Full wwPDB EM Validation Report

Mar 17, 2026 – 07:35 PM UTC

PDB ID	:	1O1D / pdb_00001o1d
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	:	2002-11-18
Resolution	:	70.00 Å(reported)
Based on initial models	:	2MYS, 1ATN

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 (i) 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 (1)) were used in the production of this report:

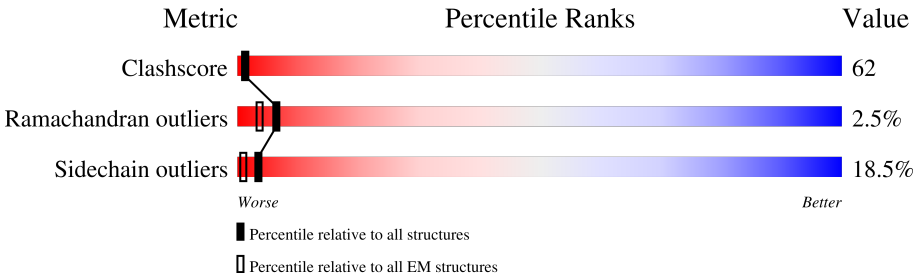
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
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% 24% 49% 22% ·
1	D	840	100% 25% 49% 22% ·
1	G	840	100% 24% 49% 22% ·
1	J	840	100% 25% 49% 23% ·
1	M	840	100% 23% 50% 23% ·
1	P	840	100% 24% 49% 22% ·
2	B	145	100% 64% 26% 7% ·
2	E	145	100% 64% 26% 8% ·

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Mol	Chain	Length	Quality of chain
2	H	145	100% 62% 29% 5%
2	K	145	99% 63% 27% 7%
2	N	145	100% 64% 26% 7%
2	Q	145	100% 64% 27% 6%
3	C	147	100% 61% 35%
3	F	147	87% 61% 35%
3	I	147	100% 61% 35%
3	L	147	100% 61% 35%
3	O	147	100% 61% 35%
3	R	147	100% 61% 35%
4	0	375	99% 50% 35% 12%
4	1	375	97% 53% 36% 9%
4	2	375	99% 53% 36% 8%
4	3	375	99% 54% 34% 9%
4	4	375	99% 55% 34% 9%
4	5	375	99% 55% 34% 9%
4	7	375	99% 56% 33% 9%
4	8	375	99% 51% 35% 11%
4	9	375	99% 50% 35% 12%
4	V	375	99% 49% 36% 13%
4	W	375	99% 49% 36% 12%
4	X	375	92% 54% 34% 10%
4	Y	375	99% 54% 34% 9%
4	Z	375	97% 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 crite-

ria:

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	A	839	-	-	X	-
1	MLY	D	553	-	-	X	-
1	MLY	D	764	-	-	X	-
1	MLY	D	768	-	-	X	-
1	MLY	D	782	-	-	X	-
1	MLY	G	553	-	-	X	-
1	MLY	G	764	-	-	X	-
1	MLY	G	768	-	-	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	35	-	-	X	-
1	MLY	M	505	-	-	X	-
1	MLY	M	553	-	-	X	-
1	MLY	M	764	-	-	X	-
1	MLY	M	782	-	-	X	-
1	MLY	M	839	-	-	X	-
1	MLY	M	84	-	-	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 94966 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	B	145	Total	C	N	O	S	0	0
			1127	717	177	227	6		
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	C	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
3	F	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		
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.

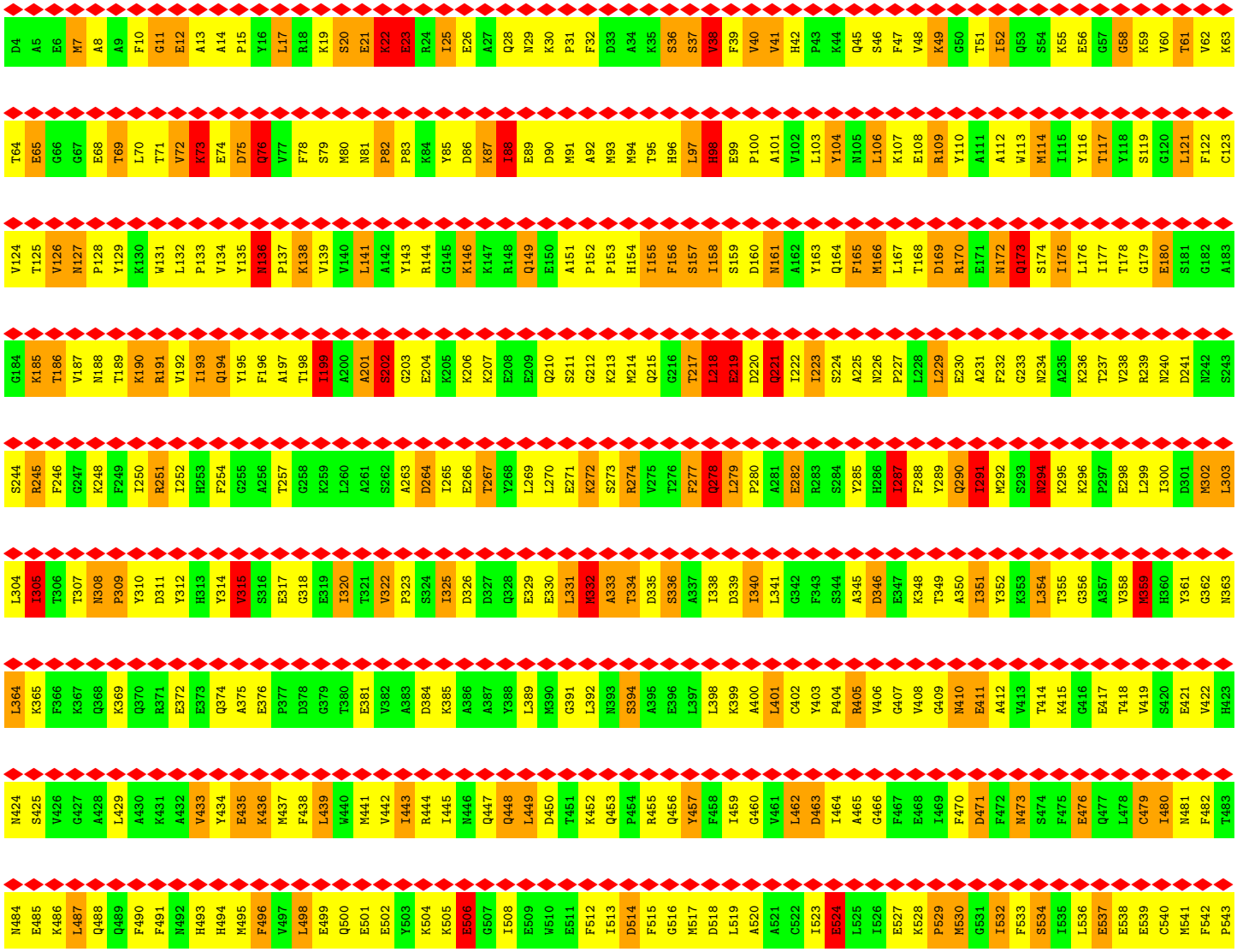
Mol	Chain	Residues	Atoms					AltConf	Trace
4	0	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	5	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	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		

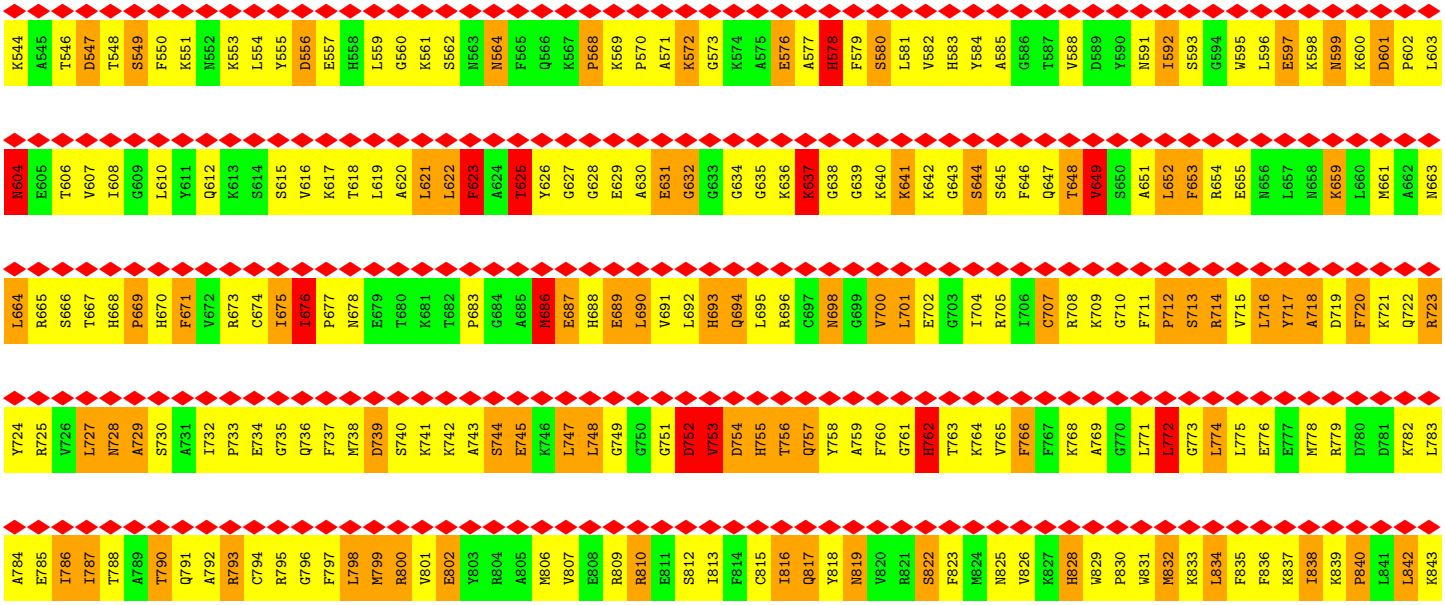
3 Residue-property plots (i)

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

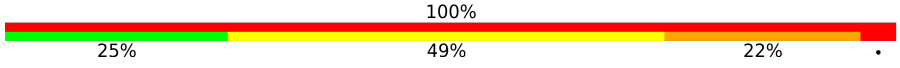
Chain A:

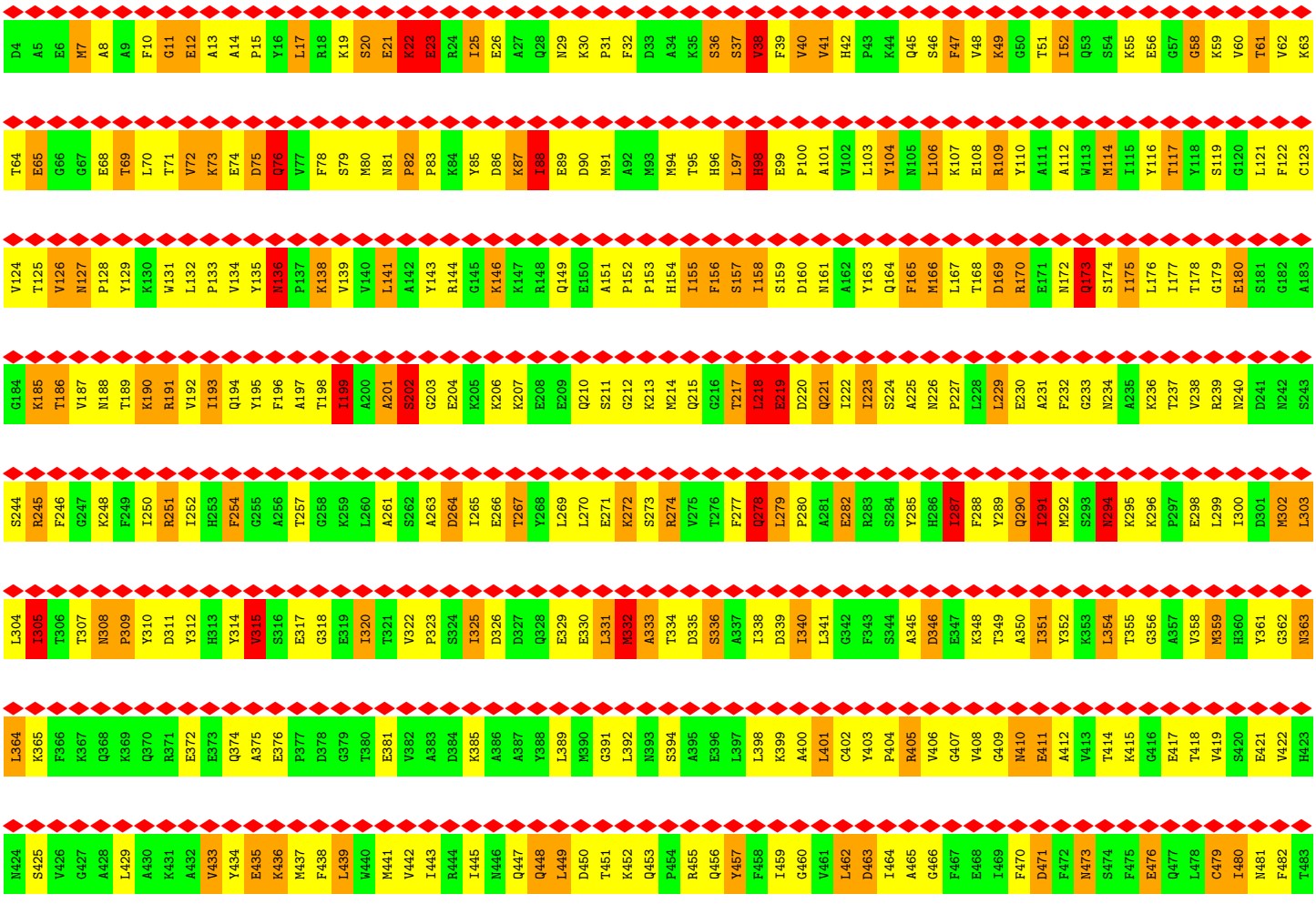


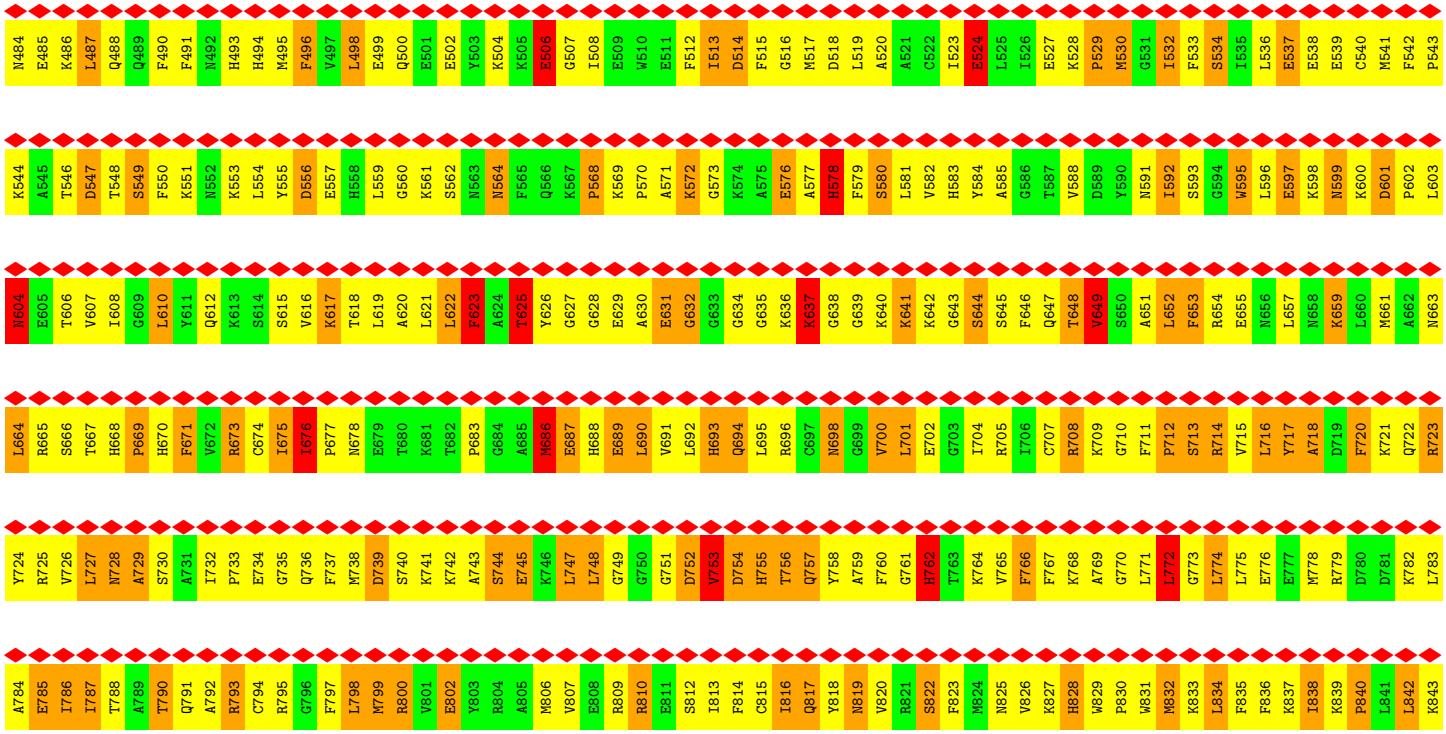


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain D:

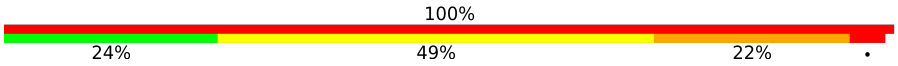


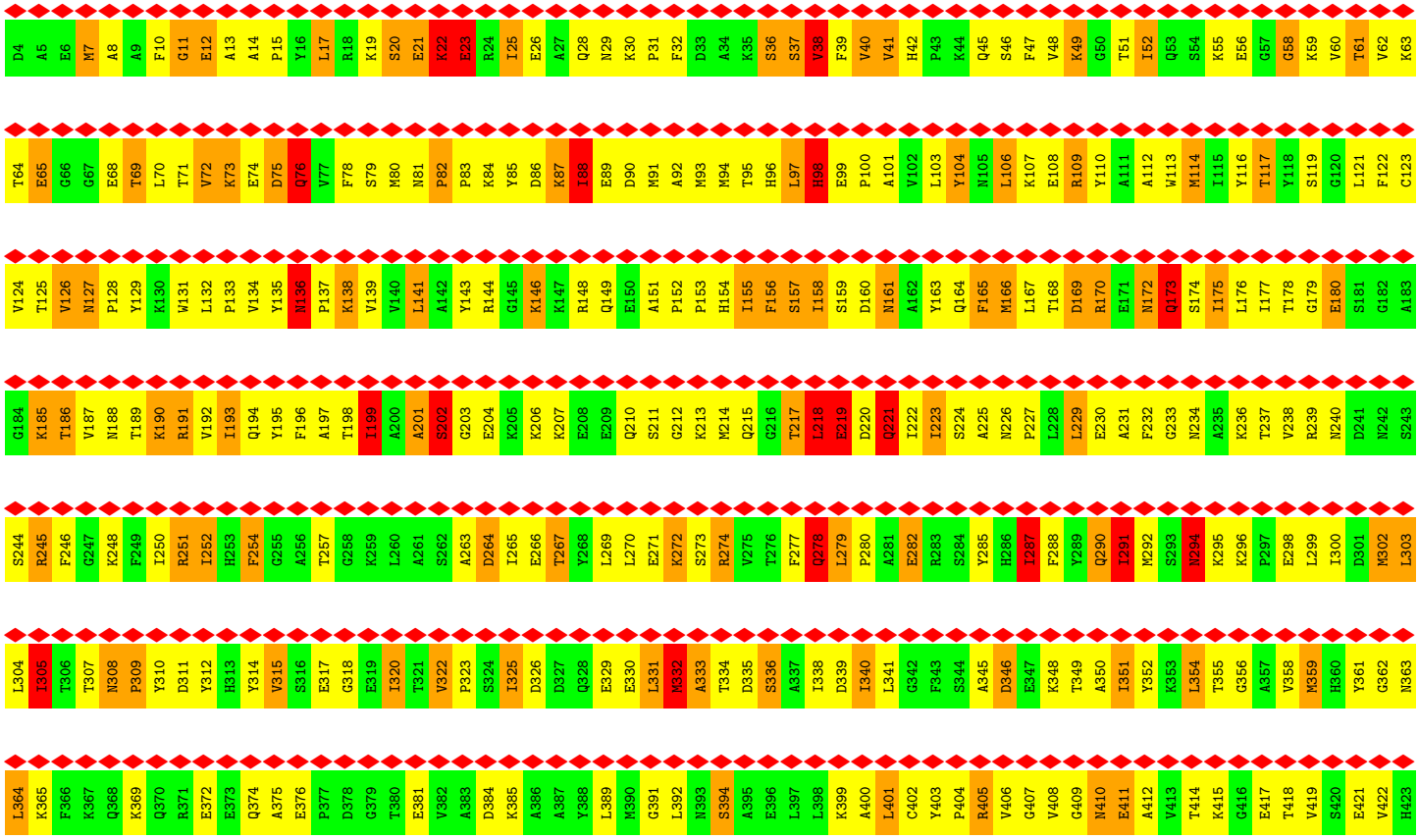


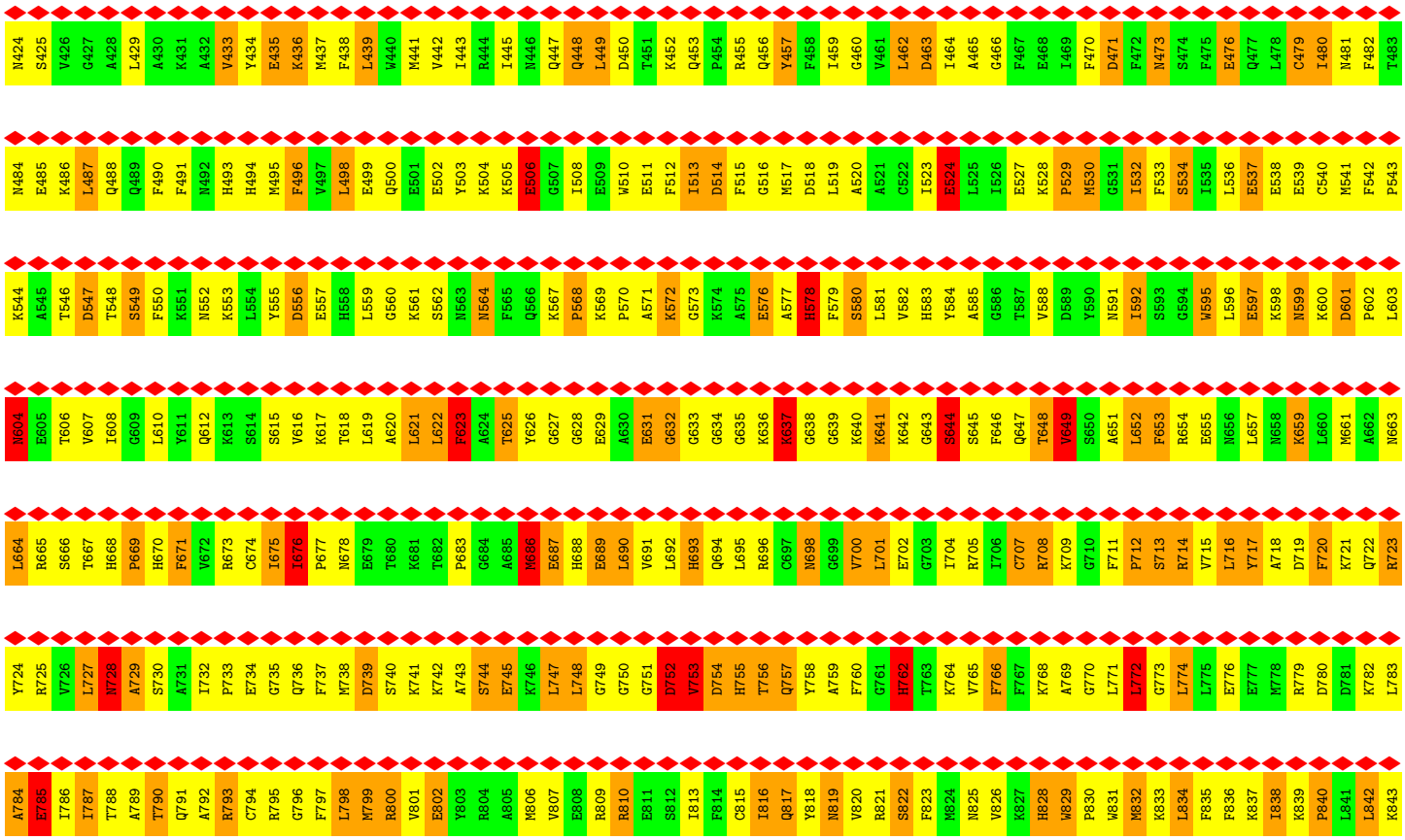


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain G:

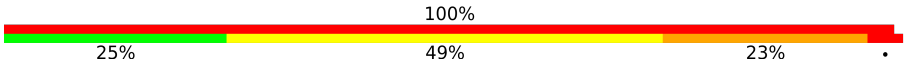


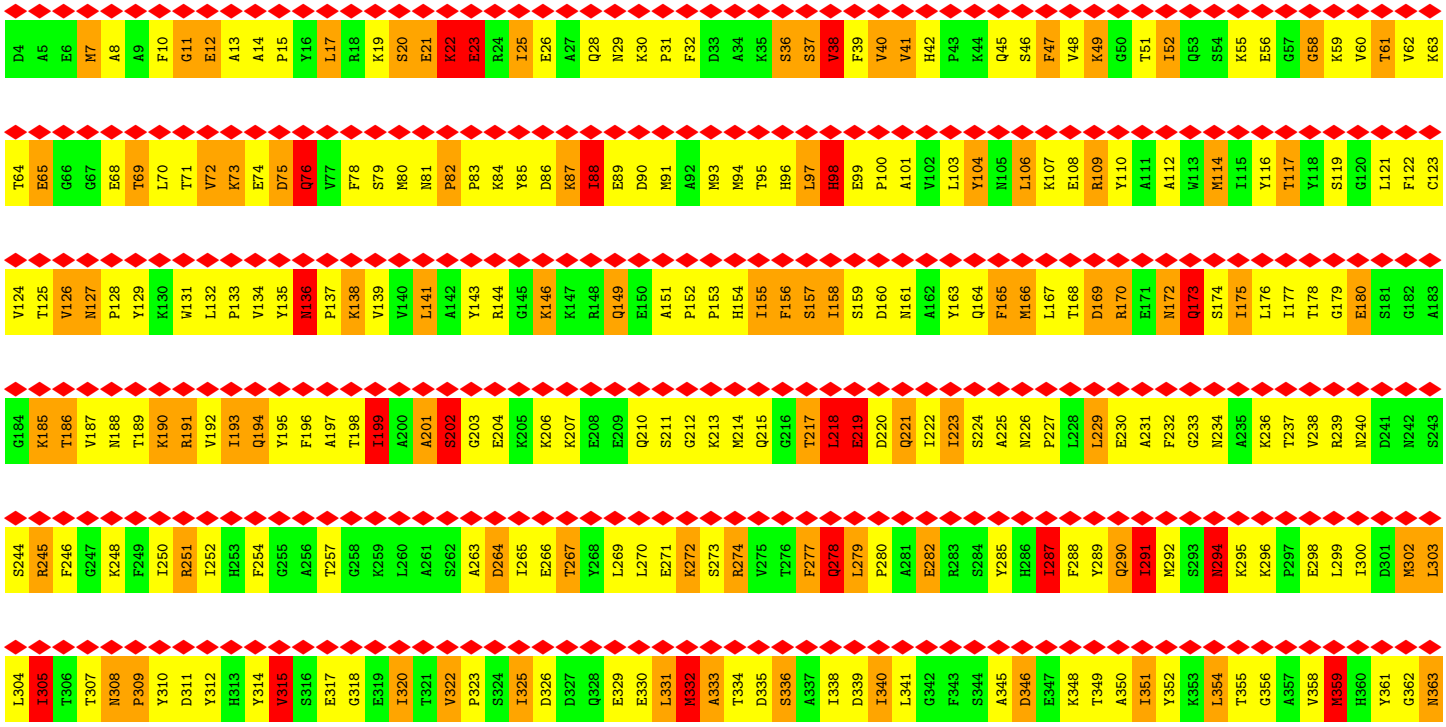


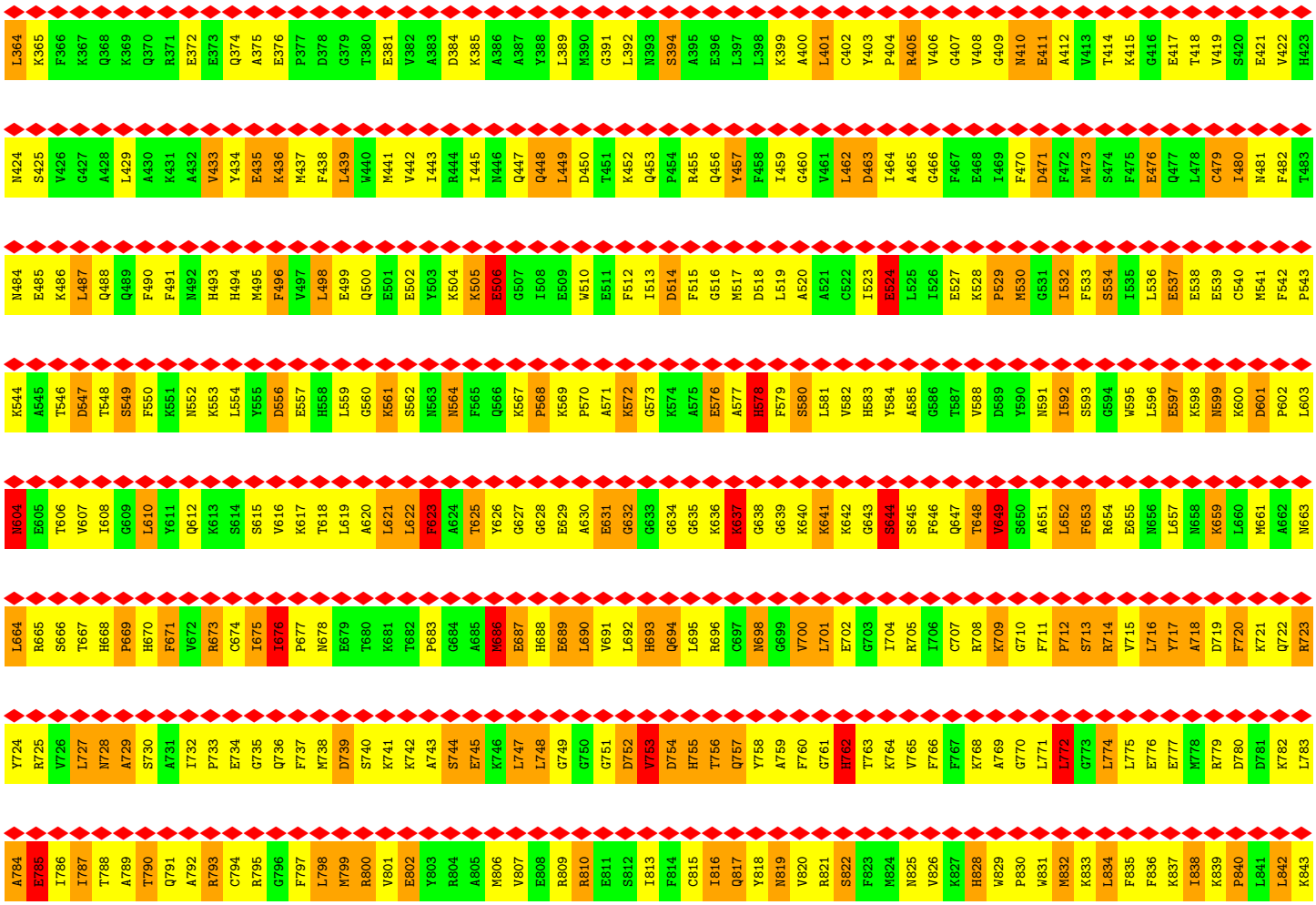


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain J:

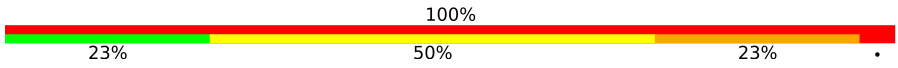


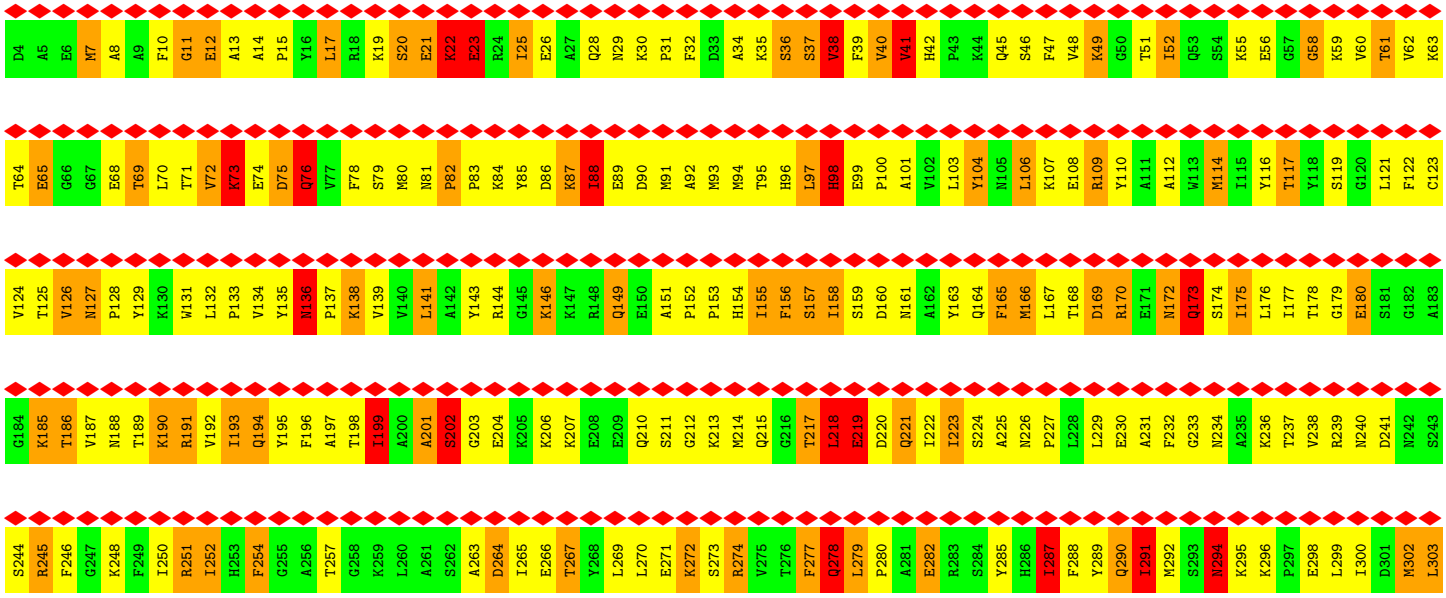


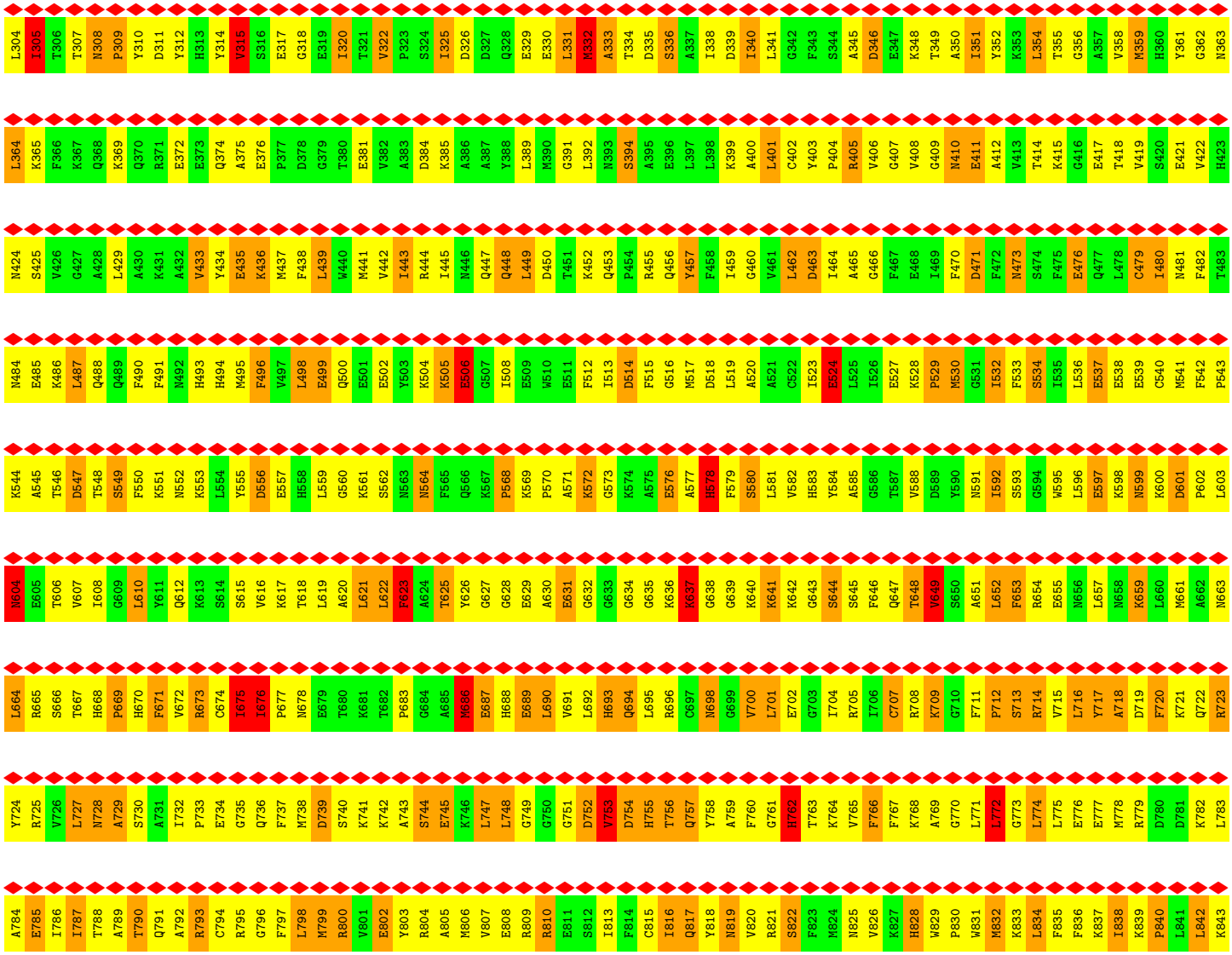


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain M:

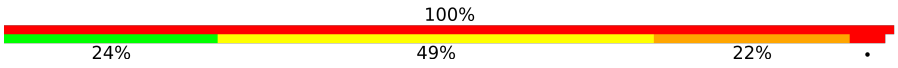


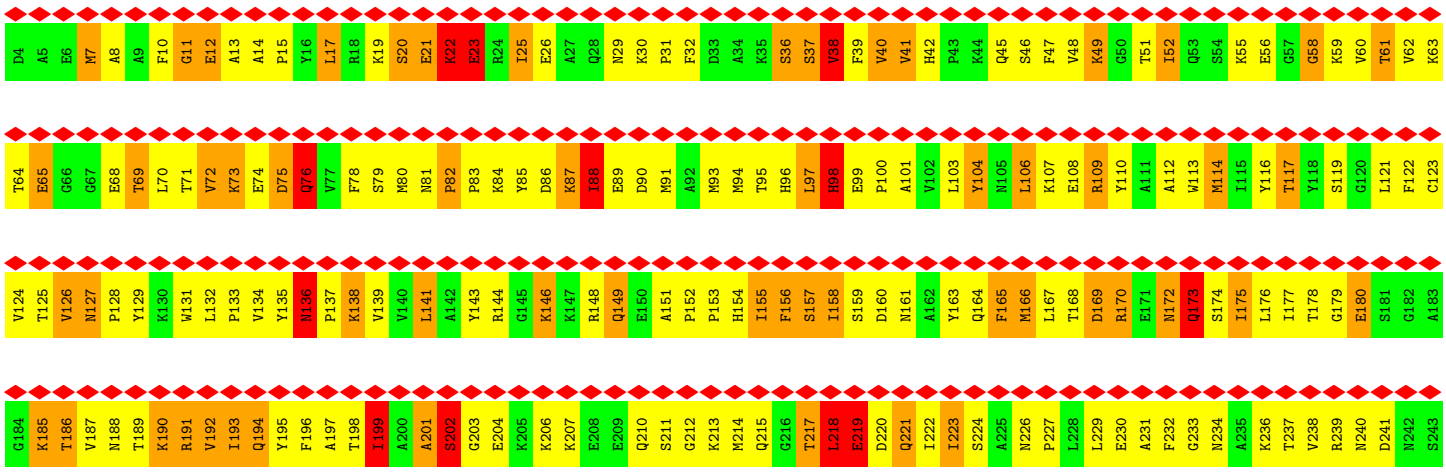


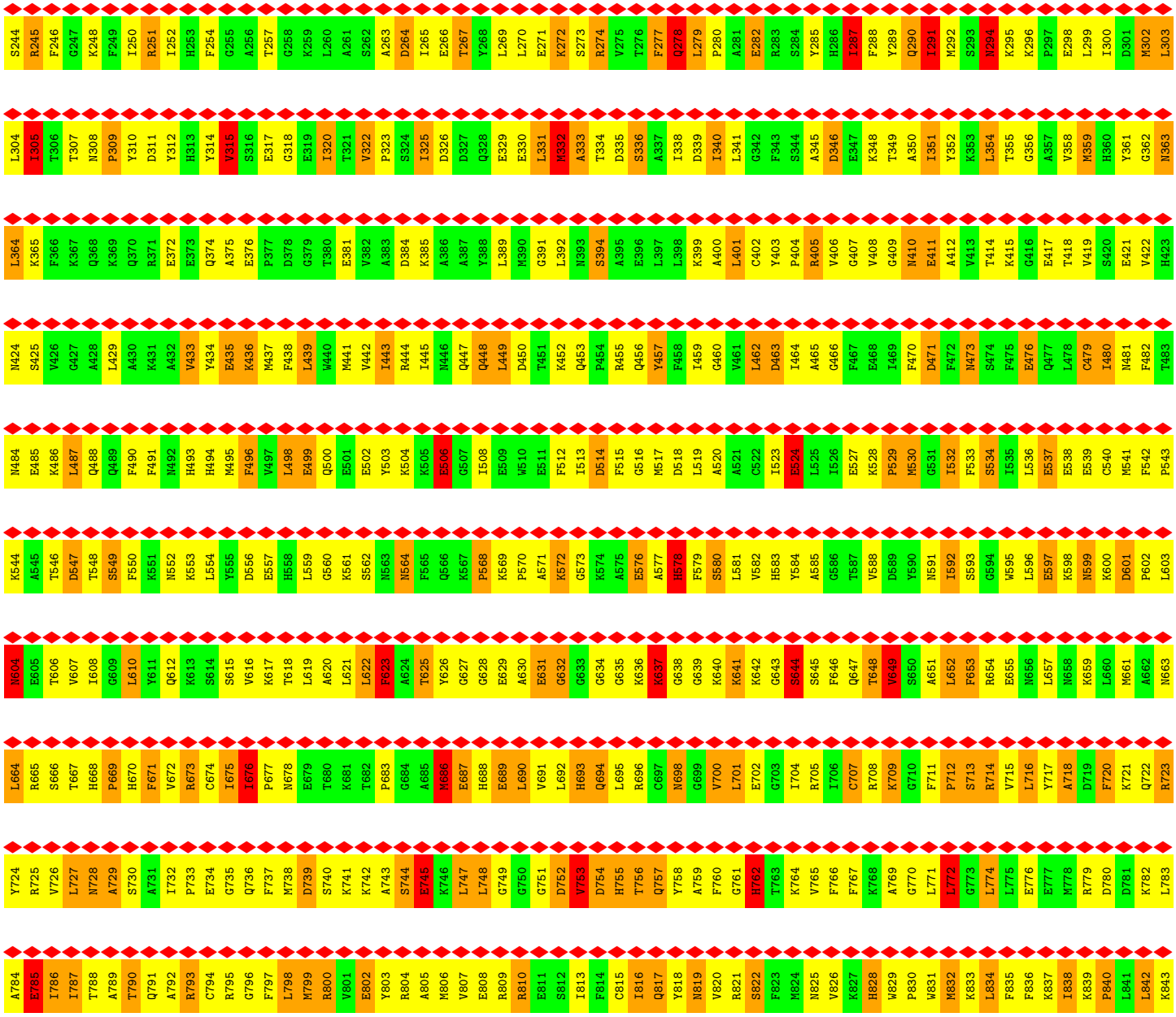


• Molecule 1: SKELETAL MUSCLE MYOSIN II

Chain P:

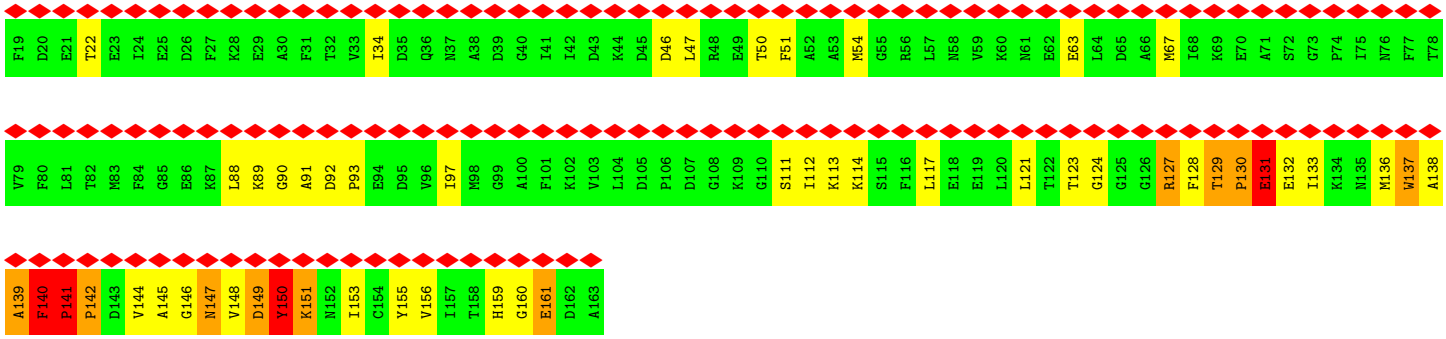






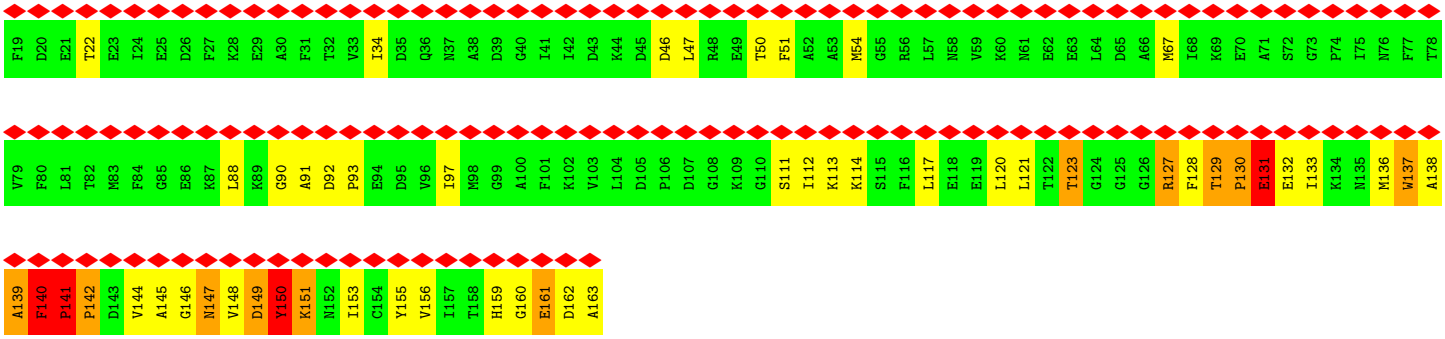
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain B:



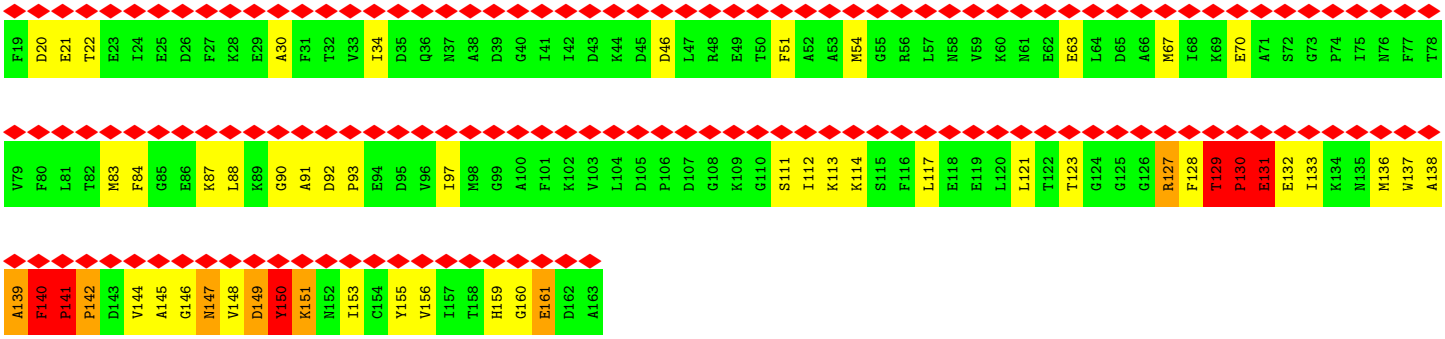
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain E:



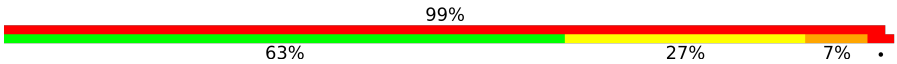
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

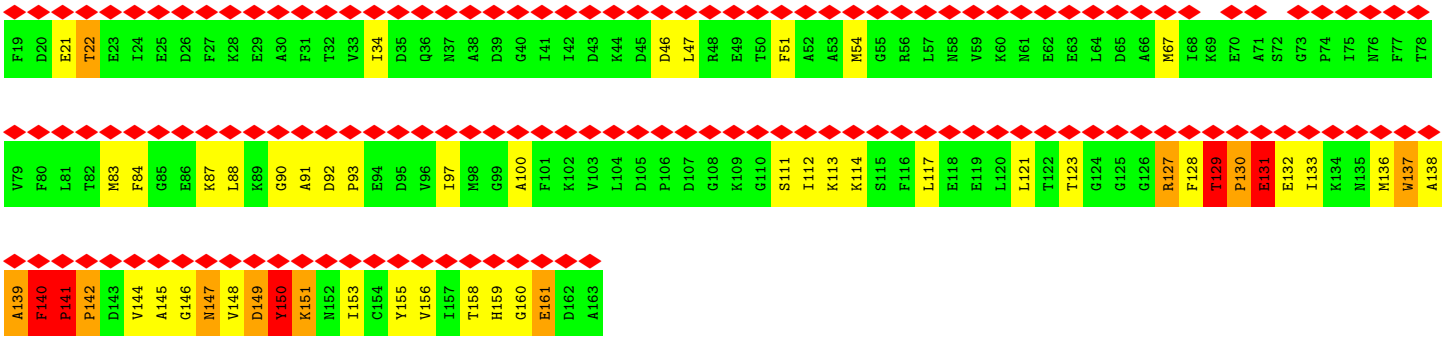
Chain H:



• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

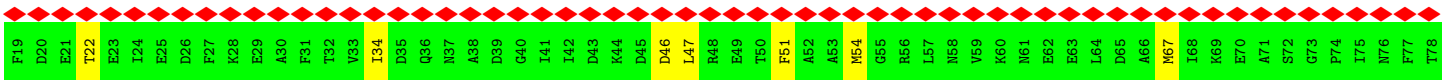
Chain K:

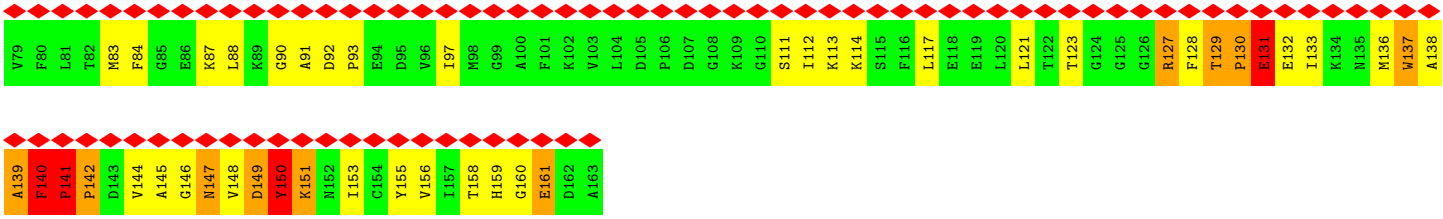




• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

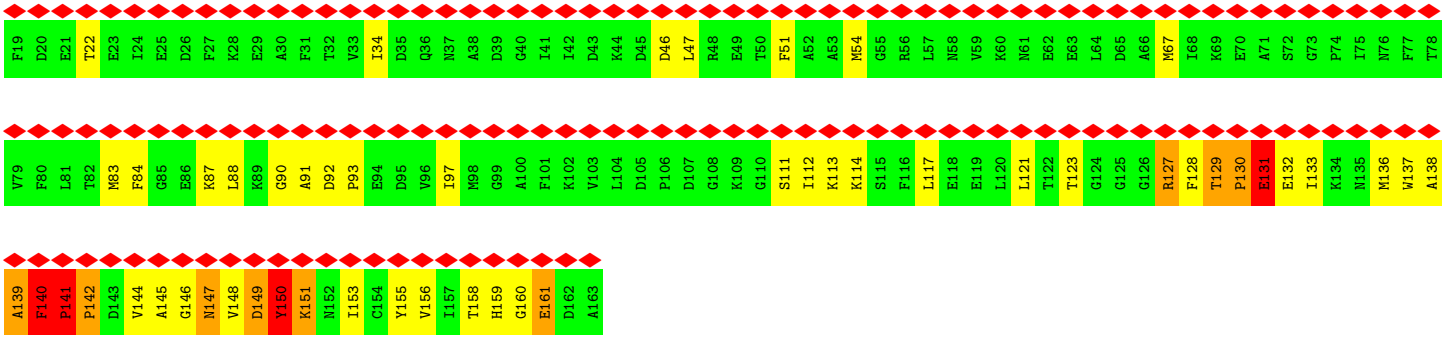
Chain N:





