LEU
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	366	SER
2	M	367	LEU
2	M	371	LYS
2	M	376	ARG
2	M	379	GLU
2	M	383	ARG
2	M	387	SER
2	M	393	GLN
2	M	394	PHE
2	M	396	ASP
2	M	397	GLU
2	M	399	ASN
2	M	400	PRO
2	M	402	SER
2	M	419	THR
2	M	420	ARG
2	M	421	GLU
2	M	425	PHE
2	M	432	ARG
2	M	443	THR

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Mol	Chain	Res	Type
2	M	445	GLU
2	M	455	LEU
2	M	460	ARG
2	M	462	ASP
2	M	468	ARG
2	M	472	ARG
2	M	480	THR
2	M	481	ASP
2	M	482	GLU
2	M	486	MET
2	M	496	ILE
2	M	500	ASN
2	M	502	PRO
2	M	503	LEU
2	M	507	ARG
2	M	511	GLU
2	M	517	ARG
2	M	524	VAL
2	M	527	GLU
2	M	528	GLU
2	M	533	ASP
2	M	542	VAL
2	M	543	ASN
2	M	544	THR
2	M	545	ASN
2	M	548	PRO
2	M	554	ASP
2	M	562	SER
2	M	563	ASN
2	M	564	MET
2	M	565	GLN
2	M	571	LEU
2	M	579	VAL
2	M	586	ARG
2	M	588	VAL
2	M	589	ARG
2	M	599	GLU
2	M	600	ASP
2	M	607	ASP
2	M	617	ASP
2	M	620	LEU
2	M	626	ARG

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Mol	Chain	Res	Type
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	639	GLN
2	M	640	ARG
2	M	645	VAL
2	M	648	ARG
2	M	654	LEU
2	M	657	ASP
2	M	659	PRO
2	M	663	ASN
2	M	668	LEU
2	M	676	ILE
2	M	677	MET
2	M	686	ASP
2	M	697	ARG
2	M	699	PHE
2	M	701	THR
2	M	713	ARG
2	M	714	ASP
2	M	715	THR
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	737	LEU
2	M	744	ARG
2	M	748	GLU
2	M	749	VAL
2	M	750	LYS
2	M	775	ARG
2	M	785	VAL
2	M	790	LEU
2	M	799	ILE
2	M	808	ARG
2	M	821	GLU
2	M	829	GLN
2	M	839	LEU
2	M	841	ASN
2	M	860	HIS
2	M	862	PRO
2	M	865	THR
2	M	870	ILE

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Mol	Chain	Res	Type
2	M	879	ARG
2	M	881	ASN
2	M	886	LEU
2	M	890	LEU
2	M	900	ARG
2	M	905	ILE
2	M	907	ASP
2	M	911	GLU
2	M	925	TYR
2	M	928	LYS
2	M	937	ASP
2	M	940	GLU
2	M	950	LEU
2	M	976	ASP
2	M	978	ARG
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1000	MET
2	M	1002	GLU
2	M	1004	LYS
2	M	1006	HIS
2	M	1008	ARG
2	M	1009	SER
2	M	1016	ILE
2	M	1017	THR
2	M	1035	MET
2	M	1052	MET
2	M	1054	THR
2	M	1074	GLU
2	M	1079	PRO
2	M	1080	SER
2	M	1088	LEU
2	M	1091	GLU
2	M	1092	LEU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
3	N	3	LYS
3	N	7	LYS
3	N	12	LEU
3	N	14	SER

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Mol	Chain	Res	Type
3	N	15	PRO
3	N	27	GLU
3	N	28	LYS
3	N	31	THR
3	N	33	ASN
3	N	34	TYR
3	N	41	ARG
3	N	52	PRO
3	N	55	ASP
3	N	56	TYR
3	N	68	PHE
3	N	71	LYS
3	N	76	CYS
3	N	82	LYS
3	N	85	VAL
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU
3	N	97	THR
3	N	101	HIS
3	N	103	TRP
3	N	107	ASP
3	N	108	VAL
3	N	111	LYS
3	N	112	ILE
3	N	123	LEU
3	N	128	TYR
3	N	131	LYS
3	N	133	ILE
3	N	142	LEU
3	N	145	VAL
3	N	147	VAL
3	N	153	LEU
3	N	162	ARG
3	N	165	LYS
3	N	166	GLN
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	172	PRO
3	N	176	ASP
3	N	185	VAL

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Mol	Chain	Res	Type
3	N	199	LEU
3	N	204	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	389	GLU
3	N	394	LEU
3	N	405	ASP
3	N	408	GLU
3	N	411	THR
3	N	413	ASP
3	N	417	PRO
3	N	419	ASP
3	N	421	LEU
3	N	430	ASP
3	N	432	TYR
3	N	441	ARG
3	N	444	VAL
3	N	445	ARG
3	N	447	VAL
3	N	450	TYR
3	N	452	ILE
3	N	453	ASP
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	465	LEU
3	N	483	HIS
3	N	488	ARG
3	N	493	ARG
3	N	502	PHE
3	N	513	ILE
3	N	518	PRO
3	N	523	ASP
3	N	530	VAL
3	N	531	ASP
3	N	535	PHE
3	N	571	LYS
3	N	576	GLU
3	N	586	ARG
3	N	590	PRO
3	N	593	ASN

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Mol	Chain	Res	Type
3	N	594	PRO
3	N	598	ARG
3	N	600	LEU
3	N	601	ARG
3	N	602	SER
3	N	613	ARG
3	N	614	PHE
3	N	617	ASN
3	N	624	ASP
3	N	625	TYR
3	N	628	ARG
3	N	636	GLN
3	N	639	LEU
3	N	641	GLN
3	N	652	LEU
3	N	664	LYS
3	N	666	ILE
3	N	676	MET
3	N	681	ARG
3	N	684	LYS
3	N	688	TRP
3	N	692	GLU
3	N	695	ILE
3	N	701	LEU
3	N	704	ARG
3	N	716	PHE
3	N	717	GLN
3	N	724	GLN
3	N	725	SER
3	N	732	VAL
3	N	736	PHE
3	N	739	ASP
3	N	749	VAL
3	N	754	PHE
3	N	770	LEU
3	N	781	PRO
3	N	783	ARG
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS

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Mol	Chain	Res	Type
3	N	799	LYS
3	N	800	LYS
3	N	805	GLU
3	N	823	LEU
3	N	824	ASN
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	839	LEU
3	N	840	LYS
3	N	846	PRO
3	N	847	ASP
3	N	863	VAL
3	N	865	THR
3	N	875	THR
3	N	880	ILE
3	N	888	GLU
3	N	892	ASP
3	N	897	TRP
3	N	914	LEU
3	N	917	GLN
3	N	926	LYS
3	N	944	THR
3	N	951	ILE
3	N	959	GLU
3	N	970	LYS
3	N	984	THR
3	N	987	GLU
3	N	994	GLN
3	N	999	THR
3	N	1005	GLN
3	N	1019	PRO
3	N	1034	GLN
3	N	1039	CYS
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG
3	N	1063	GLU

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Mol	Chain	Res	Type
3	N	1065	LEU
3	N	1068	LEU
3	N	1074	SER
3	N	1084	THR
3	N	1086	LEU
3	N	1093	TYR
3	N	1101	VAL
3	N	1104	GLU
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1114	THR
3	N	1119	SER
3	N	1127	GLU
3	N	1129	THR
3	N	1135	ARG
3	N	1151	ARG
3	N	1158	VAL
3	N	1161	GLU
3	N	1166	LEU
3	N	1176	LYS
3	N	1183	ILE
3	N	1184	GLN
3	N	1195	GLN
3	N	1197	ARG
3	N	1202	GLN
3	N	1207	TYR
3	N	1210	SER
3	N	1216	SER
3	N	1254	GLN
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1278	ASP
3	N	1280	VAL
3	N	1284	GLU
3	N	1285	GLU
3	N	1286	THR
3	N	1297	GLU
3	N	1299	PHE
3	N	1305	LEU
3	N	1307	LYS

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Mol	Chain	Res	Type
3	N	1312	LEU
3	N	1314	LYS
3	N	1315	ASP
3	N	1325	LEU
3	N	1331	ASP
3	N	1337	GLU
3	N	1346	ARG
3	N	1348	LEU
3	N	1353	GLN
3	N	1359	GLN
3	N	1363	LEU
3	N	1368	ILE
3	N	1372	VAL
3	N	1378	TYR
3	N	1380	GLU
3	N	1381	VAL
3	N	1382	THR
3	N	1387	SER
3	N	1390	LEU
3	N	1395	LEU
3	N	1396	GLU
3	N	1401	GLU
3	N	1403	LEU
3	N	1404	ASN
3	N	1415	VAL
3	N	1419	PRO
3	N	1424	VAL
3	N	1431	THR
3	N	1432	LYS
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1442	ASN
3	N	1447	LEU
3	N	1452	ILE
3	N	1460	ILE
3	N	1463	LYS
3	N	1465	ASN
3	N	1466	VAL
3	N	1478	SER
3	N	1488	ASP

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Mol	Chain	Res	Type
3	N	1499	ARG
3	N	1501	GLU
4	O	6	ILE
4	O	12	MET
4	O	15	SER
4	O	17	TYR
4	O	29	GLN
4	O	32	ARG
4	O	45	ARG
4	O	47	LYS
4	O	48	MET
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	70	THR
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	90	GLN
5	P	91	VAL
5	P	96	LEU
5	P	117	SER
5	P	125	ASP
5	P	135	ILE
5	P	136	LEU
5	P	142	ARG
5	P	143	HIS
5	P	144	ILE
5	P	145	PRO
5	P	150	THR
5	P	151	LEU
5	P	174	LEU
5	P	176	ILE
5	P	185	GLN
5	P	187	LEU
5	P	200	LYS
5	P	211	ASP
5	P	218	GLN
5	P	234	LYS

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Mol	Chain	Res	Type
5	P	249	ARG
5	P	266	GLU
5	P	289	GLU
5	P	295	MET
5	P	306	GLU
5	P	313	GLU
5	P	316	SER
5	P	318	GLU
5	P	328	PHE
5	P	335	ASP
5	P	336	GLU
5	P	341	PRO
5	P	342	VAL
5	P	347	GLN
5	P	349	LEU
5	P	350	LEU
5	P	353	GLU
5	P	363	GLU
5	P	370	LYS
5	P	392	VAL
5	P	393	THR
5	P	399	GLN
5	P	403	LYS
5	P	408	LEU
5	P	410	TYR
5	P	419	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (166) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	128	HIS
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	227	ASN
1	A	229	GLN
1	B	95	GLN
1	B	124	ASN
1	B	227	ASN

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Mol	Chain	Res	Type
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	91	GLN
2	C	99	GLN
2	C	117	HIS
2	C	204	GLN
2	C	343	GLN
2	C	374	ASN
2	C	393	GLN
2	C	431	HIS
2	C	448	ASN
2	C	500	ASN
2	C	506	ASN
2	C	538	GLN
2	C	563	ASN
2	C	565	GLN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN
2	C	728	HIS
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	884	GLN
2	C	889	HIS
2	C	899	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	507	ASN
3	D	569	ASN
3	D	616	GLN
3	D	617	ASN
3	D	636	GLN
3	D	724	GLN
3	D	727	GLN
3	D	748	HIS
3	D	756	GLN
3	D	768	ASN
3	D	794	GLN
3	D	824	ASN

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Mol	Chain	Res	Type
3	D	917	GLN
3	D	973	GLN
3	D	1018	ASN
3	D	1033	GLN
3	D	1046	GLN
3	D	1116	ASN
3	D	1124	GLN
3	D	1184	GLN
3	D	1254	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1465	ASN
3	D	1485	GLN
4	E	28	GLN
4	E	37	ASN
4	E	86	GLN
5	F	83	GLN
5	F	90	GLN
5	F	217	ASN
5	F	218	GLN
5	F	312	GLN
5	F	337	HIS
5	F	402	ASN
1	K	38	ASN
1	K	63	HIS
1	K	81	ASN
1	K	156	HIS
1	K	180	GLN
1	K	212	ASN
1	K	213	GLN
1	K	227	ASN
1	K	229	GLN
1	L	63	HIS
1	L	81	ASN
1	L	95	GLN
1	L	124	ASN
1	L	139	ASN
1	L	212	ASN
1	L	227	ASN
2	M	22	GLN
2	M	31	GLN
2	M	91	GLN

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Mol	Chain	Res	Type
2	M	99	GLN
2	M	102	HIS
2	M	117	HIS
2	M	139	GLN
2	M	327	HIS
2	M	343	GLN
2	M	374	ASN
2	M	393	GLN
2	M	431	HIS
2	M	545	ASN
2	M	565	GLN
2	M	567	GLN
2	M	609	ASN
2	M	632	ASN
2	M	633	GLN
2	M	639	GLN
2	M	663	ASN
2	M	834	GLN
2	M	841	ASN
2	M	860	HIS
2	M	881	ASN
2	M	889	HIS
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1107	ASN
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	442	ASN
3	N	462	GLN
3	N	549	ASN
3	N	560	GLN
3	N	640	HIS
3	N	703	ASN
3	N	717	GLN
3	N	744	GLN
3	N	756	GLN
3	N	768	ASN
3	N	824	ASN
3	N	976	GLN

