Full wwPDB EM Validation Report ⓘ

Mar 17, 2026 – 05:35 PM UTC

PDB ID	:	1O18 / pdb_00001o18
EMDB ID	:	EMD-1001
Title	:	MOLECULAR MODELS OF AVERAGED RIGOR CROSSBRIDGES FROM TOMOGRAMS OF INSECT FLIGHT MUSCLE
Authors	:	Chen, L.F.; Winkler, H.; Reedy, M.K.; Reedy, M.C.; Taylor, K.A.
Deposited on	:	2002-11-04
Resolution	:	70.00 Å(reported)
Based on initial models	:	1ATN, 2MYS

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

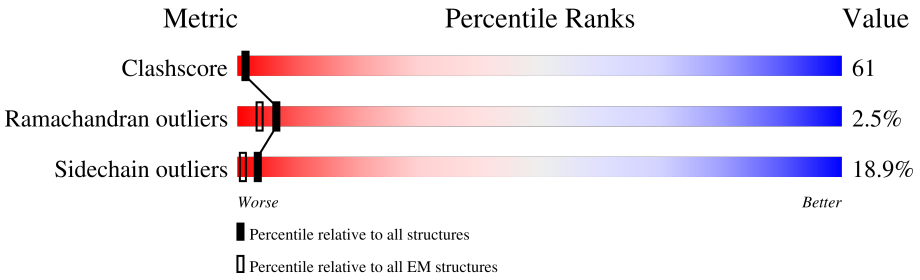
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 70.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984
Ramachandran outliers	224038	23583
Sidechain outliers	223484	23102

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

Mol	Chain	Length	Quality of chain
1	A	840	100% 26% 48% 22% ·
1	D	840	100% 25% 49% 22% ·
1	G	840	100% 24% 49% 22% 5%
1	J	840	100% 24% 50% 22% ·
1	M	840	100% 25% 49% 22% ·
1	P	840	100% 25% 50% 22% ·
2	E	145	100% 65% 25% 7% ·
2	H	145	100% 62% 29% 6% ·

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Mol	Chain	Length	Quality of chain
2	K	145	100% 63% 26% 7%
2	N	145	100% 63% 28% 6%
2	Q	145	100% 61% 30% 6%
3	F	147	100% 62% 35%
3	I	147	84% 62% 35%
3	L	147	100% 62% 35%
3	O	147	100% 61% 35%
3	R	147	100% 61% 35%
4	1	375	98% 50% 35% 12%
4	2	375	99% 52% 36% 9%
4	3	375	99% 54% 35% 9%
4	4	375	99% 54% 34% 9%
4	5	375	99% 55% 33% 9%
4	6	375	99% 56% 33% 9%
4	7	375	99% 56% 33% 9%
4	8	375	99% 52% 34% 11%
4	9	375	99% 50% 35% 12%
4	V	375	99% 50% 35% 12%
4	W	375	97% 49% 35% 13%
4	X	375	99% 54% 34% 10%
4	Y	375	99% 54% 34% 9%
4	Z	375	99% 50% 36% 11%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MLY	A	505	-	-	X	-
1	MLY	A	553	-	-	X	-
1	MLY	A	764	-	-	X	-
1	MLY	A	768	-	-	X	-
1	MLY	A	782	-	-	X	-
1	MLY	D	553	-	-	X	-
1	MLY	D	764	-	-	X	-
1	MLY	D	782	-	-	X	-
1	MLY	G	553	-	-	X	-
1	MLY	G	764	-	-	X	-
1	MLY	G	84	-	-	X	-
1	MLY	J	505	-	-	X	-
1	MLY	J	553	-	-	X	-
1	MLY	J	839	-	-	X	-
1	MLY	J	84	-	-	X	-
1	MLY	M	553	-	-	X	-
1	MLY	M	839	-	-	X	-
1	MLY	P	764	-	-	X	-
1	MLY	P	839	-	-	X	-

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 92716 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called SKELETAL MUSCLE MYOSIN II.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	D	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	G	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	J	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	M	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		
1	P	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		

- Molecule 2 is a protein called SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	E	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	H	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	K	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	N	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
2	Q	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		

- Molecule 3 is a protein called SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	F	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	I	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	L	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	O	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	R	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		

- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

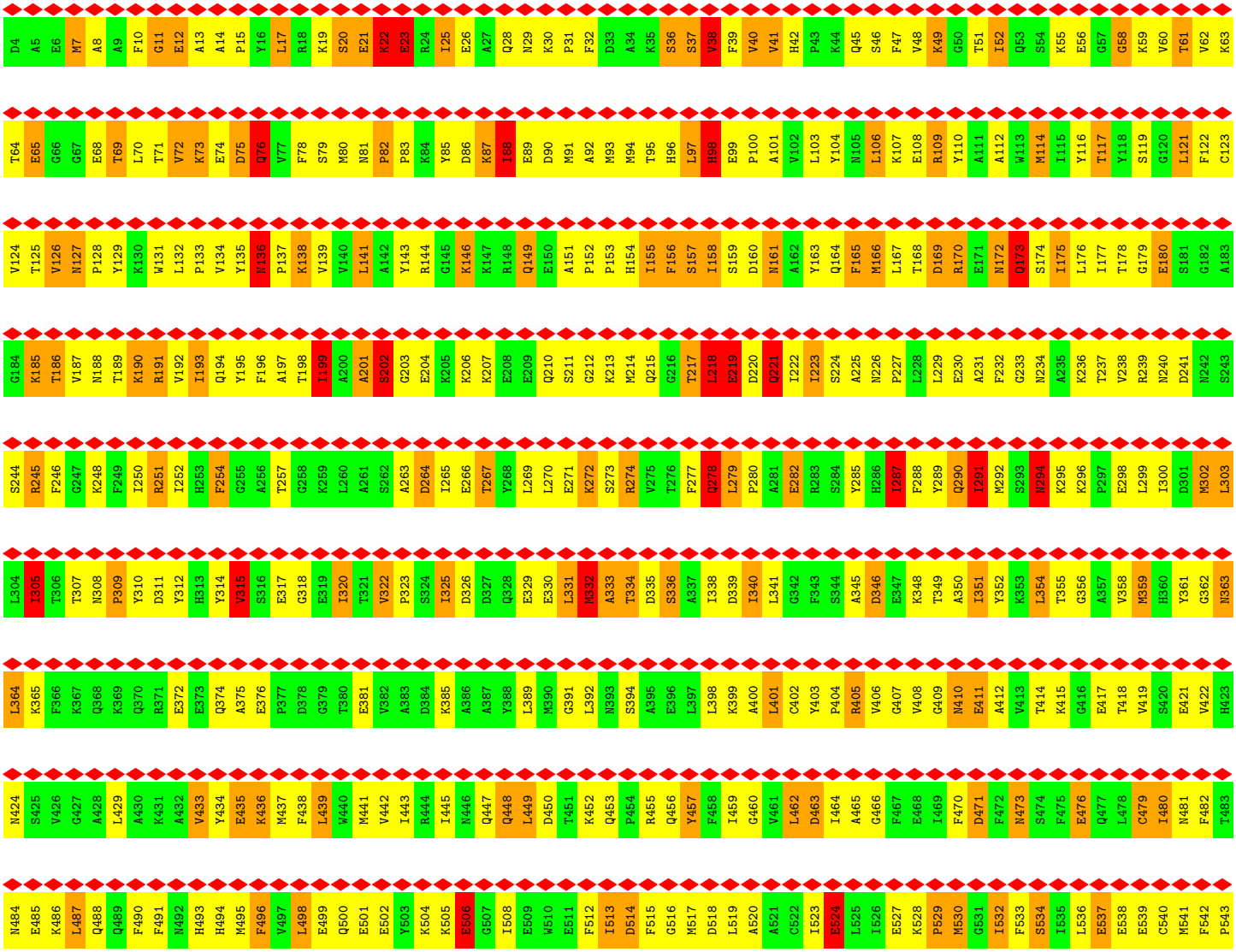
Mol	Chain	Residues	Atoms					AltConf	Trace
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	5	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	6	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	7	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	8	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	9	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	V	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	W	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	X	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	Y	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	Z	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		

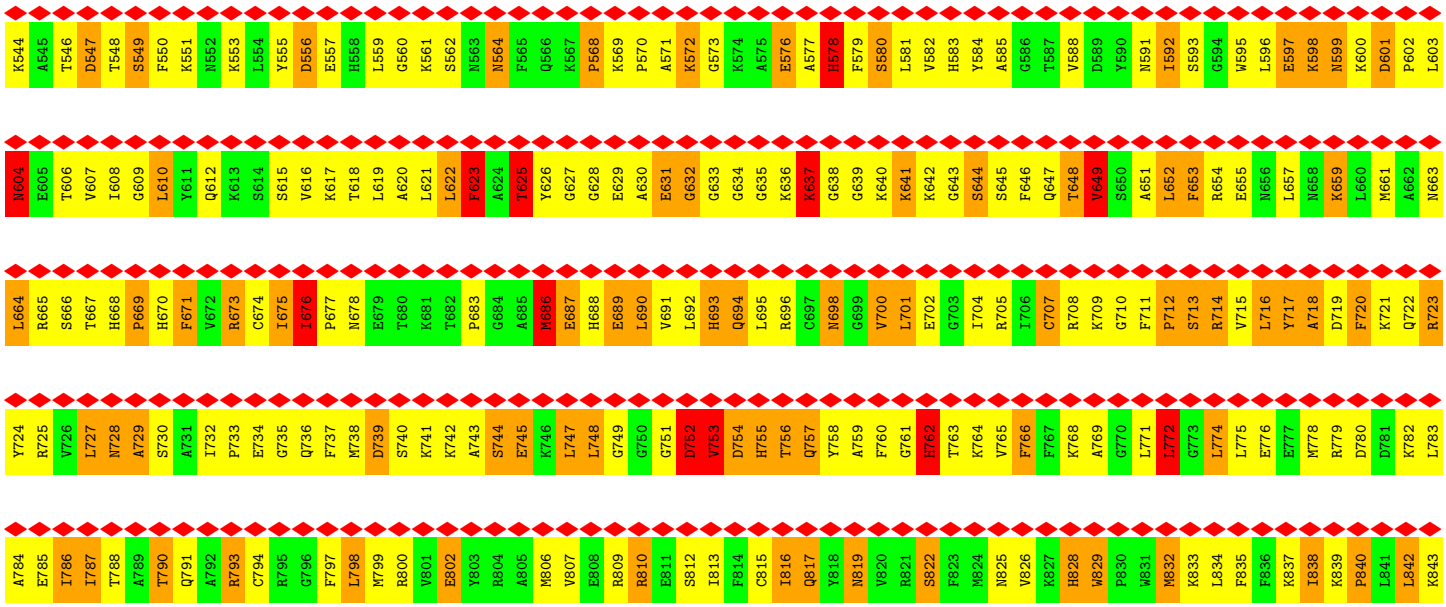
3 Residue-property plots (i)

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

- Molecule 1: SKELETAL MUSCLE MYOSIN II

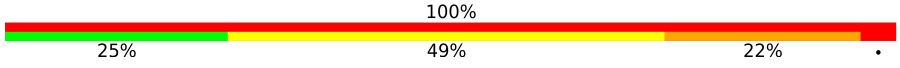
Chain A:

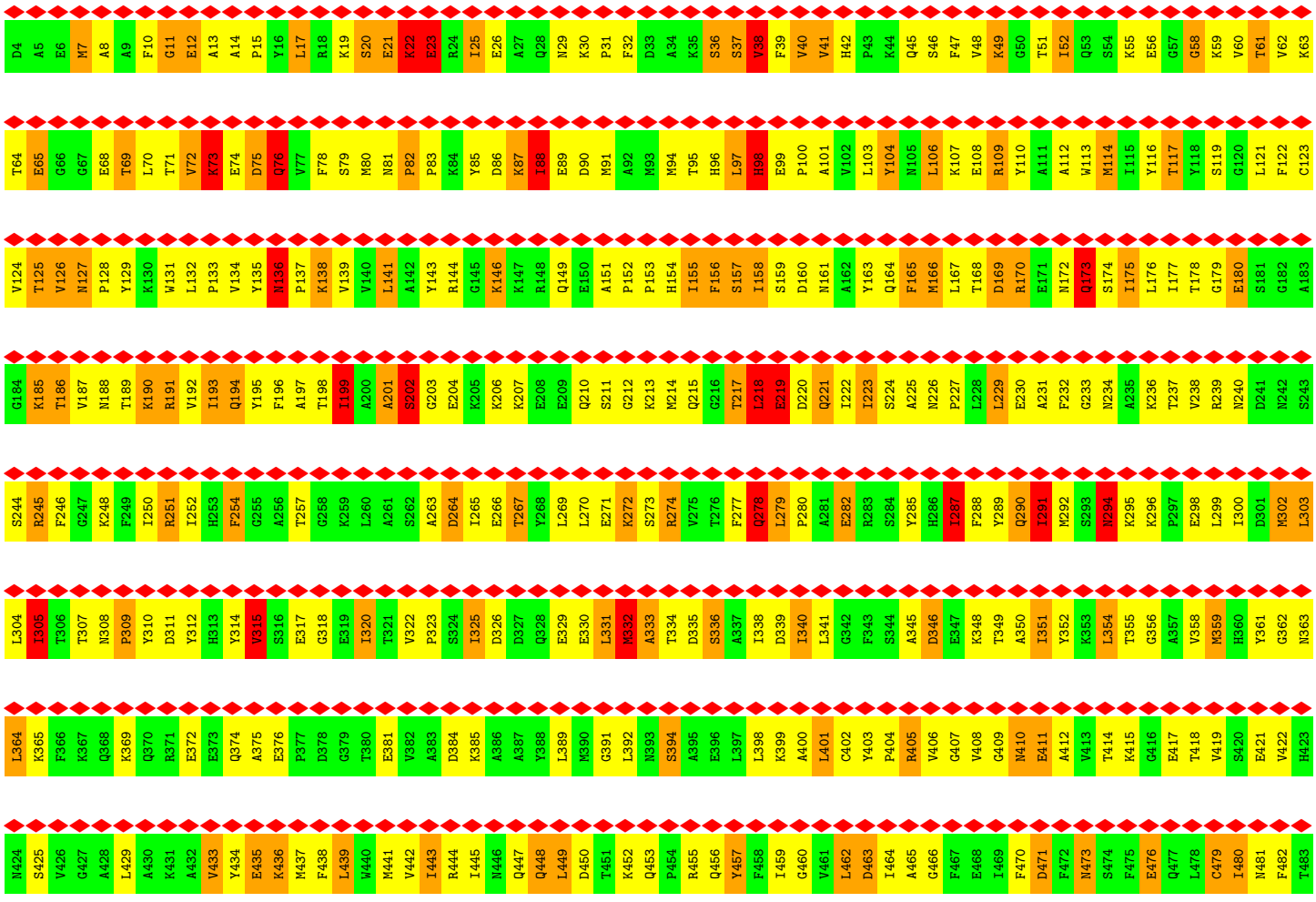


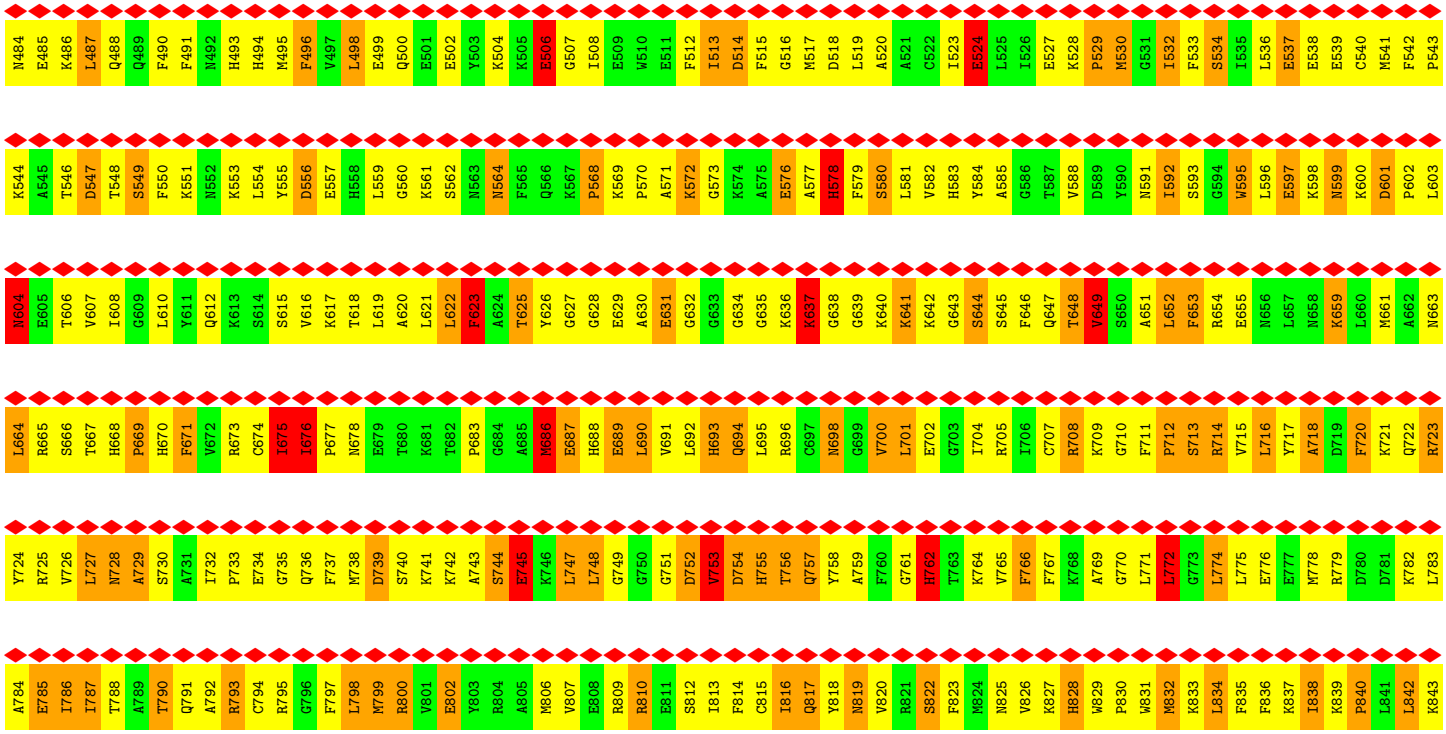


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain D:

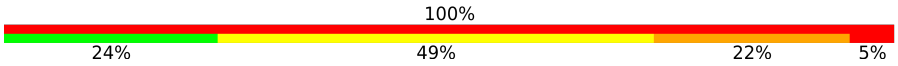


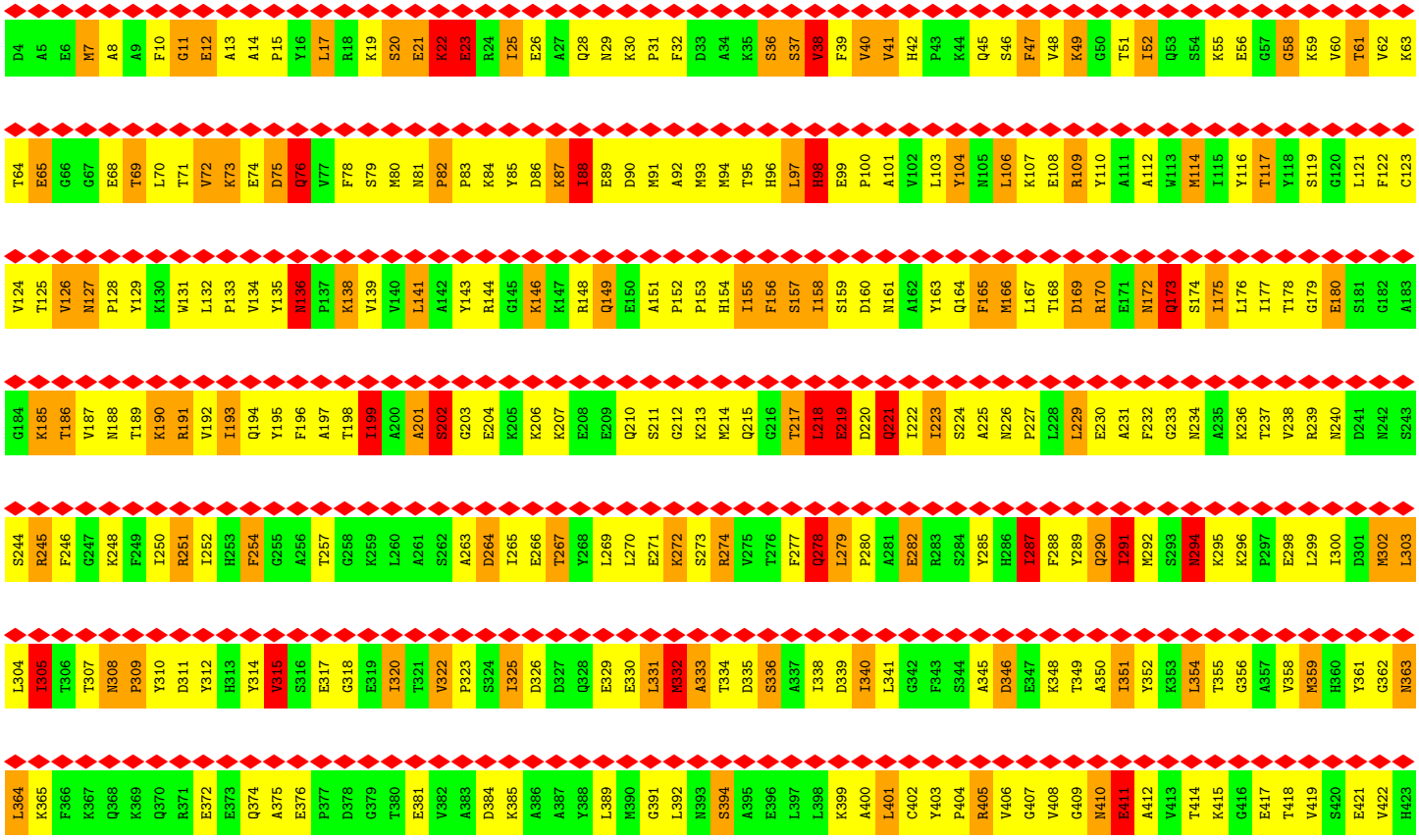


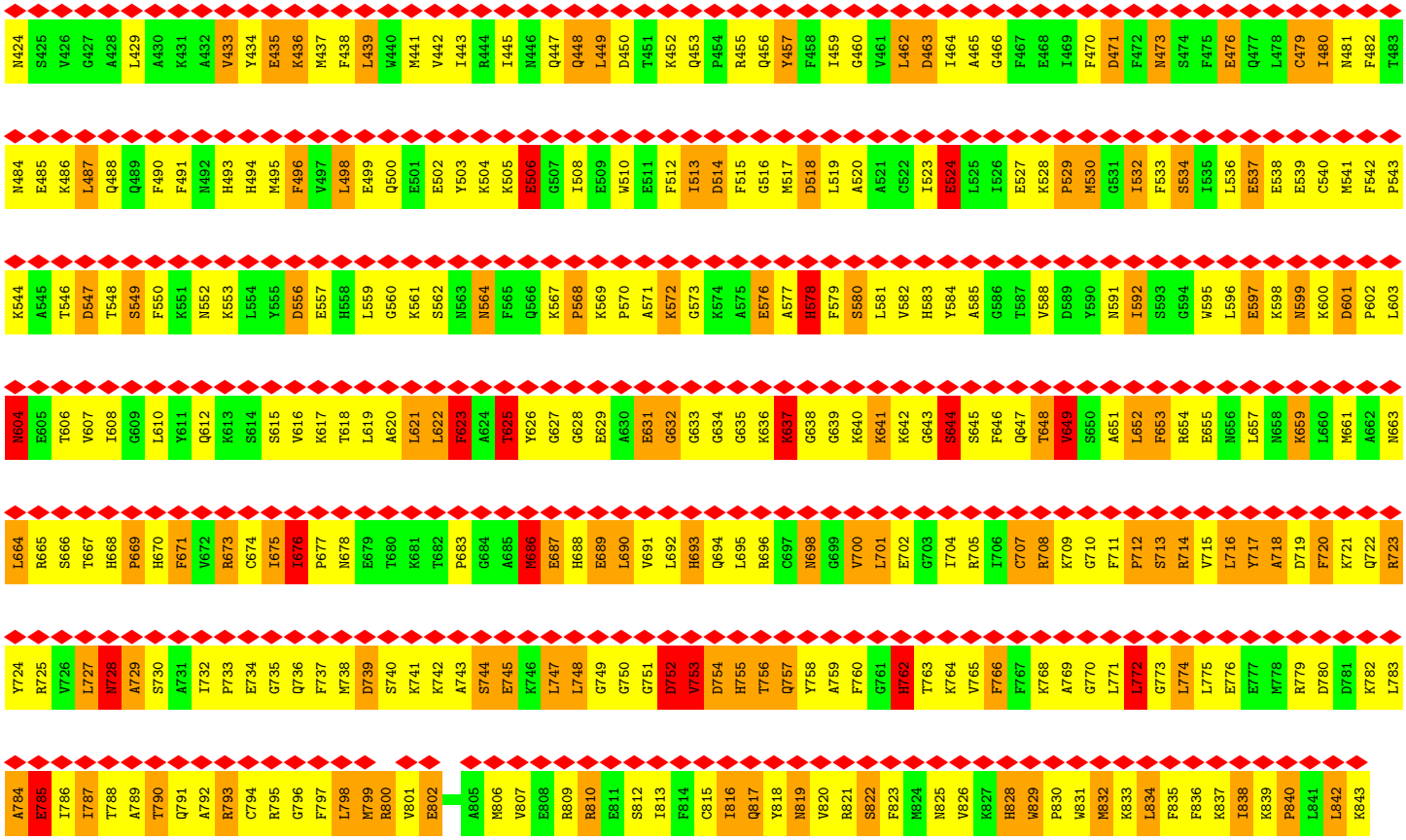


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain G:

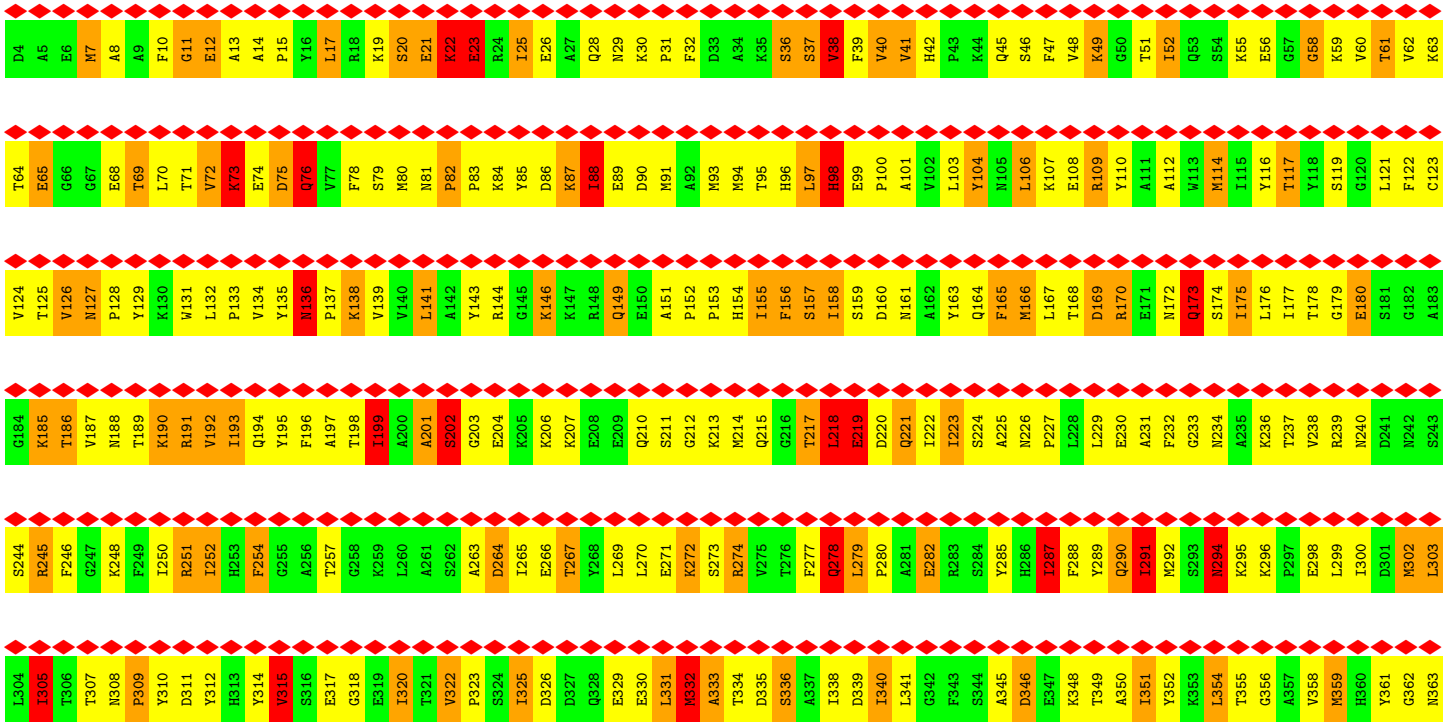


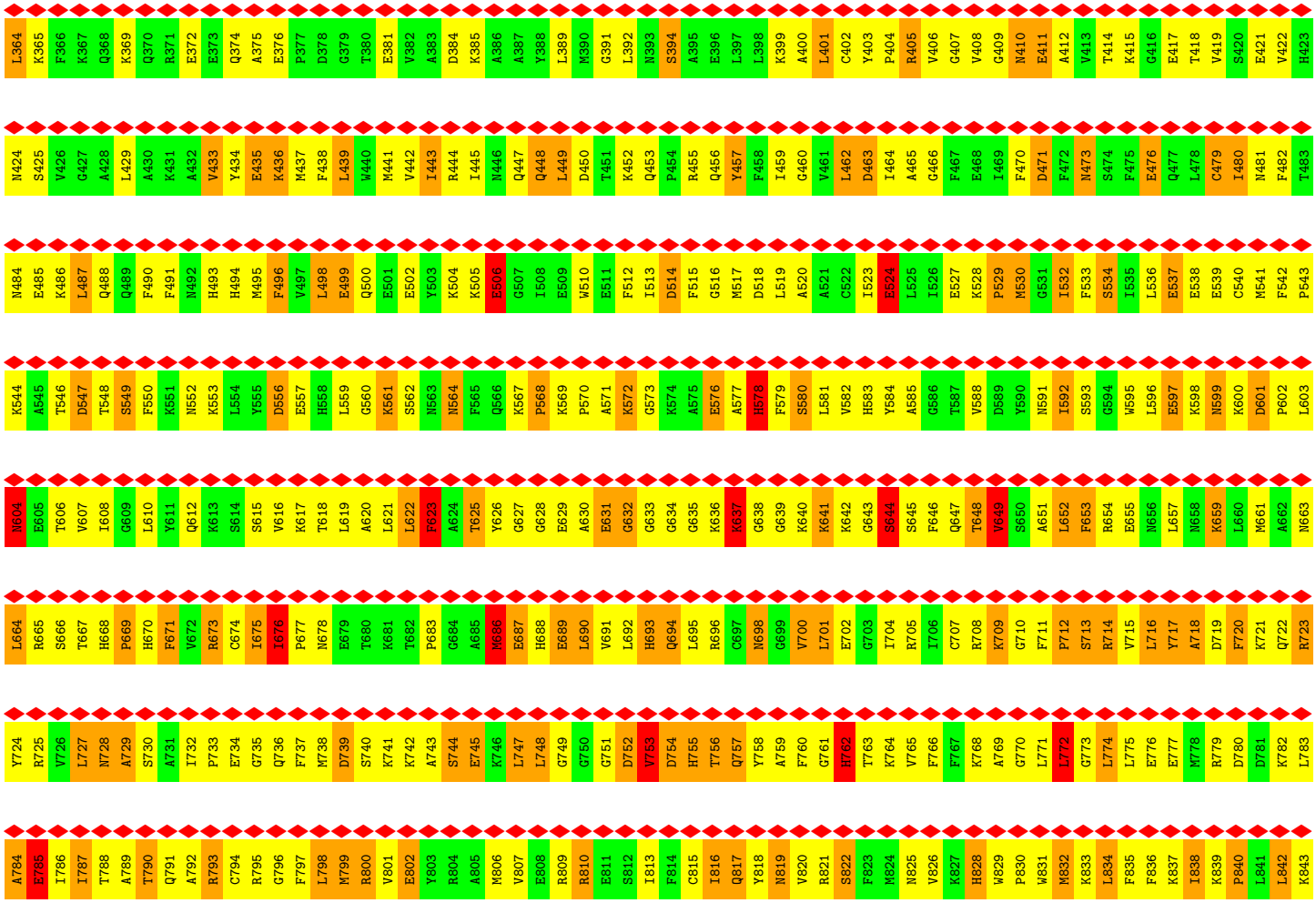




• Molecule 1: SKELETAL MUSCLE MYOSIN II

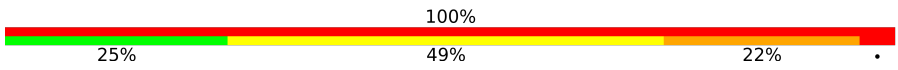
Chain J:

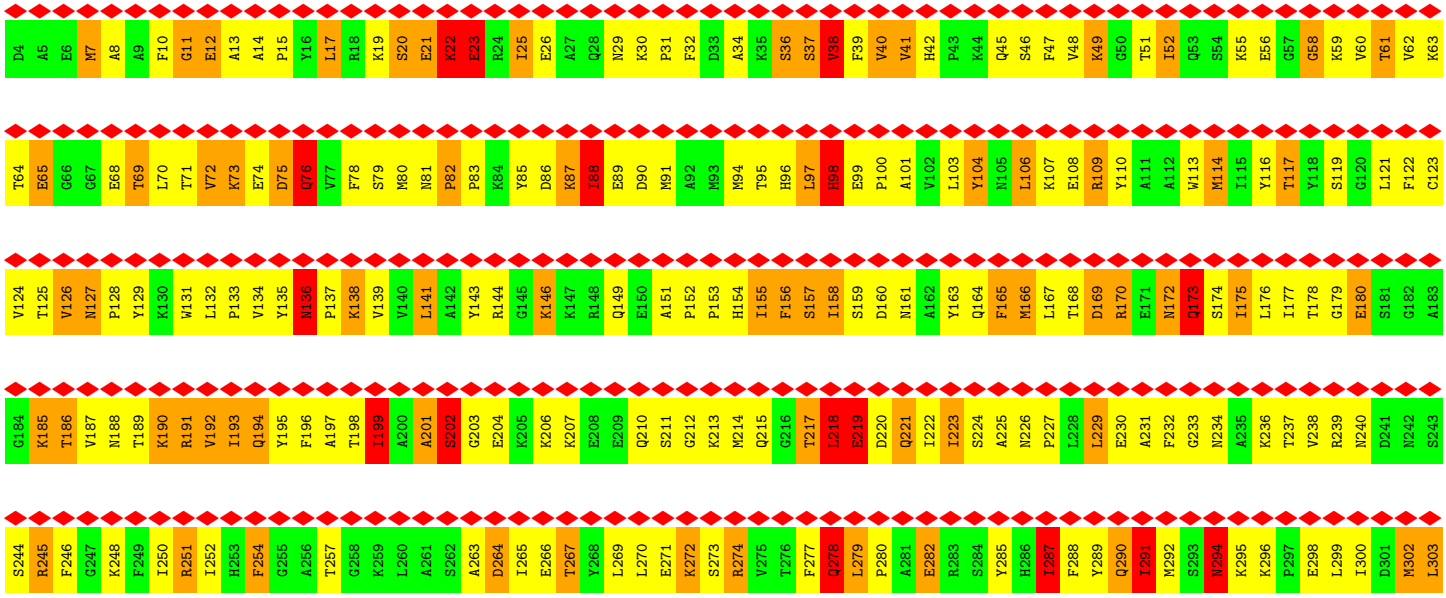


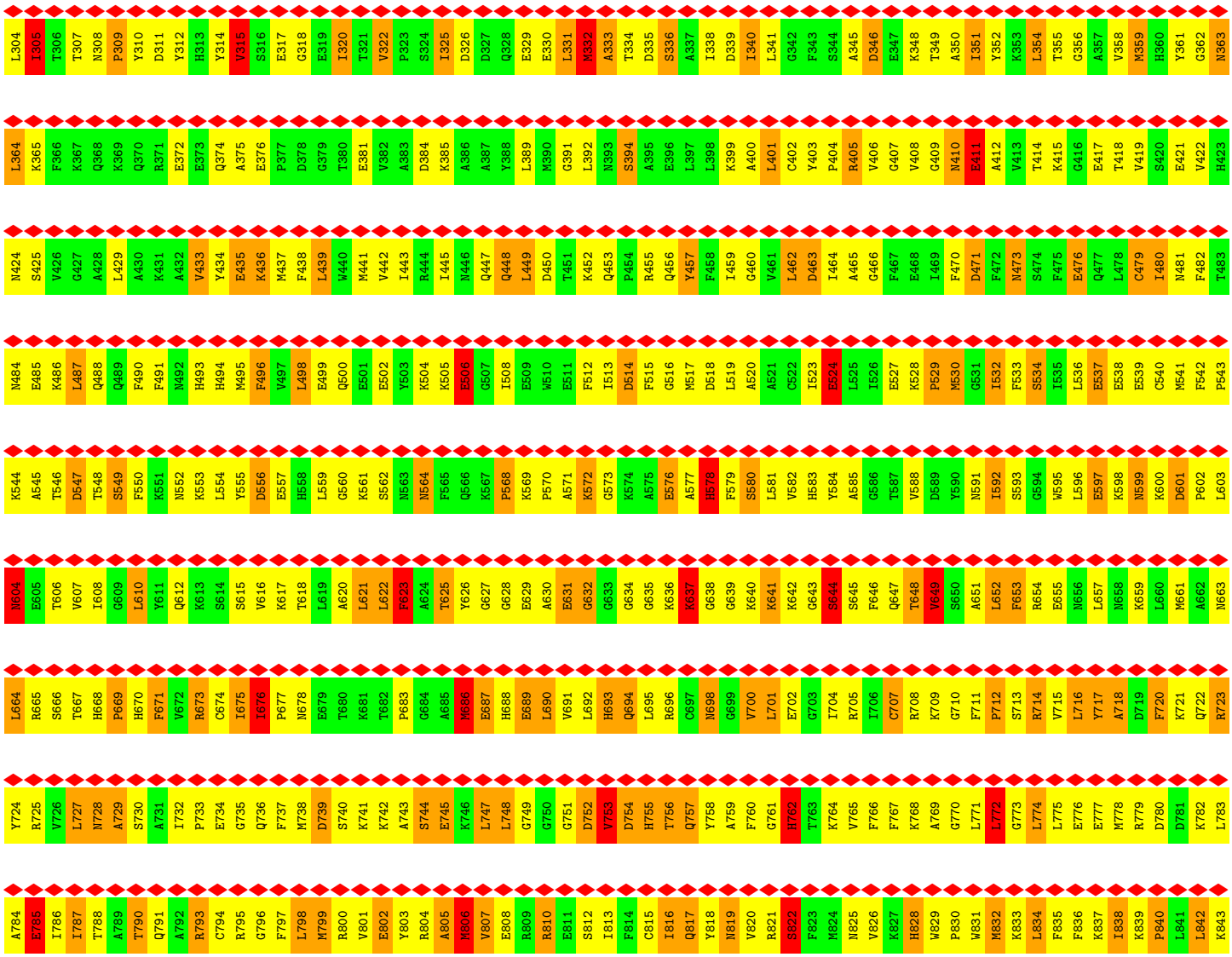


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain M:

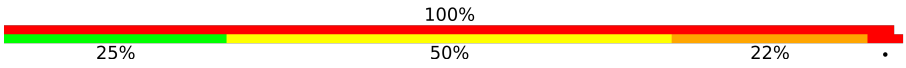


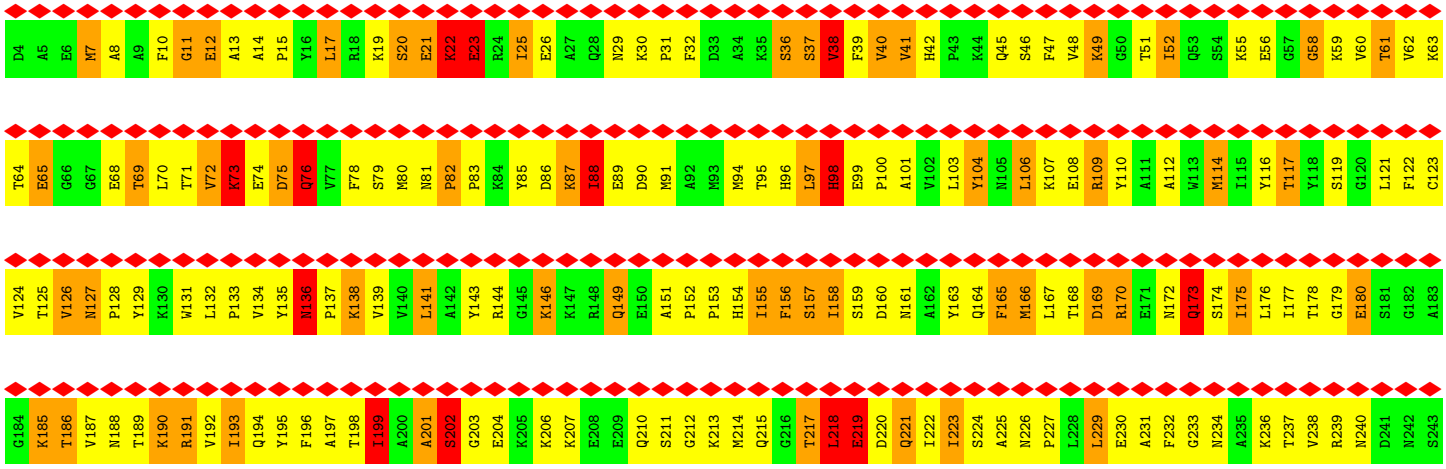


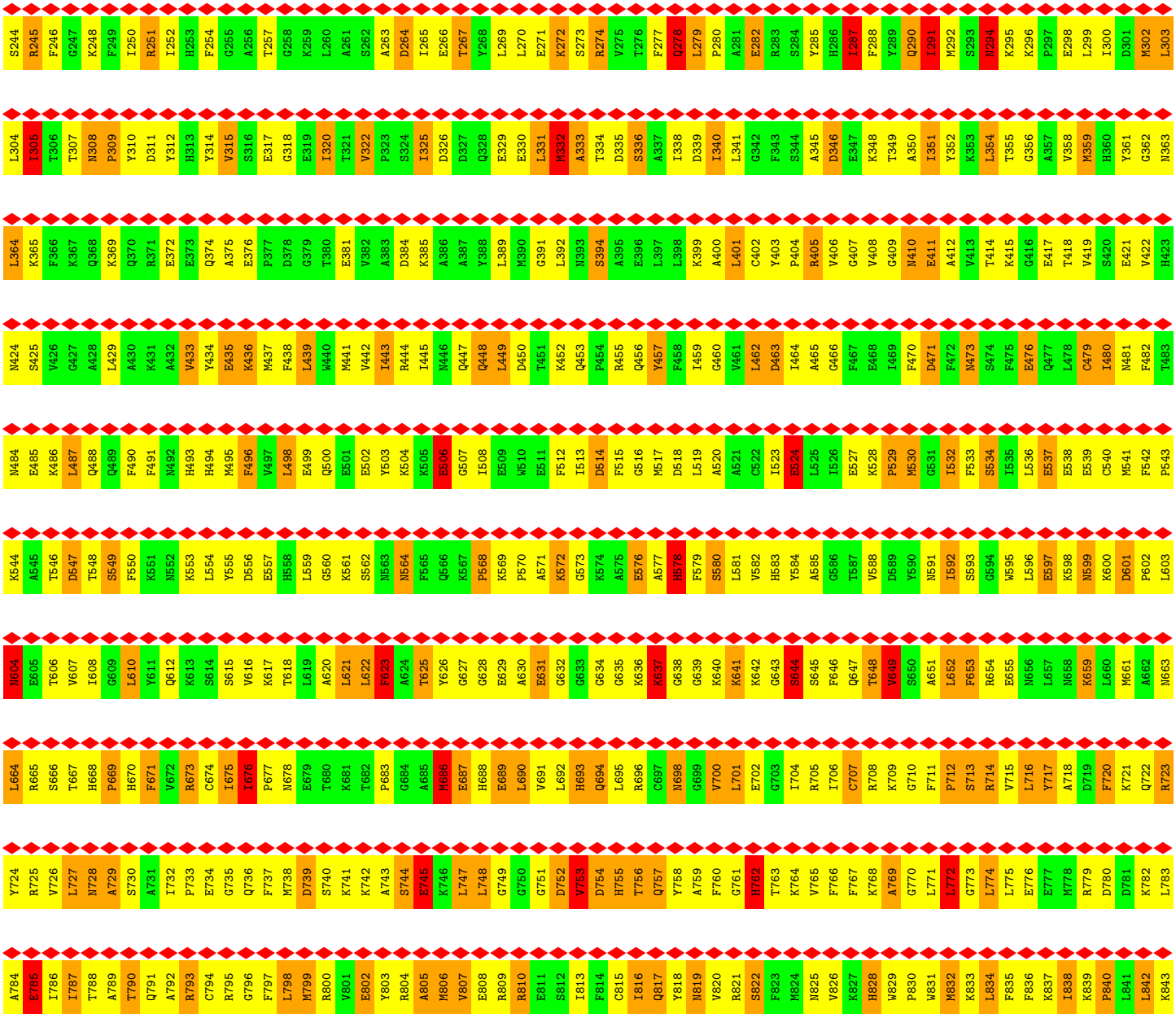


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain P:

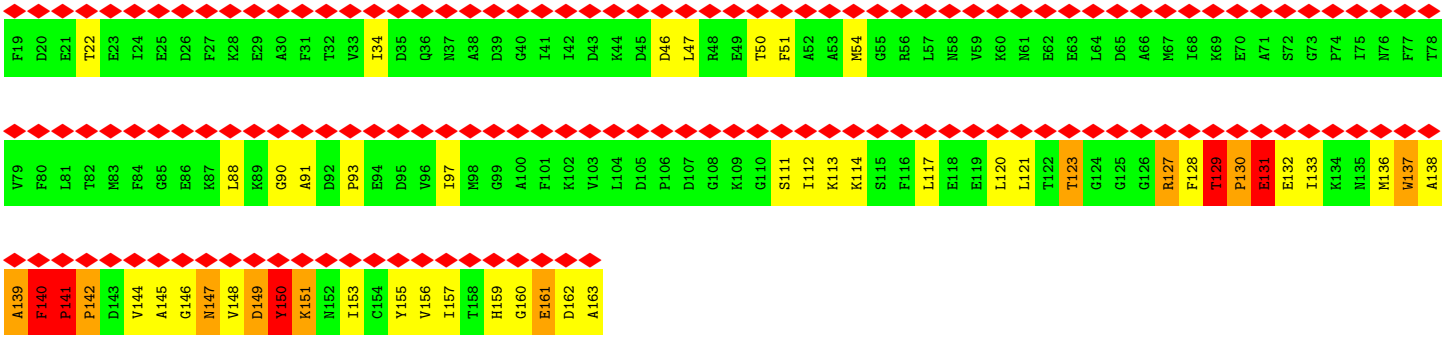






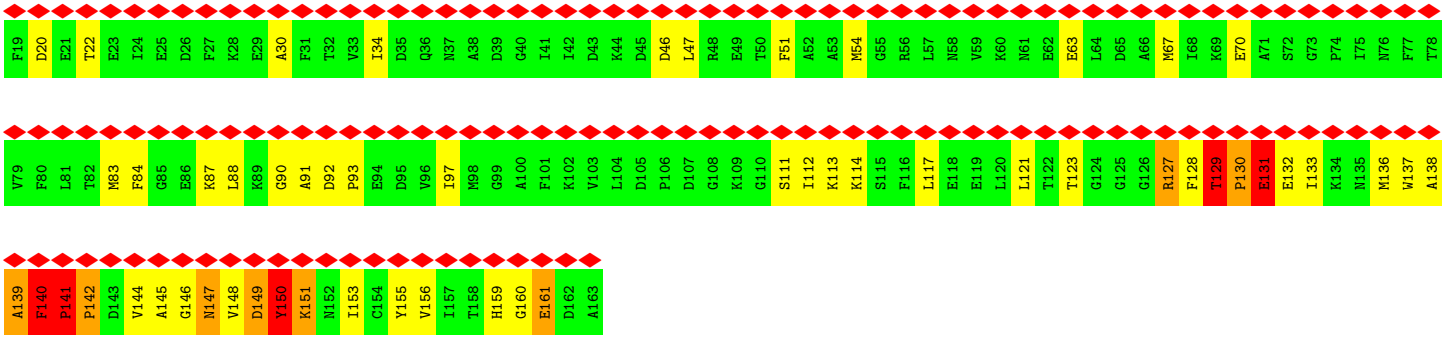
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain E:



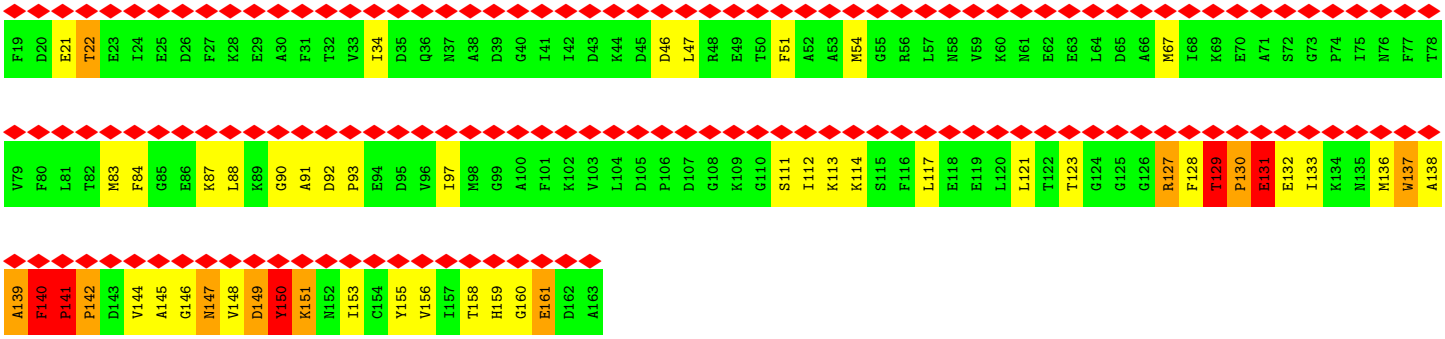
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain H:



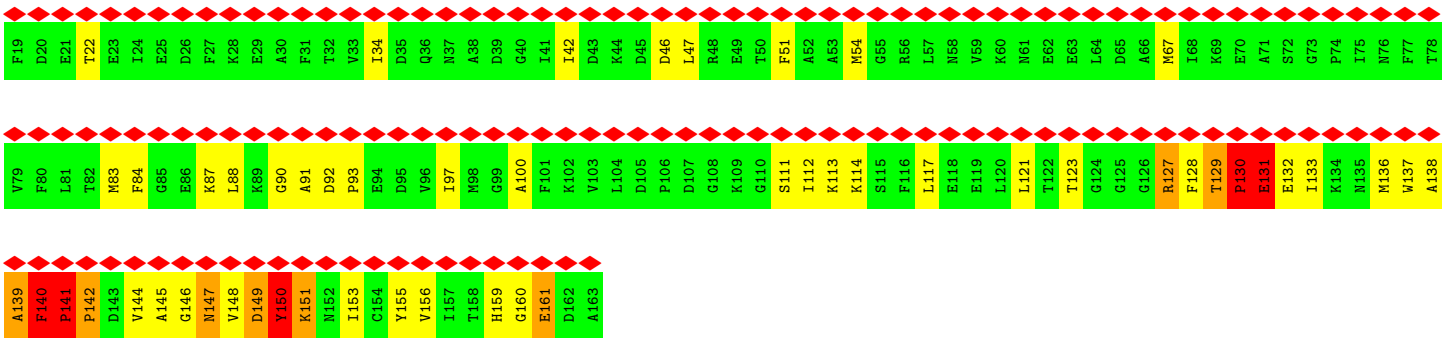
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain K:



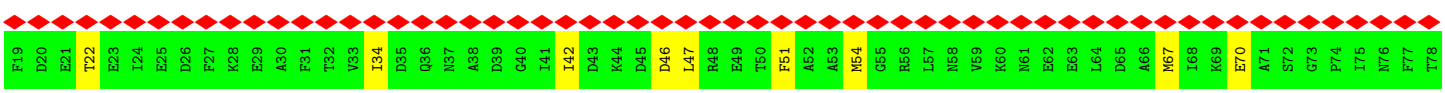
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

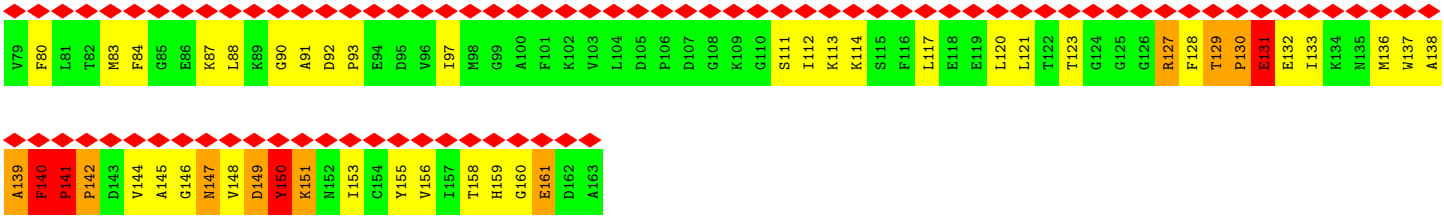
Chain N:



• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

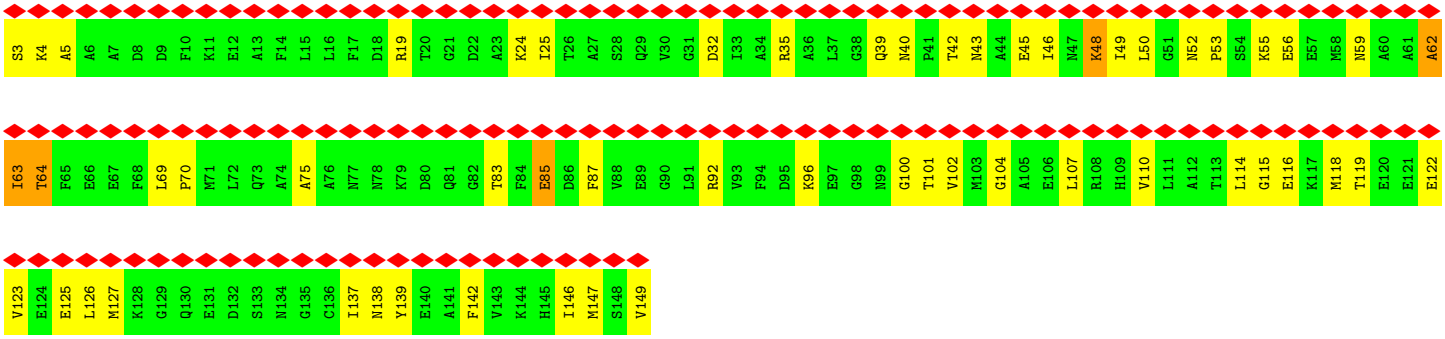
Chain Q:





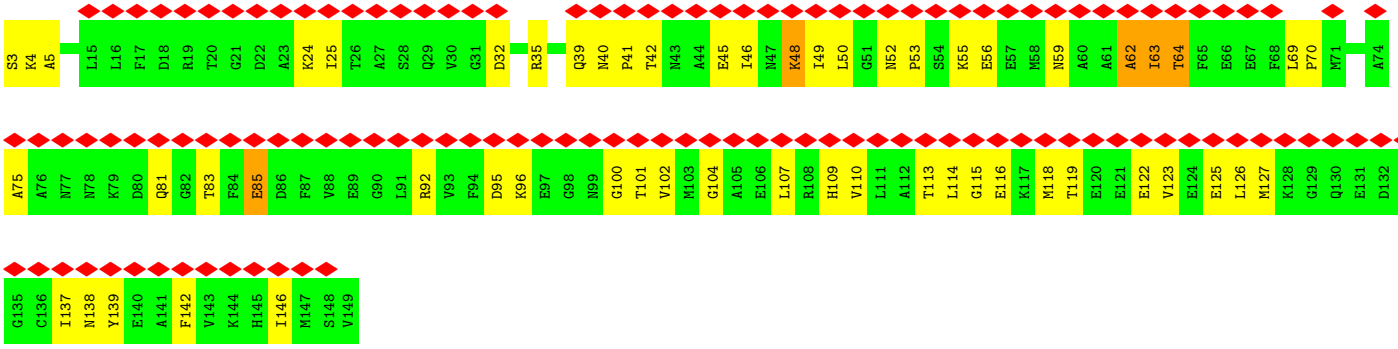
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain F:



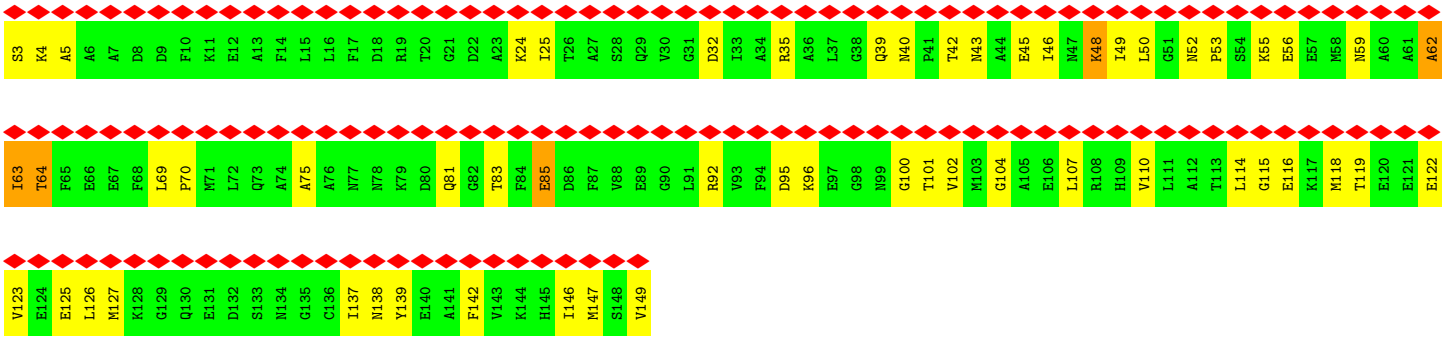
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain I:



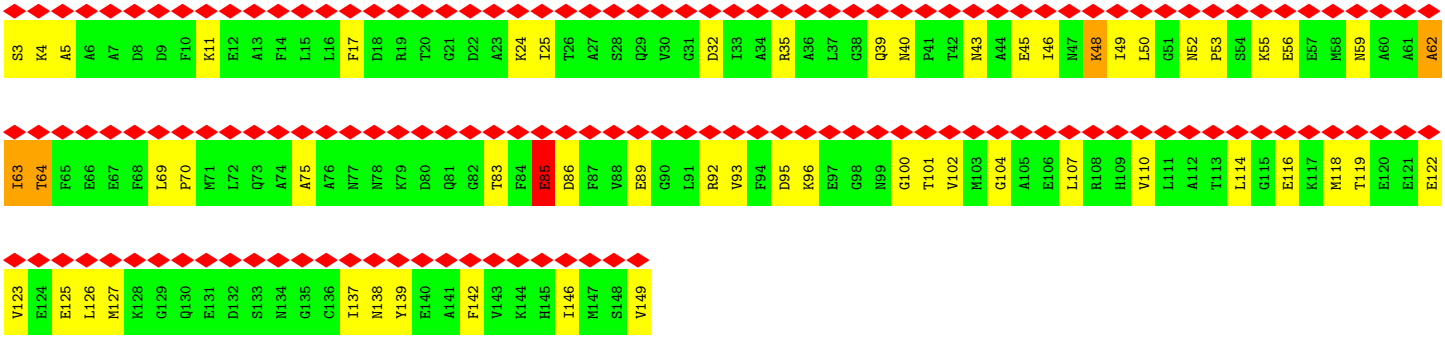
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain L:



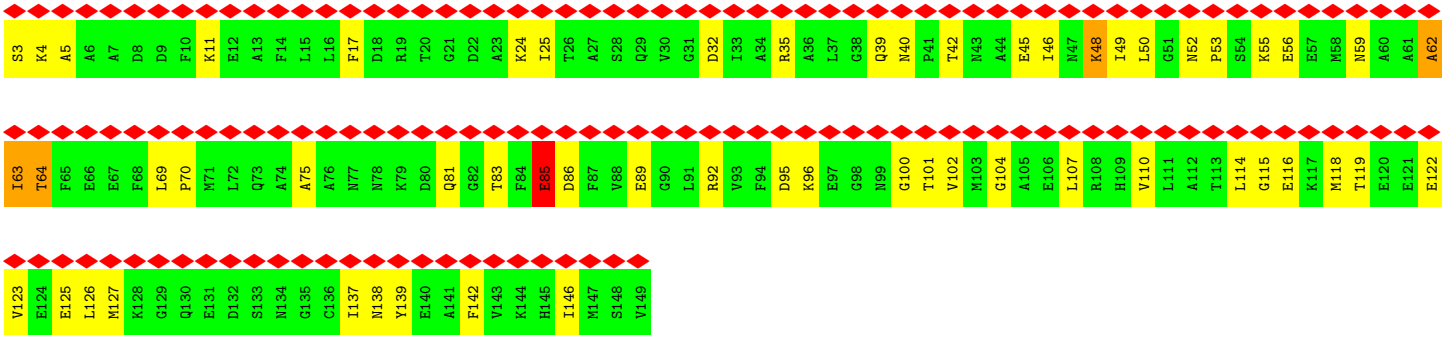
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain O:



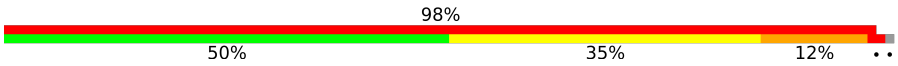
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

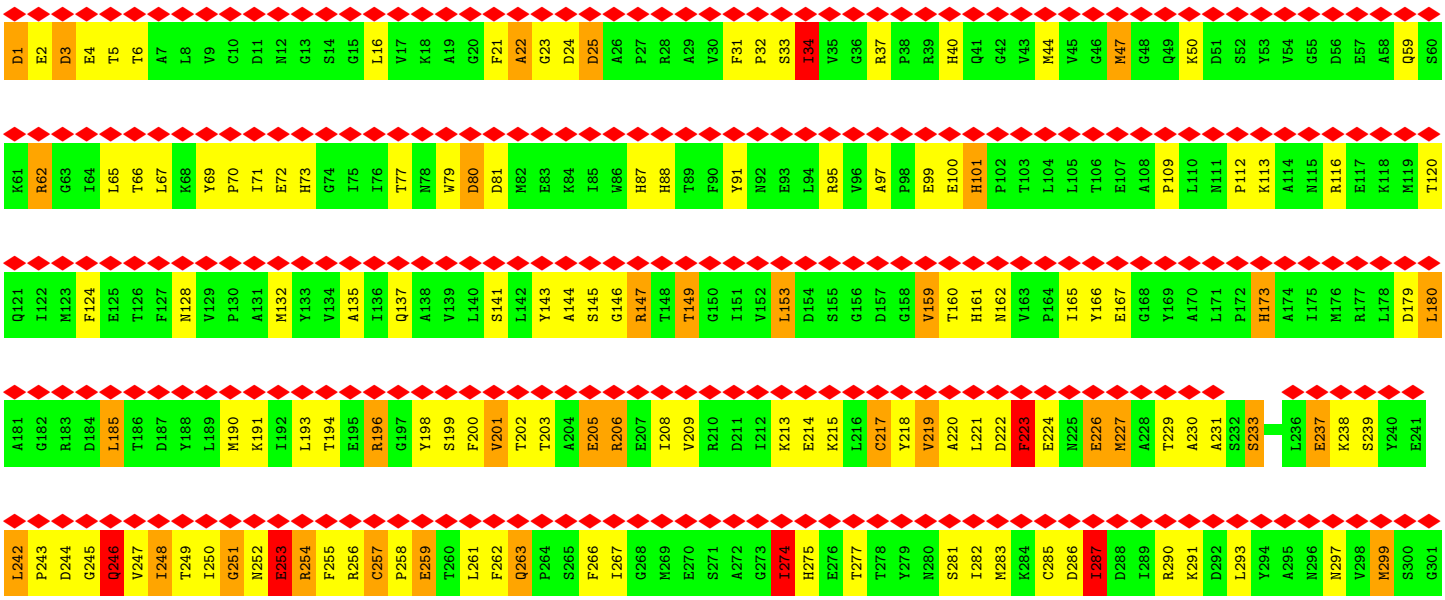
Chain R:

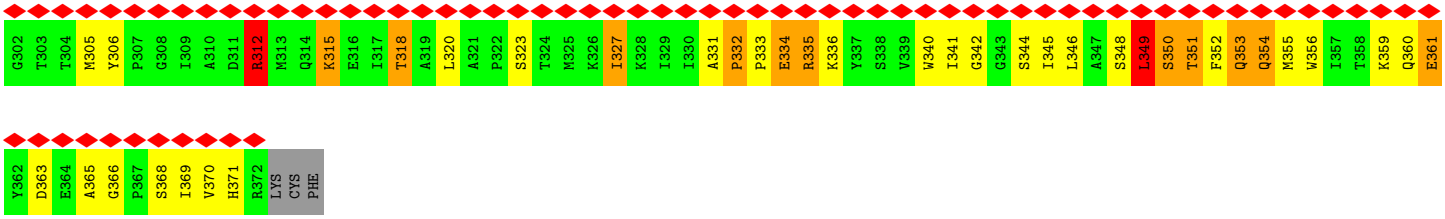


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 1:

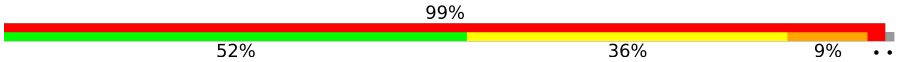


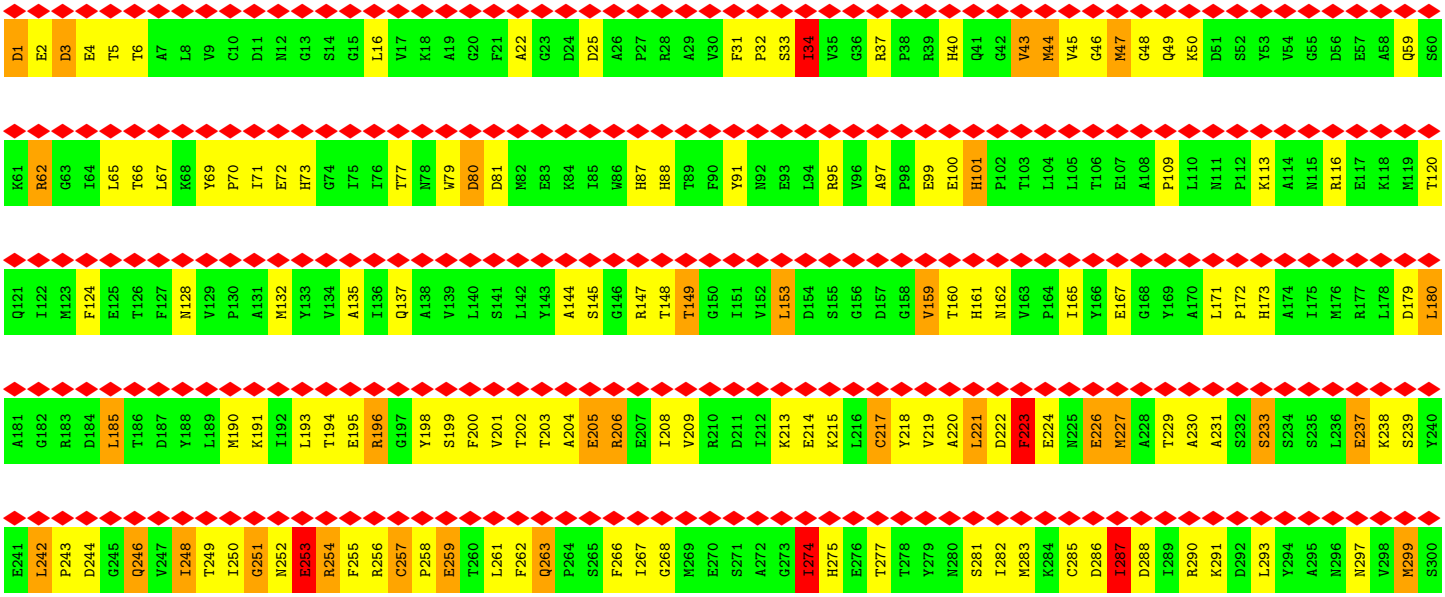




• Molecule 4: SKELETAL MUSCLE ACTIN

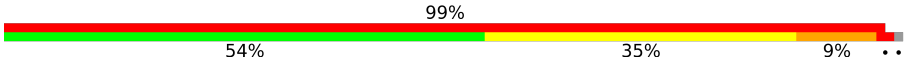
Chain 2:

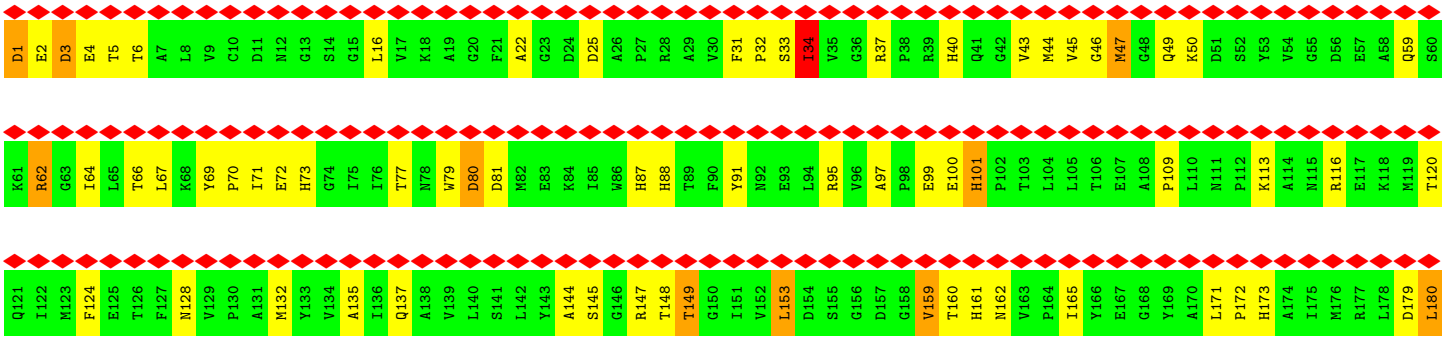


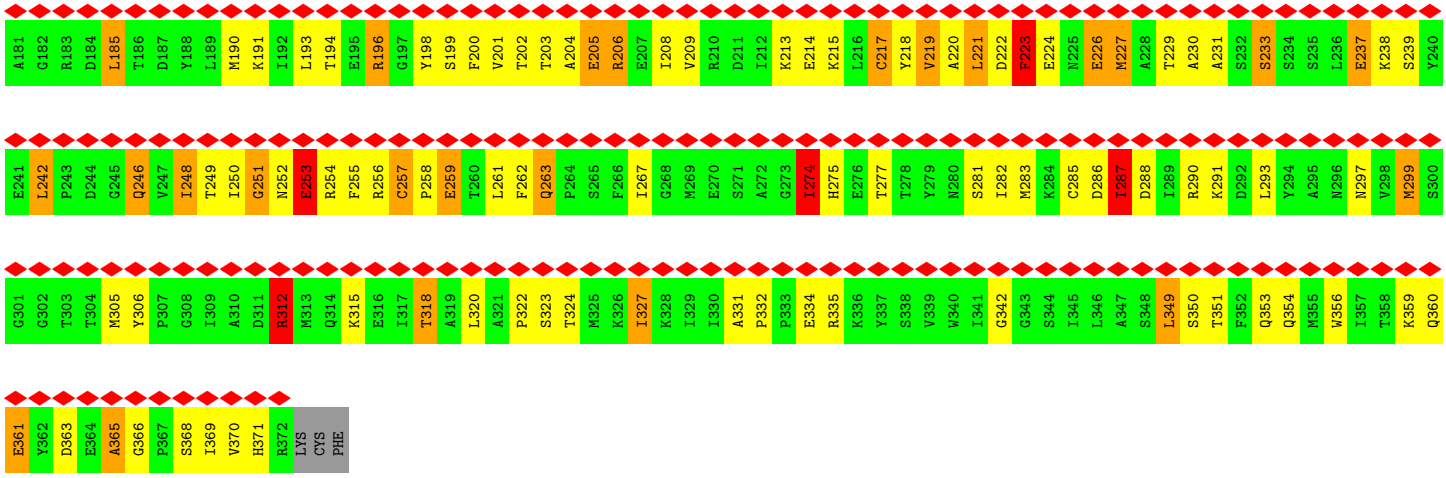


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 3:

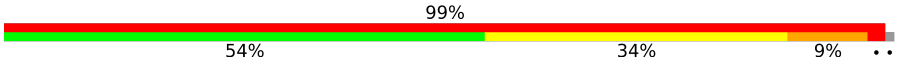


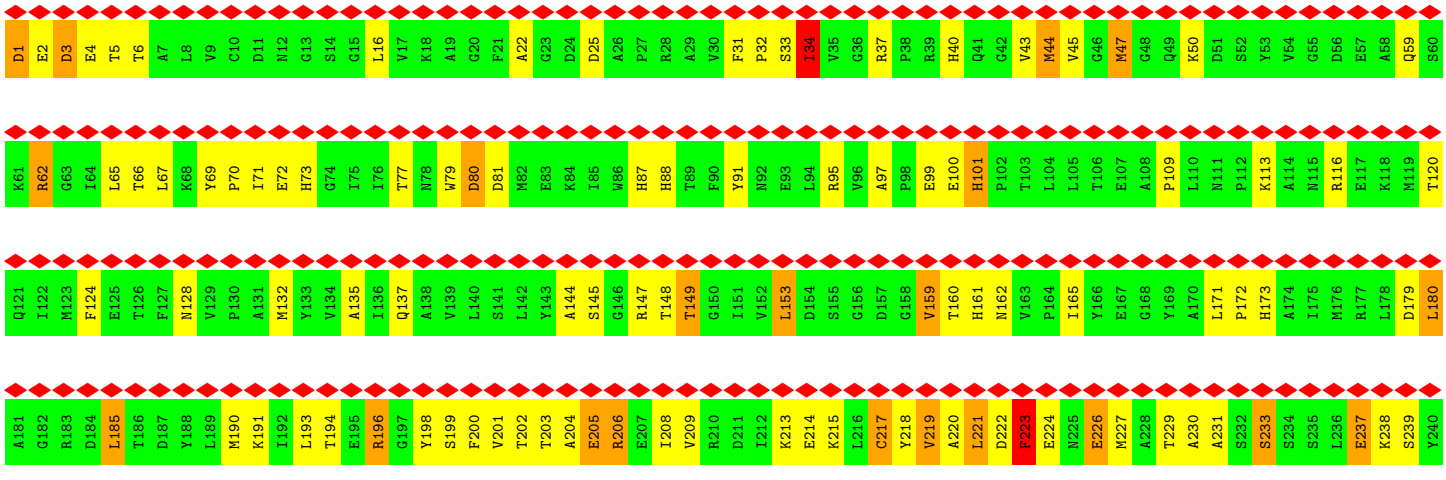




• Molecule 4: SKELETAL MUSCLE ACTIN

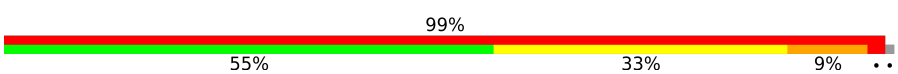
Chain 4:

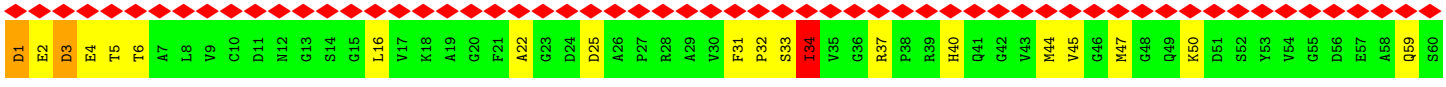


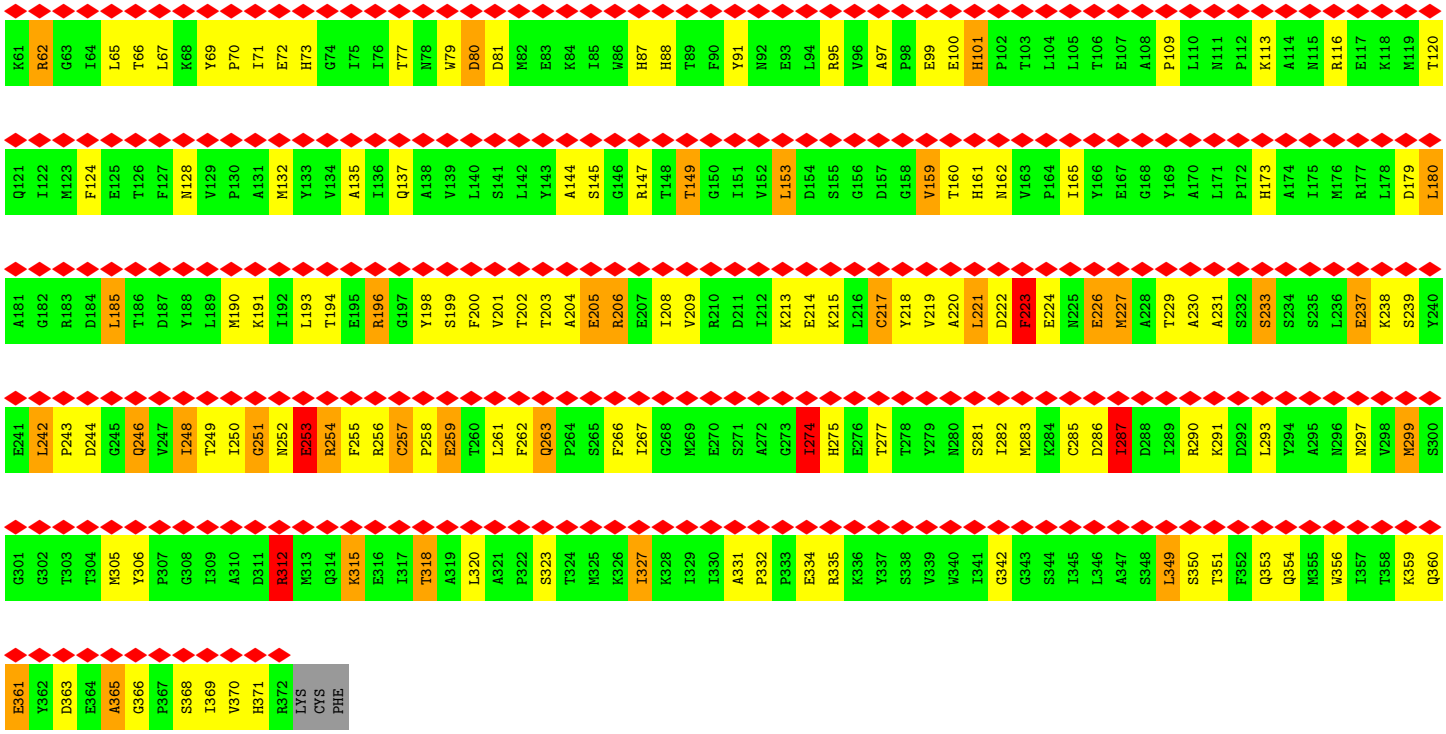


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 5:

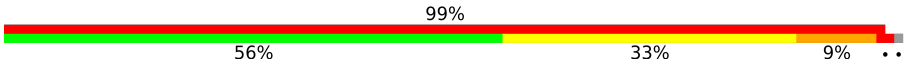


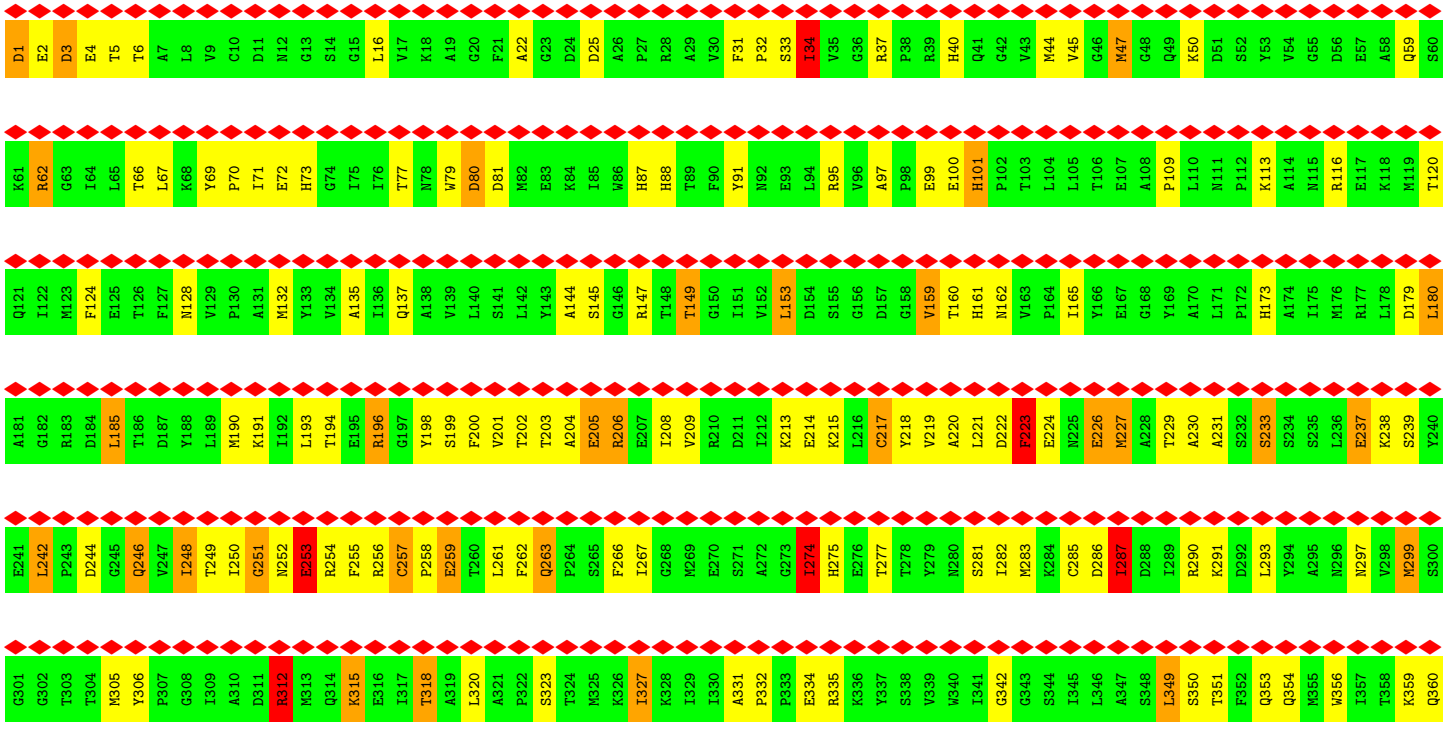




- Molecule 4: SKELETAL MUSCLE ACTIN

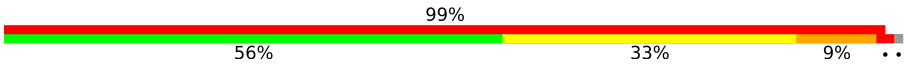
Chain 6:

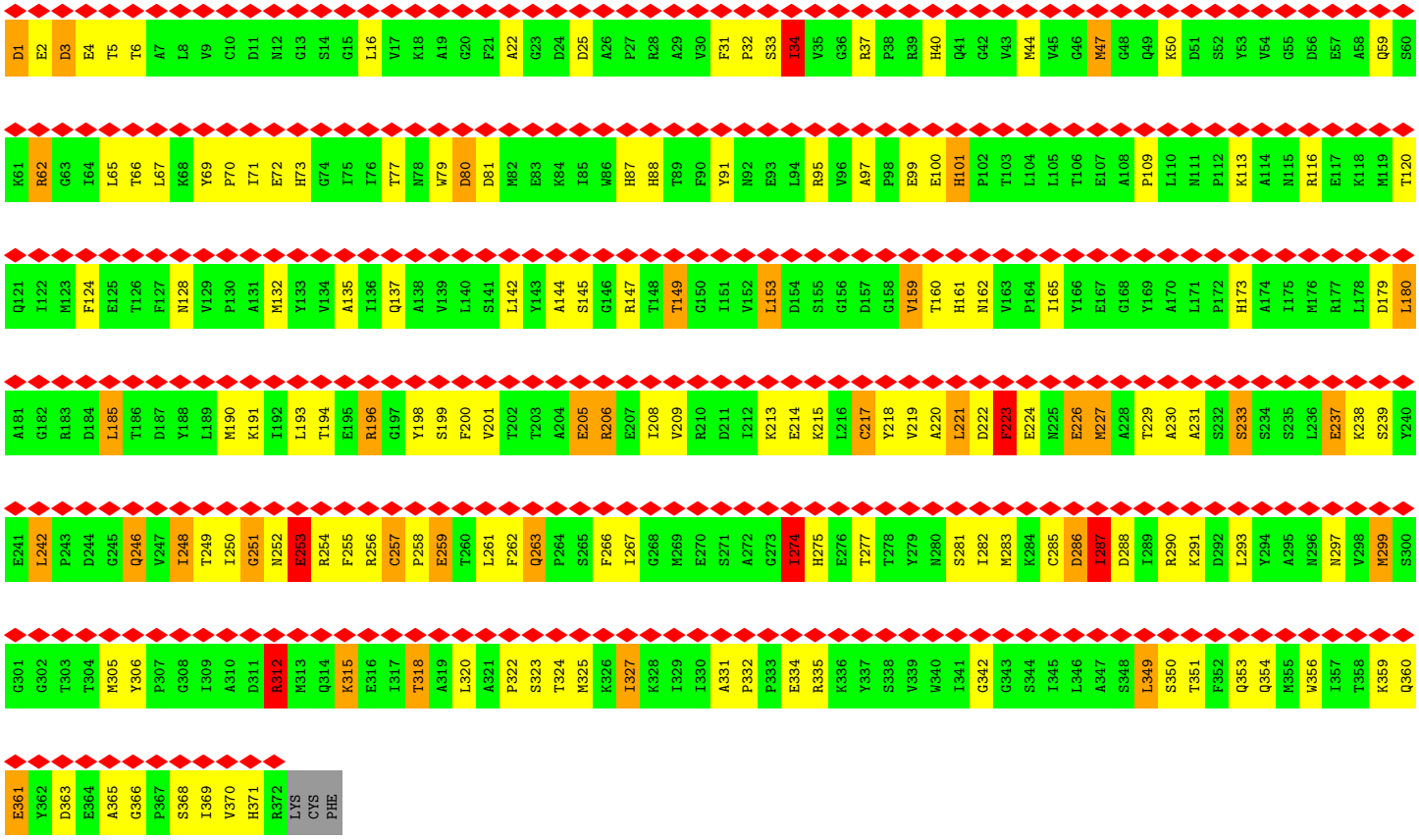




• Molecule 4: SKELETAL MUSCLE ACTIN

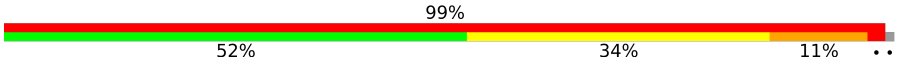
Chain 7:

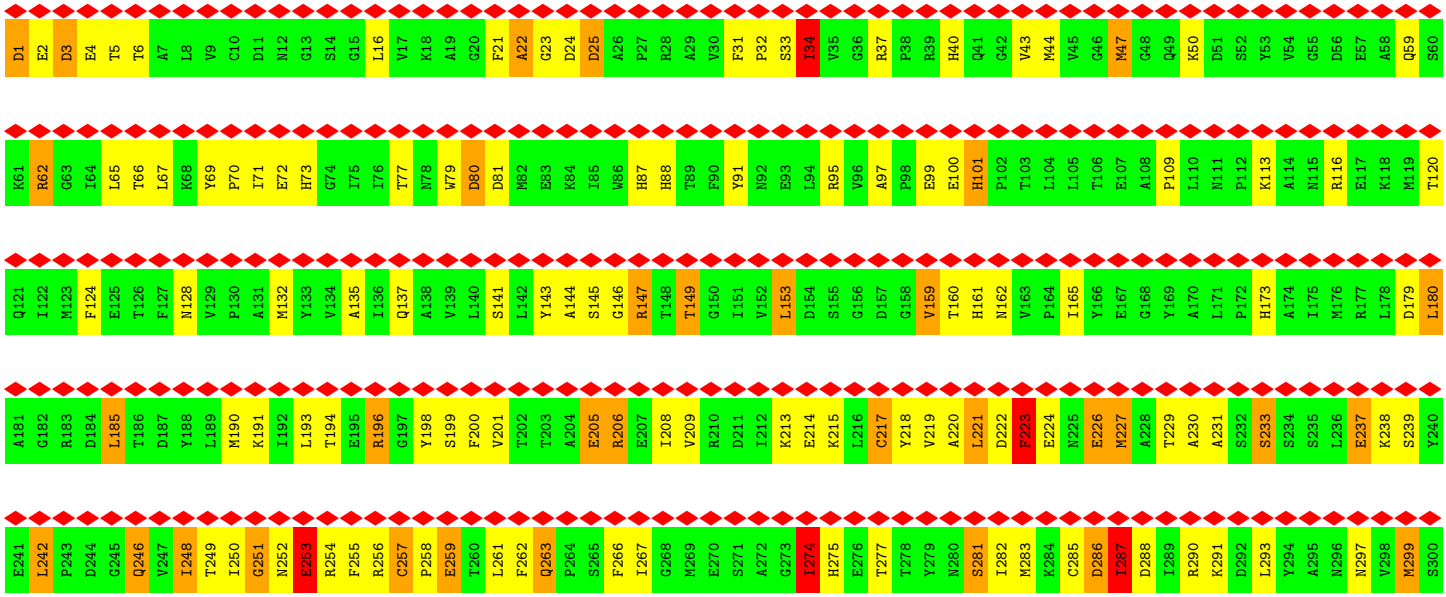


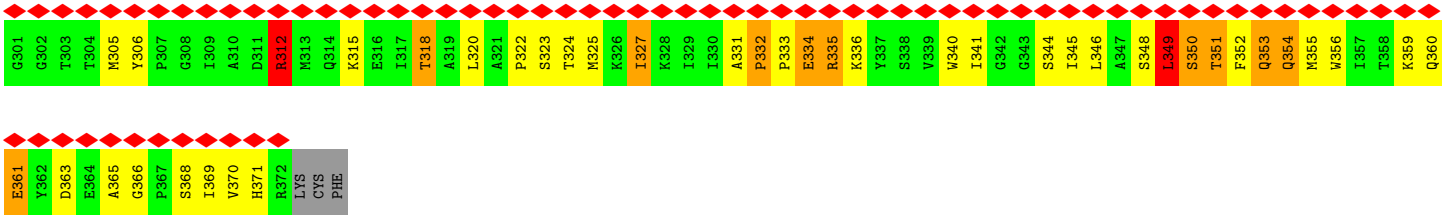


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 8:

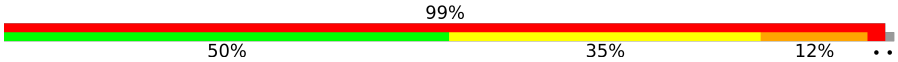


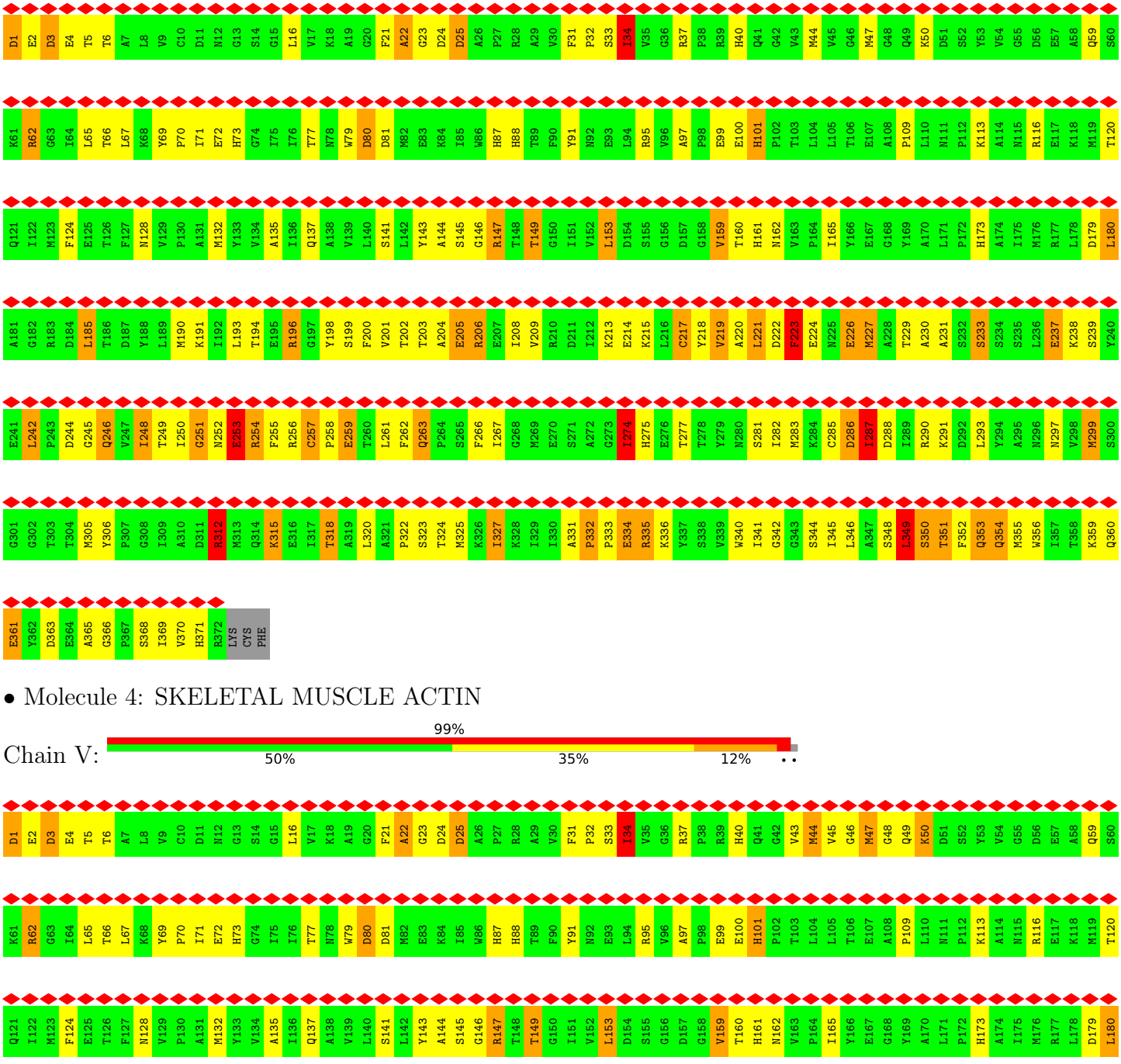




• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 9:



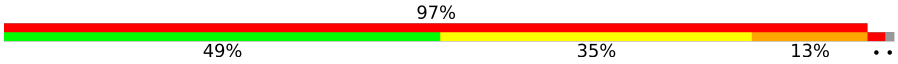


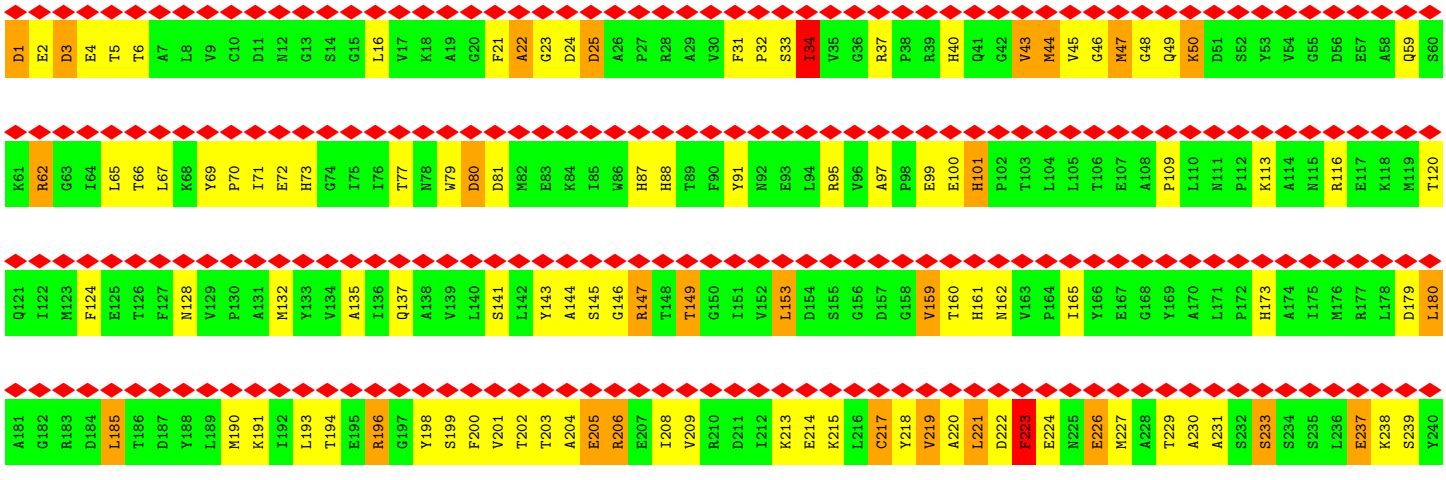
• Molecule 4: SKELETAL MUSCLE ACTIN

Chain V:

• Molecule 4: SKELETAL MUSCLE ACTIN

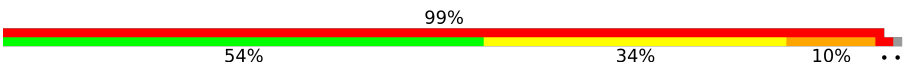
Chain W:

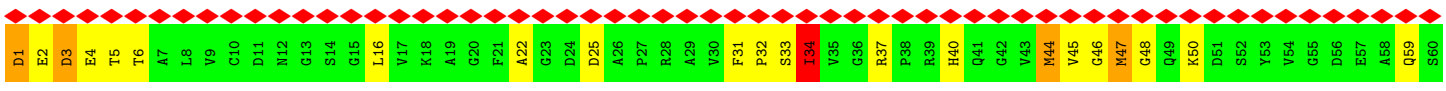


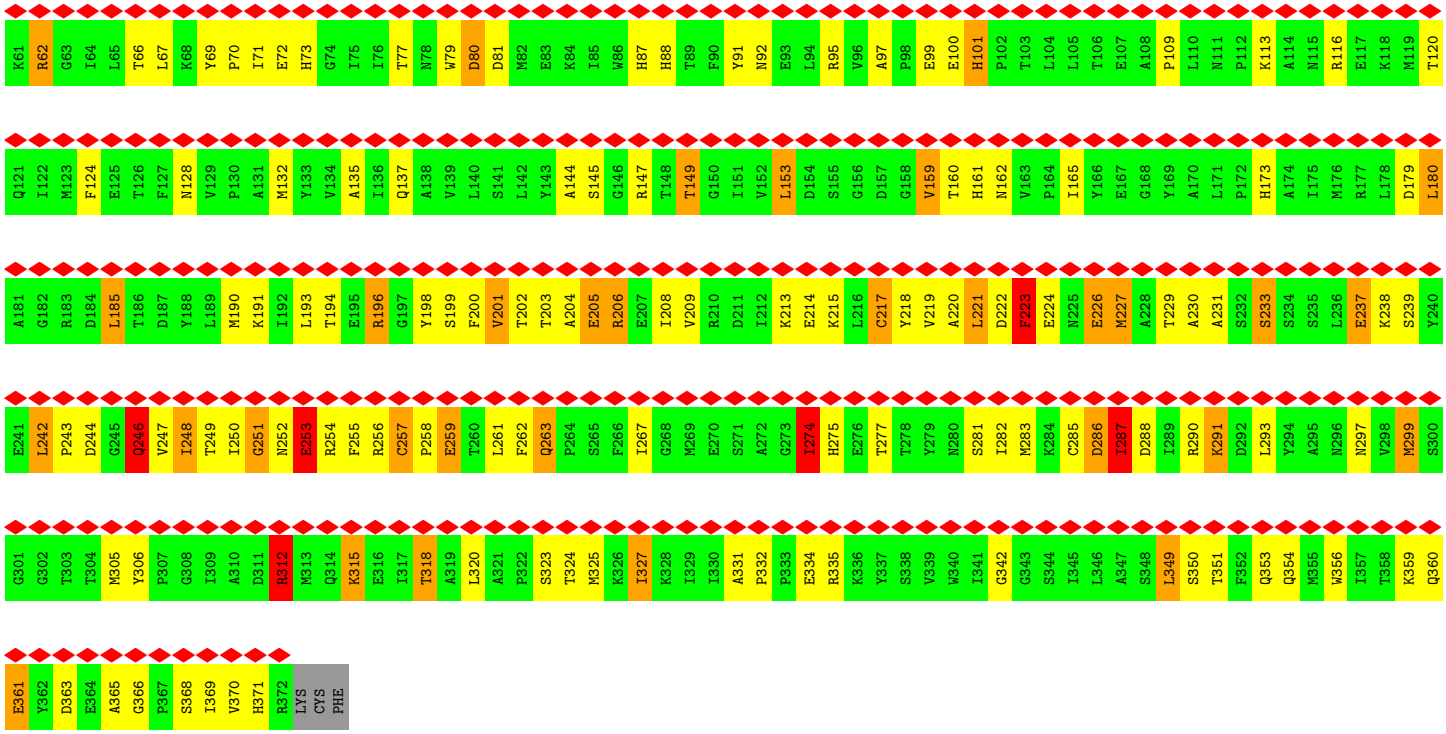


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain X:

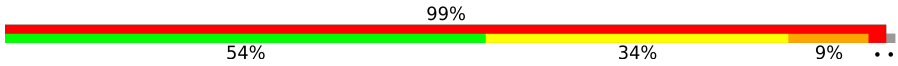


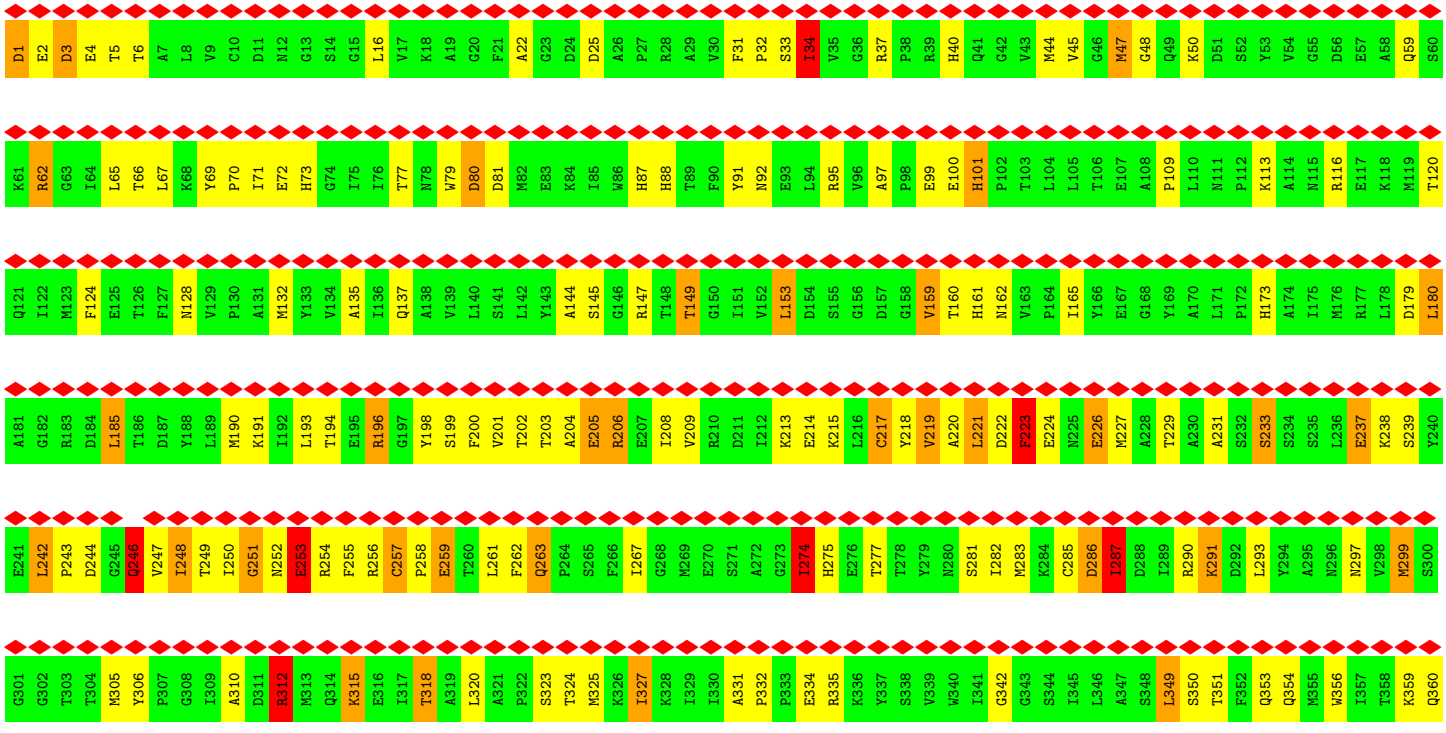




- Molecule 4: SKELETAL MUSCLE ACTIN

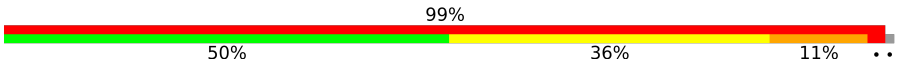
Chain Y:

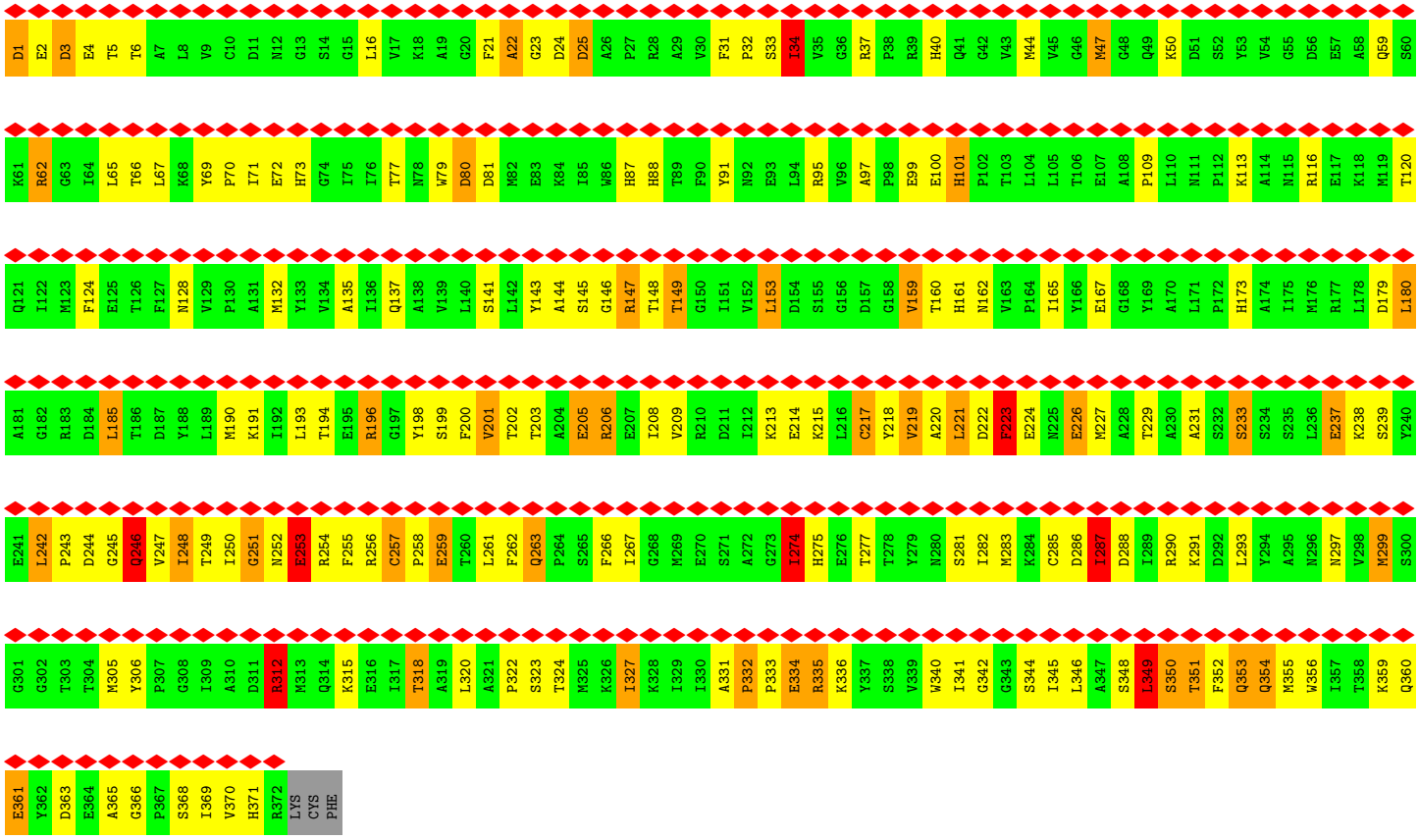




• Molecule 4: SKELETAL MUSCLE ACTIN

Chain Z:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of tilted images used	Not provided	
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI/PHILIPS EM400	Depositor
Voltage (kV)	100	Depositor
Electron dose ($e^-/Å^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	17000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum voxel value	366.680	Depositor
Minimum voxel value	-417.992	Depositor
Average voxel value	1.860	Depositor
Voxel value standard deviation	47.792	Depositor
Recommended contour level	81.2	Depositor
Tomogram size (Å)	9280, 9280, 464	wwPDB
Tomogram dimensions	600, 600, 30	wwPDB
Tomogram angles (°)	90, 90, 90	wwPDB
Grid spacing (Å)	15.4667, 15.4667, 15.4667	Depositor

5 Model quality

5.1 Standard geometry

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

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	1.84	39/6448 (0.6%)	2.12	150/8729 (1.7%)
1	D	1.84	40/6448 (0.6%)	2.12	149/8729 (1.7%)
1	G	1.85	44/6449 (0.7%)	2.13	154/8732 (1.8%)
1	J	1.86	42/6449 (0.7%)	2.22	151/8732 (1.7%)
1	M	1.90	42/6447 (0.7%)	2.25	154/8726 (1.8%)
1	P	1.87	42/6448 (0.7%)	2.27	157/8729 (1.8%)
2	E	1.35	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	H	1.37	15/1148 (1.3%)	1.47	21/1548 (1.4%)
2	K	1.37	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	N	1.37	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	Q	1.37	14/1148 (1.2%)	1.47	21/1548 (1.4%)
3	F	0.88	4/1136 (0.4%)	1.18	6/1525 (0.4%)
3	I	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	L	0.88	4/1136 (0.4%)	1.18	6/1525 (0.4%)
3	O	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	R	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
4	1	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	2	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	3	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	4	1.16	13/2968 (0.4%)	2.00	96/4023 (2.4%)
4	5	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	6	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	7	1.17	13/2968 (0.4%)	2.00	101/4023 (2.5%)
4	8	1.17	13/2968 (0.4%)	2.01	100/4023 (2.5%)
4	9	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	V	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	W	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	X	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
4	Y	1.16	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	Z	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
All	All	1.50	528/91661 (0.6%)	2.02	2428/124064 (2.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	4
1	D	1	4
1	G	2	4
1	J	1	6
1	M	1	7
1	P	1	8
2	E	0	3
2	H	0	3
2	K	0	3
2	N	0	3
2	Q	0	3
3	F	0	2
3	I	0	2
3	L	0	2
3	O	0	2
3	R	0	2
4	1	0	1
4	2	0	1
4	3	0	1
4	4	0	1
4	5	0	1
4	6	0	1
4	7	0	1
4	8	0	1
4	9	0	1
4	V	0	1
4	W	0	1
4	X	0	1
4	Y	0	1
4	Z	0	1
All	All	7	72

All (528) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	648	THR	CB-OG1	42.69	2.12	1.43
1	G	648	THR	CB-OG1	42.68	2.12	1.43
1	J	648	THR	CB-OG1	42.67	2.12	1.43
1	A	648	THR	CB-OG1	42.66	2.12	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	648	THR	CB-OG1	42.66	2.12	1.43
1	M	648	THR	CB-OG1	42.65	2.12	1.43
1	P	623	PHE	CB-CG	35.89	2.33	1.50
1	J	623	PHE	CB-CG	35.89	2.33	1.50
1	D	623	PHE	CB-CG	35.88	2.33	1.50
1	G	623	PHE	CB-CG	35.85	2.33	1.50
1	M	623	PHE	CB-CG	35.85	2.33	1.50
1	A	623	PHE	CB-CG	35.84	2.33	1.50
1	G	649	VAL	CB-CG1	34.04	2.64	1.52
1	M	649	VAL	CB-CG1	34.03	2.64	1.52
1	P	649	VAL	CB-CG1	34.01	2.64	1.52
1	J	649	VAL	CB-CG1	34.00	2.64	1.52
1	A	649	VAL	CB-CG1	33.97	2.64	1.52
1	D	649	VAL	CB-CG1	33.95	2.64	1.52
1	M	805	ALA	C-N	33.35	1.80	1.33
1	A	648	THR	CB-CG2	-30.76	0.51	1.52
1	P	648	THR	CB-CG2	-30.76	0.51	1.52
1	M	648	THR	CB-CG2	-30.76	0.51	1.52
1	J	648	THR	CB-CG2	-30.76	0.51	1.52
1	D	648	THR	CB-CG2	-30.72	0.51	1.52
1	G	648	THR	CB-CG2	-30.68	0.51	1.52
1	A	649	VAL	CB-CG2	29.55	2.50	1.52
1	G	649	VAL	CB-CG2	29.52	2.50	1.52
1	P	649	VAL	CB-CG2	29.48	2.49	1.52
1	J	649	VAL	CB-CG2	29.47	2.49	1.52
1	M	649	VAL	CB-CG2	29.47	2.49	1.52
1	D	649	VAL	CB-CG2	29.45	2.49	1.52
1	P	806	MET	C-N	25.11	1.67	1.33
1	A	649	VAL	C-N	-21.94	1.02	1.33
1	G	649	VAL	C-N	-21.91	1.03	1.33
1	D	649	VAL	C-N	-21.83	1.03	1.33
1	M	649	VAL	C-N	-21.79	1.03	1.33
1	J	649	VAL	C-N	-21.75	1.03	1.33
1	P	649	VAL	C-N	-21.74	1.03	1.33
2	E	140	PHE	C-N	-20.16	1.09	1.33
2	N	140	PHE	C-N	-20.04	1.09	1.33
2	K	140	PHE	C-N	-20.03	1.09	1.33
2	Q	140	PHE	C-N	-19.95	1.09	1.33
2	H	140	PHE	C-N	-19.80	1.10	1.33
1	P	637	LYS	C-N	-18.88	1.05	1.33
1	D	637	LYS	C-N	-18.81	1.06	1.33
1	M	806	MET	C-N	18.79	1.59	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	637	LYS	C-N	-18.79	1.06	1.33
1	M	637	LYS	C-N	-18.78	1.06	1.33
1	G	637	LYS	C-N	-18.55	1.06	1.33
1	A	637	LYS	C-N	-18.52	1.06	1.33
1	J	709	LYS	C-N	15.55	1.56	1.33
1	J	785	GLU	C-N	15.14	1.54	1.33
1	P	622	LEU	C-N	13.19	1.54	1.33
1	D	622	LEU	C-N	13.12	1.54	1.33
1	J	622	LEU	C-N	13.11	1.54	1.33
1	P	805	ALA	C-N	-13.10	1.16	1.33
1	M	622	LEU	C-N	13.10	1.54	1.33
1	A	622	LEU	C-N	13.07	1.53	1.33
1	G	622	LEU	C-N	13.02	1.53	1.33
1	G	709	LYS	C-N	11.66	1.50	1.33
2	N	150	TYR	CA-CB	-11.50	1.35	1.53
1	G	785	GLU	C-N	11.46	1.49	1.33
2	Q	150	TYR	CA-CB	-11.40	1.35	1.53
2	K	150	TYR	CA-CB	-11.39	1.35	1.53
2	H	150	TYR	CA-CB	-11.38	1.35	1.53
1	D	201	ALA	CA-C	-11.00	1.47	1.53
2	K	150	TYR	N-CA	-10.68	1.33	1.46
2	H	150	TYR	N-CA	-10.66	1.33	1.46
2	Q	150	TYR	N-CA	-10.66	1.33	1.46
2	N	150	TYR	N-CA	-10.61	1.34	1.46
1	P	201	ALA	CA-C	-10.59	1.47	1.53
1	A	201	ALA	CA-C	-10.50	1.47	1.53
2	N	141	PRO	N-CD	-10.48	1.33	1.47
2	K	141	PRO	N-CD	-10.46	1.33	1.47
1	M	201	ALA	CA-C	-10.40	1.47	1.53
1	G	201	ALA	CA-C	-10.40	1.47	1.53
2	Q	141	PRO	N-CD	-10.33	1.33	1.47
1	J	201	ALA	CA-C	-10.33	1.48	1.53
2	E	141	PRO	N-CD	-10.28	1.33	1.47
2	H	141	PRO	N-CD	-10.18	1.33	1.47
2	E	150	TYR	CA-CB	-10.18	1.36	1.53
2	E	150	TYR	N-CA	-9.43	1.34	1.46
2	N	150	TYR	CB-CG	-9.12	1.31	1.51
2	Q	150	TYR	CB-CG	-9.12	1.31	1.51
2	H	150	TYR	CB-CG	-9.08	1.31	1.51
2	K	150	TYR	CB-CG	-9.05	1.31	1.51
2	E	150	TYR	CB-CG	-9.01	1.31	1.51
2	K	131	GLU	N-CA	8.60	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	218	LEU	C-N	-8.59	1.21	1.33
1	A	218	LEU	C-N	-8.58	1.21	1.33
1	P	218	LEU	C-N	-8.58	1.21	1.33
1	J	218	LEU	C-N	-8.56	1.21	1.33
1	M	218	LEU	C-N	-8.56	1.21	1.33
2	H	131	GLU	N-CA	8.54	1.57	1.46
2	N	131	GLU	N-CA	8.53	1.57	1.46
1	G	218	LEU	C-N	-8.50	1.21	1.33
2	Q	131	GLU	N-CA	8.50	1.57	1.46
2	E	131	GLU	N-CA	8.44	1.57	1.46
2	H	149	ASP	C-N	-8.14	1.23	1.33
2	Q	149	ASP	C-N	-8.04	1.23	1.33
2	K	149	ASP	C-N	-7.99	1.23	1.33
1	G	218	LEU	CB-CG	7.96	1.69	1.53
2	N	149	ASP	C-N	-7.95	1.23	1.33
1	A	218	LEU	CB-CG	7.84	1.69	1.53
1	J	218	LEU	CB-CG	7.81	1.69	1.53
1	M	218	LEU	CB-CG	7.80	1.69	1.53
1	D	218	LEU	CB-CG	7.78	1.69	1.53
1	P	218	LEU	CB-CG	7.74	1.69	1.53
4	7	101	HIS	CD2-NE2	-7.48	1.29	1.37
3	R	63	ILE	CA-CB	7.43	1.66	1.55
4	Z	101	HIS	CD2-NE2	-7.43	1.29	1.37
4	4	101	HIS	CD2-NE2	-7.41	1.29	1.37
4	1	101	HIS	CD2-NE2	-7.40	1.29	1.37
4	9	101	HIS	CD2-NE2	-7.40	1.29	1.37
3	L	63	ILE	CA-CB	7.39	1.66	1.55
4	6	101	HIS	CD2-NE2	-7.39	1.29	1.37
4	2	101	HIS	CD2-NE2	-7.36	1.29	1.37
4	Y	101	HIS	CD2-NE2	-7.36	1.29	1.37
2	Q	140	PHE	CA-C	-7.35	1.43	1.52
4	4	88	HIS	CD2-NE2	-7.34	1.29	1.37
4	5	101	HIS	CD2-NE2	-7.34	1.29	1.37
2	H	140	PHE	CA-C	-7.34	1.43	1.52
4	X	101	HIS	CD2-NE2	-7.34	1.29	1.37
4	V	101	HIS	CD2-NE2	-7.34	1.29	1.37
4	8	88	HIS	CD2-NE2	-7.33	1.29	1.37
3	F	63	ILE	CA-CB	7.32	1.66	1.55
4	W	101	HIS	CD2-NE2	-7.32	1.29	1.37
4	8	101	HIS	CD2-NE2	-7.31	1.29	1.37
4	6	87	HIS	CD2-NE2	-7.30	1.29	1.37
4	Z	88	HIS	CD2-NE2	-7.29	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	O	63	ILE	CA-CB	7.29	1.66	1.55
4	7	88	HIS	CD2-NE2	-7.29	1.29	1.37
4	X	88	HIS	CD2-NE2	-7.28	1.29	1.37
4	8	87	HIS	CD2-NE2	-7.27	1.29	1.37
4	3	101	HIS	CD2-NE2	-7.26	1.29	1.37
4	7	87	HIS	CD2-NE2	-7.26	1.29	1.37
4	X	87	HIS	CD2-NE2	-7.25	1.29	1.37
4	5	87	HIS	CD2-NE2	-7.25	1.29	1.37
4	W	88	HIS	CD2-NE2	-7.25	1.29	1.37
1	P	496	PHE	C-N	-7.25	1.24	1.33
4	9	88	HIS	CD2-NE2	-7.25	1.29	1.37
4	2	87	HIS	CD2-NE2	-7.25	1.29	1.37
1	M	496	PHE	C-N	-7.24	1.24	1.33
4	2	88	HIS	CD2-NE2	-7.24	1.29	1.37
4	6	88	HIS	CD2-NE2	-7.24	1.29	1.37
4	1	88	HIS	CD2-NE2	-7.24	1.29	1.37
1	D	496	PHE	C-N	-7.23	1.24	1.33
2	N	140	PHE	CA-C	-7.23	1.43	1.52
1	J	496	PHE	C-N	-7.23	1.24	1.33
4	Y	275	HIS	CD2-NE2	-7.22	1.29	1.37
2	K	140	PHE	CA-C	-7.22	1.43	1.52
3	I	63	ILE	CA-CB	7.21	1.66	1.55
4	3	87	HIS	CD2-NE2	-7.21	1.29	1.37
4	3	88	HIS	CD2-NE2	-7.21	1.29	1.37
4	5	275	HIS	CD2-NE2	-7.21	1.29	1.37
4	W	87	HIS	CD2-NE2	-7.21	1.29	1.37
4	V	88	HIS	CD2-NE2	-7.21	1.29	1.37
4	V	87	HIS	CD2-NE2	-7.20	1.29	1.37
4	Z	275	HIS	CD2-NE2	-7.20	1.29	1.37
4	5	88	HIS	CD2-NE2	-7.19	1.29	1.37
4	4	275	HIS	CD2-NE2	-7.18	1.29	1.37
2	E	149	ASP	C-N	-7.17	1.23	1.33
4	6	275	HIS	CD2-NE2	-7.17	1.29	1.37
4	3	275	HIS	CD2-NE2	-7.16	1.29	1.37
4	4	87	HIS	CD2-NE2	-7.16	1.29	1.37
4	7	275	HIS	CD2-NE2	-7.16	1.29	1.37
4	Y	88	HIS	CD2-NE2	-7.15	1.29	1.37
4	V	275	HIS	CD2-NE2	-7.14	1.29	1.37
4	Y	87	HIS	CD2-NE2	-7.14	1.29	1.37
4	9	275	HIS	CD2-NE2	-7.14	1.30	1.37
4	2	275	HIS	CD2-NE2	-7.13	1.30	1.37
4	1	275	HIS	CD2-NE2	-7.13	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	X	275	HIS	CD2-NE2	-7.13	1.30	1.37
4	Z	87	HIS	CD2-NE2	-7.12	1.30	1.37
1	A	496	PHE	C-N	-7.11	1.25	1.33
2	E	140	PHE	CA-C	-7.11	1.43	1.52
1	G	496	PHE	C-N	-7.11	1.25	1.33
4	W	275	HIS	CD2-NE2	-7.10	1.30	1.37
2	H	150	TYR	CG-CD2	-7.08	1.24	1.39
4	9	87	HIS	CD2-NE2	-7.08	1.30	1.37
4	1	40	HIS	CD2-NE2	-7.08	1.30	1.37
2	N	141	PRO	CA-CB	-7.06	1.44	1.54
4	8	40	HIS	CD2-NE2	-7.06	1.30	1.37
4	8	275	HIS	CD2-NE2	-7.04	1.30	1.37
2	Q	150	TYR	CG-CD2	-7.03	1.24	1.39
4	1	87	HIS	CD2-NE2	-7.03	1.30	1.37
4	4	40	HIS	CD2-NE2	-7.03	1.30	1.37
4	6	40	HIS	CD2-NE2	-7.02	1.30	1.37
2	E	150	TYR	CG-CD2	-7.01	1.24	1.39
2	K	141	PRO	CA-CB	-7.00	1.44	1.54
4	9	40	HIS	CD2-NE2	-7.00	1.30	1.37
4	W	40	HIS	CD2-NE2	-6.99	1.30	1.37
2	K	150	TYR	CG-CD2	-6.99	1.24	1.39
4	3	40	HIS	CD2-NE2	-6.97	1.30	1.37
4	Z	40	HIS	CD2-NE2	-6.97	1.30	1.37
4	X	40	HIS	CD2-NE2	-6.96	1.30	1.37
2	H	141	PRO	CA-CB	-6.95	1.44	1.54
2	N	138	ALA	C-N	-6.95	1.23	1.33
2	H	138	ALA	C-N	-6.94	1.23	1.33
4	V	40	HIS	CD2-NE2	-6.94	1.30	1.37
2	N	150	TYR	CG-CD2	-6.93	1.24	1.39
2	E	141	PRO	CA-CB	-6.92	1.44	1.54
1	G	288	PHE	CA-C	-6.91	1.44	1.52
4	Y	40	HIS	CD2-NE2	-6.91	1.30	1.37
2	Q	141	PRO	CA-CB	-6.89	1.44	1.54
2	Q	140	PHE	C-O	-6.88	1.15	1.24
2	N	140	PHE	C-O	-6.88	1.15	1.24
4	7	40	HIS	CD2-NE2	-6.87	1.30	1.37
4	2	40	HIS	CD2-NE2	-6.86	1.30	1.37
2	Q	138	ALA	C-N	-6.83	1.23	1.33
4	5	40	HIS	CD2-NE2	-6.83	1.30	1.37
2	E	138	ALA	C-N	-6.82	1.23	1.33
1	A	288	PHE	CA-C	-6.80	1.44	1.52
1	D	288	PHE	CA-C	-6.80	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	138	ALA	C-N	-6.78	1.23	1.33
1	P	288	PHE	CA-C	-6.77	1.44	1.52
1	A	177	ILE	C-O	-6.76	1.16	1.24
1	A	637	LYS	C-O	6.76	1.32	1.24
1	G	177	ILE	C-O	-6.75	1.16	1.24
1	D	177	ILE	C-O	-6.74	1.16	1.24
1	J	288	PHE	CA-C	-6.72	1.44	1.52
1	M	288	PHE	CA-C	-6.72	1.44	1.52
2	K	140	PHE	C-O	-6.71	1.15	1.24
2	H	140	PHE	C-O	-6.71	1.15	1.24
1	G	637	LYS	C-O	6.69	1.32	1.24
1	P	568	PRO	CA-C	-6.68	1.44	1.52
1	J	568	PRO	CA-C	-6.68	1.44	1.52
1	D	641	LYS	C-N	-6.64	1.25	1.34
1	M	568	PRO	CA-C	-6.62	1.44	1.52
1	J	177	ILE	C-O	-6.61	1.16	1.24
1	M	177	ILE	C-O	-6.61	1.16	1.24
1	M	637	LYS	C-O	6.59	1.32	1.24
1	G	201	ALA	C-N	-6.58	1.24	1.33
4	X	371	HIS	CD2-NE2	-6.58	1.30	1.37
1	J	637	LYS	C-O	6.57	1.32	1.24
4	9	371	HIS	CD2-NE2	-6.56	1.30	1.37
1	D	568	PRO	CA-C	-6.56	1.44	1.52
4	W	371	HIS	CD2-NE2	-6.55	1.30	1.37
1	A	641	LYS	C-N	-6.53	1.25	1.34
1	P	177	ILE	C-O	-6.53	1.16	1.24
1	P	637	LYS	C-O	6.53	1.32	1.24
1	G	568	PRO	CA-C	-6.53	1.44	1.52
2	E	140	PHE	C-O	-6.52	1.15	1.24
4	8	371	HIS	CD2-NE2	-6.51	1.30	1.37
4	2	371	HIS	CD2-NE2	-6.51	1.30	1.37
1	G	496	PHE	C-O	-6.51	1.16	1.24
4	5	371	HIS	CD2-NE2	-6.51	1.30	1.37
1	A	496	PHE	C-O	-6.51	1.16	1.24
1	A	523	ILE	CA-CB	-6.49	1.46	1.54
4	Z	371	HIS	CD2-NE2	-6.49	1.30	1.37
4	Y	371	HIS	CD2-NE2	-6.49	1.30	1.37
1	G	641	LYS	C-N	-6.49	1.25	1.34
1	D	637	LYS	C-O	6.47	1.32	1.24
2	N	123	THR	C-N	-6.46	1.24	1.33
1	M	641	LYS	C-N	-6.46	1.25	1.34
4	1	371	HIS	CD2-NE2	-6.46	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	641	LYS	C-N	-6.45	1.25	1.34
4	2	88	HIS	CG-ND1	-6.45	1.31	1.38
4	3	371	HIS	CD2-NE2	-6.45	1.30	1.37
4	6	88	HIS	CG-ND1	-6.45	1.31	1.38
1	A	568	PRO	CA-C	-6.45	1.44	1.52
4	6	371	HIS	CD2-NE2	-6.44	1.30	1.37
4	1	88	HIS	CG-ND1	-6.44	1.31	1.38
4	4	371	HIS	CD2-NE2	-6.43	1.30	1.37
1	P	641	LYS	C-N	-6.42	1.25	1.34
4	Z	88	HIS	CG-ND1	-6.41	1.31	1.38
4	9	88	HIS	CG-ND1	-6.41	1.31	1.38
4	Y	88	HIS	CG-ND1	-6.41	1.31	1.38
4	6	101	HIS	CG-ND1	-6.39	1.31	1.38
4	W	88	HIS	CG-ND1	-6.39	1.31	1.38
1	P	201	ALA	C-N	-6.39	1.24	1.33
4	1	101	HIS	CG-ND1	-6.38	1.31	1.38
4	7	371	HIS	CD2-NE2	-6.38	1.30	1.37
4	3	88	HIS	CG-ND1	-6.38	1.31	1.38
4	4	101	HIS	CG-ND1	-6.38	1.31	1.38
1	D	523	ILE	CA-CB	-6.37	1.47	1.54
4	4	88	HIS	CG-ND1	-6.36	1.31	1.38
4	X	88	HIS	CG-ND1	-6.36	1.31	1.38
4	8	88	HIS	CG-ND1	-6.36	1.31	1.38
4	7	101	HIS	CG-ND1	-6.36	1.31	1.38
4	8	101	HIS	CG-ND1	-6.36	1.31	1.38
4	X	101	HIS	CG-ND1	-6.35	1.31	1.38
3	I	62	ALA	C-N	-6.35	1.26	1.33
1	J	496	PHE	C-O	-6.34	1.16	1.24
4	V	371	HIS	CD2-NE2	-6.34	1.30	1.37
4	7	88	HIS	CG-ND1	-6.33	1.31	1.38
4	W	101	HIS	CG-ND1	-6.33	1.31	1.38
1	J	201	ALA	C-N	-6.33	1.24	1.33
4	3	101	HIS	CG-ND1	-6.33	1.31	1.38
4	Y	101	HIS	CG-ND1	-6.32	1.31	1.38
1	M	496	PHE	C-O	-6.31	1.16	1.24
1	P	496	PHE	C-O	-6.31	1.16	1.24
4	V	101	HIS	CG-ND1	-6.31	1.31	1.38
1	A	201	ALA	C-N	-6.30	1.24	1.33
1	D	496	PHE	C-O	-6.30	1.16	1.24
2	K	123	THR	C-N	-6.29	1.24	1.33
4	Z	101	HIS	CG-ND1	-6.29	1.31	1.38
1	D	201	ALA	C-N	-6.28	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	523	ILE	CA-CB	-6.27	1.47	1.54
4	V	88	HIS	CG-ND1	-6.27	1.31	1.38
4	2	101	HIS	CG-ND1	-6.26	1.31	1.38
4	5	101	HIS	CG-ND1	-6.26	1.31	1.38
4	5	88	HIS	CG-ND1	-6.25	1.31	1.38
2	Q	123	THR	C-N	-6.24	1.24	1.33
4	9	101	HIS	CG-ND1	-6.24	1.31	1.38
1	M	201	ALA	C-N	-6.24	1.25	1.33
1	P	523	ILE	CA-CB	-6.21	1.47	1.54
1	J	523	ILE	CA-CB	-6.21	1.47	1.54
2	E	123	THR	C-N	-6.18	1.24	1.33
3	L	62	ALA	C-N	-6.18	1.26	1.33
1	M	523	ILE	CA-CB	-6.16	1.47	1.54
3	O	62	ALA	C-N	-6.15	1.26	1.33
3	F	63	ILE	CB-CG1	6.15	1.65	1.53
3	F	62	ALA	C-N	-6.13	1.26	1.33
2	H	123	THR	C-N	-6.09	1.24	1.33
3	R	62	ALA	C-N	-6.07	1.26	1.33
3	L	63	ILE	CB-CG1	6.06	1.65	1.53
3	O	63	ILE	CB-CG1	6.05	1.65	1.53
3	F	64	THR	N-CA	-6.04	1.38	1.46
3	R	64	THR	N-CA	-6.01	1.38	1.45
3	I	64	THR	N-CA	-6.01	1.38	1.46
4	V	173	HIS	CD2-NE2	-6.00	1.31	1.37
3	I	63	ILE	CB-CG1	5.99	1.65	1.53
3	R	63	ILE	CB-CG1	5.99	1.65	1.53
3	L	64	THR	N-CA	-5.97	1.38	1.45
3	O	64	THR	N-CA	-5.96	1.38	1.45
4	2	161	HIS	CD2-NE2	-5.95	1.31	1.37
1	P	358	VAL	C-O	-5.95	1.17	1.24
4	V	161	HIS	CD2-NE2	-5.95	1.31	1.37
4	8	161	HIS	CD2-NE2	-5.94	1.31	1.37
4	8	173	HIS	CD2-NE2	-5.91	1.31	1.37
1	J	358	VAL	C-O	-5.91	1.17	1.24
4	9	161	HIS	CD2-NE2	-5.89	1.31	1.37
1	M	358	VAL	C-O	-5.89	1.17	1.24
1	A	217	THR	N-CA	5.89	1.53	1.45
4	Z	161	HIS	CD2-NE2	-5.89	1.31	1.37
4	7	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	1	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	9	173	HIS	CD2-NE2	-5.88	1.31	1.37
4	Y	161	HIS	CD2-NE2	-5.88	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	6	173	HIS	CD2-NE2	-5.88	1.31	1.37
4	3	173	HIS	CD2-NE2	-5.87	1.31	1.37
4	5	173	HIS	CD2-NE2	-5.87	1.31	1.37
4	7	173	HIS	CD2-NE2	-5.87	1.31	1.37
4	W	161	HIS	CD2-NE2	-5.86	1.31	1.37
1	A	514	ASP	C-O	-5.85	1.17	1.23
4	X	173	HIS	CD2-NE2	-5.85	1.31	1.37
4	2	173	HIS	CD2-NE2	-5.85	1.31	1.37
4	3	161	HIS	CD2-NE2	-5.84	1.31	1.37
4	X	161	HIS	CD2-NE2	-5.83	1.31	1.37
1	G	358	VAL	C-O	-5.82	1.17	1.24
4	5	161	HIS	CD2-NE2	-5.82	1.31	1.37
4	W	173	HIS	CD2-NE2	-5.82	1.31	1.37
4	Z	173	HIS	CD2-NE2	-5.81	1.31	1.37
1	J	514	ASP	C-O	-5.81	1.17	1.23
1	A	434	TYR	CA-CB	-5.80	1.44	1.53
4	4	173	HIS	CD2-NE2	-5.80	1.31	1.37
1	D	514	ASP	C-O	-5.80	1.17	1.23
4	Y	173	HIS	CD2-NE2	-5.78	1.31	1.37
4	1	173	HIS	CD2-NE2	-5.78	1.31	1.37
1	M	514	ASP	C-O	-5.77	1.17	1.23
1	A	358	VAL	C-O	-5.77	1.17	1.24
1	M	434	TYR	CA-CB	-5.76	1.44	1.53
1	P	514	ASP	C-O	-5.74	1.17	1.23
1	P	434	TYR	CA-CB	-5.72	1.44	1.53
1	D	217	THR	N-CA	5.72	1.53	1.45
4	6	161	HIS	CD2-NE2	-5.71	1.31	1.37
1	J	434	TYR	CA-CB	-5.70	1.44	1.53
1	G	514	ASP	C-O	-5.70	1.17	1.23
1	J	625	THR	CB-CG2	5.70	1.71	1.52
1	A	625	THR	CB-CG2	5.69	1.71	1.52
1	D	358	VAL	C-O	-5.68	1.17	1.24
4	4	161	HIS	CD2-NE2	-5.68	1.31	1.37
1	P	217	THR	N-CA	5.68	1.53	1.45
1	G	434	TYR	CA-CB	-5.67	1.44	1.53
1	M	578	HIS	N-CA	5.67	1.53	1.46
1	G	217	THR	N-CA	5.66	1.53	1.45
1	D	625	THR	CB-CG2	5.65	1.71	1.52
1	M	625	THR	CB-CG2	5.65	1.71	1.52
1	M	217	THR	N-CA	5.65	1.53	1.45
1	G	625	THR	CB-CG2	5.64	1.71	1.52
1	P	625	THR	CB-CG2	5.63	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2	275	HIS	CG-ND1	-5.63	1.32	1.38
1	D	434	TYR	CA-CB	-5.62	1.44	1.53
1	J	217	THR	N-CA	5.59	1.52	1.45
1	P	641	LYS	C-O	5.58	1.31	1.24
1	P	578	HIS	N-CA	5.57	1.53	1.46
1	D	578	HIS	N-CA	5.57	1.53	1.46
4	W	275	HIS	CG-ND1	-5.56	1.32	1.38
4	3	275	HIS	CG-ND1	-5.55	1.32	1.38
1	J	578	HIS	N-CA	5.54	1.53	1.46
4	Z	275	HIS	CG-ND1	-5.53	1.32	1.38
1	A	578	HIS	N-CA	5.52	1.53	1.46
4	Y	275	HIS	CG-ND1	-5.52	1.32	1.38
4	6	275	HIS	CG-ND1	-5.51	1.32	1.38
4	8	275	HIS	CG-ND1	-5.51	1.32	1.38
4	5	275	HIS	CG-ND1	-5.50	1.32	1.38
4	9	275	HIS	CG-ND1	-5.50	1.32	1.38
4	4	275	HIS	CG-ND1	-5.49	1.32	1.38
1	J	641	LYS	C-O	5.49	1.31	1.24
4	X	275	HIS	CG-ND1	-5.49	1.32	1.38
1	M	641	LYS	C-O	5.46	1.31	1.24
1	D	641	LYS	C-O	5.45	1.31	1.24
1	G	641	LYS	C-O	5.44	1.31	1.24
4	V	275	HIS	CG-ND1	-5.42	1.32	1.38
4	1	275	HIS	CG-ND1	-5.40	1.32	1.38
4	7	275	HIS	CG-ND1	-5.40	1.32	1.38
1	D	340	ILE	CA-C	-5.40	1.45	1.52
1	D	233	GLY	C-O	-5.40	1.20	1.24
1	G	233	GLY	C-O	-5.39	1.20	1.24
1	A	641	LYS	C-O	5.39	1.30	1.24
2	E	129	THR	N-CA	5.39	1.53	1.46
1	P	340	ILE	CA-C	-5.38	1.45	1.52
2	Q	129	THR	N-CA	5.38	1.53	1.46
1	G	578	HIS	N-CA	5.36	1.53	1.46
2	K	129	THR	N-CA	5.35	1.53	1.46
1	A	233	GLY	C-O	-5.35	1.20	1.24
1	P	233	GLY	C-O	-5.34	1.20	1.24
1	M	340	ILE	CA-C	-5.33	1.45	1.52
1	P	476	GLU	CD-OE1	5.33	1.35	1.25
1	G	340	ILE	CA-C	-5.31	1.45	1.52
1	J	340	ILE	CA-C	-5.30	1.45	1.52
2	N	129	THR	N-CA	5.30	1.53	1.46
1	J	476	GLU	CD-OE1	5.29	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	476	GLU	CD-OE1	5.29	1.35	1.25
1	J	252	ILE	CA-C	-5.29	1.46	1.52
4	7	259	GLU	CA-CB	5.29	1.62	1.53
1	A	671	PHE	C-O	-5.27	1.17	1.23
1	D	476	GLU	CD-OE1	5.26	1.35	1.25
1	P	482	PHE	C-O	-5.26	1.18	1.24
4	1	259	GLU	CA-CB	5.25	1.62	1.53
4	V	259	GLU	CA-CB	5.24	1.62	1.53
1	G	671	PHE	C-O	-5.24	1.17	1.23
1	G	476	GLU	CD-OE1	5.23	1.35	1.25
2	H	129	THR	N-CA	5.23	1.53	1.46
4	5	214	GLU	CA-CB	5.22	1.61	1.53
4	8	259	GLU	CA-CB	5.22	1.62	1.53
1	A	340	ILE	CA-C	-5.22	1.45	1.52
1	G	252	ILE	CA-C	-5.21	1.46	1.52
1	M	482	PHE	C-O	-5.21	1.18	1.24
1	P	785	GLU	C-N	5.21	1.40	1.33
4	6	259	GLU	CA-CB	5.21	1.62	1.53
1	A	476	GLU	CD-OE1	5.20	1.35	1.25
1	D	104	TYR	C-O	-5.20	1.17	1.24
2	N	149	ASP	CA-C	-5.20	1.46	1.53
4	W	259	GLU	CA-CB	5.20	1.62	1.53
4	Y	259	GLU	CA-CB	5.19	1.62	1.53
1	M	104	TYR	C-O	-5.19	1.17	1.24
1	M	233	GLY	C-O	-5.19	1.20	1.24
1	G	104	TYR	C-O	-5.19	1.17	1.24
1	D	252	ILE	CA-C	-5.18	1.46	1.52
1	P	202	SER	CB-OG	5.18	1.52	1.42
4	2	259	GLU	CA-CB	5.18	1.62	1.53
1	P	104	TYR	C-O	-5.18	1.17	1.24
4	Z	259	GLU	CA-CB	5.18	1.62	1.53
1	J	644	SER	C-O	5.17	1.30	1.24
4	9	259	GLU	CA-CB	5.17	1.62	1.53
4	3	259	GLU	CA-CB	5.17	1.62	1.53
4	5	259	GLU	CA-CB	5.17	1.62	1.53
4	4	259	GLU	CA-CB	5.16	1.62	1.53
1	D	619	LEU	CA-C	-5.16	1.46	1.52
4	6	214	GLU	CA-CB	5.16	1.61	1.53
1	G	309	PRO	CA-CB	-5.16	1.46	1.53
1	J	233	GLY	C-O	-5.15	1.20	1.24
1	G	177	ILE	CA-CB	-5.15	1.48	1.54
4	7	214	GLU	CA-CB	5.15	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	766	PHE	N-CA	-5.14	1.39	1.46
4	3	214	GLU	CA-CB	5.14	1.61	1.53
4	Y	214	GLU	CA-CB	5.14	1.61	1.53
1	J	104	TYR	C-O	-5.14	1.17	1.24
2	N	130	PRO	C-N	5.14	1.40	1.33
4	X	259	GLU	CA-CB	5.14	1.62	1.53
1	D	202	SER	CB-OG	5.14	1.52	1.42
1	J	157	SER	CA-C	-5.14	1.46	1.52
4	4	214	GLU	CA-CB	5.13	1.61	1.53
1	A	482	PHE	C-O	-5.12	1.18	1.24
1	J	671	PHE	C-O	-5.12	1.17	1.23
4	X	214	GLU	CA-CB	5.12	1.61	1.53
1	D	309	PRO	CA-CB	-5.12	1.46	1.53
1	J	482	PHE	C-O	-5.12	1.18	1.24
1	M	202	SER	CB-OG	5.12	1.52	1.42
1	P	252	ILE	CA-C	-5.12	1.47	1.52
1	G	482	PHE	C-O	-5.12	1.18	1.24
1	M	671	PHE	C-O	-5.12	1.17	1.23
1	M	644	SER	C-O	5.11	1.30	1.24
4	W	214	GLU	CA-CB	5.11	1.61	1.53
1	J	202	SER	CB-OG	5.11	1.52	1.42
1	M	252	ILE	CA-C	-5.11	1.47	1.52
1	G	619	LEU	CA-C	-5.11	1.46	1.52
1	J	309	PRO	CA-CB	-5.11	1.46	1.53
4	1	214	GLU	CA-CB	5.10	1.61	1.53
1	A	202	SER	CB-OG	5.10	1.52	1.42
1	P	157	SER	CA-C	-5.09	1.46	1.52
4	8	214	GLU	CA-CB	5.09	1.61	1.53
1	P	671	PHE	C-O	-5.09	1.18	1.23
4	2	214	GLU	CA-CB	5.08	1.61	1.53
1	M	309	PRO	CA-CB	-5.08	1.46	1.53
1	P	309	PRO	CA-CB	-5.08	1.46	1.53
1	G	202	SER	CB-OG	5.07	1.52	1.42
1	D	671	PHE	C-O	-5.07	1.18	1.23
1	A	309	PRO	CA-CB	-5.07	1.46	1.53
1	D	482	PHE	C-O	-5.06	1.18	1.24
1	G	644	SER	C-O	5.06	1.30	1.24
1	A	619	LEU	CA-C	-5.06	1.46	1.52
4	9	214	GLU	CA-CB	5.05	1.61	1.53
1	A	252	ILE	CA-C	-5.05	1.47	1.52
1	M	157	SER	CA-C	-5.05	1.46	1.52
4	Z	214	GLU	CA-CB	5.05	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	334	THR	CA-C	-5.05	1.46	1.52
1	D	177	ILE	CA-CB	-5.03	1.48	1.54
1	J	177	ILE	CA-CB	-5.03	1.48	1.54
1	M	177	ILE	CA-CB	-5.03	1.48	1.54
2	E	137	TRP	NE1-CE2	-5.02	1.31	1.37
1	G	411	GLU	CD-OE1	5.02	1.34	1.25
2	K	137	TRP	NE1-CE2	-5.02	1.31	1.37
1	A	766	PHE	N-CA	-5.02	1.39	1.46
2	E	149	ASP	CA-C	-5.02	1.46	1.53
1	M	411	GLU	CD-OE1	5.02	1.34	1.25
1	P	745	GLU	CD-OE2	5.02	1.34	1.25
4	V	214	GLU	CA-CB	5.02	1.61	1.53
1	G	518	ASP	CG-OD1	5.01	1.34	1.25
1	J	619	LEU	CA-C	-5.01	1.46	1.52
1	P	644	SER	C-O	5.01	1.30	1.24
1	D	745	GLU	CD-OE2	5.01	1.34	1.25
1	G	766	PHE	N-CA	-5.01	1.40	1.46
2	H	149	ASP	CA-C	-5.01	1.46	1.53
2	K	149	ASP	CA-C	-5.00	1.46	1.53
1	A	157	SER	CA-C	-5.00	1.46	1.52