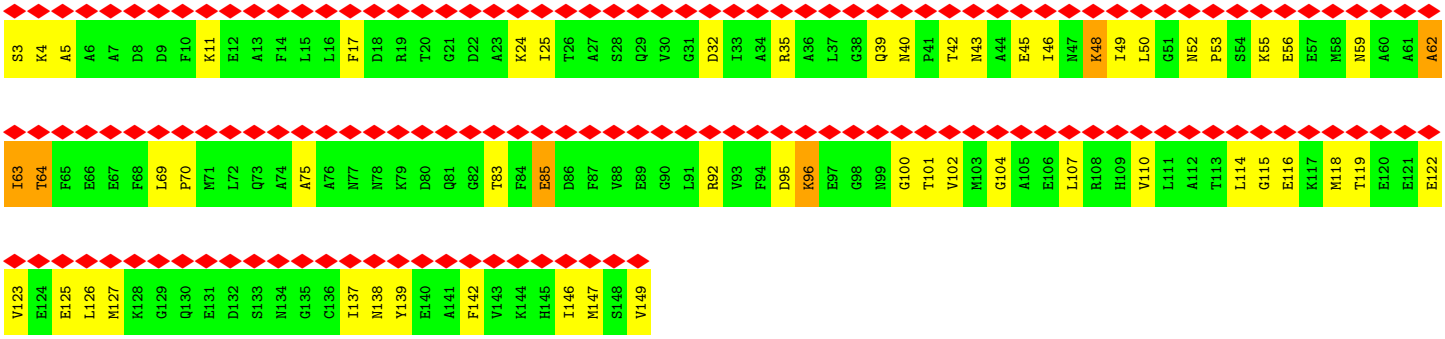
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain Q:



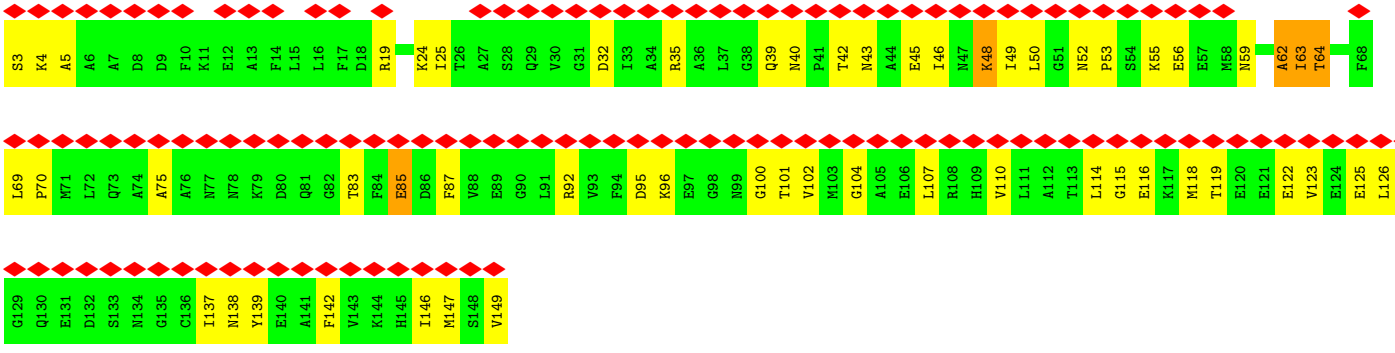
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain C:



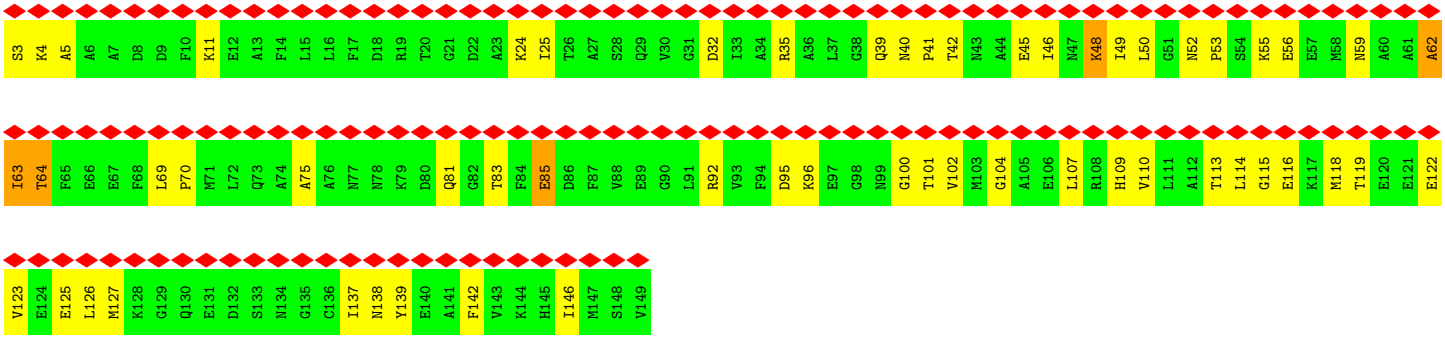
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

Chain F:



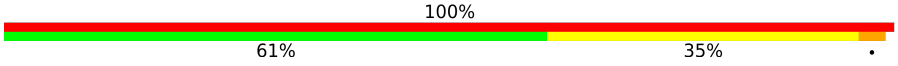
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

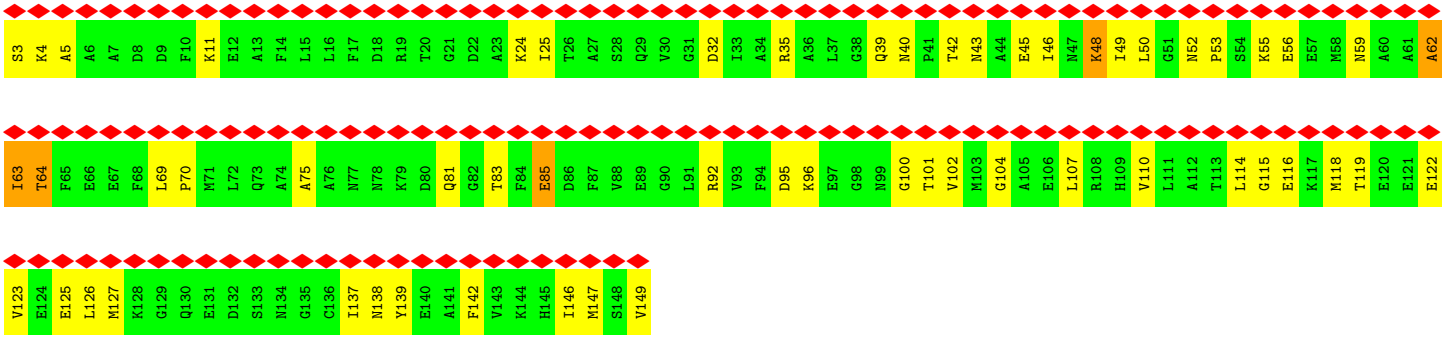
Chain I:



• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

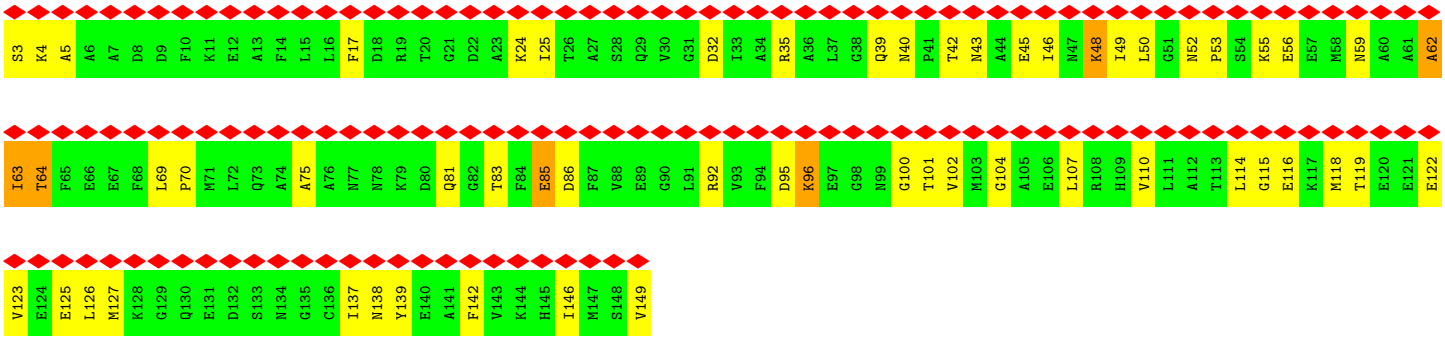
Chain L:





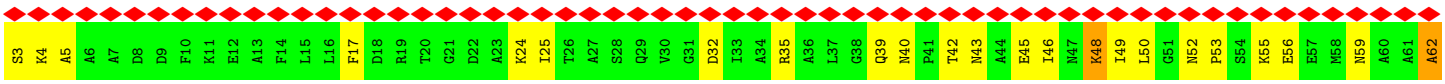
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

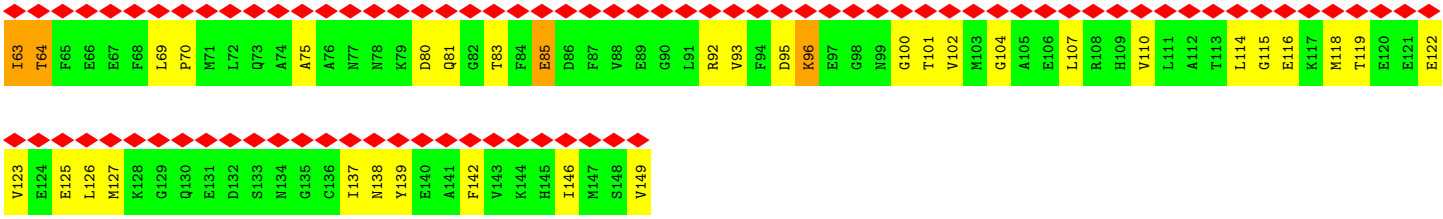
Chain O:



• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

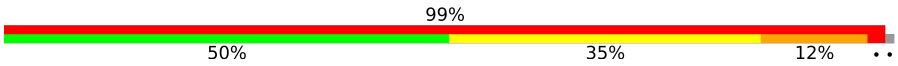
Chain R:





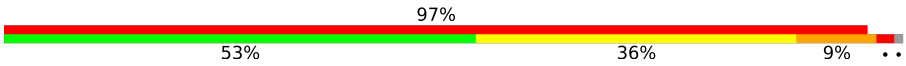
• Molecule 4: SKELETAL MUSCLE ACTIN

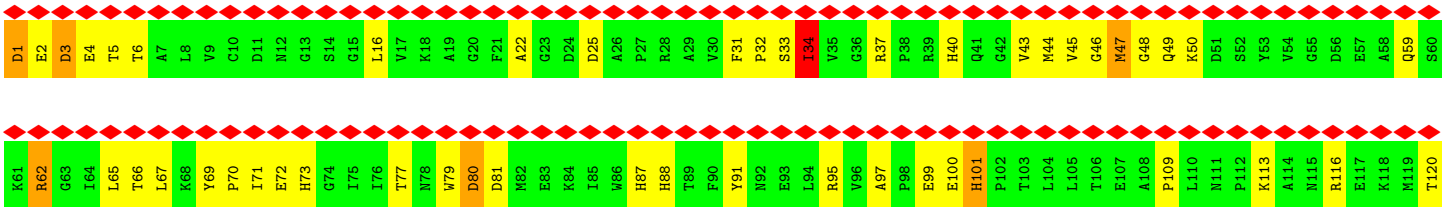
Chain 0:

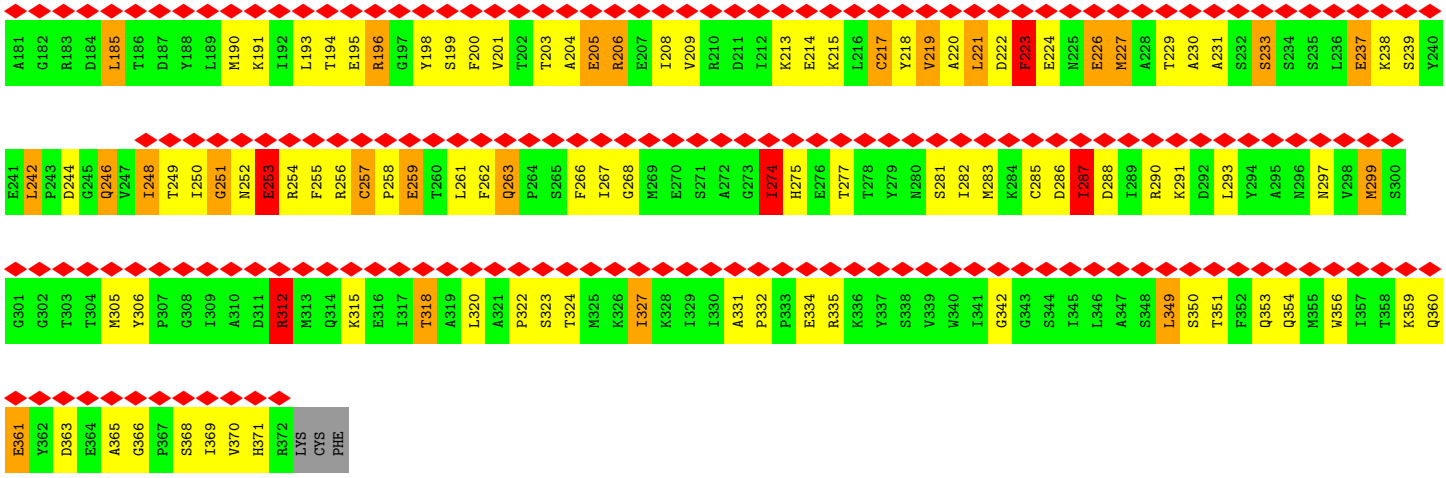


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 1:

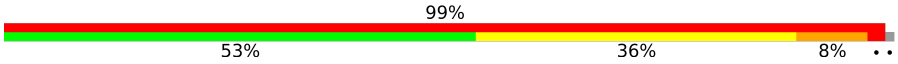


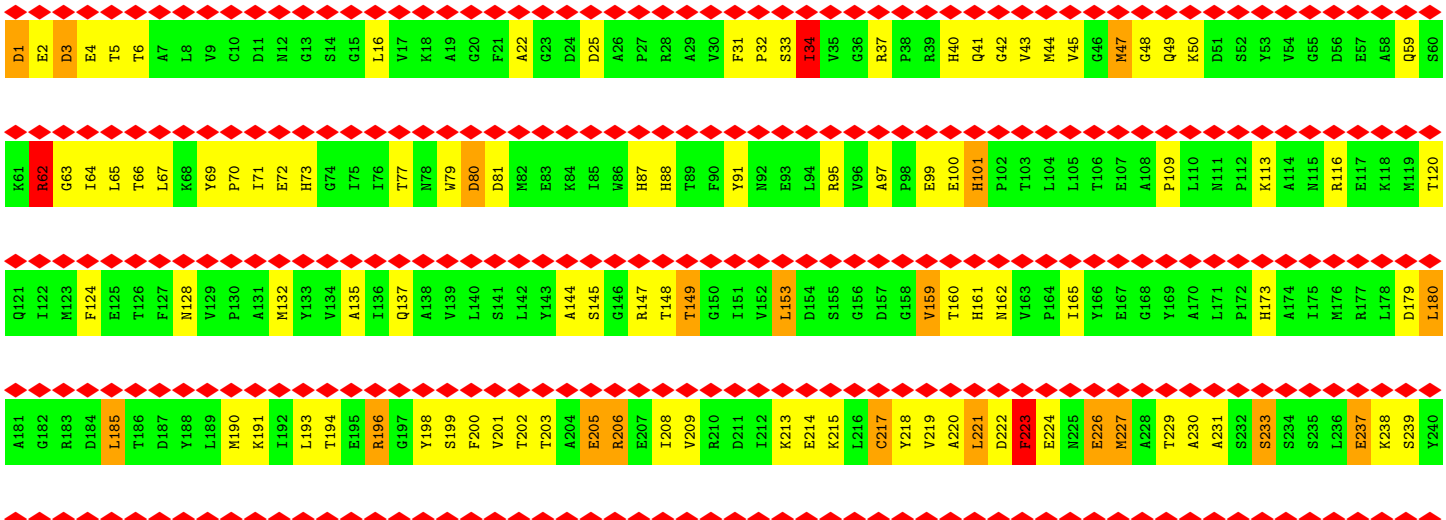




• Molecule 4: SKELETAL MUSCLE ACTIN

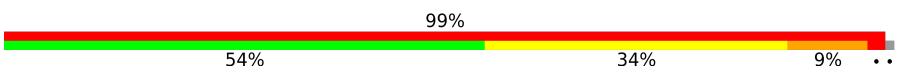
Chain 2:

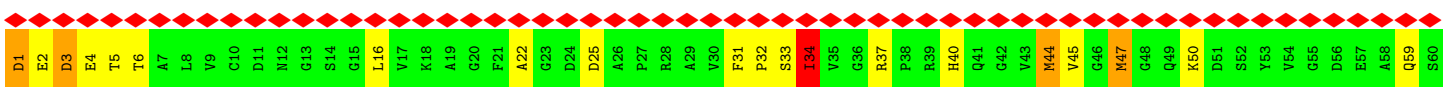


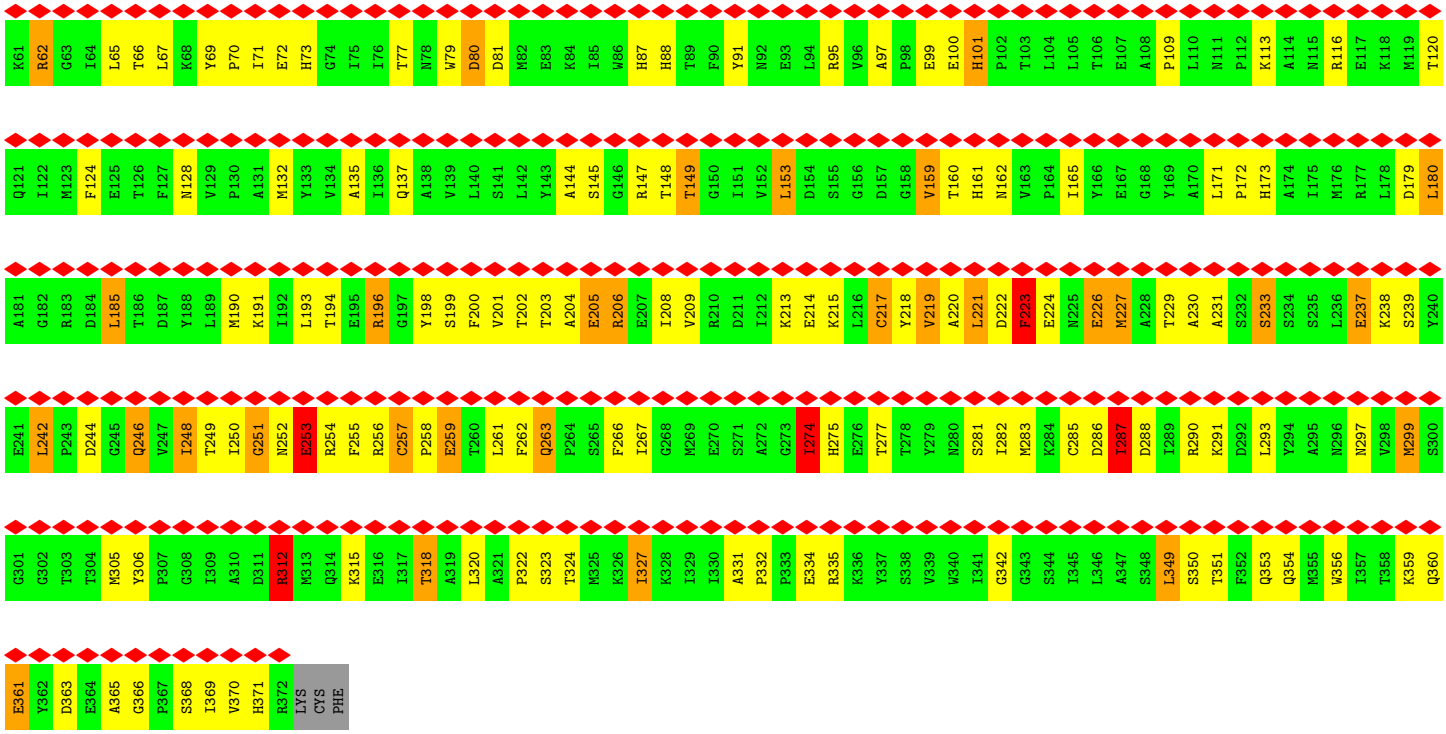


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 3:

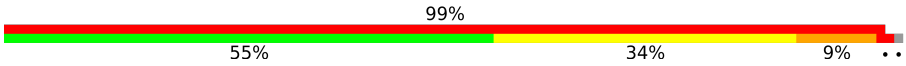


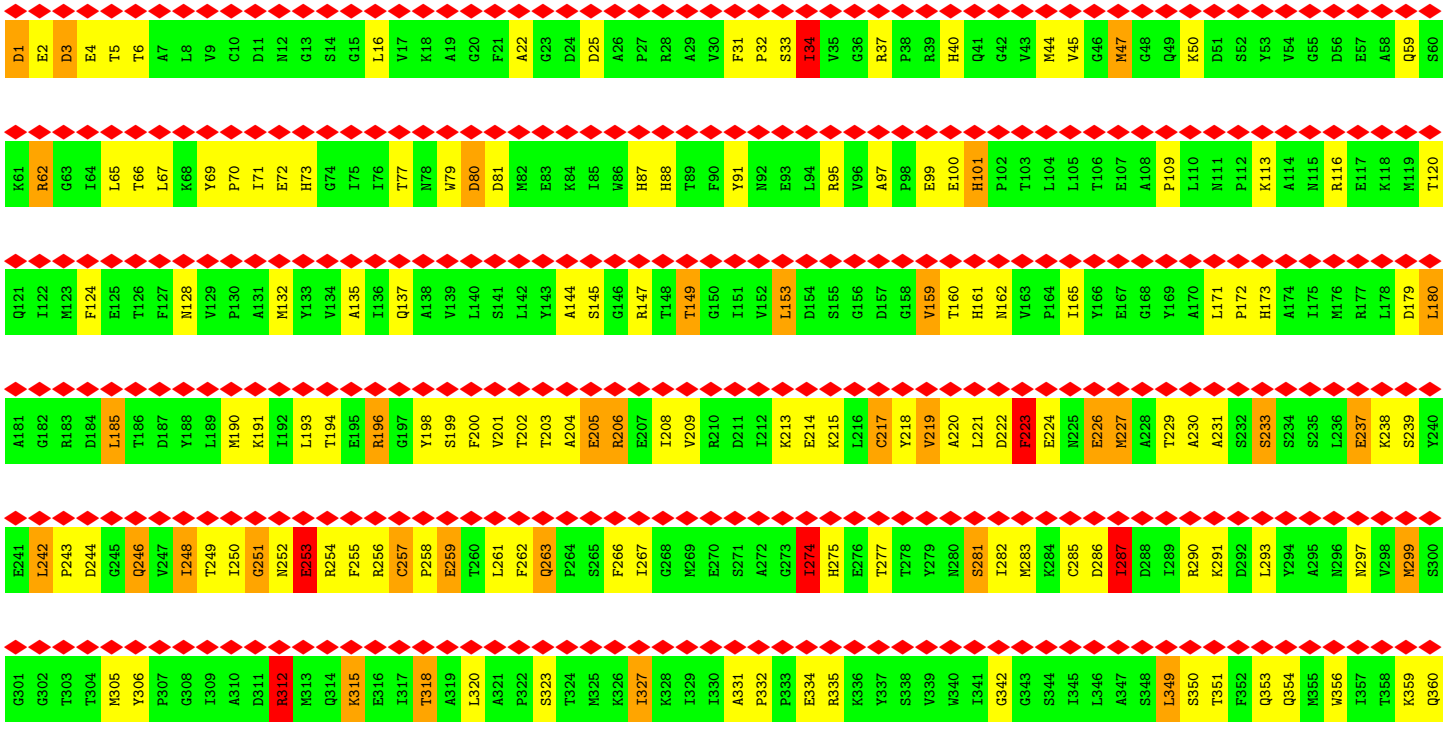




• Molecule 4: SKELETAL MUSCLE ACTIN

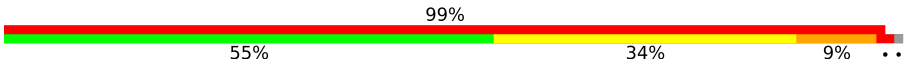
Chain 4:

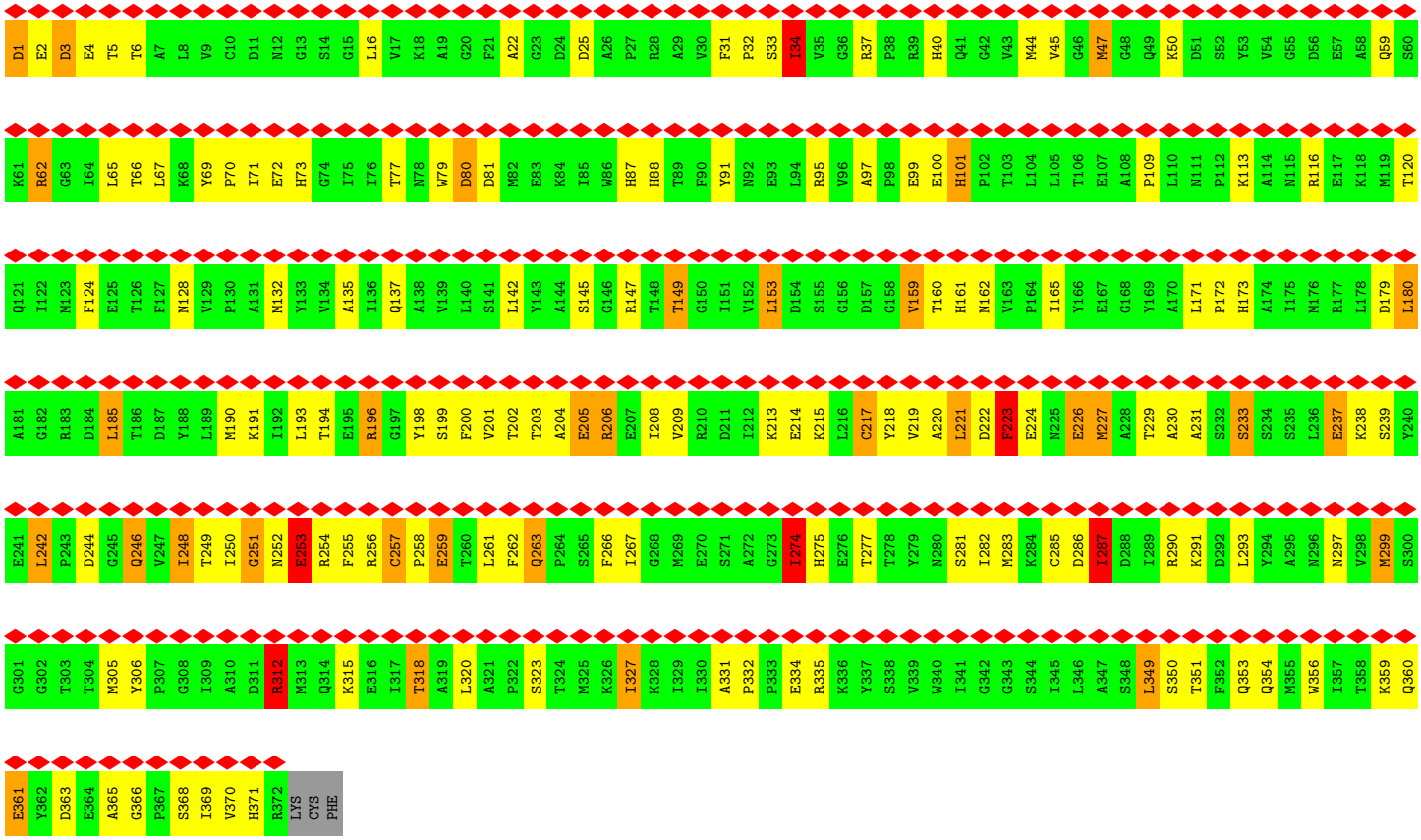




• Molecule 4: SKELETAL MUSCLE ACTIN

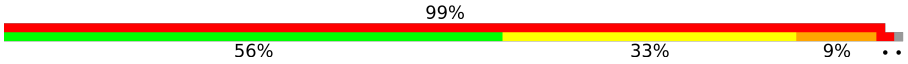
Chain 5:

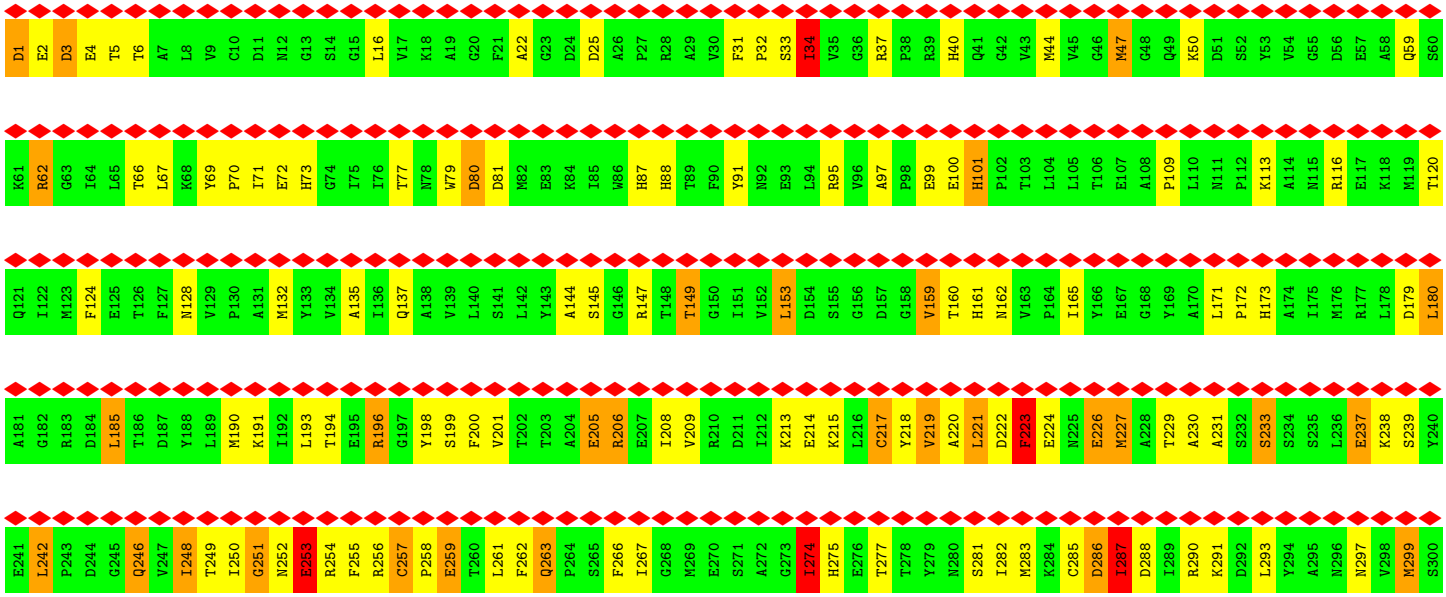


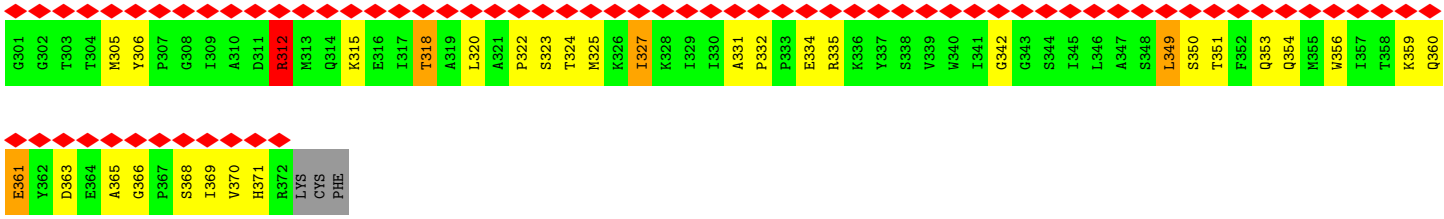


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain 7:

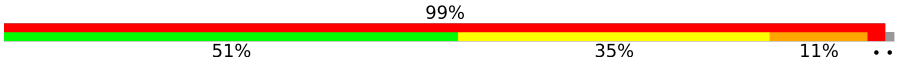


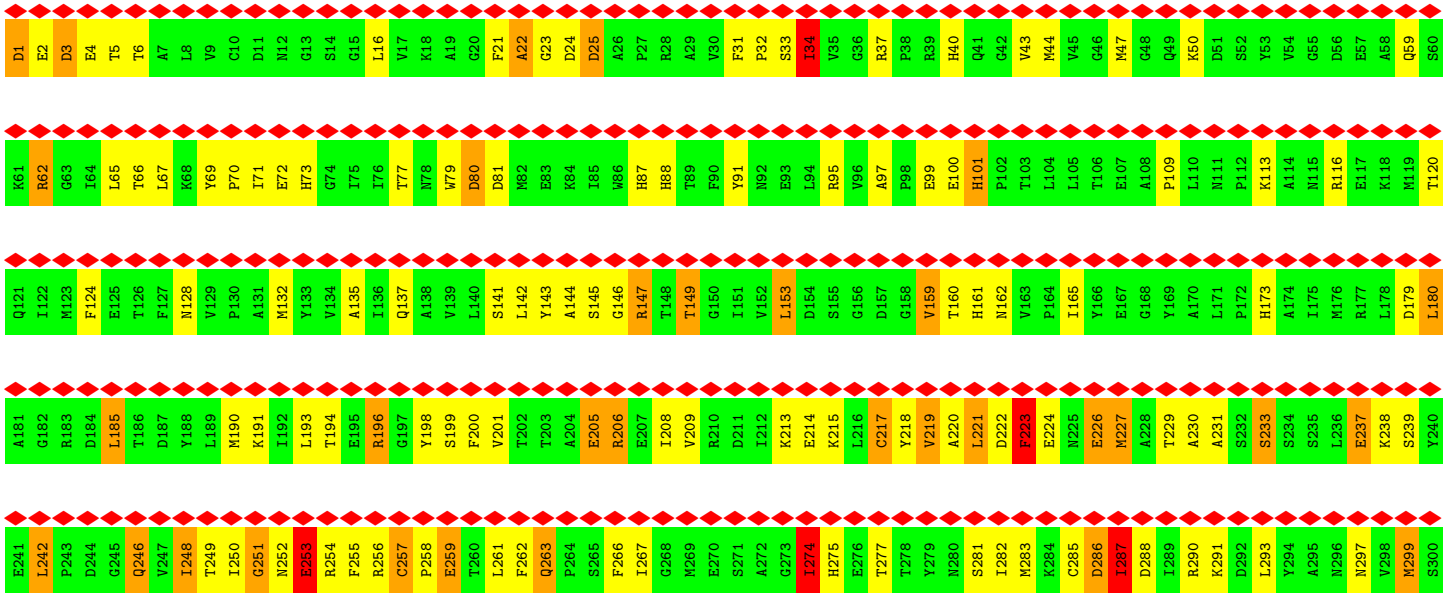




• Molecule 4: SKELETAL MUSCLE ACTIN

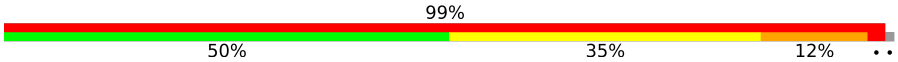
Chain 8:

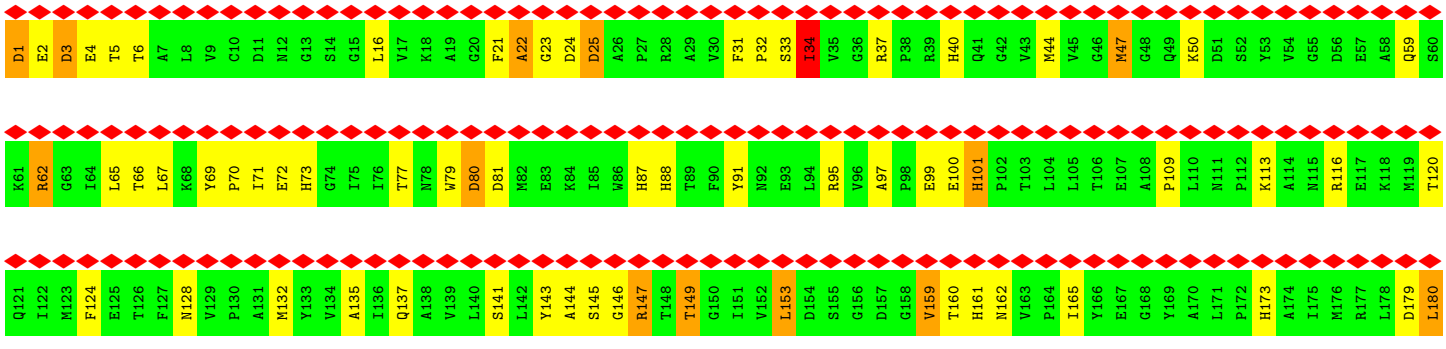




• Molecule 4: SKELETAL MUSCLE ACTIN

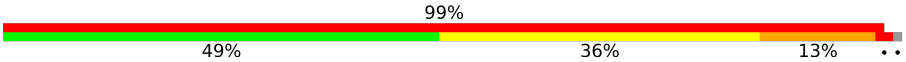
Chain 9:

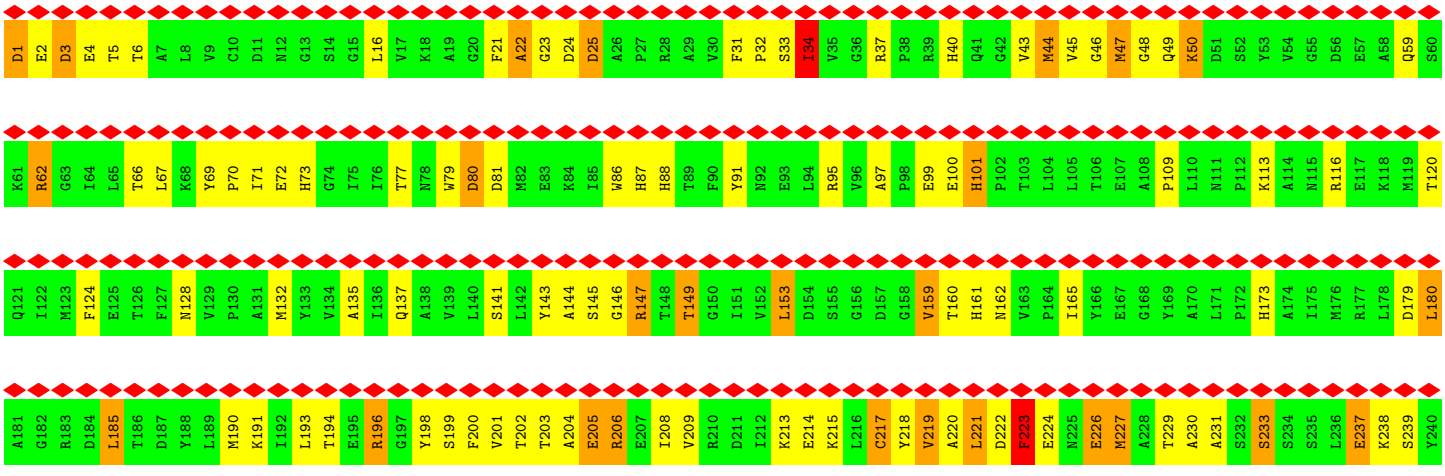




• Molecule 4: SKELETAL MUSCLE ACTIN

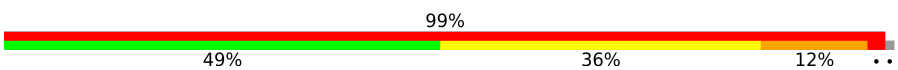
Chain V:

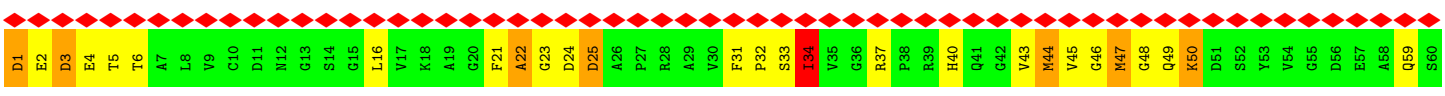


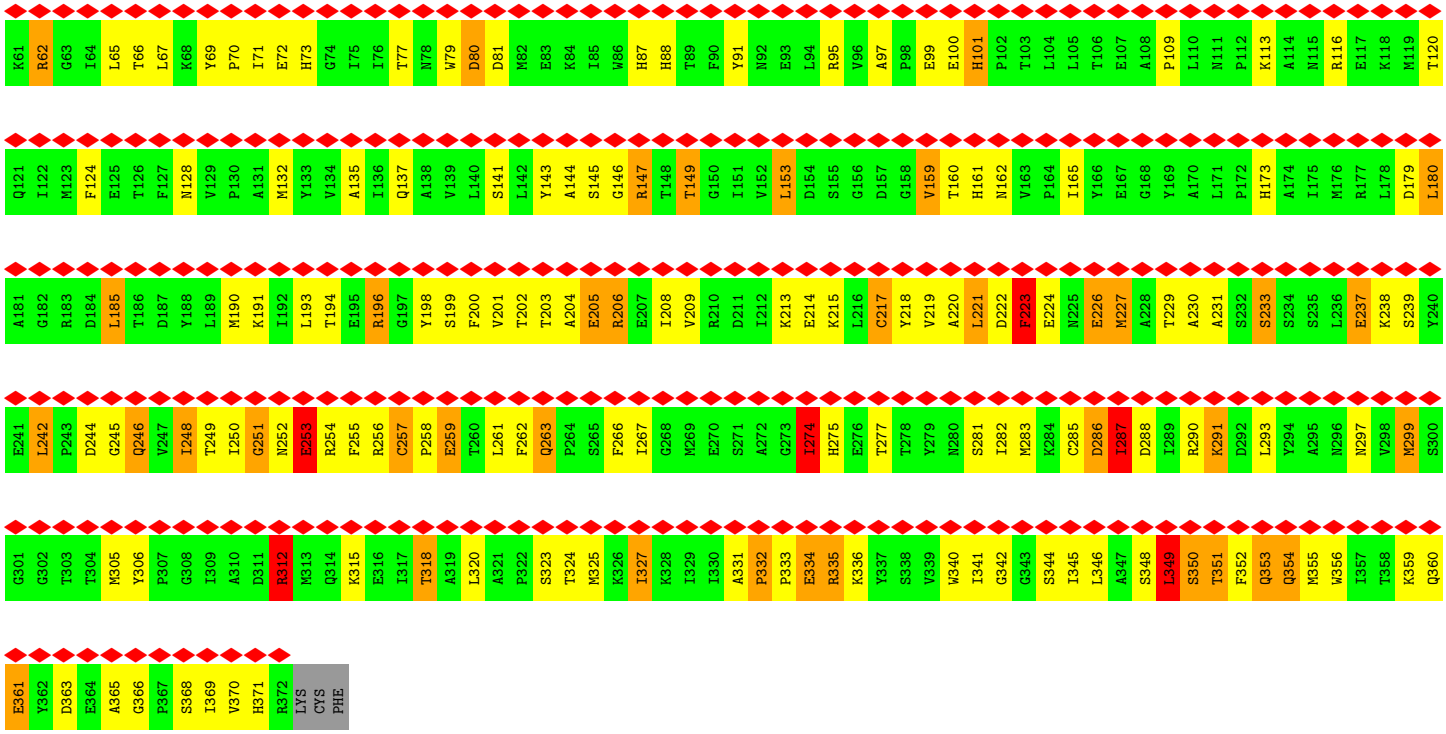


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain W:

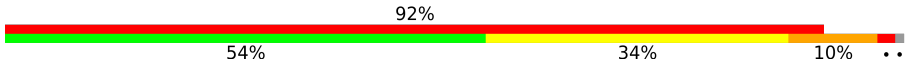


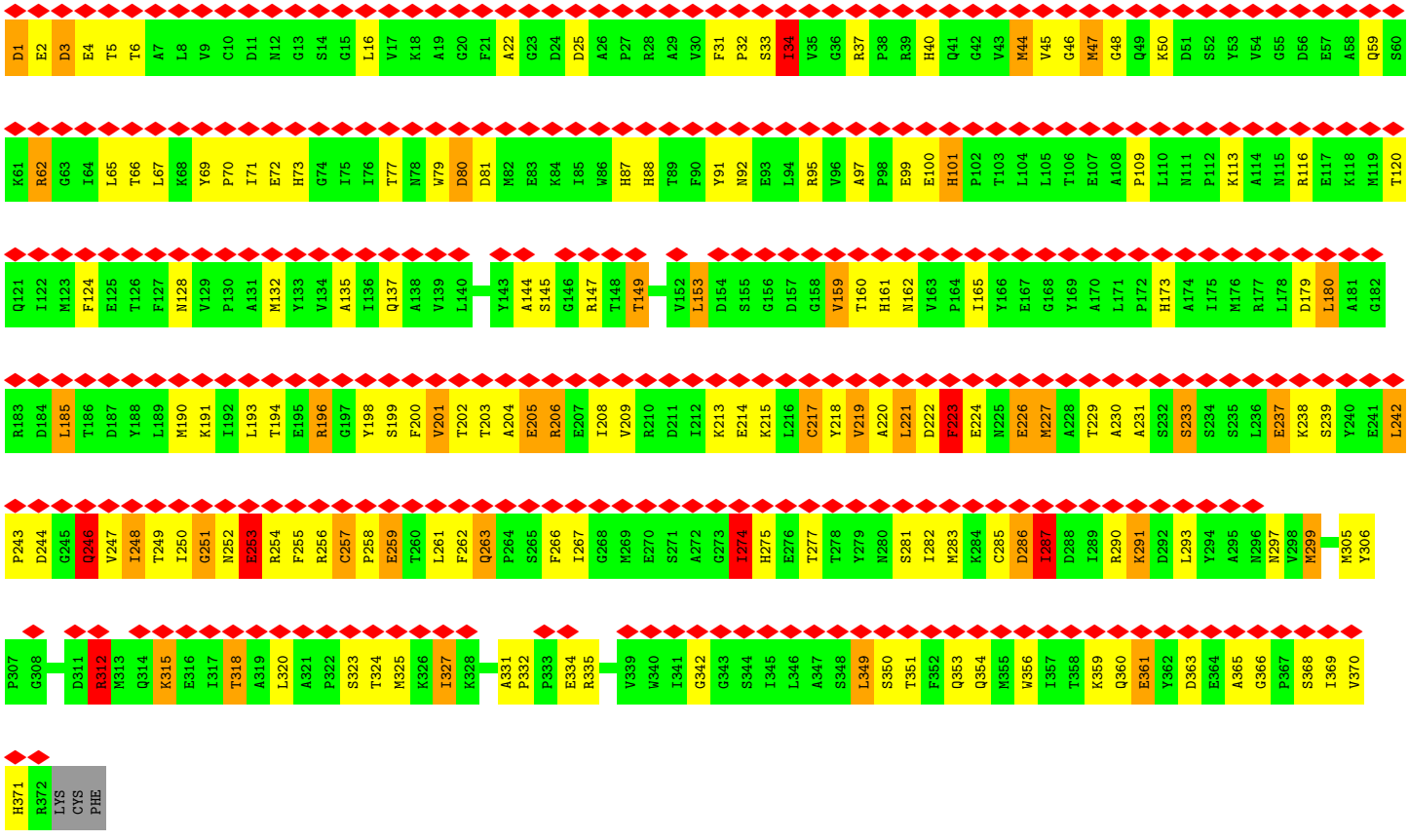




- Molecule 4: SKELETAL MUSCLE ACTIN

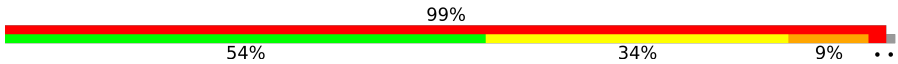
Chain X:

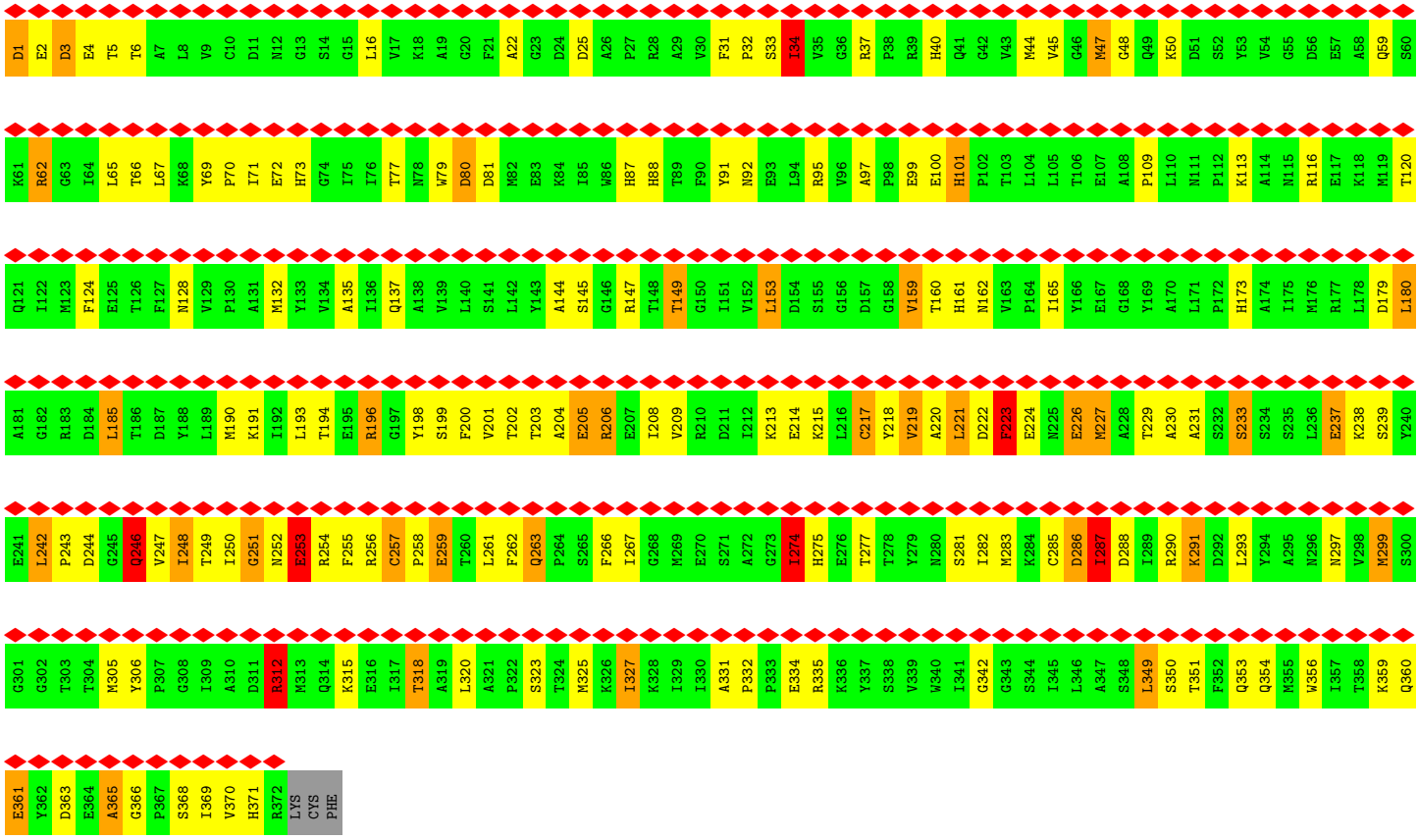




• Molecule 4: SKELETAL MUSCLE ACTIN

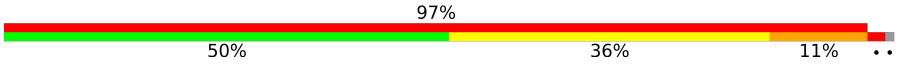
Chain Y:

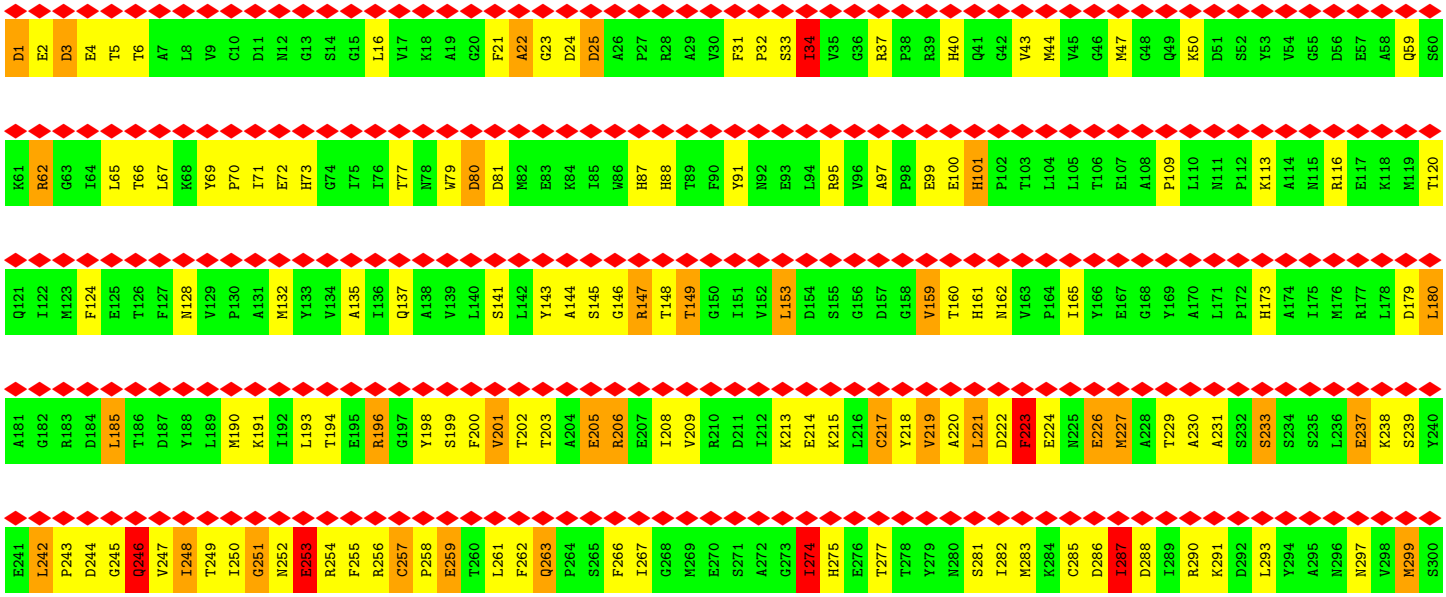


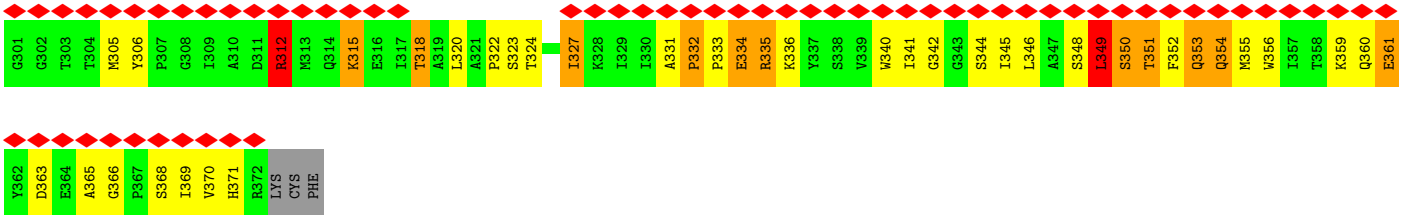


• Molecule 4: SKELETAL MUSCLE ACTIN

Chain Z:






G301 G302 T303 T304 M305 Y306 P307 G308 I309 A310 D311 R312 M313 Q314 K315 E316 I317 T318 A319 L320 A321 P322 S323 T324
I327 K328 I329 I330 A331 P332 P333 E334 R335 K336 Y337 S338 V339 W340 I341 G342 G343 S344 I345 L346 A347 S348 L349 S350 T351 F352 Q353 Q354 M355 W356 I357 T358 K359 Q360 E361
Y362 D363 E364 A365 G366 P367 S368 I369 V370 H371 R372 LYS CYS PHE

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	1.85	42/6448 (0.7%)	2.12	150/8729 (1.7%)
1	D	1.85	39/6448 (0.6%)	2.13	150/8729 (1.7%)
1	G	1.86	42/6449 (0.7%)	2.13	160/8732 (1.8%)
1	J	1.86	43/6449 (0.7%)	2.23	149/8732 (1.7%)
1	M	1.86	44/6446 (0.7%)	2.14	151/8723 (1.7%)
1	P	2.00	45/6448 (0.7%)	2.20	156/8729 (1.8%)
2	B	1.36	16/1148 (1.4%)	1.47	21/1548 (1.4%)
2	E	1.37	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	15/1148 (1.3%)	1.47	21/1548 (1.4%)
3	C	0.88	4/1136 (0.4%)	1.18	6/1525 (0.4%)
3	F	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	I	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	L	0.87	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	0	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	1	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	2	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	3	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	4	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	5	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	7	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	8	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	9	1.17	12/2968 (0.4%)	2.00	100/4023 (2.5%)
4	V	1.17	12/2968 (0.4%)	2.00	99/4023 (2.5%)
4	W	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	X	1.17	13/2968 (0.4%)	2.00	96/4023 (2.4%)
4	Y	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	Z	1.17	12/2968 (0.4%)	2.00	101/4023 (2.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
All	All	1.50	552/93944 (0.6%)	1.99	2464/127134 (1.9%)

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	1	4
1	J	1	6
1	M	1	6
1	P	1	6
2	B	0	3
2	E	0	3
2	H	0	3
2	K	0	3
2	N	0	3
2	Q	0	3
3	C	0	2
3	F	0	2
3	I	0	2
3	L	0	2
3	O	0	2
3	R	0	2
4	0	0	1
4	1	0	1
4	2	0	1
4	3	0	1
4	4	0	1
4	5	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	6	74

All (552) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	786	ILE	C-N	46.74	1.89	1.33
1	A	648	THR	CB-OG1	42.69	2.12	1.43
1	D	648	THR	CB-OG1	42.67	2.12	1.43
1	G	648	THR	CB-OG1	42.63	2.12	1.43
1	P	648	THR	CB-OG1	42.63	2.12	1.43
1	M	648	THR	CB-OG1	42.60	2.12	1.43
1	J	648	THR	CB-OG1	42.59	2.11	1.43
1	P	785	GLU	C-N	38.92	1.81	1.33
1	D	623	PHE	CB-CG	35.88	2.33	1.50
1	A	623	PHE	CB-CG	35.87	2.33	1.50
1	M	623	PHE	CB-CG	35.86	2.33	1.50
1	J	623	PHE	CB-CG	35.85	2.33	1.50
1	G	623	PHE	CB-CG	35.85	2.33	1.50
1	P	623	PHE	CB-CG	35.82	2.33	1.50
1	J	649	VAL	CB-CG1	34.01	2.64	1.52
1	G	649	VAL	CB-CG1	34.01	2.64	1.52
1	M	649	VAL	CB-CG1	34.00	2.64	1.52
1	P	649	VAL	CB-CG1	34.00	2.64	1.52
1	D	649	VAL	CB-CG1	33.94	2.64	1.52
1	A	649	VAL	CB-CG1	33.93	2.64	1.52
1	P	648	THR	CB-CG2	-30.77	0.51	1.52
1	M	648	THR	CB-CG2	-30.77	0.51	1.52
1	J	648	THR	CB-CG2	-30.76	0.51	1.52
1	A	648	THR	CB-CG2	-30.76	0.51	1.52
1	D	648	THR	CB-CG2	-30.73	0.51	1.52
1	G	648	THR	CB-CG2	-30.70	0.51	1.52
1	A	649	VAL	CB-CG2	29.55	2.50	1.52
1	G	649	VAL	CB-CG2	29.49	2.49	1.52
1	M	649	VAL	CB-CG2	29.47	2.49	1.52
1	J	649	VAL	CB-CG2	29.46	2.49	1.52
1	P	649	VAL	CB-CG2	29.45	2.49	1.52
1	D	649	VAL	CB-CG2	29.44	2.49	1.52
1	G	649	VAL	C-N	-21.97	1.02	1.33
1	A	649	VAL	C-N	-21.96	1.02	1.33
1	P	649	VAL	C-N	-21.85	1.03	1.33
1	D	649	VAL	C-N	-21.80	1.03	1.33
1	J	649	VAL	C-N	-21.74	1.03	1.33
1	M	649	VAL	C-N	-21.71	1.03	1.33
2	B	140	PHE	C-N	-20.20	1.09	1.33
2	E	140	PHE	C-N	-20.17	1.09	1.33
2	Q	140	PHE	C-N	-20.06	1.09	1.33
2	N	140	PHE	C-N	-20.05	1.09	1.33
2	K	140	PHE	C-N	-19.98	1.09	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	140	PHE	C-N	-19.86	1.09	1.33
1	M	637	LYS	C-N	-18.91	1.05	1.33
1	P	637	LYS	C-N	-18.81	1.06	1.33
1	D	637	LYS	C-N	-18.78	1.06	1.33
1	J	637	LYS	C-N	-18.77	1.06	1.33
1	G	637	LYS	C-N	-18.66	1.06	1.33
1	A	637	LYS	C-N	-18.56	1.06	1.33
1	M	709	LYS	C-N	-17.14	1.08	1.33
1	G	709	LYS	C-N	16.16	1.57	1.33
1	J	785	GLU	C-N	15.21	1.54	1.33
1	M	622	LEU	C-N	13.12	1.54	1.33
1	A	622	LEU	C-N	13.05	1.53	1.33
1	J	622	LEU	C-N	13.05	1.53	1.33
1	D	622	LEU	C-N	13.02	1.53	1.33
1	P	622	LEU	C-N	13.01	1.53	1.33
1	G	622	LEU	C-N	12.93	1.53	1.33
2	K	150	TYR	CA-CB	-11.47	1.35	1.53
1	G	785	GLU	C-N	11.39	1.49	1.33
2	N	150	TYR	CA-CB	-11.36	1.35	1.53
2	H	150	TYR	CA-CB	-11.34	1.36	1.53
2	Q	150	TYR	CA-CB	-11.32	1.36	1.53
2	E	150	TYR	CA-CB	-11.17	1.36	1.53
1	D	201	ALA	CA-C	-10.88	1.47	1.53
2	Q	150	TYR	N-CA	-10.87	1.33	1.46
1	A	201	ALA	CA-C	-10.84	1.47	1.53
2	K	150	TYR	N-CA	-10.74	1.33	1.46
2	E	150	TYR	N-CA	-10.73	1.33	1.46
2	H	150	TYR	N-CA	-10.70	1.33	1.46
2	N	150	TYR	N-CA	-10.62	1.34	1.46
2	K	141	PRO	N-CD	-10.51	1.33	1.47
1	P	201	ALA	CA-C	-10.50	1.47	1.53
1	J	201	ALA	CA-C	-10.43	1.47	1.53
1	M	201	ALA	CA-C	-10.42	1.47	1.53
2	B	141	PRO	N-CD	-10.42	1.33	1.47
2	B	150	TYR	CA-CB	-10.42	1.35	1.53
2	N	141	PRO	N-CD	-10.40	1.33	1.47
1	G	201	ALA	CA-C	-10.38	1.48	1.53
2	E	141	PRO	N-CD	-10.37	1.33	1.47
2	Q	141	PRO	N-CD	-10.32	1.33	1.47
2	H	141	PRO	N-CD	-10.22	1.33	1.47
2	B	150	TYR	N-CA	-9.77	1.33	1.46
2	N	150	TYR	CB-CG	-9.15	1.31	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	150	TYR	CB-CG	-9.14	1.31	1.51
2	H	150	TYR	CB-CG	-9.12	1.31	1.51
2	K	150	TYR	CB-CG	-9.08	1.31	1.51
2	E	150	TYR	CB-CG	-9.05	1.31	1.51
2	B	150	TYR	CB-CG	-9.04	1.31	1.51
1	D	218	LEU	C-N	-8.63	1.21	1.33
2	K	131	GLU	N-CA	8.55	1.57	1.46
1	A	218	LEU	C-N	-8.54	1.21	1.33
1	M	218	LEU	C-N	-8.54	1.21	1.33
1	J	218	LEU	C-N	-8.54	1.21	1.33
2	Q	131	GLU	N-CA	8.54	1.57	1.46
1	P	218	LEU	C-N	-8.53	1.21	1.33
2	H	131	GLU	N-CA	8.48	1.57	1.46
2	N	131	GLU	N-CA	8.47	1.57	1.46
1	G	218	LEU	C-N	-8.46	1.21	1.33
2	B	131	GLU	N-CA	8.45	1.57	1.46
2	E	131	GLU	N-CA	8.43	1.57	1.46
2	H	149	ASP	C-N	-8.22	1.23	1.33
2	E	149	ASP	C-N	-8.15	1.23	1.33
2	Q	149	ASP	C-N	-8.01	1.23	1.33
2	N	149	ASP	C-N	-8.01	1.23	1.33
1	J	709	LYS	C-N	7.96	1.45	1.33
2	K	149	ASP	C-N	-7.95	1.23	1.33
1	G	218	LEU	CB-CG	7.92	1.69	1.53
1	A	218	LEU	CB-CG	7.78	1.69	1.53
1	J	218	LEU	CB-CG	7.77	1.69	1.53
1	P	218	LEU	CB-CG	7.73	1.69	1.53
1	D	218	LEU	CB-CG	7.72	1.68	1.53
1	M	218	LEU	CB-CG	7.68	1.68	1.53
2	H	140	PHE	CA-C	-7.49	1.43	1.52
4	0	101	HIS	CD2-NE2	-7.46	1.29	1.37
4	5	101	HIS	CD2-NE2	-7.45	1.29	1.37
4	Y	101	HIS	CD2-NE2	-7.45	1.29	1.37
4	3	101	HIS	CD2-NE2	-7.44	1.29	1.37
4	1	101	HIS	CD2-NE2	-7.43	1.29	1.37
4	8	101	HIS	CD2-NE2	-7.42	1.29	1.37
4	Z	101	HIS	CD2-NE2	-7.42	1.29	1.37
4	2	101	HIS	CD2-NE2	-7.41	1.29	1.37
4	V	101	HIS	CD2-NE2	-7.40	1.29	1.37
4	4	101	HIS	CD2-NE2	-7.38	1.29	1.37
4	9	88	HIS	CD2-NE2	-7.38	1.29	1.37
2	B	140	PHE	CA-C	-7.38	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	7	101	HIS	CD2-NE2	-7.37	1.29	1.37
4	0	87	HIS	CD2-NE2	-7.36	1.29	1.37
4	9	101	HIS	CD2-NE2	-7.36	1.29	1.37
3	C	63	ILE	CA-CB	7.36	1.66	1.55
4	Z	88	HIS	CD2-NE2	-7.36	1.29	1.37
4	7	87	HIS	CD2-NE2	-7.34	1.29	1.37
4	3	88	HIS	CD2-NE2	-7.34	1.29	1.37
4	8	88	HIS	CD2-NE2	-7.34	1.29	1.37
4	V	88	HIS	CD2-NE2	-7.33	1.29	1.37
3	F	63	ILE	CA-CB	7.31	1.66	1.55
4	X	88	HIS	CD2-NE2	-7.31	1.29	1.37
4	1	88	HIS	CD2-NE2	-7.31	1.29	1.37
4	4	88	HIS	CD2-NE2	-7.30	1.29	1.37
4	W	88	HIS	CD2-NE2	-7.30	1.29	1.37
4	4	87	HIS	CD2-NE2	-7.30	1.29	1.37
4	7	88	HIS	CD2-NE2	-7.29	1.29	1.37
2	K	140	PHE	CA-C	-7.29	1.43	1.52
4	Y	275	HIS	CD2-NE2	-7.29	1.29	1.37
4	Z	87	HIS	CD2-NE2	-7.28	1.29	1.37
4	0	88	HIS	CD2-NE2	-7.28	1.29	1.37
2	N	140	PHE	CA-C	-7.28	1.43	1.52
4	W	101	HIS	CD2-NE2	-7.28	1.29	1.37
3	L	63	ILE	CA-CB	7.28	1.66	1.55
4	V	275	HIS	CD2-NE2	-7.28	1.29	1.37
4	W	87	HIS	CD2-NE2	-7.27	1.29	1.37
4	2	88	HIS	CD2-NE2	-7.27	1.29	1.37
4	5	88	HIS	CD2-NE2	-7.27	1.29	1.37
3	O	63	ILE	CA-CB	7.26	1.66	1.55
4	X	87	HIS	CD2-NE2	-7.26	1.29	1.37
4	X	101	HIS	CD2-NE2	-7.26	1.29	1.37
4	Y	87	HIS	CD2-NE2	-7.26	1.29	1.37
4	3	87	HIS	CD2-NE2	-7.24	1.29	1.37
3	R	63	ILE	CA-CB	7.24	1.66	1.55
4	2	87	HIS	CD2-NE2	-7.24	1.29	1.37
4	2	275	HIS	CD2-NE2	-7.24	1.29	1.37
4	3	275	HIS	CD2-NE2	-7.22	1.29	1.37
4	Y	88	HIS	CD2-NE2	-7.22	1.29	1.37
1	J	496	PHE	C-N	-7.22	1.24	1.33
1	D	496	PHE	C-N	-7.22	1.24	1.33
3	I	63	ILE	CA-CB	7.22	1.66	1.55
1	P	496	PHE	C-N	-7.21	1.24	1.33
4	1	87	HIS	CD2-NE2	-7.21	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Q	140	PHE	CA-C	-7.21	1.43	1.52
4	0	275	HIS	CD2-NE2	-7.21	1.29	1.37
4	5	275	HIS	CD2-NE2	-7.21	1.29	1.37
2	E	140	PHE	CA-C	-7.20	1.43	1.52
4	8	87	HIS	CD2-NE2	-7.20	1.29	1.37
4	5	87	HIS	CD2-NE2	-7.19	1.29	1.37
1	M	496	PHE	C-N	-7.18	1.24	1.33
4	4	275	HIS	CD2-NE2	-7.18	1.29	1.37
4	W	275	HIS	CD2-NE2	-7.18	1.29	1.37
2	B	149	ASP	C-N	-7.17	1.23	1.33
4	V	87	HIS	CD2-NE2	-7.16	1.29	1.37
1	A	496	PHE	C-N	-7.15	1.25	1.33
4	8	275	HIS	CD2-NE2	-7.15	1.29	1.37
4	7	275	HIS	CD2-NE2	-7.15	1.29	1.37
4	1	275	HIS	CD2-NE2	-7.14	1.29	1.37
4	Z	275	HIS	CD2-NE2	-7.14	1.29	1.37
2	B	150	TYR	CG-CD2	-7.14	1.24	1.39
4	8	40	HIS	CD2-NE2	-7.14	1.29	1.37
4	3	40	HIS	CD2-NE2	-7.13	1.30	1.37
4	9	87	HIS	CD2-NE2	-7.13	1.30	1.37
4	X	275	HIS	CD2-NE2	-7.13	1.30	1.37
4	9	275	HIS	CD2-NE2	-7.10	1.30	1.37
2	H	150	TYR	CG-CD2	-7.09	1.24	1.39
1	G	496	PHE	C-N	-7.09	1.25	1.33
2	Q	150	TYR	CG-CD2	-7.07	1.24	1.39
4	Z	40	HIS	CD2-NE2	-7.06	1.30	1.37
2	E	150	TYR	CG-CD2	-7.05	1.24	1.39
2	K	150	TYR	CG-CD2	-7.05	1.24	1.39
4	7	40	HIS	CD2-NE2	-7.04	1.30	1.37
4	5	40	HIS	CD2-NE2	-7.03	1.30	1.37
4	X	40	HIS	CD2-NE2	-7.03	1.30	1.37
4	9	40	HIS	CD2-NE2	-7.02	1.30	1.37
2	E	141	PRO	CA-CB	-7.02	1.44	1.54
2	K	141	PRO	CA-CB	-7.02	1.44	1.54
4	W	40	HIS	CD2-NE2	-7.01	1.30	1.37
2	N	150	TYR	CG-CD2	-7.00	1.24	1.39
2	Q	141	PRO	CA-CB	-6.99	1.44	1.54
2	H	141	PRO	CA-CB	-6.99	1.44	1.54
4	0	40	HIS	CD2-NE2	-6.98	1.30	1.37
2	N	141	PRO	CA-CB	-6.98	1.44	1.54
4	V	40	HIS	CD2-NE2	-6.98	1.30	1.37
2	N	138	ALA	C-N	-6.97	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	Y	40	HIS	CD2-NE2	-6.97	1.30	1.37
2	B	141	PRO	CA-CB	-6.96	1.44	1.54
4	4	40	HIS	CD2-NE2	-6.95	1.30	1.37
2	K	138	ALA	C-N	-6.93	1.23	1.33
1	G	288	PHE	CA-C	-6.91	1.44	1.52
2	H	138	ALA	C-N	-6.91	1.23	1.33
4	2	40	HIS	CD2-NE2	-6.90	1.30	1.37
2	Q	138	ALA	C-N	-6.88	1.23	1.33
2	B	140	PHE	C-O	-6.84	1.15	1.24
2	B	138	ALA	C-N	-6.81	1.23	1.33
1	G	177	ILE	C-O	-6.80	1.16	1.24
2	E	138	ALA	C-N	-6.80	1.23	1.33
1	D	288	PHE	CA-C	-6.80	1.44	1.52
2	K	140	PHE	C-O	-6.79	1.15	1.24
1	A	177	ILE	C-O	-6.78	1.16	1.24
1	D	177	ILE	C-O	-6.78	1.16	1.24
2	Q	140	PHE	C-O	-6.78	1.15	1.24
4	1	40	HIS	CD2-NE2	-6.78	1.30	1.37
1	M	288	PHE	CA-C	-6.75	1.44	1.52
1	P	177	ILE	C-O	-6.75	1.16	1.24
1	D	641	LYS	C-N	-6.73	1.25	1.34
1	M	177	ILE	C-O	-6.73	1.16	1.24
1	A	288	PHE	CA-C	-6.73	1.44	1.52
1	J	288	PHE	CA-C	-6.73	1.44	1.52
2	H	140	PHE	C-O	-6.72	1.15	1.24
1	A	637	LYS	C-O	6.72	1.32	1.24
1	P	288	PHE	CA-C	-6.72	1.44	1.52
2	N	140	PHE	C-O	-6.72	1.15	1.24
1	J	177	ILE	C-O	-6.68	1.16	1.24
1	M	568	PRO	CA-C	-6.66	1.44	1.52
1	J	568	PRO	CA-C	-6.66	1.44	1.52
1	P	568	PRO	CA-C	-6.65	1.44	1.52
1	A	523	ILE	CA-CB	-6.62	1.46	1.54
4	Z	371	HIS	CD2-NE2	-6.61	1.30	1.37
1	A	641	LYS	C-N	-6.61	1.25	1.34
2	E	140	PHE	C-O	-6.60	1.15	1.24
4	X	371	HIS	CD2-NE2	-6.60	1.30	1.37
1	G	201	ALA	C-N	-6.58	1.24	1.33
4	9	371	HIS	CD2-NE2	-6.58	1.30	1.37
1	G	637	LYS	C-O	6.57	1.32	1.24
4	3	371	HIS	CD2-NE2	-6.57	1.30	1.37
4	8	371	HIS	CD2-NE2	-6.57	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	637	LYS	C-O	6.56	1.32	1.24
1	A	496	PHE	C-O	-6.56	1.16	1.24
4	5	371	HIS	CD2-NE2	-6.55	1.30	1.37
1	G	496	PHE	C-O	-6.55	1.16	1.24
1	G	568	PRO	CA-C	-6.55	1.44	1.52
4	4	371	HIS	CD2-NE2	-6.55	1.30	1.37
1	D	568	PRO	CA-C	-6.54	1.44	1.52
1	J	637	LYS	C-O	6.54	1.32	1.24
4	1	371	HIS	CD2-NE2	-6.53	1.30	1.37
4	0	371	HIS	CD2-NE2	-6.53	1.30	1.37
4	Y	371	HIS	CD2-NE2	-6.52	1.30	1.37
1	J	641	LYS	C-N	-6.52	1.25	1.34
1	G	641	LYS	C-N	-6.52	1.25	1.34
4	7	371	HIS	CD2-NE2	-6.52	1.30	1.37
1	P	637	LYS	C-O	6.51	1.32	1.24
4	W	371	HIS	CD2-NE2	-6.50	1.30	1.37
1	D	637	LYS	C-O	6.50	1.32	1.24
4	V	371	HIS	CD2-NE2	-6.50	1.30	1.37
4	9	88	HIS	CG-ND1	-6.49	1.31	1.38
1	M	641	LYS	C-N	-6.48	1.25	1.34
1	M	496	PHE	C-O	-6.47	1.16	1.24
4	2	101	HIS	CG-ND1	-6.47	1.31	1.38
1	P	201	ALA	C-N	-6.46	1.24	1.33
1	P	641	LYS	C-N	-6.46	1.25	1.34
4	Z	101	HIS	CG-ND1	-6.45	1.31	1.38
1	D	523	ILE	CA-CB	-6.45	1.46	1.54
4	2	371	HIS	CD2-NE2	-6.45	1.30	1.37
1	A	568	PRO	CA-C	-6.45	1.44	1.52
4	5	88	HIS	CG-ND1	-6.45	1.31	1.38
4	3	101	HIS	CG-ND1	-6.43	1.31	1.38
4	5	101	HIS	CG-ND1	-6.43	1.31	1.38
2	N	123	THR	C-N	-6.43	1.24	1.33
4	0	101	HIS	CG-ND1	-6.43	1.31	1.38
1	J	496	PHE	C-O	-6.42	1.16	1.24
4	W	101	HIS	CG-ND1	-6.42	1.31	1.38
1	P	496	PHE	C-O	-6.42	1.16	1.24
1	M	201	ALA	C-N	-6.42	1.24	1.33
1	J	201	ALA	C-N	-6.41	1.24	1.33
2	Q	123	THR	C-N	-6.40	1.24	1.33
4	1	88	HIS	CG-ND1	-6.40	1.31	1.38
1	D	496	PHE	C-O	-6.40	1.16	1.24
4	4	88	HIS	CG-ND1	-6.40	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	123	THR	C-N	-6.39	1.24	1.33
4	3	88	HIS	CG-ND1	-6.39	1.31	1.38
4	W	88	HIS	CG-ND1	-6.39	1.31	1.38
1	G	523	ILE	CA-CB	-6.38	1.47	1.54
4	4	101	HIS	CG-ND1	-6.38	1.31	1.38
1	A	201	ALA	C-N	-6.38	1.24	1.33
4	X	88	HIS	CG-ND1	-6.38	1.31	1.38
4	7	101	HIS	CG-ND1	-6.38	1.31	1.38
4	V	88	HIS	CG-ND1	-6.38	1.31	1.38
4	Y	88	HIS	CG-ND1	-6.38	1.31	1.38
3	C	62	ALA	C-N	-6.37	1.26	1.33
4	8	88	HIS	CG-ND1	-6.37	1.31	1.38
3	I	62	ALA	C-N	-6.36	1.26	1.33
4	0	88	HIS	CG-ND1	-6.36	1.31	1.38
4	Z	88	HIS	CG-ND1	-6.36	1.31	1.38
3	R	64	THR	N-CA	-6.36	1.38	1.46
2	K	123	THR	C-N	-6.36	1.24	1.33
4	2	88	HIS	CG-ND1	-6.35	1.31	1.38
4	V	101	HIS	CG-ND1	-6.35	1.31	1.38
1	D	201	ALA	C-N	-6.35	1.24	1.33
4	7	88	HIS	CG-ND1	-6.35	1.31	1.38
4	8	101	HIS	CG-ND1	-6.34	1.31	1.38
4	1	101	HIS	CG-ND1	-6.33	1.31	1.38
4	Y	101	HIS	CG-ND1	-6.30	1.31	1.38
4	X	101	HIS	CG-ND1	-6.29	1.31	1.38
1	P	523	ILE	CA-CB	-6.29	1.47	1.54
3	O	64	THR	N-CA	-6.27	1.38	1.46
4	9	101	HIS	CG-ND1	-6.26	1.31	1.38
3	L	64	THR	N-CA	-6.26	1.38	1.46
2	E	123	THR	C-N	-6.24	1.24	1.33
1	M	523	ILE	CA-CB	-6.23	1.47	1.54
3	R	62	ALA	C-N	-6.20	1.26	1.33
1	J	523	ILE	CA-CB	-6.16	1.47	1.54
2	H	123	THR	C-N	-6.13	1.24	1.33
3	F	62	ALA	C-N	-6.12	1.26	1.33
3	O	62	ALA	C-N	-6.12	1.26	1.33
3	L	62	ALA	C-N	-6.07	1.26	1.33
3	I	64	THR	N-CA	-6.06	1.38	1.46
3	F	64	THR	N-CA	-6.03	1.38	1.46
3	O	63	ILE	CB-CG1	6.02	1.65	1.53
3	F	63	ILE	CB-CG1	6.01	1.65	1.53
3	C	64	THR	N-CA	-6.01	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	63	ILE	CB-CG1	6.00	1.65	1.53
3	L	63	ILE	CB-CG1	5.99	1.65	1.53
4	1	161	HIS	CD2-NE2	-5.99	1.31	1.37
3	I	63	ILE	CB-CG1	5.99	1.65	1.53
3	R	63	ILE	CB-CG1	5.98	1.65	1.53
1	M	358	VAL	C-O	-5.96	1.17	1.24
4	2	173	HIS	CD2-NE2	-5.96	1.31	1.37
4	8	161	HIS	CD2-NE2	-5.94	1.31	1.37
4	X	173	HIS	CD2-NE2	-5.94	1.31	1.37
1	P	358	VAL	C-O	-5.93	1.17	1.24
1	J	358	VAL	C-O	-5.92	1.17	1.24
4	3	173	HIS	CD2-NE2	-5.92	1.31	1.37
4	1	173	HIS	CD2-NE2	-5.92	1.31	1.37
4	9	161	HIS	CD2-NE2	-5.92	1.31	1.37
4	0	173	HIS	CD2-NE2	-5.91	1.31	1.37
4	8	173	HIS	CD2-NE2	-5.91	1.31	1.37
1	P	514	ASP	C-O	-5.89	1.17	1.23
4	X	161	HIS	CD2-NE2	-5.89	1.31	1.37
4	V	161	HIS	CD2-NE2	-5.89	1.31	1.37
4	W	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	4	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	V	173	HIS	CD2-NE2	-5.88	1.31	1.37
4	2	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	Y	161	HIS	CD2-NE2	-5.88	1.31	1.37
1	G	358	VAL	C-O	-5.87	1.17	1.24
4	0	161	HIS	CD2-NE2	-5.87	1.31	1.37
4	7	161	HIS	CD2-NE2	-5.86	1.31	1.37
4	W	173	HIS	CD2-NE2	-5.86	1.31	1.37
4	3	161	HIS	CD2-NE2	-5.85	1.31	1.37
4	Z	173	HIS	CD2-NE2	-5.85	1.31	1.37
4	4	173	HIS	CD2-NE2	-5.85	1.31	1.37
4	5	161	HIS	CD2-NE2	-5.84	1.31	1.37
1	G	514	ASP	C-O	-5.83	1.17	1.23
4	7	173	HIS	CD2-NE2	-5.83	1.31	1.37
4	Z	161	HIS	CD2-NE2	-5.83	1.31	1.37
4	5	173	HIS	CD2-NE2	-5.82	1.31	1.37
4	9	173	HIS	CD2-NE2	-5.82	1.31	1.37
1	A	514	ASP	C-O	-5.81	1.17	1.23
1	D	358	VAL	C-O	-5.78	1.17	1.24
4	Y	173	HIS	CD2-NE2	-5.78	1.31	1.37
1	M	514	ASP	C-O	-5.78	1.17	1.23
1	A	217	THR	N-CA	5.78	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	514	ASP	C-O	-5.78	1.17	1.23
1	J	514	ASP	C-O	-5.77	1.17	1.23
1	M	434	TYR	CA-CB	-5.77	1.44	1.53
1	J	434	TYR	CA-CB	-5.76	1.44	1.53
1	P	434	TYR	CA-CB	-5.76	1.44	1.53
1	A	434	TYR	CA-CB	-5.75	1.44	1.53
1	A	358	VAL	C-O	-5.71	1.17	1.24
1	G	434	TYR	CA-CB	-5.69	1.44	1.53
1	M	578	HIS	N-CA	5.68	1.53	1.46
1	A	625	THR	CB-CG2	5.67	1.71	1.52
1	D	217	THR	N-CA	5.67	1.53	1.45
1	M	217	THR	N-CA	5.67	1.53	1.45
1	D	625	THR	CB-CG2	5.65	1.71	1.52
1	P	625	THR	CB-CG2	5.65	1.71	1.52
1	D	434	TYR	CA-CB	-5.64	1.44	1.53
1	P	578	HIS	N-CA	5.64	1.53	1.46
1	J	625	THR	CB-CG2	5.62	1.71	1.52
1	M	625	THR	CB-CG2	5.62	1.71	1.52
1	J	217	THR	N-CA	5.62	1.52	1.45
1	P	217	THR	N-CA	5.61	1.52	1.45
1	G	625	THR	CB-CG2	5.60	1.71	1.52
4	0	275	HIS	CG-ND1	-5.56	1.32	1.38
1	J	578	HIS	N-CA	5.55	1.53	1.46
1	A	578	HIS	N-CA	5.54	1.53	1.46
4	5	275	HIS	CG-ND1	-5.53	1.32	1.38
4	8	275	HIS	CG-ND1	-5.53	1.32	1.38
1	G	217	THR	N-CA	5.52	1.52	1.45
4	V	275	HIS	CG-ND1	-5.52	1.32	1.38
4	1	275	HIS	CG-ND1	-5.52	1.32	1.38
1	D	641	LYS	C-O	5.51	1.31	1.24
4	X	275	HIS	CG-ND1	-5.51	1.32	1.38
1	G	233	GLY	C-O	-5.51	1.20	1.24
4	Y	275	HIS	CG-ND1	-5.50	1.32	1.38
4	Z	275	HIS	CG-ND1	-5.50	1.32	1.38
4	2	275	HIS	CG-ND1	-5.50	1.32	1.38
4	W	275	HIS	CG-ND1	-5.49	1.32	1.38
4	3	275	HIS	CG-ND1	-5.49	1.32	1.38
4	9	275	HIS	CG-ND1	-5.48	1.32	1.38
1	D	578	HIS	N-CA	5.47	1.53	1.46
4	7	275	HIS	CG-ND1	-5.47	1.32	1.38
4	4	275	HIS	CG-ND1	-5.47	1.32	1.38
1	J	641	LYS	C-O	5.44	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	641	LYS	C-O	5.44	1.31	1.24
1	A	641	LYS	C-O	5.43	1.31	1.24
1	G	641	LYS	C-O	5.41	1.30	1.24
1	M	340	ILE	CA-C	-5.41	1.45	1.52
1	P	641	LYS	C-O	5.41	1.30	1.24
1	G	578	HIS	N-CA	5.40	1.53	1.46
1	P	340	ILE	CA-C	-5.37	1.45	1.52
1	G	340	ILE	CA-C	-5.36	1.45	1.52
1	D	233	GLY	C-O	-5.36	1.20	1.24
1	J	340	ILE	CA-C	-5.36	1.45	1.52
1	D	340	ILE	CA-C	-5.35	1.45	1.52
1	J	233	GLY	C-O	-5.33	1.20	1.24
1	J	476	GLU	CD-OE1	5.32	1.35	1.25
2	E	129	THR	N-CA	5.32	1.53	1.46
1	G	671	PHE	C-O	-5.31	1.17	1.23
1	P	252	ILE	CA-C	-5.31	1.46	1.52
2	K	129	THR	N-CA	5.31	1.53	1.46
1	A	233	GLY	C-O	-5.29	1.20	1.24
1	M	476	GLU	CD-OE1	5.29	1.35	1.25
1	P	476	GLU	CD-OE1	5.29	1.35	1.25
1	M	482	PHE	C-O	-5.29	1.18	1.24
1	J	104	TYR	C-O	-5.28	1.17	1.24
1	G	104	TYR	C-O	-5.28	1.17	1.24
1	G	252	ILE	CA-C	-5.27	1.46	1.52
1	A	671	PHE	C-O	-5.27	1.17	1.23
1	D	104	TYR	C-O	-5.27	1.17	1.24
2	B	129	THR	N-CA	5.26	1.53	1.46
1	M	252	ILE	CA-C	-5.26	1.46	1.52
1	A	482	PHE	C-O	-5.26	1.18	1.24
1	G	482	PHE	C-O	-5.25	1.18	1.24
1	D	476	GLU	CD-OE1	5.25	1.35	1.25
1	M	671	PHE	C-O	-5.25	1.17	1.23
1	P	233	GLY	C-O	-5.24	1.20	1.24
1	J	252	ILE	CA-C	-5.24	1.46	1.52
1	D	619	LEU	CA-C	-5.24	1.46	1.52
1	A	340	ILE	CA-C	-5.23	1.45	1.52
1	D	252	ILE	CA-C	-5.22	1.46	1.52
2	N	129	THR	N-CA	5.22	1.53	1.46
1	M	233	GLY	C-O	-5.22	1.20	1.24
4	7	259	GLU	CA-CB	5.21	1.62	1.53
1	G	476	GLU	CD-OE1	5.21	1.35	1.25
2	H	129	THR	N-CA	5.21	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	309	PRO	CA-CB	-5.20	1.46	1.53
1	D	671	PHE	C-O	-5.20	1.17	1.23
4	X	259	GLU	CA-CB	5.20	1.62	1.53
4	Z	259	GLU	CA-CB	5.20	1.62	1.53
4	1	259	GLU	CA-CB	5.19	1.62	1.53
1	A	476	GLU	CD-OE1	5.19	1.35	1.25
4	5	259	GLU	CA-CB	5.19	1.62	1.53
1	M	309	PRO	CA-CB	-5.18	1.46	1.53
1	P	482	PHE	C-O	-5.18	1.18	1.24
4	3	259	GLU	CA-CB	5.18	1.62	1.53
4	8	259	GLU	CA-CB	5.18	1.62	1.53
1	G	619	LEU	CA-C	-5.18	1.46	1.52
1	A	252	ILE	CA-C	-5.18	1.46	1.52
4	W	259	GLU	CA-CB	5.18	1.62	1.53
2	N	149	ASP	CA-C	-5.18	1.46	1.53
4	4	214	GLU	CA-CB	5.17	1.61	1.53
4	0	259	GLU	CA-CB	5.17	1.62	1.53
1	M	104	TYR	C-O	-5.17	1.17	1.24
1	P	104	TYR	C-O	-5.17	1.17	1.24
1	P	671	PHE	C-O	-5.17	1.17	1.23
4	2	214	GLU	CA-CB	5.17	1.61	1.53
2	Q	149	ASP	CA-C	-5.17	1.46	1.53
4	4	259	GLU	CA-CB	5.17	1.62	1.53
4	2	259	GLU	CA-CB	5.17	1.62	1.53
1	J	482	PHE	C-O	-5.16	1.18	1.24
4	Y	259	GLU	CA-CB	5.16	1.62	1.53
1	D	482	PHE	C-O	-5.16	1.18	1.24
1	D	766	PHE	N-CA	-5.16	1.39	1.46
1	J	671	PHE	C-O	-5.16	1.17	1.23
1	J	157	SER	CA-C	-5.15	1.46	1.52
2	Q	129	THR	N-CA	5.15	1.53	1.46
1	G	309	PRO	CA-CB	-5.15	1.46	1.53
1	G	177	ILE	CA-CB	-5.14	1.48	1.54
1	J	644	SER	C-O	5.13	1.30	1.24
4	V	259	GLU	CA-CB	5.13	1.62	1.53
1	M	202	SER	CB-OG	5.13	1.52	1.42
1	M	157	SER	CA-C	-5.13	1.46	1.52
1	A	309	PRO	CA-CB	-5.12	1.46	1.53
1	J	309	PRO	CA-CB	-5.12	1.46	1.53
4	9	259	GLU	CA-CB	5.11	1.62	1.53
1	J	202	SER	CB-OG	5.11	1.52	1.42
4	8	214	GLU	CA-CB	5.11	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	157	SER	CA-C	-5.11	1.46	1.52
1	P	309	PRO	CA-CB	-5.10	1.46	1.53
2	B	137	TRP	NE1-CE2	-5.10	1.31	1.37
2	E	137	TRP	NE1-CE2	-5.10	1.31	1.37
2	N	137	TRP	NE1-CE2	-5.10	1.31	1.37
1	M	619	LEU	CA-C	-5.10	1.46	1.52
1	P	202	SER	CB-OG	5.10	1.52	1.42
4	5	214	GLU	CA-CB	5.10	1.61	1.53
1	G	202	SER	CB-OG	5.09	1.52	1.42
4	0	214	GLU	CA-CB	5.09	1.61	1.53
1	A	177	ILE	CA-CB	-5.08	1.48	1.54
4	Y	214	GLU	CA-CB	5.08	1.61	1.53
2	K	149	ASP	CA-C	-5.08	1.46	1.53
1	A	104	TYR	C-O	-5.08	1.17	1.24
4	W	214	GLU	CA-CB	5.08	1.61	1.53
1	D	177	ILE	CA-CB	-5.08	1.48	1.54
1	M	277	PHE	CA-C	-5.08	1.46	1.52
1	D	202	SER	CB-OG	5.07	1.52	1.42
1	G	766	PHE	N-CA	-5.07	1.39	1.46
1	A	619	LEU	CA-C	-5.07	1.46	1.52
1	M	177	ILE	CA-CB	-5.07	1.48	1.54
1	A	202	SER	CB-OG	5.06	1.52	1.42
1	G	644	SER	C-O	5.06	1.30	1.24
4	X	214	GLU	CA-CB	5.06	1.61	1.53
1	A	766	PHE	N-CA	-5.06	1.39	1.46
4	7	214	GLU	CA-CB	5.05	1.61	1.53
2	E	149	ASP	CA-C	-5.05	1.46	1.53
1	P	177	ILE	CA-CB	-5.05	1.48	1.54
1	P	672	VAL	C-O	-5.04	1.18	1.24
1	P	644	SER	C-O	5.04	1.30	1.24
1	J	619	LEU	CA-C	-5.03	1.46	1.52
1	A	157	SER	CA-C	-5.03	1.46	1.52
1	P	745	GLU	CD-OE2	5.03	1.34	1.25
4	3	214	GLU	CA-CB	5.03	1.61	1.53
1	J	277	PHE	CA-C	-5.03	1.46	1.52
1	A	334	THR	CA-C	-5.03	1.46	1.52
1	J	177	ILE	CA-CB	-5.03	1.48	1.54
1	P	619	LEU	CA-C	-5.02	1.46	1.52
1	P	277	PHE	CA-C	-5.02	1.46	1.52
2	B	149	ASP	CA-C	-5.02	1.46	1.53
1	M	766	PHE	N-CA	-5.01	1.40	1.46
1	A	277	PHE	CA-C	-5.01	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	130	PRO	C-N	5.01	1.40	1.33
4	1	214	GLU	CA-CB	5.01	1.61	1.53
1	M	41	VAL	CA-CB	-5.01	1.49	1.54
2	K	137	TRP	NE1-CE2	-5.00	1.31	1.37
1	M	672	VAL	C-O	-5.00	1.19	1.24