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Mol	Chain	Res	Type
3	N	994	GLN
3	N	1005	GLN
3	N	1033	GLN
3	N	1034	GLN
3	N	1103	HIS
3	N	1172	HIS
3	N	1184	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1353	GLN
3	N	1374	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	33	HIS
4	O	59	ASN
4	O	78	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	170	HIS
5	P	185	GLN
5	P	217	ASN
5	P	245	GLN
5	P	312	GLN
5	P	337	HIS

5.3.3 RNA ⓘ

There are no RNA chains 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	$\# Z > 2$
6	STD	D	8001	-	47,47,47	7.81	29 (61%)	73,73,73	2.67	20 (27%)
6	STD	N	8002	-	47,47,47	7.86	30 (63%)	73,73,73	2.73	21 (28%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	STD	D	8001	-	-	0/31/101/101	0/2/5/5
6	STD	N	8002	-	-	2/31/101/101	0/2/5/5

All (59) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	8001	STD	O5-C19	-29.51	1.18	1.42
6	N	8002	STD	O5-C19	-28.56	1.18	1.42
6	N	8002	STD	C16-C17	-22.98	1.29	1.53
6	D	8001	STD	C16-C17	-21.59	1.31	1.53
6	N	8002	STD	C23-C21	-13.54	1.21	1.53
6	D	8001	STD	C23-C21	-13.47	1.22	1.53
6	N	8002	STD	O8-C19	12.92	1.53	1.42
6	D	8001	STD	C18-C16	-12.80	1.25	1.53
6	N	8002	STD	C18-C16	-12.56	1.25	1.53
6	N	8002	STD	C21-C20	12.22	1.68	1.55
6	D	8001	STD	O8-C19	12.20	1.53	1.42
6	D	8001	STD	C21-C20	12.10	1.68	1.55
6	N	8002	STD	C15-C12	-11.96	1.21	1.52
6	D	8001	STD	C15-C12	-11.63	1.22	1.52
6	D	8001	STD	O5-C13	10.46	1.62	1.44
6	N	8002	STD	O5-C13	10.06	1.61	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	8001	STD	C17-C30	9.91	1.66	1.49
6	D	8001	STD	O8-C17	9.52	1.52	1.44
6	N	8002	STD	O8-C17	9.41	1.52	1.44
6	N	8002	STD	C17-C30	8.93	1.64	1.49
6	D	8001	STD	C15-C26	7.81	1.62	1.52
6	N	8002	STD	O9-C28	7.80	1.52	1.43
6	N	8002	STD	C15-C26	7.66	1.62	1.52
6	N	8002	STD	C22-N2	7.06	1.43	1.33
6	D	8001	STD	C22-N2	6.87	1.42	1.33
6	D	8001	STD	O9-C28	6.57	1.51	1.43
6	N	8002	STD	C6-C5	-6.51	1.36	1.45
6	D	8001	STD	C16-C13	6.39	1.67	1.53
6	N	8002	STD	C16-C13	6.24	1.67	1.53
6	D	8001	STD	C20-C3	6.11	1.61	1.53
6	N	8002	STD	C30-C32	5.56	1.40	1.32
6	N	8002	STD	C21-C22	5.45	1.62	1.52
6	D	8001	STD	C30-C32	5.26	1.40	1.32
6	N	8002	STD	C7-C8	-5.05	1.34	1.45
6	D	8001	STD	C26-C25	4.99	1.63	1.52
6	D	8001	STD	C6-C5	-4.75	1.38	1.45
6	N	8002	STD	C31-C28	4.70	1.52	1.47
6	N	8002	STD	O4-C4	4.64	1.48	1.42
6	D	8001	STD	C31-C28	4.56	1.51	1.47
6	N	8002	STD	C26-C25	4.56	1.62	1.52
6	D	8001	STD	C21-C22	4.21	1.60	1.52
6	D	8001	STD	C7-C8	-4.09	1.36	1.45
6	N	8002	STD	C20-C3	4.08	1.59	1.53
6	D	8001	STD	C4-N1	4.06	1.51	1.45
6	D	8001	STD	C28-C19	3.60	1.63	1.55
6	N	8002	STD	C28-C19	3.29	1.62	1.55
6	D	8001	STD	O4-C4	3.22	1.46	1.42
6	N	8002	STD	C4-N1	3.11	1.50	1.45
6	N	8002	STD	O9-C31	3.06	1.53	1.45
6	D	8001	STD	O9-C31	2.94	1.52	1.45
6	D	8001	STD	C12-C4	2.69	1.62	1.50
6	D	8001	STD	C29-C19	2.57	1.55	1.51
6	D	8001	STD	C11-C8	2.50	1.55	1.51
6	N	8002	STD	C29-C19	2.46	1.55	1.51
6	N	8002	STD	O4-C25	2.43	1.50	1.44
6	D	8001	STD	C28-C32	2.31	1.54	1.50
6	N	8002	STD	C11-C8	2.28	1.55	1.51
6	N	8002	STD	C12-C4	2.20	1.60	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	N	8002	STD	C27-C25	2.16	1.57	1.51

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	8002	STD	C5-C1-C2	9.69	134.75	120.25
6	N	8002	STD	C19-O5-C13	9.58	122.91	112.98
6	D	8001	STD	C5-C1-C2	9.02	133.75	120.25
6	D	8001	STD	O8-C17-C30	-8.84	105.06	111.47
6	N	8002	STD	O8-C17-C30	-8.57	105.26	111.47
6	D	8001	STD	C19-O5-C13	8.02	121.29	112.98
6	D	8001	STD	C1-C2-N1	7.08	119.11	108.89
6	N	8002	STD	C1-C2-N1	6.61	118.43	108.89
6	D	8001	STD	C20-N1-C2	-6.03	103.15	111.97
6	N	8002	STD	C20-N1-C2	-5.92	103.32	111.97
6	N	8002	STD	C2-C1-C3	-4.64	102.67	107.82
6	D	8001	STD	C16-C17-C30	4.31	119.52	111.80
6	D	8001	STD	O2-C2-N1	-4.28	118.39	125.89
6	N	8002	STD	C15-C12-C4	4.20	116.11	108.81
6	N	8002	STD	C16-C17-C30	4.18	119.30	111.80
6	N	8002	STD	O2-C2-N1	-4.18	118.56	125.89
6	D	8001	STD	C15-C12-C4	4.12	115.97	108.81
6	D	8001	STD	C2-C1-C3	-4.12	103.25	107.82
6	D	8001	STD	C10-C13-C16	4.11	122.69	115.82
6	D	8001	STD	C7-C6-C5	4.11	127.77	122.36
6	N	8002	STD	C7-C6-C5	3.53	127.01	122.36
6	D	8001	STD	O2-C2-C1	-3.26	122.49	130.04
6	N	8002	STD	C18-C16-C17	3.25	115.02	111.10
6	N	8002	STD	O5-C19-C29	3.14	107.99	105.63
6	D	8001	STD	C12-C15-C26	3.06	116.53	111.81
6	N	8002	STD	O2-C2-C1	-3.04	123.01	130.04
6	N	8002	STD	C10-C13-C16	2.98	120.80	115.82
6	D	8001	STD	C19-C28-C32	2.71	117.42	112.08
6	D	8001	STD	C18-C16-C17	2.69	114.34	111.10
6	N	8002	STD	C12-C15-C26	2.64	115.87	111.81
6	D	8001	STD	O4-C4-N1	2.59	109.83	106.09
6	N	8002	STD	O4-C4-N1	2.46	109.64	106.09
6	D	8001	STD	O5-C19-C29	2.46	107.47	105.63
6	N	8002	STD	C19-C28-C32	2.32	116.65	112.08
6	D	8001	STD	C31-C28-C19	-2.24	118.22	121.80
6	D	8001	STD	C4-N1-C20	2.12	130.84	124.66
6	D	8001	STD	C20-C21-C22	2.08	115.02	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	N	8002	STD	O9-C28-C19	2.05	119.01	115.67
6	N	8002	STD	C4-N1-C20	2.03	130.58	124.66
6	N	8002	STD	C20-C3-C1	2.01	109.18	107.12
6	N	8002	STD	C20-C21-C22	2.01	114.85	110.13

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	N	8002	STD	O6-C22-N2-C24
6	N	8002	STD	C21-C22-N2-C24

There are no ring outliers.

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, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	2.24	66 (28%) 1 1	31, 63, 90, 117	0
1	B	229/315 (72%)	2.86	78 (34%) 1 0	53, 90, 112, 118	0
1	K	229/315 (72%)	1.68	63 (27%) 1 1	33, 62, 87, 122	0
1	L	229/315 (72%)	3.42	81 (35%) 1 0	50, 87, 110, 125	0
2	C	1119/1119 (100%)	3.45	463 (41%) 1 0	25, 78, 104, 116	0
2	M	1119/1119 (100%)	3.05	414 (36%) 1 0	23, 72, 104, 115	0
3	D	1381/1524 (90%)	2.09	398 (28%) 1 1	27, 67, 107, 119	0
3	N	1381/1524 (90%)	2.02	393 (28%) 1 1	27, 68, 108, 120	0
4	E	95/99 (95%)	1.87	27 (28%) 1 1	44, 81, 108, 128	0
4	O	95/99 (95%)	2.23	38 (40%) 1 0	44, 75, 93, 105	0
5	F	345/423 (81%)	3.98	150 (43%) 1 0	55, 84, 107, 122	0
5	P	345/423 (81%)	3.48	137 (39%) 1 0	62, 84, 108, 116	0
All	All	6796/7590 (89%)	2.69	2308 (33%) 1 0	23, 73, 106, 128	0

All (2308) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	405	ASP	69.5
3	N	406	ASP	56.9
5	P	415	THR	53.2
3	D	853	VAL	53.1
2	M	227	PHE	49.3
1	A	1	MET	48.7
2	C	513	VAL	47.8
1	B	118	ALA	47.6
1	L	118	ALA	47.1
5	F	359	SER	46.4
3	N	408	GLU	44.9

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Mol	Chain	Res	Type	RSRZ
3	D	854	ALA	44.7
3	D	852	ALA	44.5
2	M	729	LEU	44.1
3	N	407	VAL	43.0
2	C	223	ASP	41.7
2	C	194	VAL	41.4
1	L	94	LEU	40.8
2	C	729	LEU	40.3
5	P	414	ARG	39.5
3	D	855	HIS	38.7
5	F	90	GLN	38.0
2	C	1001	VAL	37.9
2	M	195	LEU	37.0
4	E	49	GLN	36.5
2	C	195	LEU	36.3
2	M	223	ASP	35.7
2	C	224	GLU	35.5
2	C	510	ALA	35.0
3	D	851	LEU	34.4
3	D	530	VAL	34.2
2	C	512	ARG	33.7
2	M	1	MET	33.5
3	N	404	GLU	33.3
1	L	189	ARG	33.2
5	F	419	ARG	33.2
2	C	1023	GLY	33.0
2	C	192	PRO	32.7
1	L	96	THR	32.7
3	D	407	VAL	32.4
3	D	531	ASP	32.3
1	L	119	ASP	32.2
5	F	421	PHE	32.1
2	M	730	SER	31.8
5	F	415	THR	31.1
2	C	763	GLY	31.0
3	D	850	LEU	30.8
5	F	387	GLY	30.7
2	C	509	ALA	30.5
5	F	386	VAL	30.3
2	C	1000	MET	30.2
2	M	115	LEU	30.2
5	P	416	ARG	30.1

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Mol	Chain	Res	Type	RSRZ
1	L	93	SER	29.9
2	M	1023	GLY	29.6
3	N	531	ASP	29.5
1	A	2	LEU	29.2
2	M	228	ALA	29.2
5	F	423	ASP	28.6
2	C	556	ASN	28.4
3	D	403	PHE	28.2
1	L	188	GLN	28.2
2	M	1001	VAL	28.2
2	C	196	LEU	28.1
2	C	180	GLY	28.0
5	P	186	HIS	27.8
1	L	190	THR	27.7
5	P	180	GLY	27.6
3	N	853	VAL	27.5
2	C	730	SER	27.4
5	F	394	ARG	27.3
2	M	18	LEU	27.1
3	N	870	GLY	27.0
2	C	1024	LYS	27.0
5	F	182	ALA	26.7
3	D	849	ALA	26.7
2	M	224	GLU	26.6
2	C	1	MET	26.4
2	M	191	PHE	26.4
5	P	182	ALA	26.4
2	M	1118	LYS	26.3
2	M	192	PRO	26.1
2	M	513	VAL	25.8
2	C	525	SER	25.8
5	P	359	SER	25.8
2	M	17	PRO	25.7
3	N	530	VAL	25.7
3	N	1070	TYR	25.6
3	D	67	ARG	25.3
3	D	440	VAL	25.3
1	B	159	LYS	25.2
2	C	82	GLU	25.2
2	C	182	VAL	25.1
5	P	419	ARG	24.7
1	A	155	LYS	24.7