All (2428) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	637	LYS	O-C-N	-74.35	23.70	122.59
1	M	637	LYS	O-C-N	-74.31	23.75	122.59
1	D	637	LYS	O-C-N	-74.28	23.79	122.59
1	A	637	LYS	O-C-N	-74.28	23.79	122.59
1	J	637	LYS	O-C-N	-74.27	23.81	122.59
1	P	637	LYS	O-C-N	-74.27	23.81	122.59
1	M	806	MET	O-C-N	-60.00	42.79	122.59
1	J	709	LYS	O-C-N	-59.80	54.98	122.55
1	P	806	MET	O-C-N	-50.78	54.27	122.83
1	J	648	THR	CA-CB-OG1	-44.81	42.38	109.60
1	M	648	THR	CA-CB-OG1	-44.80	42.39	109.60
1	P	648	THR	CA-CB-OG1	-44.81	42.39	109.60
1	D	648	THR	CA-CB-OG1	-44.80	42.41	109.60
1	G	648	THR	CA-CB-OG1	-44.77	42.45	109.60
1	A	648	THR	CA-CB-OG1	-44.76	42.46	109.60
1	P	623	PHE	CA-CB-CG	-29.37	84.43	113.80
1	J	623	PHE	CA-CB-CG	-29.34	84.45	113.80
1	M	623	PHE	CA-CB-CG	-29.30	84.50	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	623	PHE	CA-CB-CG	-29.26	84.54	113.80
1	D	623	PHE	CA-CB-CG	-29.24	84.56	113.80
1	G	623	PHE	CA-CB-CG	-29.20	84.60	113.80
1	P	785	GLU	O-C-N	-28.32	85.52	122.33
1	M	785	GLU	O-C-N	-26.67	91.79	122.20
1	P	805	ALA	CA-C-N	26.27	159.44	123.20
1	P	805	ALA	C-N-CA	26.27	159.44	123.20
1	G	649	VAL	CA-CB-CG1	-24.90	68.07	110.40
1	M	649	VAL	CA-CB-CG1	-24.85	68.15	110.40
1	A	649	VAL	CA-CB-CG1	-24.85	68.16	110.40
1	J	649	VAL	CA-CB-CG1	-24.82	68.21	110.40
1	P	649	VAL	CA-CB-CG1	-24.81	68.22	110.40
1	D	649	VAL	CA-CB-CG1	-24.79	68.26	110.40
1	M	649	VAL	CG1-CB-CG2	-24.70	56.47	110.80
1	A	649	VAL	CG1-CB-CG2	-24.70	56.47	110.80
1	G	649	VAL	CG1-CB-CG2	-24.68	56.50	110.80
1	P	649	VAL	CG1-CB-CG2	-24.68	56.50	110.80
1	D	649	VAL	CG1-CB-CG2	-24.67	56.52	110.80
1	J	649	VAL	CG1-CB-CG2	-24.67	56.53	110.80
1	A	649	VAL	CA-CB-CG2	-24.58	68.62	110.40
1	G	649	VAL	CA-CB-CG2	-24.56	68.64	110.40
1	M	649	VAL	CA-CB-CG2	-24.54	68.69	110.40
1	J	649	VAL	CA-CB-CG2	-24.53	68.70	110.40
1	P	649	VAL	CA-CB-CG2	-24.53	68.70	110.40
1	D	649	VAL	CA-CB-CG2	-24.52	68.71	110.40
1	P	805	ALA	O-C-N	-22.82	90.89	122.37
1	M	648	THR	CA-CB-CG2	-19.99	76.52	110.50
1	D	648	THR	CA-CB-CG2	-19.96	76.57	110.50
1	P	648	THR	CA-CB-CG2	-19.93	76.61	110.50
1	J	648	THR	CA-CB-CG2	-19.90	76.67	110.50
1	A	648	THR	CA-CB-CG2	-19.85	76.76	110.50
1	G	648	THR	CA-CB-CG2	-19.78	76.88	110.50
1	D	728	ASN	O-C-N	16.25	138.26	122.18
1	M	728	ASN	O-C-N	16.24	138.25	122.18
1	P	728	ASN	O-C-N	16.23	138.25	122.18
1	A	728	ASN	O-C-N	16.19	138.21	122.18
1	J	728	ASN	O-C-N	16.10	138.12	122.18
1	G	728	ASN	O-C-N	16.01	138.03	122.18
1	G	709	LYS	O-C-N	15.75	143.59	122.49
3	I	63	ILE	O-C-N	14.19	138.28	122.82
2	H	150	TYR	CD1-CG-CD2	14.18	139.37	118.10
2	E	150	TYR	CD1-CG-CD2	14.16	139.35	118.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	O	63	ILE	O-C-N	14.16	138.25	122.82
2	K	150	TYR	CD1-CG-CD2	14.13	139.30	118.10
3	F	63	ILE	O-C-N	14.13	138.22	122.82
3	L	63	ILE	O-C-N	14.13	138.22	122.82
3	R	63	ILE	O-C-N	14.12	138.21	122.82
2	Q	150	TYR	CD1-CG-CD2	14.11	139.27	118.10
2	N	150	TYR	CD1-CG-CD2	14.03	139.15	118.10
1	G	568	PRO	O-C-N	13.56	139.83	123.01
1	D	568	PRO	O-C-N	13.53	139.79	123.01
1	A	568	PRO	O-C-N	13.51	139.77	123.01
1	M	568	PRO	O-C-N	13.46	139.69	123.01
1	P	568	PRO	O-C-N	13.44	139.67	123.01
1	J	568	PRO	O-C-N	13.42	139.65	123.01
1	M	98	HIS	CB-CA-C	-11.90	87.18	111.22
1	J	98	HIS	CB-CA-C	-11.89	87.20	111.22
1	A	98	HIS	CB-CA-C	-11.86	87.27	111.22
1	P	98	HIS	CB-CA-C	-11.85	87.28	111.22
1	D	98	HIS	CB-CA-C	-11.83	87.31	111.22
1	G	98	HIS	CB-CA-C	-11.83	87.31	111.22
1	P	806	MET	CA-C-N	-11.66	100.98	121.97
1	P	806	MET	C-N-CA	-11.66	100.98	121.97
2	E	150	TYR	CB-CG-CD2	-11.32	103.83	120.80
2	H	150	TYR	CB-CG-CD2	-11.31	103.83	120.80
2	K	150	TYR	CB-CG-CD2	-11.26	103.91	120.80
2	Q	150	TYR	CB-CG-CD2	-11.25	103.92	120.80
2	N	150	TYR	CB-CG-CD2	-11.21	103.98	120.80
1	M	201	ALA	CA-C-O	11.16	125.36	118.33
1	J	201	ALA	CA-C-O	11.13	125.34	118.33
2	H	150	TYR	CG-CD2-CE2	-11.12	104.53	121.20
1	P	201	ALA	CA-C-O	10.96	125.24	118.33
2	E	150	TYR	CG-CD2-CE2	-10.95	104.78	121.20
1	A	201	ALA	CA-C-O	10.94	125.22	118.33
2	N	150	TYR	CG-CD2-CE2	-10.93	104.81	121.20
2	K	150	TYR	CG-CD2-CE2	-10.93	104.81	121.20
2	Q	150	TYR	CG-CD2-CE2	-10.89	104.86	121.20
1	D	201	ALA	CA-C-O	10.87	125.18	118.33
1	G	201	ALA	CA-C-O	10.81	125.14	118.33
1	G	320	ILE	CB-CA-C	-10.69	100.44	110.91
1	J	320	ILE	CB-CA-C	-10.52	100.60	110.91
1	P	320	ILE	CB-CA-C	-10.52	100.60	110.91
1	D	320	ILE	CB-CA-C	-10.50	100.62	110.91
1	M	320	ILE	CB-CA-C	-10.46	100.66	110.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	805	ALA	CA-C-N	-10.41	101.65	121.54
1	M	805	ALA	C-N-CA	-10.41	101.65	121.54
1	A	320	ILE	CB-CA-C	-10.38	100.73	110.91
1	G	653	PHE	CA-CB-CG	-10.38	103.42	113.80
2	K	150	TYR	N-CA-CB	-10.31	93.65	110.77
2	N	150	TYR	N-CA-CB	-10.29	93.70	110.77
2	H	150	TYR	N-CA-CB	-10.24	93.77	110.77
1	M	653	PHE	CA-CB-CG	-10.21	103.59	113.80
1	A	739	ASP	CA-CB-CG	-10.20	102.40	112.60
2	Q	150	TYR	N-CA-CB	-10.20	93.84	110.77
1	M	739	ASP	CA-CB-CG	-10.19	102.41	112.60
1	P	653	PHE	CA-CB-CG	-10.19	103.61	113.80
1	D	653	PHE	CA-CB-CG	-10.18	103.62	113.80
1	D	739	ASP	CA-CB-CG	-10.17	102.43	112.60
1	P	739	ASP	CA-CB-CG	-10.15	102.45	112.60
1	G	739	ASP	CA-CB-CG	-10.14	102.46	112.60
1	A	653	PHE	CA-CB-CG	-10.13	103.67	113.80
1	J	653	PHE	CA-CB-CG	-10.12	103.68	113.80
1	J	739	ASP	CA-CB-CG	-10.11	102.49	112.60
2	Q	141	PRO	CA-N-CD	10.07	126.11	112.00
2	H	141	PRO	CA-N-CD	10.07	126.10	112.00
2	E	141	PRO	CA-N-CD	10.03	126.05	112.00
2	K	141	PRO	CA-N-CD	10.03	126.04	112.00
2	E	150	TYR	N-CA-CB	-9.98	93.62	110.49
2	N	141	PRO	CA-N-CD	9.91	125.88	112.00
1	G	693	HIS	CA-CB-CG	-9.80	104.00	113.80
1	J	693	HIS	CA-CB-CG	-9.79	104.01	113.80
2	K	150	TYR	CG-CD1-CE1	-9.79	106.51	121.20
2	H	150	TYR	CG-CD1-CE1	-9.78	106.52	121.20
1	D	693	HIS	CA-CB-CG	-9.75	104.05	113.80
2	E	150	TYR	CG-CD1-CE1	-9.75	106.57	121.20
1	M	693	HIS	CA-CB-CG	-9.73	104.07	113.80
1	P	693	HIS	CA-CB-CG	-9.71	104.09	113.80
2	N	150	TYR	CG-CD1-CE1	-9.70	106.65	121.20
2	Q	150	TYR	CG-CD1-CE1	-9.70	106.66	121.20
1	A	693	HIS	CA-CB-CG	-9.65	104.15	113.80
1	P	604	ASN	CA-CB-CG	9.46	122.06	112.60
1	G	604	ASN	CA-CB-CG	9.44	122.04	112.60
2	N	138	ALA	O-C-N	-9.42	108.67	122.43
4	7	147	ARG	N-CA-C	9.41	123.34	110.35
4	Z	147	ARG	N-CA-C	9.41	123.33	110.35
4	V	147	ARG	N-CA-C	9.40	123.33	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	2	147	ARG	N-CA-C	9.40	123.32	110.35
4	X	147	ARG	N-CA-C	9.40	123.32	110.35
1	A	604	ASN	CA-CB-CG	9.40	122.00	112.60
4	5	147	ARG	N-CA-C	9.40	123.32	110.35
4	8	147	ARG	N-CA-C	9.39	123.31	110.35
4	4	147	ARG	N-CA-C	9.38	123.30	110.35
2	E	138	ALA	O-C-N	-9.38	108.74	122.43
4	W	147	ARG	N-CA-C	9.38	123.29	110.35
2	Q	138	ALA	O-C-N	-9.38	108.74	122.43
2	K	138	ALA	O-C-N	-9.37	108.75	122.43
1	J	604	ASN	CA-CB-CG	9.37	121.97	112.60
4	9	147	ARG	N-CA-C	9.37	123.28	110.35
4	1	147	ARG	N-CA-C	9.37	123.28	110.35
1	M	604	ASN	CA-CB-CG	9.36	121.96	112.60
1	D	604	ASN	CA-CB-CG	9.35	121.95	112.60
4	3	147	ARG	N-CA-C	9.35	123.25	110.35
2	H	138	ALA	O-C-N	-9.35	108.79	122.43
4	Y	147	ARG	N-CA-C	9.34	123.24	110.35
4	6	147	ARG	N-CA-C	9.34	123.23	110.35
1	P	769	ALA	O-C-N	9.28	137.85	123.00
4	7	3	ASP	CA-CB-CG	9.25	121.85	112.60
4	5	3	ASP	CA-CB-CG	9.24	121.84	112.60
4	X	3	ASP	CA-CB-CG	9.24	121.84	112.60
4	Z	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	1	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	6	3	ASP	CA-CB-CG	9.22	121.82	112.60
4	2	3	ASP	CA-CB-CG	9.22	121.82	112.60
4	3	3	ASP	CA-CB-CG	9.20	121.80	112.60
4	8	3	ASP	CA-CB-CG	9.20	121.80	112.60
4	Y	3	ASP	CA-CB-CG	9.19	121.79	112.60
4	W	3	ASP	CA-CB-CG	9.17	121.77	112.60
4	4	3	ASP	CA-CB-CG	9.16	121.76	112.60
4	V	3	ASP	CA-CB-CG	9.15	121.75	112.60
4	9	3	ASP	CA-CB-CG	9.14	121.74	112.60
4	4	179	ASP	CA-CB-CG	8.88	121.48	112.60
4	8	179	ASP	CA-CB-CG	8.87	121.47	112.60
1	P	264	ASP	CB-CA-C	-8.85	100.45	111.43
4	V	179	ASP	CA-CB-CG	8.85	121.45	112.60
4	W	179	ASP	CA-CB-CG	8.84	121.44	112.60
1	A	264	ASP	CB-CA-C	-8.84	100.47	111.43
4	3	179	ASP	CA-CB-CG	8.83	121.43	112.60
4	5	179	ASP	CA-CB-CG	8.83	121.43	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	179	ASP	CA-CB-CG	8.81	121.41	112.60
4	Z	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	7	179	ASP	CA-CB-CG	8.79	121.39	112.60
4	Y	179	ASP	CA-CB-CG	8.78	121.38	112.60
4	1	179	ASP	CA-CB-CG	8.78	121.38	112.60
1	J	264	ASP	CB-CA-C	-8.78	100.55	111.43
1	M	264	ASP	CB-CA-C	-8.76	100.56	111.43
1	D	264	ASP	CB-CA-C	-8.75	100.58	111.43
4	2	179	ASP	CA-CB-CG	8.75	121.35	112.60
4	6	179	ASP	CA-CB-CG	8.75	121.35	112.60
1	G	264	ASP	CB-CA-C	-8.73	100.60	111.43
4	X	179	ASP	CA-CB-CG	8.73	121.33	112.60
1	M	752	ASP	CA-CB-CG	8.68	121.28	112.60
1	P	752	ASP	CA-CB-CG	8.61	121.21	112.60
1	D	784	ALA	N-CA-C	-8.60	101.86	111.07
1	G	752	ASP	CA-CB-CG	8.60	121.20	112.60
1	J	752	ASP	CA-CB-CG	8.56	121.16	112.60
1	A	752	ASP	CA-CB-CG	8.49	121.09	112.60
1	D	752	ASP	CA-CB-CG	8.49	121.09	112.60
1	A	784	ALA	N-CA-C	-8.47	102.00	111.07
1	J	264	ASP	N-CA-CB	-8.43	97.88	110.86
1	M	219	GLU	N-CA-C	-8.39	92.94	110.80
1	D	264	ASP	N-CA-CB	-8.38	97.96	110.86
1	A	264	ASP	N-CA-CB	-8.37	97.97	110.86
1	P	219	GLU	N-CA-C	-8.37	92.97	110.80
1	D	752	ASP	CB-CA-C	8.36	121.50	111.22
1	A	752	ASP	CB-CA-C	8.36	121.50	111.22
1	G	264	ASP	N-CA-CB	-8.34	98.01	110.86
1	J	752	ASP	CB-CA-C	8.34	121.47	111.22
1	M	264	ASP	N-CA-CB	-8.34	98.02	110.86
1	P	264	ASP	N-CA-CB	-8.34	98.02	110.86
1	G	219	GLU	N-CA-C	-8.33	93.06	110.80
1	J	219	GLU	N-CA-C	-8.32	93.08	110.80
1	J	141	LEU	CB-CA-C	-8.30	97.78	110.90
1	P	141	LEU	CB-CA-C	-8.30	97.79	110.90
1	P	752	ASP	CB-CA-C	8.30	121.42	111.22
1	G	141	LEU	CB-CA-C	-8.29	97.80	110.90
1	G	756	THR	N-CA-CB	-8.29	97.62	110.39
1	M	141	LEU	CB-CA-C	-8.29	97.80	110.90
1	A	219	GLU	N-CA-C	-8.28	93.16	110.80
1	M	756	THR	N-CA-CB	-8.28	97.63	110.39
1	P	756	THR	N-CA-CB	-8.28	97.65	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	315	VAL	N-CA-C	8.27	120.03	112.17
1	J	756	THR	N-CA-CB	-8.27	97.65	110.39
1	D	219	GLU	N-CA-C	-8.25	93.23	110.80
1	D	756	THR	N-CA-CB	-8.25	97.69	110.39
1	M	752	ASP	CB-CA-C	8.25	121.36	111.22
1	G	752	ASP	CB-CA-C	8.24	121.36	111.22
1	A	141	LEU	CB-CA-C	-8.23	97.90	110.90
1	A	756	THR	N-CA-CB	-8.22	97.74	110.39
1	D	141	LEU	CB-CA-C	-8.21	97.93	110.90
1	A	315	VAL	N-CA-C	8.20	119.96	112.17
1	M	75	ASP	N-CA-CB	8.19	122.91	110.79
1	A	75	ASP	N-CA-CB	8.17	122.88	110.79
1	J	75	ASP	N-CA-CB	8.16	122.87	110.79
1	G	315	VAL	N-CA-C	8.13	119.89	112.17
1	M	315	VAL	N-CA-C	8.12	119.89	112.17
1	P	315	VAL	N-CA-C	8.10	119.87	112.17
1	D	75	ASP	N-CA-CB	8.09	122.77	110.79
1	J	315	VAL	N-CA-C	8.09	119.86	112.17
1	D	625	THR	CA-CB-OG1	8.06	121.69	109.60
1	G	625	THR	CA-CB-OG1	8.05	121.68	109.60
1	J	625	THR	CA-CB-OG1	8.05	121.68	109.60
4	8	363	ASP	CA-CB-CG	8.05	120.65	112.60
1	J	800	ARG	NE-CZ-NH2	-8.05	111.96	119.20
1	P	625	THR	CA-CB-OG1	8.04	121.66	109.60
4	2	363	ASP	CA-CB-CG	8.03	120.63	112.60
4	6	363	ASP	CA-CB-CG	8.02	120.62	112.60
4	5	363	ASP	CA-CB-CG	8.01	120.61	112.60
4	3	363	ASP	CA-CB-CG	8.01	120.61	112.60
4	X	363	ASP	CA-CB-CG	8.01	120.61	112.60
1	M	625	THR	CA-CB-OG1	7.99	121.59	109.60
4	7	363	ASP	CA-CB-CG	7.99	120.59	112.60
1	A	625	THR	CA-CB-OG1	7.99	121.58	109.60
4	4	363	ASP	CA-CB-CG	7.99	120.59	112.60
1	D	641	LYS	CA-C-N	7.97	132.02	120.38
1	D	641	LYS	C-N-CA	7.97	132.02	120.38
4	1	363	ASP	CA-CB-CG	7.97	120.57	112.60
4	Y	363	ASP	CA-CB-CG	7.95	120.55	112.60
4	9	363	ASP	CA-CB-CG	7.95	120.55	112.60
1	A	473	ASN	CA-CB-CG	-7.95	104.65	112.60
4	V	363	ASP	CA-CB-CG	7.95	120.55	112.60
4	6	128	ASN	CA-CB-CG	7.92	120.52	112.60
4	Z	128	ASN	CA-CB-CG	7.92	120.52	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	473	ASN	CA-CB-CG	-7.91	104.69	112.60
4	1	128	ASN	CA-CB-CG	7.91	120.51	112.60
4	8	128	ASN	CA-CB-CG	7.91	120.51	112.60
4	7	128	ASN	CA-CB-CG	7.91	120.51	112.60
4	Z	363	ASP	CA-CB-CG	7.91	120.51	112.60
1	P	800	ARG	NE-CZ-NH2	-7.91	112.08	119.20
4	5	128	ASN	CA-CB-CG	7.90	120.50	112.60
1	D	473	ASN	CA-CB-CG	-7.90	104.70	112.60
1	G	473	ASN	CA-CB-CG	-7.90	104.70	112.60
1	M	800	ARG	NE-CZ-NH2	-7.89	112.09	119.20
4	W	363	ASP	CA-CB-CG	7.89	120.49	112.60
4	2	128	ASN	CA-CB-CG	7.88	120.48	112.60
4	V	128	ASN	CA-CB-CG	7.88	120.48	112.60
1	D	800	ARG	NE-CZ-NH2	-7.88	112.11	119.20
4	4	128	ASN	CA-CB-CG	7.88	120.48	112.60
4	6	286	ASP	CA-CB-CG	7.88	120.48	112.60
1	J	473	ASN	CA-CB-CG	-7.88	104.72	112.60
4	W	286	ASP	CA-CB-CG	7.88	120.48	112.60
4	1	286	ASP	CA-CB-CG	7.87	120.47	112.60
2	Q	129	THR	CB-CA-C	-7.87	94.67	110.17
4	3	128	ASN	CA-CB-CG	7.87	120.47	112.60
1	G	547	ASP	N-CA-C	-7.86	102.71	111.28
4	7	286	ASP	CA-CB-CG	7.86	120.46	112.60
4	W	128	ASN	CA-CB-CG	7.86	120.46	112.60
4	X	128	ASN	CA-CB-CG	7.85	120.45	112.60
1	D	547	ASP	N-CA-C	-7.85	102.67	111.07
4	8	286	ASP	CA-CB-CG	7.85	120.45	112.60
4	Y	128	ASN	CA-CB-CG	7.85	120.45	112.60
4	Z	286	ASP	CA-CB-CG	7.85	120.45	112.60
4	Y	286	ASP	CA-CB-CG	7.84	120.44	112.60
1	J	641	LYS	CA-C-N	7.84	131.82	120.38
1	J	641	LYS	C-N-CA	7.84	131.82	120.38
2	K	129	THR	CB-CA-C	-7.83	94.74	110.17
2	N	129	THR	CB-CA-C	-7.83	94.75	110.17
4	5	286	ASP	CA-CB-CG	7.82	120.42	112.60
4	9	128	ASN	CA-CB-CG	7.82	120.42	112.60
4	4	286	ASP	CA-CB-CG	7.82	120.42	112.60
1	A	547	ASP	N-CA-C	-7.82	102.71	111.07
1	A	641	LYS	CA-C-N	7.81	131.78	120.38
1	A	641	LYS	C-N-CA	7.81	131.78	120.38
1	P	547	ASP	N-CA-C	-7.81	102.71	111.07
1	P	473	ASN	CA-CB-CG	-7.79	104.81	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	641	LYS	CA-C-N	7.79	131.75	120.38
1	P	641	LYS	C-N-CA	7.79	131.75	120.38
4	3	286	ASP	CA-CB-CG	7.79	120.39	112.60
4	V	286	ASP	CA-CB-CG	7.78	120.38	112.60
1	J	547	ASP	N-CA-C	-7.78	102.74	111.07
4	X	286	ASP	CA-CB-CG	7.77	120.37	112.60
1	A	800	ARG	NE-CZ-NH2	-7.76	112.21	119.20
1	M	547	ASP	N-CA-C	-7.76	102.77	111.07
4	2	286	ASP	CA-CB-CG	7.76	120.36	112.60
1	M	784	ALA	N-CA-C	-7.76	101.80	111.11
1	G	641	LYS	CA-C-N	7.75	131.70	120.38
1	G	641	LYS	C-N-CA	7.75	131.70	120.38
1	G	800	ARG	NE-CZ-NH2	-7.75	112.23	119.20
2	H	129	THR	CB-CA-C	-7.75	94.90	110.17
1	M	641	LYS	CA-C-N	7.74	131.68	120.38
1	M	641	LYS	C-N-CA	7.74	131.68	120.38
4	9	286	ASP	CA-CB-CG	7.74	120.34	112.60
2	E	129	THR	CB-CA-C	-7.73	94.95	110.17
4	7	25	ASP	CA-CB-CG	7.72	120.32	112.60
1	P	784	ALA	N-CA-C	-7.71	101.85	111.11
4	2	25	ASP	CA-CB-CG	7.71	120.31	112.60
1	J	784	ALA	N-CA-C	-7.71	101.86	111.11
1	J	447	GLN	N-CA-CB	7.69	121.42	110.12
4	9	25	ASP	CA-CB-CG	7.68	120.28	112.60
1	A	447	GLN	N-CA-CB	7.67	121.40	110.12
1	P	447	GLN	N-CA-CB	7.67	121.40	110.12
4	6	25	ASP	CA-CB-CG	7.66	120.26	112.60
4	1	360	GLN	N-CA-C	-7.66	102.62	110.97
4	5	25	ASP	CA-CB-CG	7.66	120.26	112.60
1	A	698	ASN	CB-CA-C	-7.66	97.93	110.79
4	Z	25	ASP	CA-CB-CG	7.65	120.25	112.60
1	M	447	GLN	N-CA-CB	7.65	121.36	110.12
1	G	75	ASP	N-CA-CB	7.65	122.99	110.91
4	W	25	ASP	CA-CB-CG	7.64	120.24	112.60
4	3	25	ASP	CA-CB-CG	7.64	120.24	112.60
4	V	25	ASP	CA-CB-CG	7.64	120.24	112.60
4	6	360	GLN	N-CA-C	-7.63	102.65	110.97
4	X	223	PHE	CA-CB-CG	7.63	121.43	113.80
4	4	25	ASP	CA-CB-CG	7.63	120.23	112.60
4	Y	223	PHE	CA-CB-CG	7.63	121.43	113.80
1	D	447	GLN	N-CA-CB	7.63	121.33	110.12
4	4	360	GLN	N-CA-C	-7.63	102.66	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	360	GLN	N-CA-C	-7.62	102.66	110.97
4	7	360	GLN	N-CA-C	-7.62	102.66	110.97
4	8	25	ASP	CA-CB-CG	7.62	120.22	112.60
1	P	75	ASP	N-CA-CB	7.62	122.95	110.91
4	3	360	GLN	N-CA-C	-7.61	102.67	110.97
2	H	149	ASP	N-CA-CB	7.61	120.88	110.38
4	V	252	ASN	OD1-CG-ND2	-7.61	115.00	122.60
1	M	698	ASN	CB-CA-C	-7.60	98.02	110.79
4	4	223	PHE	CA-CB-CG	7.60	121.40	113.80
4	7	223	PHE	CA-CB-CG	7.60	121.40	113.80
1	G	447	GLN	N-CA-CB	7.60	121.30	110.12
4	V	223	PHE	CA-CB-CG	7.60	121.40	113.80
4	Y	360	GLN	N-CA-C	-7.60	102.69	110.97
4	W	360	GLN	N-CA-C	-7.60	102.69	110.97
4	1	223	PHE	CA-CB-CG	7.59	121.39	113.80
4	Y	25	ASP	CA-CB-CG	7.59	120.19	112.60
4	1	25	ASP	CA-CB-CG	7.59	120.19	112.60
4	8	215	LYS	N-CA-C	7.59	119.34	111.14
4	Z	223	PHE	CA-CB-CG	7.59	121.39	113.80
1	D	202	SER	CB-CA-C	-7.59	95.32	110.42
4	2	360	GLN	N-CA-C	-7.59	102.70	110.97
4	5	223	PHE	CA-CB-CG	7.58	121.39	113.80
4	9	223	PHE	CA-CB-CG	7.58	121.38	113.80
4	Z	360	GLN	N-CA-C	-7.58	102.70	110.97
3	I	62	ALA	CA-C-N	-7.58	112.58	122.51
3	I	62	ALA	C-N-CA	-7.58	112.58	122.51
4	5	360	GLN	N-CA-C	-7.58	102.71	110.97
4	8	252	ASN	OD1-CG-ND2	-7.58	115.02	122.60
4	8	173	HIS	CA-CB-CG	-7.58	106.22	113.80
4	8	223	PHE	CA-CB-CG	7.58	121.38	113.80
4	X	360	GLN	N-CA-C	-7.57	102.72	110.97
4	6	223	PHE	CA-CB-CG	7.57	121.37	113.80
4	W	252	ASN	OD1-CG-ND2	-7.57	115.03	122.60
4	X	25	ASP	CA-CB-CG	7.57	120.17	112.60
4	V	215	LYS	N-CA-C	7.56	119.31	111.14
4	9	360	GLN	N-CA-C	-7.56	102.73	110.97
1	G	784	ALA	N-CA-C	-7.56	102.04	111.11
4	5	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
2	E	149	ASP	N-CA-CB	7.55	120.80	110.38
4	7	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
2	N	149	ASP	N-CA-CB	7.55	120.80	110.38
1	P	202	SER	CB-CA-C	-7.55	95.39	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	698	ASN	CB-CA-C	-7.55	98.11	110.79
4	9	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
1	A	202	SER	CB-CA-C	-7.55	95.40	110.42
4	3	223	PHE	CA-CB-CG	7.55	121.35	113.80
4	1	62	ARG	N-CA-C	7.55	120.39	111.71
4	W	223	PHE	CA-CB-CG	7.55	121.35	113.80
1	M	202	SER	CB-CA-C	-7.54	95.41	110.42
4	6	252	ASN	OD1-CG-ND2	-7.54	115.06	122.60
1	G	202	SER	CB-CA-C	-7.54	95.41	110.42
1	G	698	ASN	CB-CA-C	-7.54	98.12	110.79
1	J	202	SER	CB-CA-C	-7.54	95.42	110.42
4	2	223	PHE	CA-CB-CG	7.53	121.33	113.80
2	K	149	ASP	N-CA-CB	7.53	120.77	110.38
4	6	62	ARG	N-CA-C	7.53	120.37	111.71
4	9	62	ARG	N-CA-C	7.53	120.37	111.71
4	4	215	LYS	N-CA-C	7.52	119.26	111.14
4	Y	215	LYS	N-CA-C	7.52	119.26	111.14
4	1	215	LYS	N-CA-C	7.52	119.26	111.14
4	V	360	GLN	N-CA-C	-7.52	102.77	110.97
3	F	62	ALA	CA-C-N	-7.52	112.66	122.51
3	F	62	ALA	C-N-CA	-7.52	112.66	122.51
2	Q	149	ASP	N-CA-CB	7.52	120.75	110.38
1	P	698	ASN	CB-CA-C	-7.51	98.17	110.79
4	Y	252	ASN	OD1-CG-ND2	-7.51	115.09	122.60
2	Q	141	PRO	N-CA-CB	-7.51	95.80	103.08
4	7	173	HIS	CA-CB-CG	-7.51	106.29	113.80
4	X	62	ARG	N-CA-C	7.51	120.35	111.71
4	3	215	LYS	N-CA-C	7.51	119.25	111.14
3	L	62	ALA	CA-C-N	-7.51	112.68	122.51
3	L	62	ALA	C-N-CA	-7.51	112.68	122.51
2	H	141	PRO	N-CA-CB	-7.50	95.80	103.08
2	K	141	PRO	N-CA-CB	-7.50	95.80	103.08
4	2	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	5	62	ARG	N-CA-C	7.50	120.34	111.71
4	6	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	X	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	9	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	V	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	2	215	LYS	N-CA-C	7.50	119.24	111.14
4	Z	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	2	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	X	173	HIS	CA-CB-CG	-7.50	106.30	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	62	ARG	N-CA-C	7.49	120.33	111.71
1	D	698	ASN	CB-CA-C	-7.49	98.20	110.79
4	Z	173	HIS	CA-CB-CG	-7.49	106.31	113.80
4	2	62	ARG	N-CA-C	7.49	120.32	111.71
4	3	252	ASN	OD1-CG-ND2	-7.49	115.11	122.60
4	X	215	LYS	N-CA-C	7.49	119.23	111.14
4	Y	62	ARG	N-CA-C	7.49	120.33	111.71
4	V	62	ARG	N-CA-C	7.49	120.32	111.71
4	5	173	HIS	CA-CB-CG	-7.49	106.31	113.80
4	7	215	LYS	N-CA-C	7.49	119.23	111.14
4	Z	62	ARG	N-CA-C	7.49	120.32	111.71
2	Q	140	PHE	O-C-N	-7.49	112.71	121.32
4	8	62	ARG	N-CA-C	7.49	120.32	111.71
4	Z	215	LYS	N-CA-C	7.49	119.22	111.14
4	4	62	ARG	N-CA-C	7.48	120.32	111.71
3	R	62	ALA	CA-C-N	-7.48	112.71	122.51
3	R	62	ALA	C-N-CA	-7.48	112.71	122.51
4	W	62	ARG	N-CA-C	7.48	120.31	111.71
4	5	215	LYS	N-CA-C	7.47	119.21	111.14
4	W	215	LYS	N-CA-C	7.46	119.20	111.14
4	9	215	LYS	N-CA-C	7.46	119.20	111.14
4	6	215	LYS	N-CA-C	7.46	119.20	111.14
4	7	62	ARG	N-CA-C	7.46	120.29	111.71
4	W	173	HIS	CA-CB-CG	-7.46	106.34	113.80
4	1	173	HIS	CA-CB-CG	-7.45	106.35	113.80
4	1	252	ASN	OD1-CG-ND2	-7.45	115.15	122.60
4	4	252	ASN	OD1-CG-ND2	-7.45	115.15	122.60
4	Y	173	HIS	CA-CB-CG	-7.45	106.35	113.80
2	E	140	PHE	O-C-N	-7.44	112.77	121.32
3	O	62	ALA	CA-C-N	-7.44	112.77	122.51
3	O	62	ALA	C-N-CA	-7.44	112.77	122.51
4	3	173	HIS	CA-CB-CG	-7.43	106.37	113.80
4	4	173	HIS	CA-CB-CG	-7.43	106.37	113.80
2	K	140	PHE	O-C-N	-7.41	112.80	121.32
2	E	141	PRO	N-CA-CB	-7.41	95.90	103.08
2	H	140	PHE	O-C-N	-7.39	112.82	121.32
1	D	506	GLU	CA-C-N	-7.37	112.47	122.63
1	D	506	GLU	C-N-CA	-7.37	112.47	122.63
4	8	34	ILE	CA-CB-CG2	-7.33	98.03	110.50
4	Z	34	ILE	CA-CB-CG2	-7.33	98.04	110.50
4	4	34	ILE	CA-CB-CG2	-7.31	98.07	110.50
4	Y	34	ILE	CA-CB-CG2	-7.31	98.07	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	6	34	ILE	CA-CB-CG2	-7.31	98.07	110.50
4	W	34	ILE	CA-CB-CG2	-7.31	98.07	110.50
2	N	141	PRO	N-CA-CB	-7.31	95.99	103.08
4	X	34	ILE	CA-CB-CG2	-7.31	98.08	110.50
1	D	76	GLN	N-CA-C	-7.29	102.67	113.61
4	5	34	ILE	CA-CB-CG2	-7.29	98.10	110.50
4	2	34	ILE	CA-CB-CG2	-7.29	98.11	110.50
4	1	34	ILE	CA-CB-CG2	-7.28	98.13	110.50
4	3	34	ILE	CA-CB-CG2	-7.28	98.13	110.50
4	7	34	ILE	CA-CB-CG2	-7.27	98.14	110.50
4	7	159	VAL	CB-CA-C	-7.26	99.07	110.69
1	J	506	GLU	CA-C-N	-7.26	112.61	122.63
1	J	506	GLU	C-N-CA	-7.26	112.61	122.63
1	G	76	GLN	N-CA-C	-7.26	102.73	113.61
4	X	159	VAL	CB-CA-C	-7.25	99.08	110.69
4	Y	159	VAL	CB-CA-C	-7.25	99.08	110.69
1	A	76	GLN	N-CA-C	-7.25	102.73	113.61
4	V	34	ILE	CA-CB-CG2	-7.25	98.17	110.50
4	3	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	9	34	ILE	CA-CB-CG2	-7.25	98.18	110.50
4	Z	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	4	159	VAL	CB-CA-C	-7.24	99.10	110.69
4	W	159	VAL	CB-CA-C	-7.24	99.10	110.69
1	G	506	GLU	CA-C-N	-7.24	112.65	122.63
1	G	506	GLU	C-N-CA	-7.24	112.65	122.63
2	N	140	PHE	O-C-N	-7.23	113.01	121.32
1	J	76	GLN	N-CA-C	-7.23	102.77	113.61
1	M	506	GLU	CA-C-N	-7.22	112.66	122.63
1	M	506	GLU	C-N-CA	-7.22	112.66	122.63
4	1	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	V	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	V	323	SER	N-CA-C	7.22	121.72	112.34
4	8	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	6	159	VAL	CB-CA-C	-7.21	99.15	110.69
1	M	76	GLN	N-CA-C	-7.21	102.79	113.61
4	5	159	VAL	CB-CA-C	-7.21	99.15	110.69
4	9	159	VAL	CB-CA-C	-7.21	99.16	110.69
1	A	506	GLU	CA-C-N	-7.21	112.69	122.63
1	A	506	GLU	C-N-CA	-7.21	112.69	122.63
1	G	625	THR	CA-CB-CG2	-7.20	98.26	110.50
4	2	159	VAL	CB-CA-C	-7.20	99.17	110.69
4	6	323	SER	N-CA-C	7.20	121.70	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1	323	SER	N-CA-C	7.19	121.69	112.34
4	2	259	GLU	CB-CG-CD	7.19	124.82	112.60
4	7	323	SER	N-CA-C	7.19	121.68	112.34
4	5	259	GLU	CB-CG-CD	7.18	124.81	112.60
4	9	259	GLU	CB-CG-CD	7.18	124.81	112.60
1	P	76	GLN	N-CA-C	-7.18	102.84	113.61
4	7	259	GLU	CB-CG-CD	7.18	124.81	112.60
4	V	259	GLU	CB-CG-CD	7.18	124.81	112.60
4	Y	323	SER	N-CA-C	7.18	121.67	112.34
1	J	625	THR	CA-CB-CG2	-7.18	98.30	110.50
4	4	259	GLU	CB-CG-CD	7.18	124.80	112.60
4	5	323	SER	N-CA-C	7.17	121.66	112.34
1	P	625	THR	CA-CB-CG2	-7.17	98.32	110.50
1	A	625	THR	CA-CB-CG2	-7.16	98.33	110.50
1	M	625	THR	CA-CB-CG2	-7.16	98.33	110.50
4	X	259	GLU	CB-CG-CD	7.16	124.77	112.60
4	1	259	GLU	CB-CG-CD	7.16	124.77	112.60
4	Z	259	GLU	CB-CG-CD	7.16	124.77	112.60
4	W	323	SER	N-CA-C	7.16	121.64	112.34
4	X	323	SER	N-CA-C	7.16	121.64	112.34
4	Y	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	W	259	GLU	CB-CG-CD	7.15	124.76	112.60
1	P	506	GLU	CA-C-N	-7.15	112.77	122.63
1	P	506	GLU	C-N-CA	-7.15	112.77	122.63
4	Z	323	SER	N-CA-C	7.15	121.63	112.34
4	8	323	SER	N-CA-C	7.15	121.63	112.34
4	2	323	SER	N-CA-C	7.15	121.63	112.34
4	3	259	GLU	CB-CG-CD	7.14	124.75	112.60
4	4	323	SER	N-CA-C	7.14	121.63	112.34
4	3	323	SER	N-CA-C	7.14	121.62	112.34
4	6	259	GLU	CB-CG-CD	7.14	124.73	112.60
4	8	259	GLU	CB-CG-CD	7.13	124.72	112.60
4	9	323	SER	N-CA-C	7.12	121.60	112.34
1	D	625	THR	CA-CB-CG2	-7.11	98.41	110.50
4	X	69	TYR	CA-C-N	7.09	126.79	119.56
4	X	69	TYR	C-N-CA	7.09	126.79	119.56
1	M	652	LEU	O-C-N	7.07	130.31	122.11
1	G	652	LEU	O-C-N	7.06	130.30	122.11
1	J	652	LEU	O-C-N	7.05	130.29	122.11
4	5	73	HIS	CA-CB-CG	-7.04	106.75	113.80
4	W	69	TYR	CA-C-N	7.04	126.74	119.56
4	W	69	TYR	C-N-CA	7.04	126.74	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	69	TYR	CA-C-N	7.03	126.73	119.56
4	9	69	TYR	C-N-CA	7.03	126.73	119.56
4	Y	69	TYR	CA-C-N	7.02	126.72	119.56
4	Y	69	TYR	C-N-CA	7.02	126.72	119.56
1	P	652	LEU	O-C-N	7.02	130.25	122.11
4	4	69	TYR	CA-C-N	7.01	126.72	119.56
4	4	69	TYR	C-N-CA	7.01	126.72	119.56
4	8	69	TYR	CA-C-N	7.01	126.71	119.56
4	8	69	TYR	C-N-CA	7.01	126.71	119.56
1	D	686	MET	CA-C-N	-7.01	111.40	121.42
1	D	686	MET	C-N-CA	-7.01	111.40	121.42
4	6	69	TYR	CA-C-N	7.01	126.71	119.56
4	6	69	TYR	C-N-CA	7.01	126.71	119.56
1	A	652	LEU	O-C-N	7.00	130.22	122.11
4	7	69	TYR	CA-C-N	7.00	126.70	119.56
4	7	69	TYR	C-N-CA	7.00	126.70	119.56
4	7	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	9	287	ILE	CB-CA-C	-6.99	102.70	112.14
4	V	287	ILE	CB-CA-C	-6.99	102.70	112.14
4	5	69	TYR	CA-C-N	6.99	126.68	119.56
4	5	69	TYR	C-N-CA	6.99	126.68	119.56
4	Y	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	6	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	1	69	TYR	CA-C-N	6.98	126.68	119.56
4	1	69	TYR	C-N-CA	6.98	126.68	119.56
4	1	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	3	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	V	69	TYR	CA-C-N	6.98	126.68	119.56
4	V	69	TYR	C-N-CA	6.98	126.68	119.56
4	3	69	TYR	CA-C-N	6.97	126.67	119.56
4	3	69	TYR	C-N-CA	6.97	126.67	119.56
4	Z	69	TYR	CA-C-N	6.97	126.67	119.56
4	Z	69	TYR	C-N-CA	6.97	126.67	119.56
1	A	686	MET	CA-C-N	-6.96	111.47	121.42
1	A	686	MET	C-N-CA	-6.96	111.47	121.42
1	J	686	MET	CA-C-N	-6.96	111.47	121.42
1	J	686	MET	C-N-CA	-6.96	111.47	121.42
4	W	287	ILE	CB-CA-C	-6.96	102.74	112.14
4	2	73	HIS	CA-CB-CG	-6.96	106.84	113.80
4	2	69	TYR	CA-C-N	6.96	126.66	119.56
4	2	69	TYR	C-N-CA	6.96	126.66	119.56
4	8	73	HIS	CA-CB-CG	-6.96	106.84	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	652	LEU	O-C-N	6.96	130.18	122.11
4	1	287	ILE	CB-CA-C	-6.96	102.75	112.14
1	M	686	MET	CA-C-N	-6.95	111.48	121.42
1	M	686	MET	C-N-CA	-6.95	111.48	121.42
4	V	73	HIS	CA-CB-CG	-6.95	106.85	113.80
4	Z	73	HIS	CA-CB-CG	-6.95	106.85	113.80
4	Y	287	ILE	CB-CA-C	-6.95	102.76	112.14
1	G	686	MET	CA-C-N	-6.94	111.49	121.42
1	G	686	MET	C-N-CA	-6.94	111.49	121.42
4	4	73	HIS	CA-CB-CG	-6.94	106.86	113.80
4	5	287	ILE	CB-CA-C	-6.94	102.77	112.14
4	9	73	HIS	CA-CB-CG	-6.94	106.86	113.80
4	W	73	HIS	CA-CB-CG	-6.94	106.86	113.80
4	7	287	ILE	N-CA-C	6.94	117.70	110.62
4	X	73	HIS	CA-CB-CG	-6.94	106.86	113.80
4	6	287	ILE	CB-CA-C	-6.94	102.78	112.14
1	P	686	MET	CA-C-N	-6.93	111.50	121.42
1	P	686	MET	C-N-CA	-6.93	111.50	121.42
4	Y	287	ILE	N-CA-C	6.93	117.69	110.62
4	3	287	ILE	CB-CA-C	-6.93	102.79	112.14
4	4	287	ILE	N-CA-C	6.93	117.69	110.62
4	8	287	ILE	CB-CA-C	-6.92	102.80	112.14
4	W	287	ILE	N-CA-C	6.92	117.68	110.62
4	X	287	ILE	CB-CA-C	-6.92	102.80	112.14
4	4	287	ILE	CB-CA-C	-6.92	102.81	112.14
4	X	191	LYS	CA-C-O	-6.91	113.58	120.70
4	6	287	ILE	N-CA-C	6.91	117.67	110.62
4	5	287	ILE	N-CA-C	6.91	117.66	110.62
4	8	287	ILE	N-CA-C	6.91	117.66	110.62
4	6	191	LYS	CA-C-O	-6.90	113.59	120.70
1	J	676	ILE	CA-C-N	6.90	128.46	119.84
1	J	676	ILE	C-N-CA	6.90	128.46	119.84
1	G	676	ILE	CA-C-N	6.89	128.46	119.84
1	G	676	ILE	C-N-CA	6.89	128.46	119.84
4	Z	287	ILE	N-CA-C	6.89	117.65	110.62
4	Z	287	ILE	CB-CA-C	-6.89	102.84	112.14
4	2	287	ILE	CB-CA-C	-6.88	102.85	112.14
4	7	287	ILE	CB-CA-C	-6.87	102.86	112.14
4	X	287	ILE	N-CA-C	6.87	117.63	110.62
4	2	287	ILE	N-CA-C	6.86	117.62	110.62
1	J	529	PRO	CA-C-N	-6.86	111.67	122.65
1	J	529	PRO	C-N-CA	-6.86	111.67	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	191	LYS	CA-C-O	-6.86	113.63	120.70
4	7	191	LYS	CA-C-O	-6.86	113.64	120.70
4	4	191	LYS	CA-C-O	-6.85	113.65	120.70
4	3	287	ILE	N-CA-C	6.84	117.60	110.62
1	P	201	ALA	CB-CA-C	-6.84	106.47	116.53
1	P	529	PRO	CA-C-N	-6.84	111.71	122.65
1	P	529	PRO	C-N-CA	-6.84	111.71	122.65
4	2	191	LYS	CA-C-O	-6.84	113.66	120.70
4	9	287	ILE	N-CA-C	6.83	117.59	110.62
1	P	676	ILE	CA-C-N	6.83	128.38	119.84
1	P	676	ILE	C-N-CA	6.83	128.38	119.84
1	D	529	PRO	CA-C-N	-6.83	111.73	122.65
1	D	529	PRO	C-N-CA	-6.83	111.73	122.65
1	A	529	PRO	CA-C-N	-6.82	111.73	122.65
1	A	529	PRO	C-N-CA	-6.82	111.73	122.65
1	J	201	ALA	CB-CA-C	-6.82	106.50	116.53
4	V	191	LYS	CA-C-O	-6.82	113.67	120.70
1	D	676	ILE	CA-C-N	6.82	128.36	119.84
1	D	676	ILE	C-N-CA	6.82	128.36	119.84
1	M	676	ILE	CA-C-N	6.82	128.36	119.84
1	M	676	ILE	C-N-CA	6.82	128.36	119.84
4	1	287	ILE	N-CA-C	6.82	117.58	110.62
4	9	191	LYS	CA-C-O	-6.82	113.68	120.70
4	W	191	LYS	CA-C-O	-6.82	113.68	120.70
1	G	785	GLU	O-C-N	6.82	131.65	122.59
2	K	139	ALA	N-CA-C	-6.82	104.28	114.64
1	M	529	PRO	CA-C-N	-6.81	111.75	122.65
1	M	529	PRO	C-N-CA	-6.81	111.75	122.65
1	G	578	HIS	N-CA-CB	6.81	122.00	110.49
4	V	287	ILE	N-CA-C	6.81	117.56	110.62
1	G	201	ALA	CB-CA-C	-6.80	106.53	116.53
4	V	214	GLU	CB-CG-CD	6.80	124.17	112.60
4	1	191	LYS	CA-C-O	-6.80	113.69	120.70
4	3	191	LYS	CA-C-O	-6.80	113.69	120.70
4	5	191	LYS	CA-C-O	-6.80	113.70	120.70
1	A	676	ILE	CA-C-N	6.80	128.34	119.84
1	A	676	ILE	C-N-CA	6.80	128.34	119.84
4	Y	191	LYS	CA-C-O	-6.80	113.70	120.70
1	A	201	ALA	CB-CA-C	-6.79	106.54	116.53
4	X	259	GLU	N-CA-C	-6.79	104.09	112.38
1	G	529	PRO	CA-C-N	-6.79	111.78	122.65
1	G	529	PRO	C-N-CA	-6.79	111.78	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Q	139	ALA	N-CA-C	-6.79	104.32	114.64
1	P	578	HIS	N-CA-CB	6.78	121.95	110.49
1	M	201	ALA	CB-CA-C	-6.78	106.56	116.53
4	Z	191	LYS	CA-C-O	-6.78	113.72	120.70
1	J	218	LEU	O-C-N	6.78	131.28	123.29
1	P	218	LEU	O-C-N	6.77	131.28	123.29
2	E	139	ALA	N-CA-C	-6.77	104.35	114.64
4	1	214	GLU	CB-CG-CD	6.77	124.11	112.60
4	Y	259	GLU	N-CA-C	-6.77	104.12	112.38
1	D	146	LYS	N-CA-C	6.77	119.55	108.52
4	X	214	GLU	CB-CG-CD	6.77	124.10	112.60
4	7	214	GLU	CB-CG-CD	6.76	124.10	112.60
4	Z	214	GLU	CB-CG-CD	6.76	124.09	112.60
4	Y	214	GLU	CB-CG-CD	6.76	124.09	112.60
1	D	201	ALA	CB-CA-C	-6.76	106.59	116.53
1	M	218	LEU	O-C-N	6.76	131.26	123.29
1	A	578	HIS	N-CA-CB	6.76	121.91	110.49
1	J	578	HIS	N-CA-CB	6.76	121.91	110.49
1	M	578	HIS	N-CA-CB	6.76	121.91	110.49
4	9	259	GLU	N-CA-C	-6.76	104.14	112.38
4	9	214	GLU	CB-CG-CD	6.75	124.08	112.60
4	2	259	GLU	N-CA-C	-6.75	104.15	112.38
4	Z	259	GLU	N-CA-C	-6.74	104.15	112.38
4	5	214	GLU	CB-CG-CD	6.74	124.06	112.60
2	N	139	ALA	N-CA-C	-6.74	104.39	114.64
4	6	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	4	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	5	259	GLU	N-CA-C	-6.73	104.16	112.38
1	G	218	LEU	O-C-N	6.73	131.23	123.29
4	3	214	GLU	CB-CG-CD	6.73	124.05	112.60
4	V	259	GLU	N-CA-C	-6.73	104.17	112.38
1	A	146	LYS	N-CA-C	6.73	119.49	108.52
1	M	146	LYS	N-CA-C	6.73	119.49	108.52
4	W	259	GLU	N-CA-C	-6.72	104.18	112.38
4	4	259	GLU	N-CA-C	-6.72	104.18	112.38
4	W	214	GLU	CB-CG-CD	6.72	124.02	112.60
4	6	259	GLU	N-CA-C	-6.71	104.19	112.38
2	N	139	ALA	O-C-N	6.71	129.04	121.93
1	P	146	LYS	N-CA-C	6.71	119.45	108.52
4	8	259	GLU	N-CA-C	-6.71	104.20	112.38
4	2	214	GLU	CB-CG-CD	6.70	123.99	112.60
2	H	139	ALA	N-CA-C	-6.70	104.46	114.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	214	GLU	CB-CG-CD	6.70	123.99	112.60
4	1	259	GLU	N-CA-C	-6.70	104.21	112.38
1	J	146	LYS	N-CA-C	6.70	119.43	108.52
4	3	259	GLU	N-CA-C	-6.69	104.21	112.38
1	D	578	HIS	N-CA-CB	6.69	121.80	110.49
4	7	259	GLU	N-CA-C	-6.66	104.26	112.38
1	A	218	LEU	O-C-N	6.65	131.14	123.29
1	G	146	LYS	N-CA-C	6.62	119.32	108.52
1	D	218	LEU	O-C-N	6.58	131.05	123.29
1	P	628	GLY	O-C-N	-6.56	114.45	122.71
4	1	371	HIS	CA-CB-CG	-6.55	107.25	113.80
2	H	139	ALA	O-C-N	6.55	128.87	121.93
1	M	628	GLY	O-C-N	-6.55	114.46	122.71
1	D	82	PRO	N-CA-CB	6.54	109.43	103.08
4	7	371	HIS	CA-CB-CG	-6.53	107.27	113.80
2	K	139	ALA	O-C-N	6.53	128.85	121.93
4	X	371	HIS	CA-CB-CG	-6.52	107.28	113.80
4	5	371	HIS	CA-CB-CG	-6.52	107.28	113.80
1	J	82	PRO	N-CA-CB	6.52	109.40	103.08
1	P	156	PHE	N-CA-C	-6.52	104.59	112.54
2	E	139	ALA	O-C-N	6.52	128.84	121.93
1	M	156	PHE	N-CA-C	-6.52	104.59	112.54
1	M	82	PRO	N-CA-CB	6.51	109.40	103.08
4	2	371	HIS	CA-CB-CG	-6.51	107.29	113.80
2	H	141	PRO	N-CD-CG	-6.51	93.44	103.20
1	A	82	PRO	N-CA-CB	6.51	109.39	103.08
1	D	217	THR	N-CA-CB	6.51	123.63	111.53
2	Q	139	ALA	O-C-N	6.50	128.82	121.93
1	J	628	GLY	O-C-N	-6.50	114.52	122.71
1	P	217	THR	N-CA-CB	6.49	123.61	111.53
1	A	156	PHE	N-CA-C	-6.49	104.62	112.54
1	P	82	PRO	N-CA-CB	6.48	109.37	103.08
1	G	217	THR	N-CA-CB	6.48	123.58	111.53
1	D	628	GLY	O-C-N	-6.47	114.55	122.71
4	3	286	ASP	CA-C-N	6.47	129.33	120.46
4	3	286	ASP	C-N-CA	6.47	129.33	120.46
4	6	371	HIS	CA-CB-CG	-6.47	107.33	113.80
4	8	371	HIS	CA-CB-CG	-6.47	107.33	113.80
4	9	371	HIS	CA-CB-CG	-6.47	107.33	113.80
1	J	217	THR	N-CA-CB	6.47	123.56	111.53
2	E	141	PRO	N-CA-C	6.47	118.59	110.70
2	H	141	PRO	N-CA-C	6.46	118.59	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1	286	ASP	CA-C-N	6.46	129.32	120.46
4	1	286	ASP	C-N-CA	6.46	129.32	120.46
4	2	286	ASP	CA-C-N	6.46	129.31	120.46
4	2	286	ASP	C-N-CA	6.46	129.31	120.46
2	E	141	PRO	N-CD-CG	-6.46	93.51	103.20
2	K	141	PRO	N-CD-CG	-6.46	93.51	103.20
2	Q	141	PRO	N-CD-CG	-6.46	93.51	103.20
4	4	101	HIS	CB-CG-CD2	-6.46	122.80	131.20
1	D	156	PHE	N-CA-C	-6.46	104.66	112.54
1	A	628	GLY	O-C-N	-6.46	114.58	122.71
1	D	604	ASN	CA-C-O	6.45	128.44	121.02
4	5	286	ASP	CA-C-N	6.45	129.30	120.46
4	5	286	ASP	C-N-CA	6.45	129.30	120.46
4	4	371	HIS	CA-CB-CG	-6.45	107.35	113.80
1	A	217	THR	N-CA-CB	6.45	123.53	111.53
1	J	156	PHE	N-CA-C	-6.45	104.68	112.54
1	G	156	PHE	N-CA-C	-6.44	104.68	112.54
4	X	286	ASP	CA-C-N	6.44	129.29	120.46
4	X	286	ASP	C-N-CA	6.44	129.29	120.46
1	G	628	GLY	O-C-N	-6.44	114.59	122.71
4	7	259	GLU	CA-CB-CG	6.44	126.98	114.10
4	W	286	ASP	CA-C-N	6.44	129.28	120.46
4	W	286	ASP	C-N-CA	6.44	129.28	120.46
1	M	217	THR	N-CA-CB	6.43	123.50	111.53
4	8	286	ASP	CA-C-N	6.43	129.28	120.46
4	8	286	ASP	C-N-CA	6.43	129.28	120.46
4	V	286	ASP	CA-C-N	6.43	129.28	120.46
4	V	286	ASP	C-N-CA	6.43	129.28	120.46
1	D	688	HIS	CA-CB-CG	-6.43	107.37	113.80
4	W	371	HIS	CA-CB-CG	-6.43	107.37	113.80
4	4	259	GLU	CA-CB-CG	6.43	126.96	114.10
4	6	286	ASP	CA-C-N	6.43	129.27	120.46
4	6	286	ASP	C-N-CA	6.43	129.27	120.46
4	W	101	HIS	CB-CG-CD2	-6.43	122.84	131.20
4	9	259	GLU	CA-CB-CG	6.43	126.96	114.10
4	Y	371	HIS	CA-CB-CG	-6.43	107.37	113.80
4	Z	371	HIS	CA-CB-CG	-6.43	107.37	113.80
4	9	286	ASP	CA-C-N	6.42	129.26	120.46
4	9	286	ASP	C-N-CA	6.42	129.26	120.46
4	V	371	HIS	CA-CB-CG	-6.42	107.38	113.80
4	Y	101	HIS	CB-CG-CD2	-6.42	122.85	131.20
4	8	101	HIS	CB-CG-CD2	-6.42	122.85	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	340	ILE	O-C-N	6.42	128.35	121.87
4	6	80	ASP	CA-CB-CG	6.42	119.02	112.60
4	7	101	HIS	CB-CG-CD2	-6.42	122.85	131.20
4	4	47	MET	CA-CB-CG	-6.42	101.26	114.10
4	3	371	HIS	CA-CB-CG	-6.42	107.38	113.80
4	3	101	HIS	CB-CG-CD2	-6.42	122.86	131.20
4	5	259	GLU	CA-CB-CG	6.42	126.93	114.10
4	X	259	GLU	CA-CB-CG	6.42	126.93	114.10
4	V	259	GLU	CA-CB-CG	6.41	126.93	114.10
4	Y	286	ASP	CA-C-N	6.41	129.25	120.46
4	Y	286	ASP	C-N-CA	6.41	129.25	120.46
4	Z	259	GLU	CA-CB-CG	6.41	126.93	114.10
4	1	101	HIS	CB-CG-CD2	-6.41	122.86	131.20
4	7	286	ASP	CA-C-N	6.41	129.24	120.46
4	7	286	ASP	C-N-CA	6.41	129.24	120.46
4	4	286	ASP	CA-C-N	6.41	129.24	120.46
4	4	286	ASP	C-N-CA	6.41	129.24	120.46
4	6	259	GLU	CA-CB-CG	6.41	126.91	114.10
4	V	101	HIS	CB-CG-CD2	-6.41	122.87	131.20
4	2	259	GLU	CA-CB-CG	6.40	126.91	114.10
2	N	141	PRO	N-CD-CG	-6.40	93.60	103.20
4	W	80	ASP	CA-CB-CG	6.40	119.00	112.60
2	Q	141	PRO	N-CA-C	6.40	118.51	110.70
4	6	101	HIS	CB-CG-CD2	-6.40	122.88	131.20
4	Z	286	ASP	CA-C-N	6.40	129.23	120.46
4	Z	286	ASP	C-N-CA	6.40	129.23	120.46
4	7	80	ASP	CA-CB-CG	6.40	119.00	112.60
4	1	259	GLU	CA-CB-CG	6.40	126.89	114.10
4	5	47	MET	CA-CB-CG	-6.40	101.31	114.10
4	3	259	GLU	CA-CB-CG	6.39	126.89	114.10
4	W	259	GLU	CA-CB-CG	6.39	126.89	114.10
1	P	47	PHE	CB-CA-C	-6.39	100.91	110.24
1	J	604	ASN	CA-C-O	6.39	128.37	121.02
4	3	282	ILE	CA-C-O	-6.39	113.96	121.05
4	V	80	ASP	CA-CB-CG	6.39	118.99	112.60
4	Z	80	ASP	CA-CB-CG	6.39	118.99	112.60
2	N	141	PRO	N-CA-C	6.38	118.49	110.70
4	2	47	MET	CA-CB-CG	-6.38	101.33	114.10
4	9	101	HIS	CB-CG-CD2	-6.38	122.90	131.20
4	Y	282	ILE	CA-C-O	-6.38	113.97	121.05
4	W	282	ILE	CA-C-O	-6.38	113.97	121.05
4	1	47	MET	CA-CB-CG	-6.38	101.34	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	2	101	HIS	CB-CG-CD2	-6.38	122.91	131.20
4	V	47	MET	CA-CB-CG	-6.38	101.34	114.10
1	D	47	PHE	CB-CA-C	-6.38	100.93	110.24
1	M	604	ASN	CA-C-O	6.38	128.35	121.02
4	8	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	Y	259	GLU	CA-CB-CG	6.38	126.86	114.10
1	D	340	ILE	O-C-N	6.38	128.31	121.87
1	G	604	ASN	CA-C-O	6.38	128.35	121.02
4	6	47	MET	CA-CB-CG	-6.38	101.34	114.10
4	7	47	MET	CA-CB-CG	-6.38	101.35	114.10
1	J	340	ILE	O-C-N	6.37	128.31	121.87
1	J	688	HIS	CA-CB-CG	-6.37	107.43	113.80
4	4	80	ASP	CA-CB-CG	6.37	118.97	112.60
4	9	80	ASP	CA-CB-CG	6.37	118.97	112.60
1	A	604	ASN	CA-C-O	6.37	128.34	121.02
4	2	80	ASP	CA-CB-CG	6.37	118.97	112.60
4	W	47	MET	CA-CB-CG	-6.36	101.38	114.10
1	P	688	HIS	CA-CB-CG	-6.36	107.44	113.80
1	G	82	PRO	N-CA-CB	6.36	109.25	103.08
4	Z	47	MET	CA-CB-CG	-6.36	101.38	114.10
1	A	47	PHE	CB-CA-C	-6.35	100.97	110.24
1	M	340	ILE	O-C-N	6.35	128.28	121.87
1	P	604	ASN	CA-C-O	6.35	128.33	121.02
4	3	47	MET	CA-CB-CG	-6.35	101.39	114.10
4	9	282	ILE	CA-C-O	-6.35	114.00	121.05
4	X	80	ASP	CA-CB-CG	6.35	118.95	112.60
4	X	101	HIS	CB-CG-CD2	-6.35	122.94	131.20
4	Y	80	ASP	CA-CB-CG	6.35	118.95	112.60
1	M	688	HIS	CA-CB-CG	-6.35	107.45	113.80
4	9	47	MET	CA-CB-CG	-6.35	101.40	114.10
4	Y	47	MET	CA-CB-CG	-6.35	101.41	114.10
1	A	688	HIS	CA-CB-CG	-6.34	107.46	113.80
1	A	755	HIS	CA-CB-CG	6.34	120.14	113.80
1	G	340	ILE	O-C-N	6.34	128.28	121.87
4	6	282	ILE	CA-C-O	-6.34	114.01	121.05
4	8	47	MET	CA-CB-CG	-6.34	101.42	114.10
1	J	47	PHE	CB-CA-C	-6.34	100.98	110.24
4	1	80	ASP	CA-CB-CG	6.34	118.94	112.60
4	5	80	ASP	CA-CB-CG	6.34	118.94	112.60
4	7	282	ILE	CA-C-O	-6.33	114.02	121.05
4	Z	101	HIS	CB-CG-CD2	-6.33	122.97	131.20
4	X	282	ILE	CA-C-O	-6.33	114.02	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	4	282	ILE	CA-C-O	-6.33	114.03	121.05
4	Z	282	ILE	CA-C-O	-6.33	114.03	121.05
4	3	80	ASP	CA-CB-CG	6.33	118.93	112.60
2	K	141	PRO	N-CA-C	6.32	118.42	110.70
4	8	282	ILE	CA-C-O	-6.32	114.03	121.05
4	X	47	MET	CA-CB-CG	-6.32	101.46	114.10
4	5	101	HIS	CB-CG-CD2	-6.32	122.99	131.20
4	2	282	ILE	CA-C-O	-6.31	114.05	121.05
4	8	80	ASP	CA-CB-CG	6.31	118.91	112.60
1	M	47	PHE	CB-CA-C	-6.30	101.03	110.24
1	P	340	ILE	O-C-N	6.30	128.24	121.87
1	D	755	HIS	CA-CB-CG	6.29	120.09	113.80
4	1	282	ILE	CA-C-O	-6.29	114.07	121.05
1	G	524	GLU	N-CA-CB	6.28	119.49	110.06
1	G	688	HIS	CA-CB-CG	-6.28	107.52	113.80
4	9	217	CYS	N-CA-C	6.28	119.58	110.28
4	6	217	CYS	N-CA-C	6.28	119.57	110.28
4	Y	1	ASP	CA-CB-CG	6.27	118.87	112.60
1	J	755	HIS	CA-CB-CG	6.27	120.07	113.80
4	V	1	ASP	CA-CB-CG	6.26	118.86	112.60
1	G	47	PHE	CB-CA-C	-6.26	101.10	110.24
1	M	755	HIS	CA-CB-CG	6.26	120.06	113.80
1	P	755	HIS	CA-CB-CG	6.26	120.06	113.80
4	4	217	CYS	N-CA-C	6.26	119.54	110.28
4	5	217	CYS	N-CA-C	6.26	119.54	110.28
4	V	282	ILE	CA-C-O	-6.25	114.11	121.05
1	P	631	GLU	CA-C-N	6.25	131.92	120.79
1	P	631	GLU	C-N-CA	6.25	131.92	120.79
4	5	282	ILE	CA-C-O	-6.25	114.11	121.05
1	P	443	ILE	CB-CA-C	-6.25	103.88	111.88
1	A	524	GLU	N-CA-CB	6.25	119.43	110.06
1	D	524	GLU	N-CA-CB	6.25	119.43	110.06
4	V	217	CYS	N-CA-C	6.25	119.53	110.28
4	3	217	CYS	N-CA-C	6.25	119.52	110.28
4	Z	1	ASP	CA-CB-CG	6.24	118.84	112.60
1	G	291	ILE	N-CA-C	6.24	116.92	110.36
4	X	1	ASP	CA-CB-CG	6.24	118.84	112.60
1	J	631	GLU	CA-C-N	6.24	131.90	120.79
1	J	631	GLU	C-N-CA	6.24	131.90	120.79
1	D	631	GLU	CA-C-N	6.24	131.89	120.79
1	D	631	GLU	C-N-CA	6.24	131.89	120.79
4	W	217	CYS	N-CA-C	6.24	119.51	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	524	GLU	N-CA-CB	6.23	119.41	110.06
1	M	631	GLU	CA-C-N	6.23	131.87	120.79
1	M	631	GLU	C-N-CA	6.23	131.87	120.79
4	5	1	ASP	CA-CB-CG	6.23	118.83	112.60
1	M	599	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	D	443	ILE	CB-CA-C	-6.22	103.91	111.88
4	W	1	ASP	CA-CB-CG	6.22	118.82	112.60
1	G	755	HIS	CA-CB-CG	6.22	120.02	113.80
1	M	443	ILE	CB-CA-C	-6.22	103.92	111.88
4	8	1	ASP	CA-CB-CG	6.22	118.82	112.60
4	7	217	CYS	N-CA-C	6.22	119.48	110.28
1	M	524	GLU	N-CA-CB	6.21	119.38	110.06
4	3	1	ASP	CA-CB-CG	6.21	118.81	112.60
4	2	1	ASP	CA-CB-CG	6.21	118.81	112.60
1	D	599	ASN	OD1-CG-ND2	-6.21	116.39	122.60
1	J	599	ASN	OD1-CG-ND2	-6.21	116.39	122.60
4	9	1	ASP	CA-CB-CG	6.21	118.81	112.60
1	A	599	ASN	OD1-CG-ND2	-6.21	116.39	122.60
4	X	217	CYS	N-CA-C	6.21	119.47	110.28
1	G	599	ASN	OD1-CG-ND2	-6.20	116.40	122.60
4	8	217	CYS	N-CA-C	6.20	119.46	110.28
1	A	22	LYS	N-CA-C	-6.20	106.31	114.31
4	2	217	CYS	N-CA-C	6.20	119.46	110.28
4	4	1	ASP	CA-CB-CG	6.20	118.80	112.60
4	Z	217	CYS	N-CA-C	6.20	119.45	110.28
1	A	363	ASN	OD1-CG-ND2	6.19	128.79	122.60
1	J	524	GLU	N-CA-CB	6.19	119.34	110.06
4	1	217	CYS	N-CA-C	6.19	119.44	110.28
4	Y	217	CYS	N-CA-C	6.19	119.44	110.28
1	A	443	ILE	CB-CA-C	-6.18	103.97	111.88
2	E	129	THR	CA-CB-CG2	6.18	121.00	110.50
4	6	1	ASP	CA-CB-CG	6.18	118.78	112.60
4	7	1	ASP	CA-CB-CG	6.17	118.77	112.60
1	M	341	LEU	CB-CA-C	6.17	122.23	110.27
1	D	352	TYR	N-CA-CB	6.17	120.98	110.50
4	1	1	ASP	CA-CB-CG	6.17	118.77	112.60
1	D	22	LYS	N-CA-C	-6.16	106.36	114.31
1	J	443	ILE	CB-CA-C	-6.16	103.99	111.88
1	P	22	LYS	N-CA-C	-6.16	106.36	114.31
4	7	219	VAL	N-CA-CB	6.16	119.66	111.90
1	G	341	LEU	CB-CA-C	6.16	122.21	110.27
4	5	205	GLU	N-CA-C	-6.16	104.49	112.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	341	LEU	CB-CA-C	6.15	122.21	110.27
4	Z	205	GLU	N-CA-C	-6.15	104.50	112.68
4	6	205	GLU	N-CA-C	-6.15	104.50	112.68
4	9	219	VAL	CB-CA-C	-6.15	103.00	110.99
1	J	22	LYS	N-CA-C	-6.15	106.38	114.31
4	4	219	VAL	CB-CA-C	-6.15	103.00	110.99
4	5	219	VAL	N-CA-CB	6.14	119.64	111.90
4	Z	219	VAL	CB-CA-C	-6.14	103.00	110.99
1	J	341	LEU	CB-CA-C	6.14	122.19	110.27
1	M	22	LYS	N-CA-C	-6.14	106.39	114.31
1	P	341	LEU	CB-CA-C	6.14	122.18	110.27
1	P	599	ASN	OD1-CG-ND2	-6.14	116.46	122.60
4	3	219	VAL	N-CA-CB	6.14	119.63	111.90
4	2	219	VAL	N-CA-CB	6.14	119.63	111.90
1	G	443	ILE	CB-CA-C	-6.13	104.03	111.88
4	X	219	VAL	N-CA-CB	6.13	119.63	111.90
4	6	219	VAL	CB-CA-C	-6.13	103.02	110.99
4	W	219	VAL	N-CA-CB	6.13	119.62	111.90
4	2	219	VAL	CB-CA-C	-6.13	103.03	110.99
4	Y	205	GLU	N-CA-C	-6.12	104.54	112.68
4	1	219	VAL	CB-CA-C	-6.12	103.03	110.99
1	P	279	LEU	CA-C-N	6.12	126.01	119.28
1	P	279	LEU	C-N-CA	6.12	126.01	119.28
4	3	219	VAL	CB-CA-C	-6.12	103.04	110.99
4	3	205	GLU	N-CA-C	-6.12	104.54	112.68
2	H	129	THR	CA-CB-CG2	6.11	120.89	110.50
4	8	219	VAL	CB-CA-C	-6.11	103.04	110.99
4	7	219	VAL	CB-CA-C	-6.11	103.04	110.99
1	A	631	GLU	CA-C-N	6.11	131.67	120.79
1	A	631	GLU	C-N-CA	6.11	131.67	120.79
1	J	136	ASN	CA-C-O	6.11	124.84	119.71
4	W	205	GLU	N-CA-C	-6.11	104.55	112.68
1	P	785	GLU	N-CA-C	-6.11	104.40	112.34
4	X	219	VAL	CB-CA-C	-6.11	103.05	110.99
1	J	279	LEU	CA-C-N	6.10	125.99	119.28
1	J	279	LEU	C-N-CA	6.10	125.99	119.28
4	3	128	ASN	N-CA-CB	-6.10	102.63	111.91
1	M	279	LEU	CA-C-N	6.10	125.99	119.28
1	M	279	LEU	C-N-CA	6.10	125.99	119.28
4	5	219	VAL	CB-CA-C	-6.10	103.06	110.99
4	1	219	VAL	N-CA-CB	6.10	119.59	111.90
4	8	219	VAL	N-CA-CB	6.10	119.58	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	136	ASN	CA-C-O	6.10	124.83	119.71
1	G	22	LYS	N-CA-C	-6.10	106.44	114.31
1	G	231	ALA	O-C-N	6.10	129.77	122.27
4	9	128	ASN	N-CA-CB	-6.10	102.64	111.91
1	M	686	MET	N-CA-CB	-6.09	100.53	110.59
4	9	205	GLU	N-CA-C	-6.09	104.57	112.68
4	W	219	VAL	CB-CA-C	-6.09	103.07	110.99
1	D	341	LEU	CB-CA-C	6.09	122.09	110.27
4	V	219	VAL	CB-CA-C	-6.09	103.07	110.99
4	V	205	GLU	N-CA-C	-6.09	104.58	112.68
4	V	219	VAL	N-CA-CB	6.09	119.57	111.90
4	W	128	ASN	N-CA-CB	-6.09	102.65	111.91
4	6	128	ASN	N-CA-CB	-6.09	102.66	111.91
4	4	219	VAL	N-CA-CB	6.08	119.57	111.90
4	4	205	GLU	N-CA-C	-6.08	104.59	112.68
1	J	165	PHE	N-CA-CB	-6.08	100.21	110.49
1	G	352	TYR	N-CA-CB	6.08	120.83	110.50
4	Y	128	ASN	N-CA-CB	-6.08	102.67	111.91
4	Z	219	VAL	N-CA-CB	6.08	119.56	111.90
1	G	631	GLU	CA-C-N	6.08	131.61	120.79
1	G	631	GLU	C-N-CA	6.08	131.61	120.79
4	7	205	GLU	N-CA-C	-6.08	104.60	112.68
1	J	231	ALA	O-C-N	6.07	129.74	122.27
4	X	205	GLU	N-CA-C	-6.07	104.60	112.68
4	Y	219	VAL	CB-CA-C	-6.07	103.10	110.99
1	M	180	GLU	N-CA-CB	6.07	118.70	110.38
4	5	128	ASN	N-CA-CB	-6.07	102.68	111.91
1	P	136	ASN	CA-C-O	6.07	124.81	119.71
2	N	129	THR	CA-CB-CG2	6.07	120.81	110.50
4	8	128	ASN	N-CA-CB	-6.07	102.69	111.91
1	G	165	PHE	N-CA-CB	-6.06	100.24	110.49
1	J	686	MET	N-CA-CB	-6.06	100.58	110.59
4	1	205	GLU	N-CA-C	-6.06	104.61	112.68
1	P	231	ALA	O-C-N	6.06	129.72	122.27
4	2	128	ASN	N-CA-CB	-6.06	102.70	111.91
4	2	205	GLU	N-CA-C	-6.06	104.62	112.68
4	7	59	GLN	OE1-CD-NE2	-6.06	116.54	122.60
2	K	129	THR	CA-CB-CG2	6.06	120.80	110.50
4	Y	219	VAL	N-CA-CB	6.06	119.53	111.90
4	V	128	ASN	N-CA-CB	-6.06	102.70	111.91
4	4	128	ASN	N-CA-CB	-6.05	102.71	111.91
1	J	363	ASN	OD1-CG-ND2	6.05	128.65	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	279	LEU	CA-C-N	6.05	125.94	119.28
1	A	279	LEU	C-N-CA	6.05	125.94	119.28
1	D	279	LEU	CA-C-N	6.05	125.94	119.28
1	D	279	LEU	C-N-CA	6.05	125.94	119.28
1	P	180	GLU	N-CA-CB	6.05	118.67	110.38
4	1	95	ARG	CA-CB-CG	6.05	126.20	114.10
4	9	219	VAL	N-CA-CB	6.05	119.52	111.90
4	W	59	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	D	363	ASN	OD1-CG-ND2	6.05	128.65	122.60
4	X	128	ASN	N-CA-CB	-6.05	102.72	111.91
1	P	686	MET	N-CA-CB	-6.04	100.62	110.59
1	A	352	TYR	N-CA-CB	6.04	120.78	110.50
1	M	165	PHE	N-CA-CB	-6.04	100.28	110.49
1	D	686	MET	N-CA-CB	-6.04	100.63	110.59
1	D	231	ALA	O-C-N	6.04	129.70	122.27
1	P	165	PHE	N-CA-CB	-6.04	100.29	110.49
4	6	219	VAL	N-CA-CB	6.04	119.50	111.90
4	7	128	ASN	N-CA-CB	-6.04	102.73	111.91
4	8	205	GLU	N-CA-C	-6.04	104.65	112.68
4	W	95	ARG	CA-CB-CG	6.04	126.17	114.10
4	Z	128	ASN	N-CA-CB	-6.04	102.74	111.91
1	J	747	LEU	N-CA-CB	6.03	118.93	109.94
4	1	128	ASN	N-CA-CB	-6.03	102.74	111.91
4	5	95	ARG	CA-CB-CG	6.03	126.17	114.10
1	J	180	GLU	N-CA-CB	6.03	118.64	110.38
1	G	308	ASN	CA-C-N	6.03	125.65	119.56
1	G	308	ASN	C-N-CA	6.03	125.65	119.56
4	2	95	ARG	CA-CB-CG	6.03	126.16	114.10
1	D	180	GLU	N-CA-CB	6.03	118.63	110.38
4	V	95	ARG	CA-CB-CG	6.02	126.14	114.10
1	M	136	ASN	CA-C-O	6.02	124.77	119.71
4	8	5	THR	CA-C-N	6.02	130.77	120.72
4	8	5	THR	C-N-CA	6.02	130.77	120.72
4	Z	95	ARG	CA-CB-CG	6.02	126.14	114.10
1	J	632	GLY	O-C-N	6.02	129.48	122.68
4	9	59	GLN	OE1-CD-NE2	-6.02	116.58	122.60
4	2	59	GLN	OE1-CD-NE2	-6.02	116.58	122.60
4	X	95	ARG	CA-CB-CG	6.02	126.13	114.10
1	G	592	ILE	CA-C-N	-6.01	113.45	122.47
1	G	592	ILE	C-N-CA	-6.01	113.45	122.47
1	P	747	LEU	N-CA-CB	6.01	118.90	109.94
4	4	252	ASN	CA-CB-CG	6.01	118.61	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	59	GLN	OE1-CD-NE2	-6.01	116.58	122.60
4	8	263	GLN	CA-C-N	6.01	125.63	119.56
4	8	263	GLN	C-N-CA	6.01	125.63	119.56
1	A	231	ALA	O-C-N	6.01	129.66	122.27
1	M	231	ALA	O-C-N	6.01	129.66	122.27
1	M	363	ASN	OD1-CG-ND2	6.01	128.61	122.60
1	M	747	LEU	N-CA-CB	6.01	118.89	109.94
1	G	686	MET	N-CA-CB	-6.01	100.68	110.59
4	7	95	ARG	CA-CB-CG	6.01	126.11	114.10
1	J	352	TYR	N-CA-CB	6.00	120.71	110.50
4	9	231	ALA	N-CA-C	6.00	117.49	111.07
1	A	165	PHE	N-CA-CB	-6.00	100.35	110.49
4	Y	95	ARG	CA-CB-CG	6.00	126.10	114.10
4	5	252	ASN	CA-CB-CG	6.00	118.60	112.60
4	8	59	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	A	632	GLY	O-C-N	6.00	129.46	122.68
1	P	352	TYR	N-CA-CB	6.00	120.69	110.50
1	P	363	ASN	OD1-CG-ND2	6.00	128.60	122.60
2	Q	129	THR	CA-CB-CG2	6.00	120.69	110.50
1	A	308	ASN	CA-C-N	6.00	125.61	119.56
1	A	308	ASN	C-N-CA	6.00	125.61	119.56
4	6	59	GLN	OE1-CD-NE2	-6.00	116.61	122.60
4	8	95	ARG	CA-CB-CG	5.99	126.09	114.10
4	6	95	ARG	CA-CB-CG	5.99	126.08	114.10
4	9	95	ARG	CA-CB-CG	5.99	126.08	114.10
4	3	95	ARG	CA-CB-CG	5.99	126.07	114.10
4	5	263	GLN	CA-C-N	5.99	125.61	119.56
4	5	263	GLN	C-N-CA	5.99	125.61	119.56
4	4	95	ARG	CA-CB-CG	5.99	126.07	114.10
4	5	231	ALA	N-CA-C	5.99	117.47	111.07
4	W	5	THR	CA-C-N	5.99	130.72	120.72
4	W	5	THR	C-N-CA	5.99	130.72	120.72
1	A	136	ASN	O-C-N	5.98	126.29	121.38
4	3	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
1	D	165	PHE	N-CA-CB	-5.98	100.38	110.49
1	P	576	GLU	CA-CB-CG	-5.98	102.14	114.10
4	4	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
4	X	5	THR	CA-C-N	5.98	130.71	120.72
4	X	5	THR	C-N-CA	5.98	130.71	120.72
1	D	747	LEU	N-CA-CB	5.98	118.85	109.94
1	G	278	GLN	OE1-CD-NE2	5.98	128.58	122.60
4	5	5	THR	CA-C-N	5.98	130.70	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	5	5	THR	C-N-CA	5.98	130.70	120.72
4	5	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
4	3	231	ALA	N-CA-C	5.98	117.46	111.07
1	A	686	MET	N-CA-CB	-5.97	100.73	110.59
4	6	231	ALA	N-CA-C	5.97	117.46	111.07
4	V	59	GLN	OE1-CD-NE2	-5.97	116.62	122.60
4	Y	5	THR	CA-C-N	5.97	130.70	120.72
4	Y	5	THR	C-N-CA	5.97	130.70	120.72
1	M	352	TYR	N-CA-CB	5.97	120.65	110.50
1	M	576	GLU	CA-CB-CG	-5.97	102.15	114.10
4	6	5	THR	CA-C-N	5.97	130.69	120.72
4	6	5	THR	C-N-CA	5.97	130.69	120.72
4	1	5	THR	CA-C-N	5.97	130.69	120.72
4	1	5	THR	C-N-CA	5.97	130.69	120.72
4	3	5	THR	CA-C-N	5.97	130.69	120.72
4	3	5	THR	C-N-CA	5.97	130.69	120.72
1	D	790	THR	CA-C-O	5.97	126.71	119.31
1	M	632	GLY	O-C-N	5.97	129.42	122.68
4	4	5	THR	CA-C-N	5.97	130.69	120.72
4	4	5	THR	C-N-CA	5.97	130.69	120.72
1	A	576	GLU	CA-CB-CG	-5.96	102.17	114.10
4	2	5	THR	CA-C-N	5.96	130.68	120.72
4	2	5	THR	C-N-CA	5.96	130.68	120.72
1	G	576	GLU	CA-CB-CG	-5.96	102.18	114.10
1	D	576	GLU	CA-CB-CG	-5.96	102.18	114.10
1	G	136	ASN	CA-C-O	5.96	124.72	119.71
1	J	576	GLU	CA-CB-CG	-5.96	102.18	114.10
4	7	231	ALA	N-CA-C	5.96	117.44	111.07
4	X	59	GLN	OE1-CD-NE2	-5.96	116.64	122.60
1	A	479	CYS	N-CA-CB	5.96	118.81	109.94
4	2	257	CYS	O-C-N	-5.96	116.16	120.27
4	6	252	ASN	CA-CB-CG	5.95	118.55	112.60
1	G	279	LEU	CA-C-N	5.95	125.83	119.28
1	G	279	LEU	C-N-CA	5.95	125.83	119.28
1	M	136	ASN	O-C-N	5.95	126.26	121.38
4	2	335	ARG	CA-CB-CG	5.95	126.00	114.10
1	D	717	TYR	N-CA-C	5.95	121.18	111.37
4	X	335	ARG	CA-CB-CG	5.94	125.99	114.10
1	A	180	GLU	N-CA-CB	5.94	118.52	110.38
1	G	136	ASN	O-C-N	5.94	126.25	121.38
4	4	335	ARG	CA-CB-CG	5.94	125.98	114.10
4	9	335	ARG	CA-CB-CG	5.94	125.98	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	308	ASN	CA-C-N	5.94	125.56	119.56
1	M	308	ASN	C-N-CA	5.94	125.56	119.56
4	1	335	ARG	CA-CB-CG	5.94	125.98	114.10
4	6	263	GLN	CA-C-N	5.94	125.56	119.56
4	6	263	GLN	C-N-CA	5.94	125.56	119.56
4	V	231	ALA	N-CA-C	5.94	117.43	111.07
4	W	252	ASN	CA-CB-CG	5.94	118.54	112.60
4	X	252	ASN	CA-CB-CG	5.94	118.54	112.60
1	G	363	ASN	OD1-CG-ND2	5.94	128.54	122.60
4	W	335	ARG	CA-CB-CG	5.94	125.98	114.10
4	Z	5	THR	CA-C-N	5.94	130.64	120.72
4	Z	5	THR	C-N-CA	5.94	130.64	120.72
1	A	717	TYR	N-CA-C	5.94	121.17	111.37
1	J	753	VAL	N-CA-C	5.94	118.50	109.12
4	3	335	ARG	CA-CB-CG	5.94	125.98	114.10
4	9	5	THR	CA-C-N	5.94	130.63	120.72
4	9	5	THR	C-N-CA	5.94	130.63	120.72
4	Y	335	ARG	CA-CB-CG	5.94	125.97	114.10
4	2	97	ALA	N-CA-C	-5.93	102.30	109.72
1	D	479	CYS	N-CA-CB	5.93	118.96	110.06
4	1	231	ALA	N-CA-C	5.93	117.42	111.07
4	V	5	THR	CA-C-N	5.93	130.63	120.72
4	V	5	THR	C-N-CA	5.93	130.63	120.72
4	Y	231	ALA	N-CA-C	5.93	117.42	111.07
4	4	263	GLN	CA-C-N	5.93	125.55	119.56
4	4	263	GLN	C-N-CA	5.93	125.55	119.56
1	G	180	GLU	N-CA-CB	5.93	118.50	110.38
4	V	252	ASN	CA-CB-CG	5.93	118.53	112.60
1	A	753	VAL	N-CA-C	5.92	118.48	109.12
1	G	717	TYR	N-CA-C	5.92	121.14	111.37
4	1	252	ASN	CA-CB-CG	5.92	118.53	112.60
4	8	335	ARG	CA-CB-CG	5.92	125.95	114.10
4	W	263	GLN	CA-C-N	5.92	125.54	119.56
4	W	263	GLN	C-N-CA	5.92	125.54	119.56
1	M	753	VAL	N-CA-C	5.92	118.48	109.12
4	Y	97	ALA	N-CA-C	-5.92	102.32	109.72
1	D	632	GLY	O-C-N	5.92	129.37	122.68
4	3	97	ALA	N-CA-C	-5.92	102.32	109.72
4	1	263	GLN	CA-C-N	5.92	125.54	119.56
4	1	263	GLN	C-N-CA	5.92	125.54	119.56
4	6	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	Y	252	ASN	CA-CB-CG	5.92	118.52	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	308	ASN	CA-C-N	5.92	125.54	119.56
1	D	308	ASN	C-N-CA	5.92	125.54	119.56
1	J	479	CYS	N-CA-CB	5.92	118.94	110.06
4	2	263	GLN	CA-C-N	5.92	125.54	119.56
4	2	263	GLN	C-N-CA	5.92	125.54	119.56
4	5	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	7	257	CYS	O-C-N	-5.92	116.19	120.27
4	7	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	9	252	ASN	CA-CB-CG	5.92	118.52	112.60
4	X	97	ALA	N-CA-C	-5.92	102.32	109.72
1	D	136	ASN	O-C-N	5.92	126.23	121.38
4	7	252	ASN	CA-CB-CG	5.92	118.52	112.60
4	8	233	SER	CA-C-O	5.92	128.97	120.51
1	M	88	ILE	CB-CG1-CD1	-5.92	101.38	113.80
4	7	97	ALA	N-CA-C	-5.91	102.33	109.72
4	Z	335	ARG	CA-CB-CG	5.91	125.93	114.10
4	X	231	ALA	N-CA-C	5.91	117.40	111.07
4	Y	263	GLN	CA-C-N	5.91	125.53	119.56
4	Y	263	GLN	C-N-CA	5.91	125.53	119.56
4	7	5	THR	CA-C-N	5.91	130.59	120.72
4	7	5	THR	C-N-CA	5.91	130.59	120.72
4	V	233	SER	CA-C-O	5.91	128.96	120.51
4	4	97	ALA	N-CA-C	-5.91	102.34	109.72
1	D	23	GLU	N-CA-C	-5.91	104.92	111.71
1	G	632	GLY	O-C-N	5.91	129.35	122.68
1	M	479	CYS	N-CA-CB	5.91	118.92	110.06
1	P	632	GLY	O-C-N	5.91	129.35	122.68
4	Z	252	ASN	CA-CB-CG	5.91	118.51	112.60
1	J	88	ILE	CB-CG1-CD1	-5.90	101.40	113.80
1	A	747	LEU	N-CA-CB	5.90	118.73	109.94
1	P	136	ASN	O-C-N	5.90	126.22	121.38
4	2	252	ASN	CA-CB-CG	5.90	118.50	112.60
4	4	233	SER	CA-C-O	5.90	128.95	120.51
1	P	463	ASP	CA-CB-CG	5.90	118.50	112.60
4	V	335	ARG	CA-CB-CG	5.90	125.90	114.10
4	W	231	ALA	N-CA-C	5.90	117.38	111.07
1	D	463	ASP	CA-CB-CG	5.90	118.50	112.60
4	3	263	GLN	CA-C-N	5.90	125.52	119.56
4	3	263	GLN	C-N-CA	5.90	125.52	119.56
4	4	231	ALA	N-CA-C	5.90	117.38	111.07
4	6	97	ALA	N-CA-C	-5.90	102.35	109.72
4	7	263	GLN	CA-C-N	5.90	125.52	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	7	263	GLN	C-N-CA	5.90	125.52	119.56
4	Z	231	ALA	N-CA-C	5.90	117.38	111.07
4	9	97	ALA	N-CA-C	-5.90	102.35	109.72
1	D	786	ILE	CB-CA-C	-5.89	104.32	112.04
1	G	88	ILE	CB-CG1-CD1	-5.89	101.42	113.80
1	P	88	ILE	CB-CG1-CD1	-5.89	101.42	113.80
4	9	34	ILE	CB-CA-C	-5.89	102.41	110.90
4	X	34	ILE	CB-CA-C	-5.89	102.41	110.90
1	M	592	ILE	CA-C-N	-5.89	113.63	122.47
1	M	592	ILE	C-N-CA	-5.89	113.63	122.47
4	3	34	ILE	CB-CA-C	-5.89	102.42	110.90
4	9	263	GLN	CA-C-N	5.89	125.51	119.56
4	9	263	GLN	C-N-CA	5.89	125.51	119.56
4	W	97	ALA	N-CA-C	-5.89	102.35	109.72
4	W	233	SER	CA-C-O	5.89	128.94	120.51
1	M	463	ASP	CA-CB-CG	5.89	118.49	112.60
4	4	34	ILE	CB-CA-C	-5.89	102.42	110.90
4	8	231	ALA	N-CA-C	5.89	117.37	111.07
4	V	97	ALA	N-CA-C	-5.89	102.36	109.72
1	J	463	ASP	CA-CB-CG	5.89	118.49	112.60
4	5	34	ILE	CB-CA-C	-5.89	102.42	110.90
1	A	136	ASN	CA-C-O	5.88	124.65	119.71
1	D	592	ILE	CA-C-N	-5.88	113.64	122.47
1	D	592	ILE	C-N-CA	-5.88	113.64	122.47
4	1	97	ALA	N-CA-C	-5.88	102.36	109.72
4	2	233	SER	CA-C-O	5.88	128.92	120.51
4	1	233	SER	CA-C-O	5.88	128.92	120.51
4	2	34	ILE	CB-CA-C	-5.88	102.43	110.90
4	7	34	ILE	CB-CA-C	-5.88	102.43	110.90
1	J	592	ILE	CA-C-N	-5.88	113.65	122.47
1	J	592	ILE	C-N-CA	-5.88	113.65	122.47
4	V	263	GLN	CA-C-N	5.88	125.50	119.56
4	V	263	GLN	C-N-CA	5.88	125.50	119.56
4	Y	34	ILE	CB-CA-C	-5.88	102.44	110.90
1	G	687	GLU	N-CA-CB	5.88	118.93	110.06
1	M	717	TYR	N-CA-C	5.88	121.06	111.37
4	2	231	ALA	N-CA-C	5.87	117.35	111.07
4	7	233	SER	CA-C-O	5.87	128.91	120.51
4	8	34	ILE	CB-CA-C	-5.87	102.44	110.90
4	Y	59	GLN	OE1-CD-NE2	-5.87	116.73	122.60
4	Z	34	ILE	CB-CA-C	-5.87	102.44	110.90
4	Z	263	GLN	CA-C-N	5.87	125.49	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	263	GLN	C-N-CA	5.87	125.49	119.56
1	P	753	VAL	N-CA-C	5.87	118.40	109.12
4	W	34	ILE	CB-CA-C	-5.87	102.44	110.90
4	3	252	ASN	CA-CB-CG	5.87	118.47	112.60
4	X	263	GLN	CA-C-N	5.87	125.48	119.56
4	X	263	GLN	C-N-CA	5.87	125.48	119.56
1	G	753	VAL	N-CA-C	5.86	118.38	109.12
1	D	88	ILE	CB-CG1-CD1	-5.86	101.50	113.80
1	J	739	ASP	N-CA-CB	5.86	119.68	110.71
1	P	23	GLU	N-CA-C	-5.86	104.97	111.71
4	1	59	GLN	OE1-CD-NE2	-5.86	116.74	122.60
4	3	233	SER	CA-C-O	5.86	128.89	120.51
1	P	479	CYS	N-CA-CB	5.86	118.85	110.06
1	P	717	TYR	N-CA-C	5.86	121.04	111.37
4	8	97	ALA	N-CA-C	-5.86	102.40	109.72
1	M	23	GLU	N-CA-C	-5.86	104.97	111.71
4	9	233	SER	CA-C-O	5.86	128.88	120.51
4	V	34	ILE	CB-CA-C	-5.86	102.47	110.90
1	G	479	CYS	N-CA-CB	5.85	118.84	110.06
4	V	257	CYS	O-C-N	-5.85	116.23	120.27
4	1	34	ILE	CB-CA-C	-5.85	102.48	110.90
4	8	252	ASN	CA-CB-CG	5.85	118.45	112.60
4	5	97	ALA	N-CA-C	-5.85	102.41	109.72
4	6	34	ILE	CB-CA-C	-5.85	102.48	110.90
4	Y	233	SER	CA-C-O	5.85	128.87	120.51
1	G	217	THR	O-C-N	5.84	130.05	123.27
1	P	790	THR	CA-C-O	5.84	126.56	119.31
1	D	718	ALA	O-C-N	5.84	128.81	122.15
4	6	233	SER	CA-C-O	5.84	128.86	120.51
1	J	136	ASN	O-C-N	5.84	126.17	121.38
4	4	254	ARG	N-CA-CB	-5.84	100.62	110.49
1	J	717	TYR	N-CA-C	5.84	121.00	111.37
4	V	254	ARG	N-CA-CB	-5.84	100.62	110.49
1	A	88	ILE	CB-CG1-CD1	-5.83	101.55	113.80
1	P	687	GLU	N-CA-CB	5.83	118.87	110.06
4	Z	97	ALA	N-CA-C	-5.83	102.43	109.72
4	Z	233	SER	CA-C-O	5.83	128.85	120.51
1	G	747	LEU	N-CA-CB	5.83	118.62	109.94
1	J	23	GLU	N-CA-C	-5.83	105.01	111.71
1	D	753	VAL	N-CA-C	5.83	118.32	109.12
4	W	254	ARG	N-CA-CB	-5.83	100.65	110.49
4	X	233	SER	CA-C-O	5.83	128.84	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	592	ILE	CA-C-N	-5.82	113.73	122.47
1	A	592	ILE	C-N-CA	-5.82	113.73	122.47
1	P	308	ASN	CA-C-N	5.82	125.44	119.56
1	P	308	ASN	C-N-CA	5.82	125.44	119.56
1	P	592	ILE	CA-C-N	-5.82	113.74	122.47
1	P	592	ILE	C-N-CA	-5.82	113.74	122.47
4	6	254	ARG	N-CA-CB	-5.82	100.65	110.49
4	V	113	LYS	CA-CB-CG	5.82	125.75	114.10
4	X	257	CYS	O-C-N	-5.82	116.25	120.27
1	M	278	GLN	OE1-CD-NE2	5.82	128.42	122.60
4	1	113	LYS	CA-CB-CG	5.82	125.74	114.10
1	A	278	GLN	OE1-CD-NE2	5.82	128.42	122.60
1	J	278	GLN	OE1-CD-NE2	5.82	128.42	122.60
4	2	254	ARG	N-CA-CB	-5.82	100.66	110.49
4	4	257	CYS	O-C-N	-5.82	116.25	120.27
1	J	308	ASN	CA-C-N	5.82	125.43	119.56
1	J	308	ASN	C-N-CA	5.82	125.43	119.56
4	Y	257	CYS	O-C-N	-5.82	116.26	120.27
4	Y	254	ARG	N-CA-CB	-5.81	100.66	110.49
1	A	23	GLU	N-CA-C	-5.81	105.03	111.71
1	J	790	THR	CA-C-O	5.81	126.52	119.31
1	M	217	THR	O-C-N	5.81	130.01	123.27
1	M	790	THR	CA-C-O	5.81	126.52	119.31
4	8	254	ARG	N-CA-CB	-5.81	100.67	110.49
1	J	718	ALA	O-C-N	5.81	128.78	122.15
4	3	254	ARG	N-CA-CB	-5.81	100.67	110.49
1	A	790	THR	CA-C-O	5.81	126.51	119.31
1	D	278	GLN	OE1-CD-NE2	5.80	128.40	122.60
1	J	687	GLU	N-CA-CB	5.80	118.83	110.06
1	P	217	THR	O-C-N	5.80	130.00	123.27
4	1	257	CYS	O-C-N	-5.80	116.27	120.27
4	9	254	ARG	N-CA-CB	-5.80	100.69	110.49
1	M	687	GLU	N-CA-CB	5.80	118.81	110.06
4	4	113	LYS	CA-CB-CG	5.80	125.69	114.10
1	D	687	GLU	N-CA-CB	5.79	118.81	110.06
1	G	463	ASP	CA-CB-CG	5.79	118.39	112.60
4	7	254	ARG	N-CA-CB	-5.79	100.70	110.49
4	X	254	ARG	N-CA-CB	-5.79	100.70	110.49
4	1	254	ARG	N-CA-CB	-5.79	100.71	110.49
4	5	335	ARG	N-CA-C	5.79	123.13	110.80
4	2	113	LYS	CA-CB-CG	5.79	125.67	114.10
4	1	335	ARG	N-CA-C	5.79	123.12	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	5	233	SER	CA-C-O	5.79	128.78	120.51
4	8	113	LYS	CA-CB-CG	5.79	125.67	114.10
4	Z	113	LYS	CA-CB-CG	5.79	125.67	114.10
1	A	786	ILE	CB-CA-C	-5.78	104.47	112.04
1	G	739	ASP	N-CA-CB	5.78	119.56	110.71
1	P	739	ASP	N-CA-CB	5.78	119.56	110.71
4	5	257	CYS	O-C-N	-5.78	116.28	120.27
4	5	254	ARG	N-CA-CB	-5.78	100.72	110.49
4	9	257	CYS	O-C-N	-5.78	116.28	120.27
4	9	113	LYS	CA-CB-CG	5.78	125.66	114.10
4	W	113	LYS	CA-CB-CG	5.78	125.66	114.10
1	P	278	GLN	OE1-CD-NE2	5.78	128.38	122.60
4	Y	135	ALA	O-C-N	-5.78	116.59	123.06
4	6	335	ARG	N-CA-C	5.77	123.10	110.80
4	7	135	ALA	O-C-N	-5.77	116.59	123.06
1	G	739	ASP	CB-CA-C	-5.77	102.77	110.79
1	J	217	THR	O-C-N	5.77	129.97	123.27
2	K	138	ALA	CA-C-N	-5.77	110.85	121.41
2	K	138	ALA	C-N-CA	-5.77	110.85	121.41
4	4	335	ARG	N-CA-C	5.77	123.10	110.80
1	A	687	GLU	N-CA-CB	5.77	118.77	110.06
4	2	161	HIS	CB-CG-CD2	-5.77	123.70	131.20
4	5	161	HIS	CB-CG-CD2	-5.77	123.70	131.20
4	6	257	CYS	O-C-N	-5.77	116.29	120.27
4	8	257	CYS	O-C-N	-5.77	116.29	120.27
4	W	335	ARG	N-CA-C	5.77	123.08	110.80
4	Z	335	ARG	N-CA-C	5.77	123.08	110.80
4	Z	257	CYS	O-C-N	-5.77	116.29	120.27
1	D	739	ASP	N-CA-CB	5.76	119.53	110.71
1	M	785	GLU	N-CA-C	-5.76	104.37	111.75
4	2	335	ARG	N-CA-C	5.76	123.08	110.80
4	7	113	LYS	CA-CB-CG	5.76	125.63	114.10
4	X	113	LYS	CA-CB-CG	5.76	125.63	114.10
4	Z	254	ARG	N-CA-CB	-5.76	100.75	110.49
1	M	739	ASP	N-CA-CB	5.76	119.52	110.71
4	6	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
1	G	23	GLU	N-CA-C	-5.76	105.09	111.71
4	3	113	LYS	CA-CB-CG	5.76	125.61	114.10
4	4	161	HIS	CB-CG-CD2	-5.76	123.72	131.20
4	6	113	LYS	CA-CB-CG	5.76	125.61	114.10
4	7	335	ARG	N-CA-C	5.75	123.06	110.80
4	Z	161	HIS	CB-CG-CD2	-5.75	123.72	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	718	ALA	O-C-N	5.75	128.71	122.15
4	9	335	ARG	N-CA-C	5.75	123.06	110.80
4	V	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	X	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	Y	335	ARG	N-CA-C	5.75	123.05	110.80
1	G	790	THR	CA-C-O	5.75	126.44	119.31
4	W	257	CYS	O-C-N	-5.75	116.30	120.27
1	J	433	VAL	N-CA-C	5.75	115.94	110.42
4	X	135	ALA	O-C-N	-5.75	116.62	123.06
4	X	335	ARG	N-CA-C	5.75	123.05	110.80
4	8	161	HIS	CB-CG-CD2	-5.75	123.73	131.20
4	Y	113	LYS	CA-CB-CG	5.75	125.59	114.10
1	A	463	ASP	CA-CB-CG	5.75	118.34	112.60
1	A	739	ASP	N-CA-CB	5.75	119.50	110.71
1	G	828	HIS	CA-C-N	5.74	129.24	121.20
1	G	828	HIS	C-N-CA	5.74	129.24	121.20
4	5	135	ALA	O-C-N	-5.74	116.63	123.06
4	3	257	CYS	O-C-N	-5.74	116.31	120.27
4	8	135	ALA	O-C-N	-5.74	116.63	123.06
1	P	739	ASP	CB-CA-C	-5.74	102.81	110.79
4	7	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	D	828	HIS	CA-C-N	5.73	129.22	121.20
1	D	828	HIS	C-N-CA	5.73	129.22	121.20
4	4	135	ALA	O-C-N	-5.73	116.64	123.06
4	V	335	ARG	N-CA-C	5.73	123.01	110.80
4	X	185	LEU	N-CA-C	5.73	118.47	111.82
4	Y	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	A	217	THR	O-C-N	5.73	129.92	123.27
1	G	433	VAL	N-CA-C	5.73	115.92	110.42
4	5	113	LYS	CA-CB-CG	5.73	125.56	114.10
1	A	718	ALA	O-C-N	5.73	128.68	122.15
1	M	718	ALA	O-C-N	5.72	128.67	122.15
4	3	335	ARG	N-CA-C	5.72	122.99	110.80
4	8	335	ARG	N-CA-C	5.72	122.99	110.80
4	X	263	GLN	OE1-CD-NE2	-5.72	116.88	122.60
2	H	138	ALA	CA-C-N	-5.72	110.94	121.41
2	H	138	ALA	C-N-CA	-5.72	110.94	121.41
4	9	135	ALA	O-C-N	-5.72	116.66	123.06
4	W	161	HIS	CB-CG-CD2	-5.72	123.77	131.20
4	8	263	GLN	OE1-CD-NE2	-5.71	116.89	122.60
4	6	263	GLN	OE1-CD-NE2	-5.71	116.89	122.60
4	3	135	ALA	O-C-N	-5.71	116.66	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Q	138	ALA	CA-C-N	-5.71	110.96	121.41
2	Q	138	ALA	C-N-CA	-5.71	110.96	121.41
4	5	263	GLN	OE1-CD-NE2	-5.71	116.89	122.60
4	W	135	ALA	O-C-N	-5.71	116.67	123.06
4	3	185	LEU	N-CA-C	5.71	118.44	111.82
4	1	161	HIS	CB-CG-CD2	-5.70	123.79	131.20
4	3	161	HIS	CB-CG-CD2	-5.70	123.79	131.20
2	E	138	ALA	CA-C-N	-5.70	110.98	121.41
2	E	138	ALA	C-N-CA	-5.70	110.98	121.41
1	J	291	ILE	N-CA-C	5.70	117.12	110.62
4	1	135	ALA	O-C-N	-5.70	116.68	123.06
4	6	135	ALA	O-C-N	-5.70	116.68	123.06
4	9	185	LEU	N-CA-C	5.70	118.43	111.82
4	V	263	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	M	739	ASP	CB-CA-C	-5.69	102.88	110.79
4	Z	135	ALA	O-C-N	-5.69	116.68	123.06
1	J	739	ASP	CB-CA-C	-5.69	102.88	110.79
4	9	161	HIS	CB-CG-CD2	-5.69	123.81	131.20
4	3	263	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	D	22	LYS	CB-CA-C	5.68	118.57	109.02
3	I	63	ILE	CB-CA-C	5.68	120.71	110.48
1	J	828	HIS	CA-C-N	5.68	129.16	121.20
1	J	828	HIS	C-N-CA	5.68	129.16	121.20
1	P	433	VAL	N-CA-C	5.68	115.88	110.42
4	1	262	PHE	CA-CB-CG	-5.68	108.11	113.80
4	1	263	GLN	OE1-CD-NE2	-5.68	116.92	122.60
4	X	262	PHE	CA-CB-CG	-5.68	108.11	113.80
1	A	739	ASP	CB-CA-C	-5.68	102.89	110.79
2	N	138	ALA	CA-C-N	-5.68	111.01	121.41
2	N	138	ALA	C-N-CA	-5.68	111.01	121.41
4	1	185	LEU	N-CA-C	5.68	118.41	111.82
4	9	263	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	M	257	THR	N-CA-C	-5.68	104.78	110.97
1	P	291	ILE	N-CA-C	5.68	117.09	110.62
1	A	22	LYS	CB-CA-C	5.67	118.55	109.02
1	M	291	ILE	N-CA-C	5.67	117.09	110.62
4	4	263	GLN	OE1-CD-NE2	-5.67	116.92	122.60
4	6	185	LEU	N-CA-C	5.67	118.40	111.82
1	D	346	ASP	N-CA-CB	-5.67	101.20	109.82
3	F	63	ILE	CB-CA-C	5.67	120.69	110.48
1	P	568	PRO	CB-CA-C	-5.67	103.97	111.23
4	5	185	LEU	N-CA-C	5.67	118.40	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	V	185	LEU	N-CA-C	5.67	118.40	111.82
1	G	22	LYS	CB-CA-C	5.67	118.55	109.02
4	Z	262	PHE	CA-CB-CG	-5.67	108.13	113.80
1	A	828	HIS	CA-C-N	5.67	129.13	121.20
1	A	828	HIS	C-N-CA	5.67	129.13	121.20
1	D	217	THR	O-C-N	5.67	129.85	123.27
1	D	351	ILE	CB-CA-C	-5.67	104.62	111.88
4	4	185	LEU	N-CA-C	5.67	118.39	111.82
1	A	433	VAL	N-CA-C	5.67	115.86	110.42
1	M	346	ASP	N-CA-CB	-5.67	101.21	109.82
1	P	351	ILE	CB-CA-C	-5.66	104.63	111.88
1	P	346	ASP	N-CA-CB	-5.66	101.21	109.82
4	3	262	PHE	CA-CB-CG	-5.66	108.14	113.80
1	M	433	VAL	N-CA-C	5.66	115.85	110.42
4	W	263	GLN	OE1-CD-NE2	-5.66	116.94	122.60
4	Y	263	GLN	OE1-CD-NE2	-5.66	116.94	122.60
4	W	185	LEU	N-CA-C	5.66	118.38	111.82
4	V	135	ALA	O-C-N	-5.65	116.73	123.06
4	W	262	PHE	CA-CB-CG	-5.65	108.15	113.80
1	D	739	ASP	CB-CA-C	-5.65	102.93	110.79
4	9	262	PHE	CA-CB-CG	-5.65	108.15	113.80
4	Z	185	LEU	N-CA-C	5.65	118.38	111.82
1	J	22	LYS	CB-CA-C	5.65	118.51	109.02
4	Y	185	LEU	N-CA-C	5.65	118.38	111.82
1	A	196	PHE	CA-CB-CG	-5.65	108.15	113.80
4	Z	263	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	D	291	ILE	N-CA-C	5.65	117.06	110.62
1	J	346	ASP	N-CA-CB	-5.65	101.24	109.82
1	P	22	LYS	CB-CA-C	5.64	118.50	109.02
4	7	263	GLN	OE1-CD-NE2	-5.64	116.95	122.60
4	8	185	LEU	N-CA-C	5.64	118.37	111.82
1	A	346	ASP	N-CA-CB	-5.64	101.24	109.82
3	O	63	ILE	CB-CA-C	5.64	120.64	110.48
4	2	135	ALA	O-C-N	-5.64	116.74	123.06
3	R	63	ILE	CB-CA-C	5.64	120.63	110.48
4	2	185	LEU	N-CA-C	5.64	118.36	111.82
4	8	262	PHE	CA-CB-CG	-5.64	108.16	113.80
1	G	718	ALA	O-C-N	5.64	128.57	122.15
1	M	568	PRO	CB-CA-C	-5.64	104.02	111.23
1	D	433	VAL	N-CA-C	5.63	115.83	110.42
1	M	22	LYS	CB-CA-C	5.63	118.48	109.02
1	D	196	PHE	CA-CB-CG	-5.63	108.17	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	V	262	PHE	CA-CB-CG	-5.63	108.17	113.80
1	A	351	ILE	CB-CA-C	-5.63	104.68	111.88
4	7	185	LEU	N-CA-C	5.63	118.35	111.82
4	7	262	PHE	CA-CB-CG	-5.63	108.17	113.80
1	A	257	THR	N-CA-C	-5.62	104.84	110.97
1	G	257	THR	N-CA-C	-5.62	104.84	110.97
1	J	568	PRO	CB-CA-C	-5.62	104.03	111.23
4	5	262	PHE	CA-CB-CG	-5.62	108.18	113.80
4	6	262	PHE	CA-CB-CG	-5.62	108.18	113.80
1	G	623	PHE	CB-CG-CD2	-5.62	111.15	120.70
1	D	755	HIS	CA-C-N	5.62	129.52	121.71
1	D	755	HIS	C-N-CA	5.62	129.52	121.71
4	4	262	PHE	CA-CB-CG	-5.62	108.19	113.80
3	L	63	ILE	CB-CA-C	5.61	120.58	110.48
1	A	755	HIS	CA-C-N	5.61	129.50	121.71
1	A	755	HIS	C-N-CA	5.61	129.50	121.71
1	A	568	PRO	CB-CA-C	-5.61	104.06	111.23
1	M	351	ILE	CB-CA-C	-5.60	104.71	111.88
1	J	351	ILE	CB-CA-C	-5.60	104.71	111.88
1	M	828	HIS	CA-C-N	5.60	129.04	121.20
1	M	828	HIS	C-N-CA	5.60	129.04	121.20
1	A	291	ILE	N-CA-C	5.60	117.00	110.62
4	Y	262	PHE	CA-CB-CG	-5.59	108.21	113.80
1	J	755	HIS	CA-C-N	5.59	129.48	121.71
1	J	755	HIS	C-N-CA	5.59	129.48	121.71
1	M	623	PHE	CB-CG-CD2	-5.59	111.20	120.70
1	J	257	THR	N-CA-C	-5.59	104.88	110.97
1	P	755	HIS	CA-C-N	5.59	129.47	121.71
1	P	755	HIS	C-N-CA	5.59	129.47	121.71
1	D	257	THR	N-CA-C	-5.58	104.88	110.97
1	A	623	PHE	CB-CG-CD2	-5.58	111.21	120.70
1	P	828	HIS	CA-C-N	5.58	129.01	121.20
1	P	828	HIS	C-N-CA	5.58	129.01	121.20
1	G	351	ILE	CB-CA-C	-5.58	104.74	111.88
1	P	257	THR	N-CA-C	-5.58	104.89	110.97
4	2	263	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	G	346	ASP	N-CA-CB	-5.57	101.35	109.82
1	D	623	PHE	CB-CG-CD2	-5.57	111.23	120.70
1	P	623	PHE	CB-CG-CD2	-5.57	111.24	120.70
1	J	623	PHE	CB-CG-CD2	-5.57	111.24	120.70
4	2	262	PHE	CA-CB-CG	-5.57	108.23	113.80
1	D	671	PHE	N-CA-C	5.56	118.88	109.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	755	HIS	CA-C-N	5.56	129.44	121.71
1	G	755	HIS	C-N-CA	5.56	129.44	121.71
1	G	785	GLU	CA-C-N	-5.56	111.97	121.97
1	G	785	GLU	C-N-CA	-5.56	111.97	121.97
4	2	275	HIS	CB-CG-CD2	-5.55	123.98	131.20
4	8	137	GLN	CA-C-O	-5.55	115.17	121.00
1	J	671	PHE	N-CA-C	5.55	118.87	109.76
4	9	44	MET	N-CA-C	-5.55	102.31	110.52
4	V	137	GLN	CA-C-O	-5.55	115.17	121.00
4	X	44	MET	N-CA-C	-5.55	102.31	110.52
1	G	568	PRO	CB-CA-C	-5.55	104.13	111.23
4	4	44	MET	N-CA-C	-5.55	102.31	110.52
1	P	671	PHE	N-CA-C	5.54	118.85	109.76
4	7	44	MET	N-CA-C	-5.54	102.32	110.52
1	G	309	PRO	CB-CA-C	-5.54	103.59	111.68
4	9	31	PHE	CA-CB-CG	5.54	119.34	113.80
4	1	137	GLN	CA-C-O	-5.54	115.19	121.00
4	5	44	MET	N-CA-C	-5.54	102.32	110.52
4	9	312	ARG	NE-CZ-NH2	5.54	124.18	119.20
1	P	309	PRO	CB-CA-C	-5.53	103.60	111.68
1	D	309	PRO	CB-CA-C	-5.53	103.60	111.68
4	9	137	GLN	CA-C-O	-5.53	115.19	121.00
4	Y	44	MET	N-CA-C	-5.53	102.33	110.52
1	G	333	ALA	CA-C-O	5.53	126.81	120.90
4	X	312	ARG	NE-CZ-NH2	5.53	124.17	119.20
4	Z	137	GLN	CA-C-O	-5.53	115.20	121.00
4	Z	275	HIS	CB-CG-CD2	-5.53	124.02	131.20
1	G	196	PHE	CA-CB-CG	-5.52	108.28	113.80
4	3	44	MET	N-CA-C	-5.52	102.35	110.52
1	G	671	PHE	N-CA-C	5.52	118.81	109.76
1	J	309	PRO	CB-CA-C	-5.52	103.62	111.68
4	4	200	PHE	CA-C-O	5.52	127.90	121.11
4	X	137	GLN	CA-C-O	-5.52	115.20	121.00
4	Y	31	PHE	CA-CB-CG	5.52	119.32	113.80
4	9	116	ARG	N-CA-C	-5.52	105.27	111.28
4	1	200	PHE	CA-C-O	5.52	127.89	121.11
1	M	671	PHE	N-CA-C	5.51	118.81	109.76
4	8	312	ARG	NE-CZ-NH2	5.51	124.16	119.20
4	Z	200	PHE	CA-C-O	5.51	127.89	121.11
4	3	275	HIS	CB-CG-CD2	-5.51	124.03	131.20
4	2	200	PHE	CA-C-O	5.51	127.89	121.11
1	M	309	PRO	CB-CA-C	-5.51	103.64	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1	44	MET	N-CA-C	-5.51	102.37	110.52
4	Z	44	MET	N-CA-C	-5.51	102.36	110.52
4	W	44	MET	N-CA-C	-5.51	102.37	110.52
4	W	275	HIS	CB-CG-CD2	-5.51	124.04	131.20
1	D	568	PRO	CB-CA-C	-5.51	104.18	111.23
4	8	44	MET	N-CA-C	-5.51	102.37	110.52
4	3	116	ARG	N-CA-C	-5.50	105.28	111.28
4	W	312	ARG	NE-CZ-NH2	5.50	124.16	119.20
4	Y	200	PHE	CA-C-O	5.50	127.88	121.11
4	8	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	4	312	ARG	NE-CZ-NH2	5.50	124.15	119.20
1	D	333	ALA	CA-C-O	5.50	126.78	120.90
4	7	349	LEU	CA-C-N	5.50	127.64	120.28
4	7	349	LEU	C-N-CA	5.50	127.64	120.28
4	8	200	PHE	CA-C-O	5.50	127.87	121.11
4	4	275	HIS	CB-CG-CD2	-5.49	124.06	131.20
4	W	200	PHE	CA-C-O	5.49	127.87	121.11
4	X	275	HIS	CB-CG-CD2	-5.49	124.06	131.20
4	Y	275	HIS	CB-CG-CD2	-5.49	124.06	131.20
1	M	755	HIS	CA-C-N	5.49	129.34	121.71
1	M	755	HIS	C-N-CA	5.49	129.34	121.71
4	1	312	ARG	NE-CZ-NH2	5.49	124.14	119.20
4	9	226	GLU	N-CA-C	-5.49	107.23	114.04
4	W	349	LEU	CA-C-N	5.49	127.64	120.28
4	W	349	LEU	C-N-CA	5.49	127.64	120.28
4	Z	349	LEU	CA-C-N	5.49	127.64	120.28
4	Z	349	LEU	C-N-CA	5.49	127.64	120.28
1	G	203	GLY	N-CA-C	-5.49	106.24	115.62
4	V	44	MET	N-CA-C	-5.48	102.40	110.52
1	J	196	PHE	CA-CB-CG	-5.48	108.32	113.80
4	9	200	PHE	CA-C-O	5.48	127.85	121.11
4	4	137	GLN	CA-C-O	-5.48	115.25	121.00
4	V	200	PHE	CA-C-O	5.48	127.85	121.11
4	6	275	HIS	CB-CG-CD2	-5.48	124.08	131.20
4	Z	116	ARG	N-CA-C	-5.48	105.31	111.28
1	D	203	GLY	N-CA-C	-5.48	106.25	115.62
1	M	196	PHE	CA-CB-CG	-5.48	108.32	113.80
4	2	349	LEU	CA-C-N	5.48	127.62	120.28
4	2	349	LEU	C-N-CA	5.48	127.62	120.28
1	P	333	ALA	CA-C-O	5.48	126.76	120.90
1	J	333	ALA	CA-C-O	5.47	126.76	120.90
4	2	31	PHE	CA-CB-CG	5.47	119.27	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	5	200	PHE	CA-C-O	5.47	127.84	121.11
4	5	275	HIS	CB-CG-CD2	-5.47	124.08	131.20
4	X	200	PHE	CA-C-O	5.47	127.84	121.11
1	D	305	ILE	CB-CA-C	-5.47	103.68	111.34
4	4	349	LEU	CA-C-N	5.47	127.61	120.28
4	4	349	LEU	C-N-CA	5.47	127.61	120.28
4	5	137	GLN	CA-C-O	-5.47	115.26	121.00
4	6	226	GLU	N-CA-C	-5.47	107.26	114.04
4	1	275	HIS	CB-CG-CD2	-5.47	124.09	131.20
4	2	44	MET	N-CA-C	-5.47	102.43	110.52
4	1	31	PHE	CA-CB-CG	5.47	119.27	113.80
4	6	31	PHE	CA-CB-CG	5.47	119.27	113.80
4	Y	116	ARG	N-CA-C	-5.47	105.32	111.28
1	D	632	GLY	N-CA-C	5.46	120.77	114.16
4	1	349	LEU	CA-C-N	5.46	127.60	120.28
4	1	349	LEU	C-N-CA	5.46	127.60	120.28
4	2	312	ARG	NE-CZ-NH2	5.46	124.12	119.20
4	8	226	GLU	N-CA-C	-5.46	107.26	114.04
4	9	275	HIS	CB-CG-CD2	-5.46	124.10	131.20
4	X	31	PHE	CA-CB-CG	5.46	119.26	113.80
4	7	31	PHE	CA-CB-CG	5.46	119.26	113.80
4	9	349	LEU	CA-C-N	5.46	127.60	120.28
4	9	349	LEU	C-N-CA	5.46	127.60	120.28
4	2	116	ARG	N-CA-C	-5.46	105.33	111.28
4	5	31	PHE	CA-CB-CG	5.46	119.26	113.80
4	7	137	GLN	CA-C-O	-5.46	115.27	121.00
4	8	31	PHE	CA-CB-CG	5.46	119.26	113.80
4	V	349	LEU	CA-C-N	5.46	127.60	120.28
4	V	349	LEU	C-N-CA	5.46	127.60	120.28
4	Z	312	ARG	NE-CZ-NH2	5.46	124.11	119.20
4	4	31	PHE	CA-CB-CG	5.46	119.26	113.80
4	4	116	ARG	N-CA-C	-5.46	105.33	111.28
4	6	44	MET	N-CA-C	-5.46	102.44	110.52
4	Z	31	PHE	CA-CB-CG	5.46	119.26	113.80
1	P	196	PHE	CA-CB-CG	-5.46	108.34	113.80
4	7	275	HIS	CB-CG-CD2	-5.46	124.11	131.20
4	V	275	HIS	CB-CG-CD2	-5.45	124.11	131.20
4	W	116	ARG	N-CA-C	-5.45	105.34	111.28
4	7	312	ARG	NE-CZ-NH2	5.45	124.11	119.20
4	X	116	ARG	N-CA-C	-5.45	105.34	111.28
4	3	237	GLU	N-CA-C	5.45	117.32	110.24
4	V	116	ARG	N-CA-C	-5.45	105.34	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	173	GLN	N-CA-CB	-5.45	102.88	111.05
4	6	312	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	A	203	GLY	N-CA-C	-5.44	106.31	115.62
1	A	305	ILE	CB-CA-C	-5.44	103.72	111.34
1	J	203	GLY	N-CA-C	-5.44	106.31	115.62
4	6	137	GLN	CA-C-O	-5.44	115.28	121.00
4	3	31	PHE	CA-CB-CG	5.44	119.24	113.80
4	Y	137	GLN	CA-C-O	-5.44	115.29	121.00
4	5	226	GLU	N-CA-C	-5.44	107.30	114.04
1	A	671	PHE	N-CA-C	5.44	118.68	109.76
4	3	312	ARG	NE-CZ-NH2	5.44	124.09	119.20
4	7	200	PHE	CA-C-O	5.44	127.80	121.11
4	3	349	LEU	CA-C-N	5.44	127.56	120.28
4	3	349	LEU	C-N-CA	5.44	127.56	120.28
4	V	226	GLU	N-CA-C	-5.44	107.30	114.04
1	P	203	GLY	N-CA-C	-5.43	106.33	115.62
4	5	312	ARG	NE-CZ-NH2	5.43	124.09	119.20
4	6	200	PHE	CA-C-O	5.43	127.80	121.11
1	P	173	GLN	N-CA-CB	-5.43	102.90	111.05
4	3	137	GLN	CA-C-O	-5.43	115.30	121.00
4	Y	312	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	A	309	PRO	CB-CA-C	-5.43	103.75	111.68
4	1	226	GLU	N-CA-C	-5.43	107.31	114.04
4	5	116	ARG	N-CA-C	-5.43	105.36	111.28
4	X	226	GLU	N-CA-C	-5.43	107.31	114.04
4	Z	226	GLU	N-CA-C	-5.43	107.31	114.04
4	W	226	GLU	N-CA-C	-5.43	107.31	114.04
1	M	333	ALA	CA-C-O	5.43	126.71	120.90
4	7	257	CYS	N-CA-CB	-5.43	105.23	110.39
4	Y	349	LEU	CA-C-N	5.43	127.55	120.28
4	Y	349	LEU	C-N-CA	5.43	127.55	120.28
1	M	291	ILE	CB-CA-C	-5.42	104.93	112.04
1	J	291	ILE	CB-CA-C	-5.42	104.94	112.04
4	8	349	LEU	CA-C-N	5.42	127.55	120.28
4	8	349	LEU	C-N-CA	5.42	127.55	120.28
4	X	349	LEU	CA-C-N	5.42	127.55	120.28
4	X	349	LEU	C-N-CA	5.42	127.55	120.28
4	7	226	GLU	N-CA-C	-5.42	107.32	114.04
1	A	632	GLY	N-CA-C	5.42	120.72	114.16
4	5	349	LEU	CA-C-N	5.42	127.54	120.28
4	5	349	LEU	C-N-CA	5.42	127.54	120.28
4	3	200	PHE	CA-C-O	5.42	127.78	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	116	ARG	N-CA-C	-5.42	105.37	111.28
4	1	116	ARG	N-CA-C	-5.42	105.38	111.28
1	J	305	ILE	CB-CA-C	-5.42	103.76	111.34
1	M	173	GLN	N-CA-CB	-5.42	102.93	111.05
1	M	203	GLY	N-CA-C	-5.42	106.36	115.62
4	2	237	GLU	N-CA-C	5.41	117.28	110.24
1	J	709	LYS	CA-C-N	-5.41	110.81	121.41
1	J	709	LYS	C-N-CA	-5.41	110.81	121.41
4	2	226	GLU	N-CA-C	-5.41	107.33	114.04
4	6	349	LEU	CA-C-N	5.41	127.53	120.28
4	6	349	LEU	C-N-CA	5.41	127.53	120.28
4	W	137	GLN	CA-C-O	-5.41	115.32	121.00
4	V	237	GLU	N-CA-C	5.41	117.27	110.24
1	G	632	GLY	N-CA-C	5.41	120.70	114.16
4	6	116	ARG	N-CA-C	-5.41	105.39	111.28
4	3	226	GLU	N-CA-C	-5.40	107.34	114.04
4	7	237	GLU	N-CA-C	5.40	117.27	110.24
4	4	237	GLU	N-CA-C	5.40	117.26	110.24
4	V	31	PHE	CA-CB-CG	5.40	119.20	113.80
4	4	226	GLU	N-CA-C	-5.40	107.34	114.04
4	V	312	ARG	NE-CZ-NH2	5.40	124.06	119.20
4	X	237	GLU	N-CA-C	5.40	117.26	110.24
4	Y	226	GLU	N-CA-C	-5.39	107.35	114.04
1	A	173	GLN	N-CA-CB	-5.39	102.96	111.05
1	D	173	GLN	N-CA-CB	-5.39	102.96	111.05
4	W	31	PHE	CA-CB-CG	5.39	119.19	113.80
2	K	129	THR	O-C-N	-5.39	115.12	121.32
1	A	333	ALA	CA-C-O	5.39	126.67	120.90
4	5	349	LEU	O-C-N	5.39	129.50	122.87
4	5	257	CYS	N-CA-CB	-5.39	105.27	110.39
4	Y	237	GLU	N-CA-C	5.39	117.24	110.24
1	G	173	GLN	N-CA-CB	-5.38	102.97	111.05
1	M	305	ILE	CB-CA-C	-5.38	103.80	111.34
1	P	632	GLY	N-CA-C	5.38	120.67	114.16
1	G	447	GLN	CB-CA-C	5.38	119.72	110.79
1	G	305	ILE	CB-CA-C	-5.38	103.81	111.34
4	5	237	GLU	N-CA-C	5.38	117.23	110.24
4	3	349	LEU	O-C-N	5.38	129.48	122.87
1	M	632	GLY	N-CA-C	5.37	120.66	114.16
4	8	237	GLU	N-CA-C	5.37	117.23	110.24
4	1	257	CYS	N-CA-CB	-5.37	105.29	110.39
4	4	257	CYS	N-CA-CB	-5.37	105.29	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	329	GLU	CA-C-O	5.37	126.11	120.42
4	W	91	TYR	N-CA-C	5.37	118.99	112.23
4	W	237	GLU	N-CA-C	5.37	117.22	110.24
4	W	257	CYS	N-CA-CB	-5.37	105.29	110.39
1	G	772	LEU	N-CA-C	-5.37	104.88	111.75
4	6	257	CYS	N-CA-CB	-5.37	105.29	110.39
4	9	257	CYS	N-CA-CB	-5.37	105.29	110.39
1	D	447	GLN	CB-CA-C	5.36	119.69	110.79
1	P	447	GLN	CB-CA-C	5.36	119.69	110.79
4	2	137	GLN	CA-C-O	-5.36	115.37	121.00
4	9	237	GLU	N-CA-C	5.36	117.21	110.24
4	Z	257	CYS	N-CA-CB	-5.36	105.30	110.39
1	M	447	GLN	CB-CA-C	5.36	119.69	110.79
1	M	669	PRO	N-CA-CB	5.36	108.09	103.27
1	G	291	ILE	CB-CA-C	-5.36	105.03	111.88
4	1	237	GLU	N-CA-C	5.36	117.20	110.24
4	3	257	CYS	N-CA-CB	-5.36	105.30	110.39
4	6	349	LEU	O-C-N	5.36	129.46	122.87
4	7	251	GLY	O-C-N	5.36	129.66	122.70
4	Z	237	GLU	N-CA-C	5.35	117.20	110.24
1	D	649	VAL	CA-C-N	5.35	131.76	121.54
1	D	649	VAL	C-N-CA	5.35	131.76	121.54
4	4	349	LEU	O-C-N	5.35	129.46	122.87
4	7	116	ARG	N-CA-C	-5.35	105.45	111.28
4	X	349	LEU	O-C-N	5.35	129.46	122.87
4	V	257	CYS	N-CA-CB	-5.35	105.31	110.39
1	G	649	VAL	CA-C-N	5.35	131.76	121.54
1	G	649	VAL	C-N-CA	5.35	131.76	121.54
1	D	291	ILE	CB-CA-C	-5.34	105.04	112.04
4	1	91	TYR	N-CA-C	5.34	118.97	112.23
4	5	79	TRP	CG-CD2-CE3	5.34	139.25	133.90
4	4	77	THR	N-CA-CB	-5.34	102.67	110.47
4	4	91	TYR	N-CA-C	5.34	118.96	112.23
4	8	77	THR	N-CA-CB	-5.34	102.67	110.47
1	A	649	VAL	CA-C-N	5.34	131.74	121.54
1	A	649	VAL	C-N-CA	5.34	131.74	121.54
4	6	77	THR	N-CA-CB	-5.34	102.67	110.47
4	X	257	CYS	N-CA-CB	-5.34	105.32	110.39
4	6	237	GLU	N-CA-C	5.34	117.18	110.24
1	J	447	GLN	CB-CA-C	5.34	119.65	110.79
1	P	291	ILE	CB-CA-C	-5.34	105.05	112.04
4	5	77	THR	N-CA-CB	-5.33	102.68	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	4	332	PRO	CA-C-N	5.33	124.66	118.85
4	4	332	PRO	C-N-CA	5.33	124.66	118.85
4	X	79	TRP	CG-CD2-CE3	5.33	139.23	133.90
4	Y	257	CYS	N-CA-CB	-5.33	105.33	110.39
1	P	305	ILE	CB-CA-C	-5.33	103.88	111.34
4	4	251	GLY	O-C-N	5.33	129.63	122.70
4	Y	349	LEU	O-C-N	5.33	129.42	122.87
1	M	649	VAL	CA-C-N	5.33	131.71	121.54
1	M	649	VAL	C-N-CA	5.33	131.71	121.54
4	2	77	THR	N-CA-CB	-5.33	102.70	110.47
1	A	654	ARG	CA-C-N	5.32	127.41	120.28
1	A	654	ARG	C-N-CA	5.32	127.41	120.28
1	J	649	VAL	CA-C-N	5.32	131.71	121.54
1	J	649	VAL	C-N-CA	5.32	131.71	121.54
4	8	257	CYS	N-CA-CB	-5.32	105.33	110.39
4	X	332	PRO	CA-C-N	5.32	124.65	118.85
4	X	332	PRO	C-N-CA	5.32	124.65	118.85
4	Z	332	PRO	CA-C-N	5.32	124.65	118.85
4	Z	332	PRO	C-N-CA	5.32	124.65	118.85
1	A	592	ILE	N-CA-CB	-5.32	102.45	111.23
4	8	349	LEU	O-C-N	5.32	129.41	122.87
2	E	127	ARG	NE-CZ-NH2	5.32	123.98	119.20
2	N	129	THR	O-C-N	-5.32	115.20	121.32
4	8	251	GLY	O-C-N	5.32	129.61	122.70
4	V	91	TYR	N-CA-C	5.32	118.93	112.23
1	A	291	ILE	CB-CA-C	-5.32	105.08	112.04
1	J	601	ASP	CA-CB-CG	-5.32	107.28	112.60
4	6	251	GLY	O-C-N	5.32	129.61	122.70
1	D	654	ARG	CA-C-N	5.31	127.40	120.28
1	D	654	ARG	C-N-CA	5.31	127.40	120.28
4	1	79	TRP	CG-CD2-CE3	5.31	139.21	133.90
4	9	91	TYR	N-CA-C	5.31	118.92	112.23
4	W	349	LEU	O-C-N	5.31	129.40	122.87
4	1	349	LEU	O-C-N	5.31	129.40	122.87
4	9	77	THR	N-CA-CB	-5.31	102.72	110.47
4	9	349	LEU	O-C-N	5.31	129.40	122.87
4	5	91	TYR	N-CA-C	5.31	118.92	112.23
4	V	77	THR	N-CA-CB	-5.31	102.72	110.47
4	V	79	TRP	CG-CD2-CE3	5.31	139.21	133.90
1	J	632	GLY	N-CA-C	5.31	120.58	114.16
4	3	332	PRO	CA-C-N	5.31	124.63	118.85
4	3	332	PRO	C-N-CA	5.31	124.63	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	79	TRP	CG-CD2-CE3	5.31	139.21	133.90
4	2	332	PRO	CA-C-N	5.30	124.63	118.85
4	2	332	PRO	C-N-CA	5.30	124.63	118.85
4	Y	91	TYR	N-CA-C	5.30	118.91	112.23
4	Z	251	GLY	O-C-N	5.30	129.59	122.70
1	D	157	SER	O-C-N	5.30	127.82	122.09
4	X	77	THR	N-CA-CB	-5.30	102.73	110.47
1	P	649	VAL	CA-C-N	5.30	131.66	121.54
1	P	649	VAL	C-N-CA	5.30	131.66	121.54
4	2	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
4	Z	91	TYR	N-CA-C	5.30	118.91	112.23
4	3	77	THR	N-CA-CB	-5.30	102.73	110.47
4	7	62	ARG	CA-CB-CG	5.30	124.70	114.10
4	X	91	TYR	N-CA-C	5.30	118.90	112.23
4	1	77	THR	N-CA-CB	-5.29	102.74	110.47
2	H	129	THR	N-CA-CB	5.29	119.79	110.37
1	M	592	ILE	N-CA-CB	-5.29	102.50	111.23
4	7	77	THR	N-CA-CB	-5.29	102.74	110.47
1	M	772	LEU	N-CA-C	-5.29	104.98	111.75
4	2	349	LEU	O-C-N	5.29	129.38	122.87
4	3	251	GLY	O-C-N	5.29	129.58	122.70
4	Y	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
4	7	101	HIS	CA-C-O	-5.29	114.78	119.86
1	P	592	ILE	N-CA-CB	-5.29	102.50	111.23
4	1	332	PRO	CA-C-N	5.29	124.61	118.85
4	1	332	PRO	C-N-CA	5.29	124.61	118.85
4	2	251	GLY	O-C-N	5.29	129.58	122.70
4	W	332	PRO	CA-C-N	5.29	124.61	118.85
4	W	332	PRO	C-N-CA	5.29	124.61	118.85
4	Y	251	GLY	O-C-N	5.29	129.58	122.70
4	Z	77	THR	N-CA-CB	-5.29	102.75	110.47
4	Z	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
1	A	447	GLN	CB-CA-C	5.29	119.57	110.79
4	2	257	CYS	N-CA-CB	-5.29	105.37	110.39
4	7	332	PRO	CA-C-N	5.29	124.61	118.85
4	7	332	PRO	C-N-CA	5.29	124.61	118.85
4	8	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
4	7	349	LEU	O-C-N	5.28	129.37	122.87
4	9	62	ARG	CA-CB-CG	5.28	124.67	114.10
4	9	251	GLY	O-C-N	5.28	129.57	122.70
4	W	251	GLY	O-C-N	5.28	129.57	122.70
4	9	356	TRP	CE2-CD2-CG	-5.28	100.86	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	329	GLU	CA-C-O	5.28	126.02	120.42
4	V	251	GLY	O-C-N	5.28	129.56	122.70
4	Z	349	LEU	O-C-N	5.28	129.36	122.87
1	P	772	LEU	N-CA-C	-5.28	105.00	111.75
4	W	77	THR	N-CA-CB	-5.28	102.77	110.47
2	E	129	THR	O-C-N	-5.27	115.25	121.32
1	J	669	PRO	N-CA-CB	5.27	108.02	103.27
4	5	251	GLY	O-C-N	5.27	129.56	122.70
2	Q	129	THR	O-C-N	-5.27	115.26	121.32
4	7	91	TYR	N-CA-C	5.27	118.87	112.23
1	D	772	LEU	N-CA-C	-5.27	105.01	111.75
4	2	91	TYR	N-CA-C	5.27	118.87	112.23
4	5	332	PRO	CA-C-N	5.27	124.59	118.85
4	5	332	PRO	C-N-CA	5.27	124.59	118.85
4	6	332	PRO	CA-C-N	5.27	124.59	118.85
4	6	332	PRO	C-N-CA	5.27	124.59	118.85
1	D	720	PHE	CA-CB-CG	-5.27	108.53	113.80
3	F	63	ILE	CG1-CB-CG2	-5.27	94.90	110.70
3	I	63	ILE	CG1-CB-CG2	-5.27	94.90	110.70
1	J	592	ILE	N-CA-CB	-5.27	102.54	111.23
4	X	62	ARG	CA-CB-CG	5.27	124.63	114.10
1	A	601	ASP	CA-CB-CG	-5.27	107.33	112.60
4	2	62	ARG	CA-CB-CG	5.26	124.63	114.10
4	7	356	TRP	CE2-CD2-CG	-5.26	100.88	107.20
4	X	251	GLY	O-C-N	5.26	129.54	122.70
1	P	601	ASP	CA-CB-CG	-5.26	107.34	112.60
4	V	62	ARG	CA-CB-CG	5.26	124.62	114.10
4	V	349	LEU	O-C-N	5.26	129.34	122.87
1	P	267	THR	OG1-CB-CG2	5.26	119.82	109.30
4	V	332	PRO	CA-C-N	5.26	124.58	118.85
4	V	332	PRO	C-N-CA	5.26	124.58	118.85
4	Y	77	THR	N-CA-CB	-5.26	102.79	110.47
4	W	62	ARG	CA-CB-CG	5.26	124.62	114.10
4	Y	62	ARG	CA-CB-CG	5.26	124.62	114.10
4	Y	332	PRO	CA-C-N	5.26	124.58	118.85
4	Y	332	PRO	C-N-CA	5.26	124.58	118.85
4	1	62	ARG	CA-CB-CG	5.26	124.61	114.10
4	6	91	TYR	N-CA-C	5.26	118.85	112.23
4	9	332	PRO	CA-C-N	5.26	124.58	118.85
4	9	332	PRO	C-N-CA	5.26	124.58	118.85
1	J	267	THR	OG1-CB-CG2	5.25	119.81	109.30
4	1	251	GLY	O-C-N	5.25	129.53	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	62	ARG	CA-CB-CG	5.25	124.60	114.10
4	V	252	ASN	CB-CG-ND2	5.25	124.28	116.40
3	L	63	ILE	CG1-CB-CG2	-5.25	94.96	110.70
4	3	91	TYR	N-CA-C	5.25	118.84	112.23
4	4	356	TRP	CE2-CD2-CG	-5.25	100.90	107.20
4	5	62	ARG	CA-CB-CG	5.25	124.59	114.10
4	7	40	HIS	CB-CG-CD2	-5.25	124.38	131.20
4	8	62	ARG	CA-CB-CG	5.25	124.60	114.10
4	8	91	TYR	N-CA-C	5.25	118.84	112.23
3	O	63	ILE	CG1-CB-CG2	-5.25	94.96	110.70
4	6	62	ARG	CA-CB-CG	5.25	124.59	114.10
4	8	252	ASN	CB-CG-ND2	5.25	124.27	116.40
1	A	720	PHE	CA-CB-CG	-5.24	108.56	113.80
4	4	62	ARG	CA-CB-CG	5.24	124.58	114.10
1	G	592	ILE	N-CA-CB	-5.24	102.58	111.23
1	P	329	GLU	CA-C-O	5.24	125.97	120.42
1	G	720	PHE	CA-CB-CG	-5.24	108.56	113.80
1	P	669	PRO	N-CA-CB	5.24	107.98	103.27
4	2	356	TRP	CE2-CD2-CG	-5.24	100.91	107.20
1	A	772	LEU	N-CA-C	-5.24	105.05	111.75
1	G	329	GLU	CA-C-O	5.24	125.97	120.42
4	X	356	TRP	CE2-CD2-CG	-5.24	100.92	107.20
4	Y	356	TRP	CE2-CD2-CG	-5.24	100.92	107.20
1	A	663	ASN	N-CA-C	-5.23	105.75	111.82
4	7	79	TRP	CG-CD2-CE3	5.23	139.13	133.90
4	2	101	HIS	CA-C-O	-5.23	114.84	119.86
4	3	252	ASN	CB-CG-ND2	5.23	124.25	116.40
4	Z	62	ARG	CA-CB-CG	5.23	124.56	114.10
4	8	332	PRO	CA-C-N	5.23	124.55	118.85
4	8	332	PRO	C-N-CA	5.23	124.55	118.85
1	G	401	LEU	CD1-CG-CD2	-5.23	99.30	110.80
2	H	129	THR	O-C-N	-5.23	115.31	121.32
1	G	663	ASN	N-CA-C	-5.22	105.76	111.82
4	V	101	HIS	CA-C-O	-5.22	114.84	119.86
1	D	267	THR	OG1-CB-CG2	5.22	119.75	109.30
1	G	267	THR	OG1-CB-CG2	5.22	119.75	109.30
1	P	654	ARG	CA-C-N	5.22	127.28	120.28
1	P	654	ARG	C-N-CA	5.22	127.28	120.28
4	5	252	ASN	CB-CG-ND2	5.22	124.23	116.40
4	6	252	ASN	CB-CG-ND2	5.22	124.23	116.40
4	W	79	TRP	CG-CD2-CE3	5.22	139.12	133.90
4	Y	252	ASN	CB-CG-ND2	5.22	124.23	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	127	ARG	NE-CZ-NH2	5.22	123.90	119.20
4	4	79	TRP	CG-CD2-CE3	5.22	139.12	133.90
4	2	252	ASN	CB-CG-ND2	5.22	124.23	116.40
4	8	22	ALA	N-CA-C	-5.22	102.32	110.10
1	M	601	ASP	CA-CB-CG	-5.22	107.38	112.60
4	1	22	ALA	N-CA-C	-5.22	102.33	110.10
1	J	329	GLU	CA-C-O	5.22	125.95	120.42
1	J	564	ASN	CA-CB-CG	-5.22	107.38	112.60
4	3	79	TRP	CG-CD2-CE3	5.22	139.12	133.90
4	5	40	HIS	CB-CG-CD2	-5.22	124.42	131.20
4	6	356	TRP	CE2-CD2-CG	-5.22	100.94	107.20
1	G	654	ARG	CA-C-N	5.21	127.27	120.28
1	G	654	ARG	C-N-CA	5.21	127.27	120.28
1	P	720	PHE	CA-CB-CG	-5.21	108.59	113.80
1	D	601	ASP	CA-CB-CG	-5.21	107.39	112.60
1	M	564	ASN	CA-CB-CG	-5.21	107.39	112.60
4	6	79	TRP	CG-CD2-CE3	5.21	139.11	133.90
4	V	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
3	R	63	ILE	CG1-CB-CG2	-5.21	95.07	110.70
4	1	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
4	Z	101	HIS	CA-C-O	-5.21	114.86	119.86
1	J	720	PHE	CA-CB-CG	-5.21	108.59	113.80
1	M	720	PHE	CA-CB-CG	-5.21	108.59	113.80
4	3	22	ALA	N-CA-C	-5.21	102.34	110.10
4	W	101	HIS	CA-C-O	-5.21	114.86	119.86
4	X	101	HIS	CA-C-O	-5.21	114.86	119.86
4	9	252	ASN	CB-CG-ND2	5.21	124.21	116.40
1	A	267	THR	OG1-CB-CG2	5.20	119.70	109.30
1	D	564	ASN	CA-CB-CG	-5.20	107.40	112.60
1	J	772	LEU	N-CA-C	-5.20	105.09	111.75
4	5	356	TRP	CE2-CD2-CG	-5.20	100.96	107.20
4	V	22	ALA	N-CA-C	-5.20	102.36	110.10
4	X	252	ASN	CB-CG-ND2	5.20	124.20	116.40
1	M	329	GLU	CA-C-O	5.20	125.93	120.42
4	7	252	ASN	CB-CG-ND2	5.20	124.19	116.40
4	W	252	ASN	CB-CG-ND2	5.20	124.19	116.40
4	Y	274	ILE	N-CA-CB	-5.20	102.66	111.23
1	D	401	LEU	CD1-CG-CD2	-5.20	99.37	110.80
1	J	654	ARG	CA-C-N	5.20	127.24	120.28
1	J	654	ARG	C-N-CA	5.20	127.24	120.28
4	3	101	HIS	CA-C-O	-5.20	114.87	119.86
2	K	127	ARG	NE-CZ-NH2	5.19	123.88	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	157	SER	O-C-N	5.19	127.70	122.09
4	1	248	ILE	N-CA-CB	-5.19	103.39	110.56
4	3	356	TRP	CE2-CD2-CG	-5.19	100.97	107.20
1	J	401	LEU	CD1-CG-CD2	-5.19	99.38	110.80
1	M	401	LEU	CD1-CG-CD2	-5.19	99.38	110.80
4	4	22	ALA	N-CA-C	-5.19	102.36	110.10
4	4	248	ILE	N-CA-CB	-5.19	103.39	110.56
4	8	356	TRP	CE2-CD2-CG	-5.19	100.97	107.20
4	9	274	ILE	N-CA-CB	-5.19	102.66	111.23
1	D	592	ILE	N-CA-CB	-5.19	102.67	111.23
4	6	34	ILE	CA-CB-CG1	5.19	119.22	110.40
1	A	401	LEU	CD1-CG-CD2	-5.19	99.38	110.80
4	6	274	ILE	N-CA-CB	-5.19	102.67	111.23
4	7	274	ILE	N-CA-CB	-5.19	102.67	111.23
4	Z	40	HIS	CB-CG-CD2	-5.19	124.45	131.20
1	D	663	ASN	N-CA-C	-5.19	105.80	111.82
2	E	129	THR	N-CA-CB	5.19	119.61	110.37
4	2	22	ALA	N-CA-C	-5.19	102.37	110.10
4	Z	252	ASN	CB-CG-ND2	5.19	124.18	116.40
4	Z	274	ILE	N-CA-CB	-5.19	102.67	111.23
2	Q	127	ARG	NE-CZ-NH2	5.19	123.87	119.20
4	1	40	HIS	CB-CG-CD2	-5.19	124.46	131.20
4	W	356	TRP	CE2-CD2-CG	-5.19	100.98	107.20
1	M	267	THR	OG1-CB-CG2	5.18	119.67	109.30
4	4	252	ASN	CB-CG-ND2	5.18	124.18	116.40
1	M	576	GLU	N-CA-CB	5.18	119.06	110.97
4	2	274	ILE	N-CA-CB	-5.18	102.68	111.23
4	1	252	ASN	CB-CG-ND2	5.18	124.17	116.40
4	Z	34	ILE	CA-CB-CG1	5.18	119.21	110.40
1	P	401	LEU	CD1-CG-CD2	-5.18	99.41	110.80
2	Q	129	THR	N-CA-CB	5.18	119.59	110.37
1	P	564	ASN	CA-CB-CG	-5.18	107.42	112.60
4	3	50	LYS	CB-CG-CD	-5.18	99.39	111.30
4	5	50	LYS	CB-CG-CD	-5.18	99.39	111.30
4	7	71	ILE	N-CA-CB	-5.18	105.88	112.15
4	X	71	ILE	N-CA-CB	-5.18	105.88	112.15
1	G	564	ASN	CA-CB-CG	-5.18	107.42	112.60
4	5	22	ALA	N-CA-C	-5.18	102.39	110.10
4	Y	34	ILE	CA-CB-CG1	5.18	119.20	110.40
1	G	38	VAL	N-CA-CB	-5.17	102.69	111.23
4	6	101	HIS	CA-C-O	-5.17	114.89	119.86
4	W	274	ILE	N-CA-CB	-5.17	102.69	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	356	TRP	CE2-CD2-CG	-5.17	100.99	107.20
1	G	652	LEU	CB-CA-C	-5.17	102.33	110.86
1	P	38	VAL	N-CA-CB	-5.17	102.70	111.23
4	V	227	MET	N-CA-C	-5.17	105.56	111.14
1	G	669	PRO	N-CA-CB	5.17	107.92	103.27
4	4	50	LYS	CB-CG-CD	-5.17	99.41	111.30
4	8	101	HIS	CA-C-O	-5.17	114.90	119.86
2	N	129	THR	N-CA-CB	5.17	119.57	110.37
4	1	71	ILE	N-CA-CB	-5.17	105.90	112.15
4	6	40	HIS	CB-CG-CD2	-5.17	124.48	131.20
4	7	34	ILE	CA-CB-CG1	5.17	119.19	110.40
4	V	50	LYS	CB-CG-CD	-5.17	99.41	111.30
2	K	129	THR	N-CA-CB	5.17	119.57	110.37
1	M	663	ASN	N-CA-C	-5.17	105.83	111.82
4	W	22	ALA	N-CA-C	-5.17	102.40	110.10
4	1	101	HIS	CA-C-O	-5.17	114.90	119.86
1	A	564	ASN	CA-CB-CG	-5.16	107.44	112.60
1	D	254	PHE	CA-CB-CG	-5.16	108.64	113.80
4	6	22	ALA	N-CA-C	-5.16	102.41	110.10
4	8	274	ILE	N-CA-CB	-5.16	102.71	111.23
4	Z	22	ALA	N-CA-C	-5.16	102.41	110.10
4	7	50	LYS	CB-CG-CD	-5.16	99.43	111.30
4	3	71	ILE	N-CA-CB	-5.16	105.91	112.15
4	3	274	ILE	N-CA-CB	-5.16	102.72	111.23
4	9	40	HIS	CB-CG-CD2	-5.16	124.49	131.20
4	Y	50	LYS	CB-CG-CD	-5.16	99.43	111.30
4	1	274	ILE	N-CA-CB	-5.16	102.72	111.23
4	5	34	ILE	CA-CB-CG1	5.16	119.17	110.40
4	V	274	ILE	N-CA-CB	-5.16	102.72	111.23
4	Y	71	ILE	N-CA-CB	-5.16	105.91	112.15
4	9	101	HIS	CA-C-O	-5.16	114.91	119.86
4	Z	233	SER	O-C-N	5.16	129.45	122.59
1	A	623	PHE	CB-CG-CD1	5.16	129.46	120.70
1	A	669	PRO	N-CA-CB	5.16	107.91	103.27
2	N	127	ARG	NE-CZ-NH2	5.16	123.84	119.20
1	P	157	SER	O-C-N	5.16	127.66	122.09
4	1	50	LYS	CB-CG-CD	-5.16	99.44	111.30
4	4	40	HIS	CB-CG-CD2	-5.16	124.50	131.20
4	Z	71	ILE	N-CA-CB	-5.16	105.91	112.15
1	A	38	VAL	N-CA-CB	-5.15	102.73	111.23
4	4	34	ILE	CA-CB-CG1	5.15	119.16	110.40
4	8	50	LYS	CB-CG-CD	-5.15	99.45	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	34	ILE	CA-CB-CG1	5.15	119.16	110.40
4	Y	22	ALA	N-CA-C	-5.15	102.42	110.10
4	8	71	ILE	N-CA-CB	-5.15	105.92	112.15
4	Z	50	LYS	CB-CG-CD	-5.15	99.45	111.30
1	D	38	VAL	N-CA-CB	-5.15	102.73	111.23
4	1	34	ILE	CA-CB-CG1	5.15	119.16	110.40
4	6	71	ILE	N-CA-CB	-5.15	105.92	112.15
4	7	22	ALA	N-CA-C	-5.15	102.42	110.10
4	X	50	LYS	CB-CG-CD	-5.15	99.46	111.30
1	M	38	VAL	N-CA-CB	-5.15	102.73	111.23
4	W	34	ILE	CA-CB-CG1	5.15	119.15	110.40
4	2	50	LYS	CB-CG-CD	-5.15	99.46	111.30
4	W	40	HIS	CB-CG-CD2	-5.15	124.51	131.20
4	W	50	LYS	CB-CG-CD	-5.15	99.47	111.30
4	X	40	HIS	CB-CG-CD2	-5.15	124.51	131.20
1	M	654	ARG	CA-C-N	5.14	127.17	120.28
1	M	654	ARG	C-N-CA	5.14	127.17	120.28
4	9	34	ILE	CA-CB-CG1	5.14	119.15	110.40
4	5	149	THR	CA-CB-OG1	-5.14	101.89	109.60
4	Y	248	ILE	N-CA-CB	-5.14	103.46	110.56
4	5	71	ILE	N-CA-CB	-5.14	105.93	112.15
1	J	663	ASN	N-CA-C	-5.14	105.86	111.82
4	3	248	ILE	N-CA-CB	-5.14	103.47	110.56
4	4	71	ILE	N-CA-CB	-5.14	105.93	112.15
4	X	22	ALA	N-CA-C	-5.14	102.44	110.10
1	A	157	SER	O-C-N	5.14	127.64	122.09
1	G	254	PHE	CA-CB-CG	-5.14	108.66	113.80
1	G	332	MET	CB-CA-C	-5.14	102.12	110.85
1	A	576	GLU	N-CA-CB	5.14	118.98	110.97
4	6	50	LYS	CB-CG-CD	-5.14	99.48	111.30
4	8	34	ILE	CA-CB-CG1	5.14	119.13	110.40
4	8	40	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	D	595	TRP	O-C-N	5.13	127.43	122.09
1	P	576	GLU	N-CA-CB	5.13	118.98	110.97
4	5	248	ILE	N-CA-CB	-5.13	103.47	110.56
4	9	248	ILE	N-CA-CB	-5.13	103.47	110.56
4	9	360	GLN	CB-CG-CD	5.13	121.33	112.60
4	V	40	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	P	623	PHE	CB-CG-CD1	5.13	129.43	120.70
4	2	34	ILE	CA-CB-CG1	5.13	119.13	110.40
4	3	40	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	D	576	GLU	N-CA-CB	5.13	118.97	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	157	SER	O-C-N	5.13	127.63	122.09
1	P	663	ASN	N-CA-C	-5.13	105.87	111.82
4	3	360	GLN	CB-CG-CD	5.13	121.32	112.60
4	5	274	ILE	N-CA-CB	-5.13	102.77	111.23
4	V	71	ILE	N-CA-CB	-5.13	105.95	112.15
4	V	360	GLN	CB-CG-CD	5.13	121.32	112.60
1	J	576	GLU	N-CA-CB	5.13	118.97	110.97
1	M	322	VAL	O-C-N	5.13	125.61	120.59
4	2	217	CYS	CA-CB-SG	-5.13	102.61	114.40
4	X	274	ILE	N-CA-CB	-5.13	102.77	111.23
1	P	652	LEU	CB-CA-C	-5.12	102.40	110.86
4	1	360	GLN	CB-CG-CD	5.12	121.31	112.60
4	4	274	ILE	N-CA-CB	-5.12	102.78	111.23
4	7	371	HIS	CB-CG-CD2	-5.12	124.54	131.20
4	8	360	GLN	CB-CG-CD	5.12	121.31	112.60
1	J	38	VAL	N-CA-CB	-5.12	102.78	111.23
1	J	623	PHE	CB-CG-CD1	5.12	129.41	120.70
4	5	233	SER	O-C-N	5.12	129.40	122.59
4	W	71	ILE	N-CA-CB	-5.12	105.95	112.15
4	X	248	ILE	N-CA-CB	-5.12	103.49	110.56
4	X	360	GLN	CB-CG-CD	5.12	121.31	112.60
1	G	601	ASP	CA-CB-CG	-5.12	107.48	112.60
4	7	360	GLN	CB-CG-CD	5.12	121.30	112.60
4	1	149	THR	CA-CB-OG1	-5.12	101.92	109.60
4	8	248	ILE	N-CA-CB	-5.12	103.50	110.56
4	9	22	ALA	N-CA-C	-5.12	102.47	110.10
4	9	50	LYS	CB-CG-CD	-5.12	99.53	111.30
1	A	694	GLN	CA-C-O	5.12	126.16	120.63
1	G	623	PHE	CB-CG-CD1	5.12	129.40	120.70
1	M	623	PHE	CB-CG-CD1	5.12	129.40	120.70
1	A	652	LEU	CB-CA-C	-5.12	102.42	110.86
1	P	172	ASN	N-CA-CB	5.12	118.22	110.45
4	1	217	CYS	CA-CB-SG	-5.12	102.64	114.40
4	3	233	SER	O-C-N	5.12	129.39	122.59
4	4	360	GLN	CB-CG-CD	5.12	121.30	112.60
4	6	360	GLN	CB-CG-CD	5.12	121.30	112.60
4	9	233	SER	O-C-N	5.12	129.39	122.59
4	W	360	GLN	CB-CG-CD	5.12	121.30	112.60
4	2	149	THR	CA-CB-OG1	-5.11	101.93	109.60
4	7	217	CYS	CA-CB-SG	-5.11	102.64	114.40
4	3	34	ILE	CA-CB-CG1	5.11	119.09	110.40
4	8	371	HIS	CB-CG-CD2	-5.11	124.56	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	248	ILE	N-CA-CB	-5.11	103.51	110.56
4	Z	149	THR	CA-CB-OG1	-5.11	101.94	109.60
1	G	172	ASN	N-CA-CB	5.11	118.21	110.45
4	2	40	HIS	CB-CG-CD2	-5.11	124.56	131.20
4	9	227	MET	N-CA-C	-5.11	105.62	111.14
4	V	34	ILE	CA-CB-CG1	5.11	119.08	110.40
4	Y	40	HIS	CB-CG-CD2	-5.11	124.56	131.20
4	Y	360	GLN	CB-CG-CD	5.11	121.28	112.60
4	6	248	ILE	N-CA-CB	-5.11	103.51	110.56
4	W	248	ILE	N-CA-CB	-5.10	103.52	110.56
1	M	652	LEU	CB-CA-C	-5.10	102.44	110.86
4	8	217	CYS	CA-CB-SG	-5.10	102.66	114.40
1	J	157	SER	O-C-N	5.10	127.60	122.09
4	2	227	MET	N-CA-C	-5.10	105.63	111.14
4	W	217	CYS	CA-CB-SG	-5.10	102.67	114.40
1	D	669	PRO	N-CA-CB	5.10	107.86	103.27
1	P	278	GLN	CA-C-O	5.10	127.80	120.51
4	2	71	ILE	N-CA-CB	-5.10	105.98	112.15
4	V	248	ILE	N-CA-CB	-5.10	103.52	110.56
1	A	172	ASN	N-CA-CB	5.10	118.20	110.45
4	2	248	ILE	N-CA-CB	-5.10	103.53	110.56
4	8	149	THR	CA-CB-OG1	-5.10	101.95	109.60
4	W	149	THR	CA-CB-OG1	-5.10	101.95	109.60
4	9	217	CYS	CA-CB-SG	-5.10	102.68	114.40
4	3	149	THR	CA-CB-OG1	-5.09	101.96	109.60
4	7	248	ILE	N-CA-CB	-5.09	103.53	110.56
4	V	217	CYS	CA-CB-SG	-5.09	102.68	114.40
1	P	424	ASN	CA-CB-CG	5.09	117.69	112.60
4	1	233	SER	O-C-N	5.09	129.36	122.59
4	X	149	THR	CA-CB-OG1	-5.09	101.96	109.60
1	J	332	MET	CB-CA-C	-5.09	102.19	110.85
1	J	652	LEU	CB-CA-C	-5.09	102.46	110.86
4	5	360	GLN	CB-CG-CD	5.09	121.26	112.60
4	6	371	HIS	CB-CG-CD2	-5.09	124.58	131.20
4	8	266	PHE	CA-CB-CG	5.09	118.89	113.80
4	Z	360	GLN	CB-CG-CD	5.09	121.25	112.60
1	J	172	ASN	N-CA-CB	5.09	118.19	110.45
1	P	621	LEU	N-CA-C	5.09	116.52	110.97
4	6	233	SER	O-C-N	5.09	129.36	122.59
4	X	217	CYS	CA-CB-SG	-5.09	102.69	114.40
4	Y	217	CYS	CA-CB-SG	-5.09	102.69	114.40
1	J	694	GLN	CA-C-O	5.09	126.12	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Y	227	MET	N-CA-C	-5.09	105.64	111.14
4	9	266	PHE	CA-CB-CG	5.09	118.89	113.80
4	X	233	SER	O-C-N	5.09	129.35	122.59
4	4	149	THR	CA-CB-OG1	-5.08	101.97	109.60
4	6	149	THR	CA-CB-OG1	-5.08	101.97	109.60
4	6	217	CYS	CA-CB-SG	-5.08	102.71	114.40
1	A	221	GLN	O-C-N	5.08	127.37	122.09
1	A	332	MET	CG-SD-CE	-5.08	89.72	100.90
1	D	332	MET	CG-SD-CE	-5.08	89.72	100.90
4	3	217	CYS	CA-CB-SG	-5.08	102.71	114.40
4	9	149	THR	CA-CB-OG1	-5.08	101.98	109.60
1	J	322	VAL	O-C-N	5.08	125.57	120.59
4	5	217	CYS	CA-CB-SG	-5.08	102.72	114.40
1	G	576	GLU	N-CA-CB	5.08	118.89	110.97
4	7	233	SER	O-C-N	5.08	129.34	122.59
4	Z	217	CYS	CA-CB-SG	-5.08	102.72	114.40
4	2	360	GLN	CB-CG-CD	5.08	121.23	112.60
4	V	149	THR	CA-CB-OG1	-5.08	101.98	109.60
4	Y	149	THR	CA-CB-OG1	-5.08	101.99	109.60
1	A	322	VAL	O-C-N	5.07	125.56	120.59
1	A	424	ASN	CA-CB-CG	5.07	117.67	112.60
1	M	278	GLN	CA-C-O	5.07	127.77	120.51
4	5	371	HIS	CB-CG-CD2	-5.07	124.60	131.20
4	9	71	ILE	N-CA-CB	-5.07	106.01	112.15
4	X	227	MET	N-CA-C	-5.07	105.66	111.14
4	1	266	PHE	CA-CB-CG	5.07	118.87	113.80
4	4	217	CYS	CA-CB-SG	-5.07	102.74	114.40
4	7	227	MET	N-CA-C	-5.07	105.67	111.14
4	Y	233	SER	O-C-N	5.07	129.33	122.59
1	D	652	LEU	CB-CA-C	-5.07	102.50	110.86
1	A	76	GLN	CA-C-O	5.07	125.16	119.18
4	5	227	MET	N-CA-C	-5.07	105.67	111.14
4	8	233	SER	O-C-N	5.07	129.33	122.59
1	G	165	PHE	CA-CB-CG	-5.06	108.74	113.80
4	3	227	MET	N-CA-C	-5.06	105.67	111.14
4	6	227	MET	N-CA-C	-5.06	105.67	111.14
4	8	227	MET	N-CA-C	-5.06	105.67	111.14
4	1	371	HIS	CB-CG-CD2	-5.06	124.62	131.20
1	P	76	GLN	CA-C-O	5.06	125.15	119.18
1	J	332	MET	CG-SD-CE	-5.06	89.77	100.90
1	M	332	MET	CG-SD-CE	-5.06	89.77	100.90
1	P	332	MET	CB-CA-C	-5.06	102.25	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	6	88	HIS	CB-CG-CD2	-5.06	124.62	131.20
4	7	149	THR	CA-CB-OG1	-5.06	102.01	109.60
4	4	359	LYS	CB-CG-CD	5.06	122.93	111.30
4	9	371	HIS	CB-CG-CD2	-5.06	124.63	131.20
4	V	371	HIS	CB-CG-CD2	-5.06	124.63	131.20
1	D	425	SER	N-CA-CB	5.05	117.64	110.16
1	G	322	VAL	O-C-N	5.05	125.54	120.59
1	M	172	ASN	N-CA-CB	5.05	118.13	110.45
4	4	233	SER	O-C-N	5.05	129.31	122.59
3	F	64	THR	O-C-N	5.05	129.43	123.27
1	G	332	MET	CG-SD-CE	-5.05	89.79	100.90
1	G	762	HIS	N-CA-C	5.05	121.56	110.80
4	V	359	LYS	CB-CG-CD	5.05	122.92	111.30
1	G	621	LEU	N-CA-C	5.05	116.47	110.97
1	M	424	ASN	CA-CB-CG	5.05	117.65	112.60
1	M	425	SER	N-CA-CB	5.05	117.64	110.16
1	P	332	MET	CG-SD-CE	-5.05	89.79	100.90
1	D	172	ASN	N-CA-CB	5.05	118.12	110.45
4	7	359	LYS	CB-CG-CD	5.05	122.91	111.30
1	A	161	ASN	CA-CB-CG	-5.05	107.55	112.60
4	8	43	VAL	N-CA-C	5.05	117.28	108.90
4	W	233	SER	O-C-N	5.05	129.30	122.59
1	J	165	PHE	CA-CB-CG	-5.04	108.76	113.80
1	M	621	LEU	N-CA-C	5.04	116.47	110.97
4	3	371	HIS	CB-CG-CD2	-5.04	124.64	131.20
4	Z	227	MET	N-CA-C	-5.04	105.69	111.14
1	G	686	MET	N-CA-C	5.04	116.80	108.13
1	P	425	SER	N-CA-CB	5.04	117.62	110.16
1	P	694	GLN	CA-C-O	5.04	126.08	120.63
1	J	424	ASN	CA-CB-CG	5.04	117.64	112.60
4	W	359	LYS	CB-CG-CD	5.04	122.89	111.30
1	D	278	GLN	CA-C-O	5.04	127.71	120.51
4	W	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	G	513	ILE	N-CA-CB	-5.04	101.67	110.49
1	J	278	GLN	CA-C-O	5.04	127.71	120.51
4	6	266	PHE	CA-CB-CG	5.04	118.84	113.80
4	2	233	SER	O-C-N	5.04	129.29	122.59
4	2	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
4	8	359	LYS	CB-CG-CD	5.04	122.88	111.30
4	9	359	LYS	CB-CG-CD	5.04	122.88	111.30
4	X	371	HIS	CB-CG-CD2	-5.04	124.66	131.20
4	Y	359	LYS	CB-CG-CD	5.04	122.88	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
4	Y	310	ALA	CA-C-O	-5.03	115.52	120.70
1	J	425	SER	N-CA-CB	5.03	117.61	110.16
4	V	233	SER	O-C-N	5.03	129.28	122.59
1	M	254	PHE	CA-CB-CG	-5.03	108.77	113.80
4	1	359	LYS	CB-CG-CD	5.03	122.87	111.30
4	6	359	LYS	CB-CG-CD	5.03	122.87	111.30
1	P	322	VAL	O-C-N	5.03	125.52	120.59
1	D	675	ILE	N-CA-C	5.03	116.59	108.85
4	2	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	W	266	PHE	CA-CB-CG	5.03	118.83	113.80
4	X	359	LYS	CB-CG-CD	5.03	122.86	111.30
1	D	332	MET	CB-CA-C	-5.02	102.31	110.85
1	P	165	PHE	CA-CB-CG	-5.02	108.78	113.80
4	5	359	LYS	CB-CG-CD	5.02	122.86	111.30
1	M	332	MET	CB-CA-C	-5.02	102.31	110.85
1	A	254	PHE	CA-CB-CG	-5.02	108.78	113.80
1	G	424	ASN	CA-CB-CG	5.02	117.62	112.60
1	M	694	GLN	CA-C-O	5.02	126.05	120.63
4	3	359	LYS	CB-CG-CD	5.02	122.85	111.30
4	4	371	HIS	CB-CG-CD2	-5.02	124.68	131.20
4	7	266	PHE	CA-CB-CG	5.02	118.82	113.80
4	Z	359	LYS	CB-CG-CD	5.02	122.84	111.30
1	G	221	GLN	O-C-N	5.02	127.31	122.09
4	5	266	PHE	CA-CB-CG	5.02	118.82	113.80
1	J	254	PHE	CA-CB-CG	-5.01	108.79	113.80
4	1	88	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	A	165	PHE	CA-CB-CG	-5.01	108.79	113.80
4	3	365	ALA	N-CA-C	5.01	120.24	113.72
4	4	43	VAL	N-CA-C	5.01	117.22	108.90
1	A	513	ILE	N-CA-CB	-5.01	101.72	110.49
1	D	694	GLN	CA-C-O	5.01	126.04	120.63
3	L	64	THR	O-C-N	5.01	129.40	123.24
4	2	43	VAL	N-CA-C	5.01	117.22	108.90
4	2	266	PHE	CA-CB-CG	5.01	118.81	113.80
4	V	349	LEU	CA-C-O	5.01	126.70	121.19
4	Z	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	D	76	GLN	CA-C-O	5.01	125.09	119.18
4	5	365	ALA	N-CA-C	5.01	120.23	113.72
4	7	349	LEU	CA-C-O	5.01	126.70	121.19
4	Y	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
4	8	281	SER	N-CA-C	-5.01	105.71	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	W	43	VAL	N-CA-C	5.01	117.21	108.90
1	A	829	TRP	N-CA-C	5.01	116.83	109.42
1	M	434	TYR	CB-CA-C	-5.01	102.80	110.81
4	7	142	LEU	CA-C-O	5.01	126.08	120.82
4	Y	371	HIS	CB-CG-CD2	-5.01	124.69	131.20
4	1	227	MET	N-CA-C	-5.00	105.73	111.14
4	6	356	TRP	CG-CD2-CE3	5.00	138.91	133.90
4	9	356	TRP	CG-CD2-CE3	5.00	138.91	133.90
4	V	290	ARG	O-C-N	-5.00	116.36	122.22
1	D	623	PHE	CB-CG-CD1	5.00	129.21	120.70
1	G	829	TRP	N-CA-C	5.00	116.82	109.42
1	M	192	VAL	CA-CB-CG1	-5.00	101.89	110.40
1	D	513	ILE	N-CA-CB	-5.00	101.74	110.49
1	J	192	VAL	CA-CB-CG1	-5.00	101.90	110.40
4	7	356	TRP	CG-CD2-CE3	5.00	138.90	133.90
4	Z	266	PHE	CA-CB-CG	5.00	118.80	113.80

All (7) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	648	THR	CB
1	D	648	THR	CB
1	G	75	ASP	CA
1	G	648	THR	CB
1	J	648	THR	CB
1	M	648	THR	CB
1	P	648	THR	CB

All (72) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	1	62	ARG	Sidechain
4	2	62	ARG	Sidechain
4	3	62	ARG	Sidechain
4	4	62	ARG	Sidechain
4	5	62	ARG	Sidechain
4	6	62	ARG	Sidechain
4	7	62	ARG	Sidechain
4	8	62	ARG	Sidechain
4	9	62	ARG	Sidechain
1	A	623	PHE	Sidechain
1	A	637	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	A	649	VAL	Mainchain
1	A	98	HIS	Mainchain
1	D	623	PHE	Sidechain
1	D	637	LYS	Mainchain
1	D	649	VAL	Mainchain
1	D	98	HIS	Mainchain
2	E	150	TYR	Sidechain
2	E	155	TYR	Mainchain
2	E	22	THR	Mainchain
3	F	75	ALA	Mainchain
3	F	85	GLU	Mainchain
1	G	623	PHE	Sidechain
1	G	637	LYS	Mainchain
1	G	649	VAL	Mainchain
1	G	98	HIS	Mainchain
2	H	150	TYR	Sidechain
2	H	155	TYR	Mainchain
2	H	22	THR	Mainchain
3	I	75	ALA	Mainchain
3	I	85	GLU	Mainchain
1	J	623	PHE	Sidechain
1	J	637	LYS	Mainchain
1	J	649	VAL	Mainchain
1	J	709	LYS	Mainchain,Peptide
1	J	98	HIS	Mainchain
2	K	150	TYR	Sidechain
2	K	155	TYR	Mainchain
2	K	22	THR	Mainchain
3	L	75	ALA	Mainchain
3	L	85	GLU	Mainchain
1	M	623	PHE	Sidechain
1	M	637	LYS	Mainchain
1	M	649	VAL	Mainchain
1	M	785	GLU	Mainchain,Peptide
1	M	806	MET	Mainchain
1	M	98	HIS	Mainchain
2	N	150	TYR	Sidechain
2	N	155	TYR	Mainchain
2	N	22	THR	Mainchain
3	O	75	ALA	Mainchain
3	O	85	GLU	Mainchain
1	P	623	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	P	637	LYS	Mainchain
1	P	649	VAL	Mainchain
1	P	785	GLU	Mainchain,Peptide
1	P	805	ALA	Mainchain,Peptide
1	P	98	HIS	Mainchain
2	Q	150	TYR	Sidechain
2	Q	155	TYR	Mainchain
2	Q	22	THR	Mainchain
3	R	75	ALA	Mainchain
3	R	85	GLU	Mainchain
4	V	62	ARG	Sidechain
4	W	62	ARG	Sidechain
4	X	62	ARG	Sidechain
4	Y	62	ARG	Sidechain
4	Z	62	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6797	0	6768	1331	0
1	D	6797	0	6766	1489	0
1	G	6797	0	6772	1578	0
1	J	6797	0	6770	1478	0
1	M	6797	0	6775	1484	0
1	P	6797	0	6774	1535	0
2	E	1127	0	1086	261	0
2	H	1127	0	1088	272	0
2	K	1127	0	1088	288	0
2	N	1127	0	1089	279	0
2	Q	1127	0	1089	281	0
3	F	1123	0	1084	186	0
3	I	1123	0	1082	211	0
3	L	1123	0	1082	167	0
3	O	1123	0	1084	192	0
3	R	1123	0	1083	208	0
4	1	2906	0	2856	428	0
4	2	2906	0	2861	257	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	3	2906	0	2863	175	0
4	4	2906	0	2863	184	0
4	5	2906	0	2865	97	0
4	6	2906	0	2865	99	0
4	7	2906	0	2866	83	0
4	8	2906	0	2857	317	0
4	9	2906	0	2855	355	0
4	V	2906	0	2851	384	0
4	W	2906	0	2851	400	0
4	X	2906	0	2862	214	0
4	Y	2906	0	2863	192	0
4	Z	2906	0	2853	432	0
All	All	92716	0	91511	11198	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 61.