All (2464) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	637	LYS	O-C-N	-74.33	23.73	122.59
1	D	637	LYS	O-C-N	-74.28	23.79	122.59
1	M	637	LYS	O-C-N	-74.28	23.80	122.59
1	J	637	LYS	O-C-N	-74.26	23.83	122.59
1	P	637	LYS	O-C-N	-74.25	23.83	122.59
1	A	637	LYS	O-C-N	-74.25	23.84	122.59
1	J	709	LYS	O-C-N	-61.62	52.92	122.55
1	J	648	THR	CA-CB-OG1	-44.81	42.38	109.60
1	A	648	THR	CA-CB-OG1	-44.79	42.41	109.60
1	M	648	THR	CA-CB-OG1	-44.79	42.42	109.60
1	P	648	THR	CA-CB-OG1	-44.79	42.42	109.60
1	D	648	THR	CA-CB-OG1	-44.78	42.42	109.60
1	G	648	THR	CA-CB-OG1	-44.75	42.48	109.60
1	P	785	GLU	O-C-N	-32.99	78.72	122.59
1	M	623	PHE	CA-CB-CG	-29.35	84.45	113.80
1	A	623	PHE	CA-CB-CG	-29.33	84.47	113.80
1	J	623	PHE	CA-CB-CG	-29.33	84.47	113.80
1	P	623	PHE	CA-CB-CG	-29.29	84.51	113.80
1	D	623	PHE	CA-CB-CG	-29.22	84.58	113.80
1	G	623	PHE	CA-CB-CG	-29.17	84.63	113.80
1	G	649	VAL	CA-CB-CG1	-24.87	68.11	110.40
1	D	649	VAL	CA-CB-CG1	-24.86	68.14	110.40
1	P	649	VAL	CA-CB-CG1	-24.86	68.15	110.40
1	M	649	VAL	CA-CB-CG1	-24.84	68.18	110.40
1	J	649	VAL	CA-CB-CG1	-24.83	68.19	110.40
1	A	649	VAL	CA-CB-CG1	-24.81	68.22	110.40
1	P	649	VAL	CG1-CB-CG2	-24.70	56.46	110.80
1	J	649	VAL	CG1-CB-CG2	-24.68	56.49	110.80
1	D	649	VAL	CG1-CB-CG2	-24.68	56.50	110.80
1	A	649	VAL	CG1-CB-CG2	-24.68	56.50	110.80
1	M	649	VAL	CG1-CB-CG2	-24.68	56.50	110.80
1	G	649	VAL	CG1-CB-CG2	-24.68	56.51	110.80
1	D	649	VAL	CA-CB-CG2	-24.57	68.63	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	649	VAL	CA-CB-CG2	-24.57	68.64	110.40
1	J	649	VAL	CA-CB-CG2	-24.56	68.66	110.40
1	P	649	VAL	CA-CB-CG2	-24.56	68.65	110.40
1	G	649	VAL	CA-CB-CG2	-24.55	68.67	110.40
1	M	649	VAL	CA-CB-CG2	-24.55	68.67	110.40
1	M	709	LYS	O-C-N	-23.88	91.39	122.19
1	P	785	GLU	CA-C-N	-20.68	95.66	120.88
1	P	785	GLU	C-N-CA	-20.68	95.66	120.88
1	M	648	THR	CA-CB-CG2	-19.98	76.54	110.50
1	D	648	THR	CA-CB-CG2	-19.96	76.56	110.50
1	P	648	THR	CA-CB-CG2	-19.94	76.60	110.50
1	J	648	THR	CA-CB-CG2	-19.92	76.63	110.50
1	A	648	THR	CA-CB-CG2	-19.89	76.69	110.50
1	G	648	THR	CA-CB-CG2	-19.77	76.89	110.50
1	P	786	ILE	O-C-N	18.54	144.55	121.94
1	P	786	ILE	CA-C-N	-17.44	97.92	120.77
1	P	786	ILE	C-N-CA	-17.44	97.92	120.77
1	D	728	ASN	O-C-N	16.28	138.30	122.18
1	M	728	ASN	O-C-N	16.25	138.26	122.18
1	A	728	ASN	O-C-N	16.15	138.17	122.18
1	P	728	ASN	O-C-N	16.14	138.16	122.18
1	J	728	ASN	O-C-N	16.05	138.07	122.18
1	G	728	ASN	O-C-N	15.98	138.00	122.18
3	C	63	ILE	O-C-N	14.27	138.38	122.82
3	I	63	ILE	O-C-N	14.23	138.33	122.82
2	Q	150	TYR	CD1-CG-CD2	14.18	139.37	118.10
2	H	150	TYR	CD1-CG-CD2	14.17	139.35	118.10
2	N	150	TYR	CD1-CG-CD2	14.15	139.32	118.10
2	K	150	TYR	CD1-CG-CD2	14.14	139.32	118.10
2	E	150	TYR	CD1-CG-CD2	14.14	139.31	118.10
2	B	150	TYR	CD1-CG-CD2	14.13	139.29	118.10
3	R	63	ILE	O-C-N	14.09	138.18	122.82
3	F	63	ILE	O-C-N	14.07	138.16	122.82
3	L	63	ILE	O-C-N	14.02	138.10	122.82
3	O	63	ILE	O-C-N	14.01	138.09	122.82
1	G	709	LYS	O-C-N	13.62	141.71	122.36
1	G	568	PRO	O-C-N	13.53	139.79	123.01
1	D	568	PRO	O-C-N	13.52	139.77	123.01
1	A	568	PRO	O-C-N	13.51	139.77	123.01
1	P	568	PRO	O-C-N	13.46	139.70	123.01
1	J	568	PRO	O-C-N	13.44	139.68	123.01
1	M	568	PRO	O-C-N	13.43	139.67	123.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	98	HIS	CB-CA-C	-11.87	87.24	111.22
1	J	98	HIS	CB-CA-C	-11.87	87.25	111.22
1	M	98	HIS	CB-CA-C	-11.86	87.26	111.22
1	G	98	HIS	CB-CA-C	-11.85	87.28	111.22
1	A	98	HIS	CB-CA-C	-11.84	87.30	111.22
1	D	98	HIS	CB-CA-C	-11.83	87.32	111.22
2	Q	150	TYR	CB-CG-CD2	-11.34	103.79	120.80
2	N	150	TYR	CB-CG-CD2	-11.34	103.79	120.80
2	H	150	TYR	CB-CG-CD2	-11.32	103.83	120.80
2	B	150	TYR	CB-CG-CD2	-11.30	103.84	120.80
2	E	150	TYR	CB-CG-CD2	-11.30	103.84	120.80
2	K	150	TYR	CB-CG-CD2	-11.28	103.88	120.80
2	H	150	TYR	CG-CD2-CE2	-11.06	104.61	121.20
1	M	201	ALA	CA-C-O	11.05	125.29	118.33
1	P	201	ALA	CA-C-O	11.04	125.29	118.33
1	J	201	ALA	CA-C-O	11.01	125.27	118.33
1	A	201	ALA	CA-C-O	11.00	125.26	118.33
1	D	201	ALA	CA-C-O	10.99	125.25	118.33
2	N	150	TYR	CG-CD2-CE2	-10.91	104.83	121.20
2	E	150	TYR	CG-CD2-CE2	-10.91	104.83	121.20
2	Q	150	TYR	CG-CD2-CE2	-10.90	104.84	121.20
2	K	150	TYR	CG-CD2-CE2	-10.88	104.88	121.20
2	B	150	TYR	CG-CD2-CE2	-10.84	104.94	121.20
1	G	201	ALA	CA-C-O	10.81	125.14	118.33
1	G	320	ILE	CB-CA-C	-10.61	100.51	110.91
1	P	320	ILE	CB-CA-C	-10.59	100.54	110.91
1	M	320	ILE	CB-CA-C	-10.49	100.63	110.91
1	J	320	ILE	CB-CA-C	-10.48	100.64	110.91
1	A	320	ILE	CB-CA-C	-10.45	100.67	110.91
1	D	320	ILE	CB-CA-C	-10.42	100.70	110.91
2	E	150	TYR	N-CA-CB	-10.33	93.62	110.77
1	A	739	ASP	CA-CB-CG	-10.29	102.31	112.60
2	K	150	TYR	N-CA-CB	-10.28	93.71	110.77
2	N	150	TYR	N-CA-CB	-10.28	93.71	110.77
2	H	150	TYR	N-CA-CB	-10.27	93.72	110.77
1	M	739	ASP	CA-CB-CG	-10.24	102.36	112.60
2	Q	150	TYR	N-CA-CB	-10.23	93.79	110.77
1	G	653	PHE	CA-CB-CG	-10.23	103.57	113.80
1	P	653	PHE	CA-CB-CG	-10.20	103.60	113.80
1	P	739	ASP	CA-CB-CG	-10.19	102.41	112.60
1	A	653	PHE	CA-CB-CG	-10.19	103.61	113.80
1	M	653	PHE	CA-CB-CG	-10.15	103.65	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	653	PHE	CA-CB-CG	-10.14	103.66	113.80
1	D	739	ASP	CA-CB-CG	-10.14	102.46	112.60
1	J	739	ASP	CA-CB-CG	-10.12	102.48	112.60
1	D	653	PHE	CA-CB-CG	-10.08	103.72	113.80
2	E	141	PRO	CA-N-CD	10.07	126.09	112.00
1	G	739	ASP	CA-CB-CG	-10.05	102.55	112.60
2	H	141	PRO	CA-N-CD	10.04	126.06	112.00
2	N	141	PRO	CA-N-CD	10.04	126.05	112.00
2	K	141	PRO	CA-N-CD	10.00	126.00	112.00
2	Q	141	PRO	CA-N-CD	9.98	125.98	112.00
2	B	141	PRO	CA-N-CD	9.96	125.94	112.00
1	P	709	LYS	O-C-N	-9.86	110.51	122.34
2	B	150	TYR	N-CA-CB	-9.84	93.86	110.49
2	H	150	TYR	CG-CD1-CE1	-9.80	106.50	121.20
1	J	693	HIS	CA-CB-CG	-9.79	104.01	113.80
2	E	150	TYR	CG-CD1-CE1	-9.79	106.52	121.20
2	K	150	TYR	CG-CD1-CE1	-9.78	106.53	121.20
1	G	693	HIS	CA-CB-CG	-9.78	104.02	113.80
1	M	693	HIS	CA-CB-CG	-9.78	104.02	113.80
2	N	150	TYR	CG-CD1-CE1	-9.77	106.55	121.20
2	Q	150	TYR	CG-CD1-CE1	-9.77	106.55	121.20
1	D	693	HIS	CA-CB-CG	-9.71	104.09	113.80
2	B	150	TYR	CG-CD1-CE1	-9.71	106.64	121.20
1	P	693	HIS	CA-CB-CG	-9.71	104.09	113.80
1	A	693	HIS	CA-CB-CG	-9.63	104.17	113.80
2	K	138	ALA	O-C-N	-9.41	108.69	122.43
4	W	147	ARG	N-CA-C	9.41	123.33	110.35
1	M	604	ASN	CA-CB-CG	9.40	122.00	112.60
4	V	147	ARG	N-CA-C	9.40	123.32	110.35
1	G	604	ASN	CA-CB-CG	9.40	122.00	112.60
4	4	147	ARG	N-CA-C	9.40	123.32	110.35
2	Q	138	ALA	O-C-N	-9.39	108.71	122.43
4	9	147	ARG	N-CA-C	9.39	123.31	110.35
2	N	138	ALA	O-C-N	-9.39	108.72	122.43
4	5	147	ARG	N-CA-C	9.38	123.30	110.35
4	0	147	ARG	N-CA-C	9.38	123.30	110.35
4	8	147	ARG	N-CA-C	9.38	123.30	110.35
4	X	147	ARG	N-CA-C	9.38	123.29	110.35
4	3	147	ARG	N-CA-C	9.37	123.28	110.35
4	7	147	ARG	N-CA-C	9.37	123.28	110.35
2	H	138	ALA	O-C-N	-9.36	108.76	122.43
1	J	604	ASN	CA-CB-CG	9.36	121.96	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	147	ARG	N-CA-C	9.36	123.27	110.35
4	2	147	ARG	N-CA-C	9.36	123.26	110.35
1	P	604	ASN	CA-CB-CG	9.35	121.95	112.60
2	E	138	ALA	O-C-N	-9.35	108.78	122.43
2	B	138	ALA	O-C-N	-9.34	108.80	122.43
4	1	147	ARG	N-CA-C	9.33	123.22	110.35
4	Y	147	ARG	N-CA-C	9.33	123.22	110.35
1	D	604	ASN	CA-CB-CG	9.30	121.90	112.60
1	A	604	ASN	CA-CB-CG	9.29	121.89	112.60
4	3	3	ASP	CA-CB-CG	9.27	121.87	112.60
4	X	3	ASP	CA-CB-CG	9.27	121.87	112.60
4	1	3	ASP	CA-CB-CG	9.27	121.86	112.60
4	Y	3	ASP	CA-CB-CG	9.26	121.86	112.60
4	0	3	ASP	CA-CB-CG	9.25	121.85	112.60
4	8	3	ASP	CA-CB-CG	9.24	121.84	112.60
4	4	3	ASP	CA-CB-CG	9.24	121.84	112.60
4	7	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	2	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	Z	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	9	3	ASP	CA-CB-CG	9.19	121.79	112.60
4	5	3	ASP	CA-CB-CG	9.18	121.78	112.60
4	W	3	ASP	CA-CB-CG	9.18	121.78	112.60
4	V	3	ASP	CA-CB-CG	9.14	121.75	112.60
1	P	264	ASP	CB-CA-C	-8.88	100.42	111.43
4	3	179	ASP	CA-CB-CG	8.86	121.46	112.60
1	A	264	ASP	CB-CA-C	-8.86	100.45	111.43
4	Z	179	ASP	CA-CB-CG	8.85	121.45	112.60
4	V	179	ASP	CA-CB-CG	8.84	121.44	112.60
4	7	179	ASP	CA-CB-CG	8.83	121.43	112.60
1	J	264	ASP	CB-CA-C	-8.82	100.49	111.43
1	M	264	ASP	CB-CA-C	-8.82	100.50	111.43
4	W	179	ASP	CA-CB-CG	8.81	121.41	112.60
4	4	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	2	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	5	179	ASP	CA-CB-CG	8.80	121.40	112.60
4	9	179	ASP	CA-CB-CG	8.79	121.39	112.60
4	8	179	ASP	CA-CB-CG	8.78	121.38	112.60
4	Y	179	ASP	CA-CB-CG	8.78	121.38	112.60
1	D	264	ASP	CB-CA-C	-8.77	100.56	111.43
4	0	179	ASP	CA-CB-CG	8.77	121.37	112.60
4	X	179	ASP	CA-CB-CG	8.77	121.36	112.60
4	1	179	ASP	CA-CB-CG	8.76	121.36	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	264	ASP	CB-CA-C	-8.74	100.59	111.43
1	M	752	ASP	CA-CB-CG	8.73	121.33	112.60
1	J	752	ASP	CA-CB-CG	8.66	121.26	112.60
1	P	752	ASP	CA-CB-CG	8.61	121.21	112.60
1	D	784	ALA	N-CA-C	-8.60	101.87	111.07
1	G	752	ASP	CA-CB-CG	8.59	121.19	112.60
1	D	752	ASP	CA-CB-CG	8.56	121.16	112.60
1	A	752	ASP	CA-CB-CG	8.53	121.13	112.60
1	M	264	ASP	N-CA-CB	-8.38	97.95	110.86
1	P	264	ASP	N-CA-CB	-8.38	97.96	110.86
1	M	219	GLU	N-CA-C	-8.37	92.97	110.80
1	D	264	ASP	N-CA-CB	-8.36	97.98	110.86
1	J	219	GLU	N-CA-C	-8.35	93.02	110.80
1	A	264	ASP	N-CA-CB	-8.35	98.01	110.86
1	A	752	ASP	CB-CA-C	8.35	121.48	111.22
1	D	752	ASP	CB-CA-C	8.35	121.49	111.22
1	J	264	ASP	N-CA-CB	-8.34	98.02	110.86
1	G	219	GLU	N-CA-C	-8.34	93.04	110.80
1	P	219	GLU	N-CA-C	-8.33	93.06	110.80
1	J	752	ASP	CB-CA-C	8.31	121.44	111.22
1	M	141	LEU	CB-CA-C	-8.31	97.77	110.90
1	G	756	THR	N-CA-CB	-8.31	97.60	110.39
1	M	756	THR	N-CA-CB	-8.30	97.60	110.39
1	G	752	ASP	CB-CA-C	8.30	121.43	111.22
1	P	752	ASP	CB-CA-C	8.30	121.43	111.22
1	P	756	THR	N-CA-CB	-8.29	97.62	110.39
1	G	264	ASP	N-CA-CB	-8.29	98.10	110.86
1	J	756	THR	N-CA-CB	-8.28	97.63	110.39
1	G	141	LEU	CB-CA-C	-8.28	97.82	110.90
1	P	141	LEU	CB-CA-C	-8.28	97.83	110.90
1	M	752	ASP	CB-CA-C	8.27	121.39	111.22
1	D	219	GLU	N-CA-C	-8.26	93.20	110.80
1	A	219	GLU	N-CA-C	-8.25	93.23	110.80
1	D	141	LEU	CB-CA-C	-8.25	97.87	110.90
1	J	141	LEU	CB-CA-C	-8.25	97.87	110.90
1	D	315	VAL	N-CA-C	8.23	119.99	112.17
1	A	75	ASP	N-CA-CB	8.23	122.96	110.79
1	D	756	THR	N-CA-CB	-8.23	97.72	110.39
1	J	75	ASP	N-CA-CB	8.23	122.96	110.79
1	P	75	ASP	N-CA-CB	8.23	122.96	110.79
1	A	756	THR	N-CA-CB	-8.21	97.74	110.39
1	A	141	LEU	CB-CA-C	-8.21	97.92	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	75	ASP	N-CA-CB	8.20	122.93	110.79
1	A	315	VAL	N-CA-C	8.19	119.95	112.17
1	P	315	VAL	N-CA-C	8.17	119.93	112.17
1	J	315	VAL	N-CA-C	8.16	119.92	112.17
1	M	315	VAL	N-CA-C	8.15	119.91	112.17
1	J	800	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	P	625	THR	CA-CB-OG1	8.10	121.74	109.60
1	D	75	ASP	N-CA-CB	8.07	122.74	110.79
1	G	625	THR	CA-CB-OG1	8.07	121.71	109.60
1	M	625	THR	CA-CB-OG1	8.07	121.70	109.60
1	G	315	VAL	N-CA-C	8.06	119.83	112.17
1	D	625	THR	CA-CB-OG1	8.05	121.68	109.60
4	3	363	ASP	CA-CB-CG	8.04	120.64	112.60
4	X	363	ASP	CA-CB-CG	8.02	120.62	112.60
4	4	363	ASP	CA-CB-CG	8.02	120.61	112.60
1	J	625	THR	CA-CB-OG1	8.01	121.61	109.60
1	A	625	THR	CA-CB-OG1	8.00	121.60	109.60
4	5	363	ASP	CA-CB-CG	7.99	120.59	112.60
4	Y	363	ASP	CA-CB-CG	7.99	120.59	112.60
4	0	363	ASP	CA-CB-CG	7.99	120.58	112.60
4	Z	363	ASP	CA-CB-CG	7.98	120.58	112.60
1	D	641	LYS	CA-C-N	7.98	132.03	120.38
1	D	641	LYS	C-N-CA	7.98	132.03	120.38
4	1	363	ASP	CA-CB-CG	7.98	120.58	112.60
4	9	363	ASP	CA-CB-CG	7.97	120.57	112.60
4	W	363	ASP	CA-CB-CG	7.97	120.57	112.60
1	D	800	ARG	NE-CZ-NH2	-7.96	112.04	119.20
1	D	473	ASN	CA-CB-CG	-7.95	104.65	112.60
1	M	473	ASN	CA-CB-CG	-7.94	104.66	112.60
1	G	473	ASN	CA-CB-CG	-7.94	104.66	112.60
4	8	363	ASP	CA-CB-CG	7.94	120.54	112.60
1	M	800	ARG	NE-CZ-NH2	-7.93	112.06	119.20
1	P	473	ASN	CA-CB-CG	-7.93	104.67	112.60
4	V	363	ASP	CA-CB-CG	7.93	120.53	112.60
4	2	128	ASN	CA-CB-CG	7.93	120.53	112.60
4	4	128	ASN	CA-CB-CG	7.93	120.53	112.60
4	7	363	ASP	CA-CB-CG	7.92	120.52	112.60
4	V	128	ASN	CA-CB-CG	7.92	120.52	112.60
4	2	363	ASP	CA-CB-CG	7.92	120.52	112.60
4	W	128	ASN	CA-CB-CG	7.90	120.50	112.60
4	0	128	ASN	CA-CB-CG	7.90	120.50	112.60
4	X	286	ASP	CA-CB-CG	7.90	120.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	800	ARG	NE-CZ-NH2	-7.89	112.09	119.20
4	3	128	ASN	CA-CB-CG	7.89	120.50	112.60
1	A	473	ASN	CA-CB-CG	-7.88	104.72	112.60
4	Y	128	ASN	CA-CB-CG	7.88	120.48	112.60
4	1	128	ASN	CA-CB-CG	7.88	120.48	112.60
4	7	286	ASP	CA-CB-CG	7.88	120.48	112.60
4	8	128	ASN	CA-CB-CG	7.88	120.48	112.60
4	0	286	ASP	CA-CB-CG	7.88	120.48	112.60
2	Q	129	THR	CB-CA-C	-7.87	94.67	110.17
2	N	129	THR	CB-CA-C	-7.87	94.68	110.17
4	8	286	ASP	CA-CB-CG	7.86	120.46	112.60
4	Y	286	ASP	CA-CB-CG	7.86	120.46	112.60
4	Z	128	ASN	CA-CB-CG	7.86	120.46	112.60
1	M	784	ALA	N-CA-C	-7.85	101.69	111.11
4	5	128	ASN	CA-CB-CG	7.85	120.45	112.60
4	X	128	ASN	CA-CB-CG	7.85	120.45	112.60
1	J	473	ASN	CA-CB-CG	-7.84	104.75	112.60
4	9	128	ASN	CA-CB-CG	7.84	120.44	112.60
4	W	286	ASP	CA-CB-CG	7.84	120.44	112.60
4	4	286	ASP	CA-CB-CG	7.84	120.44	112.60
4	7	128	ASN	CA-CB-CG	7.83	120.44	112.60
1	A	547	ASP	N-CA-C	-7.83	102.69	111.07
1	D	547	ASP	N-CA-C	-7.83	102.69	111.07
1	G	547	ASP	N-CA-C	-7.83	102.69	111.07
1	G	800	ARG	NE-CZ-NH2	-7.83	112.15	119.20
4	2	286	ASP	CA-CB-CG	7.83	120.43	112.60
4	3	286	ASP	CA-CB-CG	7.82	120.42	112.60
1	M	641	LYS	CA-C-N	7.81	131.79	120.38
1	M	641	LYS	C-N-CA	7.81	131.79	120.38
1	P	641	LYS	CA-C-N	7.81	131.79	120.38
1	P	641	LYS	C-N-CA	7.81	131.79	120.38
4	1	286	ASP	CA-CB-CG	7.81	120.41	112.60
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
2	K	129	THR	CB-CA-C	-7.81	94.79	110.17
4	V	286	ASP	CA-CB-CG	7.80	120.40	112.60
1	P	547	ASP	N-CA-C	-7.80	102.73	111.07
1	J	641	LYS	CA-C-N	7.80	131.76	120.38
1	J	641	LYS	C-N-CA	7.80	131.76	120.38
4	Z	286	ASP	CA-CB-CG	7.79	120.39	112.60
1	M	547	ASP	N-CA-C	-7.79	102.73	111.07
4	5	286	ASP	CA-CB-CG	7.78	120.38	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	286	ASP	CA-CB-CG	7.77	120.37	112.60
1	P	784	ALA	N-CA-C	-7.77	101.78	111.11
1	G	641	LYS	CA-C-N	7.77	131.72	120.38
1	G	641	LYS	C-N-CA	7.77	131.72	120.38
2	E	129	THR	CB-CA-C	-7.75	94.89	110.17
2	H	129	THR	CB-CA-C	-7.75	94.90	110.17
2	B	129	THR	CB-CA-C	-7.75	94.91	110.17
1	A	800	ARG	NE-CZ-NH2	-7.74	112.23	119.20
1	J	547	ASP	N-CA-C	-7.73	102.80	111.07
1	J	784	ALA	N-CA-C	-7.73	101.84	111.11
1	A	447	GLN	N-CA-CB	7.71	121.46	110.12
1	P	447	GLN	N-CA-CB	7.71	121.45	110.12
1	J	447	GLN	N-CA-CB	7.71	121.45	110.12
1	M	447	GLN	N-CA-CB	7.70	121.44	110.12
4	W	25	ASP	CA-CB-CG	7.69	120.29	112.60
4	5	25	ASP	CA-CB-CG	7.68	120.28	112.60
1	G	75	ASP	N-CA-CB	7.67	123.03	110.91
4	9	25	ASP	CA-CB-CG	7.67	120.27	112.60
4	X	25	ASP	CA-CB-CG	7.67	120.27	112.60
1	A	784	ALA	N-CA-C	-7.66	101.92	111.11
4	4	25	ASP	CA-CB-CG	7.66	120.26	112.60
2	H	149	ASP	N-CA-CB	7.65	120.94	110.38
4	1	25	ASP	CA-CB-CG	7.65	120.25	112.60
4	Z	25	ASP	CA-CB-CG	7.65	120.25	112.60
4	V	25	ASP	CA-CB-CG	7.65	120.25	112.60
1	G	447	GLN	N-CA-CB	7.64	121.36	110.12
4	8	25	ASP	CA-CB-CG	7.63	120.23	112.60
4	0	223	PHE	CA-CB-CG	7.63	121.43	113.80
4	Y	25	ASP	CA-CB-CG	7.63	120.23	112.60
2	B	149	ASP	N-CA-CB	7.62	120.90	110.38
4	3	25	ASP	CA-CB-CG	7.62	120.22	112.60
4	1	223	PHE	CA-CB-CG	7.62	121.42	113.80
1	D	447	GLN	N-CA-CB	7.61	121.31	110.12
4	7	223	PHE	CA-CB-CG	7.61	121.41	113.80
4	X	223	PHE	CA-CB-CG	7.61	121.41	113.80
4	Z	360	GLN	N-CA-C	-7.61	102.68	110.97
4	0	25	ASP	CA-CB-CG	7.61	120.20	112.60
4	0	360	GLN	N-CA-C	-7.61	102.68	110.97
4	5	360	GLN	N-CA-C	-7.61	102.68	110.97
4	Y	223	PHE	CA-CB-CG	7.61	121.41	113.80
4	7	360	GLN	N-CA-C	-7.60	102.68	110.97
1	A	202	SER	CB-CA-C	-7.60	95.30	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	149	ASP	N-CA-CB	7.60	120.86	110.38
1	D	202	SER	CB-CA-C	-7.59	95.31	110.42
4	7	25	ASP	CA-CB-CG	7.59	120.19	112.60
4	3	360	GLN	N-CA-C	-7.59	102.70	110.97
4	8	360	GLN	N-CA-C	-7.59	102.70	110.97
4	W	360	GLN	N-CA-C	-7.59	102.70	110.97
2	Q	149	ASP	N-CA-CB	7.58	120.85	110.38
4	8	252	ASN	OD1-CG-ND2	-7.58	115.02	122.60
1	M	698	ASN	CB-CA-C	-7.58	98.06	110.79
1	P	698	ASN	CB-CA-C	-7.58	98.06	110.79
4	4	360	GLN	N-CA-C	-7.58	102.71	110.97
3	F	62	ALA	CA-C-N	-7.57	112.59	122.51
3	F	62	ALA	C-N-CA	-7.57	112.59	122.51
1	J	698	ASN	CB-CA-C	-7.57	98.07	110.79
4	1	360	GLN	N-CA-C	-7.57	102.72	110.97
4	4	223	PHE	CA-CB-CG	7.57	121.37	113.80
4	Z	223	PHE	CA-CB-CG	7.57	121.37	113.80
4	2	25	ASP	CA-CB-CG	7.57	120.17	112.60
1	A	698	ASN	CB-CA-C	-7.57	98.08	110.79
3	I	62	ALA	CA-C-N	-7.57	112.60	122.51
3	I	62	ALA	C-N-CA	-7.57	112.60	122.51
4	V	360	GLN	N-CA-C	-7.57	102.72	110.97
4	X	360	GLN	N-CA-C	-7.57	102.72	110.97
4	2	360	GLN	N-CA-C	-7.56	102.73	110.97
4	X	252	ASN	OD1-CG-ND2	-7.56	115.04	122.60
1	G	784	ALA	N-CA-C	-7.56	102.04	111.11
1	J	202	SER	CB-CA-C	-7.56	95.38	110.42
4	Z	215	LYS	N-CA-C	7.56	119.30	111.14
2	K	149	ASP	N-CA-CB	7.55	120.81	110.38
1	M	202	SER	CB-CA-C	-7.55	95.39	110.42
4	9	223	PHE	CA-CB-CG	7.55	121.35	113.80
4	V	223	PHE	CA-CB-CG	7.55	121.35	113.80
4	3	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
4	W	223	PHE	CA-CB-CG	7.55	121.35	113.80
4	V	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
4	5	223	PHE	CA-CB-CG	7.54	121.34	113.80
4	3	223	PHE	CA-CB-CG	7.54	121.34	113.80
4	8	223	PHE	CA-CB-CG	7.54	121.34	113.80
4	Y	62	ARG	N-CA-C	7.54	120.38	111.71
4	Y	215	LYS	N-CA-C	7.53	119.28	111.14
4	Y	360	GLN	N-CA-C	-7.53	102.76	110.97
4	2	223	PHE	CA-CB-CG	7.53	121.33	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	7	62	ARG	N-CA-C	7.53	120.37	111.71
1	G	202	SER	CB-CA-C	-7.53	95.44	110.42
4	1	215	LYS	N-CA-C	7.53	119.27	111.14
4	W	173	HIS	CA-CB-CG	-7.53	106.27	113.80
4	2	252	ASN	OD1-CG-ND2	-7.53	115.07	122.60
4	5	252	ASN	OD1-CG-ND2	-7.52	115.08	122.60
4	9	252	ASN	OD1-CG-ND2	-7.52	115.08	122.60
4	V	215	LYS	N-CA-C	7.52	119.26	111.14
4	8	173	HIS	CA-CB-CG	-7.52	106.28	113.80
4	W	252	ASN	OD1-CG-ND2	-7.52	115.08	122.60
1	P	202	SER	CB-CA-C	-7.51	95.47	110.42
4	9	360	GLN	N-CA-C	-7.51	102.78	110.97
3	L	62	ALA	CA-C-N	-7.51	112.67	122.51
3	L	62	ALA	C-N-CA	-7.51	112.67	122.51
4	0	62	ARG	N-CA-C	7.51	120.35	111.71
4	7	252	ASN	OD1-CG-ND2	-7.51	115.09	122.60
4	Z	252	ASN	OD1-CG-ND2	-7.51	115.09	122.60
4	7	173	HIS	CA-CB-CG	-7.51	106.29	113.80
2	E	149	ASP	N-CA-CB	7.51	120.74	110.38
4	5	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	9	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	5	215	LYS	N-CA-C	7.50	119.24	111.14
2	K	141	PRO	N-CA-CB	-7.50	95.81	103.08
4	1	252	ASN	OD1-CG-ND2	-7.49	115.11	122.60
4	2	62	ARG	N-CA-C	7.49	120.33	111.71
4	Z	62	ARG	N-CA-C	7.49	120.33	111.71
1	G	698	ASN	CB-CA-C	-7.49	98.21	110.79
4	8	62	ARG	N-CA-C	7.49	120.32	111.71
4	1	62	ARG	N-CA-C	7.49	120.32	111.71
4	0	173	HIS	CA-CB-CG	-7.49	106.31	113.80
4	3	62	ARG	N-CA-C	7.49	120.32	111.71
4	0	215	LYS	N-CA-C	7.48	119.22	111.14
4	4	62	ARG	N-CA-C	7.48	120.32	111.71
1	D	698	ASN	CB-CA-C	-7.48	98.22	110.79
4	9	215	LYS	N-CA-C	7.48	119.22	111.14
4	X	62	ARG	N-CA-C	7.48	120.31	111.71
4	4	252	ASN	OD1-CG-ND2	-7.48	115.12	122.60
4	5	62	ARG	N-CA-C	7.48	120.31	111.71
4	0	252	ASN	OD1-CG-ND2	-7.48	115.12	122.60
2	H	141	PRO	N-CA-CB	-7.48	95.83	103.08
4	2	215	LYS	N-CA-C	7.47	119.21	111.14
4	W	215	LYS	N-CA-C	7.47	119.21	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	215	LYS	N-CA-C	7.47	119.21	111.14
4	9	62	ARG	N-CA-C	7.47	120.30	111.71
4	3	173	HIS	CA-CB-CG	-7.47	106.33	113.80
4	X	215	LYS	N-CA-C	7.46	119.20	111.14
3	C	62	ALA	CA-C-N	-7.46	112.73	122.51
3	C	62	ALA	C-N-CA	-7.46	112.73	122.51
4	V	62	ARG	N-CA-C	7.46	120.29	111.71
4	W	62	ARG	N-CA-C	7.46	120.29	111.71
4	Y	173	HIS	CA-CB-CG	-7.46	106.34	113.80
4	V	173	HIS	CA-CB-CG	-7.45	106.35	113.80
4	Y	252	ASN	OD1-CG-ND2	-7.45	115.15	122.60
4	4	215	LYS	N-CA-C	7.45	119.18	111.14
4	X	173	HIS	CA-CB-CG	-7.45	106.35	113.80
2	E	140	PHE	O-C-N	-7.45	112.76	121.32
4	2	173	HIS	CA-CB-CG	-7.45	106.35	113.80
2	H	140	PHE	O-C-N	-7.43	112.77	121.32
2	N	141	PRO	N-CA-CB	-7.43	95.87	103.08
4	Z	173	HIS	CA-CB-CG	-7.43	106.37	113.80
4	3	215	LYS	N-CA-C	7.43	119.16	111.14
4	7	215	LYS	N-CA-C	7.42	119.15	111.14
3	O	62	ALA	CA-C-N	-7.41	112.80	122.51
3	O	62	ALA	C-N-CA	-7.41	112.80	122.51
4	1	173	HIS	CA-CB-CG	-7.41	106.39	113.80
4	4	173	HIS	CA-CB-CG	-7.40	106.40	113.80
2	K	140	PHE	O-C-N	-7.39	112.82	121.32
3	R	62	ALA	CA-C-N	-7.38	112.84	122.51
3	R	62	ALA	C-N-CA	-7.38	112.84	122.51
2	Q	141	PRO	N-CA-CB	-7.38	95.92	103.08
2	B	140	PHE	O-C-N	-7.37	112.84	121.32
2	E	141	PRO	N-CA-CB	-7.37	95.93	103.08
2	N	140	PHE	O-C-N	-7.37	112.85	121.32
2	Q	140	PHE	O-C-N	-7.35	112.86	121.32
2	B	141	PRO	N-CA-CB	-7.35	95.95	103.08
4	4	34	ILE	CA-CB-CG2	-7.32	98.06	110.50
4	0	34	ILE	CA-CB-CG2	-7.31	98.07	110.50
4	9	34	ILE	CA-CB-CG2	-7.31	98.08	110.50
1	D	506	GLU	CA-C-N	-7.31	112.55	122.63
1	D	506	GLU	C-N-CA	-7.31	112.55	122.63
4	5	34	ILE	CA-CB-CG2	-7.31	98.08	110.50
4	V	34	ILE	CA-CB-CG2	-7.31	98.08	110.50
4	Z	34	ILE	CA-CB-CG2	-7.30	98.09	110.50
4	2	34	ILE	CA-CB-CG2	-7.30	98.09	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	34	ILE	CA-CB-CG2	-7.30	98.09	110.50
4	Y	34	ILE	CA-CB-CG2	-7.30	98.09	110.50
4	1	34	ILE	CA-CB-CG2	-7.29	98.10	110.50
4	3	34	ILE	CA-CB-CG2	-7.29	98.10	110.50
4	8	34	ILE	CA-CB-CG2	-7.29	98.11	110.50
4	W	34	ILE	CA-CB-CG2	-7.28	98.12	110.50
4	7	159	VAL	CB-CA-C	-7.28	99.05	110.69
1	M	506	GLU	CA-C-N	-7.27	112.60	122.63
1	M	506	GLU	C-N-CA	-7.27	112.60	122.63
4	X	159	VAL	CB-CA-C	-7.26	99.07	110.69
1	P	506	GLU	CA-C-N	-7.26	112.61	122.63
1	P	506	GLU	C-N-CA	-7.26	112.61	122.63
4	7	34	ILE	CA-CB-CG2	-7.25	98.17	110.50
4	Y	159	VAL	CB-CA-C	-7.25	99.08	110.69
1	A	506	GLU	CA-C-N	-7.25	112.62	122.63
1	A	506	GLU	C-N-CA	-7.25	112.62	122.63
4	3	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	2	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	5	159	VAL	CB-CA-C	-7.25	99.09	110.69
1	D	76	GLN	N-CA-C	-7.25	102.74	113.61
4	V	159	VAL	CB-CA-C	-7.25	99.10	110.69
1	G	76	GLN	N-CA-C	-7.25	102.74	113.61
4	0	159	VAL	CB-CA-C	-7.24	99.10	110.69
4	9	159	VAL	CB-CA-C	-7.24	99.11	110.69
4	Z	159	VAL	CB-CA-C	-7.23	99.12	110.69
4	8	159	VAL	CB-CA-C	-7.23	99.12	110.69
1	G	506	GLU	CA-C-N	-7.22	112.66	122.63
1	G	506	GLU	C-N-CA	-7.22	112.66	122.63
1	M	76	GLN	N-CA-C	-7.22	102.78	113.61
4	4	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	1	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	W	159	VAL	CB-CA-C	-7.22	99.14	110.69
1	J	506	GLU	CA-C-N	-7.21	112.67	122.63
1	J	506	GLU	C-N-CA	-7.21	112.67	122.63
1	A	76	GLN	N-CA-C	-7.20	102.81	113.61
1	J	76	GLN	N-CA-C	-7.19	102.82	113.61
1	P	76	GLN	N-CA-C	-7.18	102.84	113.61
4	V	323	SER	N-CA-C	7.18	121.67	112.34
1	A	625	THR	CA-CB-CG2	-7.17	98.31	110.50
4	0	259	GLU	CB-CG-CD	7.17	124.79	112.60
4	V	259	GLU	CB-CG-CD	7.17	124.79	112.60
4	2	259	GLU	CB-CG-CD	7.17	124.78	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	323	SER	N-CA-C	7.17	121.66	112.34
4	Z	259	GLU	CB-CG-CD	7.17	124.78	112.60
1	G	625	THR	CA-CB-CG2	-7.16	98.32	110.50
4	3	323	SER	N-CA-C	7.16	121.65	112.34
4	7	323	SER	N-CA-C	7.16	121.65	112.34
4	1	323	SER	N-CA-C	7.16	121.65	112.34
4	5	259	GLU	CB-CG-CD	7.16	124.77	112.60
1	J	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	W	259	GLU	CB-CG-CD	7.16	124.76	112.60
4	X	323	SER	N-CA-C	7.16	121.64	112.34
4	4	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	7	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	4	323	SER	N-CA-C	7.15	121.64	112.34
1	P	625	THR	CA-CB-CG2	-7.15	98.35	110.50
4	9	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	1	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	X	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	8	259	GLU	CB-CG-CD	7.14	124.74	112.60
4	2	323	SER	N-CA-C	7.14	121.62	112.34
4	3	259	GLU	CB-CG-CD	7.14	124.74	112.60
4	5	323	SER	N-CA-C	7.14	121.62	112.34
4	Y	323	SER	N-CA-C	7.14	121.62	112.34
1	D	625	THR	CA-CB-CG2	-7.13	98.38	110.50
4	W	323	SER	N-CA-C	7.13	121.61	112.34
4	0	323	SER	N-CA-C	7.13	121.61	112.34
4	Y	259	GLU	CB-CG-CD	7.13	124.72	112.60
4	9	323	SER	N-CA-C	7.12	121.60	112.34
4	Z	323	SER	N-CA-C	7.12	121.59	112.34
4	8	69	TYR	CA-C-N	7.07	126.77	119.56
4	8	69	TYR	C-N-CA	7.07	126.77	119.56
4	9	69	TYR	CA-C-N	7.06	126.77	119.56
4	9	69	TYR	C-N-CA	7.06	126.77	119.56
4	5	69	TYR	CA-C-N	7.05	126.75	119.56
4	5	69	TYR	C-N-CA	7.05	126.75	119.56
4	1	69	TYR	CA-C-N	7.05	126.75	119.56
4	1	69	TYR	C-N-CA	7.05	126.75	119.56
4	Z	69	TYR	CA-C-N	7.05	126.75	119.56
4	Z	69	TYR	C-N-CA	7.05	126.75	119.56
1	P	652	LEU	O-C-N	7.05	130.28	122.11
1	M	652	LEU	O-C-N	7.03	130.27	122.11
1	G	652	LEU	O-C-N	7.03	130.26	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	V	69	TYR	CA-C-N	7.02	126.72	119.56
4	V	69	TYR	C-N-CA	7.02	126.72	119.56
4	0	69	TYR	CA-C-N	7.01	126.72	119.56
4	0	69	TYR	C-N-CA	7.01	126.72	119.56
4	Y	69	TYR	CA-C-N	7.01	126.71	119.56
4	Y	69	TYR	C-N-CA	7.01	126.71	119.56
4	W	69	TYR	CA-C-N	7.01	126.71	119.56
4	W	69	TYR	C-N-CA	7.01	126.71	119.56
4	2	69	TYR	CA-C-N	7.01	126.71	119.56
4	2	69	TYR	C-N-CA	7.01	126.71	119.56
4	3	69	TYR	CA-C-N	7.00	126.70	119.56
4	3	69	TYR	C-N-CA	7.00	126.70	119.56
4	W	73	HIS	CA-CB-CG	-7.00	106.80	113.80
1	D	652	LEU	O-C-N	6.99	130.22	122.11
1	D	686	MET	CA-C-N	-6.99	111.42	121.42
1	D	686	MET	C-N-CA	-6.99	111.42	121.42
4	0	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	5	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	1	287	ILE	CB-CA-C	-6.99	102.70	112.14
4	3	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	7	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	X	73	HIS	CA-CB-CG	-6.99	106.81	113.80
1	A	652	LEU	O-C-N	6.99	130.22	122.11
4	X	69	TYR	CA-C-N	6.99	126.69	119.56
4	X	69	TYR	C-N-CA	6.99	126.69	119.56
4	1	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	4	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	9	287	ILE	CB-CA-C	-6.97	102.72	112.14
4	8	287	ILE	CB-CA-C	-6.97	102.73	112.14
4	V	73	HIS	CA-CB-CG	-6.97	106.83	113.80
4	V	287	ILE	CB-CA-C	-6.97	102.73	112.14
4	7	69	TYR	CA-C-N	6.97	126.67	119.56
4	7	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
4	4	69	TYR	CA-C-N	6.96	126.66	119.56
4	4	69	TYR	C-N-CA	6.96	126.66	119.56
1	J	652	LEU	O-C-N	6.96	130.18	122.11
4	4	287	ILE	N-CA-C	6.96	117.71	110.62
4	X	287	ILE	CB-CA-C	-6.95	102.75	112.14
4	8	73	HIS	CA-CB-CG	-6.95	106.85	113.80
4	4	287	ILE	CB-CA-C	-6.95	102.76	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	73	HIS	CA-CB-CG	-6.95	106.85	113.80
1	G	676	ILE	CA-C-N	6.95	128.53	119.84
1	G	676	ILE	C-N-CA	6.95	128.53	119.84
4	3	287	ILE	N-CA-C	6.95	117.71	110.62
4	W	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	Y	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	2	73	HIS	CA-CB-CG	-6.95	106.85	113.80
4	9	73	HIS	CA-CB-CG	-6.95	106.85	113.80
1	J	686	MET	CA-C-N	-6.94	111.49	121.42
1	J	686	MET	C-N-CA	-6.94	111.49	121.42
4	2	287	ILE	CB-CA-C	-6.94	102.77	112.14
4	Y	287	ILE	N-CA-C	6.94	117.70	110.62
4	Z	287	ILE	CB-CA-C	-6.94	102.77	112.14
4	3	287	ILE	CB-CA-C	-6.93	102.78	112.14
4	8	287	ILE	N-CA-C	6.93	117.69	110.62
1	P	686	MET	CA-C-N	-6.93	111.52	121.42
1	P	686	MET	C-N-CA	-6.93	111.52	121.42
1	M	686	MET	CA-C-N	-6.92	111.53	121.42
1	M	686	MET	C-N-CA	-6.92	111.53	121.42
1	G	686	MET	CA-C-N	-6.92	111.53	121.42
1	G	686	MET	C-N-CA	-6.92	111.53	121.42
4	7	287	ILE	N-CA-C	6.92	117.67	110.62
4	X	191	LYS	CA-C-O	-6.92	113.58	120.70
4	0	287	ILE	CB-CA-C	-6.91	102.81	112.14
4	5	287	ILE	CB-CA-C	-6.91	102.81	112.14
4	7	287	ILE	CB-CA-C	-6.91	102.81	112.14
4	Y	73	HIS	CA-CB-CG	-6.91	106.89	113.80
4	2	287	ILE	N-CA-C	6.90	117.66	110.62
4	0	287	ILE	N-CA-C	6.89	117.65	110.62
4	X	287	ILE	N-CA-C	6.89	117.64	110.62
1	M	529	PRO	CA-C-N	-6.88	111.63	122.65
1	M	529	PRO	C-N-CA	-6.88	111.63	122.65
4	Z	287	ILE	N-CA-C	6.88	117.64	110.62
4	W	287	ILE	N-CA-C	6.88	117.63	110.62
4	1	191	LYS	CA-C-O	-6.87	113.62	120.70
1	G	785	GLU	O-C-N	6.86	131.72	122.59
4	5	191	LYS	CA-C-O	-6.86	113.63	120.70
4	8	191	LYS	CA-C-O	-6.86	113.63	120.70
4	W	191	LYS	CA-C-O	-6.86	113.63	120.70
4	Y	191	LYS	CA-C-O	-6.86	113.64	120.70
4	V	287	ILE	N-CA-C	6.86	117.61	110.62
4	4	191	LYS	CA-C-O	-6.85	113.65	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	201	ALA	CB-CA-C	-6.85	106.47	116.53
4	5	287	ILE	N-CA-C	6.85	117.61	110.62
1	A	676	ILE	CA-C-N	6.84	128.39	119.84
1	A	676	ILE	C-N-CA	6.84	128.39	119.84
4	Z	191	LYS	CA-C-O	-6.84	113.65	120.70
4	0	191	LYS	CA-C-O	-6.84	113.66	120.70
4	9	287	ILE	N-CA-C	6.84	117.59	110.62
1	D	529	PRO	CA-C-N	-6.83	111.71	122.65
1	D	529	PRO	C-N-CA	-6.83	111.71	122.65
1	J	529	PRO	CA-C-N	-6.83	111.72	122.65
1	J	529	PRO	C-N-CA	-6.83	111.72	122.65
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	A	529	PRO	CA-C-N	-6.83	111.72	122.65
1	A	529	PRO	C-N-CA	-6.83	111.72	122.65
1	J	676	ILE	CA-C-N	6.83	128.38	119.84
1	J	676	ILE	C-N-CA	6.83	128.38	119.84
1	G	529	PRO	CA-C-N	-6.82	111.74	122.65
1	G	529	PRO	C-N-CA	-6.82	111.74	122.65
1	M	201	ALA	CB-CA-C	-6.82	106.50	116.53
1	P	218	LEU	O-C-N	6.82	131.34	123.29
4	2	191	LYS	CA-C-O	-6.82	113.68	120.70
4	V	191	LYS	CA-C-O	-6.82	113.68	120.70
1	P	201	ALA	CB-CA-C	-6.82	106.51	116.53
4	1	287	ILE	N-CA-C	6.82	117.57	110.62
1	P	529	PRO	CA-C-N	-6.81	111.75	122.65
1	P	529	PRO	C-N-CA	-6.81	111.75	122.65
1	G	201	ALA	CB-CA-C	-6.81	106.52	116.53
4	7	191	LYS	CA-C-O	-6.81	113.68	120.70
1	D	676	ILE	CA-C-N	6.81	128.35	119.84
1	D	676	ILE	C-N-CA	6.81	128.35	119.84
1	G	578	HIS	N-CA-CB	6.81	121.99	110.49
1	M	676	ILE	CA-C-N	6.81	128.35	119.84
1	M	676	ILE	C-N-CA	6.81	128.35	119.84
4	9	191	LYS	CA-C-O	-6.81	113.69	120.70
2	E	139	ALA	N-CA-C	-6.80	104.30	114.64
4	3	191	LYS	CA-C-O	-6.80	113.70	120.70
4	9	214	GLU	CB-CG-CD	6.79	124.14	112.60
4	V	214	GLU	CB-CG-CD	6.79	124.14	112.60
4	Y	259	GLU	N-CA-C	-6.78	104.10	112.38
1	J	218	LEU	O-C-N	6.78	131.29	123.29
1	G	218	LEU	O-C-N	6.78	131.29	123.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	146	LYS	N-CA-C	6.77	119.56	108.52
1	A	201	ALA	CB-CA-C	-6.77	106.58	116.53
4	0	214	GLU	CB-CG-CD	6.77	124.10	112.60
4	5	259	GLU	N-CA-C	-6.76	104.13	112.38
4	X	214	GLU	CB-CG-CD	6.76	124.09	112.60
4	3	214	GLU	CB-CG-CD	6.76	124.09	112.60
4	4	259	GLU	N-CA-C	-6.76	104.14	112.38
4	V	259	GLU	N-CA-C	-6.75	104.14	112.38
4	2	214	GLU	CB-CG-CD	6.75	124.08	112.60
1	J	578	HIS	N-CA-CB	6.75	121.90	110.49
2	K	139	ALA	N-CA-C	-6.75	104.38	114.64
1	M	218	LEU	O-C-N	6.75	131.26	123.29
1	P	578	HIS	N-CA-CB	6.75	121.90	110.49
1	D	201	ALA	CB-CA-C	-6.75	106.61	116.53
4	Y	214	GLU	CB-CG-CD	6.75	124.08	112.60
2	Q	139	ALA	N-CA-C	-6.75	104.38	114.64
4	2	259	GLU	N-CA-C	-6.75	104.15	112.38
4	Z	214	GLU	CB-CG-CD	6.75	124.07	112.60
4	Z	259	GLU	N-CA-C	-6.75	104.15	112.38
4	7	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	W	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	5	214	GLU	CB-CG-CD	6.74	124.06	112.60
4	X	259	GLU	N-CA-C	-6.74	104.16	112.38
2	N	139	ALA	N-CA-C	-6.74	104.40	114.64
4	9	259	GLU	N-CA-C	-6.74	104.16	112.38
1	M	578	HIS	N-CA-CB	6.73	121.87	110.49
4	8	214	GLU	CB-CG-CD	6.73	124.05	112.60
1	A	578	HIS	N-CA-CB	6.73	121.86	110.49
4	0	259	GLU	N-CA-C	-6.73	104.17	112.38
4	4	214	GLU	CB-CG-CD	6.72	124.03	112.60
1	D	578	HIS	N-CA-CB	6.72	121.85	110.49
4	W	259	GLU	N-CA-C	-6.72	104.18	112.38
4	1	214	GLU	CB-CG-CD	6.72	124.03	112.60
1	A	146	LYS	N-CA-C	6.72	119.47	108.52
2	B	139	ALA	N-CA-C	-6.72	104.43	114.64
4	3	259	GLU	N-CA-C	-6.72	104.19	112.38
4	7	259	GLU	N-CA-C	-6.71	104.20	112.38
4	1	259	GLU	N-CA-C	-6.70	104.20	112.38
4	8	259	GLU	N-CA-C	-6.70	104.21	112.38
1	M	146	LYS	N-CA-C	6.69	119.43	108.52
1	J	146	LYS	N-CA-C	6.69	119.42	108.52
1	P	146	LYS	N-CA-C	6.67	119.39	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	139	ALA	N-CA-C	-6.67	104.50	114.64
1	G	146	LYS	N-CA-C	6.62	119.31	108.52
1	A	218	LEU	O-C-N	6.61	131.09	123.29
1	D	218	LEU	O-C-N	6.58	131.06	123.29
1	J	82	PRO	N-CA-CB	6.58	109.46	103.08
4	W	371	HIS	CA-CB-CG	-6.54	107.25	113.80
1	J	628	GLY	O-C-N	-6.53	114.48	122.71
2	K	139	ALA	O-C-N	6.53	128.85	121.93
1	P	82	PRO	N-CA-CB	6.53	109.41	103.08
4	8	371	HIS	CA-CB-CG	-6.53	107.27	113.80
2	E	139	ALA	O-C-N	6.52	128.84	121.93
4	2	371	HIS	CA-CB-CG	-6.52	107.28	113.80
1	M	82	PRO	N-CA-CB	6.51	109.40	103.08
1	A	217	THR	N-CA-CB	6.51	123.64	111.53
2	E	141	PRO	N-CD-CG	-6.51	93.43	103.20
4	4	371	HIS	CA-CB-CG	-6.51	107.29	113.80
4	9	371	HIS	CA-CB-CG	-6.51	107.29	113.80
2	H	141	PRO	N-CD-CG	-6.50	93.45	103.20
4	1	371	HIS	CA-CB-CG	-6.50	107.30	113.80
4	Y	371	HIS	CA-CB-CG	-6.50	107.30	113.80
1	A	340	ILE	O-C-N	6.50	128.43	121.87
1	D	82	PRO	N-CA-CB	6.50	109.38	103.08
1	J	156	PHE	N-CA-C	-6.50	104.61	112.54
1	D	628	GLY	O-C-N	-6.50	114.53	122.71
1	P	628	GLY	O-C-N	-6.49	114.53	122.71
1	G	217	THR	N-CA-CB	6.49	123.60	111.53
1	M	628	GLY	O-C-N	-6.49	114.53	122.71
2	N	141	PRO	N-CD-CG	-6.49	93.47	103.20
2	N	139	ALA	O-C-N	6.49	128.81	121.93
1	G	156	PHE	N-CA-C	-6.49	104.63	112.54
4	0	371	HIS	CA-CB-CG	-6.49	107.31	113.80
1	D	217	THR	N-CA-CB	6.48	123.59	111.53
1	M	217	THR	N-CA-CB	6.48	123.59	111.53
1	A	156	PHE	N-CA-C	-6.48	104.63	112.54
4	5	371	HIS	CA-CB-CG	-6.48	107.32	113.80
1	P	156	PHE	N-CA-C	-6.48	104.64	112.54
2	H	141	PRO	N-CA-C	6.48	118.60	110.70
1	M	156	PHE	N-CA-C	-6.48	104.64	112.54
4	0	286	ASP	CA-C-N	6.48	129.33	120.46
4	0	286	ASP	C-N-CA	6.48	129.33	120.46
4	1	286	ASP	CA-C-N	6.47	129.33	120.46
4	1	286	ASP	C-N-CA	6.47	129.33	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	217	THR	N-CA-CB	6.47	123.56	111.53
2	B	141	PRO	N-CA-C	6.46	118.59	110.70
1	D	156	PHE	N-CA-C	-6.46	104.65	112.54
2	E	141	PRO	N-CA-C	6.46	118.59	110.70
4	W	101	HIS	CB-CG-CD2	-6.46	122.80	131.20
4	V	286	ASP	CA-C-N	6.46	129.31	120.46
4	V	286	ASP	C-N-CA	6.46	129.31	120.46
4	Z	371	HIS	CA-CB-CG	-6.46	107.34	113.80
2	B	139	ALA	O-C-N	6.46	128.78	121.93
1	D	688	HIS	CA-CB-CG	-6.46	107.34	113.80
4	7	371	HIS	CA-CB-CG	-6.46	107.34	113.80
4	Z	101	HIS	CB-CG-CD2	-6.46	122.81	131.20
4	4	286	ASP	CA-C-N	6.45	129.30	120.46
4	4	286	ASP	C-N-CA	6.45	129.30	120.46
4	3	80	ASP	CA-CB-CG	6.45	119.05	112.60
4	Z	286	ASP	CA-C-N	6.45	129.30	120.46
4	Z	286	ASP	C-N-CA	6.45	129.30	120.46
4	X	371	HIS	CA-CB-CG	-6.45	107.35	113.80
2	Q	139	ALA	O-C-N	6.45	128.76	121.93
2	H	139	ALA	O-C-N	6.44	128.76	121.93
2	N	141	PRO	N-CA-C	6.44	118.56	110.70
4	9	80	ASP	CA-CB-CG	6.44	119.04	112.60
1	J	217	THR	N-CA-CB	6.44	123.51	111.53
2	Q	141	PRO	N-CD-CG	-6.44	93.54	103.20
4	8	286	ASP	CA-C-N	6.44	129.28	120.46
4	8	286	ASP	C-N-CA	6.44	129.28	120.46
2	Q	141	PRO	N-CA-C	6.43	118.55	110.70
1	D	340	ILE	O-C-N	6.43	128.36	121.87