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Mol	Chain	Res	Type	RSRZ
2	M	152	PRO	24.3
5	P	90	GLN	24.3
2	M	116	GLY	24.1
2	M	171	TRP	24.0
5	F	360	LYS	23.9
5	P	183	ALA	23.9
2	M	182	VAL	23.7
5	F	91	VAL	23.6
1	B	150	TYR	23.4
1	A	6	LEU	23.3
2	M	234	ALA	23.2
2	C	220	GLY	23.2
1	K	155	LYS	23.1
2	C	181	VAL	23.1
3	N	409	VAL	23.1
4	O	49	GLN	22.8
2	C	524	VAL	22.7
5	F	186	HIS	22.6
5	P	394	ARG	22.4
3	N	533	GLY	22.2
3	N	403	PHE	22.2
1	L	159	LYS	22.0
4	E	2	ALA	21.9
3	D	1505	ALA	21.9
3	D	405	ASP	21.9
2	C	20	GLU	21.9
3	N	1316	GLY	21.9
2	M	1024	LYS	21.8
2	M	375	SER	21.7
1	L	185	ARG	21.7
2	C	193	LEU	21.5
5	P	105	LYS	21.3
1	B	119	ASP	21.2
2	M	558	ALA	21.2
2	M	226	VAL	21.0
2	M	512	ARG	21.0
5	F	416	ARG	20.9
1	A	157	GLY	20.9
2	C	234	ALA	20.9
3	D	532	GLY	20.8
5	P	386	VAL	20.7
2	C	21	ILE	20.5

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Mol	Chain	Res	Type	RSRZ
1	B	188	GLN	20.5
5	F	102	LEU	20.4
5	P	179	GLU	20.4
3	N	532	GLY	20.2
2	C	559	LEU	20.2
3	D	588	GLY	20.1
2	C	514	VAL	20.1
3	N	1251	ASP	20.0
2	M	1000	MET	20.0
2	C	153	ALA	20.0
3	D	364	GLY	19.9
2	M	230	ARG	19.9
2	M	114	PHE	19.8
3	N	852	ALA	19.6
2	C	523	ILE	19.3
2	C	375	SER	19.2
3	N	854	ALA	19.2
5	F	393	THR	19.1
2	C	764	GLU	19.0
2	C	155	PRO	19.0
2	C	728	HIS	18.9
2	M	199	VAL	18.9
2	C	560	MET	18.8
5	P	421	PHE	18.8
2	M	560	MET	18.8
5	F	413	SER	18.8
5	F	183	ALA	18.7
1	A	156	HIS	18.6
2	C	17	PRO	18.6
1	B	126	ASP	18.6
3	N	534	ARG	18.6
3	D	696	HIS	18.6
1	L	91	ASN	18.5
2	M	233	GLU	18.4
3	N	696	HIS	18.2
2	C	165	LEU	18.2
2	C	511	GLU	18.2
2	M	510	ALA	18.1
2	M	221	LEU	18.1
2	C	168	ARG	18.1
2	C	765	SER	18.0
2	C	222	MET	18.0

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Mol	Chain	Res	Type	RSRZ
3	N	871	LYS	17.9
3	D	586	ARG	17.9
3	N	944	THR	17.9
2	C	981	GLU	17.8
2	C	555	ALA	17.8
2	M	377	PRO	17.8
2	M	180	GLY	17.8
2	C	16	PRO	17.8
3	N	238	PRO	17.7
2	M	555	ALA	17.7
1	B	189	ARG	17.6
5	F	414	ARG	17.6
2	M	559	LEU	17.6
2	C	198	ARG	17.5
3	D	533	GLY	17.5
5	P	102	LEU	17.4
2	M	181	VAL	17.4
2	M	95	TYR	17.4
3	N	640	HIS	17.2
3	N	239	GLY	17.2
2	C	18	LEU	17.1
3	D	640	HIS	17.1
1	A	153	ALA	17.1
3	D	1342	GLU	17.1
2	M	194	VAL	17.1
3	D	159	ARG	17.0
2	C	589	ARG	16.9
1	B	190	THR	16.8
2	C	116	GLY	16.8
5	P	89	GLY	16.8
1	L	90	LEU	16.8
3	D	585	GLY	16.8
3	D	1316	GLY	16.7
2	M	198	ARG	16.7
2	M	267	TYR	16.7
3	D	534	ARG	16.7
3	D	1341	PRO	16.6
2	M	219	GLN	16.6
1	K	31	GLY	16.6
2	M	231	PRO	16.6
3	N	858	VAL	16.6
2	C	221	LEU	16.6

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Mol	Chain	Res	Type	RSRZ
1	B	149	GLY	16.6
1	L	158	ILE	16.5
5	F	93	LEU	16.5
2	M	1117	SER	16.5
2	M	728	HIS	16.4
3	D	223	LEU	16.4
4	O	2	ALA	16.4
3	D	856	GLY	16.4
2	C	191	PHE	16.4
5	P	245	GLN	16.4
3	D	1251	ASP	16.3
3	D	505	SER	16.3
2	M	94	LEU	16.3
2	M	220	GLY	16.3
3	D	858	VAL	16.2
2	C	79	PRO	16.2
2	M	983	ILE	16.2
3	D	1408	ILE	16.2
2	C	171	TRP	16.0
2	C	43	GLY	16.0
2	C	169	GLY	16.0
1	L	191	ASP	16.0
2	C	464	LEU	16.0
1	B	117	VAL	15.9
3	D	417	PRO	15.9
2	M	590	ASP	15.9
3	D	1070	TYR	15.9
2	M	19	THR	15.7
2	C	1077	PRO	15.7
2	M	1002	GLU	15.7
1	L	157	GLY	15.7
5	F	245	GLN	15.7
2	C	663	ASN	15.5
2	C	1002	GLU	15.5
5	P	423	ASP	15.5
2	C	553	ASP	15.4
3	D	1503	VAL	15.4
2	M	235	LEU	15.4
3	N	137	PRO	15.3
3	N	1073	SER	15.3
3	N	697	GLY	15.3
2	M	113	VAL	15.3

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Mol	Chain	Res	Type	RSRZ
1	L	160	ASP	15.1
3	D	1340	GLY	15.1
5	F	105	LYS	15.1
2	C	379	GLU	15.1
2	C	166	PRO	15.1
5	F	121	GLY	15.0
2	M	48	PHE	15.0
3	N	225	LEU	15.0
3	N	163	TYR	15.0
2	M	21	ILE	14.9
1	B	148	VAL	14.9
1	A	126	ASP	14.9
2	M	196	LEU	14.9
5	P	135	ILE	14.7
5	F	89	GLY	14.7
2	M	981	GLU	14.7
3	N	1066	THR	14.6
2	C	238	LEU	14.6
2	C	152	PRO	14.6
3	D	157	GLU	14.6
2	M	155	PRO	14.6
2	C	558	ALA	14.5
1	L	184	THR	14.5
1	L	117	VAL	14.5
2	C	114	PHE	14.5
4	E	48	MET	14.4
2	C	1118	LYS	14.4
3	D	439	LEU	14.4
1	L	97	VAL	14.4
3	D	401	TYR	14.3
2	M	1077	PRO	14.3
3	D	717	GLN	14.3
3	D	843	PHE	14.3
2	M	16	PRO	14.3
1	K	30	ARG	14.3
2	C	251	ASP	14.3
2	C	376	ARG	14.2
1	B	125	PRO	14.2
2	M	1065	ALA	14.2
3	D	156	GLU	14.1
2	M	1062	GLY	14.1
1	L	162	ILE	14.1

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Mol	Chain	Res	Type	RSRZ
3	D	860	LEU	14.1
2	C	586	ARG	14.0
2	M	222	MET	14.0
2	M	523	ILE	13.9
5	F	180	GLY	13.9
2	C	931	GLY	13.9
3	N	595	GLY	13.9
3	N	717	GLN	13.9
1	B	46	SER	13.9
5	F	336	GLU	13.8
2	M	23	VAL	13.8
3	D	1504	GLU	13.8
2	C	204	GLN	13.7
2	M	153	ALA	13.7
3	N	855	HIS	13.6
1	K	32	PHE	13.6
3	N	597	ASP	13.6
1	B	158	ILE	13.6
3	N	867	ARG	13.5
1	A	154	GLU	13.5
3	N	849	ALA	13.4
2	C	1117	SER	13.4
3	N	859	ASP	13.4
2	C	15	LEU	13.4
2	C	522	VAL	13.4
2	M	172	ILE	13.4
3	D	430	ASP	13.3
2	C	717	LEU	13.3
2	M	238	LEU	13.3
2	M	144	PRO	13.2
1	A	159	LYS	13.2
2	C	19	THR	13.2
2	C	338	GLU	13.1
3	D	1337	GLU	13.1
2	C	504	GLU	13.1
2	C	762	LYS	13.1
2	C	461	VAL	13.0
3	N	850	LEU	13.0
2	M	251	ASP	13.0
5	P	334	PRO	13.0
2	M	556	ASN	13.0
5	F	334	PRO	13.0

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Mol	Chain	Res	Type	RSRZ
3	D	408	GLU	13.0
4	O	47	LYS	13.0
3	D	697	GLY	13.0
3	D	416	ALA	12.9
3	N	588	GLY	12.9
3	N	1315	ASP	12.9
2	M	164	PRO	12.8
3	N	872	ARG	12.8
3	N	156	GLU	12.8
1	K	126	ASP	12.7
2	C	47	ALA	12.7
2	C	24	GLU	12.7
5	F	391	GLY	12.7
2	M	163	ILE	12.6
3	D	857	ILE	12.6
1	K	128	HIS	12.6
5	P	145	PRO	12.6
5	P	413	SER	12.6
5	F	179	GLU	12.6
2	M	732	ALA	12.6
3	N	1317	ASP	12.6
5	P	176	ILE	12.6
2	M	232	GLU	12.6
3	D	188	GLY	12.5
2	C	167	LYS	12.5
1	A	16	GLN	12.4
3	N	641	GLN	12.4
3	N	235	ALA	12.3
2	C	590	ASP	12.3
1	B	120	VAL	12.3
1	L	126	ASP	12.3
4	O	48	MET	12.3
3	D	441	ARG	12.3
5	F	181	GLU	12.3
2	M	522	VAL	12.2
2	M	589	ARG	12.2
2	M	984	GLU	12.2
2	C	881	ASN	12.2
2	C	197	LEU	12.2
2	C	441	VAL	12.2
2	M	268	ASP	12.2
3	N	594	PRO	12.2

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Mol	Chain	Res	Type	RSRZ
2	C	507	ARG	12.1
3	N	1050	GLY	12.0
5	P	360	LYS	12.0
1	B	185	ARG	12.0
3	N	851	LEU	11.9
2	M	229	MET	11.9
2	C	983	ILE	11.9
3	D	154	THR	11.9
2	C	164	PRO	11.9
2	C	380	ALA	11.9
5	F	94	LEU	11.8
2	C	207	LEU	11.8
1	B	42	ARG	11.8
3	D	859	ASP	11.8
1	L	161	ARG	11.7
2	C	554	ASP	11.7
1	K	156	HIS	11.7
2	C	219	GLN	11.7
2	M	225	SER	11.6
1	B	191	ASP	11.6
5	F	145	PRO	11.6
1	B	157	GLY	11.6
2	C	335	THR	11.6
2	M	554	ASP	11.6
3	N	1341	PRO	11.6
5	F	390	PHE	11.5
2	C	227	PHE	11.5
2	C	23	VAL	11.5
2	C	731	GLU	11.5
3	N	1442	ASN	11.4
2	C	557	ARG	11.4
3	N	159	ARG	11.4
1	B	43	ILE	11.4
3	D	400	VAL	11.3
2	M	179	ASN	11.3
2	C	732	ALA	11.3
2	C	42	VAL	11.3
3	N	945	SER	11.3
3	N	1074	SER	11.3
4	O	3	GLU	11.3
2	M	441	VAL	11.3
2	M	380	ALA	11.3

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Mol	Chain	Res	Type	RSRZ
2	C	225	SER	11.2
5	F	146	GLY	11.2
3	D	438	ASP	11.1
1	A	128	HIS	11.1
1	L	95	GLN	11.1
2	M	1022	GLY	11.0
3	D	1073	SER	11.0
5	P	91	VAL	11.0
3	N	552	ASN	10.9
2	M	203	ASP	10.9
4	E	3	GLU	10.9
3	N	364	GLY	10.9
3	D	1336	LEU	10.9
5	F	87	GLU	10.8
2	M	553	ASP	10.8
3	D	944	THR	10.8
3	N	1342	GLU	10.8
2	C	377	PRO	10.8
1	B	162	ILE	10.8
2	M	169	GLY	10.7
2	M	79	PRO	10.7
5	P	101	GLU	10.7
2	M	265	ARG	10.7
2	C	25	SER	10.6
5	F	420	ASP	10.6
1	A	31	GLY	10.6
2	M	184	MET	10.6
2	M	1061	GLU	10.6
2	M	511	GLU	10.5
5	F	136	LEU	10.5
2	M	1025	ALA	10.5
2	C	226	VAL	10.5
3	D	529	GLN	10.5
5	F	335	ASP	10.5
5	P	103	ALA	10.5
3	D	1404	ASN	10.5
3	N	844	ALA	10.5
5	F	86	HIS	10.4
1	A	158	ILE	10.4
3	D	877	PRO	10.4
2	C	46	ALA	10.4
2	M	931	GLY	10.4