All (11198) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:757:GLN:HB3	1:A:771:LEU:CD1	1.23	1.67
4:2:287:ILE:CG2	4:4:202:THR:HB	1.23	1.66
1:A:505:MLY:HB3	1:A:762:HIS:CD2	1.28	1.64
2:E:144:VAL:HG13	2:E:153:ILE:CG1	1.17	1.64
1:G:797:PHE:CE2	3:I:126:LEU:HD22	1.23	1.64
2:H:144:VAL:HG13	2:H:153:ILE:CD1	1.22	1.64
1:M:797:PHE:CZ	3:O:146:ILE:HD12	1.12	1.63
1:P:797:PHE:CZ	3:R:146:ILE:HD12	1.34	1.63
4:X:291:LYS:HE3	4:Z:243:PRO:CB	1.17	1.63
1:D:797:PHE:CD1	3:F:146:ILE:HG23	1.31	1.63
1:G:754:ASP:HA	1:G:779:ARG:CD	1.17	1.63
1:D:797:PHE:CE2	3:F:126:LEU:HD22	1.14	1.63
1:P:792:ALA:HB2	3:R:42:THR:CG2	1.15	1.62
4:2:203:THR:H	4:Z:287:ILE:CG1	1.10	1.62
2:E:144:VAL:HG13	2:E:153:ILE:CD1	1.22	1.61
1:M:797:PHE:CE2	3:O:126:LEU:HD22	1.27	1.61
1:P:797:PHE:CE2	3:R:126:LEU:HD22	1.36	1.61
1:P:725:ARG:CZ	3:R:85:GLU:HG3	1.31	1.61
1:J:797:PHE:CE1	3:L:146:ILE:HG23	1.29	1.60
2:K:111:SER:HB2	2:K:148:VAL:C	1.23	1.60
2:K:144:VAL:HG13	2:K:153:ILE:CD1	1.22	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:ILE:CD1	1:A:759:ALA:CB	1.78	1.60
1:J:84:MLY:CE	1:J:724:TYR:HE2	1.15	1.60
1:J:725:ARG:HE	1:J:733:PRO:CB	1.09	1.60
1:P:797:PHE:CZ	3:R:146:ILE:CD1	1.83	1.60
1:G:93:MET:CE	1:G:764:MLY:HD3	1.18	1.60
1:M:813:ILE:HG23	2:N:128:PHE:CZ	1.32	1.59
1:J:792:ALA:HB2	3:L:42:THR:CG2	1.15	1.59
1:G:538:GLU:CA	4:V:349:LEU:CD1	1.79	1.59
1:G:757:GLN:CG	1:G:776:GLU:HG2	1.27	1.59
1:J:797:PHE:CD1	3:L:146:ILE:CG2	1.78	1.58
1:M:797:PHE:CZ	3:O:146:ILE:CD1	1.75	1.58
1:J:84:MLY:CH2	1:J:720:PHE:HA	1.30	1.58
1:J:538:GLU:CA	4:W:349:LEU:CD1	1.79	1.58
2:N:111:SER:HB2	2:N:148:VAL:C	1.22	1.58
4:2:202:THR:HB	4:Z:287:ILE:CG2	1.30	1.58
1:J:710:GLY:CA	1:J:772:LEU:HD22	1.17	1.58
1:M:724:TYR:CE1	1:M:775:LEU:HB3	1.09	1.58
2:K:144:VAL:HG13	2:K:153:ILE:CG1	1.17	1.58
1:P:725:ARG:HE	1:P:733:PRO:CB	1.09	1.58
2:Q:144:VAL:HG13	2:Q:153:ILE:CD1	1.22	1.58
1:D:726:VAL:HG12	1:D:785:GLU:CG	1.31	1.57
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.57
2:Q:111:SER:HB2	2:Q:148:VAL:C	1.23	1.57
1:A:538:GLU:CA	4:8:349:LEU:CD1	1.78	1.57
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.57
2:Q:144:VAL:HG13	2:Q:153:ILE:CG1	1.17	1.57
1:G:757:GLN:HG3	1:G:776:GLU:CG	1.30	1.57
1:J:84:MLY:HH11	1:J:720:PHE:CD1	1.34	1.57
1:P:829:TRP:CZ2	2:Q:83:MET:HE3	1.32	1.57
1:A:725:ARG:HE	1:A:733:PRO:CB	1.09	1.57
1:A:736:GLN:HA	1:A:743:ALA:CB	1.35	1.57
2:N:144:VAL:HG13	2:N:153:ILE:CD1	1.22	1.57
4:2:287:ILE:CG1	4:4:203:THR:N	1.67	1.57
1:D:725:ARG:HE	1:D:733:PRO:CB	1.09	1.57
1:J:798:LEU:CD1	3:L:126:LEU:HD11	1.19	1.57
1:P:206:LYS:CD	1:P:217:THR:HG23	1.28	1.57
1:P:792:ALA:CB	3:R:42:THR:HG22	1.22	1.57
1:G:725:ARG:HE	1:G:733:PRO:CB	1.09	1.56
1:G:797:PHE:CZ	3:I:146:ILE:HD12	1.35	1.56
1:P:838:ILE:HD11	2:Q:54:MET:CE	1.09	1.56
1:G:768:MLY:HH23	1:G:772:LEU:CD1	1.13	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:736:GLN:HA	1:P:743:ALA:CB	1.35	1.56
1:M:829:TRP:CZ2	2:N:83:MET:HE3	1.38	1.56
2:N:144:VAL:HG13	2:N:153:ILE:CG1	1.17	1.56
1:D:538:GLU:CA	4:9:349:LEU:CD1	1.78	1.56
1:P:538:GLU:CA	4:1:349:LEU:CD1	1.79	1.56
4:2:287:ILE:HG23	4:4:202:THR:CB	1.26	1.56
1:M:725:ARG:HE	1:M:733:PRO:CB	1.09	1.56
4:1:243:PRO:CB	4:Y:291:LYS:HE3	1.33	1.55
1:A:530:MET:HG2	4:8:354:GLN:CB	1.35	1.55
1:D:641:LYS:HG3	1:D:647:GLN:CG	1.36	1.55
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	1.55
1:J:710:GLY:HA2	1:J:772:LEU:CD2	1.27	1.55
1:M:206:LYS:CD	1:M:217:THR:HG23	1.28	1.55
1:M:538:GLU:CA	4:Z:349:LEU:CD1	1.79	1.55
1:P:838:ILE:CD1	2:Q:54:MET:HE3	1.07	1.55
1:A:206:LYS:CD	1:A:217:THR:HG23	1.28	1.55
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.55
1:J:206:LYS:CD	1:J:217:THR:HG23	1.28	1.54
1:P:641:LYS:HG3	1:P:647:GLN:CG	1.37	1.54
1:A:505:MLY:CD	1:A:762:HIS:HA	1.36	1.54
2:H:144:VAL:HG13	2:H:153:ILE:CG1	1.17	1.54
1:A:505:MLY:CB	1:A:762:HIS:HD2	1.16	1.54
1:D:791:GLN:HE22	3:F:115:GLY:CA	1.14	1.54
1:M:736:GLN:HA	1:M:743:ALA:CB	1.35	1.54
1:G:206:LYS:CD	1:G:217:THR:HG23	1.28	1.54
1:A:757:GLN:CB	1:A:771:LEU:HD11	1.08	1.53
1:A:768:MLY:CB	1:A:771:LEU:HB2	1.38	1.53
1:D:206:LYS:CD	1:D:217:THR:HG23	1.28	1.53
1:D:818:TYR:CB	2:E:90:GLY:CA	1.78	1.53
1:G:530:MET:HG2	4:V:354:GLN:CB	1.35	1.53
1:J:736:GLN:HA	1:J:743:ALA:CB	1.35	1.53
1:M:641:LYS:HG3	1:M:647:GLN:CG	1.37	1.53
1:M:795:ARG:HG2	3:O:118:MET:CE	1.39	1.53
2:N:117:LEU:HD12	2:N:147:ASN:CG	1.30	1.53
1:G:736:GLN:HA	1:G:743:ALA:CB	1.35	1.53
1:A:757:GLN:CG	1:A:771:LEU:HD11	1.31	1.53
1:G:768:MLY:CH2	1:G:772:LEU:HD13	1.14	1.53
1:P:795:ARG:HG2	3:R:118:MET:CE	1.34	1.53
1:P:819:ASN:ND2	2:Q:92:ASP:CB	1.70	1.53
1:D:727:LEU:HD12	1:D:782:MLY:CE	1.39	1.52
4:2:287:ILE:HG12	4:4:202:THR:C	1.29	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.29	1.52
1:G:149:GLN:CG	1:G:763:THR:HG21	1.09	1.52
1:J:206:LYS:HD3	1:J:217:THR:CG2	1.40	1.52
1:M:530:MET:HG2	4:Z:354:GLN:CB	1.36	1.52
1:J:795:ARG:CB	3:L:35:ARG:NH1	1.71	1.51
4:3:290:ARG:NH2	4:5:202:THR:CG2	1.71	1.51
1:D:727:LEU:HD12	1:D:782:MLY:CD	1.33	1.51
1:M:838:ILE:HD11	2:N:54:MET:CE	1.06	1.51
2:Q:117:LEU:HD12	2:Q:147:ASN:CG	1.30	1.51
4:1:247:VAL:CG2	4:Y:324:THR:HG22	1.35	1.51
1:J:530:MET:HG2	4:W:354:GLN:CB	1.36	1.51
1:P:795:ARG:CG	3:R:118:MET:HE1	1.40	1.51
1:A:641:LYS:HG3	1:A:647:GLN:CG	1.37	1.51
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.51
2:N:117:LEU:HD12	2:N:147:ASN:CB	1.41	1.51
1:D:736:GLN:HA	1:D:743:ALA:CB	1.35	1.50
1:G:556:ASP:CG	4:X:47:MET:CE	1.76	1.50
1:J:838:ILE:HD11	2:K:54:MET:CE	1.36	1.50
1:A:206:LYS:HD3	1:A:217:THR:CG2	1.40	1.50
1:G:754:ASP:CA	1:G:779:ARG:HD2	1.36	1.50
1:M:838:ILE:CD1	2:N:54:MET:HE3	1.04	1.50
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.50
1:D:823:PHE:CE1	2:E:160:GLY:HA2	1.46	1.50
1:D:206:LYS:HD3	1:D:217:THR:CG2	1.40	1.50
1:G:641:LYS:CD	1:G:647:GLN:CD	1.85	1.50
1:P:530:MET:HG2	4:1:354:GLN:CB	1.36	1.50
4:W:324:THR:CG2	4:Y:247:VAL:H	1.25	1.50
1:M:641:LYS:CD	1:M:647:GLN:CD	1.85	1.50
1:M:813:ILE:CG2	2:N:128:PHE:CZ	1.91	1.50
1:D:530:MET:HG2	4:9:354:GLN:CB	1.35	1.49
1:D:813:ILE:HG23	2:E:128:PHE:CZ	1.46	1.49
1:P:206:LYS:HD3	1:P:217:THR:CG2	1.40	1.49
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.49
2:H:117:LEU:HD12	2:H:147:ASN:CB	1.42	1.49
1:M:206:LYS:HD3	1:M:217:THR:CG2	1.40	1.49
4:2:203:THR:N	4:Z:287:ILE:HG12	1.22	1.49
1:G:792:ALA:HB2	3:I:42:THR:CG2	1.42	1.49
1:D:834:LEU:HD21	2:E:54:MET:CE	1.39	1.48
1:G:641:LYS:HG3	1:G:647:GLN:CG	1.37	1.48
1:P:508:ILE:HD11	1:P:766:PHE:CD1	1.48	1.48
1:A:149:GLN:HB2	1:A:718:ALA:CB	1.40	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:117:LEU:HD12	2:Q:147:ASN:CB	1.41	1.48
1:D:641:LYS:CG	1:D:647:GLN:NE2	1.77	1.48
1:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.48
1:P:538:GLU:C	4:1:349:LEU:CD1	1.84	1.48
1:P:641:LYS:CG	1:P:647:GLN:NE2	1.77	1.48
1:J:641:LYS:CD	1:J:647:GLN:CD	1.85	1.48
1:P:641:LYS:CD	1:P:647:GLN:CD	1.85	1.48
1:D:834:LEU:CD2	2:E:54:MET:HE3	1.42	1.48
1:M:793:ARG:NH1	3:O:40:ASN:HD22	1.03	1.48
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.47
1:G:797:PHE:CZ	3:I:146:ILE:CD1	1.97	1.47
1:A:508:ILE:HD11	1:A:759:ALA:CB	1.31	1.47
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	1.47
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.47
1:D:727:LEU:HB2	1:D:782:MLY:CH1	1.01	1.47
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.47
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	1.47
2:K:117:LEU:HD12	2:K:147:ASN:CB	1.41	1.47
4:X:324:THR:HG22	4:Z:247:VAL:CG2	1.42	1.46
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.46
1:J:641:LYS:CG	1:J:647:GLN:NE2	1.77	1.46
1:J:819:ASN:ND2	2:K:92:ASP:HB2	1.16	1.46
1:M:538:GLU:C	4:Z:349:LEU:CD1	1.84	1.46
1:G:641:LYS:CG	1:G:647:GLN:NE2	1.77	1.46
1:J:836:PHE:CE1	2:K:159:HIS:HA	1.49	1.46
1:D:769:ALA:HA	1:D:771:LEU:CA	1.36	1.45
1:J:798:LEU:HD11	3:L:126:LEU:CD1	1.00	1.45
1:M:641:LYS:CG	1:M:647:GLN:NE2	1.77	1.45
1:G:818:TYR:CZ	2:H:127:ARG:NH2	1.74	1.45
1:A:93:MET:HE2	1:A:715:VAL:CA	1.43	1.45
1:M:783:LEU:HG	1:M:786:ILE:CD1	1.47	1.45
1:G:838:ILE:HD11	2:H:54:MET:CE	1.45	1.44
4:4:288:ASP:CG	4:6:203:THR:CG2	1.90	1.44
1:A:768:MLY:HB3	1:A:771:LEU:CB	1.46	1.44
1:G:97:LEU:CD2	1:G:712:PRO:HB3	1.41	1.44
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.38	1.44
1:P:791:GLN:NE2	3:R:115:GLY:HA3	1.20	1.44
1:P:546:THR:CG2	4:3:46:GLY:O	1.66	1.44
1:P:830:PRO:CB	2:Q:67:MET:HE2	1.46	1.44
4:2:202:THR:CB	4:Z:287:ILE:HG23	1.45	1.43
1:G:792:ALA:HB2	3:I:42:THR:CA	1.49	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:769:ALA:CA	1:D:771:LEU:HA	1.43	1.43
1:D:791:GLN:NE2	3:F:115:GLY:HA3	1.27	1.43
4:X:286:ASP:OD1	4:Z:202:THR:CB	1.64	1.43
1:A:721:LYS:HG3	1:A:736:GLN:CG	1.15	1.43
1:M:830:PRO:CB	2:N:67:MET:HE2	1.49	1.43
1:A:505:MLY:HD3	1:A:762:HIS:CA	1.49	1.42
1:G:567:LYS:NZ	4:X:92:ASN:HD22	1.17	1.42
1:G:730:SER:OG	3:I:113:THR:CG2	1.64	1.42
1:M:795:ARG:CG	3:O:118:MET:HE1	1.48	1.42
1:M:733:PRO:O	1:M:737:PHE:CD1	1.73	1.42
1:D:641:LYS:HG3	1:D:647:GLN:CD	1.45	1.42
1:D:727:LEU:CB	1:D:782:MLY:HH13	1.45	1.42
1:P:795:ARG:NH2	3:R:116:GLU:CG	1.81	1.42
1:D:795:ARG:NH2	3:F:116:GLU:CD	1.76	1.41
1:P:641:LYS:CG	1:P:647:GLN:CD	1.93	1.41
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.41
1:J:84:MLY:HH21	1:J:720:PHE:CA	1.50	1.41
1:A:733:PRO:O	1:A:737:PHE:CD1	1.73	1.41
1:D:736:GLN:N	1:D:743:ALA:HB1	1.35	1.41
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.41
1:J:505:MLY:HD2	1:J:762:HIS:CE1	1.53	1.41
1:M:641:LYS:CG	1:M:647:GLN:CD	1.93	1.41
4:2:287:ILE:HG12	4:4:202:THR:CA	1.51	1.41
1:G:791:GLN:NE2	3:I:115:GLY:HA3	1.32	1.41
1:M:95:THR:HG1	1:M:770:GLY:N	1.01	1.41
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	1.41
1:G:149:GLN:CG	1:G:763:THR:CG2	1.93	1.41
1:G:149:GLN:CD	1:G:763:THR:HG21	1.22	1.41
1:M:202:SER:HA	1:M:207:LYS:CE	1.51	1.41
1:P:725:ARG:NH2	3:R:85:GLU:HG3	1.08	1.41
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.48	1.40
1:P:546:THR:OG1	4:3:46:GLY:CA	1.64	1.40
1:P:791:GLN:HE22	3:R:115:GLY:CA	1.34	1.40
1:G:530:MET:CG	4:V:354:GLN:HB2	1.51	1.40
1:P:830:PRO:HB3	2:Q:67:MET:CE	1.48	1.40
1:G:218:LEU:CB	1:G:221:GLN:HG3	1.52	1.40
1:G:792:ALA:CB	3:I:42:THR:HG22	1.51	1.40
1:M:721:LYS:HG3	1:M:736:GLN:CG	1.15	1.40
1:M:813:ILE:CG2	2:N:128:PHE:CE1	2.03	1.40
1:A:537:GLU:O	4:8:349:LEU:CD1	1.70	1.40
1:G:736:GLN:CA	1:G:743:ALA:CB	2.00	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:641:LYS:HG3	1:M:647:GLN:CD	1.46	1.40
1:A:501:GLU:HG2	1:A:762:HIS:ND1	1.11	1.40
1:D:202:SER:HA	1:D:207:LYS:CE	1.51	1.40
1:D:736:GLN:CA	1:D:743:ALA:CB	2.00	1.40
2:E:144:VAL:CG1	2:E:153:ILE:CD1	1.99	1.40
1:P:736:GLN:N	1:P:743:ALA:HB1	1.35	1.40
1:P:783:LEU:HG	1:P:786:ILE:CD1	1.49	1.40
1:A:218:LEU:CB	1:A:221:GLN:HG3	1.52	1.39
1:D:530:MET:CG	4:9:354:GLN:HB2	1.50	1.39
1:D:822:SER:OG	2:E:88:LEU:CD2	1.71	1.39
1:P:733:PRO:O	1:P:737:PHE:CD1	1.74	1.39
1:G:202:SER:HA	1:G:207:LYS:CE	1.51	1.39
1:M:218:LEU:CB	1:M:221:GLN:HG3	1.52	1.39
1:M:795:ARG:NE	3:O:116:GLU:HB3	1.14	1.39
1:P:218:LEU:CB	1:P:221:GLN:HG3	1.52	1.39
1:P:721:LYS:HG3	1:P:736:GLN:CG	1.15	1.39
1:A:530:MET:CG	4:8:354:GLN:HB2	1.50	1.39
2:H:144:VAL:CG1	2:H:153:ILE:CD1	1.99	1.39
2:K:144:VAL:CG1	2:K:153:ILE:CD1	1.99	1.39
1:P:537:GLU:O	4:1:349:LEU:CD1	1.70	1.39
1:A:508:ILE:CD1	1:A:759:ALA:HB1	0.92	1.39
1:A:736:GLN:CA	1:A:743:ALA:HB1	1.53	1.39
1:D:795:ARG:CG	3:F:118:MET:HE1	1.50	1.39
1:G:792:ALA:HB2	3:I:42:THR:CB	1.50	1.39
1:J:537:GLU:O	4:W:349:LEU:CD1	1.70	1.39
1:P:530:MET:CG	4:1:354:GLN:HB2	1.51	1.39
4:4:288:ASP:CG	4:6:203:THR:HG23	1.47	1.39
1:D:733:PRO:O	1:D:737:PHE:CD1	1.74	1.39
1:D:791:GLN:CD	3:F:116:GLU:H	1.30	1.39
1:D:795:ARG:HG2	3:F:118:MET:CE	1.50	1.39
1:G:796:GLY:HA2	3:I:35:ARG:CD	1.52	1.39
1:G:797:PHE:CE2	3:I:126:LEU:CD2	2.03	1.39
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.39
1:J:792:ALA:CB	3:L:42:THR:HG22	1.52	1.39
1:D:537:GLU:O	4:9:349:LEU:CD1	1.70	1.38
1:G:149:GLN:CD	1:G:763:THR:CG2	1.76	1.38
1:G:733:PRO:O	1:G:737:PHE:CD1	1.74	1.38
1:J:202:SER:HA	1:J:207:LYS:CE	1.51	1.38
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.46	1.38
1:J:733:PRO:O	1:J:737:PHE:CD1	1.73	1.38
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:818:TYR:HB2	2:E:90:GLY:CA	1.37	1.38
1:J:736:GLN:CA	1:J:743:ALA:CB	2.00	1.38
1:D:724:TYR:CA	1:D:782:MLY:HD2	1.53	1.38
1:D:736:GLN:CA	1:D:743:ALA:HB1	1.53	1.38
1:D:797:PHE:HE2	3:F:126:LEU:CD2	1.37	1.38
1:M:724:TYR:CE1	1:M:775:LEU:CB	2.05	1.38
1:P:736:GLN:CA	1:P:743:ALA:HB1	1.53	1.38
1:J:795:ARG:HB3	3:L:35:ARG:NH1	1.10	1.38
1:M:530:MET:CG	4:Z:354:GLN:HB2	1.51	1.38
2:N:144:VAL:CG1	2:N:153:ILE:HG12	1.54	1.38
1:P:834:LEU:HD12	2:Q:51:PHE:CE1	1.56	1.38
1:G:721:LYS:HG3	1:G:736:GLN:CG	1.15	1.38
1:A:736:GLN:CA	1:A:743:ALA:CB	2.00	1.37
1:J:534:SER:O	4:W:351:THR:CG2	1.64	1.38
1:M:736:GLN:CA	1:M:743:ALA:CB	2.00	1.38
1:M:795:ARG:HE	3:O:116:GLU:CB	1.36	1.37
1:P:202:SER:HA	1:P:207:LYS:CE	1.51	1.38
1:A:149:GLN:CB	1:A:718:ALA:HB3	1.53	1.37
1:D:218:LEU:CB	1:D:221:GLN:HG3	1.52	1.37
1:J:218:LEU:CB	1:J:221:GLN:HG3	1.52	1.37
1:J:721:LYS:HG3	1:J:736:GLN:CG	1.15	1.37
1:P:534:SER:O	4:1:351:THR:CG2	1.64	1.37
1:P:736:GLN:CA	1:P:743:ALA:CB	2.00	1.37
4:X:291:LYS:CE	4:Z:243:PRO:HB2	1.52	1.37
1:M:537:GLU:O	4:Z:349:LEU:CD1	1.70	1.37
1:M:795:ARG:CD	3:O:43:ASN:OD1	1.70	1.37
1:M:797:PHE:CE1	3:O:146:ILE:HD12	1.59	1.37
1:M:805:ALA:C	1:M:806:MET:N	1.80	1.37
1:P:721:LYS:CG	1:P:736:GLN:CD	1.98	1.37
2:Q:117:LEU:HB2	2:Q:147:ASN:ND2	1.39	1.37
4:3:290:ARG:CZ	4:5:202:THR:HG21	1.52	1.37
1:J:530:MET:CG	4:W:354:GLN:HB2	1.51	1.37
1:J:721:LYS:CG	1:J:736:GLN:CG	1.97	1.37
1:J:797:PHE:CD1	3:L:146:ILE:HG23	0.85	1.37
2:Q:144:VAL:CG1	2:Q:153:ILE:HG12	1.54	1.37
1:A:202:SER:HA	1:A:207:LYS:CE	1.51	1.37
1:G:642:LYS:HG3	4:V:23:GLY:N	1.39	1.37
1:G:736:GLN:N	1:G:743:ALA:HB1	1.34	1.37
2:H:144:VAL:CG1	2:H:153:ILE:HG12	1.54	1.37
1:M:830:PRO:HB3	2:N:67:MET:CE	1.55	1.37
2:N:144:VAL:CG1	2:N:153:ILE:CD1	1.99	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:144:VAL:CG1	2:Q:153:ILE:CD1	1.99	1.37
1:A:642:LYS:HG3	4:8:23:GLY:N	1.40	1.36
1:A:721:LYS:CG	1:A:736:GLN:CG	1.97	1.36
1:G:537:GLU:O	4:V:349:LEU:CD1	1.71	1.36
1:A:721:LYS:CG	1:A:736:GLN:CD	1.98	1.36
1:D:649:VAL:O	1:D:649:VAL:CG1	1.74	1.36
1:D:797:PHE:CE2	3:F:126:LEU:CD2	2.09	1.36
2:H:144:VAL:CG1	2:H:153:ILE:CG1	2.03	1.36
4:1:287:ILE:HB	4:3:203:THR:CG2	1.54	1.36
1:D:747:LEU:CD1	1:D:782:MLY:HH21	1.52	1.36
2:E:144:VAL:CG1	2:E:153:ILE:CG1	2.03	1.36
1:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	1.36
2:K:117:LEU:HB2	2:K:147:ASN:ND2	1.39	1.36
1:D:534:SER:O	4:9:351:THR:CG2	1.64	1.36
2:E:144:VAL:CG1	2:E:153:ILE:HG12	1.54	1.36
1:G:553:MLY:CH1	4:X:45:VAL:HG11	1.55	1.36
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.36
1:G:819:ASN:CA	2:H:90:GLY:O	1.69	1.36
1:J:736:GLN:N	1:J:743:ALA:HB1	1.35	1.36
1:M:795:ARG:NH2	3:O:116:GLU:HG2	1.38	1.36
1:J:642:LYS:HG3	4:W:23:GLY:N	1.40	1.36
1:M:829:TRP:CZ3	2:N:84:PHE:CE1	2.13	1.36
1:D:538:GLU:CA	4:9:349:LEU:HD12	0.87	1.35
1:P:538:GLU:CA	4:1:349:LEU:HD12	0.88	1.35
2:Q:144:VAL:CG1	2:Q:153:ILE:CG1	2.03	1.35
4:4:288:ASP:OD2	4:6:203:THR:CG2	1.72	1.35
1:J:538:GLU:CA	4:W:349:LEU:HD12	0.88	1.35
1:M:721:LYS:CG	1:M:736:GLN:CD	1.98	1.35
1:M:831:TRP:CH2	2:N:47:LEU:HD21	1.61	1.35
1:P:783:LEU:CG	1:P:786:ILE:HD11	1.55	1.35
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	1.35
2:E:117:LEU:CD1	2:E:147:ASN:OD1	1.74	1.35
1:M:736:GLN:N	1:M:743:ALA:HB1	1.35	1.35
1:P:721:LYS:CG	1:P:736:GLN:CG	1.97	1.35
1:A:534:SER:O	4:8:351:THR:CG2	1.64	1.35
1:D:642:LYS:HG3	4:9:23:GLY:N	1.40	1.35
4:2:287:ILE:CG2	4:4:202:THR:CB	1.87	1.35
1:G:792:ALA:CB	3:I:42:THR:CG2	2.05	1.34
2:H:117:LEU:CD1	2:H:147:ASN:OD1	1.74	1.34
2:K:117:LEU:CD1	2:K:147:ASN:OD1	1.74	1.34
1:M:642:LYS:HG3	4:Z:23:GLY:N	1.40	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:GLU:CG	1:A:762:HIS:ND1	1.87	1.34
1:A:530:MET:HA	4:8:354:GLN:CG	1.56	1.34
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.34
1:J:557:GLU:CA	4:Y:47:MET:HA	1.08	1.34
1:J:798:LEU:CD1	3:L:126:LEU:CD1	1.81	1.34
1:A:736:GLN:N	1:A:743:ALA:HB1	1.35	1.34
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.40	1.34
1:P:641:LYS:HG3	1:P:647:GLN:CD	1.46	1.34
1:A:538:GLU:CA	4:8:349:LEU:HD12	0.87	1.34
1:G:534:SER:O	4:V:351:THR:CG2	1.64	1.34
1:M:538:GLU:CA	4:Z:349:LEU:HD12	0.88	1.34
1:A:649:VAL:O	1:A:649:VAL:CG1	1.74	1.34
1:J:649:VAL:O	1:J:649:VAL:CG1	1.74	1.34
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	1.34
1:J:736:GLN:CA	1:J:743:ALA:HB1	1.53	1.34
1:J:817:GLN:CG	2:K:127:ARG:HD2	1.56	1.34
4:1:287:ILE:CB	4:3:203:THR:HG22	1.56	1.34
4:1:290:ARG:HH21	4:3:202:THR:CG2	1.41	1.34
1:P:649:VAL:CG1	1:P:649:VAL:O	1.74	1.33
1:D:721:LYS:HG3	1:D:736:GLN:CG	1.15	1.33
1:G:629:GLU:HA	1:G:643:GLY:O	1.17	1.33
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	1.33
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.33
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.07	1.33
1:M:530:MET:HA	4:Z:354:GLN:CG	1.56	1.33
1:P:820:VAL:CG1	2:Q:136:MET:HE1	1.57	1.33
2:Q:117:LEU:CD1	2:Q:147:ASN:OD1	1.74	1.33
1:A:635:GLY:CA	4:8:334:GLU:HG2	1.59	1.33
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.33
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	1.33
1:J:537:GLU:C	4:W:349:LEU:HD13	1.52	1.33
1:M:635:GLY:CA	4:Z:334:GLU:HG2	1.59	1.33
1:A:629:GLU:HA	1:A:643:GLY:O	1.17	1.33
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.33
2:E:117:LEU:HB2	2:E:147:ASN:ND2	1.39	1.33
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	1.33
1:P:642:LYS:HG3	4:1:23:GLY:N	1.40	1.33
1:P:804:ARG:HG2	1:P:808:GLU:CG	1.58	1.33
1:D:818:TYR:CB	2:E:90:GLY:HA3	0.86	1.33
1:J:530:MET:HA	4:W:354:GLN:CG	1.56	1.33
2:K:114:LYS:CA	2:K:146:GLY:O	1.76	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:537:GLU:C	4:Z:349:LEU:HD13	1.52	1.33
1:M:649:VAL:O	1:M:649:VAL:CG1	1.74	1.33
1:M:735:GLY:C	1:M:743:ALA:CB	2.01	1.33
1:M:834:LEU:HD12	2:N:51:PHE:CE1	1.62	1.33
2:N:117:LEU:CD1	2:N:147:ASN:OD1	1.74	1.33
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.32
1:D:795:ARG:CD	3:F:43:ASN:OD1	1.76	1.32
1:G:635:GLY:CA	4:V:334:GLU:HG2	1.59	1.32
1:J:629:GLU:HA	1:J:643:GLY:O	1.17	1.32
1:M:735:GLY:O	1:M:743:ALA:HB2	1.29	1.32
1:P:537:GLU:C	4:1:349:LEU:HD13	1.52	1.32
1:P:725:ARG:HH11	3:R:89:GLU:CD	1.35	1.32
1:P:735:GLY:C	1:P:743:ALA:CB	2.01	1.32
1:P:795:ARG:NE	3:R:116:GLU:HB3	1.43	1.32
1:A:725:ARG:NE	1:A:733:PRO:HB3	1.00	1.32
1:D:629:GLU:HA	1:D:643:GLY:O	1.17	1.32
1:G:754:ASP:OD2	1:G:779:ARG:CB	1.74	1.32
1:G:830:PRO:CB	2:H:67:MET:HE2	1.58	1.32
1:J:826:VAL:HG21	2:K:88:LEU:CD2	1.59	1.32
1:M:795:ARG:NH2	3:O:116:GLU:CG	1.92	1.32
1:P:820:VAL:HG11	2:Q:136:MET:CE	1.57	1.32
1:A:537:GLU:C	4:8:349:LEU:HD13	1.52	1.32
1:A:757:GLN:HB3	1:A:771:LEU:CG	1.59	1.32
2:E:114:LYS:CA	2:E:146:GLY:O	1.76	1.32
2:K:144:VAL:CG1	2:K:153:ILE:HG12	1.54	1.32
4:1:202:THR:CB	4:Y:286:ASP:OD1	1.75	1.32
4:2:287:ILE:HG12	4:4:203:THR:N	1.25	1.32
1:A:757:GLN:OE1	1:A:771:LEU:HD12	1.24	1.32
1:D:530:MET:HA	4:9:354:GLN:CG	1.56	1.32
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.20	1.32
1:J:819:ASN:CA	2:K:90:GLY:O	1.76	1.32
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.32
1:G:530:MET:HA	4:V:354:GLN:CG	1.57	1.32
1:J:795:ARG:NH2	3:L:116:GLU:CD	1.84	1.32
1:M:534:SER:O	4:Z:351:THR:CG2	1.64	1.32
1:P:530:MET:HA	4:1:354:GLN:CG	1.56	1.32
2:Q:114:LYS:CA	2:Q:146:GLY:O	1.76	1.32
1:A:502:GLU:CA	1:A:761:GLY:HA3	1.58	1.31
1:D:724:TYR:HA	1:D:782:MLY:CD	1.47	1.31
1:D:791:GLN:HE22	3:F:115:GLY:C	1.34	1.31
1:G:813:ILE:HG23	2:H:128:PHE:CZ	1.64	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:818:TYR:OH	2:H:127:ARG:NH2	1.61	1.31
4:2:203:THR:H	4:Z:287:ILE:CB	1.42	1.31
2:H:114:LYS:CA	2:H:146:GLY:O	1.76	1.31
1:J:635:GLY:CA	4:W:334:GLU:HG2	1.59	1.31
1:M:736:GLN:CA	1:M:743:ALA:HB1	1.53	1.31
2:N:117:LEU:HB2	2:N:147:ASN:ND2	1.40	1.31
1:P:635:GLY:CA	4:1:334:GLU:HG2	1.59	1.31
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.31
1:D:795:ARG:CZ	3:F:116:GLU:OE2	1.77	1.31
2:K:121:LEU:O	2:K:128:PHE:CB	1.79	1.31
1:D:635:GLY:CA	4:9:334:GLU:HG2	1.59	1.31
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.31
1:P:546:THR:OG1	4:3:46:GLY:C	1.70	1.31
1:D:725:ARG:NE	1:D:733:PRO:HB3	1.00	1.30
2:N:114:LYS:CA	2:N:146:GLY:O	1.76	1.30
1:P:829:TRP:HZ2	2:Q:83:MET:CE	1.43	1.30
1:A:599:ASN:HA	1:A:649:VAL:CB	1.61	1.30
1:G:721:LYS:HG2	1:G:736:GLN:OE1	1.29	1.30
1:J:819:ASN:CG	2:K:92:ASP:CB	1.90	1.30
1:G:599:ASN:HA	1:G:649:VAL:CB	1.60	1.30
2:H:121:LEU:O	2:H:128:PHE:CB	1.79	1.30
1:P:538:GLU:C	4:1:349:LEU:HD12	1.48	1.30
1:P:599:ASN:HA	1:P:649:VAL:CB	1.60	1.30
4:1:247:VAL:HG22	4:Y:324:THR:CG2	1.59	1.30
4:2:287:ILE:CB	4:4:202:THR:HB	1.60	1.30
1:G:721:LYS:HG3	1:G:736:GLN:CD	1.54	1.30
1:M:538:GLU:C	4:Z:349:LEU:HD12	1.48	1.30
1:M:599:ASN:HA	1:M:649:VAL:CB	1.60	1.30
1:M:721:LYS:HG3	1:M:736:GLN:CD	1.54	1.30
1:M:797:PHE:CE2	3:O:126:LEU:CD2	2.12	1.30
1:D:721:LYS:CG	1:D:736:GLN:CG	1.97	1.30
2:E:121:LEU:O	2:E:128:PHE:CB	1.79	1.30
1:G:725:ARG:NE	1:G:733:PRO:HB3	1.00	1.30
1:J:725:ARG:NE	1:J:733:PRO:HB3	1.00	1.30
1:M:629:GLU:HA	1:M:643:GLY:O	1.17	1.30
1:M:804:ARG:O	1:M:808:GLU:N	1.60	1.30
1:P:725:ARG:NE	1:P:733:PRO:HB3	1.00	1.30
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	1.29
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.29
1:J:756:THR:C	1:J:776:GLU:OE1	1.73	1.29
1:M:821:ARG:NH2	2:N:127:ARG:HG2	1.46	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:721:LYS:HG3	1:D:736:GLN:CD	1.54	1.29
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.00	1.29
1:G:215:GLN:N	1:G:340:ILE:HG12	1.20	1.29
1:M:725:ARG:NE	1:M:733:PRO:HB3	1.00	1.29
1:P:721:LYS:HG3	1:P:736:GLN:CD	1.53	1.29
1:A:215:GLN:N	1:A:340:ILE:HG12	1.20	1.29
1:D:599:ASN:HA	1:D:649:VAL:CB	1.61	1.29
1:D:735:GLY:O	1:D:743:ALA:HB2	1.29	1.29
1:M:721:LYS:HG2	1:M:736:GLN:OE1	1.29	1.29
1:P:831:TRP:CH2	2:Q:47:LEU:HD21	1.66	1.29
2:Q:117:LEU:CD1	2:Q:147:ASN:CG	2.05	1.29
1:M:95:THR:O	1:M:770:GLY:N	1.66	1.29
2:Q:121:LEU:O	2:Q:128:PHE:CB	1.79	1.29
1:A:95:THR:OG1	1:A:769:ALA:HA	1.22	1.29
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	1.28
1:P:806:MET:C	1:P:807:VAL:HG23	1.56	1.28
1:P:829:TRP:CZ3	2:Q:84:PHE:CE1	2.20	1.28
4:2:202:THR:C	4:Z:287:ILE:HG12	1.56	1.28
1:G:538:GLU:O	4:V:349:LEU:CD1	1.78	1.28
2:N:121:LEU:O	2:N:128:PHE:CB	1.79	1.28
4:W:325:MET:SD	4:Y:244:ASP:HB2	1.72	1.28
4:X:291:LYS:CE	4:Z:243:PRO:CB	2.06	1.28
1:A:93:MET:CE	1:A:715:VAL:HA	1.62	1.28
1:D:823:PHE:CE1	2:E:160:GLY:CA	2.14	1.28
1:G:97:LEU:CD2	1:G:712:PRO:CB	2.11	1.28
1:M:534:SER:O	4:Z:351:THR:CA	1.82	1.28
4:W:324:THR:HG21	4:Y:247:VAL:N	0.98	1.28
4:X:291:LYS:HD2	4:Z:244:ASP:N	1.48	1.28
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.27
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	1.27
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.27
1:G:797:PHE:CZ	3:I:126:LEU:HD22	1.69	1.27
1:J:829:TRP:CZ3	2:K:84:PHE:CE1	2.22	1.27
1:J:829:TRP:CZ3	2:K:84:PHE:CZ	2.20	1.27
1:M:538:GLU:O	4:Z:349:LEU:CD1	1.78	1.27
1:P:506:GLU:O	1:P:762:HIS:N	1.65	1.27
1:P:629:GLU:HA	1:P:643:GLY:O	1.17	1.27
1:D:726:VAL:CG1	1:D:785:GLU:HB3	1.64	1.27
1:G:721:LYS:CG	1:G:736:GLN:CG	1.97	1.27
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	1.27
1:P:817:GLN:OE1	2:Q:127:ARG:HD2	1.26	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:166:TYR:CE2	4:3:64:ILE:HG21	1.68	1.27
4:2:288:ASP:CG	4:4:203:THR:HG21	1.59	1.27
1:A:534:SER:O	4:8:351:THR:CA	1.81	1.27
1:G:556:ASP:CG	4:X:47:MET:HE3	1.10	1.27
1:J:94:MET:O	1:J:713:SER:HB3	1.11	1.27
2:N:144:VAL:CG1	2:N:153:ILE:CG1	2.03	1.27
1:P:735:GLY:O	1:P:743:ALA:HB2	1.29	1.27
2:Q:121:LEU:C	2:Q:128:PHE:CB	2.07	1.27
4:1:243:PRO:HB2	4:Y:291:LYS:CE	1.64	1.27
1:A:149:GLN:NE2	1:A:718:ALA:CB	1.97	1.27
1:A:506:GLU:HB2	1:A:760:PHE:O	1.11	1.27
1:D:795:ARG:NH2	3:F:116:GLU:CG	1.97	1.27
2:K:144:VAL:CG1	2:K:153:ILE:CG1	2.03	1.27
1:A:149:GLN:OE1	1:A:716:LEU:HD23	1.11	1.26
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.26
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.53	1.26
2:N:117:LEU:CD1	2:N:147:ASN:CG	2.05	1.26
1:P:723:ARG:CZ	1:P:779:ARG:NH1	1.98	1.26
1:A:757:GLN:CB	1:A:771:LEU:CD1	1.88	1.26
1:D:791:GLN:NE2	3:F:116:GLU:N	1.80	1.26
1:D:795:ARG:CZ	3:F:116:GLU:CD	2.05	1.26
1:D:797:PHE:CE1	3:F:146:ILE:HA	1.68	1.26
1:J:733:PRO:O	1:J:737:PHE:HD1	0.93	1.26
1:J:795:ARG:NH2	3:L:116:GLU:OE1	1.62	1.26
4:1:243:PRO:CB	4:Y:291:LYS:CE	2.14	1.26
1:D:506:GLU:OE2	1:D:764:MLY:HH22	1.15	1.26
1:D:793:ARG:NH2	3:F:147:MET:HE3	1.49	1.26
1:J:534:SER:O	4:W:351:THR:CA	1.82	1.26
1:J:795:ARG:HB3	3:L:35:ARG:CZ	1.66	1.26
2:N:121:LEU:C	2:N:128:PHE:CB	2.07	1.26
1:P:733:PRO:O	1:P:737:PHE:HD1	0.93	1.26
1:D:534:SER:O	4:9:351:THR:CA	1.82	1.26
1:G:530:MET:HE2	4:V:354:GLN:CG	1.64	1.26
1:J:756:THR:HG21	1:J:776:GLU:O	1.32	1.26
1:M:793:ARG:NH1	3:O:40:ASN:ND2	1.80	1.26
1:P:725:ARG:CZ	3:R:85:GLU:CG	2.11	1.26
1:D:530:MET:HE2	4:9:354:GLN:CG	1.65	1.26
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.26
1:P:721:LYS:HG2	1:P:736:GLN:OE1	1.29	1.26
4:4:288:ASP:OD2	4:6:203:THR:HG21	1.14	1.26
4:X:286:ASP:CG	4:Z:202:THR:HB	1.32	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:630:ALA:O	4:8:25:ASP:OD2	1.53	1.25
1:A:735:GLY:O	1:A:743:ALA:HB2	1.29	1.25
1:D:538:GLU:O	4:9:349:LEU:CD1	1.78	1.25
1:M:721:LYS:CG	1:M:736:GLN:OE1	1.83	1.25
1:M:819:ASN:OD1	2:N:92:ASP:N	1.69	1.25
4:2:288:ASP:CG	4:4:203:THR:CG2	2.09	1.25
1:D:797:PHE:CD1	3:F:146:ILE:CG2	2.19	1.25
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.25
1:M:715:VAL:CG2	1:M:772:LEU:HD21	1.63	1.25
4:W:324:THR:CG2	4:Y:247:VAL:N	1.89	1.25
1:A:721:LYS:HG3	1:A:736:GLN:CD	1.53	1.25
1:A:752:ASP:OD2	1:A:782:MLY:HD3	1.34	1.25
1:D:721:LYS:CG	1:D:736:GLN:OE1	1.83	1.25
1:G:796:GLY:CA	3:I:35:ARG:HD3	1.66	1.25
1:J:557:GLU:HA	4:Y:47:MET:C	1.62	1.25
1:M:530:MET:HE2	4:Z:354:GLN:CG	1.65	1.25
1:P:723:ARG:NH2	1:P:779:ARG:NH1	1.81	1.25
4:1:290:ARG:NH2	4:3:202:THR:HG22	1.50	1.25
1:D:721:LYS:HG2	1:D:736:GLN:OE1	1.29	1.25
1:A:499:GLU:OE1	1:A:766:PHE:HZ	1.09	1.25
1:D:767:PHE:O	1:D:771:LEU:HD11	1.26	1.25
1:G:534:SER:O	4:V:351:THR:CA	1.83	1.25
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	1.25
1:J:530:MET:HE2	4:W:354:GLN:CG	1.65	1.25
1:J:792:ALA:CB	3:L:42:THR:CG2	2.05	1.25
1:M:730:SER:HA	3:O:89:GLU:OE2	1.21	1.25
1:M:804:ARG:O	1:M:808:GLU:CB	1.84	1.25
1:P:721:LYS:CG	1:P:736:GLN:OE1	1.83	1.25
1:P:817:GLN:HG2	2:Q:127:ARG:CB	1.65	1.25
1:A:721:LYS:HG2	1:A:736:GLN:OE1	1.29	1.25
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.24	1.25
1:G:788:THR:O	3:I:42:THR:HG21	1.33	1.25
1:P:534:SER:O	4:1:351:THR:CA	1.82	1.25
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.25
1:A:530:MET:HE2	4:8:354:GLN:CG	1.65	1.24
1:G:735:GLY:O	1:G:743:ALA:HB2	1.29	1.24
1:G:838:ILE:CD1	2:H:54:MET:CE	2.10	1.24
1:J:821:ARG:NH2	2:K:127:ARG:HG2	1.51	1.24
1:J:838:ILE:CD1	2:K:54:MET:HE3	1.65	1.24
1:M:630:ALA:O	4:Z:25:ASP:OD2	1.52	1.24
1:M:829:TRP:HZ2	2:N:83:MET:CE	1.48	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:818:TYR:CE1	2:Q:127:ARG:NH2	2.05	1.24
4:2:287:ILE:CB	4:4:203:THR:N	2.00	1.24
1:A:538:GLU:O	4:8:349:LEU:CD1	1.78	1.24
1:D:791:GLN:NE2	3:F:116:GLU:H	1.33	1.24
1:M:215:GLN:N	1:M:340:ILE:HG12	1.20	1.24
1:P:530:MET:HE2	4:1:354:GLN:CG	1.65	1.24
2:Q:144:VAL:CG1	2:Q:153:ILE:HD11	1.65	1.24
1:A:506:GLU:CB	1:A:760:PHE:O	1.86	1.24
1:G:733:PRO:O	1:G:737:PHE:HD1	0.93	1.24
1:G:752:ASP:O	1:G:780:ASP:HA	1.11	1.24
1:G:769:ALA:CB	1:G:770:GLY:HA2	1.66	1.24
1:G:795:ARG:CG	3:I:118:MET:HE1	1.68	1.24
1:G:795:ARG:HG2	3:I:118:MET:CE	1.68	1.24
1:J:84:MLY:HD2	1:J:724:TYR:OH	1.26	1.24
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.05	1.24
1:M:797:PHE:CD1	3:O:146:ILE:HG23	1.72	1.24
1:P:630:ALA:O	4:1:25:ASP:OD2	1.52	1.24
1:A:733:PRO:O	1:A:737:PHE:HD1	0.92	1.24
1:A:757:GLN:CG	1:A:771:LEU:CD1	2.11	1.24
2:H:144:VAL:CG1	2:H:153:ILE:HD11	1.65	1.24
1:J:754:ASP:CA	1:J:780:ASP:OD2	1.86	1.24
2:N:144:VAL:CG1	2:N:153:ILE:HD11	1.65	1.24
1:P:538:GLU:O	4:1:349:LEU:CD1	1.78	1.24
1:P:546:THR:HG21	4:3:46:GLY:O	1.22	1.24
4:2:203:THR:N	4:Z:287:ILE:CG1	1.82	1.24
1:G:90:ASP:OD2	1:G:764:MLY:HH11	1.38	1.24
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.24
1:P:725:ARG:NH2	3:R:85:GLU:CG	2.00	1.24
1:D:823:PHE:HE1	2:E:160:GLY:CA	1.48	1.23
1:J:818:TYR:CE1	2:K:127:ARG:NH2	2.05	1.23
1:M:786:ILE:O	1:M:787:ILE:N	1.67	1.23
1:G:791:GLN:HE22	3:I:115:GLY:CA	1.51	1.23
1:G:792:ALA:CB	3:I:42:THR:CA	2.14	1.23
1:M:646:PHE:CE2	1:M:652:LEU:HD11	1.73	1.23
4:3:322:PRO:HB3	4:5:244:ASP:OD2	1.39	1.23
1:D:646:PHE:CE2	1:D:652:LEU:HD11	1.73	1.23
1:D:733:PRO:O	1:D:737:PHE:HD1	0.93	1.23
1:G:817:GLN:OE1	2:H:127:ARG:CD	1.87	1.23
1:J:710:GLY:CA	1:J:772:LEU:CD2	1.92	1.23
1:P:646:PHE:CE2	1:P:652:LEU:HD11	1.73	1.23
4:8:322:PRO:CB	4:V:244:ASP:OD2	1.86	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:325:MET:SD	4:X:244:ASP:HB2	1.77	1.23
1:G:813:ILE:CG2	2:H:128:PHE:CE1	2.21	1.23
1:G:831:TRP:HE1	2:H:67:MET:CB	1.51	1.23
1:J:721:LYS:HG2	1:J:736:GLN:OE1	1.29	1.23
1:P:538:GLU:O	4:1:349:LEU:HD11	1.35	1.23
1:J:721:LYS:CG	1:J:736:GLN:OE1	1.83	1.23
1:M:733:PRO:O	1:M:737:PHE:HD1	0.92	1.23
1:M:797:PHE:CE1	3:O:146:ILE:CD1	2.16	1.23
4:2:288:ASP:OD2	4:4:203:THR:HG21	1.32	1.23
1:J:646:PHE:CE2	1:J:652:LEU:HD11	1.73	1.22
1:A:534:SER:O	4:8:351:THR:CB	1.87	1.22
1:D:629:GLU:CA	1:D:643:GLY:O	1.87	1.22
1:D:727:LEU:CD1	1:D:782:MLY:CG	2.16	1.22
1:G:646:PHE:CE2	1:G:652:LEU:HD11	1.73	1.22
1:J:629:GLU:CA	1:J:643:GLY:O	1.87	1.22
1:M:641:LYS:CG	1:M:647:GLN:CG	2.16	1.22
1:M:831:TRP:CZ2	2:N:47:LEU:HD21	1.73	1.22
1:P:534:SER:O	4:1:351:THR:CB	1.87	1.22
1:P:629:GLU:CA	1:P:643:GLY:O	1.87	1.22
4:9:322:PRO:CB	4:W:244:ASP:OD2	1.86	1.22
1:A:149:GLN:HB3	1:A:719:ASP:N	1.54	1.22
1:A:707:CYS:CA	1:A:714:ARG:NH1	2.02	1.22
1:D:215:GLN:N	1:D:340:ILE:CG1	2.02	1.22
1:D:799:MET:SD	3:F:32:ASP:HB3	1.79	1.22
1:G:783:LEU:O	1:G:787:ILE:N	1.71	1.22
1:J:534:SER:O	4:W:351:THR:CB	1.87	1.22
1:M:829:TRP:HZ3	2:N:84:PHE:CZ	1.57	1.22
1:P:215:GLN:N	1:P:340:ILE:CG1	2.02	1.22
1:A:646:PHE:CE2	1:A:652:LEU:HD11	1.73	1.22
1:G:557:GLU:CB	4:X:46:GLY:O	1.86	1.22
1:M:820:VAL:HG11	2:N:136:MET:CE	1.69	1.22
1:P:818:TYR:CZ	2:Q:127:ARG:NH2	2.05	1.22
4:7:322:PRO:CB	4:9:244:ASP:OD2	1.86	1.22
1:D:538:GLU:O	4:9:349:LEU:HD11	1.35	1.22
1:J:84:MLY:HH11	1:J:720:PHE:CE1	1.74	1.22
1:J:215:GLN:N	1:J:340:ILE:HG12	1.20	1.22
1:P:834:LEU:CD1	2:Q:51:PHE:CE1	2.21	1.22
1:A:757:GLN:CD	1:A:771:LEU:CD1	2.14	1.21
1:D:641:LYS:CG	1:D:647:GLN:HG3	1.71	1.21
1:G:831:TRP:NE1	2:H:67:MET:HB3	1.53	1.21
4:1:287:ILE:CG2	4:3:203:THR:HG22	1.69	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:322:PRO:HB2	4:V:244:ASP:OD2	1.39	1.21
1:A:499:GLU:OE1	1:A:766:PHE:CZ	1.91	1.21
1:A:629:GLU:CA	1:A:643:GLY:O	1.87	1.21
1:D:534:SER:O	4:9:351:THR:CB	1.88	1.21
1:G:215:GLN:N	1:G:340:ILE:CG1	2.02	1.21
1:G:819:ASN:ND2	2:H:92:ASP:HB2	1.55	1.21
1:P:786:ILE:CB	1:P:787:ILE:N	2.03	1.21
1:A:95:THR:OG1	1:A:769:ALA:CA	1.88	1.21
1:A:215:GLN:N	1:A:340:ILE:CG1	2.02	1.21
1:D:641:LYS:CG	1:D:647:GLN:CG	2.15	1.21
2:E:144:VAL:CG1	2:E:153:ILE:HD11	1.64	1.21
1:G:567:LYS:NZ	4:X:92:ASN:ND2	1.87	1.21
1:P:641:LYS:CG	1:P:647:GLN:HG3	1.71	1.21
1:P:786:ILE:HB	1:P:787:ILE:N	1.56	1.21
4:X:286:ASP:OD1	4:Z:202:THR:HB	1.05	1.21
1:J:215:GLN:N	1:J:340:ILE:CG1	2.02	1.21
2:K:117:LEU:HD12	2:K:147:ASN:OD1	1.32	1.21
2:K:144:VAL:CG1	2:K:153:ILE:HD11	1.65	1.21
1:M:534:SER:O	4:Z:351:THR:CB	1.88	1.21
1:M:552:ASN:ND2	4:2:47:MET:HB3	1.54	1.21
1:P:796:GLY:HA2	3:R:35:ARG:CD	1.70	1.21
4:1:202:THR:HB	4:Y:286:ASP:OD1	1.06	1.21
1:A:721:LYS:CG	1:A:736:GLN:OE1	1.82	1.21
1:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.21
1:M:215:GLN:N	1:M:340:ILE:CG1	2.02	1.21
1:M:629:GLU:CA	1:M:643:GLY:O	1.87	1.21
1:M:819:ASN:HA	2:N:90:GLY:O	1.38	1.21
1:P:506:GLU:OE2	1:P:764:MLY:HG3	1.36	1.21
1:P:821:ARG:NH2	2:Q:127:ARG:HG2	1.57	1.21
4:1:247:VAL:CG2	4:Y:324:THR:CG2	2.16	1.21
4:1:290:ARG:NH2	4:3:202:THR:CG2	2.04	1.21
1:J:829:TRP:HZ3	2:K:84:PHE:CZ	1.55	1.20
1:P:804:ARG:HA	1:P:807:VAL:CG1	1.69	1.20
4:1:202:THR:HB	4:Y:286:ASP:CG	1.46	1.20
1:D:792:ALA:HB2	3:F:42:THR:CG2	1.70	1.20
1:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.20
1:M:641:LYS:CG	1:M:647:GLN:HG3	1.71	1.20
1:P:641:LYS:CG	1:P:647:GLN:CG	2.16	1.20
1:P:795:ARG:HH21	3:R:116:GLU:CB	1.54	1.20
1:P:795:ARG:CZ	3:R:116:GLU:CD	2.14	1.20
1:A:641:LYS:CG	1:A:647:GLN:HG3	1.71	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:84:MLY:CH1	1:J:720:PHE:CD1	2.23	1.20
1:M:548:THR:N	4:2:46:GLY:O	1.57	1.20
2:N:117:LEU:CD1	2:N:147:ASN:CB	2.19	1.20
1:P:797:PHE:CE2	3:R:126:LEU:CD2	2.23	1.20
1:P:829:TRP:CZ2	2:Q:83:MET:CE	2.20	1.20
4:9:322:PRO:HB2	4:W:244:ASP:OD2	1.39	1.20
1:A:505:MLY:HG3	1:A:741:LYS:NZ	1.52	1.20
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.20
2:K:117:LEU:CD1	2:K:147:ASN:CB	2.19	1.20
1:P:795:ARG:NH2	3:R:116:GLU:HG2	1.46	1.20
4:1:244:ASP:OD2	4:Y:325:MET:SD	1.99	1.20
4:7:322:PRO:HB2	4:9:244:ASP:OD2	1.39	1.20
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	1.20
1:G:754:ASP:OD2	1:G:779:ARG:HB2	1.29	1.20
1:G:755:HIS:ND1	1:G:779:ARG:NH1	1.87	1.20
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	1.20
1:J:641:LYS:CG	1:J:647:GLN:HG3	1.71	1.20
1:M:804:ARG:O	1:M:808:GLU:CA	1.88	1.20
1:M:820:VAL:CG1	2:N:136:MET:HE1	1.71	1.20
1:D:215:GLN:N	1:D:340:ILE:HG12	1.20	1.19
1:D:795:ARG:HD3	3:F:43:ASN:OD1	1.33	1.19
1:G:534:SER:O	4:V:351:THR:CB	1.89	1.19
1:G:629:GLU:CA	1:G:643:GLY:O	1.87	1.19
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	1.19
1:J:538:GLU:O	4:W:349:LEU:HD11	1.35	1.19
1:J:829:TRP:CZ2	2:K:83:MET:HE3	1.74	1.19
1:M:834:LEU:CD1	2:N:51:PHE:CE1	2.24	1.19
1:P:817:GLN:CD	2:Q:127:ARG:HD2	1.67	1.19
1:P:831:TRP:CZ2	2:Q:47:LEU:HD21	1.78	1.19
4:2:287:ILE:CG1	4:4:202:THR:CA	2.20	1.19
1:D:831:TRP:CE2	2:E:51:PHE:CZ	2.29	1.19
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	1.19
1:M:818:TYR:CE1	2:N:127:ARG:NH1	2.10	1.19
1:A:538:GLU:OE2	4:8:355:MET:CE	1.91	1.19
2:Q:117:LEU:CD1	2:Q:147:ASN:CB	2.19	1.19
1:D:724:TYR:CA	1:D:782:MLY:CD	2.05	1.19
1:D:726:VAL:CG1	1:D:785:GLU:CG	2.20	1.19
1:G:754:ASP:CA	1:G:779:ARG:CD	1.99	1.19
1:G:817:GLN:CD	2:H:127:ARG:CD	2.14	1.19
1:P:538:GLU:OE2	4:1:355:MET:CE	1.90	1.19
1:P:804:ARG:CG	1:P:808:GLU:HG3	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:817:GLN:CD	2:Q:127:ARG:HB2	1.67	1.19
1:D:553:MLY:CE	4:W:45:VAL:HA	1.52	1.19
1:D:792:ALA:CB	3:F:42:THR:HG22	1.71	1.19
1:G:553:MLY:HG3	4:X:45:VAL:O	1.01	1.19
1:J:639:GLY:CA	4:W:345:ILE:HA	1.73	1.19
1:J:721:LYS:HA	1:J:736:GLN:NE2	1.58	1.19
1:M:538:GLU:OE2	4:Z:355:MET:CE	1.90	1.19
1:M:797:PHE:CZ	3:O:126:LEU:HD22	1.77	1.19
1:P:829:TRP:CH2	2:Q:83:MET:HE3	1.77	1.19
1:A:721:LYS:HG3	1:A:736:GLN:HG2	1.25	1.18
1:A:721:LYS:HA	1:A:736:GLN:NE2	1.58	1.18
1:A:754:ASP:OD2	1:A:778:MET:CE	1.91	1.18
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.39	1.18
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.18
1:G:752:ASP:OD1	1:G:780:ASP:O	1.57	1.18
1:G:757:GLN:HG2	1:G:776:GLU:OE2	1.42	1.18
1:J:538:GLU:OE2	4:W:355:MET:CE	1.90	1.18
4:2:203:THR:HG21	4:Z:288:ASP:CG	1.68	1.18
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	1.18
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.18
1:D:797:PHE:CG	3:F:146:ILE:HG23	1.77	1.18
1:J:641:LYS:CB	1:J:647:GLN:NE2	2.07	1.18
1:P:641:LYS:HD2	1:P:647:GLN:NE2	1.59	1.18
1:P:818:TYR:CE1	2:Q:127:ARG:CZ	2.26	1.18
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.53	1.18
1:A:735:GLY:O	1:A:743:ALA:CB	1.91	1.18
1:G:538:GLU:OE2	4:V:355:MET:CE	1.90	1.18
1:J:641:LYS:CD	1:J:647:GLN:NE2	1.99	1.18
1:M:723:ARG:CD	1:M:776:GLU:OE2	1.90	1.18
1:P:639:GLY:CA	4:1:345:ILE:HA	1.74	1.18
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.18
1:D:201:ALA:O	1:D:202:SER:HB3	1.36	1.18
1:G:721:LYS:HA	1:G:736:GLN:NE2	1.58	1.18
1:P:735:GLY:O	1:P:743:ALA:CB	1.91	1.18
1:G:752:ASP:CG	1:G:780:ASP:O	1.86	1.18
1:M:541:MET:C	4:Z:143:TYR:OH	1.87	1.18
1:P:641:LYS:CB	1:P:647:GLN:NE2	2.07	1.18
4:1:290:ARG:HH21	4:3:202:THR:HG21	1.05	1.18
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.17
1:D:541:MET:C	4:9:143:TYR:OH	1.87	1.17
1:G:553:MLY:CE	4:X:45:VAL:CB	2.22	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:829:TRP:CZ3	2:N:84:PHE:CZ	2.31	1.17
4:8:290:ARG:NH2	4:V:202:THR:HG23	1.59	1.17
1:A:557:GLU:H	4:V:48:GLY:CA	1.56	1.17
1:A:757:GLN:HB3	1:A:771:LEU:CD2	1.74	1.17
1:A:757:GLN:CB	1:A:771:LEU:HD21	1.74	1.17
1:D:641:LYS:CB	1:D:647:GLN:NE2	2.07	1.17
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.17
1:G:538:GLU:HA	4:V:349:LEU:CD1	1.55	1.17
1:G:641:LYS:CB	1:G:647:GLN:NE2	2.07	1.17
1:G:792:ALA:CB	3:I:42:THR:HA	1.71	1.17
1:M:538:GLU:HA	4:Z:349:LEU:CD1	1.55	1.17
1:M:641:LYS:CB	1:M:647:GLN:NE2	2.07	1.17
1:A:641:LYS:CB	1:A:647:GLN:NE2	2.07	1.17
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.17
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.17
1:J:94:MET:C	1:J:713:SER:HB3	1.68	1.17
1:J:641:LYS:HD2	1:J:647:GLN:NE2	1.59	1.17
1:M:641:LYS:HD2	1:M:647:GLN:NE2	1.59	1.17
1:P:546:THR:CG2	4:3:46:GLY:C	2.16	1.17
1:P:641:LYS:CD	1:P:647:GLN:NE2	1.99	1.17
1:P:817:GLN:NE2	2:Q:127:ARG:HB2	1.60	1.17
1:D:831:TRP:CD1	2:E:51:PHE:HZ	1.61	1.17
1:G:553:MLY:HE2	4:X:45:VAL:CB	1.75	1.17
1:M:795:ARG:CA	3:O:118:MET:HE1	1.74	1.17
1:A:553:MLY:CE	4:V:45:VAL:HA	1.52	1.17
1:G:553:MLY:CE	4:X:45:VAL:HG12	1.69	1.17
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.17
1:G:641:LYS:HD2	1:G:647:GLN:NE2	1.58	1.17
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.41	1.17
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.17
1:J:639:GLY:HA2	4:W:345:ILE:HA	1.26	1.17
1:J:768:MLY:HH11	1:J:772:LEU:HD12	1.25	1.17
1:M:817:GLN:OE1	2:N:127:ARG:HD2	1.45	1.17
3:O:48:LYS:C	3:O:52:ASN:ND2	2.03	1.17
2:Q:121:LEU:C	2:Q:128:PHE:HB2	1.67	1.17
1:A:538:GLU:OE2	4:8:355:MET:HE1	1.45	1.16
1:A:641:LYS:CE	4:8:348:SER:O	1.93	1.16
1:G:215:GLN:HA	1:G:340:ILE:CG2	1.76	1.16
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	1.16
1:M:641:LYS:CD	1:M:647:GLN:NE2	1.99	1.16
1:M:641:LYS:CE	4:Z:348:SER:O	1.93	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:201:ALA:O	1:P:202:SER:HB3	1.36	1.16
1:P:215:GLN:N	1:P:340:ILE:HG12	1.20	1.16
2:Q:117:LEU:HB2	2:Q:147:ASN:CG	1.70	1.16
1:A:541:MET:C	4:8:143:TYR:OH	1.87	1.16
1:A:640:LYS:HB3	1:A:645:SER:OG	1.46	1.16
1:A:641:LYS:CE	1:A:647:GLN:CD	2.18	1.16
1:A:739:ASP:HB3	1:A:742:LYS:HB3	1.22	1.16
1:D:538:GLU:C	4:9:349:LEU:HD11	1.54	1.16
1:D:727:LEU:HD12	1:D:782:MLY:HD3	1.24	1.16
1:G:541:MET:C	4:V:143:TYR:OH	1.87	1.16
1:G:641:LYS:CE	4:V:348:SER:O	1.93	1.16
1:J:801:VAL:HG21	3:L:126:LEU:CD2	1.76	1.16
1:M:215:GLN:HA	1:M:340:ILE:CG2	1.76	1.16
1:M:721:LYS:HA	1:M:736:GLN:NE2	1.59	1.16
1:M:795:ARG:HD2	3:O:43:ASN:OD1	1.19	1.16
2:N:121:LEU:C	2:N:128:PHE:HB2	1.67	1.16
1:P:641:LYS:CE	4:1:348:SER:O	1.93	1.16
3:R:48:LYS:C	3:R:52:ASN:ND2	2.03	1.16
4:9:290:ARG:NH2	4:W:202:THR:HG23	1.59	1.16
1:A:215:GLN:HA	1:A:340:ILE:CG2	1.76	1.16
1:A:649:VAL:HA	1:A:649:VAL:CG2	1.76	1.16
1:D:727:LEU:HD11	1:D:782:MLY:CG	1.71	1.16
1:G:721:LYS:HG3	1:G:736:GLN:HG2	1.25	1.16
1:G:832:MET:SD	2:H:84:PHE:HE2	1.68	1.16
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.16
2:N:117:LEU:HD12	2:N:147:ASN:OD1	1.33	1.16
1:P:541:MET:C	4:1:143:TYR:OH	1.87	1.16
4:X:291:LYS:CD	4:Z:244:ASP:N	2.07	1.16
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	1.16
1:G:557:GLU:CA	4:X:48:GLY:N	1.99	1.16
1:G:649:VAL:HA	1:G:649:VAL:CG2	1.76	1.16
1:G:817:GLN:OE1	2:H:127:ARG:HD2	1.01	1.16
1:J:541:MET:C	4:W:143:TYR:OH	1.87	1.16
1:M:786:ILE:HG23	1:M:787:ILE:N	1.59	1.16
2:N:117:LEU:HB2	2:N:147:ASN:CG	1.71	1.16
2:Q:117:LEU:CD1	2:Q:147:ASN:HB3	1.76	1.16
1:A:538:GLU:HA	4:8:349:LEU:CD1	1.54	1.16
1:A:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.16
1:D:215:GLN:HA	1:D:340:ILE:CG2	1.76	1.16
1:D:747:LEU:HD13	1:D:782:MLY:HH21	1.25	1.16
1:D:813:ILE:CG2	2:E:128:PHE:CZ	2.29	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:149:GLN:HG2	1:G:763:THR:CG2	1.61	1.16
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	1.16
2:H:117:LEU:CD1	2:H:147:ASN:HB3	1.76	1.16
1:J:817:GLN:CD	2:K:127:ARG:HD2	1.69	1.16
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.25	1.16
1:P:639:GLY:HA3	4:1:344:SER:O	1.46	1.16
1:P:641:LYS:CE	1:P:647:GLN:CD	2.18	1.16
1:P:721:LYS:HA	1:P:736:GLN:NE2	1.59	1.16
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.15
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.59	1.15
1:D:823:PHE:CD1	2:E:160:GLY:HA2	1.80	1.15
1:G:640:LYS:HB3	1:G:645:SER:OG	1.46	1.15
1:G:819:ASN:HA	2:H:90:GLY:O	1.02	1.15
1:J:94:MET:O	1:J:713:SER:CB	1.92	1.15
1:J:642:LYS:CG	4:W:23:GLY:N	2.08	1.15
1:M:786:ILE:HG22	1:M:787:ILE:HB	1.26	1.15
1:D:721:LYS:HG3	1:D:736:GLN:HG2	1.25	1.15
1:D:732:ILE:HG21	1:D:782:MLY:CH2	1.77	1.15
1:G:817:GLN:NE2	2:H:127:ARG:HB2	1.59	1.15
1:J:735:GLY:O	1:J:743:ALA:CB	1.91	1.15
1:J:739:ASP:HB3	1:J:742:LYS:HB3	1.21	1.15
1:M:538:GLU:O	4:Z:349:LEU:HD11	1.35	1.15
1:P:838:ILE:CD1	2:Q:54:MET:CE	1.85	1.15
4:X:325:MET:SD	4:Z:244:ASP:OD2	2.04	1.15
1:A:201:ALA:O	1:A:202:SER:HB3	1.36	1.15
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.15
1:D:641:LYS:CE	4:9:348:SER:O	1.93	1.15
1:G:557:GLU:HB3	4:X:46:GLY:O	0.99	1.15
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.71	1.15
1:J:201:ALA:O	1:J:202:SER:HB3	1.35	1.15
1:M:642:LYS:CG	4:Z:23:GLY:N	2.08	1.15
1:M:649:VAL:HA	1:M:649:VAL:CG2	1.76	1.15
1:M:709:LYS:C	1:M:710:GLY:N	2.04	1.15
1:P:201:ALA:O	1:P:202:SER:CB	1.92	1.15
1:P:640:LYS:HB3	1:P:645:SER:OG	1.45	1.15
2:Q:117:LEU:HD12	2:Q:147:ASN:OD1	1.32	1.15
4:2:203:THR:CG2	4:Z:287:ILE:HB	1.77	1.15
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.44	1.15
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.15
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.15
1:D:642:LYS:CG	4:9:23:GLY:N	2.08	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:712:PRO:HG2	1:D:771:LEU:HB2	1.19	1.15
1:G:642:LYS:CG	4:V:23:GLY:N	2.08	1.15
1:G:795:ARG:HB2	3:I:35:ARG:NH1	1.60	1.15
2:K:111:SER:CB	2:K:148:VAL:C	1.93	1.15
1:M:641:LYS:CE	1:M:647:GLN:CD	2.18	1.15
1:P:538:GLU:OE2	4:1:355:MET:HE1	1.44	1.15
4:7:290:ARG:NH2	4:9:202:THR:HG23	1.59	1.15
1:A:642:LYS:CG	4:8:23:GLY:N	2.09	1.15
1:D:542:PHE:HA	4:9:143:TYR:CE1	1.82	1.15
1:D:818:TYR:CG	2:E:90:GLY:HA3	1.82	1.15
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.71	1.15
1:G:639:GLY:CA	4:V:345:ILE:HA	1.73	1.15
1:J:542:PHE:HA	4:W:143:TYR:CE1	1.82	1.15
1:J:641:LYS:CE	4:W:348:SER:O	1.93	1.15
1:P:797:PHE:CE2	3:R:146:ILE:HD12	1.82	1.15
2:Q:111:SER:CA	2:Q:148:VAL:O	1.95	1.15
1:A:641:LYS:NZ	4:8:348:SER:O	1.80	1.14
1:D:639:GLY:HA3	4:9:344:SER:O	1.47	1.14
1:D:726:VAL:CG1	1:D:785:GLU:CB	2.25	1.14
1:D:795:ARG:HH21	3:F:116:GLU:CB	1.57	1.14
2:E:111:SER:CA	2:E:148:VAL:O	1.95	1.14
1:G:542:PHE:HA	4:V:143:TYR:CE1	1.82	1.14
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.14
1:J:538:GLU:OE2	4:W:355:MET:HE1	1.44	1.14
1:J:798:LEU:HD11	3:L:126:LEU:HD13	1.19	1.14
1:P:215:GLN:HA	1:P:340:ILE:CG2	1.75	1.14
1:P:642:LYS:CG	4:1:23:GLY:N	2.08	1.14
1:P:792:ALA:HB2	3:R:42:THR:CB	1.75	1.14
4:4:322:PRO:HB3	4:6:244:ASP:CG	1.72	1.14
4:V:325:MET:SD	4:X:244:ASP:CB	2.33	1.14
4:W:325:MET:SD	4:Y:244:ASP:CB	2.35	1.14
4:X:291:LYS:HE3	4:Z:243:PRO:HB3	1.23	1.14
1:D:201:ALA:O	1:D:202:SER:CB	1.92	1.14
2:E:117:LEU:CD1	2:E:147:ASN:HB3	1.76	1.14
1:G:769:ALA:HB3	1:G:770:GLY:CA	1.77	1.14
1:J:215:GLN:HA	1:J:340:ILE:CG2	1.76	1.14
1:J:639:GLY:HA3	4:W:344:SER:O	1.46	1.14
1:J:641:LYS:CE	1:J:647:GLN:CD	2.18	1.14
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	1.14
1:M:795:ARG:CZ	3:O:116:GLU:CD	2.19	1.14
1:A:641:LYS:HG3	1:A:647:GLN:HG3	1.21	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:201:ALA:O	1:G:202:SER:CB	1.92	1.14
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.14
1:G:817:GLN:HG2	2:H:127:ARG:CB	1.77	1.14
2:H:111:SER:CA	2:H:148:VAL:O	1.95	1.14
2:H:112:ILE:O	2:H:147:ASN:O	1.65	1.14
1:J:640:LYS:HB3	1:J:645:SER:OG	1.45	1.14
1:M:721:LYS:CG	1:M:736:GLN:CG	1.97	1.14
1:M:838:ILE:CD1	2:N:54:MET:CE	1.78	1.14
2:Q:112:ILE:O	2:Q:147:ASN:O	1.65	1.14
1:D:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.14
1:D:649:VAL:HA	1:D:649:VAL:CG2	1.76	1.14
1:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.14
1:J:649:VAL:HA	1:J:649:VAL:CG2	1.76	1.14
2:K:117:LEU:CD1	2:K:147:ASN:HB3	1.76	1.14
2:K:121:LEU:CA	2:K:128:PHE:HB3	1.78	1.14
1:M:635:GLY:HA2	4:Z:334:GLU:HG2	1.16	1.14
1:P:538:GLU:C	4:1:349:LEU:HD11	1.54	1.14
4:3:290:ARG:NH2	4:5:202:THR:HG23	1.41	1.14
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.14
1:D:639:GLY:CA	4:9:345:ILE:HA	1.73	1.14
1:D:649:VAL:HG22	1:D:649:VAL:HG13	1.21	1.14
1:D:735:GLY:O	1:D:743:ALA:CB	1.91	1.14
2:E:121:LEU:CA	2:E:128:PHE:HB3	1.78	1.14
1:G:84:MLY:HH22	1:G:719:ASP:O	1.44	1.14
1:G:639:GLY:HA3	4:V:344:SER:O	1.47	1.14
2:H:121:LEU:CA	2:H:128:PHE:HB3	1.77	1.14
1:J:95:THR:HA	1:J:713:SER:CB	1.78	1.14
1:M:542:PHE:HA	4:Z:143:TYR:CE1	1.82	1.14
1:P:721:LYS:HA	1:P:736:GLN:CD	1.73	1.14
4:8:287:ILE:HG21	4:V:205:GLU:HG2	1.17	1.14
2:H:117:LEU:HD12	2:H:147:ASN:OD1	1.32	1.13
1:J:721:LYS:HG3	1:J:736:GLN:HG2	1.25	1.13
1:J:819:ASN:ND2	2:K:92:ASP:CB	2.02	1.13
1:J:829:TRP:CH2	2:K:84:PHE:CE1	2.36	1.13
1:M:95:THR:OG1	1:M:770:GLY:N	1.80	1.13
1:M:735:GLY:O	1:M:743:ALA:CB	1.91	1.13
2:N:121:LEU:CA	2:N:128:PHE:HB3	1.78	1.13
1:P:542:PHE:HA	4:1:143:TYR:CE1	1.82	1.13
1:P:724:TYR:CE1	1:P:775:LEU:HB3	1.81	1.13
1:P:819:ASN:HA	2:Q:90:GLY:O	1.45	1.13
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ASN:OD1	1:D:649:VAL:CB	1.96	1.13
1:G:599:ASN:OD1	1:G:649:VAL:CB	1.96	1.13
1:G:819:ASN:CG	2:H:90:GLY:O	1.91	1.13
1:J:84:MLY:NZ	1:J:724:TYR:CD2	2.16	1.13
1:J:792:ALA:CA	3:L:42:THR:HG22	1.78	1.13
1:M:721:LYS:HA	1:M:736:GLN:CD	1.73	1.13
2:N:112:ILE:O	2:N:147:ASN:O	1.65	1.13
1:P:599:ASN:OD1	1:P:649:VAL:CB	1.96	1.13
1:A:635:GLY:HA2	4:8:334:GLU:HG2	1.16	1.13
1:G:93:MET:HE1	1:G:764:MLY:HD2	1.15	1.13
1:G:800:ARG:NH2	3:I:40:ASN:OD1	1.81	1.13
1:J:599:ASN:OD1	1:J:649:VAL:CB	1.96	1.13
1:M:599:ASN:OD1	1:M:649:VAL:CB	1.96	1.13
1:M:641:LYS:HD2	1:M:647:GLN:CD	1.70	1.13
1:M:829:TRP:CH2	2:N:83:MET:HE3	1.84	1.13
2:N:117:LEU:CD1	2:N:147:ASN:HB3	1.75	1.13
1:P:797:PHE:CZ	3:R:146:ILE:HD13	1.74	1.13
4:X:324:THR:CG2	4:Z:247:VAL:CG2	2.26	1.13
1:A:502:GLU:CA	1:A:761:GLY:CA	2.26	1.13
1:A:599:ASN:OD1	1:A:649:VAL:CB	1.96	1.13
1:A:639:GLY:HA3	4:8:344:SER:O	1.47	1.13
1:D:641:LYS:NZ	4:9:348:SER:O	1.80	1.13
1:D:727:LEU:CD1	1:D:782:MLY:HH12	1.79	1.13
1:G:553:MLY:CE	4:X:45:VAL:HG11	1.53	1.13
1:G:791:GLN:OE1	3:I:116:GLU:HG3	1.49	1.13
1:G:819:ASN:CG	2:H:92:ASP:HB2	1.73	1.13
1:J:710:GLY:C	1:J:772:LEU:CD2	2.22	1.13
2:K:111:SER:CA	2:K:148:VAL:O	1.95	1.13
1:M:640:LYS:HB3	1:M:645:SER:OG	1.45	1.13
1:P:795:ARG:HE	3:R:116:GLU:CB	1.60	1.13
1:P:829:TRP:HZ3	2:Q:84:PHE:CZ	1.67	1.13
4:2:202:THR:CB	4:Z:287:ILE:CG2	2.10	1.13
1:A:639:GLY:HA2	4:8:345:ILE:HA	1.26	1.13
1:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	1.12
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.13
1:M:641:LYS:CE	1:M:647:GLN:OE1	1.97	1.13
1:M:829:TRP:CZ2	2:N:83:MET:CE	2.26	1.13
1:P:95:THR:CG2	1:P:770:GLY:HA2	1.71	1.12
1:P:641:LYS:NZ	4:1:348:SER:O	1.80	1.13
1:A:757:GLN:CD	1:A:771:LEU:HD11	1.74	1.12
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:TYR:CB	1:D:782:MLY:HD3	1.79	1.12
2:Q:121:LEU:CA	2:Q:128:PHE:HB3	1.78	1.12
1:A:752:ASP:CG	1:A:782:MLY:HD3	1.73	1.12
1:G:834:LEU:CD1	2:H:51:PHE:CE1	2.33	1.12
1:P:218:LEU:HB2	1:P:221:GLN:HG3	1.17	1.12
1:P:649:VAL:CG2	1:P:649:VAL:HA	1.76	1.12
1:A:538:GLU:O	4:8:349:LEU:HD11	1.35	1.12
1:D:739:ASP:HB3	1:D:742:LYS:HB3	1.21	1.12
1:D:795:ARG:HB3	3:F:35:ARG:NH1	1.64	1.12
1:G:641:LYS:CE	1:G:647:GLN:OE1	1.97	1.12
1:G:730:SER:CB	3:I:113:THR:HG21	1.79	1.12
1:J:641:LYS:CE	1:J:647:GLN:OE1	1.97	1.12
1:J:641:LYS:NZ	4:W:348:SER:O	1.80	1.12
1:M:639:GLY:CA	4:Z:345:ILE:HA	1.73	1.12
1:M:639:GLY:HA3	4:Z:344:SER:O	1.46	1.12
1:P:546:THR:OG1	4:3:46:GLY:N	1.78	1.12
1:D:813:ILE:CG2	2:E:128:PHE:CE1	2.32	1.12
2:E:117:LEU:HD12	2:E:147:ASN:OD1	1.32	1.12
1:G:641:LYS:HG3	1:G:647:GLN:HG3	1.21	1.12
1:G:641:LYS:NZ	4:V:348:SER:O	1.80	1.12
1:J:649:VAL:HG22	1:J:649:VAL:HG13	1.21	1.12
1:M:201:ALA:O	1:M:202:SER:HB3	1.36	1.12
1:M:538:GLU:OE2	4:Z:355:MET:HE1	1.44	1.12
1:M:649:VAL:HG22	1:M:649:VAL:HG13	1.21	1.12
2:N:111:SER:CB	2:N:148:VAL:C	1.92	1.12
1:P:817:GLN:CG	2:Q:127:ARG:HB2	1.76	1.12
4:4:287:ILE:HD13	4:6:203:THR:HB	1.22	1.12
1:A:641:LYS:CE	1:A:647:GLN:OE1	1.97	1.12
2:H:121:LEU:O	2:H:128:PHE:HB2	0.94	1.12
1:J:756:THR:HG22	1:J:776:GLU:CD	1.74	1.12
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.12
1:M:201:ALA:O	1:M:202:SER:CB	1.92	1.12
1:M:639:GLY:HA2	4:Z:345:ILE:HA	1.26	1.12
1:M:721:LYS:HG3	1:M:736:GLN:HG2	1.25	1.12
1:M:818:TYR:CE1	2:N:127:ARG:CZ	2.33	1.12
1:M:818:TYR:CE1	2:N:127:ARG:NH2	2.18	1.12
1:P:641:LYS:HD2	1:P:647:GLN:CD	1.70	1.12
1:P:641:LYS:CE	1:P:647:GLN:OE1	1.97	1.12
1:P:709:LYS:N	1:P:710:GLY:N	1.98	1.12
1:P:783:LEU:HA	1:P:786:ILE:CG1	1.77	1.12
1:P:817:GLN:HG2	2:Q:127:ARG:HB3	1.30	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:818:TYR:CE1	2:Q:127:ARG:NH1	2.18	1.12
1:P:819:ASN:ND2	2:Q:92:ASP:HB2	0.79	1.12
4:2:287:ILE:HG23	4:4:202:THR:OG1	1.48	1.12
2:E:112:ILE:O	2:E:147:ASN:O	1.65	1.11
1:G:508:ILE:HD11	1:G:759:ALA:HB2	1.16	1.11
1:J:623:PHE:CG	1:J:623:PHE:CB	2.33	1.11
1:J:649:VAL:O	1:J:649:VAL:HG12	0.94	1.11
2:K:121:LEU:O	2:K:128:PHE:HB2	0.94	1.11
1:M:725:ARG:NH1	3:O:93:VAL:HG21	1.65	1.11
2:N:111:SER:CA	2:N:148:VAL:O	1.95	1.11
1:P:838:ILE:HD12	2:Q:54:MET:HE3	1.32	1.11
2:Q:144:VAL:HG13	2:Q:153:ILE:HD11	1.22	1.11
4:1:243:PRO:HB3	4:Y:291:LYS:HE3	1.15	1.11
1:A:623:PHE:CB	1:A:623:PHE:CG	2.33	1.11
1:D:649:VAL:O	1:D:649:VAL:HG12	0.94	1.11
1:D:747:LEU:HD11	1:D:782:MLY:HH21	1.24	1.11
1:G:623:PHE:CB	1:G:623:PHE:CG	2.33	1.11
1:G:791:GLN:NE2	3:I:115:GLY:CA	2.11	1.11
1:J:756:THR:HG21	1:J:776:GLU:C	1.75	1.11
1:J:817:GLN:HB3	2:K:127:ARG:HH11	1.07	1.11
1:M:552:ASN:O	4:2:49:GLN:CB	1.83	1.11
1:M:623:PHE:CG	1:M:623:PHE:CB	2.33	1.11
1:M:838:ILE:CG1	2:N:54:MET:CE	2.26	1.11
4:9:290:ARG:CZ	4:W:202:THR:HG21	1.81	1.11
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.97	1.11
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.11
1:G:530:MET:CE	4:V:354:GLN:HG2	1.80	1.11
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	1.11
1:G:768:MLY:HH23	1:G:772:LEU:HD11	1.31	1.11
2:H:121:LEU:C	2:H:128:PHE:HB3	1.72	1.11
1:P:623:PHE:CG	1:P:623:PHE:CB	2.33	1.11
1:P:739:ASP:HB3	1:P:742:LYS:HB3	1.21	1.11
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.75	1.11
4:7:290:ARG:CZ	4:9:202:THR:HG21	1.81	1.11
4:W:324:THR:HG21	4:Y:246:GLN:C	1.61	1.11
1:A:502:GLU:HA	1:A:761:GLY:CA	1.81	1.11
1:D:831:TRP:NE1	2:E:51:PHE:HZ	1.37	1.11
1:G:201:ALA:O	1:G:202:SER:HB3	1.35	1.11
1:G:538:GLU:O	4:V:349:LEU:HD11	1.34	1.11
1:G:795:ARG:NE	3:I:116:GLU:HB3	1.65	1.11
1:J:557:GLU:HA	4:Y:47:MET:CA	1.47	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:HG3	1:J:647:GLN:HG3	1.20	1.11
2:E:121:LEU:O	2:E:128:PHE:HB2	0.94	1.11
1:G:93:MET:HA	1:G:714:ARG:H	0.94	1.11
1:G:93:MET:HE3	1:G:764:MLY:HD3	1.27	1.11
1:G:739:ASP:HB3	1:G:742:LYS:HB3	1.22	1.11
1:M:641:LYS:NZ	4:Z:348:SER:O	1.80	1.11
1:M:797:PHE:CE1	3:O:146:ILE:HG23	1.85	1.11
1:P:795:ARG:HH21	3:R:116:GLU:CG	1.49	1.11
3:R:24:LYS:CB	3:R:63:ILE:O	1.99	1.11
1:A:502:GLU:CB	1:A:761:GLY:HA3	1.53	1.10
1:D:641:LYS:CE	1:D:647:GLN:OE1	1.97	1.10
1:D:727:LEU:HB2	1:D:782:MLY:HH12	1.25	1.10
1:G:820:VAL:HG11	2:H:136:MET:HE1	1.27	1.10
2:H:111:SER:CB	2:H:148:VAL:C	1.93	1.10
1:J:826:VAL:HG21	2:K:88:LEU:HD21	1.16	1.10
3:L:24:LYS:CB	3:L:63:ILE:O	1.99	1.10
1:M:218:LEU:HB2	1:M:221:GLN:HG3	1.17	1.10
1:M:553:MLY:HG2	4:2:43:VAL:CG1	1.81	1.10
3:O:24:LYS:CB	3:O:63:ILE:O	1.99	1.10
1:P:641:LYS:HE3	1:P:647:GLN:OE1	1.50	1.10
4:2:202:THR:CA	4:Z:287:ILE:HG12	1.81	1.10
1:A:93:MET:HG2	1:A:715:VAL:HG22	1.25	1.10
1:D:791:GLN:NE2	3:F:115:GLY:CA	1.88	1.10
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.10
1:G:538:GLU:OE2	4:V:355:MET:HE1	1.44	1.10
1:G:707:CYS:SG	1:G:714:ARG:NH2	2.24	1.10
2:H:111:SER:HB3	2:H:148:VAL:O	1.49	1.10
1:J:505:MLY:CD	1:J:762:HIS:CE1	2.33	1.10
1:M:795:ARG:CB	3:O:118:MET:HE1	1.79	1.10
1:A:508:ILE:HD13	1:A:759:ALA:CB	1.60	1.10
1:A:639:GLY:CA	4:8:345:ILE:HA	1.74	1.10
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.10
1:D:202:SER:CA	1:D:207:LYS:HE2	1.82	1.10
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.10
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	1.10
1:G:218:LEU:HB2	1:G:221:GLN:HG3	1.17	1.10
1:G:734:GLU:O	1:G:738:MET:HG2	1.51	1.10
2:K:112:ILE:O	2:K:147:ASN:O	1.65	1.10
1:M:734:GLU:O	1:M:738:MET:HG2	1.51	1.10
1:P:649:VAL:O	1:P:649:VAL:HG12	0.94	1.10
4:8:290:ARG:CZ	4:V:202:THR:HG21	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:ALA:O	1:A:202:SER:CB	1.92	1.10
1:A:218:LEU:HB2	1:A:221:GLN:HG3	1.17	1.10
1:A:530:MET:CE	4:8:354:GLN:HG2	1.80	1.10
1:A:734:GLU:O	1:A:738:MET:HG2	1.51	1.10
1:D:797:PHE:HE1	3:F:146:ILE:HA	0.94	1.10
1:D:799:MET:SD	3:F:32:ASP:CB	2.39	1.10
2:N:121:LEU:O	2:N:128:PHE:HB2	0.94	1.10
1:P:649:VAL:HG22	1:P:649:VAL:HG13	1.21	1.10
1:P:734:GLU:O	1:P:738:MET:HG2	1.51	1.10
1:D:747:LEU:HD11	1:D:782:MLY:CH2	1.81	1.10
1:D:793:ARG:HH21	3:F:147:MET:CE	1.65	1.10
1:G:795:ARG:CB	3:I:35:ARG:HH12	1.65	1.10
1:J:84:MLY:NZ	1:J:724:TYR:HE2	1.22	1.10
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	1.10
1:J:797:PHE:CE2	3:L:126:LEU:HD22	1.86	1.10
1:M:767:PHE:CD1	1:M:771:LEU:HD22	1.86	1.10
1:M:838:ILE:HD12	2:N:54:MET:HE3	1.23	1.10
1:P:530:MET:CE	4:1:354:GLN:HG2	1.80	1.10
1:P:783:LEU:CA	1:P:786:ILE:HG13	1.81	1.10
1:D:623:PHE:CB	1:D:623:PHE:CG	2.33	1.09
3:I:24:LYS:CB	3:I:63:ILE:O	1.99	1.09
1:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.09
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	1.09
1:J:710:GLY:HA2	1:J:772:LEU:HD21	1.31	1.09
1:J:710:GLY:C	1:J:772:LEU:HD22	1.76	1.09
1:J:736:GLN:N	1:J:743:ALA:CB	2.05	1.09
1:M:538:GLU:CD	4:Z:355:MET:HE1	1.77	1.09
1:M:641:LYS:HE3	1:M:647:GLN:OE1	1.50	1.09
1:M:783:LEU:HA	1:M:786:ILE:CG1	1.82	1.09
1:P:639:GLY:HA2	4:1:345:ILE:HA	1.26	1.09
1:P:641:LYS:HG3	1:P:647:GLN:HG3	1.20	1.09
4:2:287:ILE:HD13	4:4:203:THR:HB	1.10	1.09
4:4:288:ASP:CG	4:6:203:THR:HG21	1.64	1.09
1:A:571:ALA:O	1:A:572:LYS:HG3	1.52	1.09
1:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.09
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	1.09
1:G:649:VAL:O	1:G:649:VAL:HG12	0.94	1.09
1:J:201:ALA:O	1:J:202:SER:CB	1.92	1.09
2:K:121:LEU:C	2:K:128:PHE:HB3	1.71	1.09
1:M:641:LYS:HE3	1:M:647:GLN:CD	1.77	1.09
1:M:739:ASP:HB3	1:M:742:LYS:HB3	1.21	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:804:ARG:HA	1:P:807:VAL:HG12	1.14	1.09
2:Q:121:LEU:O	2:Q:128:PHE:HB2	0.94	1.09
1:A:649:VAL:O	1:A:649:VAL:HG12	0.94	1.09
1:A:757:GLN:HB2	1:A:771:LEU:HD21	1.22	1.09
1:A:768:MLY:CG	1:A:771:LEU:HD13	1.82	1.09
1:D:641:LYS:HE3	1:D:647:GLN:OE1	1.50	1.09
1:G:641:LYS:HE3	1:G:647:GLN:OE1	1.50	1.09
1:G:795:ARG:HB2	3:I:35:ARG:HH12	0.99	1.09
1:J:95:THR:HA	1:J:713:SER:OG	1.52	1.09
1:M:202:SER:CA	1:M:207:LYS:HE2	1.82	1.09
1:M:530:MET:CE	4:Z:354:GLN:HG2	1.80	1.09
1:M:571:ALA:O	1:M:572:LYS:HG3	1.52	1.09
1:M:643:GLY:O	1:M:644:SER:OG	1.70	1.09
1:P:202:SER:CA	1:P:207:LYS:HE2	1.82	1.09
1:P:538:GLU:HA	4:1:349:LEU:CD1	1.55	1.09
1:A:538:GLU:CD	4:8:355:MET:HE1	1.78	1.09
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	1.09
1:D:734:GLU:O	1:D:738:MET:HG2	1.51	1.09
1:D:813:ILE:HD13	2:E:128:PHE:CE1	1.87	1.09
1:G:538:GLU:CD	4:V:355:MET:HE1	1.78	1.09
1:G:571:ALA:O	1:G:572:LYS:HG3	1.52	1.09
1:G:818:TYR:CE1	2:H:127:ARG:NH2	2.19	1.09
1:J:538:GLU:CD	4:W:355:MET:HE1	1.77	1.09
1:J:734:GLU:O	1:J:738:MET:HG2	1.51	1.09
1:J:800:ARG:NH2	3:L:40:ASN:OD1	1.85	1.09
1:J:829:TRP:CZ3	2:K:87:LYS:NZ	2.20	1.09
1:M:545:ALA:HA	4:2:45:VAL:HG13	1.25	1.09
1:M:649:VAL:O	1:M:649:VAL:HG12	0.94	1.09
1:P:721:LYS:HG3	1:P:736:GLN:HG2	1.25	1.09
1:P:818:TYR:OH	2:Q:127:ARG:NH2	1.80	1.09
2:Q:111:SER:CB	2:Q:148:VAL:C	1.93	1.09
2:Q:111:SER:HB3	2:Q:148:VAL:O	1.50	1.09
4:9:287:ILE:HG21	4:W:205:GLU:HG2	1.17	1.09
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	1.09
1:A:707:CYS:HA	1:A:714:ARG:NH1	1.09	1.09
1:D:726:VAL:HG12	1:D:785:GLU:CB	1.81	1.09
1:D:822:SER:OG	2:E:88:LEU:HD23	1.44	1.09
2:E:111:SER:HB3	2:E:148:VAL:O	1.50	1.09
1:J:530:MET:CE	4:W:354:GLN:HG2	1.81	1.09
1:M:723:ARG:HD3	1:M:776:GLU:OE2	1.47	1.09
1:M:783:LEU:HG	1:M:786:ILE:HD11	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:571:ALA:O	1:P:572:LYS:HG3	1.52	1.09
1:P:829:TRP:CZ3	2:Q:84:PHE:CZ	2.40	1.09
4:2:203:THR:HB	4:Z:287:ILE:HD13	1.09	1.09
1:A:149:GLN:CD	1:A:718:ALA:HB3	1.76	1.08
1:A:202:SER:CA	1:A:207:LYS:HE2	1.82	1.08
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	1.08
1:D:530:MET:CE	4:9:354:GLN:HG2	1.80	1.08
1:D:538:GLU:HA	4:9:349:LEU:CD1	1.55	1.08
1:G:643:GLY:O	1:G:644:SER:OG	1.70	1.08
1:G:649:VAL:HG22	1:G:649:VAL:HG13	1.21	1.08
1:G:797:PHE:CE1	3:I:146:ILE:HD12	1.86	1.08
1:J:639:GLY:HA3	4:W:344:SER:C	1.78	1.08
1:J:754:ASP:CB	1:J:780:ASP:OD2	1.82	1.08
1:J:757:GLN:HA	1:J:776:GLU:HG3	1.30	1.08
1:P:635:GLY:HA2	4:1:334:GLU:HG2	1.16	1.08
1:A:641:LYS:HE3	1:A:647:GLN:OE1	1.50	1.08
1:D:538:GLU:CD	4:9:355:MET:HE1	1.77	1.08
1:G:754:ASP:HA	1:G:779:ARG:NE	1.68	1.08
1:G:792:ALA:HB3	3:I:42:THR:HG22	1.34	1.08
1:G:829:TRP:CH2	2:H:83:MET:HE3	1.88	1.08
1:P:641:LYS:HE3	1:P:647:GLN:CD	1.77	1.08
4:3:288:ASP:H	4:5:203:THR:HG22	1.17	1.08
4:3:324:THR:CB	4:5:243:PRO:O	2.01	1.08
1:D:529:PRO:C	4:9:354:GLN:HB3	1.78	1.08
1:D:727:LEU:CD1	1:D:782:MLY:CE	2.22	1.08
1:G:202:SER:CA	1:G:207:LYS:HE2	1.82	1.08
2:H:121:LEU:HG	2:H:128:PHE:CA	1.60	1.08
1:J:529:PRO:C	4:W:354:GLN:HB3	1.77	1.08
1:J:538:GLU:HA	4:W:349:LEU:CD1	1.55	1.08
1:M:638:GLY:CA	4:Z:341:ILE:O	2.01	1.08
1:M:736:GLN:HA	1:M:743:ALA:HB3	1.35	1.08
1:M:736:GLN:N	1:M:743:ALA:CB	2.05	1.08
1:P:643:GLY:O	1:P:644:SER:OG	1.70	1.08
1:P:797:PHE:HE2	3:R:126:LEU:CD2	1.63	1.08
4:1:244:ASP:N	4:Y:291:LYS:HD2	1.66	1.08
1:A:638:GLY:CA	4:8:341:ILE:O	2.01	1.08
2:E:111:SER:CB	2:E:148:VAL:O	0.78	1.08
1:G:639:GLY:HA2	4:V:345:ILE:HA	1.26	1.08
1:G:817:GLN:CD	2:H:127:ARG:HB2	1.77	1.08
1:M:553:MLY:HG2	4:2:43:VAL:HG11	1.08	1.08
1:M:796:GLY:HA2	3:O:35:ARG:HD3	1.32	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:838:ILE:HD11	2:N:54:MET:HE2	1.33	1.08
4:1:246:GLN:HA	4:Y:324:THR:CB	1.84	1.08
4:3:290:ARG:CZ	4:5:202:THR:CG2	2.20	1.08
1:A:72:VAL:HG13	1:A:76:GLN:HB3	1.36	1.08
1:D:72:VAL:HG13	1:D:76:GLN:HB3	1.36	1.08
1:D:639:GLY:HA3	4:9:344:SER:C	1.78	1.08
1:D:813:ILE:HG21	2:E:128:PHE:CE1	1.87	1.08
1:G:641:LYS:HB2	1:G:647:GLN:NE2	1.68	1.08
1:G:754:ASP:N	1:G:776:GLU:OE1	1.87	1.08
1:G:838:ILE:HD12	2:H:54:MET:HE3	1.34	1.08
1:J:638:GLY:CA	4:W:341:ILE:O	2.01	1.08
1:J:641:LYS:CG	1:J:647:GLN:CG	2.16	1.08
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	1.08
1:J:736:GLN:HA	1:J:743:ALA:HB3	1.35	1.08
1:J:798:LEU:HD12	3:L:126:LEU:HD11	1.34	1.08
1:M:639:GLY:HA3	4:Z:344:SER:C	1.78	1.08
1:P:538:GLU:CD	4:1:355:MET:HE1	1.77	1.08
1:P:724:TYR:HE1	1:P:775:LEU:HB3	1.11	1.08
4:7:287:ILE:HG21	4:9:205:GLU:HG2	1.17	1.08
1:D:541:MET:SD	4:9:345:ILE:O	2.12	1.07
1:G:409:GLY:N	1:G:636:LYS:HG3	1.69	1.07
2:H:111:SER:CB	2:H:148:VAL:O	0.78	1.07
1:J:641:LYS:HE3	1:J:647:GLN:OE1	1.50	1.07
1:M:538:GLU:C	4:Z:349:LEU:HD11	1.54	1.07
1:M:813:ILE:HG22	2:N:128:PHE:CZ	1.89	1.07
2:N:121:LEU:C	2:N:128:PHE:HB3	1.72	1.07
1:P:409:GLY:N	1:P:636:LYS:HG3	1.69	1.07
2:Q:111:SER:OG	2:Q:148:VAL:O	1.71	1.07
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.07
1:D:643:GLY:O	1:D:644:SER:OG	1.70	1.07
1:D:822:SER:OG	2:E:88:LEU:HD22	1.50	1.07
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	1.07
2:H:111:SER:OG	2:H:148:VAL:O	1.71	1.07
1:J:643:GLY:O	1:J:644:SER:OG	1.70	1.07
2:K:111:SER:CB	2:K:148:VAL:O	0.78	1.07
1:P:508:ILE:CD1	1:P:766:PHE:CD1	2.35	1.07
2:Q:111:SER:CB	2:Q:148:VAL:O	0.78	1.07
2:Q:121:LEU:C	2:Q:128:PHE:HB3	1.72	1.07
4:X:324:THR:CG2	4:Z:247:VAL:HG22	1.83	1.07
1:D:409:GLY:N	1:D:636:LYS:HG3	1.70	1.07
1:D:727:LEU:HD11	1:D:782:MLY:HG2	1.09	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:635:GLY:HA2	4:W:334:GLU:HG2	1.16	1.07
1:M:529:PRO:HB3	4:Z:353:GLN:OE1	1.53	1.07
1:M:641:LYS:HB2	1:M:647:GLN:NE2	1.68	1.07
1:M:831:TRP:CH2	2:N:47:LEU:CD2	2.37	1.07
2:N:111:SER:OG	2:N:148:VAL:O	1.72	1.07
1:P:639:GLY:HA3	4:1:344:SER:C	1.78	1.07
1:A:639:GLY:HA3	4:8:344:SER:C	1.78	1.07
1:A:643:GLY:O	1:A:644:SER:OG	1.70	1.07
1:D:635:GLY:HA2	4:9:334:GLU:HG2	1.16	1.07
2:E:111:SER:CB	2:E:148:VAL:C	1.93	1.07
1:G:754:ASP:CB	1:G:779:ARG:HD2	1.84	1.07
1:G:757:GLN:OE1	1:G:772:LEU:O	1.70	1.07
1:G:757:GLN:OE1	1:G:772:LEU:C	1.98	1.07
1:J:567:LYS:NZ	4:Y:92:ASN:HD22	1.51	1.07
1:J:571:ALA:O	1:J:572:LYS:HG3	1.52	1.07
1:M:795:ARG:NE	3:O:116:GLU:CB	2.00	1.07
1:M:813:ILE:HG21	2:N:128:PHE:CE1	1.89	1.07
1:P:529:PRO:C	4:1:354:GLN:HB3	1.77	1.07
1:A:28:GLN:HE22	1:A:723:ARG:NH2	1.53	1.07
1:G:638:GLY:CA	4:V:341:ILE:O	2.02	1.07
1:G:736:GLN:HA	1:G:743:ALA:HB3	1.35	1.07
1:M:795:ARG:CZ	3:O:116:GLU:HB3	1.84	1.07
2:N:144:VAL:HG13	2:N:153:ILE:HD11	1.21	1.07
1:P:72:VAL:HG13	1:P:76:GLN:HB3	1.36	1.07
1:P:838:ILE:CG1	2:Q:54:MET:CE	2.32	1.07
4:W:3:ASP:HA	4:W:6:THR:HB	1.36	1.07
1:A:541:MET:SD	4:8:345:ILE:O	2.12	1.06
1:A:768:MLY:HG2	1:A:771:LEU:HD13	1.10	1.06
1:G:754:ASP:HB2	1:G:776:GLU:HA	1.34	1.06
1:J:541:MET:SD	4:W:345:ILE:O	2.13	1.06
1:J:831:TRP:CH2	2:K:47:LEU:HD21	1.90	1.06
2:K:144:VAL:HG13	2:K:153:ILE:HD11	1.21	1.06
1:M:529:PRO:C	4:Z:354:GLN:HB3	1.77	1.06
2:N:111:SER:CB	2:N:148:VAL:O	0.78	1.06
1:P:541:MET:SD	4:1:345:ILE:O	2.13	1.06
2:Q:114:LYS:HA	2:Q:146:GLY:O	0.89	1.06
4:2:287:ILE:HB	4:4:203:THR:HG22	1.33	1.06
1:A:149:GLN:CG	1:A:719:ASP:OD1	2.03	1.06
1:A:542:PHE:CG	4:8:143:TYR:HE1	1.73	1.06
2:H:114:LYS:HA	2:H:146:GLY:O	0.89	1.06
1:M:72:VAL:HG13	1:M:76:GLN:HB3	1.36	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:409:GLY:N	1:M:636:LYS:HG3	1.69	1.06
1:M:799:MET:SD	3:O:32:ASP:CG	2.38	1.06
1:A:149:GLN:CG	1:A:718:ALA:HB3	1.85	1.06
1:A:409:GLY:N	1:A:636:LYS:HG3	1.69	1.06
1:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.06
1:D:542:PHE:CG	4:9:143:TYR:HE1	1.73	1.06
1:D:638:GLY:CA	4:9:341:ILE:O	2.01	1.06
1:D:727:LEU:CD1	1:D:782:MLY:HD3	1.78	1.06
2:E:111:SER:OG	2:E:148:VAL:O	1.71	1.06
1:G:503:TYR:OH	1:G:711:PHE:HD2	1.38	1.06
2:K:111:SER:HB3	2:K:148:VAL:O	1.50	1.06
1:M:541:MET:SD	4:Z:345:ILE:O	2.13	1.06
1:M:817:GLN:CD	2:N:127:ARG:HD2	1.79	1.06
1:P:529:PRO:HB3	4:1:353:GLN:OE1	1.53	1.06
1:P:638:GLY:CA	4:1:341:ILE:O	2.01	1.06
1:P:725:ARG:NH1	3:R:89:GLU:OE1	1.84	1.06
4:1:3:ASP:HA	4:1:6:THR:HB	1.36	1.06
1:A:93:MET:CG	1:A:715:VAL:HG22	1.86	1.06
1:A:576:GLU:HG2	1:A:577:ALA:N	1.66	1.06
1:D:641:LYS:HB2	1:D:647:GLN:NE2	1.68	1.06
1:D:795:ARG:HH21	3:F:116:GLU:CG	1.60	1.06
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	1.06
1:J:795:ARG:HB2	3:L:35:ARG:NH1	1.69	1.06
1:M:783:LEU:HG	1:M:786:ILE:HD12	1.16	1.06
1:P:819:ASN:OD1	2:Q:92:ASP:N	1.87	1.06
1:A:149:GLN:CB	1:A:718:ALA:CB	2.20	1.06
1:D:727:LEU:CB	1:D:782:MLY:HH12	1.69	1.06
1:J:529:PRO:HB3	4:W:353:GLN:OE1	1.53	1.06
1:J:798:LEU:HD11	3:L:126:LEU:HD12	1.33	1.06
1:M:576:GLU:HG2	1:M:577:ALA:N	1.66	1.06
2:N:114:LYS:HA	2:N:146:GLY:O	0.89	1.06
1:P:546:THR:CB	4:3:46:GLY:C	2.27	1.06
1:P:736:GLN:HA	1:P:743:ALA:HB3	1.35	1.06
4:3:322:PRO:HB2	4:5:244:ASP:CB	1.85	1.06
4:X:324:THR:HG22	4:Z:247:VAL:HG23	1.37	1.06
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.05
1:G:768:MLY:HH22	1:G:772:LEU:HD13	1.31	1.05
1:G:789:ALA:HB1	3:I:81:GLN:NE2	1.72	1.05
1:G:834:LEU:HD13	2:H:51:PHE:CE1	1.90	1.05
1:J:409:GLY:N	1:J:636:LYS:HG3	1.69	1.05
1:J:530:MET:HE2	4:W:354:GLN:HG2	1.07	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:635:GLY:HA3	4:W:341:ILE:HD13	1.36	1.05
1:J:641:LYS:HB2	1:J:647:GLN:NE2	1.68	1.05
1:J:757:GLN:NE2	1:J:777:GLU:N	1.95	1.05
1:M:641:LYS:HE3	4:Z:348:SER:O	1.55	1.05
1:M:829:TRP:HZ3	2:N:84:PHE:CE1	1.58	1.05
1:P:829:TRP:CE2	2:Q:87:LYS:HE2	1.90	1.05
4:8:3:ASP:HA	4:8:6:THR:HB	1.36	1.05
1:A:638:GLY:HA2	4:8:341:ILE:O	1.56	1.05
1:A:757:GLN:CB	1:A:771:LEU:CD2	2.32	1.05
1:A:757:GLN:OE1	1:A:771:LEU:CD1	2.01	1.05
1:D:791:GLN:OE1	3:F:116:GLU:HG3	1.56	1.05
1:G:529:PRO:HB3	4:V:353:GLN:OE1	1.53	1.05
1:G:541:MET:SD	4:V:345:ILE:O	2.13	1.05
1:G:553:MLY:HE2	4:X:45:VAL:HB	1.09	1.05
1:G:641:LYS:HE3	4:V:348:SER:O	1.56	1.05
2:H:140:PHE:O	2:H:141:PRO:O	1.75	1.05
2:N:144:VAL:HG11	2:N:153:ILE:HG12	1.37	1.05
1:P:534:SER:C	4:1:351:THR:HA	1.81	1.05
4:9:3:ASP:HA	4:9:6:THR:HB	1.36	1.05
4:W:325:MET:CE	4:Y:244:ASP:OD2	2.04	1.05
1:A:529:PRO:HB3	4:8:353:GLN:OE1	1.53	1.05
1:A:641:LYS:HE3	4:8:348:SER:O	1.56	1.05
1:D:571:ALA:O	1:D:572:LYS:HG3	1.52	1.05
1:G:553:MLY:HH13	4:X:45:VAL:HG11	1.37	1.05
1:J:542:PHE:CG	4:W:143:TYR:HE1	1.73	1.05
2:K:111:SER:OG	2:K:148:VAL:O	1.71	1.05
2:K:114:LYS:HA	2:K:146:GLY:O	0.89	1.05
1:M:534:SER:C	4:Z:351:THR:HA	1.81	1.05
2:N:111:SER:HB3	2:N:148:VAL:O	1.49	1.05
1:P:530:MET:CA	4:1:354:GLN:HG3	1.87	1.05
1:P:549:SER:HB2	4:3:43:VAL:HG21	1.35	1.05
1:P:795:ARG:CZ	3:R:116:GLU:HB3	1.87	1.05
1:P:799:MET:SD	3:R:32:ASP:CG	2.39	1.05
1:D:635:GLY:HA3	4:9:341:ILE:HD13	1.37	1.05
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	1.91	1.05
1:P:530:MET:HE2	4:1:354:GLN:HG2	1.06	1.05
1:P:635:GLY:HA3	4:1:341:ILE:HD13	1.37	1.05
1:A:534:SER:C	4:8:351:THR:HA	1.81	1.05
1:D:534:SER:C	4:9:351:THR:HA	1.81	1.05
1:D:638:GLY:HA2	4:9:341:ILE:O	1.57	1.05
2:E:121:LEU:HG	2:E:128:PHE:CA	1.59	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:641:LYS:HD2	1:G:647:GLN:CD	1.70	1.05
1:G:753:VAL:C	1:G:779:ARG:HD3	1.81	1.05
1:J:534:SER:C	4:W:351:THR:HA	1.81	1.05
1:M:530:MET:CA	4:Z:354:GLN:HG3	1.87	1.05
1:M:767:PHE:CD1	1:M:771:LEU:CD2	2.40	1.05
1:P:795:ARG:NH2	3:R:116:GLU:CB	2.17	1.05
4:3:3:ASP:HA	4:3:6:THR:HB	1.36	1.05
1:A:753:VAL:HG12	1:A:775:LEU:CG	1.87	1.04
1:D:799:MET:CE	3:F:32:ASP:HB3	1.86	1.04
1:G:576:GLU:HG2	1:G:577:ALA:N	1.66	1.04
1:G:769:ALA:HB3	1:G:770:GLY:HA2	1.11	1.04
1:M:542:PHE:CG	4:Z:143:TYR:HE1	1.73	1.04
1:M:797:PHE:CZ	3:O:146:ILE:HD13	1.92	1.04
1:P:542:PHE:CG	4:1:143:TYR:HE1	1.73	1.04
1:P:546:THR:HG23	4:3:46:GLY:O	1.56	1.04
1:P:783:LEU:HA	1:P:786:ILE:HG13	1.09	1.04
1:P:792:ALA:CB	3:R:42:THR:CG2	1.96	1.04
1:D:795:ARG:HH21	3:F:116:GLU:HB3	1.21	1.04
1:G:92:ALA:O	1:G:714:ARG:HG2	1.57	1.04
1:G:552:ASN:O	4:X:47:MET:CE	2.05	1.04
1:G:830:PRO:CG	2:H:67:MET:HE2	1.85	1.04
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.38	1.04
3:O:49:ILE:HA	3:O:52:ASN:HD22	1.23	1.04
1:A:505:MLY:CD	1:A:762:HIS:CA	2.20	1.04
1:A:530:MET:HE2	4:8:354:GLN:HG2	1.06	1.04
1:A:530:MET:CA	4:8:354:GLN:HG3	1.86	1.04
1:D:202:SER:CA	1:D:207:LYS:CE	2.36	1.04
1:D:530:MET:CA	4:9:354:GLN:HG3	1.87	1.04
1:G:530:MET:HE2	4:V:354:GLN:HG2	1.06	1.04
1:G:534:SER:C	4:V:351:THR:HA	1.82	1.04
1:G:788:THR:O	3:I:42:THR:CG2	2.05	1.04
3:L:49:ILE:CA	3:L:52:ASN:HD22	1.71	1.04
1:M:826:VAL:HG21	2:N:88:LEU:HD21	1.38	1.04
1:M:829:TRP:CH2	2:N:84:PHE:CE1	2.46	1.04
1:P:709:LYS:C	1:P:710:GLY:N	2.16	1.04
4:1:243:PRO:HB2	4:Y:291:LYS:CD	1.87	1.04
4:9:290:ARG:CZ	4:W:202:THR:CG2	2.36	1.04
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.04
1:A:502:GLU:HG3	1:A:761:GLY:N	1.25	1.04
1:G:503:TYR:CE1	1:G:711:PHE:CE2	2.45	1.04
1:G:530:MET:CA	4:V:354:GLN:HG3	1.88	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:754:ASP:OD2	1:G:779:ARG:HB3	1.54	1.04
1:G:795:ARG:HE	3:I:116:GLU:HB3	0.87	1.04
1:J:72:VAL:HG13	1:J:76:GLN:HB3	1.36	1.04
1:J:530:MET:CA	4:W:354:GLN:HG3	1.87	1.04
1:J:638:GLY:HA2	4:W:341:ILE:O	1.57	1.04
2:N:140:PHE:O	2:N:141:PRO:O	1.75	1.04
3:O:49:ILE:CA	3:O:52:ASN:HD22	1.71	1.04
1:P:829:TRP:HZ3	2:Q:84:PHE:CE1	1.64	1.04
3:R:49:ILE:CA	3:R:52:ASN:HD22	1.71	1.04
4:7:290:ARG:CZ	4:9:202:THR:CG2	2.36	1.04
1:A:97:LEU:HD22	1:A:712:PRO:CB	1.88	1.04
1:D:599:ASN:HA	1:D:649:VAL:HB	1.06	1.04
1:G:542:PHE:CG	4:V:143:TYR:HE1	1.74	1.04
1:G:795:ARG:HB3	3:I:35:ARG:HH22	1.23	1.04
1:J:831:TRP:CZ3	2:K:34:ILE:HD13	1.93	1.04
2:K:149:ASP:OD2	2:K:150:TYR:N	1.91	1.04
1:M:818:TYR:CZ	2:N:127:ARG:NH2	2.26	1.04
1:P:546:THR:HG21	4:3:46:GLY:C	1.78	1.04
1:P:817:GLN:CG	2:Q:127:ARG:CB	2.35	1.04
4:X:287:ILE:HG12	4:Z:201:VAL:N	1.69	1.04
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.36	1.03
1:A:736:GLN:HA	1:A:743:ALA:HB3	1.35	1.03
1:D:838:ILE:HD12	2:E:54:MET:SD	1.98	1.03
1:G:821:ARG:HH22	2:H:127:ARG:HG2	1.18	1.03
3:I:49:ILE:CA	3:I:52:ASN:HD22	1.70	1.03
1:J:202:SER:CA	1:J:207:LYS:CE	2.36	1.03
2:K:140:PHE:O	2:K:141:PRO:O	1.75	1.03
2:K:144:VAL:HG11	2:K:153:ILE:HG12	1.38	1.03
1:P:838:ILE:HD11	2:Q:54:MET:HE2	1.40	1.03
2:Q:140:PHE:O	2:Q:141:PRO:O	1.75	1.03
2:Q:150:TYR:C	2:Q:151:LYS:HG3	1.83	1.03
4:2:203:THR:HG22	4:Z:287:ILE:CB	1.87	1.03
4:6:3:ASP:HA	4:6:6:THR:HB	1.36	1.03
1:D:641:LYS:HE3	4:9:348:SER:O	1.56	1.03
1:D:818:TYR:HB3	2:E:90:GLY:CA	1.60	1.03
1:M:817:GLN:NE2	2:N:127:ARG:HB2	1.74	1.03
4:1:243:PRO:HB2	4:Y:291:LYS:HE3	1.06	1.03
4:1:287:ILE:HB	4:3:203:THR:HG22	1.08	1.03
1:A:94:MET:O	1:A:713:SER:HB3	1.56	1.03
3:F:49:ILE:CA	3:F:52:ASN:HD22	1.70	1.03
1:G:84:MLY:HD3	1:G:723:ARG:HD2	1.41	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:GLU:C	4:V:349:LEU:CD1	2.21	1.03
2:H:149:ASP:OD2	2:H:150:TYR:N	1.91	1.03
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	1.03
1:M:202:SER:CA	1:M:207:LYS:CE	2.36	1.03
1:M:530:MET:HE2	4:Z:354:GLN:HG2	1.06	1.03
1:M:737:PHE:CE2	3:O:93:VAL:HG22	1.94	1.03
1:P:506:GLU:HG2	1:P:766:PHE:HE1	1.24	1.03
1:P:641:LYS:CG	4:1:348:SER:HB2	1.87	1.03
4:X:287:ILE:C	4:Z:205:GLU:CD	2.27	1.03
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	1.03
1:D:727:LEU:HD12	1:D:782:MLY:NZ	1.72	1.03
1:D:736:GLN:HA	1:D:743:ALA:HB3	1.35	1.03
1:D:791:GLN:CD	3:F:116:GLU:N	2.12	1.03
2:E:149:ASP:OD2	2:E:150:TYR:N	1.91	1.03
1:G:93:MET:HE2	1:G:764:MLY:CD	1.65	1.03
1:G:638:GLY:HA2	4:V:341:ILE:O	1.58	1.03
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	1.03
1:M:795:ARG:HD3	3:O:43:ASN:OD1	1.55	1.03
2:N:117:LEU:CB	2:N:147:ASN:CG	2.32	1.03
1:P:819:ASN:CG	2:Q:92:ASP:HB2	1.83	1.03
2:Q:117:LEU:CB	2:Q:147:ASN:CG	2.32	1.03
1:A:736:GLN:N	1:A:743:ALA:CB	2.05	1.03
1:D:736:GLN:N	1:D:743:ALA:CB	2.05	1.03
1:G:202:SER:CA	1:G:207:LYS:CE	2.36	1.03
1:J:599:ASN:HA	1:J:649:VAL:HB	1.05	1.03
2:N:121:LEU:HG	2:N:128:PHE:CA	1.60	1.03
2:N:149:ASP:OD2	2:N:150:TYR:N	1.91	1.03
3:R:24:LYS:HG2	3:R:63:ILE:O	1.59	1.03
4:1:287:ILE:HG12	4:3:203:THR:H	1.18	1.03
1:A:202:SER:CA	1:A:207:LYS:CE	2.36	1.02
1:A:641:LYS:HB2	1:A:647:GLN:NE2	1.68	1.02
1:D:767:PHE:O	1:D:771:LEU:CD1	2.07	1.02
1:J:639:GLY:N	4:W:345:ILE:N	1.94	1.02
1:J:829:TRP:CZ2	2:K:87:LYS:HE2	1.93	1.02
1:M:642:LYS:HG3	4:Z:23:GLY:H	0.86	1.02
1:P:599:ASN:HA	1:P:649:VAL:HB	1.05	1.02
1:P:806:MET:C	1:P:807:VAL:CG2	2.31	1.02
2:Q:112:ILE:O	2:Q:147:ASN:C	2.02	1.02
4:7:3:ASP:HA	4:7:6:THR:HB	1.36	1.02
4:8:290:ARG:CZ	4:V:202:THR:CG2	2.36	1.02
1:D:530:MET:HE2	4:9:354:GLN:HG2	1.06	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:ARG:O	3:F:149:VAL:HG21	1.57	1.02
1:G:736:GLN:N	1:G:743:ALA:CB	2.05	1.02
2:H:112:ILE:O	2:H:147:ASN:C	2.01	1.02
2:H:117:LEU:CB	2:H:147:ASN:CG	2.32	1.02
1:J:56:GLU:HB2	1:J:59:MLY:HB3	1.40	1.02
1:M:552:ASN:ND2	4:2:48:GLY:N	2.04	1.02
1:M:635:GLY:HA3	4:Z:341:ILE:HD13	1.37	1.02
1:M:795:ARG:CZ	3:O:116:GLU:CG	2.37	1.02
1:P:206:LYS:HD2	1:P:217:THR:HG23	1.41	1.02
1:P:641:LYS:HB2	1:P:647:GLN:NE2	1.68	1.02
1:P:829:TRP:CZ3	2:Q:87:LYS:NZ	2.27	1.02
4:2:3:ASP:HA	4:2:6:THR:HB	1.36	1.02
4:4:3:ASP:HA	4:4:6:THR:HB	1.36	1.02
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.02
1:A:97:LEU:HD22	1:A:712:PRO:HB3	1.41	1.02
1:D:724:TYR:CB	1:D:782:MLY:CD	2.35	1.02
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	1.02
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	1.02
3:F:24:LYS:HG2	3:F:63:ILE:O	1.59	1.02
3:F:49:ILE:HA	3:F:52:ASN:HD22	1.23	1.02
1:M:56:GLU:HB2	1:M:59:MLY:HB3	1.40	1.02
1:M:783:LEU:CA	1:M:786:ILE:HG13	1.88	1.02
1:M:838:ILE:HD11	2:N:54:MET:HE1	1.37	1.02
4:Y:3:ASP:HA	4:Y:6:THR:HB	1.36	1.02
1:A:149:GLN:NE2	1:A:718:ALA:HB2	1.72	1.02
1:D:56:GLU:HB2	1:D:59:MLY:HB3	1.40	1.02
1:D:767:PHE:C	1:D:771:LEU:HD11	1.71	1.02
1:J:576:GLU:HG2	1:J:577:ALA:H	0.85	1.02
1:M:599:ASN:CA	1:M:649:VAL:HB	1.89	1.02
1:M:796:GLY:HA2	3:O:35:ARG:CD	1.90	1.02
3:O:24:LYS:CG	3:O:63:ILE:O	2.08	1.02
2:Q:149:ASP:OD2	2:Q:150:TYR:N	1.91	1.02
4:3:324:THR:CG2	4:5:244:ASP:O	1.97	1.02
1:A:97:LEU:CD2	1:A:712:PRO:HB3	1.89	1.02
1:A:149:GLN:CD	1:A:716:LEU:HD23	1.83	1.02
1:G:56:GLU:HB2	1:G:59:MLY:HB3	1.40	1.02
1:G:529:PRO:C	4:V:354:GLN:HB3	1.79	1.02
1:G:599:ASN:CA	1:G:649:VAL:HB	1.89	1.02
1:J:831:TRP:CH2	2:K:47:LEU:CD2	2.43	1.02
2:K:112:ILE:O	2:K:147:ASN:C	2.02	1.02
1:M:599:ASN:HA	1:M:649:VAL:HB	1.05	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:638:GLY:HA2	4:Z:341:ILE:O	1.57	1.02
2:N:150:TYR:C	2:N:151:LYS:HG3	1.83	1.02
3:O:24:LYS:HG2	3:O:63:ILE:O	1.59	1.02
1:P:638:GLY:HA2	4:1:341:ILE:O	1.57	1.02
4:2:288:ASP:OD2	4:4:203:THR:CG2	2.06	1.02
1:A:56:GLU:HB2	1:A:59:MLY:HB3	1.40	1.01
1:D:646:PHE:HE2	1:D:652:LEU:HD21	1.24	1.01
2:E:112:ILE:O	2:E:147:ASN:C	2.01	1.01
1:G:72:VAL:HG13	1:G:76:GLN:HB3	1.36	1.01
1:G:93:MET:HA	1:G:714:ARG:N	1.75	1.01
1:J:541:MET:HB3	4:W:143:TYR:OH	1.59	1.01
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.01
3:L:49:ILE:HA	3:L:52:ASN:HD22	1.23	1.01
2:N:112:ILE:O	2:N:147:ASN:C	2.02	1.01
1:P:642:LYS:HD3	4:1:340:TRP:CH2	1.96	1.01
4:4:288:ASP:N	4:6:203:THR:HG22	1.75	1.01
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.59	1.01
1:A:502:GLU:HA	1:A:762:HIS:N	1.75	1.01
1:A:553:MLY:HG2	4:V:44:MET:O	1.59	1.01
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	1.01
1:D:642:LYS:HD3	4:9:340:TRP:CZ3	1.96	1.01
2:E:140:PHE:O	2:E:141:PRO:O	1.74	1.01
2:E:150:TYR:O	2:E:151:LYS:CB	2.07	1.01
3:F:24:LYS:CG	3:F:63:ILE:O	2.08	1.01
1:G:98:HIS:HB3	1:G:100:PRO:HD2	1.42	1.01
1:G:541:MET:HB3	4:V:143:TYR:OH	1.60	1.01
2:H:144:VAL:HG11	2:H:153:ILE:HG12	1.38	1.01
3:I:24:LYS:HG2	3:I:63:ILE:O	1.60	1.01
1:J:506:GLU:OE2	1:J:761:GLY:CA	2.07	1.01
1:J:642:LYS:HD3	4:W:340:TRP:CH2	1.96	1.01
1:J:829:TRP:HZ3	2:K:84:PHE:CE2	1.78	1.01
2:K:150:TYR:O	2:K:151:LYS:CB	2.06	1.01
3:L:24:LYS:HG2	3:L:63:ILE:O	1.59	1.01
1:M:556:ASP:H	4:2:49:GLN:HB2	1.24	1.01
1:M:838:ILE:CG1	2:N:54:MET:HE3	1.87	1.01
1:P:56:GLU:HB2	1:P:59:MLY:HB3	1.40	1.01
1:P:549:SER:HA	4:3:43:VAL:HG11	1.39	1.01
1:P:639:GLY:N	4:1:345:ILE:N	1.94	1.01
1:P:796:GLY:HA2	3:R:35:ARG:HD3	1.02	1.01
1:P:819:ASN:CG	2:Q:92:ASP:CB	2.33	1.01
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:LEU:CD2	1:A:712:PRO:CB	2.39	1.01
1:A:541:MET:HB3	4:8:143:TYR:OH	1.60	1.01
1:A:599:ASN:HA	1:A:649:VAL:HB	1.06	1.01
1:D:639:GLY:N	4:9:345:ILE:N	1.94	1.01
1:D:831:TRP:CH2	2:E:34:ILE:HG23	1.95	1.01
1:G:149:GLN:CD	1:G:763:THR:HG23	1.85	1.01
1:G:642:LYS:HG3	4:V:23:GLY:H	0.85	1.01
1:G:752:ASP:O	1:G:780:ASP:CA	2.06	1.01
1:G:757:GLN:OE1	1:G:772:LEU:CA	2.08	1.01
1:J:642:LYS:HG3	4:W:23:GLY:H	0.86	1.01
1:M:641:LYS:HG3	1:M:647:GLN:HG3	1.21	1.01
1:M:642:LYS:HD3	4:Z:340:TRP:CZ3	1.96	1.01
1:P:599:ASN:CA	1:P:649:VAL:HB	1.89	1.01
1:P:723:ARG:NH2	1:P:779:ARG:HH11	1.44	1.01
1:P:804:ARG:HA	1:P:807:VAL:CB	1.90	1.01
1:P:831:TRP:CH2	2:Q:47:LEU:CD2	2.43	1.01
4:1:245:GLY:HA3	4:Y:324:THR:O	1.58	1.01
4:X:3:ASP:HA	4:X:6:THR:HB	1.36	1.01
1:A:599:ASN:CA	1:A:649:VAL:HB	1.89	1.01
1:A:635:GLY:HA3	4:8:341:ILE:HD13	1.37	1.01
1:A:641:LYS:HE3	1:A:647:GLN:HB2	1.43	1.01
1:D:576:GLU:HG2	1:D:577:ALA:H	0.85	1.01
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.40	1.01
1:G:635:GLY:HA3	4:V:341:ILE:HD13	1.37	1.01
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	1.01
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	1.01
3:I:24:LYS:CG	3:I:63:ILE:O	2.08	1.01
1:J:84:MLY:HD2	1:J:724:TYR:CZ	1.85	1.01
1:J:721:LYS:CA	1:J:736:GLN:CD	2.34	1.01
1:M:642:LYS:HD3	4:Z:340:TRP:CH2	1.95	1.01
1:M:829:TRP:CE2	2:N:87:LYS:HE2	1.95	1.01
1:P:641:LYS:HE3	4:1:348:SER:O	1.55	1.01
1:P:641:LYS:HE3	1:P:647:GLN:HB2	1.43	1.01
1:P:642:LYS:HG3	4:1:23:GLY:H	0.86	1.01
1:P:792:ALA:HB3	3:R:42:THR:HG22	1.40	1.01
1:P:830:PRO:HG2	2:Q:67:MET:HG2	1.42	1.01
4:9:290:ARG:NH2	4:W:202:THR:CG2	2.23	1.01
1:A:768:MLY:HB3	1:A:771:LEU:CG	1.91	1.01
1:D:534:SER:O	4:9:351:THR:HA	1.60	1.01
1:D:642:LYS:HG3	4:9:23:GLY:H	0.86	1.01
1:G:206:LYS:CD	1:G:217:THR:CG2	2.16	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:641:LYS:HE3	1:G:647:GLN:HB2	1.42	1.01
1:J:98:HIS:HB3	1:J:100:PRO:HD2	1.42	1.01
1:J:206:LYS:HD2	1:J:217:THR:HG23	1.41	1.01
1:J:534:SER:O	4:W:351:THR:HA	1.60	1.01
1:J:599:ASN:CA	1:J:649:VAL:HB	1.89	1.01
1:J:641:LYS:HE3	1:J:647:GLN:HB2	1.42	1.01
1:J:797:PHE:HE1	3:L:146:ILE:HA	1.23	1.01
1:M:541:MET:HB3	4:Z:143:TYR:OH	1.60	1.01
1:M:795:ARG:HA	3:O:118:MET:CE	1.90	1.01
1:P:576:GLU:HG2	1:P:577:ALA:N	1.66	1.01
2:Q:144:VAL:HG11	2:Q:153:ILE:HG12	1.37	1.01
4:3:324:THR:HG21	4:5:244:ASP:O	1.60	1.01
4:8:287:ILE:HB	4:V:204:ALA:H	1.25	1.01
1:A:505:MLY:CB	1:A:762:HIS:CD2	2.07	1.00
1:D:795:ARG:HB3	3:F:35:ARG:CZ	1.90	1.00
1:G:97:LEU:HD23	1:G:712:PRO:CB	1.85	1.00
1:G:599:ASN:HA	1:G:649:VAL:HB	1.05	1.00
3:I:48:LYS:O	3:I:52:ASN:ND2	1.94	1.00
1:J:710:GLY:N	1:J:772:LEU:HD22	1.76	1.00
1:J:797:PHE:CG	3:L:146:ILE:HG23	1.92	1.00
1:J:836:PHE:CE1	2:K:159:HIS:CA	2.43	1.00
1:M:641:LYS:HE3	1:M:647:GLN:HB2	1.43	1.00
1:P:537:GLU:C	4:1:349:LEU:CD1	2.21	1.00
1:P:646:PHE:HE2	1:P:652:LEU:HD21	1.24	1.00
1:P:797:PHE:CD1	3:R:146:ILE:HG23	1.96	1.00
4:2:203:THR:N	4:Z:287:ILE:CB	2.13	1.00
4:7:287:ILE:HB	4:9:204:ALA:H	1.26	1.00
1:A:642:LYS:HD3	4:8:340:TRP:CZ3	1.95	1.00
1:A:642:LYS:HD3	4:8:340:TRP:CH2	1.95	1.00
1:D:599:ASN:CA	1:D:649:VAL:HB	1.89	1.00
1:D:642:LYS:HD3	4:9:340:TRP:CH2	1.96	1.00
1:D:726:VAL:HG11	1:D:785:GLU:HB3	1.04	1.00
1:D:727:LEU:CG	1:D:782:MLY:HE2	1.92	1.00
1:G:206:LYS:HD2	1:G:217:THR:HG23	1.41	1.00
1:G:735:GLY:C	1:G:743:ALA:CA	2.34	1.00
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.22	1.00
1:J:756:THR:O	1:J:776:GLU:OE1	1.78	1.00
1:J:838:ILE:HD11	2:K:54:MET:HE3	1.01	1.00
1:M:735:GLY:C	1:M:743:ALA:CA	2.35	1.00
3:R:24:LYS:CG	3:R:63:ILE:O	2.08	1.00
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.24	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:291:LYS:CE	4:Z:243:PRO:C	2.34	1.00
4:Z:3:ASP:HA	4:Z:6:THR:HB	1.36	1.00
1:A:206:LYS:HD2	1:A:217:THR:HG23	1.41	1.00
1:A:505:MLY:HD3	1:A:762:HIS:N	1.74	1.00
1:D:641:LYS:HE3	1:D:647:GLN:HB2	1.43	1.00
1:D:727:LEU:CD1	1:D:782:MLY:HG2	1.86	1.00
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	1.00
1:G:821:ARG:NH2	2:H:127:ARG:HG2	1.75	1.00
2:H:150:TYR:O	2:H:151:LYS:CB	2.07	1.00
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.22	1.00
1:J:215:GLN:CA	1:J:340:ILE:HG23	1.92	1.00
1:J:829:TRP:CE3	2:K:87:LYS:NZ	2.30	1.00
1:M:795:ARG:CA	3:O:118:MET:CE	2.38	1.00
3:O:48:LYS:O	3:O:52:ASN:ND2	1.94	1.00
1:P:641:LYS:HE3	1:P:647:GLN:CB	1.91	1.00
1:P:642:LYS:HD3	4:1:340:TRP:CZ3	1.96	1.00
4:2:203:THR:HG22	4:Z:287:ILE:HB	1.01	1.00
4:2:287:ILE:CG2	4:4:202:THR:OG1	2.03	1.00
1:A:218:LEU:CA	1:A:221:GLN:HG3	1.91	1.00
1:A:502:GLU:CG	1:A:761:GLY:N	2.00	1.00
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	1.00
1:G:174:SER:HB3	1:G:667:THR:HG21	1.44	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.00
1:J:735:GLY:C	1:J:743:ALA:CA	2.35	1.00
1:M:795:ARG:HH21	3:O:116:GLU:HG2	1.19	1.00
1:P:541:MET:HB3	4:1:143:TYR:OH	1.59	1.00
3:R:48:LYS:O	3:R:52:ASN:ND2	1.94	1.00
4:2:322:PRO:HB3	4:4:244:ASP:CB	1.90	1.00
1:D:724:TYR:CD1	1:D:782:MLY:HD3	1.97	1.00
2:E:144:VAL:HG11	2:E:153:ILE:HG12	1.38	1.00
1:G:769:ALA:CB	1:G:770:GLY:CA	2.37	1.00
1:G:817:GLN:CG	2:H:127:ARG:HB2	1.90	1.00
1:M:174:SER:HB3	1:M:667:THR:HG21	1.44	1.00
1:M:218:LEU:CA	1:M:221:GLN:HG3	1.91	1.00
1:M:576:GLU:HG2	1:M:577:ALA:H	0.85	1.00
1:M:646:PHE:HE2	1:M:652:LEU:HD21	1.24	1.00
1:M:818:TYR:OH	2:N:127:ARG:NH2	1.94	1.00
1:P:818:TYR:CZ	2:Q:127:ARG:NH1	2.30	1.00
1:P:838:ILE:CG1	2:Q:54:MET:HE3	1.90	1.00
2:Q:150:TYR:O	2:Q:151:LYS:CB	2.07	1.00
3:R:49:ILE:HA	3:R:52:ASN:HD22	1.23	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:287:ILE:HB	4:W:204:ALA:H	1.25	1.00
4:W:291:LYS:HD2	4:Y:243:PRO:HB2	1.41	1.00
1:A:174:SER:HB3	1:A:667:THR:HG21	1.44	1.00
1:A:553:MLY:HB3	4:V:46:GLY:CA	1.51	1.00
1:J:829:TRP:CE2	2:K:87:LYS:HE2	1.96	1.00
1:A:537:GLU:C	4:8:349:LEU:CD1	2.20	1.00
1:A:642:LYS:HG3	4:8:23:GLY:H	0.86	1.00
1:D:641:LYS:HE3	1:D:647:GLN:CB	1.91	1.00
1:D:818:TYR:HB3	2:E:90:GLY:HA3	1.14	1.00
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	1.00
2:K:121:LEU:HG	2:K:128:PHE:CA	1.60	1.00
2:Q:139:ALA:O	2:Q:141:PRO:HD3	1.62	1.00
4:4:324:THR:HG23	4:6:244:ASP:C	1.86	1.00
4:9:286:ASP:OD1	4:W:203:THR:HG22	1.62	1.00
4:X:291:LYS:HE2	4:Z:243:PRO:C	1.85	1.00
1:A:98:HIS:HB3	1:A:100:PRO:HD2	1.42	0.99
1:A:641:LYS:HE3	1:A:647:GLN:CB	1.91	0.99
1:D:557:GLU:N	4:W:48:GLY:CA	2.12	0.99
1:D:576:GLU:CG	1:D:577:ALA:H	1.75	0.99
2:E:149:ASP:OD2	2:E:150:TYR:O	1.80	0.99
1:G:148:ARG:HH21	1:G:764:MLY:HH21	1.25	0.99
1:G:789:ALA:HB1	3:I:81:GLN:CD	1.87	0.99
1:M:715:VAL:HG22	1:M:772:LEU:HD21	1.40	0.99
1:M:730:SER:HB3	3:O:85:GLU:HB3	1.43	0.99
1:P:726:VAL:HG22	3:R:86:ASP:OD1	1.62	0.99
1:P:735:GLY:C	1:P:743:ALA:CA	2.35	0.99
4:7:322:PRO:HB3	4:9:244:ASP:OD2	1.62	0.99
1:A:753:VAL:CG1	1:A:775:LEU:HG	1.92	0.99
1:G:642:LYS:HD3	4:V:340:TRP:CH2	1.96	0.99
1:G:646:PHE:HE2	1:G:652:LEU:HD21	1.24	0.99
1:G:817:GLN:HG2	2:H:127:ARG:HB3	1.41	0.99
1:J:553:MLY:HE3	4:Y:45:VAL:CG1	1.92	0.99
1:J:576:GLU:CG	1:J:577:ALA:H	1.75	0.99
1:J:821:ARG:NH2	2:K:127:ARG:CG	2.24	0.99
1:M:534:SER:O	4:Z:351:THR:HA	1.60	0.99
1:M:639:GLY:CA	4:Z:345:ILE:CA	2.40	0.99
1:P:721:LYS:CA	1:P:736:GLN:CD	2.34	0.99
1:P:736:GLN:N	1:P:743:ALA:CB	2.05	0.99
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.99
1:A:28:GLN:NE2	1:A:723:ARG:HH21	1.60	0.99
1:A:576:GLU:HG2	1:A:577:ALA:H	0.85	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:GLN:HE22	1:A:627:GLY:CA	1.75	0.99
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	0.99
1:D:215:GLN:CA	1:D:340:ILE:HG23	1.92	0.99
1:D:553:MLY:HG2	4:W:44:MET:O	1.59	0.99
2:K:149:ASP:OD2	2:K:150:TYR:O	1.80	0.99
1:M:206:LYS:HD2	1:M:217:THR:HG23	1.41	0.99
1:M:612:GLN:HE22	1:M:627:GLY:CA	1.75	0.99
1:P:218:LEU:CA	1:P:221:GLN:HG3	1.91	0.99
4:9:322:PRO:HB3	4:W:244:ASP:OD2	1.62	0.99
1:D:732:ILE:CD1	1:D:782:MLY:HH11	1.91	0.99
1:D:769:ALA:C	1:D:774:LEU:HB2	1.87	0.99
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
1:J:537:GLU:C	4:W:349:LEU:CD1	2.21	0.99
1:M:799:MET:SD	3:O:32:ASP:OD2	2.20	0.99
1:P:202:SER:CA	1:P:207:LYS:CE	2.36	0.99
1:P:612:GLN:HE22	1:P:627:GLY:CA	1.76	0.99
1:P:795:ARG:HE	3:R:116:GLU:HB3	0.84	0.99
1:P:838:ILE:HD11	2:Q:54:MET:HE1	1.42	0.99
4:V:324:THR:CG2	4:X:247:VAL:N	2.24	0.99
1:D:649:VAL:CG1	1:D:649:VAL:HG22	1.92	0.99
1:G:218:LEU:CA	1:G:221:GLN:HG3	1.91	0.99
1:A:735:GLY:C	1:A:743:ALA:CA	2.34	0.99
1:G:552:ASN:O	4:X:47:MET:HE1	1.61	0.99
1:G:642:LYS:HD3	4:V:340:TRP:CZ3	1.96	0.99
1:G:797:PHE:CE1	3:I:146:ILE:CD1	2.43	0.99
1:P:576:GLU:HG2	1:P:577:ALA:H	0.85	0.99
1:P:795:ARG:NH2	3:R:116:GLU:CD	2.17	0.99
1:P:795:ARG:CB	3:R:35:ARG:HH12	1.74	0.99
4:3:287:ILE:HD13	4:5:203:THR:HB	1.42	0.99
1:D:206:LYS:HD2	1:D:217:THR:HG23	1.41	0.99
1:D:218:LEU:CA	1:D:221:GLN:HG3	1.91	0.99
2:E:141:PRO:HB2	2:E:142:PRO:HD2	1.44	0.99
1:G:97:LEU:HD22	1:G:712:PRO:HB3	1.40	0.99
1:J:793:ARG:HH21	3:L:147:MET:HE3	1.24	0.99
2:K:139:ALA:O	2:K:141:PRO:HD3	1.62	0.99
1:M:821:ARG:HH22	2:N:127:ARG:HG2	1.06	0.99
1:P:206:LYS:CD	1:P:217:THR:CG2	2.16	0.99
4:2:287:ILE:CG1	4:4:202:THR:HA	1.93	0.99
4:X:287:ILE:CG1	4:Z:201:VAL:HG23	1.91	0.99
1:D:612:GLN:HE22	1:D:627:GLY:CA	1.75	0.99
1:D:800:ARG:NH2	3:F:40:ASN:HD21	1.60	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:641:LYS:HE3	1:G:647:GLN:CB	1.91	0.99
1:M:795:ARG:HG2	3:O:118:MET:HE2	1.40	0.99
1:P:502:GLU:HG3	1:P:766:PHE:HZ	1.28	0.99
2:E:139:ALA:O	2:E:141:PRO:HD3	1.62	0.99
1:G:576:GLU:HG2	1:G:577:ALA:H	0.85	0.99
1:G:817:GLN:HB3	2:H:127:ARG:HD3	1.40	0.99
1:J:829:TRP:HZ2	2:K:83:MET:HE3	1.10	0.99
1:M:721:LYS:CA	1:M:736:GLN:CD	2.34	0.99
1:P:215:GLN:CA	1:P:340:ILE:HG23	1.92	0.99
1:P:639:GLY:CA	4:1:345:ILE:CA	2.40	0.99
1:P:725:ARG:NH1	3:R:89:GLU:CD	2.20	0.99
1:P:786:ILE:CG2	1:P:787:ILE:N	2.25	0.99
1:A:576:GLU:CG	1:A:577:ALA:H	1.75	0.99
1:J:646:PHE:HE2	1:J:652:LEU:HD21	1.24	0.99
1:M:641:LYS:HE3	1:M:647:GLN:CB	1.91	0.99
1:P:649:VAL:CG1	1:P:649:VAL:HG22	1.92	0.99
4:3:324:THR:HB	4:5:243:PRO:O	1.14	0.99
1:A:501:GLU:CB	1:A:762:HIS:ND1	2.26	0.98
1:G:754:ASP:CG	1:G:779:ARG:HD2	1.87	0.98
2:H:141:PRO:HB2	2:H:142:PRO:HD2	1.44	0.98
2:H:149:ASP:OD2	2:H:150:TYR:O	1.80	0.98
2:N:141:PRO:HB2	2:N:142:PRO:HD2	1.44	0.98
1:D:639:GLY:CA	4:9:345:ILE:CA	2.41	0.98
1:D:735:GLY:C	1:D:743:ALA:CA	2.35	0.98
1:D:797:PHE:CE1	3:F:146:ILE:CA	2.45	0.98
1:G:215:GLN:CA	1:G:340:ILE:HG23	1.92	0.98
1:M:804:ARG:O	1:M:808:GLU:CG	2.10	0.98
1:D:537:GLU:C	4:9:349:LEU:CD1	2.21	0.98
1:G:754:ASP:CA	1:G:776:GLU:OE1	2.09	0.98
1:J:649:VAL:CG1	1:J:649:VAL:HG22	1.92	0.98
1:J:801:VAL:HG21	3:L:126:LEU:HD23	1.41	0.98
4:2:204:ALA:H	4:Z:287:ILE:HG21	1.28	0.98
4:2:244:ASP:CB	4:Z:322:PRO:HB3	1.92	0.98
1:G:534:SER:O	4:V:351:THR:HA	1.60	0.98
1:G:612:GLN:HE22	1:G:627:GLY:CA	1.75	0.98
1:G:795:ARG:C	3:I:35:ARG:NH2	2.20	0.98
1:G:813:ILE:CG2	2:H:128:PHE:CZ	2.41	0.98
1:M:215:GLN:CA	1:M:340:ILE:HG23	1.92	0.98
1:M:783:LEU:CG	1:M:786:ILE:CD1	2.41	0.98
1:M:821:ARG:NH2	2:N:127:ARG:CG	2.26	0.98
1:M:821:ARG:HH22	2:N:127:ARG:CG	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:52:ASN:HB2	3:O:53:PRO:HD3	1.46	0.98
1:P:98:HIS:HB3	1:P:100:PRO:HD2	1.42	0.98
4:X:324:THR:HG22	4:Z:247:VAL:HG22	1.00	0.98
1:G:93:MET:HE1	1:G:764:MLY:CD	1.67	0.98
1:G:752:ASP:O	1:G:780:ASP:OD1	1.82	0.98
1:M:639:GLY:N	4:Z:345:ILE:N	1.94	0.98
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	0.98
1:G:530:MET:CE	4:V:354:GLN:CG	2.40	0.98
1:G:730:SER:OG	3:I:113:THR:HG21	0.80	0.98
1:J:639:GLY:CA	4:W:345:ILE:CA	2.40	0.98
2:N:149:ASP:OD2	2:N:150:TYR:O	1.80	0.98
2:Q:121:LEU:HG	2:Q:128:PHE:CA	1.59	0.98
2:Q:141:PRO:HB2	2:Q:142:PRO:HD2	1.44	0.98
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	0.98
1:J:612:GLN:HE22	1:J:627:GLY:CA	1.75	0.98
1:J:795:ARG:HH21	3:L:116:GLU:CD	1.60	0.98
2:Q:117:LEU:HD13	2:Q:147:ASN:OD1	1.64	0.98
1:G:649:VAL:CG1	1:G:649:VAL:HG22	1.92	0.98
1:M:98:HIS:HB3	1:M:100:PRO:HD2	1.42	0.98
2:N:139:ALA:O	2:N:141:PRO:HD3	1.62	0.98
1:A:641:LYS:CD	4:8:348:SER:HB2	1.93	0.98
2:K:141:PRO:HB2	2:K:142:PRO:HD2	1.44	0.98
1:M:576:GLU:CG	1:M:577:ALA:H	1.75	0.98
1:P:804:ARG:CA	1:P:807:VAL:CG1	2.42	0.98
4:1:287:ILE:HG12	4:3:203:THR:N	1.79	0.98
4:3:322:PRO:CB	4:5:244:ASP:CG	2.37	0.98
4:8:286:ASP:OD1	4:V:203:THR:HG22	1.62	0.98
1:A:215:GLN:CA	1:A:340:ILE:HG23	1.92	0.98
1:A:642:LYS:HD2	4:8:24:ASP:O	1.64	0.98
1:G:641:LYS:HG3	1:G:647:GLN:NE2	1.59	0.98
1:G:757:GLN:CG	1:G:776:GLU:CG	2.08	0.98
3:L:48:LYS:O	3:L:52:ASN:ND2	1.94	0.98
2:Q:149:ASP:OD2	2:Q:150:TYR:O	1.80	0.98
4:7:286:ASP:OD1	4:9:203:THR:HG22	1.62	0.98
1:D:98:HIS:HB3	1:D:100:PRO:HD2	1.42	0.97
1:D:542:PHE:CG	4:9:143:TYR:CE1	2.52	0.97
1:J:819:ASN:HA	2:K:90:GLY:O	0.80	0.97
1:M:552:ASN:ND2	4:2:47:MET:CB	2.27	0.97
1:M:649:VAL:CG1	1:M:649:VAL:HG22	1.92	0.97
1:M:724:TYR:CZ	1:M:775:LEU:HB3	1.98	0.97
1:P:804:ARG:CA	1:P:807:VAL:HG12	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:287:ILE:HD13	4:4:203:THR:CB	1.93	0.97
1:J:530:MET:CE	4:W:354:GLN:CG	2.41	0.97
3:L:46:ILE:O	3:L:50:LEU:HG	1.64	0.97
1:P:829:TRP:CE3	2:Q:87:LYS:NZ	2.31	0.97
4:2:324:THR:OG1	4:4:244:ASP:CA	2.12	0.97
1:G:639:GLY:N	4:V:345:ILE:N	1.94	0.97
1:J:838:ILE:CD1	2:K:54:MET:CE	2.28	0.97
3:R:52:ASN:HB2	3:R:53:PRO:HD3	1.46	0.97
4:4:322:PRO:CB	4:6:244:ASP:CB	2.41	0.97
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.64	0.97
1:A:649:VAL:CG1	1:A:649:VAL:HG22	1.92	0.97
1:A:649:VAL:CG2	1:A:649:VAL:CA	2.43	0.97
1:D:174:SER:HB3	1:D:667:THR:HG21	1.44	0.97
1:D:726:VAL:HG12	1:D:785:GLU:HG2	1.01	0.97
1:J:817:GLN:CG	2:K:127:ARG:CD	2.41	0.97
1:J:821:ARG:HH21	2:K:127:ARG:HG2	1.14	0.97
2:K:144:VAL:HG13	2:K:153:ILE:HG12	1.14	0.97
1:M:724:TYR:CD1	1:M:775:LEU:HB3	1.99	0.97
4:2:202:THR:HB	4:Z:287:ILE:CB	1.94	0.97
4:2:203:THR:CG2	4:Z:288:ASP:CG	2.37	0.97
1:A:505:MLY:HG3	1:A:741:LYS:HZ2	1.18	0.97
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	0.97
1:D:732:ILE:CD1	1:D:782:MLY:CH1	2.41	0.97
1:G:736:GLN:CA	1:G:743:ALA:HB2	1.95	0.97
1:J:542:PHE:CG	4:W:143:TYR:CE1	2.53	0.97
1:J:756:THR:HG22	1:J:776:GLU:CB	1.94	0.97
1:J:788:THR:O	3:L:42:THR:HG21	1.63	0.97
1:M:642:LYS:HD2	4:Z:24:ASP:O	1.65	0.97
1:P:174:SER:HB3	1:P:667:THR:HG21	1.44	0.97
1:P:642:LYS:HG2	4:1:21:PHE:O	1.65	0.97
2:E:117:LEU:HD13	2:E:147:ASN:OD1	1.64	0.97
1:G:649:VAL:CG2	1:G:649:VAL:CA	2.43	0.97
1:G:830:PRO:CB	2:H:67:MET:CE	2.42	0.97
1:G:834:LEU:HD12	2:H:51:PHE:CE1	2.00	0.97
2:H:130:PRO:O	2:H:133:ILE:N	1.96	0.97
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	0.97
1:J:174:SER:HB3	1:J:667:THR:HG21	1.44	0.97
1:M:537:GLU:C	4:Z:349:LEU:CD1	2.20	0.97
1:M:542:PHE:CG	4:Z:143:TYR:CE1	2.53	0.97
1:M:804:ARG:HA	1:M:807:VAL:HG12	1.44	0.97
4:1:246:GLN:HA	4:Y:324:THR:HB	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:322:PRO:HB3	4:V:244:ASP:OD2	1.62	0.97
1:A:530:MET:CE	4:8:354:GLN:CG	2.41	0.97
1:D:218:LEU:CA	1:D:221:GLN:CG	2.42	0.97
1:D:649:VAL:CG2	1:D:649:VAL:CA	2.43	0.97
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.98	0.97
1:G:576:GLU:CG	1:G:577:ALA:H	1.75	0.97
1:G:642:LYS:HD2	4:V:24:ASP:O	1.65	0.97
1:G:795:ARG:HG2	3:I:118:MET:HE1	0.99	0.97
2:H:139:ALA:O	2:H:141:PRO:HD3	1.62	0.97
2:N:130:PRO:O	2:N:133:ILE:N	1.96	0.97
2:N:150:TYR:O	2:N:151:LYS:CB	2.07	0.97
1:P:649:VAL:CG2	1:P:649:VAL:CA	2.43	0.97
2:Q:130:PRO:O	2:Q:133:ILE:N	1.96	0.97
1:A:93:MET:HG2	1:A:715:VAL:CG2	1.93	0.97
1:D:831:TRP:CD1	2:E:51:PHE:CZ	2.48	0.97
1:G:97:LEU:HD23	1:G:712:PRO:HB3	0.99	0.97
1:G:784:ALA:O	1:G:788:THR:N	1.96	0.97
1:J:800:ARG:HH22	3:L:40:ASN:ND2	1.61	0.97
1:M:95:THR:HG23	1:M:770:GLY:HA2	1.44	0.97
1:M:730:SER:CA	3:O:89:GLU:OE2	2.11	0.97
2:Q:121:LEU:CB	2:Q:128:PHE:HB3	1.69	0.97
4:V:325:MET:CE	4:X:244:ASP:CG	2.37	0.97
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.62	0.97
1:D:736:GLN:CA	1:D:743:ALA:HB2	1.95	0.97
2:E:121:LEU:CB	2:E:128:PHE:HB3	1.69	0.97
1:J:736:GLN:CA	1:J:743:ALA:HB2	1.95	0.97
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.46	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
1:A:753:VAL:HG12	1:A:775:LEU:HG	0.98	0.97
3:F:52:ASN:HB2	3:F:53:PRO:HD3	1.45	0.97
1:G:542:PHE:CG	4:V:143:TYR:CE1	2.53	0.97
1:G:553:MLY:HH12	4:X:45:VAL:HG21	1.46	0.97
1:G:829:TRP:HH2	2:H:83:MET:HE3	1.20	0.97
1:J:218:LEU:CA	1:J:221:GLN:CG	2.42	0.97
2:K:117:LEU:HD13	2:K:147:ASN:OD1	1.64	0.97
1:M:213:LYS:HA	1:M:220:ASP:CG	1.90	0.97
1:P:534:SER:O	4:1:351:THR:HA	1.59	0.97
1:P:709:LYS:H	1:P:710:GLY:N	1.60	0.97
2:Q:150:TYR:O	2:Q:151:LYS:HG3	1.65	0.97
4:1:201:VAL:N	4:Y:287:ILE:HG12	1.78	0.97
2:E:144:VAL:HG13	2:E:153:ILE:HG12	1.14	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:149:ASP:CG	2:E:150:TYR:H	1.73	0.96
2:E:163:ALA:HA	2:K:21:GLU:HB3	1.46	0.96
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.96
1:G:753:VAL:CA	1:G:780:ASP:OD1	2.12	0.96
2:K:130:PRO:O	2:K:133:ILE:N	1.96	0.96
1:M:218:LEU:CA	1:M:221:GLN:CG	2.42	0.96
1:A:549:SER:C	4:V:46:GLY:HA3	1.90	0.96
1:A:735:GLY:C	1:A:743:ALA:HA	1.91	0.96
1:A:752:ASP:OD2	1:A:782:MLY:CD	2.13	0.96
1:G:503:TYR:OH	1:G:711:PHE:CD2	2.11	0.96
1:J:649:VAL:CG2	1:J:649:VAL:CA	2.43	0.96
1:M:649:VAL:CG2	1:M:649:VAL:CA	2.43	0.96
4:2:203:THR:HG21	4:Z:288:ASP:OD2	1.61	0.96
4:2:287:ILE:CG2	4:4:204:ALA:H	1.79	0.96
1:A:553:MLY:HB3	4:V:46:GLY:HA2	1.47	0.96
1:D:800:ARG:NH2	3:F:40:ASN:ND2	2.12	0.96
1:D:818:TYR:HB3	2:E:90:GLY:N	1.81	0.96
1:G:795:ARG:HE	3:I:116:GLU:CB	1.78	0.96
1:G:820:VAL:HG11	2:H:136:MET:CE	1.94	0.96
3:O:46:ILE:O	3:O:50:LEU:HG	1.64	0.96
1:P:502:GLU:CG	1:P:766:PHE:HZ	1.77	0.96
1:P:542:PHE:CG	4:1:143:TYR:CE1	2.53	0.96
1:P:733:PRO:HG3	3:R:85:GLU:HG2	1.46	0.96
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.96
1:D:813:ILE:HG21	2:E:128:PHE:HE1	1.21	0.96
2:E:130:PRO:O	2:E:133:ILE:N	1.97	0.96
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.96
1:J:641:LYS:HE3	4:W:348:SER:O	1.55	0.96
1:J:817:GLN:HG2	2:K:127:ARG:HD2	1.45	0.96
1:M:95:THR:OG1	1:M:770:GLY:CA	2.14	0.96
1:P:218:LEU:CA	1:P:221:GLN:CG	2.42	0.96
4:2:288:ASP:CG	4:4:203:THR:HG23	1.86	0.96
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.96
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	0.96
1:A:646:PHE:HE2	1:A:652:LEU:HD21	1.24	0.96
1:D:637:LYS:NZ	4:9:141:SER:O	1.99	0.96
1:D:795:ARG:CB	3:F:35:ARG:NH1	2.29	0.96
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	0.96
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	0.96
1:J:635:GLY:HA3	4:W:334:GLU:HG2	1.47	0.96
1:J:735:GLY:C	1:J:743:ALA:HA	1.91	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:795:ARG:HB2	3:R:35:ARG:NH1	1.81	0.96
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.96
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.43	0.96
1:D:642:LYS:HD2	4:9:24:ASP:O	1.64	0.96
1:D:649:VAL:CG1	1:D:649:VAL:C	2.38	0.96
1:D:727:LEU:HG	1:D:782:MLY:HG3	1.46	0.96
1:J:637:LYS:NZ	4:W:141:SER:O	1.99	0.96
1:J:649:VAL:CG1	1:J:649:VAL:C	2.38	0.96
1:J:792:ALA:HB2	3:L:42:THR:HG22	1.03	0.96
2:K:121:LEU:CB	2:K:128:PHE:HB3	1.69	0.96
1:M:553:MLY:HH22	4:2:43:VAL:CG2	1.95	0.96
1:P:637:LYS:NZ	4:1:141:SER:O	1.99	0.96
1:P:642:LYS:HD2	4:1:24:ASP:O	1.65	0.96
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.96
1:G:218:LEU:CA	1:G:221:GLN:CG	2.42	0.96
1:G:754:ASP:N	1:G:779:ARG:HD3	1.79	0.96
1:J:642:LYS:HD2	4:W:24:ASP:O	1.65	0.96
1:M:838:ILE:CG1	2:N:54:MET:HE1	1.96	0.96
4:1:287:ILE:HG21	4:3:203:THR:N	1.79	0.96
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.96
1:D:747:LEU:CD1	1:D:782:MLY:CH2	2.38	0.96
1:M:543:PRO:CG	4:Z:143:TYR:O	2.14	0.96
1:M:813:ILE:HG22	2:N:128:PHE:CE1	1.96	0.96
4:4:322:PRO:HB2	4:6:244:ASP:CB	1.95	0.96
4:X:291:LYS:CG	4:Z:244:ASP:N	2.24	0.96
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	0.96
1:D:635:GLY:HA3	4:9:334:GLU:HG2	1.47	0.96
1:D:641:LYS:HG3	1:D:647:GLN:NE2	1.59	0.96
1:G:84:MLY:CH1	1:G:724:TYR:HE2	1.77	0.96
1:G:642:LYS:HG2	4:V:21:PHE:O	1.65	0.96
1:J:831:TRP:HZ3	2:K:34:ILE:HD13	1.26	0.96
1:M:635:GLY:HA3	4:Z:334:GLU:HG2	1.47	0.96
1:M:783:LEU:HA	1:M:786:ILE:HG13	0.98	0.96
1:P:292:MET:HE1	1:P:309:PRO:HA	1.47	0.96
1:A:502:GLU:OE1	1:A:763:THR:N	1.98	0.96
3:F:46:ILE:O	3:F:50:LEU:HG	1.65	0.96
1:G:149:GLN:HG2	1:G:763:THR:HG21	0.98	0.96
2:H:121:LEU:HG	2:H:128:PHE:HA	1.46	0.96
1:J:783:LEU:O	1:J:787:ILE:N	1.99	0.96
1:M:735:GLY:C	1:M:743:ALA:HA	1.91	0.96
1:P:829:TRP:CH2	2:Q:84:PHE:CE1	2.53	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:322:PRO:CB	4:4:244:ASP:CB	2.44	0.96
4:9:288:ASP:HA	4:W:204:ALA:HB2	1.48	0.96
4:W:325:MET:HE1	4:Y:244:ASP:CG	1.91	0.96
1:A:292:MET:HE1	1:A:309:PRO:HA	1.48	0.95
1:G:93:MET:CA	1:G:714:ARG:H	1.78	0.95
1:G:755:HIS:H	1:G:779:ARG:CZ	1.78	0.95
1:J:756:THR:CG2	1:J:776:GLU:CA	2.43	0.95
1:M:649:VAL:CG1	1:M:649:VAL:C	2.38	0.95
4:7:288:ASP:HA	4:9:204:ALA:HB2	1.48	0.95
1:D:538:GLU:N	4:9:349:LEU:CD1	2.29	0.95
1:D:813:ILE:HG23	2:E:128:PHE:CE1	1.99	0.95
1:G:508:ILE:HD11	1:G:759:ALA:CB	1.96	0.95
1:J:538:GLU:N	4:W:349:LEU:CD1	2.28	0.95
1:J:768:MLY:HH11	1:J:772:LEU:CD1	1.92	0.95
1:M:215:GLN:H	1:M:340:ILE:CG1	1.72	0.95
1:P:213:LYS:HA	1:P:220:ASP:CG	1.90	0.95
1:A:541:MET:N	4:8:349:LEU:HD21	1.80	0.95
1:D:549:SER:C	4:W:46:GLY:HA3	1.90	0.95
1:G:832:MET:SD	2:H:84:PHE:CE2	2.59	0.95
1:J:798:LEU:CG	3:L:126:LEU:HD11	1.95	0.95
2:N:117:LEU:HD13	2:N:147:ASN:OD1	1.64	0.95
1:P:543:PRO:CG	4:1:143:TYR:O	2.14	0.95
1:A:93:MET:CE	1:A:716:LEU:H	1.79	0.95
1:A:538:GLU:N	4:8:349:LEU:CD1	2.28	0.95
1:A:543:PRO:CG	4:8:143:TYR:O	2.14	0.95
1:D:712:PRO:CG	1:D:771:LEU:HB2	1.95	0.95
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.95
1:G:813:ILE:CG2	2:H:128:PHE:HE1	1.70	0.95
1:J:642:LYS:HG2	4:W:21:PHE:O	1.65	0.95
1:P:649:VAL:CG1	1:P:649:VAL:CG2	2.44	0.95
4:2:203:THR:HB	4:Z:287:ILE:CD1	1.96	0.95
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.95
1:D:642:LYS:HG2	4:9:21:PHE:O	1.65	0.95
2:E:121:LEU:HG	2:E:128:PHE:HA	1.47	0.95
1:G:92:ALA:O	1:G:714:ARG:CG	2.13	0.95
1:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.95
1:J:292:MET:HE1	1:J:309:PRO:HA	1.47	0.95
1:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.95
1:J:538:GLU:HG3	4:W:352:PHE:N	1.82	0.95
1:M:642:LYS:HG2	4:Z:21:PHE:O	1.65	0.95
1:P:530:MET:CE	4:1:354:GLN:CG	2.40	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:538:GLU:N	4:1:349:LEU:CD1	2.28	0.95
4:4:288:ASP:H	4:6:203:THR:HG22	1.30	0.95
4:8:288:ASP:HA	4:V:204:ALA:HB2	1.48	0.95
1:G:292:MET:HE1	1:G:309:PRO:HA	1.47	0.95
1:M:649:VAL:CG1	1:M:649:VAL:CG2	2.43	0.95
1:M:832:MET:SD	2:N:84:PHE:HE2	1.90	0.95
2:Q:121:LEU:HG	2:Q:128:PHE:HA	1.47	0.95
1:D:538:GLU:HG3	4:9:352:PHE:N	1.82	0.95
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.95
1:G:97:LEU:HD22	1:G:712:PRO:CB	1.93	0.95
1:G:543:PRO:CG	4:V:143:TYR:O	2.15	0.95
1:G:795:ARG:NH2	3:I:116:GLU:CG	2.29	0.95
1:G:817:GLN:CG	2:H:127:ARG:CB	2.43	0.95
1:J:800:ARG:NH2	3:L:40:ASN:CG	2.23	0.95
4:3:288:ASP:N	4:5:203:THR:HG22	1.80	0.95
1:A:508:ILE:HD13	1:A:759:ALA:HB1	1.18	0.95
1:D:530:MET:HA	4:9:354:GLN:HG3	0.96	0.95
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.95
1:G:649:VAL:CG1	1:G:649:VAL:CG2	2.44	0.95
1:G:789:ALA:CB	3:I:81:GLN:CD	2.39	0.95
1:G:797:PHE:HE2	3:I:126:LEU:CD2	1.61	0.95
2:K:121:LEU:HG	2:K:128:PHE:HA	1.47	0.95
1:M:736:GLN:CA	1:M:743:ALA:HB2	1.95	0.95
1:A:149:GLN:HB3	1:A:718:ALA:C	1.91	0.95
1:A:635:GLY:HA3	4:8:334:GLU:HG2	1.47	0.95
1:D:732:ILE:HG21	1:D:782:MLY:HH21	0.96	0.95
1:J:795:ARG:HH21	3:L:116:GLU:CG	1.79	0.95
1:M:797:PHE:CE2	3:O:146:ILE:HD12	2.02	0.95
1:P:410:ASN:OD1	4:1:334:GLU:C	2.10	0.95
1:P:649:VAL:CG1	1:P:649:VAL:C	2.38	0.95
1:P:735:GLY:C	1:P:743:ALA:HA	1.91	0.95
1:P:786:ILE:O	1:P:789:ALA:HB3	1.66	0.95
1:P:795:ARG:HB2	3:R:35:ARG:HH12	1.32	0.95
1:P:821:ARG:HH22	2:Q:127:ARG:HG2	1.16	0.95
3:R:46:ILE:O	3:R:50:LEU:HG	1.64	0.95
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	0.95
2:E:150:TYR:O	2:E:151:LYS:HG3	1.65	0.95
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	0.95
1:G:642:LYS:CG	4:V:23:GLY:H	1.76	0.95
1:G:820:VAL:CG1	2:H:136:MET:HE1	1.96	0.95
2:H:144:VAL:HG13	2:H:153:ILE:HG12	1.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	0.95
1:J:792:ALA:N	3:L:42:THR:HG22	1.81	0.95
2:K:150:TYR:O	2:K:151:LYS:HG3	1.65	0.95
1:M:829:TRP:CZ3	2:N:87:LYS:NZ	2.34	0.95
2:N:149:ASP:CG	2:N:150:TYR:H	1.73	0.95
2:N:150:TYR:O	2:N:151:LYS:HG3	1.65	0.95
1:P:546:THR:HG22	1:P:548:THR:H	1.32	0.95
1:P:795:ARG:NE	3:R:116:GLU:CB	2.24	0.95
1:A:557:GLU:N	4:V:48:GLY:CA	2.12	0.94
1:A:637:LYS:NZ	4:8:141:SER:O	1.99	0.94
1:A:709:LYS:C	1:A:710:GLY:HA3	1.90	0.94
1:G:534:SER:O	4:V:351:THR:HG23	1.12	0.94
1:G:817:GLN:CG	2:H:127:ARG:HD2	1.96	0.94
2:H:117:LEU:HD13	2:H:147:ASN:OD1	1.64	0.94
1:M:215:GLN:HA	1:M:340:ILE:HG23	0.95	0.94
1:M:546:THR:HG22	1:M:548:THR:H	1.32	0.94
1:M:642:LYS:CG	4:Z:23:GLY:H	1.77	0.94
1:P:541:MET:N	4:1:349:LEU:HD21	1.80	0.94
4:X:324:THR:CG2	4:Z:247:VAL:HG23	1.93	0.94
1:A:502:GLU:HG3	1:A:760:PHE:C	1.92	0.94
1:D:530:MET:CE	4:9:354:GLN:CG	2.40	0.94
1:D:541:MET:N	4:9:349:LEU:HD21	1.80	0.94
1:G:538:GLU:N	4:V:349:LEU:CD1	2.29	0.94
1:G:567:LYS:HZ2	4:X:92:ASN:HD22	1.10	0.94
3:I:46:ILE:O	3:I:50:LEU:HG	1.64	0.94
1:J:649:VAL:CG1	1:J:649:VAL:CG2	2.44	0.94
1:J:769:ALA:CB	1:J:770:GLY:HA2	1.97	0.94
1:J:799:MET:SD	3:L:32:ASP:HB3	2.08	0.94
2:K:150:TYR:O	2:K:151:LYS:HB2	1.67	0.94
1:M:767:PHE:CE1	1:M:771:LEU:CD2	2.50	0.94
2:N:150:TYR:O	2:N:151:LYS:CG	2.15	0.94
1:P:630:ALA:O	4:1:25:ASP:CG	2.09	0.94
1:A:93:MET:CE	1:A:715:VAL:HG13	1.96	0.94
1:D:292:MET:HE1	1:D:309:PRO:HA	1.47	0.94
2:E:162:ASP:O	2:K:21:GLU:HB2	1.67	0.94
1:G:635:GLY:HA3	4:V:334:GLU:HG2	1.47	0.94
1:G:838:ILE:HD11	2:H:54:MET:HE1	1.48	0.94
1:J:630:ALA:O	4:W:25:ASP:CG	2.09	0.94
1:J:710:GLY:C	1:J:772:LEU:HD23	1.92	0.94
1:D:546:THR:HG22	1:D:548:THR:H	1.32	0.94
1:G:797:PHE:HZ	3:I:146:ILE:CD1	1.64	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:150:TYR:O	2:H:151:LYS:CG	2.15	0.94
1:M:637:LYS:NZ	4:Z:141:SER:O	1.99	0.94
1:P:832:MET:SD	2:Q:84:PHE:HE2	1.89	0.94
1:A:530:MET:HA	4:8:354:GLN:HG3	0.96	0.94
2:E:150:TYR:O	2:E:151:LYS:CG	2.15	0.94
1:G:215:GLN:HA	1:G:340:ILE:HG23	0.95	0.94
1:G:530:MET:HA	4:V:354:GLN:HG3	0.97	0.94
2:H:150:TYR:O	2:H:151:LYS:HG3	1.65	0.94
1:M:292:MET:HE1	1:M:309:PRO:HA	1.48	0.94
1:M:795:ARG:CG	3:O:118:MET:CE	2.22	0.94
2:N:150:TYR:O	2:N:151:LYS:HB2	1.67	0.94
2:Q:150:TYR:O	2:Q:151:LYS:CG	2.15	0.94
1:A:95:THR:HG1	1:A:769:ALA:CA	1.69	0.94
1:A:538:GLU:HG3	4:8:352:PHE:N	1.82	0.94
1:M:538:GLU:HG3	4:Z:352:PHE:N	1.81	0.94
1:M:630:ALA:O	4:Z:25:ASP:CG	2.09	0.94
1:P:218:LEU:CB	1:P:221:GLN:CG	2.46	0.94
1:P:576:GLU:CG	1:P:577:ALA:H	1.75	0.94
1:P:736:GLN:CA	1:P:743:ALA:HB2	1.95	0.94
1:A:149:GLN:HG3	1:A:719:ASP:OD1	1.66	0.94
1:A:501:GLU:HG2	1:A:762:HIS:CE1	2.01	0.94
1:A:630:ALA:O	4:8:25:ASP:CG	2.10	0.94
1:D:553:MLY:CB	4:W:46:GLY:CA	2.32	0.94
1:G:795:ARG:NH2	3:I:116:GLU:HG2	1.83	0.94
1:J:530:MET:HA	4:W:354:GLN:HG3	0.96	0.94
1:J:543:PRO:CG	4:W:143:TYR:O	2.14	0.94
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.59	0.94
1:M:817:GLN:CD	2:N:127:ARG:HB2	1.92	0.94
1:D:543:PRO:CG	4:9:143:TYR:O	2.14	0.94
1:D:727:LEU:HD13	1:D:782:MLY:HH12	1.47	0.94
1:G:612:GLN:NE2	1:G:627:GLY:CA	2.31	0.94
1:G:819:ASN:CB	2:H:90:GLY:O	2.16	0.94
1:J:831:TRP:CZ2	2:K:47:LEU:CD2	2.50	0.94
1:M:538:GLU:N	4:Z:349:LEU:CD1	2.28	0.94
1:M:797:PHE:CE1	3:O:146:ILE:HD13	2.02	0.94
1:P:538:GLU:HG3	4:1:352:PHE:N	1.81	0.94
1:P:796:GLY:CA	3:R:35:ARG:HD3	1.96	0.94
4:2:204:ALA:H	4:Z:287:ILE:CG2	1.81	0.94
1:D:206:LYS:CD	1:D:217:THR:CG2	2.16	0.94
1:D:530:MET:CA	4:9:354:GLN:CG	2.45	0.94
1:G:637:LYS:NZ	4:V:141:SER:O	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:795:ARG:HH21	3:I:116:GLU:HG2	1.33	0.94
1:J:215:GLN:H	1:J:340:ILE:CG1	1.72	0.94
1:J:546:THR:HG22	1:J:548:THR:H	1.32	0.94
1:M:530:MET:HA	4:Z:354:GLN:HG3	0.96	0.94
1:M:612:GLN:NE2	1:M:627:GLY:CA	2.31	0.94
1:A:410:ASN:OD1	4:8:334:GLU:C	2.10	0.94
1:D:612:GLN:NE2	1:D:627:GLY:HA3	1.83	0.94
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.48	0.94
1:J:84:MLY:HH22	1:J:719:ASP:O	1.66	0.94
1:M:218:LEU:CB	1:M:221:GLN:CG	2.46	0.94
1:P:709:LYS:C	1:P:710:GLY:CA	2.41	0.94
4:2:322:PRO:HB3	4:4:244:ASP:CG	1.93	0.94
1:A:612:GLN:NE2	1:A:627:GLY:CA	2.31	0.93
1:J:768:MLY:CH1	1:J:772:LEU:HD12	1.97	0.93
2:K:150:TYR:O	2:K:151:LYS:CG	2.15	0.93
1:M:410:ASN:OD1	4:Z:334:GLU:C	2.10	0.93
1:M:612:GLN:NE2	1:M:627:GLY:HA3	1.83	0.93
1:P:635:GLY:HA3	4:1:334:GLU:HG2	1.47	0.93
4:4:287:ILE:HD13	4:6:203:THR:CB	1.92	0.93
1:A:149:GLN:HE21	1:A:718:ALA:CB	1.66	0.93
1:J:215:GLN:HA	1:J:340:ILE:HG23	0.95	0.93
2:Q:150:TYR:O	2:Q:151:LYS:HB2	1.67	0.93
4:2:287:ILE:CD1	4:4:203:THR:HB	1.98	0.93
4:2:288:ASP:N	4:4:203:THR:HG22	1.82	0.93
1:A:546:THR:HG22	1:A:548:THR:H	1.32	0.93
1:G:93:MET:HE2	1:G:764:MLY:HD3	0.94	0.93
1:G:752:ASP:C	1:G:780:ASP:OD1	2.12	0.93
1:M:530:MET:CE	4:Z:354:GLN:CG	2.41	0.93
1:M:541:MET:N	4:Z:349:LEU:HD21	1.80	0.93
1:M:545:ALA:CA	4:2:45:VAL:HG13	1.87	0.93
1:M:834:LEU:HD12	2:N:51:PHE:HE1	1.14	0.93
1:P:817:GLN:CD	2:Q:127:ARG:CB	2.41	0.93
1:P:829:TRP:CZ2	2:Q:87:LYS:HE2	2.03	0.93
4:2:244:ASP:HB3	4:Z:322:PRO:HB3	1.48	0.93
1:G:739:ASP:HB3	1:G:742:LYS:CB	1.99	0.93
1:J:836:PHE:HE1	2:K:159:HIS:HA	1.26	0.93
1:M:795:ARG:NH2	3:O:116:GLU:CB	2.32	0.93
1:M:795:ARG:HH21	3:O:116:GLU:CB	1.81	0.93
1:P:215:GLN:HA	1:P:340:ILE:HG23	0.95	0.93
1:P:530:MET:CA	4:1:354:GLN:CG	2.45	0.93
1:P:804:ARG:HG2	1:P:808:GLU:HG3	0.94	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:287:ILE:HG12	4:Z:201:VAL:H	1.29	0.93
1:A:639:GLY:N	4:8:345:ILE:N	1.94	0.93
1:G:541:MET:N	4:V:349:LEU:HD21	1.80	0.93
1:M:729:ALA:HB3	3:O:86:ASP:OD1	1.67	0.93
1:M:739:ASP:HB3	1:M:742:LYS:CB	1.99	0.93
1:P:612:GLN:NE2	1:P:627:GLY:HA3	1.83	0.93
1:P:735:GLY:C	1:P:743:ALA:HB2	1.82	0.93
1:P:804:ARG:O	1:P:808:GLU:N	2.00	0.93
4:2:287:ILE:HB	4:4:203:THR:N	1.82	0.93
1:G:817:GLN:CD	2:H:127:ARG:CB	2.41	0.93
1:J:612:GLN:NE2	1:J:627:GLY:HA3	1.83	0.93
1:J:642:LYS:CB	4:W:21:PHE:O	2.17	0.93
1:M:530:MET:CA	4:Z:354:GLN:CG	2.44	0.93
1:P:642:LYS:CB	4:1:21:PHE:O	2.17	0.93
4:1:244:ASP:N	4:Y:291:LYS:CD	2.31	0.93
1:D:836:PHE:CE1	2:E:159:HIS:HB2	2.02	0.93
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	0.93
1:M:786:ILE:CG2	1:M:787:ILE:N	2.31	0.93
1:P:733:PRO:CG	3:R:85:GLU:HG2	1.98	0.93
1:D:648:THR:HG21	1:D:651:ALA:HB2	1.50	0.93
2:E:150:TYR:O	2:E:151:LYS:HB2	1.67	0.93
1:G:94:MET:O	1:G:713:SER:HB3	1.69	0.93
1:J:206:LYS:CD	1:J:217:THR:CG2	2.16	0.93
1:J:817:GLN:HG2	2:K:127:ARG:CD	1.98	0.93
1:M:817:GLN:HG2	2:N:127:ARG:CB	1.98	0.93
1:D:823:PHE:CD1	2:E:160:GLY:CA	2.44	0.93
1:J:530:MET:CA	4:W:354:GLN:CG	2.45	0.93
1:J:553:MLY:HE3	4:Y:45:VAL:HG11	1.47	0.93
1:M:95:THR:HG1	1:M:770:GLY:CA	1.81	0.93
1:M:767:PHE:HD1	1:M:771:LEU:HD22	1.25	0.93
1:P:530:MET:HA	4:1:354:GLN:HG3	0.96	0.93
1:P:817:GLN:CD	2:Q:127:ARG:CD	2.42	0.93
1:G:612:GLN:NE2	1:G:627:GLY:HA3	1.83	0.93
1:G:642:LYS:CB	4:V:21:PHE:O	2.17	0.93
1:J:629:GLU:CB	1:J:643:GLY:O	2.17	0.93
1:P:629:GLU:CB	1:P:643:GLY:O	2.17	0.93
1:A:538:GLU:N	4:8:351:THR:H	1.67	0.92
1:A:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.92
1:D:713:SER:CB	1:D:775:LEU:HD22	1.99	0.92
1:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.92
1:J:792:ALA:HB2	3:L:42:THR:HG23	0.95	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:552:ASN:O	4:2:49:GLN:HB2	1.13	0.92
1:M:648:THR:HG21	1:M:651:ALA:HB2	1.50	0.92
1:A:642:LYS:CG	4:8:23:GLY:H	1.77	0.92
1:D:553:MLY:HB3	4:W:46:GLY:HA2	1.47	0.92
1:G:546:THR:HG22	1:G:548:THR:H	1.32	0.92
1:G:818:TYR:CE1	2:H:127:ARG:CZ	2.51	0.92
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.92
1:M:709:LYS:N	1:M:710:GLY:N	2.16	0.92
1:M:826:VAL:HG21	2:N:88:LEU:CD2	1.99	0.92
1:D:724:TYR:HB3	1:D:782:MLY:HD3	1.48	0.92
1:D:727:LEU:CG	1:D:782:MLY:HH12	1.98	0.92
1:G:817:GLN:CD	2:H:127:ARG:CG	2.43	0.92
1:G:819:ASN:CG	2:H:92:ASP:CB	2.42	0.92
1:J:93:MET:HE1	1:J:716:LEU:HD12	1.50	0.92
1:M:830:PRO:CG	2:N:67:MET:HE2	1.97	0.92
1:P:534:SER:O	4:1:351:THR:HG23	1.13	0.92
1:P:638:GLY:HA3	4:1:341:ILE:O	1.70	0.92
1:A:93:MET:HE2	1:A:715:VAL:HA	0.93	0.92
1:A:642:LYS:CB	4:8:21:PHE:O	2.17	0.92
1:J:638:GLY:HA3	4:W:341:ILE:O	1.70	0.92
4:X:291:LYS:CD	4:Z:243:PRO:C	2.42	0.92
1:A:215:GLN:H	1:A:340:ILE:CG1	1.73	0.92
1:A:530:MET:CA	4:8:354:GLN:CG	2.44	0.92
1:A:557:GLU:H	4:V:48:GLY:HA2	1.32	0.92
1:A:739:ASP:HB3	1:A:742:LYS:CB	1.99	0.92
1:D:800:ARG:HD3	3:F:149:VAL:C	1.95	0.92
1:G:537:GLU:O	4:V:349:LEU:HD13	0.74	0.92
2:H:121:LEU:CB	2:H:128:PHE:HB3	1.69	0.92
1:P:612:GLN:NE2	1:P:627:GLY:CA	2.31	0.92
1:P:642:LYS:CG	4:1:23:GLY:H	1.77	0.92
2:Q:149:ASP:CG	2:Q:150:TYR:H	1.73	0.92
1:A:557:GLU:H	4:V:48:GLY:HA3	1.29	0.92
1:D:629:GLU:CB	1:D:643:GLY:O	2.17	0.92
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.99	0.92
1:J:739:ASP:HB3	1:J:742:LYS:CB	1.98	0.92
1:P:736:GLN:HA	1:P:743:ALA:HB2	1.51	0.92
1:A:636:LYS:HD2	4:8:332:PRO:HB3	1.51	0.92
1:D:215:GLN:HA	1:D:340:ILE:HG23	0.95	0.92
1:D:819:ASN:N	2:E:90:GLY:O	2.03	0.92
1:M:795:ARG:HA	3:O:118:MET:HE1	1.45	0.92
1:P:549:SER:N	4:3:47:MET:O	2.02	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:641:LYS:HE3	1:P:647:GLN:CG	2.00	0.92
1:P:739:ASP:HB3	1:P:742:LYS:CB	1.99	0.92
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	0.92
1:D:641:LYS:HE3	1:D:647:GLN:CG	2.00	0.92
1:G:530:MET:CA	4:V:354:GLN:CG	2.45	0.92
1:J:84:MLY:CH1	1:J:724:TYR:CE2	2.53	0.92
1:J:505:MLY:HD2	1:J:762:HIS:ND1	1.84	0.92
1:M:818:TYR:CZ	2:N:127:ARG:NH1	2.31	0.92
1:P:797:PHE:CE1	3:R:146:ILE:HG23	2.05	0.92
1:A:629:GLU:CB	1:A:643:GLY:O	2.17	0.92
1:D:612:GLN:NE2	1:D:627:GLY:CA	2.31	0.92
1:D:724:TYR:HB3	1:D:782:MLY:NZ	1.85	0.92
1:G:629:GLU:CB	1:G:643:GLY:O	2.17	0.92
1:J:218:LEU:CB	1:J:221:GLN:CG	2.46	0.92
1:M:278:GLN:HG2	1:M:317:GLU:HB2	1.52	0.92
1:M:641:LYS:HE3	1:M:647:GLN:CG	2.00	0.92
1:M:803:TYR:CD1	1:M:807:VAL:HG11	2.05	0.92
1:P:803:TYR:CD1	1:P:807:VAL:CG2	2.53	0.92
4:4:322:PRO:HB2	4:6:244:ASP:HB3	1.49	0.92
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	0.92
4:X:288:ASP:N	4:Z:202:THR:OG1	2.03	0.92
1:A:278:GLN:HG2	1:A:317:GLU:HB2	1.52	0.92
1:A:537:GLU:O	4:8:349:LEU:HD13	0.74	0.92
1:D:642:LYS:CB	4:9:21:PHE:O	2.17	0.92
1:J:612:GLN:NE2	1:J:627:GLY:CA	2.31	0.92
1:M:95:THR:CG2	1:M:770:GLY:HA2	2.00	0.92
1:P:538:GLU:N	4:1:351:THR:H	1.68	0.92
1:P:797:PHE:CE1	3:R:146:ILE:CD1	2.52	0.92
4:X:324:THR:HB	4:Z:246:GLN:HA	1.50	0.92
1:G:795:ARG:CA	3:I:118:MET:HE1	2.00	0.91
1:J:541:MET:N	4:W:349:LEU:HD21	1.80	0.91
1:J:636:LYS:H	4:W:334:GLU:CD	1.78	0.91
1:M:636:LYS:H	4:Z:334:GLU:CD	1.78	0.91
1:M:795:ARG:HD2	3:O:43:ASN:CG	1.92	0.91
4:2:287:ILE:CG1	4:4:202:THR:HB	2.01	0.91
4:W:286:ASP:OD1	4:Y:202:THR:HB	1.69	0.91
1:A:215:GLN:HA	1:A:340:ILE:HG23	0.96	0.91
1:G:218:LEU:CB	1:G:221:GLN:CG	2.46	0.91
1:G:278:GLN:HG2	1:G:317:GLU:HB2	1.52	0.91
1:G:538:GLU:N	4:V:351:THR:H	1.68	0.91
1:G:636:LYS:H	4:V:334:GLU:CD	1.78	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:813:ILE:HG23	2:H:128:PHE:CE1	1.90	0.91
1:M:537:GLU:O	4:Z:349:LEU:HD13	0.73	0.91
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.91
1:D:218:LEU:HA	1:D:221:GLN:CG	2.01	0.91
1:G:636:LYS:HD2	4:V:332:PRO:HB3	1.52	0.91
1:G:819:ASN:HA	2:H:90:GLY:C	1.93	0.91
1:G:830:PRO:HB2	2:H:67:MET:HE2	1.52	0.91
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.91
1:J:800:ARG:HG2	3:L:149:VAL:HG22	1.50	0.91
1:M:538:GLU:N	4:Z:351:THR:H	1.68	0.91
1:M:642:LYS:CB	4:Z:21:PHE:O	2.17	0.91
2:N:121:LEU:HG	2:N:128:PHE:HA	1.47	0.91
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	0.91
1:A:505:MLY:CG	1:A:741:LYS:HZ2	1.83	0.91
1:A:736:GLN:HA	1:A:743:ALA:HB2	1.51	0.91
1:J:218:LEU:HA	1:J:221:GLN:CG	2.01	0.91
1:J:544:LYS:HD2	4:W:147:ARG:HB3	1.53	0.91
1:J:641:LYS:HE3	1:J:647:GLN:CG	2.00	0.91
1:M:218:LEU:HA	1:M:221:GLN:CG	2.01	0.91
1:P:544:LYS:HD2	4:1:147:ARG:HB3	1.53	0.91
1:P:826:VAL:HG21	2:Q:88:LEU:HD21	1.53	0.91
4:1:246:GLN:HA	4:Y:324:THR:OG1	1.70	0.91
4:X:291:LYS:CD	4:Z:243:PRO:HB2	1.99	0.91
1:A:93:MET:HE2	1:A:715:VAL:CB	2.01	0.91
1:A:534:SER:O	4:8:351:THR:HA	1.60	0.91
1:J:795:ARG:CZ	3:L:116:GLU:OE1	2.15	0.91
1:M:829:TRP:CE3	2:N:87:LYS:NZ	2.37	0.91
4:2:287:ILE:CG1	4:4:202:THR:CB	2.48	0.91
1:A:505:MLY:CG	1:A:741:LYS:NZ	2.33	0.91
1:D:218:LEU:CB	1:D:221:GLN:CG	2.46	0.91
1:D:538:GLU:N	4:9:351:THR:H	1.68	0.91
1:D:636:LYS:HD2	4:9:332:PRO:HB3	1.52	0.91
1:D:636:LYS:H	4:9:334:GLU:CD	1.78	0.91
1:G:648:THR:HG21	1:G:651:ALA:HB2	1.50	0.91
1:G:795:ARG:HH21	3:I:116:GLU:CG	1.83	0.91
2:H:150:TYR:O	2:H:151:LYS:HB2	1.67	0.91
1:M:629:GLU:CB	1:M:643:GLY:O	2.17	0.91
1:M:715:VAL:HG23	1:M:772:LEU:HD21	1.52	0.91
1:M:830:PRO:HG2	2:N:67:MET:HG2	1.50	0.91
3:O:62:ALA:O	3:O:63:ILE:CG1	2.19	0.91
1:P:278:GLN:HG2	1:P:317:GLU:HB2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:537:GLU:O	4:1:349:LEU:HD13	0.74	0.91
1:A:502:GLU:HA	1:A:761:GLY:C	1.95	0.91
1:A:505:MLY:CE	1:A:762:HIS:HA	1.88	0.91
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	0.91
1:D:538:GLU:N	4:9:349:LEU:HD12	1.86	0.91
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.91
1:J:537:GLU:O	4:W:349:LEU:HD13	0.74	0.91
1:M:819:ASN:CA	2:N:90:GLY:O	2.18	0.91
1:P:786:ILE:HG22	1:P:787:ILE:N	1.86	0.91
1:P:797:PHE:HZ	3:R:146:ILE:CD1	1.56	0.91
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.96	0.91
1:A:544:LYS:HD2	4:8:147:ARG:HB3	1.53	0.91
1:A:553:MLY:HE2	4:V:45:VAL:HA	1.53	0.91
1:A:648:THR:HG21	1:A:651:ALA:HB2	1.50	0.91
1:A:735:GLY:O	1:A:743:ALA:CA	2.19	0.91
1:A:768:MLY:HB2	1:A:771:LEU:HB2	1.51	0.91
1:D:557:GLU:H	4:W:48:GLY:HA2	1.32	0.91
1:D:649:VAL:CB	1:D:649:VAL:CG2	2.49	0.91
1:D:713:SER:HB2	1:D:775:LEU:CD2	2.01	0.91
1:D:793:ARG:HH21	3:F:147:MET:HE3	1.05	0.91
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.91
3:I:62:ALA:O	3:I:63:ILE:CG1	2.19	0.91
1:J:636:LYS:HD2	4:W:332:PRO:HB3	1.52	0.91
1:J:797:PHE:HD1	3:L:146:ILE:HG23	1.24	0.91
1:M:735:GLY:C	1:M:743:ALA:HB2	1.82	0.91
1:M:804:ARG:O	1:M:808:GLU:HG3	1.70	0.91
1:P:538:GLU:N	4:1:349:LEU:HD12	1.86	0.91
1:A:206:LYS:CD	1:A:217:THR:CG2	2.16	0.91
1:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.91
1:D:550:PHE:HA	4:W:46:GLY:CA	2.00	0.91
1:G:796:GLY:N	3:I:35:ARG:CZ	2.34	0.91
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.91
1:M:793:ARG:HH11	3:O:40:ASN:HD22	1.11	0.91
1:M:834:LEU:HD12	2:N:51:PHE:CD1	2.06	0.91
1:A:218:LEU:HA	1:A:221:GLN:CG	2.01	0.91
1:A:707:CYS:SG	1:A:714:ARG:NH1	2.44	0.91
1:D:534:SER:HA	4:9:350:SER:O	1.71	0.91
1:D:544:LYS:HD2	4:9:147:ARG:HB3	1.53	0.91
1:D:791:GLN:HE22	3:F:116:GLU:N	1.53	0.91
1:G:641:LYS:HE3	1:G:647:GLN:CG	2.00	0.91
1:J:538:GLU:N	4:W:351:THR:H	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:218:LEU:HA	1:P:221:GLN:CG	2.01	0.91
4:V:324:THR:CG2	4:X:247:VAL:H	1.84	0.91
1:A:218:LEU:CB	1:A:221:GLN:CG	2.46	0.90
1:G:752:ASP:OD2	1:G:780:ASP:O	1.87	0.90
1:J:710:GLY:O	1:J:772:LEU:HB2	1.70	0.90
1:M:636:LYS:HD2	4:Z:332:PRO:HB3	1.52	0.90
1:M:818:TYR:HB3	2:N:90:GLY:HA3	1.53	0.90
1:P:636:LYS:H	4:1:334:GLU:CD	1.78	0.90
1:P:648:THR:HG21	1:P:651:ALA:HB2	1.50	0.90
1:P:804:ARG:CA	1:P:807:VAL:CB	2.48	0.90
2:Q:137:TRP:HA	2:Q:145:ALA:HB2	1.54	0.90
4:1:287:ILE:HG23	4:3:202:THR:HB	1.53	0.90
4:X:291:LYS:HD2	4:Z:244:ASP:H	1.23	0.90
1:D:735:GLY:O	1:D:743:ALA:CA	2.19	0.90
1:J:826:VAL:HG21	2:K:88:LEU:HD23	1.51	0.90
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	0.90
1:M:552:ASN:HD22	4:2:47:MET:HB3	1.11	0.90
1:P:834:LEU:HD12	2:Q:51:PHE:CD1	2.06	0.90
1:A:649:VAL:CG2	1:A:649:VAL:HG13	2.02	0.90
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.90
1:P:649:VAL:CB	1:P:649:VAL:CG2	2.49	0.90
1:P:817:GLN:OE1	2:Q:127:ARG:CD	2.19	0.90
1:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.90
1:G:792:ALA:CB	3:I:42:THR:N	2.34	0.90
2:H:117:LEU:CG	2:H:147:ASN:CG	2.45	0.90
1:J:754:ASP:C	1:J:780:ASP:OD2	2.13	0.90
1:M:730:SER:HA	3:O:89:GLU:CD	1.95	0.90
2:N:137:TRP:HA	2:N:145:ALA:HB2	1.54	0.90
4:V:286:ASP:OD2	4:X:203:THR:HG22	1.69	0.90
1:A:641:LYS:HE3	1:A:647:GLN:CG	2.00	0.90
1:J:278:GLN:HG2	1:J:317:GLU:HB2	1.52	0.90
4:1:247:VAL:HG23	4:Y:324:THR:CG2	1.99	0.90
1:A:95:THR:OG1	1:A:769:ALA:C	2.14	0.90
1:A:550:PHE:HA	4:V:46:GLY:CA	2.01	0.90
1:D:278:GLN:HG2	1:D:317:GLU:HB2	1.52	0.90
1:G:538:GLU:N	4:V:349:LEU:HD12	1.87	0.90
1:G:649:VAL:CG2	1:G:649:VAL:HG13	2.02	0.90
1:G:754:ASP:N	1:G:779:ARG:CD	2.35	0.90
1:G:567:LYS:HZ1	4:X:92:ASN:HD22	1.14	0.90
1:J:629:GLU:HG2	1:J:643:GLY:O	1.72	0.90
3:L:62:ALA:O	3:L:63:ILE:CG1	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:62:ALA:O	3:L:63:ILE:HG12	1.71	0.90
1:P:508:ILE:HD11	1:P:766:PHE:CG	2.07	0.90
1:P:735:GLY:O	1:P:743:ALA:CA	2.19	0.90
1:A:95:THR:HG1	1:A:769:ALA:HA	0.78	0.90
1:A:735:GLY:C	1:A:743:ALA:HB1	1.84	0.90
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.54	0.90
1:G:721:LYS:CB	1:G:736:GLN:OE1	2.20	0.90
1:J:561:LYS:HE3	4:Y:48:GLY:HA3	1.51	0.90
1:P:707:CYS:O	1:P:710:GLY:N	2.05	0.90
1:P:786:ILE:C	1:P:787:ILE:N	2.30	0.90
1:P:834:LEU:HD12	2:Q:51:PHE:HE1	1.07	0.90
2:Q:117:LEU:CG	2:Q:147:ASN:CG	2.44	0.90
4:2:287:ILE:CD1	4:4:203:THR:N	2.34	0.90
1:A:638:GLY:HA3	4:8:341:ILE:O	1.70	0.90
1:D:507:GLY:HA3	1:D:762:HIS:CG	2.06	0.90
3:F:62:ALA:O	3:F:63:ILE:HG12	1.71	0.90
1:G:544:LYS:HD2	4:V:147:ARG:HB3	1.53	0.90
1:M:721:LYS:CB	1:M:736:GLN:OE1	2.20	0.90
3:O:24:LYS:HB3	3:O:63:ILE:O	1.72	0.90
1:P:649:VAL:CG2	1:P:649:VAL:HG13	2.02	0.90
1:A:550:PHE:CA	4:V:46:GLY:HA3	2.02	0.90
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	0.90
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.90
1:J:792:ALA:CB	3:L:42:THR:HG23	1.86	0.90
1:M:544:LYS:HD2	4:Z:147:ARG:HB3	1.53	0.90
1:M:649:VAL:CG2	1:M:649:VAL:HG13	2.02	0.90
3:O:62:ALA:O	3:O:63:ILE:HG12	1.71	0.90
1:P:215:GLN:H	1:P:340:ILE:CG1	1.73	0.90
1:P:546:THR:HB	4:3:47:MET:O	1.72	0.90
2:Q:121:LEU:CA	2:Q:128:PHE:CB	2.47	0.90
1:D:599:ASN:OD1	1:D:649:VAL:HB	1.72	0.89
3:F:62:ALA:O	3:F:63:ILE:CG1	2.19	0.89
1:G:218:LEU:HA	1:G:221:GLN:CG	2.01	0.89
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.54	0.89
3:L:24:LYS:HB3	3:L:63:ILE:O	1.72	0.89
1:M:630:ALA:C	4:Z:25:ASP:OD2	2.15	0.89
1:P:640:LYS:C	4:1:23:GLY:O	2.16	0.89
1:P:641:LYS:CD	1:P:647:GLN:OE1	2.18	0.89
1:P:804:ARG:CA	1:P:807:VAL:HB	1.92	0.89
1:A:538:GLU:O	4:8:349:LEU:CG	2.20	0.89
1:A:629:GLU:HG2	1:A:643:GLY:O	1.72	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:735:GLY:O	1:G:743:ALA:CA	2.19	0.89
1:G:813:ILE:HG23	2:H:128:PHE:HZ	1.34	0.89
1:M:538:GLU:O	4:Z:349:LEU:CG	2.20	0.89
1:M:820:VAL:HG11	2:N:136:MET:HE1	0.90	0.89
1:P:538:GLU:O	4:1:349:LEU:CG	2.20	0.89
1:A:649:VAL:CB	1:A:649:VAL:CG2	2.50	0.89
1:G:797:PHE:CZ	3:I:146:ILE:HD13	2.06	0.89
1:J:797:PHE:HE1	3:L:146:ILE:CA	1.76	0.89
1:J:829:TRP:CH2	2:K:84:PHE:CD1	2.60	0.89
1:J:836:PHE:CZ	2:K:160:GLY:N	2.38	0.89
2:N:117:LEU:CG	2:N:147:ASN:CG	2.44	0.89
1:P:721:LYS:CB	1:P:736:GLN:OE1	2.20	0.89
1:A:721:LYS:CB	1:A:736:GLN:OE1	2.20	0.89
1:D:638:GLY:HA3	4:9:341:ILE:O	1.70	0.89
1:D:726:VAL:HG12	1:D:785:GLU:HG3	1.52	0.89
1:G:94:MET:C	1:G:713:SER:HB3	1.96	0.89
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.54	0.89
1:G:817:GLN:CG	2:H:127:ARG:CD	2.49	0.89
1:J:97:LEU:HD23	1:J:712:PRO:HB3	1.54	0.89
1:J:534:SER:HA	4:W:350:SER:O	1.71	0.89
1:M:649:VAL:CB	1:M:649:VAL:CG2	2.49	0.89
1:P:830:PRO:CG	2:Q:67:MET:HE2	2.01	0.89
4:1:246:GLN:CA	4:Y:324:THR:HB	2.01	0.89
4:2:287:ILE:HG21	4:4:202:THR:CB	2.02	0.89
1:A:149:GLN:CB	1:A:719:ASP:N	2.34	0.89
1:A:553:MLY:CG	4:V:44:MET:O	2.20	0.89
1:D:640:LYS:C	4:9:23:GLY:O	2.15	0.89
1:D:800:ARG:CD	3:F:149:VAL:C	2.45	0.89
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.50	0.89
1:M:783:LEU:CG	1:M:786:ILE:HD12	2.01	0.89
1:P:107:MLY:HB3	1:P:686:MET:HE2	1.54	0.89
1:P:541:MET:CB	4:1:143:TYR:OH	2.20	0.89
1:P:803:TYR:CD1	1:P:807:VAL:HG21	2.07	0.89
3:R:62:ALA:O	3:R:63:ILE:CG1	2.19	0.89
4:4:288:ASP:OD1	4:6:203:THR:HG23	1.70	0.89
1:A:508:ILE:CG1	1:A:759:ALA:HB1	2.02	0.89
1:G:818:TYR:CZ	2:H:127:ARG:CZ	2.55	0.89
1:J:538:GLU:O	4:W:349:LEU:CG	2.20	0.89
1:M:107:MLY:HB3	1:M:686:MET:HE2	1.54	0.89
1:M:635:GLY:CA	4:Z:341:ILE:HD13	2.02	0.89
1:P:508:ILE:HG23	1:P:759:ALA:HB1	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:530:MET:N	4:1:354:GLN:HB3	1.87	0.89
1:A:107:MLY:HB3	1:A:686:MET:HE2	1.54	0.89
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.89
1:D:726:VAL:CG1	1:D:785:GLU:HG2	1.96	0.89
3:F:24:LYS:HB3	3:F:63:ILE:O	1.72	0.89
1:G:635:GLY:CA	4:V:341:ILE:HD13	2.03	0.89
1:G:638:GLY:HA3	4:V:341:ILE:O	1.70	0.89
3:R:24:LYS:HB3	3:R:63:ILE:O	1.72	0.89
3:R:62:ALA:O	3:R:63:ILE:HG12	1.71	0.89
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.03	0.89
1:G:534:SER:HA	4:V:350:SER:O	1.71	0.89
1:G:538:GLU:O	4:V:349:LEU:CG	2.20	0.89
2:H:137:TRP:HA	2:H:145:ALA:HB2	1.53	0.89
1:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.89
1:J:799:MET:SD	3:L:32:ASP:CB	2.60	0.89
1:M:831:TRP:CZ2	2:N:47:LEU:CD2	2.53	0.89
1:P:534:SER:HA	4:1:350:SER:O	1.71	0.89
1:P:630:ALA:C	4:1:25:ASP:OD2	2.15	0.89
1:A:534:SER:HA	4:8:350:SER:O	1.71	0.89
1:A:641:LYS:HD2	4:8:348:SER:CB	2.03	0.89
1:D:721:LYS:CB	1:D:736:GLN:OE1	2.20	0.89
1:J:530:MET:N	4:W:354:GLN:HB3	1.87	0.89
1:J:541:MET:CB	4:W:143:TYR:OH	2.20	0.89
2:K:137:TRP:HA	2:K:145:ALA:HB2	1.53	0.89
1:M:735:GLY:O	1:M:743:ALA:CA	2.19	0.89
1:P:542:PHE:HA	4:1:143:TYR:HE1	1.34	0.89
1:P:636:LYS:HD2	4:1:332:PRO:HB3	1.52	0.89
1:A:530:MET:N	4:8:354:GLN:HB3	1.87	0.89
1:A:541:MET:CB	4:8:143:TYR:OH	2.20	0.89
1:D:550:PHE:CA	4:W:46:GLY:HA3	2.03	0.89
1:D:726:VAL:O	1:D:785:GLU:HG2	1.72	0.89
1:D:727:LEU:CD1	1:D:782:MLY:CH1	2.46	0.89
1:J:735:GLY:O	1:J:743:ALA:CA	2.19	0.89
1:J:756:THR:CG2	1:J:776:GLU:HA	2.03	0.89
1:M:538:GLU:N	4:Z:349:LEU:HD12	1.86	0.89
1:M:638:GLY:HA3	4:Z:341:ILE:O	1.70	0.89
1:P:642:LYS:HG2	4:1:22:ALA:CA	2.03	0.89
1:D:538:GLU:O	4:9:349:LEU:CG	2.20	0.88
1:D:836:PHE:CZ	2:E:160:GLY:N	2.40	0.88
1:G:215:GLN:H	1:G:340:ILE:HG12	1.06	0.88
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:649:VAL:HG12	1:G:649:VAL:C	1.99	0.88
1:J:542:PHE:HA	4:W:143:TYR:HE1	1.34	0.88
1:J:641:LYS:CD	1:J:647:GLN:OE1	2.18	0.88
1:J:757:GLN:HA	1:J:776:GLU:CG	2.03	0.88
1:M:806:MET:C	1:M:807:VAL:HG23	1.98	0.88
1:M:829:TRP:CZ2	2:N:87:LYS:HE2	2.07	0.88
1:P:641:LYS:HD2	4:1:348:SER:CB	2.02	0.88
1:P:795:ARG:HB3	3:R:35:ARG:HH22	1.38	0.88
4:1:112:PRO:HG3	4:2:195:GLU:O	1.73	0.88
1:A:649:VAL:HG12	1:A:649:VAL:C	1.99	0.88
1:G:629:GLU:HG2	1:G:643:GLY:O	1.73	0.88
1:J:505:MLY:HG3	1:J:762:HIS:CE1	2.09	0.88
1:J:756:THR:HG22	1:J:776:GLU:CA	2.02	0.88
2:K:121:LEU:CA	2:K:128:PHE:CB	2.47	0.88
1:M:206:LYS:CD	1:M:217:THR:CG2	2.16	0.88
1:M:649:VAL:HG12	1:M:649:VAL:C	1.99	0.88
1:A:538:GLU:N	4:8:349:LEU:HD12	1.85	0.88
1:A:635:GLY:HA2	4:8:334:GLU:CG	2.03	0.88
1:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.88
2:E:117:LEU:CG	2:E:147:ASN:CG	2.45	0.88
1:G:641:LYS:HD2	4:V:348:SER:CB	2.03	0.88
1:J:640:LYS:C	4:W:23:GLY:O	2.16	0.88
1:J:642:LYS:CG	4:W:21:PHE:O	2.22	0.88
1:M:797:PHE:HE2	3:O:126:LEU:HD22	1.06	0.88
1:A:502:GLU:OE1	1:A:764:MLY:N	2.06	0.88
1:A:630:ALA:C	4:8:25:ASP:OD2	2.15	0.88
2:E:137:TRP:HA	2:E:145:ALA:CB	2.04	0.88
1:G:640:LYS:C	4:V:23:GLY:O	2.16	0.88
1:M:642:LYS:HG2	4:Z:22:ALA:CA	2.03	0.88
4:4:287:ILE:CG2	4:6:204:ALA:H	1.87	0.88
4:X:324:THR:CB	4:Z:246:GLN:HA	2.03	0.88
1:A:640:LYS:C	4:8:23:GLY:O	2.15	0.88
1:D:553:MLY:CG	4:W:44:MET:O	2.20	0.88
1:D:642:LYS:HG2	4:9:22:ALA:CA	2.04	0.88
1:J:829:TRP:HZ2	2:K:83:MET:CE	1.86	0.88
2:K:137:TRP:HA	2:K:145:ALA:CB	2.04	0.88
1:M:541:MET:CB	4:Z:143:TYR:OH	2.20	0.88
1:M:793:ARG:HH12	3:O:40:ASN:HD22	1.13	0.88
2:Q:137:TRP:HA	2:Q:145:ALA:CB	2.04	0.88
1:A:215:GLN:H	1:A:340:ILE:HG12	1.06	0.88
1:A:599:ASN:OD1	1:A:649:VAL:HB	1.72	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:649:VAL:CG2	1:J:649:VAL:HG13	2.02	0.88
1:J:721:LYS:CB	1:J:736:GLN:OE1	2.20	0.88
1:M:530:MET:N	4:Z:354:GLN:HB3	1.87	0.88
1:P:635:GLY:CA	4:1:341:ILE:HD13	2.02	0.88
1:D:712:PRO:HG2	1:D:771:LEU:CB	2.03	0.88
1:J:756:THR:CA	1:J:776:GLU:OE1	2.22	0.88
1:J:799:MET:SD	3:L:32:ASP:CG	2.57	0.88
1:M:640:LYS:C	4:Z:23:GLY:O	2.15	0.88
1:M:642:LYS:CG	4:Z:21:PHE:O	2.22	0.88
1:P:641:LYS:HG3	1:P:647:GLN:NE2	1.59	0.88
1:A:505:MLY:CH2	1:A:762:HIS:O	2.21	0.88
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.14	0.88
1:G:599:ASN:OD1	1:G:649:VAL:HB	1.72	0.88
1:G:642:LYS:HG2	4:V:22:ALA:CA	2.03	0.88
1:M:534:SER:HA	4:Z:350:SER:O	1.71	0.88
4:1:167:GLU:OE1	4:3:43:VAL:O	1.91	0.88
1:A:501:GLU:CA	1:A:762:HIS:CE1	2.56	0.88
1:D:541:MET:CB	4:9:143:TYR:OH	2.21	0.88
1:D:642:LYS:CG	4:9:21:PHE:O	2.22	0.88
1:G:84:MLY:HH21	1:G:720:PHE:HA	1.53	0.88
1:J:769:ALA:CB	1:J:770:GLY:CA	2.52	0.88
1:J:800:ARG:NH2	3:L:40:ASN:ND2	2.21	0.88
1:M:556:ASP:H	4:2:49:GLN:CB	1.85	0.88
1:G:541:MET:CB	4:V:143:TYR:OH	2.21	0.88
1:G:553:MLY:NZ	4:X:45:VAL:HG11	1.88	0.88
1:J:635:GLY:CA	4:W:341:ILE:HD13	2.02	0.88
1:M:641:LYS:HG3	1:M:647:GLN:NE2	1.59	0.88
1:M:641:LYS:HD2	4:Z:348:SER:CB	2.03	0.88
1:P:629:GLU:HG2	1:P:643:GLY:O	1.72	0.88
1:D:724:TYR:CG	1:D:782:MLY:HD3	2.09	0.87
1:G:754:ASP:HA	1:G:779:ARG:HD3	1.53	0.87
1:J:642:LYS:HG2	4:W:22:ALA:CA	2.04	0.87
1:P:795:ARG:CZ	3:R:116:GLU:CG	2.50	0.87
1:A:642:LYS:CG	4:8:21:PHE:O	2.22	0.87
1:D:542:PHE:HA	4:9:143:TYR:HE1	1.34	0.87
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.54	0.87
1:D:649:VAL:CG2	1:D:649:VAL:HG13	2.02	0.87
1:G:72:VAL:CG1	1:G:76:GLN:HB3	2.05	0.87
1:G:791:GLN:HE21	3:I:115:GLY:HA3	1.29	0.87
1:G:829:TRP:CZ3	2:H:87:LYS:NZ	2.42	0.87
1:M:552:ASN:HD22	4:2:47:MET:CB	1.85	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:629:GLU:HG2	1:M:643:GLY:O	1.72	0.87
2:N:137:TRP:HA	2:N:145:ALA:CB	2.04	0.87
1:P:215:GLN:H	1:P:340:ILE:HG12	1.05	0.87
1:P:642:LYS:CG	4:1:21:PHE:O	2.22	0.87
4:2:287:ILE:HB	4:4:203:THR:CG2	2.04	0.87
1:A:72:VAL:CG1	1:A:76:GLN:HB3	2.05	0.87
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	0.87
1:G:792:ALA:HB1	3:I:42:THR:N	1.88	0.87
3:L:139:TYR:HA	3:L:142:PHE:HB3	1.56	0.87
1:M:72:VAL:CG1	1:M:76:GLN:HB3	2.05	0.87
1:M:635:GLY:HA2	4:Z:334:GLU:CG	2.03	0.87
1:P:646:PHE:CE2	1:P:652:LEU:CD1	2.58	0.87
1:P:797:PHE:CE1	3:R:146:ILE:HD12	2.09	0.87
1:A:292:MET:HE1	1:A:309:PRO:CA	2.05	0.87
1:D:641:LYS:CD	1:D:647:GLN:OE1	2.17	0.87
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.87
2:E:137:TRP:HA	2:E:145:ALA:HB2	1.54	0.87
2:E:163:ALA:CA	2:K:21:GLU:HB3	2.02	0.87
1:G:553:MLY:CE	4:X:45:VAL:HB	1.91	0.87
1:G:728:ASN:HD21	3:I:114:LEU:HA	1.37	0.87
1:A:93:MET:SD	1:A:715:VAL:HG22	2.13	0.87
1:J:538:GLU:N	4:W:349:LEU:HD12	1.86	0.87
1:J:754:ASP:HA	1:J:780:ASP:OD2	1.75	0.87
2:K:111:SER:OG	2:K:148:VAL:C	2.15	0.87
1:P:639:GLY:CA	4:1:344:SER:C	2.48	0.87
4:2:324:THR:CG2	4:4:244:ASP:HA	2.05	0.87
1:A:534:SER:O	4:8:351:THR:HG23	1.13	0.87
1:A:755:HIS:HA	1:A:758:TYR:CE1	2.10	0.87
1:J:567:LYS:HZ3	4:Y:92:ASN:HD22	1.23	0.87
1:P:72:VAL:CG1	1:P:76:GLN:HB3	2.05	0.87
1:D:635:GLY:CA	4:9:341:ILE:HD13	2.03	0.87
1:D:641:LYS:HD2	4:9:348:SER:CB	2.03	0.87
1:G:292:MET:HE1	1:G:309:PRO:CA	2.05	0.87
1:G:635:GLY:HA2	4:V:334:GLU:CG	2.04	0.87
1:G:755:HIS:HA	1:G:758:TYR:CE1	2.10	0.87
1:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.87
1:M:599:ASN:OD1	1:M:649:VAL:HB	1.73	0.87
1:M:819:ASN:CG	2:N:92:ASP:N	2.29	0.87
1:P:91:MET:HE3	1:P:119:SER:HB2	1.57	0.87
1:P:549:SER:CA	4:3:43:VAL:HG11	2.05	0.87
1:P:803:TYR:CG	1:P:807:VAL:HG21	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:646:PHE:CE2	1:A:652:LEU:CD1	2.58	0.87
1:A:649:VAL:CG1	1:A:649:VAL:CA	2.53	0.87
1:A:736:GLN:CA	1:A:743:ALA:HB2	1.95	0.87
1:D:91:MET:HE3	1:D:119:SER:HB2	1.57	0.87
1:G:84:MLY:CD	1:G:723:ARG:HD2	2.04	0.87
1:G:641:LYS:CD	1:G:647:GLN:OE1	2.17	0.87
3:I:24:LYS:HB3	3:I:63:ILE:O	1.72	0.87
1:J:599:ASN:OD1	1:J:649:VAL:HB	1.73	0.87
1:J:641:LYS:HD2	4:W:348:SER:CB	2.03	0.87
1:J:817:GLN:HB3	2:K:127:ARG:NH1	1.90	0.87
1:P:599:ASN:OD1	1:P:649:VAL:HB	1.73	0.87
1:D:831:TRP:CZ3	2:E:34:ILE:HG23	2.10	0.87
1:D:834:LEU:HD23	2:E:54:MET:HE3	1.57	0.87
1:G:649:VAL:CG1	1:G:649:VAL:CA	2.53	0.87
2:H:137:TRP:HA	2:H:145:ALA:CB	2.04	0.87
1:J:557:GLU:HA	4:Y:48:GLY:N	1.90	0.87
1:M:215:GLN:H	1:M:340:ILE:HG12	1.05	0.87
3:O:139:TYR:HA	3:O:142:PHE:HB3	1.56	0.87
1:A:28:GLN:HE22	1:A:723:ARG:HH21	0.87	0.86
1:D:649:VAL:CG1	1:D:649:VAL:CA	2.53	0.86
1:D:747:LEU:HD21	1:D:782:MLY:HH11	1.55	0.86
1:G:817:GLN:NE2	2:H:127:ARG:CB	2.38	0.86
1:G:831:TRP:HE1	2:H:67:MET:HB3	0.71	0.86
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	0.86
1:M:292:MET:HE1	1:M:309:PRO:CA	2.05	0.86
1:M:639:GLY:CA	4:Z:344:SER:C	2.48	0.86
1:M:732:ILE:HG23	1:M:747:LEU:HB2	1.57	0.86
4:2:324:THR:HG23	4:4:244:ASP:HA	1.55	0.86
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.86
1:D:72:VAL:CG1	1:D:76:GLN:HB3	2.05	0.86
1:D:795:ARG:NH2	3:F:116:GLU:HB3	1.89	0.86
1:G:817:GLN:HB3	2:H:127:ARG:CD	2.03	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
1:J:768:MLY:CH1	1:J:772:LEU:CD1	2.36	0.86
1:M:829:TRP:CZ3	2:N:84:PHE:CD1	2.62	0.86
1:P:649:VAL:CG1	1:P:649:VAL:CA	2.53	0.86
1:A:530:MET:HG2	4:8:354:GLN:CG	2.05	0.86
1:A:757:GLN:CD	1:A:771:LEU:HD12	1.86	0.86
1:D:639:GLY:CA	4:9:344:SER:C	2.48	0.86
1:G:530:MET:HG2	4:V:354:GLN:CG	2.05	0.86
1:J:646:PHE:CD2	1:J:652:LEU:HD11	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.86
1:M:755:HIS:HA	1:M:758:TYR:CE1	2.10	0.86
1:P:506:GLU:O	1:P:762:HIS:CD2	2.27	0.86
1:P:646:PHE:CD2	1:P:652:LEU:HD11	2.09	0.86
1:A:310:TYR:CZ	1:A:320:ILE:HD11	2.11	0.86
1:D:813:ILE:HD13	2:E:128:PHE:HE1	1.41	0.86
1:D:823:PHE:HE1	2:E:160:GLY:C	1.83	0.86
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.47	0.86
1:J:639:GLY:CA	4:W:344:SER:C	2.48	0.86
1:J:732:ILE:HG23	1:J:747:LEU:HB2	1.57	0.86
1:M:649:VAL:CG1	1:M:649:VAL:CA	2.53	0.86
1:M:767:PHE:CE1	1:M:771:LEU:HD23	2.11	0.86
2:N:121:LEU:CB	2:N:128:PHE:HB3	1.69	0.86
1:P:819:ASN:HD22	2:Q:92:ASP:HB2	1.27	0.86
1:A:508:ILE:HD11	1:A:759:ALA:CA	2.05	0.86
1:A:646:PHE:CD2	1:A:652:LEU:HD11	2.10	0.86
1:J:206:LYS:HD3	1:J:217:THR:CB	2.06	0.86
1:M:725:ARG:CZ	3:O:93:VAL:HG21	2.03	0.86
1:P:799:MET:SD	3:R:32:ASP:OD2	2.32	0.86
4:2:322:PRO:CB	4:4:244:ASP:HB3	2.04	0.86
1:A:91:MET:HE3	1:A:119:SER:HB2	1.57	0.86
1:D:215:GLN:H	1:D:340:ILE:HG12	1.06	0.86
1:D:557:GLU:H	4:W:48:GLY:HA3	1.28	0.86
1:D:735:GLY:C	1:D:743:ALA:HB2	1.82	0.86
2:E:163:ALA:O	2:K:22:THR:N	2.08	0.86
1:P:635:GLY:HA2	4:1:334:GLU:CG	2.03	0.86
4:2:244:ASP:HB3	4:Z:322:PRO:CB	2.05	0.86
1:D:530:MET:HG2	4:9:354:GLN:CG	2.05	0.86
1:G:206:LYS:HD3	1:G:217:THR:CB	2.06	0.86
1:G:215:GLN:H	1:G:340:ILE:CG1	1.73	0.86
1:G:410:ASN:OD1	4:V:334:GLU:CA	2.24	0.86
1:G:553:MLY:CH1	4:X:45:VAL:CG1	2.49	0.86
1:G:797:PHE:CE1	3:I:146:ILE:HG23	2.10	0.86
1:M:534:SER:O	4:Z:351:THR:HG23	1.13	0.86
1:P:206:LYS:HD3	1:P:217:THR:CB	2.06	0.86
1:P:292:MET:HE1	1:P:309:PRO:CA	2.05	0.86
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.86
1:D:646:PHE:CE2	1:D:652:LEU:CD1	2.58	0.86
1:G:310:TYR:CZ	1:G:320:ILE:HD11	2.11	0.86
1:G:556:ASP:CG	4:X:47:MET:HE2	1.84	0.86
1:G:646:PHE:CD2	1:G:652:LEU:HD11	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:797:PHE:CD1	3:I:146:ILE:HG23	2.10	0.86
1:G:813:ILE:HG21	2:H:128:PHE:CE1	2.11	0.86
1:G:830:PRO:HB3	2:H:67:MET:HE2	1.54	0.86
3:I:139:TYR:HA	3:I:142:PHE:HB3	1.56	0.86
4:9:287:ILE:CG2	4:W:205:GLU:HG2	2.05	0.86
4:V:325:MET:HE1	4:X:244:ASP:CG	2.00	0.86
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.86
1:D:732:ILE:HG23	1:D:747:LEU:HB2	1.58	0.86
1:J:557:GLU:HA	4:Y:47:MET:HA	1.04	0.86
1:J:710:GLY:O	1:J:772:LEU:CB	2.23	0.86
1:P:310:TYR:CZ	1:P:320:ILE:HD11	2.11	0.86
4:2:203:THR:CB	4:Z:287:ILE:HD13	2.01	0.86
4:X:287:ILE:CG2	4:Z:201:VAL:HG23	2.06	0.86
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	0.86
1:D:292:MET:HE1	1:D:309:PRO:CA	2.05	0.86
1:J:292:MET:HE1	1:J:309:PRO:CA	2.05	0.86
1:M:91:MET:HE3	1:M:119:SER:HB2	1.57	0.86
1:M:206:LYS:HD3	1:M:217:THR:CB	2.06	0.86
1:M:310:TYR:CZ	1:M:320:ILE:HD11	2.11	0.86
1:M:646:PHE:CD2	1:M:652:LEU:HD11	2.10	0.86
4:2:202:THR:CA	4:Z:287:ILE:CG1	2.52	0.86
1:M:546:THR:O	4:2:46:GLY:HA2	1.62	0.85
1:P:723:ARG:CZ	1:P:779:ARG:CZ	2.53	0.85
1:D:549:SER:O	4:W:46:GLY:C	2.18	0.85
1:G:91:MET:HE3	1:G:119:SER:HB2	1.57	0.85
1:G:792:ALA:HB3	3:I:42:THR:CG2	1.98	0.85
1:J:91:MET:HE3	1:J:119:SER:HB2	1.57	0.85
1:J:530:MET:HG2	4:W:354:GLN:CG	2.06	0.85
1:M:795:ARG:CZ	3:O:116:GLU:CB	2.45	0.85
1:P:732:ILE:HG23	1:P:747:LEU:HB2	1.57	0.85
1:P:795:ARG:CB	3:R:118:MET:HE1	2.06	0.85
1:D:646:PHE:CD2	1:D:652:LEU:HD11	2.09	0.85
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	0.85
1:G:754:ASP:CB	1:G:776:GLU:HA	2.05	0.85
1:M:641:LYS:CD	1:M:647:GLN:OE1	2.18	0.85
1:M:783:LEU:CG	1:M:786:ILE:HD11	2.05	0.85
4:7:287:ILE:CG2	4:9:205:GLU:HG2	2.05	0.85
2:E:111:SER:OG	2:E:148:VAL:C	2.15	0.85
3:F:139:TYR:HA	3:F:142:PHE:HB3	1.56	0.85
1:J:84:MLY:CH2	1:J:719:ASP:O	2.23	0.85
1:J:202:SER:HA	1:J:207:LYS:HE2	0.85	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:310:TYR:CZ	1:J:320:ILE:HD11	2.11	0.85
1:J:505:MLY:HD2	1:J:762:HIS:HE1	1.35	0.85
1:P:795:ARG:CB	3:R:35:ARG:NH1	2.37	0.85
3:R:139:TYR:HA	3:R:142:PHE:HB3	1.56	0.85
1:D:538:GLU:N	4:9:351:THR:N	2.25	0.85
1:G:553:MLY:HH12	4:X:45:VAL:HG11	1.58	0.85
1:G:646:PHE:CE2	1:G:652:LEU:CD1	2.58	0.85
1:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	0.85
1:J:791:GLN:NE2	3:L:115:GLY:HA3	1.92	0.85
1:P:508:ILE:CD1	1:P:766:PHE:CG	2.59	0.85
1:P:599:ASN:OD1	1:P:649:VAL:CA	2.25	0.85
1:P:755:HIS:HA	1:P:758:TYR:CE1	2.10	0.85
1:J:84:MLY:CH2	1:J:720:PHE:CA	2.25	0.85
1:M:202:SER:HA	1:M:207:LYS:HE2	0.86	0.85
1:M:737:PHE:CZ	3:O:93:VAL:CG2	2.60	0.85
1:M:795:ARG:CB	3:O:35:ARG:HH12	1.90	0.85
1:A:202:SER:HA	1:A:207:LYS:HE2	0.86	0.85
1:D:800:ARG:C	3:F:149:VAL:HG21	2.01	0.85
1:M:817:GLN:NE2	2:N:128:PHE:CE1	2.44	0.85
1:M:829:TRP:CH2	2:N:84:PHE:CD1	2.65	0.85
1:P:538:GLU:N	4:1:351:THR:N	2.24	0.85
2:Q:111:SER:OG	2:Q:148:VAL:C	2.15	0.85
4:1:287:ILE:CG1	4:3:203:THR:H	1.88	0.85
1:A:149:GLN:HG2	1:A:719:ASP:H	1.39	0.85
1:G:754:ASP:HB2	1:G:776:GLU:CA	2.06	0.85
1:M:530:MET:HG2	4:Z:354:GLN:CG	2.06	0.85
4:1:205:GLU:CD	4:Y:287:ILE:C	2.44	0.85
1:A:505:MLY:NZ	1:A:762:HIS:C	2.22	0.85
1:D:202:SER:HA	1:D:207:LYS:HE2	0.85	0.85
1:G:599:ASN:OD1	1:G:649:VAL:CA	2.25	0.85
1:J:215:GLN:H	1:J:340:ILE:HG12	1.05	0.85
1:J:538:GLU:N	4:W:351:THR:N	2.24	0.85
1:M:599:ASN:OD1	1:M:649:VAL:CA	2.25	0.85
1:P:829:TRP:CZ3	2:Q:84:PHE:CD1	2.65	0.85
4:1:201:VAL:HG23	4:Y:287:ILE:CG1	2.07	0.85
1:A:204:GLU:H	1:A:207:LYS:HE3	1.42	0.85
1:A:206:LYS:HD3	1:A:217:THR:CB	2.06	0.85
1:D:410:ASN:OD1	4:9:334:GLU:CA	2.24	0.85
1:D:725:ARG:CA	1:D:782:MLY:CH2	2.53	0.85
1:D:727:LEU:CB	1:D:782:MLY:HE2	2.07	0.85
1:G:529:PRO:CB	4:V:353:GLN:OE1	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:639:GLY:CA	4:V:344:SER:C	2.49	0.85
1:G:792:ALA:CA	3:I:42:THR:HA	2.05	0.85
1:J:84:MLY:CH1	1:J:720:PHE:HD1	1.72	0.85
1:J:410:ASN:ND2	4:W:336:LYS:HG2	1.92	0.85
1:M:804:ARG:C	1:M:808:GLU:N	2.34	0.85
4:8:287:ILE:CG2	4:V:205:GLU:HG2	2.05	0.85
1:A:639:GLY:CA	4:8:344:SER:C	2.48	0.84
1:A:640:LYS:CB	1:A:645:SER:OG	2.25	0.84
1:D:215:GLN:H	1:D:340:ILE:CG1	1.73	0.84
1:D:549:SER:O	4:W:46:GLY:HA3	1.77	0.84
1:D:640:LYS:CB	1:D:645:SER:OG	2.25	0.84
1:G:410:ASN:ND2	4:V:336:LYS:HG2	1.92	0.84
1:G:789:ALA:CB	3:I:81:GLN:NE2	2.39	0.84
1:J:410:ASN:CG	4:W:334:GLU:CA	2.47	0.84
1:J:649:VAL:HG12	1:J:649:VAL:C	1.99	0.84
1:J:831:TRP:HZ3	2:K:34:ILE:CD1	1.89	0.84
1:M:95:THR:O	1:M:770:GLY:CA	2.25	0.84
1:M:204:GLU:H	1:M:207:LYS:HE3	1.42	0.84
1:M:410:ASN:ND2	4:Z:336:LYS:HG2	1.92	0.84
1:P:530:MET:HG2	4:1:354:GLN:CG	2.06	0.84
1:P:725:ARG:NE	3:R:85:GLU:CG	2.40	0.84
1:P:792:ALA:HB2	3:R:42:THR:CA	2.07	0.84
4:1:243:PRO:C	4:Y:291:LYS:CD	2.49	0.84
1:A:641:LYS:HG3	1:A:647:GLN:NE2	1.58	0.84
1:D:530:MET:CG	4:9:354:GLN:CB	2.30	0.84
1:J:817:GLN:CB	2:K:127:ARG:HD2	2.06	0.84
4:1:112:PRO:CG	4:2:195:GLU:O	2.25	0.84
4:3:322:PRO:CB	4:5:244:ASP:CB	2.55	0.84
1:A:418:THR:HB	1:A:421:GLU:HG3	1.60	0.84
1:A:549:SER:O	4:V:46:GLY:HA3	1.77	0.84
1:D:599:ASN:OD1	1:D:649:VAL:CA	2.25	0.84
1:G:202:SER:HA	1:G:207:LYS:HE2	0.85	0.84
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	0.84
1:G:795:ARG:CB	3:I:35:ARG:NH1	2.33	0.84
1:G:830:PRO:HB3	2:H:67:MET:CE	2.07	0.84
1:J:736:GLN:HA	1:J:743:ALA:HB2	1.51	0.84
1:J:836:PHE:CE2	2:K:160:GLY:N	2.44	0.84
1:P:410:ASN:OD1	4:1:334:GLU:CA	2.24	0.84
1:P:709:LYS:C	1:P:710:GLY:HA2	2.03	0.84
4:2:322:PRO:HB2	4:4:244:ASP:HB3	1.57	0.84
1:A:410:ASN:CG	4:8:334:GLU:CA	2.48	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:NE	3:F:43:ASN:OD1	2.10	0.84
1:G:418:THR:HB	1:G:421:GLU:HG3	1.60	0.84
1:G:640:LYS:CB	1:G:645:SER:OG	2.25	0.84
1:G:791:GLN:CD	3:I:116:GLU:HG3	2.02	0.84
1:J:561:LYS:CE	4:Y:48:GLY:HA3	2.07	0.84
1:J:725:ARG:CD	1:J:733:PRO:HB3	2.08	0.84
1:M:543:PRO:HG3	4:Z:143:TYR:O	1.77	0.84
1:P:791:GLN:OE1	3:R:116:GLU:HG3	1.77	0.84
4:2:324:THR:OG1	4:4:244:ASP:HA	1.76	0.84
1:A:725:ARG:CZ	1:A:733:PRO:HB3	2.06	0.84
1:J:529:PRO:C	4:W:354:GLN:CB	2.49	0.84
1:M:646:PHE:CE2	1:M:652:LEU:CD1	2.58	0.84
1:M:732:ILE:CG2	1:M:747:LEU:HD13	1.34	0.84
2:N:121:LEU:CA	2:N:128:PHE:CB	2.47	0.84
1:P:202:SER:HA	1:P:207:LYS:HE2	0.85	0.84
1:A:599:ASN:OD1	1:A:649:VAL:CA	2.25	0.84
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	0.84
1:D:410:ASN:ND2	4:9:336:LYS:HG2	1.93	0.84
1:D:648:THR:CG2	1:D:651:ALA:HB2	2.08	0.84
1:D:831:TRP:HZ3	2:E:50:THR:HG21	1.41	0.84
1:M:410:ASN:OD1	4:Z:334:GLU:CA	2.24	0.84
1:P:543:PRO:HG3	4:1:143:TYR:O	1.77	0.84
1:P:838:ILE:CG1	2:Q:54:MET:HE1	2.06	0.84
1:D:725:ARG:CD	1:D:733:PRO:HB3	2.07	0.84
1:D:732:ILE:CG2	1:D:782:MLY:HH21	1.92	0.84
1:G:538:GLU:HG3	4:V:351:THR:C	2.02	0.84
1:M:817:GLN:CG	2:N:127:ARG:HB2	2.08	0.84
2:N:114:LYS:HA	2:N:146:GLY:C	2.02	0.84
4:W:291:LYS:HD2	4:Y:243:PRO:CB	2.07	0.84
1:A:410:ASN:OD1	4:8:334:GLU:CA	2.24	0.84
1:A:732:ILE:HG23	1:A:747:LEU:HB2	1.58	0.84
1:J:542:PHE:CA	4:W:143:TYR:CE1	2.61	0.84
1:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.84
1:M:529:PRO:CB	4:Z:353:GLN:OE1	2.25	0.84
1:P:410:ASN:ND2	4:1:336:LYS:HG2	1.92	0.84
1:P:648:THR:CG2	1:P:651:ALA:HB2	2.08	0.84
3:R:50:LEU:C	3:R:53:PRO:HD2	2.03	0.84
4:2:287:ILE:HG21	4:4:204:ALA:H	1.43	0.84
4:W:286:ASP:OD1	4:Y:203:THR:N	2.11	0.84
4:Z:237:GLU:HA	4:Z:251:GLY:HA2	1.60	0.84
1:A:538:GLU:N	4:8:351:THR:N	2.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:641:LYS:HG2	1:A:647:GLN:HG3	1.60	0.84
1:J:646:PHE:CE2	1:J:652:LEU:CD1	2.58	0.84
1:J:821:ARG:HH22	2:K:127:ARG:NE	1.74	0.84
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	0.84
1:M:797:PHE:CZ	3:O:146:ILE:HD11	2.06	0.84
1:P:818:TYR:HB3	2:Q:90:GLY:HA3	1.60	0.84
4:8:237:GLU:HA	4:8:251:GLY:HA2	1.60	0.84
1:D:538:GLU:HG3	4:9:351:THR:C	2.03	0.84
1:D:735:GLY:C	1:D:743:ALA:HB1	1.84	0.84
2:H:141:PRO:CB	2:H:142:PRO:CD	2.56	0.84
1:J:538:GLU:HG3	4:W:351:THR:C	2.03	0.84
1:M:732:ILE:HG21	1:M:747:LEU:HD13	0.90	0.84
1:P:279:LEU:HB2	1:P:282:GLU:HG3	1.60	0.84
1:P:529:PRO:CB	4:1:353:GLN:OE1	2.25	0.84
4:4:287:ILE:CD1	4:6:203:THR:HB	2.06	0.84
4:V:237:GLU:HA	4:V:251:GLY:HA2	1.60	0.84
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.84
1:D:529:PRO:CB	4:9:353:GLN:OE1	2.25	0.83
1:D:635:GLY:HA2	4:9:334:GLU:CG	2.03	0.83
1:D:795:ARG:HD2	3:F:35:ARG:HH12	1.42	0.83
1:G:543:PRO:HG3	4:V:143:TYR:O	1.78	0.83
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.83
1:J:204:GLU:H	1:J:207:LYS:HE3	1.42	0.83
1:J:732:ILE:CG2	1:J:747:LEU:HD13	1.34	0.83
1:J:797:PHE:CE1	3:L:146:ILE:HA	2.12	0.83
1:M:538:GLU:HG3	4:Z:351:THR:C	2.03	0.83
1:M:648:THR:CG2	1:M:651:ALA:HB2	2.08	0.83
1:P:725:ARG:CD	1:P:733:PRO:HB3	2.08	0.83
4:2:237:GLU:HA	4:2:251:GLY:HA2	1.60	0.83
4:X:286:ASP:OD1	4:Z:202:THR:OG1	1.95	0.83
1:A:529:PRO:CB	4:8:353:GLN:OE1	2.25	0.83
1:A:629:GLU:CG	1:A:643:GLY:O	2.26	0.83
1:D:649:VAL:HG12	1:D:649:VAL:C	1.99	0.83
1:G:538:GLU:N	4:V:351:THR:N	2.24	0.83
1:G:557:GLU:HB2	4:X:46:GLY:C	2.00	0.83
1:J:410:ASN:OD1	4:W:334:GLU:CA	2.24	0.83
1:J:648:THR:CG2	1:J:651:ALA:HB2	2.08	0.83
4:8:286:ASP:OD1	4:V:203:THR:CG2	2.26	0.83
1:A:410:ASN:ND2	4:8:336:LYS:HG2	1.93	0.83
1:A:542:PHE:CA	4:8:143:TYR:CE1	2.61	0.83
1:D:795:ARG:HB3	3:F:35:ARG:NH2	1.91	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:MLY:CH1	1:G:724:TYR:CE2	2.61	0.83
1:G:629:GLU:CG	1:G:643:GLY:O	2.26	0.83
1:G:725:ARG:CD	1:G:733:PRO:HB3	2.08	0.83
1:G:769:ALA:O	1:G:773:GLY:CA	2.26	0.83
1:M:279:LEU:HB2	1:M:282:GLU:HG3	1.60	0.83
1:P:795:ARG:NH2	3:R:116:GLU:HB3	1.89	0.83
1:P:819:ASN:CA	2:Q:90:GLY:O	2.25	0.83
4:1:287:ILE:HG21	4:3:203:THR:H	1.43	0.83
1:A:502:GLU:C	1:A:761:GLY:HA3	2.03	0.83
1:D:204:GLU:H	1:D:207:LYS:HE3	1.42	0.83
1:D:747:LEU:CD2	1:D:782:MLY:HH11	2.08	0.83
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	0.83
1:P:204:GLU:H	1:P:207:LYS:HE3	1.42	0.83
1:P:725:ARG:HH21	3:R:85:GLU:HG3	1.37	0.83
1:P:831:TRP:CZ2	2:Q:47:LEU:CD2	2.59	0.83
1:A:543:PRO:HG3	4:8:143:TYR:O	1.78	0.83
1:D:732:ILE:HG21	1:D:747:LEU:HD13	0.91	0.83
1:M:538:GLU:N	4:Z:351:THR:N	2.24	0.83
1:P:542:PHE:CA	4:1:143:TYR:CE1	2.61	0.83
4:7:286:ASP:OD1	4:9:203:THR:CG2	2.26	0.83
1:A:648:THR:CG2	1:A:651:ALA:HB2	2.08	0.83
1:G:218:LEU:HB3	1:G:221:GLN:HG3	1.60	0.83
1:G:648:THR:CG2	1:G:651:ALA:HB2	2.08	0.83
1:G:834:LEU:CD1	2:H:51:PHE:HE1	1.87	0.83
1:J:505:MLY:CG	1:J:762:HIS:CE1	2.62	0.83
1:J:756:THR:HG21	1:J:776:GLU:CA	2.06	0.83
1:M:542:PHE:CA	4:Z:143:TYR:CE1	2.61	0.83
1:P:803:TYR:O	1:P:806:MET:C	2.22	0.83
2:Q:141:PRO:CB	2:Q:142:PRO:CD	2.56	0.83
4:1:247:VAL:H	4:Y:324:THR:CG2	1.92	0.83
1:A:768:MLY:HB3	1:A:771:LEU:CD1	2.07	0.83
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	0.83
1:G:542:PHE:CA	4:V:143:TYR:CE1	2.61	0.83
1:G:732:ILE:HG23	1:G:747:LEU:HB2	1.57	0.83
1:G:755:HIS:CE1	1:G:779:ARG:HH12	1.97	0.83
1:M:418:THR:HB	1:M:421:GLU:HG3	1.60	0.83
1:M:545:ALA:HA	4:2:45:VAL:CG1	2.03	0.83
1:M:801:VAL:HG21	3:O:126:LEU:CD2	2.08	0.83
1:P:546:THR:OG1	4:3:47:MET:N	2.10	0.83
1:P:629:GLU:CG	1:P:643:GLY:O	2.26	0.83
1:D:725:ARG:C	1:D:782:MLY:HH22	2.03	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:813:ILE:HG23	2:E:128:PHE:HZ	1.02	0.83
2:E:141:PRO:CB	2:E:142:PRO:CD	2.56	0.83
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.83
1:J:418:THR:HB	1:J:421:GLU:HG3	1.60	0.83
2:K:141:PRO:CB	2:K:142:PRO:CD	2.56	0.83
1:M:552:ASN:HD22	4:2:47:MET:C	1.87	0.83
1:M:629:GLU:CG	1:M:643:GLY:O	2.26	0.83
1:M:640:LYS:CB	1:M:645:SER:OG	2.25	0.83
1:P:795:ARG:HG2	3:R:118:MET:HE2	1.59	0.83
4:5:237:GLU:HA	4:5:251:GLY:HA2	1.60	0.83
1:A:279:LEU:HB2	1:A:282:GLU:HG3	1.60	0.83
1:G:84:MLY:NZ	1:G:724:TYR:HE2	1.77	0.83
1:G:410:ASN:CG	4:V:334:GLU:CA	2.47	0.83
1:G:725:ARG:CZ	1:G:733:PRO:HB3	2.06	0.83
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.83
1:J:557:GLU:CA	4:Y:47:MET:CA	1.90	0.83
1:M:804:ARG:O	1:M:808:GLU:HB2	1.78	0.83
1:P:538:GLU:HG3	4:1:351:THR:C	2.03	0.83
4:4:237:GLU:HA	4:4:251:GLY:HA2	1.60	0.83
4:9:286:ASP:OD1	4:W:203:THR:CG2	2.26	0.83
1:D:542:PHE:CA	4:9:143:TYR:CE1	2.61	0.83
1:D:643:GLY:N	4:9:24:ASP:HA	1.94	0.83
1:D:732:ILE:HD13	1:D:782:MLY:CH1	2.05	0.83
1:G:819:ASN:ND2	2:H:92:ASP:CB	2.41	0.83
1:M:797:PHE:HE2	3:O:126:LEU:CD2	1.71	0.83
1:A:709:LYS:O	1:A:710:GLY:HA3	1.79	0.82
1:D:418:THR:HB	1:D:421:GLU:HG3	1.60	0.82
1:D:732:ILE:CG2	1:D:747:LEU:HD13	1.34	0.82
1:M:542:PHE:CA	4:Z:143:TYR:HE1	1.92	0.82
1:M:725:ARG:CD	1:M:733:PRO:HB3	2.08	0.82
1:P:826:VAL:HG21	2:Q:88:LEU:CD2	2.08	0.82
1:D:557:GLU:N	4:W:48:GLY:HA2	1.90	0.82
1:D:629:GLU:CG	1:D:643:GLY:O	2.26	0.82
1:J:732:ILE:HG23	1:J:747:LEU:CB	1.84	0.82
1:M:641:LYS:HG2	1:M:647:GLN:HG3	1.61	0.82
1:M:737:PHE:CZ	3:O:93:VAL:HG22	2.14	0.82
1:M:813:ILE:CG2	2:N:128:PHE:HZ	1.65	0.82
2:N:141:PRO:CB	2:N:142:PRO:CD	2.56	0.82
1:P:795:ARG:CZ	3:R:116:GLU:OE2	2.27	0.82
1:A:553:MLY:NZ	4:V:45:VAL:HA	1.84	0.82
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:730:SER:O	1:G:734:GLU:HG3	1.79	0.82
1:G:798:LEU:HG	3:I:122:GLU:HB3	1.61	0.82
1:J:529:PRO:CB	4:W:353:GLN:OE1	2.25	0.82
1:J:800:ARG:HD2	3:L:149:VAL:HG13	1.61	0.82
1:P:640:LYS:CB	1:P:645:SER:OG	2.25	0.82
4:3:237:GLU:HA	4:3:251:GLY:HA2	1.60	0.82
4:3:322:PRO:CB	4:5:244:ASP:OD2	2.27	0.82
1:A:549:SER:O	4:V:46:GLY:CA	2.27	0.82
1:A:725:ARG:CD	1:A:733:PRO:HB3	2.08	0.82
1:D:578:HIS:HB3	1:D:592:ILE:HD12	1.62	0.82
2:H:150:TYR:C	2:H:151:LYS:CG	2.49	0.82
1:M:547:ASP:C	4:2:46:GLY:O	2.22	0.82
1:M:643:GLY:N	4:Z:24:ASP:HA	1.93	0.82
4:8:290:ARG:NH1	4:V:202:THR:HG21	1.94	0.82
1:A:218:LEU:HD22	1:A:222:ILE:CG1	2.10	0.82
1:D:725:ARG:CZ	1:D:733:PRO:HB3	2.06	0.82
1:D:727:LEU:CG	1:D:782:MLY:CG	2.57	0.82
1:D:791:GLN:NE2	3:F:115:GLY:C	2.11	0.82
1:D:795:ARG:HB3	3:F:35:ARG:HH12	1.41	0.82
1:D:838:ILE:CD1	2:E:54:MET:SD	2.67	0.82
1:G:795:ARG:HB3	3:I:35:ARG:NH2	1.94	0.82
1:J:769:ALA:HB2	1:J:770:GLY:CA	2.10	0.82
1:J:791:GLN:CD	3:L:116:GLU:HG3	2.05	0.82
1:J:817:GLN:HG2	2:K:127:ARG:CB	2.09	0.82
1:P:529:PRO:C	4:1:354:GLN:CB	2.49	0.82
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.82
1:A:553:MLY:HG2	4:V:47:MET:H	1.44	0.82
1:D:410:ASN:CG	4:9:334:GLU:CA	2.48	0.82
1:D:549:SER:O	4:W:46:GLY:CA	2.27	0.82
1:D:641:LYS:HG2	1:D:647:GLN:HG3	1.60	0.82
1:G:757:GLN:CG	1:G:776:GLU:OE2	2.27	0.82
1:G:817:GLN:HE21	2:H:127:ARG:HB2	1.40	0.82
1:J:567:LYS:HZ1	4:Y:92:ASN:HD22	1.28	0.82
1:J:629:GLU:CG	1:J:643:GLY:O	2.26	0.82
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.82
1:J:735:GLY:C	1:J:743:ALA:HB2	1.82	0.82
1:M:730:SER:O	1:M:734:GLU:HG3	1.79	0.82
1:M:795:ARG:HH21	3:O:116:GLU:CG	1.70	0.82
1:P:418:THR:HB	1:P:421:GLU:HG3	1.60	0.82
4:4:322:PRO:HB3	4:6:244:ASP:OD2	1.79	0.82
4:7:237:GLU:HA	4:7:251:GLY:HA2	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:MLY:HE2	1:A:762:HIS:CG	1.99	0.82
1:A:599:ASN:CA	1:A:649:VAL:CB	2.54	0.82
1:A:730:SER:O	1:A:734:GLU:HG3	1.78	0.82
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.62	0.82
1:D:730:SER:O	1:D:734:GLU:HG3	1.79	0.82
2:E:163:ALA:O	2:K:21:GLU:N	2.12	0.82
1:G:218:LEU:HD22	1:G:222:ILE:CG1	2.10	0.82
1:J:84:MLY:HH23	1:J:720:PHE:HA	1.54	0.82
1:M:218:LEU:HA	1:M:221:GLN:HG2	1.62	0.82
1:P:218:LEU:HD22	1:P:222:ILE:CG1	2.10	0.82
1:P:546:THR:OG1	4:3:46:GLY:HA2	1.74	0.82
1:P:641:LYS:HG2	1:P:647:GLN:HG3	1.61	0.82
1:G:503:TYR:CE1	1:G:711:PHE:HE2	1.97	0.82
1:J:756:THR:HG22	1:J:776:GLU:OE1	1.79	0.82
1:J:817:GLN:HG2	2:K:127:ARG:HB2	1.62	0.82
1:P:732:ILE:HG21	1:P:747:LEU:HD13	0.91	0.82
4:2:287:ILE:HG12	4:4:202:THR:HA	1.49	0.82
4:6:237:GLU:HA	4:6:251:GLY:HA2	1.60	0.82
1:A:480:ILE:HG22	1:A:481:ASN:HD22	1.45	0.82
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	0.82
1:D:708:ARG:C	1:D:710:GLY:N	2.38	0.82
1:G:769:ALA:HB1	1:G:770:GLY:HA2	1.62	0.82
1:G:791:GLN:NE2	3:I:116:GLU:H	1.78	0.82
1:J:279:LEU:HB2	1:J:282:GLU:HG3	1.60	0.82
1:J:640:LYS:CB	1:J:645:SER:OG	2.25	0.82
1:M:641:LYS:HD2	4:Z:348:SER:CA	2.09	0.82
1:P:641:LYS:HD2	4:1:348:SER:CA	2.09	0.82
1:P:806:MET:C	1:P:807:VAL:CB	2.49	0.82
1:A:508:ILE:CD1	1:A:759:ALA:HB3	2.06	0.82
1:A:734:GLU:O	1:A:738:MET:CG	2.28	0.82
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	0.82
1:J:480:ILE:HG22	1:J:481:ASN:HD22	1.45	0.82
1:J:730:SER:O	1:J:734:GLU:HG3	1.78	0.82
1:M:530:MET:HE2	4:Z:354:GLN:HG3	1.62	0.82
1:M:578:HIS:HB3	1:M:592:ILE:HD12	1.62	0.82
3:O:50:LEU:C	3:O:53:PRO:HD2	2.03	0.82
1:P:795:ARG:CZ	3:R:116:GLU:CB	2.52	0.82
1:P:818:TYR:HE1	2:Q:127:ARG:NH2	1.78	0.82
4:1:244:ASP:N	4:Y:291:LYS:CG	2.43	0.82
4:V:325:MET:SD	4:X:244:ASP:HB3	2.19	0.82
1:A:542:PHE:CA	4:8:143:TYR:HE1	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:797:PHE:CE1	3:F:146:ILE:HG23	2.11	0.81
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.81
1:J:734:GLU:O	1:J:738:MET:CG	2.28	0.81
1:J:769:ALA:HB3	1:J:770:GLY:HA2	1.60	0.81
1:J:792:ALA:H	3:L:42:THR:HG22	1.41	0.81
1:P:218:LEU:HA	1:P:221:GLN:HG2	1.62	0.81
1:P:646:PHE:CE2	1:P:652:LEU:HD21	2.15	0.81
2:Q:114:LYS:HA	2:Q:146:GLY:C	2.03	0.81
1:D:127:ASN:HD22	1:D:128:PRO:HD2	1.45	0.81
1:D:543:PRO:HG3	4:9:143:TYR:O	1.78	0.81
1:D:795:ARG:NH2	3:F:116:GLU:HG2	1.95	0.81
2:E:144:VAL:HG12	2:E:153:ILE:CD1	2.10	0.81
1:J:821:ARG:NH2	2:K:127:ARG:CD	2.43	0.81
1:M:599:ASN:CA	1:M:649:VAL:CB	2.53	0.81
1:A:93:MET:HE2	1:A:715:VAL:CG1	2.11	0.81
1:A:502:GLU:HA	1:A:762:HIS:H	1.41	0.81
1:A:571:ALA:O	1:A:572:LYS:CG	2.28	0.81
1:A:578:HIS:HD2	1:A:591:ASN:HA	1.45	0.81
1:A:643:GLY:N	4:8:24:ASP:HA	1.93	0.81
1:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.81
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.81
1:D:721:LYS:HG2	1:D:736:GLN:CD	1.86	0.81
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	0.81
1:D:734:GLU:O	1:D:738:MET:CG	2.28	0.81
2:E:162:ASP:O	2:K:21:GLU:CB	2.28	0.81
1:G:542:PHE:CA	4:V:143:TYR:HE1	1.93	0.81
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.81
1:G:732:ILE:HG23	1:G:747:LEU:CB	1.85	0.81
1:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.81
1:J:797:PHE:HD1	3:L:146:ILE:CG2	1.83	0.81
1:M:795:ARG:HB2	3:O:35:ARG:HH12	1.45	0.81
1:M:797:PHE:HZ	3:O:146:ILE:CD1	1.47	0.81
1:P:544:LYS:HD3	4:3:45:VAL:HG21	1.63	0.81
1:P:571:ALA:O	1:P:572:LYS:CG	2.28	0.81
1:P:578:HIS:HB3	1:P:592:ILE:HD12	1.62	0.81
1:P:730:SER:O	1:P:734:GLU:HG3	1.78	0.81
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.81
4:W:237:GLU:HA	4:W:251:GLY:HA2	1.60	0.81
1:A:530:MET:CG	4:8:354:GLN:CB	2.30	0.81
1:G:127:ASN:HD22	1:G:128:PRO:HD2	1.45	0.81
1:G:215:GLN:N	1:G:340:ILE:CD1	2.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:127:ASN:HD22	1:M:128:PRO:HD2	1.45	0.81
4:2:287:ILE:HG21	4:4:202:THR:C	2.05	0.81
4:9:237:GLU:HA	4:9:251:GLY:HA2	1.60	0.81
1:A:218:LEU:HB3	1:A:221:GLN:HG3	1.61	0.81
1:D:534:SER:O	4:9:351:THR:HG23	1.13	0.81
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.81
1:D:713:SER:HB3	1:D:775:LEU:HD22	1.60	0.81
1:D:800:ARG:HH22	3:F:40:ASN:ND2	1.77	0.81
1:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.81
1:G:788:THR:C	3:I:42:THR:HG21	2.06	0.81
1:J:571:ALA:O	1:J:572:LYS:CG	2.28	0.81
1:J:783:LEU:O	1:J:787:ILE:HB	1.79	0.81
1:M:218:LEU:HD22	1:M:222:ILE:CG1	2.10	0.81
1:M:817:GLN:HG2	2:N:127:ARG:HB2	1.63	0.81
1:P:95:THR:HG23	1:P:770:GLY:HA2	1.61	0.81
1:P:817:GLN:HB3	2:Q:127:ARG:HD3	1.61	0.81
1:P:829:TRP:CH2	2:Q:84:PHE:CD1	2.69	0.81
1:P:834:LEU:HD13	2:Q:51:PHE:CE1	2.14	0.81
4:6:223:PHE:HE1	4:6:255:PHE:HB2	1.46	0.81
4:7:290:ARG:NH1	4:9:202:THR:HG21	1.94	0.81
1:A:218:LEU:CA	1:A:221:GLN:HG2	2.10	0.81
1:D:215:GLN:N	1:D:340:ILE:CD1	2.44	0.81
1:D:232:PHE:CZ	1:D:287:ILE:HD13	2.16	0.81
1:G:567:LYS:HZ3	4:X:92:ASN:ND2	1.75	0.81
1:J:826:VAL:CG2	2:K:88:LEU:CD2	2.54	0.81
1:M:215:GLN:N	1:M:340:ILE:CD1	2.44	0.81
1:M:218:LEU:CA	1:M:221:GLN:HG2	2.10	0.81
1:M:538:GLU:CA	4:Z:351:THR:H	1.93	0.81
1:M:734:GLU:O	1:M:738:MET:CG	2.28	0.81
1:P:538:GLU:CA	4:1:351:THR:H	1.93	0.81
1:A:538:GLU:CA	4:8:351:THR:H	1.93	0.81
1:G:218:LEU:HA	1:G:221:GLN:HG2	1.62	0.81
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.81
1:G:578:HIS:HD2	1:G:591:ASN:HA	1.45	0.81
1:G:799:MET:SD	3:I:32:ASP:CG	2.64	0.81
1:J:218:LEU:HD22	1:J:222:ILE:CG1	2.10	0.81
1:J:641:LYS:HD2	4:W:348:SER:CA	2.09	0.81
1:J:829:TRP:CZ3	2:K:84:PHE:CD1	2.69	0.81
1:J:830:PRO:CB	2:K:67:MET:HE2	2.10	0.81
2:K:144:VAL:CA	2:K:153:ILE:HD11	2.11	0.81
1:M:480:ILE:HG22	1:M:481:ASN:HD22	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:725:ARG:CZ	1:M:733:PRO:HB3	2.06	0.81
1:M:791:GLN:CD	3:O:116:GLU:H	1.84	0.81
1:P:544:LYS:HB3	4:3:45:VAL:HG22	1.62	0.81
1:P:734:GLU:O	1:P:738:MET:CG	2.28	0.81
4:1:166:TYR:CE2	4:3:64:ILE:CG2	2.59	0.81
4:4:322:PRO:CB	4:6:244:ASP:CG	2.54	0.81
4:9:290:ARG:NH1	4:W:202:THR:HG21	1.94	0.81
4:Y:237:GLU:HA	4:Y:251:GLY:HA2	1.60	0.81
1:D:218:LEU:HA	1:D:221:GLN:HG2	1.62	0.81
1:D:712:PRO:HB2	1:D:771:LEU:CB	2.10	0.81
1:J:127:ASN:HD22	1:J:128:PRO:HD2	1.45	0.81
1:J:732:ILE:HG22	1:J:747:LEU:HD12	0.81	0.81
1:M:709:LYS:C	1:M:710:GLY:CA	2.54	0.81
1:M:817:GLN:HG2	2:N:127:ARG:HB3	1.63	0.81
1:P:732:ILE:CG2	1:P:747:LEU:HD13	1.34	0.81
4:X:223:PHE:HE1	4:X:255:PHE:HB2	1.46	0.81
1:A:215:GLN:N	1:A:340:ILE:CD1	2.44	0.81
1:D:795:ARG:CB	3:F:35:ARG:HH12	1.92	0.81
1:G:769:ALA:CB	1:G:770:GLY:N	2.43	0.81
1:G:817:GLN:CB	2:H:127:ARG:CD	2.59	0.81
1:J:232:PHE:CZ	1:J:287:ILE:HD13	2.16	0.81
1:J:578:HIS:HB3	1:J:592:ILE:HD12	1.62	0.81
1:P:480:ILE:HG22	1:P:481:ASN:HD22	1.45	0.81
1:P:643:GLY:N	4:1:24:ASP:HA	1.93	0.81
4:1:201:VAL:H	4:Y:287:ILE:HG12	1.42	0.81
4:4:223:PHE:HE1	4:4:255:PHE:HB2	1.46	0.81
4:5:223:PHE:HE1	4:5:255:PHE:HB2	1.46	0.81
1:A:94:MET:O	1:A:713:SER:CB	2.29	0.81
1:A:127:ASN:HD22	1:A:128:PRO:HD2	1.45	0.81
1:A:578:HIS:HB3	1:A:592:ILE:HD12	1.62	0.81
1:A:641:LYS:HD2	4:8:348:SER:CA	2.10	0.81
1:J:784:ALA:O	1:J:788:THR:N	2.14	0.81
1:M:218:LEU:HB3	1:M:221:GLN:HG3	1.61	0.81
1:M:410:ASN:CG	4:Z:334:GLU:CA	2.47	0.81
1:P:721:LYS:HG2	1:P:736:GLN:CD	1.86	0.81
4:1:290:ARG:HH22	4:3:202:THR:HG22	1.42	0.81
4:X:291:LYS:HE3	4:Z:243:PRO:HB2	0.81	0.81
1:A:732:ILE:HG22	1:A:747:LEU:HD12	0.81	0.80
1:A:768:MLY:HG2	1:A:771:LEU:CD1	2.03	0.80
1:D:480:ILE:HG22	1:D:481:ASN:HD22	1.45	0.80
1:D:641:LYS:HD2	4:9:348:SER:CA	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:49:ILE:N	3:F:52:ASN:ND2	2.29	0.80
2:H:141:PRO:HB2	2:H:142:PRO:CD	2.11	0.80
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.80
1:J:800:ARG:HD3	3:L:149:VAL:C	2.06	0.80
1:J:819:ASN:HA	2:K:90:GLY:C	1.99	0.80
1:M:730:SER:CB	3:O:85:GLU:HB3	2.10	0.80
1:M:733:PRO:C	1:M:737:PHE:HD1	1.88	0.80
1:M:834:LEU:HD13	2:N:51:PHE:CE1	2.13	0.80
1:P:215:GLN:N	1:P:340:ILE:CD1	2.44	0.80
4:W:223:PHE:HE1	4:W:255:PHE:HB2	1.46	0.80
1:A:732:ILE:HG21	1:A:747:LEU:HD13	0.91	0.80
1:D:218:LEU:HD22	1:D:222:ILE:CG1	2.10	0.80
1:D:529:PRO:C	4:9:354:GLN:CB	2.49	0.80
1:D:538:GLU:CA	4:9:351:THR:H	1.93	0.80
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	0.80
1:M:723:ARG:NE	1:M:776:GLU:OE1	2.14	0.80
2:N:141:PRO:HB2	2:N:142:PRO:CD	2.12	0.80
1:J:218:LEU:CA	1:J:221:GLN:HG2	2.10	0.80
1:J:374:GLN:HG3	1:J:375:ALA:N	1.96	0.80
1:J:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.80
1:M:232:PHE:CZ	1:M:287:ILE:HD13	2.16	0.80
1:M:578:HIS:HD2	1:M:591:ASN:HA	1.45	0.80
1:M:769:ALA:C	1:M:770:GLY:N	2.39	0.80
2:N:111:SER:OG	2:N:148:VAL:C	2.15	0.80
1:P:502:GLU:CG	1:P:766:PHE:CZ	2.65	0.80
1:P:599:ASN:CA	1:P:649:VAL:CB	2.53	0.80
4:1:245:GLY:CA	4:Y:324:THR:O	2.29	0.80
4:3:223:PHE:HE1	4:3:255:PHE:HB2	1.46	0.80
4:3:290:ARG:HH21	4:5:202:THR:HG23	1.41	0.80
1:D:646:PHE:CE2	1:D:652:LEU:HD21	2.15	0.80
1:G:599:ASN:CA	1:G:649:VAL:CB	2.53	0.80
1:G:641:LYS:HG2	1:G:647:GLN:HG3	1.61	0.80
1:G:643:GLY:N	4:V:24:ASP:HA	1.94	0.80
2:H:141:PRO:CB	2:H:142:PRO:HD2	2.12	0.80
3:L:49:ILE:N	3:L:52:ASN:ND2	2.29	0.80
1:P:232:PHE:CZ	1:P:287:ILE:HD13	2.16	0.80
1:P:817:GLN:NE2	2:Q:127:ARG:CB	2.42	0.80
4:1:201:VAL:HG23	4:Y:287:ILE:CG2	2.11	0.80
4:2:203:THR:N	4:Z:287:ILE:CG2	2.45	0.80
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	0.80
1:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:ARG:O	3:F:149:VAL:CG2	2.27	0.80
1:G:732:ILE:HG21	1:G:747:LEU:HD13	0.91	0.80
1:G:732:ILE:HG22	1:G:747:LEU:HD12	0.81	0.80
1:J:538:GLU:CA	4:W:351:THR:H	1.93	0.80
1:J:646:PHE:CE2	1:J:652:LEU:HD21	2.15	0.80
1:P:410:ASN:CG	4:1:334:GLU:CA	2.47	0.80
4:1:223:PHE:HE1	4:1:255:PHE:HB2	1.46	0.80
1:A:93:MET:CE	1:A:716:LEU:N	2.45	0.80
1:D:550:PHE:CA	4:W:46:GLY:CA	2.59	0.80
1:D:712:PRO:HD2	1:D:771:LEU:HD13	1.62	0.80
1:D:800:ARG:HB3	3:F:149:VAL:CG1	2.11	0.80
1:G:641:LYS:HD2	4:V:348:SER:CA	2.10	0.80
1:J:505:MLY:CD	1:J:762:HIS:HE1	1.90	0.80
1:J:795:ARG:HB3	3:L:35:ARG:NH2	1.96	0.80
2:K:117:LEU:HB2	2:K:147:ASN:HD21	1.47	0.80
2:K:141:PRO:CB	2:K:142:PRO:HD2	2.12	0.80
1:P:578:HIS:HD2	1:P:591:ASN:HA	1.45	0.80
1:P:732:ILE:HG22	1:P:747:LEU:HD12	0.81	0.80
4:1:112:PRO:HB3	4:2:195:GLU:O	1.82	0.80
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	0.80
1:D:822:SER:HG	2:E:88:LEU:HD22	1.46	0.80
1:G:578:HIS:HB3	1:G:592:ILE:HD12	1.62	0.80
1:P:818:TYR:CZ	2:Q:127:ARG:CZ	2.57	0.80
4:2:324:THR:CG2	4:4:244:ASP:CA	2.59	0.80
1:A:218:LEU:HA	1:A:221:GLN:HG2	1.62	0.80
2:E:141:PRO:CB	2:E:142:PRO:HD2	2.12	0.80
1:J:578:HIS:HD2	1:J:591:ASN:HA	1.45	0.80
1:J:725:ARG:CZ	1:J:733:PRO:HB3	2.06	0.80
1:J:756:THR:CG2	1:J:776:GLU:C	2.55	0.80
2:K:141:PRO:HB2	2:K:142:PRO:CD	2.12	0.80
1:M:629:GLU:HA	1:M:643:GLY:C	2.05	0.80
1:P:127:ASN:HD22	1:P:128:PRO:HD2	1.45	0.80
1:P:374:GLN:HG3	1:P:375:ALA:N	1.96	0.80
1:P:629:GLU:HA	1:P:643:GLY:C	2.06	0.80
1:P:725:ARG:CZ	1:P:733:PRO:HB3	2.06	0.80
4:1:166:TYR:HE2	4:3:64:ILE:HG21	1.42	0.80
4:X:291:LYS:HE2	4:Z:243:PRO:O	1.82	0.80
1:A:93:MET:HE2	1:A:715:VAL:C	2.07	0.80
1:A:232:PHE:CZ	1:A:287:ILE:HD13	2.16	0.80
1:A:502:GLU:HG2	1:A:764:MLY:O	1.82	0.80
1:A:506:GLU:CG	1:A:760:PHE:O	2.23	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:409:GLY:N	1:J:636:LYS:CG	2.44	0.80
1:J:641:LYS:HG2	1:J:647:GLN:HG3	1.61	0.80
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.29	0.80
1:M:805:ALA:C	1:M:806:MET:CA	2.54	0.80
4:Z:223:PHE:HE1	4:Z:255:PHE:HB2	1.46	0.80
1:A:409:GLY:N	1:A:636:LYS:CG	2.44	0.80
1:A:505:MLY:CG	1:A:762:HIS:CD2	2.64	0.80
1:D:409:GLY:N	1:D:636:LYS:CG	2.45	0.80
1:D:571:ALA:O	1:D:572:LYS:CG	2.28	0.80
1:D:578:HIS:HD2	1:D:591:ASN:HA	1.45	0.80
2:N:144:VAL:CA	2:N:153:ILE:HD11	2.11	0.80
1:P:291:ILE:HA	1:P:331:LEU:HD11	1.64	0.80
1:P:821:ARG:NH2	2:Q:127:ARG:CG	2.44	0.80
1:A:837:MLY:HH21	2:H:20:ASP:HA	1.62	0.79
1:G:409:GLY:N	1:G:636:LYS:CG	2.44	0.79
1:P:506:GLU:OE2	1:P:763:THR:HB	1.82	0.79
4:2:223:PHE:HE1	4:2:255:PHE:HB2	1.46	0.79
4:8:223:PHE:HE1	4:8:255:PHE:HB2	1.46	0.79
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	0.79
1:D:732:ILE:HG22	1:D:747:LEU:HD12	0.81	0.79
2:E:144:VAL:CA	2:E:153:ILE:HD11	2.11	0.79
1:G:769:ALA:O	1:G:773:GLY:HA3	1.82	0.79
1:G:796:GLY:N	3:I:35:ARG:NH2	2.28	0.79
1:G:829:TRP:CH2	2:H:87:LYS:HE2	2.17	0.79
2:H:144:VAL:HG12	2:H:153:ILE:CD1	2.09	0.79
1:J:218:LEU:HA	1:J:221:GLN:HG2	1.62	0.79
1:J:643:GLY:N	4:W:24:ASP:HA	1.94	0.79
1:M:34:ALA:HB3	1:M:777:GLU:OE2	1.82	0.79
1:P:818:TYR:CD1	2:Q:127:ARG:NH1	2.50	0.79
3:R:49:ILE:N	3:R:52:ASN:ND2	2.30	0.79
1:A:732:ILE:CG2	1:A:747:LEU:HD13	1.34	0.79
2:H:144:VAL:CA	2:H:153:ILE:HD11	2.11	0.79
1:M:291:ILE:HA	1:M:331:LEU:HD11	1.64	0.79
1:M:830:PRO:HB3	2:N:67:MET:HE2	0.82	0.79
3:O:49:ILE:N	3:O:52:ASN:ND2	2.30	0.79
1:P:218:LEU:CA	1:P:221:GLN:HG2	2.10	0.79
1:P:409:GLY:N	1:P:636:LYS:CG	2.44	0.79
1:A:501:GLU:HA	1:A:762:HIS:CE1	2.17	0.79
1:A:502:GLU:O	1:A:761:GLY:HA2	1.82	0.79
1:A:502:GLU:CD	1:A:764:MLY:O	2.25	0.79
1:A:768:MLY:CB	1:A:771:LEU:HD13	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:LEU:CA	1:D:221:GLN:HG2	2.10	0.79
1:D:542:PHE:CA	4:9:143:TYR:HE1	1.92	0.79
1:G:232:PHE:CZ	1:G:287:ILE:HD13	2.16	0.79
1:G:641:LYS:HD2	1:G:647:GLN:OE1	1.81	0.79
1:G:732:ILE:CG2	1:G:747:LEU:HD13	1.34	0.79
1:M:795:ARG:N	3:O:118:MET:HE3	1.97	0.79
2:Q:141:PRO:HB2	2:Q:142:PRO:CD	2.12	0.79
2:Q:144:VAL:CA	2:Q:153:ILE:HD11	2.11	0.79
4:3:287:ILE:HD13	4:5:203:THR:CB	1.97	0.79
1:A:501:GLU:CG	1:A:762:HIS:CE1	2.62	0.79
1:A:768:MLY:HB3	1:A:771:LEU:HB2	0.82	0.79
1:D:800:ARG:HG2	3:F:149:VAL:HG22	1.63	0.79
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	0.79
1:M:724:TYR:HE1	1:M:775:LEU:CB	1.69	0.79
1:M:796:GLY:HA2	3:O:35:ARG:NE	1.96	0.79
1:P:733:PRO:C	1:P:737:PHE:HD1	1.88	0.79
1:P:797:PHE:CZ	3:R:126:LEU:HD22	2.15	0.79
4:1:167:GLU:CD	4:3:43:VAL:O	2.25	0.79
1:D:641:LYS:HD2	4:9:348:SER:HB2	1.54	0.79
1:G:84:MLY:HH21	1:G:719:ASP:O	1.80	0.79
1:J:830:PRO:HB3	2:K:67:MET:HE2	1.64	0.79
1:M:409:GLY:N	1:M:636:LYS:CG	2.44	0.79
1:M:641:LYS:HD2	1:M:647:GLN:OE1	1.81	0.79
2:N:121:LEU:CG	2:N:128:PHE:CA	2.49	0.79
2:N:141:PRO:CB	2:N:142:PRO:HD2	2.12	0.79
1:P:407:GLY:HA2	1:P:412:ALA:HA	1.65	0.79
1:P:506:GLU:HB3	1:P:761:GLY:HA3	1.64	0.79
2:Q:117:LEU:HB2	2:Q:147:ASN:HD21	1.47	0.79
4:1:287:ILE:CG2	4:3:203:THR:H	1.96	0.79
4:W:324:THR:HG23	4:Y:247:VAL:H	1.45	0.79
1:A:529:PRO:C	4:8:354:GLN:CB	2.49	0.79
1:D:174:SER:CB	1:D:667:THR:HG21	2.13	0.79
1:D:641:LYS:HD2	1:D:647:GLN:OE1	1.81	0.79
1:D:642:LYS:HG2	4:9:22:ALA:HA	1.65	0.79
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.79
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.17	0.79
1:M:374:GLN:HG3	1:M:375:ALA:N	1.96	0.79
1:P:542:PHE:CA	4:1:143:TYR:HE1	1.92	0.79
1:P:786:ILE:C	1:P:789:ALA:H	1.90	0.79
1:P:830:PRO:CG	2:Q:67:MET:HG2	2.13	0.79
1:D:537:GLU:O	4:9:350:SER:N	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:407:GLY:HA2	1:G:412:ALA:HA	1.65	0.79
1:J:537:GLU:O	4:W:350:SER:N	2.16	0.79
1:M:732:ILE:HG22	1:M:747:LEU:HD12	0.81	0.79
1:P:709:LYS:CA	1:P:710:GLY:N	2.46	0.79
4:2:203:THR:H	4:Z:287:ILE:HB	1.45	0.79
4:2:203:THR:N	4:Z:287:ILE:HG21	1.98	0.79
1:A:537:GLU:O	4:8:350:SER:N	2.16	0.79
1:A:641:LYS:CE	1:A:647:GLN:HB2	2.13	0.79
1:D:550:PHE:HA	4:W:46:GLY:HA2	1.64	0.79
1:D:800:ARG:HB3	3:F:149:VAL:CG2	2.13	0.79
1:G:374:GLN:HG3	1:G:375:ALA:N	1.96	0.79
1:G:736:GLN:HA	1:G:743:ALA:HB2	1.51	0.79
1:M:571:ALA:O	1:M:572:LYS:CG	2.28	0.79
1:M:735:GLY:C	1:M:743:ALA:HB1	1.84	0.79
1:P:818:TYR:HH	2:Q:127:ARG:HH22	1.31	0.79
1:G:641:LYS:CE	1:G:647:GLN:HB2	2.13	0.79
1:G:734:GLU:O	1:G:738:MET:CG	2.28	0.79
1:M:724:TYR:HE1	1:M:775:LEU:C	1.91	0.79
1:A:374:GLN:HG3	1:A:375:ALA:N	1.96	0.78
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.78
1:D:836:PHE:HZ	2:E:160:GLY:H	1.30	0.78
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.78
3:I:49:ILE:N	3:I:52:ASN:ND2	2.30	0.78
1:J:174:SER:CB	1:J:667:THR:HG21	2.13	0.78
1:J:756:THR:CG2	1:J:776:GLU:CD	2.55	0.78
1:M:537:GLU:O	4:Z:350:SER:N	2.16	0.78
1:M:830:PRO:CB	2:N:67:MET:CE	2.33	0.78
1:P:174:SER:CB	1:P:667:THR:HG21	2.13	0.78
2:Q:141:PRO:CB	2:Q:142:PRO:HD2	2.12	0.78
4:7:223:PHE:HE1	4:7:255:PHE:HB2	1.46	0.78
4:V:223:PHE:HE1	4:V:255:PHE:HB2	1.46	0.78
1:D:818:TYR:HB2	2:E:90:GLY:C	2.08	0.78
1:M:639:GLY:CA	4:Z:345:ILE:N	2.46	0.78
1:M:646:PHE:CE2	1:M:652:LEU:HD21	2.15	0.78
1:M:786:ILE:HG22	1:M:787:ILE:CB	2.12	0.78
1:P:537:GLU:O	4:1:350:SER:N	2.16	0.78
1:P:839:MLY:HH13	2:Q:159:HIS:CD2	2.19	0.78
1:A:550:PHE:HA	4:V:46:GLY:HA2	1.65	0.78
1:A:550:PHE:CA	4:V:46:GLY:CA	2.59	0.78
1:D:407:GLY:HA2	1:D:412:ALA:HA	1.65	0.78
1:G:571:ALA:O	1:G:572:LYS:CG	2.29	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:797:PHE:HE2	3:I:126:LEU:HD22	1.00	0.78
1:J:799:MET:SD	3:L:32:ASP:OD2	2.41	0.78
1:P:721:LYS:CB	1:P:736:GLN:CD	2.56	0.78
1:P:817:GLN:HE21	2:Q:127:ARG:HB2	1.46	0.78
2:Q:144:VAL:HG12	2:Q:153:ILE:CD1	2.10	0.78
4:Y:223:PHE:HE1	4:Y:255:PHE:HB2	1.46	0.78
3:F:3:SER:O	3:F:4:LYS:HB2	1.84	0.78
1:G:537:GLU:O	4:V:350:SER:N	2.16	0.78
1:J:732:ILE:HG21	1:J:747:LEU:HD13	0.90	0.78
1:M:174:SER:CB	1:M:667:THR:HG21	2.13	0.78
1:M:721:LYS:CB	1:M:736:GLN:CD	2.56	0.78
1:P:530:MET:HE2	4:1:354:GLN:HG3	1.61	0.78
4:2:287:ILE:CB	4:4:203:THR:HG22	2.14	0.78
4:2:288:ASP:N	4:4:203:THR:CG2	2.45	0.78
1:D:51:THR:O	1:D:62:VAL:HG13	1.84	0.78
1:D:534:SER:C	4:9:351:THR:CA	2.47	0.78
2:E:141:PRO:HB2	2:E:142:PRO:CD	2.12	0.78
1:J:84:MLY:CH1	1:J:720:PHE:CE1	2.59	0.78
1:J:291:ILE:HA	1:J:331:LEU:HD11	1.64	0.78
1:P:51:THR:O	1:P:62:VAL:HG13	1.84	0.78
1:P:642:LYS:HG2	4:1:22:ALA:HA	1.65	0.78
1:D:727:LEU:CG	1:D:782:MLY:HG3	2.14	0.78
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.61	0.78
1:G:639:GLY:CA	4:V:345:ILE:N	2.47	0.78
1:G:791:GLN:NE2	3:I:116:GLU:N	2.32	0.78
1:J:800:ARG:NH2	3:L:40:ASN:HD21	1.80	0.78
1:P:641:LYS:CE	1:P:647:GLN:HB2	2.13	0.78
4:1:243:PRO:C	4:Y:291:LYS:HD2	2.07	0.78
1:A:291:ILE:HA	1:A:331:LEU:HD11	1.64	0.78
1:D:219:GLU:O	1:D:223:ILE:HG13	1.84	0.78
1:J:646:PHE:HE2	1:J:652:LEU:CD2	1.97	0.78
1:J:791:GLN:HE21	3:L:115:GLY:HA3	1.48	0.78
1:J:801:VAL:CG2	3:L:126:LEU:CD2	2.61	0.78
1:J:818:TYR:HE1	2:K:127:ARG:NH2	1.74	0.78
1:P:496:PHE:CD2	1:P:514:ASP:HA	2.19	0.78
4:7:287:ILE:HB	4:9:204:ALA:N	1.98	0.78
1:A:166:MET:HE1	1:A:254:PHE:CD2	2.19	0.78
1:A:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.78
1:G:166:MET:HE1	1:G:254:PHE:CD2	2.19	0.78
1:G:291:ILE:HA	1:G:331:LEU:HD11	1.64	0.78
1:J:826:VAL:CG2	2:K:88:LEU:HD21	2.06	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:407:GLY:HA2	1:M:412:ALA:HA	1.65	0.78
1:M:481:ASN:HD22	1:M:481:ASN:N	1.82	0.78
1:M:818:TYR:HE1	2:N:127:ARG:NH2	1.80	0.78
1:P:166:MET:HE1	1:P:254:PHE:CD2	2.19	0.78
4:X:291:LYS:CE	4:Z:243:PRO:CA	2.61	0.78
1:A:550:PHE:N	4:V:46:GLY:HA3	1.97	0.78
1:D:166:MET:HE1	1:D:254:PHE:CD2	2.19	0.78
1:G:481:ASN:HD22	1:G:481:ASN:N	1.82	0.78
1:G:801:VAL:HG21	3:I:126:LEU:CD2	2.14	0.78
1:G:838:ILE:HD11	2:H:54:MET:HE2	1.63	0.78
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.78
1:M:641:LYS:CE	1:M:647:GLN:HB2	2.13	0.78
1:M:646:PHE:HE2	1:M:652:LEU:CD2	1.97	0.78
4:9:287:ILE:HB	4:W:204:ALA:N	1.97	0.78
1:A:407:GLY:HA2	1:A:412:ALA:HA	1.65	0.78
1:A:641:LYS:HD2	1:A:647:GLN:OE1	1.81	0.78
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.78
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	0.78
1:D:797:PHE:CE1	3:F:146:ILE:CB	2.67	0.78
1:G:797:PHE:CE2	3:I:146:ILE:HD12	2.17	0.78
1:J:51:THR:O	1:J:62:VAL:HG13	1.84	0.78
1:J:407:GLY:HA2	1:J:412:ALA:HA	1.65	0.78
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.78
1:J:641:LYS:CE	1:J:647:GLN:CG	2.61	0.78
1:M:290:GLN:C	1:M:331:LEU:HD12	2.09	0.78
2:N:144:VAL:HG12	2:N:153:ILE:CD1	2.10	0.78
1:A:174:SER:CB	1:A:667:THR:HG21	2.13	0.77
1:A:639:GLY:CA	4:8:345:ILE:N	2.47	0.77
1:A:641:LYS:CE	1:A:647:GLN:CG	2.60	0.77
1:D:496:PHE:CD2	1:D:514:ASP:HA	2.19	0.77
1:G:51:THR:O	1:G:62:VAL:HG13	1.84	0.77
1:G:646:PHE:HE2	1:G:652:LEU:CD2	1.97	0.77
1:J:84:MLY:HD2	1:J:724:TYR:HH	1.47	0.77
1:J:93:MET:HE1	1:J:716:LEU:CD1	2.14	0.77
1:M:724:TYR:HE1	1:M:775:LEU:HB3	0.97	0.77
1:P:792:ALA:CB	3:R:42:THR:HG23	2.13	0.77
1:P:821:ARG:HH22	2:Q:127:ARG:CG	1.95	0.77
4:1:112:PRO:CB	4:2:195:GLU:O	2.32	0.77
4:7:223:PHE:HD2	4:7:312:ARG:HH21	1.32	0.77
1:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.77
1:D:131:TRP:C	1:D:132:LEU:HD12	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:SER:CB	1:G:667:THR:HG21	2.13	0.77
1:J:166:MET:HE1	1:J:254:PHE:CD2	2.19	0.77
1:J:496:PHE:CD2	1:J:514:ASP:HA	2.19	0.77
1:J:639:GLY:CA	4:W:345:ILE:N	2.47	0.77
1:M:767:PHE:CD1	1:M:771:LEU:HD23	2.17	0.77
1:M:818:TYR:CD1	2:N:127:ARG:NH1	2.51	0.77
1:P:217:THR:C	1:P:221:GLN:HE21	1.92	0.77
4:2:287:ILE:HG13	4:4:202:THR:HA	1.64	0.77
4:X:223:PHE:HD2	4:X:312:ARG:HH21	1.33	0.77
1:D:639:GLY:CA	4:9:345:ILE:N	2.47	0.77
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	0.77
3:F:49:ILE:N	3:F:52:ASN:HD22	1.82	0.77
1:G:219:GLU:O	1:G:223:ILE:HG13	1.84	0.77
1:G:290:GLN:C	1:G:331:LEU:HD12	2.09	0.77
1:G:754:ASP:HA	1:G:779:ARG:HD2	0.84	0.77
1:J:641:LYS:CE	1:J:647:GLN:HB2	2.13	0.77
1:M:529:PRO:C	4:Z:354:GLN:CB	2.49	0.77
4:1:203:THR:N	4:Y:286:ASP:OD1	2.17	0.77
4:1:244:ASP:OD2	4:Y:325:MET:CE	2.32	0.77
4:V:223:PHE:HD2	4:V:312:ARG:HH21	1.33	0.77
4:Z:223:PHE:HD2	4:Z:312:ARG:HH21	1.33	0.77
1:A:481:ASN:HD22	1:A:481:ASN:N	1.82	0.77
1:A:757:GLN:CA	1:A:771:LEU:HD11	2.12	0.77
1:D:290:GLN:C	1:D:331:LEU:HD12	2.09	0.77
1:G:796:GLY:CA	3:I:35:ARG:CD	2.40	0.77
1:G:838:ILE:CG1	2:H:54:MET:CE	2.63	0.77
1:J:505:MLY:CG	1:J:762:HIS:HE1	1.97	0.77
1:M:496:PHE:CD2	1:M:514:ASP:HA	2.19	0.77
1:M:642:LYS:HG2	4:Z:22:ALA:HA	1.65	0.77
1:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.77
1:A:131:TRP:C	1:A:132:LEU:HD12	2.09	0.77
1:A:219:GLU:O	1:A:223:ILE:HG13	1.84	0.77
1:A:496:PHE:CD2	1:A:514:ASP:HA	2.19	0.77
2:E:121:LEU:CG	2:E:128:PHE:HA	2.14	0.77
1:G:84:MLY:CG	1:G:723:ARG:HD2	2.14	0.77
1:G:496:PHE:CD2	1:G:514:ASP:HA	2.20	0.77
1:J:218:LEU:HD22	1:J:222:ILE:HG12	1.67	0.77