1	M	604	ASN	CA-C-O	6.43	128.41	121.02
4	9	286	ASP	CA-C-N	6.43	129.27	120.46
4	9	286	ASP	C-N-CA	6.43	129.27	120.46
4	V	101	HIS	CB-CG-CD2	-6.43	122.84	131.20
1	A	82	PRO	N-CA-CB	6.43	109.31	103.08
4	Y	286	ASP	CA-C-N	6.43	129.26	120.46
4	Y	286	ASP	C-N-CA	6.43	129.26	120.46
1	M	688	HIS	CA-CB-CG	-6.42	107.38	113.80
4	0	101	HIS	CB-CG-CD2	-6.42	122.85	131.20
1	A	628	GLY	O-C-N	-6.42	114.62	122.71
4	5	286	ASP	CA-C-N	6.42	129.25	120.46
4	5	286	ASP	C-N-CA	6.42	129.25	120.46
4	Z	80	ASP	CA-CB-CG	6.42	119.02	112.60
1	D	604	ASN	CA-C-O	6.42	128.40	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	259	GLU	CA-CB-CG	6.41	126.93	114.10
4	V	371	HIS	CA-CB-CG	-6.41	107.39	113.80
4	7	80	ASP	CA-CB-CG	6.41	119.01	112.60
4	X	286	ASP	CA-C-N	6.41	129.24	120.46
4	X	286	ASP	C-N-CA	6.41	129.24	120.46
4	Z	47	MET	CA-CB-CG	-6.41	101.28	114.10
2	K	141	PRO	N-CD-CG	-6.41	93.59	103.20
4	V	259	GLU	CA-CB-CG	6.41	126.92	114.10
4	2	286	ASP	CA-C-N	6.41	129.24	120.46
4	2	286	ASP	C-N-CA	6.41	129.24	120.46
4	0	259	GLU	CA-CB-CG	6.41	126.91	114.10
4	W	286	ASP	CA-C-N	6.41	129.24	120.46
4	W	286	ASP	C-N-CA	6.41	129.24	120.46
4	3	286	ASP	CA-C-N	6.40	129.23	120.46
4	3	286	ASP	C-N-CA	6.40	129.23	120.46
4	1	259	GLU	CA-CB-CG	6.40	126.90	114.10
4	8	101	HIS	CB-CG-CD2	-6.40	122.88	131.20
4	7	101	HIS	CB-CG-CD2	-6.40	122.88	131.20
4	7	286	ASP	CA-C-N	6.40	129.23	120.46
4	7	286	ASP	C-N-CA	6.40	129.23	120.46
4	X	259	GLU	CA-CB-CG	6.40	126.89	114.10
4	Y	259	GLU	CA-CB-CG	6.40	126.89	114.10
1	G	628	GLY	O-C-N	-6.40	114.65	122.71
4	5	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
4	3	371	HIS	CA-CB-CG	-6.39	107.41	113.80
4	W	80	ASP	CA-CB-CG	6.39	118.99	112.60
4	X	80	ASP	CA-CB-CG	6.39	118.99	112.60
4	Z	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	2	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
4	4	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	7	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	V	47	MET	CA-CB-CG	-6.39	101.32	114.10
1	G	82	PRO	N-CA-CB	6.39	109.28	103.08
4	9	259	GLU	CA-CB-CG	6.39	126.87	114.10
4	X	282	ILE	CA-C-O	-6.39	113.96	121.05
4	3	47	MET	CA-CB-CG	-6.38	101.34	114.10
1	D	47	PHE	CB-CA-C	-6.38	100.92	110.24
1	P	604	ASN	CA-C-O	6.38	128.36	121.02
4	2	80	ASP	CA-CB-CG	6.38	118.98	112.60
4	3	101	HIS	CB-CG-CD2	-6.38	122.91	131.20
4	3	259	GLU	CA-CB-CG	6.38	126.86	114.10
1	J	688	HIS	CA-CB-CG	-6.38	107.42	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	K	141	PRO	N-CA-C	6.38	118.48	110.70
4	5	259	GLU	CA-CB-CG	6.38	126.85	114.10
4	W	47	MET	CA-CB-CG	-6.37	101.35	114.10
1	A	604	ASN	CA-C-O	6.37	128.35	121.02
1	J	340	ILE	O-C-N	6.37	128.31	121.87
4	8	47	MET	CA-CB-CG	-6.37	101.36	114.10
4	W	259	GLU	CA-CB-CG	6.37	126.84	114.10
4	Y	80	ASP	CA-CB-CG	6.37	118.97	112.60
1	G	604	ASN	CA-C-O	6.37	128.34	121.02
4	4	47	MET	CA-CB-CG	-6.37	101.36	114.10
4	4	101	HIS	CB-CG-CD2	-6.37	122.92	131.20
4	5	80	ASP	CA-CB-CG	6.37	118.97	112.60
4	9	47	MET	CA-CB-CG	-6.37	101.36	114.10
4	7	282	ILE	CA-C-O	-6.37	113.98	121.05
4	1	80	ASP	CA-CB-CG	6.37	118.97	112.60
4	1	101	HIS	CB-CG-CD2	-6.37	122.92	131.20
4	2	259	GLU	CA-CB-CG	6.37	126.83	114.10
4	5	47	MET	CA-CB-CG	-6.37	101.37	114.10
4	7	47	MET	CA-CB-CG	-6.36	101.37	114.10
4	8	80	ASP	CA-CB-CG	6.36	118.96	112.60
4	1	47	MET	CA-CB-CG	-6.36	101.38	114.10
2	B	141	PRO	N-CD-CG	-6.36	93.66	103.20
4	V	80	ASP	CA-CB-CG	6.36	118.96	112.60
4	Y	47	MET	CA-CB-CG	-6.36	101.38	114.10
1	A	688	HIS	CA-CB-CG	-6.36	107.44	113.80
4	0	47	MET	CA-CB-CG	-6.36	101.39	114.10
1	A	755	HIS	CA-CB-CG	6.35	120.15	113.80
4	2	47	MET	CA-CB-CG	-6.35	101.39	114.10
1	D	755	HIS	CA-CB-CG	6.35	120.15	113.80
1	P	688	HIS	CA-CB-CG	-6.35	107.45	113.80
1	P	47	PHE	CB-CA-C	-6.34	100.98	110.24
4	X	47	MET	CA-CB-CG	-6.34	101.42	114.10
4	X	101	HIS	CB-CG-CD2	-6.34	122.96	131.20
4	5	282	ILE	CA-C-O	-6.34	114.02	121.05
1	M	47	PHE	CB-CA-C	-6.33	100.99	110.24
1	J	604	ASN	CA-C-O	6.33	128.30	121.02
4	0	80	ASP	CA-CB-CG	6.33	118.93	112.60
4	Y	282	ILE	CA-C-O	-6.33	114.03	121.05
1	A	47	PHE	CB-CA-C	-6.33	101.00	110.24
1	J	47	PHE	CB-CA-C	-6.32	101.01	110.24
1	P	340	ILE	O-C-N	6.32	128.26	121.87
1	J	755	HIS	CA-CB-CG	6.32	120.12	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	2	282	ILE	CA-C-O	-6.32	114.03	121.05
1	M	340	ILE	O-C-N	6.32	128.25	121.87
4	0	282	ILE	CA-C-O	-6.32	114.03	121.05
4	4	80	ASP	CA-CB-CG	6.32	118.92	112.60
4	9	101	HIS	CB-CG-CD2	-6.32	122.99	131.20
4	4	282	ILE	CA-C-O	-6.31	114.04	121.05
4	9	282	ILE	CA-C-O	-6.31	114.04	121.05
4	Y	101	HIS	CB-CG-CD2	-6.31	123.00	131.20
4	1	282	ILE	CA-C-O	-6.30	114.06	121.05
1	P	755	HIS	CA-CB-CG	6.30	120.10	113.80
1	A	599	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	G	340	ILE	O-C-N	6.29	128.23	121.87
4	W	282	ILE	CA-C-O	-6.29	114.06	121.05
4	V	282	ILE	CA-C-O	-6.29	114.07	121.05
1	G	47	PHE	CB-CA-C	-6.29	101.06	110.24
1	M	755	HIS	CA-CB-CG	6.29	120.09	113.80
1	D	443	ILE	CB-CA-C	-6.28	103.84	111.88
4	9	217	CYS	N-CA-C	6.28	119.57	110.28
1	D	599	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	G	524	GLU	N-CA-CB	6.28	119.48	110.06
4	0	1	ASP	CA-CB-CG	6.28	118.88	112.60
1	A	524	GLU	N-CA-CB	6.27	119.47	110.06
4	4	1	ASP	CA-CB-CG	6.27	118.87	112.60
4	8	217	CYS	N-CA-C	6.27	119.56	110.28
4	W	217	CYS	N-CA-C	6.27	119.56	110.28
4	3	282	ILE	CA-C-O	-6.26	114.10	121.05
4	8	282	ILE	CA-C-O	-6.26	114.10	121.05
4	Y	1	ASP	CA-CB-CG	6.25	118.86	112.60
4	9	1	ASP	CA-CB-CG	6.25	118.85	112.60
4	7	217	CYS	N-CA-C	6.25	119.53	110.28
4	4	217	CYS	N-CA-C	6.25	119.53	110.28
4	5	217	CYS	N-CA-C	6.24	119.52	110.28
4	X	217	CYS	N-CA-C	6.24	119.52	110.28
1	M	631	GLU	CA-C-N	6.24	131.90	120.79
1	M	631	GLU	C-N-CA	6.24	131.90	120.79
4	V	217	CYS	N-CA-C	6.24	119.51	110.28
1	M	599	ASN	OD1-CG-ND2	-6.24	116.36	122.60
4	Y	217	CYS	N-CA-C	6.24	119.51	110.28
4	3	217	CYS	N-CA-C	6.23	119.51	110.28
1	G	688	HIS	CA-CB-CG	-6.23	107.57	113.80
1	J	524	GLU	N-CA-CB	6.23	119.41	110.06
4	0	217	CYS	N-CA-C	6.23	119.50	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	1	ASP	CA-CB-CG	6.23	118.83	112.60
1	J	631	GLU	CA-C-N	6.23	131.87	120.79
1	J	631	GLU	C-N-CA	6.23	131.87	120.79
1	D	631	GLU	CA-C-N	6.22	131.87	120.79
1	D	631	GLU	C-N-CA	6.22	131.87	120.79
1	P	524	GLU	N-CA-CB	6.22	119.40	110.06
1	D	524	GLU	N-CA-CB	6.22	119.39	110.06
4	8	1	ASP	CA-CB-CG	6.22	118.82	112.60
4	Z	282	ILE	CA-C-O	-6.22	114.14	121.05
1	A	363	ASN	OD1-CG-ND2	6.22	128.82	122.60
1	G	599	ASN	OD1-CG-ND2	-6.22	116.38	122.60
4	7	1	ASP	CA-CB-CG	6.22	118.82	112.60
4	V	1	ASP	CA-CB-CG	6.22	118.82	112.60
4	1	217	CYS	N-CA-C	6.22	119.48	110.28
1	M	443	ILE	CB-CA-C	-6.22	103.92	111.88
1	P	443	ILE	CB-CA-C	-6.22	103.92	111.88
1	J	599	ASN	OD1-CG-ND2	-6.21	116.39	122.60
1	M	524	GLU	N-CA-CB	6.21	119.38	110.06
4	1	1	ASP	CA-CB-CG	6.21	118.81	112.60
4	X	1	ASP	CA-CB-CG	6.21	118.81	112.60
4	Z	217	CYS	N-CA-C	6.21	119.47	110.28
4	2	217	CYS	N-CA-C	6.21	119.47	110.28
1	A	22	LYS	N-CA-C	-6.21	106.30	114.31
4	2	1	ASP	CA-CB-CG	6.21	118.81	112.60
4	2	219	VAL	CB-CA-C	-6.20	102.92	110.99
4	3	1	ASP	CA-CB-CG	6.20	118.80	112.60
4	9	219	VAL	N-CA-CB	6.20	119.72	111.90
4	5	1	ASP	CA-CB-CG	6.20	118.80	112.60
1	A	443	ILE	CB-CA-C	-6.20	103.94	111.88
1	P	631	GLU	CA-C-N	6.20	131.83	120.79
1	P	631	GLU	C-N-CA	6.20	131.83	120.79
1	G	341	LEU	CB-CA-C	6.19	122.28	110.27
1	J	443	ILE	CB-CA-C	-6.19	103.95	111.88
1	A	341	LEU	CB-CA-C	6.19	122.27	110.27
1	A	631	GLU	CA-C-N	6.18	131.80	120.79
1	A	631	GLU	C-N-CA	6.18	131.80	120.79
4	W	1	ASP	CA-CB-CG	6.18	118.78	112.60
4	5	219	VAL	CB-CA-C	-6.17	102.97	110.99
4	W	219	VAL	N-CA-CB	6.17	119.68	111.90
1	J	22	LYS	N-CA-C	-6.17	106.35	114.31
1	M	341	LEU	CB-CA-C	6.16	122.23	110.27
1	G	443	ILE	CB-CA-C	-6.16	104.00	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	7	219	VAL	N-CA-CB	6.15	119.65	111.90
1	P	341	LEU	CB-CA-C	6.15	122.19	110.27
4	9	219	VAL	CB-CA-C	-6.15	103.00	110.99
1	D	22	LYS	N-CA-C	-6.14	106.38	114.31
1	D	363	ASN	OD1-CG-ND2	6.14	128.74	122.60
4	3	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	J	279	LEU	CA-C-N	6.13	126.03	119.28
1	J	279	LEU	C-N-CA	6.13	126.03	119.28
4	V	205	GLU	N-CA-C	-6.13	104.52	112.68
1	D	352	TYR	N-CA-CB	6.13	120.92	110.50
4	V	219	VAL	CB-CA-C	-6.13	103.02	110.99
4	V	219	VAL	N-CA-CB	6.13	119.62	111.90
4	5	128	ASN	N-CA-CB	-6.13	102.59	111.91
4	0	219	VAL	CB-CA-C	-6.13	103.03	110.99
4	1	219	VAL	CB-CA-C	-6.13	103.03	110.99
4	8	219	VAL	CB-CA-C	-6.13	103.03	110.99
4	Y	219	VAL	N-CA-CB	6.13	119.62	111.90
4	X	219	VAL	CB-CA-C	-6.12	103.03	110.99
4	Z	219	VAL	N-CA-CB	6.12	119.61	111.90
1	M	22	LYS	N-CA-C	-6.12	106.41	114.31
4	5	205	GLU	N-CA-C	-6.12	104.54	112.68
4	W	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
1	P	22	LYS	N-CA-C	-6.12	106.42	114.31
4	1	219	VAL	N-CA-CB	6.12	119.61	111.90
4	9	128	ASN	N-CA-CB	-6.12	102.61	111.91
4	Y	219	VAL	CB-CA-C	-6.12	103.03	110.99
1	G	755	HIS	CA-CB-CG	6.12	119.92	113.80
4	3	219	VAL	N-CA-CB	6.12	119.61	111.90
4	4	219	VAL	CB-CA-C	-6.12	103.04	110.99
4	7	219	VAL	CB-CA-C	-6.11	103.04	110.99
4	W	128	ASN	N-CA-CB	-6.11	102.62	111.91
4	Z	219	VAL	CB-CA-C	-6.11	103.04	110.99
4	Y	205	GLU	N-CA-C	-6.11	104.56	112.68
4	4	219	VAL	N-CA-CB	6.11	119.59	111.90
1	M	279	LEU	CA-C-N	6.11	126.00	119.28
1	M	279	LEU	C-N-CA	6.11	126.00	119.28
1	M	686	MET	N-CA-CB	-6.11	100.52	110.59
4	2	219	VAL	N-CA-CB	6.11	119.59	111.90
2	H	129	THR	CA-CB-CG2	6.10	120.87	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	219	VAL	N-CA-CB	6.10	119.59	111.90
1	G	631	GLU	CA-C-N	6.10	131.65	120.79
1	G	631	GLU	C-N-CA	6.10	131.65	120.79
4	7	128	ASN	N-CA-CB	-6.10	102.64	111.91
2	E	129	THR	CA-CB-CG2	6.10	120.87	110.50
4	0	205	GLU	N-CA-C	-6.10	104.57	112.68
4	2	205	GLU	N-CA-C	-6.10	104.57	112.68
1	M	136	ASN	CA-C-O	6.09	124.83	119.71
4	8	128	ASN	N-CA-CB	-6.09	102.65	111.91
4	3	128	ASN	N-CA-CB	-6.09	102.65	111.91
4	4	205	GLU	N-CA-C	-6.09	104.58	112.68
1	P	363	ASN	OD1-CG-ND2	6.09	128.69	122.60
4	Z	128	ASN	N-CA-CB	-6.09	102.66	111.91
4	3	205	GLU	N-CA-C	-6.08	104.59	112.68
4	1	128	ASN	N-CA-CB	-6.08	102.66	111.91
4	1	205	GLU	N-CA-C	-6.08	104.59	112.68
4	0	219	VAL	N-CA-CB	6.08	119.56	111.90
2	B	129	THR	CA-CB-CG2	6.08	120.83	110.50
4	0	128	ASN	N-CA-CB	-6.08	102.67	111.91
1	M	231	ALA	O-C-N	6.08	129.74	122.27
4	V	128	ASN	N-CA-CB	-6.07	102.68	111.91
1	G	352	TYR	N-CA-CB	6.07	120.82	110.50
4	4	128	ASN	N-CA-CB	-6.07	102.68	111.91
4	9	205	GLU	N-CA-C	-6.07	104.61	112.68
4	8	205	GLU	N-CA-C	-6.07	104.61	112.68
1	D	479	CYS	N-CA-CB	6.07	118.98	109.94
4	2	128	ASN	N-CA-CB	-6.07	102.69	111.91
4	W	205	GLU	N-CA-C	-6.07	104.61	112.68
4	Z	205	GLU	N-CA-C	-6.07	104.61	112.68
1	D	341	LEU	CB-CA-C	6.06	122.03	110.27
1	P	599	ASN	OD1-CG-ND2	-6.06	116.54	122.60
4	Y	128	ASN	N-CA-CB	-6.06	102.69	111.91
2	K	129	THR	CA-CB-CG2	6.06	120.80	110.50
2	Q	129	THR	CA-CB-CG2	6.06	120.80	110.50
4	8	219	VAL	N-CA-CB	6.06	119.53	111.90
4	9	59	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	P	180	GLU	N-CA-CB	6.05	118.67	110.38
1	J	180	GLU	N-CA-CB	6.05	118.67	110.38
1	A	231	ALA	O-C-N	6.05	129.71	122.27
1	J	363	ASN	OD1-CG-ND2	6.05	128.65	122.60
1	J	686	MET	N-CA-CB	-6.05	100.61	110.59
4	X	128	ASN	N-CA-CB	-6.05	102.72	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	279	LEU	CA-C-N	6.05	125.93	119.28
1	D	279	LEU	C-N-CA	6.05	125.93	119.28
1	G	709	LYS	CA-C-N	6.05	133.26	121.41
1	G	709	LYS	C-N-CA	6.05	133.26	121.41
4	0	95	ARG	CA-CB-CG	6.05	126.19	114.10
1	G	22	LYS	N-CA-C	-6.04	106.51	114.31
1	P	136	ASN	CA-C-O	6.04	124.79	119.71
4	7	205	GLU	N-CA-C	-6.04	104.64	112.68
4	X	205	GLU	N-CA-C	-6.04	104.64	112.68
1	J	136	ASN	CA-C-O	6.04	124.78	119.71
1	M	747	LEU	N-CA-CB	6.04	118.94	109.94
4	4	95	ARG	CA-CB-CG	6.04	126.18	114.10
1	A	308	ASN	CA-C-N	6.04	125.66	119.56
1	A	308	ASN	C-N-CA	6.04	125.66	119.56
4	V	95	ARG	CA-CB-CG	6.04	126.17	114.10
1	P	165	PHE	N-CA-CB	-6.03	100.30	110.49
4	Y	95	ARG	CA-CB-CG	6.03	126.16	114.10
1	G	363	ASN	OD1-CG-ND2	6.03	128.63	122.60
1	P	479	CYS	N-CA-CB	6.03	118.92	109.94
1	P	686	MET	N-CA-CB	-6.03	100.64	110.59
1	A	479	CYS	N-CA-CB	6.03	118.92	109.94
1	G	279	LEU	CA-C-N	6.03	125.91	119.28
1	G	279	LEU	C-N-CA	6.03	125.91	119.28
1	J	165	PHE	N-CA-CB	-6.03	100.31	110.49
1	P	747	LEU	N-CA-CB	6.03	118.92	109.94
4	5	95	ARG	CA-CB-CG	6.03	126.15	114.10
1	M	180	GLU	N-CA-CB	6.02	118.63	110.38
1	P	231	ALA	O-C-N	6.02	129.68	122.27
1	D	180	GLU	N-CA-CB	6.02	118.63	110.38
4	X	59	GLN	OE1-CD-NE2	-6.02	116.58	122.60
4	Z	95	ARG	CA-CB-CG	6.02	126.14	114.10
1	J	231	ALA	O-C-N	6.02	129.67	122.27
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
4	5	219	VAL	N-CA-CB	6.01	119.48	111.90
1	D	686	MET	N-CA-CB	-6.01	100.67	110.59
4	0	59	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	M	363	ASN	OD1-CG-ND2	6.01	128.61	122.60
1	G	165	PHE	N-CA-CB	-6.01	100.33	110.49
1	D	136	ASN	CA-C-O	6.01	124.76	119.71
4	X	95	ARG	CA-CB-CG	6.01	126.11	114.10
4	1	95	ARG	CA-CB-CG	6.00	126.11	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	790	THR	CA-C-O	6.00	126.76	119.31
1	G	686	MET	N-CA-CB	-6.00	100.69	110.59
4	X	5	THR	CA-C-N	6.00	130.74	120.72
4	X	5	THR	C-N-CA	6.00	130.74	120.72
1	A	279	LEU	CA-C-N	6.00	125.88	119.28
1	A	279	LEU	C-N-CA	6.00	125.88	119.28
1	D	231	ALA	O-C-N	6.00	129.65	122.27
1	D	576	GLU	CA-CB-CG	-6.00	102.10	114.10
1	J	479	CYS	N-CA-CB	6.00	118.88	109.94
4	9	95	ARG	CA-CB-CG	6.00	126.10	114.10
4	2	95	ARG	CA-CB-CG	6.00	126.10	114.10
4	5	59	GLN	OE1-CD-NE2	-6.00	116.60	122.60
4	W	59	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	G	231	ALA	O-C-N	6.00	129.65	122.27
1	M	165	PHE	N-CA-CB	-6.00	100.35	110.49
4	7	95	ARG	CA-CB-CG	6.00	126.10	114.10
4	8	95	ARG	CA-CB-CG	6.00	126.10	114.10
4	Z	5	THR	CA-C-N	6.00	130.74	120.72
4	Z	5	THR	C-N-CA	6.00	130.74	120.72
1	P	352	TYR	N-CA-CB	6.00	120.69	110.50
4	0	252	ASN	CA-CB-CG	6.00	118.60	112.60
4	3	95	ARG	CA-CB-CG	6.00	126.09	114.10
4	V	59	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	G	308	ASN	CA-C-N	6.00	125.61	119.56
1	G	308	ASN	C-N-CA	6.00	125.61	119.56
4	1	5	THR	CA-C-N	6.00	130.73	120.72
4	1	5	THR	C-N-CA	6.00	130.73	120.72
4	Y	59	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	G	717	TYR	N-CA-C	5.99	121.25	111.37
1	J	352	TYR	N-CA-CB	5.99	120.68	110.50
1	J	747	LEU	N-CA-CB	5.99	118.86	109.94
4	W	95	ARG	CA-CB-CG	5.99	126.08	114.10
1	A	165	PHE	N-CA-CB	-5.99	100.37	110.49
1	D	165	PHE	N-CA-CB	-5.99	100.37	110.49
4	3	59	GLN	OE1-CD-NE2	-5.99	116.61	122.60
4	V	231	ALA	N-CA-C	5.98	117.47	111.07
1	A	686	MET	N-CA-CB	-5.98	100.72	110.59
4	4	263	GLN	CA-C-N	5.98	125.60	119.56
4	4	263	GLN	C-N-CA	5.98	125.60	119.56
4	8	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
4	4	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
4	2	59	GLN	OE1-CD-NE2	-5.97	116.63	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	352	TYR	N-CA-CB	5.97	120.66	110.50
4	Z	231	ALA	N-CA-C	5.97	117.46	111.07
1	M	576	GLU	CA-CB-CG	-5.97	102.16	114.10
1	G	576	GLU	CA-CB-CG	-5.97	102.16	114.10
2	N	129	THR	CA-CB-CG2	5.97	120.65	110.50
4	8	231	ALA	N-CA-C	5.97	117.46	111.07
4	Y	5	THR	CA-C-N	5.97	130.69	120.72
4	Y	5	THR	C-N-CA	5.97	130.69	120.72
1	A	576	GLU	CA-CB-CG	-5.97	102.17	114.10
4	4	5	THR	CA-C-N	5.97	130.68	120.72
4	4	5	THR	C-N-CA	5.97	130.68	120.72
4	Z	252	ASN	CA-CB-CG	5.96	118.56	112.60
4	5	335	ARG	CA-CB-CG	5.96	126.03	114.10
1	J	576	GLU	CA-CB-CG	-5.96	102.18	114.10
4	0	5	THR	CA-C-N	5.96	130.67	120.72
4	0	5	THR	C-N-CA	5.96	130.67	120.72
4	5	5	THR	CA-C-N	5.96	130.67	120.72
4	5	5	THR	C-N-CA	5.96	130.67	120.72
4	9	5	THR	CA-C-N	5.96	130.67	120.72
4	9	5	THR	C-N-CA	5.96	130.67	120.72
1	P	576	GLU	CA-CB-CG	-5.96	102.19	114.10
1	M	632	GLY	O-C-N	5.95	129.41	122.68
4	0	231	ALA	N-CA-C	5.95	117.44	111.07
4	Y	252	ASN	CA-CB-CG	5.95	118.55	112.60
1	A	632	GLY	O-C-N	5.95	129.41	122.68
1	A	180	GLU	N-CA-CB	5.95	118.53	110.38
4	1	59	GLN	OE1-CD-NE2	-5.95	116.65	122.60
4	X	231	ALA	N-CA-C	5.95	117.43	111.07
4	9	252	ASN	CA-CB-CG	5.95	118.55	112.60
1	M	352	TYR	N-CA-CB	5.94	120.60	110.50
4	4	335	ARG	CA-CB-CG	5.94	125.98	114.10
4	7	5	THR	CA-C-N	5.94	130.64	120.72
4	7	5	THR	C-N-CA	5.94	130.64	120.72
4	8	5	THR	CA-C-N	5.94	130.64	120.72
4	8	5	THR	C-N-CA	5.94	130.64	120.72
4	Z	34	ILE	CB-CA-C	-5.94	102.34	110.90
4	Z	97	ALA	N-CA-C	-5.94	102.29	109.72
4	W	5	THR	CA-C-N	5.94	130.64	120.72
4	W	5	THR	C-N-CA	5.94	130.64	120.72
4	W	252	ASN	CA-CB-CG	5.94	118.54	112.60
4	4	252	ASN	CA-CB-CG	5.94	118.54	112.60
4	3	5	THR	CA-C-N	5.94	130.63	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	5	THR	C-N-CA	5.94	130.63	120.72
4	X	252	ASN	CA-CB-CG	5.94	118.54	112.60
4	Y	335	ARG	CA-CB-CG	5.94	125.97	114.10
4	Z	59	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	D	717	TYR	N-CA-C	5.93	121.16	111.37
4	9	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	2	5	THR	CA-C-N	5.93	130.63	120.72
4	2	5	THR	C-N-CA	5.93	130.63	120.72
4	Y	97	ALA	N-CA-C	-5.93	102.31	109.72
1	A	717	TYR	N-CA-C	5.93	121.15	111.37
4	7	59	GLN	OE1-CD-NE2	-5.93	116.67	122.60
4	X	335	ARG	CA-CB-CG	5.93	125.96	114.10
4	0	263	GLN	CA-C-N	5.93	125.55	119.56
4	0	263	GLN	C-N-CA	5.93	125.55	119.56
4	7	34	ILE	CB-CA-C	-5.93	102.36	110.90
4	Y	231	ALA	N-CA-C	5.93	117.41	111.07
1	A	136	ASN	O-C-N	5.93	126.24	121.38
1	G	278	GLN	OE1-CD-NE2	5.93	128.53	122.60
4	2	263	GLN	CA-C-N	5.93	125.55	119.56
4	2	263	GLN	C-N-CA	5.93	125.55	119.56
1	D	23	GLU	N-CA-C	-5.92	104.90	111.71
1	D	136	ASN	O-C-N	5.92	126.24	121.38
4	2	231	ALA	N-CA-C	5.92	117.41	111.07
4	7	252	ASN	CA-CB-CG	5.92	118.52	112.60
4	Z	335	ARG	CA-CB-CG	5.92	125.95	114.10
1	G	180	GLU	N-CA-CB	5.92	118.50	110.38
1	G	632	GLY	O-C-N	5.92	129.37	122.68
1	P	632	GLY	O-C-N	5.92	129.37	122.68
4	2	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	9	263	GLN	CA-C-N	5.92	125.54	119.56
4	9	263	GLN	C-N-CA	5.92	125.54	119.56
1	G	136	ASN	O-C-N	5.92	126.23	121.38
4	3	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	V	335	ARG	CA-CB-CG	5.92	125.94	114.10
1	P	88	ILE	CB-CG1-CD1	-5.92	101.37	113.80
4	8	335	ARG	CA-CB-CG	5.92	125.94	114.10
1	G	687	GLU	N-CA-CB	5.92	119.00	110.06
4	0	34	ILE	CB-CA-C	-5.92	102.38	110.90
4	0	335	ARG	CA-CB-CG	5.92	125.93	114.10
4	1	335	ARG	CA-CB-CG	5.92	125.93	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	3	34	ILE	CB-CA-C	-5.92	102.38	110.90
4	W	231	ALA	N-CA-C	5.92	117.40	111.07
4	W	335	ARG	CA-CB-CG	5.92	125.93	114.10
4	X	34	ILE	CB-CA-C	-5.92	102.38	110.90
4	1	252	ASN	CA-CB-CG	5.92	118.52	112.60
4	2	252	ASN	CA-CB-CG	5.92	118.52	112.60
4	7	231	ALA	N-CA-C	5.92	117.40	111.07
1	D	747	LEU	N-CA-CB	5.91	118.75	109.94
1	J	753	VAL	N-CA-C	5.91	118.46	109.12
4	1	34	ILE	CB-CA-C	-5.91	102.39	110.90
4	2	233	SER	CA-C-O	5.91	128.97	120.51
4	7	335	ARG	CA-CB-CG	5.91	125.93	114.10
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
1	D	308	ASN	CA-C-N	5.91	125.53	119.56
1	D	308	ASN	C-N-CA	5.91	125.53	119.56
4	4	97	ALA	N-CA-C	-5.91	102.33	109.72
4	9	335	ARG	CA-CB-CG	5.91	125.92	114.10
1	G	753	VAL	N-CA-C	5.91	118.46	109.12
1	M	308	ASN	CA-C-N	5.91	125.53	119.56
1	M	308	ASN	C-N-CA	5.91	125.53	119.56
4	Z	263	GLN	CA-C-N	5.91	125.53	119.56
4	Z	263	GLN	C-N-CA	5.91	125.53	119.56
4	4	34	ILE	CB-CA-C	-5.91	102.39	110.90
1	J	88	ILE	CB-CG1-CD1	-5.91	101.40	113.80
1	M	479	CYS	N-CA-CB	5.91	118.92	110.06
4	4	231	ALA	N-CA-C	5.91	117.39	111.07
4	4	257	CYS	O-C-N	-5.91	116.19	120.27
4	5	263	GLN	CA-C-N	5.91	125.52	119.56
4	5	263	GLN	C-N-CA	5.91	125.52	119.56
4	8	233	SER	CA-C-O	5.91	128.95	120.51
4	W	34	ILE	CB-CA-C	-5.91	102.40	110.90
1	D	632	GLY	O-C-N	5.90	129.35	122.68
1	M	88	ILE	CB-CG1-CD1	-5.90	101.40	113.80
4	8	97	ALA	N-CA-C	-5.90	102.34	109.72
4	Y	34	ILE	CB-CA-C	-5.90	102.40	110.90
1	A	136	ASN	CA-C-O	5.90	124.67	119.71
1	G	136	ASN	CA-C-O	5.90	124.67	119.71
4	9	257	CYS	O-C-N	-5.90	116.20	120.27
4	V	97	ALA	N-CA-C	-5.90	102.34	109.72
4	W	263	GLN	CA-C-N	5.90	125.52	119.56
4	W	263	GLN	C-N-CA	5.90	125.52	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	753	VAL	N-CA-C	5.90	118.44	109.12
4	3	252	ASN	CA-CB-CG	5.90	118.50	112.60
4	5	97	ALA	N-CA-C	-5.90	102.34	109.72
4	5	231	ALA	N-CA-C	5.90	117.38	111.07
4	5	233	SER	CA-C-O	5.90	128.95	120.51
4	V	252	ASN	CA-CB-CG	5.90	118.50	112.60
1	P	753	VAL	N-CA-C	5.90	118.44	109.12
4	1	231	ALA	N-CA-C	5.90	117.38	111.07
4	5	34	ILE	CB-CA-C	-5.90	102.41	110.90
1	A	747	LEU	N-CA-CB	5.90	118.73	109.94
1	A	753	VAL	N-CA-C	5.90	118.44	109.12
1	P	136	ASN	O-C-N	5.90	126.22	121.38
4	2	34	ILE	CB-CA-C	-5.90	102.41	110.90
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	W	233	SER	CA-C-O	5.90	128.94	120.51
1	G	88	ILE	CB-CG1-CD1	-5.89	101.42	113.80
1	J	592	ILE	CA-C-N	-5.89	113.63	122.47
1	J	592	ILE	C-N-CA	-5.89	113.63	122.47
4	1	257	CYS	O-C-N	-5.89	116.20	120.27
4	2	97	ALA	N-CA-C	-5.89	102.35	109.72
4	7	263	GLN	CA-C-N	5.89	125.51	119.56
4	7	263	GLN	C-N-CA	5.89	125.51	119.56
4	X	97	ALA	N-CA-C	-5.89	102.35	109.72
1	G	479	CYS	N-CA-CB	5.89	118.90	110.06
4	1	97	ALA	N-CA-C	-5.89	102.35	109.72
4	5	252	ASN	CA-CB-CG	5.89	118.49	112.60
4	8	263	GLN	CA-C-N	5.89	125.51	119.56
4	8	263	GLN	C-N-CA	5.89	125.51	119.56
1	J	632	GLY	O-C-N	5.89	129.34	122.68
1	P	463	ASP	CA-CB-CG	5.89	118.49	112.60
4	9	97	ALA	N-CA-C	-5.89	102.36	109.72
4	W	97	ALA	N-CA-C	-5.89	102.36	109.72
4	W	257	CYS	O-C-N	-5.89	116.21	120.27
4	X	263	GLN	CA-C-N	5.89	125.51	119.56
4	X	263	GLN	C-N-CA	5.89	125.51	119.56
4	Z	254	ARG	N-CA-CB	-5.89	100.54	110.49
1	D	786	ILE	CB-CA-C	-5.89	104.33	112.04
1	G	747	LEU	N-CA-CB	5.88	118.71	109.94
4	7	233	SER	CA-C-O	5.88	128.92	120.51
4	9	34	ILE	CB-CA-C	-5.88	102.43	110.90
4	3	231	ALA	N-CA-C	5.88	117.36	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	592	ILE	CA-C-N	-5.87	113.66	122.47
1	A	592	ILE	C-N-CA	-5.87	113.66	122.47
1	P	717	TYR	N-CA-C	5.87	121.06	111.37
4	2	257	CYS	O-C-N	-5.87	116.22	120.27
4	0	97	ALA	N-CA-C	-5.87	102.38	109.72
4	1	263	GLN	CA-C-N	5.87	125.49	119.56
4	1	263	GLN	C-N-CA	5.87	125.49	119.56
4	0	233	SER	CA-C-O	5.87	128.90	120.51
4	V	233	SER	CA-C-O	5.87	128.90	120.51
4	1	233	SER	CA-C-O	5.87	128.90	120.51
4	Y	233	SER	CA-C-O	5.87	128.90	120.51
4	Z	233	SER	CA-C-O	5.87	128.90	120.51
1	D	592	ILE	CA-C-N	-5.86	113.68	122.47
1	D	592	ILE	C-N-CA	-5.86	113.68	122.47
4	9	233	SER	CA-C-O	5.86	128.89	120.51
4	V	254	ARG	N-CA-CB	-5.86	100.58	110.49
1	J	136	ASN	O-C-N	5.86	126.19	121.38
4	8	252	ASN	CA-CB-CG	5.86	118.46	112.60
1	A	23	GLU	N-CA-C	-5.86	104.97	111.71
1	J	717	TYR	N-CA-C	5.86	121.04	111.37
1	M	717	TYR	N-CA-C	5.86	121.04	111.37
4	V	34	ILE	CB-CA-C	-5.86	102.46	110.90
4	X	257	CYS	O-C-N	-5.86	116.23	120.27
4	V	263	GLN	CA-C-N	5.86	125.48	119.56
4	V	263	GLN	C-N-CA	5.86	125.48	119.56
4	7	97	ALA	N-CA-C	-5.86	102.40	109.72
1	P	592	ILE	CA-C-N	-5.85	113.69	122.47
1	P	592	ILE	C-N-CA	-5.85	113.69	122.47
1	M	592	ILE	CA-C-N	-5.85	113.69	122.47
1	M	592	ILE	C-N-CA	-5.85	113.69	122.47
4	3	97	ALA	N-CA-C	-5.85	102.41	109.72
4	W	254	ARG	N-CA-CB	-5.85	100.60	110.49
1	D	88	ILE	CB-CG1-CD1	-5.85	101.51	113.80
1	M	136	ASN	O-C-N	5.85	126.18	121.38
1	J	463	ASP	CA-CB-CG	5.85	118.45	112.60
1	P	687	GLU	N-CA-CB	5.85	118.89	110.06
4	Y	257	CYS	O-C-N	-5.85	116.24	120.27
4	8	34	ILE	CB-CA-C	-5.85	102.48	110.90
4	X	233	SER	CA-C-O	5.84	128.87	120.51
1	A	88	ILE	CB-CG1-CD1	-5.84	101.54	113.80
1	P	217	THR	O-C-N	5.84	130.04	123.27
4	3	257	CYS	O-C-N	-5.84	116.24	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	257	CYS	O-C-N	-5.84	116.24	120.27
1	P	308	ASN	CA-C-N	5.84	125.46	119.56
1	P	308	ASN	C-N-CA	5.84	125.46	119.56
1	P	790	THR	CA-C-O	5.84	126.55	119.31
1	J	739	ASP	N-CA-CB	5.83	119.64	110.71
4	0	254	ARG	N-CA-CB	-5.83	100.63	110.49
4	V	257	CYS	O-C-N	-5.83	116.24	120.27
1	G	217	THR	O-C-N	5.83	130.04	123.27
1	G	463	ASP	CA-CB-CG	5.83	118.43	112.60
4	7	254	ARG	N-CA-CB	-5.83	100.63	110.49
1	M	463	ASP	CA-CB-CG	5.83	118.43	112.60
4	3	233	SER	CA-C-O	5.83	128.85	120.51
4	5	254	ARG	N-CA-CB	-5.83	100.64	110.49
1	D	739	ASP	N-CA-CB	5.83	119.63	110.71
1	D	753	VAL	N-CA-C	5.83	118.33	109.12
4	0	257	CYS	O-C-N	-5.83	116.25	120.27
1	D	463	ASP	CA-CB-CG	5.82	118.42	112.60
1	G	739	ASP	N-CA-CB	5.82	119.62	110.71
4	3	254	ARG	N-CA-CB	-5.82	100.65	110.49
4	8	254	ARG	N-CA-CB	-5.82	100.65	110.49
4	9	254	ARG	N-CA-CB	-5.82	100.65	110.49
4	Y	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	D	278	GLN	OE1-CD-NE2	5.82	128.42	122.60
4	X	254	ARG	N-CA-CB	-5.82	100.66	110.49
4	Y	254	ARG	N-CA-CB	-5.82	100.66	110.49
1	M	217	THR	O-C-N	5.81	130.01	123.27
4	Z	257	CYS	O-C-N	-5.81	116.26	120.27
1	J	308	ASN	CA-C-N	5.81	125.43	119.56
1	J	308	ASN	C-N-CA	5.81	125.43	119.56
1	P	739	ASP	N-CA-CB	5.81	119.60	110.71
4	4	233	SER	CA-C-O	5.81	128.82	120.51
1	M	687	GLU	N-CA-CB	5.81	118.83	110.06
1	M	790	THR	CA-C-O	5.81	126.51	119.31
1	D	687	GLU	N-CA-CB	5.81	118.83	110.06
4	Y	185	LEU	N-CA-C	5.80	118.39	111.71
1	J	687	GLU	N-CA-CB	5.80	118.82	110.06
4	1	254	ARG	N-CA-CB	-5.80	100.68	110.49
1	J	217	THR	O-C-N	5.80	130.00	123.27
1	M	718	ALA	O-C-N	5.80	128.76	122.15
4	V	113	LYS	CA-CB-CG	5.80	125.70	114.10
4	2	113	LYS	CA-CB-CG	5.80	125.70	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	5	257	CYS	O-C-N	-5.79	116.27	120.27
1	G	739	ASP	CB-CA-C	-5.79	102.74	110.79
1	A	786	ILE	CB-CA-C	-5.79	104.45	112.04
4	3	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	7	257	CYS	O-C-N	-5.79	116.27	120.27
4	W	113	LYS	CA-CB-CG	5.79	125.68	114.10
1	J	790	THR	CA-C-O	5.79	126.49	119.31
4	1	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	2	254	ARG	N-CA-CB	-5.79	100.71	110.49
4	Z	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	5	161	HIS	CB-CG-CD2	-5.79	123.68	131.20
4	X	113	LYS	CA-CB-CG	5.78	125.67	114.10
4	0	113	LYS	CA-CB-CG	5.78	125.66	114.10
4	0	161	HIS	CB-CG-CD2	-5.78	123.69	131.20
4	3	335	ARG	N-CA-C	5.78	123.11	110.80
4	4	254	ARG	N-CA-CB	-5.78	100.73	110.49
4	X	263	GLN	OE1-CD-NE2	-5.78	116.82	122.60
4	X	161	HIS	CB-CG-CD2	-5.77	123.69	131.20
4	Z	161	HIS	CB-CG-CD2	-5.77	123.70	131.20
1	P	718	ALA	O-C-N	5.77	128.73	122.15
4	8	113	LYS	CA-CB-CG	5.77	125.64	114.10
1	A	687	GLU	N-CA-CB	5.77	118.77	110.06
1	J	278	GLN	OE1-CD-NE2	5.77	128.37	122.60
1	M	739	ASP	N-CA-CB	5.77	119.54	110.71
1	A	790	THR	CA-C-O	5.77	126.46	119.31
4	Z	335	ARG	N-CA-C	5.77	123.08	110.80
4	5	113	LYS	CA-CB-CG	5.77	125.63	114.10
4	2	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
4	8	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
4	9	113	LYS	CA-CB-CG	5.76	125.63	114.10
4	Y	335	ARG	N-CA-C	5.76	123.08	110.80
4	Y	161	HIS	CB-CG-CD2	-5.76	123.71	131.20
2	E	138	ALA	CA-C-N	-5.76	110.87	121.41
2	E	138	ALA	C-N-CA	-5.76	110.87	121.41
4	7	113	LYS	CA-CB-CG	5.76	125.62	114.10
4	2	135	ALA	O-C-N	-5.76	116.61	123.06
1	A	718	ALA	O-C-N	5.76	128.71	122.15
1	G	23	GLU	N-CA-C	-5.76	105.09	111.71
4	4	135	ALA	O-C-N	-5.76	116.61	123.06
4	4	335	ARG	N-CA-C	5.76	123.06	110.80
4	8	263	GLN	OE1-CD-NE2	-5.75	116.84	122.60
4	0	335	ARG	N-CA-C	5.75	123.06	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	V	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	W	335	ARG	N-CA-C	5.75	123.06	110.80
4	4	113	LYS	CA-CB-CG	5.75	125.60	114.10
4	7	335	ARG	N-CA-C	5.75	123.05	110.80
4	9	135	ALA	O-C-N	-5.75	116.62	123.06
4	9	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	9	335	ARG	N-CA-C	5.75	123.05	110.80
1	D	828	HIS	CA-C-N	5.75	129.25	121.20
1	D	828	HIS	C-N-CA	5.75	129.25	121.20
1	M	23	GLU	N-CA-C	-5.75	105.10	111.71
1	M	278	GLN	OE1-CD-NE2	5.75	128.35	122.60
4	4	161	HIS	CB-CG-CD2	-5.75	123.73	131.20
1	D	718	ALA	O-C-N	5.75	128.70	122.15
1	J	23	GLU	N-CA-C	-5.75	105.10	111.71
4	W	161	HIS	CB-CG-CD2	-5.75	123.73	131.20
1	P	23	GLU	N-CA-C	-5.75	105.10	111.71
1	A	739	ASP	N-CA-CB	5.74	119.50	110.71
1	G	433	VAL	N-CA-C	5.74	115.93	110.42
4	2	335	ARG	N-CA-C	5.74	123.03	110.80
4	5	335	ARG	N-CA-C	5.74	123.03	110.80
4	1	335	ARG	N-CA-C	5.74	123.03	110.80
1	A	217	THR	O-C-N	5.74	129.93	123.27
4	0	263	GLN	OE1-CD-NE2	-5.74	116.86	122.60
4	X	335	ARG	N-CA-C	5.74	123.03	110.80
4	V	263	GLN	OE1-CD-NE2	-5.74	116.86	122.60
4	8	135	ALA	O-C-N	-5.74	116.64	123.06
4	V	335	ARG	N-CA-C	5.74	123.02	110.80
1	G	828	HIS	CA-C-N	5.73	129.22	121.20
1	G	828	HIS	C-N-CA	5.73	129.22	121.20
1	P	278	GLN	OE1-CD-NE2	5.73	128.33	122.60
4	7	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
2	B	138	ALA	CA-C-N	-5.73	110.92	121.41
2	B	138	ALA	C-N-CA	-5.73	110.92	121.41
4	5	135	ALA	O-C-N	-5.73	116.64	123.06
1	J	718	ALA	O-C-N	5.73	128.68	122.15
1	G	790	THR	CA-C-O	5.73	126.41	119.31
4	1	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
4	8	335	ARG	N-CA-C	5.73	123.00	110.80
1	M	828	HIS	CA-C-N	5.72	129.21	121.20
1	M	828	HIS	C-N-CA	5.72	129.21	121.20
4	2	263	GLN	OE1-CD-NE2	-5.72	116.88	122.60
2	Q	138	ALA	CA-C-N	-5.72	110.94	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Q	138	ALA	C-N-CA	-5.72	110.94	121.41
4	2	262	PHE	CA-CB-CG	-5.72	108.08	113.80
2	H	138	ALA	CA-C-N	-5.71	110.96	121.41
2	H	138	ALA	C-N-CA	-5.71	110.96	121.41
4	V	262	PHE	CA-CB-CG	-5.71	108.09	113.80
1	A	463	ASP	CA-CB-CG	5.71	118.31	112.60
1	P	786	ILE	CB-CA-C	-5.71	104.40	111.94
1	M	433	VAL	N-CA-C	5.71	115.90	110.42
4	W	135	ALA	O-C-N	-5.71	116.67	123.06
4	Y	135	ALA	O-C-N	-5.71	116.67	123.06
4	Z	185	LEU	N-CA-C	5.71	118.44	111.82
4	1	263	GLN	OE1-CD-NE2	-5.70	116.90	122.60
3	I	63	ILE	CB-CA-C	5.70	120.74	110.48
4	7	135	ALA	O-C-N	-5.70	116.68	123.06
4	2	185	LEU	N-CA-C	5.70	118.43	111.82
4	1	135	ALA	O-C-N	-5.70	116.68	123.06
4	4	263	GLN	OE1-CD-NE2	-5.70	116.91	122.60
1	J	739	ASP	CB-CA-C	-5.69	102.88	110.79
4	X	135	ALA	O-C-N	-5.69	116.68	123.06
3	F	63	ILE	CB-CA-C	5.69	120.72	110.48
1	P	291	ILE	N-CA-C	5.69	117.11	110.62
4	5	185	LEU	N-CA-C	5.69	118.42	111.82
4	Y	262	PHE	CA-CB-CG	-5.69	108.11	113.80
4	4	262	PHE	CA-CB-CG	-5.69	108.11	113.80
1	J	346	ASP	N-CA-CB	-5.69	101.18	109.82
1	P	257	THR	N-CA-C	-5.69	104.77	110.97
3	R	63	ILE	CB-CA-C	5.69	120.72	110.48
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	0	135	ALA	O-C-N	-5.68	116.69	123.06
4	3	161	HIS	CB-CG-CD2	-5.68	123.81	131.20
1	D	217	THR	O-C-N	5.68	129.86	123.27
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
4	X	185	LEU	N-CA-C	5.68	118.41	111.82
1	D	739	ASP	CB-CA-C	-5.68	102.89	110.79
4	8	262	PHE	CA-CB-CG	-5.68	108.12	113.80
1	J	433	VAL	N-CA-C	5.68	115.87	110.42
4	9	185	LEU	N-CA-C	5.68	118.41	111.82
4	W	262	PHE	CA-CB-CG	-5.68	108.12	113.80
3	O	63	ILE	CB-CA-C	5.68	120.70	110.48
4	V	185	LEU	N-CA-C	5.68	118.40	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	22	LYS	CB-CA-C	5.67	118.55	109.02
1	P	433	VAL	N-CA-C	5.67	115.87	110.42
4	3	185	LEU	N-CA-C	5.67	118.40	111.82
4	3	135	ALA	O-C-N	-5.67	116.71	123.06
1	M	22	LYS	CB-CA-C	5.67	118.55	109.02
1	A	22	LYS	CB-CA-C	5.67	118.54	109.02
1	M	739	ASP	CB-CA-C	-5.67	102.91	110.79
2	K	138	ALA	CA-C-N	-5.67	111.04	121.41
2	K	138	ALA	C-N-CA	-5.67	111.04	121.41
4	W	263	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	A	351	ILE	CB-CA-C	-5.66	104.63	111.88
1	J	22	LYS	CB-CA-C	5.66	118.53	109.02
1	P	346	ASP	N-CA-CB	-5.66	101.22	109.82
4	4	185	LEU	N-CA-C	5.66	118.39	111.82
1	J	291	ILE	N-CA-C	5.66	117.07	110.62
1	M	257	THR	N-CA-C	-5.66	104.80	110.97
1	P	828	HIS	CA-C-N	5.66	129.12	121.20
1	P	828	HIS	C-N-CA	5.66	129.12	121.20
4	1	185	LEU	N-CA-C	5.66	118.39	111.82
4	5	262	PHE	CA-CB-CG	-5.66	108.14	113.80
4	Y	263	GLN	OE1-CD-NE2	-5.66	116.94	122.60
4	V	135	ALA	O-C-N	-5.66	116.73	123.06
1	D	196	PHE	CA-CB-CG	-5.65	108.15	113.80
1	D	755	HIS	CA-C-N	5.65	129.57	121.71
1	D	755	HIS	C-N-CA	5.65	129.57	121.71
1	M	346	ASP	N-CA-CB	-5.65	101.23	109.82
1	A	433	VAL	N-CA-C	5.65	115.84	110.42
4	3	263	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	D	433	VAL	N-CA-C	5.65	115.84	110.42
1	J	257	THR	N-CA-C	-5.65	104.81	110.97
1	M	568	PRO	CB-CA-C	-5.65	104.00	111.23
1	A	346	ASP	N-CA-CB	-5.65	101.24	109.82
1	D	351	ILE	CB-CA-C	-5.64	104.66	111.88
1	P	22	LYS	CB-CA-C	5.64	118.50	109.02
4	8	185	LEU	N-CA-C	5.64	118.37	111.82
4	9	263	GLN	OE1-CD-NE2	-5.64	116.96	122.60
4	1	262	PHE	CA-CB-CG	-5.64	108.16	113.80
4	Z	135	ALA	O-C-N	-5.64	116.74	123.06
1	G	22	LYS	CB-CA-C	5.64	118.49	109.02
1	P	568	PRO	CB-CA-C	-5.64	104.01	111.23
1	M	291	ILE	N-CA-C	5.64	117.05	110.62
1	P	739	ASP	CB-CA-C	-5.64	102.96	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	0	185	LEU	N-CA-C	5.64	118.36	111.82
4	7	185	LEU	N-CA-C	5.63	118.36	111.82
1	D	291	ILE	N-CA-C	5.63	117.04	110.62
4	Z	262	PHE	CA-CB-CG	-5.63	108.17	113.80
4	X	262	PHE	CA-CB-CG	-5.62	108.17	113.80
4	5	263	GLN	OE1-CD-NE2	-5.62	116.98	122.60
4	9	262	PHE	CA-CB-CG	-5.62	108.18	113.80
1	A	739	ASP	CB-CA-C	-5.62	102.98	110.79
1	J	568	PRO	CB-CA-C	-5.62	104.04	111.23
4	W	185	LEU	N-CA-C	5.62	118.34	111.82
3	L	63	ILE	CB-CA-C	5.62	120.59	110.48
3	C	63	ILE	CB-CA-C	5.62	120.59	110.48
1	M	351	ILE	CB-CA-C	-5.62	104.69	111.88
4	7	262	PHE	CA-CB-CG	-5.62	108.19	113.80
4	Z	263	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	P	786	ILE	N-CA-C	5.61	115.84	110.74
4	7	263	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	A	755	HIS	CA-C-N	5.60	129.50	121.71
1	A	755	HIS	C-N-CA	5.60	129.50	121.71
1	G	623	PHE	CB-CG-CD2	-5.60	111.18	120.70
1	J	755	HIS	CA-C-N	5.60	129.50	121.71
1	J	755	HIS	C-N-CA	5.60	129.50	121.71
1	P	309	PRO	CB-CA-C	-5.60	103.50	111.68
1	J	351	ILE	CB-CA-C	-5.60	104.72	111.88
1	M	671	PHE	N-CA-C	5.59	118.94	109.76
1	G	351	ILE	CB-CA-C	-5.59	104.72	111.88
1	A	568	PRO	CB-CA-C	-5.59	104.08	111.23
1	P	351	ILE	CB-CA-C	-5.59	104.73	111.88
1	A	291	ILE	N-CA-C	5.59	116.99	110.62
1	G	718	ALA	O-C-N	5.58	128.52	122.15
1	M	623	PHE	CB-CG-CD2	-5.58	111.20	120.70
1	J	623	PHE	CB-CG-CD2	-5.58	111.21	120.70
1	A	828	HIS	CA-C-N	5.58	129.01	121.20
1	A	828	HIS	C-N-CA	5.58	129.01	121.20
1	A	196	PHE	CA-CB-CG	-5.58	108.22	113.80
4	3	262	PHE	CA-CB-CG	-5.58	108.22	113.80
1	D	346	ASP	N-CA-CB	-5.58	101.34	109.82
1	D	309	PRO	CB-CA-C	-5.57	103.54	111.68
1	P	671	PHE	N-CA-C	5.57	118.90	109.76
1	A	623	PHE	CB-CG-CD2	-5.57	111.23	120.70
1	G	309	PRO	CB-CA-C	-5.57	103.55	111.68
1	G	755	HIS	CA-C-N	5.57	129.45	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	755	HIS	C-N-CA	5.57	129.45	121.71
1	J	671	PHE	N-CA-C	5.57	118.89	109.76
1	M	196	PHE	CA-CB-CG	-5.57	108.23	113.80
1	P	755	HIS	CA-C-N	5.57	129.45	121.71
1	P	755	HIS	C-N-CA	5.57	129.45	121.71
1	D	257	THR	N-CA-C	-5.56	104.91	110.97
1	J	196	PHE	CA-CB-CG	-5.56	108.24	113.80
1	P	623	PHE	CB-CG-CD2	-5.56	111.25	120.70
4	9	44	MET	N-CA-C	-5.56	102.29	110.52
1	G	346	ASP	N-CA-CB	-5.55	101.38	109.82
1	P	196	PHE	CA-CB-CG	-5.55	108.25	113.80
4	0	44	MET	N-CA-C	-5.55	102.30	110.52
4	5	275	HIS	CB-CG-CD2	-5.55	123.99	131.20
4	X	44	MET	N-CA-C	-5.54	102.31	110.52
1	D	623	PHE	CB-CG-CD2	-5.54	111.28	120.70