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Mol	Chain	Res	Type	RSRZ
2	M	550	LEU	10.4
3	N	857	ILE	10.4
2	M	166	PRO	10.4
3	D	1409	ALA	10.3
5	F	384	GLU	10.3
2	C	228	ALA	10.3
1	L	42	ARG	10.3
5	P	363	GLU	10.3
2	C	170	PRO	10.3
3	D	155	ASP	10.2
3	N	1337	GLU	10.2
3	N	224	ARG	10.2
3	N	1049	SER	10.1
2	C	115	LEU	10.1
3	N	236	TYR	10.1
2	C	81	ASP	10.1
1	B	184	THR	10.1
5	P	333	ILE	10.1
2	M	193	LEU	10.1
3	N	1285	GLU	10.1
2	C	208	ALA	10.1
5	P	384	GLU	10.1
5	F	281	GLU	10.0
3	D	867	ARG	10.0
2	M	557	ARG	10.0
2	C	508	ILE	10.0
1	K	157	GLY	9.9
3	D	1419	PRO	9.9
3	D	979	GLU	9.9
2	C	172	ILE	9.9
2	M	186	VAL	9.9
2	M	982	PRO	9.9
3	D	1049	SER	9.9
5	F	120	THR	9.9
3	N	1441	GLN	9.9
2	C	1022	GLY	9.9
2	C	675	ALA	9.9
2	M	49	ARG	9.9
4	O	94	PRO	9.8
5	F	241	TRP	9.8
5	P	94	LEU	9.8
3	D	238	PRO	9.8

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Mol	Chain	Res	Type	RSRZ
3	D	1400	VAL	9.8
5	F	249	ARG	9.8
2	C	1075	ASP	9.8
2	M	165	LEU	9.8
3	N	586	ARG	9.8
3	N	1408	ILE	9.7
3	D	365	ASP	9.7
3	N	505	SER	9.7
1	B	116	PRO	9.7
5	F	147	LEU	9.7
5	F	248	ASN	9.7
3	N	845	ASN	9.7
1	L	187	GLY	9.7
2	C	85	GLU	9.7
2	M	20	GLU	9.7
3	N	227	LEU	9.6
1	B	151	VAL	9.6
1	B	187	GLY	9.6
2	M	933	GLY	9.6
2	M	979	THR	9.6
3	D	946	GLY	9.5
5	F	95	THR	9.5
2	C	502	PRO	9.5
3	D	1317	ASP	9.5
5	P	144	ILE	9.4
2	M	379	GLU	9.3
3	N	1072	ILE	9.3
5	P	181	GLU	9.3
2	M	204	GLN	9.3
2	M	15	LEU	9.3
5	P	136	LEU	9.3
1	A	118	ALA	9.2
5	F	119	ILE	9.2
2	M	950	LEU	9.2
5	P	420	ASP	9.2
5	F	101	GLU	9.2
3	D	866	VAL	9.2
3	N	160	GLU	9.1
2	M	167	LYS	9.1
3	D	864	VAL	9.1
5	P	106	VAL	9.1
2	M	514	VAL	9.1

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Mol	Chain	Res	Type	RSRZ
5	P	339	PRO	9.1
3	N	856	GLY	9.1
3	N	440	VAL	9.0
2	M	586	ARG	9.0
1	A	152	PRO	9.0
2	M	444	PRO	9.0
3	D	695	ILE	9.0
3	N	237	LYS	9.0
5	P	104	ARG	9.0
1	L	92	PRO	9.0
3	N	1051	GLU	8.9
3	D	1065	LEU	8.9
2	C	28	ARG	8.9
2	C	150	PRO	8.9
2	M	675	ALA	8.9
5	F	98	GLU	8.9
5	P	332	PHE	8.9
3	D	641	GLN	8.9
3	D	699	VAL	8.8
1	A	106	PRO	8.8
5	F	185	GLN	8.8
2	C	515	ALA	8.8
3	D	1129	THR	8.8
3	N	1343	ALA	8.8
1	L	186	LEU	8.8
5	F	358	LEU	8.8
3	D	504	ASP	8.7
1	L	46	SER	8.7
2	C	445	GLU	8.7
2	M	266	ARG	8.7
3	N	430	ASP	8.7
3	N	869	MET	8.7
2	M	47	ALA	8.7
3	D	587	ARG	8.6
1	L	192	LEU	8.6
2	C	979	THR	8.6
2	M	1066	ALA	8.6
5	P	249	ARG	8.6
5	P	335	ASP	8.6
2	M	946	ARG	8.6
3	D	594	PRO	8.6
5	P	385	GLU	8.6

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Mol	Chain	Res	Type	RSRZ
5	P	241	TRP	8.5
2	M	1038	TRP	8.5
3	D	418	GLY	8.5
3	N	108	VAL	8.5
3	N	1340	GLY	8.5
3	D	108	VAL	8.5
5	F	122	LEU	8.5
2	C	199	VAL	8.5
2	C	1065	ALA	8.5
5	P	93	LEU	8.4
3	D	945	SER	8.4
2	M	1114	GLY	8.4
5	F	177	ALA	8.4
2	M	44	ILE	8.4
5	F	283	GLY	8.4
5	F	74	LYS	8.4
1	A	151	VAL	8.4
1	K	148	VAL	8.4
2	M	173	ASP	8.4
3	D	548	ILE	8.4
1	K	35	THR	8.4
2	M	378	LEU	8.4
2	C	183	SER	8.3
5	F	135	ILE	8.3
3	D	406	ASP	8.3
3	N	1287	GLU	8.3
3	D	415	VAL	8.3
1	K	77	GLU	8.2
2	M	374	ASN	8.2
2	M	976	ASP	8.2
2	C	933	GLY	8.2
2	M	344	PHE	8.2
3	D	442	ASN	8.2
2	C	235	LEU	8.2
3	N	860	LEU	8.2
3	D	552	ASN	8.1
1	B	45	LEU	8.1
1	A	108	GLU	8.1
2	M	677	MET	8.1
2	M	46	ALA	8.1
3	N	585	GLY	8.1
2	M	731	GLU	8.1

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Mol	Chain	Res	Type	RSRZ
3	D	980	MET	8.1
3	D	861	GLN	8.0
3	N	946	GLY	8.0
3	N	980	MET	8.0
2	C	984	GLU	8.0
2	C	263	ASP	8.0
3	N	843	PHE	8.0
5	P	343	ASP	8.0
2	C	202	TYR	7.9
3	N	868	TYR	7.9
2	C	550	LEU	7.9
5	F	144	ILE	7.9
3	N	555	LYS	7.9
2	C	41	ASN	7.9
3	D	1418	LYS	7.9
3	N	20	SER	7.9
2	C	267	TYR	7.9
5	F	355	GLU	7.9
2	M	881	ASN	7.9
3	D	776	GLU	7.9
3	D	1360	GLY	7.9
1	L	183	ASP	7.9
4	O	52	GLU	7.9
3	D	404	GLU	7.8
2	M	178	PRO	7.8
2	C	37	GLU	7.8
5	F	395	GLU	7.8
2	C	561	GLY	7.8
5	P	387	GLY	7.8
2	C	1113	GLU	7.8
5	P	86	HIS	7.8
3	N	410	SER	7.8
3	D	229	ALA	7.8
3	D	1442	ASN	7.8
3	N	1358	ALA	7.7
5	P	315	VAL	7.7
2	C	163	ILE	7.7
2	M	1064	ASN	7.7
5	P	177	ALA	7.7
2	M	464	LEU	7.7
3	N	947	ILE	7.7
2	C	501	THR	7.7

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Mol	Chain	Res	Type	RSRZ
2	M	1113	GLU	7.7
3	N	226	PRO	7.7
5	P	411	HIS	7.7
3	N	638	LYS	7.6
2	C	184	MET	7.6
3	N	556	LYS	7.6
3	N	979	GLU	7.6
3	D	1362	LYS	7.6
2	M	347	GLY	7.6
3	D	163	TYR	7.6
2	C	233	GLU	7.6
2	M	168	ARG	7.6
2	C	784	ASP	7.6
2	M	627	ARG	7.6
1	B	156	HIS	7.5
1	K	159	LYS	7.5
3	D	845	ASN	7.5
5	P	248	ASN	7.5
2	M	162	ILE	7.5
3	D	1074	SER	7.5
5	F	385	GLU	7.5
2	C	69	LEU	7.4
2	M	561	GLY	7.4
3	D	872	ARG	7.4
2	M	170	PRO	7.4
3	D	402	PRO	7.4
2	C	173	ASP	7.4
2	M	187	ASN	7.4
2	M	445	GLU	7.4
2	M	524	VAL	7.4
3	D	66	GLN	7.4
5	F	184	ARG	7.4
2	M	96	ALA	7.4
4	E	47	LYS	7.4
3	D	847	ASP	7.3
3	N	167	GLU	7.3
5	F	285	GLU	7.3
2	C	1003	ASP	7.3
2	C	378	LEU	7.3
2	C	463	GLU	7.3
3	D	583	ASP	7.3
2	C	885	ILE	7.3

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Mol	Chain	Res	Type	RSRZ
1	B	152	PRO	7.3
3	N	241	ILE	7.3
5	F	106	VAL	7.3
5	P	344	ALA	7.3
1	A	5	LYS	7.3
1	B	47	SER	7.3
3	N	1404	ASN	7.3
3	D	595	GLY	7.3
3	D	225	LEU	7.3
3	N	1400	VAL	7.3
2	C	255	ALA	7.2
3	D	582	LEU	7.2
3	D	69	GLU	7.2
5	P	355	GLU	7.2
2	M	980	GLY	7.2
2	M	151	ASP	7.2
3	N	873	LEU	7.2
3	D	808	THR	7.2
3	N	1129	THR	7.2
3	D	562	ALA	7.2
2	C	342	ASP	7.1
3	N	157	GLU	7.1
5	F	332	PHE	7.1
5	F	363	GLU	7.1
2	C	526	PRO	7.1
2	C	250	ARG	7.1
3	D	638	LYS	7.1
2	M	763	GLY	7.1
5	F	204	GLY	7.1
5	F	361	LEU	7.1
1	B	182	GLU	7.1
2	C	676	ILE	7.1
3	D	1072	ILE	7.0
1	L	120	VAL	7.0
5	P	281	GLU	7.0
2	M	123	GLU	7.0
3	D	1441	GLN	7.0
2	M	93	PRO	7.0
2	M	417	GLY	7.0
2	M	442	GLU	6.9
1	B	186	LEU	6.9
3	D	1210	SER	6.9

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Mol	Chain	Res	Type	RSRZ
3	D	233	LYS	6.9
5	P	184	ARG	6.9
2	M	676	ILE	6.9
2	C	716	LYS	6.9
2	C	1074	GLU	6.9
2	C	1078	GLU	6.8
2	C	149	THR	6.8
1	L	43	ILE	6.8
3	N	1065	LEU	6.8
3	N	96	ALA	6.8
3	D	848	GLU	6.8
3	D	579	ASP	6.8
2	M	252	LYS	6.8
3	D	878	GLY	6.8
3	N	1068	LEU	6.8
1	K	151	VAL	6.8
3	N	121	THR	6.8
2	M	183	SER	6.8
2	M	117	HIS	6.8
5	P	185	GLN	6.8
1	K	154	GLU	6.7
3	D	844	ALA	6.7
3	N	230	TRP	6.7
2	C	446	GLY	6.7
2	C	265	ARG	6.7
3	N	223	LEU	6.7
3	N	1099	VAL	6.7
5	P	329	TYR	6.7
2	C	1025	ALA	6.7
3	N	94	GLU	6.7
3	N	695	ILE	6.7
1	L	98	THR	6.7
3	D	1315	ASP	6.7
3	D	756	GLN	6.7
2	C	86	LYS	6.7
3	N	1252	ILE	6.7
5	P	393	THR	6.7
3	N	1210	SER	6.7
5	P	141	VAL	6.7
2	M	1076	VAL	6.6
3	N	535	PHE	6.6
2	C	381	ALA	6.6