3:L:49:ILE:N	3:L:52:ASN:HD22	1.82	0.77
1:M:166:MET:HE1	1:M:254:PHE:CD2	2.19	0.77
1:M:635:GLY:HA3	4:Z:341:ILE:CD1	2.14	0.77
4:2:203:THR:HG22	4:Z:288:ASP:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:223:PHE:HD2	4:2:312:ARG:HH21	1.33	0.77
4:8:223:PHE:HD2	4:8:312:ARG:HH21	1.33	0.77
4:9:223:PHE:HD2	4:9:312:ARG:HH21	1.33	0.77
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.77
1:G:94:MET:O	1:G:713:SER:CB	2.32	0.77
1:G:116:TYR:O	1:G:153:PRO:HB2	1.85	0.77
1:G:834:LEU:CD1	2:H:51:PHE:CD1	2.68	0.77
1:G:838:ILE:CD1	2:H:54:MET:HE1	2.09	0.77
1:J:116:TYR:O	1:J:153:PRO:HB2	1.85	0.77
1:J:131:TRP:C	1:J:132:LEU:HD12	2.10	0.77
1:J:217:THR:C	1:J:221:GLN:HE21	1.93	0.77
1:J:219:GLU:O	1:J:223:ILE:HG13	1.84	0.77
1:J:642:LYS:HG2	4:W:22:ALA:HA	1.65	0.77
1:J:829:TRP:HH2	2:K:84:PHE:CD1	1.99	0.77
3:R:49:ILE:N	3:R:52:ASN:HD22	1.83	0.77
4:6:223:PHE:HD2	4:6:312:ARG:HH21	1.33	0.77
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.77
1:A:768:MLY:CB	1:A:771:LEU:CB	2.28	0.77
1:D:721:LYS:CB	1:D:736:GLN:CD	2.56	0.77
1:D:800:ARG:NH2	3:F:40:ASN:CG	2.41	0.77
1:G:646:PHE:CE2	1:G:652:LEU:HD21	2.14	0.77
1:G:818:TYR:HB3	2:H:90:GLY:HA3	1.65	0.77
2:H:121:LEU:CG	2:H:128:PHE:CA	2.49	0.77
3:I:3:SER:O	3:I:4:LYS:HB2	1.85	0.77
1:J:725:ARG:HG3	1:J:733:PRO:HA	1.67	0.77
1:M:801:VAL:HG21	3:O:126:LEU:HD23	1.66	0.77
4:2:324:THR:CB	4:4:244:ASP:HA	2.14	0.77
1:G:503:TYR:CZ	1:G:711:PHE:CE2	2.73	0.77
2:K:144:VAL:HG12	2:K:153:ILE:CD1	2.10	0.77
1:M:131:TRP:C	1:M:132:LEU:HD12	2.10	0.77
4:2:202:THR:C	4:Z:287:ILE:HG21	2.09	0.77
4:5:223:PHE:HD2	4:5:312:ARG:HH21	1.33	0.77
1:A:635:GLY:HA3	4:8:341:ILE:CD1	2.14	0.77
1:A:646:PHE:HE2	1:A:652:LEU:CD2	1.97	0.77
1:A:707:CYS:HA	1:A:714:ARG:HH12	0.96	0.77
1:D:800:ARG:CG	3:F:149:VAL:HG22	2.15	0.77
2:E:121:LEU:CG	2:E:128:PHE:CA	2.48	0.77
1:G:641:LYS:CE	1:G:647:GLN:CG	2.61	0.77
1:P:792:ALA:CB	3:R:42:THR:CA	2.62	0.77
4:3:322:PRO:HB2	4:5:244:ASP:HB2	1.65	0.77
4:4:223:PHE:HD2	4:4:312:ARG:HH21	1.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:223:PHE:HD2	4:W:312:ARG:HH21	1.33	0.77
1:A:534:SER:O	4:8:351:THR:N	2.18	0.77
1:A:642:LYS:HG2	4:8:22:ALA:HA	1.66	0.77
1:G:642:LYS:HG2	4:V:22:ALA:HA	1.65	0.77
1:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.77
1:G:732:ILE:N	1:G:733:PRO:HD2	2.00	0.77
1:J:94:MET:CE	1:J:101:ALA:HB1	2.15	0.77
1:J:721:LYS:CA	1:J:736:GLN:OE1	2.33	0.77
1:M:94:MET:CE	1:M:101:ALA:HB1	2.15	0.77
1:M:219:GLU:O	1:M:223:ILE:HG13	1.84	0.77
3:O:49:ILE:N	3:O:52:ASN:HD22	1.83	0.77
1:P:94:MET:CE	1:P:101:ALA:HB1	2.15	0.77
1:P:219:GLU:O	1:P:223:ILE:HG13	1.84	0.77
1:P:639:GLY:CA	4:1:345:ILE:N	2.47	0.77
4:4:288:ASP:N	4:6:203:THR:CG2	2.46	0.77
4:4:288:ASP:H	4:6:203:THR:CG2	1.98	0.77
1:A:116:TYR:O	1:A:153:PRO:HB2	1.85	0.76
1:A:217:THR:C	1:A:221:GLN:HE21	1.93	0.76
1:A:290:GLN:C	1:A:331:LEU:HD12	2.09	0.76
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.62	0.76
1:D:218:LEU:HB3	1:D:221:GLN:HG3	1.60	0.76
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	0.76
1:M:736:GLN:HA	1:M:743:ALA:HB1	1.26	0.76
1:M:813:ILE:CG2	2:N:128:PHE:HE1	1.89	0.76
1:P:116:TYR:O	1:P:153:PRO:HB2	1.85	0.76
1:P:537:GLU:HG3	4:1:350:SER:O	1.78	0.76
1:P:646:PHE:HE2	1:P:652:LEU:CD2	1.97	0.76
1:P:795:ARG:NE	3:R:116:GLU:OE2	2.18	0.76
1:A:732:ILE:HG23	1:A:747:LEU:CB	1.85	0.76
1:A:732:ILE:N	1:A:733:PRO:HD2	2.00	0.76
1:D:94:MET:CE	1:D:101:ALA:HB1	2.15	0.76
1:D:116:TYR:O	1:D:153:PRO:HB2	1.85	0.76
1:D:217:THR:C	1:D:221:GLN:HE21	1.93	0.76
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.76
1:J:290:GLN:C	1:J:331:LEU:HD12	2.09	0.76
1:M:623:PHE:CG	1:M:623:PHE:CA	2.68	0.76
1:M:709:LYS:H	1:M:710:GLY:N	1.82	0.76
1:M:818:TYR:HB3	2:N:90:GLY:CA	2.15	0.76
1:P:732:ILE:N	1:P:733:PRO:HD2	2.01	0.76
4:1:287:ILE:HB	4:3:203:THR:HG21	1.64	0.76
4:4:322:PRO:CB	4:6:244:ASP:HB2	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:641:LYS:CE	1:D:647:GLN:CG	2.61	0.76
1:D:642:LYS:CG	4:9:23:GLY:H	1.77	0.76
1:D:725:ARG:HG3	1:D:733:PRO:HA	1.68	0.76
1:D:732:ILE:N	1:D:733:PRO:HD2	2.00	0.76
1:D:736:GLN:HA	1:D:743:ALA:HB1	1.27	0.76
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.76
1:G:218:LEU:HD22	1:G:222:ILE:HG12	1.67	0.76
1:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.68	0.76
1:G:707:CYS:SG	1:G:714:ARG:CZ	2.73	0.76
1:G:757:GLN:OE1	1:G:772:LEU:HA	1.83	0.76
1:J:732:ILE:N	1:J:733:PRO:HD2	2.01	0.76
1:M:51:THR:O	1:M:62:VAL:HG13	1.84	0.76
1:M:116:TYR:O	1:M:153:PRO:HB2	1.85	0.76
1:M:552:ASN:HD22	4:2:48:GLY:N	1.79	0.76
1:M:838:ILE:HG13	2:N:54:MET:CE	2.13	0.76
3:O:3:SER:O	3:O:4:LYS:HB2	1.84	0.76
1:P:721:LYS:CA	1:P:736:GLN:OE1	2.33	0.76
1:P:795:ARG:HB3	3:R:35:ARG:NH2	2.00	0.76
4:2:324:THR:HG23	4:4:244:ASP:CA	2.14	0.76
1:A:664:LEU:O	1:A:667:THR:HB	1.86	0.76
1:D:641:LYS:CE	1:D:647:GLN:HB2	2.13	0.76
1:P:290:GLN:C	1:P:331:LEU:HD12	2.09	0.76
1:P:839:MLY:HH11	2:Q:159:HIS:HD2	1.48	0.76
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:D:599:ASN:CA	1:D:649:VAL:CB	2.54	0.76
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	0.76
1:J:599:ASN:CA	1:J:649:VAL:CB	2.53	0.76
1:M:721:LYS:CA	1:M:736:GLN:OE1	2.33	0.76
1:M:829:TRP:HZ3	2:N:84:PHE:CE2	2.03	0.76
1:P:623:PHE:CG	1:P:623:PHE:CA	2.68	0.76
4:Y:223:PHE:HD2	4:Y:312:ARG:HH21	1.33	0.76
1:D:838:ILE:HD13	2:E:54:MET:HE1	1.67	0.76
1:J:537:GLU:HG3	4:W:350:SER:O	1.78	0.76
1:P:131:TRP:C	1:P:132:LEU:HD12	2.10	0.76
1:P:664:LEU:O	1:P:667:THR:HB	1.86	0.76
4:2:202:THR:HB	4:Z:287:ILE:HG23	0.77	0.76
4:2:202:THR:HA	4:Z:287:ILE:HG12	1.67	0.76
4:2:288:ASP:OD1	4:4:203:THR:HG23	1.84	0.76
1:A:721:LYS:CA	1:A:736:GLN:OE1	2.33	0.76
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	0.76
1:J:534:SER:O	4:W:351:THR:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:733:PRO:C	1:J:737:PHE:CD1	2.62	0.76
1:J:769:ALA:HB3	1:J:770:GLY:CA	2.14	0.76
1:M:217:THR:C	1:M:221:GLN:HE21	1.92	0.76
1:M:721:LYS:CA	1:M:736:GLN:NE2	2.43	0.76
1:P:733:PRO:C	1:P:737:PHE:CD1	2.62	0.76
1:P:791:GLN:NE2	3:R:115:GLY:CA	2.13	0.76
2:Q:121:LEU:CG	2:Q:128:PHE:CA	2.49	0.76
4:3:223:PHE:HD2	4:3:312:ARG:HH21	1.33	0.76
4:3:288:ASP:H	4:5:203:THR:CG2	1.98	0.76
4:7:290:ARG:NH1	4:9:202:THR:CG2	2.49	0.76
4:8:290:ARG:NH1	4:V:202:THR:CG2	2.49	0.76
1:D:534:SER:O	4:9:351:THR:N	2.19	0.76
1:D:553:MLY:NZ	4:W:45:VAL:HA	1.84	0.76
1:G:94:MET:CE	1:G:101:ALA:HB1	2.15	0.76
1:J:754:ASP:HB3	1:J:780:ASP:OD2	1.84	0.76
1:M:530:MET:CG	4:Z:354:GLN:CB	2.30	0.76
1:P:636:LYS:O	1:P:637:LYS:HB2	1.86	0.76
1:P:795:ARG:CA	3:R:118:MET:HE1	2.16	0.76
1:A:149:GLN:HB2	1:A:718:ALA:HB3	0.97	0.76
1:A:550:PHE:HA	4:V:46:GLY:HA3	1.66	0.76
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.76
1:G:503:TYR:HE1	1:G:711:PHE:CE2	2.04	0.76
1:G:795:ARG:CB	3:I:118:MET:HE1	2.15	0.76
1:J:218:LEU:HB2	1:J:221:GLN:CG	2.09	0.76
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	0.76
1:M:723:ARG:HE	1:M:776:GLU:CD	1.93	0.76
1:P:218:LEU:HD22	1:P:222:ILE:HG12	1.66	0.76
3:R:3:SER:O	3:R:4:LYS:HB2	1.84	0.76
1:A:93:MET:CE	1:A:715:VAL:CG1	2.64	0.76
1:A:623:PHE:CG	1:A:623:PHE:CA	2.68	0.76
1:D:218:LEU:HB2	1:D:221:GLN:CG	2.10	0.76
1:D:623:PHE:CG	1:D:623:PHE:CA	2.68	0.76
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.76
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	0.76
1:J:538:GLU:OE2	4:W:355:MET:HE2	1.86	0.76
3:L:3:SER:O	3:L:4:LYS:HB2	1.84	0.76
1:P:538:GLU:OE2	4:1:355:MET:HE2	1.86	0.76
1:P:817:GLN:HG2	2:Q:127:ARG:HB2	1.41	0.76
4:1:223:PHE:HD2	4:1:312:ARG:HH21	1.33	0.76
4:1:244:ASP:H	4:Y:291:LYS:HD2	1.51	0.76
1:D:799:MET:SD	3:F:32:ASP:CA	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:831:TRP:CZ2	2:E:47:LEU:HA	2.22	0.75
1:G:623:PHE:CG	1:G:623:PHE:CA	2.68	0.75
1:G:752:ASP:OD1	1:G:783:LEU:HB2	1.85	0.75
1:G:753:VAL:N	1:G:780:ASP:OD1	2.19	0.75
1:M:725:ARG:HG3	1:M:733:PRO:HA	1.67	0.75
1:M:732:ILE:N	1:M:733:PRO:HD2	2.01	0.75
1:P:721:LYS:CA	1:P:736:GLN:NE2	2.43	0.75
1:P:804:ARG:N	1:P:807:VAL:HG11	2.01	0.75
1:D:649:VAL:CG1	1:D:649:VAL:CB	2.64	0.75
1:G:148:ARG:NH2	1:G:764:MLY:HH21	1.99	0.75
1:G:752:ASP:OD1	1:G:783:LEU:N	2.18	0.75
3:I:49:ILE:N	3:I:52:ASN:HD22	1.83	0.75
1:J:481:ASN:HD22	1:J:481:ASN:N	1.82	0.75
1:J:664:LEU:O	1:J:667:THR:HB	1.86	0.75
1:J:800:ARG:HH22	3:L:40:ASN:CG	1.89	0.75
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.69	0.75
1:M:641:LYS:CE	1:M:647:GLN:CG	2.61	0.75
1:P:549:SER:HA	4:3:43:VAL:CG1	2.15	0.75
1:P:649:VAL:CG1	1:P:649:VAL:CB	2.64	0.75
1:P:839:MLY:CH1	2:Q:159:HIS:HD2	1.98	0.75
4:W:291:LYS:HB3	4:Y:244:ASP:HB3	1.66	0.75
1:G:94:MET:O	1:G:713:SER:CA	2.35	0.75
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.75
1:G:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.75
1:G:801:VAL:HG21	3:I:126:LEU:HD23	1.69	0.75
1:J:218:LEU:HB3	1:J:221:GLN:HG3	1.60	0.75
1:M:553:MLY:CG	4:2:43:VAL:HG11	2.03	0.75
1:M:733:PRO:C	1:M:737:PHE:CD1	2.62	0.75
4:2:324:THR:OG1	4:4:244:ASP:N	2.17	0.75
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.74	0.75
1:G:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.75
1:G:757:GLN:CG	1:G:776:GLU:CD	2.58	0.75
1:J:836:PHE:CZ	2:K:159:HIS:HA	2.20	0.75
1:M:664:LEU:O	1:M:667:THR:HB	1.86	0.75
1:A:218:LEU:HD22	1:A:222:ILE:HG12	1.67	0.75
1:A:502:GLU:C	1:A:761:GLY:CA	2.59	0.75
1:D:481:ASN:HD22	1:D:481:ASN:N	1.82	0.75
1:D:827:MLY:HH21	2:E:139:ALA:CB	2.15	0.75
1:G:148:ARG:NH2	1:G:764:MLY:HH11	2.00	0.75
4:9:288:ASP:H	4:W:203:THR:HG22	1.52	0.75
1:D:538:GLU:OE2	4:9:355:MET:HE2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:727:LEU:HG	1:D:782:MLY:HE2	1.68	0.75
1:D:791:GLN:OE1	3:F:116:GLU:N	2.19	0.75
1:D:823:PHE:CZ	2:E:156:VAL:CG1	2.69	0.75
1:J:623:PHE:CG	1:J:623:PHE:CA	2.68	0.75
2:K:121:LEU:CG	2:K:128:PHE:HA	2.14	0.75
1:M:538:GLU:O	4:Z:349:LEU:HG	1.86	0.75
1:M:736:GLN:HA	1:M:743:ALA:HB2	1.51	0.75
1:P:797:PHE:CE1	3:R:146:ILE:HA	2.21	0.75
4:4:322:PRO:HB3	4:6:244:ASP:CB	2.10	0.75
4:X:287:ILE:CG1	4:Z:201:VAL:CG2	2.64	0.75
1:A:149:GLN:CG	1:A:719:ASP:H	1.99	0.75
1:D:721:LYS:CA	1:D:736:GLN:OE1	2.33	0.75
1:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	0.75
1:M:534:SER:O	4:Z:351:THR:N	2.19	0.75
1:M:541:MET:O	4:Z:143:TYR:CZ	2.40	0.75
1:P:534:SER:O	4:1:351:THR:N	2.19	0.75
1:P:541:MET:O	4:1:143:TYR:CZ	2.40	0.75
1:P:797:PHE:CE1	3:R:146:ILE:HD13	2.18	0.75
4:W:324:THR:CG2	4:Y:247:VAL:HG22	2.17	0.75
1:A:498:LEU:CD2	1:A:764:MLY:HH22	2.17	0.75
1:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.75
2:E:117:LEU:HB2	2:E:147:ASN:HD21	1.47	0.75
1:G:538:GLU:O	4:V:349:LEU:HG	1.87	0.75
1:J:95:THR:CA	1:J:713:SER:HB3	2.16	0.75
1:J:797:PHE:CE1	3:L:146:ILE:CG2	2.00	0.75
1:P:635:GLY:HA3	4:1:341:ILE:CD1	2.14	0.75
4:4:287:ILE:HB	4:6:203:THR:HG22	1.69	0.75
4:9:290:ARG:NH1	4:W:202:THR:CG2	2.49	0.75
4:X:287:ILE:HG23	4:Z:201:VAL:HG23	1.68	0.75
1:A:538:GLU:O	4:8:349:LEU:HG	1.86	0.75
1:A:725:ARG:HG3	1:A:733:PRO:HA	1.67	0.75
1:D:538:GLU:HA	4:9:349:LEU:HD12	0.75	0.75
1:G:817:GLN:CB	2:H:127:ARG:HD3	2.16	0.75
1:J:834:LEU:CD1	2:K:51:PHE:HE1	2.00	0.75
1:M:218:LEU:HD22	1:M:222:ILE:HG12	1.67	0.75
1:M:649:VAL:CG1	1:M:649:VAL:CB	2.64	0.75
4:3:253:GLU:HA	4:3:256:ARG:HG3	1.69	0.75
1:A:350:ALA:O	1:A:354:LEU:HB2	1.87	0.74
1:D:636:LYS:O	1:D:637:LYS:HB2	1.86	0.74
1:G:350:ALA:O	1:G:354:LEU:HB2	1.87	0.74
1:G:534:SER:O	4:V:351:THR:N	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:796:GLY:HA2	3:I:35:ARG:NE	2.02	0.74
1:J:757:GLN:CA	1:J:776:GLU:HG3	2.15	0.74
1:J:817:GLN:CD	2:K:127:ARG:CD	2.58	0.74
1:M:310:TYR:CE2	1:M:320:ILE:HD11	2.22	0.74
1:M:729:ALA:CB	3:O:86:ASP:OD1	2.34	0.74
1:P:218:LEU:HB2	1:P:221:GLN:CG	2.10	0.74
1:P:538:GLU:HA	4:1:349:LEU:HD12	0.75	0.74
2:Q:117:LEU:CB	2:Q:147:ASN:ND2	2.35	0.74
1:A:505:MLY:N	1:A:762:HIS:NE2	2.35	0.74
1:D:215:GLN:NE2	1:D:336:SER:O	2.21	0.74
1:D:664:LEU:O	1:D:667:THR:HB	1.86	0.74
1:G:636:LYS:O	1:G:637:LYS:HB2	1.86	0.74
1:J:538:GLU:HA	4:W:349:LEU:HD12	0.74	0.74
1:J:797:PHE:CD1	3:L:146:ILE:HG22	2.15	0.74
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	0.74
1:P:350:ALA:O	1:P:354:LEU:HB2	1.87	0.74
1:P:506:GLU:O	1:P:761:GLY:CA	2.35	0.74
1:P:641:LYS:CE	1:P:647:GLN:CG	2.61	0.74
1:P:725:ARG:HG3	1:P:733:PRO:HA	1.67	0.74
4:8:253:GLU:HA	4:8:256:ARG:HG3	1.69	0.74
4:V:253:GLU:HA	4:V:256:ARG:HG3	1.70	0.74
1:A:436:MLY:HE3	1:A:626:TYR:CE1	2.22	0.74
1:D:795:ARG:NH2	3:F:116:GLU:CB	2.31	0.74
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.94	0.74
1:D:823:PHE:CE1	2:E:160:GLY:HA3	2.18	0.74
1:G:797:PHE:CE1	3:I:146:ILE:HD13	2.21	0.74
1:J:530:MET:HE2	4:W:354:GLN:HG3	1.62	0.74
1:J:817:GLN:CB	2:K:127:ARG:HH11	1.93	0.74
1:M:272:MLY:HH13	1:M:435:GLU:OE1	1.88	0.74
1:M:636:LYS:O	1:M:637:LYS:HB2	1.86	0.74
1:P:508:ILE:HD11	1:P:766:PHE:HD1	1.42	0.74
1:P:839:MLY:CH1	2:Q:159:HIS:CD2	2.70	0.74
1:A:541:MET:O	4:8:143:TYR:CZ	2.40	0.74
1:D:350:ALA:O	1:D:354:LEU:HB2	1.87	0.74
1:D:793:ARG:NH2	3:F:147:MET:CE	2.32	0.74
1:G:215:GLN:NE2	1:G:336:SER:O	2.20	0.74
1:G:834:LEU:HD12	2:H:51:PHE:CD1	2.22	0.74
1:J:310:TYR:CE2	1:J:320:ILE:HD11	2.22	0.74
1:P:804:ARG:N	1:P:807:VAL:CG1	2.37	0.74
4:1:253:GLU:HA	4:1:256:ARG:HG3	1.69	0.74
4:5:253:GLU:HA	4:5:256:ARG:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:836:PHE:HZ	2:E:160:GLY:N	1.82	0.74
1:G:310:TYR:CE2	1:G:320:ILE:HD11	2.22	0.74
1:G:541:MET:O	4:V:143:TYR:CZ	2.40	0.74
1:G:739:ASP:CB	1:G:742:LYS:HB3	2.12	0.74
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.74
1:J:834:LEU:CD1	2:K:51:PHE:CE1	2.69	0.74
1:M:215:GLN:NE2	1:M:336:SER:O	2.21	0.74
1:P:218:LEU:HB3	1:P:221:GLN:HG3	1.61	0.74
1:P:831:TRP:HH2	2:Q:42:ILE:HG21	1.50	0.74
4:W:253:GLU:HA	4:W:256:ARG:HG3	1.69	0.74
4:Y:253:GLU:HA	4:Y:256:ARG:HG3	1.69	0.74
1:A:310:TYR:CE2	1:A:320:ILE:HD11	2.23	0.74
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.65	0.74
1:D:295:MLY:HG3	1:D:332:MET:HE2	1.69	0.74
1:J:795:ARG:HH21	3:L:116:GLU:HG2	1.53	0.74
1:P:732:ILE:N	1:P:733:PRO:CD	2.51	0.74
1:P:735:GLY:C	1:P:743:ALA:HB1	1.84	0.74
1:A:640:LYS:O	4:8:23:GLY:O	2.06	0.74
1:D:739:ASP:CB	1:D:742:LYS:HB3	2.12	0.74
1:D:834:LEU:HD21	2:E:54:MET:HE3	0.76	0.74
1:G:795:ARG:CB	3:I:35:ARG:HH22	1.98	0.74
1:G:836:PHE:CE1	2:H:159:HIS:HA	2.22	0.74
1:J:215:GLN:NE2	1:J:336:SER:O	2.21	0.74
1:M:553:MLY:HD3	4:2:43:VAL:HG21	1.69	0.74
4:2:202:THR:CB	4:Z:287:ILE:HG21	2.13	0.74
4:X:253:GLU:HA	4:X:256:ARG:HG3	1.69	0.74
4:Z:253:GLU:HA	4:Z:256:ARG:HG3	1.70	0.74
1:A:272:MLY:HH13	1:A:435:GLU:OE1	1.88	0.74
1:A:636:LYS:O	1:A:637:LYS:HB2	1.86	0.74
1:A:768:MLY:C	1:A:771:LEU:CB	2.66	0.74
1:D:541:MET:O	4:9:143:TYR:CZ	2.40	0.74
1:G:783:LEU:O	1:G:787:ILE:CB	2.35	0.74
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.46	0.74
1:J:721:LYS:CA	1:J:736:GLN:NE2	2.43	0.74
1:M:804:ARG:C	1:M:808:GLU:HG3	2.11	0.74
1:P:310:TYR:CE2	1:P:320:ILE:HD11	2.22	0.74
4:8:288:ASP:H	4:V:203:THR:HG22	1.52	0.74
1:D:537:GLU:HG3	4:9:350:SER:O	1.79	0.74
1:D:709:LYS:C	1:D:710:GLY:HA2	2.13	0.74
1:G:272:MLY:HH13	1:G:435:GLU:OE1	1.88	0.74
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:538:GLU:HA	4:V:349:LEU:HD12	0.74	0.74
1:G:728:ASN:ND2	3:I:113:THR:O	2.20	0.74
1:J:97:LEU:CD2	1:J:712:PRO:CB	2.65	0.74
1:J:295:MLY:HG3	1:J:332:MET:HE2	1.69	0.74
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	0.74
1:J:541:MET:O	4:W:143:TYR:CZ	2.40	0.74
1:M:709:LYS:CA	1:M:710:GLY:N	2.50	0.74
1:P:410:ASN:OD1	4:1:335:ARG:N	2.21	0.74
1:P:791:GLN:CD	3:R:116:GLU:H	1.96	0.74
1:P:796:GLY:HA2	3:R:35:ARG:NE	2.03	0.74
4:2:204:ALA:N	4:Z:287:ILE:HG21	2.03	0.74
1:A:149:GLN:HE21	1:A:718:ALA:HB3	1.29	0.74
1:A:215:GLN:NE2	1:A:336:SER:O	2.20	0.74
1:D:712:PRO:HB2	1:D:771:LEU:HD22	1.70	0.74
1:D:724:TYR:HD1	1:D:782:MLY:HD3	1.49	0.74
1:D:735:GLY:CA	1:D:743:ALA:HA	2.18	0.74
2:K:150:TYR:C	2:K:151:LYS:CG	2.49	0.74
1:M:538:GLU:HA	4:Z:349:LEU:HD12	0.74	0.74
2:N:130:PRO:O	2:N:132:GLU:N	2.21	0.74
1:P:486:MLY:HH13	1:P:527:GLU:OE1	1.88	0.74
2:Q:130:PRO:O	2:Q:132:GLU:N	2.21	0.74
4:4:288:ASP:CB	4:6:203:THR:CG2	2.66	0.74
2:E:130:PRO:O	2:E:132:GLU:N	2.21	0.73
1:G:838:ILE:CG1	2:H:54:MET:HE1	2.18	0.73
2:H:117:LEU:HB2	2:H:147:ASN:HD21	1.47	0.73
1:J:636:LYS:O	1:J:637:LYS:HB2	1.86	0.73
1:J:791:GLN:OE1	3:L:116:GLU:HG3	1.88	0.73
1:M:553:MLY:HH22	4:2:43:VAL:HG22	1.70	0.73
4:3:322:PRO:HB2	4:5:244:ASP:HB3	1.70	0.73
4:X:286:ASP:OD1	4:Z:202:THR:C	2.31	0.73
4:X:287:ILE:HG12	4:Z:201:VAL:HG23	1.70	0.73
1:A:97:LEU:HD23	1:A:712:PRO:HB3	1.69	0.73
1:A:295:MLY:HG3	1:A:332:MET:HE2	1.69	0.73
1:A:505:MLY:CA	1:A:762:HIS:CD2	2.71	0.73
1:D:310:TYR:CE2	1:D:320:ILE:HD11	2.23	0.73
1:D:486:MLY:HH13	1:D:527:GLU:OE1	1.88	0.73
1:D:732:ILE:N	1:D:733:PRO:CD	2.51	0.73
1:G:795:ARG:HA	3:I:118:MET:HE1	1.69	0.73
1:J:436:MLY:HE3	1:J:626:TYR:CE1	2.23	0.73
1:J:732:ILE:N	1:J:733:PRO:CD	2.51	0.73
1:M:350:ALA:O	1:M:354:LEU:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:769:ALA:HA	1:M:770:GLY:N	2.03	0.73
2:N:121:LEU:CG	2:N:128:PHE:HA	2.15	0.73
1:P:215:GLN:NE2	1:P:336:SER:O	2.21	0.73
1:P:272:MLY:HH13	1:P:435:GLU:OE1	1.88	0.73
1:P:797:PHE:HE1	3:R:146:ILE:HA	1.52	0.73
1:P:817:GLN:HB3	2:Q:127:ARG:CD	2.18	0.73
1:A:538:GLU:HA	4:8:349:LEU:HD12	0.74	0.73
1:G:95:THR:HA	1:G:713:SER:HB3	1.69	0.73
1:G:754:ASP:OD2	1:G:776:GLU:HA	1.86	0.73
1:J:821:ARG:NH2	2:K:127:ARG:NE	2.36	0.73
1:J:821:ARG:HH22	2:K:127:ARG:HE	1.32	0.73
1:P:436:MLY:HE3	1:P:626:TYR:CE1	2.23	0.73
1:P:534:SER:C	4:1:351:THR:CA	2.47	0.73
1:P:817:GLN:CD	2:Q:127:ARG:CG	2.60	0.73
4:9:253:GLU:HA	4:9:256:ARG:HG3	1.69	0.73
1:A:536:LEU:HD13	1:A:550:PHE:CZ	2.24	0.73
1:A:538:GLU:OE2	4:8:355:MET:HE2	1.87	0.73
1:D:409:GLY:HA3	4:9:333:PRO:N	2.03	0.73
1:D:530:MET:CE	4:9:355:MET:SD	2.77	0.73
1:D:834:LEU:CD2	2:E:54:MET:CE	2.26	0.73
1:G:84:MLY:HD3	1:G:723:ARG:CD	2.17	0.73
1:G:237:THR:HG22	1:G:239:ARG:H	1.54	0.73
1:G:536:LEU:HD13	1:G:550:PHE:CZ	2.24	0.73
2:H:121:LEU:CG	2:H:128:PHE:HA	2.14	0.73
1:J:409:GLY:HA3	4:W:333:PRO:N	2.03	0.73
1:J:538:GLU:O	4:W:349:LEU:HG	1.86	0.73
1:M:486:MLY:HH13	1:M:527:GLU:OE1	1.88	0.73
1:M:721:LYS:HG2	1:M:736:GLN:CD	1.86	0.73
1:M:732:ILE:N	1:M:733:PRO:CD	2.51	0.73
4:1:287:ILE:CG2	4:3:202:THR:HB	2.19	0.73
4:2:253:GLU:HA	4:2:256:ARG:HG3	1.70	0.73
4:4:253:GLU:HA	4:4:256:ARG:HG3	1.69	0.73
1:D:410:ASN:OD1	4:9:335:ARG:N	2.22	0.73
1:D:727:LEU:N	1:D:782:MLY:HE2	2.03	0.73
1:G:409:GLY:HA3	4:V:333:PRO:N	2.03	0.73
1:G:441:MET:O	1:G:445:ILE:HG13	1.88	0.73
1:J:190:MLY:HE3	1:J:230:GLU:OE2	1.89	0.73
1:M:487:LEU:O	1:M:490:PHE:HB3	1.89	0.73
4:1:243:PRO:C	4:Y:291:LYS:CE	2.62	0.73
4:7:253:GLU:HA	4:7:256:ARG:HG3	1.69	0.73
1:A:409:GLY:HA3	4:8:333:PRO:N	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:GLU:CG	1:A:764:MLY:O	2.36	0.73
1:D:635:GLY:HA3	4:9:341:ILE:CD1	2.14	0.73
1:D:823:PHE:CZ	2:E:156:VAL:HG12	2.22	0.73
1:G:789:ALA:HB2	3:I:81:GLN:CD	2.12	0.73
1:J:640:LYS:O	4:W:23:GLY:O	2.06	0.73
1:J:735:GLY:CA	1:J:743:ALA:HA	2.18	0.73
1:J:756:THR:HG23	1:J:779:ARG:CD	2.17	0.73
2:K:130:PRO:O	2:K:132:GLU:N	2.21	0.73
1:P:481:ASN:HD22	1:P:481:ASN:N	1.82	0.73
1:P:506:GLU:OE2	1:P:764:MLY:N	2.21	0.73
1:P:534:SER:CA	4:1:351:THR:HA	2.19	0.73
1:P:538:GLU:O	4:1:349:LEU:HG	1.86	0.73
1:A:530:MET:CE	4:8:355:MET:SD	2.76	0.73
1:A:542:PHE:CD2	4:8:143:TYR:CE1	2.76	0.73
1:A:732:ILE:N	1:A:733:PRO:CD	2.51	0.73
1:G:817:GLN:CB	2:H:127:ARG:HD2	2.16	0.73
3:L:24:LYS:CA	3:L:63:ILE:O	2.37	0.73
1:M:441:MET:O	1:M:445:ILE:HG13	1.88	0.73
1:M:530:MET:CE	4:Z:355:MET:SD	2.77	0.73
1:M:831:TRP:HH2	2:N:42:ILE:HG21	1.52	0.73
1:M:831:TRP:HE1	2:N:67:MET:HB3	1.54	0.73
1:P:214:MET:HA	1:P:340:ILE:HD11	1.70	0.73
1:P:536:LEU:HD13	1:P:550:PHE:CZ	2.24	0.73
1:P:795:ARG:C	3:R:35:ARG:NH2	2.46	0.73
2:Q:121:LEU:CG	2:Q:128:PHE:HA	2.14	0.73
4:4:324:THR:CG2	4:6:244:ASP:C	2.55	0.73
1:A:534:SER:CA	4:8:351:THR:HA	2.19	0.73
1:A:640:LYS:O	1:A:645:SER:OG	2.06	0.73
1:D:95:THR:O	1:D:770:GLY:N	2.22	0.73
1:D:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.73
1:D:713:SER:HB2	1:D:775:LEU:HD22	1.66	0.73
1:G:487:LEU:O	1:G:490:PHE:HB3	1.89	0.73
1:G:797:PHE:HE2	3:I:126:LEU:CG	2.02	0.73
1:J:97:LEU:CD2	1:J:712:PRO:HB3	2.17	0.73
1:M:542:PHE:CD2	4:Z:143:TYR:CE1	2.77	0.73
1:M:817:GLN:CD	2:N:127:ARG:CD	2.60	0.73
1:M:829:TRP:HZ3	2:N:84:PHE:CD1	2.05	0.73
1:P:190:MLY:HE3	1:P:230:GLU:OE2	1.89	0.73
1:P:487:LEU:O	1:P:490:PHE:HB3	1.89	0.73
4:1:290:ARG:NH2	4:3:202:THR:HG21	1.87	0.73
4:2:287:ILE:HG13	4:4:202:THR:CA	2.16	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:288:ASP:H	4:4:203:THR:HG22	1.54	0.73
4:6:253:GLU:HA	4:6:256:ARG:HG3	1.69	0.73
4:7:288:ASP:H	4:9:203:THR:HG22	1.52	0.73
1:D:272:MLY:HH13	1:D:435:GLU:OE1	1.87	0.73
1:D:538:GLU:O	4:9:349:LEU:HG	1.86	0.73
1:D:732:ILE:CD1	1:D:782:MLY:HH13	2.18	0.73
1:D:802:GLU:O	1:D:806:MET:HG3	1.89	0.73
3:F:24:LYS:CA	3:F:63:ILE:O	2.37	0.73
1:G:797:PHE:CE2	3:I:126:LEU:HD21	2.22	0.73
1:J:272:MLY:HH13	1:J:435:GLU:OE1	1.88	0.73
1:J:530:MET:CE	4:W:355:MET:SD	2.77	0.73
1:J:536:LEU:HD13	1:J:550:PHE:CZ	2.24	0.73
1:M:409:GLY:HA3	4:Z:333:PRO:N	2.03	0.73
1:M:410:ASN:OD1	4:Z:335:ARG:N	2.21	0.73
1:A:486:MLY:HH13	1:A:527:GLU:OE1	1.88	0.73
1:A:735:GLY:CA	1:A:743:ALA:HA	2.18	0.73
1:J:21:GLU:O	1:J:25:ILE:HG13	1.89	0.73
1:J:542:PHE:CD2	4:W:143:TYR:CE1	2.77	0.73
1:J:756:THR:HG22	1:J:776:GLU:CG	2.18	0.73
1:J:829:TRP:CZ2	2:K:87:LYS:CE	2.70	0.73
1:M:536:LEU:HD13	1:M:550:PHE:CZ	2.24	0.73
1:M:640:LYS:O	4:Z:23:GLY:O	2.06	0.73
1:M:737:PHE:CZ	3:O:93:VAL:HG21	2.24	0.73
1:P:295:MLY:HG3	1:P:332:MET:HE2	1.69	0.73
1:P:640:LYS:O	4:1:23:GLY:O	2.06	0.73
1:P:735:GLY:CA	1:P:743:ALA:HA	2.18	0.73
4:2:203:THR:CG2	4:Z:288:ASP:N	2.52	0.73
4:3:324:THR:HG21	4:5:243:PRO:C	2.11	0.73
4:W:324:THR:HG23	4:Y:247:VAL:HG22	1.71	0.73
4:X:286:ASP:CG	4:Z:202:THR:CB	2.26	0.73
1:A:214:MET:HA	1:A:340:ILE:HD11	1.71	0.72
1:D:436:MLY:HE3	1:D:626:TYR:CE1	2.23	0.72
1:D:487:LEU:O	1:D:490:PHE:HB3	1.89	0.72
1:D:640:LYS:O	4:9:23:GLY:O	2.06	0.72
1:G:190:MLY:HE3	1:G:230:GLU:OE2	1.89	0.72
1:G:214:MET:HA	1:G:340:ILE:HD11	1.70	0.72
1:G:552:ASN:C	4:X:47:MET:HE1	2.14	0.72
2:H:130:PRO:O	2:H:132:GLU:N	2.21	0.72
1:J:534:SER:CA	4:W:351:THR:HA	2.19	0.72
1:M:295:MLY:HG3	1:M:332:MET:HE2	1.69	0.72
1:M:640:LYS:O	1:M:645:SER:OG	2.06	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:804:ARG:HG2	1:M:808:GLU:CG	2.19	0.72
1:P:506:GLU:O	1:P:761:GLY:C	2.32	0.72
4:X:287:ILE:HG12	4:Z:201:VAL:CG2	2.18	0.72
1:D:724:TYR:HE1	1:D:778:MET:C	1.97	0.72
1:G:295:MLY:HG3	1:G:332:MET:HE2	1.69	0.72
1:J:295:MLY:HG3	1:J:332:MET:CE	2.20	0.72
1:M:21:GLU:O	1:M:25:ILE:HG13	1.89	0.72
1:M:36:SER:O	1:M:52:ILE:HG12	1.90	0.72
1:M:549:SER:O	4:2:48:GLY:HA2	1.89	0.72
1:M:735:GLY:CA	1:M:743:ALA:HA	2.18	0.72
1:P:640:LYS:O	1:P:645:SER:OG	2.06	0.72
1:A:557:GLU:N	4:V:48:GLY:HA3	1.90	0.72
1:D:721:LYS:CA	1:D:736:GLN:NE2	2.43	0.72
1:G:436:MLY:HE3	1:G:626:TYR:CE1	2.23	0.72
1:G:486:MLY:HH13	1:G:527:GLU:OE1	1.88	0.72
1:G:640:LYS:O	4:V:23:GLY:O	2.06	0.72
1:G:732:ILE:N	1:G:733:PRO:CD	2.51	0.72
1:G:735:GLY:CA	1:G:743:ALA:HA	2.18	0.72
1:J:237:THR:HG22	1:J:239:ARG:H	1.54	0.72
1:J:635:GLY:HA3	4:W:341:ILE:CD1	2.14	0.72
1:J:793:ARG:NH2	3:L:147:MET:HE3	2.02	0.72
1:J:829:TRP:CZ3	2:K:84:PHE:CE2	2.66	0.72
1:M:295:MLY:HG3	1:M:332:MET:CE	2.20	0.72
1:M:618:THR:O	1:M:622:LEU:HD13	1.89	0.72
1:M:723:ARG:NE	1:M:776:GLU:OE2	2.23	0.72
1:M:817:GLN:HG3	2:N:128:PHE:CE1	2.24	0.72
1:P:519:LEU:N	1:P:519:LEU:HD12	2.05	0.72
4:1:243:PRO:HB2	4:Y:291:LYS:HD2	1.68	0.72
4:2:43:VAL:O	4:Z:167:GLU:OE1	2.07	0.72
1:A:410:ASN:OD1	4:8:335:ARG:N	2.22	0.72
1:A:441:MET:O	1:A:445:ILE:HG13	1.89	0.72
1:A:519:LEU:HD12	1:A:519:LEU:N	2.04	0.72
1:D:190:MLY:HE3	1:D:230:GLU:OE2	1.89	0.72
1:D:823:PHE:HE1	2:E:161:GLU:N	1.85	0.72
1:G:640:LYS:O	1:G:645:SER:OG	2.06	0.72
1:G:792:ALA:HA	3:I:42:THR:HA	1.71	0.72
1:G:802:GLU:O	1:G:806:MET:HG3	1.89	0.72
3:I:24:LYS:CA	3:I:63:ILE:O	2.37	0.72
1:J:214:MET:HA	1:J:340:ILE:HD11	1.70	0.72
1:M:804:ARG:HG2	1:M:808:GLU:HG3	1.72	0.72
1:M:817:GLN:HG3	2:N:128:PHE:CZ	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:117:LEU:HD12	2:N:147:ASN:CA	2.19	0.72
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.72
1:A:36:SER:O	1:A:52:ILE:HG12	1.90	0.72
1:A:487:LEU:O	1:A:490:PHE:HB3	1.88	0.72
1:G:21:GLU:O	1:G:25:ILE:HG13	1.89	0.72
1:G:534:SER:CA	4:V:351:THR:HA	2.20	0.72
1:J:36:SER:O	1:J:52:ILE:HG12	1.90	0.72
1:J:486:MLY:HH13	1:J:527:GLU:OE1	1.88	0.72
1:J:640:LYS:O	1:J:645:SER:OG	2.06	0.72
1:J:820:VAL:CG1	2:K:136:MET:HE1	2.18	0.72
1:M:534:SER:CA	4:Z:351:THR:HA	2.19	0.72
1:M:834:LEU:CD1	2:N:51:PHE:HE1	1.83	0.72
1:P:530:MET:CE	4:1:355:MET:SD	2.77	0.72
1:P:546:THR:HG21	4:3:47:MET:CA	2.18	0.72
1:P:804:ARG:C	1:P:808:GLU:H	1.96	0.72
3:R:24:LYS:CA	3:R:63:ILE:O	2.36	0.72
4:1:201:VAL:HG23	4:Y:287:ILE:HG23	1.70	0.72
4:X:291:LYS:HD2	4:Z:243:PRO:C	2.10	0.72
1:A:190:MLY:HE3	1:A:230:GLU:OE2	1.89	0.72
1:D:519:LEU:HD12	1:D:519:LEU:N	2.05	0.72
1:D:618:THR:O	1:D:622:LEU:HD13	1.89	0.72
1:D:643:GLY:N	4:9:24:ASP:CA	2.46	0.72
1:G:410:ASN:OD1	4:V:335:ARG:N	2.21	0.72
1:G:736:GLN:HA	1:G:743:ALA:HB1	1.27	0.72
2:H:117:LEU:HD12	2:H:147:ASN:CA	2.20	0.72
3:I:48:LYS:C	3:I:52:ASN:HD22	1.97	0.72
1:J:487:LEU:O	1:J:490:PHE:HB3	1.89	0.72
1:M:214:MET:HA	1:M:340:ILE:HD11	1.70	0.72
1:M:237:THR:HG22	1:M:239:ARG:H	1.54	0.72
1:M:798:LEU:HG	3:O:122:GLU:HB3	1.72	0.72
1:P:618:THR:O	1:P:622:LEU:HD13	1.89	0.72
1:P:641:LYS:HD2	1:P:647:GLN:OE1	1.81	0.72
4:V:286:ASP:OD1	4:X:203:THR:N	2.23	0.72
4:X:287:ILE:HG13	4:Z:201:VAL:HG23	1.69	0.72
1:A:21:GLU:O	1:A:25:ILE:HG13	1.89	0.72
1:A:754:ASP:HB3	1:A:757:GLN:HG2	1.72	0.72
1:A:757:GLN:HB3	1:A:771:LEU:HD13	1.61	0.72
1:D:14:ALA:HB3	1:D:15:PRO:HD3	1.72	0.72
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.72
1:D:486:MLY:HH22	1:D:527:GLU:OE2	1.90	0.72
1:G:530:MET:CE	4:V:355:MET:SD	2.78	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:542:PHE:CD2	4:V:143:TYR:CE1	2.78	0.72
1:J:486:MLY:HH22	1:J:527:GLU:OE2	1.90	0.72
1:M:436:MLY:HE3	1:M:626:TYR:CE1	2.23	0.72
1:M:803:TYR:HE2	3:O:17:PHE:CE2	2.07	0.72
1:M:803:TYR:HD1	1:M:807:VAL:HG11	1.50	0.72
1:P:36:SER:O	1:P:52:ILE:HG12	1.90	0.72
1:P:486:MLY:HH22	1:P:527:GLU:OE2	1.90	0.72
1:P:530:MET:CG	4:1:354:GLN:CB	2.30	0.72
4:1:287:ILE:HB	4:3:203:THR:CB	2.19	0.72
4:2:203:THR:CB	4:Z:287:ILE:HB	2.19	0.72
4:3:3:ASP:HA	4:3:6:THR:CB	2.18	0.72
1:D:214:MET:HA	1:D:340:ILE:HD11	1.70	0.72
1:D:295:MLY:HG3	1:D:332:MET:CE	2.20	0.72
1:D:441:MET:O	1:D:445:ILE:HG13	1.88	0.72
1:D:536:LEU:HD13	1:D:550:PHE:CZ	2.24	0.72
1:D:831:TRP:CZ3	2:E:50:THR:HG21	2.25	0.72
1:G:36:SER:O	1:G:52:ILE:HG12	1.90	0.72
1:G:556:ASP:OD2	4:X:47:MET:HE3	1.85	0.72
1:M:709:LYS:O	1:M:768:MLY:CH1	2.38	0.72
3:O:24:LYS:CA	3:O:63:ILE:O	2.37	0.72
1:P:441:MET:O	1:P:445:ILE:HG13	1.89	0.72
1:P:542:PHE:CD2	4:1:143:TYR:CE1	2.77	0.72
1:P:788:THR:O	3:R:42:THR:HG21	1.89	0.72
1:A:486:MLY:HH22	1:A:527:GLU:OE2	1.90	0.72
1:A:505:MLY:HD3	1:A:762:HIS:HA	0.73	0.72
1:A:546:THR:HG22	1:A:548:THR:N	2.05	0.72
1:D:36:SER:O	1:D:52:ILE:HG12	1.90	0.72
1:G:506:GLU:OE2	1:G:760:PHE:O	2.06	0.72
1:G:538:GLU:OE2	4:V:355:MET:HE2	1.87	0.72
1:G:817:GLN:HG2	2:H:127:ARG:HB2	1.54	0.72
1:J:176:LEU:HD12	1:J:176:LEU:N	2.05	0.72
1:J:519:LEU:HD12	1:J:519:LEU:N	2.04	0.72
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	0.72
1:J:754:ASP:HB3	1:J:757:GLN:HG2	1.72	0.72
1:P:804:ARG:CB	1:P:808:GLU:HG3	2.19	0.72
1:D:534:SER:CA	4:9:351:THR:HA	2.19	0.72
1:D:727:LEU:CG	1:D:782:MLY:CE	2.60	0.72
1:J:641:LYS:HD2	1:J:647:GLN:OE1	1.81	0.72
1:J:802:GLU:O	1:J:806:MET:HG3	1.89	0.72
1:P:21:GLU:O	1:P:25:ILE:HG13	1.89	0.72
1:P:295:MLY:HG3	1:P:332:MET:CE	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:409:GLY:HA3	4:1:333:PRO:N	2.03	0.72
4:1:287:ILE:CB	4:3:203:THR:CG2	2.33	0.72
4:1:287:ILE:CG2	4:3:203:THR:CG2	2.61	0.72
4:8:290:ARG:HH22	4:V:202:THR:HG23	1.50	0.72
1:A:176:LEU:N	1:A:176:LEU:HD12	2.05	0.71
1:D:732:ILE:HD12	1:D:782:MLY:HH13	1.70	0.71
1:D:754:ASP:HB3	1:D:757:GLN:HG2	1.72	0.71
3:F:4:LYS:N	3:F:5:ALA:O	2.16	0.71
1:G:94:MET:O	1:G:713:SER:HA	1.89	0.71
1:G:176:LEU:HD12	1:G:176:LEU:N	2.05	0.71
1:J:537:GLU:C	4:W:351:THR:H	1.98	0.71
1:J:800:ARG:CG	3:L:149:VAL:HG22	2.20	0.71
1:M:534:SER:C	4:Z:351:THR:CA	2.47	0.71
1:M:538:GLU:OE2	4:Z:355:MET:HE2	1.86	0.71
1:M:804:ARG:CB	1:M:808:GLU:HG3	2.19	0.71
1:P:783:LEU:C	1:P:786:ILE:HG13	2.14	0.71
4:5:3:ASP:HA	4:5:6:THR:CB	2.18	0.71
1:G:530:MET:CG	4:V:354:GLN:CB	2.30	0.71
3:I:48:LYS:C	3:I:52:ASN:HD21	1.96	0.71
1:J:797:PHE:CE1	3:L:146:ILE:CA	2.58	0.71
1:M:786:ILE:C	1:M:787:ILE:N	2.48	0.71
3:O:48:LYS:C	3:O:52:ASN:HD21	1.96	0.71
1:P:176:LEU:HD12	1:P:176:LEU:N	2.05	0.71
1:P:754:ASP:HB3	1:P:757:GLN:HG2	1.72	0.71
1:P:795:ARG:HH21	3:R:116:GLU:HG2	1.19	0.71
3:R:4:LYS:N	3:R:5:ALA:O	2.16	0.71
4:1:3:ASP:HA	4:1:6:THR:CB	2.18	0.71
4:Y:3:ASP:HA	4:Y:6:THR:CB	2.17	0.71
1:A:530:MET:HE3	4:8:355:MET:SD	2.29	0.71
1:D:237:THR:HG22	1:D:239:ARG:H	1.54	0.71
1:D:530:MET:HE3	4:9:355:MET:SD	2.30	0.71
1:D:537:GLU:C	4:9:351:THR:H	1.98	0.71
1:G:97:LEU:CD2	1:G:712:PRO:CA	2.68	0.71
1:G:506:GLU:CD	1:G:760:PHE:O	2.33	0.71
1:G:618:THR:O	1:G:622:LEU:HD13	1.89	0.71
1:G:757:GLN:HG2	1:G:776:GLU:CD	2.13	0.71
2:H:136:MET:O	2:H:140:PHE:HB2	1.90	0.71
1:M:72:VAL:HG13	1:M:76:GLN:CB	2.19	0.71
1:M:546:THR:H	4:2:46:GLY:N	1.56	0.71
1:P:792:ALA:CB	3:R:42:THR:HA	2.21	0.71
1:A:237:THR:HG22	1:A:239:ARG:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:802:GLU:O	1:A:806:MET:HG3	1.89	0.71
1:D:176:LEU:HD12	1:D:176:LEU:N	2.05	0.71
2:E:144:VAL:CB	2:E:153:ILE:HD11	2.19	0.71
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.71
2:H:144:VAL:CB	2:H:153:ILE:HD11	2.19	0.71
1:J:618:THR:O	1:J:622:LEU:HD13	1.89	0.71
1:M:190:MLY:HE3	1:M:230:GLU:OE2	1.89	0.71
1:M:408:VAL:C	1:M:636:LYS:HG3	1.91	0.71
1:M:537:GLU:C	4:Z:351:THR:H	1.98	0.71
1:M:795:ARG:N	3:O:118:MET:CE	2.53	0.71
1:P:14:ALA:HB3	1:P:15:PRO:HD3	1.73	0.71
1:P:786:ILE:CA	1:P:787:ILE:N	2.53	0.71
2:Q:144:VAL:CB	2:Q:153:ILE:HD11	2.19	0.71
4:2:202:THR:HA	4:Z:287:ILE:CG1	2.18	0.71
1:D:762:HIS:H	1:D:762:HIS:CD2	2.08	0.71
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.20	0.71
1:D:813:ILE:CG2	2:E:128:PHE:HZ	1.87	0.71
1:G:217:THR:O	1:G:220:ASP:HB2	1.91	0.71
1:G:829:TRP:HZ3	2:H:84:PHE:CE1	2.08	0.71
1:J:441:MET:O	1:J:445:ILE:HG13	1.89	0.71
1:J:817:GLN:HB3	2:K:127:ARG:CD	2.20	0.71
3:L:48:LYS:C	3:L:52:ASN:HD21	1.96	0.71
1:M:86:ASP:OD2	1:M:87:MLY:HH13	1.91	0.71
4:2:202:THR:OG1	4:Z:287:ILE:HG23	1.88	0.71
1:A:245:ARG:HD3	1:A:271:GLU:OE1	1.90	0.71
1:A:707:CYS:CA	1:A:714:ARG:HH12	1.83	0.71
1:D:640:LYS:O	1:D:645:SER:OG	2.06	0.71
1:G:72:VAL:HG13	1:G:76:GLN:CB	2.19	0.71
1:J:217:THR:O	1:J:220:ASP:HB2	1.91	0.71
1:J:820:VAL:HG11	2:K:136:MET:CE	2.20	0.71
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.71
1:M:217:THR:O	1:M:220:ASP:HB2	1.91	0.71
2:N:136:MET:O	2:N:140:PHE:HB2	1.90	0.71
1:P:709:LYS:O	1:P:768:MLY:CH1	2.39	0.71
1:P:830:PRO:CB	2:Q:67:MET:CE	2.30	0.71
1:A:72:VAL:HG13	1:A:76:GLN:CB	2.19	0.71
1:A:537:GLU:HG3	4:8:350:SER:O	1.79	0.71
1:D:820:VAL:HG11	2:E:136:MET:HE1	1.71	0.71
1:J:14:ALA:HB3	1:J:15:PRO:HD3	1.73	0.71
1:J:797:PHE:CZ	3:L:126:LEU:HD22	2.26	0.71
1:M:831:TRP:CZ3	2:N:34:ILE:HG21	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:803:TYR:HD1	1:P:807:VAL:CG1	2.03	0.71
2:Q:136:MET:O	2:Q:140:PHE:HB2	1.90	0.71
4:W:3:ASP:HA	4:W:6:THR:CB	2.18	0.71
4:X:286:ASP:OD1	4:Z:203:THR:N	2.24	0.71
1:A:93:MET:C	1:A:713:SER:HB3	2.16	0.71
1:A:618:THR:O	1:A:622:LEU:HD13	1.89	0.71
1:D:245:ARG:HD3	1:D:271:GLU:OE1	1.90	0.71
1:D:831:TRP:CH2	2:E:50:THR:HB	2.26	0.71
2:E:136:MET:O	2:E:140:PHE:HB2	1.90	0.71
3:F:48:LYS:C	3:F:52:ASN:HD21	1.96	0.71
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	0.71
1:G:274:ARG:NH2	1:G:282:GLU:OE1	2.24	0.71
1:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.71
2:K:144:VAL:CG1	2:K:153:ILE:HD13	2.20	0.71
2:K:144:VAL:CB	2:K:153:ILE:HD11	2.19	0.71
1:M:519:LEU:N	1:M:519:LEU:HD12	2.05	0.71
1:M:541:MET:HG2	4:Z:345:ILE:C	2.16	0.71
1:M:641:LYS:HD2	4:Z:348:SER:HA	1.73	0.71
2:N:117:LEU:HB2	2:N:147:ASN:HD21	1.47	0.71
2:N:144:VAL:CB	2:N:153:ILE:HD11	2.20	0.71
1:P:506:GLU:CD	1:P:764:MLY:HG3	2.15	0.71
1:P:641:LYS:HD2	4:1:348:SER:HA	1.73	0.71
4:1:243:PRO:HB3	4:Y:291:LYS:CE	2.02	0.71
4:2:287:ILE:HG23	4:4:202:THR:HB	0.88	0.71
4:7:290:ARG:HH22	4:9:202:THR:HG23	1.50	0.71
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.73	0.71
1:A:274:ARG:NH2	1:A:282:GLU:OE1	2.24	0.71
1:A:537:GLU:C	4:8:351:THR:H	1.99	0.71
1:D:834:LEU:HD21	2:E:54:MET:SD	2.28	0.71
1:G:95:THR:HA	1:G:713:SER:CB	2.21	0.71
1:J:541:MET:HG2	4:W:345:ILE:C	2.16	0.71
1:M:546:THR:HG22	1:M:548:THR:N	2.05	0.71
1:P:86:ASP:OD2	1:P:87:MLY:HH13	1.91	0.71
1:P:541:MET:HG2	4:1:345:ILE:C	2.16	0.71
1:P:819:ASN:CG	2:Q:92:ASP:N	2.48	0.71
4:3:287:ILE:HB	4:5:204:ALA:H	1.54	0.71
1:A:14:ALA:HB3	1:A:15:PRO:HD3	1.72	0.71
1:A:217:THR:O	1:A:220:ASP:HB2	1.90	0.71
1:A:295:MLY:HG3	1:A:332:MET:CE	2.20	0.71
1:A:768:MLY:C	1:A:771:LEU:HB2	2.21	0.71
1:D:274:ARG:NH2	1:D:282:GLU:OE1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:836:PHE:HE1	2:E:159:HIS:HB2	1.55	0.71
1:G:149:GLN:HG2	1:G:763:THR:HG22	1.65	0.71
1:J:762:HIS:H	1:J:762:HIS:CD2	2.07	0.71
1:M:546:THR:O	4:2:46:GLY:CA	2.37	0.71
1:M:549:SER:HB2	4:2:44:MET:O	1.91	0.71
1:M:762:HIS:H	1:M:762:HIS:CD2	2.08	0.71
1:P:237:THR:HG22	1:P:239:ARG:H	1.54	0.71
1:A:206:LYS:HD3	1:A:217:THR:HG23	0.71	0.70
1:D:86:ASP:OD2	1:D:87:MLY:HH13	1.91	0.70
1:D:217:THR:O	1:D:220:ASP:HB2	1.91	0.70
1:G:245:ARG:HD3	1:G:271:GLU:OE1	1.90	0.70
1:G:557:GLU:HA	4:X:48:GLY:CA	2.18	0.70
1:M:14:ALA:HB3	1:M:15:PRO:HD3	1.73	0.70
1:M:542:PHE:HA	4:Z:143:TYR:HE1	1.34	0.70
2:N:144:VAL:CG1	2:N:153:ILE:HD13	2.20	0.70
1:P:217:THR:O	1:P:220:ASP:HB2	1.91	0.70
4:4:3:ASP:HA	4:4:6:THR:CB	2.18	0.70
4:9:3:ASP:HA	4:9:6:THR:CB	2.18	0.70
4:Z:3:ASP:HA	4:Z:6:THR:CB	2.18	0.70
1:A:768:MLY:HB3	1:A:771:LEU:HD13	1.70	0.70
1:G:295:MLY:HG3	1:G:332:MET:CE	2.20	0.70
1:G:734:GLU:OE2	3:I:109:HIS:CE1	2.44	0.70
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	0.70
1:G:762:HIS:H	1:G:762:HIS:CD2	2.08	0.70
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	2.09	0.70
1:J:28:GLN:OE1	1:J:723:ARG:HG2	1.90	0.70
1:J:530:MET:CG	4:W:354:GLN:CB	2.30	0.70
1:J:739:ASP:CB	1:J:742:LYS:HB3	2.12	0.70
1:J:829:TRP:HZ3	2:K:84:PHE:CE1	1.79	0.70
1:M:754:ASP:HB3	1:M:757:GLN:HG2	1.72	0.70
1:P:810:ARG:HH11	1:P:810:ARG:HG2	1.57	0.70
4:V:287:ILE:HD11	4:X:201:VAL:O	1.76	0.70
4:X:324:THR:HB	4:Z:247:VAL:H	1.55	0.70
1:A:579:PHE:HD2	1:A:592:ILE:HD11	1.57	0.70
1:D:798:LEU:CD2	3:F:122:GLU:HB3	2.20	0.70
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.70
1:J:732:ILE:CG2	1:J:747:LEU:HD11	1.26	0.70
1:J:832:MET:SD	2:K:84:PHE:HE2	2.13	0.70
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.70
1:M:176:LEU:HD12	1:M:176:LEU:N	2.05	0.70
1:M:206:LYS:HD3	1:M:217:THR:HG23	0.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:579:PHE:HD2	1:M:592:ILE:HD11	1.56	0.70
1:P:166:MET:HE1	1:P:254:PHE:HB2	1.73	0.70
1:P:506:GLU:OE2	1:P:763:THR:C	2.34	0.70
1:P:530:MET:HE3	4:1:355:MET:SD	2.30	0.70
1:P:733:PRO:CB	3:R:85:GLU:HG2	2.20	0.70
1:P:838:ILE:HG13	2:Q:54:MET:CE	2.20	0.70
1:A:732:ILE:HG21	1:A:747:LEU:HD11	0.73	0.70
1:G:14:ALA:HB3	1:G:15:PRO:HD3	1.72	0.70
1:G:519:LEU:HD12	1:G:519:LEU:N	2.05	0.70
1:J:56:GLU:CB	1:J:59:MLY:HB3	2.19	0.70
1:M:486:MLY:HH22	1:M:527:GLU:OE2	1.90	0.70
1:M:577:ALA:O	1:M:578:HIS:CG	2.45	0.70
1:M:813:ILE:HG23	2:N:128:PHE:HZ	1.25	0.70
1:P:274:ARG:NH2	1:P:282:GLU:OE1	2.24	0.70
1:P:803:TYR:CD1	1:P:807:VAL:HG22	2.25	0.70
4:8:3:ASP:HA	4:8:6:THR:CB	2.18	0.70
1:A:123:CYS:HB2	1:A:158:ILE:HD11	1.73	0.70
1:A:498:LEU:HD23	1:A:764:MLY:HH22	1.74	0.70
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.73	0.70
1:G:503:TYR:CZ	1:G:711:PHE:CD2	2.80	0.70
1:J:86:ASP:OD2	1:J:87:MLY:HH13	1.91	0.70
3:L:48:LYS:HB3	3:L:52:ASN:HD21	1.57	0.70
1:M:245:ARG:HD3	1:M:271:GLU:OE1	1.90	0.70
1:M:530:MET:HE3	4:Z:355:MET:SD	2.30	0.70
1:M:707:CYS:O	1:M:710:GLY:N	2.23	0.70
1:P:502:GLU:HG2	1:P:766:PHE:CZ	2.27	0.70
1:P:579:PHE:HD2	1:P:592:ILE:HD11	1.57	0.70
4:2:203:THR:N	4:Z:287:ILE:HB	2.04	0.70
1:A:93:MET:HE2	1:A:716:LEU:N	2.05	0.70
1:D:206:LYS:HD3	1:D:217:THR:HG23	0.71	0.70
1:D:579:PHE:HD2	1:D:592:ILE:HD11	1.56	0.70
1:D:712:PRO:HB2	1:D:771:LEU:HB3	1.73	0.70
1:D:795:ARG:CD	3:F:35:ARG:HH12	2.04	0.70
2:E:163:ALA:C	2:K:21:GLU:HB3	2.15	0.70
1:G:530:MET:HE3	4:V:355:MET:SD	2.31	0.70
1:J:94:MET:O	1:J:713:SER:CA	2.38	0.70
1:J:245:ARG:HD3	1:J:271:GLU:OE1	1.90	0.70
1:M:218:LEU:HB2	1:M:221:GLN:CG	2.09	0.70
1:P:245:ARG:HD3	1:P:271:GLU:OE1	1.90	0.70
1:P:537:GLU:C	4:1:351:THR:H	1.98	0.70
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:148:ARG:HH21	1:G:764:MLY:CH2	2.02	0.70
1:G:213:LYS:HA	1:G:220:ASP:OD1	1.92	0.70
1:J:577:ALA:O	1:J:578:HIS:CG	2.45	0.70
1:J:579:PHE:HD2	1:J:592:ILE:HD11	1.57	0.70
1:M:732:ILE:HG23	1:M:747:LEU:CB	1.84	0.70
1:P:787:ILE:HG22	1:P:788:THR:N	2.07	0.70
1:P:795:ARG:HB3	3:R:35:ARG:HH12	1.54	0.70
4:X:324:THR:HB	4:Z:246:GLN:CA	2.20	0.70
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	0.70
1:A:739:ASP:CB	1:A:742:LYS:HB3	2.13	0.70
1:D:546:THR:HG22	1:D:548:THR:N	2.05	0.70
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.70	0.70
1:D:787:ILE:HG22	1:D:788:THR:N	2.07	0.70
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.70
1:J:274:ARG:NH2	1:J:282:GLU:OE1	2.24	0.70
1:M:795:ARG:HB2	3:O:35:ARG:NH1	2.07	0.70
2:N:111:SER:OG	2:N:148:VAL:HG12	1.92	0.70
2:Q:111:SER:OG	2:Q:148:VAL:HG12	1.92	0.70
3:R:48:LYS:O	3:R:52:ASN:CG	2.35	0.70
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.70
1:D:56:GLU:CB	1:D:59:MLY:HB3	2.20	0.70
1:D:72:VAL:HG13	1:D:76:GLN:CB	2.19	0.70
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.73	0.70
1:D:810:ARG:HG2	1:D:810:ARG:HH11	1.57	0.70
3:F:48:LYS:HB3	3:F:52:ASN:HD21	1.57	0.70
1:G:206:LYS:HD3	1:G:217:THR:HG23	0.70	0.70
1:G:534:SER:C	4:V:351:THR:CA	2.48	0.70
1:G:537:GLU:C	4:V:351:THR:H	1.99	0.70
1:G:577:ALA:O	1:G:578:HIS:CG	2.45	0.70
1:G:810:ARG:HG2	1:G:810:ARG:HH11	1.56	0.70
2:H:117:LEU:CB	2:H:147:ASN:OD1	2.39	0.70
1:J:95:THR:HA	1:J:713:SER:HB3	1.53	0.70
1:J:530:MET:HE3	4:W:355:MET:SD	2.30	0.70
1:M:782:MLY:C	1:M:783:LEU:HD12	2.22	0.70
1:M:797:PHE:HE2	3:O:126:LEU:CG	2.04	0.70
3:O:48:LYS:O	3:O:52:ASN:CG	2.34	0.70
1:P:762:HIS:CD2	1:P:762:HIS:H	2.08	0.70
4:3:1:ASP:HA	4:3:4:GLU:HB3	1.74	0.70
4:Y:1:ASP:HA	4:Y:4:GLU:HB3	1.74	0.70
1:A:641:LYS:HD2	4:8:348:SER:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:123:CYS:HB2	1:D:158:ILE:HD11	1.73	0.70
1:D:166:MET:HE1	1:D:254:PHE:HD2	1.56	0.70
1:D:800:ARG:HD2	3:F:149:VAL:HG13	1.74	0.70
2:E:111:SER:OG	2:E:148:VAL:HG12	1.92	0.70
2:E:144:VAL:CG1	2:E:153:ILE:HD13	2.19	0.70
1:G:782:MLY:C	1:G:783:LEU:HD12	2.22	0.70
1:G:796:GLY:HA2	3:I:35:ARG:HD3	0.77	0.70
1:G:796:GLY:CA	3:I:35:ARG:NE	2.55	0.70
1:G:813:ILE:HG21	2:H:128:PHE:HE1	1.46	0.70
1:J:505:MLY:HG3	1:J:762:HIS:HE1	1.50	0.70
1:J:710:GLY:O	1:J:772:LEU:CD2	2.40	0.70
1:J:810:ARG:HG2	1:J:810:ARG:HH11	1.57	0.70
1:J:821:ARG:HH12	2:K:127:ARG:CZ	2.04	0.70
1:M:123:CYS:HB2	1:M:158:ILE:HD11	1.73	0.70
1:M:274:ARG:NH2	1:M:282:GLU:OE1	2.24	0.70
1:P:506:GLU:HG2	1:P:766:PHE:CE1	2.16	0.70
1:P:577:ALA:O	1:P:578:HIS:CG	2.44	0.70
2:Q:117:LEU:HD12	2:Q:147:ASN:CA	2.19	0.70
1:A:213:LYS:HA	1:A:220:ASP:OD1	1.92	0.69
1:A:218:LEU:HB2	1:A:221:GLN:CG	2.10	0.69
1:D:727:LEU:HD11	1:D:782:MLY:CD	2.00	0.69
1:J:149:GLN:OE1	1:J:763:THR:HG21	1.91	0.69
1:M:56:GLU:CB	1:M:59:MLY:HB3	2.19	0.69
1:M:166:MET:HE1	1:M:254:PHE:HD2	1.56	0.69
1:M:541:MET:CG	4:Z:345:ILE:O	2.40	0.69
1:M:804:ARG:NH2	3:O:149:VAL:HG23	2.07	0.69
1:M:834:LEU:CD1	2:N:51:PHE:CD1	2.72	0.69
1:M:836:PHE:CE1	2:N:159:HIS:HA	2.26	0.69
1:P:782:MLY:C	1:P:783:LEU:HD12	2.22	0.69
1:P:817:GLN:CG	2:Q:127:ARG:HD2	2.20	0.69
4:1:247:VAL:H	4:Y:324:THR:HB	1.56	0.69
1:A:577:ALA:O	1:A:578:HIS:CG	2.44	0.69
1:A:630:ALA:O	4:8:25:ASP:HB2	1.92	0.69
1:G:579:PHE:HD2	1:G:592:ILE:HD11	1.57	0.69
3:I:25:ILE:O	3:I:63:ILE:HB	1.92	0.69
1:J:72:VAL:HG13	1:J:76:GLN:CB	2.19	0.69
1:J:756:THR:HG23	1:J:779:ARG:HD2	1.73	0.69
1:J:782:MLY:C	1:J:783:LEU:HD12	2.22	0.69
3:O:4:LYS:N	3:O:5:ALA:O	2.16	0.69
1:P:123:CYS:HB2	1:P:158:ILE:HD11	1.73	0.69
3:R:48:LYS:HB3	3:R:52:ASN:HD21	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:3:ASP:HA	4:7:6:THR:CB	2.18	0.69
4:V:3:ASP:HA	4:V:6:THR:CB	2.18	0.69
4:X:1:ASP:HA	4:X:4:GLU:HB3	1.74	0.69
1:A:541:MET:HG2	4:8:345:ILE:C	2.16	0.69
1:D:550:PHE:HA	4:W:46:GLY:HA3	1.66	0.69
1:G:541:MET:HG2	4:V:345:ILE:C	2.17	0.69
1:G:730:SER:OG	3:I:113:THR:CB	2.40	0.69
3:I:48:LYS:HB3	3:I:52:ASN:HD21	1.57	0.69
1:J:787:ILE:HG22	1:J:788:THR:N	2.07	0.69
1:M:723:ARG:NE	1:M:776:GLU:CD	2.50	0.69
1:M:787:ILE:HG22	1:M:788:THR:N	2.07	0.69
1:P:206:LYS:HD3	1:P:217:THR:HG23	0.71	0.69
1:P:636:LYS:HG3	4:1:334:GLU:CD	2.17	0.69
1:P:807:VAL:O	1:P:810:ARG:HB2	1.93	0.69
4:W:1:ASP:HA	4:W:4:GLU:HB3	1.74	0.69
1:A:762:HIS:CD2	1:A:762:HIS:H	2.08	0.69
1:D:782:MLY:C	1:D:783:LEU:HD12	2.22	0.69
1:G:218:LEU:HB2	1:G:221:GLN:CG	2.09	0.69
1:G:641:LYS:HD2	4:V:348:SER:HA	1.73	0.69
1:M:213:LYS:HA	1:M:220:ASP:OD1	1.92	0.69
1:M:630:ALA:O	4:Z:25:ASP:CB	2.41	0.69
3:O:48:LYS:HB3	3:O:52:ASN:HD21	1.57	0.69
1:P:802:GLU:OE1	1:P:802:GLU:HA	1.93	0.69
4:V:325:MET:CE	4:X:244:ASP:CB	2.70	0.69
1:A:86:ASP:OD2	1:A:87:MLY:HH13	1.91	0.69
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.18	0.69
1:D:712:PRO:HB2	1:D:771:LEU:CD2	2.21	0.69
1:D:727:LEU:CD1	1:D:782:MLY:NZ	2.47	0.69
1:G:508:ILE:CD1	1:G:759:ALA:HB2	2.10	0.69
1:G:553:MLY:HH12	4:X:45:VAL:CG2	2.21	0.69
1:G:787:ILE:HG22	1:G:788:THR:N	2.07	0.69
1:J:546:THR:HG22	1:J:548:THR:N	2.05	0.69
1:M:537:GLU:HG3	4:Z:350:SER:O	1.78	0.69
1:P:72:VAL:HG13	1:P:76:GLN:CB	2.19	0.69
1:P:725:ARG:NE	3:R:85:GLU:HG2	2.07	0.69
1:P:830:PRO:HB3	2:Q:67:MET:HE2	0.74	0.69
1:A:97:LEU:HD22	1:A:712:PRO:HB2	1.70	0.69
1:A:541:MET:CG	4:8:345:ILE:O	2.40	0.69
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.69
1:G:215:GLN:CA	1:G:340:ILE:CG2	2.63	0.69
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:111:SER:OG	2:H:148:VAL:HG12	1.92	0.69
1:J:641:LYS:HD2	4:W:348:SER:HA	1.73	0.69
1:J:818:TYR:CD1	2:K:127:ARG:NH1	2.61	0.69
3:L:25:ILE:O	3:L:63:ILE:HB	1.92	0.69
1:M:215:GLN:CA	1:M:340:ILE:CG2	2.63	0.69
1:M:630:ALA:O	4:Z:25:ASP:HB2	1.91	0.69
1:P:56:GLU:CB	1:P:59:MLY:HB3	2.20	0.69
1:P:546:THR:HG22	1:P:548:THR:N	2.05	0.69
4:X:3:ASP:HA	4:X:6:THR:CB	2.18	0.69
1:A:732:ILE:CG2	1:A:747:LEU:HD11	1.26	0.69
1:A:782:MLY:C	1:A:783:LEU:HD12	2.22	0.69
1:D:795:ARG:HE	3:F:116:GLU:HB3	1.56	0.69
1:D:802:GLU:OE1	1:D:802:GLU:HA	1.93	0.69
1:G:541:MET:CG	4:V:345:ILE:O	2.41	0.69
1:M:797:PHE:CE1	3:O:146:ILE:CG2	2.72	0.69
1:P:819:ASN:CG	2:Q:92:ASP:HB3	2.15	0.69
4:1:202:THR:C	4:Y:286:ASP:OD1	2.35	0.69
4:4:1:ASP:HA	4:4:4:GLU:HB3	1.74	0.69
4:6:3:ASP:HA	4:6:6:THR:CB	2.18	0.69
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.69
1:A:810:ARG:HG2	1:A:810:ARG:HH11	1.57	0.69
1:D:123:CYS:HB2	1:D:158:ILE:CD1	2.23	0.69
1:D:541:MET:HG2	4:9:345:ILE:C	2.16	0.69
1:D:795:ARG:HH22	3:F:116:GLU:CD	1.98	0.69
1:D:807:VAL:O	1:D:810:ARG:HB2	1.93	0.69
1:G:553:MLY:CD	4:X:45:VAL:HG12	2.23	0.69
2:H:144:VAL:CG1	2:H:153:ILE:HD13	2.20	0.69
1:J:95:THR:CA	1:J:713:SER:CB	2.64	0.69
1:J:166:MET:HE1	1:J:254:PHE:HD2	1.56	0.69
1:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	0.69
1:J:798:LEU:CD1	3:L:126:LEU:HD13	1.84	0.69
1:M:636:LYS:HG3	4:Z:334:GLU:CD	2.17	0.69
1:M:807:VAL:O	1:M:810:ARG:HB2	1.93	0.69
1:M:810:ARG:HG2	1:M:810:ARG:HH11	1.57	0.69
1:P:95:THR:HG21	1:P:770:GLY:HA2	1.69	0.69
1:P:630:ALA:O	4:1:25:ASP:HB2	1.92	0.69
1:P:804:ARG:CG	1:P:808:GLU:HA	2.22	0.69
2:Q:144:VAL:CG1	2:Q:153:ILE:HD13	2.20	0.69
3:R:25:ILE:O	3:R:63:ILE:HB	1.92	0.69
4:2:1:ASP:HA	4:2:4:GLU:HB3	1.74	0.69
4:2:287:ILE:CG2	4:4:203:THR:N	2.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:287:ILE:CG2	4:5:204:ALA:H	2.04	0.69
4:9:1:ASP:HA	4:9:4:GLU:HB3	1.74	0.69
4:W:325:MET:SD	4:Y:244:ASP:CG	2.75	0.69
4:Z:1:ASP:HA	4:Z:4:GLU:HB3	1.74	0.69
1:D:641:LYS:HD2	4:9:348:SER:HA	1.73	0.69
3:F:25:ILE:O	3:F:63:ILE:HB	1.92	0.69
1:G:643:GLY:N	4:V:24:ASP:CA	2.47	0.69
1:G:707:CYS:SG	1:G:714:ARG:NH1	2.66	0.69
1:G:792:ALA:CB	3:I:42:THR:HG23	2.18	0.69
1:G:795:ARG:CA	3:I:118:MET:CE	2.71	0.69
1:G:815:CYS:O	1:G:819:ASN:HB2	1.93	0.69
3:O:3:SER:O	3:O:4:LYS:CB	2.41	0.69
4:1:1:ASP:HA	4:1:4:GLU:HB3	1.74	0.69
4:3:324:THR:CG2	4:5:243:PRO:C	2.57	0.69
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.51	0.69
4:V:1:ASP:HA	4:V:4:GLU:HB3	1.74	0.69
1:A:642:LYS:HB3	4:8:21:PHE:O	1.93	0.69
1:A:815:CYS:O	1:A:819:ASN:HB2	1.93	0.69
1:D:553:MLY:HG2	4:W:47:MET:N	2.07	0.69
3:F:3:SER:O	3:F:4:LYS:CB	2.41	0.69
1:G:533:PHE:O	1:G:537:GLU:HG2	1.93	0.69
1:G:755:HIS:N	1:G:779:ARG:CZ	2.55	0.69
3:I:3:SER:O	3:I:4:LYS:CB	2.41	0.69
1:J:123:CYS:HB2	1:J:158:ILE:CD1	2.23	0.69
1:J:166:MET:HE1	1:J:254:PHE:HB2	1.74	0.69
1:J:642:LYS:HB3	4:W:21:PHE:O	1.92	0.69
1:J:643:GLY:N	4:W:24:ASP:CA	2.46	0.69
1:J:800:ARG:O	3:L:149:VAL:HG21	1.93	0.69
1:P:541:MET:CG	4:1:345:ILE:O	2.40	0.69
1:P:643:GLY:N	4:1:24:ASP:CA	2.46	0.69
1:P:725:ARG:HH11	3:R:89:GLU:CG	2.03	0.69
1:P:831:TRP:HE1	2:Q:67:MET:HB3	1.58	0.69
1:A:28:GLN:NE2	1:A:723:ARG:NH2	2.27	0.68
1:A:768:MLY:CA	1:A:771:LEU:HB2	2.23	0.68
1:D:533:PHE:O	1:D:537:GLU:HG2	1.93	0.68
1:D:797:PHE:CD2	3:F:126:LEU:HD22	2.14	0.68
1:G:642:LYS:HB3	4:V:21:PHE:O	1.92	0.68
1:J:802:GLU:OE1	1:J:802:GLU:HA	1.93	0.68
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	0.68
1:M:123:CYS:HB2	1:M:158:ILE:CD1	2.23	0.68
1:M:166:MET:HE1	1:M:254:PHE:HB2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:149:ASP:OD2	2:N:150:TYR:C	2.36	0.68
1:P:537:GLU:C	4:1:351:THR:N	2.51	0.68
4:3:290:ARG:NH2	4:5:202:THR:HG22	1.98	0.68
4:7:1:ASP:HA	4:7:4:GLU:HB3	1.74	0.68
1:A:62:VAL:HG12	1:A:63:MLY:O	1.94	0.68
1:A:166:MET:HE1	1:A:254:PHE:HD2	1.56	0.68
1:D:213:LYS:HA	1:D:220:ASP:OD1	1.92	0.68
1:G:56:GLU:CB	1:G:59:MLY:HB3	2.19	0.68
1:G:642:LYS:CG	4:V:22:ALA:C	2.67	0.68
1:G:807:VAL:O	1:G:810:ARG:HB2	1.93	0.68
1:J:652:LEU:O	1:J:655:GLU:N	2.27	0.68
1:J:829:TRP:CH2	2:K:87:LYS:NZ	2.54	0.68
1:J:831:TRP:HZ2	2:K:47:LEU:HD21	1.58	0.68
2:K:117:LEU:HD12	2:K:147:ASN:CA	2.19	0.68
1:M:537:GLU:C	4:Z:351:THR:N	2.51	0.68
1:P:123:CYS:HB2	1:P:158:ILE:CD1	2.23	0.68
1:P:642:LYS:HB3	4:1:21:PHE:O	1.92	0.68
4:2:3:ASP:HA	4:2:6:THR:CB	2.17	0.68
1:D:630:ALA:O	4:9:25:ASP:HB2	1.92	0.68
1:G:123:CYS:HB2	1:G:158:ILE:HD11	1.73	0.68
1:G:557:GLU:HB2	4:X:47:MET:C	2.16	0.68
1:G:795:ARG:HA	3:I:118:MET:CE	2.23	0.68
1:J:84:MLY:HH21	1:J:720:PHE:C	2.17	0.68
1:J:213:LYS:HA	1:J:220:ASP:OD1	1.92	0.68
1:J:769:ALA:HB2	1:J:770:GLY:HA2	1.69	0.68
1:M:737:PHE:CE2	3:O:93:VAL:CG2	2.74	0.68
1:P:166:MET:HE1	1:P:254:PHE:HD2	1.56	0.68
1:P:643:GLY:H	4:1:23:GLY:C	2.01	0.68
1:P:652:LEU:O	1:P:655:GLU:N	2.27	0.68
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	0.68
1:D:537:GLU:C	4:9:351:THR:N	2.51	0.68
1:D:724:TYR:CD1	1:D:782:MLY:CD	2.74	0.68
1:G:537:GLU:C	4:V:351:THR:N	2.51	0.68
1:J:206:LYS:HD3	1:J:217:THR:HG23	0.71	0.68
1:J:643:GLY:H	4:W:23:GLY:C	2.02	0.68
1:J:801:VAL:HG21	3:L:126:LEU:HD21	1.75	0.68
1:J:807:VAL:O	1:J:810:ARG:HB2	1.93	0.68
1:M:817:GLN:CG	2:N:127:ARG:CB	2.69	0.68
1:P:213:LYS:HA	1:P:220:ASP:OD1	1.92	0.68
1:P:502:GLU:OE2	1:P:764:MLY:HE2	1.94	0.68
1:P:533:PHE:O	1:P:537:GLU:HG2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:160:THR:HG21	4:8:274:ILE:HD11	1.76	0.68
4:V:160:THR:HG21	4:V:274:ILE:HD11	1.76	0.68
1:D:732:ILE:HG21	1:D:747:LEU:HD11	0.73	0.68
1:G:97:LEU:HD22	1:G:712:PRO:HB2	1.76	0.68
1:G:831:TRP:HZ3	2:H:34:ILE:HG21	1.58	0.68
2:H:149:ASP:OD2	2:H:150:TYR:C	2.37	0.68
1:J:537:GLU:C	4:W:351:THR:N	2.51	0.68
1:J:630:ALA:O	4:W:25:ASP:HB2	1.91	0.68
1:M:62:VAL:HG12	1:M:63:MLY:O	1.94	0.68
3:O:25:ILE:O	3:O:63:ILE:HB	1.92	0.68
1:P:642:LYS:CG	4:1:22:ALA:C	2.67	0.68
1:P:795:ARG:CG	3:R:118:MET:CE	2.25	0.68
1:P:829:TRP:HZ3	2:Q:84:PHE:CE2	2.11	0.68
4:1:287:ILE:HD13	4:3:203:THR:HB	1.75	0.68
4:X:160:THR:HG21	4:X:274:ILE:HD11	1.76	0.68
1:D:747:LEU:HD11	1:D:782:MLY:HH22	1.72	0.68
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.68
1:J:52:ILE:HD13	1:J:52:ILE:N	2.09	0.68
1:J:815:CYS:O	1:J:819:ASN:HB2	1.93	0.68
1:P:215:GLN:HA	1:P:340:ILE:CB	2.23	0.68
1:A:52:ILE:HD13	1:A:52:ILE:N	2.08	0.68
1:D:52:ILE:HD13	1:D:52:ILE:N	2.09	0.68
1:D:541:MET:CG	4:9:345:ILE:O	2.41	0.68
1:D:725:ARG:CA	1:D:782:MLY:HH22	2.21	0.68
1:G:123:CYS:HB2	1:G:158:ILE:CD1	2.23	0.68
1:J:408:VAL:HG12	4:W:332:PRO:HB3	1.76	0.68
1:J:533:PHE:O	1:J:537:GLU:HG2	1.93	0.68
1:J:541:MET:CG	4:W:345:ILE:O	2.40	0.68
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.68
1:M:550:PHE:HE2	1:M:592:ILE:HG23	1.59	0.68
1:M:795:ARG:C	3:O:35:ARG:NH2	2.52	0.68
1:M:829:TRP:HH2	2:N:84:PHE:CD1	2.10	0.68
3:R:3:SER:O	3:R:4:LYS:CB	2.41	0.68
4:3:160:THR:HG21	4:3:274:ILE:HD11	1.76	0.68
1:A:93:MET:CE	1:A:715:VAL:CA	2.36	0.68
1:A:550:PHE:HE2	1:A:592:ILE:HG23	1.59	0.68
1:A:630:ALA:O	4:8:25:ASP:CB	2.41	0.68
1:A:802:GLU:OE1	1:A:802:GLU:HA	1.92	0.68
1:J:630:ALA:O	4:W:25:ASP:CB	2.41	0.68
1:J:819:ASN:HD21	2:K:92:ASP:CB	2.06	0.68
2:K:117:LEU:CB	2:K:147:ASN:OD1	2.39	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:4:LYS:N	3:L:5:ALA:O	2.16	0.68
1:M:642:LYS:CG	4:Z:22:ALA:C	2.67	0.68
1:M:769:ALA:CA	1:M:770:GLY:N	2.57	0.68
1:M:791:GLN:CD	3:O:116:GLU:N	2.50	0.68
1:P:630:ALA:O	4:1:25:ASP:CB	2.41	0.68
1:A:149:GLN:CB	1:A:718:ALA:C	2.66	0.68
1:A:149:GLN:HA	1:A:719:ASP:OD1	1.93	0.68
1:A:768:MLY:C	1:A:771:LEU:HB3	2.24	0.68
1:D:408:VAL:HG12	4:9:332:PRO:HB3	1.76	0.68
1:J:546:THR:H	1:J:549:SER:HB3	1.59	0.68
1:J:831:TRP:CZ3	2:K:34:ILE:CD1	2.68	0.68
1:M:215:GLN:HA	1:M:340:ILE:CB	2.24	0.68
1:P:546:THR:H	1:P:549:SER:HB3	1.59	0.68
1:P:834:LEU:CD1	2:Q:51:PHE:CD1	2.73	0.68
2:Q:117:LEU:CB	2:Q:147:ASN:OD1	2.39	0.68
4:1:243:PRO:C	4:Y:291:LYS:HE2	2.19	0.68
4:5:160:THR:HG21	4:5:274:ILE:HD11	1.76	0.68
1:A:56:GLU:CB	1:A:59:MLY:HB3	2.19	0.68
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.68
1:G:802:GLU:OE1	1:G:802:GLU:HA	1.93	0.68
1:M:642:LYS:HB3	4:Z:21:PHE:O	1.92	0.68
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.67
1:D:642:LYS:HB3	4:9:21:PHE:O	1.93	0.67
1:J:831:TRP:HH2	2:K:47:LEU:HD21	1.53	0.67
1:M:818:TYR:CZ	2:N:127:ARG:CZ	2.70	0.67
1:P:832:MET:SD	2:Q:84:PHE:CE2	2.81	0.67
1:P:834:LEU:CD1	2:Q:51:PHE:HE1	1.80	0.67
2:Q:140:PHE:O	2:Q:141:PRO:C	2.33	0.67
2:Q:150:TYR:C	2:Q:151:LYS:CG	2.48	0.67
4:2:153:LEU:HD11	4:2:274:ILE:HG13	1.76	0.67
4:6:153:LEU:HD11	4:6:274:ILE:HG13	1.76	0.67
4:Y:160:THR:HG21	4:Y:274:ILE:HD11	1.76	0.67
1:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.67
1:A:499:GLU:OE2	1:A:766:PHE:CE2	2.47	0.67
1:A:807:VAL:O	1:A:810:ARG:HB2	1.93	0.67
1:D:652:LEU:O	1:D:655:GLU:N	2.27	0.67
1:G:612:GLN:NE2	1:G:627:GLY:N	2.43	0.67
1:J:541:MET:C	4:W:143:TYR:CZ	2.73	0.67
1:J:834:LEU:HD13	2:K:51:PHE:CE1	2.28	0.67
1:M:795:ARG:HG2	3:O:118:MET:HE1	0.93	0.67
1:M:815:CYS:O	1:M:819:ASN:HB2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:817:GLN:CG	2:Q:127:ARG:CD	2.71	0.67
4:6:1:ASP:HA	4:6:4:GLU:HB3	1.74	0.67
4:7:153:LEU:HD11	4:7:274:ILE:HG13	1.76	0.67
1:A:787:ILE:HG22	1:A:788:THR:N	2.07	0.67
1:D:58:GLY:HA2	1:D:74:GLU:OE1	1.95	0.67
1:D:290:GLN:O	1:D:331:LEU:HD12	1.95	0.67
1:D:642:LYS:CG	4:9:22:ALA:C	2.67	0.67
1:D:815:CYS:O	1:D:819:ASN:HB2	1.93	0.67
1:G:290:GLN:O	1:G:331:LEU:HD12	1.95	0.67
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.67
1:M:612:GLN:NE2	1:M:627:GLY:N	2.43	0.67
1:P:202:SER:HA	1:P:207:LYS:HE3	1.72	0.67
4:4:153:LEU:HD11	4:4:274:ILE:HG13	1.76	0.67
1:A:58:GLY:HA2	1:A:74:GLU:OE1	1.94	0.67
1:D:723:ARG:NH2	1:D:779:ARG:NH2	2.42	0.67
1:D:823:PHE:CD1	2:E:160:GLY:HA3	2.29	0.67
1:G:546:THR:HG22	1:G:548:THR:N	2.05	0.67
1:G:797:PHE:CZ	3:I:126:LEU:CD2	2.57	0.67
1:G:829:TRP:CZ3	2:H:84:PHE:CE1	2.82	0.67
1:G:829:TRP:CZ2	2:H:83:MET:HE3	2.29	0.67
1:G:834:LEU:HD12	2:H:51:PHE:HE1	1.48	0.67
1:J:756:THR:C	1:J:776:GLU:CD	2.62	0.67
2:K:140:PHE:O	2:K:141:PRO:C	2.33	0.67
1:P:541:MET:C	4:1:143:TYR:CZ	2.72	0.67
1:D:217:THR:O	1:D:221:GLN:HG2	1.95	0.67
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.67
1:D:546:THR:H	1:D:549:SER:HB3	1.60	0.67
1:D:630:ALA:O	4:9:25:ASP:CB	2.41	0.67
1:D:724:TYR:HB3	1:D:782:MLY:CD	2.13	0.67
2:E:149:ASP:OD2	2:E:150:TYR:C	2.37	0.67
1:G:62:VAL:HG12	1:G:63:MLY:O	1.94	0.67
2:K:117:LEU:CG	2:K:147:ASN:HB3	2.25	0.67
1:M:290:GLN:O	1:M:331:LEU:HD12	1.95	0.67
1:M:652:LEU:O	1:M:655:GLU:N	2.26	0.67
1:M:804:ARG:CG	1:M:808:GLU:HG3	2.25	0.67
2:N:117:LEU:CG	2:N:147:ASN:HB3	2.25	0.67
1:P:58:GLY:HA2	1:P:74:GLU:OE1	1.95	0.67
2:Q:149:ASP:OD2	2:Q:150:TYR:C	2.36	0.67
4:1:244:ASP:N	4:Y:291:LYS:HG3	2.05	0.67
4:X:153:LEU:HD11	4:X:274:ILE:HG13	1.76	0.67
1:A:123:CYS:HB2	1:A:158:ILE:CD1	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:TRP:O	1:A:132:LEU:HD12	1.95	0.67
1:A:553:MLY:HG2	4:V:47:MET:N	2.07	0.67
1:D:374:GLN:HG3	1:D:375:ALA:H	1.60	0.67
1:D:550:PHE:HE2	1:D:592:ILE:HG23	1.59	0.67
1:D:712:PRO:CD	1:D:771:LEU:HD13	2.24	0.67
1:P:502:GLU:HG3	1:P:766:PHE:CZ	2.19	0.67
1:P:730:SER:C	1:P:733:PRO:HD2	2.20	0.67
1:P:831:TRP:CZ3	2:Q:34:ILE:HG21	2.30	0.67
2:Q:117:LEU:CG	2:Q:147:ASN:HB3	2.24	0.67
4:1:247:VAL:N	4:Y:324:THR:CG2	2.58	0.67
4:W:160:THR:HG21	4:W:274:ILE:HD11	1.76	0.67
1:A:546:THR:H	1:A:549:SER:HB3	1.59	0.67
1:D:823:PHE:CE1	2:E:161:GLU:N	2.62	0.67
3:F:102:VAL:HG23	3:F:139:TYR:HD1	1.59	0.67
1:G:52:ILE:HD13	1:G:52:ILE:N	2.09	0.67
1:G:652:LEU:O	1:G:655:GLU:N	2.27	0.67
1:J:642:LYS:CG	4:W:22:ALA:C	2.67	0.67
2:K:141:PRO:O	2:K:145:ALA:CB	2.43	0.67
1:M:802:GLU:OE1	1:M:802:GLU:HA	1.93	0.67
1:P:95:THR:O	1:P:769:ALA:HB1	1.94	0.67
1:P:815:CYS:O	1:P:819:ASN:HB2	1.93	0.67
4:4:160:THR:HG21	4:4:274:ILE:HD11	1.76	0.67
4:Z:153:LEU:HD11	4:Z:274:ILE:HG13	1.76	0.67
1:A:149:GLN:HG2	1:A:719:ASP:OD1	1.92	0.67
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.67
1:D:831:TRP:CE2	2:E:51:PHE:CE1	2.83	0.67
1:G:28:GLN:O	1:G:723:ARG:NH2	2.27	0.67
1:G:58:GLY:HA2	1:G:74:GLU:OE1	1.95	0.67
1:G:795:ARG:HH21	3:I:116:GLU:CB	2.07	0.67
1:J:62:VAL:HG12	1:J:63:MLY:O	1.94	0.67
1:J:217:THR:O	1:J:221:GLN:HG2	1.95	0.67
1:J:480:ILE:HG22	1:J:481:ASN:ND2	2.10	0.67
1:J:756:THR:CG2	1:J:776:GLU:O	2.27	0.67
1:J:820:VAL:HG11	2:K:136:MET:HE1	1.77	0.67
1:P:480:ILE:HG22	1:P:481:ASN:ND2	2.10	0.67
1:P:648:THR:CB	4:1:350:SER:OG	2.43	0.67
4:9:153:LEU:HD11	4:9:274:ILE:HG13	1.76	0.67
4:9:160:THR:HG21	4:9:274:ILE:HD11	1.76	0.67
4:Z:160:THR:HG21	4:Z:274:ILE:HD11	1.76	0.67
1:A:533:PHE:O	1:A:537:GLU:HG2	1.93	0.67
1:A:754:ASP:CG	1:A:778:MET:HE1	2.17	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:VAL:HG12	1:D:63:MLY:O	1.94	0.67
1:D:648:THR:CB	4:9:350:SER:OG	2.43	0.67
1:D:800:ARG:NH2	3:F:40:ASN:OD1	2.25	0.67
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.67
1:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.67
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	0.67
1:G:792:ALA:HB1	3:I:42:THR:CA	2.15	0.67
3:I:102:VAL:HG23	3:I:139:TYR:HD1	1.60	0.67
3:L:24:LYS:HA	3:L:63:ILE:O	1.95	0.67
1:M:52:ILE:HD13	1:M:52:ILE:N	2.09	0.67
1:M:131:TRP:O	1:M:132:LEU:HD12	1.95	0.67
1:M:533:PHE:O	1:M:537:GLU:HG2	1.93	0.67
2:N:141:PRO:O	2:N:145:ALA:CB	2.43	0.67
3:O:102:VAL:HG23	3:O:139:TYR:HD1	1.60	0.67
4:1:166:TYR:CZ	4:3:64:ILE:HG21	2.29	0.67
4:2:287:ILE:HG21	4:4:202:THR:OG1	1.89	0.67
1:A:652:LEU:O	1:A:655:GLU:N	2.27	0.67
1:D:818:TYR:CD2	2:E:90:GLY:CA	2.77	0.67
2:E:141:PRO:O	2:E:145:ALA:CB	2.43	0.67
3:I:24:LYS:HA	3:I:63:ILE:O	1.95	0.67
1:J:648:THR:CB	4:W:350:SER:OG	2.43	0.67
1:M:643:GLY:H	4:Z:23:GLY:C	2.02	0.67
1:P:217:THR:O	1:P:221:GLN:HG2	1.95	0.67
1:P:408:VAL:HG12	4:1:332:PRO:HB3	1.76	0.67
3:R:102:VAL:HG23	3:R:139:TYR:HD1	1.60	0.67
4:4:288:ASP:CB	4:6:203:THR:HG21	2.25	0.67
4:W:153:LEU:HD11	4:W:274:ILE:HG13	1.76	0.67
4:X:291:LYS:HG3	4:Z:244:ASP:N	1.86	0.67
1:A:648:THR:CB	4:8:350:SER:OG	2.44	0.66
1:D:769:ALA:C	1:D:774:LEU:CB	2.63	0.66
1:D:838:ILE:CD1	2:E:54:MET:HE1	2.24	0.66
1:G:829:TRP:CZ2	2:H:87:LYS:HE2	2.29	0.66
1:J:174:SER:O	1:J:670:HIS:HB2	1.96	0.66
1:J:791:GLN:NE2	3:L:115:GLY:CA	2.57	0.66
1:M:643:GLY:N	4:Z:24:ASP:CA	2.46	0.66
1:M:830:PRO:CG	2:N:67:MET:HG2	2.24	0.66
2:Q:141:PRO:O	2:Q:145:ALA:CB	2.43	0.66
4:3:287:ILE:HG22	4:5:204:ALA:HB3	1.76	0.66
4:V:153:LEU:HD11	4:V:274:ILE:HG13	1.76	0.66
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.66
1:D:174:SER:O	1:D:670:HIS:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:480:ILE:HG22	1:D:481:ASN:ND2	2.09	0.66
1:G:131:TRP:O	1:G:132:LEU:HD12	1.95	0.66
1:G:166:MET:HE1	1:G:254:PHE:HD2	1.56	0.66
1:G:506:GLU:OE2	1:G:760:PHE:HB2	1.95	0.66
1:G:541:MET:O	4:V:143:TYR:OH	2.14	0.66
1:J:97:LEU:HD23	1:J:712:PRO:CB	2.21	0.66
1:M:408:VAL:HG12	4:Z:332:PRO:HB3	1.76	0.66
1:P:52:ILE:HD13	1:P:52:ILE:N	2.09	0.66
1:P:550:PHE:HE2	1:P:592:ILE:HG23	1.59	0.66
2:Q:117:LEU:HD11	2:Q:147:ASN:HB3	1.76	0.66
4:2:203:THR:H	4:Z:287:ILE:CD1	2.06	0.66
4:3:287:ILE:CD1	4:5:203:THR:HB	2.19	0.66
4:7:160:THR:HG21	4:7:274:ILE:HD11	1.76	0.66
4:X:287:ILE:C	4:Z:205:GLU:OE1	2.37	0.66
1:A:408:VAL:HG12	4:8:332:PRO:HB3	1.76	0.66
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	0.66
1:A:730:SER:C	1:A:733:PRO:HD2	2.20	0.66
1:D:506:GLU:OE2	1:D:764:MLY:HE3	1.95	0.66
1:D:727:LEU:CG	1:D:782:MLY:CH1	2.62	0.66
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.66
1:G:643:GLY:H	4:V:23:GLY:C	2.02	0.66
1:G:783:LEU:O	1:G:787:ILE:CA	2.43	0.66
1:J:58:GLY:HA2	1:J:74:GLU:OE1	1.95	0.66
1:J:374:GLN:HG3	1:J:375:ALA:H	1.59	0.66
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.66
1:J:819:ASN:HD21	2:K:92:ASP:HB2	1.50	0.66
1:M:58:GLY:HA2	1:M:74:GLU:OE1	1.95	0.66
1:M:480:ILE:HG22	1:M:481:ASN:ND2	2.10	0.66
1:M:541:MET:C	4:Z:143:TYR:CZ	2.72	0.66
1:M:730:SER:C	1:M:733:PRO:HD2	2.19	0.66
1:M:732:ILE:HG22	1:M:747:LEU:CD1	1.55	0.66
1:P:791:GLN:NE2	3:R:116:GLU:H	1.93	0.66
1:A:78:PHE:HB3	1:A:98:HIS:CD2	2.30	0.66
1:A:92:ALA:O	1:A:713:SER:HA	1.95	0.66
1:D:418:THR:HG22	1:D:419:VAL:N	2.11	0.66
1:D:726:VAL:O	1:D:785:GLU:CG	2.43	0.66
2:E:141:PRO:O	2:E:145:ALA:HB2	1.96	0.66
1:G:78:PHE:HB3	1:G:98:HIS:CD2	2.30	0.66
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	0.66
1:G:754:ASP:C	1:G:776:GLU:OE1	2.38	0.66
1:G:784:ALA:O	1:G:788:THR:HB	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.66
1:J:131:TRP:O	1:J:132:LEU:HD12	1.95	0.66
1:J:756:THR:CG2	1:J:776:GLU:CB	2.71	0.66
1:P:226:ASN:HB2	1:P:227:PRO:HD3	1.78	0.66
3:R:24:LYS:HA	3:R:63:ILE:O	1.95	0.66
4:8:153:LEU:HD11	4:8:274:ILE:HG13	1.76	0.66
4:V:324:THR:HG23	4:X:247:VAL:H	1.61	0.66
4:Y:153:LEU:HD11	4:Y:274:ILE:HG13	1.76	0.66
1:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.66
1:D:61:THR:HG23	1:D:71:THR:OG1	1.95	0.66
1:D:792:ALA:HB2	3:F:42:THR:HG22	0.80	0.66
1:G:339:ASP:OD1	1:G:348:MLY:HH13	1.95	0.66
1:G:408:VAL:HG12	4:V:332:PRO:HB3	1.76	0.66
1:G:769:ALA:HB3	1:G:770:GLY:N	2.09	0.66
1:J:226:ASN:HB2	1:J:227:PRO:HD3	1.78	0.66
1:J:599:ASN:OD1	1:J:649:VAL:N	2.29	0.66
1:M:541:MET:O	4:Z:143:TYR:OH	2.14	0.66
1:M:599:ASN:OD1	1:M:649:VAL:N	2.29	0.66
1:M:817:GLN:CD	2:N:127:ARG:CB	2.69	0.66
1:P:612:GLN:NE2	1:P:627:GLY:N	2.43	0.66
1:P:739:ASP:CB	1:P:742:LYS:HB3	2.12	0.66
4:2:202:THR:HB	4:Z:287:ILE:CG1	2.26	0.66
1:A:149:GLN:CD	1:A:718:ALA:CB	2.54	0.66
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.66
1:A:505:MLY:N	1:A:762:HIS:CD2	2.63	0.66
1:D:131:TRP:O	1:D:132:LEU:HD12	1.95	0.66
1:D:599:ASN:OD1	1:D:649:VAL:N	2.28	0.66
1:D:643:GLY:H	4:9:23:GLY:C	2.02	0.66
1:D:791:GLN:NE2	3:F:114:LEU:O	2.28	0.66
1:D:799:MET:SD	3:F:32:ASP:HA	2.35	0.66
1:G:174:SER:O	1:G:670:HIS:HB2	1.96	0.66
1:G:530:MET:CG	4:V:354:GLN:CG	2.72	0.66
1:J:530:MET:CA	4:W:354:GLN:CB	2.74	0.66
1:J:838:ILE:HD12	2:K:54:MET:HE3	1.71	0.66
1:M:418:THR:HG22	1:M:419:VAL:N	2.11	0.66
2:N:141:PRO:O	2:N:145:ALA:HB2	1.96	0.66
1:P:78:PHE:HB3	1:P:98:HIS:CD2	2.30	0.66
1:P:374:GLN:HG3	1:P:375:ALA:H	1.59	0.66
1:P:726:VAL:CG2	3:R:86:ASP:OD1	2.43	0.66
1:P:803:TYR:HE2	3:R:17:PHE:CE2	2.13	0.66
3:R:48:LYS:C	3:R:52:ASN:HD21	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:153:LEU:HD11	4:1:274:ILE:HG13	1.76	0.66
4:1:160:THR:HG21	4:1:274:ILE:HD11	1.76	0.66
1:A:374:GLN:HG3	1:A:375:ALA:H	1.60	0.66
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.66
1:A:541:MET:C	4:8:143:TYR:CZ	2.73	0.66
1:A:635:GLY:O	4:8:341:ILE:HG21	1.96	0.66
1:D:78:PHE:HB3	1:D:98:HIS:CD2	2.30	0.66
1:D:612:GLN:NE2	1:D:627:GLY:N	2.43	0.66
1:D:727:LEU:H	1:D:782:MLY:CE	2.08	0.66
1:D:823:PHE:CD1	2:E:156:VAL:O	2.48	0.66
1:J:730:SER:C	1:J:733:PRO:HD2	2.20	0.66
1:J:831:TRP:CZ3	2:K:34:ILE:HG21	2.31	0.66
1:M:648:THR:CB	4:Z:350:SER:OG	2.43	0.66
1:M:795:ARG:HH21	3:O:116:GLU:CA	2.08	0.66
3:O:24:LYS:HA	3:O:63:ILE:O	1.95	0.66
1:P:732:ILE:CG2	1:P:747:LEU:HD11	1.26	0.66
1:P:817:GLN:HG3	2:Q:128:PHE:CE1	2.30	0.66
1:P:831:TRP:HH2	2:Q:47:LEU:HD21	1.55	0.66
4:6:160:THR:HG21	4:6:274:ILE:HD11	1.76	0.66
1:A:339:ASP:OD1	1:A:348:MLY:HH13	1.95	0.66
1:D:480:ILE:HG22	1:D:481:ASN:N	2.11	0.66
1:D:791:GLN:CD	3:F:115:GLY:HA3	2.15	0.66
1:G:791:GLN:CD	3:I:116:GLU:H	2.03	0.66
1:G:792:ALA:HB1	3:I:41:PRO:C	2.21	0.66
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.66
3:L:3:SER:O	3:L:4:LYS:CB	2.41	0.66
1:M:635:GLY:O	4:Z:341:ILE:HG21	1.95	0.66
1:M:639:GLY:N	4:Z:344:SER:C	2.54	0.66
1:M:797:PHE:HE1	3:O:146:ILE:HA	1.61	0.66
1:M:821:ARG:HH22	2:N:127:ARG:CD	2.07	0.66
1:P:62:VAL:HG12	1:P:63:MLY:O	1.94	0.66
1:P:530:MET:CA	4:1:354:GLN:CB	2.74	0.66
4:4:288:ASP:OD2	4:6:203:THR:CB	2.42	0.66
1:A:174:SER:O	1:A:670:HIS:HB2	1.96	0.66
1:A:642:LYS:CD	4:8:24:ASP:O	2.42	0.66
1:A:709:LYS:O	1:A:710:GLY:CA	2.44	0.66
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.66
2:E:117:LEU:CG	2:E:147:ASN:HB3	2.25	0.66
1:J:61:THR:HG23	1:J:71:THR:OG1	1.95	0.66
1:J:84:MLY:HH21	1:J:720:PHE:HA	0.66	0.66
1:J:538:GLU:HA	4:W:349:LEU:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.66
1:J:556:ASP:O	4:Y:48:GLY:N	2.29	0.66
1:J:635:GLY:O	4:W:341:ILE:HG21	1.95	0.66
1:J:795:ARG:HG2	3:L:118:MET:CE	2.21	0.66
1:M:218:LEU:HA	1:M:221:GLN:HG3	1.71	0.66
1:M:339:ASP:OD1	1:M:348:MLY:HH13	1.95	0.66
1:P:804:ARG:HG3	1:P:808:GLU:HA	1.76	0.66
1:A:61:THR:HG23	1:A:71:THR:OG1	1.95	0.66
1:A:93:MET:SD	1:A:715:VAL:HG13	2.36	0.66
1:A:217:THR:C	1:A:221:GLN:HG2	2.21	0.66
1:D:339:ASP:OD1	1:D:348:MLY:HH13	1.95	0.66
1:G:226:ASN:HB2	1:G:227:PRO:HD3	1.78	0.66
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.66
1:G:557:GLU:CB	4:X:47:MET:C	2.50	0.66
1:M:374:GLN:HG3	1:M:375:ALA:H	1.60	0.66
1:M:732:ILE:CG2	1:M:747:LEU:HD11	1.26	0.66
1:P:61:THR:HG23	1:P:71:THR:OG1	1.95	0.66
1:P:174:SER:O	1:P:670:HIS:HB2	1.95	0.66
1:P:290:GLN:O	1:P:331:LEU:HD12	1.95	0.66
1:P:296:MLY:HH11	1:P:348:MLY:HH21	1.78	0.66
1:P:635:GLY:O	4:1:341:ILE:HG21	1.95	0.66
1:P:732:ILE:HG21	1:P:747:LEU:HD11	0.73	0.66
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.76	0.66
4:2:322:PRO:CB	4:4:244:ASP:HB2	2.24	0.66
1:A:217:THR:O	1:A:221:GLN:HG2	1.95	0.65
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.65
1:D:798:LEU:HD21	3:F:122:GLU:HB3	1.76	0.65
1:D:818:TYR:CB	2:E:90:GLY:C	2.67	0.65
1:G:217:THR:C	1:G:221:GLN:HG2	2.21	0.65
1:J:78:PHE:HB3	1:J:98:HIS:CD2	2.30	0.65
1:J:691:VAL:O	1:J:695:LEU:HD13	1.97	0.65
1:M:322:VAL:HB	1:M:325:ILE:CD1	2.26	0.65
1:M:530:MET:CA	4:Z:354:GLN:CB	2.74	0.65
1:M:793:ARG:HH11	3:O:40:ASN:ND2	1.72	0.65
2:N:117:LEU:CB	2:N:147:ASN:OD1	2.40	0.65
1:P:217:THR:C	1:P:221:GLN:HG2	2.21	0.65
1:P:322:VAL:HB	1:P:325:ILE:CD1	2.26	0.65
1:P:339:ASP:OD1	1:P:348:MLY:HH13	1.96	0.65
1:P:418:THR:HG22	1:P:419:VAL:N	2.11	0.65
1:P:795:ARG:HH21	3:R:116:GLU:CA	2.10	0.65
2:Q:141:PRO:O	2:Q:145:ALA:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:247:VAL:H	4:Y:324:THR:CB	2.08	0.65
1:A:97:LEU:CD2	1:A:712:PRO:CA	2.74	0.65
1:A:480:ILE:HG22	1:A:481:ASN:ND2	2.10	0.65
1:A:643:GLY:H	4:8:23:GLY:C	2.02	0.65
1:D:226:ASN:HB2	1:D:227:PRO:HD3	1.78	0.65
1:D:530:MET:CA	4:9:354:GLN:CB	2.74	0.65
1:D:736:GLN:HA	1:D:743:ALA:HB2	1.51	0.65
1:D:831:TRP:CZ3	2:E:34:ILE:HG12	2.31	0.65
1:G:149:GLN:CB	1:G:763:THR:CG2	2.74	0.65
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.65
1:G:466:GLY:HA2	1:G:484:ASN:HD21	1.61	0.65
1:M:61:THR:HG23	1:M:71:THR:OG1	1.95	0.65
1:M:217:THR:O	1:M:221:GLN:HG2	1.95	0.65
1:M:466:GLY:HA2	1:M:484:ASN:HD21	1.61	0.65
1:M:791:GLN:OE1	3:O:116:GLU:HG3	1.96	0.65
3:O:45:GLU:O	3:O:49:ILE:HG13	1.97	0.65
1:P:161:ASN:O	1:P:165:PHE:HB2	1.96	0.65
4:2:288:ASP:H	4:4:203:THR:CG2	2.08	0.65
4:3:153:LEU:HD11	4:3:274:ILE:HG13	1.76	0.65
1:A:144:ARG:NH1	1:A:160:ASP:OD1	2.29	0.65
1:A:322:VAL:HB	1:A:325:ILE:CD1	2.26	0.65
1:A:639:GLY:N	4:8:344:SER:C	2.54	0.65
1:A:691:VAL:O	1:A:695:LEU:HD13	1.97	0.65
1:D:530:MET:CG	4:9:354:GLN:CG	2.71	0.65
1:D:557:GLU:N	4:W:48:GLY:HA3	1.90	0.65
1:D:795:ARG:HD2	3:F:43:ASN:OD1	1.87	0.65
1:D:800:ARG:HD2	3:F:149:VAL:C	2.21	0.65
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.65
3:F:49:ILE:HA	3:F:52:ASN:ND2	2.05	0.65
1:G:541:MET:C	4:V:143:TYR:CZ	2.73	0.65
1:G:599:ASN:OD1	1:G:649:VAL:N	2.29	0.65
2:H:117:LEU:CG	2:H:147:ASN:HB3	2.24	0.65
1:M:466:GLY:HA2	1:M:484:ASN:ND2	2.12	0.65
1:M:552:ASN:HD21	4:2:47:MET:CG	2.09	0.65
1:M:612:GLN:HE22	1:M:627:GLY:N	1.94	0.65
1:P:131:TRP:O	1:P:132:LEU:HD12	1.95	0.65
1:P:466:GLY:HA2	1:P:484:ASN:ND2	2.12	0.65
1:P:786:ILE:O	1:P:789:ALA:CB	2.43	0.65
4:2:287:ILE:HG13	4:4:202:THR:CB	2.27	0.65
1:A:530:MET:CG	4:8:354:GLN:CG	2.71	0.65
1:D:691:VAL:O	1:D:695:LEU:HD13	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.85	0.65
1:D:800:ARG:HB3	3:F:149:VAL:HG13	1.77	0.65
3:F:45:GLU:O	3:F:49:ILE:HG13	1.97	0.65
3:I:45:GLU:O	3:I:49:ILE:HG13	1.97	0.65
1:J:161:ASN:O	1:J:165:PHE:HB2	1.96	0.65
1:J:466:GLY:HA2	1:J:484:ASN:ND2	2.12	0.65
1:J:567:LYS:NZ	4:Y:92:ASN:HA	2.11	0.65
1:M:78:PHE:HB3	1:M:98:HIS:CD2	2.30	0.65
4:5:153:LEU:HD11	4:5:274:ILE:HG13	1.76	0.65
1:A:97:LEU:HD23	1:A:712:PRO:CB	2.24	0.65
1:A:149:GLN:CB	1:A:719:ASP:OD1	2.43	0.65
1:A:226:ASN:HB2	1:A:227:PRO:HD3	1.78	0.65
1:A:541:MET:O	4:8:143:TYR:OH	2.14	0.65
1:A:612:GLN:HE22	1:A:627:GLY:N	1.95	0.65
1:D:296:MLY:HH11	1:D:348:MLY:HH21	1.79	0.65
1:D:635:GLY:O	4:9:341:ILE:HG21	1.96	0.65
2:E:163:ALA:C	2:K:22:THR:N	2.53	0.65
1:G:61:THR:HG23	1:G:71:THR:OG1	1.95	0.65
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.79	0.65
1:G:161:ASN:O	1:G:165:PHE:HB2	1.96	0.65
1:G:813:ILE:HG22	2:H:128:PHE:CE1	2.29	0.65
1:J:290:GLN:O	1:J:331:LEU:HD12	1.95	0.65
1:J:296:MLY:HH11	1:J:348:MLY:HH21	1.78	0.65
1:M:410:ASN:CG	4:Z:334:GLU:C	2.65	0.65
1:P:804:ARG:HG2	1:P:808:GLU:HG2	1.71	0.65
1:D:556:ASP:HA	4:W:49:GLN:O	1.70	0.65
1:G:635:GLY:O	4:V:341:ILE:HG21	1.95	0.65
1:G:691:VAL:O	1:G:695:LEU:HD13	1.97	0.65
1:J:466:GLY:HA2	1:J:484:ASN:HD21	1.61	0.65
1:M:174:SER:O	1:M:670:HIS:HB2	1.96	0.65
1:M:723:ARG:HD2	1:M:776:GLU:OE2	1.94	0.65
2:N:150:TYR:C	2:N:151:LYS:CG	2.48	0.65
1:P:144:ARG:NH1	1:P:160:ASP:OD1	2.29	0.65
1:P:480:ILE:HG22	1:P:481:ASN:N	2.12	0.65
1:P:549:SER:HB2	4:3:43:VAL:CG2	2.18	0.65
1:P:691:VAL:O	1:P:695:LEU:HD13	1.96	0.65
4:1:202:THR:OG1	4:Y:286:ASP:OD1	2.14	0.65
4:1:245:GLY:C	4:Y:324:THR:O	2.39	0.65
4:W:324:THR:HG22	4:Y:247:VAL:HG13	1.77	0.65
4:X:287:ILE:O	4:Z:205:GLU:CD	2.38	0.65
1:A:505:MLY:HD2	1:A:741:LYS:NZ	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.65
1:D:322:VAL:HB	1:D:325:ILE:CD1	2.26	0.65
1:G:144:ARG:NH1	1:G:160:ASP:OD1	2.29	0.65
1:G:480:ILE:HG22	1:G:481:ASN:ND2	2.10	0.65
1:G:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.65
1:J:642:LYS:CD	4:W:24:ASP:O	2.43	0.65
3:L:45:GLU:O	3:L:49:ILE:HG13	1.96	0.65
1:M:665:ARG:C	1:M:667:THR:H	2.05	0.65
1:M:725:ARG:NE	1:M:737:PHE:HE1	1.95	0.65
1:P:599:ASN:OD1	1:P:649:VAL:N	2.29	0.65
1:P:642:LYS:CD	4:1:24:ASP:O	2.43	0.65
1:P:725:ARG:CZ	3:R:85:GLU:CB	2.74	0.65
1:P:783:LEU:CG	1:P:786:ILE:CD1	2.37	0.65
1:P:838:ILE:CD1	2:Q:54:MET:HE1	2.02	0.65
4:1:243:PRO:C	4:Y:291:LYS:HG3	2.21	0.65
4:1:247:VAL:HG22	4:Y:324:THR:HG22	0.67	0.65
4:1:287:ILE:CG1	4:3:203:THR:HB	2.27	0.65
1:A:530:MET:CA	4:8:354:GLN:CB	2.74	0.65
1:A:642:LYS:CD	4:8:340:TRP:CZ3	2.79	0.65
1:D:217:THR:C	1:D:221:GLN:HG2	2.21	0.65
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	0.65
1:G:648:THR:CB	4:V:350:SER:OG	2.44	0.65
1:J:217:THR:C	1:J:221:GLN:HG2	2.21	0.65
1:M:217:THR:HB	1:M:220:ASP:OD2	1.97	0.65
1:M:642:LYS:HA	4:Z:21:PHE:O	1.96	0.65
1:M:795:ARG:NE	3:O:116:GLU:OE2	2.30	0.65
1:M:822:SER:O	1:M:825:ASN:HB2	1.97	0.65
1:P:642:LYS:HA	4:1:21:PHE:O	1.96	0.65
1:P:725:ARG:NE	1:P:737:PHE:HE1	1.95	0.65
4:2:244:ASP:CB	4:Z:322:PRO:CB	2.65	0.65
1:D:144:ARG:NH1	1:D:160:ASP:OD1	2.30	0.65
1:D:636:LYS:O	1:D:637:LYS:CB	2.45	0.65
1:D:642:LYS:CD	4:9:340:TRP:CZ3	2.79	0.65
1:D:665:ARG:C	1:D:667:THR:H	2.05	0.65
1:D:800:ARG:HD3	3:F:149:VAL:O	1.95	0.65
1:D:822:SER:O	1:D:825:ASN:HB2	1.97	0.65
1:D:831:TRP:CH2	2:E:34:ILE:CG2	2.78	0.65
1:G:374:GLN:HG3	1:G:375:ALA:H	1.60	0.65
1:G:665:ARG:C	1:G:667:THR:H	2.05	0.65
1:M:226:ASN:HB2	1:M:227:PRO:HD3	1.78	0.65
1:P:723:ARG:CD	1:P:776:GLU:OE2	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:288:ASP:H	4:X:204:ALA:H	1.43	0.65
1:G:556:ASP:OD2	4:X:47:MET:CE	2.39	0.65
3:I:49:ILE:HA	3:I:52:ASN:ND2	2.05	0.65
1:J:95:THR:N	1:J:713:SER:HB3	2.11	0.65
1:J:418:THR:HG22	1:J:419:VAL:N	2.11	0.65
1:J:725:ARG:NE	1:J:737:PHE:HE1	1.95	0.65
1:M:217:THR:C	1:M:221:GLN:HG2	2.22	0.65
1:M:538:GLU:HA	4:Z:349:LEU:HB3	1.78	0.65
1:M:636:LYS:O	1:M:637:LYS:CB	2.45	0.65
1:M:796:GLY:HA2	3:O:35:ARG:CZ	2.26	0.65
1:P:94:MET:HE1	1:P:101:ALA:HB1	1.79	0.65
1:P:218:LEU:CD2	1:P:222:ILE:HG12	2.28	0.65
1:P:466:GLY:HA2	1:P:484:ASN:HD21	1.61	0.65
1:P:530:MET:CG	4:1:354:GLN:CG	2.72	0.65
1:P:538:GLU:HA	4:1:349:LEU:HB3	1.78	0.65
1:P:709:LYS:O	1:P:768:MLY:HH13	1.96	0.65
2:Q:146:GLY:O	2:Q:147:ASN:HB2	1.96	0.65
1:A:133:PRO:O	1:A:136:ASN:HB2	1.98	0.64
1:A:479:CYS:HB3	1:A:653:PHE:CE2	2.32	0.64
1:A:642:LYS:HA	4:8:21:PHE:O	1.96	0.64
1:D:217:THR:HB	1:D:220:ASP:OD2	1.97	0.64
1:D:538:GLU:HA	4:9:349:LEU:HB3	1.78	0.64
2:E:140:PHE:HB3	2:E:144:VAL:CG1	2.28	0.64
1:G:822:SER:O	1:G:825:ASN:HB2	1.97	0.64
1:J:339:ASP:OD1	1:J:348:MLY:HH13	1.95	0.64
1:J:636:LYS:O	1:J:637:LYS:CB	2.45	0.64
1:J:642:LYS:HA	4:W:21:PHE:O	1.96	0.64
1:J:665:ARG:C	1:J:667:THR:H	2.05	0.64
2:K:141:PRO:O	2:K:145:ALA:HB2	1.96	0.64
1:M:161:ASN:O	1:M:165:PHE:HB2	1.96	0.64
1:P:217:THR:HB	1:P:220:ASP:OD2	1.98	0.64
1:P:278:GLN:CG	1:P:317:GLU:HB2	2.27	0.64
1:P:636:LYS:O	1:P:637:LYS:CB	2.45	0.64
1:A:505:MLY:HD2	1:A:741:LYS:HZ3	1.63	0.64
1:G:202:SER:CA	1:G:207:LYS:HE3	2.28	0.64
1:G:642:LYS:HA	4:V:21:PHE:O	1.97	0.64
1:G:725:ARG:NE	1:G:737:PHE:HE1	1.95	0.64
1:J:322:VAL:HB	1:J:325:ILE:CD1	2.26	0.64
1:J:480:ILE:HG22	1:J:481:ASN:N	2.11	0.64
1:J:800:ARG:HH22	3:L:40:ASN:HD21	1.34	0.64
1:M:296:MLY:HH11	1:M:348:MLY:HH21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:817:GLN:HE21	2:N:127:ARG:HB2	1.59	0.64
2:N:140:PHE:O	2:N:141:PRO:C	2.33	0.64
1:P:541:MET:O	4:1:143:TYR:OH	2.13	0.64
1:A:725:ARG:NE	1:A:737:PHE:HE1	1.95	0.64
1:D:541:MET:O	4:9:143:TYR:OH	2.14	0.64
1:D:795:ARG:CD	3:F:43:ASN:CG	2.68	0.64
1:G:530:MET:CA	4:V:354:GLN:CB	2.75	0.64
1:G:612:GLN:HE22	1:G:627:GLY:N	1.94	0.64
1:G:636:LYS:O	1:G:637:LYS:CB	2.45	0.64
1:G:795:ARG:CB	3:I:35:ARG:NH2	2.57	0.64
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.64
1:M:144:ARG:NH1	1:M:160:ASP:OD1	2.29	0.64
1:M:795:ARG:NE	3:O:116:GLU:CD	2.55	0.64
2:N:140:PHE:HB3	2:N:144:VAL:CG1	2.28	0.64
1:P:665:ARG:C	1:P:667:THR:H	2.05	0.64
1:P:732:ILE:HG23	1:P:747:LEU:CB	1.85	0.64
1:P:795:ARG:HB3	3:R:35:ARG:NH1	2.11	0.64
1:P:836:PHE:CE1	2:Q:159:HIS:HA	2.32	0.64
3:R:45:GLU:O	3:R:49:ILE:HG13	1.96	0.64
4:3:148:THR:HG21	4:5:45:VAL:CG2	2.27	0.64
1:A:161:ASN:O	1:A:165:PHE:HB2	1.96	0.64
1:A:202:SER:CA	1:A:207:LYS:HE3	2.27	0.64
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	0.64
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.64
1:A:752:ASP:OD2	1:A:782:MLY:CG	2.46	0.64
1:D:466:GLY:HA2	1:D:484:ASN:ND2	2.12	0.64
1:D:479:CYS:HB3	1:D:653:PHE:CE2	2.32	0.64
1:D:642:LYS:HA	4:9:21:PHE:O	1.96	0.64
1:D:799:MET:SD	3:F:32:ASP:CG	2.80	0.64
1:G:217:THR:O	1:G:221:GLN:HG2	1.95	0.64
1:G:479:CYS:HB3	1:G:653:PHE:CE2	2.33	0.64
2:H:140:PHE:HB3	2:H:144:VAL:CG1	2.28	0.64
1:J:218:LEU:CD2	1:J:222:ILE:HG12	2.28	0.64
1:J:541:MET:HG2	4:W:345:ILE:O	1.98	0.64
1:M:691:VAL:O	1:M:695:LEU:HD13	1.97	0.64
1:P:786:ILE:C	1:P:787:ILE:C	2.66	0.64
4:X:291:LYS:HG3	4:Z:243:PRO:C	2.22	0.64
1:A:296:MLY:HH11	1:A:348:MLY:HH21	1.78	0.64
1:D:507:GLY:HA2	1:D:762:HIS:CE1	2.32	0.64
1:D:806:MET:O	1:D:809:ARG:HB2	1.98	0.64
1:J:530:MET:CG	4:W:354:GLN:CG	2.72	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:724:TYR:HB3	1:P:727:LEU:HD12	1.80	0.64
4:1:247:VAL:N	4:Y:324:THR:HG21	2.11	0.64
4:2:202:THR:OG1	4:Z:287:ILE:CG2	2.42	0.64
1:D:466:GLY:HA2	1:D:484:ASN:HD21	1.61	0.64
1:D:612:GLN:HE22	1:D:627:GLY:N	1.94	0.64
1:G:133:PRO:O	1:G:136:ASN:HB2	1.98	0.64
1:G:466:GLY:HA2	1:G:484:ASN:ND2	2.12	0.64
1:G:541:MET:SD	4:V:346:LEU:O	2.49	0.64
1:G:732:ILE:HG21	1:G:747:LEU:HD11	0.72	0.64
2:H:144:VAL:HA	2:H:153:ILE:HD11	1.80	0.64
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.64
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.74	0.64
1:M:724:TYR:HB3	1:M:727:LEU:HD12	1.80	0.64
1:M:783:LEU:HD12	1:M:783:LEU:N	2.13	0.64
1:P:133:PRO:O	1:P:136:ASN:HB2	1.98	0.64
1:P:541:MET:HG2	4:1:345:ILE:O	1.98	0.64
1:P:822:SER:O	1:P:825:ASN:HB2	1.97	0.64
4:2:287:ILE:HG21	4:4:204:ALA:N	2.11	0.64
1:A:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.64
1:A:217:THR:HB	1:A:220:ASP:OD2	1.97	0.64
1:A:466:GLY:HA2	1:A:484:ASN:ND2	2.12	0.64
1:A:505:MLY:HB3	1:A:762:HIS:H	1.63	0.64
1:D:712:PRO:CB	1:D:771:LEU:CB	2.75	0.64
1:G:49:MLY:HH23	1:G:80:MET:HE3	1.80	0.64
1:G:217:THR:HB	1:G:220:ASP:OD2	1.97	0.64
1:G:754:ASP:O	1:G:776:GLU:OE1	2.16	0.64
2:H:140:PHE:O	2:H:141:PRO:C	2.33	0.64
1:J:144:ARG:NH1	1:J:160:ASP:OD1	2.29	0.64
1:J:819:ASN:CG	2:K:92:ASP:HB3	2.16	0.64
1:J:829:TRP:CE2	2:K:87:LYS:CE	2.77	0.64
1:M:49:MLY:HH23	1:M:80:MET:HE3	1.80	0.64
1:M:541:MET:HG2	4:Z:345:ILE:O	1.98	0.64
1:P:612:GLN:HE22	1:P:627:GLY:N	1.95	0.64
1:P:642:LYS:CA	4:1:21:PHE:O	2.45	0.64
1:P:783:LEU:HD12	1:P:783:LEU:N	2.13	0.64
1:P:834:LEU:HD22	2:Q:34:ILE:CD1	2.27	0.64
1:A:538:GLU:HA	4:8:349:LEU:HB3	1.78	0.64
1:A:636:LYS:O	1:A:637:LYS:CB	2.45	0.64
1:A:665:ARG:C	1:A:667:THR:H	2.05	0.64
1:A:822:SER:O	1:A:825:ASN:HB2	1.97	0.64
1:D:642:LYS:CA	4:9:21:PHE:O	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:146:GLY:O	2:E:147:ASN:HB2	1.96	0.64
1:G:296:MLY:HH11	1:G:348:MLY:HH21	1.79	0.64
1:G:553:MLY:O	4:X:46:GLY:CA	2.45	0.64
1:J:642:LYS:CA	4:W:21:PHE:O	2.45	0.64
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.64
2:K:140:PHE:HB3	2:K:144:VAL:CG1	2.28	0.64
1:M:479:CYS:HB3	1:M:653:PHE:CE2	2.33	0.64
1:M:642:LYS:CA	4:Z:21:PHE:O	2.45	0.64
1:M:815:CYS:SG	2:N:92:ASP:CG	2.81	0.64
1:M:821:ARG:HH21	2:N:127:ARG:HG2	1.52	0.64
1:P:795:ARG:HA	3:R:118:MET:CE	2.28	0.64
2:Q:117:LEU:CG	2:Q:147:ASN:CB	2.76	0.64
1:D:406:VAL:HG12	1:D:407:GLY:N	2.13	0.64
1:D:712:PRO:CB	1:D:771:LEU:HD22	2.18	0.64
1:D:724:TYR:HB3	1:D:727:LEU:HD12	1.80	0.64
1:G:503:TYR:CZ	1:G:711:PHE:HE2	2.14	0.64
1:G:724:TYR:HB3	1:G:727:LEU:HD12	1.80	0.64
1:J:541:MET:CA	4:W:143:TYR:OH	2.46	0.64
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	0.64
1:M:218:LEU:CD2	1:M:222:ILE:HG12	2.28	0.64
2:N:146:GLY:O	2:N:147:ASN:HB2	1.96	0.64
1:P:127:ASN:HD22	1:P:128:PRO:CD	2.11	0.64
4:X:190:MET:SD	4:X:209:VAL:HG11	2.38	0.64
4:X:287:ILE:CG1	4:Z:201:VAL:CB	2.75	0.64
1:D:133:PRO:O	1:D:136:ASN:HB2	1.98	0.64
1:D:218:LEU:CD2	1:D:222:ILE:HG12	2.28	0.64
1:D:818:TYR:CG	2:E:90:GLY:CA	2.58	0.64
1:G:218:LEU:CD2	1:G:222:ILE:HG12	2.28	0.64
1:G:557:GLU:HB2	4:X:47:MET:N	2.11	0.64
2:H:144:VAL:HG12	2:H:153:ILE:HD11	1.75	0.64
2:H:146:GLY:O	2:H:147:ASN:CB	2.46	0.64
1:J:757:GLN:NE2	1:J:777:GLU:H	1.89	0.64
1:J:806:MET:O	1:J:809:ARG:HB2	1.98	0.64
1:M:406:VAL:HG12	1:M:407:GLY:N	2.13	0.64
1:M:636:LYS:N	4:Z:334:GLU:OE1	2.31	0.64
1:M:797:PHE:HZ	3:O:146:ILE:HD11	1.47	0.64
1:P:541:MET:CA	4:1:143:TYR:OH	2.46	0.64
1:P:723:ARG:HD3	1:P:776:GLU:OE2	1.98	0.64
1:A:49:MLY:HH23	1:A:80:MET:HE3	1.80	0.63
1:A:97:LEU:HD23	1:A:712:PRO:CA	2.28	0.63
1:A:577:ALA:O	1:A:578:HIS:CD2	2.52	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:541:MET:HG2	4:9:345:ILE:O	1.98	0.63
1:D:725:ARG:NE	1:D:737:PHE:HE1	1.95	0.63
1:D:726:VAL:HG11	1:D:785:GLU:CB	1.94	0.63
1:G:642:LYS:CD	4:V:340:TRP:CZ3	2.80	0.63
1:G:725:ARG:NE	1:G:737:PHE:CE1	2.66	0.63
1:J:537:GLU:HB3	1:J:648:THR:HB	1.80	0.63
1:J:724:TYR:HB3	1:J:727:LEU:HD12	1.80	0.63
1:M:543:PRO:HG2	4:Z:143:TYR:O	1.98	0.63
1:M:725:ARG:NE	1:M:737:PHE:CE1	2.67	0.63
4:6:190:MET:SD	4:6:209:VAL:HG11	2.38	0.63
4:Z:190:MET:SD	4:Z:209:VAL:HG11	2.38	0.63
1:A:806:MET:O	1:A:809:ARG:HB2	1.98	0.63
1:D:202:SER:CA	1:D:207:LYS:HE3	2.27	0.63
1:D:783:LEU:HD12	1:D:783:LEU:N	2.13	0.63
1:D:800:ARG:HB3	3:F:149:VAL:HG22	1.79	0.63
1:G:127:ASN:HD22	1:G:128:PRO:CD	2.11	0.63
1:J:83:PRO:O	1:J:723:ARG:NH2	2.30	0.63
1:J:829:TRP:CZ2	2:K:83:MET:CE	2.65	0.63
2:K:146:GLY:O	2:K:147:ASN:CB	2.46	0.63
1:M:544:LYS:HB2	4:Z:147:ARG:HA	1.80	0.63
1:P:530:MET:HA	4:1:354:GLN:CB	2.28	0.63
1:P:577:ALA:O	1:P:578:HIS:CD2	2.51	0.63
1:P:820:VAL:HG11	2:Q:136:MET:HE1	0.74	0.63
2:Q:132:GLU:O	2:Q:136:MET:HG2	1.99	0.63
2:Q:140:PHE:HB3	2:Q:144:VAL:CG1	2.28	0.63
4:3:287:ILE:CB	4:5:204:ALA:H	2.11	0.63
4:4:190:MET:SD	4:4:209:VAL:HG11	2.39	0.63
4:7:190:MET:SD	4:7:209:VAL:HG11	2.38	0.63
1:A:783:LEU:HD12	1:A:783:LEU:N	2.13	0.63
1:D:577:ALA:O	1:D:578:HIS:CD2	2.51	0.63
1:G:107:MLY:HB3	1:G:686:MET:CE	2.26	0.63
1:G:577:ALA:O	1:G:578:HIS:CD2	2.52	0.63
1:J:217:THR:HB	1:J:220:ASP:OD2	1.97	0.63
1:J:822:SER:O	1:J:825:ASN:HB2	1.97	0.63
1:J:831:TRP:CZ2	2:K:47:LEU:HD22	2.33	0.63
1:M:480:ILE:HG22	1:M:481:ASN:N	2.12	0.63
1:M:537:GLU:HB3	1:M:648:THR:HB	1.80	0.63
1:P:537:GLU:HB3	1:P:648:THR:HB	1.80	0.63
4:1:287:ILE:HG22	4:3:203:THR:HG22	1.72	0.63
4:2:257:CYS:HB3	4:2:258:PRO:HD3	1.81	0.63
1:D:642:LYS:CD	4:9:24:ASP:O	2.43	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:TYR:HD1	1:D:727:LEU:HD11	1.64	0.63
1:D:795:ARG:CZ	3:F:43:ASN:OD1	2.42	0.63
1:G:537:GLU:HB3	1:G:648:THR:HB	1.81	0.63
1:G:724:TYR:HD1	1:G:727:LEU:HD11	1.64	0.63
1:G:771:LEU:O	1:G:774:LEU:N	2.32	0.63
1:J:94:MET:HE1	1:J:101:ALA:HB1	1.79	0.63
1:J:107:MLY:HB3	1:J:686:MET:CE	2.27	0.63
1:J:541:MET:O	4:W:143:TYR:OH	2.13	0.63
1:J:757:GLN:N	1:J:776:GLU:HB3	2.13	0.63
2:K:144:VAL:HA	2:K:153:ILE:HD11	1.80	0.63
2:K:146:GLY:O	2:K:147:ASN:HB2	1.96	0.63
1:M:94:MET:HE1	1:M:101:ALA:HB1	1.79	0.63
1:M:796:GLY:N	3:O:35:ARG:CZ	2.62	0.63
1:P:479:CYS:HB3	1:P:653:PHE:CE2	2.33	0.63
1:P:544:LYS:HB2	4:1:147:ARG:HA	1.80	0.63
1:P:725:ARG:NE	1:P:737:PHE:CE1	2.67	0.63
4:4:257:CYS:HB3	4:4:258:PRO:HD3	1.81	0.63
4:X:257:CYS:HB3	4:X:258:PRO:HD3	1.81	0.63
1:A:127:ASN:HD22	1:A:128:PRO:CD	2.11	0.63
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	0.63
1:A:410:ASN:CG	4:8:334:GLU:C	2.65	0.63
1:A:537:GLU:HB3	1:A:648:THR:HB	1.80	0.63
1:A:541:MET:HG2	4:8:345:ILE:O	1.98	0.63
1:D:202:SER:HA	1:D:207:LYS:HE3	1.72	0.63
1:D:795:ARG:NH2	3:F:116:GLU:OE1	2.30	0.63
1:G:278:GLN:CG	1:G:317:GLU:HB2	2.27	0.63
1:G:480:ILE:HG22	1:G:481:ASN:N	2.11	0.63
1:G:541:MET:HG2	4:V:345:ILE:O	1.98	0.63
2:H:132:GLU:O	2:H:136:MET:HG2	1.99	0.63
1:J:133:PRO:O	1:J:136:ASN:HB2	1.98	0.63
1:J:406:VAL:HG12	1:J:407:GLY:N	2.13	0.63
1:J:544:LYS:HB2	4:W:147:ARG:HA	1.80	0.63
1:J:831:TRP:HE1	2:K:67:MET:HB3	1.62	0.63
1:A:218:LEU:CD2	1:A:222:ILE:HG12	2.28	0.63
1:D:537:GLU:HB3	1:D:648:THR:HB	1.80	0.63
1:G:636:LYS:N	4:V:334:GLU:OE1	2.31	0.63
2:H:117:LEU:CG	2:H:147:ASN:CB	2.76	0.63
1:J:141:LEU:H	1:J:141:LEU:HD12	1.64	0.63
1:J:530:MET:HA	4:W:354:GLN:CB	2.28	0.63
1:J:612:GLN:HE22	1:J:627:GLY:N	1.95	0.63
1:J:636:LYS:N	4:W:334:GLU:OE1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:831:TRP:HH2	2:N:47:LEU:HD21	1.49	0.63
2:N:146:GLY:O	2:N:147:ASN:CB	2.46	0.63
4:2:167:GLU:OE1	4:4:44:MET:HA	1.98	0.63
4:6:257:CYS:HB3	4:6:258:PRO:HD3	1.81	0.63
4:8:190:MET:SD	4:8:209:VAL:HG11	2.38	0.63
4:W:190:MET:SD	4:W:209:VAL:HG11	2.38	0.63
4:Z:257:CYS:HB3	4:Z:258:PRO:HD3	1.81	0.63
1:A:724:TYR:HB3	1:A:727:LEU:HD12	1.80	0.63
2:E:140:PHE:O	2:E:141:PRO:C	2.33	0.63
2:E:144:VAL:HA	2:E:153:ILE:HD11	1.80	0.63
1:G:84:MLY:HB3	1:G:723:ARG:NE	2.13	0.63
1:G:639:GLY:N	4:V:344:SER:C	2.54	0.63
1:G:642:LYS:CA	4:V:21:PHE:O	2.46	0.63
1:G:784:ALA:O	1:G:788:THR:CB	2.45	0.63
1:J:28:GLN:OE1	1:J:723:ARG:CG	2.46	0.63
1:M:107:MLY:HB3	1:M:686:MET:CE	2.27	0.63
1:M:133:PRO:O	1:M:136:ASN:HB2	1.98	0.63
1:M:732:ILE:HG21	1:M:747:LEU:HD11	0.73	0.63
1:M:739:ASP:CB	1:M:742:LYS:HB3	2.12	0.63
1:P:636:LYS:N	4:1:334:GLU:OE1	2.31	0.63
4:2:287:ILE:HD13	4:4:203:THR:N	2.13	0.63
1:A:107:MLY:HB3	1:A:686:MET:CE	2.26	0.63
1:A:538:GLU:HA	4:8:349:LEU:CG	2.27	0.63
1:A:576:GLU:CG	1:A:577:ALA:N	2.44	0.63
1:A:725:ARG:NE	1:A:737:PHE:CE1	2.66	0.63
1:D:836:PHE:HD2	2:E:161:GLU:OE1	1.82	0.63
2:E:121:LEU:HA	2:E:128:PHE:CG	2.34	0.63
1:G:806:MET:O	1:G:809:ARG:HB2	1.98	0.63
1:J:640:LYS:C	4:W:23:GLY:CA	2.64	0.63
1:J:771:LEU:O	1:J:774:LEU:N	2.32	0.63
1:M:541:MET:CA	4:Z:143:TYR:OH	2.47	0.63
1:P:803:TYR:HD1	1:P:807:VAL:HG11	1.64	0.63
1:P:819:ASN:ND2	2:Q:92:ASP:CA	2.58	0.63
2:Q:144:VAL:HA	2:Q:153:ILE:HD11	1.80	0.63
4:9:190:MET:SD	4:9:209:VAL:HG11	2.39	0.63
4:V:257:CYS:HB3	4:V:258:PRO:HD3	1.81	0.63
1:A:541:MET:SD	4:8:346:LEU:O	2.48	0.63
1:A:755:HIS:HA	1:A:758:TYR:HE1	1.64	0.63
1:D:127:ASN:HD22	1:D:128:PRO:CD	2.11	0.63
2:E:132:GLU:O	2:E:136:MET:HG2	1.99	0.63
1:G:97:LEU:HD21	1:G:712:PRO:CA	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:791:GLN:NE2	3:I:115:GLY:C	2.57	0.63
1:G:796:GLY:CA	3:I:35:ARG:CZ	2.76	0.63
1:M:127:ASN:HD22	1:M:128:PRO:CD	2.11	0.63
1:M:251:ARG:HB2	1:M:264:ASP:CB	2.29	0.63
1:M:577:ALA:O	1:M:578:HIS:CD2	2.51	0.63
2:N:132:GLU:O	2:N:136:MET:HG2	1.99	0.63
1:P:49:MLY:HH23	1:P:80:MET:HE3	1.80	0.63
1:P:98:HIS:HB3	1:P:100:PRO:CD	2.25	0.63
1:P:410:ASN:CG	4:1:334:GLU:C	2.65	0.63
1:P:796:GLY:N	3:R:35:ARG:CZ	2.61	0.63
4:1:287:ILE:CB	4:3:203:THR:H	2.12	0.63
4:2:190:MET:SD	4:2:209:VAL:HG11	2.38	0.63
4:8:257:CYS:HB3	4:8:258:PRO:HD3	1.81	0.63
4:X:287:ILE:CB	4:Z:201:VAL:HG23	2.27	0.63
1:A:757:GLN:CB	1:A:771:LEU:CG	2.41	0.62
1:D:542:PHE:N	4:9:143:TYR:OH	2.32	0.62
1:G:783:LEU:N	1:G:783:LEU:HD12	2.13	0.62
1:J:302:MET:HG2	1:J:303:LEU:CD1	2.29	0.62
1:J:410:ASN:CG	4:W:334:GLU:C	2.65	0.62
1:J:577:ALA:O	1:J:578:HIS:CD2	2.51	0.62
1:J:724:TYR:HD1	1:J:727:LEU:HD11	1.64	0.62
1:M:546:THR:N	4:2:46:GLY:N	2.22	0.62
1:M:642:LYS:CD	4:Z:340:TRP:CZ3	2.79	0.62
1:M:771:LEU:O	1:M:774:LEU:N	2.32	0.62
1:P:771:LEU:O	1:P:774:LEU:N	2.32	0.62
1:P:818:TYR:HB3	2:Q:90:GLY:CA	2.27	0.62
4:X:324:THR:O	4:Z:245:GLY:HA3	1.98	0.62
4:X:324:THR:OG1	4:Z:246:GLN:HA	1.99	0.62
1:A:411:GLU:N	4:8:333:PRO:HB2	2.11	0.62
1:A:636:LYS:N	4:8:334:GLU:OE1	2.31	0.62
1:D:302:MET:HG2	1:D:303:LEU:CD1	2.30	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:G:819:ASN:N	2:H:90:GLY:O	2.28	0.62
1:J:479:CYS:HB3	1:J:653:PHE:CE2	2.33	0.62
1:J:542:PHE:N	4:W:143:TYR:OH	2.33	0.62
1:J:725:ARG:NE	1:J:737:PHE:CE1	2.67	0.62
1:M:786:ILE:CG2	1:M:787:ILE:HB	2.16	0.62
1:P:202:SER:CA	1:P:207:LYS:HE3	2.27	0.62
1:P:302:MET:HG2	1:P:303:LEU:CD1	2.30	0.62
1:P:506:GLU:OE2	1:P:764:MLY:CG	2.31	0.62
1:P:640:LYS:C	4:1:23:GLY:CA	2.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:190:MET:SD	4:1:209:VAL:HG11	2.38	0.62
4:5:190:MET:SD	4:5:209:VAL:HG11	2.38	0.62
4:7:257:CYS:HB3	4:7:258:PRO:HD3	1.81	0.62
4:X:286:ASP:OD1	4:Z:202:THR:CA	2.44	0.62
1:A:278:GLN:CG	1:A:317:GLU:HB2	2.27	0.62
1:A:543:PRO:HG2	4:8:143:TYR:O	1.98	0.62
1:D:506:GLU:HG3	1:D:764:MLY:HE3	1.80	0.62
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	0.62
1:D:541:MET:CA	4:9:143:TYR:OH	2.47	0.62
1:D:542:PHE:CZ	1:D:553:MLY:HH11	2.34	0.62
1:D:580:SER:HA	1:D:588:VAL:O	2.00	0.62
1:D:725:ARG:NE	1:D:737:PHE:CE1	2.67	0.62
1:D:725:ARG:HA	1:D:782:MLY:CH2	2.29	0.62
1:D:727:LEU:CA	1:D:782:MLY:HH13	2.25	0.62
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.62
2:K:121:LEU:HA	2:K:128:PHE:CG	2.34	0.62
1:M:578:HIS:CB	1:M:592:ILE:HD12	2.30	0.62
1:M:831:TRP:HZ3	2:N:34:ILE:HG21	1.62	0.62
1:M:834:LEU:HD22	2:N:34:ILE:CD1	2.29	0.62
3:O:24:LYS:HB3	3:O:63:ILE:H	1.64	0.62
4:5:257:CYS:HB3	4:5:258:PRO:HD3	1.81	0.62
4:V:190:MET:SD	4:V:209:VAL:HG11	2.38	0.62
1:D:771:LEU:O	1:D:774:LEU:N	2.32	0.62
2:E:111:SER:OG	2:E:148:VAL:CG1	2.48	0.62
2:E:117:LEU:CG	2:E:147:ASN:CB	2.76	0.62
1:G:99:GLU:OE2	1:G:696:ARG:NH2	2.30	0.62
1:G:538:GLU:HA	4:V:349:LEU:HB3	1.79	0.62
1:G:578:HIS:CB	1:G:592:ILE:HD12	2.30	0.62
1:G:580:SER:HA	1:G:588:VAL:O	2.00	0.62
1:J:49:MLY:HH23	1:J:80:MET:HE3	1.80	0.62
2:K:111:SER:OG	2:K:148:VAL:CG1	2.48	0.62
2:K:132:GLU:O	2:K:136:MET:HG2	1.99	0.62
3:L:24:LYS:HB3	3:L:63:ILE:H	1.64	0.62
1:M:795:ARG:HH21	3:O:116:GLU:HA	1.63	0.62
1:M:804:ARG:HA	1:M:807:VAL:CG1	2.26	0.62
1:M:830:PRO:HG3	2:N:67:MET:HE2	1.80	0.62
1:P:107:MLY:HB3	1:P:686:MET:CE	2.27	0.62
1:P:530:MET:HE1	4:1:355:MET:SD	2.40	0.62
1:P:737:PHE:HZ	3:R:89:GLU:OE1	1.83	0.62
2:Q:121:LEU:HA	2:Q:128:PHE:CG	2.34	0.62
4:9:257:CYS:HB3	4:9:258:PRO:HD3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:LEU:H	1:A:141:LEU:HD12	1.64	0.62
1:A:530:MET:HE1	4:8:355:MET:SD	2.39	0.62
1:A:541:MET:CA	4:8:143:TYR:OH	2.47	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	2.00	0.62
1:A:642:LYS:CA	4:8:21:PHE:O	2.46	0.62
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.62
1:D:274:ARG:HB2	1:D:285:TYR:CE2	2.34	0.62
1:D:636:LYS:N	4:9:334:GLU:OE1	2.31	0.62
2:E:146:GLY:O	2:E:147:ASN:CB	2.46	0.62
1:G:411:GLU:N	4:V:333:PRO:HB2	2.11	0.62
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	0.62
1:J:154:HIS:CE1	1:J:156:PHE:CD2	2.88	0.62
1:M:141:LEU:H	1:M:141:LEU:HD12	1.64	0.62
1:M:730:SER:CA	3:O:89:GLU:CD	2.69	0.62
1:M:813:ILE:O	1:M:817:GLN:N	2.30	0.62
2:N:111:SER:OG	2:N:148:VAL:CG1	2.48	0.62
1:P:829:TRP:HZ3	2:Q:84:PHE:CD1	2.06	0.62
2:Q:146:GLY:O	2:Q:147:ASN:CB	2.46	0.62
4:W:361:GLU:HB3	4:W:369:ILE:HG12	1.82	0.62
1:A:641:LYS:CE	1:A:647:GLN:CB	2.75	0.62
1:A:724:TYR:HD1	1:A:727:LEU:HD11	1.64	0.62
1:D:543:PRO:HG2	4:9:143:TYR:O	1.98	0.62
1:D:544:LYS:HB2	4:9:147:ARG:HA	1.80	0.62
1:G:251:ARG:HB2	1:G:264:ASP:CB	2.29	0.62
1:G:278:GLN:HG3	1:G:318:GLY:N	2.14	0.62
1:G:406:VAL:HG12	1:G:407:GLY:N	2.13	0.62
1:G:541:MET:CA	4:V:143:TYR:OH	2.47	0.62
1:J:278:GLN:HG3	1:J:318:GLY:N	2.15	0.62
1:J:530:MET:HE1	4:W:355:MET:SD	2.40	0.62
1:J:756:THR:HG22	1:J:776:GLU:HA	1.73	0.62
1:M:530:MET:CG	4:Z:354:GLN:CG	2.72	0.62
1:P:803:TYR:CE2	3:R:17:PHE:CE2	2.87	0.62
1:P:804:ARG:C	1:P:807:VAL:HB	2.23	0.62
4:3:257:CYS:HB3	4:3:258:PRO:HD3	1.81	0.62
4:7:361:GLU:HB3	4:7:369:ILE:HG12	1.82	0.62
4:9:361:GLU:HB3	4:9:369:ILE:HG12	1.82	0.62
4:X:361:GLU:HB3	4:X:369:ILE:HG12	1.82	0.62
1:A:732:ILE:HG22	1:A:747:LEU:CD1	1.55	0.62
1:D:49:MLY:HH23	1:D:80:MET:HE3	1.80	0.62
1:D:831:TRP:NE1	2:E:51:PHE:CE2	2.66	0.62
1:G:752:ASP:OD1	1:G:783:LEU:CA	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:798:LEU:CD2	3:I:118:MET:HB3	2.29	0.62
1:M:278:GLN:HG3	1:M:318:GLY:N	2.15	0.62
1:M:556:ASP:N	4:2:49:GLN:CB	2.57	0.62
1:M:817:GLN:NE2	2:N:128:PHE:CD1	2.60	0.62
1:P:161:ASN:HA	1:P:164:GLN:HE21	1.64	0.62
4:Y:361:GLU:HB3	4:Y:369:ILE:HG12	1.82	0.62
1:A:505:MLY:CD	1:A:741:LYS:NZ	2.63	0.62
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.30	0.62
1:A:771:LEU:O	1:A:774:LEU:N	2.32	0.62
1:D:98:HIS:HB3	1:D:100:PRO:CD	2.25	0.62
1:D:251:ARG:HB2	1:D:264:ASP:CB	2.29	0.62
1:J:98:HIS:HB3	1:J:100:PRO:CD	2.26	0.62
1:J:274:ARG:HB2	1:J:285:TYR:CE2	2.34	0.62
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.62
1:J:800:ARG:HB3	3:L:149:VAL:CG1	2.30	0.62
1:M:274:ARG:HB2	1:M:285:TYR:CE2	2.34	0.62
1:M:506:GLU:O	1:M:762:HIS:CD2	2.52	0.62
1:P:278:GLN:HG3	1:P:318:GLY:N	2.15	0.62
1:P:543:PRO:HG2	4:1:143:TYR:O	1.98	0.62
1:P:546:THR:HG21	4:3:47:MET:HA	1.79	0.62
1:P:578:HIS:CB	1:P:592:ILE:HD12	2.30	0.62
3:R:24:LYS:HB3	3:R:63:ILE:H	1.64	0.62
3:R:50:LEU:O	3:R:53:PRO:HD2	2.00	0.62
4:1:201:VAL:HG23	4:Y:287:ILE:HG12	1.80	0.62
4:8:361:GLU:HB3	4:8:369:ILE:HG12	1.82	0.62
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	0.62
4:Y:257:CYS:HB3	4:Y:258:PRO:HD3	1.81	0.62
1:A:551:MLY:C	4:V:46:GLY:O	2.47	0.62
1:D:530:MET:HE1	4:9:355:MET:SD	2.39	0.62
1:D:797:PHE:CG	3:F:146:ILE:CG2	2.70	0.62
1:G:542:PHE:CZ	1:G:553:MLY:HH11	2.34	0.62
1:G:797:PHE:HE2	3:I:126:LEU:CD1	2.13	0.62
1:J:93:MET:SD	1:J:716:LEU:HB2	2.39	0.62
1:J:202:SER:CA	1:J:207:LYS:HE3	2.27	0.62
1:J:542:PHE:CZ	1:J:553:MLY:HH11	2.34	0.62
1:M:797:PHE:CD1	3:O:146:ILE:CG2	2.66	0.62
1:P:508:ILE:CG2	1:P:759:ALA:HB1	2.28	0.62
1:P:580:SER:HA	1:P:588:VAL:O	2.00	0.62
2:Q:111:SER:OG	2:Q:148:VAL:CG1	2.48	0.62
4:2:203:THR:N	4:Z:287:ILE:CD1	2.63	0.62
4:3:361:GLU:HB3	4:3:369:ILE:HG12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:6:361:GLU:HB3	4:6:369:ILE:HG12	1.82	0.62
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.62
1:A:580:SER:HA	1:A:588:VAL:O	2.00	0.62
1:D:173:GLN:C	1:D:667:THR:HG23	2.25	0.62
1:D:579:PHE:CE1	1:D:581:LEU:HD13	2.35	0.62
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.64	0.62
1:G:173:GLN:C	1:G:667:THR:HG23	2.25	0.62
1:G:838:ILE:CG1	2:H:54:MET:HE3	2.25	0.62
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.62
3:I:24:LYS:HB3	3:I:63:ILE:H	1.64	0.62
1:J:543:PRO:HG2	4:W:143:TYR:O	1.98	0.62
1:J:579:PHE:CE1	1:J:581:LEU:HD13	2.35	0.62
3:L:50:LEU:O	3:L:53:PRO:HD2	2.00	0.62
1:M:546:THR:OG1	4:2:45:VAL:O	2.13	0.62
1:P:173:GLN:C	1:P:667:THR:HG23	2.25	0.62
1:P:251:ARG:HB2	1:P:264:ASP:CB	2.29	0.62
1:P:797:PHE:HZ	3:R:146:ILE:HD13	1.26	0.62
3:R:49:ILE:HA	3:R:52:ASN:ND2	2.06	0.62
4:3:190:MET:SD	4:3:209:VAL:HG11	2.38	0.62
4:Y:190:MET:SD	4:Y:209:VAL:HG11	2.39	0.62
1:A:278:GLN:HG3	1:A:318:GLY:N	2.15	0.61
1:A:302:MET:HG2	1:A:303:LEU:CD1	2.30	0.61
1:A:530:MET:HA	4:8:354:GLN:CB	2.29	0.61
1:A:542:PHE:CZ	1:A:553:MLY:HH11	2.34	0.61
1:A:599:ASN:CG	1:A:649:VAL:HB	2.25	0.61
1:D:797:PHE:CD1	3:F:146:ILE:CA	2.83	0.61
1:D:818:TYR:HB2	2:E:90:GLY:HA3	0.62	0.61
2:E:114:LYS:HG3	2:E:146:GLY:HA2	1.82	0.61
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	0.61
1:J:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:M:99:GLU:OE2	1:M:696:ARG:NH2	2.30	0.61
1:M:724:TYR:CZ	1:M:775:LEU:CB	2.71	0.61
2:N:144:VAL:HA	2:N:153:ILE:HD11	1.80	0.61
3:O:52:ASN:HB2	3:O:53:PRO:CD	2.28	0.61
1:P:406:VAL:HG12	1:P:407:GLY:N	2.13	0.61
1:P:542:PHE:N	4:1:143:TYR:OH	2.33	0.61
1:P:542:PHE:CZ	1:P:553:MLY:HH11	2.34	0.61
1:P:724:TYR:HD1	1:P:727:LEU:HD11	1.64	0.61
1:P:735:GLY:O	1:P:743:ALA:HA	1.94	0.61
1:P:783:LEU:O	1:P:786:ILE:HG13	2.00	0.61
3:R:52:ASN:N	3:R:53:PRO:HD2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:288:ASP:N	4:5:203:THR:CG2	2.56	0.61
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.61
1:A:508:ILE:HD13	1:A:759:ALA:HB3	1.74	0.61
1:D:520:ALA:O	1:D:524:GLU:HG2	2.00	0.61
1:D:538:GLU:HA	4:9:349:LEU:CG	2.28	0.61
1:D:578:HIS:CB	1:D:592:ILE:HD12	2.30	0.61
1:D:599:ASN:CG	1:D:649:VAL:HB	2.25	0.61
3:I:50:LEU:O	3:I:53:PRO:HD2	2.00	0.61
1:M:542:PHE:CZ	1:M:553:MLY:HH11	2.34	0.61
1:M:542:PHE:CB	4:Z:143:TYR:HE1	2.13	0.61
1:M:795:ARG:CB	3:O:35:ARG:NH1	2.61	0.61
1:M:803:TYR:CD1	1:M:807:VAL:CG1	2.81	0.61
4:4:361:GLU:HB3	4:4:369:ILE:HG12	1.82	0.61
1:A:520:ALA:O	1:A:524:GLU:HG2	2.00	0.61
1:D:278:GLN:HG3	1:D:318:GLY:N	2.15	0.61
1:D:643:GLY:O	1:D:644:SER:CB	2.49	0.61
1:D:818:TYR:CD2	2:E:90:GLY:HA3	2.35	0.61
1:D:831:TRP:CZ2	2:E:47:LEU:HD23	2.35	0.61
1:G:274:ARG:HB2	1:G:285:TYR:CE2	2.34	0.61
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.61
2:H:112:ILE:C	2:H:147:ASN:O	2.43	0.61
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.61
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.61
1:J:817:GLN:CB	2:K:127:ARG:CD	2.73	0.61
3:O:52:ASN:N	3:O:53:PRO:HD2	2.15	0.61
1:P:141:LEU:HD12	1:P:141:LEU:H	1.64	0.61
1:P:623:PHE:CG	1:P:623:PHE:HA	2.35	0.61
4:1:257:CYS:HB3	4:1:258:PRO:HD3	1.81	0.61
4:W:257:CYS:HB3	4:W:258:PRO:HD3	1.81	0.61
1:D:107:MLY:HB3	1:D:686:MET:CE	2.27	0.61
1:D:278:GLN:CG	1:D:317:GLU:HB2	2.27	0.61
3:F:50:LEU:O	3:F:53:PRO:HD2	2.00	0.61
1:G:141:LEU:H	1:G:141:LEU:HD12	1.64	0.61
1:G:302:MET:HG2	1:G:303:LEU:CD1	2.30	0.61
1:J:251:ARG:HB2	1:J:264:ASP:CB	2.29	0.61
1:M:524:GLU:O	1:M:528:MLY:HB3	2.01	0.61
1:M:643:GLY:O	1:M:644:SER:CB	2.49	0.61
1:M:724:TYR:HD1	1:M:727:LEU:HD11	1.64	0.61
2:N:114:LYS:HG3	2:N:146:GLY:HA2	1.82	0.61
1:P:95:THR:O	1:P:770:GLY:N	2.32	0.61
1:P:578:HIS:CD2	1:P:591:ASN:HA	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:723:ARG:HH21	1:P:779:ARG:HH11	1.41	0.61
1:P:795:ARG:HA	3:R:118:MET:HE1	1.82	0.61
1:A:161:ASN:HA	1:A:164:GLN:HE21	1.64	0.61
1:A:538:GLU:CG	4:8:351:THR:C	2.74	0.61
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.61
1:A:578:HIS:CD2	1:A:591:ASN:HA	2.31	0.61
1:A:686:MET:HG3	1:A:691:VAL:HG21	1.83	0.61
1:D:553:MLY:O	4:W:48:GLY:HA2	2.00	0.61
1:D:831:TRP:CZ3	2:E:34:ILE:CG2	2.82	0.61
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	0.61
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	0.61
1:G:686:MET:HG3	1:G:691:VAL:HG21	1.83	0.61
1:J:161:ASN:HA	1:J:164:GLN:HE21	1.64	0.61
1:M:161:ASN:HA	1:M:164:GLN:HE21	1.64	0.61
1:M:411:GLU:N	4:Z:333:PRO:HB2	2.11	0.61
1:M:520:ALA:O	1:M:524:GLU:HG2	2.00	0.61
1:M:579:PHE:CE1	1:M:581:LEU:HD13	2.35	0.61
1:M:580:SER:HA	1:M:588:VAL:O	2.00	0.61
3:O:63:ILE:HG22	3:O:64:THR:O	2.01	0.61
1:P:520:ALA:O	1:P:524:GLU:HG2	2.00	0.61
1:P:786:ILE:O	1:P:790:THR:N	2.33	0.61
2:Q:112:ILE:C	2:Q:147:ASN:O	2.42	0.61
1:A:149:GLN:CA	1:A:719:ASP:OD1	2.48	0.61
1:A:542:PHE:CB	4:8:143:TYR:HE1	2.12	0.61
1:D:530:MET:HA	4:9:354:GLN:CB	2.29	0.61
1:D:732:ILE:HD13	1:D:782:MLY:HH21	1.80	0.61
3:F:24:LYS:HB3	3:F:63:ILE:H	1.64	0.61
1:G:530:MET:HE1	4:V:355:MET:SD	2.41	0.61
1:G:643:GLY:O	1:G:644:SER:CB	2.48	0.61
1:J:81:ASN:OD1	1:J:96:HIS:HB2	2.00	0.61
1:J:84:MLY:NZ	1:J:724:TYR:HD2	1.94	0.61
1:J:800:ARG:CD	3:L:149:VAL:C	2.74	0.61
3:L:52:ASN:N	3:L:53:PRO:HD2	2.16	0.61
1:M:154:HIS:CE1	1:M:156:PHE:CD2	2.88	0.61
1:M:278:GLN:CG	1:M:317:GLU:HB2	2.27	0.61
1:M:302:MET:HG2	1:M:303:LEU:CD1	2.30	0.61
1:M:542:PHE:N	4:Z:143:TYR:OH	2.33	0.61
1:M:642:LYS:CD	4:Z:24:ASP:O	2.43	0.61
2:N:121:LEU:HA	2:N:128:PHE:CG	2.35	0.61
1:P:274:ARG:HB2	1:P:285:TYR:CE2	2.34	0.61
1:P:524:GLU:O	1:P:528:MLY:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:579:PHE:CE1	1:P:581:LEU:HD13	2.35	0.61
1:P:829:TRP:HH2	2:Q:84:PHE:CD1	2.15	0.61
4:5:361:GLU:HB3	4:5:369:ILE:HG12	1.82	0.61
4:V:190:MET:HE1	4:V:206:ARG:HA	1.83	0.61
1:A:210:GLN:O	1:A:211:SER:OG	2.15	0.61
1:D:81:ASN:OD1	1:D:96:HIS:HB2	2.00	0.61
1:D:154:HIS:CE1	1:D:156:PHE:CD2	2.88	0.61
1:D:161:ASN:HA	1:D:164:GLN:HE21	1.64	0.61
1:D:732:ILE:HG22	1:D:747:LEU:CD1	1.55	0.61
1:G:542:PHE:CB	4:V:143:TYR:HE1	2.13	0.61
1:G:789:ALA:HB2	3:I:81:GLN:OE1	2.00	0.61
1:G:795:ARG:CZ	3:I:116:GLU:HB3	2.31	0.61
1:J:93:MET:HA	1:J:714:ARG:H	1.65	0.61
1:J:755:HIS:HA	1:J:758:TYR:HE1	1.65	0.61
1:M:40:VAL:HG22	1:M:41:VAL:N	2.16	0.61
1:M:538:GLU:HA	4:Z:349:LEU:CG	2.28	0.61
1:M:538:GLU:CG	4:Z:351:THR:C	2.73	0.61
1:M:552:ASN:HD21	4:2:47:MET:CB	2.13	0.61
1:M:623:PHE:CG	1:M:623:PHE:HA	2.36	0.61
1:M:832:MET:SD	2:N:84:PHE:CE2	2.83	0.61
2:N:34:ILE:O	2:N:46:ASP:HB3	2.01	0.61
1:P:154:HIS:CE1	1:P:156:PHE:CD2	2.88	0.61
1:P:542:PHE:CB	4:1:143:TYR:HE1	2.13	0.61
1:P:723:ARG:NH2	1:P:779:ARG:HH12	1.93	0.61
1:P:830:PRO:CB	2:Q:67:MET:SD	2.89	0.61
4:1:190:MET:HE1	4:1:206:ARG:HA	1.83	0.61
4:2:202:THR:CB	4:Z:287:ILE:CG1	2.79	0.61
4:3:322:PRO:CB	4:5:244:ASP:HB2	2.26	0.61
4:8:190:MET:HE1	4:8:206:ARG:HA	1.83	0.61
4:9:190:MET:HE1	4:9:206:ARG:HA	1.83	0.61
4:Y:190:MET:HE1	4:Y:206:ARG:HA	1.83	0.61
1:A:173:GLN:C	1:A:667:THR:HG23	2.25	0.61
1:G:544:LYS:HB2	4:V:147:ARG:HA	1.81	0.61
1:G:819:ASN:ND2	2:H:90:GLY:O	2.34	0.61
2:H:114:LYS:HG3	2:H:146:GLY:HA2	1.82	0.61
1:M:530:MET:CG	4:Z:354:GLN:HG3	2.31	0.61
1:M:599:ASN:CG	1:M:649:VAL:HB	2.25	0.61
1:M:686:MET:HG3	1:M:691:VAL:HG21	1.83	0.61
1:P:81:ASN:OD1	1:P:96:HIS:HB2	2.00	0.61
1:P:639:GLY:N	4:1:344:SER:C	2.54	0.61
1:P:732:ILE:HG22	1:P:747:LEU:CD1	1.55	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:755:HIS:HA	1:P:758:TYR:HE1	1.64	0.61
2:Q:114:LYS:HG3	2:Q:146:GLY:HA2	1.82	0.61
4:7:190:MET:HE1	4:7:206:ARG:HA	1.83	0.61
4:W:190:MET:HE1	4:W:206:ARG:HA	1.83	0.61
1:A:81:ASN:OD1	1:A:96:HIS:HB2	2.00	0.61
1:A:579:PHE:CE1	1:A:581:LEU:HD13	2.35	0.61
1:D:524:GLU:O	1:D:528:MLY:HB3	2.01	0.61
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.61
1:D:724:TYR:CB	1:D:782:MLY:NZ	2.57	0.61
1:G:543:PRO:HG2	4:V:143:TYR:O	1.99	0.61
1:G:792:ALA:CA	3:I:42:THR:HG22	2.30	0.61
1:G:795:ARG:NE	3:I:116:GLU:CB	2.51	0.61
1:J:84:MLY:HH12	1:J:720:PHE:HD1	1.63	0.61
1:J:278:GLN:CG	1:J:317:GLU:HB2	2.27	0.61
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	0.61
1:J:818:TYR:CE1	2:K:127:ARG:NH1	2.69	0.61
1:J:834:LEU:HD12	2:K:51:PHE:HE1	1.65	0.61
2:K:34:ILE:O	2:K:46:ASP:HB3	2.01	0.61
1:P:599:ASN:CG	1:P:649:VAL:HB	2.25	0.61
4:1:361:GLU:HB3	4:1:369:ILE:HG12	1.82	0.61
4:3:190:MET:HE1	4:3:206:ARG:HA	1.83	0.61
4:6:190:MET:HE1	4:6:206:ARG:HA	1.83	0.61
1:D:726:VAL:C	1:D:785:GLU:HG2	2.26	0.61
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.61
1:D:827:MLY:HH21	2:E:139:ALA:HB3	1.83	0.61
1:G:40:VAL:HG22	1:G:41:VAL:N	2.16	0.61
1:G:95:THR:CA	1:G:713:SER:HB3	2.29	0.61
1:G:530:MET:CG	4:V:354:GLN:HG3	2.30	0.61
1:G:538:GLU:HA	4:V:349:LEU:CG	2.28	0.61
1:G:642:LYS:CD	4:V:24:ASP:O	2.43	0.61
1:G:754:ASP:O	1:G:776:GLU:CD	2.44	0.61
1:G:831:TRP:HE1	2:H:67:MET:CG	2.11	0.61
1:J:524:GLU:O	1:J:528:MLY:HB3	2.01	0.61
1:M:725:ARG:HH12	3:O:93:VAL:HG21	1.62	0.61
1:M:795:ARG:NH2	3:O:116:GLU:CD	2.44	0.61
4:3:324:THR:CG2	4:5:243:PRO:O	2.49	0.61
4:X:190:MET:HE1	4:X:206:ARG:HA	1.83	0.61
4:Z:190:MET:HE1	4:Z:206:ARG:HA	1.83	0.61
4:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.61
1:A:40:VAL:HG22	1:A:41:VAL:N	2.16	0.60
1:A:623:PHE:CG	1:A:623:PHE:HA	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:623:PHE:CG	1:D:623:PHE:HA	2.36	0.60
1:G:81:ASN:OD1	1:G:96:HIS:HB2	2.00	0.60
1:G:754:ASP:CG	1:G:779:ARG:CB	2.70	0.60
1:J:84:MLY:HH13	1:J:724:TYR:CE2	2.34	0.60
1:J:757:GLN:HA	1:J:776:GLU:CB	2.30	0.60
1:J:797:PHE:CG	3:L:146:ILE:CG2	2.68	0.60
1:J:830:PRO:CG	2:K:67:MET:HE2	2.30	0.60
1:M:649:VAL:HA	1:M:649:VAL:HG22	1.80	0.60
2:N:117:LEU:CG	2:N:147:ASN:CB	2.76	0.60
1:P:40:VAL:HG22	1:P:41:VAL:N	2.16	0.60
4:5:190:MET:HE1	4:5:206:ARG:HA	1.83	0.60
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.60
1:D:127:ASN:ND2	1:D:128:PRO:HD2	2.16	0.60
1:G:84:MLY:HH11	1:G:724:TYR:CE2	2.36	0.60
1:G:524:GLU:O	1:G:528:MLY:HB3	2.01	0.60
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.60
1:J:520:ALA:O	1:J:524:GLU:HG2	2.00	0.60
1:J:686:MET:HG3	1:J:691:VAL:HG21	1.83	0.60
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	0.60
1:M:541:MET:SD	4:Z:346:LEU:O	2.48	0.60
1:M:640:LYS:C	4:Z:23:GLY:CA	2.64	0.60
1:M:724:TYR:HE1	1:M:775:LEU:CA	2.14	0.60
1:M:821:ARG:NH2	2:N:127:ARG:CD	2.65	0.60
1:A:38:VAL:HB	1:A:52:ILE:HD11	1.84	0.60
1:A:95:THR:HB	1:A:772:LEU:HD22	1.83	0.60
1:A:542:PHE:N	4:8:143:TYR:OH	2.33	0.60
1:D:156:PHE:CD1	1:D:195:TYR:CD1	2.90	0.60
2:E:117:LEU:HD11	2:E:147:ASN:HB3	1.76	0.60
3:F:3:SER:HG	3:F:5:ALA:N	1.98	0.60
3:F:52:ASN:N	3:F:53:PRO:HD2	2.16	0.60
1:G:210:GLN:O	1:G:211:SER:OG	2.15	0.60
1:G:826:VAL:HG21	2:H:88:LEU:HD21	1.82	0.60
3:I:52:ASN:N	3:I:53:PRO:HD2	2.16	0.60
1:J:580:SER:HA	1:J:588:VAL:O	2.00	0.60
1:J:801:VAL:CG2	3:L:126:LEU:HD21	2.31	0.60
3:L:63:ILE:HG22	3:L:64:THR:O	2.01	0.60
1:M:173:GLN:C	1:M:667:THR:HG23	2.25	0.60
1:M:755:HIS:HA	1:M:758:TYR:HE1	1.64	0.60
1:M:798:LEU:CD2	3:O:118:MET:HB3	2.31	0.60
1:P:686:MET:HG3	1:P:691:VAL:HG21	1.83	0.60
1:P:837:MLY:O	1:P:840:PRO:HD2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:MET:CG	4:8:354:GLN:HG3	2.30	0.60
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.60
1:A:837:MLY:O	1:A:840:PRO:HD2	2.02	0.60
1:D:831:TRP:CD2	2:E:51:PHE:CZ	2.89	0.60
1:G:38:VAL:HB	1:G:52:ILE:HD11	1.84	0.60
1:G:578:HIS:CD2	1:G:591:ASN:HA	2.32	0.60
1:G:579:PHE:CE1	1:G:581:LEU:HD13	2.35	0.60
2:H:34:ILE:O	2:H:46:ASP:HB3	2.01	0.60
1:J:127:ASN:ND2	1:J:128:PRO:HD2	2.16	0.60
1:M:506:GLU:O	1:M:762:HIS:NE2	2.34	0.60
1:M:552:ASN:HD21	4:2:47:MET:HB3	1.62	0.60
1:M:803:TYR:CE2	3:O:17:PHE:CE2	2.88	0.60
1:P:156:PHE:CD1	1:P:195:TYR:CD1	2.90	0.60
4:4:287:ILE:H	4:4:287:ILE:HD12	1.67	0.60
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.60
4:6:223:PHE:HD2	4:6:312:ARG:NH2	1.99	0.60
1:A:557:GLU:HG3	1:A:557:GLU:O	2.01	0.60
1:D:124:VAL:CG1	1:D:675:ILE:HD13	2.31	0.60
1:D:640:LYS:C	1:D:645:SER:OG	2.45	0.60
1:G:124:VAL:HG13	1:G:675:ILE:HD13	1.84	0.60
1:G:557:GLU:HG3	1:G:557:GLU:O	2.00	0.60
1:J:38:VAL:HB	1:J:52:ILE:HD11	1.83	0.60
1:J:623:PHE:CG	1:J:623:PHE:HA	2.35	0.60
1:J:756:THR:HG22	1:J:776:GLU:HB3	1.79	0.60
2:K:130:PRO:HA	2:K:133:ILE:HD12	1.83	0.60
1:M:81:ASN:OD1	1:M:96:HIS:HB2	2.00	0.60
1:M:838:ILE:CD1	2:N:54:MET:HE1	1.94	0.60
1:P:95:THR:HG23	1:P:96:HIS:ND1	2.17	0.60
1:P:640:LYS:C	1:P:645:SER:OG	2.45	0.60
1:P:643:GLY:N	4:1:23:GLY:C	2.55	0.60
4:2:190:MET:HE1	4:2:206:ARG:HA	1.83	0.60
4:2:288:ASP:CB	4:4:203:THR:HG21	2.29	0.60
4:4:190:MET:HE1	4:4:206:ARG:HA	1.83	0.60
4:5:287:ILE:H	4:5:287:ILE:HD12	1.67	0.60
4:6:287:ILE:H	4:6:287:ILE:HD12	1.67	0.60
4:W:223:PHE:HD2	4:W:312:ARG:NH2	1.99	0.60
1:A:813:ILE:O	1:A:817:GLN:N	2.30	0.60
1:D:60:VAL:O	1:D:71:THR:HA	2.02	0.60
1:D:712:PRO:CG	1:D:771:LEU:CB	2.73	0.60
1:D:726:VAL:CG1	1:D:785:GLU:HG3	2.15	0.60
1:D:795:ARG:NE	3:F:116:GLU:HB3	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:831:TRP:CH2	2:E:47:LEU:HA	2.36	0.60
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.60
3:I:49:ILE:CA	3:I:52:ASN:ND2	2.53	0.60
1:J:817:GLN:HG3	2:K:128:PHE:CE1	2.36	0.60
1:M:38:VAL:HB	1:M:52:ILE:HD11	1.83	0.60
1:M:530:MET:HA	4:Z:354:GLN:CB	2.28	0.60
1:M:530:MET:HE1	4:Z:355:MET:SD	2.40	0.60
1:M:795:ARG:HB3	3:O:35:ARG:HH12	1.62	0.60
1:M:796:GLY:CA	3:O:35:ARG:CZ	2.80	0.60
1:M:837:MLY:O	1:M:840:PRO:HD2	2.02	0.60
3:O:50:LEU:O	3:O:53:PRO:HD2	2.00	0.60
1:P:599:ASN:CB	1:P:649:VAL:HB	2.32	0.60
3:R:52:ASN:HB2	3:R:53:PRO:CD	2.28	0.60
4:1:223:PHE:HD2	4:1:312:ARG:NH2	1.99	0.60
4:3:223:PHE:HD2	4:3:312:ARG:NH2	1.99	0.60
1:A:95:THR:HG23	1:A:96:HIS:ND1	2.17	0.60
1:A:124:VAL:CG1	1:A:675:ILE:HD13	2.32	0.60
1:A:643:GLY:O	1:A:644:SER:CB	2.48	0.60
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.60
1:D:727:LEU:HG	1:D:782:MLY:CG	2.19	0.60
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.60
1:G:60:VAL:O	1:G:71:THR:HA	2.02	0.60
3:I:63:ILE:HG22	3:I:64:THR:O	2.01	0.60
1:J:124:VAL:CG1	1:J:675:ILE:HD13	2.32	0.60
1:J:411:GLU:N	4:W:333:PRO:HB2	2.11	0.60
1:J:567:LYS:HZ2	4:Y:92:ASN:HA	1.64	0.60
1:J:640:LYS:C	1:J:645:SER:OG	2.44	0.60
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.60
1:J:837:MLY:O	1:J:840:PRO:HD2	2.02	0.60
2:K:114:LYS:HG3	2:K:146:GLY:HA2	1.82	0.60
1:M:545:ALA:CA	4:2:45:VAL:CG1	2.63	0.60
1:M:797:PHE:CE2	3:O:126:LEU:HD13	2.36	0.60
1:M:839:MLY:HH11	2:N:159:HIS:HD2	1.66	0.60
4:2:361:GLU:HB3	4:2:369:ILE:HG12	1.82	0.60
1:A:707:CYS:CB	1:A:714:ARG:CZ	2.68	0.60
1:D:542:PHE:CB	4:9:143:TYR:HE1	2.13	0.60
1:J:542:PHE:CB	4:W:143:TYR:HE1	2.13	0.60
1:J:550:PHE:CE2	1:J:592:ILE:HG23	2.37	0.60
1:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.60
1:J:643:GLY:O	1:J:644:SER:CB	2.49	0.60
1:J:829:TRP:HZ3	2:K:84:PHE:CD2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:52:ASN:N	3:L:53:PRO:CD	2.65	0.60
1:M:796:GLY:CA	3:O:35:ARG:HD3	2.21	0.60
2:N:112:ILE:C	2:N:147:ASN:O	2.42	0.60
1:P:38:VAL:HB	1:P:52:ILE:HD11	1.84	0.60
1:P:538:GLU:CG	4:1:351:THR:C	2.73	0.60
1:P:839:MLY:HH21	2:Q:158:THR:HG22	1.83	0.60
2:Q:130:PRO:HA	2:Q:133:ILE:HD12	1.84	0.60
3:R:52:ASN:N	3:R:53:PRO:CD	2.65	0.60
3:R:63:ILE:HG22	3:R:64:THR:O	2.01	0.60
4:1:167:GLU:OE2	4:3:43:VAL:O	2.20	0.60
4:3:287:ILE:H	4:3:287:ILE:HD12	1.67	0.60
4:Z:223:PHE:HD2	4:Z:312:ARG:NH2	1.99	0.60
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.60
1:D:40:VAL:HG22	1:D:41:VAL:N	2.16	0.60
1:G:40:VAL:HG22	1:G:41:VAL:H	1.67	0.60
1:G:95:THR:HG23	1:G:96:HIS:ND1	2.17	0.60
1:G:124:VAL:CG1	1:G:675:ILE:HD13	2.31	0.60
1:G:166:MET:HE2	1:G:457:TYR:HB2	1.84	0.60
2:H:130:PRO:HA	2:H:133:ILE:HD12	1.83	0.60
1:M:40:VAL:HG22	1:M:41:VAL:H	1.67	0.60
1:M:787:ILE:O	1:M:790:THR:N	2.35	0.60
1:M:795:ARG:CZ	3:O:116:GLU:OE2	2.49	0.60
1:P:530:MET:CG	4:1:354:GLN:HG3	2.30	0.60
1:P:643:GLY:O	1:P:644:SER:CB	2.49	0.60
1:P:795:ARG:CA	3:R:118:MET:CE	2.79	0.60
2:Q:34:ILE:O	2:Q:46:ASP:HB3	2.01	0.60
4:9:223:PHE:HD2	4:9:312:ARG:NH2	1.99	0.60
1:A:166:MET:HE2	1:A:457:TYR:HB2	1.84	0.60
1:A:553:MLY:NZ	4:V:45:VAL:HG13	2.16	0.60
1:G:530:MET:HA	4:V:354:GLN:CB	2.30	0.60
1:G:623:PHE:CG	1:G:623:PHE:HA	2.36	0.60
1:G:754:ASP:CG	1:G:776:GLU:HA	2.25	0.60
1:G:791:GLN:HE22	3:I:115:GLY:C	2.09	0.60
1:J:40:VAL:HG22	1:J:41:VAL:N	2.16	0.60
1:J:60:VAL:O	1:J:71:THR:HA	2.02	0.60
1:M:49:MLY:HH13	1:M:108:GLU:OE2	2.02	0.60
1:M:124:VAL:HG13	1:M:675:ILE:HD13	1.84	0.60
1:M:536:LEU:HD13	1:M:550:PHE:CE1	2.37	0.60
1:M:546:THR:HG22	1:M:547:ASP:N	2.17	0.60
1:M:838:ILE:HG12	2:N:54:MET:HE1	1.84	0.60
1:P:803:TYR:CD1	1:P:807:VAL:CG1	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:HG21	4:3:203:THR:HG22	1.79	0.60
1:A:124:VAL:HG13	1:A:675:ILE:HD13	1.84	0.59
1:A:550:PHE:CE2	1:A:592:ILE:HG23	2.37	0.59
1:A:787:ILE:O	1:A:790:THR:N	2.35	0.59
1:D:38:VAL:HB	1:D:52:ILE:HD11	1.84	0.59
1:D:536:LEU:HD13	1:D:550:PHE:CE1	2.37	0.59
1:D:557:GLU:HG3	1:D:557:GLU:O	2.00	0.59
1:D:787:ILE:O	1:D:790:THR:N	2.35	0.59
1:G:542:PHE:N	4:V:143:TYR:OH	2.33	0.59
1:G:787:ILE:O	1:G:790:THR:N	2.35	0.59
1:J:95:THR:HG23	1:J:96:HIS:ND1	2.17	0.59
1:J:756:THR:HG21	1:J:779:ARG:HB3	1.84	0.59
1:M:95:THR:HG23	1:M:96:HIS:ND1	2.17	0.59
1:M:557:GLU:HG3	1:M:557:GLU:O	2.00	0.59
1:P:411:GLU:N	4:1:333:PRO:HB2	2.11	0.59
1:P:546:THR:HG22	1:P:547:ASP:N	2.17	0.59
4:1:201:VAL:CG2	4:Y:287:ILE:HG12	2.32	0.59
4:V:286:ASP:OD1	4:X:202:THR:HB	2.02	0.59
1:D:538:GLU:CG	4:9:351:THR:C	2.74	0.59
1:D:836:PHE:CE1	2:E:159:HIS:CB	2.81	0.59
1:G:156:PHE:CD1	1:G:195:TYR:CD1	2.90	0.59
1:J:156:PHE:CD1	1:J:195:TYR:CD1	2.90	0.59
1:J:769:ALA:CB	1:J:770:GLY:HA3	2.31	0.59
1:M:124:VAL:CG1	1:M:675:ILE:HD13	2.32	0.59
1:M:599:ASN:CB	1:M:649:VAL:HB	2.32	0.59
1:M:795:ARG:HB3	3:O:35:ARG:HH22	1.67	0.59
4:9:287:ILE:H	4:9:287:ILE:HD12	1.67	0.59
4:V:286:ASP:OD2	4:X:203:THR:CG2	2.47	0.59
1:A:536:LEU:HD13	1:A:550:PHE:CE1	2.38	0.59
1:A:549:SER:OG	1:A:550:PHE:N	2.36	0.59
1:A:612:GLN:HE22	1:A:627:GLY:HA2	1.66	0.59
1:D:542:PHE:CD1	4:9:143:TYR:CE1	2.90	0.59
1:D:817:GLN:OE1	2:E:127:ARG:NH1	2.16	0.59
1:D:837:MLY:O	1:D:840:PRO:HD2	2.02	0.59
1:G:549:SER:OG	1:G:550:PHE:N	2.35	0.59
1:G:640:LYS:C	1:G:645:SER:OG	2.45	0.59
1:G:776:GLU:O	1:G:779:ARG:HB3	2.03	0.59
1:J:40:VAL:HG22	1:J:41:VAL:H	1.67	0.59
1:J:542:PHE:CD1	4:W:143:TYR:CE1	2.91	0.59
1:J:546:THR:HG22	1:J:547:ASP:N	2.17	0.59
1:J:787:ILE:O	1:J:790:THR:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:826:VAL:CG2	2:K:88:LEU:HD23	2.24	0.59
3:L:49:ILE:HA	3:L:52:ASN:ND2	2.06	0.59
1:M:60:VAL:O	1:M:71:THR:HA	2.02	0.59
4:2:287:ILE:H	4:2:287:ILE:HD12	1.67	0.59
4:V:223:PHE:HD2	4:V:312:ARG:NH2	1.99	0.59
1:A:599:ASN:CB	1:A:649:VAL:HB	2.32	0.59
1:D:553:MLY:CE	4:W:45:VAL:CA	2.49	0.59
1:D:831:TRP:CD2	2:E:51:PHE:CE1	2.90	0.59
1:G:536:LEU:HD13	1:G:550:PHE:CE1	2.37	0.59
1:J:538:GLU:CG	4:W:351:THR:C	2.73	0.59
1:J:813:ILE:O	1:J:817:GLN:N	2.30	0.59
1:J:818:TYR:C	2:K:90:GLY:HA3	2.28	0.59
1:M:127:ASN:ND2	1:M:128:PRO:HD2	2.16	0.59
1:M:210:GLN:O	1:M:211:SER:OG	2.15	0.59
1:P:124:VAL:CG1	1:P:675:ILE:HD13	2.32	0.59
4:1:287:ILE:H	4:1:287:ILE:HD12	1.67	0.59
1:A:542:PHE:CD1	4:8:143:TYR:CE1	2.90	0.59
1:D:195:TYR:O	1:D:199:ILE:HG23	2.03	0.59
1:D:546:THR:HG22	1:D:547:ASP:N	2.17	0.59
1:D:629:GLU:CB	1:D:643:GLY:C	2.76	0.59
1:G:599:ASN:CB	1:G:649:VAL:HB	2.32	0.59
1:J:83:PRO:C	1:J:723:ARG:NH2	2.60	0.59
1:M:642:LYS:HG2	4:Z:22:ALA:C	2.27	0.59
2:N:130:PRO:HA	2:N:133:ILE:HD12	1.83	0.59
1:P:135:TYR:N	1:P:135:TYR:CD1	2.70	0.59
1:P:549:SER:OG	1:P:550:PHE:N	2.36	0.59
1:P:646:PHE:CD2	1:P:652:LEU:CD1	2.85	0.59
1:P:834:LEU:HD21	2:Q:34:ILE:HG12	1.84	0.59
3:R:3:SER:HG	3:R:5:ALA:N	1.98	0.59
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.59
1:D:40:VAL:HG22	1:D:41:VAL:H	1.67	0.59
1:D:95:THR:HG23	1:D:96:HIS:ND1	2.17	0.59
1:D:99:GLU:OE2	1:D:696:ARG:NH2	2.31	0.59
1:D:230:GLU:O	1:D:234:ASN:HB2	2.03	0.59
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.59
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.59
1:D:724:TYR:HA	1:D:782:MLY:HD2	0.65	0.59
1:G:792:ALA:HB2	3:I:42:THR:N	2.03	0.59
1:G:831:TRP:NE1	2:H:67:MET:CG	2.66	0.59
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.59
1:J:195:TYR:O	1:J:199:ILE:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:230:GLU:O	1:J:234:ASN:HB2	2.03	0.59
1:J:549:SER:OG	1:J:550:PHE:N	2.36	0.59
1:J:629:GLU:CB	1:J:643:GLY:C	2.76	0.59
1:J:776:GLU:O	1:J:779:ARG:HB3	2.02	0.59
1:M:95:THR:OG1	1:M:771:LEU:N	2.36	0.59
1:M:202:SER:CA	1:M:207:LYS:HE3	2.27	0.59
1:M:481:ASN:N	1:M:481:ASN:ND2	2.51	0.59
1:M:530:MET:HA	4:Z:354:GLN:CD	2.12	0.59
1:M:550:PHE:CE2	1:M:592:ILE:HG23	2.37	0.59
1:M:640:LYS:C	1:M:645:SER:OG	2.45	0.59
1:M:715:VAL:CG2	1:M:772:LEU:CD2	2.58	0.59
2:N:117:LEU:HD11	2:N:147:ASN:HB3	1.76	0.59
1:P:40:VAL:HG22	1:P:41:VAL:H	1.67	0.59
1:P:124:VAL:HG13	1:P:675:ILE:HD13	1.84	0.59
1:P:506:GLU:OE2	1:P:763:THR:CB	2.50	0.59
1:P:642:LYS:HG2	4:1:22:ALA:C	2.27	0.59
4:8:287:ILE:H	4:8:287:ILE:HD12	1.67	0.59
1:A:156:PHE:CD1	1:A:195:TYR:CD1	2.89	0.59
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	0.59
1:D:116:TYR:HB2	1:D:153:PRO:O	2.03	0.59
1:G:84:MLY:CH2	1:G:719:ASP:C	2.75	0.59
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.59
1:G:553:MLY:HB2	4:X:46:GLY:HA3	1.83	0.59
1:G:795:ARG:C	3:I:35:ARG:HH22	2.10	0.59
1:J:784:ALA:O	1:J:788:THR:HB	2.02	0.59
1:J:798:LEU:HD12	3:L:126:LEU:CD1	2.00	0.59
1:M:265:ILE:HG22	1:M:266:GLU:N	2.18	0.59
1:M:578:HIS:CD2	1:M:591:ASN:HA	2.32	0.59
1:P:230:GLU:O	1:P:234:ASN:HB2	2.03	0.59
1:P:536:LEU:HD13	1:P:550:PHE:CE1	2.37	0.59
1:P:538:GLU:HA	4:1:349:LEU:CG	2.28	0.59
1:P:629:GLU:CB	1:P:643:GLY:C	2.76	0.59
1:P:776:GLU:O	1:P:779:ARG:HB3	2.03	0.59
4:1:244:ASP:OD2	4:Y:325:MET:HE1	2.01	0.59
4:2:44:MET:HA	4:Z:167:GLU:OE1	2.03	0.59
4:2:223:PHE:HD2	4:2:312:ARG:NH2	1.99	0.59
4:7:223:PHE:HD2	4:7:312:ARG:NH2	1.99	0.59
4:Z:287:ILE:HD12	4:Z:287:ILE:H	1.67	0.59
1:A:230:GLU:O	1:A:234:ASN:HB2	2.03	0.59
1:A:546:THR:HG22	1:A:547:ASP:N	2.17	0.59
1:D:553:MLY:NZ	4:W:45:VAL:HG13	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:578:HIS:CD2	1:D:591:ASN:HA	2.32	0.59
2:E:130:PRO:HA	2:E:133:ILE:HD12	1.84	0.59
3:F:63:ILE:HG22	3:F:64:THR:O	2.01	0.59
1:G:538:GLU:CG	4:V:351:THR:C	2.73	0.59
1:G:601:ASP:N	1:G:602:PRO:HD3	2.18	0.59
1:G:629:GLU:CB	1:G:643:GLY:C	2.76	0.59
1:G:721:LYS:C	1:G:736:GLN:OE1	2.46	0.59
1:J:210:GLN:O	1:J:211:SER:OG	2.15	0.59
1:J:553:MLY:CH1	4:Y:45:VAL:HG11	2.32	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.85	0.59
1:M:166:MET:HE2	1:M:457:TYR:HB2	1.85	0.59
1:M:725:ARG:NH1	3:O:93:VAL:CG2	2.54	0.59
1:P:787:ILE:O	1:P:790:THR:N	2.35	0.59
1:A:40:VAL:HG22	1:A:41:VAL:H	1.67	0.59
1:A:481:ASN:N	1:A:481:ASN:ND2	2.51	0.59
1:A:629:GLU:CB	1:A:643:GLY:C	2.76	0.59
1:D:135:TYR:N	1:D:135:TYR:CD1	2.70	0.59
1:D:541:MET:SD	4:9:346:LEU:O	2.48	0.59
3:F:52:ASN:N	3:F:53:PRO:CD	2.65	0.59
1:G:124:VAL:HG13	1:G:675:ILE:CD1	2.33	0.59
1:G:752:ASP:OD1	1:G:783:LEU:CB	2.50	0.59
1:J:124:VAL:HG13	1:J:675:ILE:HD13	1.84	0.59
1:J:599:ASN:CB	1:J:649:VAL:HB	2.32	0.59
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.59
1:M:156:PHE:CD1	1:M:195:TYR:CD1	2.90	0.59
1:M:795:ARG:HA	3:O:118:MET:SD	2.42	0.59
1:M:801:VAL:HG21	3:O:126:LEU:HD21	1.84	0.59
1:P:538:GLU:O	1:P:541:MET:HB2	2.03	0.59
1:P:557:GLU:HG3	1:P:557:GLU:O	2.00	0.59
1:P:831:TRP:NE1	2:Q:67:MET:HB3	2.18	0.59
1:A:60:VAL:O	1:A:71:THR:HA	2.02	0.59
1:A:265:ILE:HG22	1:A:266:GLU:N	2.18	0.59
1:A:776:GLU:O	1:A:779:ARG:HB3	2.03	0.59
1:D:166:MET:HE2	1:D:457:TYR:HB2	1.84	0.59
1:D:646:PHE:CD2	1:D:652:LEU:CD1	2.85	0.59
1:G:93:MET:HE2	1:G:764:MLY:CG	2.32	0.59
1:G:265:ILE:HG22	1:G:266:GLU:N	2.18	0.59
1:G:629:GLU:HB3	1:G:645:SER:N	2.18	0.59
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	0.59
1:J:553:MLY:HE3	4:Y:45:VAL:HG12	1.80	0.59
1:J:553:MLY:HG3	4:Y:45:VAL:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:557:GLU:HG3	1:J:557:GLU:O	2.00	0.59
1:J:715:VAL:HG11	1:J:720:PHE:HD1	1.68	0.59
1:J:732:ILE:HG22	1:J:747:LEU:CD1	1.55	0.59
1:M:195:TYR:O	1:M:199:ILE:HG23	2.03	0.59
1:M:538:GLU:O	1:M:541:MET:HB2	2.03	0.59
1:M:817:GLN:CD	2:N:128:PHE:CE1	2.80	0.59
1:M:834:LEU:HD21	2:N:34:ILE:HG12	1.84	0.59
3:O:127:MET:HE2	3:O:137:ILE:HD13	1.85	0.59
1:P:60:VAL:O	1:P:71:THR:HA	2.02	0.59
1:P:767:PHE:CZ	1:P:772:LEU:HD11	2.37	0.59
3:R:127:MET:HE2	3:R:137:ILE:HD13	1.85	0.59
1:A:464:ILE:HG22	1:A:465:ALA:N	2.18	0.58
1:A:601:ASP:N	1:A:602:PRO:HD3	2.18	0.58
1:D:49:MLY:HH13	1:D:108:GLU:OE2	2.02	0.58
1:D:529:PRO:HG3	4:9:353:GLN:OE1	2.03	0.58
1:G:542:PHE:CD1	4:V:143:TYR:CE1	2.91	0.58
1:J:49:MLY:HH13	1:J:108:GLU:OE2	2.02	0.58
1:J:536:LEU:HD13	1:J:550:PHE:CE1	2.37	0.58
1:J:629:GLU:HB3	1:J:645:SER:N	2.18	0.58
1:J:721:LYS:C	1:J:736:GLN:OE1	2.46	0.58
1:M:629:GLU:HB3	1:M:645:SER:N	2.18	0.58
1:P:195:TYR:O	1:P:199:ILE:HG23	2.03	0.58
1:P:542:PHE:CD1	4:1:143:TYR:CE1	2.91	0.58
1:P:649:VAL:HA	1:P:649:VAL:HG22	1.81	0.58
4:1:201:VAL:CG2	4:Y:287:ILE:CG1	2.79	0.58
1:A:141:LEU:O	1:A:144:ARG:HB3	2.03	0.58
1:A:837:MLY:CH2	2:H:20:ASP:HA	2.33	0.58
1:D:124:VAL:HG13	1:D:675:ILE:HD13	1.84	0.58
1:D:464:ILE:HG22	1:D:465:ALA:N	2.18	0.58
1:D:549:SER:OG	1:D:550:PHE:N	2.36	0.58
1:D:715:VAL:HG11	1:D:720:PHE:HD1	1.68	0.58
1:G:49:MLY:HH13	1:G:108:GLU:OE2	2.03	0.58
1:G:175:ILE:HA	1:G:670:HIS:O	2.04	0.58
1:G:646:PHE:CD2	1:G:652:LEU:CD1	2.85	0.58
1:J:642:LYS:CD	4:W:340:TRP:CZ3	2.79	0.58
1:M:135:TYR:N	1:M:135:TYR:CD1	2.70	0.58
1:M:141:LEU:O	1:M:144:ARG:HB3	2.04	0.58
1:M:542:PHE:CD1	4:Z:143:TYR:CE1	2.91	0.58
1:P:116:TYR:HB2	1:P:153:PRO:O	2.03	0.58
1:P:210:GLN:O	1:P:211:SER:OG	2.15	0.58
1:P:629:GLU:HB3	1:P:645:SER:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:721:LYS:C	1:P:736:GLN:OE1	2.46	0.58
1:P:813:ILE:O	1:P:817:GLN:N	2.30	0.58
1:A:49:MLY:HH13	1:A:108:GLU:OE2	2.03	0.58
1:A:629:GLU:HB3	1:A:645:SER:N	2.19	0.58
1:D:48:VAL:HG22	1:D:49:MLY:N	2.18	0.58
1:D:141:LEU:O	1:D:144:ARG:HB3	2.03	0.58
1:D:599:ASN:CB	1:D:649:VAL:HB	2.32	0.58
1:D:776:GLU:O	1:D:779:ARG:HB3	2.03	0.58
1:G:135:TYR:N	1:G:135:TYR:CD1	2.70	0.58
1:G:503:TYR:HE1	1:G:711:PHE:CD2	2.18	0.58
1:G:715:VAL:HG11	1:G:720:PHE:HD1	1.68	0.58
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.58
1:J:530:MET:CG	4:W:354:GLN:HG3	2.31	0.58
1:M:546:THR:C	4:2:46:GLY:O	2.46	0.58
1:M:629:GLU:CB	1:M:643:GLY:C	2.75	0.58
1:P:49:MLY:HH13	1:P:108:GLU:OE2	2.02	0.58
1:P:124:VAL:HG13	1:P:675:ILE:CD1	2.33	0.58
4:1:202:THR:CG2	4:Y:285:CYS:O	2.46	0.58
4:7:287:ILE:HD12	4:7:287:ILE:H	1.67	0.58
4:X:287:ILE:O	4:Z:205:GLU:OE1	2.21	0.58
4:Y:223:PHE:HD2	4:Y:312:ARG:NH2	1.99	0.58
1:A:48:VAL:HG22	1:A:49:MLY:N	2.18	0.58
1:D:713:SER:CB	1:D:775:LEU:CD2	2.67	0.58
1:D:813:ILE:O	1:D:817:GLN:N	2.30	0.58
1:G:230:GLU:O	1:G:234:ASN:HB2	2.03	0.58
1:G:464:ILE:HG22	1:G:465:ALA:N	2.18	0.58
1:G:830:PRO:HB2	2:H:67:MET:CE	2.24	0.58
3:I:3:SER:HG	3:I:5:ALA:N	2.02	0.58
1:J:538:GLU:HA	4:W:349:LEU:CG	2.28	0.58
1:M:549:SER:OG	1:M:550:PHE:N	2.36	0.58
1:M:721:LYS:C	1:M:736:GLN:OE1	2.46	0.58
1:A:135:TYR:N	1:A:135:TYR:CD1	2.70	0.58
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.99	0.58
1:D:175:ILE:HA	1:D:670:HIS:O	2.03	0.58
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	0.58
1:G:769:ALA:HB2	1:G:770:GLY:N	2.16	0.58
1:G:795:ARG:CB	3:I:35:ARG:CZ	2.82	0.58
1:G:837:MLY:O	1:G:840:PRO:HD2	2.02	0.58
2:H:117:LEU:HD11	2:H:147:ASN:HB3	1.76	0.58
1:J:166:MET:HE2	1:J:457:TYR:HB2	1.85	0.58
1:M:175:ILE:HA	1:M:670:HIS:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:464:ILE:HG22	1:M:465:ALA:N	2.18	0.58
1:M:646:PHE:CD2	1:M:652:LEU:CD1	2.85	0.58
1:P:723:ARG:HG2	1:P:779:ARG:NH2	2.17	0.58
1:P:817:GLN:CB	2:Q:127:ARG:CD	2.81	0.58
1:A:175:ILE:HA	1:A:670:HIS:O	2.04	0.58
1:A:529:PRO:HG3	4:8:353:GLN:OE1	2.03	0.58
1:A:649:VAL:HA	1:A:649:VAL:HG22	1.80	0.58
1:A:794:CYS:O	1:A:798:LEU:N	2.37	0.58
1:D:107:MLY:CB	1:D:686:MET:HE2	2.32	0.58
1:D:601:ASP:N	1:D:602:PRO:HD3	2.18	0.58
1:D:831:TRP:CZ2	2:E:47:LEU:CD2	2.87	0.58
1:G:48:VAL:HG22	1:G:49:MLY:N	2.18	0.58
1:G:546:THR:HG22	1:G:547:ASP:N	2.17	0.58
1:G:649:VAL:HA	1:G:649:VAL:HG22	1.80	0.58
1:G:829:TRP:CH2	2:H:87:LYS:CE	2.87	0.58
1:J:116:TYR:HB2	1:J:153:PRO:O	2.03	0.58
1:J:464:ILE:HG22	1:J:465:ALA:N	2.18	0.58
1:J:538:GLU:O	1:J:541:MET:HB2	2.04	0.58
1:P:217:THR:C	1:P:221:GLN:NE2	2.62	0.58
1:P:506:GLU:C	1:P:761:GLY:HA3	2.29	0.58
1:P:529:PRO:HG3	4:1:353:GLN:OE1	2.04	0.58
1:P:550:PHE:CE2	1:P:592:ILE:HG23	2.37	0.58
1:P:715:VAL:HG11	1:P:720:PHE:HD1	1.68	0.58
4:1:243:PRO:CB	4:Y:291:LYS:CD	2.69	0.58
4:W:285:CYS:O	4:Y:202:THR:CG2	2.52	0.58
1:A:127:ASN:ND2	1:A:128:PRO:HD2	2.17	0.58
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	0.58
1:A:218:LEU:N	1:A:221:GLN:HE21	2.01	0.58
1:A:643:GLY:HA2	4:8:24:ASP:OD1	2.04	0.58
1:D:254:PHE:CE2	1:D:459:ILE:HD12	2.39	0.58
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.85	0.58
1:G:95:THR:HA	1:G:713:SER:OG	2.04	0.58
1:G:116:TYR:HB2	1:G:153:PRO:O	2.03	0.58
1:G:538:GLU:O	1:G:541:MET:HB2	2.04	0.58
1:G:642:LYS:CG	4:V:22:ALA:CA	2.80	0.58
1:J:64:THR:HG22	1:J:65:GLU:N	2.19	0.58
1:J:93:MET:HE2	1:J:764:MLY:CD	2.34	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:M:124:VAL:HG13	1:M:675:ILE:CD1	2.33	0.58
1:M:601:ASP:N	1:M:602:PRO:HD3	2.18	0.58
1:M:643:GLY:HA2	4:Z:24:ASP:OD1	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:776:GLU:O	1:M:779:ARG:HB3	2.03	0.58
1:P:48:VAL:HG22	1:P:49:MLY:N	2.18	0.58
1:P:64:THR:HG22	1:P:65:GLU:N	2.19	0.58
1:P:254:PHE:CE2	1:P:459:ILE:HD12	2.39	0.58
1:P:599:ASN:CG	1:P:649:VAL:H	2.12	0.58
1:P:601:ASP:N	1:P:602:PRO:HD3	2.19	0.58
1:P:676:ILE:O	1:P:676:ILE:HG23	2.03	0.58
1:P:791:GLN:NE2	3:R:116:GLU:N	2.52	0.58
4:W:286:ASP:OD1	4:Y:203:THR:HG22	2.04	0.58
1:A:254:PHE:CE2	1:A:459:ILE:HD12	2.39	0.58
1:A:715:VAL:HG11	1:A:720:PHE:HD1	1.68	0.58
1:D:64:THR:HG22	1:D:65:GLU:N	2.19	0.58
1:D:124:VAL:HG13	1:D:675:ILE:CD1	2.33	0.58
1:D:732:ILE:CG2	1:D:782:MLY:CH2	2.67	0.58
3:F:52:ASN:HB2	3:F:53:PRO:CD	2.28	0.58
1:G:107:MLY:CB	1:G:686:MET:HE2	2.32	0.58
1:G:141:LEU:O	1:G:144:ARG:HB3	2.03	0.58
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.58
1:G:550:PHE:CE2	1:G:592:ILE:HG23	2.37	0.58
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	0.58
1:J:135:TYR:N	1:J:135:TYR:CD1	2.70	0.58
1:J:175:ILE:HA	1:J:670:HIS:O	2.03	0.58
1:M:254:PHE:CE2	1:M:459:ILE:HD12	2.39	0.58
1:M:529:PRO:HG3	4:Z:353:GLN:OE1	2.04	0.58
1:M:676:ILE:O	1:M:676:ILE:HG23	2.03	0.58
1:M:725:ARG:NH2	3:O:89:GLU:HB3	2.17	0.58
3:O:52:ASN:N	3:O:53:PRO:CD	2.65	0.58
3:O:102:VAL:HG11	3:O:107:LEU:HB2	1.85	0.58
1:P:834:LEU:CD2	2:Q:34:ILE:CD1	2.82	0.58
4:1:247:VAL:CG2	4:Y:324:THR:HG21	2.30	0.58
4:2:287:ILE:HB	4:4:203:THR:CA	2.33	0.58
4:X:223:PHE:HD2	4:X:312:ARG:NH2	1.99	0.58
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.86	0.58
1:A:707:CYS:SG	1:A:714:ARG:CZ	2.91	0.58
1:D:550:PHE:CE2	1:D:592:ILE:HG23	2.37	0.58
1:D:727:LEU:HB2	1:D:782:MLY:HH13	0.58	0.58
1:D:727:LEU:CB	1:D:782:MLY:CE	2.81	0.58
1:D:795:ARG:CZ	3:F:116:GLU:HB3	2.33	0.58
1:D:831:TRP:HZ3	2:E:34:ILE:HG12	1.68	0.58
1:G:529:PRO:HG3	4:V:353:GLN:OE1	2.04	0.58
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:643:GLY:HA2	4:V:24:ASP:OD1	2.04	0.58
1:G:769:ALA:O	1:G:773:GLY:HA2	2.01	0.58
3:I:127:MET:HE2	3:I:137:ILE:HD13	1.85	0.58
1:J:124:VAL:HG13	1:J:675:ILE:CD1	2.33	0.58
1:J:797:PHE:HE2	3:L:126:LEU:HD13	1.69	0.58
1:M:64:THR:HG22	1:M:65:GLU:N	2.19	0.58
1:M:599:ASN:CG	1:M:649:VAL:H	2.12	0.58
1:P:817:GLN:CB	2:Q:127:ARG:HD2	2.34	0.58
4:1:243:PRO:C	4:Y:291:LYS:CG	2.77	0.58
4:1:243:PRO:CA	4:Y:291:LYS:CE	2.81	0.58
4:8:223:PHE:HD2	4:8:312:ARG:NH2	1.99	0.58
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.58
1:A:279:LEU:HB3	1:A:280:PRO:HD2	1.86	0.58
1:A:538:GLU:O	1:A:541:MET:HB2	2.04	0.58
1:A:646:PHE:CD2	1:A:652:LEU:CD1	2.85	0.58
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.58
1:J:22:LYS:O	1:J:26:GLU:N	2.30	0.58
1:J:141:LEU:O	1:J:144:ARG:HB3	2.04	0.58
1:J:552:ASN:O	4:Y:47:MET:HE1	2.03	0.58
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.97	0.58
1:J:568:PRO:HG3	1:J:578:HIS:H	1.69	0.58
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	0.58
1:P:464:ILE:HG22	1:P:465:ALA:N	2.18	0.58
3:R:102:VAL:HG11	3:R:107:LEU:HB2	1.85	0.58
4:1:201:VAL:HG23	4:Y:287:ILE:HG13	1.85	0.58
4:1:203:THR:HG22	4:Y:286:ASP:OD2	2.04	0.58
4:1:247:VAL:N	4:Y:324:THR:HB	2.18	0.58
4:X:285:CYS:O	4:Z:202:THR:CG2	2.48	0.58
1:A:107:MLY:CB	1:A:686:MET:HE2	2.32	0.57
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	0.57
1:D:629:GLU:HB3	1:D:645:SER:N	2.18	0.57
1:G:753:VAL:O	1:G:779:ARG:HD3	1.98	0.57
1:G:829:TRP:CZ3	2:H:84:PHE:CZ	2.91	0.57
1:J:48:VAL:HG22	1:J:49:MLY:N	2.18	0.57
1:J:254:PHE:CE2	1:J:459:ILE:HD12	2.39	0.57
1:J:599:ASN:CG	1:J:649:VAL:H	2.12	0.57
1:J:642:LYS:CG	4:W:22:ALA:CA	2.80	0.57
1:M:643:GLY:N	4:Z:23:GLY:C	2.55	0.57
3:O:49:ILE:HA	3:O:52:ASN:ND2	2.06	0.57
1:P:175:ILE:HA	1:P:670:HIS:O	2.04	0.57
4:2:203:THR:HG22	4:Z:287:ILE:C	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:149:GLN:CG	1:A:719:ASP:N	2.65	0.57
1:A:215:GLN:CA	1:A:340:ILE:CG2	2.63	0.57
1:D:265:ILE:HG22	1:D:266:GLU:N	2.18	0.57
1:D:418:THR:HG22	1:D:419:VAL:H	1.69	0.57
3:F:102:VAL:HG11	3:F:107:LEU:HB2	1.85	0.57
1:G:64:THR:HG22	1:G:65:GLU:N	2.19	0.57
1:G:553:MLY:HH12	4:X:45:VAL:CG1	2.29	0.57
1:G:599:ASN:CG	1:G:649:VAL:H	2.12	0.57
1:J:529:PRO:HG3	4:W:353:GLN:OE1	2.04	0.57
1:M:7:MET:HE3	1:M:14:ALA:HB1	1.85	0.57
1:M:116:TYR:HB2	1:M:153:PRO:O	2.03	0.57
1:M:230:GLU:O	1:M:234:ASN:HB2	2.03	0.57
1:M:793:ARG:CZ	3:O:40:ASN:ND2	2.65	0.57
1:A:195:TYR:O	1:A:199:ILE:HG23	2.03	0.57
1:D:279:LEU:HB3	1:D:280:PRO:HD2	1.86	0.57
1:D:530:MET:CA	4:9:354:GLN:HB3	2.35	0.57
1:D:538:GLU:O	1:D:541:MET:HB2	2.04	0.57
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	0.57
1:D:831:TRP:CZ3	2:E:50:THR:CG2	2.86	0.57
1:G:217:THR:C	1:G:221:GLN:NE2	2.62	0.57
1:G:279:LEU:HB3	1:G:280:PRO:HD2	1.86	0.57
1:G:757:GLN:CB	1:G:776:GLU:CG	2.81	0.57
1:G:794:CYS:O	1:G:798:LEU:N	2.37	0.57
1:J:107:MLY:CB	1:J:686:MET:HE2	2.32	0.57
1:J:409:GLY:HA3	4:W:333:PRO:CD	2.35	0.57
1:J:530:MET:CA	4:W:354:GLN:HB3	2.35	0.57
1:J:794:CYS:O	1:J:798:LEU:N	2.37	0.57
1:M:322:VAL:HG11	1:M:325:ILE:HD11	1.86	0.57
3:O:46:ILE:O	3:O:50:LEU:CG	2.47	0.57
1:P:141:LEU:O	1:P:144:ARG:HB3	2.04	0.57
1:P:481:ASN:N	1:P:481:ASN:ND2	2.51	0.57
3:R:102:VAL:HG23	3:R:139:TYR:CD1	2.39	0.57
4:X:287:ILE:HG13	4:Z:201:VAL:CB	2.34	0.57
1:A:97:LEU:HD21	1:A:712:PRO:C	2.29	0.57
1:A:676:ILE:HG23	1:A:676:ILE:O	2.03	0.57
1:D:409:GLY:HA3	4:9:333:PRO:CD	2.35	0.57
1:D:834:LEU:CD2	2:E:54:MET:SD	2.87	0.57
1:G:127:ASN:ND2	1:G:128:PRO:HD2	2.17	0.57
1:G:754:ASP:CG	1:G:779:ARG:HB2	2.25	0.57
1:J:784:ALA:O	1:J:788:THR:CB	2.52	0.57
1:M:279:LEU:HB3	1:M:280:PRO:HD2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:409:GLY:HA3	4:Z:333:PRO:CD	2.35	0.57
1:M:785:GLU:O	1:M:788:THR:HB	2.04	0.57
3:O:3:SER:HG	3:O:5:ALA:N	2.03	0.57
1:P:166:MET:HE2	1:P:457:TYR:HB2	1.85	0.57
1:P:830:PRO:HG3	2:Q:67:MET:HE2	1.85	0.57
4:2:244:ASP:HA	4:Z:324:THR:HG23	1.86	0.57
4:4:287:ILE:HG21	4:6:204:ALA:H	1.67	0.57
4:X:325:MET:CE	4:Z:244:ASP:OD2	2.52	0.57
1:A:99:GLU:OE2	1:A:696:ARG:NH2	2.30	0.57
1:A:116:TYR:HB2	1:A:153:PRO:O	2.03	0.57
1:A:505:MLY:H	1:A:762:HIS:CD2	2.22	0.57
1:A:541:MET:HG2	4:8:345:ILE:CG2	2.35	0.57
1:A:707:CYS:CB	1:A:714:ARG:NH1	2.66	0.57
1:D:506:GLU:OE2	1:D:764:MLY:CE	2.52	0.57
1:D:800:ARG:CB	3:F:149:VAL:CG2	2.79	0.57
3:F:127:MET:HE2	3:F:137:ILE:HD13	1.85	0.57
1:G:254:PHE:CE2	1:G:459:ILE:HD12	2.39	0.57
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.57
3:L:52:ASN:HB2	3:L:53:PRO:CD	2.28	0.57
1:M:747:LEU:O	1:M:747:LEU:HD23	2.05	0.57
1:P:265:ILE:HG22	1:P:266:GLU:N	2.18	0.57
1:P:418:THR:HG22	1:P:419:VAL:H	1.69	0.57
1:P:723:ARG:HG2	1:P:779:ARG:CZ	2.35	0.57
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	0.57
1:D:217:THR:C	1:D:221:GLN:NE2	2.62	0.57
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	0.57
1:G:92:ALA:O	1:G:714:ARG:HG3	1.98	0.57
1:G:676:ILE:HG23	1:G:676:ILE:O	2.03	0.57
1:G:797:PHE:CE2	3:I:126:LEU:CD1	2.88	0.57
1:J:279:LEU:HB3	1:J:280:PRO:HD2	1.86	0.57
1:J:418:THR:HG22	1:J:419:VAL:H	1.69	0.57
1:J:813:ILE:O	1:J:816:ILE:N	2.37	0.57
3:L:127:MET:HE2	3:L:137:ILE:HD13	1.85	0.57
1:M:107:MLY:CB	1:M:686:MET:HE2	2.32	0.57
1:M:568:PRO:HG3	1:M:578:HIS:H	1.69	0.57
1:M:782:MLY:O	1:M:786:ILE:HG13	2.05	0.57
1:M:797:PHE:HE2	3:O:126:LEU:CD1	2.17	0.57
1:M:806:MET:C	1:M:807:VAL:CG2	2.68	0.57
1:M:813:ILE:O	1:M:816:ILE:N	2.38	0.57
1:P:279:LEU:HB3	1:P:280:PRO:HD2	1.86	0.57
1:P:642:LYS:CA	4:1:22:ALA:C	2.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:643:GLY:HA2	4:1:24:ASP:OD1	2.04	0.57
1:P:813:ILE:O	1:P:816:ILE:N	2.37	0.57
4:X:287:ILE:HG13	4:Z:201:VAL:CG2	2.33	0.57
1:A:502:GLU:O	1:A:761:GLY:CA	2.53	0.57
1:A:747:LEU:HD23	1:A:747:LEU:O	2.05	0.57
1:G:818:TYR:CZ	2:H:127:ARG:NH1	2.73	0.57
3:I:102:VAL:HG11	3:I:107:LEU:HB2	1.85	0.57
1:J:265:ILE:HG22	1:J:266:GLU:N	2.18	0.57
1:J:792:ALA:H	3:L:42:THR:CG2	2.16	0.57
1:M:217:THR:C	1:M:221:GLN:NE2	2.62	0.57
1:P:642:LYS:CG	4:1:22:ALA:CA	2.80	0.57
4:1:246:GLN:N	4:Y:324:THR:HB	2.19	0.57
1:A:109:ARG:O	1:A:114:MET:N	2.37	0.57
1:A:568:PRO:HG3	1:A:578:HIS:H	1.69	0.57
1:A:813:ILE:O	1:A:816:ILE:N	2.38	0.57
1:D:109:ARG:O	1:D:114:MET:N	2.37	0.57
1:D:218:LEU:N	1:D:221:GLN:HE21	2.01	0.57
1:D:411:GLU:N	4:9:333:PRO:HB2	2.11	0.57
1:P:502:GLU:OE2	1:P:764:MLY:HH13	2.04	0.57
1:P:506:GLU:C	1:P:762:HIS:N	2.58	0.57
1:P:635:GLY:HA3	4:1:334:GLU:CG	2.30	0.57
1:A:64:THR:HG22	1:A:65:GLU:N	2.19	0.57
1:A:530:MET:CA	4:8:354:GLN:HB3	2.34	0.57
1:A:640:LYS:C	4:8:23:GLY:CA	2.64	0.57
1:A:768:MLY:CB	1:A:771:LEU:CD1	2.77	0.57
1:A:783:LEU:O	1:A:787:ILE:N	2.28	0.57
1:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.57
1:D:767:PHE:CE1	1:D:778:MET:HE1	2.40	0.57
1:D:783:LEU:O	1:D:787:ILE:N	2.28	0.57
1:G:28:GLN:HB3	1:G:723:ARG:HH12	1.69	0.57
1:G:792:ALA:H	3:I:42:THR:HG22	1.70	0.57
1:G:838:ILE:HG13	2:H:54:MET:CE	2.34	0.57
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	0.57
1:J:676:ILE:HG23	1:J:676:ILE:O	2.03	0.57
1:M:612:GLN:HE22	1:M:627:GLY:HA2	1.66	0.57
1:M:831:TRP:NE1	2:N:67:MET:HB3	2.18	0.57
1:P:409:GLY:HA3	4:1:333:PRO:CD	2.35	0.57
1:A:322:VAL:HG11	1:A:325:ILE:HD11	1.86	0.57
1:A:579:PHE:CD2	1:A:592:ILE:HD11	2.40	0.57
1:D:712:PRO:HG2	1:D:771:LEU:HD13	1.86	0.57
1:D:747:LEU:HD23	1:D:747:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:797:PHE:CD1	3:F:146:ILE:CB	2.83	0.57
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	0.57
1:G:757:GLN:OE1	1:G:772:LEU:CB	2.52	0.57
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.85	0.57
1:J:541:MET:HG2	4:W:345:ILE:CG2	2.35	0.57
1:J:829:TRP:CH2	2:K:87:LYS:CE	2.87	0.57
1:P:127:ASN:ND2	1:P:128:PRO:HD2	2.16	0.57
1:P:218:LEU:N	1:P:221:GLN:HE21	2.01	0.57
1:P:733:PRO:HB3	3:R:85:GLU:HG2	1.87	0.57
4:4:287:ILE:HB	4:6:203:THR:CG2	2.35	0.57
4:V:288:ASP:N	4:X:204:ALA:H	2.03	0.57
1:A:505:MLY:HH21	1:A:762:HIS:O	2.05	0.56
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.85	0.56
1:D:302:MET:HG2	1:D:303:LEU:HD13	1.87	0.56
1:D:541:MET:HG2	4:9:345:ILE:CG2	2.35	0.56
1:D:568:PRO:HG3	1:D:578:HIS:H	1.69	0.56
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.56
1:D:643:GLY:HA2	4:9:24:ASP:OD1	2.04	0.56
1:D:676:ILE:HG23	1:D:676:ILE:O	2.03	0.56
1:G:579:PHE:CD2	1:G:592:ILE:HD11	2.40	0.56
1:G:813:ILE:O	1:G:816:ILE:N	2.37	0.56
1:M:22:LYS:HA	1:M:25:ILE:HB	1.87	0.56
1:M:48:VAL:HG22	1:M:49:MLY:N	2.18	0.56
1:M:218:LEU:N	1:M:221:GLN:HE21	2.01	0.56
1:M:819:ASN:N	2:N:90:GLY:O	2.38	0.56
1:P:7:MET:HE3	1:P:14:ALA:HB1	1.85	0.56
1:P:82:PRO:HD2	1:P:85:TYR:CD2	2.40	0.56
1:P:630:ALA:CA	4:1:25:ASP:OD2	2.53	0.56
1:P:829:TRP:CZ2	2:Q:87:LYS:CE	2.83	0.56
4:4:223:PHE:HD2	4:4:312:ARG:NH2	1.99	0.56
1:D:529:PRO:CG	4:9:353:GLN:OE1	2.54	0.56
1:D:813:ILE:O	1:D:816:ILE:N	2.38	0.56
1:D:838:ILE:CD1	2:E:54:MET:CE	2.83	0.56
3:F:46:ILE:O	3:F:50:LEU:CG	2.47	0.56
1:G:411:GLU:H	4:V:333:PRO:HG2	1.70	0.56
1:G:541:MET:HG2	4:V:345:ILE:CG2	2.35	0.56
1:G:638:GLY:CA	4:V:345:ILE:H	2.18	0.56
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.56
3:L:3:SER:HG	3:L:5:ALA:N	2.03	0.56
1:M:541:MET:HG2	4:Z:345:ILE:CG2	2.35	0.56
1:P:411:GLU:H	4:1:333:PRO:HG2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:634:GLY:N	4:1:25:ASP:O	2.31	0.56
1:P:747:LEU:O	1:P:747:LEU:HD23	2.05	0.56
1:P:786:ILE:C	1:P:789:ALA:N	2.60	0.56
4:3:287:ILE:HB	4:5:204:ALA:N	2.21	0.56
4:4:322:PRO:C	4:6:244:ASP:HB2	2.30	0.56
1:A:82:PRO:HD2	1:A:85:TYR:CD2	2.40	0.56
1:A:116:TYR:CE2	1:A:154:HIS:CD2	2.94	0.56
1:A:409:GLY:HA3	4:8:333:PRO:CD	2.34	0.56
1:A:508:ILE:HD11	1:A:759:ALA:HB1	0.56	0.56
1:A:539:GLU:OE2	4:V:45:VAL:C	2.48	0.56
1:A:642:LYS:HG2	4:8:22:ALA:C	2.28	0.56
1:A:677:PRO:HB2	1:A:678:ASN:ND2	2.20	0.56
1:D:135:TYR:N	1:D:135:TYR:HD1	2.04	0.56
1:D:411:GLU:H	4:9:333:PRO:HG2	1.70	0.56
1:D:724:TYR:HB3	1:D:782:MLY:CE	2.35	0.56
1:D:823:PHE:HD1	2:E:160:GLY:CA	2.14	0.56
1:G:135:TYR:N	1:G:135:TYR:HD1	2.04	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:G:677:PRO:HB2	1:G:678:ASN:ND2	2.20	0.56
1:G:747:LEU:HD23	1:G:747:LEU:O	2.05	0.56
1:G:754:ASP:CG	1:G:779:ARG:CD	2.69	0.56
1:J:94:MET:O	1:J:713:SER:HA	2.04	0.56
1:J:561:LYS:HE3	4:Y:48:GLY:CA	2.29	0.56
1:J:747:LEU:O	1:J:747:LEU:HD23	2.05	0.56
1:J:783:LEU:O	1:J:787:ILE:CB	2.52	0.56
1:M:217:THR:HG22	1:M:218:LEU:O	2.05	0.56
1:M:530:MET:CA	4:Z:354:GLN:HB3	2.35	0.56
1:M:553:MLY:CH2	4:2:43:VAL:HG22	2.36	0.56
1:M:677:PRO:HB2	1:M:678:ASN:ND2	2.20	0.56
1:M:782:MLY:O	1:M:786:ILE:CG1	2.54	0.56
1:M:829:TRP:CZ2	2:N:87:LYS:CE	2.86	0.56
1:P:109:ARG:O	1:P:114:MET:N	2.37	0.56
1:P:338:ILE:HG21	1:P:348:MLY:HB3	1.87	0.56
1:P:579:PHE:CD2	1:P:592:ILE:HD11	2.40	0.56
1:P:642:LYS:CD	4:1:340:TRP:CZ3	2.79	0.56
1:P:723:ARG:NE	1:P:779:ARG:CD	2.68	0.56
1:P:791:GLN:HE22	3:R:115:GLY:HA3	0.48	0.56
1:P:829:TRP:CD2	2:Q:87:LYS:HE2	2.40	0.56
4:1:287:ILE:CD1	4:3:203:THR:HB	2.34	0.56
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.56
1:D:338:ILE:HG21	1:D:348:MLY:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:677:PRO:HB2	1:D:678:ASN:ND2	2.20	0.56
1:D:823:PHE:CE1	2:E:156:VAL:HG12	2.40	0.56
2:E:163:ALA:O	2:K:21:GLU:CA	2.53	0.56
1:J:217:THR:HG22	1:J:218:LEU:O	2.05	0.56
1:J:634:GLY:N	4:W:25:ASP:O	2.31	0.56
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	0.56
1:J:818:TYR:CZ	2:K:127:ARG:NH2	2.49	0.56
1:M:715:VAL:HG11	1:M:720:PHE:HD1	1.68	0.56
1:P:715:VAL:CG2	1:P:772:LEU:HD21	2.35	0.56
4:1:205:GLU:CD	4:Y:287:ILE:O	2.48	0.56
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.88	0.56
1:D:630:ALA:CA	4:9:25:ASP:OD2	2.53	0.56
1:D:733:PRO:CB	1:D:737:PHE:HE1	2.19	0.56
1:D:797:PHE:HE1	3:F:146:ILE:CA	1.86	0.56
1:G:116:TYR:CE2	1:G:154:HIS:CD2	2.94	0.56
1:G:795:ARG:NE	3:I:116:GLU:OE2	2.39	0.56
1:G:795:ARG:N	3:I:118:MET:CE	2.69	0.56
1:G:831:TRP:NE1	2:H:67:MET:CB	2.35	0.56
1:J:93:MET:SD	1:J:716:LEU:N	2.79	0.56
1:J:295:MLY:CG	1:J:332:MET:HE2	2.36	0.56
1:J:567:LYS:NZ	4:Y:92:ASN:ND2	2.36	0.56
1:J:630:ALA:CA	4:W:25:ASP:OD2	2.53	0.56
1:M:552:ASN:ND2	4:2:47:MET:C	2.54	0.56
1:M:640:LYS:C	4:Z:23:GLY:C	2.74	0.56
1:M:733:PRO:CB	1:M:737:PHE:HE1	2.19	0.56
1:P:99:GLU:OE2	1:P:696:ARG:NH2	2.30	0.56
1:P:135:TYR:N	1:P:135:TYR:HD1	2.04	0.56
1:P:541:MET:HG2	4:1:345:ILE:CG2	2.35	0.56
1:P:677:PRO:HB2	1:P:678:ASN:ND2	2.20	0.56
1:P:831:TRP:HZ3	2:Q:34:ILE:HG21	1.68	0.56
4:X:365:ALA:HB3	4:X:369:ILE:HB	1.88	0.56
1:A:505:MLY:HB3	1:A:762:HIS:HD2	0.41	0.56
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	0.56
1:A:733:PRO:CA	1:A:737:PHE:HE1	2.19	0.56
1:D:7:MET:HE3	1:D:14:ALA:CB	2.36	0.56
1:D:295:MLY:CG	1:D:332:MET:HE2	2.36	0.56
1:G:22:LYS:HA	1:G:25:ILE:HB	1.87	0.56
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.56
1:G:733:PRO:CB	1:G:737:PHE:HE1	2.19	0.56
1:G:733:PRO:CA	1:G:737:PHE:HE1	2.19	0.56
1:G:783:LEU:HA	1:G:786:ILE:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.56
1:J:302:MET:HG2	1:J:303:LEU:HD13	1.87	0.56
1:J:643:GLY:HA2	4:W:24:ASP:OD1	2.04	0.56
1:J:839:MLY:HH21	2:K:158:THR:HG22	1.88	0.56
1:M:109:ARG:O	1:M:114:MET:N	2.37	0.56
1:M:630:ALA:CA	4:Z:25:ASP:OD2	2.53	0.56
1:M:797:PHE:CE2	3:O:126:LEU:CD1	2.89	0.56
1:P:220:ASP:O	1:P:224:SER:N	2.27	0.56
1:P:322:VAL:HG11	1:P:325:ILE:HD11	1.86	0.56
4:V:291:LYS:HD2	4:X:243:PRO:HB2	1.87	0.56
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	0.56
1:A:22:LYS:HA	1:A:25:ILE:HB	1.88	0.56
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	0.56
1:D:642:LYS:CA	4:9:22:ALA:C	2.71	0.56
1:D:723:ARG:HE	1:D:779:ARG:HG3	1.71	0.56
1:G:22:LYS:O	1:G:26:GLU:HG3	2.06	0.56
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.56
1:J:206:LYS:HB3	1:J:217:THR:OG1	2.06	0.56
1:J:411:GLU:H	4:W:333:PRO:HG2	1.70	0.56
1:J:829:TRP:CD2	2:K:87:LYS:NZ	2.74	0.56
1:M:82:PRO:HD2	1:M:85:TYR:CD2	2.40	0.56
1:M:116:TYR:CE2	1:M:154:HIS:CD2	2.94	0.56
1:P:7:MET:HE3	1:P:14:ALA:CB	2.36	0.56
1:P:529:PRO:CG	4:1:353:GLN:OE1	2.54	0.56
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.88	0.56
1:A:135:TYR:N	1:A:135:TYR:HD1	2.04	0.56
1:D:546:THR:HG21	1:D:548:THR:HB	1.88	0.56
1:D:732:ILE:HD13	1:D:782:MLY:CH2	2.35	0.56
1:D:747:LEU:HD22	1:D:782:MLY:HH11	1.88	0.56
1:G:84:MLY:NZ	1:G:724:TYR:CE2	2.67	0.56
1:G:568:PRO:HG3	1:G:578:HIS:H	1.69	0.56
1:G:792:ALA:HB1	3:I:42:THR:HA	1.78	0.56
1:G:797:PHE:CZ	3:I:146:ILE:HD11	2.28	0.56
1:G:815:CYS:SG	2:H:92:ASP:OD1	2.64	0.56
1:J:541:MET:SD	4:W:346:LEU:O	2.48	0.56
1:J:733:PRO:CA	1:J:737:PHE:HE1	2.19	0.56
1:P:32:PHE:CG	1:P:83:PRO:HD3	2.41	0.56
1:P:295:MLY:CG	1:P:332:MET:HE2	2.36	0.56
1:P:406:VAL:HG12	1:P:407:GLY:H	1.71	0.56
1:P:537:GLU:HB3	1:P:648:THR:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:568:PRO:HG3	1:P:578:HIS:H	1.69	0.56
1:P:733:PRO:CB	1:P:737:PHE:HE1	2.19	0.56
1:P:819:ASN:ND2	2:Q:92:ASP:N	2.54	0.56
1:A:149:GLN:CG	1:A:716:LEU:HD23	2.35	0.56
1:A:290:GLN:HG2	1:A:331:LEU:HA	1.87	0.56
1:A:752:ASP:OD2	1:A:782:MLY:HG2	2.05	0.56
1:D:116:TYR:CE2	1:D:154:HIS:CD2	2.94	0.56
1:D:322:VAL:HG11	1:D:325:ILE:HD11	1.86	0.56
1:D:406:VAL:HG12	1:D:407:GLY:H	1.71	0.56
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	0.56
1:D:631:GLU:C	4:9:25:ASP:HB2	2.31	0.56
1:D:814:PHE:HA	2:E:127:ARG:NH1	2.20	0.56
2:E:144:VAL:HG12	2:E:153:ILE:HD11	1.75	0.56
1:G:797:PHE:CE2	3:I:126:LEU:HD13	2.41	0.56
1:J:338:ILE:HG21	1:J:348:MLY:HB3	1.87	0.56
1:J:733:PRO:CB	1:J:737:PHE:HE1	2.19	0.56
1:M:135:TYR:N	1:M:135:TYR:HD1	2.04	0.56
1:M:546:THR:HG21	1:M:548:THR:HB	1.88	0.56
1:P:559:LEU:C	1:P:559:LEU:HD23	2.31	0.56
4:1:202:THR:CA	4:Y:286:ASP:OD1	2.52	0.56
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	1.88	0.56
1:A:32:PHE:CG	1:A:83:PRO:HD3	2.41	0.56
1:D:82:PRO:HD2	1:D:85:TYR:CD2	2.40	0.56
1:D:612:GLN:HE22	1:D:627:GLY:HA2	1.66	0.56
1:D:649:VAL:HA	1:D:649:VAL:HG23	1.83	0.56
1:D:800:ARG:CD	3:F:149:VAL:O	2.52	0.56
1:D:823:PHE:CE1	2:E:156:VAL:CG1	2.88	0.56
3:F:102:VAL:HG23	3:F:139:TYR:CD1	2.39	0.56
1:G:220:ASP:O	1:G:224:SER:N	2.28	0.56
3:I:46:ILE:O	3:I:50:LEU:CG	2.47	0.56
1:J:82:PRO:HD2	1:J:85:TYR:CD2	2.40	0.56
1:J:84:MLY:HH12	1:J:715:VAL:HG11	1.87	0.56
1:J:322:VAL:HG11	1:J:325:ILE:HD11	1.86	0.56
1:J:559:LEU:HD23	1:J:559:LEU:C	2.31	0.56
1:J:813:ILE:HG23	2:K:128:PHE:CE1	2.41	0.56
1:M:642:LYS:HG2	4:Z:21:PHE:C	2.30	0.56
1:M:795:ARG:NE	3:O:116:GLU:CG	2.63	0.56
3:O:102:VAL:HG23	3:O:139:TYR:CD1	2.39	0.56
1:P:725:ARG:NH1	3:R:89:GLU:CG	2.65	0.56
1:P:733:PRO:CA	1:P:737:PHE:HE1	2.19	0.56
1:P:829:TRP:NE1	2:Q:70:GLU:OE2	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:365:ALA:HB3	4:1:369:ILE:HB	1.88	0.56
4:X:291:LYS:CG	4:Z:243:PRO:C	2.74	0.56
1:A:530:MET:CB	4:8:354:GLN:HG3	2.36	0.55
1:A:537:GLU:HB3	1:A:648:THR:CB	2.36	0.55
1:A:546:THR:HG21	1:A:548:THR:HB	1.88	0.55
1:A:707:CYS:SG	1:A:714:ARG:CD	2.92	0.55
1:D:206:LYS:HB3	1:D:217:THR:OG1	2.06	0.55
1:D:649:VAL:HA	1:D:649:VAL:HG22	1.80	0.55
1:D:795:ARG:HB2	3:F:35:ARG:NH1	2.20	0.55
1:G:338:ILE:HG21	1:G:348:MLY:HB3	1.87	0.55
1:G:435:GLU:O	1:G:438:PHE:HB3	2.06	0.55
1:G:799:MET:SD	3:I:32:ASP:OD2	2.64	0.55
1:G:819:ASN:ND2	2:H:91:ALA:C	2.62	0.55
1:G:823:PHE:HE1	2:H:160:GLY:HA2	1.70	0.55
1:J:135:TYR:N	1:J:135:TYR:HD1	2.04	0.55
1:J:435:GLU:O	1:J:438:PHE:HB3	2.06	0.55
1:M:32:PHE:CG	1:M:83:PRO:HD3	2.42	0.55
1:M:529:PRO:CG	4:Z:353:GLN:OE1	2.54	0.55
1:M:638:GLY:CA	4:Z:345:ILE:H	2.18	0.55
1:M:804:ARG:HG2	1:M:808:GLU:HG2	1.88	0.55
1:M:813:ILE:HG22	2:N:128:PHE:HZ	1.46	0.55
1:P:302:MET:HG2	1:P:303:LEU:HD13	1.87	0.55
1:P:546:THR:HG21	4:3:47:MET:N	2.21	0.55
1:P:795:ARG:HG2	3:R:118:MET:HE1	0.61	0.55
1:P:803:TYR:CE1	1:P:807:VAL:HG22	2.41	0.55
1:P:817:GLN:NE2	2:Q:128:PHE:CE1	2.73	0.55
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.55
4:V:365:ALA:HB3	4:V:369:ILE:HB	1.88	0.55
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.88	0.55
1:A:22:LYS:O	1:A:26:GLU:HG3	2.06	0.55
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.55
1:A:418:THR:HG22	1:A:419:VAL:H	1.69	0.55
1:A:529:PRO:CG	4:8:353:GLN:OE1	2.53	0.55
1:A:640:LYS:C	4:8:23:GLY:C	2.74	0.55
1:D:13:ALA:C	1:D:15:PRO:HD2	2.31	0.55
1:D:217:THR:HG22	1:D:218:LEU:O	2.06	0.55
1:D:559:LEU:HD23	1:D:559:LEU:C	2.31	0.55
1:D:712:PRO:CG	1:D:771:LEU:HD13	2.36	0.55
1:D:732:ILE:HD12	1:D:782:MLY:CH1	2.27	0.55
1:G:406:VAL:HG12	1:G:407:GLY:H	1.71	0.55
3:I:35:ARG:HA	3:I:39:GLN:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:13:ALA:C	1:J:15:PRO:HD2	2.31	0.55
1:J:546:THR:HG21	1:J:548:THR:HB	1.88	0.55
1:J:817:GLN:HB3	2:K:127:ARG:HD2	1.80	0.55
1:J:821:ARG:HH22	2:K:127:ARG:CG	2.14	0.55
1:J:834:LEU:HD12	2:K:51:PHE:CE1	2.40	0.55
1:M:206:LYS:HB3	1:M:217:THR:OG1	2.06	0.55
1:M:552:ASN:ND2	4:2:47:MET:CG	2.69	0.55
1:P:116:TYR:CE2	1:P:154:HIS:CD2	2.94	0.55
1:P:206:LYS:HB3	1:P:217:THR:OG1	2.06	0.55
1:P:649:VAL:CG1	1:P:649:VAL:HA	2.35	0.55
4:2:365:ALA:HB3	4:2:369:ILE:HB	1.88	0.55
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.88	0.55
1:A:629:GLU:O	1:A:643:GLY:HA3	2.06	0.55
1:A:642:LYS:HG2	4:8:21:PHE:C	2.30	0.55
1:A:649:VAL:HA	1:A:649:VAL:HG23	1.83	0.55
1:D:32:PHE:CG	1:D:83:PRO:HD3	2.41	0.55
1:D:210:GLN:O	1:D:211:SER:OG	2.16	0.55
1:D:220:ASP:O	1:D:224:SER:N	2.27	0.55
1:D:438:PHE:HA	1:D:441:MET:HE3	1.88	0.55
1:G:646:PHE:CE2	1:G:652:LEU:CG	2.90	0.55
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.55
1:J:529:PRO:CB	4:W:354:GLN:HA	2.36	0.55
1:J:629:GLU:O	1:J:643:GLY:HA3	2.06	0.55
1:J:677:PRO:HB2	1:J:678:ASN:ND2	2.20	0.55
1:M:295:MLY:CG	1:M:332:MET:HE2	2.36	0.55
1:M:733:PRO:CA	1:M:737:PHE:HE1	2.19	0.55
1:M:794:CYS:O	1:M:798:LEU:N	2.37	0.55
1:P:631:GLU:C	4:1:25:ASP:HB2	2.32	0.55
1:P:640:LYS:C	4:1:23:GLY:C	2.74	0.55
1:P:829:TRP:CH2	2:Q:83:MET:CE	2.69	0.55
4:4:324:THR:HG21	4:6:244:ASP:N	1.80	0.55
4:Z:365:ALA:HB3	4:Z:369:ILE:HB	1.88	0.55
1:A:206:LYS:HB3	1:A:217:THR:OG1	2.06	0.55
1:D:345:ALA:O	1:D:349:THR:N	2.40	0.55
1:D:629:GLU:O	1:D:643:GLY:HA3	2.06	0.55
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	0.55
1:G:22:LYS:O	1:G:26:GLU:N	2.30	0.55
1:G:290:GLN:HG2	1:G:331:LEU:HA	1.87	0.55
1:J:93:MET:HE2	1:J:764:MLY:HD3	1.88	0.55
1:J:109:ARG:O	1:J:114:MET:N	2.37	0.55
1:J:546:THR:HB	1:J:549:SER:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:630:ALA:HA	4:W:25:ASP:OD2	2.07	0.55
1:J:642:LYS:HG2	4:W:21:PHE:C	2.29	0.55
1:J:649:VAL:HA	1:J:649:VAL:HG22	1.80	0.55
3:L:123:VAL:O	3:L:127:MET:HG2	2.07	0.55
1:M:22:LYS:O	1:M:26:GLU:HG3	2.07	0.55
1:M:438:PHE:HA	1:M:441:MET:HE3	1.88	0.55
1:M:529:PRO:CB	4:Z:354:GLN:HA	2.36	0.55
1:M:559:LEU:HD23	1:M:559:LEU:C	2.31	0.55
1:M:631:GLU:C	4:Z:25:ASP:HB2	2.32	0.55
1:M:727:LEU:HD21	1:M:778:MET:CB	2.36	0.55
1:M:834:LEU:CD2	2:N:34:ILE:CD1	2.85	0.55
2:N:156:VAL:HA	2:N:159:HIS:O	2.07	0.55
1:P:217:THR:HG22	1:P:218:LEU:O	2.05	0.55
1:P:638:GLY:CA	4:1:345:ILE:H	2.18	0.55
1:P:642:LYS:HG2	4:1:21:PHE:C	2.29	0.55
1:P:795:ARG:HB3	3:R:35:ARG:CZ	2.36	0.55
4:2:287:ILE:HG21	4:4:203:THR:N	2.19	0.55
4:2:324:THR:OG1	4:4:244:ASP:CB	2.53	0.55
4:8:365:ALA:HB3	4:8:369:ILE:HB	1.88	0.55
4:X:324:THR:HB	4:Z:247:VAL:N	2.22	0.55
1:A:559:LEU:HD23	1:A:559:LEU:C	2.31	0.55
1:A:630:ALA:CA	4:8:25:ASP:OD2	2.53	0.55
1:A:631:GLU:C	4:8:25:ASP:HB2	2.32	0.55
1:A:649:VAL:CG1	1:A:649:VAL:HA	2.35	0.55
1:D:435:GLU:O	1:D:438:PHE:HB3	2.06	0.55
1:D:507:GLY:CA	1:D:762:HIS:CG	2.84	0.55
1:D:529:PRO:CB	4:9:354:GLN:HA	2.36	0.55
1:D:733:PRO:CA	1:D:737:PHE:HE1	2.19	0.55
3:F:123:VAL:O	3:F:127:MET:HG2	2.07	0.55
1:G:345:ALA:O	1:G:349:THR:N	2.40	0.55
1:G:409:GLY:HA3	4:V:333:PRO:CD	2.35	0.55
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	0.55
1:G:629:GLU:O	1:G:643:GLY:HA3	2.06	0.55
1:J:22:LYS:O	1:J:26:GLU:HG3	2.07	0.55
1:J:32:PHE:CG	1:J:83:PRO:HD3	2.41	0.55
1:J:99:GLU:OE2	1:J:696:ARG:NH2	2.31	0.55
1:J:529:PRO:CG	4:W:353:GLN:OE1	2.54	0.55
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	0.55
1:J:579:PHE:HE1	1:J:581:LEU:HD13	1.72	0.55
1:J:604:ASN:OD1	1:J:607:VAL:HG23	2.06	0.55
1:M:13:ALA:C	1:M:15:PRO:HD2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:418:THR:HG22	1:M:419:VAL:H	1.69	0.55
1:M:629:GLU:O	1:M:643:GLY:HA3	2.06	0.55
1:M:783:LEU:HA	1:M:786:ILE:CD1	2.33	0.55
1:M:817:GLN:CG	2:N:127:ARG:HD2	2.36	0.55
1:P:290:GLN:HG2	1:P:331:LEU:HA	1.87	0.55
1:P:529:PRO:CB	4:1:354:GLN:HA	2.36	0.55
4:1:205:GLU:OE1	4:Y:287:ILE:C	2.49	0.55
1:A:345:ALA:O	1:A:349:THR:N	2.40	0.55
1:D:290:GLN:NE2	1:D:334:THR:OG1	2.40	0.55
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	0.55
1:D:725:ARG:HG3	1:D:733:PRO:CA	2.36	0.55
1:G:302:MET:HG2	1:G:303:LEU:HD13	1.88	0.55
1:G:635:GLY:HA3	4:V:334:GLU:CG	2.30	0.55
1:G:640:LYS:C	4:V:23:GLY:C	2.75	0.55
1:G:754:ASP:HB3	1:G:757:GLN:HG2	1.72	0.55
1:J:97:LEU:HD22	1:J:712:PRO:HB2	1.88	0.55
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.94	0.55
1:J:438:PHE:HA	1:J:441:MET:HE3	1.88	0.55
1:M:406:VAL:HG12	1:M:407:GLY:H	1.71	0.55
1:M:530:MET:CB	4:Z:354:GLN:HG3	2.37	0.55
1:M:804:ARG:HB3	1:M:808:GLU:HG3	1.88	0.55
1:P:22:LYS:O	1:P:26:GLU:HG3	2.07	0.55
1:P:723:ARG:NE	1:P:779:ARG:CZ	2.70	0.55
1:P:767:PHE:CE2	1:P:772:LEU:HD11	2.42	0.55
4:2:287:ILE:HB	4:4:203:THR:CB	2.35	0.55
4:3:365:ALA:HB3	4:3:369:ILE:HB	1.88	0.55
1:A:93:MET:HE1	1:A:716:LEU:H	1.67	0.55
1:A:302:MET:HG2	1:A:303:LEU:HD13	1.88	0.55
1:D:546:THR:HB	1:D:549:SER:H	1.71	0.55
1:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	0.55
1:G:754:ASP:O	1:G:776:GLU:OE2	2.25	0.55
1:J:290:GLN:NE2	1:J:334:THR:OG1	2.40	0.55
1:J:345:ALA:O	1:J:349:THR:N	2.40	0.55
1:J:561:LYS:CE	4:Y:48:GLY:CA	2.82	0.55
1:J:638:GLY:CA	4:W:345:ILE:H	2.18	0.55
1:M:338:ILE:HG21	1:M:348:MLY:HB3	1.87	0.55
1:M:435:GLU:O	1:M:438:PHE:HB3	2.06	0.55
1:M:537:GLU:HB3	1:M:648:THR:CB	2.37	0.55
1:M:646:PHE:CE2	1:M:652:LEU:CG	2.90	0.55
3:O:123:VAL:O	3:O:127:MET:HG2	2.07	0.55
1:P:13:ALA:C	1:P:15:PRO:HD2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:290:GLN:NE2	1:P:334:THR:OG1	2.40	0.55
1:P:438:PHE:HA	1:P:441:MET:HE3	1.88	0.55
1:P:604:ASN:OD1	1:P:607:VAL:HG23	2.06	0.55
3:R:49:ILE:CA	3:R:52:ASN:ND2	2.54	0.55
1:A:82:PRO:HD2	1:A:85:TYR:HD2	1.72	0.55
1:A:338:ILE:HG21	1:A:348:MLY:HB3	1.87	0.55
1:A:438:PHE:HA	1:A:441:MET:HE3	1.88	0.55
1:A:529:PRO:CB	4:8:354:GLN:HA	2.36	0.55
1:A:646:PHE:CE2	1:A:652:LEU:CG	2.90	0.55
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	0.55
1:A:752:ASP:CB	1:A:782:MLY:HD3	2.36	0.55
1:A:765:VAL:HG12	1:A:766:PHE:N	2.22	0.55
1:D:135:TYR:HD2	1:D:191:ARG:HG2	1.72	0.55
1:G:7:MET:HE3	1:G:14:ALA:CB	2.36	0.55
1:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.55
1:G:97:LEU:HD21	1:G:712:PRO:CB	2.26	0.55
1:G:438:PHE:HA	1:G:441:MET:HE3	1.88	0.55
1:G:529:PRO:CG	4:V:353:GLN:OE1	2.54	0.55
1:G:530:MET:CB	4:V:354:GLN:HG3	2.37	0.55
1:G:752:ASP:CB	1:G:783:LEU:HB2	2.37	0.55
1:J:94:MET:C	1:J:713:SER:CB	2.61	0.55
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.55
1:J:646:PHE:CE2	1:J:652:LEU:CG	2.90	0.55
1:M:345:ALA:O	1:M:349:THR:N	2.40	0.55
1:M:411:GLU:H	4:Z:333:PRO:HG2	1.71	0.55
1:P:579:PHE:HE1	1:P:581:LEU:HD13	1.72	0.55
1:P:646:PHE:CE2	1:P:652:LEU:CG	2.90	0.55
1:P:715:VAL:HG23	1:P:772:LEU:HD21	1.88	0.55
1:P:739:ASP:CB	1:P:742:LYS:CB	2.81	0.55
4:2:244:ASP:CG	4:Z:322:PRO:HB3	2.32	0.55
4:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.88	0.55
1:A:604:ASN:OD1	1:A:607:VAL:HG23	2.06	0.55
1:D:604:ASN:OD1	1:D:607:VAL:HG23	2.06	0.55
1:D:630:ALA:HA	4:9:25:ASP:OD2	2.07	0.55
1:D:836:PHE:CZ	2:E:159:HIS:C	2.85	0.55
1:G:217:THR:HG22	1:G:218:LEU:O	2.06	0.55
1:G:604:ASN:OD1	1:G:607:VAL:HG23	2.06	0.55
1:G:631:GLU:C	4:V:25:ASP:HB2	2.31	0.55
1:G:725:ARG:HG3	1:G:733:PRO:CA	2.36	0.55
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	0.55
1:J:725:ARG:HG3	1:J:733:PRO:CA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:788:THR:O	3:L:42:THR:CG2	2.48	0.55
3:L:35:ARG:HA	3:L:39:GLN:O	2.07	0.55
1:M:604:ASN:OD1	1:M:607:VAL:HG23	2.06	0.55
1:M:642:LYS:CA	4:Z:22:ALA:C	2.70	0.55
1:M:803:TYR:CG	1:M:807:VAL:HG21	2.41	0.55
1:P:107:MLY:CB	1:P:686:MET:HE2	2.32	0.55
1:P:435:GLU:O	1:P:438:PHE:HB3	2.06	0.55
1:P:546:THR:HB	1:P:549:SER:H	1.71	0.55
1:P:834:LEU:CD2	2:Q:34:ILE:HD11	2.36	0.55
1:A:295:MLY:CG	1:A:332:MET:HE2	2.36	0.55
1:A:505:MLY:HG3	1:A:741:LYS:HZ3	1.60	0.55
1:A:553:MLY:HG3	4:V:44:MET:O	2.07	0.55
1:A:579:PHE:HE1	1:A:581:LEU:HD13	1.72	0.55
1:D:22:LYS:HA	1:D:25:ILE:HB	1.88	0.55
1:D:290:GLN:HG2	1:D:331:LEU:HA	1.87	0.55
1:D:305:ILE:HG22	1:D:312:TYR:CE2	2.43	0.55
1:D:481:ASN:N	1:D:481:ASN:ND2	2.51	0.55
1:D:640:LYS:C	4:9:23:GLY:C	2.74	0.55
1:D:646:PHE:CE2	1:D:652:LEU:CG	2.90	0.55
1:D:723:ARG:CG	1:D:723:ARG:HH11	2.20	0.55
1:D:725:ARG:O	1:D:782:MLY:HH22	2.07	0.55
1:D:814:PHE:HA	2:E:127:ARG:HH11	1.71	0.55
1:G:537:GLU:HB3	1:G:648:THR:CB	2.37	0.55
1:G:759:ALA:O	1:G:766:PHE:N	2.32	0.55
1:G:792:ALA:N	3:I:42:THR:HG22	2.21	0.55
1:J:22:LYS:HA	1:J:25:ILE:HB	1.87	0.55
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	0.55
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	0.55
1:J:97:LEU:HD22	1:J:712:PRO:CB	2.36	0.55
1:J:290:GLN:HG2	1:J:331:LEU:HA	1.87	0.55
1:J:530:MET:CB	4:W:354:GLN:HG3	2.37	0.55
1:M:290:GLN:HG2	1:M:331:LEU:HA	1.87	0.55
1:M:839:MLY:HH13	2:N:159:HIS:CD2	2.42	0.55
1:P:82:PRO:HD2	1:P:85:TYR:HD2	1.72	0.55
1:P:345:ALA:O	1:P:349:THR:N	2.40	0.55
1:P:508:ILE:HG23	1:P:759:ALA:CB	2.32	0.55
1:P:612:GLN:HE22	1:P:627:GLY:HA2	1.66	0.55
1:P:630:ALA:HA	4:1:25:ASP:OD2	2.07	0.55
1:P:767:PHE:CD2	1:P:772:LEU:HD21	2.42	0.55
2:Q:156:VAL:HA	2:Q:159:HIS:O	2.07	0.55
1:A:638:GLY:HA2	4:8:345:ILE:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:22:LYS:O	1:D:26:GLU:HG3	2.07	0.54
1:D:794:CYS:O	1:D:798:LEU:N	2.36	0.54
3:F:35:ARG:HA	3:F:39:GLN:O	2.07	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CE2	2.42	0.54
3:I:102:VAL:HG23	3:I:139:TYR:CD1	2.39	0.54
1:M:302:MET:HG2	1:M:303:LEU:HD13	1.87	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CZ	2.42	0.54
1:M:579:PHE:HE1	1:M:581:LEU:HD13	1.72	0.54
1:M:725:ARG:CZ	3:O:93:VAL:CG2	2.83	0.54
1:P:95:THR:HG23	1:P:770:GLY:CA	2.35	0.54
1:P:295:MLY:CD	1:P:332:MET:HE2	2.37	0.54
1:P:530:MET:CA	4:1:354:GLN:HB3	2.35	0.54
1:P:530:MET:CB	4:1:354:GLN:HG3	2.37	0.54
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.88	0.54
4:W:325:MET:SD	4:Y:244:ASP:HB3	2.43	0.54
1:A:470:PHE:O	1:A:473:ASN:ND2	2.40	0.54
1:A:546:THR:HB	1:A:549:SER:H	1.71	0.54
1:D:508:ILE:HD13	1:D:766:PHE:CG	2.36	0.54
1:D:579:PHE:HE1	1:D:581:LEU:HD13	1.72	0.54
1:G:32:PHE:CG	1:G:83:PRO:HD3	2.41	0.54
1:G:206:LYS:HB3	1:G:217:THR:OG1	2.06	0.54
1:G:546:THR:HG21	1:G:548:THR:HB	1.88	0.54
1:G:579:PHE:HE1	1:G:581:LEU:HD13	1.72	0.54
1:G:638:GLY:HA2	4:V:345:ILE:H	1.72	0.54
1:J:640:LYS:C	4:W:23:GLY:C	2.74	0.54
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	0.54
1:J:819:ASN:CG	2:K:90:GLY:O	2.51	0.54
1:M:95:THR:OG1	1:M:770:GLY:HA2	2.07	0.54
1:M:831:TRP:CZ3	2:N:34:ILE:HD13	2.42	0.54
1:M:839:MLY:CH1	2:N:159:HIS:HD2	2.20	0.54
1:P:22:LYS:HA	1:P:25:ILE:HB	1.88	0.54
1:P:546:THR:HG21	1:P:548:THR:HB	1.88	0.54
4:2:287:ILE:CG2	4:4:202:THR:C	2.69	0.54
1:A:7:MET:HE3	1:A:14:ALA:CB	2.36	0.54
1:A:501:GLU:HB3	1:A:762:HIS:ND1	2.20	0.54
1:D:10:PHE:O	1:D:12:GLU:N	2.41	0.54
1:D:576:GLU:CG	1:D:577:ALA:N	2.44	0.54
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.54
1:G:10:PHE:O	1:G:12:GLU:N	2.41	0.54
1:G:126:VAL:HG13	1:G:675:ILE:HG22	1.90	0.54
1:G:470:PHE:O	1:G:473:ASN:ND2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:649:VAL:CG1	1:J:649:VAL:HA	2.35	0.54
1:J:831:TRP:HH2	2:K:47:LEU:CD2	2.07	0.54
2:K:121:LEU:CA	2:K:128:PHE:CG	2.89	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CE2	2.43	0.54
1:M:649:VAL:CG1	1:M:649:VAL:HA	2.35	0.54
1:M:839:MLY:CH1	2:N:159:HIS:CD2	2.90	0.54
1:P:10:PHE:O	1:P:12:GLU:N	2.41	0.54
1:P:38:VAL:CB	1:P:52:ILE:HD11	2.38	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CE2	2.43	0.54
1:P:829:TRP:CH2	2:Q:87:LYS:CE	2.90	0.54
4:1:299:MET:HE2	4:1:331:ALA:HB2	1.88	0.54
4:3:148:THR:HG21	4:5:45:VAL:HG21	1.89	0.54
4:6:299:MET:HE2	4:6:331:ALA:HB2	1.88	0.54
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.88	0.54
4:V:291:LYS:HD2	4:X:243:PRO:CB	2.38	0.54
4:W:365:ALA:HB3	4:W:369:ILE:HB	1.88	0.54
1:A:290:GLN:NE2	1:A:334:THR:OG1	2.40	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CZ	2.43	0.54
1:A:406:VAL:HG12	1:A:407:GLY:H	1.71	0.54
1:A:635:GLY:HA3	4:8:334:GLU:CG	2.30	0.54
1:D:506:GLU:CG	1:D:764:MLY:HE3	2.37	0.54
1:G:295:MLY:CD	1:G:332:MET:HE2	2.38	0.54
3:I:123:VAL:O	3:I:127:MET:HG2	2.07	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CE2	2.43	0.54
1:M:135:TYR:HD2	1:M:191:ARG:HG2	1.72	0.54
1:M:290:GLN:NE2	1:M:334:THR:OG1	2.40	0.54
1:M:723:ARG:HH11	1:M:723:ARG:CG	2.20	0.54
1:M:830:PRO:CB	2:N:67:MET:SD	2.96	0.54
1:M:834:LEU:CD2	2:N:34:ILE:HG12	2.38	0.54
2:N:139:ALA:C	2:N:141:PRO:HD3	2.32	0.54
2:N:149:ASP:CG	2:N:150:TYR:N	2.49	0.54
1:P:792:ALA:CA	3:R:42:THR:HG22	2.22	0.54
2:Q:139:ALA:C	2:Q:141:PRO:HD3	2.33	0.54
1:A:10:PHE:O	1:A:12:GLU:N	2.41	0.54
1:A:732:ILE:HG23	1:A:747:LEU:CD1	1.04	0.54
1:D:78:PHE:HB3	1:D:98:HIS:NE2	2.23	0.54
1:D:126:VAL:HG13	1:D:675:ILE:HG22	1.90	0.54
1:D:638:GLY:CA	4:9:345:ILE:H	2.19	0.54
1:D:831:TRP:HZ2	2:E:47:LEU:HA	1.68	0.54
1:G:78:PHE:HB3	1:G:98:HIS:NE2	2.23	0.54
1:G:553:MLY:HH13	4:X:45:VAL:CG1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:819:ASN:HD21	2:H:91:ALA:C	2.16	0.54
2:K:156:VAL:HA	2:K:159:HIS:O	2.07	0.54
1:M:10:PHE:O	1:M:12:GLU:N	2.40	0.54
1:M:552:ASN:O	4:2:49:GLN:CG	2.52	0.54
1:M:634:GLY:N	4:Z:25:ASP:O	2.31	0.54
1:M:725:ARG:HG3	1:M:733:PRO:CA	2.36	0.54
1:P:502:GLU:HG2	1:P:766:PHE:HZ	1.59	0.54
1:P:629:GLU:O	1:P:643:GLY:HA3	2.06	0.54
3:R:123:VAL:O	3:R:127:MET:HG2	2.07	0.54
4:7:365:ALA:HB3	4:7:369:ILE:HB	1.88	0.54
4:9:365:ALA:HB3	4:9:369:ILE:HB	1.88	0.54
4:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.88	0.54
1:A:295:MLY:CD	1:A:332:MET:HE2	2.37	0.54
1:D:727:LEU:HB2	1:D:782:MLY:NZ	2.05	0.54
1:D:765:VAL:HG12	1:D:766:PHE:N	2.22	0.54
1:D:797:PHE:CD1	3:F:146:ILE:HA	2.34	0.54
1:G:135:TYR:HD2	1:G:191:ARG:HG2	1.72	0.54
1:G:530:MET:CA	4:V:354:GLN:HB3	2.35	0.54
1:G:723:ARG:HH11	1:G:723:ARG:CG	2.20	0.54
1:G:818:TYR:CB	2:H:90:GLY:HA3	2.35	0.54
1:G:834:LEU:HD21	2:H:34:ILE:HG12	1.90	0.54
2:H:117:LEU:CB	2:H:147:ASN:ND2	2.35	0.54
3:I:52:ASN:HB2	3:I:53:PRO:CD	2.28	0.54
1:J:723:ARG:CG	1:J:723:ARG:HH11	2.20	0.54
1:M:629:GLU:CA	1:M:643:GLY:C	2.73	0.54
1:P:723:ARG:HH11	1:P:723:ARG:CG	2.20	0.54
1:P:765:VAL:HG12	1:P:766:PHE:N	2.22	0.54
1:P:817:GLN:NE2	2:Q:128:PHE:CD1	2.75	0.54
1:A:630:ALA:HA	4:8:25:ASP:OD2	2.07	0.54
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	0.54
1:G:295:MLY:CG	1:G:332:MET:HE2	2.36	0.54
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.54
1:J:638:GLY:HA2	4:W:345:ILE:H	1.72	0.54
1:M:7:MET:HE3	1:M:14:ALA:CB	2.36	0.54
1:M:82:PRO:HD2	1:M:85:TYR:HD2	1.72	0.54
1:M:103:LEU:HD12	1:M:103:LEU:C	2.33	0.54
1:M:126:VAL:HG13	1:M:675:ILE:HG22	1.90	0.54
1:M:295:MLY:CD	1:M:332:MET:HE2	2.37	0.54
1:M:642:LYS:CG	4:Z:22:ALA:CA	2.80	0.54
1:M:725:ARG:HH21	3:O:89:GLU:HB3	1.72	0.54
1:P:134:VAL:C	1:P:136:ASN:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:538:GLU:HG3	4:1:352:PHE:CA	2.38	0.54
1:P:804:ARG:HG2	1:P:808:GLU:HA	1.89	0.54
4:6:365:ALA:HB3	4:6:369:ILE:HB	1.88	0.54
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.88	0.54
1:A:643:GLY:N	4:8:23:GLY:C	2.55	0.54
1:A:723:ARG:CG	1:A:723:ARG:HH11	2.20	0.54
1:A:791:GLN:O	1:A:794:CYS:HB2	2.08	0.54
1:D:103:LEU:C	1:D:103:LEU:HD12	2.33	0.54
1:D:404:PRO:CG	1:D:417:GLU:HG3	2.38	0.54
1:D:571:ALA:O	1:D:572:LYS:CB	2.56	0.54
1:D:638:GLY:HA2	4:9:345:ILE:H	1.72	0.54
1:G:791:GLN:O	1:G:794:CYS:HB2	2.08	0.54
1:G:801:VAL:HG21	3:I:126:LEU:HD21	1.88	0.54
2:H:146:GLY:O	2:H:147:ASN:ND2	2.41	0.54
1:J:493:HIS:ND1	1:J:514:ASP:OD2	2.41	0.54
1:J:649:VAL:HA	1:J:649:VAL:HG23	1.83	0.54
1:J:791:GLN:O	1:J:794:CYS:HB2	2.08	0.54
2:K:139:ALA:C	2:K:141:PRO:HD3	2.32	0.54
2:K:146:GLY:O	2:K:147:ASN:ND2	2.41	0.54
1:M:493:HIS:ND1	1:M:514:ASP:OD2	2.41	0.54
1:M:630:ALA:HA	4:Z:25:ASP:OD2	2.07	0.54
2:N:146:GLY:O	2:N:147:ASN:ND2	2.41	0.54
1:P:22:LYS:O	1:P:26:GLU:N	2.30	0.54
1:P:78:PHE:HB3	1:P:98:HIS:NE2	2.22	0.54
1:P:103:LEU:C	1:P:103:LEU:HD12	2.33	0.54
1:P:506:GLU:OE2	1:P:763:THR:CA	2.56	0.54
1:P:638:GLY:HA2	4:1:345:ILE:H	1.72	0.54
1:P:723:ARG:HE	1:P:779:ARG:CD	2.21	0.54
2:Q:146:GLY:O	2:Q:147:ASN:ND2	2.41	0.54
3:R:35:ARG:HA	3:R:39:GLN:O	2.07	0.54
4:1:243:PRO:O	4:Y:291:LYS:HE2	2.07	0.54
4:2:287:ILE:HG22	4:4:204:ALA:H	1.69	0.54
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.88	0.54
1:A:571:ALA:O	1:A:572:LYS:CB	2.56	0.54
1:D:135:TYR:HD2	1:D:191:ARG:HD3	1.73	0.54
1:D:295:MLY:CD	1:D:332:MET:HE2	2.37	0.54
1:D:530:MET:CB	4:9:354:GLN:HG3	2.36	0.54
1:D:642:LYS:HA	4:9:22:ALA:C	2.33	0.54
2:E:146:GLY:O	2:E:147:ASN:ND2	2.41	0.54
1:G:404:PRO:CG	1:G:417:GLU:HG3	2.38	0.54
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:765:VAL:HG12	1:G:766:PHE:N	2.22	0.54
1:J:10:PHE:O	1:J:12:GLU:N	2.40	0.54
1:J:135:TYR:HD2	1:J:191:ARG:HG2	1.73	0.54
1:J:834:LEU:HD13	2:K:51:PHE:HE1	1.66	0.54
1:M:765:VAL:HG12	1:M:766:PHE:N	2.22	0.54
1:P:95:THR:CG2	1:P:770:GLY:CA	2.65	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CZ	2.43	0.54
1:A:38:VAL:CB	1:A:52:ILE:HD11	2.38	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:D:493:HIS:ND1	1:D:514:ASP:OD2	2.41	0.54
2:E:156:VAL:HA	2:E:159:HIS:O	2.07	0.54
1:G:93:MET:HG3	1:G:714:ARG:HG3	1.89	0.54
1:G:290:GLN:NE2	1:G:334:THR:OG1	2.40	0.54
1:G:629:GLU:CA	1:G:643:GLY:C	2.73	0.54
1:G:831:TRP:CZ3	2:H:34:ILE:HG21	2.41	0.54
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.54
1:J:126:VAL:HG13	1:J:675:ILE:HG22	1.90	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CZ	2.42	0.54
1:M:38:VAL:CB	1:M:52:ILE:HD11	2.38	0.54
1:M:78:PHE:HB3	1:M:98:HIS:NE2	2.22	0.54
1:M:642:LYS:HA	4:Z:22:ALA:C	2.33	0.54
1:M:791:GLN:O	1:M:794:CYS:HB2	2.08	0.54
3:O:35:ARG:HA	3:O:39:GLN:O	2.07	0.54
1:P:404:PRO:CG	1:P:417:GLU:HG3	2.38	0.54
1:P:794:CYS:O	1:P:798:LEU:N	2.37	0.54
1:P:796:GLY:CA	3:R:35:ARG:NE	2.70	0.54
4:2:45:VAL:HG23	4:Z:148:THR:OG1	2.07	0.54
4:2:202:THR:HA	4:Z:287:ILE:HG13	1.90	0.54
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.88	0.54
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.88	0.54
1:A:51:THR:C	1:A:62:VAL:HG13	2.32	0.53
1:D:32:PHE:CD1	1:D:83:PRO:HD3	2.43	0.53
1:D:305:ILE:HG22	1:D:312:TYR:CZ	2.43	0.53
1:D:538:GLU:HG3	4:9:352:PHE:CA	2.38	0.53
1:D:755:HIS:HA	1:D:758:TYR:HE1	1.64	0.53
3:F:92:ARG:HA	3:F:139:TYR:OH	2.09	0.53
1:G:38:VAL:CB	1:G:52:ILE:HD11	2.38	0.53
1:J:470:PHE:O	1:J:473:ASN:ND2	2.40	0.53
1:J:530:MET:HA	4:W:354:GLN:CD	2.11	0.53
1:M:95:THR:HG21	1:M:773:GLY:HA3	1.90	0.53
1:M:733:PRO:O	1:M:737:PHE:CE1	2.53	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:733:PRO:O	1:P:737:PHE:CE1	2.53	0.53
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	0.53
1:A:93:MET:O	1:A:713:SER:HB3	2.07	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HG2	1.72	0.53
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.53
1:A:733:PRO:O	1:A:737:PHE:CE1	2.53	0.53
1:D:82:PRO:HD2	1:D:85:TYR:HD2	1.72	0.53
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	0.53
1:D:506:GLU:CG	1:D:764:MLY:CE	2.86	0.53
1:G:571:ALA:O	1:G:572:LYS:CB	2.56	0.53
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.53
2:H:156:VAL:HA	2:H:159:HIS:O	2.07	0.53
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	0.53
1:M:154:HIS:CE1	1:M:156:PHE:HD2	2.26	0.53
1:P:493:HIS:ND1	1:P:514:ASP:OD2	2.41	0.53
1:P:642:LYS:HA	4:1:22:ALA:C	2.33	0.53
1:A:202:SER:HA	1:A:207:LYS:HE3	1.72	0.53
1:A:305:ILE:HG22	1:A:312:TYR:CE2	2.43	0.53
1:A:553:MLY:O	4:V:48:GLY:CA	2.57	0.53
1:D:38:VAL:CB	1:D:52:ILE:HD11	2.38	0.53
1:G:51:THR:C	1:G:62:VAL:HG13	2.32	0.53
1:G:154:HIS:CE1	1:G:156:PHE:HD2	2.27	0.53
1:J:32:PHE:CD1	1:J:83:PRO:HD3	2.43	0.53
1:J:538:GLU:HG3	4:W:352:PHE:CA	2.38	0.53
1:J:640:LYS:C	1:J:645:SER:HG	2.15	0.53
1:M:508:ILE:HD11	1:M:766:PHE:CD1	2.43	0.53
1:M:817:GLN:CG	2:N:128:PHE:CE1	2.91	0.53
3:O:92:ARG:HA	3:O:139:TYR:OH	2.08	0.53
1:P:126:VAL:HG13	1:P:675:ILE:HG22	1.90	0.53
1:P:135:TYR:HD2	1:P:191:ARG:HG2	1.72	0.53
1:P:503:TYR:HE1	1:P:766:PHE:CD2	2.26	0.53
1:P:791:GLN:O	1:P:794:CYS:HB2	2.08	0.53
4:2:244:ASP:HB3	4:Z:322:PRO:HB2	1.89	0.53
1:D:584:TYR:CD1	1:D:585:ALA:N	2.77	0.53
1:D:795:ARG:HB3	3:F:35:ARG:HH22	1.71	0.53
1:G:493:HIS:ND1	1:G:514:ASP:OD2	2.41	0.53
2:H:114:LYS:O	2:H:147:ASN:ND2	2.41	0.53
3:L:92:ARG:HA	3:L:139:TYR:OH	2.08	0.53
1:M:579:PHE:CD2	1:M:592:ILE:HD11	2.40	0.53
1:P:218:LEU:N	1:P:221:GLN:HG2	2.23	0.53
1:P:277:PHE:CG	1:P:278:GLN:N	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:642:LYS:CG	4:1:22:ALA:HA	2.37	0.53
1:P:733:PRO:CB	3:R:85:GLU:CG	2.87	0.53
4:4:324:THR:H	4:6:244:ASP:HA	1.73	0.53
1:D:218:LEU:N	1:D:221:GLN:HG2	2.24	0.53
1:D:506:GLU:HG3	1:D:764:MLY:CE	2.39	0.53
1:G:32:PHE:CD1	1:G:83:PRO:HD3	2.44	0.53
1:G:90:ASP:OD2	1:G:764:MLY:HH12	2.02	0.53
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.53
1:G:546:THR:HB	1:G:549:SER:H	1.71	0.53
1:G:556:ASP:OD2	4:X:44:MET:HG3	2.08	0.53
2:H:114:LYS:N	2:H:146:GLY:O	2.40	0.53
1:J:51:THR:C	1:J:62:VAL:HG13	2.33	0.53
1:J:561:LYS:HE2	4:Y:48:GLY:HA3	1.88	0.53
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.88	0.53
1:M:32:PHE:CD1	1:M:83:PRO:HD3	2.44	0.53
1:M:553:MLY:CD	4:2:43:VAL:HG21	2.38	0.53
1:M:571:ALA:O	1:M:572:LYS:CB	2.56	0.53
1:M:638:GLY:HA2	4:Z:345:ILE:H	1.72	0.53
1:M:661:MET:O	1:M:665:ARG:HG3	2.09	0.53
1:P:51:THR:C	1:P:62:VAL:HG13	2.33	0.53
1:P:210:GLN:C	1:P:211:SER:HG	2.13	0.53
1:P:251:ARG:HB2	1:P:264:ASP:HB2	1.91	0.53
2:Q:114:LYS:O	2:Q:147:ASN:ND2	2.42	0.53
4:3:322:PRO:C	4:5:244:ASP:HB2	2.33	0.53
4:X:185:LEU:HD23	4:X:306:TYR:OH	2.09	0.53
1:A:98:HIS:HB3	1:A:100:PRO:CD	2.25	0.53
1:A:584:TYR:CD1	1:A:585:ALA:N	2.77	0.53
1:A:725:ARG:HG3	1:A:733:PRO:CA	2.36	0.53
1:D:529:PRO:HB2	4:9:354:GLN:HA	1.91	0.53
1:G:95:THR:N	1:G:713:SER:HB3	2.23	0.53
1:G:649:VAL:CG1	1:G:649:VAL:HA	2.34	0.53
1:J:295:MLY:CD	1:J:332:MET:HE2	2.37	0.53
1:J:661:MET:O	1:J:665:ARG:HG3	2.09	0.53
1:M:538:GLU:HG3	4:Z:352:PHE:CA	2.38	0.53
1:M:795:ARG:HE	3:O:116:GLU:HB3	0.47	0.53
1:M:829:TRP:CH2	2:N:83:MET:CE	2.74	0.53
1:P:32:PHE:CD1	1:P:83:PRO:HD3	2.43	0.53
1:P:135:TYR:HD2	1:P:191:ARG:HD3	1.73	0.53
1:P:661:MET:O	1:P:665:ARG:HG3	2.09	0.53
3:R:46:ILE:O	3:R:50:LEU:CG	2.47	0.53
3:R:92:ARG:HA	3:R:139:TYR:OH	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:288:ASP:CA	4:9:204:ALA:HB2	2.31	0.53
1:A:154:HIS:CE1	1:A:156:PHE:HD2	2.26	0.53
1:A:404:PRO:CG	1:A:417:GLU:HG3	2.38	0.53
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.53
1:D:135:TYR:CD2	1:D:191:ARG:HG2	2.44	0.53
1:D:636:LYS:HB2	4:9:334:GLU:OE1	2.09	0.53
1:G:538:GLU:HG3	4:V:352:PHE:CA	2.38	0.53
1:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.53
3:I:92:ARG:HA	3:I:139:TYR:OH	2.09	0.53
1:J:38:VAL:CB	1:J:52:ILE:HD11	2.38	0.53
2:K:130:PRO:O	2:K:131:GLU:C	2.52	0.53
1:M:51:THR:C	1:M:62:VAL:HG13	2.32	0.53
1:M:404:PRO:CG	1:M:417:GLU:HG3	2.38	0.53
2:N:114:LYS:O	2:N:147:ASN:ND2	2.42	0.53
4:7:185:LEU:HD23	4:7:306:TYR:OH	2.09	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HD3	1.74	0.53
1:A:135:TYR:CD2	1:A:191:ARG:HG2	2.44	0.53
1:A:529:PRO:HB2	4:8:354:GLN:HA	1.91	0.53
1:A:661:MET:O	1:A:665:ARG:HG3	2.09	0.53
1:D:42:HIS:HB3	1:D:45:GLN:O	2.09	0.53
1:D:739:ASP:CB	1:D:742:LYS:CB	2.81	0.53
1:G:97:LEU:HD21	1:G:712:PRO:C	2.34	0.53
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.53
1:G:661:MET:O	1:G:665:ARG:HG3	2.09	0.53
1:J:156:PHE:HD1	1:J:195:TYR:CD1	2.27	0.53
1:J:251:ARG:HB2	1:J:264:ASP:HB2	1.91	0.53
1:J:759:ALA:O	1:J:766:PHE:N	2.32	0.53
1:M:156:PHE:HD1	1:M:195:TYR:CD1	2.27	0.53
1:M:529:PRO:HB2	4:Z:354:GLN:HA	1.91	0.53
1:P:584:TYR:CD1	1:P:585:ALA:N	2.77	0.53
1:A:42:HIS:HB3	1:A:45:GLN:O	2.09	0.53
1:A:404:PRO:HG3	1:A:417:GLU:HG3	1.91	0.53
1:D:154:HIS:CE1	1:D:156:PHE:HD2	2.27	0.53
1:D:661:MET:O	1:D:665:ARG:HG3	2.09	0.53
1:D:791:GLN:O	1:D:794:CYS:HB2	2.08	0.53
2:E:114:LYS:O	2:E:147:ASN:ND2	2.42	0.53
1:G:42:HIS:HB3	1:G:45:GLN:O	2.09	0.53
1:G:135:TYR:HD2	1:G:191:ARG:HD3	1.73	0.53
1:G:218:LEU:N	1:G:221:GLN:HG2	2.24	0.53
1:G:404:PRO:HG3	1:G:417:GLU:HG3	1.91	0.53
1:G:649:VAL:HA	1:G:649:VAL:HG23	1.83	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:797:PHE:HE2	3:I:126:LEU:HD13	1.72	0.53
1:J:135:TYR:CD2	1:J:191:ARG:HG2	2.44	0.53
1:J:529:PRO:HB2	4:W:354:GLN:HA	1.91	0.53
1:J:800:ARG:HB3	3:L:149:VAL:HG11	1.91	0.53
1:M:42:HIS:HB3	1:M:45:GLN:O	2.09	0.53
1:P:506:GLU:C	1:P:761:GLY:CA	2.82	0.53
1:P:725:ARG:HG3	1:P:733:PRO:CA	2.36	0.53
1:P:783:LEU:CB	1:P:786:ILE:CD1	2.87	0.53
4:8:185:LEU:HD23	4:8:306:TYR:OH	2.09	0.53
4:9:185:LEU:HD23	4:9:306:TYR:OH	2.09	0.53
4:Z:185:LEU:HD23	4:Z:306:TYR:OH	2.09	0.53
1:D:579:PHE:CD2	1:D:592:ILE:HD11	2.40	0.53
1:D:759:ALA:O	1:D:766:PHE:N	2.32	0.53
1:G:93:MET:HE3	1:G:764:MLY:CD	2.00	0.53
1:G:103:LEU:C	1:G:103:LEU:HD12	2.33	0.53
1:G:277:PHE:CG	1:G:278:GLN:N	2.76	0.53
1:J:154:HIS:CE1	1:J:156:PHE:HD2	2.26	0.53
1:J:571:ALA:O	1:J:572:LYS:CB	2.56	0.53
1:J:599:ASN:CG	1:J:649:VAL:CB	2.80	0.53
1:M:135:TYR:HD2	1:M:191:ARG:HD3	1.73	0.53
1:M:584:TYR:CD1	1:M:585:ALA:N	2.77	0.53
1:P:42:HIS:HB3	1:P:45:GLN:O	2.09	0.53
1:P:529:PRO:HB2	4:1:354:GLN:HA	1.91	0.53
1:P:546:THR:CB	4:3:47:MET:N	2.69	0.53
1:P:725:ARG:NH1	3:R:89:GLU:HG3	2.24	0.53
4:4:185:LEU:HD23	4:4:306:TYR:OH	2.09	0.53
4:X:287:ILE:HG23	4:Z:201:VAL:CG2	2.38	0.53
1:A:78:PHE:HB3	1:A:98:HIS:NE2	2.23	0.52
1:A:629:GLU:CA	1:A:643:GLY:C	2.73	0.52
1:D:553:MLY:O	4:W:48:GLY:CA	2.57	0.52
1:D:556:ASP:HB3	4:W:43:VAL:HG12	1.91	0.52
2:E:129:THR:O	2:E:133:ILE:HG13	2.09	0.52
1:G:98:HIS:HB3	1:G:100:PRO:CD	2.25	0.52
1:G:135:TYR:CD2	1:G:191:ARG:HG2	2.44	0.52
1:G:418:THR:CB	1:G:421:GLU:HG3	2.37	0.52
3:I:53:PRO:HB2	3:I:55:LYS:HG3	1.91	0.52
1:J:355:THR:OG1	1:J:437:MET:HE1	2.10	0.52
1:J:584:TYR:CD1	1:J:585:ALA:N	2.77	0.52
1:M:197:ALA:O	1:M:201:ALA:HB2	2.09	0.52
1:M:404:PRO:HG3	1:M:417:GLU:HG3	1.91	0.52
1:M:732:ILE:HG23	1:M:747:LEU:CD1	1.05	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:491:PHE:HD1	1:P:671:PHE:CE2	2.27	0.52
1:P:571:ALA:O	1:P:572:LYS:CB	2.56	0.52
1:P:636:LYS:HB2	4:1:334:GLU:OE1	2.09	0.52
1:P:829:TRP:CE2	2:Q:87:LYS:CE	2.81	0.52
2:Q:130:PRO:O	2:Q:131:GLU:C	2.52	0.52
4:2:185:LEU:HD23	4:2:306:TYR:OH	2.09	0.52
4:2:203:THR:HG23	4:Z:288:ASP:OD1	2.09	0.52
4:3:185:LEU:HD23	4:3:306:TYR:OH	2.09	0.52
4:Y:185:LEU:HD23	4:Y:306:TYR:OH	2.09	0.52
1:A:355:THR:OG1	1:A:437:MET:HE1	2.09	0.52
1:A:505:MLY:HG3	1:A:741:LYS:HZ1	1.67	0.52
1:D:156:PHE:HD1	1:D:195:TYR:CD1	2.27	0.52
1:D:355:THR:OG1	1:D:437:MET:HE1	2.10	0.52
1:D:404:PRO:HG3	1:D:417:GLU:HG3	1.91	0.52
2:E:121:LEU:CA	2:E:128:PHE:CG	2.89	0.52
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.52
1:G:251:ARG:HB2	1:G:264:ASP:HB2	1.91	0.52
3:I:110:VAL:HG13	3:I:114:LEU:HD12	1.92	0.52
1:J:218:LEU:N	1:J:221:GLN:HG2	2.24	0.52
1:J:404:PRO:CG	1:J:417:GLU:HG3	2.38	0.52
1:J:817:GLN:HG2	2:K:127:ARG:CG	2.38	0.52
1:M:63:MLY:HG3	1:M:64:THR:H	1.75	0.52
1:M:98:HIS:HB3	1:M:100:PRO:CD	2.25	0.52
1:M:797:PHE:HE2	3:O:126:LEU:HD13	1.72	0.52
1:P:135:TYR:CD2	1:P:191:ARG:HG2	2.44	0.52
1:P:404:PRO:HG3	1:P:417:GLU:HG3	1.91	0.52
4:1:205:GLU:OE1	4:Y:287:ILE:O	2.26	0.52
4:2:287:ILE:C	4:4:203:THR:HG22	2.35	0.52
4:8:180:LEU:HD22	4:8:267:ILE:HD11	1.92	0.52
1:A:149:GLN:HB3	1:A:719:ASP:CA	2.34	0.52
1:A:156:PHE:HD1	1:A:195:TYR:CD1	2.27	0.52
1:A:277:PHE:CG	1:A:278:GLN:N	2.76	0.52
1:A:289:TYR:OH	1:A:315:VAL:O	2.27	0.52
1:A:530:MET:HG2	4:8:354:GLN:HB2	0.57	0.52
1:A:636:LYS:HB2	4:8:334:GLU:OE1	2.08	0.52
1:D:642:LYS:CG	4:9:22:ALA:HA	2.37	0.52
1:G:63:MLY:HG3	1:G:64:THR:H	1.74	0.52
1:G:134:VAL:C	1:G:136:ASN:H	2.16	0.52
1:G:148:ARG:NH2	1:G:764:MLY:CH1	2.70	0.52
1:G:584:TYR:CD1	1:G:585:ALA:N	2.77	0.52
1:G:634:GLY:N	4:V:25:ASP:O	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ALA:O	3:I:35:ARG:NH1	2.43	0.52
1:J:491:PHE:HD1	1:J:671:PHE:CE2	2.27	0.52
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.52
1:M:95:THR:C	1:M:770:GLY:N	2.59	0.52
1:M:506:GLU:HG3	1:M:761:GLY:HA3	1.92	0.52
1:P:232:PHE:CE1	1:P:287:ILE:HD13	2.45	0.52
1:P:838:ILE:C	1:P:840:PRO:HD2	2.35	0.52
2:Q:129:THR:O	2:Q:133:ILE:HG13	2.09	0.52
4:6:180:LEU:HD22	4:6:267:ILE:HD11	1.92	0.52