1	G	568	PRO	CB-CA-C	-5.54	104.14	111.23
1	M	333	ALA	CA-C-O	5.54	126.83	120.90
4	1	275	HIS	CB-CG-CD2	-5.54	124.00	131.20
4	Z	44	MET	N-CA-C	-5.54	102.32	110.52
4	2	44	MET	N-CA-C	-5.54	102.32	110.52
4	X	137	GLN	CA-C-O	-5.54	115.18	121.00
4	8	275	HIS	CB-CG-CD2	-5.54	124.00	131.20
4	V	137	GLN	CA-C-O	-5.54	115.19	121.00
1	G	785	GLU	CA-C-N	-5.54	112.00	121.97
1	G	785	GLU	C-N-CA	-5.54	112.00	121.97
1	A	257	THR	N-CA-C	-5.54	104.94	110.97
1	M	309	PRO	CB-CA-C	-5.54	103.60	111.68
4	3	137	GLN	CA-C-O	-5.54	115.19	121.00
4	W	44	MET	N-CA-C	-5.54	102.33	110.52
1	G	257	THR	N-CA-C	-5.53	104.94	110.97
4	8	349	LEU	CA-C-N	5.53	127.69	120.28
4	8	349	LEU	C-N-CA	5.53	127.69	120.28
1	P	333	ALA	CA-C-O	5.53	126.82	120.90
1	G	671	PHE	N-CA-C	5.53	118.82	109.76
1	J	309	PRO	CB-CA-C	-5.52	103.61	111.68
4	4	275	HIS	CB-CG-CD2	-5.52	124.02	131.20
1	D	568	PRO	CB-CA-C	-5.52	104.16	111.23
4	7	275	HIS	CB-CG-CD2	-5.52	124.02	131.20
1	M	755	HIS	CA-C-N	5.52	129.38	121.71
1	M	755	HIS	C-N-CA	5.52	129.38	121.71
4	8	44	MET	N-CA-C	-5.52	102.35	110.52
4	9	137	GLN	CA-C-O	-5.51	115.21	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	275	HIS	CB-CG-CD2	-5.51	124.03	131.20
4	7	200	PHE	CA-C-O	5.51	127.89	121.11
4	8	312	ARG	NE-CZ-NH2	5.51	124.16	119.20
4	9	275	HIS	CB-CG-CD2	-5.51	124.04	131.20
1	D	671	PHE	N-CA-C	5.51	118.79	109.76
4	3	44	MET	N-CA-C	-5.51	102.37	110.52
4	7	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	4	44	MET	N-CA-C	-5.50	102.38	110.52
4	V	44	MET	N-CA-C	-5.50	102.38	110.52
4	W	200	PHE	CA-C-O	5.50	127.88	121.11
4	X	275	HIS	CB-CG-CD2	-5.50	124.04	131.20
4	3	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	G	203	GLY	N-CA-C	-5.50	106.22	115.62
4	2	116	ARG	N-CA-C	-5.50	105.29	111.28
4	8	200	PHE	CA-C-O	5.50	127.87	121.11
4	W	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	D	333	ALA	CA-C-O	5.49	126.78	120.90
4	8	137	GLN	CA-C-O	-5.49	115.24	121.00
4	V	349	LEU	CA-C-N	5.49	127.64	120.28
4	V	349	LEU	C-N-CA	5.49	127.64	120.28
4	0	275	HIS	CB-CG-CD2	-5.49	124.06	131.20
4	2	200	PHE	CA-C-O	5.49	127.86	121.11
4	2	312	ARG	NE-CZ-NH2	5.49	124.14	119.20
4	W	137	GLN	CA-C-O	-5.49	115.24	121.00
4	2	275	HIS	CB-CG-CD2	-5.49	124.07	131.20
4	0	262	PHE	CA-CB-CG	-5.49	108.31	113.80
4	3	200	PHE	CA-C-O	5.49	127.86	121.11
4	V	275	HIS	CB-CG-CD2	-5.49	124.07	131.20
4	X	200	PHE	CA-C-O	5.48	127.85	121.11
4	4	200	PHE	CA-C-O	5.48	127.85	121.11
4	Y	200	PHE	CA-C-O	5.48	127.85	121.11
4	7	349	LEU	CA-C-N	5.48	127.62	120.28
4	7	349	LEU	C-N-CA	5.48	127.62	120.28
4	V	200	PHE	CA-C-O	5.48	127.84	121.11
1	D	632	GLY	N-CA-C	5.47	120.78	114.16
4	0	312	ARG	NE-CZ-NH2	5.47	124.13	119.20
4	Y	137	GLN	CA-C-O	-5.47	115.25	121.00
4	1	137	GLN	CA-C-O	-5.47	115.25	121.00
4	9	226	GLU	N-CA-C	-5.47	107.25	114.04
1	G	173	GLN	N-CA-CB	-5.47	102.84	111.05
1	G	632	GLY	N-CA-C	5.47	120.78	114.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	9	312	ARG	NE-CZ-NH2	5.47	124.12	119.20
4	0	200	PHE	CA-C-O	5.47	127.84	121.11
4	9	200	PHE	CA-C-O	5.47	127.84	121.11
1	G	291	ILE	N-CA-C	5.47	116.85	110.62
4	0	349	LEU	CA-C-N	5.47	127.61	120.28
4	0	349	LEU	C-N-CA	5.47	127.61	120.28
4	3	31	PHE	CA-CB-CG	5.47	119.27	113.80
4	Z	200	PHE	CA-C-O	5.47	127.83	121.11
1	A	671	PHE	N-CA-C	5.46	118.72	109.76
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	Y	44	MET	N-CA-C	-5.46	102.43	110.52
4	Z	137	GLN	CA-C-O	-5.46	115.26	121.00
4	1	200	PHE	CA-C-O	5.46	127.83	121.11
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
1	A	309	PRO	CB-CA-C	-5.46	103.70	111.68
1	M	173	GLN	N-CA-CB	-5.46	102.86	111.05
4	5	44	MET	N-CA-C	-5.46	102.44	110.52
4	W	349	LEU	CA-C-N	5.46	127.60	120.28
4	W	349	LEU	C-N-CA	5.46	127.60	120.28
4	Y	275	HIS	CB-CG-CD2	-5.46	124.10	131.20
4	Z	312	ARG	NE-CZ-NH2	5.46	124.11	119.20
4	1	44	MET	N-CA-C	-5.46	102.44	110.52
4	5	137	GLN	CA-C-O	-5.46	115.27	121.00
1	J	173	GLN	N-CA-CB	-5.46	102.86	111.05
4	2	349	LEU	CA-C-N	5.46	127.59	120.28
4	2	349	LEU	C-N-CA	5.46	127.59	120.28
4	3	349	LEU	CA-C-N	5.46	127.59	120.28
4	3	349	LEU	C-N-CA	5.46	127.59	120.28
4	X	349	LEU	CA-C-N	5.46	127.59	120.28
4	X	349	LEU	C-N-CA	5.46	127.59	120.28
4	Z	349	LEU	CA-C-N	5.46	127.59	120.28
4	Z	349	LEU	C-N-CA	5.46	127.59	120.28
4	0	137	GLN	CA-C-O	-5.46	115.27	121.00
4	4	137	GLN	CA-C-O	-5.46	115.27	121.00
4	5	226	GLU	N-CA-C	-5.46	107.28	114.04
4	1	116	ARG	N-CA-C	-5.45	105.34	111.28
1	G	196	PHE	CA-CB-CG	-5.45	108.35	113.80
1	G	333	ALA	CA-C-O	5.45	126.73	120.90
1	A	333	ALA	CA-C-O	5.45	126.73	120.90
4	4	226	GLU	N-CA-C	-5.45	107.28	114.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	31	PHE	CA-CB-CG	5.45	119.25	113.80
4	Z	116	ARG	N-CA-C	-5.45	105.34	111.28
1	P	173	GLN	N-CA-CB	-5.45	102.88	111.05
4	Y	226	GLU	N-CA-C	-5.45	107.29	114.04
4	0	31	PHE	CA-CB-CG	5.44	119.24	113.80
4	1	31	PHE	CA-CB-CG	5.44	119.24	113.80
4	1	312	ARG	NE-CZ-NH2	5.44	124.10	119.20
4	V	312	ARG	NE-CZ-NH2	5.44	124.10	119.20
4	W	312	ARG	NE-CZ-NH2	5.44	124.10	119.20
4	Y	349	LEU	CA-C-N	5.44	127.57	120.28
4	Y	349	LEU	C-N-CA	5.44	127.57	120.28
1	J	632	GLY	N-CA-C	5.44	120.74	114.16
4	5	349	LEU	CA-C-N	5.44	127.57	120.28
4	5	349	LEU	C-N-CA	5.44	127.57	120.28
4	7	116	ARG	N-CA-C	-5.44	105.35	111.28
1	A	305	ILE	CB-CA-C	-5.44	103.73	111.34
1	M	305	ILE	CB-CA-C	-5.43	103.73	111.34
1	P	632	GLY	N-CA-C	5.43	120.74	114.16
4	4	349	LEU	CA-C-N	5.43	127.56	120.28
4	4	349	LEU	C-N-CA	5.43	127.56	120.28
4	5	31	PHE	CA-CB-CG	5.43	119.23	113.80
4	V	31	PHE	CA-CB-CG	5.43	119.23	113.80
4	X	31	PHE	CA-CB-CG	5.43	119.23	113.80
1	D	305	ILE	CB-CA-C	-5.43	103.73	111.34
1	M	632	GLY	N-CA-C	5.43	120.73	114.16
1	P	203	GLY	N-CA-C	-5.43	106.33	115.62
4	5	200	PHE	CA-C-O	5.43	127.79	121.11
4	5	312	ARG	NE-CZ-NH2	5.43	124.09	119.20
4	X	237	GLU	N-CA-C	5.43	117.30	110.24
4	Y	312	ARG	NE-CZ-NH2	5.43	124.09	119.20
4	4	31	PHE	CA-CB-CG	5.43	119.23	113.80
1	J	291	ILE	CB-CA-C	-5.42	104.93	112.04
4	W	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	X	116	ARG	N-CA-C	-5.42	105.37	111.28
4	7	226	GLU	N-CA-C	-5.42	107.32	114.04
4	Y	116	ARG	N-CA-C	-5.42	105.37	111.28
1	D	203	GLY	N-CA-C	-5.42	106.35	115.62
1	J	203	GLY	N-CA-C	-5.42	106.36	115.62
4	7	137	GLN	CA-C-O	-5.42	115.31	121.00
4	W	237	GLU	N-CA-C	5.42	117.28	110.24
4	7	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	X	312	ARG	NE-CZ-NH2	5.42	124.07	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Y	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	V	226	GLU	N-CA-C	-5.41	107.33	114.04
4	0	226	GLU	N-CA-C	-5.41	107.33	114.04
1	D	173	GLN	N-CA-CB	-5.41	102.94	111.05
1	D	291	ILE	CB-CA-C	-5.41	104.95	112.04
4	3	226	GLU	N-CA-C	-5.41	107.33	114.04
4	2	31	PHE	CA-CB-CG	5.41	119.21	113.80
4	3	257	CYS	N-CA-CB	-5.41	105.25	110.39
4	8	226	GLU	N-CA-C	-5.41	107.33	114.04
1	A	632	GLY	N-CA-C	5.40	120.70	114.16
1	J	333	ALA	CA-C-O	5.40	126.68	120.90
1	P	305	ILE	CB-CA-C	-5.40	103.78	111.34
4	3	312	ARG	NE-CZ-NH2	5.40	124.06	119.20
4	5	116	ARG	N-CA-C	-5.40	105.39	111.28
4	9	116	ARG	N-CA-C	-5.40	105.39	111.28
4	Z	257	CYS	N-CA-CB	-5.40	105.26	110.39
1	G	305	ILE	CB-CA-C	-5.40	103.78	111.34
1	M	291	ILE	CB-CA-C	-5.40	104.97	112.04
4	X	226	GLU	N-CA-C	-5.40	107.35	114.04
4	4	237	GLU	N-CA-C	5.40	117.25	110.24
1	M	203	GLY	N-CA-C	-5.39	106.39	115.62
4	0	116	ARG	N-CA-C	-5.39	105.40	111.28
4	1	226	GLU	N-CA-C	-5.39	107.35	114.04
4	2	257	CYS	N-CA-CB	-5.39	105.27	110.39
4	9	31	PHE	CA-CB-CG	5.39	119.19	113.80
4	Z	226	GLU	N-CA-C	-5.39	107.35	114.04
4	2	237	GLU	N-CA-C	5.39	117.25	110.24
4	7	237	GLU	N-CA-C	5.39	117.25	110.24
4	V	116	ARG	N-CA-C	-5.39	105.40	111.28
4	7	332	PRO	CA-C-N	5.39	124.73	118.85
4	7	332	PRO	C-N-CA	5.39	124.73	118.85
1	A	173	GLN	N-CA-CB	-5.39	102.97	111.05
1	A	203	GLY	N-CA-C	-5.39	106.41	115.62
1	P	291	ILE	CB-CA-C	-5.39	104.98	112.04
4	0	257	CYS	N-CA-CB	-5.39	105.27	110.39
4	2	226	GLU	N-CA-C	-5.38	107.36	114.04
4	4	116	ARG	N-CA-C	-5.38	105.41	111.28
4	5	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	7	312	ARG	NE-CZ-NH2	5.38	124.05	119.20
4	1	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	9	349	LEU	O-C-N	5.38	129.49	122.87
1	G	649	VAL	CA-C-N	5.38	131.82	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	649	VAL	C-N-CA	5.38	131.82	121.54
4	X	91	TYR	N-CA-C	5.38	119.01	112.23
4	0	332	PRO	CA-C-N	5.37	124.71	118.85
4	0	332	PRO	C-N-CA	5.37	124.71	118.85
4	8	257	CYS	N-CA-CB	-5.37	105.28	110.39
4	V	332	PRO	CA-C-N	5.37	124.71	118.85
4	V	332	PRO	C-N-CA	5.37	124.71	118.85
4	8	31	PHE	CA-CB-CG	5.37	119.17	113.80
4	W	226	GLU	N-CA-C	-5.37	107.38	114.04
4	8	116	ARG	N-CA-C	-5.37	105.43	111.28
1	J	305	ILE	CB-CA-C	-5.37	103.82	111.34
1	M	709	LYS	CA-C-N	5.37	131.93	121.41
1	M	709	LYS	C-N-CA	5.37	131.93	121.41
4	5	237	GLU	N-CA-C	5.37	117.22	110.24
4	9	257	CYS	N-CA-CB	-5.37	105.29	110.39
4	8	237	GLU	N-CA-C	5.37	117.22	110.24
4	Z	349	LEU	O-C-N	5.37	129.47	122.87
4	3	77	THR	N-CA-CB	-5.37	102.64	110.47
4	4	257	CYS	N-CA-CB	-5.37	105.29	110.39
4	9	237	GLU	N-CA-C	5.36	117.21	110.24
4	0	91	TYR	N-CA-C	5.36	118.99	112.23
1	G	772	LEU	N-CA-C	-5.36	104.89	111.75
4	V	257	CYS	N-CA-CB	-5.36	105.30	110.39
4	Y	237	GLU	N-CA-C	5.36	117.21	110.24
4	1	237	GLU	N-CA-C	5.36	117.20	110.24
4	8	77	THR	N-CA-CB	-5.36	102.65	110.47
4	V	77	THR	N-CA-CB	-5.36	102.65	110.47
4	W	257	CYS	N-CA-CB	-5.36	105.30	110.39
4	2	137	GLN	CA-C-O	-5.36	115.38	121.00
4	4	312	ARG	NE-CZ-NH2	5.35	124.02	119.20
1	A	291	ILE	CB-CA-C	-5.35	105.03	112.04
1	A	329	GLU	CA-C-O	5.35	126.09	120.42
1	G	291	ILE	CB-CA-C	-5.35	105.03	112.04
4	W	79	TRP	CG-CD2-CE3	5.35	139.25	133.90
4	X	257	CYS	N-CA-CB	-5.35	105.31	110.39
4	Y	77	THR	N-CA-CB	-5.35	102.65	110.47
1	P	447	GLN	CB-CA-C	5.35	119.67	110.79
4	9	77	THR	N-CA-CB	-5.35	102.66	110.47
4	X	77	THR	N-CA-CB	-5.35	102.66	110.47
1	M	447	GLN	CB-CA-C	5.35	119.67	110.79
4	V	237	GLU	N-CA-C	5.35	117.19	110.24
4	Z	332	PRO	CA-C-N	5.35	124.68	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	332	PRO	C-N-CA	5.35	124.68	118.85
4	3	237	GLU	N-CA-C	5.35	117.19	110.24
4	4	349	LEU	O-C-N	5.35	129.45	122.87
4	W	77	THR	N-CA-CB	-5.34	102.67	110.47
4	W	332	PRO	CA-C-N	5.34	124.68	118.85
4	W	332	PRO	C-N-CA	5.34	124.68	118.85
4	9	91	TYR	N-CA-C	5.34	118.96	112.23
4	Z	91	TYR	N-CA-C	5.34	118.96	112.23
1	D	447	GLN	CB-CA-C	5.34	119.66	110.79
4	7	251	GLY	O-C-N	5.34	129.64	122.70
4	2	91	TYR	N-CA-C	5.34	118.95	112.23
4	2	332	PRO	CA-C-N	5.34	124.67	118.85
4	2	332	PRO	C-N-CA	5.34	124.67	118.85
4	W	116	ARG	N-CA-C	-5.34	105.46	111.28
4	7	91	TYR	N-CA-C	5.33	118.95	112.23
4	Z	79	TRP	CG-CD2-CE3	5.33	139.24	133.90
1	J	447	GLN	CB-CA-C	5.33	119.64	110.79
4	2	77	THR	N-CA-CB	-5.33	102.69	110.47
4	5	349	LEU	O-C-N	5.33	129.43	122.87
4	X	349	LEU	O-C-N	5.33	129.43	122.87
4	5	77	THR	N-CA-CB	-5.33	102.69	110.47
4	Y	349	LEU	O-C-N	5.33	129.42	122.87
4	3	91	TYR	N-CA-C	5.33	118.94	112.23
4	5	91	TYR	N-CA-C	5.33	118.94	112.23
4	8	79	TRP	CG-CD2-CE3	5.33	139.22	133.90
4	V	91	TYR	N-CA-C	5.33	118.94	112.23
1	G	447	GLN	CB-CA-C	5.32	119.63	110.79
4	2	349	LEU	O-C-N	5.32	129.42	122.87
4	Y	257	CYS	N-CA-CB	-5.32	105.33	110.39
1	A	649	VAL	CA-C-N	5.32	131.70	121.54
1	A	649	VAL	C-N-CA	5.32	131.70	121.54
4	1	77	THR	N-CA-CB	-5.32	102.70	110.47
4	7	349	LEU	O-C-N	5.32	129.41	122.87
4	5	332	PRO	CA-C-N	5.32	124.65	118.85
4	5	332	PRO	C-N-CA	5.32	124.65	118.85
4	Y	251	GLY	O-C-N	5.32	129.61	122.70
1	D	649	VAL	CA-C-N	5.32	131.69	121.54
1	D	649	VAL	C-N-CA	5.32	131.69	121.54
4	2	251	GLY	O-C-N	5.31	129.61	122.70
4	Y	91	TYR	N-CA-C	5.31	118.93	112.23
1	M	601	ASP	CA-CB-CG	-5.31	107.29	112.60
4	1	332	PRO	CA-C-N	5.31	124.64	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1	332	PRO	C-N-CA	5.31	124.64	118.85
4	3	349	LEU	O-C-N	5.31	129.41	122.87
4	9	332	PRO	CA-C-N	5.31	124.64	118.85
4	9	332	PRO	C-N-CA	5.31	124.64	118.85
4	4	91	TYR	N-CA-C	5.31	118.92	112.23
2	E	127	ARG	NE-CZ-NH2	5.31	123.98	119.20
2	H	129	THR	N-CA-CB	5.31	119.82	110.37
4	1	91	TYR	N-CA-C	5.31	118.92	112.23
1	D	329	GLU	CA-C-O	5.31	126.04	120.42
2	K	129	THR	O-C-N	-5.31	115.22	121.32
4	4	251	GLY	O-C-N	5.31	129.60	122.70
4	V	251	GLY	O-C-N	5.30	129.59	122.70
4	1	349	LEU	O-C-N	5.30	129.39	122.87
4	W	251	GLY	O-C-N	5.30	129.59	122.70
4	0	77	THR	N-CA-CB	-5.30	102.73	110.47
4	4	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
1	J	592	ILE	N-CA-CB	-5.30	102.49	111.23
4	0	237	GLU	N-CA-C	5.30	117.13	110.24
4	1	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
1	M	720	PHE	CA-CB-CG	-5.30	108.50	113.80
4	X	251	GLY	O-C-N	5.30	129.59	122.70
4	7	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
4	7	257	CYS	N-CA-CB	-5.30	105.36	110.39
4	X	332	PRO	CA-C-N	5.30	124.62	118.85
4	X	332	PRO	C-N-CA	5.30	124.62	118.85
4	Z	237	GLU	N-CA-C	5.30	117.13	110.24
1	G	329	GLU	CA-C-O	5.29	126.03	120.42
1	A	654	ARG	CA-C-N	5.29	127.37	120.28
1	A	654	ARG	C-N-CA	5.29	127.37	120.28
1	A	720	PHE	CA-CB-CG	-5.29	108.51	113.80
1	M	669	PRO	N-CA-CB	5.29	108.03	103.27
4	V	349	LEU	O-C-N	5.29	129.38	122.87
1	P	649	VAL	CA-C-N	5.29	131.65	121.54
1	P	649	VAL	C-N-CA	5.29	131.65	121.54
4	W	349	LEU	O-C-N	5.29	129.38	122.87
4	Y	332	PRO	CA-C-N	5.29	124.62	118.85
4	Y	332	PRO	C-N-CA	5.29	124.62	118.85
1	D	267	THR	OG1-CB-CG2	5.29	119.88	109.30
4	Z	77	THR	N-CA-CB	-5.29	102.75	110.47
1	M	649	VAL	CA-C-N	5.29	131.64	121.54
1	M	649	VAL	C-N-CA	5.29	131.64	121.54
1	J	649	VAL	CA-C-N	5.29	131.64	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	649	VAL	C-N-CA	5.29	131.64	121.54
1	P	654	ARG	CA-C-N	5.29	127.36	120.28
1	P	654	ARG	C-N-CA	5.29	127.36	120.28
4	7	77	THR	N-CA-CB	-5.29	102.75	110.47
4	8	251	GLY	O-C-N	5.29	129.57	122.70
1	M	592	ILE	N-CA-CB	-5.29	102.51	111.23
4	8	332	PRO	CA-C-N	5.29	124.61	118.85
4	8	332	PRO	C-N-CA	5.29	124.61	118.85
4	1	251	GLY	O-C-N	5.28	129.57	122.70
4	3	251	GLY	O-C-N	5.28	129.57	122.70
1	D	720	PHE	CA-CB-CG	-5.28	108.52	113.80
1	P	592	ILE	N-CA-CB	-5.28	102.52	111.23
1	A	592	ILE	N-CA-CB	-5.28	102.52	111.23
4	Z	251	GLY	O-C-N	5.28	129.56	122.70
1	A	447	GLN	CB-CA-C	5.28	119.55	110.79
4	3	332	PRO	CA-C-N	5.28	124.60	118.85
4	3	332	PRO	C-N-CA	5.28	124.60	118.85
4	8	349	LEU	O-C-N	5.28	129.36	122.87
4	5	251	GLY	O-C-N	5.28	129.56	122.70
2	B	127	ARG	NE-CZ-NH2	5.27	123.95	119.20
4	3	79	TRP	CG-CD2-CE3	5.27	139.17	133.90
1	G	592	ILE	N-CA-CB	-5.27	102.53	111.23
4	9	251	GLY	O-C-N	5.27	129.55	122.70
4	9	356	TRP	CE2-CD2-CG	-5.27	100.88	107.20
4	W	91	TYR	N-CA-C	5.27	118.87	112.23
2	N	129	THR	N-CA-CB	5.27	119.74	110.37
3	I	63	ILE	CG1-CB-CG2	-5.26	94.91	110.70
3	O	63	ILE	CG1-CB-CG2	-5.26	94.90	110.70
4	Y	79	TRP	CG-CD2-CE3	5.26	139.16	133.90
1	A	772	LEU	N-CA-C	-5.26	105.01	111.75
1	D	772	LEU	N-CA-C	-5.26	105.02	111.75
3	F	63	ILE	CG1-CB-CG2	-5.26	94.91	110.70
1	M	564	ASN	CA-CB-CG	-5.26	107.34	112.60
3	R	63	ILE	CG1-CB-CG2	-5.26	94.92	110.70
4	0	349	LEU	O-C-N	5.26	129.34	122.87
4	7	62	ARG	CA-CB-CG	5.26	124.62	114.10
1	J	329	GLU	CA-C-O	5.26	126.00	120.42
4	0	79	TRP	CG-CD2-CE3	5.26	139.16	133.90
4	2	356	TRP	CE2-CD2-CG	-5.26	100.89	107.20
4	9	79	TRP	CG-CD2-CE3	5.26	139.16	133.90
3	C	63	ILE	CG1-CB-CG2	-5.26	94.93	110.70
4	4	77	THR	N-CA-CB	-5.26	102.79	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	8	91	TYR	N-CA-C	5.26	118.86	112.23
2	E	129	THR	O-C-N	-5.26	115.28	121.32
1	G	654	ARG	CA-C-N	5.25	127.32	120.28
1	G	654	ARG	C-N-CA	5.25	127.32	120.28
4	0	62	ARG	CA-CB-CG	5.25	124.61	114.10
4	0	251	GLY	O-C-N	5.25	129.53	122.70
4	W	62	ARG	CA-CB-CG	5.25	124.61	114.10
4	V	62	ARG	CA-CB-CG	5.25	124.61	114.10
4	Z	62	ARG	CA-CB-CG	5.25	124.61	114.10
3	L	63	ILE	CG1-CB-CG2	-5.25	94.94	110.70
4	4	332	PRO	CA-C-N	5.25	124.58	118.85
4	4	332	PRO	C-N-CA	5.25	124.58	118.85
1	D	654	ARG	CA-C-N	5.25	127.31	120.28
1	D	654	ARG	C-N-CA	5.25	127.31	120.28
4	0	101	HIS	CA-C-O	-5.25	114.82	119.86
2	H	129	THR	O-C-N	-5.25	115.28	121.32
4	5	79	TRP	CG-CD2-CE3	5.25	139.15	133.90
1	J	564	ASN	CA-CB-CG	-5.25	107.35	112.60
2	Q	129	THR	O-C-N	-5.25	115.29	121.32
4	1	62	ARG	CA-CB-CG	5.25	124.59	114.10
4	2	79	TRP	CG-CD2-CE3	5.25	139.15	133.90
4	4	62	ARG	CA-CB-CG	5.25	124.59	114.10
4	8	62	ARG	CA-CB-CG	5.25	124.59	114.10
4	Y	62	ARG	CA-CB-CG	5.25	124.59	114.10
1	D	564	ASN	CA-CB-CG	-5.25	107.36	112.60
4	9	62	ARG	CA-CB-CG	5.25	124.59	114.10
1	J	267	THR	OG1-CB-CG2	5.24	119.79	109.30
4	X	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	Z	356	TRP	CE2-CD2-CG	-5.24	100.91	107.20
1	J	601	ASP	CA-CB-CG	-5.24	107.36	112.60
2	N	129	THR	O-C-N	-5.24	115.29	121.32
1	P	720	PHE	CA-CB-CG	-5.24	108.56	113.80
1	P	564	ASN	CA-CB-CG	-5.24	107.36	112.60
4	5	62	ARG	CA-CB-CG	5.24	124.58	114.10
2	B	129	THR	O-C-N	-5.24	115.30	121.32
2	B	129	THR	N-CA-CB	5.24	119.69	110.37
4	3	356	TRP	CE2-CD2-CG	-5.24	100.92	107.20
1	D	157	SER	O-C-N	5.24	127.75	122.09
1	G	267	THR	OG1-CB-CG2	5.24	119.77	109.30
1	G	669	PRO	N-CA-CB	5.24	107.98	103.27
4	2	62	ARG	CA-CB-CG	5.24	124.57	114.10
4	9	101	HIS	CA-C-O	-5.24	114.83	119.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	654	ARG	CA-C-N	5.23	127.29	120.28
1	M	654	ARG	C-N-CA	5.23	127.29	120.28
4	3	62	ARG	CA-CB-CG	5.23	124.56	114.10
1	G	663	ASN	N-CA-C	-5.23	105.75	111.82
1	P	669	PRO	N-CA-CB	5.23	107.98	103.27
4	5	22	ALA	N-CA-C	-5.23	102.31	110.10
4	3	252	ASN	CB-CG-ND2	5.23	124.24	116.40
1	J	654	ARG	CA-C-N	5.23	127.28	120.28
1	J	654	ARG	C-N-CA	5.23	127.28	120.28
1	A	401	LEU	CD1-CG-CD2	-5.22	99.31	110.80
4	1	252	ASN	CB-CG-ND2	5.22	124.24	116.40
1	P	267	THR	OG1-CB-CG2	5.22	119.74	109.30
4	5	252	ASN	CB-CG-ND2	5.22	124.23	116.40
4	8	356	TRP	CE2-CD2-CG	-5.22	100.93	107.20
4	2	101	HIS	CA-C-O	-5.22	114.85	119.86
1	A	267	THR	OG1-CB-CG2	5.22	119.74	109.30
1	M	663	ASN	N-CA-C	-5.22	105.77	111.82
1	J	669	PRO	N-CA-CB	5.22	107.97	103.27
4	X	79	TRP	CG-CD2-CE3	5.22	139.12	133.90
1	P	329	GLU	CA-C-O	5.22	125.95	120.42
2	E	129	THR	N-CA-CB	5.21	119.65	110.37
4	8	252	ASN	CB-CG-ND2	5.21	124.22	116.40
4	V	79	TRP	CG-CD2-CE3	5.21	139.12	133.90
1	M	267	THR	OG1-CB-CG2	5.21	119.73	109.30
4	0	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
4	3	22	ALA	N-CA-C	-5.21	102.33	110.10
4	W	252	ASN	CB-CG-ND2	5.21	124.22	116.40
1	D	401	LEU	CD1-CG-CD2	-5.21	99.34	110.80
1	P	401	LEU	CD1-CG-CD2	-5.21	99.34	110.80
1	P	772	LEU	N-CA-C	-5.21	105.08	111.75
1	A	601	ASP	CA-CB-CG	-5.21	107.39	112.60
4	1	101	HIS	CA-C-O	-5.21	114.86	119.86
4	7	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
4	Z	252	ASN	CB-CG-ND2	5.21	124.21	116.40
1	D	601	ASP	CA-CB-CG	-5.20	107.40	112.60
4	7	274	ILE	N-CA-CB	-5.20	102.64	111.23
1	D	663	ASN	N-CA-C	-5.20	105.79	111.82
1	D	669	PRO	N-CA-CB	5.20	107.95	103.27
4	3	248	ILE	N-CA-CB	-5.20	103.38	110.56
4	7	252	ASN	CB-CG-ND2	5.20	124.20	116.40
4	V	356	TRP	CE2-CD2-CG	-5.20	100.96	107.20
4	Y	101	HIS	CA-C-O	-5.20	114.87	119.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	663	ASN	N-CA-C	-5.20	105.79	111.82
4	4	22	ALA	N-CA-C	-5.20	102.35	110.10
4	4	71	ILE	N-CA-CB	-5.20	105.86	112.15
1	G	157	SER	O-C-N	5.20	127.70	122.09
1	A	322	VAL	O-C-N	5.20	125.68	120.59
1	G	564	ASN	CA-CB-CG	-5.20	107.40	112.60
1	M	772	LEU	N-CA-C	-5.20	105.10	111.75
4	0	22	ALA	N-CA-C	-5.20	102.36	110.10
4	V	252	ASN	CB-CG-ND2	5.20	124.19	116.40
4	V	274	ILE	N-CA-CB	-5.20	102.66	111.23
1	G	401	LEU	CD1-CG-CD2	-5.19	99.37	110.80
4	9	274	ILE	N-CA-CB	-5.19	102.66	111.23
1	D	592	ILE	N-CA-CB	-5.19	102.66	111.23
1	P	601	ASP	CA-CB-CG	-5.19	107.41	112.60
4	4	101	HIS	CA-C-O	-5.19	114.88	119.86
4	W	274	ILE	N-CA-CB	-5.19	102.67	111.23
4	X	274	ILE	N-CA-CB	-5.19	102.67	111.23
4	Y	252	ASN	CB-CG-ND2	5.19	124.19	116.40
4	Z	274	ILE	N-CA-CB	-5.19	102.67	111.23
4	7	101	HIS	CA-C-O	-5.19	114.88	119.86
1	A	669	PRO	N-CA-CB	5.19	107.94	103.27
1	G	720	PHE	CA-CB-CG	-5.19	108.61	113.80
4	1	356	TRP	CE2-CD2-CG	-5.19	100.97	107.20
4	9	22	ALA	N-CA-C	-5.19	102.37	110.10
1	M	401	LEU	CD1-CG-CD2	-5.19	99.39	110.80
1	J	401	LEU	CD1-CG-CD2	-5.18	99.40	110.80
1	J	772	LEU	N-CA-C	-5.18	105.11	111.75
2	K	129	THR	N-CA-CB	5.18	119.60	110.37
4	V	22	ALA	N-CA-C	-5.18	102.38	110.10
4	X	22	ALA	N-CA-C	-5.18	102.38	110.10
4	X	356	TRP	CE2-CD2-CG	-5.18	100.98	107.20
4	Y	22	ALA	N-CA-C	-5.18	102.37	110.10
1	M	329	GLU	CA-C-O	5.18	125.91	120.42
4	2	22	ALA	N-CA-C	-5.18	102.38	110.10
4	5	248	ILE	N-CA-CB	-5.18	103.41	110.56
4	X	252	ASN	CB-CG-ND2	5.18	124.17	116.40
4	Y	356	TRP	CE2-CD2-CG	-5.18	100.98	107.20
4	Z	22	ALA	N-CA-C	-5.18	102.38	110.10
4	3	71	ILE	N-CA-CB	-5.18	105.88	112.15
4	3	274	ILE	N-CA-CB	-5.18	102.68	111.23
4	9	50	LYS	CB-CG-CD	-5.18	99.39	111.30
4	9	252	ASN	CB-CG-ND2	5.18	124.17	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Y	40	HIS	CB-CG-CD2	-5.18	124.47	131.20
4	5	274	ILE	N-CA-CB	-5.18	102.69	111.23
4	Y	274	ILE	N-CA-CB	-5.18	102.69	111.23
1	J	623	PHE	CB-CG-CD1	5.18	129.50	120.70
1	G	38	VAL	N-CA-CB	-5.17	102.69	111.23
4	0	34	ILE	CA-CB-CG1	5.17	119.19	110.40
4	2	274	ILE	N-CA-CB	-5.17	102.69	111.23
4	4	274	ILE	N-CA-CB	-5.17	102.69	111.23
4	5	71	ILE	N-CA-CB	-5.17	105.89	112.15
4	8	101	HIS	CA-C-O	-5.17	114.89	119.86
1	P	663	ASN	N-CA-C	-5.17	105.82	111.82
4	5	50	LYS	CB-CG-CD	-5.17	99.40	111.30
1	P	157	SER	O-C-N	5.17	127.67	122.09
4	0	50	LYS	CB-CG-CD	-5.17	99.41	111.30
4	8	22	ALA	N-CA-C	-5.17	102.40	110.10
4	Y	50	LYS	CB-CG-CD	-5.17	99.41	111.30
4	8	274	ILE	N-CA-CB	-5.17	102.70	111.23
4	9	40	HIS	CB-CG-CD2	-5.17	124.48	131.20
4	W	101	HIS	CA-C-O	-5.17	114.90	119.86
1	M	38	VAL	N-CA-CB	-5.17	102.70	111.23
4	2	252	ASN	CB-CG-ND2	5.17	124.15	116.40
4	5	34	ILE	CA-CB-CG1	5.17	119.19	110.40
4	7	22	ALA	N-CA-C	-5.17	102.40	110.10
4	X	360	GLN	CB-CG-CD	5.17	121.39	112.60
3	C	64	THR	O-C-N	5.17	129.57	123.27
1	J	720	PHE	CA-CB-CG	-5.17	108.63	113.80
4	2	40	HIS	CB-CG-CD2	-5.17	124.48	131.20
4	9	34	ILE	CA-CB-CG1	5.17	119.18	110.40
4	X	50	LYS	CB-CG-CD	-5.17	99.42	111.30
4	4	34	ILE	CA-CB-CG1	5.17	119.18	110.40
4	3	50	LYS	CB-CG-CD	-5.16	99.42	111.30
4	4	252	ASN	CB-CG-ND2	5.16	124.15	116.40
4	5	356	TRP	CE2-CD2-CG	-5.16	101.00	107.20
4	W	22	ALA	N-CA-C	-5.16	102.41	110.10
2	Q	129	THR	N-CA-CB	5.16	119.56	110.37
4	0	274	ILE	N-CA-CB	-5.16	102.71	111.23
4	2	50	LYS	CB-CG-CD	-5.16	99.43	111.30
4	7	50	LYS	CB-CG-CD	-5.16	99.43	111.30
1	J	663	ASN	N-CA-C	-5.16	105.83	111.82
4	0	252	ASN	CB-CG-ND2	5.16	124.14	116.40
4	1	274	ILE	N-CA-CB	-5.16	102.72	111.23
4	9	360	GLN	CB-CG-CD	5.16	121.37	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	V	34	ILE	CA-CB-CG1	5.16	119.17	110.40
4	Y	34	ILE	CA-CB-CG1	5.16	119.17	110.40
1	A	38	VAL	N-CA-CB	-5.16	102.72	111.23
1	M	157	SER	O-C-N	5.16	127.66	122.09
4	3	233	SER	O-C-N	5.16	129.45	122.59
4	5	101	HIS	CA-C-O	-5.16	114.91	119.86
1	P	38	VAL	N-CA-CB	-5.16	102.72	111.23
4	3	101	HIS	CA-C-O	-5.16	114.91	119.86
1	P	576	GLU	N-CA-CB	5.16	119.01	110.97
4	1	50	LYS	CB-CG-CD	-5.16	99.44	111.30
4	2	71	ILE	N-CA-CB	-5.16	105.91	112.15
4	8	34	ILE	CA-CB-CG1	5.16	119.16	110.40
4	X	233	SER	O-C-N	5.16	129.45	122.59
1	D	38	VAL	N-CA-CB	-5.15	102.72	111.23
1	G	652	LEU	CB-CA-C	-5.15	102.36	110.86
1	J	38	VAL	N-CA-CB	-5.15	102.73	111.23
1	J	652	LEU	CB-CA-C	-5.15	102.36	110.86
2	K	127	ARG	NE-CZ-NH2	5.15	123.84	119.20
4	1	248	ILE	N-CA-CB	-5.15	103.45	110.56
4	8	248	ILE	N-CA-CB	-5.15	103.45	110.56
4	V	50	LYS	CB-CG-CD	-5.15	99.45	111.30
4	Z	71	ILE	N-CA-CB	-5.15	105.92	112.15
4	1	22	ALA	N-CA-C	-5.15	102.43	110.10
4	3	40	HIS	CB-CG-CD2	-5.15	124.50	131.20
4	W	40	HIS	CB-CG-CD2	-5.15	124.51	131.20
4	W	356	TRP	CE2-CD2-CG	-5.15	101.02	107.20
4	Z	101	HIS	CA-C-O	-5.15	114.92	119.86
4	Z	248	ILE	N-CA-CB	-5.15	103.45	110.56
4	4	40	HIS	CB-CG-CD2	-5.15	124.51	131.20
4	4	50	LYS	CB-CG-CD	-5.15	99.46	111.30
4	4	356	TRP	CE2-CD2-CG	-5.15	101.03	107.20
4	9	248	ILE	N-CA-CB	-5.15	103.46	110.56
4	0	248	ILE	N-CA-CB	-5.14	103.46	110.56
4	Z	50	LYS	CB-CG-CD	-5.14	99.47	111.30
4	4	233	SER	O-C-N	5.14	129.43	122.59
4	X	71	ILE	N-CA-CB	-5.14	105.93	112.15
4	4	360	GLN	CB-CG-CD	5.14	121.34	112.60
1	M	623	PHE	CB-CG-CD1	5.14	129.44	120.70
1	P	623	PHE	CB-CG-CD1	5.14	129.44	120.70
4	W	50	LYS	CB-CG-CD	-5.14	99.48	111.30
4	Y	248	ILE	N-CA-CB	-5.14	103.47	110.56
4	Z	34	ILE	CA-CB-CG1	5.14	119.14	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	623	PHE	CB-CG-CD1	5.14	129.43	120.70
4	8	50	LYS	CB-CG-CD	-5.14	99.48	111.30
4	0	360	GLN	CB-CG-CD	5.14	121.33	112.60
4	2	360	GLN	CB-CG-CD	5.14	121.33	112.60
4	8	40	HIS	CB-CG-CD2	-5.14	124.52	131.20
4	V	101	HIS	CA-C-O	-5.14	114.93	119.86
1	A	623	PHE	CB-CG-CD1	5.13	129.43	120.70
4	0	71	ILE	N-CA-CB	-5.13	105.94	112.15
4	1	71	ILE	N-CA-CB	-5.13	105.94	112.15
4	8	360	GLN	CB-CG-CD	5.13	121.33	112.60
4	V	40	HIS	CB-CG-CD2	-5.13	124.53	131.20
4	7	40	HIS	CB-CG-CD2	-5.13	124.53	131.20
4	1	40	HIS	CB-CG-CD2	-5.13	124.53	131.20
4	8	71	ILE	N-CA-CB	-5.13	105.94	112.15
4	7	360	GLN	CB-CG-CD	5.13	121.32	112.60
1	J	576	GLU	N-CA-CB	5.13	118.97	110.97
4	V	233	SER	O-C-N	5.13	129.41	122.59
4	W	34	ILE	CA-CB-CG1	5.13	119.12	110.40
1	M	652	LEU	CB-CA-C	-5.13	102.40	110.86
2	N	127	ARG	NE-CZ-NH2	5.13	123.81	119.20
4	9	71	ILE	N-CA-CB	-5.13	105.95	112.15
2	H	127	ARG	NE-CZ-NH2	5.12	123.81	119.20
4	Z	40	HIS	CB-CG-CD2	-5.12	124.54	131.20
1	A	576	GLU	N-CA-CB	5.12	118.96	110.97
1	G	601	ASP	CA-CB-CG	-5.12	107.48	112.60
1	J	278	GLN	CA-C-O	5.12	127.83	120.51
1	M	576	GLU	N-CA-CB	5.12	118.96	110.97
4	V	71	ILE	N-CA-CB	-5.12	105.95	112.15
4	0	40	HIS	CB-CG-CD2	-5.12	124.55	131.20
4	2	248	ILE	N-CA-CB	-5.12	103.50	110.56
4	V	227	MET	N-CA-C	-5.12	105.61	111.14
4	Z	227	MET	N-CA-C	-5.12	105.61	111.14
1	A	564	ASN	CA-CB-CG	-5.12	107.48	112.60
4	3	34	ILE	CA-CB-CG1	5.12	119.10	110.40
4	V	360	GLN	CB-CG-CD	5.12	121.30	112.60
1	A	221	GLN	O-C-N	5.12	127.41	122.09
1	D	425	SER	N-CA-CB	5.12	117.73	110.16
4	2	34	ILE	CA-CB-CG1	5.12	119.10	110.40
4	7	233	SER	O-C-N	5.12	129.39	122.59
4	W	71	ILE	N-CA-CB	-5.12	105.96	112.15
4	W	360	GLN	CB-CG-CD	5.12	121.30	112.60
4	Y	71	ILE	N-CA-CB	-5.12	105.96	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	7	34	ILE	CA-CB-CG1	5.11	119.09	110.40
4	W	227	MET	N-CA-C	-5.11	105.62	111.14
4	X	217	CYS	CA-CB-SG	-5.11	102.64	114.40
4	Y	233	SER	O-C-N	5.11	129.39	122.59
1	D	254	PHE	CA-CB-CG	-5.11	108.69	113.80
4	1	360	GLN	CB-CG-CD	5.11	121.29	112.60
4	9	233	SER	O-C-N	5.11	129.39	122.59
4	Y	360	GLN	CB-CG-CD	5.11	121.29	112.60
4	Z	149	THR	CA-CB-OG1	-5.11	101.93	109.60
1	D	76	GLN	CA-C-O	5.11	125.21	119.18
4	1	34	ILE	CA-CB-CG1	5.11	119.08	110.40
1	G	172	ASN	N-CA-CB	5.11	118.21	110.45
4	2	233	SER	O-C-N	5.11	129.38	122.59
1	J	157	SER	O-C-N	5.11	127.61	122.09
1	P	652	LEU	CB-CA-C	-5.11	102.44	110.86
4	5	360	GLN	CB-CG-CD	5.11	121.28	112.60
4	V	217	CYS	CA-CB-SG	-5.11	102.66	114.40
4	Z	217	CYS	CA-CB-SG	-5.11	102.66	114.40
1	J	172	ASN	N-CA-CB	5.10	118.21	110.45
4	X	34	ILE	CA-CB-CG1	5.10	119.07	110.40
4	X	248	ILE	N-CA-CB	-5.10	103.52	110.56
2	Q	127	ARG	NE-CZ-NH2	5.10	123.79	119.20
4	1	217	CYS	CA-CB-SG	-5.10	102.67	114.40
4	W	217	CYS	CA-CB-SG	-5.10	102.67	114.40
4	Y	217	CYS	CA-CB-SG	-5.10	102.67	114.40
1	P	172	ASN	N-CA-CB	5.10	118.20	110.45
4	5	40	HIS	CB-CG-CD2	-5.10	124.57	131.20
4	8	217	CYS	CA-CB-SG	-5.10	102.67	114.40
4	9	266	PHE	CA-CB-CG	5.10	118.90	113.80
4	W	149	THR	CA-CB-OG1	-5.10	101.95	109.60
1	G	332	MET	CB-CA-C	-5.10	102.19	110.85
1	P	424	ASN	CA-CB-CG	5.10	117.70	112.60
4	2	217	CYS	CA-CB-SG	-5.10	102.68	114.40
4	4	248	ILE	N-CA-CB	-5.10	103.53	110.56
1	J	322	VAL	O-C-N	5.09	125.58	120.59
4	W	248	ILE	N-CA-CB	-5.09	103.53	110.56
4	W	266	PHE	CA-CB-CG	5.09	118.89	113.80
4	X	149	THR	CA-CB-OG1	-5.09	101.96	109.60
1	P	278	GLN	CA-C-O	5.09	127.79	120.51
4	9	217	CYS	CA-CB-SG	-5.09	102.69	114.40
1	A	652	LEU	CB-CA-C	-5.09	102.46	110.86
1	D	595	TRP	O-C-N	5.09	127.38	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	694	GLN	CA-C-O	5.09	126.13	120.63
4	3	360	GLN	CB-CG-CD	5.09	121.26	112.60
4	7	71	ILE	N-CA-CB	-5.09	105.99	112.15
4	8	233	SER	O-C-N	5.09	129.36	122.59
1	G	322	VAL	O-C-N	5.09	125.58	120.59
1	M	424	ASN	CA-CB-CG	5.09	117.69	112.60
4	4	227	MET	N-CA-C	-5.09	105.64	111.14
4	7	217	CYS	CA-CB-SG	-5.09	102.69	114.40
4	0	217	CYS	CA-CB-SG	-5.09	102.70	114.40
4	3	217	CYS	CA-CB-SG	-5.09	102.70	114.40
1	A	76	GLN	CA-C-O	5.08	125.18	119.18
1	D	332	MET	CG-SD-CE	-5.08	89.71	100.90
4	0	233	SER	O-C-N	5.08	129.35	122.59
4	8	371	HIS	CB-CG-CD2	-5.08	124.59	131.20
1	A	157	SER	O-C-N	5.08	127.58	122.09
4	4	217	CYS	CA-CB-SG	-5.08	102.71	114.40
4	5	217	CYS	CA-CB-SG	-5.08	102.71	114.40
1	A	172	ASN	N-CA-CB	5.08	118.17	110.45
1	G	254	PHE	CA-CB-CG	-5.08	108.72	113.80
1	J	332	MET	CG-SD-CE	-5.08	89.72	100.90
1	M	694	GLN	CA-C-O	5.08	126.12	120.63
4	4	149	THR	CA-CB-OG1	-5.08	101.98	109.60
4	Z	360	GLN	CB-CG-CD	5.08	121.24	112.60
4	0	149	THR	CA-CB-OG1	-5.08	101.98	109.60
1	D	576	GLU	N-CA-CB	5.08	118.89	110.97
1	D	652	LEU	CB-CA-C	-5.08	102.48	110.86
1	G	576	GLU	N-CA-CB	5.08	118.89	110.97
1	J	424	ASN	CA-CB-CG	5.08	117.68	112.60
4	2	227	MET	N-CA-C	-5.08	105.66	111.14
1	J	694	GLN	CA-C-O	5.08	126.11	120.63
4	7	371	HIS	CB-CG-CD2	-5.08	124.60	131.20
1	G	332	MET	CG-SD-CE	-5.07	89.74	100.90
1	M	332	MET	CG-SD-CE	-5.07	89.74	100.90
4	0	227	MET	N-CA-C	-5.07	105.66	111.14
4	7	149	THR	CA-CB-OG1	-5.07	101.99	109.60
4	V	248	ILE	N-CA-CB	-5.07	103.56	110.56
1	A	332	MET	CG-SD-CE	-5.07	89.75	100.90
4	2	371	HIS	CB-CG-CD2	-5.07	124.61	131.20
4	3	266	PHE	CA-CB-CG	5.07	118.87	113.80
4	W	371	HIS	CB-CG-CD2	-5.07	124.61	131.20
4	Z	266	PHE	CA-CB-CG	5.07	118.87	113.80
4	W	233	SER	O-C-N	5.07	129.33	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Z	233	SER	O-C-N	5.07	129.33	122.59
4	0	359	LYS	CB-CG-CD	5.07	122.96	111.30
4	1	149	THR	CA-CB-OG1	-5.07	102.00	109.60
4	X	227	MET	N-CA-C	-5.07	105.67	111.14
1	A	425	SER	N-CA-CB	5.07	117.66	110.16
1	M	278	GLN	CA-C-O	5.07	127.75	120.51
1	M	425	SER	N-CA-CB	5.07	117.66	110.16
1	P	332	MET	CG-SD-CE	-5.07	89.75	100.90
4	7	248	ILE	N-CA-CB	-5.07	103.57	110.56
4	X	266	PHE	CA-CB-CG	5.07	118.86	113.80
1	M	172	ASN	N-CA-CB	5.06	118.15	110.45
4	5	233	SER	O-C-N	5.06	129.32	122.59
4	7	227	MET	N-CA-C	-5.06	105.67	111.14
4	5	371	HIS	CB-CG-CD2	-5.06	124.62	131.20
4	8	142	LEU	CA-C-O	5.06	126.14	120.82
4	8	149	THR	CA-CB-OG1	-5.06	102.01	109.60
4	V	149	THR	CA-CB-OG1	-5.06	102.00	109.60
4	Y	149	THR	CA-CB-OG1	-5.06	102.01	109.60
1	J	425	SER	N-CA-CB	5.06	117.65	110.16
1	M	322	VAL	O-C-N	5.06	125.55	120.59
3	L	64	THR	O-C-N	5.06	129.44	123.27
4	3	359	LYS	CB-CG-CD	5.06	122.94	111.30
4	5	359	LYS	CB-CG-CD	5.06	122.94	111.30
4	Z	359	LYS	CB-CG-CD	5.06	122.93	111.30
1	A	359	MET	O-C-N	5.05	127.28	122.07
1	J	332	MET	CB-CA-C	-5.05	102.26	110.85
1	P	322	VAL	O-C-N	5.05	125.54	120.59
1	A	161	ASN	CA-CB-CG	-5.05	107.55	112.60
1	D	278	GLN	CA-C-O	5.05	127.73	120.51
4	2	266	PHE	CA-CB-CG	5.05	118.85	113.80
4	X	40	HIS	CB-CG-CD2	-5.05	124.64	131.20
4	3	149	THR	CA-CB-OG1	-5.05	102.03	109.60
4	W	359	LYS	CB-CG-CD	5.05	122.91	111.30
1	A	165	PHE	CA-CB-CG	-5.05	108.75	113.80
4	9	227	MET	N-CA-C	-5.05	105.69	111.14
4	Z	356	TRP	CG-CD2-CE3	5.05	138.95	133.90
1	M	332	MET	CB-CA-C	-5.04	102.27	110.85
4	X	359	LYS	CB-CG-CD	5.04	122.90	111.30
1	P	332	MET	CB-CA-C	-5.04	102.27	110.85
1	P	425	SER	N-CA-CB	5.04	117.62	110.16
4	8	227	MET	N-CA-C	-5.04	105.69	111.14
4	9	149	THR	CA-CB-OG1	-5.04	102.04	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	Y	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
4	1	233	SER	O-C-N	5.04	129.29	122.59
4	3	227	MET	N-CA-C	-5.04	105.70	111.14
1	A	621	LEU	N-CA-C	5.04	116.46	110.97
1	D	434	TYR	CB-CA-C	-5.04	102.75	110.81
1	G	424	ASN	CA-CB-CG	5.04	117.64	112.60
1	G	513	ILE	N-CA-CB	-5.04	101.67	110.49
4	0	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	A	694	GLN	CA-C-O	5.04	126.07	120.63
1	G	595	TRP	O-C-N	5.04	127.33	122.09
1	M	254	PHE	CA-CB-CG	-5.04	108.77	113.80
4	0	266	PHE	CA-CB-CG	5.04	118.83	113.80
4	2	356	TRP	CG-CD2-CE3	5.04	138.94	133.90
4	5	88	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	D	165	PHE	CA-CB-CG	-5.03	108.77	113.80
4	1	88	HIS	CB-CG-CD2	-5.03	124.66	131.20
4	4	266	PHE	CA-CB-CG	5.03	118.83	113.80
4	4	371	HIS	CB-CG-CD2	-5.03	124.66	131.20
4	V	359	LYS	CB-CG-CD	5.03	122.88	111.30
4	Y	266	PHE	CA-CB-CG	5.03	118.83	113.80
4	1	227	MET	N-CA-C	-5.03	105.71	111.14
4	2	359	LYS	CB-CG-CD	5.03	122.87	111.30
1	D	332	MET	CB-CA-C	-5.03	102.30	110.85
1	G	76	GLN	CA-C-O	5.03	125.11	119.18
1	G	221	GLN	O-C-N	5.03	127.32	122.09
1	A	424	ASN	CA-CB-CG	5.03	117.63	112.60
4	1	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	8	266	PHE	CA-CB-CG	5.03	118.83	113.80
4	Y	359	LYS	CB-CG-CD	5.03	122.86	111.30
1	D	172	ASN	N-CA-CB	5.03	118.09	110.45
4	0	349	LEU	CA-C-O	5.03	126.72	121.19
4	4	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	8	359	LYS	CB-CG-CD	5.03	122.86	111.30
1	D	623	PHE	CB-CG-CD1	5.02	129.24	120.70
1	P	192	VAL	CA-CB-CG1	-5.02	101.86	110.40
4	2	149	THR	CA-CB-OG1	-5.02	102.06	109.60
4	5	142	LEU	CA-C-O	5.02	126.09	120.82
4	5	149	THR	CA-CB-OG1	-5.02	102.07	109.60
1	D	694	GLN	CA-C-O	5.02	126.05	120.63
4	9	88	HIS	CB-CG-CD2	-5.02	124.67	131.20
1	P	76	GLN	CA-C-O	5.02	125.10	119.18
4	0	88	HIS	CB-CG-CD2	-5.02	124.67	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1	266	PHE	CA-CB-CG	5.02	118.82	113.80
4	9	356	TRP	CG-CD2-CE3	5.02	138.92	133.90
4	V	266	PHE	CA-CB-CG	5.02	118.82	113.80
4	2	43	VAL	N-CA-C	5.02	117.23	108.90
1	J	621	LEU	N-CA-C	5.01	116.44	110.97
4	W	88	HIS	CB-CG-CD2	-5.01	124.68	131.20
4	Y	227	MET	N-CA-C	-5.01	105.72	111.14
4	4	88	HIS	CB-CG-CD2	-5.01	124.68	131.20
4	8	43	VAL	N-CA-C	5.01	117.22	108.90
4	V	371	HIS	CB-CG-CD2	-5.01	124.68	131.20
4	Z	371	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	G	762	HIS	N-CA-C	5.01	121.48	110.80
4	V	86	TRP	CE2-CD2-CG	-5.01	101.19	107.20
4	Z	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	G	621	LEU	N-CA-C	5.01	116.43	110.97
4	7	266	PHE	CA-CB-CG	5.01	118.81	113.80
1	G	829	TRP	N-CA-C	5.01	116.83	109.42
1	J	359	MET	O-C-N	5.01	127.23	122.07
1	M	621	LEU	N-CA-C	5.01	116.43	110.97
1	G	161	ASN	CA-CB-CG	-5.01	107.59	112.60
1	G	425	SER	N-CA-CB	5.01	117.57	110.16
1	G	434	TYR	CB-CA-C	-5.01	102.80	110.81
1	G	511	GLU	N-CA-CB	5.01	118.75	110.69
4	4	281	SER	N-CA-C	-5.01	105.71	111.07
4	5	227	MET	N-CA-C	-5.01	105.73	111.14
4	7	359	LYS	CB-CG-CD	5.01	122.81	111.30
1	M	675	ILE	N-CA-C	5.00	116.56	108.85
4	1	371	HIS	CB-CG-CD2	-5.00	124.69	131.20
4	Z	43	VAL	N-CA-C	5.00	117.21	108.90
1	J	434	TYR	CB-CA-C	-5.00	102.80	110.81
4	5	266	PHE	CA-CB-CG	5.00	118.80	113.80
4	Y	365	ALA	N-CA-C	5.00	120.22	113.72
1	D	513	ILE	N-CA-CB	-5.00	101.74	110.49
4	3	371	HIS	CB-CG-CD2	-5.00	124.70	131.20
4	9	359	LYS	CB-CG-CD	5.00	122.81	111.30
4	9	365	ALA	N-CA-C	5.00	120.22	113.72
4	Y	88	HIS	CB-CG-CD2	-5.00	124.70	131.20