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Mol	Chain	Res	Type	RSRZ
2	C	1076	VAL	6.6
2	C	528	GLU	6.6
3	N	846	PRO	6.5
3	D	235	ALA	6.5
3	D	870	GLY	6.5
1	A	107	LYS	6.5
3	D	547	LEU	6.5
3	D	1050	GLY	6.5
3	N	1048	PRO	6.5
1	B	192	LEU	6.5
5	F	422	LEU	6.5
2	C	884	GLN	6.5
2	M	236	ILE	6.5
2	C	988	VAL	6.5
3	N	1069	GLU	6.5
2	M	1075	ASP	6.5
2	C	761	PHE	6.5
3	D	138	LYS	6.4
5	P	75	ILE	6.4
2	C	179	ASN	6.4
1	B	160	ASP	6.4
2	M	562	SER	6.4
1	K	152	PRO	6.4
2	C	123	GLU	6.4
2	M	2	GLU	6.4
3	D	20	SER	6.4
2	C	144	PRO	6.4
3	D	766	ALA	6.4
1	K	1	MET	6.4
2	C	674	VAL	6.4
3	D	1239	ARG	6.3
3	N	1014	ASN	6.3
5	F	92	PRO	6.3
2	C	80	GLN	6.3
2	C	345	ARG	6.3
2	M	541	SER	6.3
5	P	362	SER	6.3
2	C	349	ALA	6.3
2	M	1119	ARG	6.3
1	B	41	ARG	6.3
2	C	232	GLU	6.3
5	F	338	LEU	6.3

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Mol	Chain	Res	Type	RSRZ
2	C	350	ARG	6.3
3	D	958	GLU	6.3
3	N	1344	VAL	6.3
3	D	237	LYS	6.3
3	N	154	THR	6.3
3	N	1440	PHE	6.3
2	C	932	GLU	6.3
3	D	222	GLY	6.2
2	C	249	LYS	6.2
1	K	47	SER	6.2
3	D	865	THR	6.2
1	K	34	VAL	6.2
1	B	155	LYS	6.2
3	N	1138	ALA	6.2
3	N	411	THR	6.2
2	M	461	VAL	6.2
3	D	1287	GLU	6.2
1	B	127	LEU	6.2
5	P	98	GLU	6.2
3	N	169	TYR	6.2
2	C	14	PRO	6.2
2	M	350	ARG	6.1
3	D	1066	THR	6.1
3	D	719	VAL	6.1
3	N	1336	LEU	6.1
3	D	121	THR	6.1
3	N	528	VAL	6.1
5	F	262	VAL	6.1
3	N	1239	ARG	6.1
5	P	348	SER	6.1
3	N	1437	ALA	6.1
1	A	216	GLU	6.1
3	D	224	ARG	6.1
1	K	67	THR	6.1
3	N	18	ILE	6.1
5	F	356	LYS	6.1
3	N	1286	THR	6.1
5	P	336	GLU	6.0
3	N	948	THR	6.0
2	C	462	ASP	6.0
3	N	1362	LYS	6.0
2	C	374	ASN	6.0

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Mol	Chain	Res	Type	RSRZ
3	D	241	ILE	6.0
5	F	339	PRO	6.0
3	N	1443	THR	6.0
3	N	1444	THR	6.0
1	A	148	VAL	6.0
3	N	866	VAL	6.0
3	N	791	TYR	6.0
3	D	1252	ILE	6.0
3	N	909	ASN	6.0
2	C	844	GLY	5.9
2	M	82	GLU	5.9
4	E	94	PRO	5.9
2	C	49	ARG	5.9
3	D	760	ARG	5.9
4	E	51	LEU	5.9
5	P	417	LYS	5.9
1	A	32	PHE	5.9
3	D	443	VAL	5.9
2	C	782	ALA	5.9
2	C	1114	GLY	5.9
2	M	844	GLY	5.9
2	M	354	GLY	5.9
3	D	137	PRO	5.8
3	D	1444	THR	5.8
2	C	706	GLU	5.8
2	M	145	GLY	5.8
5	P	108	GLU	5.8
2	M	185	LYS	5.8
2	C	346	VAL	5.8
2	M	542	VAL	5.8
3	D	106	LYS	5.8
2	C	662	GLU	5.8
3	D	184	GLU	5.8
2	C	796	GLU	5.8
2	C	231	PRO	5.7
3	N	21	TRP	5.7
2	C	517	ARG	5.7
2	C	100	LEU	5.7
2	M	793	PRO	5.7
5	P	340	SER	5.7
2	M	272	ALA	5.7
3	D	1343	ALA	5.7

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Mol	Chain	Res	Type	RSRZ
3	D	698	LYS	5.7
1	L	77	GLU	5.7
2	M	1116	ALA	5.7
3	N	796	ARG	5.7
5	P	87	GLU	5.7
3	D	558	LEU	5.6
2	M	43	GLY	5.6
2	C	1004	LYS	5.6
2	C	145	GLY	5.6
4	E	95	GLY	5.6
3	D	675	ARG	5.6
2	C	218	VAL	5.6
5	F	392	VAL	5.6
3	D	1128	VAL	5.6
1	L	45	LEU	5.6
5	P	302	LYS	5.6
3	D	1502	ALA	5.6
3	N	516	ALA	5.6
5	F	388	ALA	5.6
5	P	338	LEU	5.6
2	C	987	ILE	5.6
1	L	125	PRO	5.5
2	C	562	SER	5.5
3	N	93	ILE	5.5
2	C	1112	PHE	5.5
2	C	465	GLY	5.5
3	N	561	GLY	5.5
2	C	786	LYS	5.5
2	C	673	LEU	5.5
3	D	240	GLU	5.5
3	D	1127	GLU	5.5
4	E	59	ASN	5.5
3	D	1314	LYS	5.5
1	K	216	GLU	5.5
2	C	443	THR	5.5
5	F	389	PHE	5.5
4	O	44	GLU	5.5
4	O	95	GLY	5.5
2	M	24	GLU	5.5
2	C	603	VAL	5.5
3	N	1137	ARG	5.5
2	C	64	LEU	5.5

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Mol	Chain	Res	Type	RSRZ
5	P	361	LEU	5.5
2	M	1079	PRO	5.5
2	M	77	PRO	5.4
3	D	1288	GLU	5.4
3	N	675	ARG	5.4
3	N	1047	LYS	5.4
3	D	764	LEU	5.4
2	M	778	PHE	5.4
2	M	45	GLN	5.4
3	D	965	GLU	5.4
2	M	1115	LEU	5.4
2	C	83	CYS	5.4
3	N	365	ASP	5.4
2	C	444	PRO	5.4
2	C	203	ASP	5.4
3	N	138	LYS	5.4
1	L	216	GLU	5.4
2	M	876	VAL	5.4
3	N	415	VAL	5.4
2	C	1027	PHE	5.4
5	F	357	ALA	5.3
1	K	219	ARG	5.3
3	N	414	ARG	5.3
1	K	110	LYS	5.3
2	C	252	LYS	5.3
5	F	412	GLU	5.3
3	N	504	ASP	5.3
3	D	551	ASN	5.3
2	C	876	VAL	5.3
5	P	140	ARG	5.3
4	O	51	LEU	5.3
3	N	583	ASP	5.3
2	M	376	ARG	5.3
5	F	405	LEU	5.3
1	A	30	ARG	5.3
1	B	112	ARG	5.3
3	N	1013	GLU	5.2
5	P	92	PRO	5.2
1	K	153	ALA	5.2
2	C	596	TYR	5.2
3	D	189	GLN	5.2
3	N	122	GLU	5.2

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Mol	Chain	Res	Type	RSRZ
3	N	1071	PHE	5.2
2	M	603	VAL	5.1
2	M	782	ALA	5.1
3	D	556	LYS	5.1
5	P	322	GLY	5.1
1	K	66	SER	5.1
2	C	1080	SER	5.1
3	D	1480	PHE	5.1
2	C	417	GLY	5.1
2	C	552	HIS	5.1
1	B	161	ARG	5.1
2	C	268	ASP	5.1
3	D	862	ASP	5.1
2	C	817	PRO	5.1
2	M	112	GLU	5.1
3	D	230	TRP	5.1
2	M	319	GLY	5.1
3	D	947	ILE	5.1
5	P	283	GLY	5.1
2	C	563	ASN	5.1
2	M	1042	ALA	5.1
3	N	551	ASN	5.1
3	N	861	GLN	5.1
2	C	727	PRO	5.1
2	M	618	GLY	5.0
3	N	1325	LEU	5.0
2	C	457	ALA	5.0
3	N	529	GLN	5.0
2	C	66	LEU	5.0
2	C	775	ARG	5.0
2	C	649	VAL	5.0
3	N	719	VAL	5.0
5	F	340	SER	5.0
2	C	665	PHE	5.0
5	F	75	ILE	5.0
5	P	244	ARG	5.0
2	M	348	LEU	5.0
1	A	3	ASP	5.0
3	N	1360	GLY	5.0
5	P	109	GLY	5.0
2	M	987	ILE	5.0
2	C	982	PRO	5.0

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Mol	Chain	Res	Type	RSRZ
2	M	674	VAL	5.0
2	C	50	GLU	5.0
2	C	162	ILE	5.0
5	P	297	PRO	5.0
2	M	201	GLY	4.9
3	D	107	ASP	4.9
3	D	797	LYS	4.9
2	C	460	ARG	4.9
2	M	237	ARG	4.9
1	K	33	GLY	4.9
4	E	50	THR	4.9
2	C	359	MET	4.9
2	M	42	VAL	4.9
2	C	237	ARG	4.9
2	C	722	ILE	4.9
3	D	949	ILE	4.9
3	N	764	LEU	4.9
5	P	88	ILE	4.9
5	F	279	GLN	4.9
3	N	1434	TRP	4.9
2	C	151	ASP	4.9
3	N	1314	LYS	4.9
3	D	95	LEU	4.9
1	L	156	HIS	4.9
2	M	110	GLU	4.9
3	N	1003	VAL	4.9
2	C	624	PRO	4.9
2	M	41	ASN	4.9
2	M	544	THR	4.9
1	B	90	LEU	4.8
2	M	351	LEU	4.8
3	D	578	VAL	4.8
1	A	130	ALA	4.8
2	C	440	PRO	4.8
2	M	381	ALA	4.8
2	M	706	GLU	4.8
1	L	219	ARG	4.8
2	M	14	PRO	4.8
3	D	771	SER	4.8
3	N	1439	SER	4.8
2	M	845	ASN	4.8
2	C	6	PHE	4.8

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Mol	Chain	Res	Type	RSRZ
2	M	100	LEU	4.8
2	C	447	ALA	4.8
2	M	563	ASN	4.8
2	C	341	THR	4.8
2	M	932	GLU	4.8
3	N	1039	CYS	4.8
2	C	1059	ASP	4.8
2	C	795	GLY	4.8
5	F	103	ALA	4.8
1	L	41	ARG	4.8
3	D	948	THR	4.8
3	N	1223	ILE	4.8
1	A	4	SER	4.8
3	N	240	GLU	4.8
2	C	793	PRO	4.8
3	D	226	PRO	4.8
3	N	58	CYS	4.7
5	F	418	LEU	4.7
3	D	765	SER	4.7
2	M	1043	TYR	4.7
1	K	127	LEU	4.7
3	D	58	CYS	4.7
3	N	1128	VAL	4.7
3	D	604	THR	4.7
3	N	22	SER	4.7
3	D	767	HIS	4.7
3	D	1003	VAL	4.7
1	A	217	ILE	4.7
2	C	283	ILE	4.7
5	P	321	ILE	4.7
3	N	797	LYS	4.7
3	N	97	THR	4.7
2	C	766	GLU	4.7
3	D	715	ALA	4.7
3	N	1064	GLY	4.7
1	L	123	MET	4.7
2	M	64	LEU	4.7
2	C	332	ARG	4.7
3	N	715	ALA	4.7
3	D	1004	THR	4.7
1	A	116	PRO	4.7
3	D	772	PRO	4.7

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Mol	Chain	Res	Type	RSRZ
3	D	379	ALA	4.7
2	C	201	GLY	4.7
1	A	213	GLN	4.7
2	M	9	ILE	4.7
2	M	101	ILE	4.7
2	C	58	ASP	4.6
2	C	217	LEU	4.6
2	C	1012	PRO	4.6
5	F	104	ARG	4.6
5	F	139	ALA	4.6
3	D	158	TYR	4.6
1	K	147	GLY	4.6
2	C	319	GLY	4.6
1	B	183	ASP	4.6
1	B	96	THR	4.6
3	N	95	LEU	4.6
5	P	204	GLY	4.6
2	M	1026	GLN	4.6
1	L	121	GLU	4.6
3	D	102	ILE	4.6
5	F	280	GLN	4.6
3	N	692	GLU	4.6
3	N	596	SER	4.6
2	C	209	ARG	4.6
3	N	1007	VAL	4.6
5	P	95	THR	4.6
2	C	320	HIS	4.5
3	N	801	GLY	4.5
2	C	77	PRO	4.5
2	M	949	LYS	4.5
2	M	197	LEU	4.5
5	P	410	TYR	4.5
2	M	111	ASP	4.5
2	M	175	GLU	4.5
3	N	705	ALA	4.5
3	D	1325	LEU	4.5
1	K	29	GLU	4.5
3	N	149	LYS	4.5
5	F	411	HIS	4.5
5	F	174	LEU	4.5
2	C	333	ILE	4.5
5	F	253	ASP	4.5