4:W:185:LEU:HD23	4:W:306:TYR:OH	2.09	0.52
1:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.52
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.52
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.92	0.52
1:G:214:MET:C	1:G:340:ILE:CD1	2.83	0.52
1:G:494:HIS:O	1:G:498:LEU:HB2	2.09	0.52
1:G:830:PRO:HB3	2:H:67:MET:HE1	1.88	0.52
1:J:135:TYR:HD2	1:J:191:ARG:HD3	1.73	0.52
1:J:277:PHE:CG	1:J:278:GLN:N	2.76	0.52
1:J:404:PRO:HG3	1:J:417:GLU:HG3	1.91	0.52
1:J:642:LYS:CG	4:W:22:ALA:HA	2.37	0.52
2:K:114:LYS:O	2:K:147:ASN:ND2	2.41	0.52
1:M:277:PHE:CG	1:M:278:GLN:N	2.76	0.52
1:M:635:GLY:HA3	4:Z:334:GLU:CG	2.30	0.52
1:M:636:LYS:HB2	4:Z:334:GLU:OE1	2.09	0.52
1:M:732:ILE:H	1:M:733:PRO:HD2	1.74	0.52
1:M:783:LEU:CD1	1:M:786:ILE:HD11	2.40	0.52
1:P:355:THR:OG1	1:P:437:MET:HE1	2.10	0.52
1:P:838:ILE:HG12	2:Q:54:MET:HE1	1.90	0.52
4:2:203:THR:HG23	4:Z:288:ASP:CG	2.29	0.52
4:3:180:LEU:HD22	4:3:267:ILE:HD11	1.92	0.52
4:5:180:LEU:HD22	4:5:267:ILE:HD11	1.92	0.52
4:9:180:LEU:HD22	4:9:267:ILE:HD11	1.92	0.52
4:V:285:CYS:O	4:V:290:ARG:NH1	2.43	0.52
4:W:180:LEU:HD22	4:W:267:ILE:HD11	1.92	0.52
4:W:288:ASP:H	4:Y:204:ALA:H	1.56	0.52
4:X:180:LEU:HD22	4:X:267:ILE:HD11	1.92	0.52
4:Z:285:CYS:O	4:Z:290:ARG:NH1	2.43	0.52
1:A:197:ALA:O	1:A:201:ALA:HB2	2.09	0.52
1:A:214:MET:C	1:A:340:ILE:CD1	2.82	0.52
1:A:218:LEU:N	1:A:221:GLN:HG2	2.24	0.52
1:A:538:GLU:HA	4:8:349:LEU:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:555:TYR:N	4:V:48:GLY:N	2.58	0.52
1:A:556:ASP:HB3	4:V:43:VAL:HG12	1.91	0.52
1:D:251:ARG:HB2	1:D:264:ASP:HB2	1.91	0.52
1:G:197:ALA:O	1:G:201:ALA:HB2	2.09	0.52
1:G:529:PRO:HB2	4:V:354:GLN:HA	1.92	0.52
2:H:114:LYS:HA	2:H:147:ASN:HD22	1.75	0.52
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	0.52
1:J:84:MLY:HH12	1:J:715:VAL:HG21	1.90	0.52
1:J:732:ILE:HG23	1:J:747:LEU:CD1	1.05	0.52
1:J:793:ARG:HH21	3:L:147:MET:CE	2.11	0.52
1:J:829:TRP:HZ3	2:K:84:PHE:CD1	2.18	0.52
1:M:135:TYR:CD2	1:M:191:ARG:HG2	2.44	0.52
1:M:491:PHE:HD1	1:M:671:PHE:CE2	2.27	0.52
1:M:709:LYS:C	1:M:710:GLY:HA2	2.31	0.52
1:M:796:GLY:CA	3:O:35:ARG:NE	2.71	0.52
1:P:508:ILE:HD13	1:P:766:PHE:HB2	1.90	0.52
1:P:792:ALA:HB3	3:R:42:THR:CG2	2.12	0.52
1:P:804:ARG:CG	1:P:808:GLU:CA	2.87	0.52
3:R:53:PRO:HB2	3:R:55:LYS:HG3	1.91	0.52
4:1:185:LEU:HD23	4:1:306:TYR:OH	2.09	0.52
4:4:285:CYS:O	4:4:290:ARG:NH1	2.43	0.52
4:5:185:LEU:HD23	4:5:306:TYR:OH	2.09	0.52
4:7:180:LEU:HD22	4:7:267:ILE:HD11	1.92	0.52
1:A:103:LEU:C	1:A:103:LEU:HD12	2.33	0.52
1:A:206:LYS:HD2	1:A:217:THR:CG2	2.17	0.52
1:A:418:THR:CB	1:A:421:GLU:HG3	2.37	0.52
1:A:494:HIS:O	1:A:498:LEU:HB2	2.09	0.52
1:A:759:ALA:O	1:A:766:PHE:N	2.32	0.52
1:A:838:ILE:C	1:A:840:PRO:HD2	2.35	0.52
1:D:109:ARG:HD3	1:D:117:THR:HB	1.92	0.52
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.52
1:G:41:VAL:HG13	1:G:42:HIS:N	2.25	0.52
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.52
1:J:756:THR:CG2	1:J:779:ARG:HB3	2.39	0.52
1:J:819:ASN:ND2	2:K:92:ASP:CG	2.68	0.52
1:M:41:VAL:HG13	1:M:42:HIS:N	2.25	0.52
1:M:838:ILE:C	1:M:840:PRO:HD2	2.35	0.52
2:N:129:THR:O	2:N:133:ILE:HG13	2.09	0.52
4:1:180:LEU:HD22	4:1:267:ILE:HD11	1.92	0.52
4:1:287:ILE:HB	4:3:203:THR:HB	1.92	0.52
4:2:288:ASP:CB	4:4:203:THR:CG2	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:180:LEU:HD22	4:4:267:ILE:HD11	1.92	0.52
4:V:180:LEU:HD22	4:V:267:ILE:HD11	1.92	0.52
4:Y:285:CYS:O	4:Y:290:ARG:NH1	2.43	0.52
1:A:553:MLY:CE	4:V:45:VAL:CA	2.49	0.52
1:A:642:LYS:HA	4:8:22:ALA:C	2.34	0.52
1:D:277:PHE:CG	1:D:278:GLN:N	2.76	0.52
1:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.52
1:G:734:GLU:OE1	3:I:109:HIS:ND1	2.43	0.52
2:H:121:LEU:CA	2:H:128:PHE:CG	2.89	0.52
1:J:579:PHE:CD2	1:J:592:ILE:HD11	2.40	0.52
1:M:214:MET:C	1:M:340:ILE:CD1	2.82	0.52
1:P:109:ARG:HD3	1:P:117:THR:HB	1.92	0.52
4:2:180:LEU:HD22	4:2:267:ILE:HD11	1.92	0.52
4:7:287:ILE:HG22	4:9:204:ALA:HB3	1.91	0.52
4:9:285:CYS:O	4:9:290:ARG:NH1	2.43	0.52
4:V:324:THR:HG22	4:X:247:VAL:HG13	1.91	0.52
4:Y:180:LEU:HD22	4:Y:267:ILE:HD11	1.92	0.52
1:A:97:LEU:CD2	1:A:712:PRO:C	2.82	0.52
1:A:538:GLU:HG3	4:8:352:PHE:CA	2.38	0.52
1:A:725:ARG:O	1:A:729:ALA:HA	2.10	0.52
1:D:555:TYR:N	4:W:48:GLY:N	2.58	0.52
1:G:732:ILE:H	1:G:733:PRO:HD2	1.74	0.52
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.37	0.52
1:J:756:THR:HG23	1:J:779:ARG:HD3	1.90	0.52
1:J:797:PHE:HE2	3:L:126:LEU:HD22	1.63	0.52
1:J:838:ILE:C	1:J:840:PRO:HD2	2.35	0.52
3:L:110:VAL:HG13	3:L:114:LEU:HD12	1.92	0.52
1:M:134:VAL:C	1:M:136:ASN:H	2.16	0.52
1:M:218:LEU:N	1:M:221:GLN:HG2	2.24	0.52
1:M:553:MLY:CG	4:2:43:VAL:CG1	2.72	0.52
1:M:732:ILE:H	1:M:733:PRO:CD	2.23	0.52
3:O:53:PRO:HB2	3:O:55:LYS:HG3	1.91	0.52
1:P:541:MET:SD	4:1:346:LEU:O	2.48	0.52
1:P:797:PHE:HE2	3:R:126:LEU:HD22	0.76	0.52
4:2:285:CYS:O	4:2:290:ARG:NH1	2.43	0.52
4:6:285:CYS:O	4:6:290:ARG:NH1	2.43	0.52
4:8:285:CYS:O	4:8:290:ARG:NH1	2.43	0.52
4:8:287:ILE:HG22	4:V:204:ALA:HB3	1.91	0.52
1:A:63:MLY:HG3	1:A:64:THR:H	1.75	0.52
1:A:93:MET:O	1:A:713:SER:CB	2.58	0.52
1:D:40:VAL:HG13	1:D:41:VAL:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:494:HIS:O	1:D:498:LEU:HB2	2.09	0.52
1:D:640:LYS:C	1:D:645:SER:HG	2.15	0.52
1:D:727:LEU:HD13	1:D:782:MLY:CH1	2.27	0.52
1:D:831:TRP:HZ2	2:E:47:LEU:CA	2.23	0.52
2:E:139:ALA:C	2:E:141:PRO:HD3	2.33	0.52
1:G:109:ARG:HD3	1:G:117:THR:HB	1.92	0.52
1:G:148:ARG:HH21	1:G:764:MLY:HH11	1.73	0.52
1:G:707:CYS:O	1:G:710:GLY:CA	2.58	0.52
1:G:732:ILE:HG21	1:G:747:LEU:CD1	0.64	0.52
1:J:42:HIS:HB3	1:J:45:GLN:O	2.09	0.52
1:J:63:MLY:HG3	1:J:64:THR:H	1.75	0.52
1:J:538:GLU:HA	4:W:349:LEU:CB	2.40	0.52
1:M:725:ARG:O	1:M:729:ALA:HA	2.10	0.52
1:P:156:PHE:HD1	1:P:195:TYR:CD1	2.27	0.52
1:P:214:MET:C	1:P:340:ILE:CD1	2.82	0.52
4:1:285:CYS:O	4:1:290:ARG:NH1	2.43	0.52
4:6:185:LEU:HD23	4:6:306:TYR:OH	2.09	0.52
4:Z:180:LEU:HD22	4:Z:267:ILE:HD11	1.92	0.52
1:A:212:GLY:O	1:A:213:LYS:HB2	2.10	0.52
1:A:732:ILE:H	1:A:733:PRO:CD	2.23	0.52
1:D:491:PHE:HD1	1:D:671:PHE:CE2	2.27	0.52
1:D:578:HIS:O	1:D:579:PHE:HB3	2.10	0.52
1:G:41:VAL:HG21	1:G:76:GLN:HG3	1.92	0.52
1:G:355:THR:OG1	1:G:437:MET:HE1	2.10	0.52
1:G:599:ASN:CG	1:G:649:VAL:CB	2.80	0.52
2:H:129:THR:O	2:H:133:ILE:HG13	2.09	0.52
3:I:104:GLY:HA2	3:I:137:ILE:HD11	1.92	0.52
1:J:221:GLN:HB2	1:J:449:LEU:HD11	1.92	0.52
2:K:114:LYS:HA	2:K:147:ASN:HD22	1.75	0.52
3:L:52:ASN:CB	3:L:53:PRO:HD3	2.28	0.52
1:M:135:TYR:HD2	1:M:191:ARG:CD	2.23	0.52
1:M:195:TYR:CE2	1:M:199:ILE:CD1	2.93	0.52
1:M:210:GLN:C	1:M:211:SER:HG	2.15	0.52
1:P:63:MLY:HG3	1:P:64:THR:H	1.75	0.52
1:P:154:HIS:CE1	1:P:156:PHE:HD2	2.26	0.52
1:P:408:VAL:CG1	4:1:332:PRO:HB3	2.40	0.52
1:P:494:HIS:O	1:P:498:LEU:HB2	2.09	0.52
3:R:110:VAL:HG13	3:R:114:LEU:HD12	1.92	0.52
4:5:285:CYS:O	4:5:290:ARG:NH1	2.43	0.52
4:V:185:LEU:HD23	4:V:306:TYR:OH	2.09	0.52
4:W:285:CYS:O	4:W:290:ARG:NH1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:214:MET:C	1:D:340:ILE:CD1	2.82	0.51
2:E:114:LYS:HA	2:E:147:ASN:HD22	1.75	0.51
1:G:28:GLN:HB3	1:G:723:ARG:NH1	2.24	0.51
1:G:40:VAL:HG13	1:G:41:VAL:O	2.10	0.51
1:G:135:TYR:HD2	1:G:191:ARG:CD	2.23	0.51
1:G:202:SER:HA	1:G:207:LYS:HE3	1.72	0.51
1:G:733:PRO:O	1:G:737:PHE:CE1	2.53	0.51
1:G:791:GLN:OE1	3:I:116:GLU:CG	2.40	0.51
1:J:135:TYR:HD2	1:J:191:ARG:CD	2.23	0.51
1:J:762:HIS:CD2	1:J:762:HIS:N	2.78	0.51
1:M:128:PRO:O	1:M:129:TYR:HB2	2.10	0.51
1:M:834:LEU:CD2	2:N:34:ILE:HD11	2.40	0.51
1:P:40:VAL:HG13	1:P:41:VAL:O	2.10	0.51
1:P:549:SER:N	4:3:47:MET:C	2.61	0.51
1:P:804:ARG:HG2	1:P:808:GLU:CA	2.40	0.51
1:P:829:TRP:HE1	2:Q:70:GLU:CD	2.16	0.51
4:1:244:ASP:CG	4:Y:325:MET:SD	2.89	0.51
1:A:97:LEU:HD23	1:A:712:PRO:HA	1.92	0.51
1:A:504:MLY:C	1:A:762:HIS:HE2	2.23	0.51
1:D:41:VAL:HG13	1:D:42:HIS:N	2.25	0.51
1:D:538:GLU:HA	4:9:349:LEU:CB	2.40	0.51
1:D:725:ARG:O	1:D:729:ALA:HA	2.10	0.51
1:G:221:GLN:HB2	1:G:449:LEU:HD11	1.92	0.51
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.51
1:G:732:ILE:H	1:G:733:PRO:CD	2.23	0.51
1:G:821:ARG:NH2	2:H:127:ARG:CG	2.63	0.51
1:J:41:VAL:HG13	1:J:42:HIS:N	2.25	0.51
1:J:195:TYR:CE2	1:J:199:ILE:CD1	2.93	0.51
1:J:197:ALA:O	1:J:201:ALA:HB2	2.10	0.51
1:J:642:LYS:HA	4:W:21:PHE:C	2.36	0.51
1:J:769:ALA:HB3	1:J:770:GLY:HA3	1.90	0.51
1:M:232:PHE:CE1	1:M:287:ILE:HD13	2.45	0.51
1:M:251:ARG:HB2	1:M:264:ASP:HB2	1.91	0.51
1:M:494:HIS:O	1:M:498:LEU:HB2	2.09	0.51
1:M:817:GLN:NE2	2:N:128:PHE:HE1	2.02	0.51
2:N:130:PRO:O	2:N:131:GLU:C	2.52	0.51
1:P:221:GLN:HB2	1:P:449:LEU:HD11	1.92	0.51
1:P:292:MET:HE2	1:P:309:PRO:HD3	1.93	0.51
1:P:538:GLU:HA	4:1:349:LEU:CB	2.40	0.51
1:P:742:LYS:O	1:P:745:GLU:HB2	2.10	0.51
2:Q:112:ILE:HG23	2:Q:147:ASN:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:144:VAL:HG12	2:Q:153:ILE:HD11	1.75	0.51
4:3:285:CYS:O	4:3:290:ARG:NH1	2.43	0.51
1:A:41:VAL:HG13	1:A:42:HIS:N	2.25	0.51
1:D:41:VAL:HG21	1:D:76:GLN:HG3	1.92	0.51
1:D:212:GLY:O	1:D:213:LYS:HB2	2.11	0.51
1:G:636:LYS:HB2	4:V:334:GLU:OE1	2.09	0.51
2:H:137:TRP:CA	2:H:145:ALA:CB	2.82	0.51
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	0.51
1:J:546:THR:CG2	1:J:548:THR:HB	2.41	0.51
2:K:129:THR:O	2:K:133:ILE:HG13	2.09	0.51
1:M:40:VAL:HG13	1:M:41:VAL:O	2.10	0.51
1:M:221:GLN:HB2	1:M:449:LEU:HD11	1.92	0.51
1:P:248:MLY:N	1:P:463:ASP:O	2.44	0.51
1:P:725:ARG:O	1:P:729:ALA:HA	2.10	0.51
1:P:732:ILE:HG23	1:P:747:LEU:CD1	1.05	0.51
1:P:796:GLY:CA	3:R:35:ARG:CD	2.65	0.51
1:P:804:ARG:HB3	1:P:808:GLU:HG3	1.92	0.51
2:Q:114:LYS:HA	2:Q:147:ASN:HD22	1.75	0.51
4:4:287:ILE:HG22	4:6:204:ALA:HB3	1.92	0.51
1:A:22:LYS:O	1:A:26:GLU:N	2.30	0.51
1:A:221:GLN:HB2	1:A:449:LEU:HD11	1.93	0.51
1:D:128:PRO:O	1:D:129:TYR:HB2	2.10	0.51
1:D:221:GLN:HB2	1:D:449:LEU:HD11	1.93	0.51
1:G:195:TYR:CE2	1:G:199:ILE:CD1	2.93	0.51
1:G:232:PHE:CE1	1:G:287:ILE:HD13	2.45	0.51
3:I:100:GLY:O	3:I:138:ASN:HA	2.11	0.51
1:J:40:VAL:HG13	1:J:41:VAL:O	2.10	0.51
1:J:128:PRO:O	1:J:129:TYR:HB2	2.10	0.51
1:J:232:PHE:CE1	1:J:287:ILE:HD13	2.45	0.51
1:J:248:MLY:N	1:J:463:ASP:O	2.44	0.51
1:J:292:MET:HE2	1:J:309:PRO:HD3	1.93	0.51
1:J:795:ARG:HE	3:L:116:GLU:HB3	1.74	0.51
1:M:355:THR:OG1	1:M:437:MET:HE1	2.10	0.51
1:M:739:ASP:CB	1:M:742:LYS:CB	2.81	0.51
1:M:797:PHE:CZ	3:O:126:LEU:CD2	2.69	0.51
2:N:114:LYS:HA	2:N:147:ASN:HD22	1.75	0.51
3:O:110:VAL:HG13	3:O:114:LEU:HD12	1.92	0.51
1:P:548:THR:HG21	4:3:47:MET:CB	2.40	0.51
1:P:578:HIS:O	1:P:579:PHE:HB3	2.11	0.51
4:X:285:CYS:O	4:X:290:ARG:NH1	2.43	0.51
1:A:195:TYR:CE2	1:A:199:ILE:CD1	2.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:LEU:N	1:A:221:GLN:CG	2.74	0.51
1:A:491:PHE:HD1	1:A:671:PHE:CE2	2.27	0.51
1:D:63:MLY:HG3	1:D:64:THR:H	1.75	0.51
1:D:197:ALA:O	1:D:201:ALA:HB2	2.09	0.51
1:D:546:THR:CG2	1:D:548:THR:HB	2.41	0.51
1:G:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
2:H:112:ILE:HG23	2:H:147:ASN:HB3	1.93	0.51
1:J:214:MET:C	1:J:340:ILE:CD1	2.82	0.51
1:J:725:ARG:O	1:J:729:ALA:HA	2.10	0.51
1:J:797:PHE:CE2	3:L:126:LEU:HD13	2.46	0.51
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.51
1:M:97:LEU:HD21	1:M:712:PRO:HB3	1.92	0.51
1:M:642:LYS:HA	4:Z:21:PHE:C	2.36	0.51
1:M:797:PHE:HE1	3:O:146:ILE:HD13	1.71	0.51
1:M:817:GLN:HB3	2:N:127:ARG:HD3	1.92	0.51
1:P:41:VAL:HG21	1:P:76:GLN:HG3	1.93	0.51
1:P:546:THR:CG2	1:P:548:THR:HB	2.41	0.51
1:P:788:THR:O	3:R:42:THR:CG2	2.59	0.51
1:P:797:PHE:CE1	3:R:146:ILE:CG2	2.88	0.51
1:P:817:GLN:HG3	2:Q:128:PHE:CZ	2.46	0.51
4:1:287:ILE:HG21	4:3:204:ALA:H	1.76	0.51
4:9:287:ILE:HG22	4:W:204:ALA:HB3	1.91	0.51
1:A:41:VAL:HG21	1:A:76:GLN:HG3	1.92	0.51
1:A:128:PRO:O	1:A:129:TYR:HB2	2.10	0.51
1:D:135:TYR:HD2	1:D:191:ARG:CD	2.23	0.51
1:D:408:VAL:CG1	4:9:332:PRO:HB3	2.41	0.51
1:D:599:ASN:CG	1:D:649:VAL:CB	2.80	0.51
1:G:818:TYR:CE1	2:H:127:ARG:NH1	2.79	0.51
1:J:84:MLY:CH2	1:J:719:ASP:C	2.83	0.51
1:J:817:GLN:OE1	2:K:127:ARG:HD2	2.05	0.51
1:M:762:HIS:CD2	1:M:762:HIS:N	2.78	0.51
1:P:197:ALA:O	1:P:201:ALA:HB2	2.10	0.51
1:A:418:THR:O	1:A:422:VAL:HG23	2.11	0.51
1:A:505:MLY:CG	1:A:741:LYS:HZ3	2.20	0.51
1:A:599:ASN:CG	1:A:649:VAL:CB	2.80	0.51
1:A:634:GLY:N	4:8:25:ASP:O	2.31	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:292:MET:HE2	1:D:309:PRO:HD3	1.93	0.51
1:D:311:ASP:HB2	1:D:312:TYR:CE1	2.46	0.51
1:D:795:ARG:HD2	3:F:43:ASN:CG	2.34	0.51
1:D:831:TRP:HH2	2:E:50:THR:HB	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:MLY:HB3	1:G:723:ARG:CZ	2.41	0.51
1:G:128:PRO:O	1:G:129:TYR:HB2	2.09	0.51
1:G:448:GLN:C	1:G:450:ASP:H	2.19	0.51
1:G:578:HIS:O	1:G:579:PHE:HB3	2.11	0.51
1:J:640:LYS:CA	1:J:645:SER:OG	2.58	0.51
1:M:109:ARG:HD3	1:M:117:THR:HB	1.92	0.51
1:M:212:GLY:O	1:M:213:LYS:HB2	2.11	0.51
1:M:448:GLN:C	1:M:450:ASP:H	2.19	0.51
1:M:592:ILE:HG22	1:M:592:ILE:O	2.10	0.51
1:P:530:MET:HG2	4:1:354:GLN:HB2	0.57	0.51
1:P:687:GLU:O	1:P:691:VAL:HG23	2.11	0.51
1:P:818:TYR:HH	2:Q:127:ARG:NH2	1.97	0.51
1:P:834:LEU:CD2	2:Q:34:ILE:HG12	2.41	0.51
4:2:287:ILE:HD13	4:4:203:THR:CA	2.41	0.51
4:7:285:CYS:O	4:7:290:ARG:NH1	2.43	0.51
4:V:322:PRO:HB3	4:X:246:GLN:HG2	1.92	0.51
1:A:40:VAL:HG13	1:A:41:VAL:O	2.10	0.51
1:A:109:ARG:HD3	1:A:117:THR:HB	1.92	0.51
1:A:232:PHE:CE1	1:A:287:ILE:HD13	2.45	0.51
1:A:237:THR:O	1:A:240:ASN:O	2.29	0.51
1:A:248:MLY:N	1:A:463:ASP:O	2.44	0.51
1:A:251:ARG:HB2	1:A:264:ASP:HB2	1.91	0.51
1:A:687:GLU:O	1:A:691:VAL:HG23	2.11	0.51
1:D:169:ASP:OD1	1:D:169:ASP:N	2.44	0.51
1:D:232:PHE:CE1	1:D:287:ILE:HD13	2.45	0.51
1:D:675:ILE:CG2	1:D:676:ILE:N	2.74	0.51
1:D:732:ILE:H	1:D:733:PRO:CD	2.23	0.51
1:D:742:LYS:O	1:D:745:GLU:HB2	2.11	0.51
1:G:109:ARG:O	1:G:114:MET:N	2.37	0.51
1:G:212:GLY:O	1:G:213:LYS:HB2	2.11	0.51
1:G:830:PRO:HG2	2:H:67:MET:HE2	1.83	0.51
1:J:218:LEU:CD2	1:J:222:ILE:CG1	2.86	0.51
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.51
1:J:576:GLU:CG	1:J:577:ALA:N	2.44	0.51
1:M:248:MLY:N	1:M:463:ASP:O	2.44	0.51
1:M:418:THR:O	1:M:422:VAL:HG23	2.11	0.51
1:P:128:PRO:O	1:P:129:TYR:HB2	2.10	0.51
1:P:291:ILE:HA	1:P:331:LEU:CD1	2.39	0.51
1:P:725:ARG:NH2	3:R:85:GLU:CD	2.68	0.51
1:P:831:TRP:CZ3	2:Q:34:ILE:HD13	2.46	0.51
3:R:104:GLY:HA2	3:R:137:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:203:THR:CG2	4:Z:288:ASP:OD2	2.44	0.51
1:A:202:SER:HB2	1:A:207:LYS:NZ	2.26	0.51
1:A:400:ALA:HB1	1:A:606:THR:HG22	1.92	0.51
1:D:592:ILE:O	1:D:592:ILE:HG22	2.10	0.51
1:D:733:PRO:O	1:D:737:PHE:CE1	2.53	0.51
1:D:836:PHE:HE1	2:E:159:HIS:CB	2.18	0.51
3:F:100:GLY:O	3:F:138:ASN:HA	2.11	0.51
1:G:592:ILE:HG22	1:G:592:ILE:O	2.11	0.51
1:G:750:GLY:HA3	3:I:114:LEU:HD22	1.92	0.51
1:G:838:ILE:C	1:G:840:PRO:HD2	2.34	0.51
1:J:400:ALA:HB1	1:J:606:THR:HG22	1.93	0.51
1:J:687:GLU:O	1:J:691:VAL:HG23	2.11	0.51
3:L:46:ILE:O	3:L:50:LEU:CG	2.47	0.51
3:L:104:GLY:HA2	3:L:137:ILE:HD11	1.92	0.51
1:M:41:VAL:HG21	1:M:76:GLN:HG3	1.93	0.51
1:M:220:ASP:O	1:M:224:SER:N	2.27	0.51
1:M:629:GLU:HG2	1:M:643:GLY:C	2.35	0.51
1:M:640:LYS:CA	1:M:645:SER:OG	2.58	0.51
3:O:104:GLY:HA2	3:O:137:ILE:HD11	1.92	0.51
1:P:41:VAL:HG13	1:P:42:HIS:N	2.25	0.51
1:P:212:GLY:O	1:P:213:LYS:HB2	2.10	0.51
1:P:640:LYS:CA	1:P:645:SER:OG	2.58	0.51
4:2:45:VAL:CG2	4:Z:148:THR:OG1	2.59	0.51
1:A:448:GLN:C	1:A:450:ASP:H	2.19	0.51
1:A:592:ILE:O	1:A:592:ILE:HG22	2.11	0.51
1:D:267:THR:HG21	1:D:438:PHE:HE2	1.76	0.51
1:D:400:ALA:HB1	1:D:606:THR:HG22	1.92	0.51
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	0.51
1:D:646:PHE:CE2	1:D:652:LEU:CD2	2.87	0.51
1:D:733:PRO:CA	1:D:737:PHE:CE1	2.94	0.51
1:G:237:THR:O	1:G:240:ASN:O	2.29	0.51
1:G:612:GLN:HE22	1:G:627:GLY:HA2	1.66	0.51
1:J:267:THR:HG21	1:J:438:PHE:HE2	1.76	0.51
1:J:732:ILE:H	1:J:733:PRO:CD	2.23	0.51
1:M:202:SER:HB2	1:M:207:LYS:NZ	2.26	0.51
1:M:632:GLY:HA3	1:M:643:GLY:N	2.17	0.51
1:M:642:LYS:CG	4:Z:22:ALA:HA	2.37	0.51
1:M:687:GLU:O	1:M:691:VAL:HG23	2.11	0.51
3:O:100:GLY:O	3:O:138:ASN:HA	2.11	0.51
1:P:218:LEU:N	1:P:221:GLN:CG	2.74	0.51
4:W:286:ASP:OD2	4:Y:203:THR:CG2	2.47	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:332:MET:O	1:A:336:SER:OG	2.27	0.50
1:A:505:MLY:HB3	1:A:762:HIS:N	2.24	0.50
1:D:206:LYS:HD2	1:D:217:THR:CG2	2.17	0.50
1:G:629:GLU:HG2	1:G:643:GLY:C	2.36	0.50
1:G:818:TYR:CE2	2:H:127:ARG:NH1	2.78	0.50
1:J:89:GLU:CD	1:J:153:PRO:HD2	2.37	0.50
1:J:109:ARG:HD3	1:J:117:THR:HB	1.92	0.50
1:J:212:GLY:O	1:J:213:LYS:HB2	2.11	0.50
1:J:418:THR:O	1:J:422:VAL:HG23	2.11	0.50
1:J:429:LEU:O	1:J:433:VAL:HG23	2.12	0.50
2:K:149:ASP:CG	2:K:150:TYR:N	2.49	0.50
1:M:418:THR:CB	1:M:421:GLU:HG3	2.37	0.50
1:M:530:MET:HG2	4:Z:354:GLN:HB2	0.57	0.50
1:M:735:GLY:O	1:M:743:ALA:HA	1.94	0.50
1:M:797:PHE:CE1	3:O:146:ILE:HA	2.44	0.50
1:P:89:GLU:CD	1:P:153:PRO:HD2	2.37	0.50
1:P:202:SER:HB2	1:P:207:LYS:NZ	2.26	0.50
1:P:237:THR:O	1:P:240:ASN:O	2.29	0.50
1:P:400:ALA:HB1	1:P:606:THR:HG22	1.93	0.50
4:1:243:PRO:CB	4:Y:291:LYS:HD2	2.37	0.50
1:A:429:LEU:O	1:A:433:VAL:HG23	2.12	0.50
1:A:642:LYS:HA	4:8:21:PHE:C	2.36	0.50
1:D:709:LYS:C	1:D:710:GLY:CA	2.83	0.50
1:G:218:LEU:N	1:G:221:GLN:CG	2.74	0.50
1:G:418:THR:O	1:G:422:VAL:HG23	2.11	0.50
1:G:640:LYS:CA	1:G:645:SER:OG	2.59	0.50
1:J:202:SER:HB2	1:J:207:LYS:NZ	2.26	0.50
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.50
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	0.50
1:J:553:MLY:CE	4:Y:45:VAL:HG11	2.33	0.50
1:J:592:ILE:HG22	1:J:592:ILE:O	2.11	0.50
1:J:821:ARG:NH1	2:K:127:ARG:CZ	2.74	0.50
1:M:237:THR:O	1:M:240:ASN:O	2.29	0.50
1:M:408:VAL:CG1	4:Z:332:PRO:HB3	2.41	0.50
1:M:470:PHE:O	1:M:473:ASN:ND2	2.40	0.50
2:N:112:ILE:HG23	2:N:147:ASN:HB3	1.93	0.50
1:A:135:TYR:HD2	1:A:191:ARG:CD	2.23	0.50
1:A:149:GLN:CB	1:A:718:ALA:CA	2.87	0.50
1:A:578:HIS:O	1:A:579:PHE:HB3	2.11	0.50
1:A:629:GLU:HG2	1:A:643:GLY:C	2.35	0.50
1:A:646:PHE:HE2	1:A:652:LEU:CG	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:742:LYS:O	1:A:745:GLU:HB2	2.11	0.50
1:A:757:GLN:HG3	1:A:771:LEU:CD1	2.28	0.50
1:D:22:LYS:O	1:D:26:GLU:N	2.29	0.50
1:D:248:MLY:N	1:D:463:ASP:O	2.44	0.50
1:D:411:GLU:H	4:9:333:PRO:CG	2.24	0.50
1:D:727:LEU:CA	1:D:782:MLY:HE2	2.41	0.50
1:D:793:ARG:CZ	3:F:87:PHE:CE1	2.95	0.50
1:D:795:ARG:CG	3:F:118:MET:CE	2.39	0.50
1:G:38:VAL:CG1	1:G:39:PHE:N	2.74	0.50
1:G:289:TYR:OH	1:G:315:VAL:O	2.27	0.50
1:G:292:MET:HE2	1:G:309:PRO:HD3	1.93	0.50
1:G:538:GLU:OE1	4:V:351:THR:HB	2.12	0.50
1:G:643:GLY:N	4:V:23:GLY:C	2.55	0.50
1:G:732:ILE:HG23	1:G:747:LEU:CD1	1.04	0.50
1:G:795:ARG:N	3:I:118:MET:HE3	2.27	0.50
1:J:291:ILE:HA	1:J:331:LEU:CD1	2.39	0.50
1:J:646:PHE:HE2	1:J:652:LEU:CG	2.25	0.50
2:K:121:LEU:O	2:K:128:PHE:CG	2.61	0.50
2:K:121:LEU:HA	2:K:128:PHE:CD2	2.47	0.50
1:M:400:ALA:HB1	1:M:606:THR:HG22	1.93	0.50
1:P:218:LEU:CD2	1:P:222:ILE:CG1	2.85	0.50
1:A:733:PRO:CA	1:A:737:PHE:CE1	2.95	0.50
1:A:735:GLY:O	1:A:743:ALA:HA	1.94	0.50
1:D:642:LYS:CB	4:9:24:ASP:O	2.60	0.50
1:D:687:GLU:O	1:D:691:VAL:HG23	2.11	0.50
1:D:712:PRO:HB2	1:D:771:LEU:CG	2.41	0.50
1:D:727:LEU:HB2	1:D:782:MLY:CE	2.41	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50
1:G:206:LYS:HD2	1:G:217:THR:CG2	2.17	0.50
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.24	0.50
1:G:838:ILE:HG13	2:H:54:MET:HE1	1.92	0.50
1:J:289:TYR:OH	1:J:315:VAL:O	2.27	0.50
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	0.50
1:J:675:ILE:CG2	1:J:676:ILE:N	2.74	0.50
1:M:38:VAL:CG1	1:M:39:PHE:N	2.74	0.50
1:M:292:MET:HE2	1:M:309:PRO:HD3	1.93	0.50
1:M:429:LEU:O	1:M:433:VAL:HG23	2.12	0.50
1:M:546:THR:CG2	1:M:548:THR:HB	2.41	0.50
1:P:195:TYR:CE2	1:P:199:ILE:CD1	2.93	0.50
1:P:508:ILE:CG2	1:P:759:ALA:CB	2.89	0.50
1:P:642:LYS:HA	4:1:21:PHE:C	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:154:HIS:CD2	1:A:155:ILE:H	2.30	0.50
1:A:292:MET:HE2	1:A:309:PRO:HD3	1.93	0.50
1:A:546:THR:CG2	1:A:548:THR:HB	2.41	0.50
1:A:739:ASP:CB	1:A:742:LYS:CB	2.81	0.50
1:D:715:VAL:O	1:D:764:MLY:HB3	2.12	0.50
1:G:278:GLN:HG3	1:G:318:GLY:H	1.75	0.50
1:G:346:ASP:O	1:G:349:THR:HB	2.11	0.50
1:G:642:LYS:HA	4:V:21:PHE:C	2.36	0.50
1:G:725:ARG:O	1:G:729:ALA:HA	2.10	0.50
1:G:835:PHE:CE1	2:H:30:ALA:HB2	2.47	0.50
1:J:220:ASP:O	1:J:224:SER:N	2.27	0.50
1:J:411:GLU:H	4:W:333:PRO:CG	2.24	0.50
2:K:114:LYS:N	2:K:146:GLY:O	2.40	0.50
1:M:742:LYS:O	1:M:745:GLU:HB2	2.10	0.50
1:P:267:THR:HG21	1:P:438:PHE:HE2	1.76	0.50
1:P:411:GLU:H	4:1:333:PRO:CG	2.24	0.50
1:P:418:THR:O	1:P:422:VAL:HG23	2.11	0.50
1:P:675:ILE:CG2	1:P:676:ILE:N	2.74	0.50
4:1:201:VAL:CB	4:Y:287:ILE:CG1	2.87	0.50
1:A:346:ASP:O	1:A:349:THR:HB	2.11	0.50
1:A:505:MLY:CD	1:A:741:LYS:HZ3	2.22	0.50
1:D:429:LEU:O	1:D:433:VAL:HG23	2.11	0.50
1:D:448:GLN:C	1:D:450:ASP:H	2.19	0.50
1:D:629:GLU:CB	1:D:645:SER:N	2.74	0.50
1:D:640:LYS:CA	1:D:645:SER:OG	2.58	0.50
2:E:112:ILE:HG23	2:E:147:ASN:HB3	1.92	0.50
1:G:248:MLY:N	1:G:463:ASP:O	2.44	0.50
1:G:411:GLU:H	4:V:333:PRO:CG	2.24	0.50
1:G:471:ASP:HB3	1:G:573:GLY:O	2.12	0.50
1:G:546:THR:CG2	1:G:548:THR:HB	2.41	0.50
1:G:817:GLN:HG3	2:H:128:PHE:CE1	2.47	0.50
1:J:218:LEU:N	1:J:221:GLN:CG	2.74	0.50
1:J:448:GLN:C	1:J:450:ASP:H	2.19	0.50
1:J:471:ASP:HB3	1:J:573:GLY:O	2.12	0.50
1:J:838:ILE:CD1	2:K:54:MET:HE1	2.18	0.50
2:K:112:ILE:HG23	2:K:147:ASN:HB3	1.93	0.50
1:M:310:TYR:CE2	1:M:320:ILE:CD1	2.94	0.50
1:M:346:ASP:O	1:M:349:THR:HB	2.12	0.50
1:M:805:ALA:C	1:M:806:MET:C	2.80	0.50
2:N:121:LEU:CA	2:N:128:PHE:CG	2.89	0.50
1:P:311:ASP:HB2	1:P:312:TYR:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:724:TYR:CE1	1:P:775:LEU:CB	2.73	0.50
1:A:408:VAL:CG1	4:8:332:PRO:HB3	2.40	0.50
1:D:195:TYR:CE2	1:D:199:ILE:CD1	2.93	0.50
1:D:218:LEU:N	1:D:221:GLN:CG	2.74	0.50
1:D:634:GLY:N	4:9:25:ASP:O	2.31	0.50
1:D:732:ILE:O	1:D:736:GLN:HG3	2.12	0.50
1:G:28:GLN:CB	1:G:723:ARG:HH12	2.24	0.50
2:H:121:LEU:O	2:H:128:PHE:CG	2.61	0.50
1:J:41:VAL:HG21	1:J:76:GLN:HG3	1.93	0.50
1:J:742:LYS:O	1:J:745:GLU:HB2	2.11	0.50
1:J:756:THR:CG2	1:J:776:GLU:HB3	2.40	0.50
1:M:732:ILE:O	1:M:736:GLN:HG3	2.12	0.50
2:N:121:LEU:O	2:N:128:PHE:CG	2.61	0.50
1:P:278:GLN:HG3	1:P:318:GLY:H	1.76	0.50
1:P:470:PHE:O	1:P:473:ASN:ND2	2.40	0.50
1:P:592:ILE:HG22	1:P:592:ILE:O	2.10	0.50
2:Q:114:LYS:N	2:Q:146:GLY:O	2.40	0.50
4:2:287:ILE:CG2	4:4:202:THR:CA	2.82	0.50
4:7:325:MET:HE2	4:9:244:ASP:HB3	1.94	0.50
4:9:325:MET:HE2	4:W:244:ASP:HB3	1.94	0.50
1:A:38:VAL:CG1	1:A:39:PHE:N	2.74	0.50
1:A:89:GLU:CD	1:A:153:PRO:HD2	2.37	0.50
1:A:121:LEU:HG	1:A:764:MLY:HH21	1.94	0.50
1:A:169:ASP:OD1	1:A:169:ASP:N	2.44	0.50
1:A:411:GLU:H	4:8:333:PRO:CG	2.24	0.50
1:D:289:TYR:OH	1:D:315:VAL:O	2.27	0.50
1:D:724:TYR:CE1	1:D:778:MET:HB3	2.47	0.50
1:G:154:HIS:CD2	1:G:155:ILE:H	2.30	0.50
1:G:408:VAL:CG1	4:V:332:PRO:HB3	2.41	0.50
1:G:733:PRO:CA	1:G:737:PHE:CE1	2.95	0.50
1:J:346:ASP:O	1:J:349:THR:HB	2.12	0.50
1:J:732:ILE:O	1:J:736:GLN:HG3	2.12	0.50
1:J:735:GLY:O	1:J:743:ALA:HA	1.94	0.50
1:J:791:GLN:HE22	3:L:115:GLY:CA	2.22	0.50
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.47	0.50
1:J:813:ILE:CG2	2:K:128:PHE:CE1	2.95	0.50
1:M:218:LEU:N	1:M:221:GLN:CG	2.74	0.50
1:M:538:GLU:HA	4:Z:349:LEU:CB	2.40	0.50
1:M:538:GLU:OE1	4:Z:351:THR:HB	2.12	0.50
1:M:547:ASP:O	1:M:550:PHE:HB3	2.12	0.50
1:P:733:PRO:CA	1:P:737:PHE:CE1	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:786:ILE:HG22	1:P:787:ILE:CA	2.42	0.50
1:P:792:ALA:HB2	3:R:42:THR:HG22	0.70	0.50
1:P:839:MLY:HB2	1:P:840:PRO:HD3	1.94	0.50
2:Q:121:LEU:HA	2:Q:128:PHE:CD2	2.47	0.50
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.87	0.50
1:A:251:ARG:O	1:A:263:ALA:HA	2.12	0.50
1:A:311:ASP:HB2	1:A:312:TYR:CE1	2.47	0.50
1:D:38:VAL:CG1	1:D:39:PHE:N	2.74	0.50
1:D:215:GLN:H	1:D:340:ILE:CD1	2.20	0.50
1:D:237:THR:O	1:D:240:ASN:O	2.29	0.50
1:D:418:THR:O	1:D:422:VAL:HG23	2.11	0.50
1:G:169:ASP:N	1:G:169:ASP:OD1	2.44	0.50
1:G:503:TYR:OH	1:G:711:PHE:CE2	2.58	0.50
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	0.50
1:G:601:ASP:N	1:G:602:PRO:CD	2.75	0.50
1:J:715:VAL:O	1:J:764:MLY:HB3	2.12	0.50
1:J:733:PRO:CA	1:J:737:PHE:CE1	2.95	0.50
1:J:791:GLN:NE2	3:L:116:GLU:H	2.10	0.50
1:J:817:GLN:CG	2:K:127:ARG:HB2	2.37	0.50
1:M:546:THR:C	4:2:46:GLY:C	2.70	0.50
1:P:135:TYR:HD2	1:P:191:ARG:CD	2.23	0.50
1:P:154:HIS:CD2	1:P:155:ILE:H	2.30	0.50
1:P:202:SER:HA	1:P:207:LYS:NZ	2.22	0.50
1:P:346:ASP:O	1:P:349:THR:HB	2.12	0.50
1:P:429:LEU:O	1:P:433:VAL:HG23	2.12	0.50
1:P:486:MLY:HH22	1:P:527:GLU:CD	2.37	0.50
1:P:507:GLY:HA3	1:P:762:HIS:CD2	2.47	0.50
1:A:278:GLN:HG3	1:A:318:GLY:H	1.75	0.49
1:D:89:GLU:CD	1:D:153:PRO:HD2	2.37	0.49
1:D:97:LEU:HD13	1:D:97:LEU:N	2.27	0.49
1:D:547:ASP:O	1:D:550:PHE:HB3	2.12	0.49
1:D:725:ARG:NE	1:D:733:PRO:CB	1.95	0.49
2:E:121:LEU:O	2:E:128:PHE:CG	2.61	0.49
1:G:311:ASP:HB2	1:G:312:TYR:CE1	2.46	0.49
1:G:510:TRP:CZ2	1:G:768:MLY:HH11	2.46	0.49
1:G:642:LYS:CG	4:V:22:ALA:HA	2.37	0.49
1:G:739:ASP:CB	1:G:742:LYS:CB	2.81	0.49
1:G:829:TRP:CH2	2:H:83:MET:CE	2.80	0.49
1:J:553:MLY:CE	4:Y:45:VAL:CG1	2.78	0.49
1:J:601:ASP:N	1:J:602:PRO:CD	2.75	0.49
1:J:839:MLY:HH21	2:K:158:THR:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:251:ARG:O	1:M:263:ALA:HA	2.12	0.49
1:M:278:GLN:HG3	1:M:318:GLY:H	1.76	0.49
1:M:311:ASP:HB2	1:M:312:TYR:CE1	2.47	0.49
1:M:578:HIS:O	1:M:579:PHE:HB3	2.11	0.49
1:M:798:LEU:HD23	3:O:118:MET:HB3	1.93	0.49
1:P:747:LEU:C	1:P:749:GLY:H	2.20	0.49
4:1:201:VAL:HG23	4:Y:287:ILE:CB	2.42	0.49
4:9:70:PRO:HG3	4:9:81:ASP:HB3	1.94	0.49
1:A:291:ILE:HA	1:A:331:LEU:CD1	2.39	0.49
1:A:640:LYS:CA	1:A:645:SER:OG	2.58	0.49
1:A:839:MLY:HB2	1:A:840:PRO:HD3	1.94	0.49
1:A:839:MLY:N	1:A:840:PRO:CD	2.75	0.49
1:D:278:GLN:HG3	1:D:318:GLY:H	1.75	0.49
1:D:530:MET:HG2	4:9:354:GLN:HB2	0.57	0.49
1:D:538:GLU:OE1	4:9:351:THR:HB	2.12	0.49
1:D:793:ARG:CZ	3:F:87:PHE:HE1	2.25	0.49
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.49
1:G:176:LEU:N	1:G:176:LEU:CD1	2.75	0.49
1:G:214:MET:HA	1:G:340:ILE:CD1	2.41	0.49
1:G:547:ASP:O	1:G:550:PHE:HB3	2.12	0.49
1:G:687:GLU:O	1:G:691:VAL:HG23	2.11	0.49
1:G:715:VAL:O	1:G:764:MLY:HB3	2.12	0.49
1:G:739:ASP:OD1	1:G:740:SER:N	2.46	0.49
1:G:742:LYS:O	1:G:745:GLU:HB2	2.10	0.49
1:G:795:ARG:NE	3:I:116:GLU:CD	2.71	0.49
1:G:795:ARG:CZ	3:I:116:GLU:CG	2.88	0.49
1:J:154:HIS:CD2	1:J:155:ILE:H	2.30	0.49
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.49
1:J:836:PHE:CE2	2:K:160:GLY:CA	2.95	0.49
2:K:93:PRO:O	2:K:97:ILE:HG13	2.13	0.49
1:M:89:GLU:CD	1:M:153:PRO:HD2	2.37	0.49
1:M:747:LEU:C	1:M:749:GLY:H	2.20	0.49
1:M:829:TRP:CE2	2:N:87:LYS:CE	2.84	0.49
1:P:168:THR:HG22	1:P:169:ASP:OD1	2.12	0.49
1:P:169:ASP:OD1	1:P:169:ASP:N	2.44	0.49
1:P:251:ARG:O	1:P:263:ALA:HA	2.12	0.49
1:P:471:ASP:HB3	1:P:573:GLY:O	2.12	0.49
1:P:506:GLU:CD	1:P:763:THR:H	2.20	0.49
1:P:792:ALA:HB1	3:R:42:THR:N	2.27	0.49
1:P:839:MLY:N	1:P:840:PRO:CD	2.75	0.49
4:6:70:PRO:HG3	4:6:81:ASP:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:318:THR:HA	4:V:327:ILE:HG12	1.95	0.49
1:A:538:GLU:OE1	4:8:351:THR:HB	2.12	0.49
1:A:547:ASP:O	1:A:550:PHE:HB3	2.12	0.49
1:A:715:VAL:O	1:A:764:MLY:HB3	2.12	0.49
1:D:291:ILE:HA	1:D:331:LEU:CD1	2.39	0.49
1:D:629:GLU:HG2	1:D:643:GLY:C	2.35	0.49
2:E:140:PHE:HB3	2:E:144:VAL:HG12	1.94	0.49
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.61	0.49
1:G:798:LEU:HD23	3:I:118:MET:HB3	1.94	0.49
1:J:756:THR:O	1:J:758:TYR:N	2.46	0.49
1:J:798:LEU:HG	3:L:126:LEU:HD11	1.92	0.49
1:J:839:MLY:HH13	2:K:159:HIS:HD2	1.77	0.49
1:M:543:PRO:CD	4:Z:146:GLY:O	2.61	0.49
1:M:595:TRP:N	1:M:595:TRP:CD1	2.80	0.49
1:M:769:ALA:C	1:M:770:GLY:CA	2.85	0.49
1:M:805:ALA:C	1:M:807:VAL:N	2.70	0.49
2:N:117:LEU:HG	2:N:147:ASN:HB3	1.93	0.49
1:P:128:PRO:O	1:P:683:PRO:HB3	2.12	0.49
1:P:549:SER:CA	4:3:47:MET:O	2.59	0.49
1:P:646:PHE:HE2	1:P:652:LEU:CG	2.25	0.49
1:P:715:VAL:O	1:P:764:MLY:HB3	2.12	0.49
1:P:733:PRO:CG	3:R:85:GLU:CG	2.83	0.49
3:R:100:GLY:O	3:R:138:ASN:HA	2.11	0.49
4:5:70:PRO:HG3	4:5:81:ASP:HB3	1.94	0.49
4:W:318:THR:HA	4:W:327:ILE:HG12	1.95	0.49
1:A:715:VAL:HG12	1:A:716:LEU:O	2.13	0.49
1:D:346:ASP:O	1:D:349:THR:HB	2.11	0.49
1:G:400:ALA:HB1	1:G:606:THR:HG22	1.93	0.49
1:G:538:GLU:HA	4:V:351:THR:H	1.77	0.49
1:G:540:CYS:C	4:V:349:LEU:HD21	2.36	0.49
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	0.49
1:J:547:ASP:O	1:J:550:PHE:HB3	2.12	0.49
1:J:646:PHE:CE2	1:J:652:LEU:CD2	2.87	0.49
1:J:831:TRP:CH2	2:K:47:LEU:HD23	2.44	0.49
1:M:128:PRO:O	1:M:683:PRO:HB3	2.12	0.49
1:M:192:VAL:O	1:M:195:TYR:HB3	2.13	0.49
1:M:411:GLU:H	4:Z:333:PRO:CG	2.24	0.49
1:M:471:ASP:HB3	1:M:573:GLY:O	2.12	0.49
1:M:546:THR:O	4:2:46:GLY:C	2.54	0.49
1:M:715:VAL:O	1:M:764:MLY:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:733:PRO:CA	1:M:737:PHE:CE1	2.95	0.49
1:P:64:THR:CG2	1:P:65:GLU:N	2.75	0.49
1:P:290:GLN:HG2	1:P:331:LEU:CA	2.43	0.49
1:P:448:GLN:C	1:P:450:ASP:H	2.19	0.49
1:P:530:MET:HA	4:1:354:GLN:CD	2.11	0.49
1:P:547:ASP:O	1:P:550:PHE:HB3	2.12	0.49
1:P:629:GLU:CB	1:P:645:SER:N	2.74	0.49
1:P:829:TRP:HZ2	2:Q:83:MET:SD	2.33	0.49
2:Q:121:LEU:O	2:Q:128:PHE:CG	2.61	0.49
2:Q:140:PHE:HB3	2:Q:144:VAL:HG12	1.94	0.49
4:2:287:ILE:CA	4:4:202:THR:HB	2.35	0.49
4:7:70:PRO:HG3	4:7:81:ASP:HB3	1.94	0.49
4:8:318:THR:HA	4:8:327:ILE:HG12	1.95	0.49
4:Y:318:THR:HA	4:Y:327:ILE:HG12	1.95	0.49
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.49
1:A:267:THR:HG21	1:A:438:PHE:HE2	1.76	0.49
1:A:471:ASP:HB3	1:A:573:GLY:O	2.12	0.49
1:A:739:ASP:OD1	1:A:740:SER:N	2.45	0.49
1:D:601:ASP:N	1:D:602:PRO:CD	2.75	0.49
1:D:715:VAL:HG12	1:D:716:LEU:O	2.12	0.49
1:D:739:ASP:OD1	1:D:740:SER:N	2.45	0.49
1:D:819:ASN:CA	2:E:90:GLY:O	2.61	0.49
1:G:97:LEU:HD13	1:G:97:LEU:N	2.28	0.49
1:G:192:VAL:O	1:G:195:TYR:HB3	2.13	0.49
1:G:251:ARG:O	1:G:263:ALA:HA	2.13	0.49
1:G:291:ILE:HA	1:G:331:LEU:CD1	2.40	0.49
1:G:429:LEU:O	1:G:433:VAL:HG23	2.12	0.49
1:G:756:THR:O	1:G:758:TYR:N	2.46	0.49
2:H:140:PHE:HB3	2:H:144:VAL:HG12	1.95	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	0.49
1:J:538:GLU:OE1	4:W:351:THR:HB	2.12	0.49
1:J:791:GLN:NE2	3:L:116:GLU:N	2.60	0.49
2:K:114:LYS:HG3	2:K:137:TRP:CZ2	2.48	0.49
1:M:95:THR:OG1	1:M:770:GLY:C	2.55	0.49
1:M:715:VAL:HG12	1:M:716:LEU:O	2.12	0.49
1:P:540:CYS:C	4:1:349:LEU:HD21	2.36	0.49
1:P:601:ASP:N	1:P:602:PRO:CD	2.75	0.49
1:P:756:THR:O	1:P:758:TYR:N	2.46	0.49
1:P:831:TRP:CH2	2:Q:42:ILE:HG21	2.39	0.49
2:Q:93:PRO:O	2:Q:97:ILE:HG13	2.13	0.49
2:Q:114:LYS:HG3	2:Q:137:TRP:CZ2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:124:PHE:CZ	4:1:132:MET:HG3	2.48	0.49
4:2:124:PHE:CZ	4:2:132:MET:HG3	2.48	0.49
4:9:318:THR:HA	4:9:327:ILE:HG12	1.95	0.49
4:W:285:CYS:O	4:Y:202:THR:HG22	2.11	0.49
4:X:318:THR:HA	4:X:327:ILE:HG12	1.95	0.49
1:A:210:GLN:C	1:A:211:SER:HG	2.17	0.49
1:A:214:MET:HA	1:A:340:ILE:CD1	2.42	0.49
1:A:410:ASN:HD22	4:8:336:LYS:HE2	1.78	0.49
1:D:192:VAL:O	1:D:195:TYR:HB3	2.13	0.49
1:D:471:ASP:HB3	1:D:573:GLY:O	2.12	0.49
1:D:543:PRO:CD	4:9:146:GLY:O	2.61	0.49
1:D:727:LEU:N	1:D:782:MLY:CE	2.70	0.49
1:D:793:ARG:O	1:D:797:PHE:N	2.39	0.49
1:D:839:MLY:N	1:D:840:PRO:CD	2.75	0.49
1:G:553:MLY:O	4:X:46:GLY:HA3	2.12	0.49
1:G:732:ILE:O	1:G:736:GLN:HG3	2.12	0.49
1:G:822:SER:OG	2:H:88:LEU:HA	2.13	0.49
1:J:278:GLN:HG3	1:J:318:GLY:H	1.75	0.49
1:J:310:TYR:CE2	1:J:320:ILE:CD1	2.94	0.49
1:J:739:ASP:OD1	1:J:740:SER:N	2.46	0.49
1:J:839:MLY:HB2	1:J:840:PRO:HD3	1.94	0.49
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.49
1:M:169:ASP:N	1:M:169:ASP:OD1	2.44	0.49
1:M:267:THR:HG21	1:M:438:PHE:HE2	1.76	0.49
1:M:486:MLY:HH22	1:M:527:GLU:CD	2.37	0.49
1:P:629:GLU:HG2	1:P:643:GLY:C	2.35	0.49
1:P:795:ARG:HH22	3:R:116:GLU:HG2	1.59	0.49
1:P:803:TYR:CA	1:P:807:VAL:HG21	2.36	0.49
4:2:318:THR:HA	4:2:327:ILE:HG12	1.95	0.49
4:3:318:THR:HA	4:3:327:ILE:HG12	1.95	0.49
4:4:318:THR:HA	4:4:327:ILE:HG12	1.95	0.49
4:6:124:PHE:CZ	4:6:132:MET:HG3	2.48	0.49
4:6:318:THR:HA	4:6:327:ILE:HG12	1.94	0.49
4:7:318:THR:HA	4:7:327:ILE:HG12	1.95	0.49
4:Z:318:THR:HA	4:Z:327:ILE:HG12	1.95	0.49
1:A:149:GLN:CD	1:A:718:ALA:H	2.20	0.49
1:A:486:MLY:HH22	1:A:527:GLU:CD	2.37	0.49
1:A:732:ILE:O	1:A:736:GLN:HG3	2.12	0.49
1:A:747:LEU:C	1:A:749:GLY:H	2.20	0.49
1:D:20:SER:HB3	1:D:23:GLU:OE1	2.13	0.49
1:D:290:GLN:HG2	1:D:331:LEU:CA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:797:PHE:HD1	3:F:146:ILE:O	1.95	0.49
1:D:839:MLY:HB2	1:D:840:PRO:HD3	1.94	0.49
2:E:123:THR:HA	3:F:19:ARG:HH12	1.78	0.49
1:G:839:MLY:N	1:G:840:PRO:CD	2.76	0.49
1:J:715:VAL:HG12	1:J:716:LEU:O	2.12	0.49
1:M:154:HIS:CD2	1:M:155:ILE:H	2.30	0.49
1:M:629:GLU:CB	1:M:645:SER:N	2.73	0.49
1:M:646:PHE:HE2	1:M:652:LEU:CG	2.25	0.49
1:P:538:GLU:HA	4:1:351:THR:H	1.77	0.49
1:P:576:GLU:CG	1:P:577:ALA:N	2.44	0.49
1:P:640:LYS:C	1:P:645:SER:HG	2.16	0.49
1:P:836:PHE:HE1	2:Q:159:HIS:HA	1.73	0.49
4:3:124:PHE:CZ	4:3:132:MET:HG3	2.48	0.49
4:4:70:PRO:HG3	4:4:81:ASP:HB3	1.94	0.49
4:4:287:ILE:CB	4:6:204:ALA:H	2.24	0.49
4:5:318:THR:HA	4:5:327:ILE:HG12	1.95	0.49
4:7:124:PHE:CZ	4:7:132:MET:HG3	2.48	0.49
4:9:124:PHE:CZ	4:9:132:MET:HG3	2.48	0.49
4:Z:124:PHE:CZ	4:Z:132:MET:HG3	2.48	0.49
1:A:192:VAL:O	1:A:195:TYR:HB3	2.13	0.49
1:A:290:GLN:HG2	1:A:331:LEU:CA	2.43	0.49
1:A:543:PRO:CD	4:8:146:GLY:O	2.61	0.49
1:A:601:ASP:N	1:A:602:PRO:CD	2.75	0.49
1:D:128:PRO:O	1:D:683:PRO:HB3	2.12	0.49
1:D:134:VAL:C	1:D:136:ASN:H	2.16	0.49
1:D:540:CYS:C	4:9:349:LEU:HD21	2.36	0.49
1:D:553:MLY:HG3	4:W:44:MET:O	2.07	0.49
2:E:114:LYS:HG3	2:E:137:TRP:CZ2	2.48	0.49
2:E:121:LEU:HA	2:E:128:PHE:CD2	2.46	0.49
1:G:20:SER:HB3	1:G:23:GLU:OE1	2.12	0.49
1:G:64:THR:CG2	1:G:65:GLU:N	2.76	0.49
1:G:128:PRO:O	1:G:683:PRO:HB3	2.12	0.49
1:G:149:GLN:NE2	1:G:763:THR:HG23	2.24	0.49
1:G:251:ARG:HB2	1:G:264:ASP:HB3	1.95	0.49
1:G:314:TYR:CZ	1:G:362:GLY:HA2	2.48	0.49
3:I:50:LEU:O	3:I:55:LYS:HB2	2.13	0.49
1:J:506:GLU:CG	1:J:760:PHE:O	2.61	0.49
1:M:168:THR:HG22	1:M:169:ASP:OD1	2.12	0.49
1:M:601:ASP:N	1:M:602:PRO:CD	2.75	0.49
1:M:739:ASP:OD1	1:M:740:SER:N	2.45	0.49
1:M:803:TYR:CE2	3:O:17:PHE:CZ	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:206:LYS:HD2	1:P:217:THR:CG2	2.17	0.49
1:P:543:PRO:CD	4:1:146:GLY:O	2.61	0.49
4:1:287:ILE:CB	4:3:203:THR:CB	2.85	0.49
4:2:148:THR:OG1	4:4:45:VAL:CG2	2.61	0.49
4:W:124:PHE:CZ	4:W:132:MET:HG3	2.48	0.49
4:Z:253:GLU:HA	4:Z:256:ARG:CG	2.42	0.49
1:A:97:LEU:HD13	1:A:97:LEU:N	2.28	0.49
1:A:173:GLN:OE1	1:A:668:HIS:HB3	2.13	0.49
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.49
1:A:642:LYS:CG	4:8:22:ALA:HA	2.38	0.49
1:A:642:LYS:CB	4:8:24:ASP:O	2.60	0.49
1:D:173:GLN:OE1	1:D:668:HIS:HB3	2.13	0.49
1:D:756:THR:O	1:D:758:TYR:N	2.45	0.49
3:F:50:LEU:O	3:F:55:LYS:HB2	2.13	0.49
1:G:797:PHE:HZ	3:I:146:ILE:HD11	1.68	0.49
1:G:829:TRP:HE1	2:H:70:GLU:CD	2.21	0.49
1:M:173:GLN:OE1	1:M:668:HIS:HB3	2.13	0.49
1:M:290:GLN:HG2	1:M:331:LEU:CA	2.43	0.49
1:M:291:ILE:HA	1:M:331:LEU:CD1	2.39	0.49
1:P:192:VAL:O	1:P:195:TYR:HB3	2.13	0.49
1:P:499:GLU:OE1	1:P:499:GLU:HA	2.13	0.49
1:P:502:GLU:CD	1:P:764:MLY:HH13	2.37	0.49
4:1:318:THR:HA	4:1:327:ILE:HG12	1.95	0.49
4:3:198:TYR:CZ	4:3:248:ILE:HG13	2.48	0.49
4:4:124:PHE:CZ	4:4:132:MET:HG3	2.48	0.49
4:4:287:ILE:CG2	4:6:204:ALA:N	2.68	0.49
4:W:70:PRO:HG3	4:W:81:ASP:HB3	1.94	0.49
4:Y:124:PHE:CZ	4:Y:132:MET:HG3	2.48	0.49
1:A:64:THR:CG2	1:A:65:GLU:N	2.76	0.49
1:A:128:PRO:O	1:A:683:PRO:HB3	2.12	0.49
1:A:251:ARG:HB2	1:A:264:ASP:HB3	1.95	0.49
1:A:553:MLY:NZ	4:V:45:VAL:CA	2.58	0.49
1:D:720:PHE:CD2	1:D:744:SER:HB3	2.48	0.49
1:D:747:LEU:HD13	1:D:782:MLY:CH2	2.18	0.49
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.49
2:E:117:LEU:HG	2:E:147:ASN:HB3	1.93	0.49
1:G:826:VAL:HG21	2:H:88:LEU:CD2	2.43	0.49
1:J:64:THR:CG2	1:J:65:GLU:N	2.76	0.49
1:J:97:LEU:HD13	1:J:97:LEU:N	2.28	0.49
1:J:251:ARG:O	1:J:263:ALA:HA	2.12	0.49
1:J:290:GLN:HG2	1:J:331:LEU:CA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:821:ARG:HH22	2:K:127:ARG:CD	2.17	0.49
1:J:830:PRO:HB3	2:K:67:MET:CE	2.39	0.49
3:L:100:GLY:O	3:L:138:ASN:HA	2.11	0.49
1:M:97:LEU:HD13	1:M:97:LEU:N	2.28	0.49
1:M:312:TYR:N	1:M:312:TYR:CD1	2.81	0.49
1:M:839:MLY:N	1:M:840:PRO:CD	2.75	0.49
2:N:114:LYS:N	2:N:146:GLY:O	2.40	0.49
1:P:405:ARG:HB2	1:P:414:THR:OG1	2.13	0.49
1:P:595:TRP:CD1	1:P:595:TRP:N	2.80	0.49
1:P:739:ASP:OD1	1:P:740:SER:N	2.46	0.49
4:4:213:LYS:O	4:4:217:CYS:HB2	2.13	0.49
4:X:124:PHE:CZ	4:X:132:MET:HG3	2.48	0.49
4:X:324:THR:O	4:Z:245:GLY:C	2.56	0.49
4:Y:198:TYR:CZ	4:Y:248:ILE:HG13	2.48	0.49
4:Z:70:PRO:HG3	4:Z:81:ASP:HB3	1.94	0.49
1:A:237:THR:HG22	1:A:238:VAL:N	2.28	0.48
1:D:154:HIS:CD2	1:D:155:ILE:H	2.30	0.48
1:D:312:TYR:N	1:D:312:TYR:CD1	2.81	0.48
2:E:93:PRO:O	2:E:97:ILE:HG13	2.13	0.48
1:G:173:GLN:OE1	1:G:668:HIS:HB3	2.13	0.48
1:G:486:MLY:HH22	1:G:527:GLU:CD	2.38	0.48
1:G:715:VAL:HG12	1:G:716:LEU:O	2.13	0.48
2:H:93:PRO:O	2:H:97:ILE:HG13	2.13	0.48
1:J:510:TRP:CH2	1:J:772:LEU:HD11	2.47	0.48
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.48
1:M:813:ILE:HG23	2:N:128:PHE:CE1	1.97	0.48
1:P:538:GLU:OE1	4:1:351:THR:HB	2.12	0.48
4:2:70:PRO:HG3	4:2:81:ASP:HB3	1.94	0.48
4:Y:70:PRO:HG3	4:Y:81:ASP:HB3	1.94	0.48
1:A:314:TYR:CZ	1:A:362:GLY:HA2	2.48	0.48
1:A:405:ARG:HB2	1:A:414:THR:OG1	2.13	0.48
1:A:720:PHE:CD2	1:A:744:SER:HB3	2.48	0.48
1:D:168:THR:HG22	1:D:169:ASP:OD1	2.12	0.48
1:D:295:MLY:HE2	1:D:332:MET:HE1	1.96	0.48
1:D:819:ASN:HB3	2:E:157:ILE:CG2	2.44	0.48
1:G:168:THR:HG22	1:G:169:ASP:OD1	2.12	0.48
1:G:267:THR:HG21	1:G:438:PHE:HE2	1.76	0.48
1:G:290:GLN:HG2	1:G:331:LEU:CA	2.43	0.48
1:J:20:SER:HB3	1:J:23:GLU:OE1	2.13	0.48
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.95	0.48
1:J:720:PHE:CD2	1:J:744:SER:HB3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:839:MLY:N	1:J:840:PRO:CD	2.75	0.48
1:M:64:THR:CG2	1:M:65:GLU:N	2.75	0.48
1:M:251:ARG:HB2	1:M:264:ASP:HB3	1.95	0.48
1:M:404:PRO:HD2	1:M:415:MLY:O	2.13	0.48
1:M:839:MLY:HB2	1:M:840:PRO:HD3	1.94	0.48
2:N:114:LYS:HG3	2:N:137:TRP:CZ2	2.48	0.48
1:P:720:PHE:CD2	1:P:744:SER:HB3	2.48	0.48
1:P:732:ILE:O	1:P:736:GLN:HG3	2.12	0.48
2:Q:117:LEU:HG	2:Q:147:ASN:HB3	1.93	0.48
4:5:120:THR:HG21	4:5:370:VAL:HG11	1.95	0.48
4:8:325:MET:HE2	4:V:244:ASP:HB3	1.94	0.48
4:9:198:TYR:CZ	4:9:248:ILE:HG13	2.48	0.48
4:V:253:GLU:HA	4:V:256:ARG:CG	2.42	0.48
4:W:198:TYR:CZ	4:W:248:ILE:HG13	2.49	0.48
4:Y:253:GLU:HA	4:Y:256:ARG:CG	2.42	0.48
1:A:20:SER:HB3	1:A:23:GLU:OE1	2.13	0.48
1:A:168:THR:HG22	1:A:169:ASP:OD1	2.13	0.48
1:G:218:LEU:HD22	1:G:222:ILE:HG13	1.95	0.48
1:G:312:TYR:N	1:G:312:TYR:CD1	2.81	0.48
1:G:410:ASN:HD22	4:V:336:LYS:HE2	1.79	0.48
1:G:476:GLU:H	1:G:476:GLU:CD	2.22	0.48
1:G:544:LYS:HD2	4:V:147:ARG:CB	2.36	0.48
2:H:121:LEU:HA	2:H:128:PHE:CD2	2.47	0.48
2:H:128:PHE:O	2:H:133:ILE:HD11	2.13	0.48
1:J:192:VAL:O	1:J:195:TYR:HB3	2.13	0.48
1:J:237:THR:HG22	1:J:238:VAL:N	2.28	0.48
1:M:20:SER:HB3	1:M:23:GLU:OE1	2.13	0.48
1:M:41:VAL:CG1	1:M:42:HIS:N	2.76	0.48
1:M:237:THR:HG22	1:M:238:VAL:N	2.28	0.48
1:M:354:LEU:HD12	1:M:354:LEU:HA	1.56	0.48
1:M:836:PHE:HE1	2:N:159:HIS:HA	1.74	0.48
2:N:140:PHE:HB3	2:N:144:VAL:HG12	1.94	0.48
1:P:642:LYS:CB	4:1:24:ASP:O	2.60	0.48
1:P:795:ARG:CB	3:R:35:ARG:NH2	2.75	0.48
1:P:804:ARG:HA	1:P:807:VAL:C	2.38	0.48
4:1:198:TYR:CZ	4:1:248:ILE:HG13	2.48	0.48
4:2:198:TYR:CZ	4:2:248:ILE:HG13	2.48	0.48
4:2:213:LYS:O	4:2:217:CYS:HB2	2.13	0.48
4:7:198:TYR:CZ	4:7:248:ILE:HG13	2.48	0.48
4:8:70:PRO:HG3	4:8:81:ASP:HB3	1.94	0.48
4:Z:198:TYR:CZ	4:Z:248:ILE:HG13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.95	0.48
1:A:541:MET:SD	4:8:345:ILE:C	2.95	0.48
1:D:549:SER:C	4:W:45:VAL:O	2.57	0.48
1:G:720:PHE:CD2	1:G:744:SER:HB3	2.48	0.48
1:G:839:MLY:HB2	1:G:840:PRO:HD3	1.94	0.48
1:J:168:THR:HG22	1:J:169:ASP:OD1	2.12	0.48
1:J:175:ILE:C	1:J:176:LEU:HD12	2.39	0.48
1:J:635:GLY:HA3	4:W:334:GLU:CG	2.30	0.48
1:J:642:LYS:CB	4:W:24:ASP:O	2.60	0.48
1:M:214:MET:HA	1:M:340:ILE:CD1	2.41	0.48
1:M:540:CYS:C	4:Z:349:LEU:HD21	2.36	0.48
2:N:128:PHE:O	2:N:133:ILE:HD11	2.13	0.48
1:P:295:MLY:HE2	1:P:332:MET:HE1	1.96	0.48
1:P:642:LYS:HB2	4:1:24:ASP:O	1.88	0.48
1:P:715:VAL:HG12	1:P:716:LEU:O	2.13	0.48
4:1:70:PRO:HG3	4:1:81:ASP:HB3	1.94	0.48
4:1:243:PRO:O	4:Y:291:LYS:HG3	2.13	0.48
4:4:198:TYR:CZ	4:4:248:ILE:HG13	2.48	0.48
4:7:253:GLU:HA	4:7:256:ARG:CG	2.42	0.48
4:X:287:ILE:CG2	4:Z:201:VAL:CG2	2.85	0.48
1:A:689:GLU:O	1:A:689:GLU:HG2	2.14	0.48
1:A:732:ILE:H	1:A:733:PRO:HD2	1.74	0.48
1:D:64:THR:CG2	1:D:65:GLU:N	2.75	0.48
1:D:175:ILE:C	1:D:176:LEU:HD12	2.39	0.48
1:D:310:TYR:CE2	1:D:320:ILE:CD1	2.95	0.48
1:D:732:ILE:HG23	1:D:747:LEU:CD1	1.04	0.48
1:G:405:ARG:HB2	1:G:414:THR:OG1	2.13	0.48
1:G:550:PHE:CE2	1:G:592:ILE:CG2	2.97	0.48
1:G:765:VAL:CG1	1:G:766:PHE:N	2.77	0.48
1:G:823:PHE:HE1	2:H:160:GLY:CA	2.27	0.48
2:H:117:LEU:HG	2:H:147:ASN:HB3	1.93	0.48
1:J:38:VAL:CG1	1:J:39:PHE:N	2.74	0.48
1:J:405:ARG:HB2	1:J:414:THR:OG1	2.13	0.48
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.48
1:J:499:GLU:OE1	1:J:499:GLU:HA	2.13	0.48
1:J:831:TRP:CH2	2:K:34:ILE:HG21	2.48	0.48
1:M:136:ASN:O	1:M:139:VAL:N	2.47	0.48
1:M:314:TYR:CZ	1:M:362:GLY:HA2	2.48	0.48
1:M:550:PHE:CE2	1:M:592:ILE:CG2	2.97	0.48
1:M:829:TRP:CH2	2:N:87:LYS:CE	2.96	0.48
3:O:50:LEU:O	3:O:55:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:38:VAL:CG1	1:P:39:PHE:N	2.74	0.48
1:P:97:LEU:HD13	1:P:97:LEU:N	2.28	0.48
1:P:759:ALA:O	1:P:766:PHE:N	2.32	0.48
4:1:173:HIS:CD2	4:2:268:GLY:HA3	2.48	0.48
4:8:198:TYR:CZ	4:8:248:ILE:HG13	2.48	0.48
4:V:70:PRO:HG3	4:V:81:ASP:HB3	1.94	0.48
4:W:213:LYS:O	4:W:217:CYS:HB2	2.13	0.48
4:X:324:THR:CB	4:Z:247:VAL:H	2.23	0.48
4:Y:213:LYS:O	4:Y:217:CYS:HB2	2.13	0.48
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.48
1:A:404:PRO:HD2	1:A:415:MLY:O	2.13	0.48
1:A:476:GLU:H	1:A:476:GLU:CD	2.22	0.48
1:A:502:GLU:CD	1:A:764:MLY:N	2.72	0.48
1:A:546:THR:CG2	1:A:547:ASP:N	2.77	0.48
1:A:550:PHE:CE2	1:A:592:ILE:CG2	2.97	0.48
1:D:251:ARG:O	1:D:263:ALA:HA	2.12	0.48
1:D:405:ARG:HB2	1:D:414:THR:OG1	2.13	0.48
1:D:795:ARG:HD2	3:F:35:ARG:NH1	2.21	0.48
1:G:747:LEU:C	1:G:749:GLY:N	2.71	0.48
1:G:752:ASP:HB2	1:G:783:LEU:HB2	1.95	0.48
1:G:795:ARG:NH2	3:I:116:GLU:CB	2.71	0.48
1:G:834:LEU:CD2	2:H:34:ILE:HG12	2.44	0.48
2:H:114:LYS:HG3	2:H:137:TRP:CZ2	2.48	0.48
1:J:248:MLY:HE2	1:J:250:ILE:HD11	1.95	0.48
1:J:544:LYS:HD2	4:W:147:ARG:CB	2.36	0.48
3:L:50:LEU:O	3:L:55:LYS:HB2	2.13	0.48
1:M:202:SER:HA	1:M:207:LYS:NZ	2.22	0.48
1:M:295:MLY:HE2	1:M:332:MET:HE1	1.96	0.48
1:M:546:THR:HG22	4:2:46:GLY:O	2.14	0.48
1:M:689:GLU:O	1:M:689:GLU:HG2	2.14	0.48
1:M:720:PHE:CD2	1:M:744:SER:HB3	2.48	0.48
2:N:121:LEU:HA	2:N:128:PHE:CD2	2.47	0.48
1:P:20:SER:HB3	1:P:23:GLU:OE1	2.13	0.48
1:P:175:ILE:C	1:P:176:LEU:HD12	2.39	0.48
1:P:617:MLY:O	1:P:620:ALA:HB3	2.14	0.48
1:P:723:ARG:HH11	1:P:723:ARG:HG3	1.78	0.48
1:P:797:PHE:CE1	3:R:146:ILE:CA	2.95	0.48
4:1:213:LYS:O	4:1:217:CYS:HB2	2.13	0.48
4:V:124:PHE:CZ	4:V:132:MET:HG3	2.48	0.48
4:V:198:TYR:CZ	4:V:248:ILE:HG13	2.48	0.48
4:X:120:THR:HG21	4:X:370:VAL:HG11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:213:LYS:O	4:Z:217:CYS:HB2	2.13	0.48
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.48
1:A:617:MLY:O	1:A:620:ALA:HB3	2.14	0.48
1:A:723:ARG:HH11	1:A:723:ARG:HG3	1.79	0.48
1:A:756:THR:O	1:A:758:TYR:N	2.46	0.48
1:D:248:MLY:HE2	1:D:250:ILE:HD11	1.96	0.48
1:D:486:MLY:HH22	1:D:527:GLU:CD	2.37	0.48
2:E:112:ILE:CG2	2:E:147:ASN:O	2.62	0.48
1:G:148:ARG:NH2	1:G:764:MLY:CH2	2.69	0.48
1:G:295:MLY:HE2	1:G:332:MET:HE1	1.96	0.48
1:G:404:PRO:HD2	1:G:415:MLY:O	2.13	0.48
1:G:793:ARG:O	1:G:797:PHE:N	2.39	0.48
1:J:173:GLN:OE1	1:J:668:HIS:HB3	2.13	0.48
1:J:642:LYS:HB2	4:W:24:ASP:O	1.88	0.48
1:J:747:LEU:C	1:J:749:GLY:H	2.20	0.48
1:M:405:ARG:HB2	1:M:414:THR:OG1	2.13	0.48
1:M:499:GLU:HA	1:M:499:GLU:OE1	2.13	0.48
1:M:541:MET:HE2	4:Z:346:LEU:HD12	1.96	0.48
1:M:804:ARG:CA	1:M:807:VAL:HG12	2.28	0.48
1:P:602:PRO:O	1:P:603:LEU:HD12	2.14	0.48
1:P:765:VAL:CG1	1:P:766:PHE:N	2.77	0.48
4:2:203:THR:CA	4:Z:287:ILE:HB	2.44	0.48
4:2:322:PRO:HB2	4:4:244:ASP:CB	2.26	0.48
4:3:70:PRO:HG3	4:3:81:ASP:HB3	1.94	0.48
4:4:250:ILE:HG23	4:4:253:GLU:HG2	1.96	0.48
1:A:218:LEU:HA	1:A:221:GLN:HG3	1.71	0.48
1:A:544:LYS:HD2	4:8:147:ARG:CB	2.37	0.48
1:A:765:VAL:CG1	1:A:766:PHE:N	2.77	0.48
1:D:218:LEU:CD2	1:D:222:ILE:CG1	2.86	0.48
1:D:410:ASN:HD22	4:9:336:LYS:HE2	1.78	0.48
1:D:544:LYS:HD2	4:9:147:ARG:CB	2.37	0.48
1:D:831:TRP:CG	2:E:51:PHE:CZ	2.99	0.48
2:E:128:PHE:O	2:E:133:ILE:HD11	2.13	0.48
1:G:154:HIS:CE1	1:G:156:PHE:CE2	3.02	0.48
1:J:314:TYR:CZ	1:J:362:GLY:HA2	2.48	0.48
1:J:546:THR:CG2	1:J:547:ASP:N	2.77	0.48
1:J:617:MLY:O	1:J:620:ALA:HB3	2.14	0.48
2:K:128:PHE:O	2:K:133:ILE:HD11	2.13	0.48
1:M:508:ILE:HG23	1:M:759:ALA:HB1	1.96	0.48
1:M:538:GLU:HA	4:Z:351:THR:H	1.77	0.48
1:M:723:ARG:HH11	1:M:723:ARG:HG3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:759:ALA:O	1:M:766:PHE:N	2.32	0.48
2:N:93:PRO:O	2:N:97:ILE:HG13	2.13	0.48
2:N:117:LEU:CB	2:N:147:ASN:ND2	2.35	0.48
1:P:406:VAL:CG1	1:P:407:GLY:N	2.77	0.48
1:P:732:ILE:H	1:P:733:PRO:CD	2.23	0.48
1:P:803:TYR:HD1	1:P:807:VAL:HG13	1.79	0.48
3:R:50:LEU:O	3:R:55:LYS:HB2	2.13	0.48
4:3:253:GLU:HA	4:3:256:ARG:CG	2.42	0.48
4:5:198:TYR:CZ	4:5:248:ILE:HG13	2.48	0.48
4:6:120:THR:HG21	4:6:370:VAL:HG11	1.95	0.48
4:7:120:THR:HG21	4:7:370:VAL:HG11	1.95	0.48
4:8:124:PHE:CZ	4:8:132:MET:HG3	2.48	0.48
4:V:285:CYS:O	4:X:202:THR:CG2	2.62	0.48
4:X:213:LYS:O	4:X:217:CYS:HB2	2.13	0.48
1:D:332:MET:O	1:D:336:SER:OG	2.27	0.48
1:D:538:GLU:HA	4:9:351:THR:H	1.77	0.48
1:D:617:MLY:O	1:D:620:ALA:HB3	2.14	0.48
2:E:114:LYS:N	2:E:146:GLY:O	2.40	0.48
1:G:617:MLY:O	1:G:620:ALA:HB3	2.14	0.48
1:G:636:LYS:O	4:V:144:ALA:HB1	2.14	0.48
1:G:798:LEU:HA	1:G:798:LEU:HD12	1.36	0.48
1:J:689:GLU:O	1:J:689:GLU:HG2	2.14	0.48
1:J:739:ASP:CB	1:J:742:LYS:CB	2.81	0.48
1:J:836:PHE:CE2	2:K:160:GLY:HA3	2.49	0.48
1:M:154:HIS:CE1	1:M:156:PHE:CE2	3.02	0.48
1:P:237:THR:HG22	1:P:238:VAL:N	2.28	0.48
1:P:248:MLY:HE2	1:P:250:ILE:HD11	1.96	0.48
1:P:541:MET:HE2	4:1:346:LEU:HD12	1.96	0.48
1:P:550:PHE:CE2	1:P:592:ILE:CG2	2.97	0.48
1:P:640:LYS:HB3	1:P:645:SER:CB	2.42	0.48
1:P:646:PHE:CE2	1:P:652:LEU:CD2	2.87	0.48
4:2:253:GLU:HA	4:2:256:ARG:CG	2.42	0.48
4:5:124:PHE:CZ	4:5:132:MET:HG3	2.48	0.48
4:V:285:CYS:O	4:X:202:THR:HG22	2.14	0.48
4:W:120:THR:HG21	4:W:370:VAL:HG11	1.95	0.48
4:X:70:PRO:HG3	4:X:81:ASP:HB3	1.94	0.48
4:X:198:TYR:CZ	4:X:248:ILE:HG13	2.48	0.48
1:A:346:ASP:O	1:A:350:ALA:N	2.46	0.48
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.48
1:D:635:GLY:HA3	4:9:334:GLU:CG	2.30	0.48
1:G:640:LYS:C	1:G:645:SER:HG	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:795:ARG:N	3:I:118:MET:HE1	2.28	0.48
1:G:810:ARG:HG2	1:G:810:ARG:NH1	2.28	0.48
1:J:10:PHE:CD2	1:J:17:LEU:HD23	2.49	0.48
1:J:149:GLN:HG2	1:J:716:LEU:HD11	1.96	0.48
1:J:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.48
1:M:206:LYS:CE	1:M:217:THR:HG23	2.29	0.48
1:M:410:ASN:HD22	4:Z:336:LYS:HE2	1.78	0.48
1:M:476:GLU:CD	1:M:476:GLU:H	2.22	0.48
1:M:725:ARG:NE	1:M:733:PRO:CB	1.95	0.48
1:M:756:THR:O	1:M:758:TYR:N	2.46	0.48
1:P:10:PHE:CD2	1:P:17:LEU:HD23	2.49	0.48
1:P:173:GLN:OE1	1:P:668:HIS:HB3	2.13	0.48
1:P:312:TYR:N	1:P:312:TYR:CD1	2.81	0.48
1:P:314:TYR:CZ	1:P:362:GLY:HA2	2.48	0.48
1:P:542:PHE:CD2	4:1:143:TYR:CD1	3.02	0.48
1:P:546:THR:CG2	1:P:547:ASP:N	2.77	0.48
1:P:546:THR:CB	4:3:46:GLY:CA	2.75	0.48
2:Q:160:GLY:O	2:Q:161:GLU:HG2	2.14	0.48
4:3:290:ARG:NH1	4:5:202:THR:CG2	2.75	0.48
4:6:213:LYS:O	4:6:217:CYS:HB2	2.13	0.48
4:6:250:ILE:HG23	4:6:253:GLU:HG2	1.96	0.48
4:7:250:ILE:HG23	4:7:253:GLU:HG2	1.96	0.48
4:X:324:THR:CG2	4:Z:247:VAL:H	2.27	0.48
1:A:675:ILE:CG2	1:A:676:ILE:N	2.74	0.47
1:A:747:LEU:C	1:A:749:GLY:N	2.71	0.47
1:A:762:HIS:CD2	1:A:762:HIS:N	2.79	0.47
1:D:406:VAL:CG1	1:D:407:GLY:N	2.77	0.47
1:G:237:THR:HG22	1:G:238:VAL:N	2.28	0.47
1:G:332:MET:O	1:G:336:SER:OG	2.27	0.47
1:G:406:VAL:CG1	1:G:407:GLY:N	2.77	0.47
1:G:747:LEU:C	1:G:749:GLY:H	2.20	0.47
1:G:836:PHE:CZ	2:H:159:HIS:HA	2.49	0.47
1:J:214:MET:HA	1:J:340:ILE:CD1	2.41	0.47
1:J:309:PRO:C	1:J:311:ASP:H	2.22	0.47
1:J:404:PRO:HD2	1:J:415:MLY:O	2.13	0.47
1:J:418:THR:CB	1:J:421:GLU:HG3	2.37	0.47
1:J:564:ASN:HD22	1:J:582:VAL:HB	1.79	0.47
1:J:792:ALA:HA	3:L:42:THR:HA	1.95	0.47
1:M:106:LEU:HD12	1:M:117:THR:HG21	1.96	0.47
1:M:542:PHE:CD2	4:Z:143:TYR:CD1	3.02	0.47
1:M:617:MLY:O	1:M:620:ALA:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:404:PRO:HD2	1:P:415:MLY:O	2.13	0.47
1:P:568:PRO:HD3	1:P:579:PHE:HA	1.96	0.47
1:P:795:ARG:CB	3:R:35:ARG:CZ	2.91	0.47
2:Q:112:ILE:CG2	2:Q:147:ASN:O	2.62	0.47
4:2:243:PRO:C	4:Z:324:THR:OG1	2.53	0.47
4:2:250:ILE:HG23	4:2:253:GLU:HG2	1.96	0.47
4:2:324:THR:CB	4:4:244:ASP:CA	2.82	0.47
4:3:120:THR:HG21	4:3:370:VAL:HG11	1.95	0.47
4:6:198:TYR:CZ	4:6:248:ILE:HG13	2.48	0.47
4:8:213:LYS:O	4:8:217:CYS:HB2	2.13	0.47
4:9:120:THR:HG21	4:9:370:VAL:HG11	1.95	0.47
4:9:213:LYS:O	4:9:217:CYS:HB2	2.13	0.47
4:V:250:ILE:HG23	4:V:253:GLU:HG2	1.96	0.47
4:W:250:ILE:HG23	4:W:253:GLU:HG2	1.96	0.47
4:Z:250:ILE:HG23	4:Z:253:GLU:HG2	1.96	0.47
1:A:540:CYS:C	4:8:349:LEU:HD21	2.36	0.47
1:A:568:PRO:HD3	1:A:579:PHE:HA	1.96	0.47
1:D:218:LEU:HA	1:D:221:GLN:H	1.79	0.47
1:D:314:TYR:CZ	1:D:362:GLY:HA2	2.48	0.47
1:D:476:GLU:H	1:D:476:GLU:CD	2.22	0.47
1:D:499:GLU:OE1	1:D:499:GLU:HA	2.13	0.47
1:D:640:LYS:HD2	1:D:646:PHE:O	2.14	0.47
1:D:783:LEU:HA	1:D:786:ILE:HB	1.97	0.47
2:E:160:GLY:O	2:E:161:GLU:HG2	2.14	0.47
1:G:106:LEU:HD12	1:G:117:THR:HG21	1.96	0.47
1:G:675:ILE:CG2	1:G:676:ILE:N	2.74	0.47
1:G:689:GLU:O	1:G:689:GLU:HG2	2.14	0.47
2:H:112:ILE:CG2	2:H:147:ASN:O	2.62	0.47
1:J:206:LYS:HD2	1:J:217:THR:CG2	2.17	0.47
1:M:599:ASN:CG	1:M:649:VAL:CB	2.80	0.47
1:M:636:LYS:O	4:Z:144:ALA:HB1	2.14	0.47
1:M:838:ILE:HG13	2:N:54:MET:SD	2.54	0.47
1:P:251:ARG:HB2	1:P:264:ASP:HB3	1.95	0.47
1:P:502:GLU:OE2	1:P:764:MLY:CE	2.62	0.47
1:P:689:GLU:O	1:P:689:GLU:HG2	2.14	0.47
1:P:786:ILE:C	1:P:787:ILE:CA	2.87	0.47
2:Q:128:PHE:O	2:Q:133:ILE:HD11	2.13	0.47
4:4:120:THR:HG21	4:4:370:VAL:HG11	1.95	0.47
4:5:250:ILE:HG23	4:5:253:GLU:HG2	1.96	0.47
4:5:253:GLU:HA	4:5:256:ARG:CG	2.42	0.47
4:8:120:THR:HG21	4:8:370:VAL:HG11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:250:ILE:HG23	4:8:253:GLU:HG2	1.96	0.47
4:9:250:ILE:HG23	4:9:253:GLU:HG2	1.96	0.47
4:X:250:ILE:HG23	4:X:253:GLU:HG2	1.96	0.47
4:Y:120:THR:HG21	4:Y:370:VAL:HG11	1.95	0.47
4:Z:120:THR:HG21	4:Z:370:VAL:HG11	1.95	0.47
1:A:10:PHE:CD2	1:A:17:LEU:HD23	2.49	0.47
1:A:106:LEU:HD12	1:A:117:THR:HG21	1.96	0.47
1:A:312:TYR:N	1:A:312:TYR:CD1	2.81	0.47
1:D:106:LEU:HD12	1:D:117:THR:HG21	1.96	0.47
1:D:602:PRO:O	1:D:603:LEU:HD12	2.14	0.47
1:D:747:LEU:C	1:D:749:GLY:N	2.72	0.47
1:D:818:TYR:CD2	2:E:90:GLY:HA2	2.49	0.47
1:D:819:ASN:HA	2:E:91:ALA:HA	1.96	0.47
1:G:122:PHE:CE2	1:G:700:VAL:HA	2.50	0.47
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.47
1:G:791:GLN:CD	3:I:116:GLU:N	2.69	0.47
2:H:160:GLY:O	2:H:161:GLU:HG2	2.15	0.47
3:I:53:PRO:O	3:I:55:LYS:HG3	2.15	0.47
1:J:41:VAL:CG1	1:J:42:HIS:N	2.75	0.47
1:J:538:GLU:HA	4:W:351:THR:H	1.77	0.47
1:M:175:ILE:C	1:M:176:LEU:HD12	2.39	0.47
1:M:795:ARG:NH1	3:O:116:GLU:CD	2.68	0.47
1:P:41:VAL:CG1	1:P:42:HIS:N	2.75	0.47
1:P:410:ASN:HD22	4:1:336:LYS:HE2	1.78	0.47
1:P:546:THR:HB	4:3:47:MET:C	2.39	0.47
1:P:793:ARG:O	1:P:797:PHE:N	2.39	0.47
1:P:804:ARG:HG2	1:P:808:GLU:CB	2.40	0.47
4:2:120:THR:HG21	4:2:370:VAL:HG11	1.95	0.47
4:V:213:LYS:O	4:V:217:CYS:HB2	2.13	0.47
4:Y:250:ILE:HG23	4:Y:253:GLU:HG2	1.96	0.47
1:A:93:MET:HE3	1:A:715:VAL:HA	1.79	0.47
1:A:218:LEU:HD22	1:A:222:ILE:HG13	1.95	0.47
1:A:406:VAL:CG1	1:A:407:GLY:N	2.77	0.47
1:A:602:PRO:O	1:A:603:LEU:HD12	2.14	0.47
1:D:176:LEU:N	1:D:176:LEU:CD1	2.75	0.47
1:D:542:PHE:CD2	4:9:143:TYR:CD1	3.02	0.47
1:D:550:PHE:CE2	1:D:592:ILE:CG2	2.97	0.47
1:D:708:ARG:O	1:D:710:GLY:N	2.47	0.47
1:G:499:GLU:OE1	1:G:499:GLU:HA	2.14	0.47
1:G:602:PRO:O	1:G:603:LEU:HD12	2.14	0.47
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:542:PHE:CD2	4:W:143:TYR:CD1	3.02	0.47
1:J:765:VAL:CG1	1:J:766:PHE:N	2.77	0.47
2:K:160:GLY:O	2:K:161:GLU:HG2	2.14	0.47
1:M:602:PRO:O	1:M:603:LEU:HD12	2.14	0.47
1:M:829:TRP:CH2	2:N:87:LYS:NZ	2.79	0.47
1:P:476:GLU:CD	1:P:476:GLU:H	2.22	0.47
1:P:830:PRO:HB2	2:Q:67:MET:SD	2.53	0.47
4:1:250:ILE:HG23	4:1:253:GLU:HG2	1.96	0.47
4:3:217:CYS:C	4:3:218:TYR:HD1	2.23	0.47
4:6:217:CYS:C	4:6:218:TYR:HD1	2.23	0.47
4:7:47:MET:HE2	4:7:47:MET:HB2	1.79	0.47
4:V:120:THR:HG21	4:V:370:VAL:HG11	1.95	0.47
1:A:122:PHE:CE2	1:A:700:VAL:HA	2.50	0.47
1:A:144:ARG:HA	1:A:144:ARG:HD2	1.78	0.47
1:A:783:LEU:HA	1:A:786:ILE:HB	1.97	0.47
1:D:221:GLN:HG2	1:D:221:GLN:H	1.47	0.47
1:D:595:TRP:N	1:D:595:TRP:CD1	2.80	0.47
2:E:163:ALA:C	2:K:22:THR:H	2.12	0.47
1:G:723:ARG:HH11	1:G:723:ARG:HG3	1.79	0.47
1:G:755:HIS:ND1	1:G:779:ARG:CZ	2.71	0.47
1:G:793:ARG:HD3	3:I:40:ASN:ND2	2.28	0.47
1:G:813:ILE:HG22	2:H:128:PHE:HE1	1.66	0.47
1:J:169:ASP:OD1	1:J:169:ASP:N	2.44	0.47
1:J:251:ARG:HB2	1:J:264:ASP:HB3	1.95	0.47
1:J:568:PRO:HD3	1:J:579:PHE:HA	1.96	0.47
1:J:640:LYS:HD2	1:J:646:PHE:O	2.14	0.47
1:J:755:HIS:N	1:J:780:ASP:OD2	2.46	0.47
1:M:801:VAL:CG2	3:O:126:LEU:HD21	2.44	0.47
2:N:112:ILE:CG2	2:N:147:ASN:O	2.62	0.47
1:P:166:MET:HE3	1:P:459:ILE:HG13	1.96	0.47
1:P:218:LEU:HA	1:P:221:GLN:H	1.80	0.47
1:P:218:LEU:HD22	1:P:222:ILE:HG13	1.95	0.47
1:P:332:MET:O	1:P:336:SER:OG	2.27	0.47
1:P:643:GLY:CA	4:1:24:ASP:OD1	2.62	0.47
1:P:829:TRP:CH2	2:Q:87:LYS:NZ	2.76	0.47
3:R:53:PRO:O	3:R:55:LYS:HG3	2.15	0.47
4:1:120:THR:HG21	4:1:370:VAL:HG11	1.95	0.47
4:2:203:THR:CG2	4:Z:288:ASP:H	2.27	0.47
4:3:213:LYS:O	4:3:217:CYS:HB2	2.13	0.47
4:3:250:ILE:HG23	4:3:253:GLU:HG2	1.96	0.47
1:A:175:ILE:C	1:A:176:LEU:HD12	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:GLU:C	1:A:762:HIS:CG	2.87	0.47
1:A:505:MLY:CB	1:A:762:HIS:N	2.77	0.47
1:A:549:SER:C	4:V:45:VAL:O	2.56	0.47
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	0.47
1:A:629:GLU:CB	1:A:645:SER:N	2.74	0.47
1:D:10:PHE:CD2	1:D:17:LEU:HD23	2.49	0.47
1:D:154:HIS:CE1	1:D:156:PHE:CE2	3.02	0.47
1:D:218:LEU:HA	1:D:221:GLN:HG3	1.71	0.47
1:D:237:THR:HG22	1:D:238:VAL:N	2.28	0.47
1:D:354:LEU:HD12	1:D:354:LEU:HA	1.56	0.47
1:D:404:PRO:HD2	1:D:415:MLY:O	2.13	0.47
1:D:689:GLU:O	1:D:689:GLU:HG2	2.14	0.47
1:D:724:TYR:CG	1:D:782:MLY:CD	2.84	0.47
1:G:84:MLY:HH13	1:G:724:TYR:CE2	2.47	0.47
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.47
1:G:568:PRO:HD3	1:G:579:PHE:HA	1.97	0.47
1:G:578:HIS:HB3	1:G:592:ILE:CD1	2.38	0.47
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.47
1:G:732:ILE:CG2	1:G:747:LEU:CD1	0.65	0.47
1:J:723:ARG:HH11	1:J:723:ARG:HG3	1.78	0.47
2:K:112:ILE:CG2	2:K:147:ASN:O	2.62	0.47
1:M:546:THR:CG2	1:M:547:ASP:N	2.77	0.47
1:M:568:PRO:HD3	1:M:579:PHE:HA	1.96	0.47
1:M:724:TYR:HD1	1:M:727:LEU:CD1	2.27	0.47
1:M:765:VAL:CG1	1:M:766:PHE:N	2.77	0.47
2:N:137:TRP:CZ3	2:N:145:ALA:N	2.81	0.47
1:P:544:LYS:HD2	4:1:147:ARG:CB	2.36	0.47
1:P:640:LYS:HD2	1:P:646:PHE:O	2.15	0.47
4:4:217:CYS:C	4:4:218:TYR:HD1	2.23	0.47
4:4:287:ILE:HG21	4:6:204:ALA:N	2.28	0.47
4:5:213:LYS:O	4:5:217:CYS:HB2	2.13	0.47
4:7:213:LYS:O	4:7:217:CYS:HB2	2.13	0.47
1:A:87:MLY:HH12	1:A:87:MLY:HD3	1.62	0.47
1:A:166:MET:HE3	1:A:459:ILE:HG13	1.97	0.47
1:A:248:MLY:HE2	1:A:250:ILE:HD11	1.95	0.47
1:A:400:ALA:HB1	1:A:606:THR:CG2	2.45	0.47
1:A:406:VAL:CG1	1:A:407:GLY:H	2.28	0.47
1:A:499:GLU:OE1	1:A:499:GLU:HA	2.13	0.47
1:A:524:GLU:HB3	1:A:528:MLY:HG2	1.96	0.47
1:A:542:PHE:CD2	4:8:143:TYR:CD1	3.01	0.47
1:A:564:ASN:HD22	1:A:582:VAL:HB	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:LYS:HD2	1:A:646:PHE:O	2.15	0.47
1:D:122:PHE:CE2	1:D:700:VAL:HA	2.50	0.47
1:D:251:ARG:HB2	1:D:264:ASP:HB3	1.95	0.47
1:D:507:GLY:O	1:D:761:GLY:CA	2.63	0.47
1:D:564:ASN:HD22	1:D:582:VAL:HB	1.79	0.47
1:D:830:PRO:HB2	2:E:51:PHE:CE1	2.49	0.47
1:G:10:PHE:CD2	1:G:17:LEU:HD23	2.49	0.47
1:G:30:MLY:HB3	1:G:31:PRO:HD2	1.97	0.47
1:G:175:ILE:C	1:G:176:LEU:HD12	2.38	0.47
1:G:206:LYS:CE	1:G:217:THR:HG23	2.30	0.47
1:G:248:MLY:HE2	1:G:250:ILE:HD11	1.95	0.47
1:G:530:MET:HA	4:V:354:GLN:CD	2.12	0.47
1:J:312:TYR:N	1:J:312:TYR:CD1	2.81	0.47
1:J:559:LEU:HD23	1:J:560:GLY:N	2.30	0.47
1:J:595:TRP:N	1:J:595:TRP:CD1	2.80	0.47
1:M:22:LYS:O	1:M:26:GLU:N	2.30	0.47
1:M:188:ASN:ND2	1:M:674:CYS:SG	2.88	0.47
1:M:206:LYS:HD2	1:M:217:THR:CG2	2.17	0.47
1:M:248:MLY:HE2	1:M:250:ILE:HD11	1.95	0.47
1:M:402:CYS:C	1:M:404:PRO:HD3	2.40	0.47
1:M:817:GLN:NE2	2:N:127:ARG:CB	2.62	0.47
2:N:160:GLY:O	2:N:161:GLU:HG2	2.14	0.47
1:P:176:LEU:N	1:P:176:LEU:CD1	2.75	0.47
1:P:309:PRO:C	1:P:311:ASP:H	2.22	0.47
1:P:310:TYR:CE2	1:P:320:ILE:CD1	2.94	0.47
1:P:406:VAL:CG1	1:P:407:GLY:H	2.28	0.47
1:P:767:PHE:CD1	1:P:772:LEU:HD13	2.50	0.47
4:1:162:ASN:OD1	4:1:277:THR:HG22	2.15	0.47
4:3:162:ASN:OD1	4:3:277:THR:HG22	2.15	0.47
4:4:288:ASP:OD2	4:6:203:THR:OG1	2.32	0.47
4:5:162:ASN:OD1	4:5:277:THR:HG22	2.15	0.47
4:6:162:ASN:OD1	4:6:277:THR:HG22	2.15	0.47
4:8:253:GLU:HA	4:8:256:ARG:CG	2.42	0.47
4:9:217:CYS:C	4:9:218:TYR:HD1	2.23	0.47
4:V:162:ASN:OD1	4:V:277:THR:HG22	2.15	0.47
4:W:162:ASN:OD1	4:W:277:THR:HG22	2.15	0.47
4:W:253:GLU:HA	4:W:256:ARG:CG	2.42	0.47
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.47
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.47
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.23	0.47
1:A:508:ILE:HD11	1:A:759:ALA:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:695:LEU:HB3	1:D:701:LEU:HD22	1.97	0.47
1:D:831:TRP:CE3	2:E:34:ILE:HD13	2.50	0.47
1:G:541:MET:HE2	4:V:346:LEU:HD12	1.96	0.47
1:J:410:ASN:HD22	4:W:336:LYS:HE2	1.78	0.47
1:J:637:LYS:HD2	4:W:144:ALA:HB3	1.20	0.47
1:J:831:TRP:HZ3	2:K:34:ILE:HG21	1.76	0.47
1:M:400:ALA:HB1	1:M:606:THR:CG2	2.45	0.47
1:M:519:LEU:N	1:M:519:LEU:CD1	2.77	0.47
1:M:783:LEU:N	1:M:783:LEU:CD1	2.78	0.47
1:P:154:HIS:CE1	1:P:156:PHE:CE2	3.02	0.47
4:1:217:CYS:C	4:1:218:TYR:HD1	2.23	0.47
4:2:217:CYS:C	4:2:218:TYR:HD1	2.23	0.47
4:7:162:ASN:OD1	4:7:277:THR:HG22	2.15	0.47
4:8:162:ASN:OD1	4:8:277:THR:HG22	2.15	0.47
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.47
1:A:136:ASN:O	1:A:139:VAL:N	2.47	0.47
1:A:402:CYS:C	1:A:404:PRO:HD3	2.40	0.47
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.96	0.47
1:A:543:PRO:HD2	4:8:146:GLY:O	2.15	0.47
1:A:550:PHE:C	4:V:46:GLY:CA	2.87	0.47
1:A:595:TRP:N	1:A:595:TRP:CD1	2.80	0.47
1:A:636:LYS:O	4:8:144:ALA:HB1	2.15	0.47
1:D:418:THR:CB	1:D:421:GLU:HG3	2.37	0.47
1:D:732:ILE:H	1:D:733:PRO:HD2	1.74	0.47
1:D:795:ARG:HE	3:F:116:GLU:CB	2.24	0.47
1:G:166:MET:HE3	1:G:459:ILE:HG13	1.97	0.47
1:G:188:ASN:ND2	1:G:674:CYS:SG	2.88	0.47
1:G:218:LEU:CD2	1:G:222:ILE:CG1	2.85	0.47
1:G:311:ASP:CB	1:G:312:TYR:CE1	2.98	0.47
1:J:218:LEU:HD22	1:J:222:ILE:HG13	1.95	0.47
1:M:82:PRO:HG2	1:M:85:TYR:CE2	2.50	0.47
1:M:122:PHE:CE2	1:M:700:VAL:HA	2.50	0.47
1:M:218:LEU:HA	1:M:221:GLN:H	1.80	0.47
1:M:559:LEU:HD23	1:M:560:GLY:N	2.30	0.47
1:P:106:LEU:HD12	1:P:117:THR:HG21	1.96	0.47
1:P:402:CYS:C	1:P:404:PRO:HD3	2.40	0.47
1:P:695:LEU:HB3	1:P:701:LEU:HD22	1.97	0.47
1:P:715:VAL:CG1	1:P:720:PHE:HB2	2.45	0.47
4:7:217:CYS:C	4:7:218:TYR:HD1	2.23	0.47
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.47
4:Y:162:ASN:OD1	4:Y:277:THR:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
1:A:206:LYS:CE	1:A:217:THR:HG23	2.29	0.47
1:D:166:MET:HE3	1:D:459:ILE:HG13	1.96	0.47
1:D:188:ASN:ND2	1:D:674:CYS:SG	2.88	0.47
1:D:214:MET:HA	1:D:340:ILE:CD1	2.41	0.47
1:D:218:LEU:HD22	1:D:222:ILE:HG13	1.95	0.47
1:D:400:ALA:HB1	1:D:606:THR:CG2	2.45	0.47
1:D:436:MLY:HE3	1:D:626:TYR:HE1	1.77	0.47
1:D:546:THR:CG2	1:D:547:ASP:N	2.77	0.47
1:D:640:LYS:HB3	1:D:645:SER:CB	2.42	0.47
1:D:646:PHE:HE2	1:D:652:LEU:CG	2.25	0.47
1:D:664:LEU:HD12	1:D:664:LEU:HA	1.53	0.47
1:D:714:ARG:HD3	1:D:766:PHE:CE2	2.50	0.47
1:D:765:VAL:CG1	1:D:766:PHE:N	2.77	0.47
1:D:798:LEU:HD23	3:F:122:GLU:HB3	1.96	0.47
1:G:148:ARG:HE	1:G:764:MLY:HH21	1.80	0.47
1:G:546:THR:CG2	1:G:547:ASP:N	2.77	0.47
1:J:106:LEU:HD12	1:J:117:THR:HG21	1.96	0.47
1:J:218:LEU:HA	1:J:221:GLN:H	1.80	0.47
1:J:402:CYS:C	1:J:404:PRO:HD3	2.40	0.47
1:J:543:PRO:HD2	4:W:146:GLY:O	2.15	0.47
1:J:710:GLY:HA2	1:J:772:LEU:HD22	0.93	0.47
2:K:117:LEU:HG	2:K:147:ASN:HB3	1.93	0.47
3:L:50:LEU:O	3:L:53:PRO:CD	2.63	0.47
1:M:10:PHE:CD2	1:M:17:LEU:HD23	2.49	0.47
1:M:229:LEU:HD12	1:M:229:LEU:HA	1.75	0.47
1:M:406:VAL:CG1	1:M:407:GLY:N	2.77	0.47
1:M:578:HIS:HB3	1:M:592:ILE:CD1	2.38	0.47
1:M:715:VAL:CG1	1:M:720:PHE:HB2	2.45	0.47
1:M:795:ARG:CD	3:O:116:GLU:OE2	2.63	0.47
1:P:649:VAL:HA	1:P:649:VAL:HG23	1.83	0.47
1:P:819:ASN:CG	2:Q:90:GLY:O	2.58	0.47
4:Z:47:MET:HE2	4:Z:47:MET:HB2	1.79	0.47
1:A:218:LEU:HA	1:A:221:GLN:H	1.79	0.46
1:A:311:ASP:CB	1:A:312:TYR:CE1	2.98	0.46
1:A:496:PHE:CE2	1:A:514:ASP:HA	2.50	0.46
1:D:543:PRO:HD2	4:9:146:GLY:O	2.15	0.46
1:D:559:LEU:HD23	1:D:560:GLY:N	2.30	0.46
1:D:568:PRO:HD3	1:D:579:PHE:HA	1.96	0.46
1:D:723:ARG:HH11	1:D:723:ARG:HG3	1.79	0.46
3:F:52:ASN:CB	3:F:53:PRO:HD3	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:406:VAL:CG1	1:G:407:GLY:H	2.28	0.46
1:G:640:LYS:HD2	1:G:646:PHE:O	2.15	0.46
1:G:695:LEU:HB3	1:G:701:LEU:HD22	1.97	0.46
1:G:783:LEU:N	1:G:783:LEU:CD1	2.78	0.46
1:J:122:PHE:CE2	1:J:700:VAL:HA	2.50	0.46
1:J:188:ASN:ND2	1:J:674:CYS:SG	2.88	0.46
1:J:202:SER:HA	1:J:207:LYS:NZ	2.22	0.46
1:M:42:HIS:O	1:M:45:GLN:O	2.33	0.46
1:M:544:LYS:HD2	4:Z:147:ARG:CB	2.36	0.46
1:M:786:ILE:C	1:M:787:ILE:HB	2.40	0.46
1:P:374:GLN:NE2	1:P:403:TYR:CE1	2.84	0.46
1:P:534:SER:HB2	4:1:354:GLN:HE22	1.56	0.46
1:P:724:TYR:HD1	1:P:727:LEU:CD1	2.27	0.46
1:P:809:ARG:CZ	2:Q:120:LEU:CD1	2.93	0.46
4:1:166:TYR:OH	4:3:64:ILE:HD13	2.15	0.46
4:2:162:ASN:OD1	4:2:277:THR:HG22	2.15	0.46
4:7:288:ASP:CG	4:9:203:THR:C	2.83	0.46
4:W:217:CYS:C	4:W:218:TYR:HD1	2.23	0.46
4:W:325:MET:SD	4:Y:244:ASP:OD2	2.73	0.46
1:A:149:GLN:HG2	1:A:719:ASP:N	2.16	0.46
1:A:640:LYS:HB3	1:A:645:SER:CB	2.42	0.46
1:A:715:VAL:HG11	1:A:720:PHE:CD1	2.50	0.46
1:D:346:ASP:O	1:D:350:ALA:N	2.46	0.46
1:D:374:GLN:NE2	1:D:403:TYR:CE1	2.84	0.46
1:D:795:ARG:NH1	3:F:116:GLU:OE2	2.40	0.46
1:D:831:TRP:CZ3	2:E:34:ILE:CG1	2.98	0.46
1:G:795:ARG:HB3	3:I:35:ARG:CZ	2.42	0.46
1:G:818:TYR:C	2:H:90:GLY:HA3	2.40	0.46
1:J:154:HIS:CE1	1:J:156:PHE:CE2	3.02	0.46
1:J:176:LEU:N	1:J:176:LEU:CD1	2.75	0.46
1:J:406:VAL:CG1	1:J:407:GLY:H	2.28	0.46
1:J:476:GLU:CD	1:J:476:GLU:H	2.22	0.46
1:J:541:MET:HE2	4:W:346:LEU:HD12	1.96	0.46
1:J:567:LYS:HZ1	4:Y:92:ASN:ND2	2.06	0.46
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	0.46
1:J:714:ARG:HD3	1:J:766:PHE:CE2	2.51	0.46
1:J:725:ARG:CG	1:J:733:PRO:HA	2.43	0.46
1:J:795:ARG:HD2	3:L:35:ARG:NH1	2.30	0.46
1:M:215:GLN:H	1:M:340:ILE:CD1	2.20	0.46
1:M:311:ASP:CB	1:M:312:TYR:CE1	2.98	0.46
1:M:496:PHE:CE2	1:M:514:ASP:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:543:PRO:HD2	4:Z:146:GLY:O	2.16	0.46
1:M:819:ASN:OD1	2:N:92:ASP:CA	2.50	0.46
1:P:188:ASN:ND2	1:P:674:CYS:SG	2.88	0.46
1:P:747:LEU:C	1:P:749:GLY:N	2.71	0.46
4:3:287:ILE:HG13	4:5:202:THR:HG22	1.89	0.46
4:3:290:ARG:NE	4:5:202:THR:HG21	2.15	0.46
4:8:217:CYS:C	4:8:218:TYR:HD1	2.22	0.46
1:A:543:PRO:CD	4:8:143:TYR:O	2.64	0.46
1:A:695:LEU:HB3	1:A:701:LEU:HD22	1.97	0.46
1:A:715:VAL:CG1	1:A:720:PHE:HB2	2.46	0.46
1:D:202:SER:HA	1:D:207:LYS:NZ	2.23	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.79	0.46
1:D:402:CYS:C	1:D:404:PRO:HD3	2.40	0.46
1:D:406:VAL:CG1	1:D:407:GLY:H	2.28	0.46
1:D:541:MET:SD	4:9:345:ILE:C	2.95	0.46
1:D:712:PRO:HG2	1:D:771:LEU:CD1	2.45	0.46
2:E:140:PHE:HA	2:E:141:PRO:HD2	1.57	0.46
1:G:42:HIS:O	1:G:45:GLN:O	2.33	0.46
1:G:144:ARG:HA	1:G:144:ARG:HD2	1.78	0.46
1:G:714:ARG:HD3	1:G:766:PHE:CE2	2.51	0.46
1:J:97:LEU:HD12	1:J:97:LEU:HA	1.67	0.46
1:J:602:PRO:O	1:J:603:LEU:HD12	2.14	0.46
1:J:768:MLY:HB2	1:J:773:GLY:HA3	1.32	0.46
2:K:88:LEU:HB3	2:K:91:ALA:HB2	1.98	0.46
3:L:52:ASN:CB	3:L:53:PRO:CD	2.92	0.46
1:M:95:THR:CB	1:M:770:GLY:N	2.76	0.46
1:M:675:ILE:CG2	1:M:676:ILE:N	2.74	0.46
1:M:831:TRP:CH2	2:N:42:ILE:HG21	2.40	0.46
1:P:265:ILE:CG2	1:P:266:GLU:N	2.79	0.46
1:P:636:LYS:O	4:1:144:ALA:HB1	2.14	0.46
1:P:715:VAL:HG11	1:P:720:PHE:CD1	2.50	0.46
1:P:767:PHE:CD2	1:P:772:LEU:CD2	2.99	0.46
1:A:82:PRO:HG2	1:A:85:TYR:CE2	2.50	0.46
1:A:188:ASN:ND2	1:A:674:CYS:SG	2.88	0.46
1:A:529:PRO:HB2	4:8:354:GLN:HB3	1.98	0.46
1:A:783:LEU:N	1:A:783:LEU:CD1	2.79	0.46
1:D:541:MET:HE2	4:9:346:LEU:HD12	1.96	0.46
1:D:659:MLY:HD2	1:D:659:MLY:HH22	1.42	0.46
1:D:701:LEU:HA	1:D:701:LEU:HD12	1.55	0.46
3:F:52:ASN:CB	3:F:53:PRO:CD	2.92	0.46
1:G:346:ASP:O	1:G:350:ALA:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:400:ALA:HB1	1:G:606:THR:CG2	2.45	0.46
1:G:402:CYS:C	1:G:404:PRO:HD3	2.40	0.46
1:G:496:PHE:CE2	1:G:514:ASP:HA	2.50	0.46
1:J:265:ILE:CG2	1:J:266:GLU:N	2.79	0.46
1:J:640:LYS:HB3	1:J:645:SER:CB	2.42	0.46
1:J:695:LEU:HB3	1:J:701:LEU:HD22	1.97	0.46
1:J:795:ARG:HA	3:L:118:MET:HE1	1.96	0.46
1:J:810:ARG:HG2	1:J:810:ARG:NH1	2.29	0.46
3:L:53:PRO:O	3:L:55:LYS:HG3	2.15	0.46
1:M:309:PRO:C	1:M:311:ASP:H	2.22	0.46
1:M:640:LYS:HD2	1:M:646:PHE:O	2.15	0.46
1:M:715:VAL:HG11	1:M:720:PHE:CD1	2.50	0.46
1:M:747:LEU:C	1:M:749:GLY:N	2.71	0.46
2:N:140:PHE:HA	2:N:141:PRO:HD2	1.56	0.46
1:P:543:PRO:HD2	4:1:146:GLY:O	2.15	0.46
1:P:564:ASN:HD22	1:P:582:VAL:HB	1.79	0.46
4:9:162:ASN:OD1	4:9:277:THR:HG22	2.15	0.46
4:V:217:CYS:C	4:V:218:TYR:HD1	2.23	0.46
4:X:217:CYS:C	4:X:218:TYR:HD1	2.23	0.46
1:A:519:LEU:N	1:A:519:LEU:CD1	2.77	0.46
1:A:714:ARG:HD3	1:A:766:PHE:CE2	2.51	0.46
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.46
1:D:311:ASP:CB	1:D:312:TYR:CE1	2.98	0.46
1:D:506:GLU:CG	1:D:764:MLY:HE2	2.46	0.46
1:D:724:TYR:HD1	1:D:727:LEU:CD1	2.27	0.46
1:D:762:HIS:CD2	1:D:762:HIS:N	2.79	0.46
1:D:799:MET:SD	3:F:32:ASP:OD2	2.74	0.46
1:G:374:GLN:NE2	1:G:403:TYR:CE1	2.84	0.46
1:G:543:PRO:HD2	4:V:146:GLY:O	2.16	0.46
1:G:813:ILE:CG2	2:H:128:PHE:HZ	2.09	0.46
1:J:166:MET:HE3	1:J:459:ILE:HG13	1.96	0.46
1:M:411:GLU:H	4:Z:333:PRO:HB2	1.81	0.46
1:P:322:VAL:HB	1:P:325:ILE:HG13	1.98	0.46
1:P:400:ALA:HB1	1:P:606:THR:CG2	2.45	0.46
1:A:42:HIS:O	1:A:45:GLN:O	2.33	0.46
1:A:540:CYS:N	4:8:349:LEU:HD11	2.31	0.46
1:D:326:ASP:O	1:D:330:GLU:HG2	2.16	0.46
1:D:524:GLU:HB3	1:D:528:MLY:HG2	1.97	0.46
1:D:543:PRO:CD	4:9:143:TYR:O	2.64	0.46
1:D:709:LYS:O	1:D:710:GLY:HA2	2.15	0.46
2:E:88:LEU:HB3	2:E:91:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:206:LYS:HD3	1:G:217:THR:OG1	2.16	0.46
1:G:218:LEU:HA	1:G:221:GLN:H	1.79	0.46
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.46
1:G:524:GLU:HB3	1:G:528:MLY:HG2	1.96	0.46
3:I:50:LEU:O	3:I:53:PRO:CD	2.63	0.46
1:J:664:LEU:HD12	1:J:664:LEU:HA	1.53	0.46
1:M:524:GLU:HB3	1:M:528:MLY:HG2	1.96	0.46
1:M:529:PRO:HB2	4:Z:354:GLN:HB3	1.98	0.46
1:M:540:CYS:N	4:Z:349:LEU:HD11	2.31	0.46
3:O:50:LEU:O	3:O:53:PRO:CD	2.63	0.46
1:P:529:PRO:HB2	4:1:354:GLN:HB3	1.98	0.46
1:P:549:SER:CB	4:3:43:VAL:HG11	2.45	0.46
1:P:737:PHE:CZ	3:R:89:GLU:OE1	2.68	0.46
1:P:803:TYR:CD1	1:P:807:VAL:HG11	2.47	0.46
4:5:217:CYS:C	4:5:218:TYR:HD1	2.23	0.46
4:V:6:THR:HG22	4:V:101:HIS:HA	1.98	0.46
4:Z:6:THR:HG22	4:Z:101:HIS:HA	1.98	0.46
1:A:41:VAL:CG1	1:A:42:HIS:N	2.76	0.46
1:A:559:LEU:HD23	1:A:560:GLY:N	2.30	0.46
1:A:665:ARG:C	1:A:667:THR:N	2.74	0.46
1:A:725:ARG:CG	1:A:733:PRO:HA	2.43	0.46
1:D:550:PHE:C	4:W:46:GLY:CA	2.88	0.46
1:D:636:LYS:O	4:9:144:ALA:HB1	2.15	0.46
1:D:637:LYS:HD2	4:9:144:ALA:HB3	1.20	0.46
3:F:53:PRO:O	3:F:55:LYS:HG3	2.15	0.46
1:G:265:ILE:CG2	1:G:266:GLU:N	2.79	0.46
1:G:519:LEU:N	1:G:519:LEU:CD1	2.77	0.46
1:G:529:PRO:HB2	4:V:354:GLN:HB3	1.98	0.46
1:G:542:PHE:CD2	4:V:143:TYR:CD1	3.03	0.46
1:G:595:TRP:N	1:G:595:TRP:CD1	2.80	0.46
1:G:642:LYS:CB	4:V:24:ASP:O	2.60	0.46
1:J:84:MLY:HH23	1:J:719:ASP:O	2.11	0.46
1:J:139:VAL:HG12	1:J:143:TYR:HD2	1.81	0.46
2:K:137:TRP:CA	2:K:145:ALA:HB2	2.37	0.46
1:M:166:MET:HE3	1:M:459:ILE:HG13	1.96	0.46
1:M:322:VAL:HB	1:M:325:ILE:HG13	1.98	0.46
1:M:335:ASP:OD1	1:M:348:MLY:NZ	2.49	0.46
1:M:374:GLN:NE2	1:M:403:TYR:CE1	2.84	0.46
1:M:406:VAL:CG1	1:M:407:GLY:H	2.28	0.46
1:M:543:PRO:CD	4:Z:143:TYR:O	2.64	0.46
1:M:695:LEU:HB3	1:M:701:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:95:THR:O	1:P:770:GLY:CA	2.63	0.46
1:P:122:PHE:CE2	1:P:700:VAL:HA	2.50	0.46
1:P:354:LEU:HD12	1:P:354:LEU:HA	1.56	0.46
1:P:411:GLU:H	4:1:333:PRO:HB2	1.81	0.46
1:P:418:THR:CB	1:P:421:GLU:HG3	2.37	0.46
1:P:559:LEU:HD23	1:P:560:GLY:N	2.30	0.46
1:P:803:TYR:CE2	3:R:17:PHE:CZ	3.04	0.46
4:8:6:THR:HG22	4:8:101:HIS:HA	1.98	0.46
4:8:288:ASP:CG	4:V:203:THR:C	2.83	0.46
4:9:288:ASP:CG	4:W:203:THR:C	2.84	0.46
1:A:206:LYS:HD3	1:A:217:THR:OG1	2.16	0.46
1:A:361:TYR:O	1:A:364:LEU:HB2	2.16	0.46
1:A:835:PHE:O	1:A:839:MLY:N	2.49	0.46
1:D:82:PRO:HG2	1:D:85:TYR:CE2	2.50	0.46
1:D:361:TYR:O	1:D:364:LEU:HB2	2.16	0.46
1:D:727:LEU:H	1:D:782:MLY:HE2	1.66	0.46
1:G:335:ASP:OD1	1:G:348:MLY:NZ	2.49	0.46
1:G:540:CYS:N	4:V:349:LEU:HD11	2.31	0.46
1:G:665:ARG:C	1:G:667:THR:N	2.74	0.46
1:G:784:ALA:O	1:G:788:THR:CA	2.62	0.46
1:J:311:ASP:CB	1:J:312:TYR:CE1	2.98	0.46
1:J:374:GLN:NE2	1:J:403:TYR:CE1	2.84	0.46
1:J:400:ALA:HB1	1:J:606:THR:CG2	2.45	0.46
1:J:540:CYS:N	4:W:349:LEU:HD11	2.30	0.46
1:J:659:MLY:HD2	1:J:659:MLY:HH22	1.42	0.46
1:J:715:VAL:CG1	1:J:720:PHE:HB2	2.46	0.46
1:M:817:GLN:CG	2:N:127:ARG:CD	2.93	0.46
1:P:335:ASP:OD1	1:P:348:MLY:NZ	2.49	0.46
4:2:366:GLY:O	4:2:369:ILE:HG22	2.16	0.46
4:8:190:MET:O	4:8:194:THR:HG23	2.16	0.46
4:8:366:GLY:O	4:8:369:ILE:HG22	2.16	0.46
4:9:287:ILE:CB	4:W:204:ALA:H	2.13	0.46
1:A:629:GLU:HB3	1:A:643:GLY:C	2.41	0.46
1:D:42:HIS:O	1:D:45:GLN:O	2.33	0.46
1:D:106:LEU:HD12	1:D:106:LEU:HA	1.79	0.46
1:D:206:LYS:HD3	1:D:217:THR:OG1	2.16	0.46
1:D:643:GLY:CA	4:9:24:ASP:OD1	2.62	0.46
1:D:727:LEU:HD11	1:D:782:MLY:HD3	1.73	0.46
1:D:800:ARG:C	3:F:149:VAL:CG2	2.83	0.46
1:G:322:VAL:HB	1:G:325:ILE:HG13	1.98	0.46
1:G:559:LEU:HD23	1:G:560:GLY:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:612:GLN:NE2	1:G:627:GLY:H	2.14	0.46
1:G:715:VAL:CG1	1:G:720:PHE:HB2	2.46	0.46
1:J:361:TYR:O	1:J:364:LEU:HB2	2.16	0.46
1:J:529:PRO:HB2	4:W:354:GLN:HB3	1.98	0.46
1:J:541:MET:SD	4:W:345:ILE:C	2.95	0.46
1:M:206:LYS:HD3	1:M:217:THR:OG1	2.16	0.46
1:M:361:TYR:O	1:M:364:LEU:HB2	2.16	0.46
1:M:564:ASN:HD22	1:M:582:VAL:HB	1.79	0.46
3:O:53:PRO:O	3:O:55:LYS:HG3	2.15	0.46
1:P:17:LEU:HA	1:P:17:LEU:HD12	1.68	0.46
1:P:278:GLN:HE21	1:P:278:GLN:HB3	1.42	0.46
1:P:714:ARG:HD3	1:P:766:PHE:CE2	2.50	0.46
4:1:287:ILE:HG21	4:3:203:THR:CA	2.43	0.46
4:2:6:THR:HG22	4:2:101:HIS:HA	1.98	0.46
4:4:162:ASN:OD1	4:4:277:THR:HG22	2.15	0.46
4:4:324:THR:N	4:6:244:ASP:HA	2.22	0.46
4:V:366:GLY:O	4:V:369:ILE:HG22	2.16	0.46
4:X:6:THR:HG22	4:X:101:HIS:HA	1.98	0.46
4:X:324:THR:O	4:Z:245:GLY:CA	2.64	0.46
4:X:366:GLY:O	4:X:369:ILE:HG22	2.16	0.46
1:A:374:GLN:NE2	1:A:403:TYR:CE1	2.84	0.46
1:D:136:ASN:O	1:D:139:VAL:N	2.47	0.46
1:D:411:GLU:H	4:9:333:PRO:HB2	1.80	0.46
1:D:732:ILE:CD1	1:D:782:MLY:CH2	2.94	0.46
1:G:84:MLY:HH12	1:G:715:VAL:CG2	2.45	0.46
1:G:791:GLN:HE22	3:I:115:GLY:HA2	1.66	0.46
1:G:829:TRP:CZ2	2:H:83:MET:CE	2.98	0.46
1:J:82:PRO:HG2	1:J:85:TYR:CE2	2.50	0.46
1:J:206:LYS:HD3	1:J:217:THR:OG1	2.16	0.46
1:J:747:LEU:C	1:J:749:GLY:N	2.71	0.46
1:M:278:GLN:HE21	1:M:278:GLN:HB3	1.42	0.46
1:M:346:ASP:O	1:M:350:ALA:N	2.45	0.46
1:M:436:MLY:HE3	1:M:626:TYR:HE1	1.77	0.46
1:M:817:GLN:HB3	2:N:127:ARG:CD	2.46	0.46
2:N:88:LEU:HB3	2:N:91:ALA:HB2	1.98	0.46
1:P:326:ASP:O	1:P:330:GLU:HG2	2.16	0.46
1:P:418:THR:CG2	1:P:419:VAL:N	2.79	0.46
1:P:543:PRO:CD	4:1:143:TYR:O	2.64	0.46
2:Q:88:LEU:HB3	2:Q:91:ALA:HB2	1.98	0.46
4:1:112:PRO:HG3	4:2:195:GLU:C	2.38	0.46
4:1:253:GLU:HA	4:1:256:ARG:CG	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:324:THR:OG1	4:4:244:ASP:HB3	2.16	0.46
4:4:6:THR:HG22	4:4:101:HIS:HA	1.98	0.46
4:4:253:GLU:HA	4:4:256:ARG:CG	2.42	0.46
4:V:190:MET:O	4:V:194:THR:HG23	2.16	0.46
1:A:30:MLY:HB3	1:A:31:PRO:HD2	1.97	0.45
1:A:99:GLU:N	1:A:100:PRO:CD	2.80	0.45
1:A:309:PRO:C	1:A:311:ASP:H	2.22	0.45
1:A:464:ILE:CG2	1:A:465:ALA:N	2.79	0.45
1:D:464:ILE:CG2	1:D:465:ALA:N	2.79	0.45
1:D:715:VAL:CG1	1:D:720:PHE:HB2	2.46	0.45
1:G:82:PRO:HG2	1:G:85:TYR:CE2	2.51	0.45
1:G:640:LYS:HB3	1:G:645:SER:CB	2.42	0.45
1:G:798:LEU:CG	3:I:122:GLU:HB3	2.39	0.45
1:J:42:HIS:O	1:J:45:GLN:O	2.33	0.45
1:J:335:ASP:OD1	1:J:348:MLY:NZ	2.49	0.45
1:J:346:ASP:O	1:J:350:ALA:N	2.46	0.45
1:J:524:GLU:HB3	1:J:528:MLY:HG2	1.97	0.45
1:J:710:GLY:O	1:J:772:LEU:HB3	2.15	0.45
1:J:821:ARG:HH12	2:K:127:ARG:NE	2.13	0.45
3:O:52:ASN:CB	3:O:53:PRO:CD	2.92	0.45
1:P:311:ASP:CB	1:P:312:TYR:CE1	2.98	0.45
1:P:701:LEU:HD12	1:P:701:LEU:HA	1.55	0.45
1:P:835:PHE:O	1:P:839:MLY:N	2.49	0.45
4:1:246:GLN:HA	4:Y:324:THR:HG1	1.74	0.45
4:2:204:ALA:H	4:Z:287:ILE:HG22	1.75	0.45
1:A:265:ILE:CG2	1:A:266:GLU:N	2.79	0.45
1:A:701:LEU:HD12	1:A:701:LEU:HA	1.55	0.45
1:D:139:VAL:HG12	1:D:143:TYR:HD2	1.81	0.45
1:D:206:LYS:CE	1:D:217:THR:HG23	2.30	0.45
1:D:322:VAL:HB	1:D:325:ILE:HG13	1.98	0.45
1:D:418:THR:CG2	1:D:419:VAL:N	2.79	0.45
1:D:723:ARG:CG	1:D:723:ARG:NH1	2.80	0.45
2:E:114:LYS:CG	2:E:146:GLY:HA2	2.46	0.45
2:E:137:TRP:CZ3	2:E:145:ALA:N	2.81	0.45
1:G:664:LEU:HD12	1:G:664:LEU:HA	1.53	0.45
2:H:88:LEU:HB3	2:H:91:ALA:HB2	1.98	0.45
2:H:112:ILE:O	2:H:148:VAL:HA	2.17	0.45
1:J:278:GLN:HE21	1:J:278:GLN:HB3	1.42	0.45
1:J:464:ILE:CG2	1:J:465:ALA:N	2.80	0.45
1:J:485:GLU:OE1	1:J:583:HIS:ND1	2.49	0.45
1:J:667:THR:O	1:J:669:PRO:HD3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:818:TYR:O	2:K:90:GLY:HA3	2.16	0.45
1:M:136:ASN:HA	1:M:137:PRO:HD3	1.50	0.45
1:M:265:ILE:CG2	1:M:266:GLU:N	2.79	0.45
1:M:642:LYS:CB	4:Z:24:ASP:O	2.60	0.45
1:M:732:ILE:CG2	1:M:747:LEU:CD1	0.65	0.45
1:M:829:TRP:CD2	2:N:87:LYS:HE2	2.49	0.45
1:P:221:GLN:HG2	1:P:221:GLN:H	1.47	0.45
1:P:488:GLN:O	1:P:491:PHE:HB3	2.17	0.45
1:P:496:PHE:CE2	1:P:514:ASP:HA	2.50	0.45
1:P:540:CYS:N	4:1:349:LEU:HD11	2.31	0.45
2:Q:114:LYS:CG	2:Q:146:GLY:HA2	2.46	0.45
4:3:32:PRO:HB2	4:3:34:ILE:HD11	1.98	0.45
4:5:223:PHE:CD2	4:5:259:GLU:HG3	2.52	0.45
4:5:366:GLY:O	4:5:369:ILE:HG22	2.16	0.45
4:6:190:MET:O	4:6:194:THR:HG23	2.16	0.45
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.45
1:A:322:VAL:HB	1:A:325:ILE:HG13	1.98	0.45
1:A:642:LYS:NZ	4:8:340:TRP:O	2.50	0.45
1:D:476:GLU:OE2	1:D:598:MLY:HH13	2.16	0.45
1:G:310:TYR:CE2	1:G:320:ILE:CD1	2.94	0.45
1:G:642:LYS:HB2	4:V:24:ASP:O	1.89	0.45
1:J:839:MLY:HH13	2:K:159:HIS:CD2	2.51	0.45
1:M:99:GLU:N	1:M:100:PRO:CD	2.80	0.45
1:M:326:ASP:O	1:M:330:GLU:HG2	2.16	0.45
1:M:629:GLU:HB3	1:M:643:GLY:C	2.41	0.45
1:M:725:ARG:CG	1:M:733:PRO:HA	2.43	0.45
1:M:794:CYS:O	1:M:797:PHE:HB3	2.17	0.45
2:N:114:LYS:CG	2:N:146:GLY:HA2	2.46	0.45
1:P:346:ASP:O	1:P:350:ALA:N	2.46	0.45
1:P:578:HIS:HB3	1:P:592:ILE:CD1	2.38	0.45
1:P:783:LEU:N	1:P:783:LEU:CD1	2.78	0.45
4:7:190:MET:O	4:7:194:THR:HG23	2.16	0.45
4:W:190:MET:O	4:W:194:THR:HG23	2.16	0.45
4:Y:32:PRO:HB2	4:Y:34:ILE:HD11	1.98	0.45
1:A:310:TYR:CE2	1:A:320:ILE:CD1	2.94	0.45
1:A:322:VAL:CG1	1:A:325:ILE:HD11	2.47	0.45
1:A:330:GLU:O	1:A:333:ALA:HB3	2.17	0.45
2:E:112:ILE:O	2:E:148:VAL:HA	2.17	0.45
1:G:84:MLY:HH12	1:G:715:VAL:HG21	1.97	0.45
1:G:568:PRO:CG	1:G:578:HIS:H	2.30	0.45
1:G:632:GLY:HA3	1:G:643:GLY:N	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:661:MET:HE3	1:G:661:MET:HB3	1.74	0.45
1:G:834:LEU:CD2	2:H:34:ILE:CD1	2.94	0.45
1:J:30:MLY:HB3	1:J:31:PRO:HD2	1.97	0.45
1:J:179:GLY:O	1:J:185:LYS:HE2	2.17	0.45
1:J:326:ASP:O	1:J:330:GLU:HG2	2.16	0.45
1:J:732:ILE:H	1:J:733:PRO:HD2	1.74	0.45
1:J:818:TYR:HB3	2:K:90:GLY:CA	2.47	0.45
1:J:835:PHE:O	1:J:839:MLY:N	2.49	0.45
1:M:218:LEU:CD2	1:M:222:ILE:CG1	2.86	0.45
1:M:330:GLU:O	1:M:333:ALA:HB3	2.16	0.45
1:M:642:LYS:NZ	4:Z:340:TRP:O	2.50	0.45
2:N:117:LEU:CG	2:N:147:ASN:OD1	2.52	0.45
1:P:139:VAL:HG12	1:P:143:TYR:HD2	1.81	0.45
1:P:186:THR:O	1:P:190:MLY:HG2	2.17	0.45
1:P:206:LYS:HD3	1:P:217:THR:OG1	2.16	0.45
1:P:296:MLY:O	1:P:299:LEU:HB2	2.17	0.45
1:P:436:MLY:HE3	1:P:626:TYR:HE1	1.77	0.45
1:P:732:ILE:CG2	1:P:747:LEU:CD1	0.65	0.45
1:P:786:ILE:O	1:P:789:ALA:CA	2.65	0.45
1:P:806:MET:O	1:P:807:VAL:CG2	2.64	0.45
1:P:834:LEU:HD22	2:Q:34:ILE:HD13	1.98	0.45
2:Q:112:ILE:O	2:Q:148:VAL:HA	2.16	0.45
2:Q:144:VAL:HG12	2:Q:153:ILE:HD13	1.93	0.45
4:1:201:VAL:CB	4:Y:287:ILE:HG13	2.46	0.45
4:3:366:GLY:O	4:3:369:ILE:HG22	2.16	0.45
4:4:190:MET:O	4:4:194:THR:HG23	2.16	0.45
4:4:287:ILE:HG13	4:6:202:THR:HA	1.40	0.45
4:5:6:THR:HG22	4:5:101:HIS:HA	1.98	0.45
4:6:6:THR:HG22	4:6:101:HIS:HA	1.97	0.45
4:9:190:MET:O	4:9:194:THR:HG23	2.16	0.45
4:Z:223:PHE:CD2	4:Z:259:GLU:HG3	2.52	0.45
4:Z:366:GLY:O	4:Z:369:ILE:HG22	2.16	0.45
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.95	0.45
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	0.45
1:D:144:ARG:HA	1:D:144:ARG:HD2	1.78	0.45
1:D:179:GLY:O	1:D:185:LYS:HE2	2.17	0.45
1:D:335:ASP:OD1	1:D:348:MLY:NZ	2.49	0.45
1:D:798:LEU:HD12	1:D:798:LEU:HA	1.36	0.45
1:D:810:ARG:HG2	1:D:810:ARG:NH1	2.29	0.45
1:G:99:GLU:N	1:G:100:PRO:CD	2.80	0.45
1:G:330:GLU:O	1:G:333:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:723:ARG:CG	1:G:723:ARG:NH1	2.80	0.45
1:G:739:ASP:OD1	1:G:739:ASP:C	2.58	0.45
2:H:137:TRP:CZ3	2:H:145:ALA:N	2.81	0.45
1:J:55:MLY:HH23	1:J:60:VAL:HG22	1.99	0.45
1:J:636:LYS:O	4:W:144:ALA:HB1	2.14	0.45
1:J:639:GLY:CA	4:W:344:SER:O	2.39	0.45
1:J:665:ARG:C	1:J:667:THR:N	2.74	0.45
1:J:733:PRO:O	1:J:737:PHE:CE1	2.53	0.45
1:J:768:MLY:HH12	1:J:775:LEU:HB2	1.99	0.45
1:J:794:CYS:O	1:J:797:PHE:HB3	2.17	0.45
1:M:724:TYR:HE1	1:M:776:GLU:N	2.14	0.45
1:P:42:HIS:O	1:P:45:GLN:O	2.33	0.45
1:P:82:PRO:HG2	1:P:85:TYR:CE2	2.50	0.45
1:P:361:TYR:O	1:P:364:LEU:HB2	2.16	0.45
1:P:408:VAL:HG22	1:P:636:LYS:HG2	1.51	0.45
1:P:524:GLU:HB3	1:P:528:MLY:HG2	1.97	0.45
1:P:667:THR:O	1:P:669:PRO:HD3	2.16	0.45
1:P:732:ILE:H	1:P:733:PRO:HD2	1.74	0.45
4:1:223:PHE:CD2	4:1:259:GLU:HG3	2.52	0.45
4:2:202:THR:C	4:Z:287:ILE:CG2	2.79	0.45
4:6:253:GLU:HA	4:6:256:ARG:CG	2.42	0.45
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.45
4:Y:6:THR:HG22	4:Y:101:HIS:HA	1.98	0.45
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.45
1:A:476:GLU:OE2	1:A:598:MLY:HH13	2.17	0.45
1:A:506:GLU:CB	1:A:760:PHE:C	2.57	0.45
1:A:643:GLY:N	4:8:24:ASP:CA	2.46	0.45
1:D:296:MLY:O	1:D:299:LEU:HB2	2.17	0.45
1:D:797:PHE:HD1	3:F:146:ILE:CG2	2.15	0.45
1:D:831:TRP:CE2	2:E:51:PHE:CE2	2.96	0.45
1:G:14:ALA:N	1:G:15:PRO:HD2	2.32	0.45
1:G:88:ILE:HG22	1:G:90:ASP:C	2.42	0.45
1:G:186:THR:O	1:G:190:MLY:HG2	2.17	0.45
1:G:476:GLU:OE2	1:G:598:MLY:HH13	2.17	0.45
1:G:629:GLU:HB3	1:G:643:GLY:C	2.41	0.45
1:J:642:LYS:NZ	4:W:340:TRP:O	2.50	0.45
1:J:732:ILE:HG23	1:J:747:LEU:HD12	0.95	0.45
1:J:783:LEU:N	1:J:783:LEU:CD1	2.78	0.45
2:K:137:TRP:CA	2:K:145:ALA:CB	2.82	0.45
1:M:87:MLY:HH12	1:M:87:MLY:HD3	1.61	0.45
1:M:576:GLU:CG	1:M:577:ALA:N	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:714:ARG:HD3	1:M:766:PHE:CE2	2.51	0.45
1:M:810:ARG:HG2	1:M:810:ARG:NH1	2.29	0.45
1:P:202:SER:HB2	1:P:207:LYS:HZ1	1.81	0.45
1:P:218:LEU:HA	1:P:221:GLN:HG3	1.71	0.45
1:P:464:ILE:CG2	1:P:465:ALA:N	2.80	0.45
1:P:485:GLU:OE1	1:P:583:HIS:ND1	2.49	0.45
1:P:599:ASN:OD1	1:P:649:VAL:C	2.60	0.45
4:1:190:MET:O	4:1:194:THR:HG23	2.16	0.45
4:2:287:ILE:HG23	4:4:202:THR:CG2	2.28	0.45
4:6:366:GLY:O	4:6:369:ILE:HG22	2.16	0.45
4:7:366:GLY:O	4:7:369:ILE:HG22	2.16	0.45
4:W:32:PRO:HB2	4:W:34:ILE:HD11	1.98	0.45
1:A:139:VAL:HG12	1:A:143:TYR:HD2	1.81	0.45
1:A:296:MLY:O	1:A:299:LEU:HB2	2.17	0.45
1:A:732:ILE:CG2	1:A:747:LEU:CD1	0.65	0.45
1:D:186:THR:O	1:D:190:MLY:HG2	2.17	0.45
1:D:278:GLN:HE21	1:D:278:GLN:HB3	1.42	0.45
1:D:538:GLU:CA	4:9:351:THR:N	2.69	0.45
1:D:712:PRO:CB	1:D:771:LEU:HB2	2.39	0.45
1:D:783:LEU:N	1:D:783:LEU:CD1	2.78	0.45
1:G:226:ASN:N	1:G:227:PRO:HD2	2.32	0.45
1:G:794:CYS:O	1:G:797:PHE:HB3	2.17	0.45
1:J:296:MLY:O	1:J:299:LEU:HB2	2.17	0.45
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.45
1:J:406:VAL:CG1	1:J:407:GLY:N	2.77	0.45
1:J:418:THR:CG2	1:J:419:VAL:N	2.79	0.45
1:J:629:GLU:HB3	1:J:643:GLY:C	2.41	0.45
1:M:568:PRO:CG	1:M:578:HIS:H	2.30	0.45
1:M:803:TYR:CE2	3:O:17:PHE:HE2	2.32	0.45
1:P:214:MET:HA	1:P:340:ILE:CD1	2.41	0.45
1:P:642:LYS:NZ	4:1:340:TRP:O	2.50	0.45
1:P:792:ALA:HB1	3:R:42:THR:CA	2.46	0.45
1:P:794:CYS:O	1:P:797:PHE:HB3	2.17	0.45
4:1:32:PRO:HB2	4:1:34:ILE:HD11	1.98	0.45
4:2:322:PRO:HB3	4:4:244:ASP:HB3	1.77	0.45
4:7:287:ILE:HA	4:9:202:THR:HG21	1.59	0.45
1:A:103:LEU:HD22	1:A:692:LEU:HG	1.98	0.45
1:A:724:TYR:HD1	1:A:727:LEU:CD1	2.27	0.45
1:A:725:ARG:HA	1:A:732:ILE:HG22	1.99	0.45
1:D:332:MET:H	1:D:332:MET:HG2	1.52	0.45
1:D:411:GLU:H	4:9:333:PRO:CB	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:496:PHE:CE2	1:D:514:ASP:HA	2.50	0.45
1:D:519:LEU:N	1:D:519:LEU:CD1	2.77	0.45
1:D:529:PRO:HB2	4:9:354:GLN:HB3	1.98	0.45
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
1:G:361:TYR:O	1:G:364:LEU:HB2	2.16	0.45
1:G:464:ILE:CG2	1:G:465:ALA:N	2.80	0.45
1:G:725:ARG:HA	1:G:732:ILE:HG22	1.99	0.45
1:G:796:GLY:HA2	3:I:35:ARG:CZ	2.43	0.45
1:J:173:GLN:HG3	1:J:670:HIS:HD2	1.82	0.45
1:J:186:THR:O	1:J:190:MLY:HG2	2.17	0.45
1:M:173:GLN:HG3	1:M:670:HIS:HD2	1.82	0.45
1:M:476:GLU:OE2	1:M:598:MLY:HH13	2.17	0.45
2:N:112:ILE:O	2:N:148:VAL:HA	2.17	0.45
1:P:88:ILE:HG22	1:P:90:ASP:C	2.42	0.45
1:P:506:GLU:O	1:P:762:HIS:CG	2.70	0.45
3:R:50:LEU:O	3:R:53:PRO:CD	2.63	0.45
4:2:190:MET:O	4:2:194:THR:HG23	2.16	0.45
4:2:203:THR:HG21	4:Z:288:ASP:CB	2.43	0.45
4:2:223:PHE:CD2	4:2:259:GLU:HG3	2.52	0.45
4:9:32:PRO:HB2	4:9:34:ILE:HD11	1.98	0.45
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.32	0.45
4:W:6:THR:HG22	4:W:101:HIS:HA	1.98	0.45
1:A:163:TYR:O	1:A:166:MET:HB3	2.17	0.45
1:A:226:ASN:N	1:A:227:PRO:HD2	2.32	0.45
1:A:322:VAL:HA	1:A:323:PRO:HD3	1.87	0.45
1:A:505:MLY:CD	1:A:741:LYS:HZ2	2.27	0.45
1:A:599:ASN:OD1	1:A:649:VAL:C	2.60	0.45
1:A:664:LEU:HD12	1:A:664:LEU:HA	1.53	0.45
1:A:725:ARG:NE	1:A:733:PRO:CB	1.95	0.45
1:A:793:ARG:O	1:A:797:PHE:N	2.40	0.45
1:D:14:ALA:N	1:D:15:PRO:HD2	2.32	0.45
1:D:99:GLU:N	1:D:100:PRO:CD	2.79	0.45
1:D:322:VAL:CG1	1:D:325:ILE:HD11	2.47	0.45
1:D:597:GLU:O	1:D:600:MLY:N	2.50	0.45
1:D:665:ARG:C	1:D:667:THR:N	2.74	0.45
1:D:723:ARG:NH2	1:D:779:ARG:HH21	2.15	0.45
1:D:794:CYS:O	1:D:797:PHE:HB3	2.16	0.45
1:G:326:ASP:O	1:G:330:GLU:HG2	2.16	0.45
1:G:597:GLU:O	1:G:600:MLY:N	2.50	0.45
1:G:642:LYS:NZ	4:V:340:TRP:O	2.50	0.45
1:G:667:THR:O	1:G:669:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:817:GLN:HB3	2:H:127:ARG:HH11	1.81	0.45
1:J:88:ILE:HG22	1:J:90:ASP:C	2.42	0.45
1:J:224:SER:O	1:J:227:PRO:HD2	2.17	0.45
1:J:332:MET:O	1:J:336:SER:OG	2.27	0.45
1:J:723:ARG:CG	1:J:723:ARG:NH1	2.79	0.45
1:J:724:TYR:HD1	1:J:727:LEU:CD1	2.27	0.45
1:M:139:VAL:HG12	1:M:143:TYR:HD2	1.81	0.45
1:M:692:LEU:HD23	1:M:692:LEU:HA	1.85	0.45
1:M:709:LYS:O	1:M:768:MLY:HH13	2.14	0.45
1:P:37:SER:O	1:P:38:VAL:HG23	2.17	0.45
1:P:103:LEU:HD22	1:P:692:LEU:HG	1.98	0.45
1:P:330:GLU:O	1:P:333:ALA:HB3	2.16	0.45
1:P:795:ARG:HH21	3:R:116:GLU:HA	1.82	0.45
1:P:815:CYS:SG	2:Q:92:ASP:CG	3.00	0.45
4:1:366:GLY:O	4:1:369:ILE:HG22	2.16	0.45
4:4:171:LEU:HA	4:4:172:PRO:HD2	1.84	0.45
4:4:223:PHE:CD2	4:4:259:GLU:HG3	2.52	0.45
4:4:287:ILE:HG22	4:6:204:ALA:H	1.74	0.45
4:7:6:THR:HG22	4:7:101:HIS:HA	1.98	0.45
4:8:223:PHE:CD2	4:8:259:GLU:HG3	2.52	0.45
4:8:288:ASP:CA	4:V:204:ALA:HB2	2.32	0.45
4:9:6:THR:HG22	4:9:101:HIS:HA	1.98	0.45
4:X:291:LYS:HG3	4:Z:244:ASP:HA	1.20	0.45
4:Y:366:GLY:O	4:Y:369:ILE:HG22	2.16	0.45
1:A:326:ASP:O	1:A:330:GLU:HG2	2.16	0.45
1:A:488:GLN:O	1:A:491:PHE:HB3	2.17	0.45
1:A:568:PRO:CG	1:A:578:HIS:H	2.30	0.45
1:A:597:GLU:O	1:A:600:MLY:N	2.50	0.45
1:A:757:GLN:O	1:A:771:LEU:HD22	2.16	0.45
1:A:768:MLY:H	1:A:771:LEU:HD22	1.82	0.45
1:A:769:ALA:N	1:A:771:LEU:HB2	2.31	0.45
1:D:195:TYR:CE2	1:D:199:ILE:HD12	2.52	0.45
1:D:224:SER:O	1:D:227:PRO:HD2	2.17	0.45
1:D:775:LEU:HD12	1:D:775:LEU:HA	1.70	0.45
1:D:818:TYR:CB	2:E:90:GLY:N	2.50	0.45
3:F:50:LEU:O	3:F:53:PRO:CD	2.63	0.45
1:G:322:VAL:CG1	1:G:325:ILE:HD11	2.47	0.45
1:G:675:ILE:HG23	1:G:676:ILE:N	2.32	0.45
1:G:835:PHE:O	1:G:839:MLY:N	2.49	0.45
1:J:99:GLU:N	1:J:100:PRO:CD	2.80	0.45
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:629:GLU:CB	1:J:645:SER:N	2.74	0.45
1:J:756:THR:HG21	1:J:776:GLU:HA	1.79	0.45
1:M:186:THR:O	1:M:190:MLY:HG2	2.17	0.45
1:M:226:ASN:N	1:M:227:PRO:HD2	2.32	0.45
1:M:649:VAL:HA	1:M:649:VAL:HG23	1.83	0.45
2:N:137:TRP:CA	2:N:145:ALA:CB	2.82	0.45
2:N:144:VAL:HG12	2:N:153:ILE:HD11	1.75	0.45
1:P:476:GLU:OE2	1:P:598:MLY:HH13	2.16	0.45
1:P:541:MET:CE	4:1:346:LEU:HD12	2.47	0.45
1:P:629:GLU:HB3	1:P:643:GLY:C	2.41	0.45
1:P:723:ARG:CG	1:P:723:ARG:NH1	2.79	0.45
1:P:725:ARG:CG	1:P:733:PRO:HA	2.43	0.45
1:P:733:PRO:HB3	3:R:85:GLU:CG	2.47	0.45
4:2:32:PRO:HB2	4:2:34:ILE:HD11	1.98	0.45
4:3:6:THR:HG22	4:3:101:HIS:HA	1.98	0.45
4:3:47:MET:HE2	4:3:47:MET:HB2	1.79	0.45
4:3:223:PHE:CD2	4:3:259:GLU:HG3	2.52	0.45
4:4:366:GLY:O	4:4:369:ILE:HG22	2.16	0.45
4:5:190:MET:O	4:5:194:THR:HG23	2.16	0.45
4:6:223:PHE:CD2	4:6:259:GLU:HG3	2.52	0.45
4:8:324:THR:N	4:V:245:GLY:CA	2.69	0.45
4:V:223:PHE:CD2	4:V:259:GLU:HG3	2.52	0.45
4:Y:223:PHE:CD2	4:Y:259:GLU:HG3	2.52	0.45
1:A:794:CYS:O	1:A:797:PHE:HB3	2.17	0.44
1:D:30:MLY:HB3	1:D:31:PRO:HD2	1.97	0.44
1:D:37:SER:O	1:D:38:VAL:HG23	2.17	0.44
1:D:540:CYS:N	4:9:349:LEU:HD11	2.31	0.44
1:D:725:ARG:CG	1:D:733:PRO:CA	2.95	0.44
1:D:835:PHE:O	1:D:839:MLY:N	2.49	0.44
2:E:137:TRP:CA	2:E:145:ALA:CB	2.82	0.44
3:F:69:LEU:HB3	3:F:70:PRO:HD3	1.99	0.44
1:G:37:SER:O	1:G:38:VAL:HG23	2.17	0.44
1:G:173:GLN:HG3	1:G:670:HIS:HD2	1.82	0.44
1:G:541:MET:SD	4:V:345:ILE:C	2.96	0.44
1:G:725:ARG:HH21	1:G:733:PRO:HB2	1.81	0.44
1:J:93:MET:HE2	1:J:764:MLY:HD2	1.98	0.44
1:J:103:LEU:HD22	1:J:692:LEU:HG	1.98	0.44
1:J:215:GLN:H	1:J:340:ILE:CD1	2.20	0.44
1:J:496:PHE:CE2	1:J:514:ASP:HA	2.50	0.44
1:J:817:GLN:HB3	2:K:127:ARG:HD3	1.96	0.44
2:K:112:ILE:O	2:K:148:VAL:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:14:ALA:N	1:M:15:PRO:HD2	2.32	0.44
1:M:30:MLY:HB3	1:M:31:PRO:HD2	1.97	0.44
1:M:88:ILE:HG22	1:M:90:ASP:C	2.42	0.44
1:M:322:VAL:CG1	1:M:325:ILE:HD11	2.47	0.44
1:P:55:MLY:HH23	1:P:60:VAL:HG22	1.99	0.44
1:P:215:GLN:CA	1:P:340:ILE:CG2	2.63	0.44
1:P:332:MET:H	1:P:332:MET:HG2	1.52	0.44
1:P:597:GLU:O	1:P:600:MLY:N	2.50	0.44
1:P:725:ARG:HH21	1:P:733:PRO:HB2	1.82	0.44
1:P:810:ARG:HG2	1:P:810:ARG:NH1	2.29	0.44
3:R:52:ASN:CB	3:R:53:PRO:CD	2.92	0.44
4:V:290:ARG:NH1	4:X:202:THR:CG2	2.80	0.44
4:W:253:GLU:H	4:W:253:GLU:CD	2.25	0.44
4:X:223:PHE:CD2	4:X:259:GLU:HG3	2.52	0.44
4:Z:32:PRO:HB2	4:Z:34:ILE:HD11	1.98	0.44
1:A:88:ILE:HG22	1:A:90:ASP:C	2.42	0.44
1:A:195:TYR:CE2	1:A:199:ILE:HD12	2.52	0.44
1:A:418:THR:CG2	1:A:419:VAL:N	2.79	0.44
1:A:642:LYS:HG3	4:8:23:GLY:CA	2.32	0.44
1:A:725:ARG:CG	1:A:733:PRO:CA	2.95	0.44
1:A:725:ARG:HH21	1:A:733:PRO:HB2	1.81	0.44
1:D:173:GLN:HG3	1:D:670:HIS:HD2	1.82	0.44
1:D:485:GLU:OE1	1:D:583:HIS:ND1	2.49	0.44
1:D:530:MET:CB	4:9:354:GLN:CB	2.95	0.44
1:D:667:THR:O	1:D:669:PRO:HD3	2.16	0.44
2:E:162:ASP:O	2:K:21:GLU:HB3	2.11	0.44
1:G:136:ASN:C	1:G:138:MLY:N	2.75	0.44
1:G:195:TYR:CE2	1:G:199:ILE:HD12	2.52	0.44
1:G:202:SER:HA	1:G:207:LYS:NZ	2.23	0.44
1:G:689:GLU:HA	1:G:692:LEU:HB2	2.00	0.44
1:G:692:LEU:O	1:G:696:ARG:HG3	2.18	0.44
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.83	0.44
1:J:488:GLN:O	1:J:491:PHE:HB3	2.17	0.44
1:J:506:GLU:HG3	1:J:760:PHE:O	2.17	0.44
1:J:597:GLU:O	1:J:600:MLY:N	2.50	0.44
1:J:711:PHE:HB3	1:J:766:PHE:HB3	2.00	0.44
1:J:739:ASP:OD1	1:J:739:ASP:C	2.58	0.44
1:J:795:ARG:HE	3:L:116:GLU:CB	2.30	0.44
1:J:795:ARG:CD	3:L:35:ARG:NH1	2.80	0.44
1:J:796:GLY:HA2	3:L:35:ARG:HD3	1.99	0.44
1:M:163:TYR:O	1:M:166:MET:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:214:MET:CA	1:M:340:ILE:HD11	2.45	0.44
1:M:409:GLY:N	1:M:636:LYS:CD	2.70	0.44
1:M:411:GLU:H	4:Z:333:PRO:CB	2.30	0.44
1:M:597:GLU:O	1:M:600:MLY:N	2.51	0.44
1:M:723:ARG:CG	1:M:723:ARG:NH1	2.79	0.44
1:M:727:LEU:HD21	1:M:778:MET:HB2	1.97	0.44
1:M:732:ILE:HG21	1:M:747:LEU:CD1	0.63	0.44
1:P:48:VAL:HA	1:P:104:TYR:OH	2.18	0.44
1:P:106:LEU:HD12	1:P:106:LEU:HA	1.79	0.44
1:P:136:ASN:HA	1:P:137:PRO:HD3	1.49	0.44
1:P:179:GLY:O	1:P:185:LYS:HE2	2.17	0.44
4:7:32:PRO:HB2	4:7:34:ILE:HD11	1.98	0.44
4:7:223:PHE:CD2	4:7:259:GLU:HG3	2.52	0.44
4:8:32:PRO:HB2	4:8:34:ILE:HD11	1.98	0.44
1:A:14:ALA:N	1:A:15:PRO:HD2	2.32	0.44
1:A:37:SER:O	1:A:38:VAL:HG23	2.17	0.44
1:A:193:ILE:HD11	1:A:250:ILE:CD1	2.48	0.44
1:A:504:MLY:HB2	1:A:762:HIS:NE2	2.31	0.44
1:A:530:MET:CA	4:8:354:GLN:CD	2.86	0.44
1:A:541:MET:HB3	4:8:345:ILE:HG22	2.00	0.44
1:D:48:VAL:HA	1:D:104:TYR:OH	2.18	0.44
1:D:711:PHE:HB3	1:D:766:PHE:HB3	2.00	0.44
1:D:713:SER:HB3	1:D:772:LEU:HD12	1.99	0.44
1:D:800:ARG:HB3	3:F:149:VAL:HG11	1.98	0.44
1:G:224:SER:O	1:G:227:PRO:HD2	2.17	0.44
1:G:330:GLU:HG2	1:G:330:GLU:H	1.54	0.44
1:G:576:GLU:CG	1:G:577:ALA:N	2.44	0.44
1:G:599:ASN:OD1	1:G:649:VAL:C	2.60	0.44
1:G:725:ARG:CG	1:G:733:PRO:HA	2.43	0.44
2:H:129:THR:HG23	2:H:132:GLU:OE1	2.18	0.44
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.44
1:J:136:ASN:HA	1:J:137:PRO:HD3	1.49	0.44
1:J:195:TYR:CE2	1:J:199:ILE:HD12	2.52	0.44
1:J:214:MET:CA	1:J:340:ILE:HD11	2.45	0.44
1:J:322:VAL:CG1	1:J:325:ILE:HD11	2.47	0.44
1:J:354:LEU:HD12	1:J:354:LEU:HA	1.56	0.44
1:J:411:GLU:H	4:W:333:PRO:HB2	1.81	0.44
1:J:599:ASN:OD1	1:J:649:VAL:C	2.60	0.44
1:J:643:GLY:N	4:W:23:GLY:C	2.55	0.44
1:J:783:LEU:HA	1:J:786:ILE:HB	2.00	0.44
1:J:795:ARG:CB	3:L:35:ARG:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:106:LEU:HD12	1:M:106:LEU:HA	1.79	0.44
1:M:485:GLU:OE1	1:M:583:HIS:ND1	2.49	0.44
1:M:541:MET:CE	4:Z:346:LEU:HD12	2.47	0.44
1:M:599:ASN:OD1	1:M:649:VAL:C	2.60	0.44
1:M:667:THR:O	1:M:669:PRO:HD3	2.17	0.44
1:M:689:GLU:HA	1:M:692:LEU:HB2	2.00	0.44
1:M:725:ARG:HH21	1:M:733:PRO:HB2	1.82	0.44
1:P:30:MLY:HB3	1:P:31:PRO:HD2	1.97	0.44
1:P:64:THR:HB	1:P:68:GLU:N	2.33	0.44
1:P:226:ASN:HB2	1:P:227:PRO:CD	2.47	0.44
1:P:493:HIS:O	1:P:496:PHE:HB3	2.18	0.44
1:P:725:ARG:CG	1:P:733:PRO:CA	2.95	0.44
1:P:804:ARG:HG3	1:P:808:GLU:CA	2.47	0.44
1:P:818:TYR:CG	2:Q:127:ARG:NH1	2.85	0.44
1:P:830:PRO:CG	2:Q:67:MET:CG	2.91	0.44
4:3:290:ARG:NH2	4:5:202:THR:HG21	1.60	0.44
4:4:32:PRO:HB2	4:4:34:ILE:HD11	1.99	0.44
4:9:223:PHE:CD2	4:9:259:GLU:HG3	2.52	0.44
4:9:253:GLU:H	4:9:253:GLU:CD	2.25	0.44
4:9:287:ILE:HA	4:W:202:THR:HG21	1.59	0.44
4:9:366:GLY:O	4:9:369:ILE:HG22	2.16	0.44
4:V:223:PHE:HB3	4:V:259:GLU:OE2	2.18	0.44
4:W:223:PHE:CD2	4:W:259:GLU:HG3	2.52	0.44
4:X:32:PRO:HB2	4:X:34:ILE:HD11	1.98	0.44
4:Z:190:MET:O	4:Z:194:THR:HG23	2.16	0.44
1:A:149:GLN:CD	1:A:716:LEU:CD2	2.73	0.44
1:A:330:GLU:HG2	1:A:330:GLU:H	1.55	0.44
1:A:499:GLU:CD	1:A:766:PHE:CE2	2.93	0.44
1:D:348:MLY:HH12	1:D:348:MLY:HD2	1.82	0.44
1:D:488:GLN:O	1:D:491:PHE:HB3	2.17	0.44
1:G:139:VAL:HG12	1:G:143:TYR:HD2	1.81	0.44
1:G:163:TYR:O	1:G:166:MET:HB3	2.17	0.44
1:G:701:LEU:HD12	1:G:701:LEU:HA	1.55	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	0.44
1:J:144:ARG:HA	1:J:144:ARG:HD2	1.78	0.44
1:J:330:GLU:O	1:J:333:ALA:HB3	2.17	0.44
1:J:408:VAL:CG1	4:W:332:PRO:HB3	2.41	0.44
1:J:725:ARG:HH21	1:J:733:PRO:HB2	1.82	0.44
1:M:179:GLY:O	1:M:185:LYS:HE2	2.17	0.44
1:M:332:MET:O	1:M:336:SER:OG	2.27	0.44
1:M:408:VAL:HG22	1:M:636:LYS:HG2	1.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:493:HIS:O	1:M:496:PHE:HB3	2.18	0.44
1:M:556:ASP:N	4:2:49:GLN:HB2	2.08	0.44
1:M:640:LYS:HB3	1:M:645:SER:CB	2.42	0.44
1:M:715:VAL:HG12	1:M:720:PHE:HB2	2.00	0.44
1:M:725:ARG:CG	1:M:733:PRO:CA	2.95	0.44
1:M:786:ILE:O	1:M:787:ILE:CB	2.38	0.44
2:N:129:THR:HG23	2:N:132:GLU:OE1	2.18	0.44
1:P:14:ALA:N	1:P:15:PRO:HD2	2.32	0.44
1:P:166:MET:CE	1:P:254:PHE:HB2	2.47	0.44
1:P:725:ARG:NH1	3:R:85:GLU:O	2.50	0.44
1:P:838:ILE:HG13	2:Q:54:MET:SD	2.58	0.44
4:7:223:PHE:HB3	4:7:259:GLU:OE2	2.18	0.44
4:8:47:MET:HE2	4:8:47:MET:HB2	1.79	0.44
4:X:253:GLU:CD	4:X:253:GLU:H	2.25	0.44
1:A:179:GLY:O	1:A:185:LYS:HE2	2.17	0.44
1:A:202:SER:HA	1:A:207:LYS:NZ	2.22	0.44
1:A:501:GLU:CB	1:A:762:HIS:CE1	2.88	0.44
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	0.44
1:D:103:LEU:HD22	1:D:692:LEU:HG	1.98	0.44
1:D:629:GLU:HB3	1:D:643:GLY:C	2.41	0.44
1:D:639:GLY:CA	4:9:344:SER:O	2.40	0.44
1:D:725:ARG:HA	1:D:732:ILE:HG22	1.99	0.44
1:D:725:ARG:HH21	1:D:733:PRO:HB2	1.82	0.44
1:D:809:ARG:NH2	2:E:120:LEU:HD11	2.32	0.44
1:G:123:CYS:CB	1:G:158:ILE:HD13	2.48	0.44
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.44
2:H:114:LYS:CG	2:H:146:GLY:HA2	2.46	0.44
2:H:144:VAL:C	2:H:153:ILE:HD11	2.43	0.44
3:I:69:LEU:HB3	3:I:70:PRO:HD3	2.00	0.44
1:J:476:GLU:OE2	1:J:598:MLY:HH13	2.16	0.44
2:K:113:LYS:C	2:K:147:ASN:HB2	2.43	0.44
1:M:439:LEU:N	1:M:439:LEU:CD1	2.81	0.44
1:M:464:ILE:CG2	1:M:465:ALA:N	2.80	0.44
1:M:641:LYS:C	4:Z:22:ALA:O	2.60	0.44
1:M:715:VAL:HG23	1:M:772:LEU:CD2	2.36	0.44
1:P:136:ASN:C	1:P:138:MLY:N	2.76	0.44
1:P:163:TYR:O	1:P:166:MET:HB3	2.17	0.44
1:P:322:VAL:CG1	1:P:325:ILE:HD11	2.47	0.44
1:P:829:TRP:CD2	2:Q:87:LYS:CE	3.00	0.44
2:Q:129:THR:HG23	2:Q:132:GLU:OE1	2.18	0.44
3:R:122:GLU:HA	3:R:125:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:243:PRO:CA	4:Y:291:LYS:HD2	2.47	0.44
4:2:223:PHE:HB3	4:2:259:GLU:OE2	2.18	0.44
4:6:223:PHE:HB3	4:6:259:GLU:OE2	2.18	0.44
4:8:223:PHE:HB3	4:8:259:GLU:OE2	2.18	0.44
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.18	0.44
4:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	0.44
4:Y:190:MET:O	4:Y:194:THR:HG23	2.16	0.44
1:A:48:VAL:HA	1:A:104:TYR:OH	2.18	0.44
1:A:136:ASN:C	1:A:138:MLY:N	2.75	0.44
1:D:612:GLN:NE2	1:D:627:GLY:H	2.14	0.44
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	0.44
2:E:113:LYS:C	2:E:147:ASN:HB2	2.43	0.44
1:G:103:LEU:HD22	1:G:692:LEU:HG	1.99	0.44
1:G:332:MET:H	1:G:332:MET:HG2	1.52	0.44
1:G:673:ARG:HA	1:G:673:ARG:HD2	1.79	0.44
1:G:725:ARG:CZ	1:G:737:PHE:CZ	3.01	0.44
1:J:578:HIS:HB3	1:J:592:ILE:CD1	2.38	0.44
1:M:195:TYR:CE2	1:M:199:ILE:HD12	2.52	0.44
1:M:516:GLY:O	1:M:518:ASP:N	2.51	0.44
1:M:692:LEU:O	1:M:696:ARG:HG3	2.18	0.44
1:M:725:ARG:CZ	1:M:737:PHE:CZ	3.01	0.44
1:M:732:ILE:CG2	1:M:747:LEU:HD12	0.35	0.44
1:M:776:GLU:O	1:M:780:ASP:N	2.45	0.44
2:N:113:LYS:C	2:N:147:ASN:HB2	2.43	0.44
2:N:144:VAL:C	2:N:153:ILE:HD11	2.43	0.44
1:P:411:GLU:H	4:1:333:PRO:CB	2.30	0.44
1:P:485:GLU:HA	1:P:584:TYR:HE2	1.83	0.44
1:P:797:PHE:CE2	3:R:146:ILE:CD1	2.63	0.44
4:8:253:GLU:CD	4:8:253:GLU:H	2.25	0.44
4:W:366:GLY:O	4:W:369:ILE:HG22	2.16	0.44
4:Z:223:PHE:HB3	4:Z:259:GLU:OE2	2.18	0.44
1:A:92:ALA:O	1:A:714:ARG:N	2.39	0.44
1:A:123:CYS:CB	1:A:158:ILE:HD13	2.48	0.44
1:A:215:GLN:H	1:A:340:ILE:CD1	2.21	0.44
1:A:224:SER:O	1:A:227:PRO:HD2	2.17	0.44
1:A:266:GLU:OE1	1:A:659:MLY:NZ	2.51	0.44
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	0.44
1:A:411:GLU:H	4:8:333:PRO:CB	2.30	0.44
1:A:689:GLU:HA	1:A:692:LEU:HB2	2.00	0.44
1:A:715:VAL:HG12	1:A:720:PHE:HB2	2.00	0.44
1:D:732:ILE:HG21	1:D:747:LEU:CD1	0.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:791:GLN:OE1	3:F:116:GLU:CG	2.46	0.44
1:D:818:TYR:HD2	2:E:90:GLY:HA2	1.82	0.44
2:E:163:ALA:C	2:K:22:THR:OG1	2.61	0.44
1:G:436:MLY:HE3	1:G:626:TYR:HE1	1.77	0.44
1:G:485:GLU:HA	1:G:584:TYR:HE2	1.83	0.44
1:J:64:THR:HB	1:J:68:GLU:N	2.33	0.44
1:J:87:MLY:HH12	1:J:87:MLY:HD3	1.61	0.44
1:J:123:CYS:CB	1:J:158:ILE:HD13	2.48	0.44
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.44
1:J:639:GLY:H	4:W:344:SER:HB3	1.82	0.44
1:J:725:ARG:CG	1:J:733:PRO:CA	2.95	0.44
2:K:140:PHE:HA	2:K:141:PRO:HD2	1.56	0.44
3:L:101:THR:HA	3:L:137:ILE:O	2.18	0.44
1:M:103:LEU:HD22	1:M:692:LEU:HG	1.98	0.44
1:M:123:CYS:CB	1:M:158:ILE:HD13	2.48	0.44
1:M:194:GLN:HE21	1:M:194:GLN:HB3	1.43	0.44
1:M:224:SER:O	1:M:227:PRO:HD2	2.17	0.44
1:M:485:GLU:HA	1:M:584:TYR:HE2	1.83	0.44
1:M:554:LEU:HD12	1:M:554:LEU:HA	1.77	0.44
1:M:783:LEU:O	1:M:786:ILE:N	2.43	0.44
1:M:829:TRP:O	1:M:832:MET:N	2.50	0.44
1:M:836:PHE:CZ	2:N:160:GLY:N	2.65	0.44
3:O:101:THR:HA	3:O:137:ILE:O	2.18	0.44
1:P:63:MLY:HH23	1:P:63:MLY:HD3	1.76	0.44
1:P:99:GLU:N	1:P:100:PRO:CD	2.80	0.44
1:P:544:LYS:HD3	4:3:45:VAL:CG2	2.42	0.44
1:P:665:ARG:C	1:P:667:THR:N	2.74	0.44
1:P:732:ILE:HG23	1:P:747:LEU:HD12	0.95	0.44
1:P:797:PHE:CD1	3:R:146:ILE:CG2	2.86	0.44
1:P:829:TRP:O	1:P:832:MET:N	2.50	0.44
4:1:253:GLU:H	4:1:253:GLU:CD	2.26	0.44
4:2:203:THR:CG2	4:Z:288:ASP:OD1	2.64	0.44
4:7:253:GLU:H	4:7:253:GLU:CD	2.26	0.44
4:W:223:PHE:HB3	4:W:259:GLU:OE2	2.18	0.44
1:A:93:MET:C	1:A:713:SER:CB	2.89	0.44
1:A:186:THR:O	1:A:190:MLY:HG2	2.17	0.44
1:A:612:GLN:NE2	1:A:627:GLY:H	2.15	0.44
1:A:753:VAL:HG12	1:A:775:LEU:CD2	2.44	0.44
1:D:123:CYS:CB	1:D:158:ILE:HD13	2.48	0.44
1:D:166:MET:CE	1:D:254:PHE:HB2	2.46	0.44
1:D:194:GLN:HE21	1:D:194:GLN:HB3	1.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ASN:OD1	1:D:649:VAL:C	2.60	0.44
1:D:819:ASN:O	2:E:157:ILE:HG23	2.18	0.44
1:G:48:VAL:HA	1:G:104:TYR:OH	2.18	0.44
1:G:55:MLY:HH23	1:G:60:VAL:HG22	1.99	0.44
1:G:193:ILE:HD11	1:G:250:ILE:CD1	2.48	0.44
1:G:229:LEU:HD12	1:G:229:LEU:HA	1.75	0.44
1:G:296:MLY:O	1:G:299:LEU:HB2	2.17	0.44
1:G:439:LEU:N	1:G:439:LEU:CD1	2.81	0.44
1:J:93:MET:HG2	1:J:715:VAL:HA	1.98	0.44
1:J:493:HIS:O	1:J:496:PHE:HB3	2.18	0.44
1:J:516:GLY:O	1:J:518:ASP:N	2.51	0.44
1:J:692:LEU:O	1:J:696:ARG:HG3	2.18	0.44
1:J:795:ARG:HD2	3:L:43:ASN:N	2.32	0.44
2:K:144:VAL:HG12	2:K:153:ILE:HD11	1.75	0.44
1:P:123:CYS:CB	1:P:158:ILE:HD13	2.48	0.44
1:P:224:SER:O	1:P:227:PRO:HD2	2.17	0.44
1:P:568:PRO:CG	1:P:578:HIS:H	2.30	0.44
1:P:637:LYS:HD2	4:1:144:ALA:HB3	1.20	0.44
1:P:639:GLY:CA	4:1:344:SER:O	2.39	0.44
1:P:639:GLY:H	4:1:344:SER:HB3	1.83	0.44
1:P:711:PHE:HB3	1:P:766:PHE:HB3	2.00	0.44
1:P:830:PRO:CG	2:Q:67:MET:CE	2.84	0.44
2:Q:137:TRP:CA	2:Q:145:ALA:HB2	2.37	0.44
3:R:48:LYS:C	3:R:52:ASN:HD22	1.97	0.44
3:R:101:THR:HA	3:R:137:ILE:O	2.18	0.44
4:1:6:THR:HG22	4:1:101:HIS:HA	1.98	0.44
4:3:190:MET:O	4:3:194:THR:HG23	2.16	0.44
4:3:223:PHE:HB3	4:3:259:GLU:OE2	2.18	0.44
4:4:287:ILE:HB	4:6:204:ALA:H	1.83	0.44
4:7:193:LEU:O	4:7:198:TYR:HD2	2.01	0.44
4:X:223:PHE:HB3	4:X:259:GLU:OE2	2.18	0.44
4:Z:253:GLU:H	4:Z:253:GLU:CD	2.26	0.44
1:A:218:LEU:CD2	1:A:222:ILE:CG1	2.85	0.44
1:A:278:GLN:HE21	1:A:278:GLN:HB3	1.42	0.44
1:A:493:HIS:O	1:A:496:PHE:HB3	2.18	0.44
1:A:667:THR:O	1:A:669:PRO:HD3	2.16	0.44
1:A:754:ASP:C	1:A:756:THR:H	2.26	0.44
1:D:136:ASN:C	1:D:138:MLY:N	2.75	0.44
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.44
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.44
1:D:692:LEU:O	1:D:696:ARG:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:LEU:HD23	1:D:747:LEU:C	2.43	0.44
1:G:485:GLU:OE1	1:G:583:HIS:ND1	2.49	0.44
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	0.44
1:G:724:TYR:HB3	1:G:727:LEU:CD1	2.48	0.44
1:G:725:ARG:CG	1:G:733:PRO:CA	2.95	0.44
1:J:193:ILE:HD11	1:J:250:ILE:CD1	2.48	0.44
1:J:568:PRO:CG	1:J:578:HIS:H	2.30	0.44
1:J:732:ILE:CG2	1:J:747:LEU:HD12	0.35	0.44
1:J:799:MET:CE	3:L:32:ASP:HB3	2.48	0.44
1:J:819:ASN:N	2:K:90:GLY:O	2.44	0.44
1:J:829:TRP:HZ3	2:K:84:PHE:CG	2.35	0.44
3:L:119:THR:O	3:L:123:VAL:HG23	2.18	0.44
3:L:122:GLU:HA	3:L:125:GLU:OE1	2.18	0.44
1:M:541:MET:SD	4:Z:345:ILE:C	2.95	0.44
1:M:725:ARG:HA	1:M:732:ILE:HG22	1.99	0.44
1:M:751:GLY:C	1:M:753:VAL:HG22	2.43	0.44
1:M:835:PHE:O	1:M:839:MLY:N	2.49	0.44
2:N:137:TRP:CA	2:N:145:ALA:HB2	2.37	0.44
1:P:173:GLN:HG3	1:P:670:HIS:HD2	1.82	0.44
1:P:519:LEU:N	1:P:519:LEU:CD1	2.77	0.44
1:P:804:ARG:C	1:P:808:GLU:N	2.68	0.44
2:Q:121:LEU:CA	2:Q:128:PHE:CG	2.89	0.44
4:2:322:PRO:CA	4:4:244:ASP:HB2	2.47	0.44
4:4:223:PHE:HB3	4:4:259:GLU:OE2	2.18	0.44
4:Y:223:PHE:HB3	4:Y:259:GLU:OE2	2.18	0.44
1:A:64:THR:HB	1:A:68:GLU:N	2.33	0.43
1:A:439:LEU:N	1:A:439:LEU:CD1	2.81	0.43
1:A:496:PHE:HB2	1:A:515:PHE:CD2	2.53	0.43
1:A:516:GLY:O	1:A:518:ASP:N	2.51	0.43
1:A:541:MET:HG2	4:8:345:ILE:HG22	2.00	0.43
1:A:810:ARG:HG2	1:A:810:ARG:NH1	2.29	0.43
1:D:163:TYR:O	1:D:166:MET:HB3	2.17	0.43
1:D:439:LEU:N	1:D:439:LEU:CD1	2.81	0.43
1:D:493:HIS:O	1:D:496:PHE:HB3	2.18	0.43
1:D:507:GLY:HA3	1:D:762:HIS:CD2	2.50	0.43
1:D:732:ILE:CG2	1:D:747:LEU:CD1	0.65	0.43
2:E:144:VAL:C	2:E:153:ILE:HD11	2.43	0.43
3:F:122:GLU:HA	3:F:125:GLU:OE1	2.18	0.43
1:G:64:THR:HB	1:G:68:GLU:N	2.33	0.43
1:G:97:LEU:HA	1:G:97:LEU:HD12	1.67	0.43
1:G:179:GLY:O	1:G:185:LYS:HE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:ASN:HA	4:V:334:GLU:HB3	1.28	0.43
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	0.43
1:G:787:ILE:HG23	1:G:791:GLN:HG3	2.00	0.43
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.43
1:J:541:MET:CE	4:W:346:LEU:HD12	2.47	0.43
1:J:632:GLY:HA3	1:J:643:GLY:N	2.17	0.43
1:J:725:ARG:HA	1:J:732:ILE:HG22	1.99	0.43
1:J:821:ARG:NH1	2:K:127:ARG:NE	2.66	0.43
1:J:829:TRP:O	1:J:832:MET:N	2.50	0.43
1:M:64:THR:HB	1:M:68:GLU:N	2.33	0.43
1:M:266:GLU:OE1	1:M:659:MLY:NZ	2.51	0.43
1:M:642:LYS:HB3	4:Z:24:ASP:HB2	1.37	0.43
1:M:733:PRO:C	1:M:737:PHE:CE1	2.96	0.43
1:M:796:GLY:N	3:O:35:ARG:NH2	2.66	0.43
3:O:69:LEU:HB3	3:O:70:PRO:HD3	1.99	0.43
1:P:308:ASN:HA	1:P:309:PRO:HD2	1.88	0.43
1:P:496:PHE:HB2	1:P:515:PHE:CD2	2.53	0.43
1:P:715:VAL:HG12	1:P:720:PHE:HB2	2.00	0.43
1:P:789:ALA:HB1	3:R:81:GLN:CD	2.43	0.43
1:P:797:PHE:CG	3:R:146:ILE:HG23	2.48	0.43
1:P:831:TRP:CE3	2:Q:80:PHE:CZ	3.06	0.43
4:5:32:PRO:HB2	4:5:34:ILE:HD11	1.98	0.43
4:6:32:PRO:HB2	4:6:34:ILE:HD11	1.99	0.43
4:W:220:ALA:HB3	4:W:223:PHE:CD1	2.53	0.43
1:D:56:GLU:HB2	1:D:59:MLY:CB	2.30	0.43
1:D:64:THR:HB	1:D:68:GLU:N	2.33	0.43
1:D:174:SER:OG	1:D:669:PRO:HA	2.18	0.43
1:D:193:ILE:HD11	1:D:250:ILE:CD1	2.48	0.43
1:D:516:GLY:O	1:D:518:ASP:N	2.51	0.43
1:D:541:MET:CE	4:9:346:LEU:HD12	2.48	0.43
1:D:568:PRO:CG	1:D:578:HIS:H	2.30	0.43
1:D:795:ARG:CG	3:F:35:ARG:HH12	2.30	0.43
2:E:129:THR:HG23	2:E:132:GLU:OE1	2.18	0.43
1:G:506:GLU:OE2	1:G:760:PHE:C	2.61	0.43
1:G:516:GLY:O	1:G:518:ASP:N	2.51	0.43
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	0.43
1:G:732:ILE:HG23	1:G:747:LEU:HD12	0.94	0.43
1:G:754:ASP:C	1:G:756:THR:H	2.27	0.43
3:I:101:THR:HA	3:I:137:ILE:O	2.18	0.43
3:I:122:GLU:HA	3:I:125:GLU:OE1	2.18	0.43
1:J:136:ASN:C	1:J:138:MLY:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:136:ASN:O	1:J:139:VAL:N	2.47	0.43
1:J:206:LYS:CE	1:J:217:THR:HG23	2.30	0.43
1:J:756:THR:HA	1:J:776:GLU:OE1	2.15	0.43
1:J:819:ASN:ND2	2:K:92:ASP:CA	2.78	0.43
2:K:129:THR:HG23	2:K:132:GLU:OE1	2.17	0.43
2:K:144:VAL:HG12	2:K:153:ILE:HD13	1.92	0.43
2:K:144:VAL:C	2:K:153:ILE:HD11	2.43	0.43
1:M:64:THR:CG2	1:M:65:GLU:H	2.31	0.43
1:M:174:SER:OG	1:M:669:PRO:HA	2.18	0.43
3:O:119:THR:O	3:O:123:VAL:HG23	2.18	0.43
1:P:195:TYR:CE2	1:P:199:ILE:HD12	2.52	0.43
1:P:409:GLY:N	1:P:636:LYS:CD	2.71	0.43
1:P:409:GLY:HA3	4:1:332:PRO:C	2.44	0.43
1:P:733:PRO:C	1:P:737:PHE:CE1	2.96	0.43
4:9:193:LEU:O	4:9:198:TYR:HD2	2.01	0.43
4:9:220:ALA:HB3	4:9:223:PHE:CD1	2.53	0.43
4:X:286:ASP:OD2	4:Z:203:THR:HG22	2.18	0.43
4:X:325:MET:HE1	4:Z:244:ASP:OD2	2.18	0.43
4:Y:220:ALA:HB3	4:Y:223:PHE:CD1	2.53	0.43
1:A:55:MLY:HH23	1:A:60:VAL:HG22	1.99	0.43
1:A:109:ARG:CD	1:A:117:THR:HB	2.49	0.43
1:A:246:PHE:HB3	1:A:270:LEU:HD12	2.01	0.43
1:A:436:MLY:HE3	1:A:626:TYR:HE1	1.77	0.43
1:A:485:GLU:OE2	1:A:584:TYR:N	2.50	0.43
1:A:711:PHE:HB3	1:A:766:PHE:HB3	1.99	0.43
1:A:725:ARG:CZ	1:A:737:PHE:CZ	3.01	0.43
1:A:798:LEU:HD12	1:A:798:LEU:HA	1.37	0.43
1:D:201:ALA:O	1:D:202:SER:OG	2.36	0.43
1:D:226:ASN:N	1:D:227:PRO:HD2	2.32	0.43
1:D:391:GLY:HA3	1:D:616:VAL:HG23	2.01	0.43
1:D:739:ASP:OD1	1:D:739:ASP:C	2.58	0.43
1:D:795:ARG:CZ	3:F:116:GLU:CB	2.94	0.43
3:F:119:THR:O	3:F:123:VAL:HG23	2.18	0.43
1:G:136:ASN:O	1:G:139:VAL:N	2.47	0.43
1:G:246:PHE:HB3	1:G:270:LEU:HD12	2.01	0.43
1:G:266:GLU:OE1	1:G:659:MLY:NZ	2.51	0.43
1:G:411:GLU:H	4:V:333:PRO:CB	2.30	0.43
1:G:496:PHE:HB2	1:G:515:PHE:CD2	2.53	0.43
1:G:530:MET:CE	4:V:354:GLN:HG3	2.34	0.43
1:G:711:PHE:HB3	1:G:766:PHE:HB3	2.00	0.43
3:I:52:ASN:CB	3:I:53:PRO:CD	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:163:TYR:O	1:J:166:MET:HB3	2.17	0.43
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.43
1:J:391:GLY:HA3	1:J:616:VAL:HG23	2.01	0.43
1:J:439:LEU:N	1:J:439:LEU:CD1	2.81	0.43
1:J:541:MET:HG2	4:W:345:ILE:HG22	2.00	0.43
1:J:675:ILE:HG23	1:J:676:ILE:N	2.33	0.43
1:J:829:TRP:HA	1:J:830:PRO:HD2	1.86	0.43
1:M:37:SER:O	1:M:38:VAL:HG23	2.17	0.43
1:M:40:VAL:HG23	1:M:76:GLN:O	2.19	0.43
1:M:202:SER:C	1:M:207:LYS:HE3	2.44	0.43
1:M:246:PHE:HB3	1:M:270:LEU:HD12	2.01	0.43
1:M:701:LEU:HD12	1:M:701:LEU:HA	1.55	0.43
1:M:727:LEU:HD21	1:M:778:MET:HB3	2.00	0.43
3:O:122:GLU:HA	3:O:125:GLU:OE1	2.18	0.43
1:P:64:THR:CG2	1:P:65:GLU:H	2.31	0.43
1:P:166:MET:HE1	1:P:254:PHE:CB	2.47	0.43
1:P:641:LYS:C	4:1:22:ALA:O	2.60	0.43
4:1:193:LEU:O	4:1:198:TYR:HD2	2.01	0.43
4:1:220:ALA:HB3	4:1:223:PHE:CD1	2.53	0.43
4:1:223:PHE:HB3	4:1:259:GLU:OE2	2.18	0.43
4:4:193:LEU:O	4:4:198:TYR:HD2	2.01	0.43
4:5:253:GLU:CD	4:5:253:GLU:H	2.25	0.43
4:6:253:GLU:H	4:6:253:GLU:CD	2.25	0.43
4:8:290:ARG:HH22	4:V:202:THR:CG2	2.17	0.43
4:X:193:LEU:O	4:X:198:TYR:HD2	2.01	0.43
4:Z:205:GLU:O	4:Z:208:ILE:HG22	2.19	0.43
1:A:173:GLN:HG3	1:A:670:HIS:HD2	1.82	0.43
1:A:322:VAL:CG1	1:A:325:ILE:HG13	2.49	0.43
1:A:692:LEU:O	1:A:696:ARG:HG3	2.18	0.43
1:D:88:ILE:HG22	1:D:90:ASP:C	2.42	0.43
1:D:116:TYR:HE1	1:D:125:THR:HG1	1.62	0.43
1:D:266:GLU:OE1	1:D:659:MLY:NZ	2.51	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.49	0.43
1:D:675:ILE:HG23	1:D:676:ILE:N	2.32	0.43
1:G:14:ALA:N	1:G:15:PRO:CD	2.81	0.43
1:G:174:SER:OG	1:G:669:PRO:HA	2.18	0.43
1:G:751:GLY:C	1:G:753:VAL:HG22	2.43	0.43
2:H:113:LYS:C	2:H:147:ASN:HB2	2.43	0.43
1:J:109:ARG:CD	1:J:117:THR:HB	2.49	0.43
1:J:151:ALA:HB1	1:J:152:PRO:HD2	2.01	0.43
1:J:409:GLY:HA3	4:W:332:PRO:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:411:GLU:H	4:W:333:PRO:CB	2.30	0.43
1:J:519:LEU:N	1:J:519:LEU:CD1	2.77	0.43
1:J:661:MET:HE3	1:J:661:MET:HB3	1.75	0.43
1:J:701:LEU:HD12	1:J:701:LEU:HA	1.55	0.43
1:J:756:THR:O	1:J:776:GLU:CD	2.56	0.43
2:K:114:LYS:CG	2:K:146:GLY:HA2	2.46	0.43
1:M:55:MLY:HH23	1:M:60:VAL:HG22	1.99	0.43
1:M:530:MET:CB	4:Z:354:GLN:CB	2.95	0.43
1:M:747:LEU:HD23	1:M:747:LEU:C	2.43	0.43
1:P:14:ALA:N	1:P:15:PRO:CD	2.82	0.43
1:P:174:SER:OG	1:P:669:PRO:HA	2.18	0.43
1:P:226:ASN:N	1:P:227:PRO:HD2	2.32	0.43
1:P:529:PRO:HB3	4:1:354:GLN:HA	2.00	0.43
1:P:725:ARG:NE	1:P:733:PRO:CB	1.95	0.43
3:R:69:LEU:HB3	3:R:70:PRO:HD3	2.00	0.43
4:2:193:LEU:O	4:2:198:TYR:HD2	2.01	0.43
4:3:253:GLU:CD	4:3:253:GLU:H	2.25	0.43
1:A:56:GLU:HB2	1:A:59:MLY:CB	2.30	0.43
1:A:202:SER:C	1:A:207:LYS:HE3	2.44	0.43
1:A:204:GLU:N	1:A:207:LYS:HE3	2.23	0.43
1:A:485:GLU:HA	1:A:584:TYR:HE2	1.83	0.43
1:A:504:MLY:HB2	1:A:762:HIS:CE1	2.54	0.43
1:A:505:MLY:CH1	1:A:762:HIS:O	2.62	0.43
1:A:751:GLY:C	1:A:753:VAL:HG22	2.43	0.43
1:D:217:THR:HG22	1:D:218:LEU:N	2.34	0.43
1:D:409:GLY:HA3	4:9:332:PRO:C	2.44	0.43
1:D:715:VAL:HG12	1:D:720:PHE:HB2	2.00	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.43
1:D:751:GLY:C	1:D:753:VAL:HG22	2.43	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
1:G:109:ARG:CD	1:G:117:THR:HB	2.49	0.43
1:J:155:ILE:HG22	1:J:156:PHE:N	2.33	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HG13	2.49	0.43
1:J:496:PHE:HB2	1:J:515:PHE:CD2	2.54	0.43
1:J:541:MET:HB3	4:W:345:ILE:HG22	2.00	0.43
1:M:48:VAL:HA	1:M:104:TYR:OH	2.18	0.43
1:M:136:ASN:C	1:M:138:MLY:N	2.75	0.43
1:M:296:MLY:O	1:M:299:LEU:HB2	2.17	0.43
1:M:391:GLY:HA3	1:M:616:VAL:HG23	2.01	0.43
1:M:488:GLN:O	1:M:491:PHE:HB3	2.17	0.43
1:M:793:ARG:O	1:M:797:PHE:N	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:795:ARG:HB3	3:O:35:ARG:NH1	2.30	0.43
1:M:829:TRP:CZ3	2:N:84:PHE:CE2	2.91	0.43
1:P:144:ARG:HD2	1:P:144:ARG:HA	1.78	0.43
1:P:151:ALA:HB1	1:P:152:PRO:HD2	2.01	0.43
1:P:266:GLU:OE1	1:P:659:MLY:NZ	2.51	0.43
1:P:322:VAL:CG1	1:P:325:ILE:HG13	2.49	0.43
1:P:541:MET:SD	4:1:345:ILE:C	2.95	0.43
1:P:689:GLU:HA	1:P:692:LEU:HB2	2.00	0.43
1:P:724:TYR:HB3	1:P:727:LEU:CD1	2.48	0.43
1:P:725:ARG:CZ	1:P:737:PHE:CE1	3.02	0.43
1:P:789:ALA:CB	3:R:81:GLN:CD	2.92	0.43
4:2:253:GLU:CD	4:2:253:GLU:H	2.25	0.43
4:3:193:LEU:O	4:3:198:TYR:HD2	2.01	0.43
4:5:220:ALA:HB3	4:5:223:PHE:CD1	2.53	0.43
4:6:220:ALA:HB3	4:6:223:PHE:CD1	2.53	0.43
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43
4:7:220:ALA:HB3	4:7:223:PHE:CD1	2.53	0.43
4:V:253:GLU:CD	4:V:253:GLU:H	2.26	0.43
4:X:205:GLU:O	4:X:208:ILE:HG22	2.19	0.43
1:A:400:ALA:CB	1:A:606:THR:HG22	2.49	0.43
1:A:408:VAL:HG22	1:A:636:LYS:HG2	1.51	0.43
1:A:485:GLU:OE1	1:A:583:HIS:ND1	2.49	0.43
1:A:530:MET:CB	4:8:354:GLN:CB	2.95	0.43
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.43
1:A:639:GLY:H	4:8:344:SER:HB3	1.83	0.43
1:D:214:MET:CA	1:D:340:ILE:HD11	2.45	0.43
1:D:500:GLN:HB2	1:D:512:PHE:CZ	2.54	0.43
1:D:530:MET:CE	4:9:354:GLN:CB	2.96	0.43
1:D:578:HIS:HB3	1:D:592:ILE:CD1	2.38	0.43
1:D:715:VAL:HG11	1:D:720:PHE:CD1	2.50	0.43
1:D:724:TYR:HD1	1:D:782:MLY:CD	2.21	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CE1	3.02	0.43
1:D:829:TRP:O	1:D:832:MET:N	2.50	0.43
2:E:163:ALA:O	2:K:21:GLU:C	2.62	0.43
1:G:202:SER:C	1:G:207:LYS:HE3	2.44	0.43
1:G:400:ALA:CB	1:G:606:THR:HG22	2.49	0.43
1:G:493:HIS:O	1:G:496:PHE:HB3	2.18	0.43
1:G:534:SER:HB2	4:V:354:GLN:HE22	1.57	0.43
1:G:796:GLY:CA	3:I:35:ARG:NH2	2.81	0.43
1:G:817:GLN:NE2	2:H:127:ARG:CG	2.75	0.43
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:166:MET:HE1	1:J:254:PHE:CB	2.47	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	0.43
1:J:529:PRO:HB3	4:W:354:GLN:HA	2.00	0.43
1:J:689:GLU:HA	1:J:692:LEU:HB2	2.00	0.43
1:J:715:VAL:HG11	1:J:720:PHE:CD1	2.50	0.43
1:J:715:VAL:HG12	1:J:720:PHE:HB2	2.00	0.43
2:K:137:TRP:CZ3	2:K:145:ALA:N	2.81	0.43
1:M:129:TYR:HD1	1:M:129:TYR:HA	1.65	0.43
1:M:193:ILE:HD11	1:M:250:ILE:CD1	2.48	0.43
1:M:217:THR:HG22	1:M:218:LEU:N	2.34	0.43
1:P:109:ARG:CD	1:P:117:THR:HB	2.49	0.43
1:P:193:ILE:HD11	1:P:250:ILE:CD1	2.48	0.43
1:P:655:GLU:CD	4:1:1:ASP:HB2	2.43	0.43
1:P:692:LEU:O	1:P:696:ARG:HG3	2.18	0.43
1:P:762:HIS:N	1:P:762:HIS:CD2	2.78	0.43
1:P:775:LEU:HA	1:P:775:LEU:HD12	1.71	0.43
2:Q:144:VAL:C	2:Q:153:ILE:HD11	2.43	0.43
4:1:247:VAL:HG23	4:Y:324:THR:HG21	1.92	0.43
4:1:299:MET:HE2	4:1:299:MET:HB2	1.82	0.43
4:4:149:THR:HA	4:4:165:ILE:O	2.19	0.43
4:4:205:GLU:O	4:4:208:ILE:HG22	2.19	0.43
4:5:223:PHE:HB3	4:5:259:GLU:OE2	2.18	0.43
4:9:149:THR:HA	4:9:165:ILE:O	2.19	0.43
4:V:205:GLU:O	4:V:208:ILE:HG22	2.19	0.43
4:X:290:ARG:NH2	4:Z:201:VAL:HG21	2.33	0.43
4:Z:149:THR:HA	4:Z:165:ILE:O	2.19	0.43
4:Z:220:ALA:HB3	4:Z:223:PHE:CD1	2.53	0.43
1:A:14:ALA:HB3	1:A:15:PRO:CD	2.46	0.43
1:A:217:THR:HG22	1:A:218:LEU:N	2.34	0.43
1:A:541:MET:CE	4:8:346:LEU:HD12	2.48	0.43
1:A:732:ILE:CG2	1:A:747:LEU:HD12	0.35	0.43
1:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.43
1:D:223:ILE:C	1:D:225:ALA:N	2.77	0.43
1:D:787:ILE:HG21	1:D:787:ILE:HD13	1.67	0.43
1:D:822:SER:CB	2:E:88:LEU:CD2	2.86	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HG13	2.49	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.01	0.43
1:G:530:MET:CE	4:V:354:GLN:CB	2.95	0.43
1:G:541:MET:HB3	4:V:345:ILE:HG22	2.01	0.43
1:G:725:ARG:NE	1:G:733:PRO:CB	1.95	0.43
1:J:14:ALA:N	1:J:15:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:217:THR:HG22	1:J:218:LEU:N	2.34	0.43
1:J:226:ASN:N	1:J:227:PRO:HD2	2.32	0.43
1:J:266:GLU:OE1	1:J:659:MLY:NZ	2.51	0.43
1:J:530:MET:CE	4:W:354:GLN:CB	2.96	0.43
3:L:69:LEU:HB3	3:L:70:PRO:HD3	1.99	0.43
1:M:485:GLU:OE2	1:M:584:TYR:N	2.50	0.43
1:M:529:PRO:HB3	4:Z:354:GLN:HA	2.00	0.43
1:M:639:GLY:H	4:Z:344:SER:HB3	1.82	0.43
1:M:787:ILE:HG23	1:M:791:GLN:HG3	2.00	0.43
1:M:817:GLN:CD	2:N:127:ARG:CG	2.91	0.43
1:P:195:TYR:CD2	1:P:199:ILE:HD13	2.54	0.43
1:P:400:ALA:CB	1:P:606:THR:HG22	2.49	0.43
1:P:516:GLY:O	1:P:518:ASP:N	2.51	0.43
1:P:723:ARG:HE	1:P:779:ARG:HD2	1.83	0.43
1:P:725:ARG:HA	1:P:732:ILE:HG22	1.99	0.43
1:P:747:LEU:HD23	1:P:747:LEU:C	2.43	0.43
4:1:315:LYS:HD2	4:1:315:LYS:HA	1.92	0.43
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	0.43
4:3:287:ILE:CG2	4:5:204:ALA:N	2.79	0.43
4:5:149:THR:HA	4:5:165:ILE:O	2.19	0.43
4:8:193:LEU:O	4:8:198:TYR:HD2	2.01	0.43
1:A:391:GLY:HA3	1:A:616:VAL:HG23	2.00	0.43
1:A:541:MET:HG2	4:8:345:ILE:HG23	2.01	0.43
1:A:725:ARG:CZ	1:A:737:PHE:CE1	3.02	0.43
1:A:769:ALA:N	1:A:771:LEU:CB	2.82	0.43
1:D:40:VAL:HG23	1:D:76:GLN:O	2.19	0.43
1:D:86:ASP:OD2	1:D:87:MLY:HH22	2.19	0.43
1:D:537:GLU:C	4:9:350:SER:N	2.77	0.43
1:D:541:MET:HG2	4:9:345:ILE:HG22	2.00	0.43
1:D:689:GLU:HA	1:D:692:LEU:HB2	1.99	0.43
1:D:797:PHE:CD2	3:F:126:LEU:CD2	2.89	0.43
1:G:793:ARG:HA	3:I:40:ASN:HB3	2.00	0.43
1:G:817:GLN:CB	2:H:127:ARG:HH11	2.32	0.43
2:H:144:VAL:HG12	2:H:153:ILE:HD13	1.92	0.43
3:I:119:THR:O	3:I:123:VAL:HG23	2.18	0.43
1:J:185:LYS:H	1:J:185:LYS:HG3	1.63	0.43
1:J:226:ASN:HB2	1:J:227:PRO:CD	2.47	0.43
1:J:295:MLY:CE	1:J:332:MET:CE	2.97	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CZ	3.01	0.43
1:J:732:ILE:HG21	1:J:747:LEU:CD1	0.63	0.43
1:J:836:PHE:CE1	2:K:160:GLY:N	2.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:537:GLU:OE1	4:Z:350:SER:HA	2.19	0.43
1:M:541:MET:HG2	4:Z:345:ILE:HG22	2.00	0.43
3:O:50:LEU:O	3:O:53:PRO:HG2	2.18	0.43
1:P:86:ASP:OD2	1:P:87:MLY:HH22	2.19	0.43
1:P:391:GLY:HA3	1:P:616:VAL:HG23	2.01	0.43
1:P:500:GLN:HB2	1:P:512:PHE:CZ	2.54	0.43
2:Q:140:PHE:HA	2:Q:141:PRO:HD2	1.56	0.43
3:R:50:LEU:O	3:R:53:PRO:HG2	2.18	0.43
4:1:287:ILE:CB	4:3:203:THR:HB	2.47	0.43
4:6:193:LEU:O	4:6:198:TYR:HD2	2.01	0.43
4:7:205:GLU:O	4:7:208:ILE:HG22	2.18	0.43
4:V:149:THR:HA	4:V:165:ILE:O	2.19	0.43
4:X:149:THR:HA	4:X:165:ILE:O	2.19	0.43
4:X:291:LYS:HE2	4:Z:243:PRO:CA	2.41	0.43
4:Y:253:GLU:H	4:Y:253:GLU:CD	2.25	0.43
1:A:40:VAL:HG23	1:A:76:GLN:O	2.19	0.43
1:A:64:THR:CG2	1:A:65:GLU:H	2.32	0.43
1:A:136:ASN:HA	1:A:137:PRO:HD3	1.50	0.43
1:A:529:PRO:HB3	4:8:354:GLN:HA	2.00	0.43
1:A:625:THR:H	1:A:625:THR:HG22	1.48	0.43
1:A:829:TRP:O	1:A:832:MET:N	2.50	0.43
1:D:14:ALA:N	1:D:15:PRO:CD	2.81	0.43
1:D:129:TYR:HD1	1:D:129:TYR:HA	1.65	0.43
1:D:274:ARG:HH22	1:D:282:GLU:CD	2.27	0.43
1:D:295:MLY:CE	1:D:332:MET:CE	2.97	0.43
1:D:330:GLU:O	1:D:333:ALA:HB3	2.17	0.43
1:D:496:PHE:HB2	1:D:515:PHE:CD2	2.54	0.43
1:D:642:LYS:HB2	4:9:24:ASP:O	1.88	0.43
1:D:655:GLU:CD	4:9:1:ASP:HB2	2.43	0.43
1:G:129:TYR:HD1	1:G:129:TYR:HA	1.65	0.43
1:G:195:TYR:CD2	1:G:199:ILE:HD13	2.54	0.43
1:G:354:LEU:HD12	1:G:354:LEU:HA	1.56	0.43
1:G:541:MET:HG2	4:V:345:ILE:HG22	2.01	0.43
1:J:174:SER:OG	1:J:669:PRO:HA	2.18	0.43
1:J:246:PHE:HB3	1:J:270:LEU:HD12	2.01	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CE1	3.02	0.43
1:J:747:LEU:HD23	1:J:747:LEU:C	2.43	0.43
1:J:751:GLY:C	1:J:753:VAL:HG22	2.43	0.43
1:M:109:ARG:CD	1:M:117:THR:HB	2.49	0.43
1:M:195:TYR:CD2	1:M:199:ILE:HD13	2.54	0.43
1:M:274:ARG:HH22	1:M:282:GLU:CD	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:400:ALA:CB	1:M:606:THR:HG22	2.49	0.43
1:M:830:PRO:HB2	2:N:67:MET:SD	2.58	0.43
1:P:246:PHE:HB3	1:P:270:LEU:HD12	2.01	0.43
1:P:406:VAL:O	1:P:412:ALA:HA	2.19	0.43
1:P:553:MLY:N	4:3:49:GLN:HG3	2.07	0.43
1:P:584:TYR:CD1	1:P:584:TYR:C	2.96	0.43
1:P:675:ILE:HG23	1:P:676:ILE:N	2.33	0.43
1:P:707:CYS:C	1:P:710:GLY:N	2.76	0.43
1:P:725:ARG:CZ	1:P:737:PHE:CZ	3.01	0.43
3:R:119:THR:O	3:R:123:VAL:HG23	2.18	0.43
4:6:149:THR:HA	4:6:165:ILE:O	2.19	0.43
4:6:205:GLU:O	4:6:208:ILE:HG22	2.18	0.43
4:6:315:LYS:HD2	4:6:315:LYS:HA	1.92	0.43
4:9:299:MET:HE2	4:9:299:MET:HB2	1.82	0.43
4:V:47:MET:HE2	4:V:47:MET:HB2	1.79	0.43
4:W:193:LEU:O	4:W:198:TYR:HD2	2.01	0.43
4:X:220:ALA:HB3	4:X:223:PHE:CD1	2.53	0.43
1:A:174:SER:OG	1:A:669:PRO:HA	2.18	0.43
1:A:221:GLN:HG2	1:A:221:GLN:H	1.47	0.43
1:A:354:LEU:HD12	1:A:354:LEU:HA	1.56	0.43
1:A:537:GLU:OE1	4:8:350:SER:HA	2.19	0.43
1:D:151:ALA:HB1	1:D:152:PRO:HD2	2.01	0.43
1:D:400:ALA:CB	1:D:606:THR:HG22	2.49	0.43
1:D:442:VAL:O	1:D:445:ILE:HB	2.19	0.43
1:D:534:SER:CB	4:9:351:THR:HA	2.49	0.43
1:D:541:MET:CG	4:9:345:ILE:C	2.87	0.43
1:D:819:ASN:HB3	2:E:157:ILE:HG21	2.01	0.43
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.43
1:G:84:MLY:CB	1:G:723:ARG:HD2	2.48	0.43
1:G:406:VAL:O	1:G:412:ALA:HA	2.19	0.43
1:G:823:PHE:CE1	2:H:160:GLY:HA2	2.53	0.43
1:G:831:TRP:HZ2	2:H:47:LEU:CD1	2.32	0.43
3:I:63:ILE:CG2	3:I:64:THR:H	2.32	0.43
1:J:500:GLN:HB2	1:J:512:PHE:CZ	2.54	0.43
1:J:543:PRO:CD	4:W:143:TYR:O	2.64	0.43
1:J:584:TYR:CD1	1:J:584:TYR:C	2.96	0.43
1:J:795:ARG:C	3:L:35:ARG:CZ	2.92	0.43
1:M:169:ASP:O	1:M:170:ARG:HB2	2.19	0.43
1:M:223:ILE:C	1:M:225:ALA:N	2.76	0.43
1:M:711:PHE:HB3	1:M:766:PHE:HB3	2.00	0.43
1:M:787:ILE:HD13	1:M:787:ILE:HG21	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:795:ARG:HB3	3:O:35:ARG:NH2	2.34	0.43
1:P:123:CYS:HB2	1:P:158:ILE:HD13	2.00	0.43
1:P:201:ALA:O	1:P:202:SER:OG	2.36	0.43
1:P:751:GLY:C	1:P:753:VAL:HG22	2.43	0.43
1:P:809:ARG:CZ	2:Q:120:LEU:HD13	2.49	0.43
3:R:48:LYS:HD3	3:R:48:LYS:HA	1.17	0.43
4:2:205:GLU:O	4:2:208:ILE:HG22	2.18	0.43
4:2:220:ALA:HB3	4:2:223:PHE:CD1	2.53	0.43
4:3:171:LEU:HA	4:3:172:PRO:HD2	1.84	0.43
4:4:220:ALA:HB3	4:4:223:PHE:CD1	2.53	0.43
4:4:253:GLU:H	4:4:253:GLU:CD	2.25	0.43
4:5:205:GLU:O	4:5:208:ILE:HG22	2.18	0.43
4:W:149:THR:HA	4:W:165:ILE:O	2.19	0.43
4:X:180:LEU:HD11	4:X:261:LEU:HD23	2.01	0.43
1:A:406:VAL:O	1:A:412:ALA:HA	2.19	0.42
1:A:409:GLY:HA3	4:8:332:PRO:C	2.43	0.42
1:A:442:VAL:O	1:A:445:ILE:HB	2.19	0.42
1:D:166:MET:HE1	1:D:254:PHE:CB	2.46	0.42
1:D:294:ASN:OD1	1:D:307:THR:HG21	2.19	0.42
1:D:408:VAL:HG22	1:D:636:LYS:HG2	1.52	0.42
1:D:529:PRO:HB3	4:9:354:GLN:HA	2.00	0.42
1:D:836:PHE:CD2	2:E:161:GLU:OE1	2.67	0.42
3:F:50:LEU:O	3:F:53:PRO:HG2	2.18	0.42
1:G:409:GLY:HA3	4:V:332:PRO:C	2.44	0.42
1:G:817:GLN:NE2	2:H:128:PHE:CE1	2.86	0.42
1:G:835:PHE:CD1	2:H:30:ALA:HB2	2.54	0.42
1:J:86:ASP:OD2	1:J:87:MLY:HH22	2.19	0.42
1:J:141:LEU:HD12	1:J:141:LEU:N	2.32	0.42
1:J:274:ARG:HH22	1:J:282:GLU:CD	2.27	0.42
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.42
1:J:537:GLU:OE1	4:W:350:SER:HA	2.19	0.42
1:M:418:THR:CG2	1:M:419:VAL:N	2.79	0.42
1:M:496:PHE:HB2	1:M:515:PHE:CD2	2.53	0.42
1:M:661:MET:HE3	1:M:661:MET:HB3	1.74	0.42
1:M:665:ARG:C	1:M:667:THR:N	2.74	0.42
1:M:675:ILE:HG23	1:M:676:ILE:N	2.33	0.42
1:P:136:ASN:O	1:P:139:VAL:N	2.47	0.42
1:P:169:ASP:O	1:P:170:ARG:HB2	2.19	0.42
1:P:206:LYS:CE	1:P:217:THR:HG23	2.30	0.42
1:P:449:LEU:HA	1:P:449:LEU:HD12	1.60	0.42
1:P:783:LEU:O	1:P:786:ILE:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:113:LYS:C	2:Q:147:ASN:HB2	2.43	0.42
4:1:149:THR:HA	4:1:165:ILE:O	2.19	0.42
4:3:149:THR:HA	4:3:165:ILE:O	2.19	0.42
4:5:193:LEU:O	4:5:198:TYR:HD2	2.01	0.42
4:Y:149:THR:HA	4:Y:165:ILE:O	2.19	0.42
4:Z:193:LEU:O	4:Z:198:TYR:HD2	2.01	0.42
1:A:445:ILE:HG22	1:A:449:LEU:HD22	2.01	0.42
1:A:501:GLU:HB3	1:A:762:HIS:CG	2.54	0.42
1:A:661:MET:HE3	1:A:661:MET:HB3	1.74	0.42
1:D:17:LEU:HA	1:D:17:LEU:HD12	1.67	0.42
1:D:62:VAL:HG12	1:D:63:MLY:N	2.35	0.42
1:D:485:GLU:HA	1:D:584:TYR:HE2	1.83	0.42
1:D:551:MLY:C	4:W:47:MET:HA	2.48	0.42
1:G:169:ASP:O	1:G:170:ARG:HB2	2.19	0.42
1:G:226:ASN:HB2	1:G:227:PRO:CD	2.48	0.42
1:G:418:THR:CG2	1:G:419:VAL:N	2.79	0.42
1:G:442:VAL:O	1:G:445:ILE:HB	2.19	0.42
1:G:553:MLY:CB	4:X:46:GLY:HA3	2.49	0.42
1:G:568:PRO:O	1:G:570:PRO:HD3	2.19	0.42
1:G:584:TYR:CD1	1:G:584:TYR:C	2.96	0.42
2:H:140:PHE:CD2	2:H:144:VAL:HG11	2.55	0.42
3:I:48:LYS:HD3	3:I:48:LYS:HA	1.18	0.42
1:J:195:TYR:CD2	1:J:199:ILE:HD13	2.54	0.42
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.42
1:J:408:VAL:HG22	1:J:636:LYS:HG2	1.51	0.42
1:J:445:ILE:HG22	1:J:449:LEU:HD22	2.02	0.42
1:J:655:GLU:CD	4:W:1:ASP:HB2	2.43	0.42
1:J:839:MLY:N	1:J:840:PRO:HD2	2.35	0.42
3:L:50:LEU:O	3:L:53:PRO:HG2	2.18	0.42
1:M:62:VAL:HG12	1:M:63:MLY:N	2.35	0.42
1:M:166:MET:CE	1:M:254:PHE:HB2	2.47	0.42
1:M:294:ASN:OD1	1:M:307:THR:HG21	2.19	0.42
1:M:655:GLU:CD	4:Z:1:ASP:HB2	2.43	0.42
1:P:223:ILE:C	1:P:225:ALA:N	2.77	0.42
1:P:439:LEU:N	1:P:439:LEU:CD1	2.81	0.42
1:P:442:VAL:O	1:P:445:ILE:HB	2.19	0.42
1:P:506:GLU:CB	1:P:761:GLY:HA3	2.43	0.42
1:P:537:GLU:OE1	4:1:350:SER:HA	2.19	0.42
1:P:544:LYS:HB3	4:3:45:VAL:CG2	2.42	0.42
1:P:659:MLY:HH22	1:P:659:MLY:HD2	1.42	0.42
1:P:747:LEU:O	1:P:749:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:787:ILE:HG23	1:P:791:GLN:HG3	2.00	0.42
4:2:149:THR:HA	4:2:165:ILE:O	2.19	0.42
4:5:180:LEU:HD11	4:5:261:LEU:HD23	2.02	0.42
4:V:220:ALA:HB3	4:V:223:PHE:CD1	2.53	0.42
4:W:206:ARG:O	4:W:209:VAL:HG12	2.20	0.42
1:A:14:ALA:N	1:A:15:PRO:CD	2.81	0.42
1:A:556:ASP:CA	4:V:49:GLN:O	2.52	0.42
1:A:747:LEU:HD23	1:A:747:LEU:C	2.44	0.42
1:D:64:THR:CG2	1:D:65:GLU:H	2.32	0.42
1:D:169:ASP:O	1:D:170:ARG:HB2	2.19	0.42
1:D:173:GLN:HG3	1:D:670:HIS:CD2	2.55	0.42
1:D:724:TYR:HB3	1:D:727:LEU:CD1	2.48	0.42
1:D:787:ILE:HG23	1:D:791:GLN:HG3	2.01	0.42
1:D:829:TRP:HA	1:D:830:PRO:HD2	1.86	0.42
1:G:217:THR:HG22	1:G:218:LEU:N	2.34	0.42
1:G:223:ILE:C	1:G:225:ALA:N	2.77	0.42
1:G:279:LEU:CB	1:G:280:PRO:HD2	2.49	0.42
1:G:295:MLY:CE	1:G:332:MET:CE	2.97	0.42
1:G:449:LEU:N	1:G:449:LEU:CD1	2.82	0.42
1:G:642:LYS:HB3	4:V:24:ASP:HB2	1.38	0.42
1:G:829:TRP:CZ3	2:H:87:LYS:CE	3.01	0.42
1:J:42:HIS:C	1:J:42:HIS:ND1	2.78	0.42
1:J:62:VAL:HG12	1:J:63:MLY:N	2.35	0.42
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	0.42
1:J:732:ILE:CG2	1:J:747:LEU:CD1	0.65	0.42
1:J:757:GLN:CA	1:J:776:GLU:CB	2.97	0.42
1:J:798:LEU:HD12	1:J:798:LEU:HA	1.36	0.42
1:M:173:GLN:HG3	1:M:670:HIS:CD2	2.55	0.42
1:M:201:ALA:O	1:M:202:SER:OG	2.36	0.42
1:M:320:ILE:O	1:M:320:ILE:HG22	2.18	0.42
1:M:410:ASN:HA	4:Z:334:GLU:HB3	1.29	0.42
1:M:442:VAL:O	1:M:445:ILE:HB	2.19	0.42
1:M:725:ARG:CZ	1:M:737:PHE:CE1	3.02	0.42
1:M:754:ASP:C	1:M:756:THR:H	2.27	0.42
1:M:834:LEU:HD22	2:N:34:ILE:HD13	2.02	0.42
1:P:40:VAL:HG23	1:P:76:GLN:O	2.19	0.42
1:P:42:HIS:C	1:P:42:HIS:ND1	2.78	0.42
1:P:599:ASN:CG	1:P:649:VAL:CB	2.80	0.42
1:P:783:LEU:HA	1:P:786:ILE:CD1	2.42	0.42
1:P:792:ALA:HA	3:R:42:THR:HA	2.02	0.42
1:P:839:MLY:N	1:P:840:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:149:ASP:OD2	2:Q:150:TYR:CA	2.64	0.42
4:6:180:LEU:HD11	4:6:261:LEU:HD23	2.02	0.42
4:7:180:LEU:HD11	4:7:261:LEU:HD23	2.02	0.42
4:7:287:ILE:CB	4:9:204:ALA:H	2.13	0.42
4:8:149:THR:HA	4:8:165:ILE:O	2.19	0.42
4:8:205:GLU:O	4:8:208:ILE:HG22	2.19	0.42
4:8:206:ARG:O	4:8:209:VAL:HG12	2.20	0.42
1:A:787:ILE:HG21	1:A:787:ILE:HD13	1.67	0.42
1:A:839:MLY:N	1:A:840:PRO:HD2	2.35	0.42
1:D:195:TYR:CD2	1:D:199:ILE:HD13	2.54	0.42
1:D:445:ILE:HG22	1:D:449:LEU:HD22	2.02	0.42
1:D:568:PRO:O	1:D:570:PRO:HD3	2.19	0.42
1:D:690:LEU:O	1:D:694:GLN:HG3	2.20	0.42
2:E:137:TRP:CA	2:E:145:ALA:HB2	2.37	0.42
2:E:149:ASP:OD2	2:E:150:TYR:CA	2.65	0.42
1:G:294:ASN:OD1	1:G:307:THR:HG21	2.19	0.42
1:G:320:ILE:O	1:G:320:ILE:HG22	2.18	0.42
1:G:445:ILE:HG22	1:G:449:LEU:HD22	2.01	0.42
1:G:541:MET:HG2	4:V:345:ILE:HG23	2.02	0.42
1:G:543:PRO:CD	4:V:143:TYR:O	2.64	0.42
1:G:659:MLY:HH22	1:G:659:MLY:HD2	1.42	0.42
1:G:747:LEU:HD23	1:G:747:LEU:C	2.43	0.42
1:G:797:PHE:HE1	3:I:146:ILE:HA	1.85	0.42
1:J:95:THR:HA	1:J:713:SER:HG	1.75	0.42
1:J:537:GLU:C	4:W:350:SER:N	2.77	0.42
1:J:747:LEU:O	1:J:749:GLY:N	2.53	0.42
1:J:789:ALA:HA	3:L:81:GLN:NE2	2.35	0.42
1:M:62:VAL:O	1:M:69:THR:HA	2.20	0.42
1:M:86:ASP:OD2	1:M:87:MLY:HH22	2.19	0.42
1:M:406:VAL:O	1:M:412:ALA:HA	2.19	0.42
1:M:584:TYR:CD1	1:M:584:TYR:C	2.96	0.42
1:M:636:LYS:C	1:M:637:LYS:HG3	2.44	0.42
1:M:767:PHE:CD2	1:M:772:LEU:CD1	3.03	0.42
3:O:11:LYS:HE2	3:O:11:LYS:HB3	1.83	0.42
1:P:149:GLN:HE21	1:P:149:GLN:HB2	1.71	0.42
1:P:217:THR:HG22	1:P:218:LEU:N	2.34	0.42
1:P:673:ARG:HD2	1:P:673:ARG:HA	1.79	0.42
3:R:25:ILE:O	3:R:63:ILE:CB	2.66	0.42
4:1:47:MET:HB2	4:1:47:MET:HE2	1.79	0.42
4:2:180:LEU:HD11	4:2:261:LEU:HD23	2.02	0.42
4:2:206:ARG:O	4:2:209:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:47:MET:HE2	4:4:47:MET:HB2	1.79	0.42
4:5:206:ARG:O	4:5:209:VAL:HG12	2.20	0.42
4:5:222:ASP:OD1	4:5:224:GLU:HB3	2.20	0.42
4:9:205:GLU:O	4:9:208:ILE:HG22	2.19	0.42
4:Y:193:LEU:O	4:Y:198:TYR:HD2	2.01	0.42
4:Z:180:LEU:HD11	4:Z:261:LEU:HD23	2.02	0.42
1:A:502:GLU:C	1:A:504:MLY:N	2.77	0.42
1:A:534:SER:CB	4:8:351:THR:HA	2.49	0.42
1:A:568:PRO:O	1:A:570:PRO:HD3	2.19	0.42
1:D:136:ASN:HA	1:D:137:PRO:HD3	1.50	0.42
1:D:141:LEU:HD12	1:D:141:LEU:N	2.32	0.42
1:D:330:GLU:HG2	1:D:330:GLU:H	1.54	0.42
1:D:369:MLY:HH22	1:D:369:MLY:HD3	1.79	0.42
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.42
1:D:554:LEU:HD12	1:D:554:LEU:HA	1.77	0.42
1:D:795:ARG:NH1	3:F:116:GLU:CD	2.70	0.42
1:D:842:LEU:N	1:D:842:LEU:CD1	2.83	0.42
2:E:139:ALA:O	2:E:141:PRO:CD	2.52	0.42
2:E:140:PHE:CD2	2:E:144:VAL:HG11	2.54	0.42
1:G:166:MET:CE	1:G:254:PHE:HB2	2.46	0.42
1:G:505:MLY:HD2	1:G:762:HIS:NE2	2.35	0.42
1:G:775:LEU:HD12	1:G:775:LEU:HA	1.71	0.42
1:J:64:THR:CG2	1:J:65:GLU:H	2.32	0.42
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.42
1:J:442:VAL:O	1:J:445:ILE:HB	2.19	0.42
1:J:754:ASP:C	1:J:756:THR:H	2.27	0.42
1:J:776:GLU:O	1:J:780:ASP:N	2.45	0.42
3:L:62:ALA:O	3:L:63:ILE:HG13	2.14	0.42
1:M:174:SER:HA	1:M:460:GLY:O	2.20	0.42
1:M:218:LEU:HD22	1:M:222:ILE:HG13	1.95	0.42
1:M:295:MLY:CE	1:M:332:MET:CE	2.97	0.42
1:M:322:VAL:CG1	1:M:325:ILE:HG13	2.49	0.42
1:M:502:GLU:C	1:M:504:MLY:N	2.77	0.42
1:M:541:MET:HB3	4:Z:345:ILE:HG22	2.00	0.42
1:M:725:ARG:HA	1:M:732:ILE:CG2	2.50	0.42
1:M:842:LEU:N	1:M:842:LEU:CD1	2.82	0.42
2:N:112:ILE:O	2:N:148:VAL:N	2.50	0.42
3:O:63:ILE:CG2	3:O:64:THR:H	2.33	0.42
1:P:141:LEU:HD12	1:P:141:LEU:N	2.32	0.42
1:P:155:ILE:HG22	1:P:156:PHE:N	2.33	0.42
1:P:202:SER:C	1:P:207:LYS:HE3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:295:MLY:CE	1:P:332:MET:CE	2.97	0.42
1:P:796:GLY:CA	3:R:35:ARG:CZ	2.97	0.42
4:1:180:LEU:HD11	4:1:261:LEU:HD23	2.02	0.42
4:7:222:ASP:OD1	4:7:224:GLU:HB3	2.20	0.42
4:8:180:LEU:HD11	4:8:261:LEU:HD23	2.02	0.42
4:9:180:LEU:HD11	4:9:261:LEU:HD23	2.02	0.42
4:9:196:ARG:HH21	4:9:249:THR:HG23	1.85	0.42
4:V:180:LEU:HD11	4:V:261:LEU:HD23	2.02	0.42
4:V:193:LEU:O	4:V:198:TYR:HD2	2.01	0.42
4:X:206:ARG:O	4:X:209:VAL:HG12	2.20	0.42
4:Y:222:ASP:OD1	4:Y:224:GLU:HB3	2.20	0.42
4:Z:299:MET:HE2	4:Z:299:MET:HB2	1.82	0.42
1:A:86:ASP:OD2	1:A:87:MLY:HH22	2.19	0.42
1:A:94:MET:C	1:A:713:SER:HB3	2.37	0.42
1:A:169:ASP:O	1:A:170:ARG:HB2	2.19	0.42
1:A:195:TYR:CD2	1:A:199:ILE:HD13	2.54	0.42
1:A:578:HIS:CD2	1:A:592:ILE:H	2.38	0.42
1:A:637:LYS:HD2	4:8:144:ALA:HB3	1.21	0.42
1:A:690:LEU:O	1:A:694:GLN:HG3	2.20	0.42
1:A:725:ARG:HA	1:A:732:ILE:CG2	2.50	0.42
1:A:733:PRO:C	1:A:737:PHE:CE1	2.97	0.42
1:A:744:SER:O	1:A:748:LEU:HD12	2.20	0.42
1:A:776:GLU:O	1:A:780:ASP:N	2.45	0.42
1:A:826:VAL:O	1:A:828:HIS:N	2.53	0.42
1:D:62:VAL:O	1:D:69:THR:HA	2.20	0.42
1:D:725:ARG:HA	1:D:732:ILE:CG2	2.50	0.42
1:D:839:MLY:N	1:D:840:PRO:HD2	2.35	0.42
1:G:174:SER:HA	1:G:460:GLY:O	2.20	0.42
1:G:271:GLU:OE1	1:G:274:ARG:NH1	2.53	0.42
1:G:409:GLY:N	1:G:636:LYS:CD	2.71	0.42
1:G:449:LEU:HD12	1:G:449:LEU:HA	1.60	0.42
1:G:725:ARG:CZ	1:G:737:PHE:CE1	3.02	0.42
1:G:741:LYS:HG2	1:G:742:LYS:N	2.35	0.42
1:G:842:LEU:N	1:G:842:LEU:CD1	2.82	0.42
3:I:52:ASN:CB	3:I:53:PRO:HD3	2.28	0.42
1:J:62:VAL:O	1:J:69:THR:HA	2.20	0.42
1:J:223:ILE:C	1:J:225:ALA:N	2.77	0.42
1:J:485:GLU:OE2	1:J:584:TYR:N	2.50	0.42
1:J:725:ARG:NE	1:J:733:PRO:CB	1.95	0.42
1:J:826:VAL:O	1:J:828:HIS:N	2.53	0.42
1:M:14:ALA:N	1:M:15:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:151:ALA:HB1	1:M:152:PRO:HD2	2.01	0.42
1:M:214:MET:C	1:M:340:ILE:HD13	2.45	0.42
1:M:464:ILE:HG21	1:M:464:ILE:HD13	1.69	0.42
1:M:541:MET:HG2	4:Z:345:ILE:HG23	2.02	0.42
1:M:568:PRO:O	1:M:570:PRO:HD3	2.19	0.42
1:M:830:PRO:CG	2:N:67:MET:CE	2.83	0.42
1:P:97:LEU:HD12	1:P:97:LEU:HA	1.67	0.42
1:P:568:PRO:O	1:P:570:PRO:HD3	2.19	0.42
4:1:205:GLU:O	4:1:208:ILE:HG22	2.19	0.42
4:3:180:LEU:HD11	4:3:261:LEU:HD23	2.02	0.42
4:4:206:ARG:O	4:4:209:VAL:HG12	2.20	0.42
4:4:322:PRO:CA	4:6:244:ASP:HB2	2.49	0.42
4:7:315:LYS:HD2	4:7:315:LYS:HA	1.92	0.42
4:W:205:GLU:O	4:W:208:ILE:HG22	2.18	0.42
4:Z:206:ARG:O	4:Z:209:VAL:HG12	2.20	0.42
1:A:408:VAL:HA	1:A:636:LYS:HG3	1.03	0.42
1:A:537:GLU:C	4:8:350:SER:N	2.77	0.42
1:A:607:VAL:C	1:A:609:GLY:N	2.77	0.42
1:D:38:VAL:HG13	1:D:39:PHE:N	2.35	0.42
1:D:214:MET:C	1:D:340:ILE:HD13	2.45	0.42
1:D:229:LEU:HD12	1:D:229:LEU:HA	1.75	0.42
1:D:246:PHE:HB3	1:D:270:LEU:HD12	2.01	0.42
1:D:556:ASP:CA	4:W:49:GLN:O	2.52	0.42
1:D:733:PRO:CB	1:D:737:PHE:CE1	3.02	0.42
1:D:744:SER:O	1:D:748:LEU:HD12	2.20	0.42
1:G:64:THR:CG2	1:G:65:GLU:H	2.32	0.42
1:G:755:HIS:H	1:G:779:ARG:NE	2.16	0.42
1:J:38:VAL:HG13	1:J:39:PHE:N	2.35	0.42
1:J:534:SER:HB2	4:W:354:GLN:HE22	1.57	0.42
1:J:553:MLY:HE2	4:Y:45:VAL:HB	2.01	0.42
1:J:612:GLN:NE2	1:J:627:GLY:H	2.15	0.42
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.42
1:J:787:ILE:HD13	1:J:787:ILE:HG21	1.67	0.42
1:J:787:ILE:HG23	1:J:791:GLN:HG3	2.01	0.42
2:K:140:PHE:CD2	2:K:144:VAL:HG11	2.55	0.42
1:M:534:SER:CB	4:Z:351:THR:HA	2.49	0.42
1:M:733:PRO:CB	1:M:737:PHE:CE1	3.03	0.42
2:N:144:VAL:HG12	2:N:153:ILE:HD13	1.93	0.42
1:P:14:ALA:HB3	1:P:15:PRO:CD	2.46	0.42
1:P:213:LYS:HA	1:P:220:ASP:OD2	2.19	0.42
1:P:754:ASP:C	1:P:756:THR:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:826:VAL:O	1:P:828:HIS:N	2.53	0.42
2:Q:140:PHE:CD2	2:Q:144:VAL:HG11	2.55	0.42
4:1:206:ARG:O	4:1:209:VAL:HG12	2.20	0.42
4:4:196:ARG:HH21	4:4:249:THR:HG23	1.85	0.42
4:5:196:ARG:HH21	4:5:249:THR:HG23	1.85	0.42
4:8:220:ALA:HB3	4:8:223:PHE:CD1	2.53	0.42
4:V:206:ARG:O	4:V:209:VAL:HG12	2.20	0.42
4:V:222:ASP:OD1	4:V:224:GLU:HB3	2.19	0.42
4:Y:180:LEU:HD11	4:Y:261:LEU:HD23	2.02	0.42
1:A:42:HIS:C	1:A:42:HIS:ND1	2.78	0.42
1:A:223:ILE:C	1:A:225:ALA:N	2.76	0.42
1:A:295:MLY:CE	1:A:332:MET:CE	2.97	0.42
1:A:747:LEU:O	1:A:749:GLY:N	2.53	0.42
1:D:398:LEU:HA	1:D:398:LEU:HD12	1.84	0.42
1:D:578:HIS:CD2	1:D:592:ILE:H	2.38	0.42
1:D:584:TYR:CD1	1:D:584:TYR:C	2.96	0.42
1:D:636:LYS:C	1:D:637:LYS:HG3	2.44	0.42
1:D:733:PRO:C	1:D:737:PHE:CE1	2.97	0.42
1:D:826:VAL:O	1:D:828:HIS:N	2.53	0.42
1:D:831:TRP:CE3	2:E:34:ILE:CD1	3.03	0.42
2:E:113:LYS:O	2:E:147:ASN:HB2	2.20	0.42
1:G:149:GLN:CG	1:G:763:THR:HG23	2.23	0.42
1:G:214:MET:C	1:G:340:ILE:HD13	2.45	0.42
1:G:308:ASN:HA	1:G:309:PRO:HD2	1.88	0.42
1:G:485:GLU:OE2	1:G:584:TYR:N	2.50	0.42
1:G:826:VAL:O	1:G:828:HIS:N	2.53	0.42
2:H:140:PHE:HA	2:H:141:PRO:HD2	1.57	0.42
3:I:50:LEU:O	3:I:53:PRO:HG2	2.18	0.42
1:J:11:GLY:O	1:J:14:ALA:HB3	2.20	0.42
1:J:132:LEU:C	1:J:134:VAL:H	2.28	0.42
1:J:169:ASP:O	1:J:170:ARG:HB2	2.19	0.42
1:J:214:MET:C	1:J:340:ILE:HD13	2.45	0.42
1:J:443:ILE:HG22	1:J:444:ARG:N	2.29	0.42
1:J:462:LEU:HD11	1:J:464:ILE:CD1	2.50	0.42
1:J:641:LYS:CE	1:J:647:GLN:CB	2.75	0.42
1:J:793:ARG:HH11	3:L:40:ASN:HD22	1.68	0.42
1:M:42:HIS:C	1:M:42:HIS:ND1	2.78	0.42
1:M:132:LEU:C	1:M:134:VAL:H	2.28	0.42
1:M:462:LEU:HD11	1:M:464:ILE:CD1	2.50	0.42
3:O:25:ILE:O	3:O:63:ILE:CB	2.66	0.42
1:P:530:MET:CB	4:1:354:GLN:CB	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:636:LYS:CB	4:1:334:GLU:OE1	2.68	0.42
1:P:723:ARG:NE	1:P:776:GLU:OE1	2.52	0.42
1:P:798:LEU:HG	3:R:122:GLU:HB3	2.02	0.42
1:P:804:ARG:O	1:P:808:GLU:HB2	2.20	0.42
4:2:203:THR:HG22	4:Z:287:ILE:CA	2.49	0.42
4:3:205:GLU:O	4:3:208:ILE:HG22	2.19	0.42
4:3:222:ASP:OD1	4:3:224:GLU:HB3	2.20	0.42
4:4:180:LEU:HD11	4:4:261:LEU:HD23	2.02	0.42
4:X:287:ILE:O	4:Z:205:GLU:OE2	2.37	0.42
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.19	0.42
1:A:62:VAL:O	1:A:69:THR:HA	2.19	0.42
1:A:97:LEU:HD12	1:A:97:LEU:HA	1.67	0.42
1:A:132:LEU:C	1:A:134:VAL:H	2.28	0.42
1:A:214:MET:C	1:A:340:ILE:HD13	2.45	0.42
1:A:787:ILE:HG23	1:A:791:GLN:HG3	2.00	0.42
1:D:406:VAL:O	1:D:412:ALA:HA	2.20	0.42
1:D:643:GLY:N	4:9:23:GLY:C	2.55	0.42
1:D:692:LEU:HD23	1:D:692:LEU:HA	1.84	0.42
1:D:823:PHE:CE1	2:E:156:VAL:HG13	2.55	0.42
2:E:144:VAL:HG12	2:E:153:ILE:HD13	1.92	0.42
3:F:48:LYS:HD3	3:F:48:LYS:HA	1.18	0.42
1:G:86:ASP:OD2	1:G:87:MLY:HH22	2.19	0.42
1:G:221:GLN:HG2	1:G:221:GLN:H	1.47	0.42
1:G:529:PRO:HB3	4:V:354:GLN:HA	2.01	0.42
1:G:578:HIS:CD2	1:G:592:ILE:H	2.38	0.42
1:G:636:LYS:C	1:G:637:LYS:HG3	2.45	0.42
1:G:725:ARG:CZ	1:G:733:PRO:CB	2.83	0.42
1:G:744:SER:O	1:G:748:LEU:HD12	2.20	0.42
1:G:747:LEU:O	1:G:749:GLY:N	2.52	0.42
1:G:795:ARG:HA	3:I:118:MET:SD	2.59	0.42
1:G:823:PHE:CE1	2:H:156:VAL:O	2.73	0.42
1:J:202:SER:C	1:J:207:LYS:HE3	2.44	0.42
1:J:400:ALA:CB	1:J:606:THR:HG22	2.49	0.42
1:J:406:VAL:O	1:J:412:ALA:HA	2.19	0.42
1:J:744:SER:O	1:J:748:LEU:HD12	2.20	0.42
1:M:135:TYR:HD2	1:M:191:ARG:CG	2.33	0.42
1:M:271:GLU:OE1	1:M:274:ARG:NH1	2.53	0.42
1:M:449:LEU:HA	1:M:449:LEU:HD12	1.60	0.42
1:M:578:HIS:CD2	1:M:592:ILE:H	2.38	0.42
1:M:690:LEU:O	1:M:694:GLN:HG3	2.20	0.42
1:M:709:LYS:O	1:M:768:MLY:HH11	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:113:LYS:O	2:N:147:ASN:HB2	2.20	0.42
1:P:195:TYR:CE2	1:P:199:ILE:HD13	2.55	0.42
1:P:214:MET:C	1:P:340:ILE:HD13	2.45	0.42
1:P:229:LEU:HA	1:P:229:LEU:HD12	1.75	0.42
1:P:294:ASN:OD1	1:P:307:THR:HG21	2.20	0.42
1:P:537:GLU:C	4:1:350:SER:N	2.77	0.42
1:P:541:MET:HB3	4:1:345:ILE:HG22	2.01	0.42
1:P:692:LEU:HA	1:P:692:LEU:HD23	1.85	0.42
1:P:725:ARG:HH21	3:R:85:GLU:CG	2.05	0.42
1:P:725:ARG:HA	1:P:732:ILE:CG2	2.50	0.42
4:1:193:LEU:HD11	4:1:250:ILE:HG13	2.02	0.42
4:1:196:ARG:HH21	4:1:249:THR:HG23	1.85	0.42
4:4:193:LEU:HD11	4:4:250:ILE:HG13	2.02	0.42
4:5:315:LYS:HD2	4:5:315:LYS:HA	1.92	0.42
4:6:222:ASP:OD1	4:6:224:GLU:HB3	2.20	0.42
4:8:369:ILE:HG23	4:8:370:VAL:N	2.35	0.42
4:9:222:ASP:OD1	4:9:224:GLU:HB3	2.19	0.42
4:W:180:LEU:HD11	4:W:261:LEU:HD23	2.02	0.42
4:W:222:ASP:OD1	4:W:224:GLU:HB3	2.20	0.42
4:W:369:ILE:HG23	4:W:370:VAL:N	2.35	0.42
4:Y:205:GLU:O	4:Y:208:ILE:HG22	2.19	0.42
4:Y:206:ARG:O	4:Y:209:VAL:HG12	2.20	0.42
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	0.42
1:A:173:GLN:HG3	1:A:670:HIS:CD2	2.54	0.42
1:A:356:GLY:HA2	1:A:359:MET:HG3	2.02	0.42
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	0.42
1:A:584:TYR:CD1	1:A:584:TYR:C	2.97	0.42
1:A:636:LYS:CB	4:8:334:GLU:OE1	2.67	0.42
1:D:132:LEU:C	1:D:134:VAL:H	2.28	0.42
1:D:195:TYR:CE2	1:D:199:ILE:HD13	2.55	0.42
1:D:636:LYS:CB	4:9:334:GLU:OE1	2.68	0.42
1:D:754:ASP:C	1:D:756:THR:H	2.27	0.42
3:F:63:ILE:CG2	3:F:64:THR:H	2.32	0.42
1:G:14:ALA:HB3	1:G:15:PRO:CD	2.46	0.42
1:G:135:TYR:HD2	1:G:191:ARG:CG	2.33	0.42
1:G:274:ARG:HH22	1:G:282:GLU:CD	2.27	0.42
1:G:629:GLU:CB	1:G:645:SER:N	2.74	0.42
2:H:113:LYS:O	2:H:147:ASN:HB2	2.20	0.42
1:J:25:ILE:HG23	1:J:29:ASN:HD22	1.85	0.42
1:J:81:ASN:CG	1:J:96:HIS:HB2	2.45	0.42
1:J:556:ASP:HB3	4:Y:47:MET:HB2	1.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:636:LYS:C	1:J:637:LYS:HG3	2.44	0.42
1:J:690:LEU:O	1:J:694:GLN:HG3	2.20	0.42
1:M:296:MLY:HH11	1:M:348:MLY:CH2	2.48	0.42
1:M:466:GLY:CA	1:M:484:ASN:HD21	2.32	0.42
1:M:505:MLY:O	1:M:762:HIS:CE1	2.72	0.42
1:M:795:ARG:CG	3:O:118:MET:HE2	2.23	0.42
1:M:797:PHE:CD2	1:M:798:LEU:HD12	2.55	0.42
1:P:38:VAL:HG13	1:P:39:PHE:N	2.35	0.42
1:P:443:ILE:HG22	1:P:444:ARG:N	2.29	0.42
1:P:530:MET:CE	4:1:354:GLN:CB	2.96	0.42
1:P:530:MET:HE3	4:1:354:GLN:HG2	1.90	0.42
1:P:636:LYS:C	1:P:637:LYS:HG3	2.44	0.42
1:P:690:LEU:O	1:P:694:GLN:HG3	2.20	0.42
1:P:741:LYS:HG2	1:P:742:LYS:N	2.35	0.42
2:Q:113:LYS:O	2:Q:147:ASN:HB2	2.20	0.42
4:3:369:ILE:HG23	4:3:370:VAL:N	2.35	0.42
4:5:193:LEU:HD11	4:5:250:ILE:HG13	2.02	0.42
4:6:299:MET:HE2	4:6:299:MET:HB2	1.82	0.42
4:7:196:ARG:HH21	4:7:249:THR:HG23	1.85	0.42
4:8:222:ASP:OD1	4:8:224:GLU:HB3	2.19	0.42
4:9:206:ARG:O	4:9:209:VAL:HG12	2.20	0.42
4:9:226:GLU:HG3	4:9:255:PHE:CE2	2.55	0.42
4:X:291:LYS:CE	4:Z:243:PRO:HB3	2.09	0.42
4:X:315:LYS:HD2	4:X:315:LYS:HA	1.92	0.42
4:X:369:ILE:HG23	4:X:370:VAL:N	2.35	0.42
1:A:38:VAL:HG13	1:A:39:PHE:N	2.35	0.41
1:A:271:GLU:OE1	1:A:274:ARG:NH1	2.53	0.41
1:D:210:GLN:C	1:D:211:SER:HG	2.13	0.41
1:G:62:VAL:O	1:G:69:THR:HA	2.20	0.41
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.41
1:G:173:GLN:HG3	1:G:670:HIS:CD2	2.55	0.41
1:G:195:TYR:CE2	1:G:199:ILE:HD13	2.55	0.41
1:G:534:SER:CB	4:V:351:THR:HA	2.50	0.41
1:G:655:GLU:CD	4:V:1:ASP:HB2	2.44	0.41
1:G:733:PRO:CB	1:G:737:PHE:CE1	3.02	0.41
1:G:797:PHE:CD2	1:G:798:LEU:HD12	2.55	0.41
1:G:817:GLN:OE1	2:H:127:ARG:NE	2.48	0.41
1:J:51:THR:O	1:J:62:VAL:CG1	2.64	0.41
1:J:60:VAL:O	1:J:72:VAL:N	2.51	0.41
1:J:213:LYS:HA	1:J:220:ASP:OD2	2.19	0.41
1:J:332:MET:H	1:J:332:MET:HG2	1.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:539:GLU:OE2	1:J:553:MLY:HD3	2.20	0.41
1:J:641:LYS:C	4:W:22:ALA:O	2.60	0.41
1:J:822:SER:OG	2:K:91:ALA:N	2.53	0.41
1:M:88:ILE:HG21	1:M:88:ILE:HD12	1.78	0.41
1:M:635:GLY:C	4:Z:341:ILE:HG21	2.45	0.41
1:M:747:LEU:O	1:M:749:GLY:N	2.53	0.41
1:M:826:VAL:O	1:M:828:HIS:N	2.53	0.41
1:M:839:MLY:N	1:M:840:PRO:HD2	2.35	0.41
1:P:11:GLY:O	1:P:14:ALA:HB3	2.20	0.41
1:P:62:VAL:HG12	1:P:63:MLY:N	2.35	0.41
1:P:62:VAL:O	1:P:69:THR:HA	2.20	0.41
1:P:173:GLN:HG3	1:P:670:HIS:CD2	2.55	0.41
1:P:330:GLU:OE1	1:P:330:GLU:HA	2.20	0.41
1:P:410:ASN:HA	4:1:334:GLU:HB3	1.29	0.41
1:P:554:LEU:HA	1:P:554:LEU:HD12	1.77	0.41
1:P:578:HIS:CD2	1:P:592:ILE:H	2.38	0.41
1:P:793:ARG:HD3	3:R:40:ASN:ND2	2.35	0.41
3:R:63:ILE:CG2	3:R:64:THR:H	2.33	0.41
4:1:287:ILE:CG2	4:3:203:THR:N	2.57	0.41
4:3:193:LEU:HD11	4:3:250:ILE:HG13	2.02	0.41
4:4:222:ASP:OD1	4:4:224:GLU:HB3	2.20	0.41
4:7:193:LEU:HD11	4:7:250:ILE:HG13	2.02	0.41
4:7:206:ARG:O	4:7:209:VAL:HG12	2.20	0.41
4:8:193:LEU:HD11	4:8:250:ILE:HG13	2.02	0.41
4:V:221:LEU:HA	4:V:312:ARG:HG2	2.02	0.41
4:W:299:MET:HE2	4:W:299:MET:HB2	1.82	0.41
4:Y:226:GLU:HG3	4:Y:255:PHE:CE2	2.55	0.41
4:Y:315:LYS:HD2	4:Y:315:LYS:HA	1.92	0.41
1:A:151:ALA:HB1	1:A:152:PRO:HD2	2.01	0.41
1:A:294:ASN:OD1	1:A:307:THR:HG21	2.19	0.41
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	0.41
1:A:655:GLU:CD	4:8:1:ASP:HB2	2.43	0.41
1:A:673:ARG:HD2	1:A:673:ARG:HA	1.79	0.41
1:D:202:SER:C	1:D:207:LYS:HE3	2.44	0.41
1:D:320:ILE:O	1:D:320:ILE:HG22	2.18	0.41
1:D:568:PRO:CG	1:D:578:HIS:N	2.84	0.41
1:D:732:ILE:HG23	1:D:747:LEU:HD12	0.95	0.41
1:G:11:GLY:O	1:G:14:ALA:HB3	2.20	0.41
1:G:84:MLY:HH21	1:G:719:ASP:C	2.45	0.41
1:G:500:GLN:HB2	1:G:512:PHE:CZ	2.54	0.41
1:G:530:MET:CB	4:V:354:GLN:CB	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:725:ARG:HA	1:G:732:ILE:CG2	2.50	0.41
1:G:795:ARG:HB3	3:I:35:ARG:NH1	2.26	0.41
1:G:815:CYS:SG	2:H:92:ASP:CG	3.03	0.41
1:J:221:GLN:HG2	1:J:221:GLN:H	1.47	0.41
1:J:538:GLU:OE1	4:W:355:MET:HE1	2.17	0.41
1:J:541:MET:CG	4:W:345:ILE:C	2.87	0.41
1:J:553:MLY:HH12	4:Y:45:VAL:HG11	2.00	0.41
1:J:717:TYR:OH	1:J:760:PHE:HB3	2.21	0.41
1:J:732:ILE:HG23	1:J:747:LEU:HD13	1.37	0.41
1:J:795:ARG:HB2	3:L:35:ARG:HH11	1.70	0.41
1:J:842:LEU:N	1:J:842:LEU:CD1	2.83	0.41
1:M:226:ASN:HB2	1:M:227:PRO:CD	2.47	0.41
1:M:553:MLY:HH22	4:2:43:VAL:HG23	1.89	0.41
1:M:664:LEU:HD12	1:M:664:LEU:HA	1.52	0.41
2:N:140:PHE:CD2	2:N:144:VAL:HG11	2.55	0.41
1:P:330:GLU:HG2	1:P:330:GLU:H	1.54	0.41
1:P:612:GLN:NE2	1:P:627:GLY:H	2.15	0.41
1:P:803:TYR:CE2	3:R:17:PHE:HE2	2.35	0.41
1:P:817:GLN:CD	2:Q:128:PHE:CE1	2.98	0.41
4:2:193:LEU:HD11	4:2:250:ILE:HG13	2.02	0.41
4:6:226:GLU:HG3	4:6:255:PHE:CE2	2.56	0.41
4:8:221:LEU:HA	4:8:312:ARG:HG2	2.02	0.41
4:9:315:LYS:HD2	4:9:315:LYS:HA	1.92	0.41
4:9:324:THR:N	4:W:245:GLY:CA	2.69	0.41
4:9:369:ILE:HG23	4:9:370:VAL:N	2.35	0.41
4:W:193:LEU:HD11	4:W:250:ILE:HG13	2.02	0.41
4:Y:193:LEU:HD11	4:Y:250:ILE:HG13	2.02	0.41
1:A:551:MLY:C	4:V:47:MET:HA	2.48	0.41
1:A:741:LYS:HG2	1:A:742:LYS:N	2.35	0.41
1:D:81:ASN:CG	1:D:96:HIS:HB2	2.45	0.41
1:D:136:ASN:O	1:D:138:MLY:N	2.54	0.41
1:D:213:LYS:HA	1:D:220:ASP:OD2	2.19	0.41
1:D:330:GLU:OE1	1:D:330:GLU:HA	2.21	0.41
1:D:530:MET:CE	4:9:354:GLN:HG3	2.35	0.41
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.41
1:D:747:LEU:O	1:D:749:GLY:N	2.53	0.41
1:G:17:LEU:HA	1:G:17:LEU:HD12	1.67	0.41
1:G:42:HIS:C	1:G:42:HIS:ND1	2.78	0.41
1:G:62:VAL:HG12	1:G:63:MLY:N	2.34	0.41
1:G:93:MET:HG3	1:G:714:ARG:CB	2.49	0.41
1:G:132:LEU:C	1:G:134:VAL:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:151:ALA:HB1	1:G:152:PRO:HD2	2.01	0.41
1:G:568:PRO:CG	1:G:578:HIS:N	2.84	0.41
1:G:771:LEU:C	1:G:773:GLY:N	2.75	0.41
1:J:217:THR:CA	1:J:221:GLN:HE21	2.33	0.41
1:J:369:MLY:HH22	1:J:369:MLY:HD3	1.79	0.41
1:J:541:MET:HG2	4:W:345:ILE:HG23	2.02	0.41
1:J:673:ARG:HD2	1:J:673:ARG:HA	1.79	0.41
3:L:48:LYS:HD3	3:L:48:LYS:HA	1.17	0.41
1:M:25:ILE:HG23	1:M:29:ASN:HD22	1.85	0.41
1:M:63:MLY:HH23	1:M:63:MLY:HD3	1.76	0.41
1:M:195:TYR:CE2	1:M:199:ILE:HD13	2.55	0.41
1:M:409:GLY:HA3	4:Z:332:PRO:C	2.44	0.41
1:M:539:GLU:OE2	1:M:553:MLY:HD3	2.20	0.41
1:M:541:MET:CG	4:Z:345:ILE:C	2.87	0.41
1:M:568:PRO:CG	1:M:578:HIS:N	2.84	0.41
1:P:135:TYR:HD2	1:P:191:ARG:CG	2.33	0.41
1:P:445:ILE:HG22	1:P:449:LEU:HD22	2.02	0.41
1:P:502:GLU:C	1:P:504:MLY:N	2.78	0.41
1:P:539:GLU:OE2	1:P:553:MLY:HD3	2.20	0.41
1:P:792:ALA:CB	3:R:42:THR:N	2.84	0.41
1:P:842:LEU:N	1:P:842:LEU:CD1	2.83	0.41
3:R:11:LYS:HE2	3:R:11:LYS:HB3	1.83	0.41
4:3:206:ARG:O	4:3:209:VAL:HG12	2.20	0.41
4:7:369:ILE:HG23	4:7:370:VAL:N	2.35	0.41
4:9:290:ARG:HH22	4:W:202:THR:CG2	2.17	0.41
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.41
4:V:369:ILE:HG23	4:V:370:VAL:N	2.36	0.41
4:X:222:ASP:OD1	4:X:224:GLU:HB3	2.20	0.41
1:A:81:ASN:CG	1:A:96:HIS:HB2	2.45	0.41
1:A:135:TYR:HD2	1:A:191:ARG:CG	2.33	0.41
1:A:144:ARG:HH11	1:A:160:ASP:CG	2.28	0.41
1:A:166:MET:HE1	1:A:254:PHE:CB	2.46	0.41
1:A:568:PRO:CG	1:A:578:HIS:N	2.84	0.41
1:D:42:HIS:C	1:D:42:HIS:ND1	2.78	0.41
1:D:506:GLU:HG2	1:D:764:MLY:HE2	2.01	0.41
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.41
1:D:797:PHE:CD2	1:D:798:LEU:HD12	2.55	0.41
1:G:218:LEU:HA	1:G:221:GLN:HG3	1.72	0.41
1:G:322:VAL:HA	1:G:323:PRO:HD3	1.87	0.41
1:G:556:ASP:OD1	4:X:47:MET:CE	2.27	0.41
1:G:795:ARG:CG	3:I:118:MET:CE	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:801:VAL:CG2	3:I:126:LEU:HD21	2.50	0.41
1:J:28:GLN:OE1	1:J:723:ARG:HG3	2.20	0.41
1:J:410:ASN:HA	4:W:334:GLU:HB3	1.28	0.41
1:J:643:GLY:CA	4:W:24:ASP:OD1	2.62	0.41
1:J:741:LYS:HG2	1:J:742:LYS:N	2.35	0.41
1:J:797:PHE:CD2	1:J:798:LEU:HD12	2.55	0.41
1:J:800:ARG:HB3	3:L:149:VAL:HG13	2.02	0.41
2:K:113:LYS:O	2:K:147:ASN:HB2	2.20	0.41
1:M:445:ILE:HG22	1:M:449:LEU:HD22	2.02	0.41
1:M:530:MET:CE	4:Z:354:GLN:CB	2.96	0.41
1:M:636:LYS:CB	4:Z:334:GLU:OE1	2.68	0.41
1:M:767:PHE:CE1	1:M:771:LEU:HD22	2.34	0.41
1:M:767:PHE:CD2	1:M:772:LEU:HD11	2.55	0.41
1:P:471:ASP:CB	1:P:573:GLY:O	2.68	0.41
1:P:506:GLU:O	1:P:761:GLY:HA2	2.16	0.41
1:P:534:SER:CB	4:1:351:THR:HA	2.49	0.41
1:P:771:LEU:C	1:P:773:GLY:N	2.75	0.41
1:P:819:ASN:N	2:Q:90:GLY:O	2.53	0.41
4:3:196:ARG:HH21	4:3:249:THR:HG23	1.85	0.41
4:4:315:LYS:HD2	4:4:315:LYS:HA	1.92	0.41
4:6:193:LEU:HD11	4:6:250:ILE:HG13	2.03	0.41
4:7:226:GLU:HG3	4:7:255:PHE:CE2	2.55	0.41
4:7:324:THR:HG23	4:9:245:GLY:HA2	1.09	0.41
4:9:193:LEU:HD11	4:9:250:ILE:HG13	2.02	0.41
4:V:226:GLU:HG3	4:V:255:PHE:CE2	2.55	0.41
4:V:287:ILE:HG13	4:X:202:THR:HG23	1.65	0.41
4:Y:196:ARG:HH21	4:Y:249:THR:HG23	1.85	0.41
1:A:11:GLY:O	1:A:14:ALA:HB3	2.20	0.41
1:A:296:MLY:HH11	1:A:348:MLY:CH2	2.48	0.41
1:A:348:MLY:HH12	1:A:348:MLY:HD2	1.82	0.41
1:A:410:ASN:HA	4:8:334:GLU:HB3	1.29	0.41
1:A:725:ARG:CZ	1:A:733:PRO:CB	2.83	0.41
1:D:439:LEU:HA	1:D:439:LEU:HD12	1.85	0.41
2:E:141:PRO:HB3	2:E:142:PRO:CD	2.49	0.41
1:G:25:ILE:HG23	1:G:29:ASN:HD22	1.85	0.41
1:G:136:ASN:O	1:G:138:MLY:N	2.54	0.41
1:G:471:ASP:CB	1:G:573:GLY:O	2.68	0.41
1:G:519:LEU:HD12	1:G:519:LEU:H	1.84	0.41
1:G:537:GLU:OE1	4:V:350:SER:HA	2.20	0.41
1:G:690:LEU:O	1:G:694:GLN:HG3	2.20	0.41
1:G:708:ARG:HA	1:G:712:PRO:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:752:ASP:HB2	1:G:783:LEU:CB	2.51	0.41
3:I:56:GLU:OE1	3:I:59:ASN:ND2	2.54	0.41
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.41
1:J:578:HIS:CD2	1:J:592:ILE:H	2.38	0.41
1:J:793:ARG:O	1:J:797:PHE:N	2.39	0.41
2:K:140:PHE:HB3	2:K:144:VAL:HG11	2.03	0.41
1:M:38:VAL:HG13	1:M:39:PHE:N	2.35	0.41
1:M:330:GLU:HA	1:M:330:GLU:OE1	2.20	0.41
3:O:95:ASP:OD1	3:O:139:TYR:HE1	2.03	0.41
1:P:541:MET:CG	4:1:345:ILE:C	2.87	0.41
1:P:568:PRO:CG	1:P:578:HIS:N	2.84	0.41
1:P:776:GLU:O	1:P:780:ASP:N	2.45	0.41
4:1:247:VAL:N	4:Y:324:THR:CB	2.77	0.41
4:2:222:ASP:OD1	4:2:224:GLU:HB3	2.20	0.41
4:3:221:LEU:HA	4:3:312:ARG:HG2	2.03	0.41
4:4:148:THR:HG21	4:6:45:VAL:CG2	2.50	0.41
4:8:226:GLU:HG3	4:8:255:PHE:CE2	2.56	0.41
4:V:193:LEU:HD11	4:V:250:ILE:HG13	2.02	0.41
4:W:315:LYS:HD2	4:W:315:LYS:HA	1.92	0.41
4:X:221:LEU:HA	4:X:312:ARG:HG2	2.03	0.41
4:Z:193:LEU:HD11	4:Z:250:ILE:HG13	2.02	0.41
1:A:174:SER:HA	1:A:460:GLY:O	2.20	0.41
1:A:335:ASP:O	1:A:338:ILE:HB	2.20	0.41
1:A:471:ASP:CB	1:A:573:GLY:O	2.68	0.41
1:A:556:ASP:OD1	4:V:50:LYS:CG	2.69	0.41
1:A:711:PHE:O	1:A:714:ARG:NH2	2.54	0.41
1:A:797:PHE:CD2	1:A:798:LEU:HD12	2.55	0.41
1:D:60:VAL:O	1:D:72:VAL:N	2.51	0.41
1:D:462:LEU:HD11	1:D:464:ILE:CD1	2.50	0.41
1:D:538:GLU:OE1	4:9:355:MET:HE1	2.17	0.41
1:D:800:ARG:CB	3:F:149:VAL:HG13	2.48	0.41
1:D:812:SER:O	1:D:816:ILE:HG13	2.21	0.41
1:G:84:MLY:HG2	1:G:723:ARG:HD2	1.99	0.41
1:G:110:TYR:C	1:G:112:ALA:N	2.79	0.41
1:G:330:GLU:HA	1:G:330:GLU:OE1	2.20	0.41
1:G:537:GLU:C	4:V:350:SER:N	2.78	0.41
1:G:633:GLY:HA2	4:V:25:ASP:HA	1.26	0.41
1:G:712:PRO:HB2	1:G:713:SER:H	1.61	0.41
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.41
1:G:795:ARG:CZ	3:I:116:GLU:OE2	2.66	0.41
1:J:173:GLN:HG3	1:J:670:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:568:PRO:CG	1:J:578:HIS:N	2.84	0.41
1:J:657:LEU:HD12	1:J:657:LEU:O	2.21	0.41
1:M:11:GLY:O	1:M:14:ALA:HB3	2.20	0.41
1:M:95:THR:CB	1:M:770:GLY:HA2	2.49	0.41
1:M:136:ASN:O	1:M:138:MLY:N	2.54	0.41
1:M:471:ASP:CB	1:M:573:GLY:O	2.68	0.41
1:M:500:GLN:HB2	1:M:512:PHE:CZ	2.54	0.41
1:M:537:GLU:C	4:Z:350:SER:N	2.77	0.41
1:M:552:ASN:HD22	4:2:47:MET:CA	2.27	0.41
1:M:739:ASP:OD1	1:M:739:ASP:C	2.58	0.41
1:M:840:PRO:C	1:M:842:LEU:N	2.79	0.41
1:P:538:GLU:OE1	4:1:355:MET:HE1	2.17	0.41
1:P:744:SER:O	1:P:748:LEU:HD12	2.20	0.41
1:P:797:PHE:CE2	3:R:126:LEU:HD21	2.43	0.41
3:R:92:ARG:HA	3:R:139:TYR:HH	1.84	0.41
4:1:222:ASP:OD1	4:1:224:GLU:HB3	2.20	0.41
4:1:226:GLU:HG3	4:1:255:PHE:CE2	2.55	0.41
4:2:369:ILE:HG23	4:2:370:VAL:N	2.35	0.41
4:4:369:ILE:HG23	4:4:370:VAL:N	2.35	0.41
4:5:226:GLU:HG3	4:5:255:PHE:CE2	2.55	0.41
4:7:299:MET:HE2	4:7:299:MET:HB2	1.82	0.41
4:8:196:ARG:HH21	4:8:249:THR:HG23	1.85	0.41
4:W:226:GLU:HG3	4:W:255:PHE:CE2	2.55	0.41
4:X:226:GLU:HG3	4:X:255:PHE:CE2	2.56	0.41
1:A:201:ALA:O	1:A:202:SER:OG	2.36	0.41
1:A:508:ILE:HD13	1:A:508:ILE:HG21	1.88	0.41
1:A:636:LYS:C	1:A:637:LYS:HG3	2.44	0.41
1:A:775:LEU:HD12	1:A:775:LEU:HA	1.71	0.41
1:D:174:SER:HA	1:D:460:GLY:O	2.20	0.41
1:D:322:VAL:HA	1:D:323:PRO:HD3	1.87	0.41
1:D:449:LEU:HA	1:D:449:LEU:HD12	1.60	0.41
1:D:485:GLU:OE1	1:D:583:HIS:HB3	2.21	0.41
1:D:641:LYS:C	4:9:22:ALA:O	2.61	0.41
1:D:642:LYS:HB3	4:9:24:ASP:HB2	1.37	0.41
1:D:753:VAL:O	1:D:755:HIS:ND1	2.54	0.41
1:G:93:MET:CG	1:G:714:ARG:CB	2.96	0.41
1:G:553:MLY:C	4:X:46:GLY:HA3	2.50	0.41
1:G:783:LEU:C	1:G:787:ILE:HB	2.43	0.41
1:G:812:SER:O	1:G:816:ILE:HG13	2.21	0.41
1:J:356:GLY:HA2	1:J:359:MET:HG3	2.02	0.41
1:J:471:ASP:CB	1:J:573:GLY:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:485:GLU:OE1	1:J:583:HIS:HB3	2.21	0.41
1:J:796:GLY:HA2	3:L:35:ARG:CD	2.51	0.41
2:K:112:ILE:O	2:K:148:VAL:N	2.50	0.41
1:M:81:ASN:CG	1:M:96:HIS:HB2	2.45	0.41
1:M:204:GLU:N	1:M:207:LYS:HE3	2.23	0.41
1:M:279:LEU:CB	1:M:280:PRO:HD2	2.49	0.41
1:M:356:GLY:HA2	1:M:359:MET:HG3	2.02	0.41
1:M:718:ALA:C	1:M:720:PHE:N	2.79	0.41
1:P:60:VAL:O	1:P:72:VAL:N	2.51	0.41
1:P:193:ILE:CD1	1:P:250:ILE:HD13	2.51	0.41
1:P:335:ASP:O	1:P:338:ILE:HB	2.20	0.41
1:P:541:MET:HG2	4:1:345:ILE:HG23	2.02	0.41
1:P:712:PRO:HB2	1:P:713:SER:H	1.61	0.41
1:P:756:THR:HB	1:P:757:GLN:H	1.63	0.41
1:P:796:GLY:N	3:R:35:ARG:NH2	2.69	0.41
1:P:798:LEU:HD12	3:R:126:LEU:HD21	1.89	0.41
4:1:369:ILE:HG23	4:1:370:VAL:N	2.35	0.41
4:2:324:THR:H	4:4:244:ASP:HA	1.86	0.41
4:3:32:PRO:HB2	4:3:34:ILE:CD1	2.51	0.41
4:3:144:ALA:HB2	4:3:342:GLY:CA	2.51	0.41
4:6:47:MET:HB2	4:6:47:MET:HE2	1.79	0.41
4:6:144:ALA:HB2	4:6:342:GLY:CA	2.51	0.41
4:6:206:ARG:O	4:6:209:VAL:HG12	2.20	0.41
4:6:369:ILE:HG23	4:6:370:VAL:N	2.35	0.41
4:W:196:ARG:HH21	4:W:249:THR:HG23	1.85	0.41
4:X:193:LEU:HD11	4:X:250:ILE:HG13	2.02	0.41
4:X:324:THR:HG21	4:Z:247:VAL:HG23	1.89	0.41
1:A:17:LEU:HA	1:A:17:LEU:HD12	1.68	0.41
1:A:106:LEU:HD12	1:A:106:LEU:HA	1.79	0.41
1:A:195:TYR:CE2	1:A:199:ILE:HD13	2.55	0.41
1:A:217:THR:CA	1:A:221:GLN:HE21	2.33	0.41
1:A:322:VAL:HG12	1:A:325:ILE:HG13	2.03	0.41
1:D:25:ILE:HG23	1:D:29:ASN:HD22	1.85	0.41
1:D:217:THR:CA	1:D:221:GLN:HE21	2.33	0.41
1:D:553:MLY:NZ	4:W:45:VAL:CA	2.58	0.41
2:E:123:THR:HA	3:F:19:ARG:NH1	2.35	0.41
3:F:56:GLU:OE1	3:F:59:ASN:ND2	2.54	0.41
1:G:84:MLY:HB3	1:G:723:ARG:CD	2.50	0.41
1:G:462:LEU:HD11	1:G:464:ILE:CD1	2.50	0.41
1:G:502:GLU:C	1:G:504:MLY:N	2.77	0.41
1:G:795:ARG:NH2	3:I:116:GLU:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:95:ASP:OD1	3:I:139:TYR:HE1	2.04	0.41
1:J:633:GLY:HA2	4:W:25:ASP:HA	1.25	0.41
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.41
1:J:733:PRO:C	1:J:737:PHE:CE1	2.96	0.41
1:J:829:TRP:HH2	2:K:84:PHE:CE1	2.09	0.41
3:L:56:GLU:OE1	3:L:59:ASN:ND2	2.54	0.41
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.04	0.41
1:M:555:TYR:C	1:M:557:GLU:N	2.77	0.41
1:M:642:LYS:HE2	4:Z:344:SER:HA	1.57	0.41
1:M:812:SER:HB3	2:N:100:ALA:HB1	2.03	0.41
2:N:140:PHE:HB3	2:N:144:VAL:HG11	2.03	0.41
3:O:56:GLU:OE1	3:O:59:ASN:ND2	2.54	0.41
1:P:204:GLU:N	1:P:207:LYS:HE3	2.23	0.41
1:P:384:ASP:HA	1:P:394:SER:OG	2.21	0.41
1:P:462:LEU:HD11	1:P:464:ILE:CD1	2.50	0.41
1:P:543:PRO:CG	4:1:146:GLY:O	2.66	0.41
1:P:791:GLN:NE2	3:R:115:GLY:C	2.75	0.41
4:1:144:ALA:HB2	4:1:342:GLY:CA	2.51	0.41
4:4:227:MET:O	4:4:230:ALA:HB3	2.21	0.41
4:5:369:ILE:HG23	4:5:370:VAL:N	2.35	0.41
4:7:288:ASP:OD1	4:9:204:ALA:HA	2.21	0.41
4:8:287:ILE:N	4:V:202:THR:CG2	2.77	0.41
4:W:227:MET:O	4:W:230:ALA:HB3	2.21	0.41
1:A:25:ILE:HG23	1:A:29:ASN:HD22	1.85	0.41
1:A:240:ASN:OD1	1:A:241:ASP:N	2.52	0.41
1:A:309:PRO:C	1:A:311:ASP:N	2.79	0.41
1:A:320:ILE:O	1:A:320:ILE:HG22	2.18	0.41
1:A:398:LEU:HA	1:A:398:LEU:HD12	1.84	0.41
1:A:528:MLY:HB2	1:A:529:PRO:HD2	2.03	0.41
1:A:530:MET:CE	4:8:354:GLN:HG3	2.35	0.41
1:A:530:MET:CE	4:8:354:GLN:CB	2.96	0.41
1:A:610:LEU:N	1:A:610:LEU:CD1	2.84	0.41
1:A:633:GLY:HA2	4:8:25:ASP:HA	1.25	0.41
1:A:659:MLY:HH22	1:A:659:MLY:HD2	1.42	0.41
1:A:717:TYR:OH	1:A:760:PHE:HB3	2.21	0.41
1:A:840:PRO:C	1:A:842:LEU:N	2.79	0.41
1:D:11:GLY:O	1:D:14:ALA:HB3	2.20	0.41
1:D:14:ALA:HB3	1:D:15:PRO:CD	2.45	0.41
1:D:61:THR:HG23	1:D:71:THR:HG1	1.82	0.41
1:D:303:LEU:O	1:D:304:LEU:HB2	2.21	0.41
1:D:356:GLY:HA2	1:D:359:MET:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:410:ASN:HA	4:9:334:GLU:HB3	1.30	0.41
1:D:443:ILE:HG22	1:D:444:ARG:N	2.29	0.41
1:D:466:GLY:CA	1:D:484:ASN:HD21	2.32	0.41
1:D:471:ASP:CB	1:D:573:GLY:O	2.68	0.41
1:D:485:GLU:OE2	1:D:584:TYR:N	2.50	0.41
1:D:556:ASP:OD1	4:W:50:LYS:CG	2.69	0.41
1:D:819:ASN:ND2	2:E:90:GLY:O	2.54	0.41
1:D:840:PRO:C	1:D:842:LEU:N	2.79	0.41
1:G:81:ASN:CG	1:G:96:HIS:HB2	2.45	0.41
1:G:166:MET:HE1	1:G:254:PHE:CB	2.46	0.41
1:G:296:MLY:HH11	1:G:348:MLY:CH2	2.48	0.41
1:G:322:VAL:HG12	1:G:325:ILE:HG13	2.03	0.41
1:G:335:ASP:O	1:G:338:ILE:HB	2.20	0.41
1:G:718:ALA:C	1:G:720:PHE:N	2.79	0.41
1:G:829:TRP:O	1:G:832:MET:N	2.50	0.41
1:G:839:MLY:N	1:G:840:PRO:HD2	2.35	0.41
2:H:111:SER:OG	2:H:148:VAL:CA	2.69	0.41
2:H:139:ALA:O	2:H:141:PRO:CD	2.51	0.41
1:J:14:ALA:HB3	1:J:15:PRO:CD	2.46	0.41
1:J:136:ASN:O	1:J:138:MLY:N	2.54	0.41
1:J:174:SER:HA	1:J:460:GLY:O	2.20	0.41
1:J:195:TYR:CE2	1:J:199:ILE:HD13	2.55	0.41
1:J:210:GLN:C	1:J:211:SER:HG	2.20	0.41
1:J:436:MLY:HE3	1:J:626:TYR:HE1	1.77	0.41
1:J:692:LEU:HD23	1:J:692:LEU:HA	1.85	0.41
1:J:795:ARG:CG	3:L:35:ARG:NH1	2.67	0.41
1:J:813:ILE:CG2	2:K:128:PHE:HE1	2.32	0.41
1:J:829:TRP:CZ3	2:K:84:PHE:CG	3.07	0.41
1:M:193:ILE:HD11	1:M:250:ILE:HD12	2.03	0.41
1:M:193:ILE:CD1	1:M:250:ILE:HD13	2.51	0.41
1:M:322:VAL:HG12	1:M:325:ILE:HG13	2.03	0.41
1:M:330:GLU:HG2	1:M:330:GLU:H	1.54	0.41
1:M:335:ASP:O	1:M:338:ILE:HB	2.20	0.41
1:M:449:LEU:N	1:M:449:LEU:CD1	2.82	0.41
1:M:549:SER:O	4:2:48:GLY:CA	2.54	0.41
1:M:610:LEU:N	1:M:610:LEU:CD1	2.84	0.41
1:M:657:LEU:O	1:M:657:LEU:HD12	2.21	0.41
1:M:673:ARG:HD2	1:M:673:ARG:HA	1.79	0.41
1:M:744:SER:O	1:M:748:LEU:HD12	2.20	0.41
1:M:797:PHE:CE2	3:O:126:LEU:CG	2.86	0.41
1:P:81:ASN:CG	1:P:96:HIS:HB2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:174:SER:HA	1:P:460:GLY:O	2.20	0.41
1:P:356:GLY:HA2	1:P:359:MET:HG3	2.02	0.41
1:P:369:MLY:HH22	1:P:369:MLY:HD3	1.79	0.41
1:P:493:HIS:O	1:P:496:PHE:N	2.54	0.41
1:P:533:PHE:HD1	1:P:533:PHE:HA	1.79	0.41
1:P:635:GLY:C	4:1:341:ILE:HG21	2.45	0.41
1:P:725:ARG:NH1	3:R:85:GLU:CA	2.83	0.41
1:P:732:ILE:HG21	1:P:747:LEU:CD1	0.63	0.41
4:1:227:MET:O	4:1:230:ALA:HB3	2.21	0.41
4:2:32:PRO:HB2	4:2:34:ILE:CD1	2.51	0.41
4:2:196:ARG:HH21	4:2:249:THR:HG23	1.85	0.41
4:2:226:GLU:HG3	4:2:255:PHE:CE2	2.56	0.41
4:2:227:MET:O	4:2:230:ALA:HB3	2.21	0.41
4:4:32:PRO:HB2	4:4:34:ILE:CD1	2.51	0.41
4:4:288:ASP:CA	4:6:203:THR:CG2	2.99	0.41
4:6:196:ARG:HH21	4:6:249:THR:HG23	1.85	0.41
4:8:32:PRO:HB2	4:8:34:ILE:CD1	2.51	0.41
4:8:227:MET:O	4:8:230:ALA:HB3	2.21	0.41
4:9:288:ASP:OD1	4:W:204:ALA:HA	2.21	0.41
4:X:32:PRO:HB2	4:X:34:ILE:CD1	2.51	0.41
4:X:227:MET:O	4:X:230:ALA:HB3	2.21	0.41
4:Y:32:PRO:HB2	4:Y:34:ILE:CD1	2.51	0.41
4:Y:144:ALA:HB2	4:Y:342:GLY:CA	2.51	0.41
4:Y:221:LEU:HA	4:Y:312:ARG:HG2	2.02	0.41
4:Z:144:ALA:HB2	4:Z:342:GLY:CA	2.51	0.41
4:Z:196:ARG:HH21	4:Z:249:THR:HG23	1.85	0.41
4:Z:221:LEU:HA	4:Z:312:ARG:HG2	2.03	0.41
4:Z:226:GLU:HG3	4:Z:255:PHE:CE2	2.56	0.41
4:Z:369:ILE:HG23	4:Z:370:VAL:N	2.35	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.41
1:A:493:HIS:O	1:A:496:PHE:N	2.54	0.41
1:A:712:PRO:HB2	1:A:713:SER:H	1.61	0.41
1:D:110:TYR:C	1:D:112:ALA:N	2.79	0.41
1:D:110:TYR:O	1:D:113:TRP:N	2.42	0.41
1:D:135:TYR:HD2	1:D:191:ARG:CG	2.33	0.41
1:D:464:ILE:HG22	1:D:465:ALA:H	1.86	0.41
1:G:144:ARG:HH11	1:G:160:ASP:CG	2.29	0.41
1:G:464:ILE:HD13	1:G:464:ILE:HG21	1.69	0.41
1:G:635:GLY:C	4:V:341:ILE:HG21	2.45	0.41
1:G:636:LYS:CB	4:V:334:GLU:OE1	2.68	0.41
1:G:834:LEU:CD2	2:H:34:ILE:HD11	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:141:PRO:O	2:H:145:ALA:N	2.48	0.41
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.68	0.41
1:J:56:GLU:HB2	1:J:59:MLY:CB	2.30	0.41
1:J:193:ILE:HD11	1:J:250:ILE:HD12	2.03	0.41
1:J:279:LEU:CB	1:J:280:PRO:HD2	2.49	0.41
1:J:718:ALA:C	1:J:720:PHE:N	2.79	0.41
1:J:725:ARG:CZ	1:J:733:PRO:CB	2.83	0.41
1:M:144:ARG:HH11	1:M:160:ASP:CG	2.28	0.41
1:M:741:LYS:HG2	1:M:742:LYS:N	2.35	0.41
1:P:25:ILE:HG23	1:P:29:ASN:HD22	1.85	0.41
1:P:56:GLU:HB2	1:P:59:MLY:CB	2.30	0.41
1:P:629:GLU:CA	1:P:643:GLY:C	2.74	0.41
1:P:668:HIS:CD2	1:P:668:HIS:C	2.99	0.41
1:P:792:ALA:CA	3:R:42:THR:HA	2.51	0.41
3:R:95:ASP:OD1	3:R:139:TYR:HE1	2.04	0.41
4:1:167:GLU:OE1	4:3:43:VAL:N	2.54	0.41
4:1:219:VAL:HG22	4:1:258:PRO:CB	2.51	0.41
4:5:227:MET:O	4:5:230:ALA:HB3	2.21	0.41
4:7:144:ALA:HB2	4:7:342:GLY:CA	2.51	0.41
4:V:32:PRO:HB2	4:V:34:ILE:CD1	2.51	0.41
4:V:286:ASP:HA	4:X:202:THR:HG22	1.63	0.41
4:W:219:VAL:HG22	4:W:258:PRO:CB	2.51	0.41
4:W:256:ARG:HH11	4:W:256:ARG:HD2	1.78	0.41
4:X:144:ALA:HB2	4:X:342:GLY:CA	2.51	0.41
4:Z:32:PRO:HB2	4:Z:34:ILE:CD1	2.51	0.41
1:A:62:VAL:HG12	1:A:63:MLY:N	2.35	0.40
1:A:136:ASN:O	1:A:138:MLY:N	2.54	0.40
1:A:172:ASN:OD1	1:A:457:TYR:HA	2.21	0.40
1:A:237:THR:CG2	1:A:238:VAL:N	2.85	0.40
1:A:330:GLU:OE1	1:A:330:GLU:HA	2.20	0.40
1:A:464:ILE:HG21	1:A:464:ILE:HD13	1.69	0.40
1:A:641:LYS:C	4:8:22:ALA:O	2.61	0.40
1:A:718:ALA:C	1:A:720:PHE:N	2.79	0.40
1:A:733:PRO:CB	1:A:737:PHE:CE1	3.02	0.40
1:D:193:ILE:CD1	1:D:250:ILE:HD13	2.51	0.40
1:D:554:LEU:N	4:W:46:GLY:O	2.53	0.40
1:D:741:LYS:HG2	1:D:742:LYS:N	2.35	0.40
1:G:38:VAL:HG13	1:G:39:PHE:N	2.35	0.40
1:G:87:MLY:HD3	1:G:87:MLY:HH12	1.62	0.40
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.40
1:G:707:CYS:O	1:G:710:GLY:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:717:TYR:OH	1:G:760:PHE:HB3	2.21	0.40
1:G:732:ILE:CG2	1:G:747:LEU:HD12	0.35	0.40
1:G:733:PRO:C	1:G:737:PHE:CE1	2.97	0.40
1:J:72:VAL:O	1:J:73:LYS:O	2.39	0.40
1:J:135:TYR:HD2	1:J:191:ARG:CG	2.33	0.40
1:J:493:HIS:O	1:J:496:PHE:N	2.54	0.40
1:J:536:LEU:HA	1:J:536:LEU:HD12	1.69	0.40
1:J:543:PRO:CG	4:W:146:GLY:O	2.66	0.40
1:J:553:MLY:HH13	4:Y:45:VAL:HG11	2.02	0.40
1:J:580:SER:O	1:J:581:LEU:HD12	2.22	0.40
1:M:97:LEU:HD12	1:M:97:LEU:HA	1.68	0.40
1:M:110:TYR:O	1:M:113:TRP:N	2.42	0.40
1:M:309:PRO:C	1:M:311:ASP:N	2.79	0.40
1:M:556:ASP:N	4:2:49:GLN:HB3	2.35	0.40
1:P:136:ASN:O	1:P:138:MLY:N	2.54	0.40
1:P:193:ILE:HD11	1:P:250:ILE:HD12	2.03	0.40
1:P:485:GLU:OE1	1:P:583:HIS:HB3	2.21	0.40
1:P:528:MLY:HB2	1:P:529:PRO:HD2	2.03	0.40
1:P:739:ASP:OD1	1:P:739:ASP:C	2.58	0.40
1:P:804:ARG:HA	1:P:807:VAL:CA	2.47	0.40
1:P:809:ARG:CZ	2:Q:120:LEU:HD11	2.50	0.40
2:Q:137:TRP:CZ3	2:Q:145:ALA:N	2.81	0.40
4:2:171:LEU:HA	4:2:172:PRO:HD2	1.84	0.40
4:3:227:MET:O	4:3:230:ALA:HB3	2.21	0.40
4:3:322:PRO:HB2	4:5:244:ASP:CG	2.17	0.40
4:4:144:ALA:HB2	4:4:342:GLY:CA	2.51	0.40
4:5:32:PRO:HB2	4:5:34:ILE:CD1	2.51	0.40
4:5:221:LEU:HA	4:5:312:ARG:HG2	2.03	0.40
4:9:144:ALA:HB2	4:9:342:GLY:CA	2.51	0.40
4:9:221:LEU:HA	4:9:312:ARG:HG2	2.02	0.40
1:A:93:MET:HG2	1:A:715:VAL:HG23	1.93	0.40
1:A:135:TYR:CD2	1:A:191:ARG:HD3	2.56	0.40
1:A:166:MET:CE	1:A:254:PHE:HB2	2.46	0.40
1:A:407:GLY:HA2	1:A:411:GLU:O	2.22	0.40
1:A:657:LEU:HD12	1:A:657:LEU:O	2.21	0.40
1:D:72:VAL:O	1:D:73:LYS:O	2.40	0.40
1:D:193:ILE:HD11	1:D:250:ILE:HD12	2.03	0.40
1:D:502:GLU:C	1:D:504:MLY:N	2.77	0.40
1:D:507:GLY:CA	1:D:762:HIS:CD2	3.04	0.40
1:D:769:ALA:N	1:D:771:LEU:HA	2.19	0.40
3:F:49:ILE:HD13	3:F:49:ILE:HG21	1.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:310:TYR:OH	1:G:320:ILE:HD11	2.22	0.40
1:G:356:GLY:HA2	1:G:359:MET:HG3	2.02	0.40
1:G:408:VAL:HG22	1:G:636:LYS:HG2	1.51	0.40
1:G:553:MLY:HA	4:X:45:VAL:O	2.22	0.40
1:G:625:THR:H	1:G:625:THR:HG22	1.48	0.40
1:G:642:LYS:HE2	4:V:344:SER:HA	1.56	0.40
1:G:772:LEU:HA	1:G:772:LEU:HD12	1.82	0.40
1:J:110:TYR:C	1:J:112:ALA:N	2.79	0.40
1:J:322:VAL:HA	1:J:323:PRO:HD3	1.87	0.40
1:J:449:LEU:N	1:J:449:LEU:CD1	2.82	0.40
1:J:530:MET:CE	4:W:354:GLN:HG3	2.35	0.40
3:L:63:ILE:CG2	3:L:64:THR:H	2.33	0.40
1:M:60:VAL:O	1:M:72:VAL:N	2.51	0.40
1:M:172:ASN:OD1	1:M:457:TYR:HA	2.21	0.40
1:M:185:LYS:H	1:M:185:LYS:HG3	1.63	0.40
1:M:407:GLY:HA2	1:M:411:GLU:O	2.21	0.40
1:M:668:HIS:CD2	1:M:668:HIS:C	2.99	0.40
1:M:717:TYR:OH	1:M:760:PHE:HB3	2.21	0.40
1:P:132:LEU:C	1:P:134:VAL:H	2.28	0.40
1:P:279:LEU:CB	1:P:280:PRO:HD2	2.49	0.40
1:P:309:PRO:C	1:P:311:ASP:N	2.79	0.40
1:P:541:MET:HG2	4:1:345:ILE:HG22	2.00	0.40
1:P:642:LYS:HB3	4:1:24:ASP:HB2	1.37	0.40
1:P:735:GLY:HA3	1:P:743:ALA:HA	2.01	0.40
1:P:803:TYR:CB	1:P:807:VAL:HG21	2.52	0.40
4:2:144:ALA:HB2	4:2:342:GLY:CA	2.51	0.40
4:3:219:VAL:HG22	4:3:258:PRO:CB	2.51	0.40
4:4:221:LEU:HA	4:4:312:ARG:HG2	2.02	0.40
4:5:144:ALA:HB2	4:5:342:GLY:CA	2.51	0.40
4:8:288:ASP:OD1	4:V:204:ALA:HA	2.21	0.40
4:9:32:PRO:HB2	4:9:34:ILE:CD1	2.51	0.40
4:9:324:THR:HG23	4:W:245:GLY:HA2	1.09	0.40
1:A:60:VAL:O	1:A:72:VAL:N	2.51	0.40
1:A:812:SER:O	1:A:816:ILE:HG13	2.21	0.40
1:D:155:ILE:HG22	1:D:156:PHE:N	2.33	0.40
1:D:335:ASP:O	1:D:338:ILE:HB	2.21	0.40
1:D:384:ASP:HA	1:D:394:SER:OG	2.21	0.40
1:D:553:MLY:HE2	4:W:45:VAL:CA	2.39	0.40
1:D:718:ALA:C	1:D:720:PHE:N	2.79	0.40
1:D:735:GLY:HA3	1:D:743:ALA:HA	2.01	0.40
2:E:140:PHE:HB3	2:E:144:VAL:HG11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:141:PRO:CB	2:E:142:PRO:HD3	2.49	0.40
1:G:135:TYR:CD2	1:G:191:ARG:HD3	2.55	0.40
1:G:172:ASN:OD1	1:G:457:TYR:HA	2.21	0.40
1:G:214:MET:CA	1:G:340:ILE:HD11	2.45	0.40
1:G:361:TYR:C	1:G:363:ASN:N	2.79	0.40
1:G:384:ASP:HA	1:G:394:SER:OG	2.21	0.40
1:G:485:GLU:OE1	1:G:583:HIS:HB3	2.21	0.40
1:G:543:PRO:CG	4:V:146:GLY:O	2.66	0.40
1:G:754:ASP:HA	1:G:779:ARG:CZ	2.43	0.40
1:G:797:PHE:CE2	3:I:126:LEU:CG	2.85	0.40
2:H:150:TYR:HB3	2:H:151:LYS:HG3	2.03	0.40
1:J:407:GLY:HA2	1:J:411:GLU:O	2.21	0.40
1:M:303:LEU:O	1:M:304:LEU:HB2	2.21	0.40
1:M:384:ASP:HA	1:M:394:SER:OG	2.21	0.40
1:M:829:TRP:CD2	2:N:87:LYS:NZ	2.87	0.40
1:P:303:LEU:O	1:P:304:LEU:HB2	2.21	0.40
1:P:305:ILE:HG22	1:P:312:TYR:OH	2.22	0.40
1:P:706:ILE:HD13	1:P:706:ILE:HG21	1.89	0.40
1:P:797:PHE:CD2	1:P:798:LEU:HD12	2.56	0.40
2:Q:141:PRO:O	2:Q:145:ALA:N	2.48	0.40
4:1:201:VAL:CG2	4:Y:287:ILE:HG23	2.46	0.40
4:1:250:ILE:HG22	4:1:254:ARG:HB2	2.04	0.40
4:2:148:THR:OG1	4:4:45:VAL:HG23	2.21	0.40
4:2:250:ILE:HG22	4:2:254:ARG:HB2	2.04	0.40
4:3:226:GLU:HG3	4:3:255:PHE:CE2	2.55	0.40
4:4:219:VAL:HG22	4:4:258:PRO:CB	2.51	0.40
4:4:226:GLU:HG3	4:4:255:PHE:CE2	2.55	0.40
4:6:227:MET:O	4:6:230:ALA:HB3	2.21	0.40
4:7:32:PRO:HB2	4:7:34:ILE:CD1	2.51	0.40
4:7:221:LEU:HA	4:7:312:ARG:HG2	2.02	0.40
4:7:227:MET:O	4:7:230:ALA:HB3	2.21	0.40
4:9:219:VAL:HG22	4:9:258:PRO:CB	2.52	0.40
4:V:144:ALA:HB2	4:V:342:GLY:CA	2.51	0.40
4:W:32:PRO:HB2	4:W:34:ILE:CD1	2.51	0.40
4:W:144:ALA:HB2	4:W:342:GLY:CA	2.51	0.40
4:W:221:LEU:HA	4:W:312:ARG:HG2	2.03	0.40
4:Y:219:VAL:HG22	4:Y:258:PRO:CB	2.52	0.40
1:A:94:MET:HE1	1:A:101:ALA:CB	2.50	0.40
1:A:279:LEU:CB	1:A:280:PRO:HD2	2.49	0.40
1:A:361:TYR:C	1:A:363:ASN:N	2.79	0.40
1:A:732:ILE:HG23	1:A:747:LEU:HD13	1.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:739:ASP:OD1	1:A:739:ASP:C	2.58	0.40
1:D:87:MLY:HD3	1:D:87:MLY:HH12	1.61	0.40
1:D:407:GLY:HA2	1:D:411:GLU:O	2.21	0.40
1:D:507:GLY:CA	1:D:762:HIS:ND1	2.85	0.40
1:D:555:TYR:C	1:D:557:GLU:N	2.77	0.40
1:G:48:VAL:CG2	1:G:49:MLY:N	2.85	0.40
1:G:568:PRO:HG3	1:G:578:HIS:N	2.36	0.40
1:G:840:PRO:C	1:G:842:LEU:N	2.79	0.40
1:J:94:MET:HE1	1:J:101:ALA:CB	2.51	0.40
1:J:335:ASP:O	1:J:338:ILE:HB	2.21	0.40
1:J:384:ASP:HA	1:J:394:SER:OG	2.21	0.40
1:J:502:GLU:C	1:J:504:MLY:N	2.78	0.40
1:M:135:TYR:CD2	1:M:191:ARG:HD3	2.55	0.40
1:M:485:GLU:OE1	1:M:583:HIS:HB3	2.21	0.40
1:M:612:GLN:NE2	1:M:627:GLY:H	2.14	0.40
1:M:804:ARG:CA	1:M:807:VAL:CG1	2.95	0.40
1:P:217:THR:CA	1:P:221:GLN:HE21	2.33	0.40
1:P:449:LEU:N	1:P:449:LEU:CD1	2.82	0.40
1:P:538:GLU:CA	4:1:351:THR:N	2.68	0.40
1:P:555:TYR:C	1:P:557:GLU:N	2.77	0.40
4:5:250:ILE:HG22	4:5:254:ARG:HB2	2.04	0.40
4:9:227:MET:O	4:9:230:ALA:HB3	2.21	0.40
4:V:120:THR:HG21	4:V:370:VAL:CG1	2.52	0.40
4:W:286:ASP:HA	4:Y:202:THR:HG22	1.32	0.40
4:X:120:THR:HG21	4:X:370:VAL:CG1	2.52	0.40
1:A:110:TYR:C	1:A:112:ALA:N	2.79	0.40
1:A:129:TYR:HD1	1:A:129:TYR:HA	1.65	0.40
1:A:274:ARG:HH22	1:A:282:GLU:CD	2.27	0.40
1:A:485:GLU:OE1	1:A:583:HIS:HB3	2.21	0.40
1:A:508:ILE:HD13	1:A:759:ALA:HB2	1.80	0.40
1:A:648:THR:HB	4:8:350:SER:OG	2.22	0.40
1:D:322:VAL:HB	1:D:325:ILE:CG1	2.51	0.40
1:D:798:LEU:HD12	3:F:126:LEU:HD21	1.47	0.40
1:G:47:PHE:HE1	1:G:78:PHE:CE1	2.40	0.40
1:G:64:THR:OG1	1:G:68:GLU:HB3	2.22	0.40
1:G:303:LEU:O	1:G:304:LEU:HB2	2.21	0.40
1:G:309:PRO:C	1:G:311:ASP:N	2.79	0.40
1:G:407:GLY:HA2	1:G:411:GLU:O	2.21	0.40
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	0.40
1:G:657:LEU:O	1:G:657:LEU:HD12	2.21	0.40
2:H:63:GLU:O	2:H:67:MET:HG3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:193:ILE:HD13	1:J:252:ILE:HD11	2.04	0.40
1:J:311:ASP:C	1:J:312:TYR:CD1	3.00	0.40
1:J:330:GLU:OE1	1:J:330:GLU:HA	2.21	0.40
1:J:840:PRO:C	1:J:842:LEU:H	2.30	0.40
1:M:224:SER:C	1:M:227:PRO:HD2	2.47	0.40
1:M:289:TYR:OH	1:M:315:VAL:O	2.27	0.40
1:M:361:TYR:C	1:M:363:ASN:N	2.79	0.40
1:M:580:SER:O	1:M:581:LEU:HD12	2.22	0.40
1:M:737:PHE:HE2	3:O:93:VAL:HG13	1.87	0.40
1:P:72:VAL:O	1:P:73:LYS:O	2.39	0.40
1:P:110:TYR:C	1:P:112:ALA:N	2.79	0.40
1:P:274:ARG:HH22	1:P:282:GLU:CD	2.27	0.40
1:P:311:ASP:C	1:P:312:TYR:CD1	3.00	0.40
1:P:322:VAL:HB	1:P:325:ILE:CG1	2.52	0.40
1:P:610:LEU:N	1:P:610:LEU:CD1	2.84	0.40
1:P:717:TYR:OH	1:P:760:PHE:HB3	2.21	0.40
1:P:817:GLN:CG	2:Q:128:PHE:CE1	3.02	0.40
3:R:56:GLU:OE1	3:R:59:ASN:ND2	2.54	0.40
4:2:221:LEU:HA	4:2:312:ARG:HG2	2.02	0.40
4:3:120:THR:HG21	4:3:370:VAL:CG1	2.52	0.40
4:4:287:ILE:HG13	4:6:202:THR:HG22	2.04	0.40
4:9:250:ILE:HG22	4:9:254:ARG:HB2	2.04	0.40
4:V:250:ILE:HG22	4:V:254:ARG:HB2	2.04	0.40
4:X:196:ARG:HH21	4:X:249:THR:HG23	1.85	0.40
4:Z:219:VAL:HG22	4:Z:258:PRO:CB	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	789/840 (94%)	650 (82%)	113 (14%)	26 (3%)	3 21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	789/840 (94%)	650 (82%)	113 (14%)	26 (3%)	3	21
1	G	791/840 (94%)	651 (82%)	113 (14%)	27 (3%)	3	21
1	J	791/840 (94%)	651 (82%)	113 (14%)	27 (3%)	3	21
1	M	787/840 (94%)	648 (82%)	110 (14%)	29 (4%)	2	20
1	P	789/840 (94%)	650 (82%)	112 (14%)	27 (3%)	3	21
2	E	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	H	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	K	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	N	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
2	Q	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
3	F	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	I	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	L	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	O	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
3	R	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
4	1	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	2	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	3	370/375 (99%)	333 (90%)	31 (8%)	6 (2%)	7	38
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	5	370/375 (99%)	333 (90%)	31 (8%)	6 (2%)	7	38
4	6	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	7	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	8	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	9	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	V	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	W	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	X	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	Y	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	Z	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
All	All	11346/11750 (97%)	9872 (87%)	1188 (10%)	286 (2%)	6	26