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	648	THR	CB

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Mol	Chain	Res	Type	Atom
1	D	648	THR	CB
1	G	648	THR	CB
1	J	648	THR	CB
1	M	648	THR	CB
1	P	648	THR	CB

All (74) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	0	62	ARG	Sidechain
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	7	62	ARG	Sidechain
4	8	62	ARG	Sidechain
4	9	62	ARG	Sidechain
1	A	623	PHE	Sidechain
1	A	637	LYS	Mainchain
1	A	649	VAL	Mainchain
1	A	98	HIS	Mainchain
2	B	150	TYR	Sidechain
2	B	155	TYR	Mainchain
2	B	22	THR	Mainchain
3	C	75	ALA	Mainchain
3	C	85	GLU	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

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Mol	Chain	Res	Type	Group
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	Peptide,Mainchain
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	709	LYS	Peptide,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
1	P	637	LYS	Mainchain
1	P	649	VAL	Mainchain
1	P	709	LYS	Peptide,Mainchain
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	6761	1573	0
1	D	6797	0	6766	1539	0
1	G	6797	0	6772	1573	0
1	J	6797	0	6768	1479	0
1	M	6797	0	6774	1543	0
1	P	6797	0	6774	1525	0
2	B	1127	0	1085	231	0
2	E	1127	0	1085	252	0
2	H	1127	0	1087	277	0
2	K	1127	0	1088	283	0
2	N	1127	0	1088	246	0
2	Q	1127	0	1088	263	0
3	C	1123	0	1083	201	0
3	F	1123	0	1084	196	0
3	I	1123	0	1082	211	0
3	L	1123	0	1083	171	0
3	O	1123	0	1084	155	0
3	R	1123	0	1084	238	0
4	0	2906	0	2855	409	0
4	1	2906	0	2858	259	0
4	2	2906	0	2864	177	0
4	3	2906	0	2863	180	0
4	4	2906	0	2865	98	0
4	5	2906	0	2865	99	0
4	7	2906	0	2866	85	0
4	8	2906	0	2857	322	0
4	9	2906	0	2855	349	0
4	V	2906	0	2851	398	0
4	W	2906	0	2851	388	0
4	X	2906	0	2862	212	0
4	Y	2906	0	2863	173	0
4	Z	2906	0	2853	412	0
All	All	94966	0	93664	11693	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 62.