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Mol	Chain	Res	Type	RSRZ
2	C	823	VAL	4.5
5	P	201	LYS	4.5
3	D	589	ALA	4.5
3	N	965	GLU	4.5
2	C	503	LEU	4.5
1	A	110	LYS	4.5
5	P	138	SER	4.5
2	C	664	GLY	4.5
5	P	358	LEU	4.5
2	C	334	ARG	4.5
2	C	1116	ALA	4.4
3	D	28	LYS	4.4
2	M	353	ARG	4.4
2	M	92	ALA	4.4
2	M	540	PHE	4.4
2	C	811	PRO	4.4
3	N	877	PRO	4.4
2	C	883	GLY	4.4
3	D	874	GLU	4.4
1	L	155	LYS	4.4
2	C	882	LEU	4.4
2	C	989	VAL	4.4
2	M	283	ILE	4.4
3	D	475	LYS	4.4
3	N	27	GLU	4.4
4	O	7	ASP	4.4
3	D	1420	LEU	4.4
5	P	298	GLY	4.4
2	M	784	ASP	4.4
3	N	1386	ASP	4.4
2	C	613	VAL	4.4
4	O	78	ASN	4.4
2	C	1066	ALA	4.4
2	C	143	SER	4.4
3	N	1067	VAL	4.4
4	E	52	GLU	4.4
4	O	77	GLU	4.4
3	N	1409	ALA	4.4
5	F	176	ILE	4.4
2	M	1004	LYS	4.3
3	D	909	ASN	4.3
2	M	988	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
3	D	187	LYS	4.3
2	C	974	LEU	4.3
2	M	249	LYS	4.3
5	P	147	LEU	4.3
2	M	716	LYS	4.3
2	C	78	PHE	4.3
2	C	585	GLU	4.3
3	D	239	GLY	4.3
4	O	53	GLY	4.3
3	D	796	ARG	4.3
3	N	604	THR	4.3
2	C	843	HIS	4.3
2	C	604	ALA	4.3
2	C	70	GLU	4.3
3	D	167	GLU	4.3
3	D	1051	GLU	4.3
3	N	1326	THR	4.3
3	D	1501	GLU	4.3
2	C	1079	PRO	4.3
3	D	1007	VAL	4.2
2	C	101	ILE	4.2
1	A	109	VAL	4.2
3	N	78	VAL	4.2
3	N	24	GLY	4.2
2	C	999	HIS	4.2
2	C	29	ALA	4.2
3	D	615	ARG	4.2
3	N	1324	PRO	4.2
3	N	943	THR	4.2
3	D	1345	GLU	4.2
2	C	253	ALA	4.2
2	M	515	ALA	4.2
2	M	652	GLY	4.2
3	N	969	ARG	4.2
5	F	343	ASP	4.2
5	F	417	LYS	4.2
3	D	950	GLY	4.2
1	L	199	ILE	4.2
4	O	4	PRO	4.2
3	D	122	GLU	4.1
2	M	149	THR	4.1
3	D	718	PRO	4.1

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Mol	Chain	Res	Type	RSRZ
1	L	150	TYR	4.1
2	C	627	ARG	4.1
2	M	875	GLY	4.1
1	L	138	LEU	4.1
3	N	519	VAL	4.1
2	C	880	MET	4.1
2	M	320	HIS	4.1
5	P	357	ALA	4.1
3	D	1014	ASN	4.1
3	N	773	ALA	4.1
1	A	14	ARG	4.1
3	D	1119	SER	4.1
2	M	346	VAL	4.1
3	D	409	VAL	4.1
2	M	509	ALA	4.1
2	M	25	SER	4.1
2	M	69	LEU	4.1
3	D	70	GLY	4.1
5	F	213	ILE	4.1
2	C	723	THR	4.1
1	K	150	TYR	4.1
3	D	639	LEU	4.1
2	M	460	ARG	4.1
1	B	92	PRO	4.0
2	M	596	TYR	4.0
3	N	401	TYR	4.0
2	C	718	GLY	4.0
2	M	345	ARG	4.0
2	M	775	ARG	4.0
3	D	775	GLY	4.0
5	P	187	LEU	4.0
2	C	756	VAL	4.0
3	N	1273	VAL	4.0
3	N	1004	THR	4.0
1	B	4	SER	4.0
1	K	93	SER	4.0
2	C	372	LEU	4.0
4	O	73	LEU	4.0
2	M	722	ILE	4.0
2	M	1078	GLU	4.0
3	N	203	ALA	4.0
3	N	1159	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
3	N	1455	LYS	4.0
2	M	65	VAL	4.0
1	B	121	GLU	4.0
2	C	154	ARG	4.0
3	N	206	ARG	4.0
2	C	185	LYS	4.0
2	C	618	GLY	4.0
3	N	1272	ALA	4.0
2	M	85	GLU	4.0
5	P	412	GLU	4.0
3	D	633	VAL	4.0
2	C	816	LYS	4.0
3	N	28	LYS	4.0
1	K	108	GLU	4.0
2	M	161	SER	4.0
2	C	241	LEU	4.0
2	M	604	ALA	4.0
2	M	525	SER	4.0
3	N	1274	ILE	4.0
3	N	554	LEU	3.9
3	D	832	ARG	3.9
1	A	131	THR	3.9
1	B	128	HIS	3.9
2	M	239	PHE	3.9
2	M	898	GLY	3.9
3	N	560	GLN	3.9
3	N	925	GLU	3.9
2	C	781	LYS	3.9
3	D	846	PRO	3.9
3	N	1077	ALA	3.9
2	C	495	THR	3.9
3	D	943	THR	3.9
2	M	68	PHE	3.9
2	C	65	VAL	3.9
2	C	102	HIS	3.9
1	B	216	GLU	3.9
2	M	454	SER	3.9
3	D	774	SER	3.9
2	C	178	PRO	3.9
2	M	765	SER	3.9
3	D	22	SER	3.9
3	N	608	SER	3.9

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Mol	Chain	Res	Type	RSRZ
5	F	196	VAL	3.9
1	K	14	ARG	3.9
2	M	1035	MET	3.9
2	C	242	LEU	3.9
2	C	205	GLU	3.8
2	C	980	GLY	3.8
3	N	506	GLY	3.8
2	C	841	ASN	3.8
2	C	54	ILE	3.8
5	F	400	ILE	3.8
1	B	142	VAL	3.8
2	C	742	VAL	3.8
1	B	80	LEU	3.8
1	A	87	VAL	3.8
2	C	601	GLY	3.8
2	C	777	ILE	3.8
3	N	1017	PHE	3.8
5	F	187	LEU	3.8
2	C	1119	ARG	3.8
5	F	246	ALA	3.8
3	D	232	GLU	3.8
2	C	652	GLY	3.8
2	M	150	PRO	3.8
3	N	212	ARG	3.8
2	C	909	ALA	3.8
3	D	1361	VAL	3.8
3	N	1035	ILE	3.8
2	C	141	HIS	3.8
5	P	111	GLU	3.8
2	C	946	ARG	3.8
2	C	757	GLY	3.8
3	N	1016	PRO	3.8
3	N	1419	PRO	3.8
4	O	42	PRO	3.8
3	D	1077	ALA	3.8
3	D	1439	SER	3.8
1	A	185	ARG	3.8
4	O	50	THR	3.8
2	C	998	TYR	3.8
3	D	1303	TYR	3.8
4	O	11	GLY	3.8
3	N	1345	GLU	3.8

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Mol	Chain	Res	Type	RSRZ
3	N	752	SER	3.8
2	C	879	ARG	3.8
3	N	1480	PHE	3.8
2	C	715	THR	3.8
2	M	278	GLU	3.8
3	N	798	GLU	3.8
3	N	63	TYR	3.7
1	L	88	ARG	3.7
3	N	848	GLU	3.7
2	C	829	GLN	3.7
3	D	608	SER	3.7
3	D	516	ALA	3.7
3	D	1099	VAL	3.7
5	F	109	GLY	3.7
3	N	1100	ASP	3.7
5	F	205	ARG	3.7
3	D	234	GLU	3.7
1	L	47	SER	3.7
3	N	1303	TYR	3.7
5	F	133	ALA	3.7
1	K	87	VAL	3.7
2	C	646	GLY	3.7
3	D	78	VAL	3.7
1	L	217	ILE	3.7
2	M	873	PRO	3.7
3	D	773	ALA	3.7
1	K	149	GLY	3.7
3	N	981	GLY	3.7
2	M	613	VAL	3.7
3	N	1361	VAL	3.7
5	P	210	LEU	3.7
2	M	72	ARG	3.7
1	A	127	LEU	3.7
2	M	884	GLN	3.7
3	D	205	TYR	3.7
3	N	1312	LEU	3.7
2	M	54	ILE	3.7
2	C	845	ASN	3.7
5	P	121	GLY	3.7
1	L	29	GLU	3.7
3	D	203	ALA	3.6
2	C	785	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
3	N	699	VAL	3.6
4	O	14	ASP	3.6
3	N	19	ARG	3.6
3	D	123	LEU	3.6
3	D	236	TYR	3.6
3	N	1456	LYS	3.6
1	K	130	ALA	3.6
2	M	947	ALA	3.6
5	F	404	ALA	3.6
2	C	950	LEU	3.6
3	D	554	LEU	3.6
5	P	146	GLY	3.6
2	C	541	SER	3.6
2	M	998	TYR	3.6
5	F	230	LYS	3.6
1	K	142	VAL	3.6
2	M	359	MET	3.6
2	M	1040	LEU	3.6
3	N	1333	HIS	3.6
5	P	84	TYR	3.6
1	B	219	ARG	3.6
1	L	80	LEU	3.6
3	D	160	GLU	3.6
3	D	1292	VAL	3.6
3	N	759	ALA	3.6
2	M	75	GLU	3.6
3	N	847	ASP	3.6
2	M	440	PRO	3.6
2	M	871	LEU	3.6
3	N	972	LEU	3.6
4	O	54	LEU	3.6
3	N	1000	THR	3.6
2	M	507	ARG	3.6
2	C	710	ILE	3.6
2	C	1062	GLY	3.6
5	P	422	LEU	3.5
3	N	1227	GLN	3.5
5	P	74	LYS	3.5
2	C	439	CYS	3.5
1	B	124	ASN	3.5
1	K	80	LEU	3.5
2	C	186	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
2	C	936	VAL	3.5
2	M	66	LEU	3.5
2	M	649	VAL	3.5
5	P	118	GLU	3.5
3	D	555	LYS	3.5
3	D	896	ALA	3.5
2	M	102	HIS	3.5
3	D	1440	PHE	3.5
4	E	44	GLU	3.5
5	F	333	ILE	3.5
5	F	402	ASN	3.5
5	F	141	VAL	3.5
2	M	1045	ALA	3.5
3	D	561	GLY	3.5
3	N	1438	ALA	3.5
3	D	1069	GLU	3.5
2	C	1064	ASN	3.5
5	P	405	LEU	3.5
1	B	3	ASP	3.5
2	C	797	GLY	3.5
3	D	632	VAL	3.5
5	F	117	SER	3.5
5	F	192	LEU	3.5
3	D	94	GLU	3.5
3	D	981	GLY	3.5
3	N	536	ALA	3.5
2	C	647	GLN	3.5
3	N	808	THR	3.5
3	N	962	GLN	3.5
2	M	764	GLU	3.5
1	L	21	GLY	3.5
3	N	1040	GLY	3.5
2	C	254	VAL	3.5
3	N	1131	SER	3.5
3	D	759	ALA	3.5
2	M	217	LEU	3.4
3	D	1068	LEU	3.4
5	F	312	GLN	3.4
1	K	81	ASN	3.4
1	B	140	MET	3.4
2	M	895	TYR	3.4
2	M	939	ARG	3.4

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Mol	Chain	Res	Type	RSRZ
2	M	465	GLY	3.4
2	M	601	GLY	3.4
4	E	68	LEU	3.4
3	D	1443	THR	3.4
3	N	233	LYS	3.4
2	C	741	GLY	3.4
5	P	173	TYR	3.4
3	N	558	LEU	3.4
3	N	1041	LEU	3.4
3	D	1000	THR	3.4
3	N	92	HIS	3.4
3	D	871	LYS	3.4
1	L	23	PHE	3.4
3	N	59	ALA	3.4
2	C	875	GLY	3.4
2	M	156	GLY	3.4
2	M	1034	GLU	3.4
1	K	65	PHE	3.4
3	N	242	LEU	3.4
2	C	368	THR	3.4
5	P	222	ARG	3.4
2	M	617	ASP	3.4
2	M	936	VAL	3.4
2	C	367	LEU	3.4
2	C	500	ASN	3.4
2	C	625	LEU	3.4
5	P	139	ALA	3.4
2	M	332	ARG	3.4
5	F	138	SER	3.4
3	N	1169	ASP	3.3
1	B	38	ASN	3.3
2	C	506	ASN	3.3
1	A	214	ALA	3.3
2	M	646	GLY	3.3
3	D	768	ASN	3.3
2	M	1074	GLU	3.3
1	B	58	ILE	3.3
2	C	27	ARG	3.3
3	D	1273	VAL	3.3
3	D	1379	VAL	3.3
2	M	369	PRO	3.3
3	N	718	PRO	3.3