All (286) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	73	LYS
1	A	202	SER
1	A	572	LYS
1	A	712	PRO
1	A	729	ALA
1	A	757	GLN
1	A	762	HIS
1	D	73	LYS
1	D	202	SER
1	D	572	LYS
1	D	712	PRO
1	D	729	ALA
1	D	757	GLN
1	D	762	HIS
2	E	131	GLU
2	E	141	PRO
1	G	73	LYS
1	G	202	SER
1	G	572	LYS
1	G	712	PRO
1	G	729	ALA
1	G	757	GLN
1	G	762	HIS
2	H	131	GLU
2	H	141	PRO
1	J	73	LYS
1	J	202	SER
1	J	572	LYS
1	J	712	PRO
1	J	729	ALA
1	J	757	GLN
1	J	762	HIS
1	J	785	GLU
2	K	131	GLU
2	K	141	PRO
1	M	73	LYS
1	M	202	SER
1	M	572	LYS
1	M	712	PRO
1	M	729	ALA
1	M	757	GLN
1	M	762	HIS
1	M	806	MET

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Mol	Chain	Res	Type
1	M	807	VAL
2	N	131	GLU
2	N	141	PRO
1	P	73	LYS
1	P	202	SER
1	P	572	LYS
1	P	712	PRO
1	P	729	ALA
1	P	757	GLN
1	P	762	HIS
1	P	807	VAL
2	Q	131	GLU
2	Q	141	PRO
4	1	246	GLN
4	2	246	GLN
4	3	246	GLN
4	4	246	GLN
4	5	246	GLN
4	6	246	GLN
4	7	246	GLN
4	8	246	GLN
4	9	246	GLN
4	V	246	GLN
4	W	246	GLN
4	X	246	GLN
4	Y	246	GLN
4	Z	246	GLN
1	A	11	GLY
1	A	21	GLU
1	A	219	GLU
1	A	517	MET
1	A	532	ILE
1	A	637	LYS
1	D	11	GLY
1	D	21	GLU
1	D	219	GLU
1	D	517	MET
1	D	637	LYS
2	E	130	PRO
2	E	147	ASN
2	E	151	LYS
1	G	11	GLY