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Mol	Chain	Res	Type	RSRZ
4	E	14	ASP	3.3
3	D	21	TRP	3.3
2	M	733	ALA	3.3
3	D	59	ALA	3.3
1	B	138	LEU	3.3
5	F	167	PRO	3.3
5	F	202	TYR	3.3
5	P	107	GLU	3.3
3	N	767	HIS	3.3
2	M	318	PRO	3.3
2	M	570	PRO	3.3
2	M	459	ALA	3.3
3	D	437	VAL	3.3
3	D	886	VAL	3.3
1	L	197	LEU	3.3
2	C	737	LEU	3.3
2	M	207	LEU	3.3
3	D	1008	PHE	3.3
5	F	346	THR	3.3
1	B	93	SER	3.3
3	D	1324	PRO	3.3
3	N	1158	VAL	3.3
2	M	200	LEU	3.3
2	M	455	LEU	3.3
3	D	899	LEU	3.3
1	A	20	TYR	3.3
5	F	143	HIS	3.3
5	P	143	HIS	3.3
5	P	213	ILE	3.3
1	A	7	LYS	3.3
1	B	39	PRO	3.2
3	N	441	ARG	3.2
5	F	328	PHE	3.2
3	N	810	GLU	3.2
1	K	194	LYS	3.2
3	N	1330	ILE	3.2
3	D	1184	GLN	3.2
5	P	246	ALA	3.2
2	C	156	GLY	3.2
2	M	1044	GLY	3.2
3	N	126	VAL	3.2
3	N	106	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
3	D	1358	ALA	3.2
3	N	1338	ALA	3.2
2	M	879	ARG	3.2
3	D	631	ILE	3.2
2	M	883	GLY	3.2
2	C	743	VAL	3.2
3	D	1209	LEU	3.2
3	N	73	CYS	3.2
3	N	1096	ARG	3.2
4	O	32	ARG	3.2
4	E	43	GLU	3.2
2	C	521	PRO	3.2
3	D	1330	ILE	3.2
3	N	548	ILE	3.2
3	N	1503	VAL	3.2
5	P	203	THR	3.2
1	B	207	PRO	3.2
2	C	108	ILE	3.2
4	O	6	ILE	3.2
2	C	544	THR	3.2
5	F	203	THR	3.2
1	L	140	MET	3.2
3	D	726	ILE	3.2
3	D	1274	ILE	3.2
1	A	227	ASN	3.2
5	F	173	TYR	3.2
3	N	1328	GLY	3.2
3	D	755	ALA	3.2
2	C	442	GLU	3.2
2	C	478	VAL	3.2
3	N	799	LYS	3.2
3	N	1421	LEU	3.2
3	N	1429	LEU	3.2
2	C	602	GLU	3.1
2	M	959	PRO	3.1
3	D	1138	ALA	3.1
3	N	1418	LYS	3.1
5	F	342	VAL	3.1
1	L	122	ILE	3.1
3	N	178	LEU	3.1
1	B	135	GLY	3.1
2	C	63	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
2	C	629	TYR	3.1
3	N	136	ASP	3.1
2	C	459	ALA	3.1
2	C	767	PRO	3.1
4	O	55	PHE	3.1
5	F	170	HIS	3.1
2	M	1080	SER	3.1
3	D	753	SER	3.1
3	N	1294	VAL	3.1
3	N	1486	VAL	3.1
4	E	96	GLU	3.1
2	M	668	LEU	3.1
4	O	68	LEU	3.1
2	C	733	ALA	3.1
2	M	6	PHE	3.1
3	D	770	LEU	3.1
5	F	369	LEU	3.1
5	P	119	ILE	3.1
3	D	961	LYS	3.1
1	A	35	THR	3.1
1	B	199	ILE	3.1
1	L	143	ARG	3.1
1	A	105	GLY	3.1
2	C	7	GLY	3.1
2	M	63	GLY	3.1
2	M	275	TYR	3.1
3	N	155	ASP	3.1
1	K	76	VAL	3.1
3	D	519	VAL	3.1
3	D	895	VAL	3.1
3	D	584	ASN	3.1
2	M	250	ARG	3.0
3	D	969	ARG	3.0
3	N	67	ARG	3.0
5	F	84	TYR	3.0
5	F	376	ILE	3.0
2	C	127	PHE	3.0
2	C	540	PHE	3.0
2	M	742	VAL	3.0
3	D	868	TYR	3.0
3	N	1481	VAL	3.0
4	O	39	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	220	GLU	3.0
1	K	6	LEU	3.0
3	D	1326	THR	3.0
3	N	77	GLY	3.0
3	N	229	ALA	3.0
3	N	416	ALA	3.0
3	D	1456	LYS	3.0
5	P	351	SER	3.0
3	D	27	GLU	3.0
3	D	1294	VAL	3.0
3	D	887	ALA	3.0
3	N	741	ASP	3.0
3	N	862	ASP	3.0
3	N	26	VAL	3.0
2	C	888	THR	3.0
5	P	418	LEU	3.0
2	C	850	ALA	3.0
5	P	388	ALA	3.0
2	C	903	SER	3.0
3	D	752	SER	3.0
3	N	1410	GLU	3.0
1	A	142	VAL	3.0
1	B	53	VAL	3.0
1	L	142	VAL	3.0
2	C	135	VAL	3.0
3	N	517	VAL	3.0
2	C	1021	LEU	3.0
2	C	895	TYR	3.0
2	M	74	GLY	3.0
2	M	647	GLN	3.0
2	C	668	LEU	3.0
2	M	372	LEU	3.0
2	C	353	ARG	3.0
2	C	229	MET	3.0
3	D	962	GLN	3.0
2	C	278	GLU	3.0
5	F	300	ASP	3.0
1	K	10	VAL	2.9
1	K	144	VAL	2.9
3	N	1478	SER	2.9
3	D	1211	MET	2.9
2	M	762	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
3	D	93	ILE	2.9
5	F	195	VAL	2.9
1	L	114	PHE	2.9
2	M	1039	ALA	2.9
1	K	73	GLU	2.9
2	M	271	GLU	2.9
2	M	202	TYR	2.9
5	F	229	TYR	2.9
3	N	402	PRO	2.9
2	C	175	GLU	2.9
1	B	94	LEU	2.9
3	D	178	LEU	2.9
3	D	876	SER	2.9
5	P	192	LEU	2.9
3	D	1454	GLY	2.9
5	F	118	GLU	2.9
1	B	56	VAL	2.9
2	C	612	VAL	2.9
3	D	498	VAL	2.9
3	D	716	PHE	2.9
5	P	137	GLY	2.9
2	M	602	GLU	2.9
2	C	38	LYS	2.9
2	M	651	LYS	2.9
1	A	189	ARG	2.9
2	C	812	GLY	2.9
3	D	1006	ALA	2.9
3	N	766	ALA	2.9
2	M	517	ARG	2.9
5	F	178	ARG	2.9
2	C	1026	GLN	2.9
3	D	125	GLN	2.9
2	C	648	ARG	2.9
2	M	611	ILE	2.9
1	K	220	GLU	2.9
2	M	241	LEU	2.9
2	M	963	LEU	2.9
4	E	54	LEU	2.9
5	F	210	LEU	2.9
5	F	123	ASP	2.9
2	C	347	GLY	2.9
4	E	11	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
4	O	96	GLU	2.9
3	D	666	ILE	2.9
3	N	472	ALA	2.9
3	N	1309	ALA	2.9
2	M	723	THR	2.9
3	N	115	LEU	2.8
2	C	904	PRO	2.8
2	M	276	LYS	2.8
3	N	864	VAL	2.8
4	E	64	ALA	2.8
1	B	218	LEU	2.8
1	L	89	PHE	2.8
1	L	101	LEU	2.8
2	C	783	ARG	2.8
2	M	934	PHE	2.8
2	M	609	ASN	2.8
3	N	214	GLU	2.8
2	C	344	PHE	2.8
2	M	909	ALA	2.8
2	M	218	VAL	2.8
3	D	863	VAL	2.8
3	N	1292	VAL	2.8
2	C	59	LYS	2.8
3	D	411	THR	2.8
1	L	25	LEU	2.8
2	C	107	LEU	2.8
5	F	175	HIS	2.8
2	C	117	HIS	2.8
2	C	505	GLY	2.8
2	M	159	ILE	2.8
2	C	831	ARG	2.8
3	N	39	PRO	2.8
3	D	1318	TYR	2.8
3	N	996	TRP	2.8
1	K	193	ASP	2.8
2	M	373	VAL	2.8
3	D	517	VAL	2.8
2	M	663	ASN	2.8
5	P	110	MET	2.8
3	D	1130	ARG	2.8
3	N	41	ARG	2.8
2	C	1090	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
2	M	286	SER	2.8
2	C	698	ASP	2.8
2	M	660	ALA	2.8
1	A	144	VAL	2.8
3	D	431	VAL	2.8
3	D	1333	HIS	2.8
4	O	45	ARG	2.8
2	C	794	PRO	2.8
5	F	166	LEU	2.8
2	M	880	MET	2.7
1	K	74	ASP	2.7
3	D	1137	ARG	2.7
5	P	300	ASP	2.7
1	K	118	ALA	2.7
2	C	458	TYR	2.7
2	M	985	GLY	2.7
4	O	93	TYR	2.7
2	M	317	VAL	2.7
3	N	66	GLN	2.7
3	N	1200	VAL	2.7
3	D	1041	LEU	2.7
5	F	132	ARG	2.7
3	D	469	ASP	2.7
3	D	92	HIS	2.7
5	P	402	ASN	2.7
2	M	823	VAL	2.7
2	C	959	PRO	2.7
2	M	516	ARG	2.7
3	D	677	LEU	2.7
3	N	1329	ALA	2.7
4	E	83	ASP	2.7
3	D	115	LEU	2.7
3	D	1363	LEU	2.7
3	N	1445	HIS	2.7
2	M	598	GLU	2.7
4	O	43	GLU	2.7
3	N	587	ARG	2.7
2	C	677	MET	2.7
2	M	443	THR	2.7
2	M	521	PRO	2.7
3	N	772	PRO	2.7
2	M	7	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
3	D	650	LEU	2.7
3	D	972	LEU	2.7
3	N	1127	GLU	2.7
3	N	1209	LEU	2.7
4	E	77	GLU	2.7
3	D	391	ALA	2.7
3	N	53	ILE	2.7
2	C	976	ASP	2.7
2	C	355	VAL	2.7
3	D	126	VAL	2.7
3	N	72	VAL	2.7
3	D	976	GLN	2.7
1	K	112	ARG	2.7
3	N	650	LEU	2.7
3	N	1311	LEU	2.7
3	D	1329	ALA	2.7
3	N	1226	ALA	2.7
2	C	9	ILE	2.7
2	C	239	PHE	2.7
2	M	1059	ASP	2.7
3	N	882	PHE	2.7
5	F	209	PHE	2.7
1	A	134	GLU	2.6
2	M	569	VAL	2.6
3	N	781	PRO	2.6
2	C	62	GLY	2.6
2	C	174	LEU	2.6
2	C	527	GLU	2.6
4	E	57	ASP	2.6
5	F	401	GLU	2.6
3	N	1346	ARG	2.6
3	D	1328	GLY	2.6
2	C	161	SER	2.6
2	C	660	ALA	2.6
3	N	453	ASP	2.6
1	B	217	ILE	2.6
2	C	1111	ILE	2.6
3	D	869	MET	2.6
5	F	81	VAL	2.6
1	K	99	LEU	2.6
3	N	123	LEU	2.6
2	C	1045	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
3	D	472	ALA	2.6
3	N	760	ARG	2.6
1	L	109	VAL	2.6
3	N	707	THR	2.6
5	P	282	LEU	2.6
2	M	636	ALA	2.6
2	M	177	GLU	2.6
2	C	159	ILE	2.6
3	D	378	ILE	2.6
1	K	53	VAL	2.6
3	N	710	ARG	2.6
3	N	886	VAL	2.6
3	N	968	ASP	2.6
3	N	197	SER	2.6
2	C	456	ALA	2.6
2	C	1061	GLU	2.6
2	M	741	GLY	2.6
3	N	776	GLU	2.6
1	L	11	PHE	2.6
2	C	534	VAL	2.6
2	M	922	PHE	2.6
3	D	1386	ASP	2.6
1	B	220	GLU	2.6
2	M	737	LEU	2.6
3	D	691	LEU	2.6
3	N	1339	LYS	2.6
4	O	5	GLY	2.6
5	P	296	GLY	2.6
1	A	223	THR	2.6
3	D	1136	LYS	2.6
2	M	568	ALA	2.5
3	N	1006	ALA	2.5
3	N	1305	LEU	2.5
4	E	73	LEU	2.5
3	D	52	PRO	2.5
1	B	29	GLU	2.5
3	D	1297	GLU	2.5
3	D	1035	ILE	2.5
3	D	1486	VAL	2.5
3	N	726	ILE	2.5
3	N	1011	PHE	2.5
1	B	201	THR	2.5