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Mol	Chain	Res	Type
1	G	21	GLU
1	G	219	GLU
1	G	517	MET
1	G	532	ILE
1	G	637	LYS
1	G	785	GLU
2	H	130	PRO
2	H	147	ASN
2	H	151	LYS
1	J	11	GLY
1	J	21	GLU
1	J	219	GLU
1	J	517	MET
1	J	637	LYS
2	K	130	PRO
2	K	147	ASN
2	K	151	LYS
1	M	11	GLY
1	M	21	GLU
1	M	219	GLU
1	M	517	MET
1	M	637	LYS
2	N	130	PRO
2	N	147	ASN
2	N	151	LYS
2	N	161	GLU
1	P	11	GLY
1	P	21	GLU
1	P	219	GLU
1	P	517	MET
1	P	637	LYS
2	Q	130	PRO
2	Q	147	ASN
2	Q	151	LYS
4	1	274	ILE
4	2	274	ILE
4	3	274	ILE
4	4	274	ILE
4	5	274	ILE
4	6	274	ILE
4	7	274	ILE
4	8	274	ILE

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Mol	Chain	Res	Type
4	9	274	ILE
4	V	274	ILE
4	W	274	ILE
4	X	274	ILE
4	Y	274	ILE
4	Z	274	ILE
1	A	58	GLY
1	A	294	ASN
1	A	644	SER
1	D	58	GLY
1	D	294	ASN
1	D	532	ILE
1	D	644	SER
2	E	161	GLU
1	G	58	GLY
1	G	294	ASN
1	G	644	SER
2	H	161	GLU
1	J	58	GLY
1	J	294	ASN
1	J	532	ILE
1	J	644	SER
2	K	161	GLU
1	M	58	GLY
1	M	294	ASN
1	M	532	ILE
1	M	644	SER
1	P	58	GLY
1	P	294	ASN
1	P	532	ILE
1	P	644	SER
2	Q	161	GLU
4	1	233	SER
4	2	233	SER
4	3	233	SER
4	4	233	SER
4	5	233	SER
4	6	233	SER
4	7	233	SER
4	8	233	SER
4	9	233	SER
4	V	233	SER

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Mol	Chain	Res	Type
4	W	233	SER
4	X	233	SER
4	Y	233	SER
4	Z	233	SER
1	A	435	GLU
1	A	817	GLN
1	D	269	LEU
1	D	435	GLU
1	D	817	GLN
1	G	269	LEU
1	G	435	GLU
1	G	817	GLN
1	J	435	GLU
1	J	817	GLN
1	M	269	LEU
1	M	435	GLU
1	M	817	GLN
1	P	435	GLU
1	P	817	GLN
4	1	2	GLU
4	1	253	GLU
4	2	2	GLU
4	3	2	GLU
4	4	2	GLU
4	5	2	GLU
4	6	2	GLU
4	6	253	GLU
4	7	2	GLU
4	7	253	GLU
4	8	2	GLU
4	8	253	GLU
4	9	2	GLU
4	9	253	GLU
4	V	2	GLU
4	W	2	GLU
4	W	253	GLU
4	X	2	GLU
4	Y	2	GLU
4	Z	2	GLU
4	Z	253	GLU
1	A	8	ALA
1	A	79	SER

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Mol	Chain	Res	Type
1	A	269	LEU
1	A	578	HIS
1	D	8	ALA
1	D	556	ASP
1	D	578	HIS
2	E	140	PHE
1	G	8	ALA
1	G	79	SER
1	G	578	HIS
2	H	140	PHE
1	J	8	ALA
1	J	269	LEU
1	J	578	HIS
2	K	140	PHE
1	M	8	ALA
1	M	578	HIS
1	P	8	ALA
1	P	79	SER
1	P	269	LEU
1	P	556	ASP
1	P	578	HIS
2	Q	140	PHE
4	2	253	GLU
4	3	253	GLU
4	4	253	GLU
4	5	253	GLU
4	V	253	GLU
4	X	253	GLU
4	Y	253	GLU
1	A	556	ASP
1	D	79	SER
1	D	199	ILE
2	E	142	PRO
1	G	199	ILE
1	G	556	ASP
2	H	142	PRO
1	J	79	SER
1	J	199	ILE
1	J	556	ASP
2	K	142	PRO
1	M	79	SER
1	M	199	ILE

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Mol	Chain	Res	Type
1	M	556	ASP
1	M	822	SER
2	N	140	PHE
2	N	142	PRO
1	P	199	ILE
2	Q	142	PRO
1	A	199	ILE
1	A	840	PRO
1	D	287	ILE
1	D	840	PRO
1	G	840	PRO
1	J	287	ILE
1	J	840	PRO
1	M	840	PRO
1	P	287	ILE
1	P	840	PRO
4	1	242	LEU
4	2	242	LEU
4	3	242	LEU
4	4	242	LEU
4	5	242	LEU
4	6	242	LEU
4	7	242	LEU
4	8	242	LEU
4	9	242	LEU
4	V	242	LEU
4	W	242	LEU
4	X	242	LEU
4	Y	242	LEU
4	Z	242	LEU
1	A	287	ILE
1	G	287	ILE
1	M	287	ILE

5.3.2 Protein sidechains

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	672/672 (100%)	491 (73%)	181 (27%)	0 3
1	D	672/672 (100%)	491 (73%)	181 (27%)	0 3
1	G	672/672 (100%)	492 (73%)	180 (27%)	0 3
1	J	672/672 (100%)	490 (73%)	182 (27%)	0 3
1	M	672/672 (100%)	491 (73%)	181 (27%)	0 3
1	P	672/672 (100%)	491 (73%)	181 (27%)	0 3
2	E	120/120 (100%)	119 (99%)	1 (1%)	73 80
2	H	120/120 (100%)	119 (99%)	1 (1%)	73 80
2	K	120/120 (100%)	119 (99%)	1 (1%)	73 80
2	N	120/120 (100%)	120 (100%)	0	100 100
2	Q	120/120 (100%)	120 (100%)	0	100 100
3	F	117/117 (100%)	113 (97%)	4 (3%)	32 54
3	I	117/117 (100%)	113 (97%)	4 (3%)	32 54
3	L	117/117 (100%)	113 (97%)	4 (3%)	32 54
3	O	117/117 (100%)	113 (97%)	4 (3%)	32 54
3	R	117/117 (100%)	113 (97%)	4 (3%)	32 54
4	1	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	2	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	3	315/318 (99%)	265 (84%)	50 (16%)	2 11
4	4	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	5	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	6	315/318 (99%)	265 (84%)	50 (16%)	2 11
4	7	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	8	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	9	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	V	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	W	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	X	315/318 (99%)	265 (84%)	50 (16%)	2 11
4	Y	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	Z	315/318 (99%)	264 (84%)	51 (16%)	2 11
All	All	9627/9669 (100%)	7807 (81%)	1820 (19%)	3 8

All (1820) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	MET
1	A	12	GLU
1	A	17	LEU
1	A	20	SER
1	A	22	LYS
1	A	23	GLU
1	A	25	ILE
1	A	36	SER
1	A	37	SER
1	A	38	VAL
1	A	40	VAL
1	A	41	VAL
1	A	46	SER
1	A	52	ILE
1	A	61	THR
1	A	65	GLU
1	A	69	THR
1	A	70	LEU
1	A	72	VAL
1	A	73	LYS
1	A	75	ASP
1	A	76	GLN
1	A	88	ILE
1	A	97	LEU
1	A	106	LEU
1	A	109	ARG
1	A	114	MET
1	A	117	THR
1	A	121	LEU
1	A	125	THR
1	A	126	VAL
1	A	127	ASN
1	A	136	ASN
1	A	146	LYS
1	A	149	GLN
1	A	155	ILE
1	A	157	SER
1	A	158	ILE
1	A	159	SER
1	A	166	MET
1	A	167	LEU
1	A	169	ASP
1	A	170	ARG

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Mol	Chain	Res	Type
1	A	173	GLN
1	A	175	ILE
1	A	178	THR
1	A	180	GLU
1	A	185	LYS
1	A	186	THR
1	A	187	VAL
1	A	189	THR
1	A	191	ARG
1	A	193	ILE
1	A	194	GLN
1	A	198	THR
1	A	199	ILE
1	A	218	LEU
1	A	219	GLU
1	A	221	GLN
1	A	223	ILE
1	A	229	LEU
1	A	244	SER
1	A	245	ARG
1	A	251	ARG
1	A	273	SER
1	A	274	ARG
1	A	278	GLN
1	A	282	GLU
1	A	287	ILE
1	A	290	GLN
1	A	291	ILE
1	A	294	ASN
1	A	298	GLU
1	A	300	ILE
1	A	302	MET
1	A	303	LEU
1	A	305	ILE
1	A	315	VAL
1	A	325	ILE
1	A	331	LEU
1	A	332	MET
1	A	336	SER
1	A	351	ILE
1	A	354	LEU
1	A	359	MET

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Mol	Chain	Res	Type
1	A	364	LEU
1	A	365	LYS
1	A	372	GLU
1	A	376	GLU
1	A	381	GLU
1	A	389	LEU
1	A	392	LEU
1	A	394	SER
1	A	399	LYS
1	A	401	LEU
1	A	405	ARG
1	A	410	ASN
1	A	411	GLU
1	A	439	LEU
1	A	448	GLN
1	A	449	LEU
1	A	452	LYS
1	A	453	GLN
1	A	455	ARG
1	A	456	GLN
1	A	457	TYR
1	A	462	LEU
1	A	471	ASP
1	A	480	ILE
1	A	487	LEU
1	A	495	MET
1	A	498	LEU
1	A	506	GLU
1	A	513	ILE
1	A	524	GLU
1	A	530	MET
1	A	532	ILE
1	A	534	SER
1	A	537	GLU
1	A	549	SER
1	A	561	LYS
1	A	562	SER
1	A	569	LYS
1	A	580	SER
1	A	593	SER
1	A	596	LEU
1	A	597	GLU

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Mol	Chain	Res	Type
1	A	604	ASN
1	A	608	ILE
1	A	610	LEU
1	A	615	SER
1	A	621	LEU
1	A	625	THR
1	A	664	LEU
1	A	666	SER
1	A	673	ARG
1	A	675	ILE
1	A	676	ILE
1	A	686	MET
1	A	689	GLU
1	A	690	LEU
1	A	693	HIS
1	A	698	ASN
1	A	700	VAL
1	A	701	LEU
1	A	702	GLU
1	A	704	ILE
1	A	705	ARG
1	A	707	CYS
1	A	708	ARG
1	A	713	SER
1	A	714	ARG
1	A	716	LEU
1	A	722	GLN
1	A	723	ARG
1	A	727	LEU
1	A	728	ASN
1	A	744	SER
1	A	745	GLU
1	A	748	LEU
1	A	752	ASP
1	A	753	VAL
1	A	754	ASP
1	A	762	HIS
1	A	772	LEU
1	A	774	LEU
1	A	785	GLU
1	A	787	ILE
1	A	793	ARG

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Mol	Chain	Res	Type
1	A	798	LEU
1	A	799	MET
1	A	802	GLU
1	A	810	ARG
1	A	816	ILE
1	A	819	ASN
1	A	822	SER
1	A	832	MET
1	A	834	LEU
1	A	838	ILE
1	A	842	LEU
1	A	843	LYS
1	D	7	MET
1	D	12	GLU
1	D	17	LEU
1	D	20	SER
1	D	22	LYS
1	D	23	GLU
1	D	25	ILE
1	D	36	SER
1	D	37	SER
1	D	38	VAL
1	D	40	VAL
1	D	41	VAL
1	D	46	SER
1	D	52	ILE
1	D	61	THR
1	D	65	GLU
1	D	69	THR
1	D	70	LEU
1	D	72	VAL
1	D	73	LYS
1	D	75	ASP
1	D	76	GLN
1	D	88	ILE
1	D	97	LEU
1	D	106	LEU
1	D	109	ARG
1	D	114	MET
1	D	117	THR
1	D	121	LEU
1	D	125	THR

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Mol	Chain	Res	Type
1	D	126	VAL
1	D	127	ASN
1	D	136	ASN
1	D	146	LYS
1	D	149	GLN
1	D	155	ILE
1	D	157	SER
1	D	158	ILE
1	D	159	SER
1	D	166	MET
1	D	167	LEU
1	D	169	ASP
1	D	170	ARG
1	D	173	GLN
1	D	175	ILE
1	D	178	THR
1	D	180	GLU
1	D	185	LYS
1	D	186	THR
1	D	187	VAL
1	D	189	THR
1	D	191	ARG
1	D	193	ILE
1	D	194	GLN
1	D	198	THR
1	D	199	ILE
1	D	218	LEU
1	D	219	GLU
1	D	221	GLN
1	D	223	ILE
1	D	229	LEU
1	D	244	SER
1	D	245	ARG
1	D	251	ARG
1	D	273	SER
1	D	274	ARG
1	D	278	GLN
1	D	282	GLU
1	D	287	ILE
1	D	290	GLN
1	D	291	ILE
1	D	294	ASN

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Mol	Chain	Res	Type
1	D	298	GLU
1	D	300	ILE
1	D	302	MET
1	D	303	LEU
1	D	305	ILE
1	D	315	VAL
1	D	325	ILE
1	D	331	LEU
1	D	332	MET
1	D	336	SER
1	D	351	ILE
1	D	354	LEU
1	D	359	MET
1	D	364	LEU
1	D	365	LYS
1	D	372	GLU
1	D	376	GLU
1	D	381	GLU
1	D	389	LEU
1	D	392	LEU
1	D	394	SER
1	D	399	LYS
1	D	401	LEU
1	D	405	ARG
1	D	410	ASN
1	D	411	GLU
1	D	439	LEU
1	D	448	GLN
1	D	449	LEU
1	D	452	LYS
1	D	453	GLN
1	D	455	ARG
1	D	456	GLN
1	D	457	TYR
1	D	462	LEU
1	D	471	ASP
1	D	480	ILE
1	D	487	LEU
1	D	495	MET
1	D	498	LEU
1	D	506	GLU
1	D	513	ILE

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Mol	Chain	Res	Type
1	D	524	GLU
1	D	530	MET
1	D	532	ILE
1	D	534	SER
1	D	537	GLU
1	D	549	SER
1	D	561	LYS
1	D	562	SER
1	D	569	LYS
1	D	580	SER
1	D	593	SER
1	D	596	LEU
1	D	597	GLU
1	D	604	ASN
1	D	608	ILE
1	D	610	LEU
1	D	615	SER
1	D	621	LEU
1	D	625	THR
1	D	664	LEU
1	D	666	SER
1	D	673	ARG
1	D	675	ILE
1	D	676	ILE
1	D	686	MET
1	D	689	GLU
1	D	690	LEU
1	D	693	HIS
1	D	698	ASN
1	D	700	VAL
1	D	701	LEU
1	D	702	GLU
1	D	704	ILE
1	D	705	ARG
1	D	707	CYS
1	D	708	ARG
1	D	713	SER
1	D	714	ARG
1	D	716	LEU
1	D	722	GLN
1	D	723	ARG
1	D	727	LEU

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Mol	Chain	Res	Type
1	D	728	ASN
1	D	744	SER
1	D	745	GLU
1	D	748	LEU
1	D	752	ASP
1	D	753	VAL
1	D	754	ASP
1	D	762	HIS
1	D	772	LEU
1	D	774	LEU
1	D	785	GLU
1	D	787	ILE
1	D	793	ARG
1	D	798	LEU
1	D	799	MET
1	D	802	GLU
1	D	810	ARG
1	D	816	ILE
1	D	819	ASN
1	D	822	SER
1	D	832	MET
1	D	834	LEU
1	D	838	ILE
1	D	842	LEU
1	D	843	LYS
2	E	129	THR
3	F	48	LYS
3	F	83	THR
3	F	85	GLU
3	F	96	LYS
1	G	7	MET
1	G	12	GLU
1	G	17	LEU
1	G	20	SER
1	G	22	LYS
1	G	23	GLU
1	G	25	ILE
1	G	36	SER
1	G	37	SER
1	G	38	VAL
1	G	40	VAL
1	G	41	VAL

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Mol	Chain	Res	Type
1	G	46	SER
1	G	52	ILE
1	G	61	THR
1	G	65	GLU
1	G	69	THR
1	G	70	LEU
1	G	72	VAL
1	G	73	LYS
1	G	75	ASP
1	G	76	GLN
1	G	88	ILE
1	G	97	LEU
1	G	106	LEU
1	G	109	ARG
1	G	114	MET
1	G	117	THR
1	G	121	LEU
1	G	125	THR
1	G	126	VAL
1	G	127	ASN
1	G	136	ASN
1	G	146	LYS
1	G	149	GLN
1	G	155	ILE
1	G	157	SER
1	G	158	ILE
1	G	159	SER
1	G	166	MET
1	G	167	LEU
1	G	169	ASP
1	G	170	ARG
1	G	173	GLN
1	G	175	ILE
1	G	178	THR
1	G	180	GLU
1	G	185	LYS
1	G	186	THR
1	G	187	VAL
1	G	189	THR
1	G	191	ARG
1	G	193	ILE
1	G	194	GLN

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Mol	Chain	Res	Type
1	G	198	THR
1	G	199	ILE
1	G	218	LEU
1	G	219	GLU
1	G	221	GLN
1	G	223	ILE
1	G	229	LEU
1	G	244	SER
1	G	245	ARG
1	G	251	ARG
1	G	273	SER
1	G	274	ARG
1	G	278	GLN
1	G	282	GLU
1	G	287	ILE
1	G	290	GLN
1	G	291	ILE
1	G	294	ASN
1	G	298	GLU
1	G	300	ILE
1	G	302	MET
1	G	303	LEU
1	G	305	ILE
1	G	315	VAL
1	G	325	ILE
1	G	331	LEU
1	G	332	MET
1	G	336	SER
1	G	351	ILE
1	G	354	LEU
1	G	359	MET
1	G	364	LEU
1	G	365	LYS
1	G	372	GLU
1	G	376	GLU
1	G	381	GLU
1	G	389	LEU
1	G	392	LEU
1	G	394	SER
1	G	399	LYS
1	G	401	LEU
1	G	405	ARG

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Mol	Chain	Res	Type
1	G	410	ASN
1	G	411	GLU
1	G	439	LEU
1	G	448	GLN
1	G	449	LEU
1	G	452	LYS
1	G	453	GLN
1	G	455	ARG
1	G	456	GLN
1	G	457	TYR
1	G	462	LEU
1	G	471	ASP
1	G	480	ILE
1	G	487	LEU
1	G	495	MET
1	G	498	LEU
1	G	506	GLU
1	G	513	ILE
1	G	524	GLU
1	G	530	MET
1	G	532	ILE
1	G	534	SER
1	G	537	GLU
1	G	549	SER
1	G	561	LYS
1	G	562	SER
1	G	569	LYS
1	G	580	SER
1	G	596	LEU
1	G	597	GLU
1	G	604	ASN
1	G	608	ILE
1	G	610	LEU
1	G	615	SER
1	G	621	LEU
1	G	625	THR
1	G	664	LEU
1	G	666	SER
1	G	673	ARG
1	G	675	ILE
1	G	676	ILE
1	G	686	MET

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Mol	Chain	Res	Type
1	G	689	GLU
1	G	690	LEU
1	G	693	HIS
1	G	698	ASN
1	G	700	VAL
1	G	701	LEU
1	G	702	GLU
1	G	704	ILE
1	G	705	ARG
1	G	707	CYS
1	G	708	ARG
1	G	713	SER
1	G	714	ARG
1	G	716	LEU
1	G	722	GLN
1	G	723	ARG
1	G	727	LEU
1	G	728	ASN
1	G	744	SER
1	G	745	GLU
1	G	748	LEU
1	G	752	ASP
1	G	753	VAL
1	G	754	ASP
1	G	762	HIS
1	G	772	LEU
1	G	774	LEU
1	G	785	GLU
1	G	787	ILE
1	G	793	ARG
1	G	798	LEU
1	G	799	MET
1	G	802	GLU
1	G	810	ARG
1	G	816	ILE
1	G	819	ASN
1	G	822	SER
1	G	832	MET
1	G	834	LEU
1	G	838	ILE
1	G	842	LEU
1	G	843	LYS

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Mol	Chain	Res	Type
2	H	129	THR
3	I	48	LYS
3	I	83	THR
3	I	85	GLU
3	I	96	LYS
1	J	7	MET
1	J	12	GLU
1	J	17	LEU
1	J	20	SER
1	J	22	LYS
1	J	23	GLU
1	J	25	ILE
1	J	36	SER
1	J	37	SER
1	J	38	VAL
1	J	40	VAL
1	J	41	VAL
1	J	46	SER
1	J	52	ILE
1	J	61	THR
1	J	65	GLU
1	J	69	THR
1	J	70	LEU
1	J	72	VAL
1	J	73	LYS
1	J	75	ASP
1	J	76	GLN
1	J	88	ILE
1	J	97	LEU
1	J	106	LEU
1	J	109	ARG
1	J	114	MET
1	J	117	THR
1	J	121	LEU
1	J	125	THR
1	J	126	VAL
1	J	127	ASN
1	J	136	ASN
1	J	146	LYS
1	J	149	GLN
1	J	155	ILE
1	J	157	SER

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Mol	Chain	Res	Type
1	J	158	ILE
1	J	159	SER
1	J	166	MET
1	J	167	LEU
1	J	169	ASP
1	J	170	ARG
1	J	173	GLN
1	J	175	ILE
1	J	178	THR
1	J	180	GLU
1	J	185	LYS
1	J	186	THR
1	J	187	VAL
1	J	189	THR
1	J	191	ARG
1	J	193	ILE
1	J	194	GLN
1	J	198	THR
1	J	199	ILE
1	J	218	LEU
1	J	219	GLU
1	J	221	GLN
1	J	223	ILE
1	J	229	LEU
1	J	244	SER
1	J	245	ARG
1	J	251	ARG
1	J	273	SER
1	J	274	ARG
1	J	278	GLN
1	J	282	GLU
1	J	287	ILE
1	J	290	GLN
1	J	291	ILE
1	J	294	ASN
1	J	298	GLU
1	J	300	ILE
1	J	302	MET
1	J	303	LEU
1	J	305	ILE
1	J	315	VAL
1	J	325	ILE

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Mol	Chain	Res	Type
1	J	331	LEU
1	J	332	MET
1	J	336	SER
1	J	351	ILE
1	J	354	LEU
1	J	359	MET
1	J	364	LEU
1	J	365	LYS
1	J	372	GLU
1	J	376	GLU
1	J	381	GLU
1	J	389	LEU
1	J	392	LEU
1	J	394	SER
1	J	399	LYS
1	J	401	LEU
1	J	405	ARG
1	J	410	ASN
1	J	411	GLU
1	J	439	LEU
1	J	448	GLN
1	J	449	LEU
1	J	452	LYS
1	J	453	GLN
1	J	455	ARG
1	J	456	GLN
1	J	457	TYR
1	J	462	LEU
1	J	471	ASP
1	J	480	ILE
1	J	487	LEU
1	J	495	MET
1	J	498	LEU
1	J	499	GLU
1	J	506	GLU
1	J	513	ILE
1	J	524	GLU
1	J	530	MET
1	J	532	ILE
1	J	534	SER
1	J	537	GLU
1	J	549	SER

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Mol	Chain	Res	Type
1	J	561	LYS
1	J	562	SER
1	J	569	LYS
1	J	580	SER
1	J	593	SER
1	J	596	LEU
1	J	597	GLU
1	J	604	ASN
1	J	608	ILE
1	J	610	LEU
1	J	615	SER
1	J	621	LEU
1	J	625	THR
1	J	664	LEU
1	J	666	SER
1	J	673	ARG
1	J	675	ILE
1	J	676	ILE
1	J	686	MET
1	J	689	GLU
1	J	690	LEU
1	J	693	HIS
1	J	698	ASN
1	J	700	VAL
1	J	701	LEU
1	J	702	GLU
1	J	704	ILE
1	J	705	ARG
1	J	707	CYS
1	J	708	ARG
1	J	713	SER
1	J	714	ARG
1	J	716	LEU
1	J	722	GLN
1	J	723	ARG
1	J	727	LEU
1	J	728	ASN
1	J	744	SER
1	J	745	GLU
1	J	748	LEU
1	J	752	ASP
1	J	753	VAL

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Mol	Chain	Res	Type
1	J	754	ASP
1	J	762	HIS
1	J	772	LEU
1	J	774	LEU
1	J	785	GLU
1	J	787	ILE
1	J	793	ARG
1	J	798	LEU
1	J	799	MET
1	J	802	GLU
1	J	810	ARG
1	J	816	ILE
1	J	819	ASN
1	J	822	SER
1	J	832	MET
1	J	834	LEU
1	J	838	ILE
1	J	842	LEU
1	J	843	LYS
2	K	129	THR
3	L	48	LYS
3	L	83	THR
3	L	85	GLU
3	L	96	LYS
1	M	7	MET
1	M	12	GLU
1	M	17	LEU
1	M	20	SER
1	M	22	LYS
1	M	23	GLU
1	M	25	ILE
1	M	36	SER
1	M	37	SER
1	M	38	VAL
1	M	40	VAL
1	M	41	VAL
1	M	46	SER
1	M	52	ILE
1	M	61	THR
1	M	65	GLU
1	M	69	THR
1	M	70	LEU

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Mol	Chain	Res	Type
1	M	72	VAL
1	M	73	LYS
1	M	75	ASP
1	M	76	GLN
1	M	88	ILE
1	M	97	LEU
1	M	106	LEU
1	M	109	ARG
1	M	114	MET
1	M	117	THR
1	M	121	LEU
1	M	125	THR
1	M	126	VAL
1	M	127	ASN
1	M	136	ASN
1	M	146	LYS
1	M	149	GLN
1	M	155	ILE
1	M	157	SER
1	M	158	ILE
1	M	159	SER
1	M	166	MET
1	M	167	LEU
1	M	169	ASP
1	M	170	ARG
1	M	173	GLN
1	M	175	ILE
1	M	178	THR
1	M	180	GLU
1	M	185	LYS
1	M	186	THR
1	M	187	VAL
1	M	189	THR
1	M	191	ARG
1	M	193	ILE
1	M	194	GLN
1	M	198	THR
1	M	199	ILE
1	M	218	LEU
1	M	219	GLU
1	M	221	GLN
1	M	223	ILE

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Mol	Chain	Res	Type
1	M	229	LEU
1	M	244	SER
1	M	245	ARG
1	M	251	ARG
1	M	273	SER
1	M	274	ARG
1	M	278	GLN
1	M	282	GLU
1	M	287	ILE
1	M	290	GLN
1	M	291	ILE
1	M	294	ASN
1	M	298	GLU
1	M	300	ILE
1	M	302	MET
1	M	303	LEU
1	M	305	ILE
1	M	315	VAL
1	M	325	ILE
1	M	331	LEU
1	M	332	MET
1	M	336	SER
1	M	351	ILE
1	M	354	LEU
1	M	359	MET
1	M	364	LEU
1	M	365	LYS
1	M	372	GLU
1	M	376	GLU
1	M	381	GLU
1	M	389	LEU
1	M	392	LEU
1	M	394	SER
1	M	399	LYS
1	M	401	LEU
1	M	405	ARG
1	M	410	ASN
1	M	411	GLU
1	M	439	LEU
1	M	448	GLN
1	M	449	LEU
1	M	452	LYS

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Mol	Chain	Res	Type
1	M	453	GLN
1	M	455	ARG
1	M	456	GLN
1	M	457	TYR
1	M	462	LEU
1	M	471	ASP
1	M	480	ILE
1	M	487	LEU
1	M	495	MET
1	M	498	LEU
1	M	506	GLU
1	M	513	ILE
1	M	524	GLU
1	M	530	MET
1	M	532	ILE
1	M	534	SER
1	M	537	GLU
1	M	549	SER
1	M	561	LYS
1	M	562	SER
1	M	569	LYS
1	M	580	SER
1	M	593	SER
1	M	596	LEU
1	M	597	GLU
1	M	604	ASN
1	M	608	ILE
1	M	610	LEU
1	M	615	SER
1	M	621	LEU
1	M	625	THR
1	M	664	LEU
1	M	666	SER
1	M	673	ARG
1	M	675	ILE
1	M	676	ILE
1	M	686	MET
1	M	689	GLU
1	M	690	LEU
1	M	693	HIS
1	M	698	ASN
1	M	700	VAL

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Mol	Chain	Res	Type
1	M	701	LEU
1	M	702	GLU
1	M	704	ILE
1	M	705	ARG
1	M	707	CYS
1	M	708	ARG
1	M	713	SER
1	M	714	ARG
1	M	716	LEU
1	M	722	GLN
1	M	723	ARG
1	M	727	LEU
1	M	728	ASN
1	M	744	SER
1	M	745	GLU
1	M	748	LEU
1	M	752	ASP
1	M	753	VAL
1	M	754	ASP
1	M	762	HIS
1	M	772	LEU
1	M	774	LEU
1	M	785	GLU
1	M	787	ILE
1	M	793	ARG
1	M	798	LEU
1	M	799	MET
1	M	802	GLU
1	M	810	ARG
1	M	816	ILE
1	M	819	ASN
1	M	822	SER
1	M	832	MET
1	M	834	LEU
1	M	838	ILE
1	M	842	LEU
1	M	843	LYS
3	O	48	LYS
3	O	83	THR
3	O	85	GLU
3	O	96	LYS
1	P	7	MET