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Mol	Chain	Res	Type	RSRZ
3	N	612	GLY	2.5
2	C	773	LEU	2.5
3	N	438	ASP	2.5
3	N	366	LYS	2.5
2	M	619	ARG	2.5
3	D	1275	SER	2.5
3	D	169	TYR	2.5
3	D	791	TYR	2.5
1	A	99	LEU	2.5
2	C	40	GLU	2.5
2	M	1036	GLU	2.5
3	D	204	LEU	2.5
3	N	677	LEU	2.5
3	N	164	GLY	2.5
5	F	137	GLY	2.5
1	L	10	VAL	2.5
3	D	231	VAL	2.5
5	F	156	VAL	2.5
2	M	1046	ALA	2.5
3	D	581	LEU	2.5
2	M	247	PRO	2.5
2	C	5	ARG	2.5
2	M	463	GLU	2.5
1	A	51	THR	2.5
1	L	201	THR	2.5
1	A	58	ILE	2.5
2	M	81	ASP	2.5
3	D	68	PHE	2.5
3	D	103	TRP	2.5
1	B	101	LEU	2.5
2	M	952	LEU	2.5
4	E	42	PRO	2.5
3	D	692	GLU	2.5
2	M	757	GLY	2.5
1	A	160	ASP	2.5
4	O	38	THR	2.5
1	L	103	ALA	2.5
2	M	926	PHE	2.5
3	D	1061	PHE	2.5
2	C	264	PRO	2.5
3	D	1039	CYS	2.5
3	N	652	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
4	O	40	LEU	2.5
2	M	925	TYR	2.5
2	M	62	GLY	2.5
2	M	143	SER	2.5
3	N	119	SER	2.5
2	M	552	HIS	2.5
3	D	875	THR	2.5
3	D	900	ILE	2.5
3	N	800	LYS	2.5
1	B	211	LEU	2.5
2	M	882	LEU	2.5
2	M	338	GLU	2.4
5	F	353	GLU	2.4
2	C	941	VAL	2.4
2	C	1069	ALA	2.4
5	P	356	LYS	2.4
1	L	58	ILE	2.4
1	L	195	LEU	2.4
3	N	584	ASN	2.4
2	C	591	SER	2.4
2	M	471	TYR	2.4
3	D	798	GLU	2.4
1	A	53	VAL	2.4
2	C	570	PRO	2.4
2	C	659	PRO	2.4
2	C	908	GLY	2.4
3	D	1384	PRO	2.4
2	C	684	PHE	2.4
3	N	1036	ARG	2.4
2	M	367	LEU	2.4
3	D	833	GLU	2.4
3	N	102	ILE	2.4
3	N	166	GLN	2.4
3	N	1184	GLN	2.4
1	L	144	VAL	2.4
1	L	9	PRO	2.4
2	C	35	PRO	2.4
2	M	1041	GLU	2.4
3	N	107	ASP	2.4
1	A	132	LEU	2.4
2	M	843	HIS	2.4
1	L	220	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
2	M	1069	ALA	2.4
3	N	16	GLU	2.4
5	F	216	GLY	2.4
2	C	549	PHE	2.4
2	M	73	LEU	2.4
5	P	376	ILE	2.4
1	A	226	SER	2.4
2	C	614	ARG	2.4
2	M	462	ASP	2.4
3	D	63	TYR	2.4
3	D	1224	VAL	2.4
5	P	314	PRO	2.4
5	P	323	ASP	2.4
2	C	1006	HIS	2.4
2	C	68	PHE	2.4
3	N	35	ARG	2.4
2	C	754	ILE	2.4
3	D	992	ILE	2.4
5	F	108	GLU	2.4
1	B	91	ASN	2.4
3	N	569	ASN	2.4
3	N	765	SER	2.4
3	N	956	ILE	2.4
2	M	246	ASP	2.4
3	N	391	ALA	2.3
2	C	859	PRO	2.3
2	M	869	VAL	2.3
1	B	123	MET	2.3
5	P	175	HIS	2.3
3	D	800	LYS	2.3
2	C	158	TYR	2.3
3	D	1305	LEU	2.3
3	N	691	LEU	2.3
2	M	349	ALA	2.3
3	N	633	VAL	2.3
3	N	1487	VAL	2.3
1	A	140	MET	2.3
2	C	392	SER	2.3
3	D	1262	LEU	2.3
3	N	934	LEU	2.3
3	N	1275	SER	2.3
5	P	85	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	648	ARG	2.3
1	K	140	MET	2.3
1	K	184	THR	2.3
2	C	177	GLU	2.3
3	D	1092	GLY	2.3
3	N	1433	SER	2.3
2	C	529	VAL	2.3
2	C	587	VAL	2.3
3	D	499	VAL	2.3
3	D	479	GLU	2.3
3	D	560	GLN	2.3
3	N	147	VAL	2.3
1	A	149	GLY	2.3
3	D	61	GLY	2.3
2	C	878	SER	2.3
3	N	914	LEU	2.3
2	C	95	TYR	2.3
2	C	213	ALA	2.3
3	D	1277	ILE	2.3
3	N	887	ALA	2.3
4	O	92	ILE	2.3
5	F	88	ILE	2.3
2	C	337	GLY	2.3
2	C	835	VAL	2.3
3	D	996	TRP	2.3
3	N	999	THR	2.3
3	N	1430	SER	2.3
2	C	1015	LEU	2.3
2	M	1021	LEU	2.3
3	D	557	LEU	2.3
2	C	48	PHE	2.3
5	F	228	GLU	2.3
2	C	471	TYR	2.3
2	M	154	ARG	2.3
2	M	951	GLY	2.3
3	D	1040	GLY	2.3
2	C	645	VAL	2.3
3	N	591	VAL	2.3
4	E	67	GLU	2.3
3	D	873	LEU	2.3
3	D	1490	LYS	2.3
5	F	337	HIS	2.3

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Mol	Chain	Res	Type	RSRZ
3	N	1008	PHE	2.3
1	K	191	ASP	2.3
2	C	106	GLY	2.3
3	N	1454	GLY	2.3
3	D	885	ILE	2.3
4	E	92	ILE	2.3
2	M	534	VAL	2.3
2	C	422	ARG	2.2
3	D	162	ARG	2.2
3	N	125	GLN	2.2
3	N	878	GLY	2.2
1	A	77	GLU	2.2
2	M	70	GLU	2.2
5	P	189	GLU	2.2
1	A	86	VAL	2.2
2	C	825	VAL	2.2
2	M	756	VAL	2.2
5	F	100	VAL	2.2
2	M	717	LEU	2.2
3	N	439	LEU	2.2
2	C	913	GLU	2.2
2	M	50	GLU	2.2
2	C	8	ARG	2.2
2	C	266	ARG	2.2
2	C	542	VAL	2.2
5	P	195	VAL	2.2
2	M	506	ASN	2.2
3	D	569	ASN	2.2
3	D	413	ASP	2.2
1	A	52	ALA	2.2
1	L	8	ALA	2.2
1	B	205	VAL	2.2
3	D	1005	GLN	2.2
3	D	18	ILE	2.2
2	C	990	GLY	2.2
3	D	77	GLY	2.2
1	K	85	LEU	2.2
1	L	132	LEU	2.2
2	C	400	PRO	2.2
2	C	917	LEU	2.2
2	C	1095	LEU	2.2
2	M	974	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
3	D	465	LEU	2.2
3	D	658	LEU	2.2
3	N	135	LEU	2.2
3	N	547	LEU	2.2
5	P	367	MET	2.2
2	C	466	PHE	2.2
3	D	999	THR	2.2
1	K	122	ILE	2.2
3	D	393	ILE	2.2
3	N	992	ILE	2.2
2	C	230	ARG	2.2
2	M	439	CYS	2.2
2	M	573	ARG	2.2
1	L	152	PRO	2.2
2	M	673	LEU	2.2
4	E	69	LEU	2.2
4	O	69	LEU	2.2
1	K	56	VAL	2.2
2	M	135	VAL	2.2
2	M	867	VAL	2.2
3	D	1344	VAL	2.2
1	A	122	ILE	2.2
3	N	885	ILE	2.2
2	M	400	PRO	2.2
2	M	659	PRO	2.2
5	P	202	TYR	2.2
2	C	755	LEU	2.2
2	C	963	LEU	2.2
3	D	580	ALA	2.2
3	D	1272	ALA	2.2
3	N	1505	ALA	2.2
3	N	648	MET	2.2
3	D	626	SER	2.2
1	K	225	PHE	2.2
2	C	386	PHE	2.2
2	C	399	ASN	2.2
2	C	479	VAL	2.2
3	D	202	VAL	2.2
3	N	202	VAL	2.2
2	C	902	ILE	2.2
2	M	816	LYS	2.2
2	C	712	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
2	M	174	LEU	2.1
2	M	391	LEU	2.1
2	M	418	LEU	2.1
2	M	383	ARG	2.1
2	M	591	SER	2.1
3	D	73	CYS	2.1
1	L	182	GLU	2.1
2	M	1027	PHE	2.1
3	N	25	GLU	2.1
3	N	1095	THR	2.1
4	O	67	GLU	2.1
1	L	72	LYS	2.1
2	M	408	ARG	2.1
3	D	883	ALA	2.1
3	D	763	MET	2.1
1	A	47	SER	2.1
2	C	1033	GLY	2.1
5	P	200	LYS	2.1
3	D	1071	PHE	2.1
2	M	697	ARG	2.1
2	M	1012	PRO	2.1
1	B	130	ALA	2.1
2	M	885	ILE	2.1
2	C	871	LEU	2.1
3	D	468	LEU	2.1
5	F	116	LEU	2.1
3	D	64	LYS	2.1
3	N	205	TYR	2.1
2	M	176	VAL	2.1
3	D	694	VAL	2.1
5	F	244	ARG	2.1
1	B	171	PHE	2.1
5	P	120	THR	2.1
1	K	116	PRO	2.1
2	M	948	GLU	2.1
3	D	757	ALA	2.1
3	N	69	GLU	2.1
2	C	611	ILE	2.1
1	L	218	LEU	2.1
2	C	822	VAL	2.1
2	M	1037	VAL	2.1
3	D	890	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
3	N	417	PRO	2.1
3	N	1032	PRO	2.1
1	B	21	GLY	2.1
1	L	127	LEU	2.1
3	D	728	LEU	2.1
3	N	1420	LEU	2.1
2	C	366	SER	2.1
3	D	119	SER	2.1
3	N	1436	SER	2.1
2	C	4	LYS	2.1
2	M	478	VAL	2.1
3	D	72	VAL	2.1
3	D	518	PRO	2.1
3	N	875	THR	2.1
1	A	114	PHE	2.1
2	M	127	PHE	2.1
2	C	160	ALA	2.1
3	D	243	ALA	2.1
3	N	562	ALA	2.1
3	D	244	GLU	2.1
3	D	711	LEU	2.1
3	N	930	LEU	2.1
3	N	1098	LEU	2.1
1	B	206	THR	2.1
1	L	223	THR	2.1
2	M	835	VAL	2.1
3	N	816	HIS	2.1
5	P	156	VAL	2.1
1	A	187	GLY	2.1
2	C	383	ARG	2.1
2	M	457	ALA	2.1
5	F	366	ALA	2.1
2	C	328	LEU	2.1
2	M	3	ILE	2.1
2	M	366	SER	2.1
3	D	648	MET	2.1
3	N	1044	LEU	2.1
3	N	1363	LEU	2.1
3	N	396	VAL	2.0
4	O	70	THR	2.0
5	F	77	THR	2.0
5	P	341	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
3	D	432	TYR	2.0
3	D	1308	GLU	2.0
2	M	59	LYS	2.0
1	K	46	SER	2.0
2	C	704	HIS	2.0
3	N	47	GLU	2.0
2	C	176	VAL	2.0
2	C	750	LYS	2.0
3	D	904	VAL	2.0
2	C	682	TYR	2.0
3	N	1238	MET	2.0
1	L	211	LEU	2.0
3	N	657	LEU	2.0
3	N	758	GLU	2.0
1	B	147	GLY	2.0
1	K	51	THR	2.0
1	K	98	THR	2.0
2	M	587	VAL	2.0
3	D	687	VAL	2.0
5	P	100	VAL	2.0
3	D	1293	PHE	2.0
5	P	178	ARG	2.0
2	M	1003	ASP	2.0
2	M	188	LYS	2.0
2	M	190	LYS	2.0
5	F	378	GLY	2.0
5	P	247	ILE	2.0
4	O	46	PRO	2.0
2	C	206	THR	2.0

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

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

6.3 Carbohydrates ⓘ

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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
8	MG	N	9002	1/1	0.55	3.76	53,53,53,53	0
8	MG	D	9001	1/1	0.29	2.45	29,29,29,29	0
6	STD	N	8002	43/43	0.16	0.11	27,35,41,48	0
6	STD	D	8001	43/43	0.13	-0.40	25,35,40,43	0
7	ZN	N	7413	1/1	0.13	-0.62	65,65,65,65	0
7	ZN	D	7412	1/1	0.10	-0.82	58,58,58,58	0
7	ZN	N	7459	1/1	0.12	-1.78	64,64,64,64	0
7	ZN	D	7458	1/1	0.13	-2.04	64,64,64,64	0

6.5 Other polymers

There are no such residues in this entry.