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Mol	Chain	Res	Type
1	P	12	GLU
1	P	17	LEU
1	P	20	SER
1	P	22	LYS
1	P	23	GLU
1	P	25	ILE
1	P	36	SER
1	P	37	SER
1	P	38	VAL
1	P	40	VAL
1	P	41	VAL
1	P	46	SER
1	P	52	ILE
1	P	61	THR
1	P	65	GLU
1	P	69	THR
1	P	70	LEU
1	P	72	VAL
1	P	73	LYS
1	P	75	ASP
1	P	76	GLN
1	P	88	ILE
1	P	97	LEU
1	P	106	LEU
1	P	109	ARG
1	P	114	MET
1	P	117	THR
1	P	121	LEU
1	P	125	THR
1	P	126	VAL
1	P	127	ASN
1	P	136	ASN
1	P	146	LYS
1	P	149	GLN
1	P	155	ILE
1	P	157	SER
1	P	158	ILE
1	P	159	SER
1	P	166	MET
1	P	167	LEU
1	P	169	ASP
1	P	170	ARG

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Mol	Chain	Res	Type
1	P	173	GLN
1	P	175	ILE
1	P	178	THR
1	P	180	GLU
1	P	185	LYS
1	P	186	THR
1	P	187	VAL
1	P	189	THR
1	P	191	ARG
1	P	193	ILE
1	P	194	GLN
1	P	198	THR
1	P	199	ILE
1	P	218	LEU
1	P	219	GLU
1	P	221	GLN
1	P	223	ILE
1	P	229	LEU
1	P	244	SER
1	P	245	ARG
1	P	251	ARG
1	P	273	SER
1	P	274	ARG
1	P	278	GLN
1	P	282	GLU
1	P	287	ILE
1	P	290	GLN
1	P	291	ILE
1	P	294	ASN
1	P	298	GLU
1	P	300	ILE
1	P	302	MET
1	P	303	LEU
1	P	305	ILE
1	P	315	VAL
1	P	325	ILE
1	P	331	LEU
1	P	332	MET
1	P	336	SER
1	P	351	ILE
1	P	354	LEU
1	P	359	MET

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Mol	Chain	Res	Type
1	P	364	LEU
1	P	365	LYS
1	P	372	GLU
1	P	376	GLU
1	P	381	GLU
1	P	389	LEU
1	P	392	LEU
1	P	394	SER
1	P	399	LYS
1	P	401	LEU
1	P	405	ARG
1	P	410	ASN
1	P	411	GLU
1	P	439	LEU
1	P	448	GLN
1	P	449	LEU
1	P	452	LYS
1	P	453	GLN
1	P	455	ARG
1	P	456	GLN
1	P	457	TYR
1	P	462	LEU
1	P	471	ASP
1	P	480	ILE
1	P	487	LEU
1	P	495	MET
1	P	498	LEU
1	P	506	GLU
1	P	513	ILE
1	P	524	GLU
1	P	530	MET
1	P	532	ILE
1	P	534	SER
1	P	537	GLU
1	P	549	SER
1	P	561	LYS
1	P	562	SER
1	P	569	LYS
1	P	580	SER
1	P	593	SER
1	P	596	LEU
1	P	597	GLU

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Mol	Chain	Res	Type
1	P	604	ASN
1	P	608	ILE
1	P	610	LEU
1	P	615	SER
1	P	621	LEU
1	P	625	THR
1	P	664	LEU
1	P	666	SER
1	P	673	ARG
1	P	675	ILE
1	P	676	ILE
1	P	686	MET
1	P	689	GLU
1	P	690	LEU
1	P	693	HIS
1	P	698	ASN
1	P	700	VAL
1	P	701	LEU
1	P	702	GLU
1	P	704	ILE
1	P	705	ARG
1	P	707	CYS
1	P	708	ARG
1	P	713	SER
1	P	714	ARG
1	P	716	LEU
1	P	722	GLN
1	P	723	ARG
1	P	727	LEU
1	P	728	ASN
1	P	744	SER
1	P	745	GLU
1	P	748	LEU
1	P	752	ASP
1	P	753	VAL
1	P	754	ASP
1	P	762	HIS
1	P	772	LEU
1	P	774	LEU
1	P	785	GLU
1	P	787	ILE
1	P	793	ARG

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Mol	Chain	Res	Type
1	P	798	LEU
1	P	799	MET
1	P	802	GLU
1	P	810	ARG
1	P	816	ILE
1	P	819	ASN
1	P	822	SER
1	P	832	MET
1	P	834	LEU
1	P	838	ILE
1	P	842	LEU
1	P	843	LYS
3	R	48	LYS
3	R	83	THR
3	R	85	GLU
3	R	96	LYS
4	1	16	LEU
4	1	33	SER
4	1	34	ILE
4	1	37	ARG
4	1	65	LEU
4	1	66	THR
4	1	67	LEU
4	1	72	GLU
4	1	80	ASP
4	1	99	GLU
4	1	100	GLU
4	1	109	PRO
4	1	145	SER
4	1	153	LEU
4	1	159	VAL
4	1	180	LEU
4	1	196	ARG
4	1	199	SER
4	1	201	VAL
4	1	206	ARG
4	1	221	LEU
4	1	223	PHE
4	1	229	THR
4	1	238	LYS
4	1	239	SER
4	1	242	LEU

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Mol	Chain	Res	Type
4	1	246	GLN
4	1	253	GLU
4	1	263	GLN
4	1	274	ILE
4	1	281	SER
4	1	283	MET
4	1	287	ILE
4	1	291	LYS
4	1	293	LEU
4	1	297	ASN
4	1	299	MET
4	1	305	MET
4	1	312	ARG
4	1	315	LYS
4	1	318	THR
4	1	320	LEU
4	1	327	ILE
4	1	334	GLU
4	1	349	LEU
4	1	350	SER
4	1	351	THR
4	1	353	GLN
4	1	354	GLN
4	1	361	GLU
4	1	368	SER
4	2	16	LEU
4	2	33	SER
4	2	34	ILE
4	2	37	ARG
4	2	65	LEU
4	2	66	THR
4	2	67	LEU
4	2	72	GLU
4	2	80	ASP
4	2	99	GLU
4	2	100	GLU
4	2	109	PRO
4	2	145	SER
4	2	153	LEU
4	2	159	VAL
4	2	180	LEU
4	2	196	ARG

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Mol	Chain	Res	Type
4	2	199	SER
4	2	201	VAL
4	2	206	ARG
4	2	221	LEU
4	2	223	PHE
4	2	229	THR
4	2	238	LYS
4	2	239	SER
4	2	242	LEU
4	2	246	GLN
4	2	253	GLU
4	2	263	GLN
4	2	274	ILE
4	2	281	SER
4	2	283	MET
4	2	287	ILE
4	2	291	LYS
4	2	293	LEU
4	2	297	ASN
4	2	299	MET
4	2	305	MET
4	2	312	ARG
4	2	315	LYS
4	2	318	THR
4	2	320	LEU
4	2	327	ILE
4	2	334	GLU
4	2	349	LEU
4	2	350	SER
4	2	351	THR
4	2	353	GLN
4	2	354	GLN
4	2	361	GLU
4	2	368	SER
4	3	16	LEU
4	3	33	SER
4	3	34	ILE
4	3	37	ARG
4	3	66	THR
4	3	67	LEU
4	3	72	GLU
4	3	80	ASP

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Mol	Chain	Res	Type
4	3	99	GLU
4	3	100	GLU
4	3	109	PRO
4	3	145	SER
4	3	153	LEU
4	3	159	VAL
4	3	180	LEU
4	3	196	ARG
4	3	199	SER
4	3	201	VAL
4	3	206	ARG
4	3	221	LEU
4	3	223	PHE
4	3	229	THR
4	3	238	LYS
4	3	239	SER
4	3	242	LEU
4	3	246	GLN
4	3	253	GLU
4	3	263	GLN
4	3	274	ILE
4	3	281	SER
4	3	283	MET
4	3	287	ILE
4	3	291	LYS
4	3	293	LEU
4	3	297	ASN
4	3	299	MET
4	3	305	MET
4	3	312	ARG
4	3	315	LYS
4	3	318	THR
4	3	320	LEU
4	3	327	ILE
4	3	334	GLU
4	3	349	LEU
4	3	350	SER
4	3	351	THR
4	3	353	GLN
4	3	354	GLN
4	3	361	GLU
4	3	368	SER

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Mol	Chain	Res	Type
4	4	16	LEU
4	4	33	SER
4	4	34	ILE
4	4	37	ARG
4	4	65	LEU
4	4	66	THR
4	4	67	LEU
4	4	72	GLU
4	4	80	ASP
4	4	99	GLU
4	4	100	GLU
4	4	109	PRO
4	4	145	SER
4	4	153	LEU
4	4	159	VAL
4	4	180	LEU
4	4	196	ARG
4	4	199	SER
4	4	201	VAL
4	4	206	ARG
4	4	221	LEU
4	4	223	PHE
4	4	229	THR
4	4	238	LYS
4	4	239	SER
4	4	242	LEU
4	4	246	GLN
4	4	253	GLU
4	4	263	GLN
4	4	274	ILE
4	4	281	SER
4	4	283	MET
4	4	287	ILE
4	4	291	LYS
4	4	293	LEU
4	4	297	ASN
4	4	299	MET
4	4	305	MET
4	4	312	ARG
4	4	315	LYS
4	4	318	THR
4	4	320	LEU

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Mol	Chain	Res	Type
4	4	327	ILE
4	4	334	GLU
4	4	349	LEU
4	4	350	SER
4	4	351	THR
4	4	353	GLN
4	4	354	GLN
4	4	361	GLU
4	4	368	SER
4	5	16	LEU
4	5	33	SER
4	5	34	ILE
4	5	37	ARG
4	5	65	LEU
4	5	66	THR
4	5	67	LEU
4	5	72	GLU
4	5	80	ASP
4	5	99	GLU
4	5	100	GLU
4	5	109	PRO
4	5	145	SER
4	5	153	LEU
4	5	159	VAL
4	5	180	LEU
4	5	196	ARG
4	5	199	SER
4	5	201	VAL
4	5	206	ARG
4	5	221	LEU
4	5	223	PHE
4	5	229	THR
4	5	238	LYS
4	5	239	SER
4	5	242	LEU
4	5	246	GLN
4	5	253	GLU
4	5	263	GLN
4	5	274	ILE
4	5	281	SER
4	5	283	MET
4	5	287	ILE

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Mol	Chain	Res	Type
4	5	291	LYS
4	5	293	LEU
4	5	297	ASN
4	5	299	MET
4	5	305	MET
4	5	312	ARG
4	5	315	LYS
4	5	318	THR
4	5	320	LEU
4	5	327	ILE
4	5	334	GLU
4	5	349	LEU
4	5	350	SER
4	5	351	THR
4	5	353	GLN
4	5	354	GLN
4	5	361	GLU
4	5	368	SER
4	6	16	LEU
4	6	33	SER
4	6	34	ILE
4	6	37	ARG
4	6	66	THR
4	6	67	LEU
4	6	72	GLU
4	6	80	ASP
4	6	99	GLU
4	6	100	GLU
4	6	109	PRO
4	6	145	SER
4	6	153	LEU
4	6	159	VAL
4	6	180	LEU
4	6	196	ARG
4	6	199	SER
4	6	201	VAL
4	6	206	ARG
4	6	221	LEU
4	6	223	PHE
4	6	229	THR
4	6	238	LYS
4	6	239	SER

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Mol	Chain	Res	Type
4	6	242	LEU
4	6	246	GLN
4	6	253	GLU
4	6	263	GLN
4	6	274	ILE
4	6	281	SER
4	6	283	MET
4	6	287	ILE
4	6	291	LYS
4	6	293	LEU
4	6	297	ASN
4	6	299	MET
4	6	305	MET
4	6	312	ARG
4	6	315	LYS
4	6	318	THR
4	6	320	LEU
4	6	327	ILE
4	6	334	GLU
4	6	349	LEU
4	6	350	SER
4	6	351	THR
4	6	353	GLN
4	6	354	GLN
4	6	361	GLU
4	6	368	SER
4	7	16	LEU
4	7	33	SER
4	7	34	ILE
4	7	37	ARG
4	7	65	LEU
4	7	66	THR
4	7	67	LEU
4	7	72	GLU
4	7	80	ASP
4	7	99	GLU
4	7	100	GLU
4	7	109	PRO
4	7	145	SER
4	7	153	LEU
4	7	159	VAL
4	7	180	LEU

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Mol	Chain	Res	Type
4	7	196	ARG
4	7	199	SER
4	7	201	VAL
4	7	206	ARG
4	7	221	LEU
4	7	223	PHE
4	7	229	THR
4	7	238	LYS
4	7	239	SER
4	7	242	LEU
4	7	246	GLN
4	7	253	GLU
4	7	263	GLN
4	7	274	ILE
4	7	281	SER
4	7	283	MET
4	7	287	ILE
4	7	291	LYS
4	7	293	LEU
4	7	297	ASN
4	7	299	MET
4	7	305	MET
4	7	312	ARG
4	7	315	LYS
4	7	318	THR
4	7	320	LEU
4	7	327	ILE
4	7	334	GLU
4	7	349	LEU
4	7	350	SER
4	7	351	THR
4	7	353	GLN
4	7	354	GLN
4	7	361	GLU
4	7	368	SER
4	8	16	LEU
4	8	33	SER
4	8	34	ILE
4	8	37	ARG
4	8	65	LEU
4	8	66	THR
4	8	67	LEU

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Mol	Chain	Res	Type
4	8	72	GLU
4	8	80	ASP
4	8	99	GLU
4	8	100	GLU
4	8	109	PRO
4	8	145	SER
4	8	153	LEU
4	8	159	VAL
4	8	180	LEU
4	8	196	ARG
4	8	199	SER
4	8	201	VAL
4	8	206	ARG
4	8	221	LEU
4	8	223	PHE
4	8	229	THR
4	8	238	LYS
4	8	239	SER
4	8	242	LEU
4	8	246	GLN
4	8	253	GLU
4	8	263	GLN
4	8	274	ILE
4	8	281	SER
4	8	283	MET
4	8	287	ILE
4	8	291	LYS
4	8	293	LEU
4	8	297	ASN
4	8	299	MET
4	8	305	MET
4	8	312	ARG
4	8	315	LYS
4	8	318	THR
4	8	320	LEU
4	8	327	ILE
4	8	334	GLU
4	8	349	LEU
4	8	350	SER
4	8	351	THR
4	8	353	GLN
4	8	354	GLN

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Mol	Chain	Res	Type
4	8	361	GLU
4	8	368	SER
4	9	16	LEU
4	9	33	SER
4	9	34	ILE
4	9	37	ARG
4	9	65	LEU
4	9	66	THR
4	9	67	LEU
4	9	72	GLU
4	9	80	ASP
4	9	99	GLU
4	9	100	GLU
4	9	109	PRO
4	9	145	SER
4	9	153	LEU
4	9	159	VAL
4	9	180	LEU
4	9	196	ARG
4	9	199	SER
4	9	201	VAL
4	9	206	ARG
4	9	221	LEU
4	9	223	PHE
4	9	229	THR
4	9	238	LYS
4	9	239	SER
4	9	242	LEU
4	9	246	GLN
4	9	253	GLU
4	9	263	GLN
4	9	274	ILE
4	9	281	SER
4	9	283	MET
4	9	287	ILE
4	9	291	LYS
4	9	293	LEU
4	9	297	ASN
4	9	299	MET
4	9	305	MET
4	9	312	ARG
4	9	315	LYS

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Mol	Chain	Res	Type
4	9	318	THR
4	9	320	LEU
4	9	327	ILE
4	9	334	GLU
4	9	349	LEU
4	9	350	SER
4	9	351	THR
4	9	353	GLN
4	9	354	GLN
4	9	361	GLU
4	9	368	SER
4	V	16	LEU
4	V	33	SER
4	V	34	ILE
4	V	37	ARG
4	V	65	LEU
4	V	66	THR
4	V	67	LEU
4	V	72	GLU
4	V	80	ASP
4	V	99	GLU
4	V	100	GLU
4	V	109	PRO
4	V	145	SER
4	V	153	LEU
4	V	159	VAL
4	V	180	LEU
4	V	196	ARG
4	V	199	SER
4	V	201	VAL
4	V	206	ARG
4	V	221	LEU
4	V	223	PHE
4	V	229	THR
4	V	238	LYS
4	V	239	SER
4	V	242	LEU
4	V	246	GLN
4	V	253	GLU
4	V	263	GLN
4	V	274	ILE
4	V	281	SER

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Mol	Chain	Res	Type
4	V	283	MET
4	V	287	ILE
4	V	291	LYS
4	V	293	LEU
4	V	297	ASN
4	V	299	MET
4	V	305	MET
4	V	312	ARG
4	V	315	LYS
4	V	318	THR
4	V	320	LEU
4	V	327	ILE
4	V	334	GLU
4	V	349	LEU
4	V	350	SER
4	V	351	THR
4	V	353	GLN
4	V	354	GLN
4	V	361	GLU
4	V	368	SER
4	W	16	LEU
4	W	33	SER
4	W	34	ILE
4	W	37	ARG
4	W	65	LEU
4	W	66	THR
4	W	67	LEU
4	W	72	GLU
4	W	80	ASP
4	W	99	GLU
4	W	100	GLU
4	W	109	PRO
4	W	145	SER
4	W	153	LEU
4	W	159	VAL
4	W	180	LEU
4	W	196	ARG
4	W	199	SER
4	W	201	VAL
4	W	206	ARG
4	W	221	LEU
4	W	223	PHE

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Mol	Chain	Res	Type
4	W	229	THR
4	W	238	LYS
4	W	239	SER
4	W	242	LEU
4	W	246	GLN
4	W	253	GLU
4	W	263	GLN
4	W	274	ILE
4	W	281	SER
4	W	283	MET
4	W	287	ILE
4	W	291	LYS
4	W	293	LEU
4	W	297	ASN
4	W	299	MET
4	W	305	MET
4	W	312	ARG
4	W	315	LYS
4	W	318	THR
4	W	320	LEU
4	W	327	ILE
4	W	334	GLU
4	W	349	LEU
4	W	350	SER
4	W	351	THR
4	W	353	GLN
4	W	354	GLN
4	W	361	GLU
4	W	368	SER
4	X	16	LEU
4	X	33	SER
4	X	34	ILE
4	X	37	ARG
4	X	66	THR
4	X	67	LEU
4	X	72	GLU
4	X	80	ASP
4	X	99	GLU
4	X	100	GLU
4	X	109	PRO
4	X	145	SER
4	X	153	LEU

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Mol	Chain	Res	Type
4	X	159	VAL
4	X	180	LEU
4	X	196	ARG
4	X	199	SER
4	X	201	VAL
4	X	206	ARG
4	X	221	LEU
4	X	223	PHE
4	X	229	THR
4	X	238	LYS
4	X	239	SER
4	X	242	LEU
4	X	246	GLN
4	X	253	GLU
4	X	263	GLN
4	X	274	ILE
4	X	281	SER
4	X	283	MET
4	X	287	ILE
4	X	291	LYS
4	X	293	LEU
4	X	297	ASN
4	X	299	MET
4	X	305	MET
4	X	312	ARG
4	X	315	LYS
4	X	318	THR
4	X	320	LEU
4	X	327	ILE
4	X	334	GLU
4	X	349	LEU
4	X	350	SER
4	X	351	THR
4	X	353	GLN
4	X	354	GLN
4	X	361	GLU
4	X	368	SER
4	Y	16	LEU
4	Y	33	SER
4	Y	34	ILE
4	Y	37	ARG
4	Y	65	LEU

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Mol	Chain	Res	Type
4	Y	66	THR
4	Y	67	LEU
4	Y	72	GLU
4	Y	80	ASP
4	Y	99	GLU
4	Y	100	GLU
4	Y	109	PRO
4	Y	145	SER
4	Y	153	LEU
4	Y	159	VAL
4	Y	180	LEU
4	Y	196	ARG
4	Y	199	SER
4	Y	201	VAL
4	Y	206	ARG
4	Y	221	LEU
4	Y	223	PHE
4	Y	229	THR
4	Y	238	LYS
4	Y	239	SER
4	Y	242	LEU
4	Y	246	GLN
4	Y	253	GLU
4	Y	263	GLN
4	Y	274	ILE
4	Y	281	SER
4	Y	283	MET
4	Y	287	ILE
4	Y	291	LYS
4	Y	293	LEU
4	Y	297	ASN
4	Y	299	MET
4	Y	305	MET
4	Y	312	ARG
4	Y	315	LYS
4	Y	318	THR
4	Y	320	LEU
4	Y	327	ILE
4	Y	334	GLU
4	Y	349	LEU
4	Y	350	SER
4	Y	351	THR

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Mol	Chain	Res	Type
4	Y	353	GLN
4	Y	354	GLN
4	Y	361	GLU
4	Y	368	SER
4	Z	16	LEU
4	Z	33	SER
4	Z	34	ILE
4	Z	37	ARG
4	Z	65	LEU
4	Z	66	THR
4	Z	67	LEU
4	Z	72	GLU
4	Z	80	ASP
4	Z	99	GLU
4	Z	100	GLU
4	Z	109	PRO
4	Z	145	SER
4	Z	153	LEU
4	Z	159	VAL
4	Z	180	LEU
4	Z	196	ARG
4	Z	199	SER
4	Z	201	VAL
4	Z	206	ARG
4	Z	221	LEU
4	Z	223	PHE
4	Z	229	THR
4	Z	238	LYS
4	Z	239	SER
4	Z	242	LEU
4	Z	246	GLN
4	Z	253	GLU
4	Z	263	GLN
4	Z	274	ILE
4	Z	281	SER
4	Z	283	MET
4	Z	287	ILE
4	Z	291	LYS
4	Z	293	LEU
4	Z	297	ASN
4	Z	299	MET
4	Z	305	MET

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Mol	Chain	Res	Type
4	Z	312	ARG
4	Z	315	LYS
4	Z	318	THR
4	Z	320	LEU
4	Z	327	ILE
4	Z	334	GLU
4	Z	349	LEU
4	Z	350	SER
4	Z	351	THR
4	Z	353	GLN
4	Z	354	GLN
4	Z	361	GLU
4	Z	368	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (293) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	GLN
1	A	29	ASN
1	A	76	GLN
1	A	127	ASN
1	A	164	GLN
1	A	188	ASN
1	A	194	GLN
1	A	221	GLN
1	A	253	HIS
1	A	290	GLN
1	A	360	HIS
1	A	368	GLN
1	A	424	ASN
1	A	447	GLN
1	A	453	GLN
1	A	481	ASN
1	A	484	ASN
1	A	488	GLN
1	A	563	ASN
1	A	564	ASN
1	A	578	HIS
1	A	591	ASN
1	A	612	GLN
1	A	656	ASN
1	A	670	HIS

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Mol	Chain	Res	Type
1	A	698	ASN
1	A	762	HIS
1	A	825	ASN
1	D	29	ASN
1	D	76	GLN
1	D	127	ASN
1	D	149	GLN
1	D	164	GLN
1	D	188	ASN
1	D	194	GLN
1	D	221	GLN
1	D	253	HIS
1	D	290	GLN
1	D	360	HIS
1	D	368	GLN
1	D	424	ASN
1	D	447	GLN
1	D	453	GLN
1	D	481	ASN
1	D	484	ASN
1	D	488	GLN
1	D	563	ASN
1	D	564	ASN
1	D	578	HIS
1	D	591	ASN
1	D	612	GLN
1	D	656	ASN
1	D	670	HIS
1	D	698	ASN
1	D	762	HIS
1	D	791	GLN
1	D	825	ASN
3	F	40	ASN
3	F	52	ASN
3	F	59	ASN
1	G	29	ASN
1	G	76	GLN
1	G	127	ASN
1	G	149	GLN
1	G	164	GLN
1	G	188	ASN
1	G	194	GLN

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Mol	Chain	Res	Type
1	G	221	GLN
1	G	234	ASN
1	G	253	HIS
1	G	290	GLN
1	G	360	HIS
1	G	368	GLN
1	G	424	ASN
1	G	447	GLN
1	G	453	GLN
1	G	481	ASN
1	G	484	ASN
1	G	488	GLN
1	G	563	ASN
1	G	564	ASN
1	G	578	HIS
1	G	591	ASN
1	G	612	GLN
1	G	656	ASN
1	G	670	HIS
1	G	698	ASN
1	G	762	HIS
1	G	791	GLN
1	G	825	ASN
3	I	52	ASN
3	I	59	ASN
3	I	81	GLN
1	J	29	ASN
1	J	76	GLN
1	J	127	ASN
1	J	154	HIS
1	J	164	GLN
1	J	188	ASN
1	J	194	GLN
1	J	221	GLN
1	J	234	ASN
1	J	253	HIS
1	J	290	GLN
1	J	360	HIS
1	J	368	GLN
1	J	424	ASN
1	J	447	GLN
1	J	453	GLN

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Mol	Chain	Res	Type
1	J	481	ASN
1	J	484	ASN
1	J	488	GLN
1	J	563	ASN
1	J	564	ASN
1	J	578	HIS
1	J	591	ASN
1	J	612	GLN
1	J	656	ASN
1	J	670	HIS
1	J	698	ASN
1	J	762	HIS
1	J	791	GLN
1	J	825	ASN
2	K	159	HIS
3	L	40	ASN
3	L	52	ASN
3	L	59	ASN
1	M	29	ASN
1	M	76	GLN
1	M	127	ASN
1	M	149	GLN
1	M	164	GLN
1	M	188	ASN
1	M	194	GLN
1	M	221	GLN
1	M	253	HIS
1	M	290	GLN
1	M	360	HIS
1	M	368	GLN
1	M	424	ASN
1	M	447	GLN
1	M	453	GLN
1	M	481	ASN
1	M	484	ASN
1	M	488	GLN
1	M	552	ASN
1	M	563	ASN
1	M	564	ASN
1	M	578	HIS
1	M	591	ASN
1	M	612	GLN

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Mol	Chain	Res	Type
1	M	656	ASN
1	M	670	HIS
1	M	698	ASN
1	M	762	HIS
1	M	825	ASN
2	N	159	HIS
3	O	39	GLN
3	O	40	ASN
3	O	52	ASN
3	O	59	ASN
1	P	29	ASN
1	P	76	GLN
1	P	127	ASN
1	P	149	GLN
1	P	164	GLN
1	P	188	ASN
1	P	194	GLN
1	P	221	GLN
1	P	234	ASN
1	P	253	HIS
1	P	290	GLN
1	P	360	HIS
1	P	368	GLN
1	P	424	ASN
1	P	447	GLN
1	P	453	GLN
1	P	481	ASN
1	P	484	ASN
1	P	488	GLN
1	P	563	ASN
1	P	564	ASN
1	P	578	HIS
1	P	591	ASN
1	P	612	GLN
1	P	656	ASN
1	P	670	HIS
1	P	698	ASN
1	P	762	HIS
1	P	791	GLN
1	P	825	ASN
2	Q	159	HIS
3	R	52	ASN

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Mol	Chain	Res	Type
3	R	59	ASN
3	R	81	GLN
4	1	40	HIS
4	1	41	GLN
4	1	78	ASN
4	1	137	GLN
4	1	252	ASN
4	1	263	GLN
4	1	360	GLN
4	2	40	HIS
4	2	41	GLN
4	2	49	GLN
4	2	78	ASN
4	2	137	GLN
4	2	252	ASN
4	2	263	GLN
4	2	354	GLN
4	3	40	HIS
4	3	78	ASN
4	3	137	GLN
4	3	252	ASN
4	3	263	GLN
4	3	354	GLN
4	3	360	GLN
4	4	40	HIS
4	4	41	GLN
4	4	78	ASN
4	4	252	ASN
4	4	263	GLN
4	4	354	GLN
4	5	40	HIS
4	5	41	GLN
4	5	78	ASN
4	5	137	GLN
4	5	252	ASN
4	5	263	GLN
4	5	354	GLN
4	6	40	HIS
4	6	41	GLN
4	6	78	ASN
4	6	137	GLN
4	6	252	ASN

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Mol	Chain	Res	Type
4	6	263	GLN
4	6	354	GLN
4	6	360	GLN
4	7	40	HIS
4	7	41	GLN
4	7	78	ASN
4	7	137	GLN
4	7	252	ASN
4	7	263	GLN
4	7	354	GLN
4	8	40	HIS
4	8	41	GLN
4	8	78	ASN
4	8	137	GLN
4	8	252	ASN
4	8	263	GLN
4	8	360	GLN
4	9	40	HIS
4	9	41	GLN
4	9	78	ASN
4	9	137	GLN
4	9	252	ASN
4	9	263	GLN
4	V	40	HIS
4	V	41	GLN
4	V	78	ASN
4	V	137	GLN
4	V	252	ASN
4	V	263	GLN
4	W	40	HIS
4	W	41	GLN
4	W	78	ASN
4	W	137	GLN
4	W	252	ASN
4	W	263	GLN
4	W	360	GLN
4	X	40	HIS
4	X	41	GLN
4	X	78	ASN
4	X	92	ASN
4	X	137	GLN
4	X	252	ASN

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Mol	Chain	Res	Type
4	X	263	GLN
4	X	354	GLN
4	Y	40	HIS
4	Y	41	GLN
4	Y	78	ASN
4	Y	92	ASN
4	Y	111	ASN
4	Y	137	GLN
4	Y	252	ASN
4	Y	263	GLN
4	Y	354	GLN
4	Z	40	HIS
4	Z	41	GLN
4	Z	78	ASN
4	Z	252	ASN
4	Z	263	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

270 non-standard protein/DNA/RNA residues are modelled in this entry.

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	$\#\|Z\| > 2$
1	MLY	A	353	1	9,10,11	0.89	0	6,11,13	0.81	0
1	MLY	P	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.48	0
1	MLY	D	415	1	9,10,11	0.75	0	6,11,13	0.19	0
1	MLY	G	63	1	9,10,11	0.84	0	6,11,13	0.44	0
1	MLY	M	348	1	9,10,11	0.75	0	6,11,13	0.46	0
1	MLY	M	84	1	9,10,11	0.51	0	6,11,13	0.81	0
1	MLY	P	827	1	9,10,11	0.68	0	6,11,13	0.48	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	P	385	1	9,10,11	0.93	1 (11%)	6,11,13	0.44	0
1	MLY	D	827	1	9,10,11	0.66	0	6,11,13	0.47	0
1	MLY	A	431	1	9,10,11	0.50	0	6,11,13	0.44	0
1	MLY	G	613	1	9,10,11	0.62	0	6,11,13	0.62	0
1	MLY	P	839	1	9,10,11	0.68	0	6,11,13	0.79	0
1	MLY	A	764	1	9,10,11	0.81	0	6,11,13	0.36	0
1	MLY	J	107	1	9,10,11	0.49	0	6,11,13	0.34	0
1	MLY	J	553	1	9,10,11	0.64	0	6,11,13	0.54	0
1	MLY	G	764	1	9,10,11	0.80	0	6,11,13	0.36	0
1	MLY	D	295	1	9,10,11	0.73	0	6,11,13	0.37	0
1	MLY	D	107	1	9,10,11	0.52	0	6,11,13	0.32	0
1	MLY	D	236	1	9,10,11	0.82	1 (11%)	6,11,13	0.47	0
1	MLY	M	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	M	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	G	296	1	9,10,11	0.60	0	6,11,13	0.37	0
1	MLY	J	598	1	9,10,11	0.82	0	6,11,13	0.41	0
1	MLY	M	59	1	9,10,11	0.86	0	6,11,13	0.47	0
1	MLY	G	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	J	295	1	9,10,11	0.74	0	6,11,13	0.37	0
1	MLY	G	837	1	9,10,11	0.59	0	6,11,13	0.54	0
1	MLY	J	613	1	9,10,11	0.58	0	6,11,13	0.62	0
1	MLY	D	600	1	9,10,11	0.51	0	6,11,13	0.39	0
1	MLY	G	272	1	9,10,11	0.86	1 (11%)	6,11,13	0.54	0
1	MLY	P	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.80	0
1	MLY	D	30	1	9,10,11	0.93	0	6,11,13	0.31	0
1	MLY	G	617	1	9,10,11	0.88	0	6,11,13	0.35	0
1	MLY	P	837	1	9,10,11	0.57	0	6,11,13	0.56	0
1	MLY	G	87	1	9,10,11	1.11	1 (11%)	6,11,13	0.42	0
1	MLY	M	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	M	486	1	9,10,11	0.66	0	6,11,13	0.39	0
1	MLY	P	272	1	9,10,11	0.89	1 (11%)	6,11,13	0.56	0
1	MLY	D	528	1	9,10,11	0.91	0	6,11,13	0.64	0
1	MLY	J	504	1	9,10,11	0.84	0	6,11,13	0.23	0
1	MLY	M	617	1	9,10,11	0.91	0	6,11,13	0.33	0
1	MLY	D	598	1	9,10,11	0.84	0	6,11,13	0.41	0
1	MLY	M	782	1	9,10,11	0.82	0	6,11,13	0.38	0
1	MLY	A	553	4,1	9,10,11	0.66	0	6,11,13	0.55	0
1	MLY	J	190	1	9,10,11	1.20	2 (22%)	6,11,13	0.53	0
1	MLY	P	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	M	528	1	9,10,11	0.90	0	6,11,13	0.65	0
1	MLY	G	681	1	9,10,11	0.62	0	6,11,13	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	D	63	1	9,10,11	0.87	0	6,11,13	0.45	0
1	MLY	A	504	1	9,10,11	0.88	0	6,11,13	0.24	0
1	MLY	A	833	1	9,10,11	1.11	1 (11%)	6,11,13	0.32	0
1	MLY	G	30	1	9,10,11	0.90	0	6,11,13	0.30	0
1	MLY	J	353	1	9,10,11	0.87	0	6,11,13	0.79	0
1	MLY	A	659	1	9,10,11	0.84	1 (11%)	6,11,13	0.60	0
1	MLY	G	55	1	9,10,11	0.74	0	6,11,13	0.80	0
1	MLY	A	55	1	9,10,11	0.72	0	6,11,13	0.80	0
1	MLY	D	833	1	9,10,11	1.11	1 (11%)	6,11,13	0.31	0
1	MLY	M	827	1	9,10,11	0.67	0	6,11,13	0.47	0
1	MLY	J	63	1	9,10,11	0.85	0	6,11,13	0.44	0
1	MLY	P	764	1	9,10,11	0.82	0	6,11,13	0.38	0
1	MLY	G	130	1	9,10,11	0.79	0	6,11,13	0.73	0
1	MLY	G	138	1	9,10,11	1.20	1 (11%)	6,11,13	0.82	0
1	MLY	P	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	P	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	M	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	D	35	1	9,10,11	0.74	0	6,11,13	0.37	0
1	MLY	A	63	1	9,10,11	0.87	0	6,11,13	0.44	0
1	MLY	P	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	D	764	1	9,10,11	0.81	0	6,11,13	0.35	0
1	MLY	A	505	1	9,10,11	0.82	0	6,11,13	0.33	0
1	MLY	A	49	1	9,10,11	0.96	1 (11%)	6,11,13	0.74	0
1	MLY	D	617	1	9,10,11	0.90	0	6,11,13	0.36	0
1	MLY	G	190	1	9,10,11	1.20	2 (22%)	6,11,13	0.53	0
1	MLY	M	248	1	9,10,11	0.79	0	6,11,13	0.65	0
1	MLY	J	837	1	9,10,11	0.58	0	6,11,13	0.56	0
1	MLY	G	19	1	9,10,11	1.04	1 (11%)	6,11,13	0.58	0
1	MLY	M	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.48	0
1	MLY	D	130	1	9,10,11	0.77	0	6,11,13	0.72	0
1	MLY	J	839	1	9,10,11	0.67	0	6,11,13	0.77	0
1	MLY	D	659	1	9,10,11	0.85	1 (11%)	6,11,13	0.58	0
1	MLY	G	782	1	9,10,11	0.79	0	6,11,13	0.36	0
1	MLY	P	248	1	9,10,11	0.81	0	6,11,13	0.65	0
1	MLY	P	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	P	600	1	9,10,11	0.54	0	6,11,13	0.39	0
1	MLY	G	49	1	9,10,11	0.98	1 (11%)	6,11,13	0.74	0
1	MLY	P	782	1	9,10,11	0.83	0	6,11,13	0.35	0
1	MLY	P	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	D	768	1	9,10,11	0.75	0	6,11,13	0.41	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	A	87	1	9,10,11	1.11	1 (11%)	6,11,13	0.41	0
1	MLY	J	505	1	9,10,11	0.85	0	6,11,13	0.33	0
1	MLY	D	436	1	9,10,11	1.00	1 (11%)	6,11,13	0.47	0
1	MLY	D	19	1	9,10,11	1.07	1 (11%)	6,11,13	0.57	0
1	MLY	A	130	1	9,10,11	0.79	0	6,11,13	0.74	0
1	MLY	M	87	1	9,10,11	1.12	1 (11%)	6,11,13	0.44	0
1	MLY	D	553	4,1	9,10,11	0.65	0	6,11,13	0.55	0
1	MLY	M	681	1	9,10,11	0.58	0	6,11,13	0.47	0
1	MLY	G	248	1	9,10,11	0.78	0	6,11,13	0.66	0
1	MLY	P	59	1	9,10,11	0.84	0	6,11,13	0.47	0
1	MLY	M	768	1	9,10,11	0.76	0	6,11,13	0.43	0
1	MLY	J	272	1	9,10,11	0.90	1 (11%)	6,11,13	0.56	0
1	MLY	J	55	1	9,10,11	0.74	0	6,11,13	0.79	0
1	MLY	M	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	P	768	1	9,10,11	0.77	0	6,11,13	0.43	0
1	MLY	P	295	1	9,10,11	0.76	0	6,11,13	0.37	0
1	MLY	G	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	P	528	1	9,10,11	0.90	0	6,11,13	0.65	0
1	MLY	G	353	1	9,10,11	0.88	0	6,11,13	0.81	0
1	MLY	G	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	P	486	1	9,10,11	0.65	0	6,11,13	0.41	0
1	MLY	A	19	1	9,10,11	1.01	1 (11%)	6,11,13	0.58	0
1	MLY	J	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	M	295	1	9,10,11	0.75	0	6,11,13	0.37	0
1	MLY	M	598	1	9,10,11	0.82	0	6,11,13	0.41	0
1	MLY	M	613	1	9,10,11	0.58	0	6,11,13	0.62	0
1	MLY	A	617	1	9,10,11	0.88	0	6,11,13	0.35	0
1	MLY	G	431	1	9,10,11	0.51	0	6,11,13	0.46	0
1	MLY	A	272	1	9,10,11	0.88	1 (11%)	6,11,13	0.57	0
1	MLY	J	369	1	9,10,11	0.70	0	6,11,13	0.45	0
1	MLY	P	598	1	9,10,11	0.82	0	6,11,13	0.41	0
1	MLY	G	59	1	9,10,11	0.83	0	6,11,13	0.48	0
1	MLY	G	768	1	9,10,11	0.75	0	6,11,13	0.41	0
1	MLY	J	782	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	J	296	1	9,10,11	0.65	0	6,11,13	0.35	0
1	MLY	J	659	1	9,10,11	0.83	1 (11%)	6,11,13	0.58	0
1	MLY	J	681	1	9,10,11	0.57	0	6,11,13	0.45	0
1	MLY	G	367	1	9,10,11	0.60	0	6,11,13	0.39	0
1	MLY	G	504	1	9,10,11	0.88	0	6,11,13	0.23	0
1	MLY	J	59	1	9,10,11	0.84	0	6,11,13	0.47	0
1	MLY	D	837	1	9,10,11	0.60	0	6,11,13	0.58	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	J	138	1	9,10,11	1.19	1 (11%)	6,11,13	0.81	0
1	MLY	J	415	1	9,10,11	0.76	0	6,11,13	0.19	0
1	MLY	A	59	1	9,10,11	0.84	0	6,11,13	0.48	0
1	MLY	G	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	D	87	1	9,10,11	1.07	1 (11%)	6,11,13	0.43	0
1	MLY	A	436	1	9,10,11	0.95	1 (11%)	6,11,13	0.47	0
1	MLY	G	348	1	9,10,11	0.78	0	6,11,13	0.47	0
1	MLY	G	598	1	9,10,11	0.81	0	6,11,13	0.41	0
1	MLY	J	248	1	9,10,11	0.80	0	6,11,13	0.65	0
1	MLY	A	295	1	9,10,11	0.77	0	6,11,13	0.36	0
1	MLY	D	248	1	9,10,11	0.81	0	6,11,13	0.66	0
1	MLY	A	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.82	0
1	MLY	A	600	1	9,10,11	0.51	0	6,11,13	0.39	0
1	MLY	A	415	1	9,10,11	0.73	0	6,11,13	0.19	0
1	MLY	P	130	1	9,10,11	0.76	0	6,11,13	0.72	0
1	MLY	P	613	1	9,10,11	0.56	0	6,11,13	0.61	0
1	MLY	A	369	1	9,10,11	0.72	0	6,11,13	0.47	0
1	MLY	G	505	1	9,10,11	0.81	0	6,11,13	0.36	0
1	MLY	A	837	1	9,10,11	0.61	0	6,11,13	0.55	0
1	MLY	P	617	1	9,10,11	0.90	0	6,11,13	0.33	0
1	MLY	D	839	1	9,10,11	0.64	0	6,11,13	0.80	0
1	MLY	G	833	1	9,10,11	1.13	1 (11%)	6,11,13	0.31	0
1	MLY	G	659	1	9,10,11	0.85	1 (11%)	6,11,13	0.59	0
1	MLY	A	348	1	9,10,11	0.80	0	6,11,13	0.47	0
1	MLY	P	87	1	9,10,11	1.13	1 (11%)	6,11,13	0.42	0
1	MLY	M	504	1	9,10,11	0.85	0	6,11,13	0.23	0
1	MLY	P	681	1	9,10,11	0.58	0	6,11,13	0.48	0
1	MLY	M	367	1	9,10,11	0.59	0	6,11,13	0.37	0
1	MLY	J	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	A	486	1	9,10,11	0.66	0	6,11,13	0.40	0
1	MLY	D	59	1	9,10,11	0.86	0	6,11,13	0.48	0
1	MLY	J	764	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	M	659	1	9,10,11	0.83	0	6,11,13	0.58	0
1	MLY	P	659	1	9,10,11	0.84	1 (11%)	6,11,13	0.57	0
1	MLY	J	431	1	9,10,11	0.51	0	6,11,13	0.44	0
1	MLY	A	248	1	9,10,11	0.80	0	6,11,13	0.64	0
1	MLY	G	827	1	9,10,11	0.69	0	6,11,13	0.48	0
1	MLY	D	367	1	9,10,11	0.58	0	6,11,13	0.38	0
1	MLY	J	768	1	9,10,11	0.78	0	6,11,13	0.43	0
1	MLY	D	504	1	9,10,11	0.88	0	6,11,13	0.21	0
1	MLY	P	107	1	9,10,11	0.49	0	6,11,13	0.34	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	D	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	D	138	1	9,10,11	1.23	1 (11%)	6,11,13	0.84	0
1	MLY	A	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	G	436	1	9,10,11	0.96	1 (11%)	6,11,13	0.46	0
1	MLY	G	528	1	9,10,11	0.91	0	6,11,13	0.66	0
1	MLY	G	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.47	0
1	MLY	G	553	4,1	9,10,11	0.65	0	6,11,13	0.55	0
1	MLY	D	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	D	190	1	9,10,11	1.17	2 (22%)	6,11,13	0.54	0
1	MLY	J	551	1	9,10,11	0.53	0	6,11,13	0.20	0
1	MLY	D	55	1	9,10,11	0.74	0	6,11,13	0.80	0
1	MLY	M	63	1	9,10,11	0.87	0	6,11,13	0.44	0
1	MLY	P	436	1	9,10,11	0.95	1 (11%)	6,11,13	0.48	0
1	MLY	P	19	1	9,10,11	1.08	1 (11%)	6,11,13	0.58	0
1	MLY	M	505	1	9,10,11	0.83	0	6,11,13	0.34	0
1	MLY	M	49	1	9,10,11	0.98	1 (11%)	6,11,13	0.74	0
1	MLY	D	551	1	9,10,11	0.54	0	6,11,13	0.19	0
1	MLY	G	369	1	9,10,11	0.71	0	6,11,13	0.47	0
1	MLY	J	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	J	528	1	9,10,11	0.89	0	6,11,13	0.65	0
1	MLY	P	296	1	9,10,11	0.63	0	6,11,13	0.35	0
1	MLY	D	782	1	9,10,11	0.82	0	6,11,13	0.36	0
1	MLY	A	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	M	55	1	9,10,11	0.73	0	6,11,13	0.79	0
1	MLY	A	782	1	9,10,11	0.83	0	6,11,13	0.36	0
1	MLY	A	768	1	9,10,11	0.77	0	6,11,13	0.40	0
1	MLY	D	49	1	9,10,11	0.98	1 (11%)	6,11,13	0.75	0
1	MLY	P	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.54	0
1	MLY	A	84	1	9,10,11	0.51	0	6,11,13	0.80	0
1	MLY	J	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	A	528	1	9,10,11	0.89	0	6,11,13	0.67	0
1	MLY	J	827	1	9,10,11	0.70	0	6,11,13	0.47	0
1	MLY	D	613	1	9,10,11	0.59	0	6,11,13	0.62	0
1	MLY	M	296	1	9,10,11	0.66	0	6,11,13	0.35	0
1	MLY	A	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	A	296	1	9,10,11	0.59	0	6,11,13	0.35	0
1	MLY	M	272	1	9,10,11	0.91	1 (11%)	6,11,13	0.57	0
1	MLY	J	833	1	9,10,11	1.14	1 (11%)	6,11,13	0.29	0
1	MLY	A	827	1	9,10,11	0.69	0	6,11,13	0.44	0
1	MLY	D	296	1	9,10,11	0.63	0	6,11,13	0.36	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	J	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.44	0
1	MLY	D	385	1	9,10,11	0.90	1 (11%)	6,11,13	0.46	0
1	MLY	A	598	1	9,10,11	0.84	1 (11%)	6,11,13	0.43	0
1	MLY	J	486	1	9,10,11	0.64	0	6,11,13	0.40	0
1	MLY	M	431	1	9,10,11	0.51	0	6,11,13	0.45	0
1	MLY	M	369	1	9,10,11	0.71	0	6,11,13	0.46	0
1	MLY	M	839	1	9,10,11	0.70	0	6,11,13	0.77	0
1	MLY	D	272	1	9,10,11	0.85	1 (11%)	6,11,13	0.57	0
1	MLY	A	35	1	9,10,11	0.73	0	6,11,13	0.37	0
1	MLY	J	436	1	9,10,11	0.94	1 (11%)	6,11,13	0.48	0
1	MLY	D	486	1	9,10,11	0.67	0	6,11,13	0.41	0
1	MLY	J	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.48	0
1	MLY	P	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	P	553	1	9,10,11	0.66	0	6,11,13	0.54	0
1	MLY	D	353	1	9,10,11	0.85	0	6,11,13	0.81	0
1	MLY	P	369	1	9,10,11	0.71	0	6,11,13	0.45	0
1	MLY	G	35	1	9,10,11	0.72	0	6,11,13	0.38	0
1	MLY	D	369	1	9,10,11	0.70	0	6,11,13	0.44	0
1	MLY	J	19	1	9,10,11	1.06	1 (11%)	6,11,13	0.58	0
1	MLY	P	504	1	9,10,11	0.84	0	6,11,13	0.23	0
1	MLY	M	553	1	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	A	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.51	0
1	MLY	A	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.49	0
1	MLY	P	833	1	9,10,11	1.14	2 (22%)	6,11,13	0.30	0
1	MLY	M	837	1	9,10,11	0.58	0	6,11,13	0.55	0
1	MLY	G	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	M	190	1	9,10,11	1.20	2 (22%)	6,11,13	0.53	0
1	MLY	J	367	1	9,10,11	0.59	0	6,11,13	0.37	0
1	MLY	P	348	1	9,10,11	0.76	0	6,11,13	0.47	0
1	MLY	G	839	1	9,10,11	0.65	0	6,11,13	0.79	0
1	MLY	A	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.45	0
1	MLY	G	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	M	833	1	9,10,11	1.13	1 (11%)	6,11,13	0.30	0
1	MLY	M	138	1	9,10,11	1.22	1 (11%)	6,11,13	0.81	0
1	MLY	A	839	1	9,10,11	0.64	0	6,11,13	0.81	0
1	MLY	P	63	1	9,10,11	0.84	0	6,11,13	0.43	0
1	MLY	P	431	1	9,10,11	0.53	0	6,11,13	0.44	0
1	MLY	G	295	1	9,10,11	0.76	0	6,11,13	0.36	0
1	MLY	A	613	1	9,10,11	0.59	0	6,11,13	0.62	0
1	MLY	A	681	1	9,10,11	0.58	0	6,11,13	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	P	505	1	9,10,11	0.84	0	6,11,13	0.33	0
1	MLY	P	49	1	9,10,11	1.00	1 (11%)	6,11,13	0.76	0
1	MLY	D	348	1	9,10,11	0.75	0	6,11,13	0.47	0
1	MLY	M	764	1	9,10,11	0.81	0	6,11,13	0.38	0
1	MLY	J	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.75	0
1	MLY	M	436	1	9,10,11	0.95	1 (11%)	6,11,13	0.48	0
1	MLY	G	600	1	9,10,11	0.52	0	6,11,13	0.37	0
1	MLY	A	107	1	9,10,11	0.48	0	6,11,13	0.33	0
1	MLY	J	87	1	9,10,11	1.11	1 (11%)	6,11,13	0.43	0
1	MLY	M	19	1	9,10,11	1.07	1 (11%)	6,11,13	0.59	0
1	MLY	J	130	1	9,10,11	0.74	0	6,11,13	0.73	0
1	MLY	J	35	1	9,10,11	0.74	0	6,11,13	0.38	0
1	MLY	D	505	1	9,10,11	0.78	0	6,11,13	0.35	0
1	MLY	M	353	1	9,10,11	0.87	0	6,11,13	0.81	0
1	MLY	M	415	1	9,10,11	0.77	0	6,11,13	0.19	0
1	MLY	D	681	1	9,10,11	0.55	0	6,11,13	0.46	0
1	MLY	M	130	1	9,10,11	0.75	0	6,11,13	0.73	0
1	MLY	P	55	1	9,10,11	0.74	0	6,11,13	0.80	0
1	MLY	J	617	1	9,10,11	0.90	0	6,11,13	0.34	0
1	MLY	M	551	1	9,10,11	0.54	0	6,11,13	0.19	0

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
1	MLY	A	353	1	-	4/8/9/11	-
1	MLY	P	236	1	-	3/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	M	348	1	-	5/8/9/11	-
1	MLY	M	84	1	-	4/8/9/11	-
1	MLY	P	827	1	-	1/8/9/11	-
1	MLY	P	385	1	-	2/8/9/11	-
1	MLY	D	827	1	-	1/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-
1	MLY	G	613	1	-	3/8/9/11	-
1	MLY	P	839	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	J	553	1	-	4/8/9/11	-
1	MLY	G	764	1	-	2/8/9/11	-
1	MLY	D	295	1	-	2/8/9/11	-
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	M	600	1	-	3/8/9/11	-
1	MLY	M	30	1	-	3/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	M	59	1	-	3/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	G	837	1	-	6/8/9/11	-
1	MLY	J	613	1	-	3/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	P	138	1	-	4/8/9/11	-
1	MLY	D	30	1	-	3/8/9/11	-
1	MLY	G	617	1	-	2/8/9/11	-
1	MLY	P	837	1	-	6/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	M	385	1	-	2/8/9/11	-
1	MLY	M	486	1	-	2/8/9/11	-
1	MLY	P	272	1	-	3/8/9/11	-
1	MLY	D	528	1	-	4/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	M	617	1	-	2/8/9/11	-
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	M	782	1	-	6/8/9/11	-
1	MLY	A	553	4,1	-	4/8/9/11	-
1	MLY	J	190	1	-	4/8/9/11	-
1	MLY	P	84	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	M	528	1	-	4/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-
1	MLY	G	30	1	-	3/8/9/11	-
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-
1	MLY	M	827	1	-	1/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	P	764	1	-	2/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	P	35	1	-	3/8/9/11	-
1	MLY	P	415	1	-	3/8/9/11	-
1	MLY	M	35	1	-	3/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	P	367	1	-	2/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	D	617	1	-	2/8/9/11	-
1	MLY	G	190	1	-	4/8/9/11	-
1	MLY	M	248	1	-	6/8/9/11	-
1	MLY	J	837	1	-	6/8/9/11	-
1	MLY	G	19	1	-	4/8/9/11	-
1	MLY	M	236	1	-	3/8/9/11	-
1	MLY	D	130	1	-	5/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	P	248	1	-	6/8/9/11	-
1	MLY	P	551	1	-	3/8/9/11	-
1	MLY	P	600	1	-	3/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	P	782	1	-	6/8/9/11	-
1	MLY	P	30	1	-	3/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	M	87	1	-	2/8/9/11	-
1	MLY	D	553	4,1	-	4/8/9/11	-
1	MLY	M	681	1	-	4/8/9/11	-
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	P	59	1	-	3/8/9/11	-
1	MLY	M	768	1	-	4/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	M	107	1	-	2/8/9/11	-
1	MLY	P	768	1	-	4/8/9/11	-
1	MLY	P	295	1	-	2/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-
1	MLY	P	528	1	-	4/8/9/11	-
1	MLY	G	353	1	-	4/8/9/11	-
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	P	486	1	-	2/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	M	295	1	-	2/8/9/11	-
1	MLY	M	598	1	-	5/8/9/11	-
1	MLY	M	613	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	617	1	-	2/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	P	598	1	-	5/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	D	837	1	-	6/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	P	130	1	-	5/8/9/11	-
1	MLY	P	613	1	-	3/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-
1	MLY	A	837	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	617	1	-	2/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	P	87	1	-	2/8/9/11	-
1	MLY	M	504	1	-	4/8/9/11	-
1	MLY	P	681	1	-	4/8/9/11	-
1	MLY	M	367	1	-	2/8/9/11	-
1	MLY	J	30	1	-	3/8/9/11	-
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	M	659	1	-	3/8/9/11	-
1	MLY	P	659	1	-	3/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	G	827	1	-	1/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	P	107	1	-	2/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	A	30	1	-	3/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	G	528	1	-	4/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	G	553	4,1	-	4/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	D	190	1	-	4/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-
1	MLY	M	63	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	436	1	-	4/8/9/11	-
1	MLY	P	19	1	-	4/8/9/11	-
1	MLY	M	505	1	-	5/8/9/11	-
1	MLY	M	49	1	-	3/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	J	528	1	-	4/8/9/11	-
1	MLY	P	296	1	-	4/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	M	55	1	-	6/8/9/11	-
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	D	49	1	-	3/8/9/11	-
1	MLY	P	190	1	-	4/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-
1	MLY	A	528	1	-	4/8/9/11	-
1	MLY	J	827	1	-	1/8/9/11	-
1	MLY	D	613	1	-	3/8/9/11	-
1	MLY	M	296	1	-	4/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	M	272	1	-	3/8/9/11	-
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	A	827	1	-	1/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	M	431	1	-	4/8/9/11	-
1	MLY	M	369	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	M	839	1	-	3/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	P	353	1	-	4/8/9/11	-
1	MLY	P	553	1	-	4/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	P	369	1	-	2/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	P	504	1	-	4/8/9/11	-
1	MLY	M	553	1	-	4/8/9/11	-
1	MLY	A	190	1	-	4/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-
1	MLY	P	833	1	-	6/8/9/11	-
1	MLY	M	837	1	-	6/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	M	190	1	-	4/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	P	348	1	-	5/8/9/11	-
1	MLY	G	839	1	-	3/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	G	551	1	-	3/8/9/11	-
1	MLY	M	833	1	-	6/8/9/11	-
1	MLY	M	138	1	-	4/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	P	63	1	-	4/8/9/11	-
1	MLY	P	431	1	-	4/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	A	613	1	-	3/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	505	1	-	5/8/9/11	-
1	MLY	P	49	1	-	3/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	M	764	1	-	2/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	M	436	1	-	4/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	M	19	1	-	4/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	M	353	1	-	4/8/9/11	-
1	MLY	M	415	1	-	3/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	M	130	1	-	5/8/9/11	-
1	MLY	P	55	1	-	6/8/9/11	-
1	MLY	J	617	1	-	2/8/9/11	-
1	MLY	M	551	1	-	3/8/9/11	-

All (73) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.26	1.48	1.53
1	M	138	MLY	CB-CA	-3.22	1.48	1.53
1	A	138	MLY	CB-CA	-3.21	1.48	1.53
1	P	138	MLY	CB-CA	-3.20	1.48	1.53
1	G	138	MLY	CB-CA	-3.17	1.48	1.53
1	J	138	MLY	CB-CA	-3.11	1.48	1.53
1	P	19	MLY	CB-CA	-2.79	1.49	1.53
1	D	19	MLY	CB-CA	-2.77	1.49	1.53
1	M	19	MLY	CB-CA	-2.76	1.49	1.53
1	P	87	MLY	CB-CA	-2.74	1.49	1.53
1	J	19	MLY	CB-CA	-2.73	1.49	1.53
1	G	87	MLY	CB-CA	-2.73	1.49	1.53
1	D	436	MLY	CB-CA	-2.70	1.49	1.53
1	J	87	MLY	CB-CA	-2.69	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	87	MLY	CB-CA	-2.69	1.49	1.53
1	M	87	MLY	CB-CA	-2.68	1.49	1.53
1	G	19	MLY	CB-CA	-2.64	1.49	1.53
1	D	87	MLY	CB-CA	-2.61	1.49	1.53
1	A	19	MLY	CB-CA	-2.58	1.49	1.53
1	M	436	MLY	CB-CA	-2.57	1.49	1.53
1	G	436	MLY	CB-CA	-2.56	1.49	1.53
1	P	436	MLY	CB-CA	-2.55	1.49	1.53
1	A	436	MLY	CB-CA	-2.53	1.49	1.53
1	P	49	MLY	CB-CA	-2.53	1.49	1.53
1	J	436	MLY	CB-CA	-2.51	1.49	1.53
1	J	49	MLY	CB-CA	-2.48	1.49	1.53
1	M	272	MLY	CB-CA	-2.44	1.49	1.53
1	D	49	MLY	CB-CA	-2.42	1.49	1.53
1	M	49	MLY	CB-CA	-2.41	1.49	1.53
1	G	49	MLY	CB-CA	-2.40	1.49	1.53
1	J	272	MLY	CB-CA	-2.39	1.49	1.53
1	P	272	MLY	CB-CA	-2.37	1.50	1.53
1	A	49	MLY	CB-CA	-2.34	1.50	1.53
1	A	272	MLY	CB-CA	-2.33	1.50	1.53
1	G	272	MLY	CB-CA	-2.29	1.50	1.53
1	A	236	MLY	CA-N	-2.28	1.41	1.48
1	J	236	MLY	CA-N	-2.28	1.41	1.48
1	P	236	MLY	CA-N	-2.27	1.41	1.48
1	P	190	MLY	CB-CA	-2.26	1.50	1.53
1	M	236	MLY	CA-N	-2.26	1.41	1.48
1	G	236	MLY	CA-N	-2.25	1.41	1.48
1	D	236	MLY	CA-N	-2.24	1.41	1.48
1	D	272	MLY	CB-CA	-2.23	1.50	1.53
1	M	190	MLY	CB-CA	-2.23	1.50	1.53
1	J	190	MLY	CB-CA	-2.21	1.50	1.53
1	G	190	MLY	CB-CA	-2.20	1.50	1.53
1	M	385	MLY	CB-CA	-2.20	1.50	1.53
1	J	385	MLY	CB-CA	-2.19	1.50	1.53
1	A	190	MLY	CB-CA	-2.19	1.50	1.53
1	J	833	MLY	CB-CA	-2.18	1.50	1.53
1	G	833	MLY	CA-N	-2.16	1.42	1.48
1	G	385	MLY	CB-CA	-2.16	1.50	1.53
1	D	833	MLY	CA-N	-2.15	1.42	1.48
1	M	833	MLY	CB-CA	-2.14	1.50	1.53
1	P	385	MLY	CB-CA	-2.13	1.50	1.53
1	P	833	MLY	CB-CA	-2.11	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	190	MLY	CA-N	-2.09	1.42	1.48
1	D	190	MLY	CB-CA	-2.09	1.50	1.53
1	A	385	MLY	CB-CA	-2.08	1.50	1.53
1	A	833	MLY	CA-N	-2.08	1.42	1.48
1	P	190	MLY	CA-N	-2.07	1.42	1.48
1	A	190	MLY	CA-N	-2.07	1.42	1.48
1	D	190	MLY	CA-N	-2.06	1.42	1.48
1	D	385	MLY	CB-CA	-2.05	1.50	1.53
1	G	190	MLY	CA-N	-2.04	1.42	1.48
1	D	659	MLY	CA-N	-2.04	1.42	1.48
1	M	190	MLY	CA-N	-2.04	1.42	1.48
1	G	659	MLY	CA-N	-2.03	1.42	1.48
1	P	659	MLY	CA-N	-2.03	1.42	1.48
1	P	833	MLY	CA-N	-2.03	1.42	1.48
1	A	659	MLY	CA-N	-2.02	1.42	1.48
1	J	659	MLY	CA-N	-2.02	1.42	1.48
1	A	598	MLY	CB-CA	-2.02	1.50	1.53

There are no bond angle outliers.

There are no chirality outliers.

All (966) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	19	MLY	C-CA-CB-CG
1	A	49	MLY	N-CA-CB-CG
1	A	49	MLY	C-CA-CB-CG
1	A	55	MLY	N-CA-CB-CG
1	A	55	MLY	C-CA-CB-CG
1	A	84	MLY	C-CA-CB-CG
1	A	130	MLY	C-CA-CB-CG
1	A	248	MLY	N-CA-CB-CG
1	A	248	MLY	C-CA-CB-CG
1	A	348	MLY	C-CA-CB-CG
1	A	436	MLY	C-CA-CB-CG
1	A	486	MLY	C-CA-CB-CG
1	A	505	MLY	N-CA-CB-CG
1	A	505	MLY	C-CA-CB-CG
1	A	528	MLY	C-CA-CB-CG
1	A	551	MLY	C-CA-CB-CG
1	A	553	MLY	C-CA-CB-CG
1	A	598	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	A	598	MLY	C-CA-CB-CG
1	A	613	MLY	N-CA-CB-CG
1	A	613	MLY	C-CA-CB-CG
1	A	681	MLY	C-CA-CB-CG
1	A	782	MLY	C-CA-CB-CG
1	A	782	MLY	O-C-CA-CB
1	D	19	MLY	C-CA-CB-CG
1	D	49	MLY	N-CA-CB-CG
1	D	49	MLY	C-CA-CB-CG
1	D	55	MLY	N-CA-CB-CG
1	D	55	MLY	C-CA-CB-CG
1	D	84	MLY	C-CA-CB-CG
1	D	130	MLY	C-CA-CB-CG
1	D	248	MLY	N-CA-CB-CG
1	D	248	MLY	C-CA-CB-CG
1	D	348	MLY	N-CA-CB-CG
1	D	348	MLY	C-CA-CB-CG
1	D	436	MLY	C-CA-CB-CG
1	D	486	MLY	C-CA-CB-CG
1	D	505	MLY	N-CA-CB-CG
1	D	505	MLY	C-CA-CB-CG
1	D	528	MLY	C-CA-CB-CG
1	D	551	MLY	C-CA-CB-CG
1	D	553	MLY	C-CA-CB-CG
1	D	598	MLY	N-CA-CB-CG
1	D	598	MLY	C-CA-CB-CG
1	D	613	MLY	N-CA-CB-CG
1	D	613	MLY	C-CA-CB-CG
1	D	681	MLY	C-CA-CB-CG
1	D	782	MLY	C-CA-CB-CG
1	D	782	MLY	O-C-CA-CB
1	G	19	MLY	C-CA-CB-CG
1	G	49	MLY	N-CA-CB-CG
1	G	49	MLY	C-CA-CB-CG
1	G	55	MLY	N-CA-CB-CG
1	G	55	MLY	C-CA-CB-CG
1	G	84	MLY	C-CA-CB-CG
1	G	130	MLY	C-CA-CB-CG
1	G	248	MLY	N-CA-CB-CG
1	G	248	MLY	C-CA-CB-CG
1	G	348	MLY	N-CA-CB-CG
1	G	348	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	G	436	MLY	C-CA-CB-CG
1	G	486	MLY	C-CA-CB-CG
1	G	505	MLY	N-CA-CB-CG
1	G	505	MLY	C-CA-CB-CG
1	G	528	MLY	C-CA-CB-CG
1	G	551	MLY	C-CA-CB-CG
1	G	553	MLY	C-CA-CB-CG
1	G	598	MLY	N-CA-CB-CG
1	G	598	MLY	C-CA-CB-CG
1	G	613	MLY	N-CA-CB-CG
1	G	613	MLY	C-CA-CB-CG
1	G	681	MLY	C-CA-CB-CG
1	G	782	MLY	C-CA-CB-CG
1	G	782	MLY	O-C-CA-CB
1	J	19	MLY	C-CA-CB-CG
1	J	49	MLY	N-CA-CB-CG
1	J	49	MLY	C-CA-CB-CG
1	J	55	MLY	N-CA-CB-CG
1	J	55	MLY	C-CA-CB-CG
1	J	84	MLY	C-CA-CB-CG
1	J	130	MLY	C-CA-CB-CG
1	J	248	MLY	N-CA-CB-CG
1	J	248	MLY	C-CA-CB-CG
1	J	348	MLY	N-CA-CB-CG
1	J	348	MLY	C-CA-CB-CG
1	J	436	MLY	C-CA-CB-CG
1	J	486	MLY	C-CA-CB-CG
1	J	505	MLY	N-CA-CB-CG
1	J	505	MLY	C-CA-CB-CG
1	J	528	MLY	C-CA-CB-CG
1	J	551	MLY	C-CA-CB-CG
1	J	553	MLY	C-CA-CB-CG
1	J	598	MLY	N-CA-CB-CG
1	J	598	MLY	C-CA-CB-CG
1	J	613	MLY	N-CA-CB-CG
1	J	613	MLY	C-CA-CB-CG
1	J	681	MLY	C-CA-CB-CG
1	J	782	MLY	C-CA-CB-CG
1	J	782	MLY	O-C-CA-CB
1	M	19	MLY	C-CA-CB-CG
1	M	49	MLY	N-CA-CB-CG
1	M	49	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	M	55	MLY	N-CA-CB-CG
1	M	55	MLY	C-CA-CB-CG
1	M	84	MLY	C-CA-CB-CG
1	M	130	MLY	C-CA-CB-CG
1	M	248	MLY	N-CA-CB-CG
1	M	248	MLY	C-CA-CB-CG
1	M	348	MLY	N-CA-CB-CG
1	M	348	MLY	C-CA-CB-CG
1	M	436	MLY	C-CA-CB-CG
1	M	486	MLY	C-CA-CB-CG
1	M	505	MLY	N-CA-CB-CG
1	M	505	MLY	C-CA-CB-CG
1	M	528	MLY	C-CA-CB-CG
1	M	551	MLY	C-CA-CB-CG
1	M	553	MLY	C-CA-CB-CG
1	M	598	MLY	N-CA-CB-CG
1	M	598	MLY	C-CA-CB-CG
1	M	613	MLY	N-CA-CB-CG
1	M	613	MLY	C-CA-CB-CG
1	M	681	MLY	C-CA-CB-CG
1	M	782	MLY	C-CA-CB-CG
1	M	782	MLY	O-C-CA-CB
1	P	19	MLY	C-CA-CB-CG
1	P	49	MLY	N-CA-CB-CG
1	P	49	MLY	C-CA-CB-CG
1	P	55	MLY	N-CA-CB-CG
1	P	55	MLY	C-CA-CB-CG
1	P	84	MLY	C-CA-CB-CG
1	P	130	MLY	C-CA-CB-CG
1	P	248	MLY	N-CA-CB-CG
1	P	248	MLY	C-CA-CB-CG
1	P	348	MLY	N-CA-CB-CG
1	P	348	MLY	C-CA-CB-CG
1	P	436	MLY	C-CA-CB-CG
1	P	486	MLY	C-CA-CB-CG
1	P	505	MLY	N-CA-CB-CG
1	P	505	MLY	C-CA-CB-CG
1	P	528	MLY	C-CA-CB-CG
1	P	551	MLY	C-CA-CB-CG
1	P	553	MLY	C-CA-CB-CG
1	P	598	MLY	N-CA-CB-CG
1	P	598	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	P	613	MLY	N-CA-CB-CG
1	P	613	MLY	C-CA-CB-CG
1	P	681	MLY	C-CA-CB-CG
1	P	782	MLY	C-CA-CB-CG
1	P	782	MLY	O-C-CA-CB
1	A	84	MLY	CD-CE-NZ-CH1
1	A	248	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH2
1	A	367	MLY	CD-CE-NZ-CH2
1	A	431	MLY	CD-CE-NZ-CH2
1	A	600	MLY	CD-CE-NZ-CH2
1	A	764	MLY	CD-CE-NZ-CH1
1	A	764	MLY	CD-CE-NZ-CH2
1	A	782	MLY	CD-CE-NZ-CH2
1	A	833	MLY	CD-CE-NZ-CH1
1	A	833	MLY	CD-CE-NZ-CH2
1	A	837	MLY	CD-CE-NZ-CH2
1	D	55	MLY	CD-CE-NZ-CH2
1	D	84	MLY	CD-CE-NZ-CH1
1	D	248	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH2
1	D	431	MLY	CD-CE-NZ-CH2
1	D	600	MLY	CD-CE-NZ-CH2
1	D	764	MLY	CD-CE-NZ-CH1
1	D	764	MLY	CD-CE-NZ-CH2
1	D	782	MLY	CD-CE-NZ-CH2
1	D	833	MLY	CD-CE-NZ-CH1
1	D	833	MLY	CD-CE-NZ-CH2
1	D	837	MLY	CD-CE-NZ-CH2
1	G	55	MLY	CD-CE-NZ-CH2
1	G	84	MLY	CD-CE-NZ-CH1
1	G	248	MLY	CD-CE-NZ-CH1
1	G	296	MLY	CD-CE-NZ-CH1
1	G	296	MLY	CD-CE-NZ-CH2
1	G	367	MLY	CD-CE-NZ-CH2
1	G	431	MLY	CD-CE-NZ-CH2
1	G	600	MLY	CD-CE-NZ-CH2
1	G	764	MLY	CD-CE-NZ-CH1
1	G	764	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	782	MLY	CD-CE-NZ-CH2
1	G	833	MLY	CD-CE-NZ-CH1
1	G	833	MLY	CD-CE-NZ-CH2
1	G	837	MLY	CD-CE-NZ-CH2
1	J	84	MLY	CD-CE-NZ-CH1
1	J	248	MLY	CD-CE-NZ-CH1
1	J	296	MLY	CD-CE-NZ-CH1
1	J	296	MLY	CD-CE-NZ-CH2
1	J	367	MLY	CD-CE-NZ-CH2
1	J	431	MLY	CD-CE-NZ-CH2
1	J	600	MLY	CD-CE-NZ-CH2
1	J	764	MLY	CD-CE-NZ-CH1
1	J	764	MLY	CD-CE-NZ-CH2
1	J	782	MLY	CD-CE-NZ-CH2
1	J	833	MLY	CD-CE-NZ-CH1
1	J	833	MLY	CD-CE-NZ-CH2
1	J	837	MLY	CD-CE-NZ-CH2
1	M	84	MLY	CD-CE-NZ-CH1
1	M	248	MLY	CD-CE-NZ-CH1
1	M	296	MLY	CD-CE-NZ-CH1
1	M	296	MLY	CD-CE-NZ-CH2
1	M	367	MLY	CD-CE-NZ-CH2
1	M	431	MLY	CD-CE-NZ-CH2
1	M	600	MLY	CD-CE-NZ-CH2
1	M	764	MLY	CD-CE-NZ-CH1
1	M	764	MLY	CD-CE-NZ-CH2
1	M	782	MLY	CD-CE-NZ-CH2
1	M	833	MLY	CD-CE-NZ-CH1
1	M	833	MLY	CD-CE-NZ-CH2
1	M	837	MLY	CD-CE-NZ-CH2
1	P	84	MLY	CD-CE-NZ-CH1
1	P	248	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH2
1	P	431	MLY	CD-CE-NZ-CH2
1	P	600	MLY	CD-CE-NZ-CH2
1	P	764	MLY	CD-CE-NZ-CH1
1	P	764	MLY	CD-CE-NZ-CH2
1	P	782	MLY	CD-CE-NZ-CH2
1	P	833	MLY	CD-CE-NZ-CH1
1	P	833	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	P	837	MLY	CD-CE-NZ-CH2
1	A	295	MLY	CG-CD-CE-NZ
1	D	295	MLY	CG-CD-CE-NZ
1	G	295	MLY	CG-CD-CE-NZ
1	J	295	MLY	CG-CD-CE-NZ
1	M	295	MLY	CG-CD-CE-NZ
1	P	295	MLY	CG-CD-CE-NZ
1	A	659	MLY	CG-CD-CE-NZ
1	D	659	MLY	CG-CD-CE-NZ
1	G	659	MLY	CG-CD-CE-NZ
1	J	659	MLY	CG-CD-CE-NZ
1	M	659	MLY	CG-CD-CE-NZ
1	A	35	MLY	CG-CD-CE-NZ
1	D	35	MLY	CG-CD-CE-NZ
1	G	35	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	M	35	MLY	CG-CD-CE-NZ
1	P	35	MLY	CG-CD-CE-NZ
1	P	659	MLY	CG-CD-CE-NZ
1	A	55	MLY	CD-CE-NZ-CH2
1	A	59	MLY	CD-CE-NZ-CH1
1	A	59	MLY	CD-CE-NZ-CH2
1	A	63	MLY	CD-CE-NZ-CH1
1	A	84	MLY	CD-CE-NZ-CH2
1	A	130	MLY	CD-CE-NZ-CH1
1	A	130	MLY	CD-CE-NZ-CH2
1	A	138	MLY	CD-CE-NZ-CH1
1	A	138	MLY	CD-CE-NZ-CH2
1	A	190	MLY	CD-CE-NZ-CH1
1	A	190	MLY	CD-CE-NZ-CH2
1	A	248	MLY	CD-CE-NZ-CH2
1	A	272	MLY	CD-CE-NZ-CH1
1	A	348	MLY	CD-CE-NZ-CH1
1	A	348	MLY	CD-CE-NZ-CH2
1	A	353	MLY	CD-CE-NZ-CH1
1	A	353	MLY	CD-CE-NZ-CH2
1	A	367	MLY	CD-CE-NZ-CH1
1	A	385	MLY	CD-CE-NZ-CH1
1	A	385	MLY	CD-CE-NZ-CH2
1	A	431	MLY	CD-CE-NZ-CH1
1	A	505	MLY	CD-CE-NZ-CH1
1	A	505	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	A	528	MLY	CD-CE-NZ-CH1
1	A	528	MLY	CD-CE-NZ-CH2
1	A	553	MLY	CD-CE-NZ-CH2
1	A	600	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH1
1	A	782	MLY	CD-CE-NZ-CH1
1	A	837	MLY	CD-CE-NZ-CH1
1	A	839	MLY	CD-CE-NZ-CH2
1	D	59	MLY	CD-CE-NZ-CH1
1	D	59	MLY	CD-CE-NZ-CH2
1	D	63	MLY	CD-CE-NZ-CH1
1	D	84	MLY	CD-CE-NZ-CH2
1	D	130	MLY	CD-CE-NZ-CH1
1	D	130	MLY	CD-CE-NZ-CH2
1	D	138	MLY	CD-CE-NZ-CH1
1	D	138	MLY	CD-CE-NZ-CH2
1	D	190	MLY	CD-CE-NZ-CH1
1	D	190	MLY	CD-CE-NZ-CH2
1	D	248	MLY	CD-CE-NZ-CH2
1	D	272	MLY	CD-CE-NZ-CH1
1	D	348	MLY	CD-CE-NZ-CH1
1	D	348	MLY	CD-CE-NZ-CH2
1	D	353	MLY	CD-CE-NZ-CH1
1	D	353	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH1
1	D	385	MLY	CD-CE-NZ-CH1
1	D	385	MLY	CD-CE-NZ-CH2
1	D	431	MLY	CD-CE-NZ-CH1
1	D	505	MLY	CD-CE-NZ-CH1
1	D	505	MLY	CD-CE-NZ-CH2
1	D	528	MLY	CD-CE-NZ-CH1
1	D	528	MLY	CD-CE-NZ-CH2
1	D	553	MLY	CD-CE-NZ-CH2
1	D	600	MLY	CD-CE-NZ-CH1
1	D	659	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH1
1	D	782	MLY	CD-CE-NZ-CH1
1	D	837	MLY	CD-CE-NZ-CH1
1	D	839	MLY	CD-CE-NZ-CH2
1	G	59	MLY	CD-CE-NZ-CH1
1	G	59	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	63	MLY	CD-CE-NZ-CH1
1	G	84	MLY	CD-CE-NZ-CH2
1	G	130	MLY	CD-CE-NZ-CH1
1	G	130	MLY	CD-CE-NZ-CH2
1	G	138	MLY	CD-CE-NZ-CH1
1	G	138	MLY	CD-CE-NZ-CH2
1	G	190	MLY	CD-CE-NZ-CH1
1	G	190	MLY	CD-CE-NZ-CH2
1	G	248	MLY	CD-CE-NZ-CH2
1	G	272	MLY	CD-CE-NZ-CH1
1	G	348	MLY	CD-CE-NZ-CH1
1	G	348	MLY	CD-CE-NZ-CH2
1	G	353	MLY	CD-CE-NZ-CH1
1	G	353	MLY	CD-CE-NZ-CH2
1	G	367	MLY	CD-CE-NZ-CH1
1	G	385	MLY	CD-CE-NZ-CH1
1	G	385	MLY	CD-CE-NZ-CH2
1	G	431	MLY	CD-CE-NZ-CH1
1	G	505	MLY	CD-CE-NZ-CH1
1	G	505	MLY	CD-CE-NZ-CH2
1	G	528	MLY	CD-CE-NZ-CH1
1	G	528	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH2
1	G	600	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH2
1	G	768	MLY	CD-CE-NZ-CH1
1	G	782	MLY	CD-CE-NZ-CH1
1	G	837	MLY	CD-CE-NZ-CH1
1	G	839	MLY	CD-CE-NZ-CH2
1	J	55	MLY	CD-CE-NZ-CH2
1	J	59	MLY	CD-CE-NZ-CH1
1	J	59	MLY	CD-CE-NZ-CH2
1	J	63	MLY	CD-CE-NZ-CH1
1	J	84	MLY	CD-CE-NZ-CH2
1	J	130	MLY	CD-CE-NZ-CH1
1	J	130	MLY	CD-CE-NZ-CH2
1	J	138	MLY	CD-CE-NZ-CH1
1	J	138	MLY	CD-CE-NZ-CH2
1	J	190	MLY	CD-CE-NZ-CH1
1	J	190	MLY	CD-CE-NZ-CH2
1	J	248	MLY	CD-CE-NZ-CH2
1	J	272	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	J	348	MLY	CD-CE-NZ-CH1
1	J	348	MLY	CD-CE-NZ-CH2
1	J	353	MLY	CD-CE-NZ-CH1
1	J	353	MLY	CD-CE-NZ-CH2
1	J	367	MLY	CD-CE-NZ-CH1
1	J	385	MLY	CD-CE-NZ-CH1
1	J	385	MLY	CD-CE-NZ-CH2
1	J	431	MLY	CD-CE-NZ-CH1
1	J	505	MLY	CD-CE-NZ-CH1
1	J	505	MLY	CD-CE-NZ-CH2
1	J	528	MLY	CD-CE-NZ-CH1
1	J	528	MLY	CD-CE-NZ-CH2
1	J	553	MLY	CD-CE-NZ-CH2
1	J	600	MLY	CD-CE-NZ-CH1
1	J	659	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH1
1	J	782	MLY	CD-CE-NZ-CH1
1	J	837	MLY	CD-CE-NZ-CH1
1	J	839	MLY	CD-CE-NZ-CH2
1	M	55	MLY	CD-CE-NZ-CH2
1	M	59	MLY	CD-CE-NZ-CH1
1	M	59	MLY	CD-CE-NZ-CH2
1	M	63	MLY	CD-CE-NZ-CH1
1	M	84	MLY	CD-CE-NZ-CH2
1	M	130	MLY	CD-CE-NZ-CH1
1	M	130	MLY	CD-CE-NZ-CH2
1	M	138	MLY	CD-CE-NZ-CH1
1	M	138	MLY	CD-CE-NZ-CH2
1	M	190	MLY	CD-CE-NZ-CH1
1	M	190	MLY	CD-CE-NZ-CH2
1	M	248	MLY	CD-CE-NZ-CH2
1	M	272	MLY	CD-CE-NZ-CH1
1	M	348	MLY	CD-CE-NZ-CH1
1	M	348	MLY	CD-CE-NZ-CH2
1	M	353	MLY	CD-CE-NZ-CH1
1	M	353	MLY	CD-CE-NZ-CH2
1	M	367	MLY	CD-CE-NZ-CH1
1	M	385	MLY	CD-CE-NZ-CH1
1	M	385	MLY	CD-CE-NZ-CH2
1	M	431	MLY	CD-CE-NZ-CH1
1	M	505	MLY	CD-CE-NZ-CH1
1	M	505	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	M	528	MLY	CD-CE-NZ-CH1
1	M	528	MLY	CD-CE-NZ-CH2
1	M	553	MLY	CD-CE-NZ-CH2
1	M	600	MLY	CD-CE-NZ-CH1
1	M	659	MLY	CD-CE-NZ-CH2
1	M	768	MLY	CD-CE-NZ-CH1
1	M	782	MLY	CD-CE-NZ-CH1
1	M	837	MLY	CD-CE-NZ-CH1
1	M	839	MLY	CD-CE-NZ-CH2
1	P	55	MLY	CD-CE-NZ-CH2
1	P	59	MLY	CD-CE-NZ-CH1
1	P	59	MLY	CD-CE-NZ-CH2
1	P	63	MLY	CD-CE-NZ-CH1
1	P	84	MLY	CD-CE-NZ-CH2
1	P	130	MLY	CD-CE-NZ-CH1
1	P	130	MLY	CD-CE-NZ-CH2
1	P	138	MLY	CD-CE-NZ-CH1
1	P	138	MLY	CD-CE-NZ-CH2
1	P	190	MLY	CD-CE-NZ-CH1
1	P	190	MLY	CD-CE-NZ-CH2
1	P	248	MLY	CD-CE-NZ-CH2
1	P	272	MLY	CD-CE-NZ-CH1
1	P	348	MLY	CD-CE-NZ-CH1
1	P	348	MLY	CD-CE-NZ-CH2
1	P	353	MLY	CD-CE-NZ-CH1
1	P	353	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH1
1	P	385	MLY	CD-CE-NZ-CH1
1	P	385	MLY	CD-CE-NZ-CH2
1	P	431	MLY	CD-CE-NZ-CH1
1	P	505	MLY	CD-CE-NZ-CH1
1	P	505	MLY	CD-CE-NZ-CH2
1	P	528	MLY	CD-CE-NZ-CH1
1	P	528	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH2
1	P	600	MLY	CD-CE-NZ-CH1
1	P	659	MLY	CD-CE-NZ-CH2
1	P	768	MLY	CD-CE-NZ-CH1
1	P	782	MLY	CD-CE-NZ-CH1
1	P	837	MLY	CD-CE-NZ-CH1
1	P	839	MLY	CD-CE-NZ-CH2
1	G	87	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	M	87	MLY	CG-CD-CE-NZ
1	A	87	MLY	CG-CD-CE-NZ
1	D	87	MLY	CG-CD-CE-NZ
1	J	87	MLY	CG-CD-CE-NZ
1	P	87	MLY	CG-CD-CE-NZ
1	A	782	MLY	CG-CD-CE-NZ
1	D	782	MLY	CG-CD-CE-NZ
1	G	782	MLY	CG-CD-CE-NZ
1	J	782	MLY	CG-CD-CE-NZ
1	M	782	MLY	CG-CD-CE-NZ
1	P	782	MLY	CG-CD-CE-NZ
1	A	138	MLY	CG-CD-CE-NZ
1	D	138	MLY	CG-CD-CE-NZ
1	G	138	MLY	CG-CD-CE-NZ
1	J	138	MLY	CG-CD-CE-NZ
1	M	138	MLY	CG-CD-CE-NZ
1	P	138	MLY	CG-CD-CE-NZ
1	A	84	MLY	CG-CD-CE-NZ
1	A	130	MLY	CG-CD-CE-NZ
1	D	130	MLY	CG-CD-CE-NZ
1	G	84	MLY	CG-CD-CE-NZ
1	G	130	MLY	CG-CD-CE-NZ
1	J	84	MLY	CG-CD-CE-NZ
1	J	130	MLY	CG-CD-CE-NZ
1	M	84	MLY	CG-CD-CE-NZ
1	M	130	MLY	CG-CD-CE-NZ
1	P	84	MLY	CG-CD-CE-NZ
1	P	130	MLY	CG-CD-CE-NZ
1	A	272	MLY	CD-CE-NZ-CH2
1	A	369	MLY	CD-CE-NZ-CH2
1	A	504	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH2
1	D	272	MLY	CD-CE-NZ-CH2
1	D	369	MLY	CD-CE-NZ-CH2
1	D	504	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH2
1	G	272	MLY	CD-CE-NZ-CH2
1	G	369	MLY	CD-CE-NZ-CH2
1	G	504	MLY	CD-CE-NZ-CH1
1	G	504	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	768	MLY	CD-CE-NZ-CH2
1	J	369	MLY	CD-CE-NZ-CH2
1	J	504	MLY	CD-CE-NZ-CH1
1	J	504	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH2
1	M	369	MLY	CD-CE-NZ-CH2
1	M	504	MLY	CD-CE-NZ-CH1
1	M	504	MLY	CD-CE-NZ-CH2
1	M	768	MLY	CD-CE-NZ-CH2
1	P	369	MLY	CD-CE-NZ-CH2
1	P	504	MLY	CD-CE-NZ-CH1
1	P	504	MLY	CD-CE-NZ-CH2
1	P	768	MLY	CD-CE-NZ-CH2
1	D	84	MLY	CG-CD-CE-NZ
1	A	681	MLY	CG-CD-CE-NZ
1	D	681	MLY	CG-CD-CE-NZ
1	G	504	MLY	CG-CD-CE-NZ
1	G	681	MLY	CG-CD-CE-NZ
1	J	681	MLY	CG-CD-CE-NZ
1	A	504	MLY	CG-CD-CE-NZ
1	J	504	MLY	CG-CD-CE-NZ
1	M	504	MLY	CG-CD-CE-NZ
1	M	681	MLY	CG-CD-CE-NZ
1	P	504	MLY	CG-CD-CE-NZ
1	P	681	MLY	CG-CD-CE-NZ
1	D	504	MLY	CG-CD-CE-NZ
1	A	598	MLY	CG-CD-CE-NZ
1	G	598	MLY	CG-CD-CE-NZ
1	J	598	MLY	CG-CD-CE-NZ
1	M	598	MLY	CG-CD-CE-NZ
1	P	598	MLY	CG-CD-CE-NZ
1	D	598	MLY	CG-CD-CE-NZ
1	A	63	MLY	CD-CE-NZ-CH2
1	D	63	MLY	CD-CE-NZ-CH2
1	D	87	MLY	CD-CE-NZ-CH1
1	G	63	MLY	CD-CE-NZ-CH2
1	J	63	MLY	CD-CE-NZ-CH2
1	J	87	MLY	CD-CE-NZ-CH1
1	M	63	MLY	CD-CE-NZ-CH2
1	M	87	MLY	CD-CE-NZ-CH1
1	P	63	MLY	CD-CE-NZ-CH2
1	P	87	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	P	272	MLY	CD-CE-NZ-CH2
1	A	87	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH2
1	A	553	MLY	CD-CE-NZ-CH1
1	D	55	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH2
1	D	553	MLY	CD-CE-NZ-CH1
1	G	55	MLY	CD-CE-NZ-CH1
1	G	87	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH1
1	J	272	MLY	CD-CE-NZ-CH2
1	J	415	MLY	CD-CE-NZ-CH1
1	J	415	MLY	CD-CE-NZ-CH2
1	J	553	MLY	CD-CE-NZ-CH1
1	M	55	MLY	CD-CE-NZ-CH1
1	M	272	MLY	CD-CE-NZ-CH2
1	M	415	MLY	CD-CE-NZ-CH1
1	M	415	MLY	CD-CE-NZ-CH2
1	M	553	MLY	CD-CE-NZ-CH1
1	P	55	MLY	CD-CE-NZ-CH1
1	P	415	MLY	CD-CE-NZ-CH1
1	P	415	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH1
1	A	295	MLY	CA-CB-CG-CD
1	D	295	MLY	CA-CB-CG-CD
1	G	295	MLY	CA-CB-CG-CD
1	J	295	MLY	CA-CB-CG-CD
1	M	295	MLY	CA-CB-CG-CD
1	P	295	MLY	CA-CB-CG-CD
1	A	551	MLY	CG-CD-CE-NZ
1	D	551	MLY	CG-CD-CE-NZ
1	G	551	MLY	CG-CD-CE-NZ
1	M	551	MLY	CG-CD-CE-NZ
1	P	551	MLY	CG-CD-CE-NZ
1	J	551	MLY	CG-CD-CE-NZ
1	A	19	MLY	CD-CE-NZ-CH2
1	A	55	MLY	CD-CE-NZ-CH1
1	D	19	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	19	MLY	CD-CE-NZ-CH2
1	J	19	MLY	CD-CE-NZ-CH2
1	J	55	MLY	CD-CE-NZ-CH1
1	M	19	MLY	CD-CE-NZ-CH2
1	P	19	MLY	CD-CE-NZ-CH2
1	P	107	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CA-CB-CG-CD
1	A	768	MLY	CA-CB-CG-CD
1	D	504	MLY	CA-CB-CG-CD
1	D	768	MLY	CA-CB-CG-CD
1	G	504	MLY	CA-CB-CG-CD
1	G	768	MLY	CA-CB-CG-CD
1	J	504	MLY	CA-CB-CG-CD
1	J	768	MLY	CA-CB-CG-CD
1	M	504	MLY	CA-CB-CG-CD
1	M	768	MLY	CA-CB-CG-CD
1	P	504	MLY	CA-CB-CG-CD
1	P	768	MLY	CA-CB-CG-CD
1	D	49	MLY	CE-CD-CG-CB
1	P	49	MLY	CE-CD-CG-CB
1	A	49	MLY	CE-CD-CG-CB
1	A	505	MLY	CE-CD-CG-CB
1	D	505	MLY	CE-CD-CG-CB
1	G	49	MLY	CE-CD-CG-CB
1	G	505	MLY	CE-CD-CG-CB
1	J	49	MLY	CE-CD-CG-CB
1	J	505	MLY	CE-CD-CG-CB
1	M	49	MLY	CE-CD-CG-CB
1	M	505	MLY	CE-CD-CG-CB
1	P	505	MLY	CE-CD-CG-CB
1	A	272	MLY	CE-CD-CG-CB
1	D	272	MLY	CE-CD-CG-CB
1	G	272	MLY	CE-CD-CG-CB
1	G	296	MLY	CE-CD-CG-CB
1	J	272	MLY	CE-CD-CG-CB
1	J	296	MLY	CE-CD-CG-CB
1	M	272	MLY	CE-CD-CG-CB
1	M	296	MLY	CE-CD-CG-CB
1	P	272	MLY	CE-CD-CG-CB
1	A	30	MLY	CE-CD-CG-CB
1	A	296	MLY	CE-CD-CG-CB
1	D	30	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	296	MLY	CE-CD-CG-CB
1	G	30	MLY	CE-CD-CG-CB
1	J	30	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	M	30	MLY	CE-CD-CG-CB
1	M	353	MLY	CE-CD-CG-CB
1	P	296	MLY	CE-CD-CG-CB
1	P	353	MLY	CE-CD-CG-CB
1	P	30	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH1
1	D	107	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH1
1	J	839	MLY	CD-CE-NZ-CH1
1	M	107	MLY	CD-CE-NZ-CH1
1	A	190	MLY	CE-CD-CG-CB
1	A	353	MLY	CE-CD-CG-CB
1	D	190	MLY	CE-CD-CG-CB
1	D	353	MLY	CE-CD-CG-CB
1	G	190	MLY	CE-CD-CG-CB
1	G	353	MLY	CE-CD-CG-CB
1	P	190	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB
1	M	190	MLY	CE-CD-CG-CB
1	A	681	MLY	CE-CD-CG-CB
1	D	681	MLY	CE-CD-CG-CB
1	G	681	MLY	CE-CD-CG-CB
1	J	681	MLY	CE-CD-CG-CB
1	M	681	MLY	CE-CD-CG-CB
1	P	681	MLY	CE-CD-CG-CB
1	D	190	MLY	CG-CD-CE-NZ
1	J	190	MLY	CG-CD-CE-NZ
1	P	190	MLY	CG-CD-CE-NZ
1	D	768	MLY	CE-CD-CG-CB
1	G	190	MLY	CG-CD-CE-NZ
1	M	190	MLY	CG-CD-CE-NZ
1	J	768	MLY	CE-CD-CG-CB
1	M	768	MLY	CE-CD-CG-CB
1	A	768	MLY	CE-CD-CG-CB
1	G	768	MLY	CE-CD-CG-CB
1	P	768	MLY	CE-CD-CG-CB
1	A	190	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	A	369	MLY	CE-CD-CG-CB
1	A	782	MLY	CE-CD-CG-CB
1	D	369	MLY	CE-CD-CG-CB
1	D	782	MLY	CE-CD-CG-CB
1	G	369	MLY	CE-CD-CG-CB
1	G	782	MLY	CE-CD-CG-CB
1	J	369	MLY	CE-CD-CG-CB
1	J	782	MLY	CE-CD-CG-CB
1	M	369	MLY	CE-CD-CG-CB
1	P	369	MLY	CE-CD-CG-CB
1	P	782	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH2
1	A	839	MLY	CD-CE-NZ-CH1
1	D	659	MLY	CD-CE-NZ-CH1
1	D	839	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH1
1	G	839	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH2
1	J	659	MLY	CD-CE-NZ-CH1
1	M	107	MLY	CD-CE-NZ-CH2
1	M	659	MLY	CD-CE-NZ-CH1
1	M	839	MLY	CD-CE-NZ-CH1
1	P	107	MLY	CD-CE-NZ-CH2
1	P	659	MLY	CD-CE-NZ-CH1
1	P	839	MLY	CD-CE-NZ-CH1
1	M	782	MLY	CE-CD-CG-CB
1	A	415	MLY	CA-CB-CG-CD
1	G	415	MLY	CA-CB-CG-CD
1	J	415	MLY	CA-CB-CG-CD
1	M	415	MLY	CA-CB-CG-CD
1	P	415	MLY	CA-CB-CG-CD
1	D	415	MLY	CA-CB-CG-CD
1	A	236	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH1
1	D	107	MLY	CD-CE-NZ-CH2
1	D	236	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH1
1	J	236	MLY	CD-CE-NZ-CH1
1	M	236	MLY	CD-CE-NZ-CH1
1	P	236	MLY	CD-CE-NZ-CH1
1	A	55	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	J	55	MLY	CG-CD-CE-NZ
1	M	55	MLY	CG-CD-CE-NZ
1	D	833	MLY	CE-CD-CG-CB
1	M	833	MLY	CE-CD-CG-CB
1	P	833	MLY	CE-CD-CG-CB
1	D	55	MLY	CG-CD-CE-NZ
1	G	55	MLY	CG-CD-CE-NZ
1	A	833	MLY	CE-CD-CG-CB
1	G	833	MLY	CE-CD-CG-CB
1	J	833	MLY	CE-CD-CG-CB
1	P	55	MLY	CG-CD-CE-NZ
1	G	617	MLY	CE-CD-CG-CB
1	M	617	MLY	CE-CD-CG-CB
1	A	436	MLY	CA-CB-CG-CD
1	D	436	MLY	CA-CB-CG-CD
1	G	436	MLY	CA-CB-CG-CD
1	J	436	MLY	CA-CB-CG-CD
1	M	436	MLY	CA-CB-CG-CD
1	P	436	MLY	CA-CB-CG-CD
1	D	617	MLY	CE-CD-CG-CB
1	J	617	MLY	CE-CD-CG-CB
1	P	617	MLY	CE-CD-CG-CB
1	A	617	MLY	CE-CD-CG-CB
1	G	551	MLY	CE-CD-CG-CB
1	J	551	MLY	CE-CD-CG-CB
1	M	551	MLY	CE-CD-CG-CB
1	P	551	MLY	CE-CD-CG-CB
1	A	551	MLY	CE-CD-CG-CB
1	D	551	MLY	CE-CD-CG-CB
1	G	59	MLY	CE-CD-CG-CB
1	A	55	MLY	CE-CD-CG-CB
1	A	59	MLY	CE-CD-CG-CB
1	D	55	MLY	CE-CD-CG-CB
1	D	59	MLY	CE-CD-CG-CB
1	J	553	MLY	CE-CD-CG-CB
1	M	553	MLY	CE-CD-CG-CB
1	P	55	MLY	CE-CD-CG-CB
1	P	59	MLY	CE-CD-CG-CB
1	A	553	MLY	CE-CD-CG-CB
1	D	553	MLY	CE-CD-CG-CB
1	G	55	MLY	CE-CD-CG-CB
1	G	553	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	J	55	MLY	CE-CD-CG-CB
1	J	59	MLY	CE-CD-CG-CB
1	M	55	MLY	CE-CD-CG-CB
1	M	59	MLY	CE-CD-CG-CB
1	P	553	MLY	CE-CD-CG-CB
1	D	528	MLY	CG-CD-CE-NZ
1	G	528	MLY	CG-CD-CE-NZ
1	J	528	MLY	CG-CD-CE-NZ
1	M	528	MLY	CG-CD-CE-NZ
1	P	528	MLY	CG-CD-CE-NZ
1	A	528	MLY	CG-CD-CE-NZ
1	M	248	MLY	CG-CD-CE-NZ
1	J	248	MLY	CG-CD-CE-NZ
1	A	248	MLY	CG-CD-CE-NZ
1	G	248	MLY	CG-CD-CE-NZ
1	P	248	MLY	CG-CD-CE-NZ
1	A	431	MLY	CE-CD-CG-CB
1	P	431	MLY	CE-CD-CG-CB
1	D	248	MLY	CG-CD-CE-NZ
1	D	431	MLY	CE-CD-CG-CB
1	J	431	MLY	CE-CD-CG-CB
1	M	431	MLY	CE-CD-CG-CB
1	G	248	MLY	CE-CD-CG-CB
1	G	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB
1	D	248	MLY	CE-CD-CG-CB
1	M	248	MLY	CE-CD-CG-CB
1	P	248	MLY	CE-CD-CG-CB
1	P	35	MLY	CE-CD-CG-CB
1	A	35	MLY	CE-CD-CG-CB
1	D	35	MLY	CE-CD-CG-CB
1	G	35	MLY	CE-CD-CG-CB
1	J	35	MLY	CE-CD-CG-CB
1	M	35	MLY	CE-CD-CG-CB
1	A	431	MLY	CA-CB-CG-CD
1	D	431	MLY	CA-CB-CG-CD
1	G	431	MLY	CA-CB-CG-CD
1	J	431	MLY	CA-CB-CG-CD
1	M	431	MLY	CA-CB-CG-CD
1	P	431	MLY	CA-CB-CG-CD
1	A	837	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	D	837	MLY	CA-CB-CG-CD
1	G	837	MLY	CA-CB-CG-CD
1	J	837	MLY	CA-CB-CG-CD
1	M	837	MLY	CA-CB-CG-CD
1	P	837	MLY	CA-CB-CG-CD
1	A	600	MLY	CE-CD-CG-CB
1	J	436	MLY	CE-CD-CG-CB
1	J	598	MLY	CE-CD-CG-CB
1	M	600	MLY	CE-CD-CG-CB
1	A	436	MLY	CE-CD-CG-CB
1	A	598	MLY	CE-CD-CG-CB
1	D	436	MLY	CE-CD-CG-CB
1	D	598	MLY	CE-CD-CG-CB
1	D	600	MLY	CE-CD-CG-CB
1	G	436	MLY	CE-CD-CG-CB
1	G	598	MLY	CE-CD-CG-CB
1	G	600	MLY	CE-CD-CG-CB
1	J	600	MLY	CE-CD-CG-CB
1	M	436	MLY	CE-CD-CG-CB
1	M	598	MLY	CE-CD-CG-CB
1	P	436	MLY	CE-CD-CG-CB
1	P	598	MLY	CE-CD-CG-CB
1	P	600	MLY	CE-CD-CG-CB
1	A	486	MLY	CE-CD-CG-CB
1	J	236	MLY	CA-CB-CG-CD
1	M	236	MLY	CA-CB-CG-CD
1	P	236	MLY	CA-CB-CG-CD
1	D	486	MLY	CE-CD-CG-CB
1	G	486	MLY	CE-CD-CG-CB
1	J	486	MLY	CE-CD-CG-CB
1	M	486	MLY	CE-CD-CG-CB
1	P	486	MLY	CE-CD-CG-CB
1	A	236	MLY	CA-CB-CG-CD
1	A	833	MLY	CA-CB-CG-CD
1	D	236	MLY	CA-CB-CG-CD
1	D	833	MLY	CA-CB-CG-CD
1	G	236	MLY	CA-CB-CG-CD
1	G	833	MLY	CA-CB-CG-CD
1	J	833	MLY	CA-CB-CG-CD
1	M	833	MLY	CA-CB-CG-CD
1	P	833	MLY	CA-CB-CG-CD
1	P	839	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	839	MLY	CE-CD-CG-CB
1	G	839	MLY	CE-CD-CG-CB
1	J	839	MLY	CE-CD-CG-CB
1	M	839	MLY	CE-CD-CG-CB
1	A	839	MLY	CE-CD-CG-CB
1	A	138	MLY	CA-CB-CG-CD
1	A	296	MLY	CA-CB-CG-CD
1	D	138	MLY	CA-CB-CG-CD
1	G	138	MLY	CA-CB-CG-CD
1	G	296	MLY	CA-CB-CG-CD
1	J	138	MLY	CA-CB-CG-CD
1	J	296	MLY	CA-CB-CG-CD
1	M	138	MLY	CA-CB-CG-CD
1	M	296	MLY	CA-CB-CG-CD
1	P	138	MLY	CA-CB-CG-CD
1	P	296	MLY	CA-CB-CG-CD
1	A	63	MLY	C-CA-CB-CG
1	A	353	MLY	C-CA-CB-CG
1	A	827	MLY	C-CA-CB-CG
1	A	833	MLY	C-CA-CB-CG
1	D	63	MLY	C-CA-CB-CG
1	D	353	MLY	C-CA-CB-CG
1	D	827	MLY	C-CA-CB-CG
1	D	833	MLY	C-CA-CB-CG
1	G	63	MLY	C-CA-CB-CG
1	G	353	MLY	C-CA-CB-CG
1	G	827	MLY	C-CA-CB-CG
1	G	833	MLY	C-CA-CB-CG
1	J	63	MLY	C-CA-CB-CG
1	J	353	MLY	C-CA-CB-CG
1	J	827	MLY	C-CA-CB-CG
1	J	833	MLY	C-CA-CB-CG
1	M	63	MLY	C-CA-CB-CG
1	M	353	MLY	C-CA-CB-CG
1	M	827	MLY	C-CA-CB-CG
1	M	833	MLY	C-CA-CB-CG
1	P	63	MLY	C-CA-CB-CG
1	P	353	MLY	C-CA-CB-CG
1	P	827	MLY	C-CA-CB-CG
1	P	833	MLY	C-CA-CB-CG
1	D	296	MLY	CA-CB-CG-CD
1	A	35	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	A	63	MLY	N-CA-CB-CG
1	A	130	MLY	N-CA-CB-CG
1	A	348	MLY	N-CA-CB-CG
1	A	436	MLY	N-CA-CB-CG
1	A	681	MLY	N-CA-CB-CG
1	A	833	MLY	N-CA-CB-CG
1	A	837	MLY	N-CA-CB-CG
1	D	35	MLY	N-CA-CB-CG
1	D	63	MLY	N-CA-CB-CG
1	D	130	MLY	N-CA-CB-CG
1	D	436	MLY	N-CA-CB-CG
1	D	681	MLY	N-CA-CB-CG
1	D	833	MLY	N-CA-CB-CG
1	D	837	MLY	N-CA-CB-CG
1	G	35	MLY	N-CA-CB-CG
1	G	63	MLY	N-CA-CB-CG
1	G	130	MLY	N-CA-CB-CG
1	G	436	MLY	N-CA-CB-CG
1	G	681	MLY	N-CA-CB-CG
1	G	833	MLY	N-CA-CB-CG
1	G	837	MLY	N-CA-CB-CG
1	J	35	MLY	N-CA-CB-CG
1	J	63	MLY	N-CA-CB-CG
1	J	130	MLY	N-CA-CB-CG
1	J	436	MLY	N-CA-CB-CG
1	J	681	MLY	N-CA-CB-CG
1	J	833	MLY	N-CA-CB-CG
1	J	837	MLY	N-CA-CB-CG
1	M	35	MLY	N-CA-CB-CG
1	M	63	MLY	N-CA-CB-CG
1	M	130	MLY	N-CA-CB-CG
1	M	436	MLY	N-CA-CB-CG
1	M	681	MLY	N-CA-CB-CG
1	M	833	MLY	N-CA-CB-CG
1	M	837	MLY	N-CA-CB-CG
1	P	35	MLY	N-CA-CB-CG
1	P	63	MLY	N-CA-CB-CG
1	P	130	MLY	N-CA-CB-CG
1	P	436	MLY	N-CA-CB-CG
1	P	681	MLY	N-CA-CB-CG
1	P	833	MLY	N-CA-CB-CG
1	P	837	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	A	19	MLY	CA-CB-CG-CD
1	D	19	MLY	CA-CB-CG-CD
1	G	19	MLY	CA-CB-CG-CD
1	J	19	MLY	CA-CB-CG-CD
1	M	19	MLY	CA-CB-CG-CD
1	P	19	MLY	CA-CB-CG-CD
1	D	837	MLY	CE-CD-CG-CB
1	G	837	MLY	CE-CD-CG-CB
1	A	19	MLY	CE-CD-CG-CB
1	J	837	MLY	CE-CD-CG-CB
1	M	837	MLY	CE-CD-CG-CB
1	P	837	MLY	CE-CD-CG-CB
1	A	837	MLY	CE-CD-CG-CB
1	J	19	MLY	CE-CD-CG-CB
1	P	19	MLY	CE-CD-CG-CB
1	D	19	MLY	CE-CD-CG-CB
1	G	19	MLY	CE-CD-CG-CB
1	M	19	MLY	CE-CD-CG-CB
1	J	613	MLY	CE-CD-CG-CB
1	P	613	MLY	CE-CD-CG-CB
1	D	613	MLY	CE-CD-CG-CB
1	G	613	MLY	CE-CD-CG-CB
1	A	613	MLY	CE-CD-CG-CB
1	M	613	MLY	CE-CD-CG-CB
1	A	236	MLY	CD-CE-NZ-CH2
1	D	236	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH2
1	J	236	MLY	CD-CE-NZ-CH2
1	M	236	MLY	CD-CE-NZ-CH2
1	P	236	MLY	CD-CE-NZ-CH2
1	A	598	MLY	CD-CE-NZ-CH2
1	D	598	MLY	CD-CE-NZ-CH2
1	G	598	MLY	CD-CE-NZ-CH2
1	M	598	MLY	CD-CE-NZ-CH2
1	P	598	MLY	CD-CE-NZ-CH2
1	J	598	MLY	CD-CE-NZ-CH2
1	M	348	MLY	CE-CD-CG-CB
1	J	348	MLY	CE-CD-CG-CB
1	A	30	MLY	C-CA-CB-CG
1	A	617	MLY	C-CA-CB-CG
1	A	837	MLY	C-CA-CB-CG
1	D	30	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	D	617	MLY	C-CA-CB-CG
1	D	837	MLY	C-CA-CB-CG
1	G	30	MLY	C-CA-CB-CG
1	G	617	MLY	C-CA-CB-CG
1	G	837	MLY	C-CA-CB-CG
1	J	30	MLY	C-CA-CB-CG
1	J	617	MLY	C-CA-CB-CG
1	J	837	MLY	C-CA-CB-CG
1	M	30	MLY	C-CA-CB-CG
1	M	617	MLY	C-CA-CB-CG
1	M	837	MLY	C-CA-CB-CG
1	P	30	MLY	C-CA-CB-CG
1	P	617	MLY	C-CA-CB-CG
1	P	837	MLY	C-CA-CB-CG
1	P	348	MLY	CE-CD-CG-CB
1	G	348	MLY	CE-CD-CG-CB
1	A	348	MLY	CE-CD-CG-CB
1	D	348	MLY	CE-CD-CG-CB
1	A	30	MLY	CA-CB-CG-CD
1	D	30	MLY	CA-CB-CG-CD
1	G	30	MLY	CA-CB-CG-CD
1	M	30	MLY	CA-CB-CG-CD
1	P	30	MLY	CA-CB-CG-CD
1	J	30	MLY	CA-CB-CG-CD

There are no ring outliers.

185 monomers are involved in 731 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	415	MLY	1	0
1	G	63	MLY	3	0
1	M	348	MLY	5	0
1	D	827	MLY	2	0
1	P	839	MLY	9	0
1	A	764	MLY	9	0
1	J	107	MLY	3	0
1	J	553	MLY	12	0
1	G	764	MLY	19	0
1	D	295	MLY	6	0
1	D	107	MLY	3	0
1	M	600	MLY	1	0
1	M	30	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	296	MLY	3	0
1	J	598	MLY	1	0
1	M	59	MLY	2	0
1	J	295	MLY	6	0
1	G	837	MLY	1	0
1	D	600	MLY	1	0
1	G	272	MLY	1	0
1	P	138	MLY	2	0
1	D	30	MLY	1	0
1	G	617	MLY	1	0
1	P	837	MLY	1	0
1	G	87	MLY	3	0
1	M	486	MLY	3	0
1	P	272	MLY	1	0
1	D	528	MLY	3	0
1	J	504	MLY	1	0
1	M	617	MLY	1	0
1	D	598	MLY	1	0
1	M	782	MLY	3	0
1	A	553	MLY	17	0
1	J	190	MLY	2	0
1	M	528	MLY	2	0
1	D	63	MLY	3	0
1	A	504	MLY	4	0
1	G	30	MLY	1	0
1	A	659	MLY	2	0
1	G	55	MLY	1	0
1	A	55	MLY	1	0
1	J	63	MLY	3	0
1	P	764	MLY	9	0
1	G	138	MLY	2	0
1	P	415	MLY	1	0
1	A	63	MLY	3	0
1	D	764	MLY	10	0
1	A	505	MLY	35	0
1	A	49	MLY	3	0
1	D	617	MLY	1	0
1	G	190	MLY	2	0
1	M	248	MLY	2	0
1	J	837	MLY	1	0
1	J	839	MLY	8	0
1	D	659	MLY	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	782	MLY	1	0
1	P	248	MLY	2	0
1	P	600	MLY	1	0
1	G	49	MLY	4	0
1	P	782	MLY	1	0
1	P	30	MLY	1	0
1	A	87	MLY	3	0
1	J	505	MLY	9	0
1	D	436	MLY	2	0
1	M	87	MLY	3	0
1	D	553	MLY	18	0
1	G	248	MLY	2	0
1	P	59	MLY	3	0
1	M	768	MLY	3	0
1	J	272	MLY	1	0
1	J	55	MLY	1	0
1	M	107	MLY	3	0
1	P	768	MLY	2	0
1	P	295	MLY	6	0
1	G	486	MLY	3	0
1	P	528	MLY	3	0
1	G	415	MLY	1	0
1	P	486	MLY	3	0
1	J	348	MLY	5	0
1	M	295	MLY	6	0
1	M	598	MLY	1	0
1	A	617	MLY	1	0
1	A	272	MLY	1	0
1	J	369	MLY	1	0
1	P	598	MLY	1	0
1	G	59	MLY	2	0
1	G	768	MLY	5	0
1	J	782	MLY	1	0
1	J	296	MLY	3	0
1	J	659	MLY	2	0
1	G	504	MLY	1	0
1	J	59	MLY	3	0
1	D	837	MLY	1	0
1	J	138	MLY	2	0
1	J	415	MLY	1	0
1	A	59	MLY	3	0
1	G	84	MLY	22	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	87	MLY	3	0
1	A	436	MLY	2	0
1	G	348	MLY	5	0
1	G	598	MLY	1	0
1	J	248	MLY	2	0
1	A	295	MLY	6	0
1	D	248	MLY	2	0
1	A	138	MLY	2	0
1	A	600	MLY	1	0
1	A	415	MLY	1	0
1	G	505	MLY	1	0
1	A	837	MLY	3	0
1	P	617	MLY	1	0
1	D	839	MLY	4	0
1	G	659	MLY	2	0
1	A	348	MLY	6	0
1	P	87	MLY	2	0
1	M	504	MLY	1	0
1	J	30	MLY	1	0
1	A	486	MLY	3	0
1	D	59	MLY	3	0
1	J	764	MLY	4	0
1	M	659	MLY	1	0
1	P	659	MLY	2	0
1	A	248	MLY	2	0
1	J	768	MLY	6	0
1	D	504	MLY	1	0
1	P	107	MLY	3	0
1	D	138	MLY	2	0
1	A	30	MLY	1	0
1	G	436	MLY	2	0
1	G	528	MLY	2	0
1	G	553	MLY	27	0
1	D	190	MLY	2	0
1	D	55	MLY	1	0
1	M	63	MLY	4	0
1	P	436	MLY	2	0
1	M	505	MLY	1	0
1	M	49	MLY	3	0
1	D	551	MLY	2	0
1	J	84	MLY	27	0
1	J	528	MLY	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	P	296	MLY	2	0
1	D	782	MLY	88	0
1	M	55	MLY	1	0
1	A	782	MLY	7	0
1	A	768	MLY	18	0
1	D	49	MLY	3	0
1	P	190	MLY	2	0
1	J	600	MLY	1	0
1	A	528	MLY	3	0
1	M	296	MLY	3	0
1	A	551	MLY	2	0
1	A	296	MLY	3	0
1	M	272	MLY	1	0
1	D	296	MLY	2	0
1	A	598	MLY	1	0
1	J	486	MLY	3	0
1	M	839	MLY	8	0
1	D	272	MLY	1	0
1	J	436	MLY	2	0
1	D	486	MLY	3	0
1	P	553	MLY	3	0
1	P	369	MLY	1	0
1	D	369	MLY	1	0
1	P	504	MLY	1	0
1	M	553	MLY	12	0
1	A	190	MLY	2	0
1	M	837	MLY	1	0
1	G	107	MLY	3	0
1	M	190	MLY	2	0
1	P	348	MLY	4	0
1	G	839	MLY	4	0
1	M	138	MLY	2	0
1	A	839	MLY	4	0
1	P	63	MLY	4	0
1	G	295	MLY	6	0
1	P	49	MLY	3	0
1	D	348	MLY	5	0
1	M	764	MLY	1	0
1	J	49	MLY	3	0
1	M	436	MLY	2	0
1	G	600	MLY	1	0
1	A	107	MLY	3	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	87	MLY	3	0
1	M	415	MLY	1	0
1	P	55	MLY	1	0
1	J	617	MLY	1	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	M	6
1	P	6
1	D	4
1	A	4
1	J	3
1	G	3
3	F	1
3	I	1
3	L	1
3	O	1
3	R	1
2	H	1
2	E	1
2	K	1
2	N	1
2	Q	1

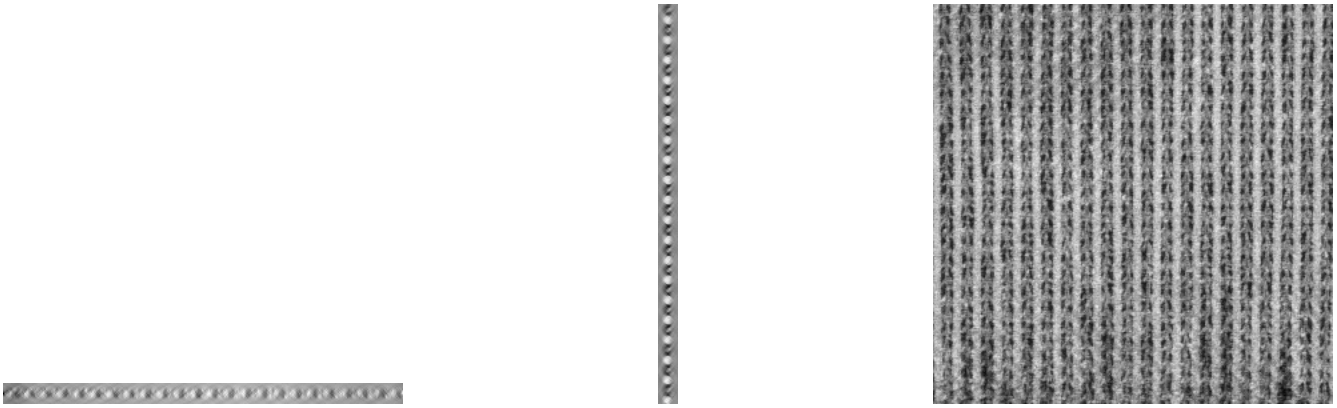
All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	769:ALA	C	770:GLY	N	5.52
1	D	769:ALA	C	770:GLY	N	5.23
1	G	769:ALA	C	770:GLY	N	4.70
1	A	709:LYS	C	710:GLY	N	3.41
1	D	709:LYS	C	710:GLY	N	3.08
1	A	769:ALA	C	770:GLY	N	2.95
1	F	4:LYS	C	5:ALA	N	2.61
1	I	4:LYS	C	5:ALA	N	2.61
1	L	4:LYS	C	5:ALA	N	2.61
1	O	4:LYS	C	5:ALA	N	2.61
1	R	4:LYS	C	5:ALA	N	2.61
1	M	786:ILE	C	787:ILE	N	2.48
1	M	769:ALA	C	770:GLY	N	2.39
1	P	786:ILE	C	787:ILE	N	2.30
1	P	709:LYS	C	710:GLY	N	2.16
1	M	709:LYS	C	710:GLY	N	2.04
1	M	805:ALA	C	806:MET	N	1.80
1	P	806:MET	C	807:VAL	N	1.67
1	P	805:ALA	C	806:MET	N	1.16
1	H	140:PHE	C	141:PRO	N	1.10
1	E	140:PHE	C	141:PRO	N	1.09
1	K	140:PHE	C	141:PRO	N	1.09
1	N	140:PHE	C	141:PRO	N	1.09
1	Q	140:PHE	C	141:PRO	N	1.09
1	A	637:LYS	C	638:GLY	N	1.06
1	D	637:LYS	C	638:GLY	N	1.06
1	G	637:LYS	C	638:GLY	N	1.06
1	J	637:LYS	C	638:GLY	N	1.06
1	M	637:LYS	C	638:GLY	N	1.06
1	P	637:LYS	C	638:GLY	N	1.05
1	A	649:VAL	C	650:SER	N	1.03
1	D	649:VAL	C	650:SER	N	1.03
1	G	649:VAL	C	650:SER	N	1.03
1	J	649:VAL	C	650:SER	N	1.03
1	M	649:VAL	C	650:SER	N	1.03
1	P	649:VAL	C	650:SER	N	1.03

6 Tomogram visualisation

This section contains visualisations of the EMDB entry EMD-1001. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

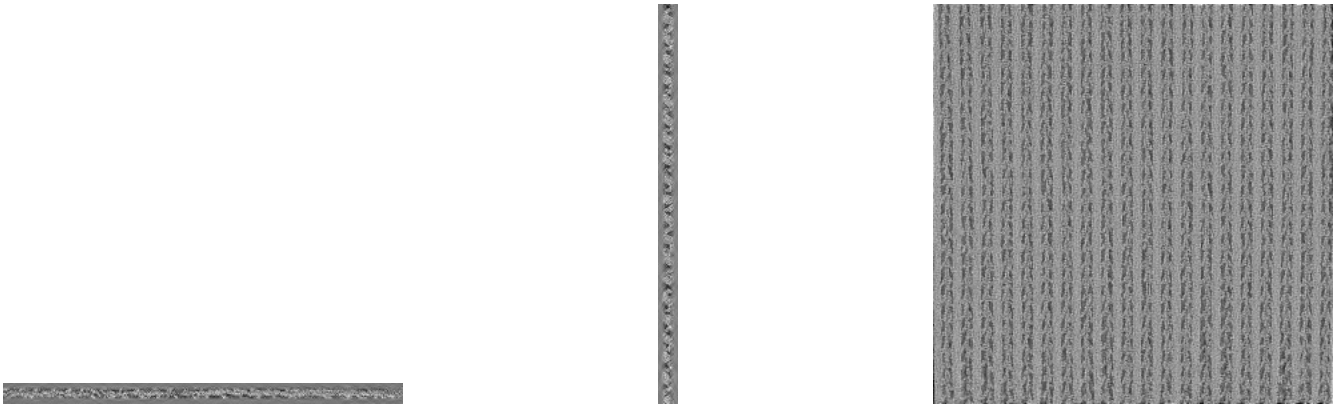
6.1 Orthogonal projections



X Y Z

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

6.2 Central slices



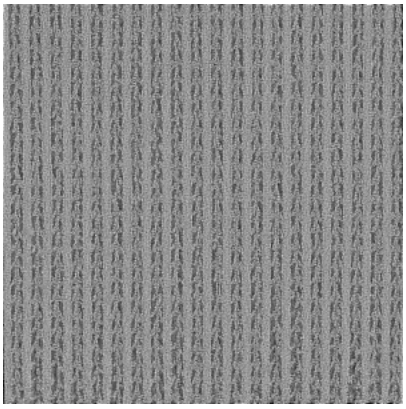
X Index: 300 Y Index: 300 Z Index: 15

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

6.3 Largest variance slices (i)

X Index: 598

Y Index: 598

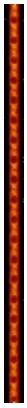


Z Index: 15

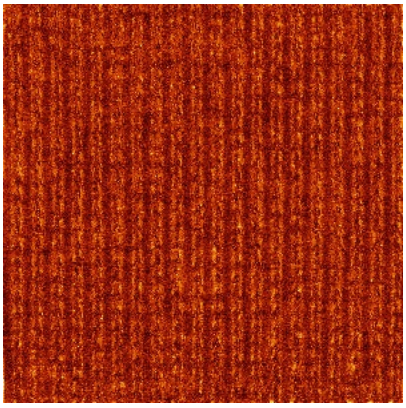
The images above show the largest variance slices of the tomogram in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

X



Y



Z

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

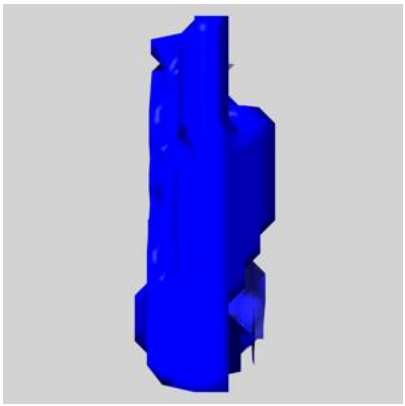
6.5 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

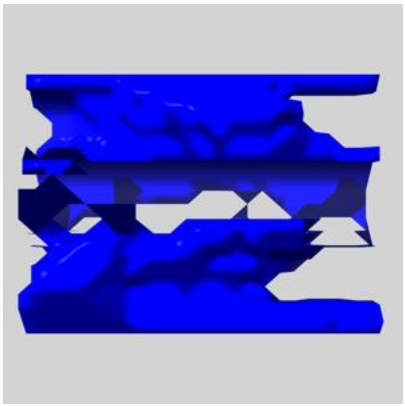
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

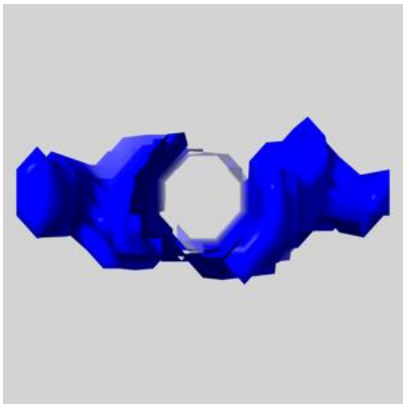
6.5.1 emd_1001_msk_25.map



X

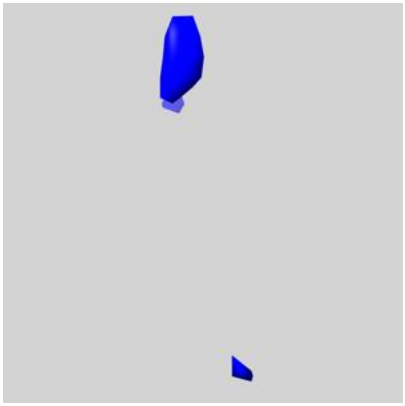


Y

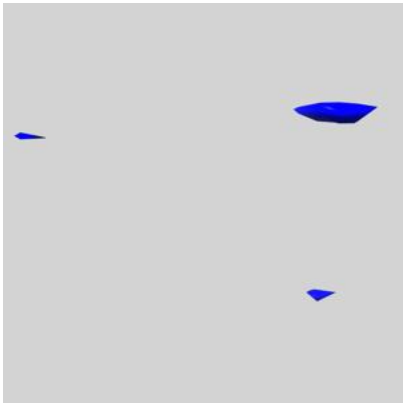


Z

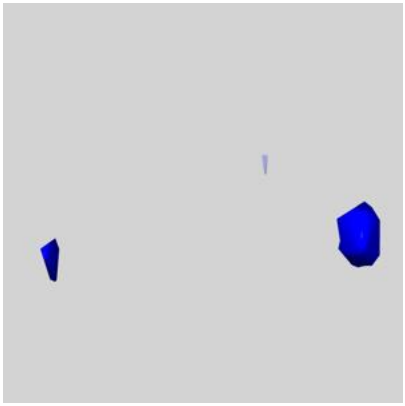
6.5.2 emd_1001_msk_24.map



X

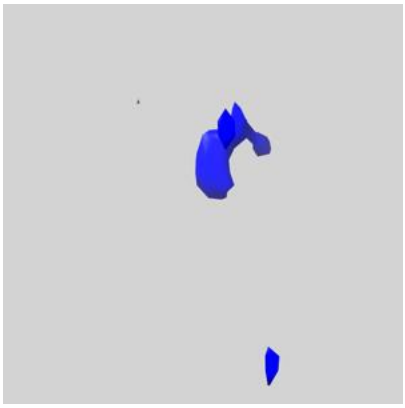


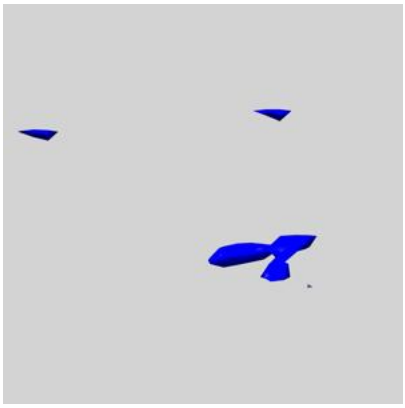
Y

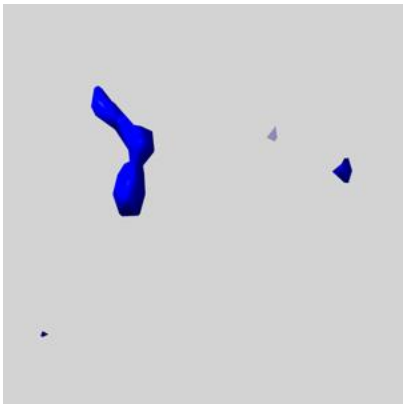


Z

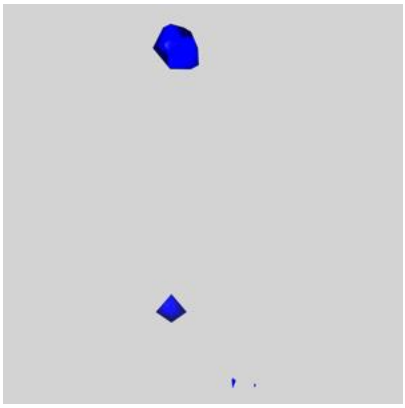
6.5.3 emd_1001_msk_23.map

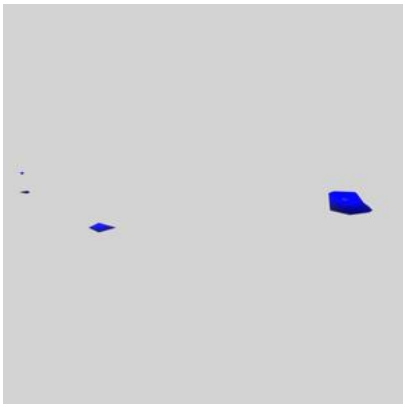

X

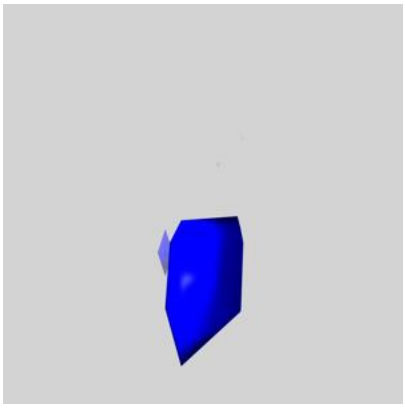

Y


Z

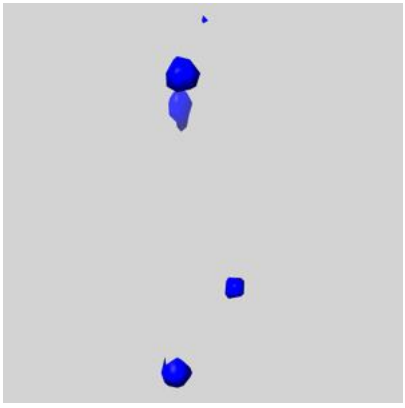
6.5.4 emd_1001_msk_22.map


X


Y


Z

6.5.5 emd_1001_msk_21.map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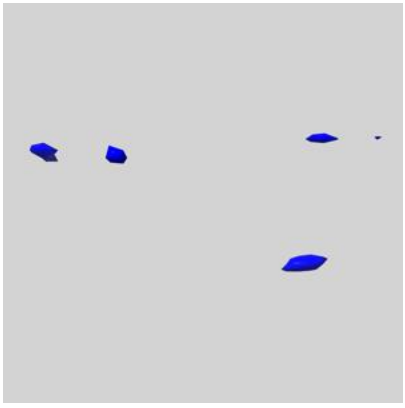
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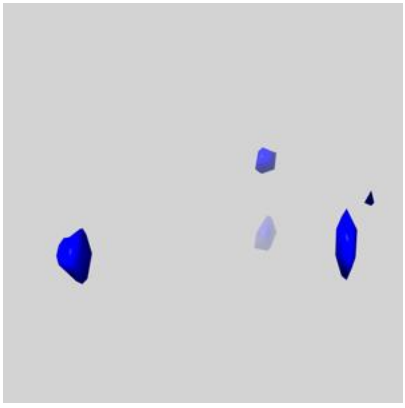
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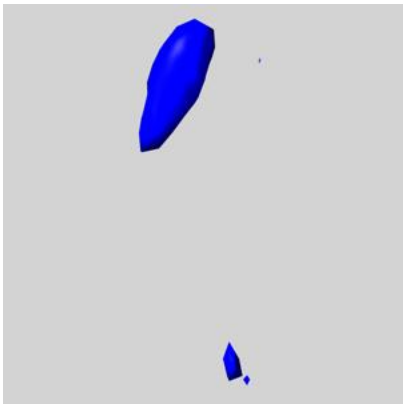
6.5.6 emd_1001_msk_20.map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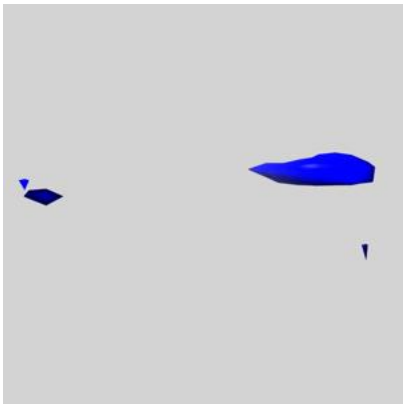
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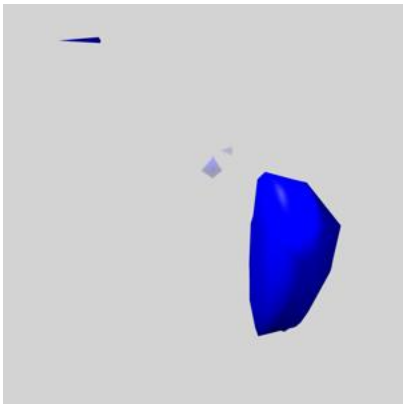
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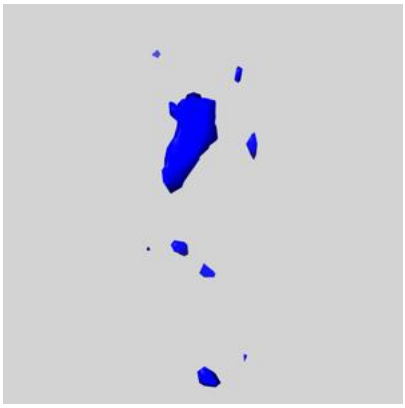
6.5.7 emd_1001_msk_19.map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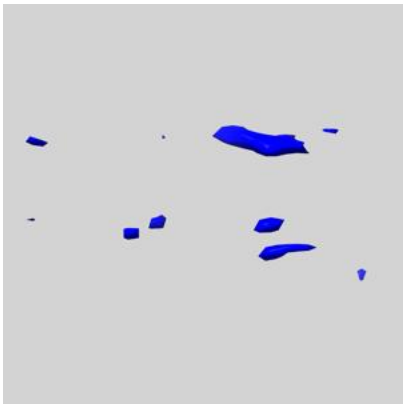
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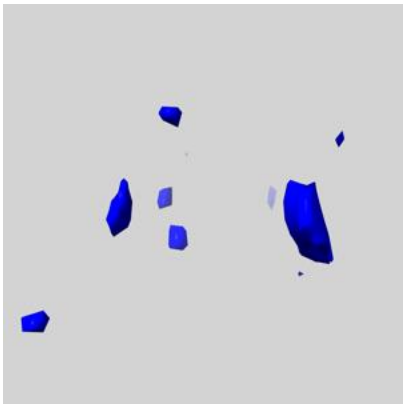
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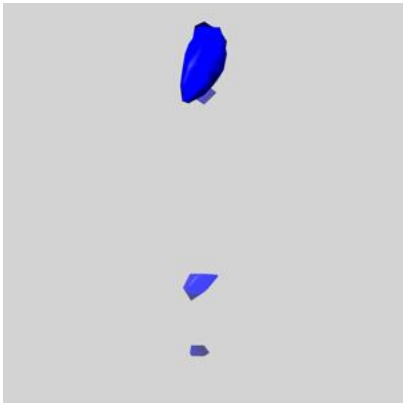
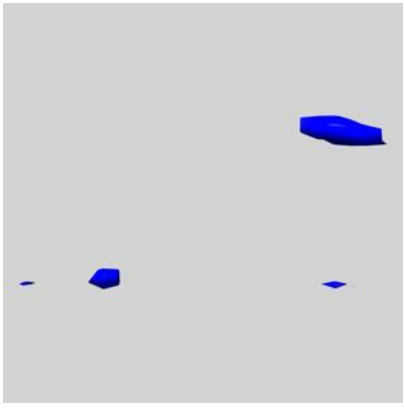
6.5.8 emd_1001_msk_18.map


X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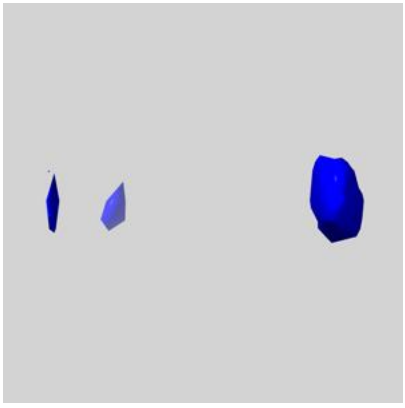
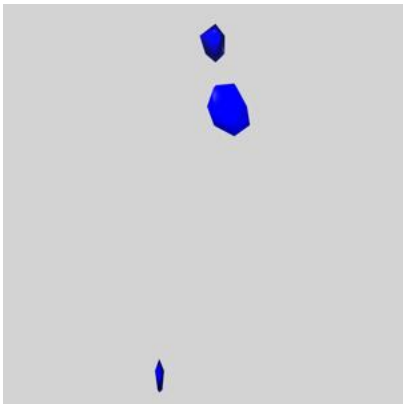
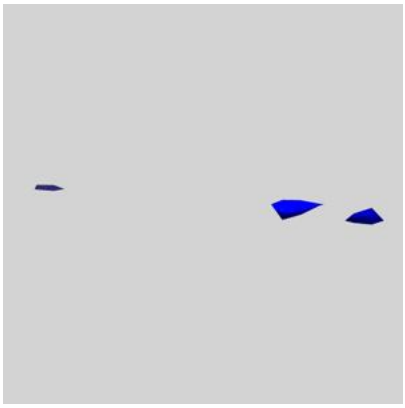

Z

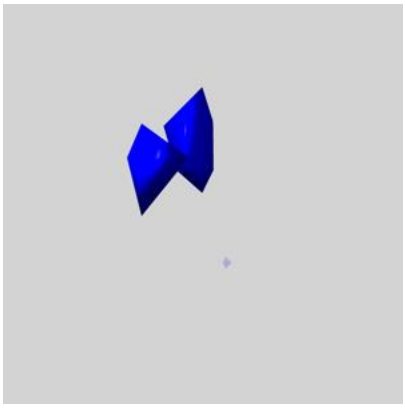
6.5.9 emd_1001_msk_17.map



X

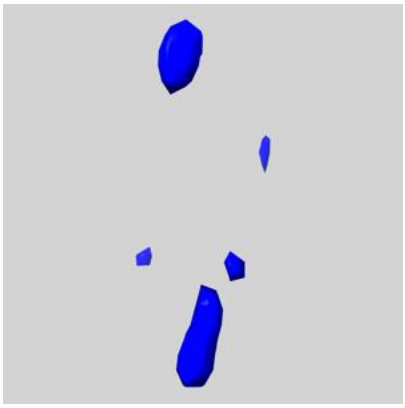


Y

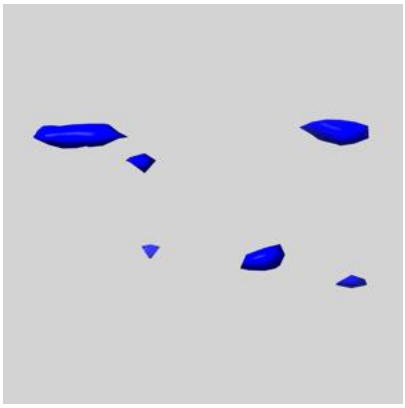


Z

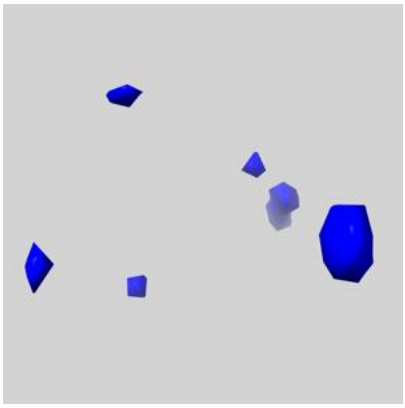
6.5.10 emd_1001_msk_16.map



X

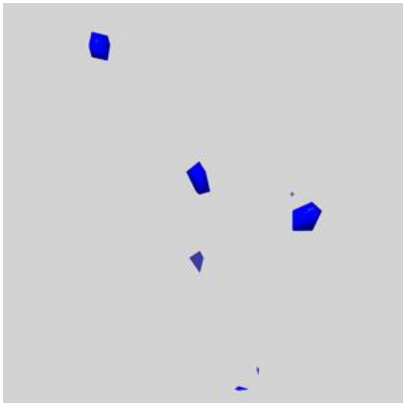


Y

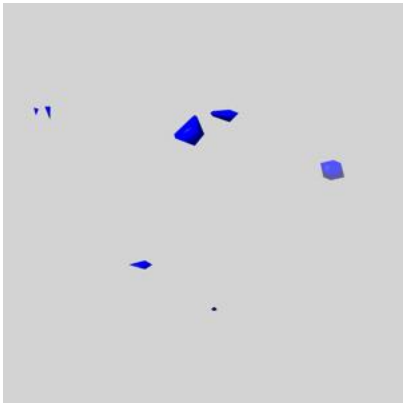


Z

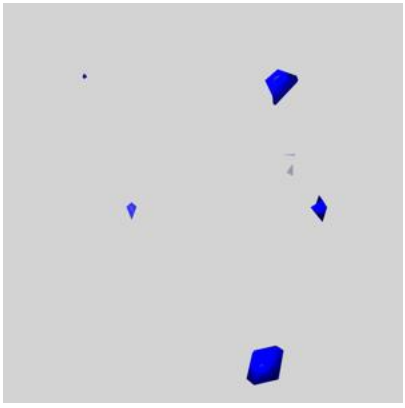
6.5.11 emd_1001_msk_15.map



X

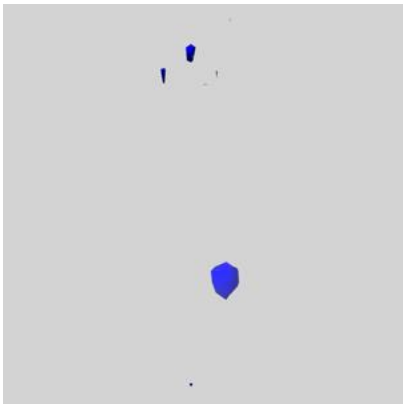


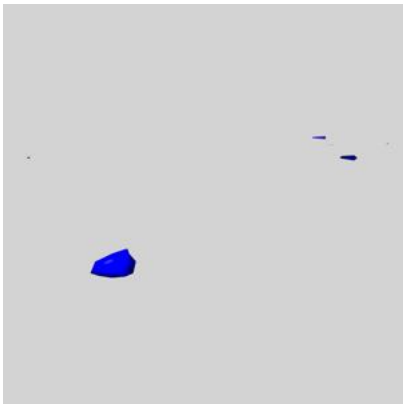
Y



Z

6.5.12 emd_1001_msk_14.map


X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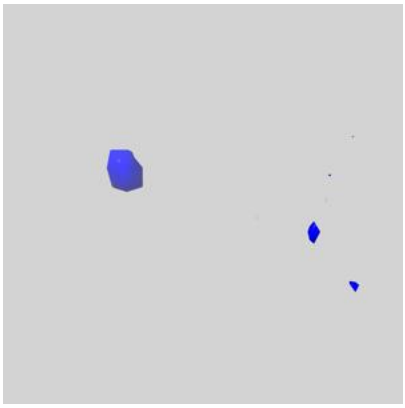
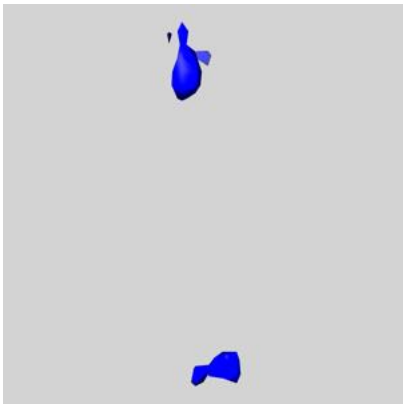
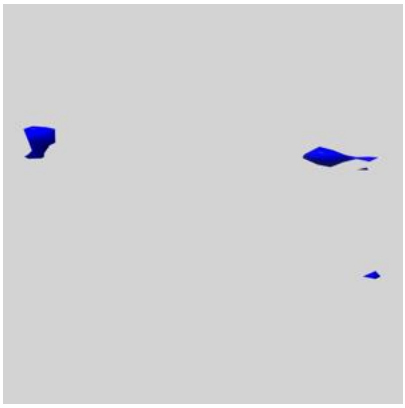

Z

6.5.13 emd_1001_msk_13.map


X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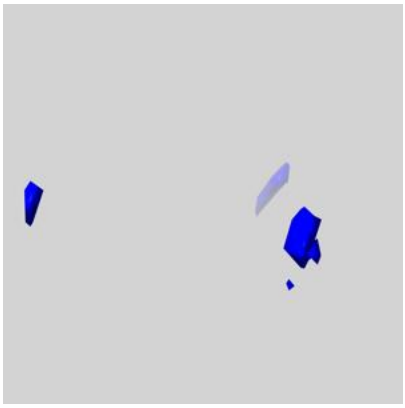
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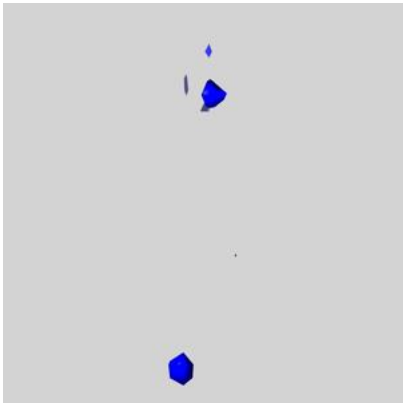
6.5.14 emd_1001_msk_12.map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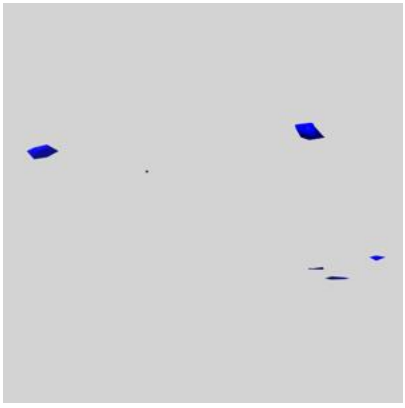
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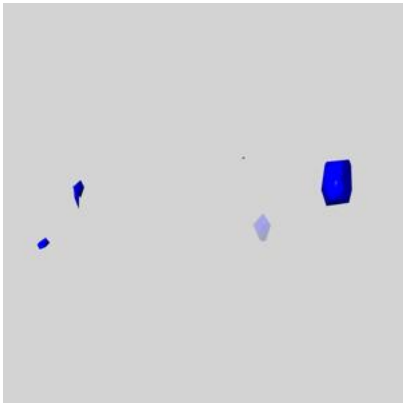
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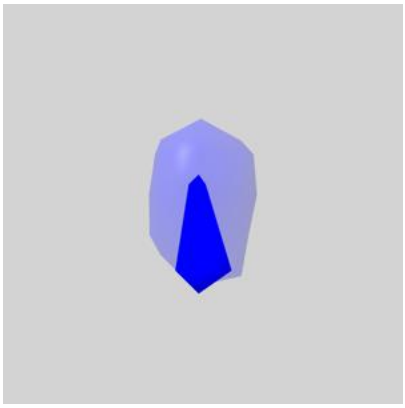
6.5.15 emd_1001_msk_11.map



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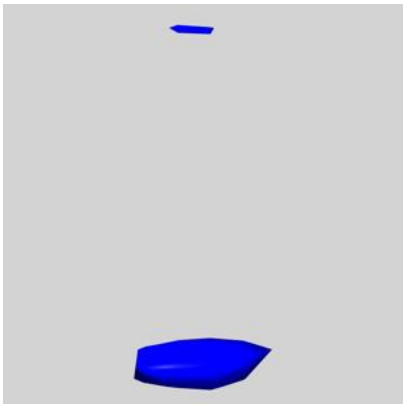

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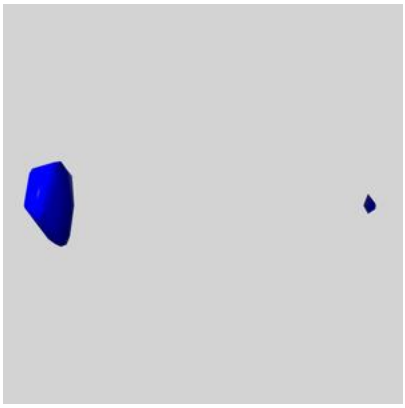

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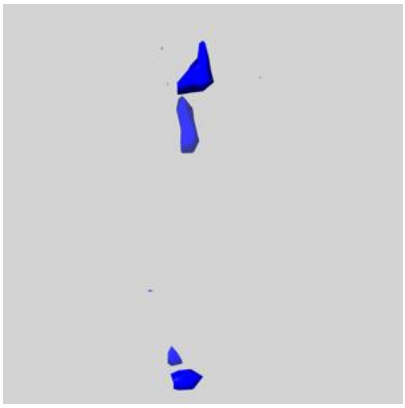
6.5.16 emd_1001_msk_10.map



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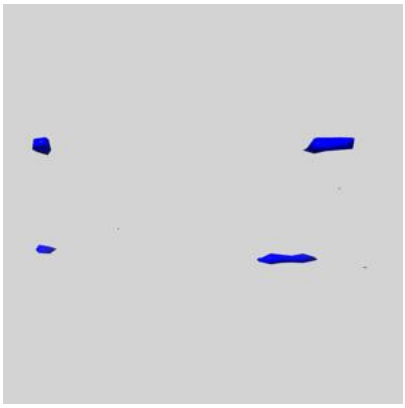

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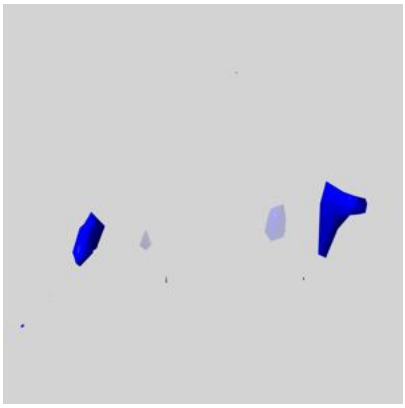

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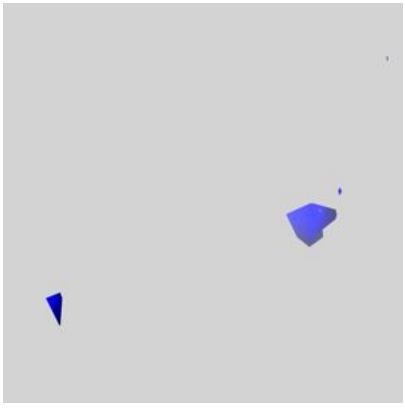
6.5.17 emd_1001_msk_9.map



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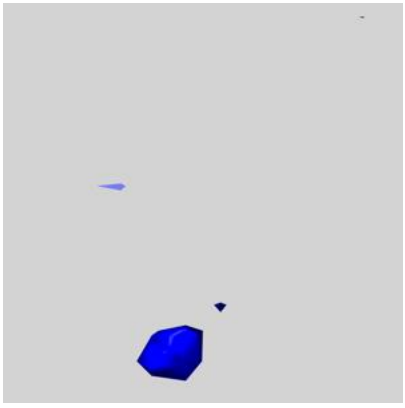

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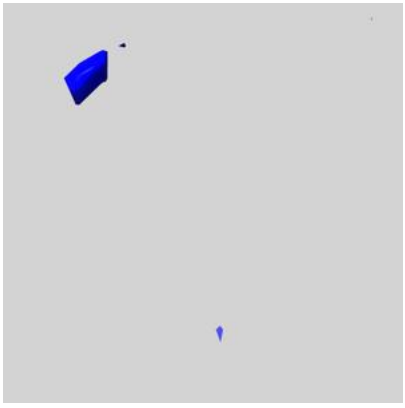

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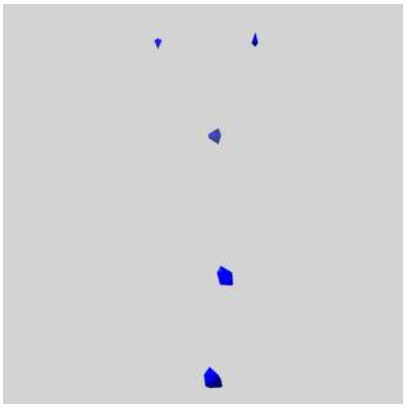
6.5.18 emd_1001_msk_8.map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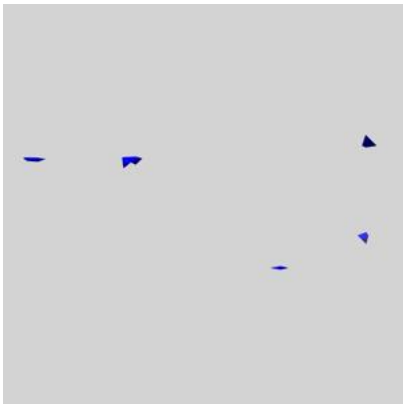
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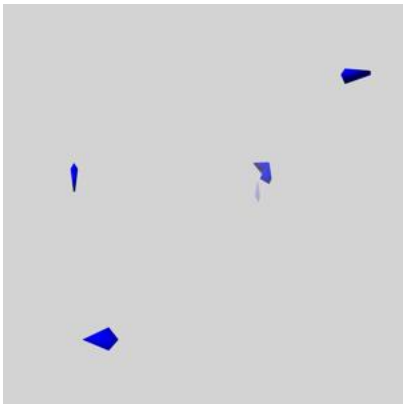
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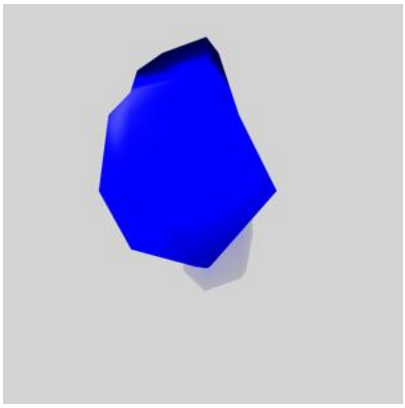
6.5.19 emd_1001_msk_7.map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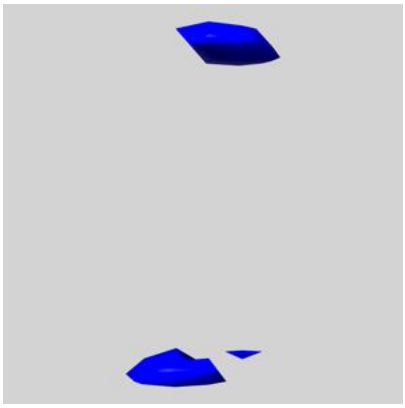
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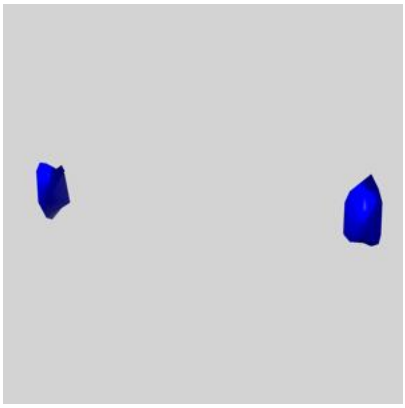
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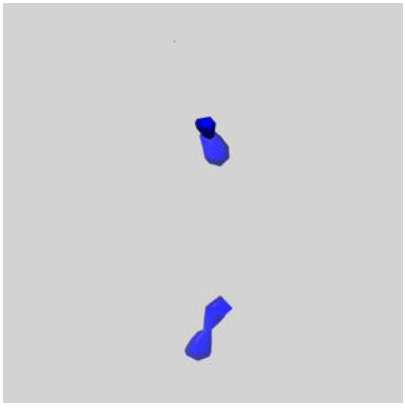
6.5.20 emd_1001_msk_6.map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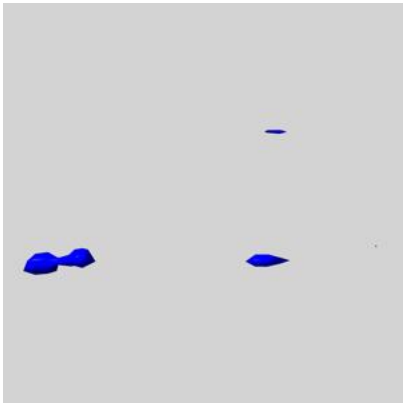
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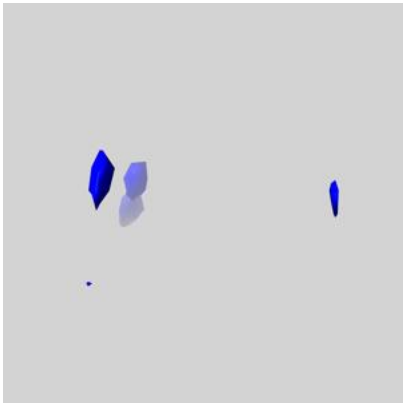
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6.5.21 emd_1001_msk_5.map

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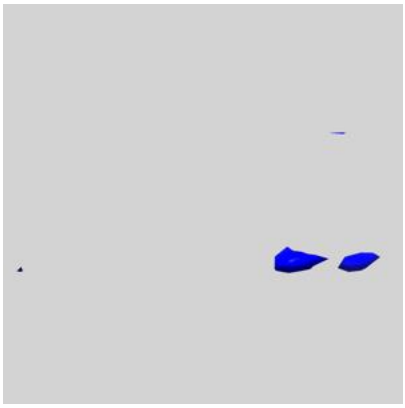
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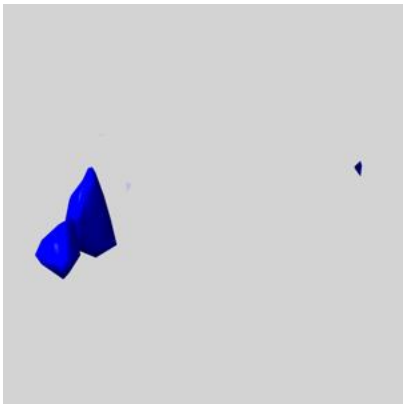
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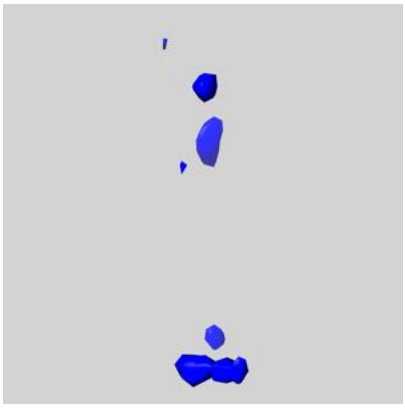
6.5.22 emd_1001_msk_4.map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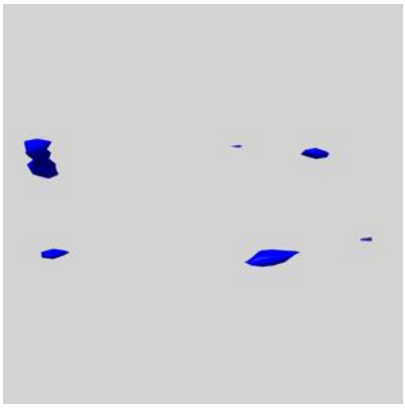
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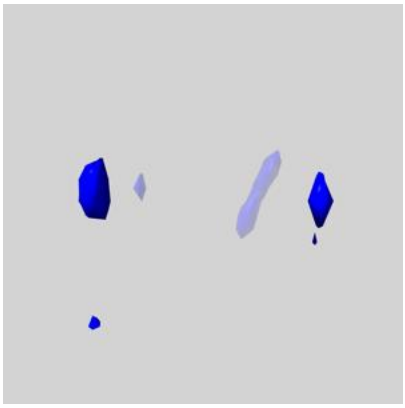
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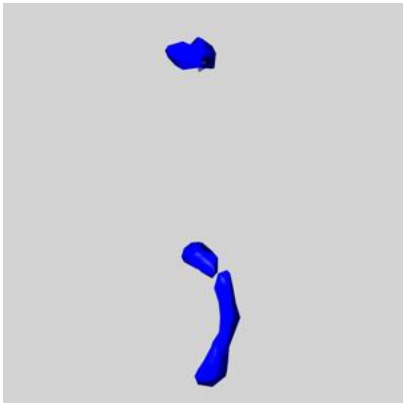
6.5.23 emd_1001_msk_3.map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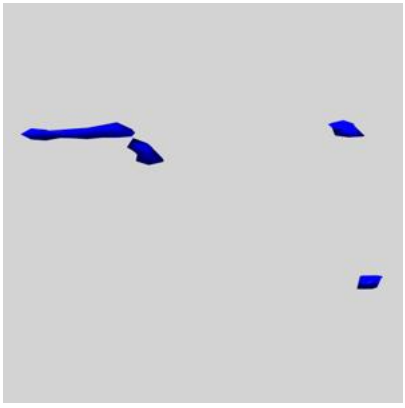
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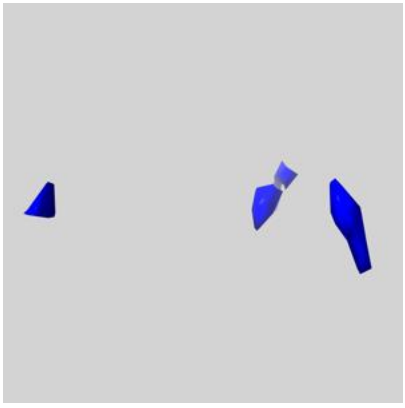
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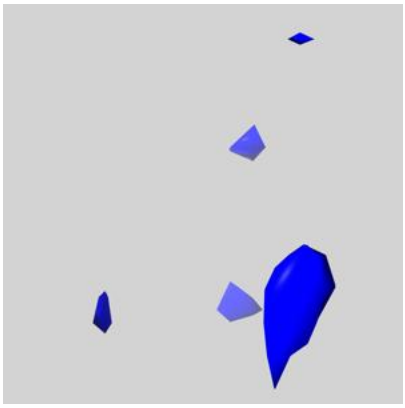
6.5.24 emd_1001_msk_2.map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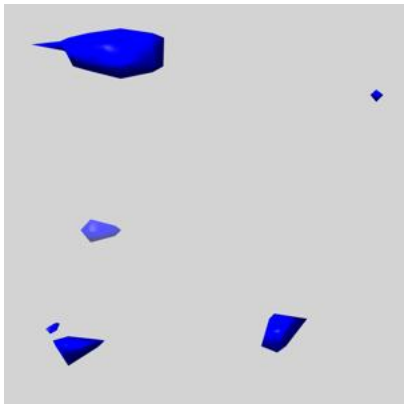
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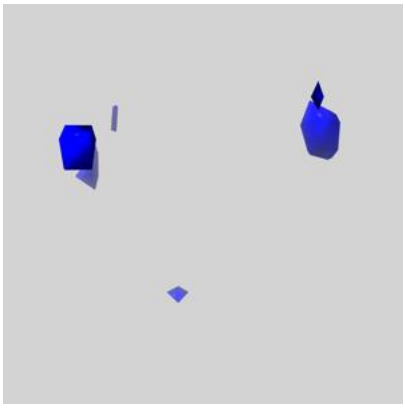
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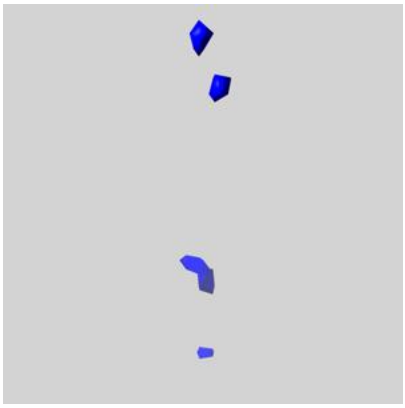
6.5.25 emd_1001_msk_1.map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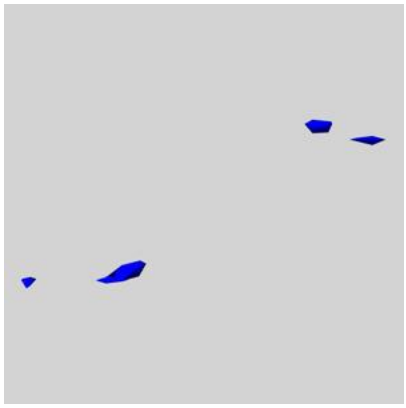
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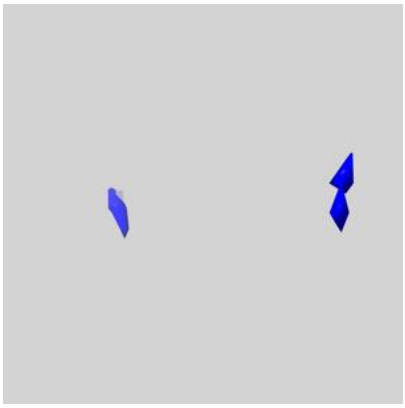
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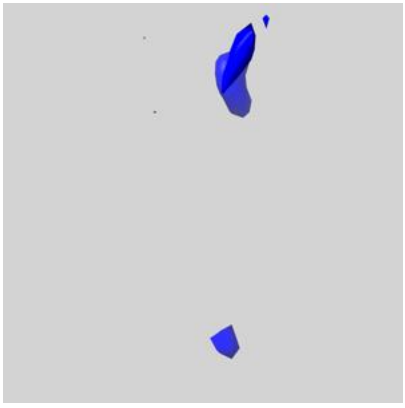
6.5.26 emd_1001_msk_26.map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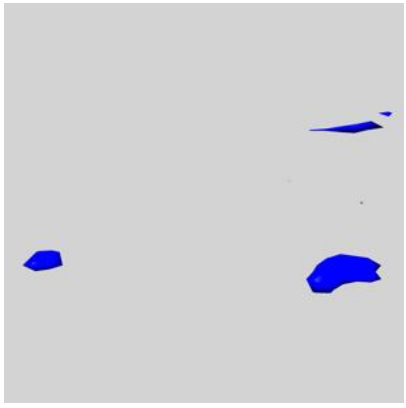
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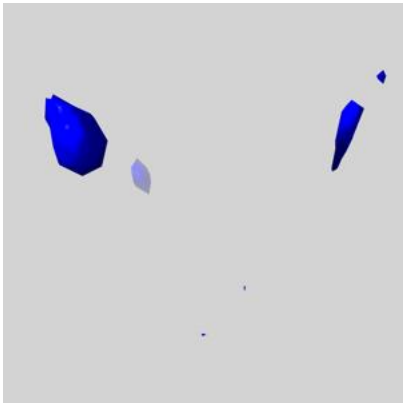
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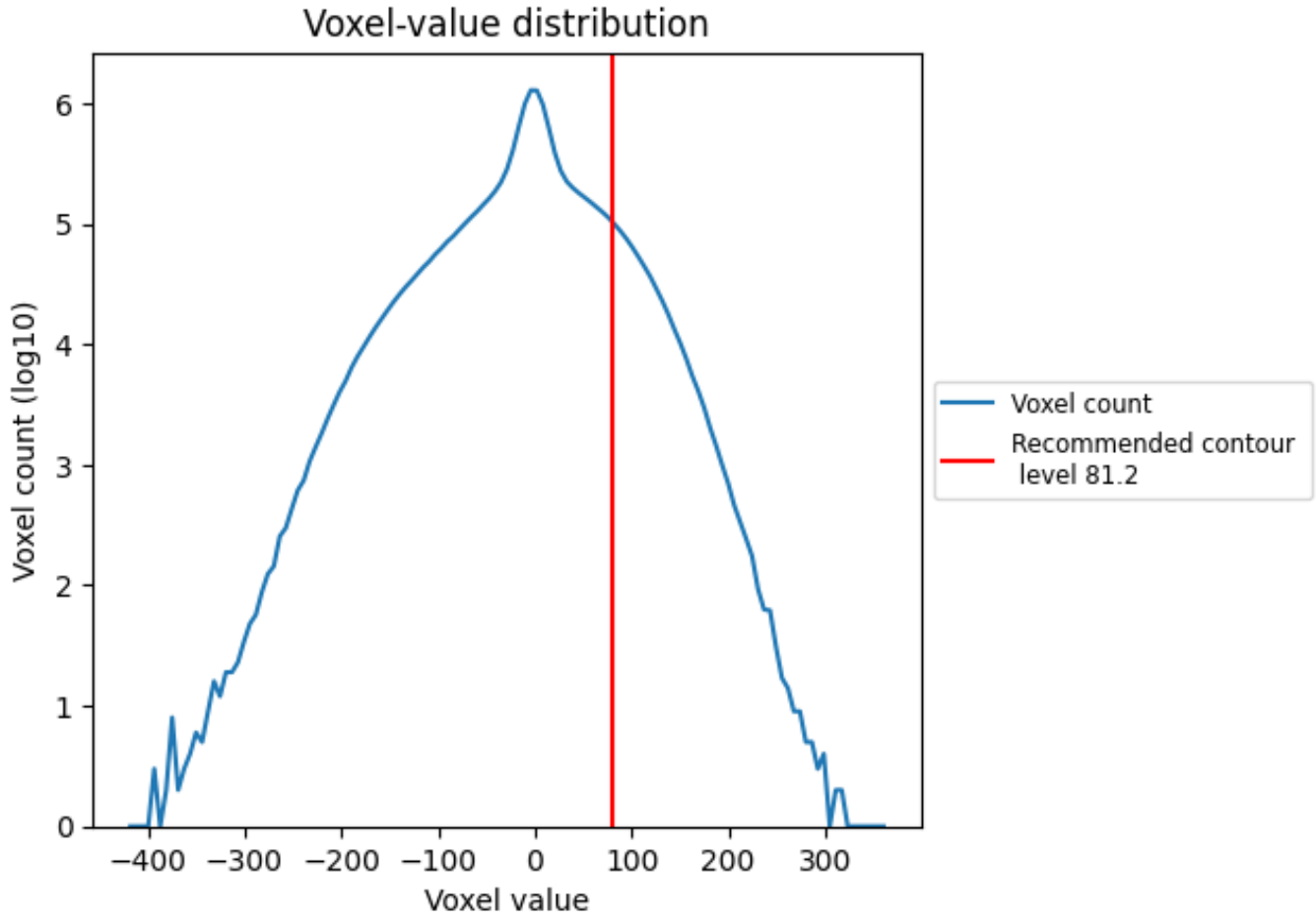
7 Tomogram analysis

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

7.1 Voxel-value distribution



The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.

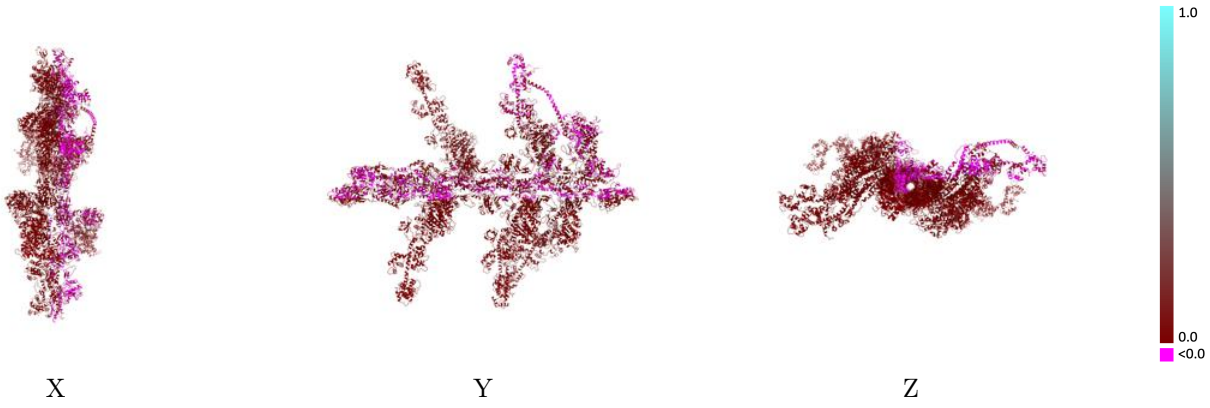
8 Map-model fit

This section contains information regarding the fit between EMDB map EMD-1001 and PDB model 1O18. Per-residue inclusion information can be found in section 3 on page 7.

8.1 Map-model overlay

This section was not generated.

8.2 Q-score mapped to coordinate model

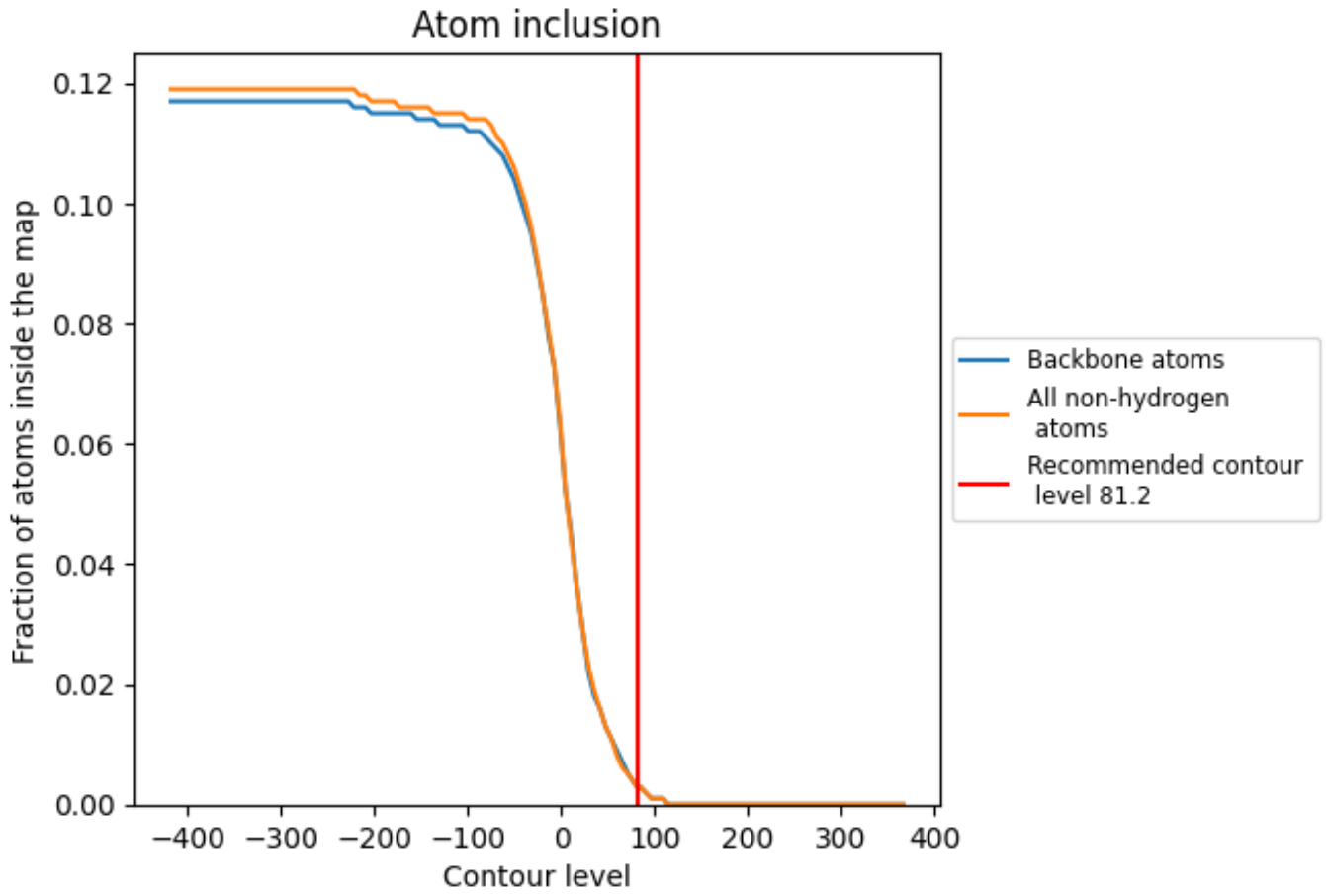


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

8.3 Atom inclusion mapped to coordinate model

This section was not generated.

8.4 Atom inclusion (i)



At the recommended contour level, 0% of all backbone atoms, 0% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (81.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.0030	-0.0020
1	0.0080	0.0020
2	0.0000	-0.0050
3	0.0000	-0.0170
4	0.0000	-0.0030
5	0.0000	-0.0110
6	0.0000	-0.0060
7	0.0000	0.0020
8	0.0000	-0.0030
9	0.0000	-0.0040
A	0.0010	0.0010
D	0.0000	0.0000
E	0.0000	0.0000
F	0.0000	0.0000
G	0.0030	0.0020
H	0.0000	-0.0180
I	0.1530	0.0240
J	0.0000	-0.0010
K	0.0000	0.0000
L	0.0000	0.0000
M	0.0000	0.0000
N	0.0000	0.0000
O	0.0000	0.0000
P	0.0000	-0.0060
Q	0.0000	0.0000
R	0.0000	0.0000
V	0.0000	-0.0030
W	0.0180	-0.0060
X	0.0000	-0.0010
Y	0.0020	0.0070
Z	0.0000	0.0010