All (11693) 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:D:797:PHE:CE2	3:F:126:LEU:HD22	1.31	1.66
1:J:797:PHE:CE1	3:L:146:ILE:HG23	1.26	1.66
1:G:797:PHE:CZ	3:I:146:ILE:HD12	1.28	1.66
1:A:505:MLY:HB3	1:A:762:HIS:CD2	1.30	1.65
1:D:508:ILE:HD11	1:D:766:PHE:CE1	1.24	1.65
1:A:757:GLN:CG	1:A:771:LEU:HD11	1.25	1.65
2:N:144:VAL:HG13	2:N:153:ILE:CG1	1.17	1.64
2:N:144:VAL:HG13	2:N:153:ILE:CD1	1.22	1.64
2:E:144:VAL:HG13	2:E:153:ILE:CD1	1.22	1.62
1:G:754:ASP:HA	1:G:779:ARG:CD	1.19	1.62
2:Q:144:VAL:HG13	2:Q:153:ILE:CD1	1.22	1.62
4:X:324:THR:CG2	4:Z:247:VAL:H	1.09	1.62
2:N:111:SER:HB2	2:N:148:VAL:C	1.23	1.61
4:1:287:ILE:HG23	4:3:202:THR:CB	1.26	1.61
1:M:817:GLN:CG	2:N:127:ARG:HD2	1.16	1.61
2:E:144:VAL:HG13	2:E:153:ILE:CG1	1.17	1.61
1:P:725:ARG:HE	1:P:733:PRO:CB	1.09	1.61
1:A:206:LYS:CD	1:A:217:THR:HG23	1.28	1.61
2:H:144:VAL:HG13	2:H:153:ILE:CD1	1.22	1.61
1:J:725:ARG:HE	1:J:733:PRO:CB	1.09	1.61
2:K:144:VAL:HG13	2:K:153:ILE:CG1	1.17	1.60
1:A:757:GLN:HB3	1:A:771:LEU:CD1	1.26	1.60
1:G:797:PHE:CE2	3:I:126:LEU:HD22	1.30	1.60
1:D:508:ILE:CD1	1:D:766:PHE:CZ	1.75	1.60
2:B:144:VAL:HG13	2:B:153:ILE:CD1	1.22	1.59
1:A:725:ARG:HE	1:A:733:PRO:CB	1.09	1.59
1:P:538:GLU:CA	4:0:349:LEU:CD1	1.79	1.59
1:G:206:LYS:CD	1:G:217:THR:HG23	1.28	1.59
1:G:768:MLY:CH2	1:G:772:LEU:HD13	1.15	1.59
1:J:206:LYS:CD	1:J:217:THR:HG23	1.28	1.59
1:J:84:MLY:CH2	1:J:720:PHE:HA	1.31	1.59
1:M:505:MLY:HD2	1:M:762:HIS:CE1	1.33	1.59
1:M:538:GLU:CA	4:Z:349:LEU:CD1	1.79	1.58
1:G:768:MLY:HH23	1:G:772:LEU:CD1	1.12	1.58
1:J:538:GLU:CA	4:W:349:LEU:CD1	1.79	1.58
1:J:797:PHE:CD1	3:L:146:ILE:CG2	1.74	1.57
2:K:144:VAL:HG13	2:K:153:ILE:CD1	1.22	1.57
1:P:795:ARG:HH21	3:R:116:GLU:CB	0.97	1.57
1:P:817:GLN:CG	2:Q:127:ARG:HD2	1.23	1.57
1:D:538:GLU:CA	4:9:349:LEU:CD1	1.78	1.57
1:G:538:GLU:CA	4:V:349:LEU:CD1	1.79	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:798:LEU:CD1	3:L:126:LEU:HD11	1.21	1.57
2:B:144:VAL:HG13	2:B:153:ILE:CG1	1.17	1.56
1:A:831:TRP:CZ3	2:B:50:THR:HG21	1.36	1.56
1:D:797:PHE:CD1	3:F:146:ILE:HG23	1.36	1.56
1:G:818:TYR:CZ	2:H:127:ARG:NH2	1.70	1.56
4:1:287:ILE:CG2	4:3:202:THR:HB	1.23	1.56
1:D:736:GLN:HA	1:D:743:ALA:CB	1.35	1.56
1:G:725:ARG:HE	1:G:733:PRO:CB	1.09	1.56
1:J:792:ALA:HB2	3:L:42:THR:CG2	1.17	1.56
1:A:508:ILE:CD1	1:A:759:ALA:CB	1.77	1.56
1:A:768:MLY:CB	1:A:771:LEU:HB2	1.34	1.56
1:D:206:LYS:CD	1:D:217:THR:HG23	1.28	1.56
1:M:545:ALA:HA	4:1:45:VAL:CG1	1.32	1.56
1:A:757:GLN:CB	1:A:771:LEU:HD11	1.10	1.56
1:J:530:MET:HG2	4:W:354:GLN:CB	1.36	1.56
1:A:797:PHE:CZ	3:C:146:ILE:HD13	1.41	1.55
2:H:144:VAL:HG13	2:H:153:ILE:CG1	1.17	1.55
1:M:206:LYS:CD	1:M:217:THR:HG23	1.28	1.55
1:A:834:LEU:CD2	2:B:54:MET:HE3	1.09	1.55
2:Q:111:SER:HB2	2:Q:148:VAL:C	1.23	1.55
1:D:818:TYR:CB	2:E:90:GLY:HA3	1.10	1.55
1:J:84:MLY:HH11	1:J:720:PHE:CD1	1.36	1.55
1:A:530:MET:HG2	4:8:354:GLN:CB	1.35	1.55
1:G:530:MET:HG2	4:V:354:GLN:CB	1.35	1.55
1:G:757:GLN:HG3	1:G:776:GLU:CG	1.33	1.55
1:M:795:ARG:CG	3:O:118:MET:HE1	1.21	1.55
1:P:548:THR:CG2	4:2:49:GLN:N	1.70	1.55
4:0:205:GLU:CG	4:Y:287:ILE:HB	1.16	1.55
1:D:725:ARG:HE	1:D:733:PRO:CB	1.09	1.54
1:G:757:GLN:CG	1:G:776:GLU:HG2	1.37	1.54
1:M:838:ILE:HD11	2:N:54:MET:CE	1.30	1.54
1:P:798:LEU:CD2	3:R:126:LEU:HD11	1.34	1.54
2:Q:144:VAL:HG13	2:Q:153:ILE:CG1	1.17	1.54
1:G:736:GLN:HA	1:G:743:ALA:CB	1.35	1.54
1:J:28:GLN:CG	1:J:723:ARG:NH1	1.71	1.54
1:J:710:GLY:CA	1:J:772:LEU:HD22	1.26	1.54
1:J:710:GLY:HA2	1:J:772:LEU:CD2	1.33	1.54
1:D:818:TYR:HB2	2:E:90:GLY:CA	1.33	1.54
1:G:792:ALA:HB2	3:I:42:THR:CG2	1.32	1.54
1:M:783:LEU:HA	1:M:786:ILE:CG1	1.31	1.54
1:P:838:ILE:HD11	2:Q:54:MET:CE	1.32	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:CG1	4:3:203:THR:N	1.67	1.54
1:D:641:LYS:HG3	1:D:647:GLN:CG	1.36	1.53
1:P:206:LYS:CD	1:P:217:THR:HG23	1.28	1.53
4:2:290:ARG:NH2	4:4:202:THR:CG2	1.71	1.53
2:B:111:SER:HB2	2:B:148:VAL:C	1.23	1.53
1:D:530:MET:HG2	4:9:354:GLN:CB	1.35	1.53
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	1.53
2:K:111:SER:HB2	2:K:148:VAL:C	1.23	1.53
1:M:725:ARG:HE	1:M:733:PRO:CB	1.09	1.53
2:N:117:LEU:HD12	2:N:147:ASN:CG	1.29	1.53
1:P:792:ALA:HB2	3:R:42:THR:CG2	1.38	1.53
4:0:243:PRO:C	4:Y:291:LYS:HE2	1.21	1.53
1:A:538:GLU:CA	4:8:349:LEU:CD1	1.78	1.53
1:D:791:GLN:HE22	3:F:115:GLY:CA	1.22	1.53
1:G:93:MET:CE	1:G:764:MLY:HD3	1.37	1.53
1:J:736:GLN:HA	1:J:743:ALA:CB	1.35	1.53
1:P:729:ALA:CB	3:R:93:VAL:HG21	1.15	1.53
1:A:508:ILE:HD11	1:A:759:ALA:CB	1.30	1.52
2:B:117:LEU:HD12	2:B:147:ASN:CG	1.30	1.52
1:P:641:LYS:HG3	1:P:647:GLN:CG	1.37	1.52
1:A:149:GLN:HB2	1:A:718:ALA:CB	1.39	1.52
1:P:530:MET:HG2	4:0:354:GLN:CB	1.36	1.52
1:A:505:MLY:CB	1:A:762:HIS:HD2	1.19	1.51
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.51
1:M:736:GLN:HA	1:M:743:ALA:CB	1.35	1.51
1:A:736:GLN:HA	1:A:743:ALA:CB	1.35	1.51
1:M:530:MET:HG2	4:Z:354:GLN:CB	1.36	1.51
2:Q:117:LEU:HD12	2:Q:147:ASN:CG	1.29	1.51
1:A:641:LYS:HG3	1:A:647:GLN:CG	1.37	1.51
1:D:508:ILE:CD1	1:D:766:PHE:CE1	1.80	1.51
1:P:736:GLN:HA	1:P:743:ALA:CB	1.35	1.51
1:D:726:VAL:HG12	1:D:785:GLU:CG	1.38	1.51
1:J:721:LYS:HG3	1:J:736:GLN:CG	1.15	1.51
1:M:206:LYS:HD3	1:M:217:THR:CG2	1.40	1.51
1:P:721:LYS:HG3	1:P:736:GLN:CG	1.15	1.51
1:A:768:MLY:HB3	1:A:771:LEU:CB	1.41	1.50
1:G:721:LYS:HG3	1:G:736:GLN:CG	1.15	1.50
1:A:795:ARG:HB3	3:C:35:ARG:CZ	1.39	1.50
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	1.50
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.50
1:G:641:LYS:HG3	1:G:647:GLN:CG	1.37	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:CD	1:J:647:GLN:CD	1.85	1.50
2:K:117:LEU:HD12	2:K:147:ASN:CB	1.41	1.50
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.50
1:D:798:LEU:HD11	3:F:126:LEU:CD1	1.06	1.50
1:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.50
1:M:641:LYS:HG3	1:M:647:GLN:CG	1.37	1.50
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.50
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.50
1:A:505:MLY:CD	1:A:762:HIS:HA	1.37	1.50
1:A:813:ILE:CG2	2:B:127:ARG:HD2	1.09	1.50
2:B:117:LEU:HD12	2:B:147:ASN:CB	1.42	1.50
1:G:797:PHE:CZ	3:I:146:ILE:CD1	1.94	1.50
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.49
1:D:508:ILE:HD11	1:D:766:PHE:CZ	0.97	1.49
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.49
1:G:641:LYS:CD	1:G:647:GLN:CD	1.85	1.49
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.49
1:D:206:LYS:HD3	1:D:217:THR:CG2	1.40	1.49
1:M:538:GLU:C	4:Z:349:LEU:CD1	1.84	1.49
4:1:287:ILE:HG12	4:3:202:THR:C	1.29	1.49
4:X:324:THR:HB	4:Z:246:GLN:N	1.27	1.49
1:D:795:ARG:NH2	3:F:116:GLU:CD	1.71	1.49
1:A:93:MET:HE2	1:A:715:VAL:CA	1.41	1.49
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.30	1.49
1:J:836:PHE:CE1	2:K:159:HIS:HA	1.45	1.49
1:P:206:LYS:HD3	1:P:217:THR:CG2	1.40	1.49
1:P:538:GLU:C	4:0:349:LEU:CD1	1.84	1.49
1:A:797:PHE:CE1	3:C:146:ILE:HA	1.44	1.49
1:A:813:ILE:HG22	2:B:127:ARG:CD	1.41	1.49
1:D:798:LEU:CD1	3:F:126:LEU:HD11	1.03	1.49
1:M:641:LYS:CD	1:M:647:GLN:CD	1.85	1.49
1:M:831:TRP:CH2	2:N:47:LEU:CD2	1.96	1.49
1:J:206:LYS:HD3	1:J:217:THR:CG2	1.40	1.48
1:M:641:LYS:CG	1:M:647:GLN:NE2	1.77	1.48
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.48
2:N:117:LEU:HD12	2:N:147:ASN:CB	1.41	1.48
1:P:795:ARG:CG	3:R:118:MET:HE1	1.42	1.48
1:D:768:MLY:C	1:D:771:LEU:HD12	1.01	1.48
1:M:28:GLN:CB	1:M:723:ARG:HH12	1.19	1.48
1:P:641:LYS:CD	1:P:647:GLN:CD	1.85	1.48
1:A:721:LYS:HG3	1:A:736:GLN:CG	1.15	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:641:LYS:CG	1:G:647:GLN:NE2	1.76	1.48
1:M:783:LEU:HG	1:M:786:ILE:CD1	1.40	1.48
1:P:548:THR:CG2	4:2:49:GLN:HB2	1.41	1.48
1:G:556:ASP:CG	4:X:47:MET:CE	1.76	1.47
1:J:838:ILE:HD11	2:K:54:MET:CE	1.39	1.47
1:A:206:LYS:HD3	1:A:217:THR:CG2	1.40	1.47
1:G:97:LEU:CD2	1:G:712:PRO:HB3	1.43	1.47
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	1.47
1:G:754:ASP:CA	1:G:779:ARG:HD2	1.40	1.47
1:G:792:ALA:CB	3:I:42:THR:HG22	1.42	1.47
4:W:324:THR:CG2	4:Y:247:VAL:H	1.24	1.47
2:Q:117:LEU:HD12	2:Q:147:ASN:CB	1.41	1.47
1:D:727:LEU:HD12	1:D:782:MLY:CD	1.38	1.46
1:M:798:LEU:CD2	3:O:126:LEU:HD11	1.45	1.46
4:X:324:THR:HB	4:Z:245:GLY:C	1.37	1.46
1:D:823:PHE:CE1	2:E:160:GLY:HA2	1.47	1.46
1:G:792:ALA:HB2	3:I:42:THR:CB	1.44	1.46
1:J:641:LYS:CG	1:J:647:GLN:NE2	1.77	1.46
1:M:84:MLY:CG	1:M:723:ARG:HD2	1.42	1.46
1:J:795:ARG:CB	3:L:35:ARG:NH1	1.74	1.45
4:1:203:THR:CG2	4:Z:288:ASP:CG	1.90	1.45
2:H:117:LEU:HD12	2:H:147:ASN:CB	1.41	1.45
1:M:783:LEU:HA	1:M:786:ILE:CD1	1.44	1.45
1:P:795:ARG:HG2	3:R:118:MET:CE	1.45	1.45
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.45
1:A:834:LEU:HD21	2:B:54:MET:CE	0.99	1.45
1:D:641:LYS:CG	1:D:647:GLN:NE2	1.77	1.45
4:0:112:PRO:HG3	4:1:195:GLU:C	1.17	1.45
4:0:287:ILE:CG2	4:2:203:THR:HG22	1.42	1.45
1:M:831:TRP:HH2	2:N:47:LEU:CD2	1.24	1.45
4:X:324:THR:CG2	4:Z:247:VAL:HG22	1.44	1.45
4:3:288:ASP:CG	4:5:203:THR:CG2	1.90	1.44
1:P:729:ALA:CB	3:R:93:VAL:CG2	1.96	1.44
1:J:505:MLY:HD2	1:J:762:HIS:CE1	1.49	1.44
1:J:819:ASN:ND2	2:K:92:ASP:HB2	1.16	1.44
1:M:786:ILE:HB	1:M:787:ILE:N	1.30	1.44
1:A:799:MET:SD	3:C:32:ASP:HB3	1.58	1.43
1:J:798:LEU:HD11	3:L:126:LEU:CD1	0.97	1.43
4:0:205:GLU:HG3	4:Y:287:ILE:CB	1.33	1.43
1:J:795:ARG:HB3	3:L:35:ARG:NH1	1.10	1.43
1:P:641:LYS:CG	1:P:647:GLN:NE2	1.76	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:834:LEU:CD2	2:E:54:MET:HE3	1.46	1.43
1:A:791:GLN:NE2	3:C:116:GLU:H	1.12	1.43
1:P:795:ARG:NH2	3:R:116:GLU:CG	1.81	1.43
1:G:567:LYS:NZ	4:X:92:ASN:HD22	1.17	1.43
1:G:838:ILE:HD11	2:H:54:MET:CE	1.48	1.43
1:M:28:GLN:HB3	1:M:723:ARG:NH1	1.17	1.42
1:P:795:ARG:NH2	3:R:116:GLU:HB3	1.26	1.42
1:P:798:LEU:HD21	3:R:126:LEU:CD1	1.48	1.42
4:0:112:PRO:HB3	4:1:196:ARG:CA	1.36	1.42
1:A:797:PHE:CZ	3:C:146:ILE:CD1	2.01	1.42
1:M:795:ARG:HG2	3:O:118:MET:CE	1.48	1.42
1:P:831:TRP:CH2	2:Q:47:LEU:CD2	2.02	1.42
1:P:836:PHE:CE1	2:Q:159:HIS:HA	1.54	1.42
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.42
1:J:733:PRO:O	1:J:737:PHE:CD1	1.73	1.42
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	1.41
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.44	1.41
1:M:733:PRO:O	1:M:737:PHE:CD1	1.73	1.41
2:N:144:VAL:CG1	2:N:153:ILE:CD1	1.99	1.41
1:A:795:ARG:NH2	3:C:116:GLU:CD	1.75	1.41
1:D:721:LYS:HG3	1:D:736:GLN:CG	1.15	1.41
2:H:144:VAL:CG1	2:H:153:ILE:CD1	1.99	1.41
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.41
1:M:793:ARG:HH11	3:O:40:ASN:ND2	1.02	1.41
1:P:202:SER:HA	1:P:207:LYS:CE	1.51	1.41
1:A:530:MET:CG	4:8:354:GLN:HB2	1.50	1.41
1:J:202:SER:HA	1:J:207:LYS:CE	1.51	1.41
1:M:641:LYS:HG3	1:M:647:GLN:CD	1.45	1.41
1:M:721:LYS:HG3	1:M:736:GLN:CG	1.15	1.41
1:D:530:MET:CG	4:9:354:GLN:HB2	1.50	1.41
1:D:733:PRO:O	1:D:737:PHE:CD1	1.74	1.41
1:D:797:PHE:CE1	3:F:146:ILE:HA	1.56	1.41
1:D:834:LEU:HD21	2:E:54:MET:CE	1.49	1.41
1:G:791:GLN:NE2	3:I:115:GLY:HA3	1.31	1.41
1:J:819:ASN:CG	2:K:92:ASP:CB	1.89	1.41
1:M:836:PHE:CE1	2:N:159:HIS:HA	1.55	1.41
1:P:733:PRO:O	1:P:737:PHE:CD1	1.73	1.41
1:D:791:GLN:NE2	3:F:115:GLY:HA3	1.33	1.40
2:E:144:VAL:CG1	2:E:153:ILE:CD1	1.99	1.40
1:P:641:LYS:CG	1:P:647:GLN:CD	1.93	1.40
1:P:798:LEU:CG	3:R:126:LEU:HD11	1.49	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:831:TRP:HH2	2:Q:47:LEU:CD2	1.32	1.40
1:A:202:SER:HA	1:A:207:LYS:CE	1.51	1.40
1:A:501:GLU:CG	1:A:762:HIS:ND1	1.85	1.40
1:P:218:LEU:CB	1:P:221:GLN:HG3	1.52	1.40
2:B:144:VAL:CG1	2:B:153:ILE:CD1	1.99	1.40
1:D:815:CYS:SG	2:E:92:ASP:CG	2.04	1.40
1:J:218:LEU:CB	1:J:221:GLN:HG3	1.52	1.40
1:M:537:GLU:O	4:Z:349:LEU:CD1	1.70	1.40
1:M:736:GLN:CA	1:M:743:ALA:CB	2.00	1.40
1:P:508:ILE:HD11	1:P:759:ALA:CB	1.49	1.40
4:X:324:THR:HG21	4:Z:247:VAL:N	1.16	1.40
1:J:798:LEU:CD1	3:L:126:LEU:CD1	1.80	1.40
1:D:218:LEU:CB	1:D:221:GLN:HG3	1.52	1.39
1:D:537:GLU:O	4:9:349:LEU:CD1	1.70	1.39
1:D:736:GLN:CA	1:D:743:ALA:CB	2.00	1.39
1:G:792:ALA:HB2	3:I:42:THR:CA	1.52	1.39
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.53	1.39
1:J:736:GLN:CA	1:J:743:ALA:CB	2.00	1.39
1:P:641:LYS:HG3	1:P:647:GLN:CD	1.45	1.39
1:A:537:GLU:O	4:8:349:LEU:CD1	1.70	1.39
1:A:733:PRO:O	1:A:737:PHE:CD1	1.73	1.39
1:A:736:GLN:CA	1:A:743:ALA:CB	2.00	1.39
1:A:831:TRP:CH2	2:B:34:ILE:HG23	1.58	1.39
1:D:202:SER:HA	1:D:207:LYS:CE	1.51	1.39
1:J:795:ARG:CD	3:L:43:ASN:OD1	1.69	1.39
4:1:287:ILE:HG12	4:3:203:THR:N	1.25	1.39
1:A:501:GLU:HG2	1:A:762:HIS:ND1	1.08	1.39
1:P:537:GLU:O	4:0:349:LEU:CD1	1.70	1.39
1:P:736:GLN:N	1:P:743:ALA:HB1	1.35	1.39
1:G:202:SER:HA	1:G:207:LYS:CE	1.51	1.39
1:G:736:GLN:N	1:G:743:ALA:HB1	1.34	1.39
4:2:290:ARG:CZ	4:4:202:THR:HG21	1.52	1.39
4:X:291:LYS:CB	4:Z:244:ASP:HB3	1.49	1.39
1:M:641:LYS:CG	1:M:647:GLN:CD	1.93	1.39
1:P:530:MET:CG	4:0:354:GLN:HB2	1.51	1.39
4:1:203:THR:HG23	4:Z:288:ASP:CG	1.47	1.39
4:1:287:ILE:HG12	4:3:202:THR:CA	1.51	1.39
1:A:218:LEU:CB	1:A:221:GLN:HG3	1.52	1.38
1:D:727:LEU:HD12	1:D:782:MLY:CE	1.51	1.38
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.38
1:J:530:MET:CG	4:W:354:GLN:HB2	1.51	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.45	1.38
1:J:821:ARG:NH2	2:K:127:ARG:HG2	1.38	1.38
1:A:149:GLN:CB	1:A:718:ALA:HB3	1.53	1.38
1:A:505:MLY:HD3	1:A:762:HIS:CA	1.51	1.38
1:G:792:ALA:CB	3:I:42:THR:CG2	1.96	1.38
1:M:530:MET:CG	4:Z:354:GLN:HB2	1.51	1.38
1:M:736:GLN:N	1:M:743:ALA:HB1	1.35	1.38
1:M:819:ASN:CA	2:N:90:GLY:O	1.72	1.38
2:Q:144:VAL:CG1	2:Q:153:ILE:CD1	1.99	1.38
1:A:508:ILE:CD1	1:A:759:ALA:HB1	0.91	1.38
1:D:724:TYR:CA	1:D:782:MLY:HD2	1.53	1.38
1:D:727:LEU:HB2	1:D:782:MLY:CH1	0.91	1.38
1:D:736:GLN:N	1:D:743:ALA:HB1	1.35	1.38
1:G:218:LEU:CB	1:G:221:GLN:HG3	1.51	1.38
1:J:736:GLN:CA	1:J:743:ALA:HB1	1.53	1.38
2:K:144:VAL:CG1	2:K:153:ILE:CD1	1.99	1.38
1:M:534:SER:O	4:Z:351:THR:CG2	1.64	1.38
1:M:736:GLN:CA	1:M:743:ALA:HB1	1.53	1.38
2:B:144:VAL:CG1	2:B:153:ILE:HG12	1.54	1.38
2:E:144:VAL:CG1	2:E:153:ILE:HG12	1.54	1.38
1:J:795:ARG:NH2	3:L:116:GLU:OE1	1.56	1.38
1:M:218:LEU:CB	1:M:221:GLN:HG3	1.52	1.37
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.37
2:B:117:LEU:HB2	2:B:147:ASN:ND2	1.39	1.37
1:G:534:SER:O	4:V:351:THR:CG2	1.64	1.37
1:P:736:GLN:CA	1:P:743:ALA:CB	2.00	1.37
1:P:819:ASN:CG	2:Q:92:ASP:HB2	1.48	1.37
4:X:291:LYS:HB3	4:Z:244:ASP:CB	1.54	1.37
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	1.37
1:D:727:LEU:CB	1:D:782:MLY:HH13	1.43	1.37
1:D:747:LEU:CD1	1:D:782:MLY:HH21	1.52	1.37
1:D:823:PHE:HE1	2:E:160:GLY:CA	1.37	1.37
1:G:537:GLU:O	4:V:349:LEU:CD1	1.71	1.37
1:J:537:GLU:O	4:W:349:LEU:CD1	1.70	1.37
4:0:243:PRO:C	4:Y:291:LYS:CE	1.78	1.37
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	1.37
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	1.37
1:M:202:SER:HA	1:M:207:LYS:CE	1.51	1.37
2:Q:144:VAL:CG1	2:Q:153:ILE:CG1	2.03	1.37
1:A:757:GLN:HB3	1:A:771:LEU:CG	1.51	1.37
1:D:642:LYS:HG3	4:9:23:GLY:N	1.40	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:819:ASN:CA	2:H:90:GLY:O	1.71	1.37
1:M:721:LYS:CG	1:M:736:GLN:CD	1.98	1.37
4:0:287:ILE:HG21	4:2:203:THR:CG2	1.54	1.37
1:A:721:LYS:CG	1:A:736:GLN:CD	1.98	1.36
2:B:144:VAL:CG1	2:B:153:ILE:CG1	2.03	1.36
1:D:736:GLN:CA	1:D:743:ALA:HB1	1.53	1.36
1:G:733:PRO:O	1:G:737:PHE:CD1	1.73	1.36
4:0:167:GLU:CD	4:2:42:GLY:HA3	1.50	1.36
1:G:530:MET:CG	4:V:354:GLN:HB2	1.51	1.36
2:N:144:VAL:CG1	2:N:153:ILE:CG1	2.03	1.36
1:P:785:GLU:C	1:P:786:ILE:N	1.81	1.36
1:D:85:TYR:OH	1:D:772:LEU:CD2	1.71	1.36
1:D:721:LYS:CG	1:D:736:GLN:CG	1.96	1.36
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	1.36
1:J:642:LYS:HG3	4:W:23:GLY:N	1.40	1.36
1:J:792:ALA:CB	3:L:42:THR:HG22	1.55	1.36
1:M:817:GLN:CG	2:N:127:ARG:CD	2.04	1.36
1:P:729:ALA:C	3:R:93:VAL:HG22	1.48	1.36
1:D:795:ARG:CZ	3:F:116:GLU:OE2	1.73	1.36
2:E:144:VAL:CG1	2:E:153:ILE:CG1	2.03	1.36
2:K:144:VAL:CG1	2:K:153:ILE:CG1	2.03	1.36
1:M:642:LYS:HG3	4:Z:23:GLY:N	1.40	1.36
1:M:793:ARG:NH1	3:O:40:ASN:ND2	1.70	1.36
1:A:649:VAL:O	1:A:649:VAL:CG1	1.74	1.36
1:A:736:GLN:N	1:A:743:ALA:HB1	1.35	1.36
1:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	1.36
2:H:144:VAL:CG1	2:H:153:ILE:CG1	2.03	1.36
1:J:84:MLY:HH21	1:J:720:PHE:CA	1.53	1.36
1:G:796:GLY:HA2	3:I:35:ARG:CD	1.53	1.35
2:K:117:LEU:HB2	2:K:147:ASN:ND2	1.39	1.35
1:M:538:GLU:CA	4:Z:349:LEU:HD12	0.88	1.35
1:P:642:LYS:HG3	4:0:23:GLY:N	1.40	1.35
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.35
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.39	1.35
1:G:553:MLY:CH1	4:X:45:VAL:HG11	1.54	1.35
1:G:721:LYS:CG	1:G:736:GLN:CG	1.97	1.35
1:G:736:GLN:CA	1:G:743:ALA:CB	2.00	1.35
1:M:649:VAL:O	1:M:649:VAL:CG1	1.74	1.35
2:N:144:VAL:CG1	2:N:153:ILE:HG12	1.54	1.35
1:D:769:ALA:HA	1:D:771:LEU:CA	1.51	1.35
1:D:795:ARG:CG	3:F:118:MET:HE1	1.57	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:HG3	4:V:23:GLY:N	1.39	1.35
2:H:144:VAL:CG1	2:H:153:ILE:HG12	1.54	1.35
2:K:117:LEU:CD1	2:K:147:ASN:OD1	1.74	1.35
1:M:838:ILE:CD1	2:N:54:MET:HE3	1.54	1.35
1:P:736:GLN:CA	1:P:743:ALA:HB1	1.53	1.35
2:Q:144:VAL:CG1	2:Q:153:ILE:HG12	1.54	1.35
1:A:530:MET:HA	4:8:354:GLN:CG	1.56	1.35
1:D:823:PHE:CE1	2:E:160:GLY:CA	2.07	1.35
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.35
1:P:721:LYS:CG	1:P:736:GLN:CD	1.98	1.35
1:A:534:SER:O	4:8:351:THR:CG2	1.64	1.34
1:D:641:LYS:HG3	1:D:647:GLN:CD	1.45	1.34
1:J:736:GLN:N	1:J:743:ALA:HB1	1.35	1.34
2:K:144:VAL:CG1	2:K:153:ILE:HG12	1.54	1.34
1:D:534:SER:O	4:9:351:THR:CG2	1.64	1.34
1:D:767:PHE:C	1:D:771:LEU:HD11	1.51	1.34
1:G:797:PHE:CE2	3:I:126:LEU:CD2	2.10	1.34
1:J:538:GLU:CA	4:W:349:LEU:HD12	0.88	1.34
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.34
1:G:754:ASP:OD2	1:G:779:ARG:CB	1.72	1.34
1:J:795:ARG:CB	3:L:35:ARG:HH12	1.33	1.34
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	1.34
1:M:805:ALA:O	1:M:809:ARG:N	1.61	1.34
1:P:537:GLU:C	4:0:349:LEU:HD13	1.52	1.34
1:P:629:GLU:HA	1:P:643:GLY:O	1.17	1.34
1:P:735:GLY:C	1:P:743:ALA:CB	2.01	1.34
1:A:736:GLN:CA	1:A:743:ALA:HB1	1.53	1.34
2:B:117:LEU:CD1	2:B:147:ASN:OD1	1.74	1.34
1:D:649:VAL:O	1:D:649:VAL:CG1	1.73	1.34
1:G:93:MET:HG2	1:G:714:ARG:C	0.91	1.34
2:H:114:LYS:CA	2:H:146:GLY:O	1.76	1.34
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.18	1.34
1:J:797:PHE:CD1	3:L:146:ILE:HG23	0.83	1.34
1:M:84:MLY:HH22	1:M:719:ASP:O	1.20	1.34
1:M:735:GLY:C	1:M:743:ALA:CB	2.01	1.34
2:N:117:LEU:HB2	2:N:147:ASN:ND2	1.39	1.34
1:P:798:LEU:HD11	3:R:126:LEU:CD1	1.57	1.34
1:A:538:GLU:CA	4:8:349:LEU:HD12	0.87	1.33
1:A:642:LYS:HG3	4:8:23:GLY:N	1.40	1.33
1:A:721:LYS:HG3	1:A:736:GLN:CD	1.53	1.33
1:A:791:GLN:HE22	3:C:116:GLU:N	1.25	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.33
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.53	1.33
1:D:538:GLU:CA	4:9:349:LEU:HD12	0.87	1.33
1:D:795:ARG:HG2	3:F:118:MET:CE	1.56	1.33
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.33
1:J:537:GLU:C	4:W:349:LEU:HD13	1.52	1.33
2:N:117:LEU:CD1	2:N:147:ASN:OD1	1.74	1.33
1:P:538:GLU:CA	4:0:349:LEU:HD12	0.88	1.33
1:D:530:MET:HA	4:9:354:GLN:CG	1.56	1.33
1:D:635:GLY:CA	4:9:334:GLU:HG2	1.59	1.33
1:G:93:MET:CE	1:G:764:MLY:CD	2.07	1.33
1:J:530:MET:HA	4:W:354:GLN:CG	1.56	1.33
1:J:649:VAL:O	1:J:649:VAL:CG1	1.74	1.33
1:P:530:MET:HA	4:0:354:GLN:CG	1.56	1.33
1:P:649:VAL:CG1	1:P:649:VAL:O	1.73	1.33
2:B:114:LYS:CA	2:B:146:GLY:O	1.76	1.33
1:D:727:LEU:CD1	1:D:782:MLY:CD	2.06	1.33
1:G:818:TYR:OH	2:H:127:ARG:NH2	1.57	1.33
1:J:629:GLU:HA	1:J:643:GLY:O	1.17	1.33
1:J:635:GLY:CA	4:W:334:GLU:HG2	1.59	1.33
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.33
2:E:117:LEU:HB2	2:E:147:ASN:ND2	1.39	1.33
1:G:530:MET:HA	4:V:354:GLN:CG	1.57	1.33
1:G:721:LYS:HG3	1:G:736:GLN:CD	1.53	1.33
1:J:534:SER:O	4:W:351:THR:CG2	1.64	1.33
1:M:530:MET:HA	4:Z:354:GLN:CG	1.56	1.33
1:P:635:GLY:CA	4:0:334:GLU:HG2	1.59	1.33
4:1:287:ILE:CG2	4:3:202:THR:CB	1.87	1.33
4:3:288:ASP:OD2	4:5:203:THR:CG2	1.72	1.33
2:E:114:LYS:CA	2:E:146:GLY:O	1.76	1.32
2:E:117:LEU:CD1	2:E:147:ASN:OD1	1.74	1.32
2:H:117:LEU:CD1	2:H:147:ASN:OD1	1.74	1.32
1:A:735:GLY:O	1:A:743:ALA:HB2	1.29	1.32
1:D:721:LYS:HG2	1:D:736:GLN:OE1	1.29	1.32
1:G:730:SER:OG	3:I:113:THR:CG2	1.75	1.32
2:N:114:LYS:CA	2:N:146:GLY:O	1.76	1.32
1:P:838:ILE:CD1	2:Q:54:MET:HE3	1.56	1.32
1:A:537:GLU:C	4:8:349:LEU:HD13	1.52	1.32
1:A:831:TRP:CZ3	2:B:34:ILE:HG12	1.63	1.32
1:G:725:ARG:NE	1:G:733:PRO:HB3	0.99	1.32
1:M:629:GLU:HA	1:M:643:GLY:O	1.17	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:792:ALA:CB	3:R:42:THR:HG22	1.60	1.32
1:A:502:GLU:CA	1:A:761:GLY:HA3	1.57	1.32
1:D:629:GLU:HA	1:D:643:GLY:O	1.17	1.32
1:D:725:ARG:NE	1:D:733:PRO:HB3	1.00	1.32
1:M:548:THR:O	4:1:47:MET:CA	1.76	1.32
1:P:506:GLU:CD	1:P:760:PHE:O	1.73	1.32
1:P:819:ASN:OD1	2:Q:92:ASP:N	1.59	1.32
2:Q:117:LEU:CD1	2:Q:147:ASN:OD1	1.74	1.32
4:1:287:ILE:CB	4:3:202:THR:HB	1.60	1.32
1:M:635:GLY:CA	4:Z:334:GLU:HG2	1.59	1.32
1:P:534:SER:O	4:0:351:THR:CG2	1.64	1.32
2:K:114:LYS:CA	2:K:146:GLY:O	1.76	1.31
1:A:538:GLU:O	4:8:349:LEU:CD1	1.78	1.31
1:J:725:ARG:NE	1:J:733:PRO:HB3	0.99	1.31
2:K:121:LEU:O	2:K:128:PHE:CB	1.79	1.31
1:M:537:GLU:C	4:Z:349:LEU:HD13	1.52	1.31
1:M:725:ARG:NE	1:M:733:PRO:HB3	1.00	1.31
1:M:721:LYS:HG3	1:M:736:GLN:CD	1.54	1.31
2:Q:117:LEU:HB2	2:Q:147:ASN:ND2	1.39	1.31
1:D:724:TYR:HA	1:D:782:MLY:CD	1.43	1.31
1:J:818:TYR:CE1	2:K:127:ARG:NH2	1.96	1.31
1:P:725:ARG:NE	1:P:733:PRO:HB3	1.00	1.31
2:Q:114:LYS:CA	2:Q:146:GLY:O	1.76	1.31
4:W:324:THR:HG21	4:Y:247:VAL:N	0.98	1.31
1:A:629:GLU:HA	1:A:643:GLY:O	1.17	1.31
1:D:599:ASN:HA	1:D:649:VAL:CB	1.60	1.31
1:G:813:ILE:HG23	2:H:128:PHE:CZ	1.65	1.31
1:J:28:GLN:CD	1:J:723:ARG:NH1	1.87	1.31
1:P:793:ARG:NH1	3:R:40:ASN:HD22	1.26	1.31
4:0:167:GLU:OE1	4:2:42:GLY:CA	1.79	1.31
4:3:288:ASP:CG	4:5:203:THR:HG23	1.47	1.31
1:A:635:GLY:CA	4:8:334:GLU:HG2	1.58	1.30
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.30
2:E:121:LEU:O	2:E:128:PHE:CB	1.79	1.30
4:0:167:GLU:OE1	4:2:42:GLY:HA3	1.21	1.30
1:A:95:THR:OG1	1:A:769:ALA:HA	1.20	1.30
1:A:725:ARG:NE	1:A:733:PRO:HB3	1.00	1.30
1:A:817:GLN:OE1	2:B:127:ARG:NE	1.62	1.30
1:G:629:GLU:HA	1:G:643:GLY:O	1.17	1.30
1:G:635:GLY:CA	4:V:334:GLU:HG2	1.59	1.30
1:M:795:ARG:HB3	3:O:35:ARG:NH2	1.45	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:538:GLU:O	4:0:349:LEU:CD1	1.78	1.30
1:P:721:LYS:HG3	1:P:736:GLN:CD	1.54	1.30
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	1.30
1:M:783:LEU:CG	1:M:786:ILE:CD1	2.10	1.30
2:N:117:LEU:CD1	2:N:147:ASN:CG	2.05	1.30
1:P:795:ARG:CD	3:R:43:ASN:OD1	1.79	1.30
2:B:121:LEU:O	2:B:128:PHE:CB	1.79	1.30
1:D:721:LYS:HG3	1:D:736:GLN:CD	1.53	1.30
1:D:767:PHE:O	1:D:771:LEU:CD1	1.79	1.30
1:J:792:ALA:CB	3:L:42:THR:CG2	2.08	1.30
1:J:826:VAL:HG21	2:K:88:LEU:CD2	1.60	1.30
1:A:757:GLN:CG	1:A:771:LEU:CD1	2.05	1.30
2:B:117:LEU:CD1	2:B:147:ASN:CG	2.05	1.30
1:D:506:GLU:OE2	1:D:764:MLY:HH22	1.18	1.30
1:P:599:ASN:HA	1:P:649:VAL:CB	1.60	1.30
1:P:798:LEU:HD11	3:R:126:LEU:CD2	1.59	1.30
1:A:599:ASN:HA	1:A:649:VAL:CB	1.60	1.29
1:D:791:GLN:CD	3:F:116:GLU:H	1.38	1.29
1:P:819:ASN:CA	2:Q:90:GLY:O	1.79	1.29
4:1:203:THR:CG2	4:Z:288:ASP:OD2	1.72	1.29
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	1.29
1:P:548:THR:HG21	4:2:49:GLN:N	0.97	1.29
1:P:769:ALA:C	1:P:771:LEU:H	1.39	1.29
1:A:757:GLN:CD	1:A:771:LEU:CD1	2.04	1.29
1:G:599:ASN:HA	1:G:649:VAL:CB	1.60	1.29
1:G:735:GLY:O	1:G:743:ALA:HB2	1.29	1.29
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.05	1.29
1:M:817:GLN:CD	2:N:127:ARG:HD2	1.54	1.29
1:M:819:ASN:CG	2:N:92:ASP:HB2	1.50	1.29
1:P:548:THR:CG2	4:2:49:GLN:CB	2.09	1.29
1:P:729:ALA:HB1	3:R:93:VAL:CG2	1.58	1.29
1:A:93:MET:CE	1:A:715:VAL:HA	1.59	1.29
1:A:793:ARG:NH2	3:C:147:MET:HE3	1.44	1.29
1:A:831:TRP:CZ3	2:B:50:THR:CG2	2.16	1.29
1:D:798:LEU:HD11	3:F:126:LEU:CG	1.61	1.29
1:D:818:TYR:CB	2:E:90:GLY:CA	1.95	1.29
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	1.29
1:G:538:GLU:O	4:V:349:LEU:CD1	1.78	1.29
1:M:599:ASN:HA	1:M:649:VAL:CB	1.60	1.29
2:Q:121:LEU:O	2:Q:128:PHE:CB	1.78	1.29
4:W:325:MET:SD	4:Y:244:ASP:HB2	1.72	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:CG	4:X:47:MET:HE3	1.10	1.29
1:M:84:MLY:HB3	1:M:723:ARG:NE	1.43	1.29
1:P:805:ALA:O	1:P:809:ARG:N	1.64	1.29
1:P:817:GLN:CG	2:Q:127:ARG:CD	2.09	1.29
1:A:149:GLN:NE2	1:A:718:ALA:CB	1.96	1.28
1:J:721:LYS:HG2	1:J:736:GLN:OE1	1.29	1.28
1:P:818:TYR:CE1	2:Q:127:ARG:NH2	1.98	1.28
1:D:795:ARG:CD	3:F:43:ASN:OD1	1.79	1.28
1:G:830:PRO:CB	2:H:67:MET:HE2	1.62	1.28
1:P:767:PHE:CD1	1:P:772:LEU:HD21	1.65	1.28
1:P:786:ILE:C	1:P:787:ILE:N	1.89	1.28
1:P:797:PHE:CE2	3:R:146:ILE:HD12	1.68	1.28
1:A:795:ARG:HB3	3:C:35:ARG:NH1	1.46	1.28
1:A:795:ARG:CD	3:C:35:ARG:HH12	1.45	1.28
2:H:121:LEU:O	2:H:128:PHE:CB	1.79	1.28
1:P:502:GLU:OE2	1:P:761:GLY:HA3	1.33	1.28
4:0:288:ASP:CG	4:2:63:GLY:N	1.92	1.28
1:D:215:GLN:N	1:D:340:ILE:HG12	1.19	1.28
1:D:813:ILE:HG23	2:E:128:PHE:CZ	1.67	1.28
1:P:215:GLN:N	1:P:340:ILE:HG12	1.19	1.28
1:P:735:GLY:O	1:P:743:ALA:HB2	1.29	1.28
4:0:112:PRO:CG	4:1:195:GLU:C	2.00	1.28
1:A:757:GLN:CB	1:A:771:LEU:HD21	1.64	1.28
1:A:818:TYR:HB2	2:B:90:GLY:CA	1.63	1.28
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.05	1.28
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	1.28
1:M:538:GLU:C	4:Z:349:LEU:HD12	1.48	1.28
2:N:121:LEU:O	2:N:128:PHE:CB	1.79	1.28
4:0:288:ASP:CB	4:2:63:GLY:HA3	1.64	1.28
1:A:721:LYS:CG	1:A:736:GLN:OE1	1.82	1.27
1:A:757:GLN:HB3	1:A:771:LEU:CD2	1.64	1.27
1:G:754:ASP:CA	1:G:779:ARG:CD	1.99	1.27
1:J:215:GLN:N	1:J:340:ILE:HG12	1.19	1.27
1:M:797:PHE:CD1	3:O:149:VAL:CG1	2.15	1.27
1:P:538:GLU:C	4:0:349:LEU:HD12	1.48	1.27
4:3:288:ASP:OD2	4:5:203:THR:HG21	1.14	1.27
1:A:499:GLU:OE1	1:A:766:PHE:HZ	1.08	1.27
1:A:831:TRP:CH2	2:B:50:THR:HB	1.69	1.27
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.27
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	1.27
1:M:553:MLY:HE2	4:1:43:VAL:CG2	1.63	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LYS:CG	1:M:736:GLN:CG	1.97	1.27
4:X:324:THR:OG1	4:Z:246:GLN:HA	1.14	1.27
1:D:799:MET:SD	3:F:32:ASP:HB3	1.75	1.27
2:N:121:LEU:C	2:N:128:PHE:CB	2.07	1.27
1:P:534:SER:O	4:0:351:THR:CA	1.81	1.27
2:Q:117:LEU:CD1	2:Q:147:ASN:CG	2.05	1.27
1:A:506:GLU:HB2	1:A:760:PHE:O	1.13	1.27
2:B:121:LEU:C	2:B:128:PHE:CB	2.07	1.27
1:D:831:TRP:CD1	2:E:51:PHE:HZ	1.52	1.27
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.27
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.27
1:J:557:GLU:CA	4:Y:47:MET:HA	1.08	1.27
1:J:721:LYS:CG	1:J:736:GLN:OE1	1.83	1.27
1:P:508:ILE:CD1	1:P:759:ALA:HB2	1.65	1.27
1:P:721:LYS:CG	1:P:736:GLN:OE1	1.83	1.27
1:P:729:ALA:C	3:R:93:VAL:CG2	2.07	1.27
2:Q:121:LEU:C	2:Q:128:PHE:CB	2.07	1.27
4:0:166:TYR:CZ	4:2:64:ILE:HG21	1.69	1.27
1:D:795:ARG:CZ	3:F:116:GLU:CD	2.03	1.27
1:J:534:SER:O	4:W:351:THR:CA	1.82	1.27
1:P:721:LYS:CG	1:P:736:GLN:CG	1.97	1.27
1:P:721:LYS:HG2	1:P:736:GLN:OE1	1.29	1.27
1:A:534:SER:O	4:8:351:THR:CA	1.81	1.26
1:D:815:CYS:SG	2:E:92:ASP:HB2	1.73	1.26
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.26
1:G:530:MET:HE2	4:V:354:GLN:CG	1.64	1.26
1:G:721:LYS:HG2	1:G:736:GLN:OE1	1.29	1.26
1:G:792:ALA:CB	3:I:42:THR:CA	2.13	1.26
1:M:534:SER:O	4:Z:351:THR:CA	1.82	1.26
1:A:757:GLN:OE1	1:A:771:LEU:HD12	1.14	1.26
1:J:84:MLY:HH11	1:J:720:PHE:CE1	1.70	1.26
4:1:288:ASP:OD2	4:3:203:THR:HG21	1.32	1.26
1:A:530:MET:HE2	4:8:354:GLN:CG	1.65	1.26
1:D:534:SER:O	4:9:351:THR:CA	1.81	1.26
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.26
1:D:721:LYS:CG	1:D:736:GLN:OE1	1.83	1.26
1:D:795:ARG:NH2	3:F:116:GLU:CG	1.95	1.26
1:J:733:PRO:O	1:J:737:PHE:HD1	0.93	1.26
1:J:819:ASN:CA	2:K:90:GLY:O	1.82	1.26
1:J:28:GLN:CB	1:J:723:ARG:NH1	1.97	1.26
1:M:538:GLU:O	4:Z:349:LEU:CD1	1.78	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LYS:CG	1:M:736:GLN:OE1	1.83	1.26
1:P:530:MET:HE2	4:0:354:GLN:CG	1.65	1.26
4:X:286:ASP:OD1	4:Z:202:THR:HB	1.28	1.26
1:A:149:GLN:OE1	1:A:716:LEU:HD23	1.11	1.25
1:D:815:CYS:SG	2:E:92:ASP:CB	2.23	1.25
1:J:530:MET:HE2	4:W:354:GLN:CG	1.65	1.25
1:M:34:ALA:CB	1:M:777:GLU:OE2	1.83	1.25
1:P:817:GLN:CD	2:Q:127:ARG:HD2	1.59	1.25
1:A:793:ARG:HH21	3:C:147:MET:CE	1.49	1.25
1:D:797:PHE:HE2	3:F:126:LEU:CD2	1.46	1.25
1:G:752:ASP:O	1:G:780:ASP:HA	1.18	1.25
1:J:756:THR:HG21	1:J:776:GLU:O	1.32	1.25
1:A:795:ARG:CB	3:C:35:ARG:NH1	1.98	1.25
1:D:538:GLU:O	4:9:349:LEU:CD1	1.78	1.25
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.04	1.25
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.25
1:M:35:MLY:CH2	1:M:778:MET:HG2	1.65	1.25
1:M:553:MLY:CG	4:1:43:VAL:HG21	1.65	1.25
4:1:288:ASP:CG	4:3:203:THR:HG21	1.59	1.25
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.22	1.25
1:G:733:PRO:O	1:G:737:PHE:HD1	0.93	1.25
1:G:819:ASN:ND2	2:H:92:ASP:HB2	1.50	1.25
1:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.25
4:1:288:ASP:CG	4:3:203:THR:CG2	2.09	1.25
1:A:149:GLN:HB3	1:A:719:ASP:N	1.51	1.25
1:A:499:GLU:OE1	1:A:766:PHE:CZ	1.90	1.25
2:B:117:LEU:HD12	2:B:147:ASN:OD1	1.32	1.25
1:D:530:MET:HE2	4:9:354:GLN:CG	1.65	1.25
1:G:534:SER:O	4:V:351:THR:CA	1.83	1.25
1:M:530:MET:HE2	4:Z:354:GLN:CG	1.65	1.25
4:X:324:THR:CB	4:Z:246:GLN:HA	1.66	1.25
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.24
1:D:641:LYS:CG	1:D:647:GLN:CG	2.15	1.24
1:G:97:LEU:CD2	1:G:712:PRO:CB	2.13	1.24
1:J:557:GLU:HA	4:Y:47:MET:C	1.62	1.24
1:M:735:GLY:O	1:M:743:ALA:HB2	1.29	1.24
1:P:552:ASN:HD22	4:2:49:GLN:CG	1.49	1.24
1:P:733:PRO:O	1:P:737:PHE:HD1	0.92	1.24
1:G:797:PHE:CZ	3:I:126:LEU:HD22	1.70	1.24
1:J:817:GLN:CG	2:K:127:ARG:HD2	1.65	1.24
1:P:630:ALA:O	4:0:25:ASP:OD2	1.52	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:322:PRO:CB	4:W:244:ASP:OD2	1.86	1.24
1:A:799:MET:SD	3:C:32:ASP:CB	2.26	1.24
1:G:646:PHE:CE2	1:G:652:LEU:HD11	1.73	1.24
1:J:795:ARG:NH2	3:L:116:GLU:CD	1.74	1.24
1:M:646:PHE:CE2	1:M:652:LEU:HD11	1.73	1.24
1:P:724:TYR:HE1	1:P:776:GLU:OE2	1.11	1.24
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.24
4:X:324:THR:CB	4:Z:246:GLN:CA	2.15	1.24
1:A:791:GLN:OE1	3:C:116:GLU:HG3	1.30	1.24
1:D:646:PHE:CE2	1:D:652:LEU:HD11	1.73	1.24
1:D:768:MLY:O	1:D:771:LEU:HD12	1.32	1.24
1:A:505:MLY:HG3	1:A:741:LYS:NZ	1.52	1.24
1:A:538:GLU:O	4:8:349:LEU:HD11	1.35	1.24
1:A:646:PHE:CE2	1:A:652:LEU:HD11	1.73	1.24
1:A:795:ARG:CD	3:C:43:ASN:OD1	1.86	1.24
1:D:791:GLN:HE22	3:F:115:GLY:C	1.44	1.24
1:D:793:ARG:NH2	3:F:147:MET:HE3	1.52	1.24
1:J:641:LYS:CG	1:J:647:GLN:CG	2.16	1.24
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.24
1:P:793:ARG:HH11	3:R:40:ASN:ND2	1.31	1.24
1:D:769:ALA:CA	1:D:771:LEU:HA	1.66	1.23
1:D:792:ALA:HB2	3:F:42:THR:CG2	1.66	1.23
1:M:783:LEU:CA	1:M:786:ILE:HG13	1.66	1.23
4:7:322:PRO:CB	4:9:244:ASP:OD2	1.86	1.23
4:V:325:MET:SD	4:X:244:ASP:HB2	1.77	1.23
1:A:95:THR:OG1	1:A:769:ALA:CA	1.85	1.23
1:D:791:GLN:NE2	3:F:116:GLU:N	1.86	1.23
1:D:813:ILE:HD13	2:E:128:PHE:CE1	1.73	1.23
1:M:629:GLU:CA	1:M:643:GLY:O	1.87	1.23
1:P:641:LYS:CG	1:P:647:GLN:CG	2.16	1.23
4:8:322:PRO:CB	4:V:244:ASP:OD2	1.86	1.23
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.23
1:D:735:GLY:O	1:D:743:ALA:HB2	1.29	1.23
1:G:557:GLU:CB	4:X:46:GLY:O	1.86	1.23
1:J:838:ILE:CD1	2:K:54:MET:HE3	1.67	1.23
1:A:629:GLU:CA	1:A:643:GLY:O	1.87	1.23
1:A:630:ALA:O	4:8:25:ASP:OD2	1.53	1.23
1:A:721:LYS:HG2	1:A:736:GLN:OE1	1.29	1.23
1:A:733:PRO:O	1:A:737:PHE:HD1	0.92	1.23
1:D:733:PRO:O	1:D:737:PHE:HD1	0.93	1.23
1:J:646:PHE:CE2	1:J:652:LEU:HD11	1.73	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LYS:HG2	1:M:736:GLN:OE1	1.29	1.23
1:P:646:PHE:CE2	1:P:652:LEU:HD11	1.73	1.23
4:X:324:THR:CB	4:Z:246:GLN:N	1.99	1.23
1:G:538:GLU:O	4:V:349:LEU:HD11	1.34	1.23
1:M:215:GLN:N	1:M:340:ILE:HG12	1.19	1.23
1:M:505:MLY:CD	1:M:762:HIS:CE1	2.22	1.23
1:M:534:SER:O	4:Z:351:THR:CB	1.87	1.23
4:W:324:THR:CG2	4:Y:247:VAL:N	1.89	1.23
1:A:752:ASP:OD2	1:A:782:MLY:HD3	1.36	1.22
4:0:166:TYR:OH	4:2:64:ILE:HG21	1.33	1.22
1:A:215:GLN:N	1:A:340:ILE:CG1	2.02	1.22
1:A:534:SER:O	4:8:351:THR:CB	1.87	1.22
2:B:144:VAL:CG1	2:B:153:ILE:HD11	1.65	1.22
1:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.22
1:G:754:ASP:OD2	1:G:779:ARG:HB2	1.29	1.22
1:M:630:ALA:O	4:Z:25:ASP:OD2	1.52	1.22
1:M:641:LYS:CG	1:M:647:GLN:CG	2.16	1.22
1:P:215:GLN:N	1:P:340:ILE:CG1	2.02	1.22
1:D:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.22
1:D:797:PHE:CD1	3:F:146:ILE:CG2	2.21	1.22
1:D:797:PHE:CG	3:F:146:ILE:HG23	1.74	1.22
1:G:215:GLN:N	1:G:340:ILE:CG1	2.02	1.22
1:G:791:GLN:HE22	3:I:115:GLY:CA	1.52	1.22
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.22
1:M:548:THR:O	4:1:47:MET:HA	1.06	1.22
1:P:793:ARG:NH1	3:R:40:ASN:ND2	1.87	1.22
1:P:798:LEU:CD2	3:R:126:LEU:CD1	2.12	1.22
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.22
1:A:707:CYS:CA	1:A:714:ARG:NH1	2.03	1.22
1:A:830:PRO:HB2	2:B:51:PHE:CE1	1.73	1.22
1:P:534:SER:O	4:0:351:THR:CB	1.87	1.22
1:P:797:PHE:CE1	3:R:146:ILE:O	1.91	1.22
1:P:798:LEU:CD1	3:R:126:LEU:HD11	1.67	1.22
2:Q:144:VAL:CG1	2:Q:153:ILE:HD11	1.65	1.22
4:1:287:ILE:CB	4:3:203:THR:N	2.00	1.22
1:A:795:ARG:CZ	3:C:116:GLU:OE2	1.86	1.22
1:D:534:SER:O	4:9:351:THR:CB	1.88	1.22
1:G:93:MET:CB	1:G:714:ARG:O	1.88	1.22
1:G:567:LYS:NZ	4:X:92:ASN:ND2	1.87	1.22
1:J:829:TRP:CZ3	2:K:84:PHE:CZ	2.26	1.22
2:K:117:LEU:HD12	2:K:147:ASN:OD1	1.32	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:538:GLU:C	4:0:349:LEU:HD11	1.54	1.22
1:P:629:GLU:CA	1:P:643:GLY:O	1.87	1.22
4:1:203:THR:HG21	4:Z:288:ASP:OD2	1.14	1.22
1:A:506:GLU:CB	1:A:760:PHE:O	1.88	1.21
2:B:54:MET:HA	2:H:21:GLU:OE1	1.36	1.21
1:G:629:GLU:CA	1:G:643:GLY:O	1.87	1.21
1:G:752:ASP:OD1	1:G:780:ASP:O	1.58	1.21
2:H:144:VAL:CG1	2:H:153:ILE:HD11	1.64	1.21
1:J:215:GLN:N	1:J:340:ILE:CG1	2.02	1.21
1:J:795:ARG:HB3	3:L:35:ARG:CZ	1.68	1.21
1:M:733:PRO:O	1:M:737:PHE:HD1	0.93	1.21
1:M:818:TYR:CE1	2:N:127:ARG:NH2	2.08	1.21
1:P:552:ASN:ND2	4:2:49:GLN:CG	2.03	1.21
1:A:641:LYS:CG	1:A:647:GLN:HG3	1.71	1.21
1:D:215:GLN:N	1:D:340:ILE:CG1	2.02	1.21
1:G:817:GLN:OE1	2:H:127:ARG:HD2	1.06	1.21
1:M:215:GLN:N	1:M:340:ILE:CG1	2.02	1.21
1:M:793:ARG:NH1	3:O:40:ASN:HD22	1.33	1.21
1:A:813:ILE:CG2	2:B:127:ARG:CD	2.03	1.21
1:D:629:GLU:CA	1:D:643:GLY:O	1.87	1.21
1:J:534:SER:O	4:W:351:THR:CB	1.88	1.21
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.21
1:M:538:GLU:C	4:Z:349:LEU:HD11	1.54	1.21
1:M:786:ILE:CB	1:M:787:ILE:N	2.04	1.21
4:3:287:ILE:HD13	4:5:203:THR:HB	1.22	1.21
1:A:754:ASP:OD2	1:A:778:MET:CE	1.89	1.21
1:G:93:MET:SD	1:G:714:ARG:O	1.97	1.21
1:G:800:ARG:NH2	3:I:40:ASN:OD1	1.74	1.21
1:G:813:ILE:CG2	2:H:128:PHE:CE1	2.22	1.21
1:J:756:THR:C	1:J:776:GLU:OE1	1.84	1.21
1:M:795:ARG:CG	3:O:118:MET:CE	2.10	1.21
1:D:553:MLY:CE	4:W:45:VAL:HA	1.52	1.21
1:D:641:LYS:CG	1:D:647:GLN:HG3	1.70	1.21
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.39	1.21
1:G:788:THR:O	3:I:42:THR:HG21	1.36	1.21
1:M:834:LEU:HD13	2:N:51:PHE:CE1	1.75	1.21
1:P:785:GLU:CG	3:R:81:GLN:HG3	1.69	1.21
1:A:721:LYS:CG	1:A:736:GLN:CG	1.96	1.20
1:A:798:LEU:CD1	3:C:126:LEU:HD21	1.72	1.20
2:Q:117:LEU:CD1	2:Q:147:ASN:CB	2.19	1.20
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:795:ARG:HG2	3:I:118:MET:CE	1.69	1.20
1:J:629:GLU:CA	1:J:643:GLY:O	1.87	1.20
1:M:783:LEU:CG	1:M:786:ILE:HD12	1.71	1.20
1:D:538:GLU:C	4:9:349:LEU:HD11	1.54	1.20
1:G:503:TYR:CE1	1:G:711:PHE:CE2	2.29	1.20
1:M:34:ALA:HB3	1:M:777:GLU:OE2	1.35	1.20
1:P:795:ARG:HB3	3:R:35:ARG:NH2	1.55	1.20
1:P:817:GLN:CB	2:Q:127:ARG:HD2	1.70	1.20
4:2:322:PRO:HB3	4:4:244:ASP:OD2	1.39	1.20
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.20
1:A:831:TRP:CH2	2:B:50:THR:CB	2.23	1.20
1:G:534:SER:O	4:V:351:THR:CB	1.88	1.20
1:J:84:MLY:CH1	1:J:720:PHE:CD1	2.22	1.20
2:N:121:LEU:C	2:N:128:PHE:HB2	1.67	1.20
1:P:538:GLU:OE2	4:0:355:MET:CE	1.90	1.20
1:A:798:LEU:HD11	3:C:126:LEU:CD2	1.70	1.20
1:J:94:MET:O	1:J:713:SER:CB	1.90	1.20
4:1:287:ILE:CG1	4:3:202:THR:CA	2.19	1.20
1:A:791:GLN:NE2	3:C:116:GLU:N	1.81	1.19
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.19
1:G:783:LEU:O	1:G:787:ILE:N	1.71	1.19
1:P:641:LYS:CG	1:P:647:GLN:HG3	1.71	1.19
1:A:538:GLU:OE2	4:8:355:MET:CE	1.91	1.19
1:A:797:PHE:CE2	3:C:146:ILE:HD12	1.77	1.19
1:D:795:ARG:HH21	3:F:116:GLU:CB	1.54	1.19
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	1.19
1:J:94:MET:O	1:J:713:SER:HB3	1.04	1.19
1:M:548:THR:O	4:1:47:MET:SD	1.99	1.19
1:P:798:LEU:CD1	3:R:126:LEU:CD1	2.20	1.19
4:9:322:PRO:HB2	4:W:244:ASP:OD2	1.39	1.19
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	1.19
1:D:727:LEU:CB	1:D:782:MLY:HH12	1.59	1.19
1:G:215:GLN:N	1:G:340:ILE:HG12	1.19	1.19
2:H:111:SER:CB	2:H:148:VAL:C	1.93	1.19
1:M:505:MLY:HD2	1:M:762:HIS:NE2	1.57	1.19
1:P:552:ASN:HD21	4:2:49:GLN:CB	1.55	1.19
4:0:288:ASP:CG	4:2:63:GLY:H	1.46	1.19
1:D:726:VAL:CG1	1:D:785:GLU:HB3	1.70	1.19
1:D:795:ARG:HD3	3:F:43:ASN:OD1	1.35	1.19
1:G:538:GLU:OE2	4:V:355:MET:CE	1.90	1.19
1:G:757:GLN:HG2	1:G:776:GLU:OE2	1.37	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:538:GLU:OE2	4:W:355:MET:CE	1.90	1.19
2:K:117:LEU:CD1	2:K:147:ASN:CB	2.19	1.19
1:M:783:LEU:CA	1:M:786:ILE:CG1	2.18	1.19
4:X:324:THR:OG1	4:Z:246:GLN:CA	1.89	1.19
1:D:831:TRP:CE2	2:E:51:PHE:CZ	2.30	1.19
1:G:819:ASN:CG	2:H:92:ASP:HB2	1.67	1.19
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.19
1:M:538:GLU:O	4:Z:349:LEU:HD11	1.35	1.19
1:A:557:GLU:H	4:V:48:GLY:CA	1.55	1.18
1:A:817:GLN:CD	2:B:127:ARG:NE	1.85	1.18
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.18
1:D:792:ALA:CB	3:F:42:THR:HG22	1.70	1.18
1:G:795:ARG:CG	3:I:118:MET:HE1	1.71	1.18
1:M:84:MLY:HB3	1:M:723:ARG:CD	1.73	1.18
1:P:721:LYS:HA	1:P:736:GLN:NE2	1.59	1.18
2:B:117:LEU:CD1	2:B:147:ASN:CB	2.19	1.18
1:G:641:LYS:CB	1:G:647:GLN:NE2	2.07	1.18
1:J:641:LYS:CG	1:J:647:GLN:HG3	1.71	1.18
1:J:829:TRP:HZ3	2:K:84:PHE:CZ	1.61	1.18
1:M:538:GLU:OE2	4:Z:355:MET:CE	1.90	1.18
4:2:290:ARG:NH2	4:4:202:THR:HG23	1.41	1.18
1:D:795:ARG:HB3	3:F:35:ARG:NH1	1.58	1.18
1:J:829:TRP:CZ3	2:K:84:PHE:CE1	2.31	1.18
1:A:795:ARG:NE	3:C:43:ASN:OD1	1.77	1.18
1:J:538:GLU:HA	4:W:349:LEU:CD1	1.55	1.18
1:J:721:LYS:HA	1:J:736:GLN:NE2	1.58	1.18
1:J:756:THR:HG21	1:J:776:GLU:C	1.68	1.18
1:M:639:GLY:HA2	4:Z:345:ILE:HA	1.26	1.18
1:M:641:LYS:CG	1:M:647:GLN:HG3	1.71	1.18
2:N:117:LEU:CD1	2:N:147:ASN:CB	2.19	1.18
1:P:641:LYS:CD	1:P:647:GLN:NE2	1.99	1.18
1:P:795:ARG:NH2	3:R:116:GLU:CD	2.00	1.18
1:P:821:ARG:NH2	2:Q:127:ARG:HG2	1.56	1.18
1:P:834:LEU:HD13	2:Q:51:PHE:CE1	1.78	1.18
4:0:205:GLU:HG3	4:Y:287:ILE:CG1	1.73	1.18
1:D:735:GLY:O	1:D:743:ALA:CB	1.91	1.18
1:G:201:ALA:O	1:G:202:SER:HB3	1.36	1.18
1:J:641:LYS:CB	1:J:647:GLN:NE2	2.07	1.18
1:M:641:LYS:CD	1:M:647:GLN:NE2	1.99	1.18
1:M:641:LYS:CB	1:M:647:GLN:NE2	2.07	1.18
1:M:817:GLN:CB	2:N:127:ARG:HD2	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:641:LYS:CB	1:P:647:GLN:NE2	2.07	1.18
4:W:324:THR:HG21	4:Y:246:GLN:C	1.61	1.18
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	1.17
1:G:541:MET:C	4:V:143:TYR:OH	1.87	1.17
1:G:796:GLY:CA	3:I:35:ARG:HD3	1.72	1.17
1:G:817:GLN:OE1	2:H:127:ARG:CD	1.93	1.17
1:G:831:TRP:HE1	2:H:67:MET:CB	1.57	1.17
1:M:541:MET:C	4:Z:143:TYR:OH	1.87	1.17
1:M:552:ASN:HB2	4:1:47:MET:C	1.60	1.17
3:O:48:LYS:C	3:O:52:ASN:ND2	2.03	1.17
1:P:538:GLU:HA	4:0:349:LEU:CD1	1.55	1.17
1:A:502:GLU:HG3	1:A:761:GLY:N	1.24	1.17
1:A:553:MLY:CE	4:V:45:VAL:HA	1.52	1.17
1:D:815:CYS:SG	2:E:92:ASP:OD1	2.01	1.17
1:M:817:GLN:HG2	2:N:127:ARG:CD	1.65	1.17
1:P:641:LYS:HD2	1:P:647:GLN:CD	1.70	1.17
4:7:322:PRO:HB2	4:9:244:ASP:OD2	1.39	1.17
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.44	1.17
1:D:538:GLU:HA	4:9:349:LEU:CD1	1.55	1.17
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.17
1:G:819:ASN:HA	2:H:90:GLY:O	1.01	1.17
1:J:641:LYS:CD	1:J:647:GLN:NE2	1.99	1.17
1:P:541:MET:C	4:0:143:TYR:OH	1.87	1.17
1:P:548:THR:HG21	4:2:49:GLN:CA	1.75	1.17
1:P:552:ASN:ND2	4:2:49:GLN:CB	2.08	1.17
2:Q:121:LEU:C	2:Q:128:PHE:HB2	1.67	1.17
4:1:203:THR:HB	4:Z:287:ILE:HD13	1.22	1.17
1:A:541:MET:C	4:8:143:TYR:OH	1.87	1.17
1:D:641:LYS:CB	1:D:647:GLN:NE2	2.07	1.17
2:E:144:VAL:CG1	2:E:153:ILE:HD11	1.64	1.17
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.17
1:M:806:MET:C	1:M:807:VAL:N	2.02	1.17
1:P:548:THR:HG22	4:2:49:GLN:CB	1.70	1.17
1:P:806:MET:C	1:P:807:VAL:N	2.02	1.17
3:R:48:LYS:C	3:R:52:ASN:ND2	2.03	1.17
1:A:798:LEU:CD1	3:C:126:LEU:HD11	1.74	1.17
2:B:111:SER:CB	2:B:148:VAL:C	1.93	1.17
1:D:541:MET:C	4:9:143:TYR:OH	1.87	1.17
1:D:727:LEU:CD1	1:D:782:MLY:CG	2.22	1.17
1:D:791:GLN:NE2	3:F:116:GLU:H	1.35	1.17
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:721:LYS:HA	1:G:736:GLN:NE2	1.58	1.17
1:G:792:ALA:CB	3:I:42:THR:HA	1.74	1.17
1:J:735:GLY:O	1:J:743:ALA:CB	1.91	1.17
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	1.17
4:8:290:ARG:NH2	4:V:202:THR:HG23	1.59	1.17
1:A:735:GLY:O	1:A:743:ALA:CB	1.91	1.16
3:C:48:LYS:C	3:C:52:ASN:ND2	2.03	1.16
1:D:641:LYS:CE	4:9:348:SER:O	1.93	1.16
1:G:201:ALA:O	1:G:202:SER:CB	1.92	1.16
1:G:553:MLY:HG3	4:X:45:VAL:O	1.01	1.16
1:G:797:PHE:CE1	3:I:146:ILE:HD12	1.80	1.16
1:J:541:MET:C	4:W:143:TYR:OH	1.87	1.16
1:J:641:LYS:HD2	1:J:647:GLN:NE2	1.59	1.16
1:J:641:LYS:CE	4:W:348:SER:O	1.93	1.16
1:M:640:LYS:HB3	1:M:645:SER:OG	1.45	1.16
1:M:798:LEU:CD2	3:O:126:LEU:CD1	2.22	1.16
1:M:817:GLN:CB	2:N:127:ARG:HH11	1.59	1.16
1:P:641:LYS:CE	4:0:348:SER:O	1.93	1.16
4:9:290:ARG:NH2	4:W:202:THR:HG23	1.59	1.16
1:A:553:MLY:HB3	4:V:46:GLY:CA	1.51	1.16
1:A:641:LYS:CB	1:A:647:GLN:NE2	2.07	1.16
1:A:797:PHE:CE2	3:C:126:LEU:HD22	1.80	1.16
1:D:767:PHE:O	1:D:771:LEU:HD11	1.01	1.16
1:D:838:ILE:HD12	2:E:54:MET:SD	1.85	1.16
1:G:553:MLY:CE	4:X:45:VAL:CB	2.22	1.16
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.16
2:H:117:LEU:HD12	2:H:147:ASN:OD1	1.32	1.16
1:P:548:THR:HG22	4:2:49:GLN:HB2	1.18	1.16
1:P:819:ASN:ND2	2:Q:92:ASP:HB2	1.56	1.16
4:0:112:PRO:CB	4:1:196:ARG:CA	2.17	1.16
1:A:215:GLN:N	1:A:340:ILE:HG12	1.20	1.16
1:D:797:PHE:CE2	3:F:126:LEU:CD2	2.23	1.16
1:G:795:ARG:NE	3:I:116:GLU:HB3	1.60	1.16
2:N:117:LEU:CD1	2:N:147:ASN:HB3	1.76	1.16
2:Q:117:LEU:HD12	2:Q:147:ASN:OD1	1.32	1.16
1:A:639:GLY:CA	4:8:345:ILE:HA	1.74	1.16
1:A:791:GLN:CD	3:C:116:GLU:H	1.53	1.16
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.16
1:G:215:GLN:HA	1:G:340:ILE:CG2	1.75	1.16
1:G:553:MLY:HE2	4:X:45:VAL:CB	1.75	1.16
1:G:557:GLU:HB3	4:X:46:GLY:O	0.99	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.16
1:G:838:ILE:CD1	2:H:54:MET:CE	2.14	1.16
1:J:754:ASP:CB	1:J:780:ASP:OD2	1.94	1.16
2:K:117:LEU:CD1	2:K:147:ASN:HB3	1.76	1.16
1:M:215:GLN:HA	1:M:340:ILE:CG2	1.75	1.16
1:M:641:LYS:CE	1:M:647:GLN:CD	2.18	1.16
1:M:721:LYS:HA	1:M:736:GLN:NE2	1.58	1.16
4:7:290:ARG:NH2	4:9:202:THR:HG23	1.59	1.16
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.52	1.16
2:B:117:LEU:CD1	2:B:147:ASN:HB3	1.76	1.16
1:D:649:VAL:HA	1:D:649:VAL:CG2	1.76	1.16
1:G:831:TRP:NE1	2:H:67:MET:HB3	1.58	1.16
1:J:215:GLN:HA	1:J:340:ILE:CG2	1.75	1.16
1:M:783:LEU:C	1:M:786:ILE:HG13	1.71	1.16
1:P:215:GLN:HA	1:P:340:ILE:CG2	1.75	1.16
1:P:538:GLU:OE2	4:0:355:MET:HE1	1.44	1.16
1:P:796:GLY:HA2	3:R:35:ARG:HD3	1.18	1.16
4:V:325:MET:SD	4:X:244:ASP:CB	2.33	1.16
1:G:84:MLY:CH1	1:G:724:TYR:HE2	1.58	1.15
1:G:538:GLU:OE2	4:V:355:MET:HE1	1.43	1.15
1:G:640:LYS:HB3	1:G:645:SER:OG	1.46	1.15
1:G:642:LYS:CG	4:V:23:GLY:N	2.08	1.15
1:J:640:LYS:HB3	1:J:645:SER:OG	1.45	1.15
1:M:642:LYS:CG	4:Z:23:GLY:N	2.08	1.15
2:N:117:LEU:HD12	2:N:147:ASN:OD1	1.32	1.15
1:P:642:LYS:CG	4:0:23:GLY:N	2.08	1.15
1:P:817:GLN:HG2	2:Q:127:ARG:CD	1.73	1.15
1:A:201:ALA:O	1:A:202:SER:HB3	1.35	1.15
1:D:201:ALA:O	1:D:202:SER:HB3	1.36	1.15
2:H:111:SER:CA	2:H:148:VAL:O	1.95	1.15
1:M:641:LYS:HD2	1:M:647:GLN:NE2	1.59	1.15
1:P:635:GLY:HA2	4:0:334:GLU:HG2	1.16	1.15
2:Q:117:LEU:HB2	2:Q:147:ASN:CG	1.70	1.15
4:7:287:ILE:HG21	4:9:205:GLU:HG2	1.17	1.15
1:A:639:GLY:HA3	4:8:344:SER:O	1.47	1.15
1:A:641:LYS:CE	4:8:348:SER:O	1.93	1.15
1:A:642:LYS:CG	4:8:23:GLY:N	2.09	1.15
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.15
2:B:117:LEU:HB2	2:B:147:ASN:CG	1.70	1.15
1:D:215:GLN:HA	1:D:340:ILE:CG2	1.76	1.15
1:D:639:GLY:CA	4:9:345:ILE:HA	1.73	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:LYS:CG	4:9:23:GLY:N	2.08	1.15
1:G:639:GLY:HA2	4:V:345:ILE:HA	1.26	1.15
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.15
1:J:641:LYS:CE	1:J:647:GLN:CD	2.18	1.15
1:J:829:TRP:CZ3	2:K:87:LYS:NZ	2.14	1.15
1:P:548:THR:CG2	4:2:49:GLN:CA	2.24	1.15
1:P:641:LYS:CE	1:P:647:GLN:CD	2.18	1.15
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.72	1.15
1:A:538:GLU:OE2	4:8:355:MET:HE1	1.45	1.15
1:A:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.15
1:A:707:CYS:HA	1:A:714:ARG:NH1	1.10	1.15
1:A:792:ALA:HB2	3:C:42:THR:CG2	1.77	1.15
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.70	1.15
1:J:542:PHE:HA	4:W:143:TYR:CE1	1.82	1.15
1:J:635:GLY:HA2	4:W:334:GLU:HG2	1.16	1.15
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.28	1.15
1:M:639:GLY:HA3	4:Z:344:SER:O	1.46	1.15
1:M:641:LYS:CE	4:Z:348:SER:O	1.93	1.15
1:P:542:PHE:HA	4:0:143:TYR:CE1	1.82	1.15
2:B:112:ILE:O	2:B:147:ASN:O	1.65	1.15
1:D:542:PHE:HA	4:9:143:TYR:CE1	1.82	1.15
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.15
1:G:639:GLY:HA3	4:V:344:SER:O	1.46	1.15
1:G:832:MET:SD	2:H:84:PHE:HE2	1.69	1.15
2:H:117:LEU:CD1	2:H:147:ASN:HB3	1.75	1.15
2:H:121:LEU:CA	2:H:128:PHE:HB3	1.77	1.15
1:J:505:MLY:CD	1:J:762:HIS:CE1	2.30	1.15
1:J:649:VAL:HA	1:J:649:VAL:CG2	1.76	1.15
1:M:84:MLY:CB	1:M:723:ARG:HD2	1.75	1.15
1:M:542:PHE:HA	4:Z:143:TYR:CE1	1.82	1.15
1:M:545:ALA:CA	4:1:45:VAL:CG1	2.24	1.15
4:0:288:ASP:HB2	4:2:63:GLY:CA	1.75	1.15
1:A:215:GLN:HA	1:A:340:ILE:CG2	1.76	1.14
1:A:502:GLU:CA	1:A:761:GLY:CA	2.25	1.14
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.14
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.59	1.14
1:D:736:GLN:N	1:D:743:ALA:CB	2.05	1.14
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.71	1.14
1:G:641:LYS:HD2	1:G:647:GLN:NE2	1.58	1.14
1:G:768:MLY:HH22	1:G:772:LEU:HD13	1.18	1.14
1:G:791:GLN:NE2	3:I:115:GLY:CA	2.09	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:820:VAL:HG11	2:H:136:MET:HE1	1.29	1.14
1:J:642:LYS:CG	4:W:23:GLY:N	2.08	1.14
2:K:144:VAL:CG1	2:K:153:ILE:HD11	1.65	1.14
1:M:783:LEU:CG	1:M:786:ILE:HD11	1.75	1.14
1:M:819:ASN:ND2	2:N:92:ASP:HB2	1.60	1.14
2:N:111:SER:CA	2:N:148:VAL:O	1.95	1.14
2:N:144:VAL:CG1	2:N:153:ILE:HD11	1.64	1.14
1:P:639:GLY:HA3	4:0:344:SER:O	1.46	1.14
4:9:287:ILE:HG21	4:W:205:GLU:HG2	1.17	1.14
1:A:641:LYS:CE	1:A:647:GLN:CD	2.18	1.14
1:A:721:LYS:HA	1:A:736:GLN:NE2	1.58	1.14
2:B:111:SER:CA	2:B:148:VAL:O	1.95	1.14
1:G:641:LYS:CE	4:V:348:SER:O	1.93	1.14
1:G:817:GLN:NE2	2:H:127:ARG:HB2	1.62	1.14
1:M:785:GLU:C	1:M:786:ILE:HA	1.72	1.14
1:P:641:LYS:HD2	1:P:647:GLN:NE2	1.59	1.14
2:Q:112:ILE:O	2:Q:147:ASN:O	1.65	1.14
4:1:244:ASP:CG	4:Z:322:PRO:HB3	1.72	1.14
4:X:325:MET:CE	4:Z:244:ASP:OD2	1.95	1.14
1:A:640:LYS:HB3	1:A:645:SER:OG	1.46	1.14
1:A:757:GLN:OE1	1:A:771:LEU:CD1	1.93	1.14
2:B:121:LEU:CA	2:B:128:PHE:HB3	1.77	1.14
1:D:641:LYS:NZ	4:9:348:SER:O	1.80	1.14
1:J:754:ASP:CA	1:J:780:ASP:OD2	1.95	1.14
2:K:111:SER:CA	2:K:148:VAL:O	1.95	1.14
2:K:121:LEU:CA	2:K:128:PHE:HB3	1.78	1.14
1:M:93:MET:HE2	1:M:764:MLY:HD3	1.26	1.14
2:N:112:ILE:O	2:N:147:ASN:O	1.65	1.14
1:P:649:VAL:CG2	1:P:649:VAL:HA	1.76	1.14
1:A:757:GLN:CB	1:A:771:LEU:CD2	2.22	1.14
1:A:795:ARG:HB3	3:C:35:ARG:NH2	1.63	1.14
1:A:797:PHE:CE1	3:C:146:ILE:CA	2.30	1.14
1:G:542:PHE:HA	4:V:143:TYR:CE1	1.82	1.14
1:G:649:VAL:HA	1:G:649:VAL:CG2	1.76	1.14
1:G:649:VAL:HG22	1:G:649:VAL:HG13	1.21	1.14
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	1.14
1:J:736:GLN:N	1:J:743:ALA:CB	2.05	1.14
1:M:84:MLY:HH21	1:M:720:PHE:HA	1.16	1.14
1:M:538:GLU:OE2	4:Z:355:MET:HE1	1.44	1.14
1:M:649:VAL:HA	1:M:649:VAL:CG2	1.76	1.14
2:N:117:LEU:HB2	2:N:147:ASN:CG	1.70	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:121:LEU:CA	2:Q:128:PHE:HB3	1.77	1.14
1:D:507:GLY:HA3	1:D:762:HIS:CG	1.83	1.14
1:D:635:GLY:HA2	4:9:334:GLU:HG2	1.16	1.14
1:D:726:VAL:CG1	1:D:785:GLU:CG	2.24	1.14
1:D:799:MET:SD	3:F:32:ASP:CB	2.35	1.14
2:E:117:LEU:HD12	2:E:147:ASN:OD1	1.33	1.14
1:G:503:TYR:OH	1:G:711:PHE:HD2	1.30	1.14
1:G:599:ASN:OD1	1:G:649:VAL:CB	1.96	1.14
1:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.14
1:G:818:TYR:CE1	2:H:127:ARG:NH2	2.14	1.14
1:J:639:GLY:HA3	4:W:344:SER:O	1.46	1.14
1:J:739:ASP:HB3	1:J:742:LYS:HB3	1.21	1.14
1:J:826:VAL:HG21	2:K:88:LEU:HD21	1.17	1.14
2:K:112:ILE:O	2:K:147:ASN:O	1.65	1.14
1:P:506:GLU:CG	1:P:760:PHE:H	1.58	1.14
1:P:640:LYS:HB3	1:P:645:SER:OG	1.45	1.14
4:W:325:MET:SD	4:Y:244:ASP:CB	2.35	1.14
1:A:649:VAL:HA	1:A:649:VAL:CG2	1.76	1.13
1:A:798:LEU:HD11	3:C:126:LEU:CD1	1.77	1.13
1:D:538:GLU:O	4:9:349:LEU:HD11	1.35	1.13
1:M:553:MLY:CD	4:1:43:VAL:HG21	1.76	1.13
1:P:735:GLY:O	1:P:743:ALA:CB	1.91	1.13
1:D:791:GLN:NE2	3:F:115:GLY:CA	1.97	1.13
2:E:111:SER:CA	2:E:148:VAL:O	1.95	1.13
1:G:557:GLU:CA	4:X:48:GLY:N	1.99	1.13
1:G:639:GLY:CA	4:V:345:ILE:HA	1.73	1.13
1:G:795:ARG:HB2	3:I:35:ARG:NH1	1.63	1.13
1:M:641:LYS:NZ	4:Z:348:SER:O	1.80	1.13
1:P:599:ASN:OD1	1:P:649:VAL:CB	1.96	1.13
4:1:203:THR:HG21	4:Z:288:ASP:CG	1.63	1.13
4:8:322:PRO:HB2	4:V:244:ASP:OD2	1.39	1.13
1:A:757:GLN:CB	1:A:771:LEU:CD1	1.86	1.13
1:D:201:ALA:O	1:D:202:SER:CB	1.92	1.13
1:D:599:ASN:OD1	1:D:649:VAL:CB	1.96	1.13
2:E:111:SER:CB	2:E:148:VAL:C	1.93	1.13
1:G:768:MLY:HH23	1:G:772:LEU:HD11	1.15	1.13
1:G:769:ALA:CB	1:G:770:GLY:HA2	1.79	1.13
1:J:599:ASN:OD1	1:J:649:VAL:CB	1.96	1.13
1:M:548:THR:C	4:1:47:MET:SD	2.15	1.13
1:P:641:LYS:CE	1:P:647:GLN:OE1	1.97	1.13
1:P:730:SER:HB3	3:R:92:ARG:C	1.63	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:111:SER:CA	2:Q:148:VAL:O	1.95	1.13
2:Q:117:LEU:CD1	2:Q:147:ASN:HB3	1.76	1.13
1:A:599:ASN:OD1	1:A:649:VAL:CB	1.96	1.13
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.13
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	1.13
1:M:201:ALA:O	1:M:202:SER:HB3	1.35	1.13
1:M:506:GLU:OE2	1:M:760:PHE:O	1.65	1.13
1:M:639:GLY:CA	4:Z:345:ILE:HA	1.73	1.13
1:P:805:ALA:HA	1:P:808:GLU:HB2	1.15	1.13
1:P:829:TRP:CZ3	2:Q:87:LYS:NZ	2.16	1.13
1:A:201:ALA:O	1:A:202:SER:CB	1.92	1.13
1:A:641:LYS:CE	1:A:647:GLN:OE1	1.97	1.13
1:D:639:GLY:HA3	4:9:344:SER:O	1.46	1.12
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.12
1:D:712:PRO:HG2	1:D:771:LEU:HB2	1.15	1.12
1:D:799:MET:CE	3:F:32:ASP:HB3	1.79	1.12
1:J:641:LYS:CE	1:J:647:GLN:OE1	1.97	1.13
1:J:819:ASN:ND2	2:K:92:ASP:CB	2.02	1.13
1:M:599:ASN:OD1	1:M:649:VAL:CB	1.96	1.12
1:M:721:LYS:HA	1:M:736:GLN:CD	1.73	1.13
1:M:821:ARG:NH2	2:N:127:ARG:HG2	1.64	1.13
2:E:121:LEU:CA	2:E:128:PHE:HB3	1.77	1.12
1:G:817:GLN:CD	2:H:127:ARG:CD	2.21	1.12
1:M:831:TRP:CH2	2:N:47:LEU:HD22	1.71	1.12
1:P:797:PHE:CZ	3:R:146:ILE:HD13	1.83	1.12
1:A:800:ARG:HB3	3:C:149:VAL:CG2	1.78	1.12
1:D:721:LYS:HG3	1:D:736:GLN:HG2	1.25	1.12
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.12
1:G:641:LYS:NZ	4:V:348:SER:O	1.80	1.12
1:J:792:ALA:CA	3:L:42:THR:HG22	1.80	1.12
2:K:111:SER:HB3	2:K:148:VAL:O	1.50	1.12
1:P:552:ASN:HD22	4:2:49:GLN:HG3	1.03	1.12
1:P:641:LYS:NZ	4:0:348:SER:O	1.80	1.12
4:0:201:VAL:N	4:Y:287:ILE:HG12	1.43	1.12
1:A:795:ARG:HD2	3:C:35:ARG:NH1	1.64	1.12
1:A:800:ARG:NH2	3:C:40:ASN:HD21	1.47	1.12
2:B:121:LEU:C	2:B:128:PHE:HB2	1.67	1.12
1:D:724:TYR:CB	1:D:782:MLY:HD3	1.80	1.12
1:D:732:ILE:HG21	1:D:782:MLY:CH2	1.80	1.12
1:D:747:LEU:HD11	1:D:782:MLY:CH2	1.79	1.12
2:E:117:LEU:CD1	2:E:147:ASN:HB3	1.75	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	1.12
1:J:94:MET:C	1:J:713:SER:HB3	1.73	1.12
1:P:721:LYS:HA	1:P:736:GLN:CD	1.73	1.12
1:A:502:GLU:CG	1:A:761:GLY:N	1.98	1.12
1:A:757:GLN:CD	1:A:771:LEU:HD11	1.65	1.12
2:B:121:LEU:O	2:B:128:PHE:HB2	0.94	1.12
1:G:754:ASP:CB	1:G:779:ARG:HD2	1.80	1.12
1:G:755:HIS:ND1	1:G:779:ARG:NH1	1.96	1.12
1:J:623:PHE:CG	1:J:623:PHE:CB	2.33	1.12
1:J:710:GLY:CA	1:J:772:LEU:CD2	2.04	1.12
1:M:623:PHE:CG	1:M:623:PHE:CB	2.33	1.12
1:M:641:LYS:CE	1:M:647:GLN:OE1	1.97	1.12
1:M:735:GLY:O	1:M:743:ALA:CB	1.91	1.12
1:M:783:LEU:HA	1:M:786:ILE:HD11	1.29	1.12
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.97	1.12
1:A:641:LYS:NZ	4:8:348:SER:O	1.79	1.12
1:A:798:LEU:HD11	3:C:126:LEU:HD21	1.21	1.12
1:D:641:LYS:CE	1:D:647:GLN:OE1	1.97	1.12
1:G:641:LYS:CE	1:G:647:GLN:OE1	1.97	1.12
1:G:795:ARG:CB	3:I:35:ARG:HH12	1.63	1.12
1:G:817:GLN:HG2	2:H:127:ARG:CB	1.79	1.12
1:P:721:LYS:HG3	1:P:736:GLN:HG2	1.25	1.12
4:1:287:ILE:HG23	4:3:202:THR:OG1	1.48	1.12
1:D:793:ARG:HH21	3:F:147:MET:CE	1.63	1.11
1:J:538:GLU:O	4:W:349:LEU:HD11	1.35	1.11
1:J:538:GLU:OE2	4:W:355:MET:HE1	1.44	1.11
1:J:821:ARG:NH2	2:K:127:ARG:CG	2.12	1.11
4:X:291:LYS:HD2	4:Z:243:PRO:HB2	1.18	1.11
1:A:502:GLU:HA	1:A:761:GLY:CA	1.79	1.11
1:A:752:ASP:CG	1:A:782:MLY:HD3	1.72	1.11
1:A:795:ARG:HG2	3:C:118:MET:HE1	1.16	1.11
1:G:508:ILE:HD11	1:G:759:ALA:HB2	1.13	1.11
1:G:649:VAL:O	1:G:649:VAL:HG12	0.94	1.11
1:M:649:VAL:O	1:M:649:VAL:HG12	0.94	1.11
1:M:805:ALA:HA	1:M:808:GLU:HB2	1.12	1.11
2:N:111:SER:HB3	2:N:148:VAL:O	1.50	1.11
2:N:121:LEU:CA	2:N:128:PHE:HB3	1.78	1.11
1:A:721:LYS:HG3	1:A:736:GLN:HG2	1.25	1.11
1:A:817:GLN:CG	2:B:127:ARG:HD3	1.61	1.11
2:E:112:ILE:O	2:E:147:ASN:O	1.65	1.11
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	1.11
1:G:721:LYS:HG3	1:G:736:GLN:HG2	1.25	1.11
2:H:112:ILE:O	2:H:147:ASN:O	1.65	1.11
1:J:557:GLU:HA	4:Y:47:MET:CA	1.48	1.11
1:J:641:LYS:NZ	4:W:348:SER:O	1.80	1.11
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.11
1:J:756:THR:HG22	1:J:776:GLU:CD	1.75	1.11
1:J:829:TRP:CZ2	2:K:83:MET:HE3	1.84	1.11
1:M:649:VAL:HG22	1:M:649:VAL:HG13	1.21	1.11
2:N:121:LEU:O	2:N:128:PHE:HB2	0.93	1.11
1:P:639:GLY:CA	4:0:345:ILE:HA	1.73	1.11
1:P:831:TRP:HH2	2:Q:47:LEU:HD21	1.10	1.11
1:P:834:LEU:HD13	2:Q:51:PHE:HE1	0.97	1.11
1:P:834:LEU:CD1	2:Q:51:PHE:HE1	1.63	1.11
2:Q:144:VAL:HG13	2:Q:153:ILE:HD11	1.21	1.11
3:R:24:LYS:CB	3:R:63:ILE:O	1.99	1.11
1:A:649:VAL:O	1:A:649:VAL:HG12	0.94	1.11
1:A:739:ASP:HB3	1:A:742:LYS:HB3	1.21	1.11
1:D:623:PHE:CB	1:D:623:PHE:CG	2.33	1.11
1:G:93:MET:HG3	1:G:714:ARG:O	1.50	1.11
1:G:752:ASP:CG	1:G:780:ASP:O	1.92	1.11
1:J:800:ARG:NH2	3:L:40:ASN:OD1	1.83	1.11
1:M:721:LYS:HG3	1:M:736:GLN:HG2	1.25	1.11
1:M:739:ASP:HB3	1:M:742:LYS:HB3	1.21	1.11
1:P:623:PHE:CG	1:P:623:PHE:CB	2.33	1.11
2:Q:111:SER:CB	2:Q:148:VAL:C	1.93	1.11
4:9:290:ARG:CZ	4:W:202:THR:HG21	1.81	1.11
1:A:623:PHE:CB	1:A:623:PHE:CG	2.33	1.11
1:A:799:MET:CE	3:C:32:ASP:HB3	1.79	1.11
1:A:831:TRP:CD1	2:B:51:PHE:CZ	2.38	1.11
1:D:85:TYR:OH	1:D:772:LEU:HD22	1.42	1.11
1:D:734:GLU:O	1:D:738:MET:HG2	1.51	1.11
1:G:707:CYS:SG	1:G:714:ARG:NH2	2.24	1.11
1:G:736:GLN:N	1:G:743:ALA:CB	2.05	1.11
1:G:754:ASP:HA	1:G:779:ARG:NE	1.63	1.11
1:M:796:GLY:HA2	3:O:35:ARG:HD3	1.32	1.11
1:P:201:ALA:O	1:P:202:SER:CB	1.92	1.11
1:P:797:PHE:CZ	3:R:146:ILE:HA	1.84	1.11
1:A:734:GLU:O	1:A:738:MET:HG2	1.51	1.10
1:G:641:LYS:HG3	1:G:647:GLN:HG3	1.21	1.10
1:G:792:ALA:HB3	3:I:42:THR:HG22	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	1.10
1:M:817:GLN:HB3	2:N:127:ARG:NH1	1.64	1.10
1:P:201:ALA:O	1:P:202:SER:HB3	1.36	1.10
1:P:218:LEU:HB2	1:P:221:GLN:HG3	1.17	1.10
4:2:322:PRO:HB3	4:4:244:ASP:CG	1.75	1.10
1:A:149:GLN:CD	1:A:718:ALA:HB3	1.77	1.10
1:A:800:ARG:CB	3:C:149:VAL:HG22	1.80	1.10
1:A:817:GLN:OE1	2:B:127:ARG:CZ	1.99	1.10
1:D:530:MET:CE	4:9:354:GLN:HG2	1.80	1.10
1:D:727:LEU:CD1	1:D:782:MLY:HH12	1.80	1.10
2:E:121:LEU:O	2:E:128:PHE:HB2	0.94	1.10
1:G:623:PHE:CB	1:G:623:PHE:CG	2.33	1.10
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.47	1.10
1:J:201:ALA:O	1:J:202:SER:HB3	1.36	1.10
1:J:797:PHE:HE1	3:L:146:ILE:HA	1.12	1.10
1:P:739:ASP:HB3	1:P:742:LYS:HB3	1.21	1.10
1:P:798:LEU:CD1	3:R:126:LEU:HD21	1.81	1.10
1:A:831:TRP:NE1	2:B:51:PHE:CZ	2.19	1.10
1:D:649:VAL:HG22	1:D:649:VAL:HG13	1.21	1.10
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	1.10
2:H:121:LEU:O	2:H:128:PHE:HB2	0.94	1.10
3:I:24:LYS:CB	3:I:63:ILE:O	1.99	1.10
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	1.10
1:J:797:PHE:CG	3:L:146:ILE:HG23	1.85	1.10
1:J:817:GLN:CD	2:K:127:ARG:HD2	1.76	1.10
1:M:834:LEU:CD1	2:N:51:PHE:HE1	1.65	1.10
1:P:552:ASN:HD21	4:2:49:GLN:HB3	0.99	1.10
1:P:649:VAL:HG22	1:P:649:VAL:HG13	1.21	1.10
1:A:202:SER:CA	1:A:207:LYS:HE2	1.82	1.10
3:C:24:LYS:CB	3:C:63:ILE:O	1.99	1.10
1:D:727:LEU:HD11	1:D:782:MLY:CG	1.80	1.10
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	1.10
1:G:769:ALA:HB3	1:G:770:GLY:HA2	1.31	1.10
1:J:530:MET:CE	4:W:354:GLN:HG2	1.80	1.10
1:M:553:MLY:CE	4:1:43:VAL:HG21	1.79	1.10
1:M:641:LYS:HD2	1:M:647:GLN:CD	1.70	1.10
1:P:641:LYS:HE3	1:P:647:GLN:CD	1.77	1.10
1:P:641:LYS:HE3	1:P:647:GLN:OE1	1.50	1.10
1:P:724:TYR:CE1	1:P:776:GLU:OE2	2.03	1.10
1:P:795:ARG:CZ	3:R:116:GLU:OE2	2.00	1.10
4:X:324:THR:CG2	4:Z:247:VAL:CG2	2.30	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:LEU:C	2:B:128:PHE:HB3	1.72	1.10
1:D:739:ASP:HB3	1:D:742:LYS:HB3	1.21	1.10
1:G:202:SER:CA	1:G:207:LYS:HE2	1.82	1.10
1:J:641:LYS:HE3	1:J:647:GLN:OE1	1.50	1.10
2:K:121:LEU:O	2:K:128:PHE:HB2	0.94	1.10
1:P:530:MET:CE	4:0:354:GLN:HG2	1.80	1.10
1:P:796:GLY:HA2	3:R:35:ARG:CD	1.79	1.10
4:2:288:ASP:H	4:4:203:THR:HG22	1.17	1.10
4:7:290:ARG:CZ	4:9:202:THR:HG21	1.81	1.10
1:D:732:ILE:CD1	1:D:782:MLY:HH11	1.82	1.09
1:D:800:ARG:NH2	3:F:40:ASN:HD21	1.49	1.09
1:J:768:MLY:HH11	1:J:772:LEU:HD12	1.19	1.09
1:M:202:SER:CA	1:M:207:LYS:HE2	1.82	1.09
1:M:641:LYS:HE3	1:M:647:GLN:OE1	1.50	1.09
1:M:831:TRP:CH2	2:N:47:LEU:HD21	1.78	1.09
1:P:538:GLU:O	4:0:349:LEU:HD11	1.35	1.09
1:P:797:PHE:CD1	3:R:146:ILE:O	2.05	1.09
1:P:831:TRP:CH2	2:Q:47:LEU:HD22	1.81	1.09
1:A:149:GLN:CB	1:A:718:ALA:CB	2.20	1.09
1:A:530:MET:CE	4:8:354:GLN:HG2	1.80	1.09
1:A:538:GLU:HA	4:8:349:LEU:CD1	1.54	1.09
1:A:641:LYS:HE3	1:A:647:GLN:OE1	1.50	1.09
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	1.09
1:D:538:GLU:CD	4:9:355:MET:HE1	1.77	1.09
1:D:571:ALA:O	1:D:572:LYS:HG3	1.52	1.09
1:D:727:LEU:HD12	1:D:782:MLY:HD3	1.20	1.09
1:D:793:ARG:HH21	3:F:147:MET:HE3	0.97	1.09
1:G:734:GLU:O	1:G:738:MET:HG2	1.51	1.09
1:J:538:GLU:CD	4:W:355:MET:HE1	1.77	1.09
1:J:571:ALA:O	1:J:572:LYS:HG3	1.52	1.09
1:J:649:VAL:HG22	1:J:649:VAL:HG13	1.21	1.09
1:J:829:TRP:CZ2	2:K:87:LYS:HE2	1.86	1.09
1:M:831:TRP:CZ2	2:N:47:LEU:HD22	1.86	1.09
1:P:538:GLU:CD	4:0:355:MET:HE1	1.77	1.09
1:P:769:ALA:O	1:P:771:LEU:CB	1.99	1.09
1:P:783:LEU:HG	1:P:786:ILE:CD1	1.80	1.09
1:P:793:ARG:HD3	3:R:40:ASN:ND2	1.65	1.09
4:0:287:ILE:CG2	4:2:203:THR:CG2	2.21	1.09
1:A:508:ILE:HD13	1:A:759:ALA:CB	1.60	1.09
1:A:635:GLY:HA2	4:8:334:GLU:HG2	1.15	1.09
1:A:757:GLN:HB2	1:A:771:LEU:HD21	1.12	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:SER:CA	1:D:207:LYS:HE2	1.82	1.09
1:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.09
1:G:530:MET:CE	4:V:354:GLN:HG2	1.80	1.09
1:G:739:ASP:HB3	1:G:742:LYS:HB3	1.21	1.09
2:H:111:SER:HB3	2:H:148:VAL:O	1.49	1.09
3:L:24:LYS:CB	3:L:63:ILE:O	1.99	1.09
1:M:530:MET:CE	4:Z:354:GLN:HG2	1.80	1.09
1:M:641:LYS:HG3	1:M:647:GLN:HG3	1.21	1.09
1:P:649:VAL:O	1:P:649:VAL:HG12	0.94	1.09
1:P:785:GLU:HG2	3:R:81:GLN:HG3	1.24	1.09
1:P:795:ARG:HD2	3:R:43:ASN:OD1	1.42	1.09
2:Q:121:LEU:O	2:Q:128:PHE:HB2	0.94	1.09
4:8:290:ARG:CZ	4:V:202:THR:HG21	1.81	1.09
1:A:639:GLY:HA2	4:8:345:ILE:HA	1.26	1.09
1:D:797:PHE:CE1	3:F:146:ILE:CA	2.34	1.09
1:G:817:GLN:CD	2:H:127:ARG:HB2	1.78	1.09
1:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.09
1:J:643:GLY:O	1:J:644:SER:OG	1.70	1.09
1:J:649:VAL:O	1:J:649:VAL:HG12	0.94	1.09
1:J:734:GLU:O	1:J:738:MET:HG2	1.51	1.09
1:J:757:GLN:NE2	1:J:777:GLU:N	1.98	1.09
1:M:201:ALA:O	1:M:202:SER:CB	1.92	1.09
1:M:538:GLU:CD	4:Z:355:MET:HE1	1.77	1.09
1:M:639:GLY:HA3	4:Z:344:SER:C	1.78	1.09
3:O:24:LYS:CB	3:O:63:ILE:O	1.99	1.09
1:P:639:GLY:HA2	4:0:345:ILE:HA	1.26	1.09
4:2:324:THR:CB	4:4:243:PRO:O	2.01	1.09
1:A:218:LEU:HB2	1:A:221:GLN:HG3	1.17	1.09
1:D:85:TYR:OH	1:D:772:LEU:HD23	1.40	1.09
1:D:641:LYS:HE3	1:D:647:GLN:OE1	1.50	1.09
1:D:649:VAL:O	1:D:649:VAL:HG12	0.94	1.09
1:D:768:MLY:CA	1:D:771:LEU:CD1	2.29	1.09
1:D:798:LEU:CD1	3:F:126:LEU:CD1	1.81	1.09
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	1.09
1:J:639:GLY:HA2	4:W:345:ILE:HA	1.26	1.09
1:J:721:LYS:HG3	1:J:736:GLN:HG2	1.25	1.09
1:M:218:LEU:HB2	1:M:221:GLN:HG3	1.17	1.09
1:M:571:ALA:O	1:M:572:LYS:HG3	1.52	1.09
1:M:783:LEU:CA	1:M:786:ILE:CD1	2.30	1.09
1:P:730:SER:N	3:R:93:VAL:CG2	2.14	1.09
4:8:287:ILE:HG21	4:V:205:GLU:HG2	1.17	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:736:GLN:HA	1:A:743:ALA:HB3	1.35	1.08
1:G:538:GLU:HA	4:V:349:LEU:CD1	1.55	1.08
1:G:553:MLY:HE2	4:X:45:VAL:HB	1.09	1.08
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	1.08
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	1.08
1:J:795:ARG:CD	3:L:43:ASN:CG	2.26	1.08
1:M:798:LEU:HD22	3:O:126:LEU:HD11	1.27	1.08
1:P:571:ALA:O	1:P:572:LYS:HG3	1.52	1.08
1:P:819:ASN:HA	2:Q:90:GLY:O	0.92	1.08
4:2:290:ARG:CZ	4:4:202:THR:CG2	2.20	1.08
1:D:639:GLY:HA3	4:9:344:SER:C	1.78	1.08
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.08
1:G:795:ARG:HB2	3:I:35:ARG:HH12	1.00	1.08
1:J:567:LYS:NZ	4:Y:92:ASN:HD22	1.50	1.08
1:J:639:GLY:CA	4:W:345:ILE:HA	1.73	1.08
1:J:795:ARG:HD3	3:L:43:ASN:OD1	0.91	1.08
2:K:111:SER:CB	2:K:148:VAL:C	1.93	1.08
1:P:502:GLU:OE2	1:P:761:GLY:CA	2.00	1.08
2:Q:111:SER:OG	2:Q:148:VAL:O	1.71	1.08
2:Q:121:LEU:HG	2:Q:128:PHE:CA	1.59	1.08
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.08
1:D:726:VAL:CG1	1:D:785:GLU:CB	2.30	1.08
1:G:538:GLU:CD	4:V:355:MET:HE1	1.77	1.08
2:K:111:SER:OG	2:K:148:VAL:O	1.71	1.08
1:M:638:GLY:CA	4:Z:341:ILE:O	2.01	1.08
2:Q:121:LEU:C	2:Q:128:PHE:HB3	1.72	1.08
4:3:288:ASP:CG	4:5:203:THR:HG21	1.63	1.08
1:A:817:GLN:HG3	2:B:127:ARG:HD3	1.30	1.08
1:D:795:ARG:HB3	3:F:35:ARG:CZ	1.84	1.08
1:D:831:TRP:CD1	2:E:51:PHE:CZ	2.41	1.08
1:G:641:LYS:HE3	1:G:647:GLN:OE1	1.50	1.08
1:J:641:LYS:HG3	1:J:647:GLN:HG3	1.21	1.08
1:J:756:THR:HG22	1:J:776:GLU:CB	1.83	1.08
1:J:798:LEU:HD11	3:L:126:LEU:HD13	1.09	1.08
1:M:529:PRO:C	4:Z:354:GLN:HB3	1.77	1.08
1:M:736:GLN:N	1:M:743:ALA:CB	2.05	1.08
1:M:792:ALA:HB2	3:O:42:THR:HG22	1.32	1.08
1:P:202:SER:CA	1:P:207:LYS:HE2	1.82	1.08
1:P:785:GLU:HG3	3:R:81:GLN:CD	1.78	1.08
4:1:287:ILE:HD13	4:3:203:THR:HB	1.10	1.08
1:A:502:GLU:CB	1:A:761:GLY:HA3	1.51	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:PHE:HE2	3:C:126:LEU:HD22	0.91	1.08
2:B:111:SER:OG	2:B:148:VAL:O	1.71	1.08
2:E:111:SER:OG	2:E:148:VAL:O	1.71	1.08
1:G:218:LEU:HB2	1:G:221:GLN:HG3	1.17	1.08
2:H:111:SER:OG	2:H:148:VAL:O	1.71	1.08
1:M:641:LYS:HE3	1:M:647:GLN:CD	1.77	1.08
1:P:149:GLN:HB3	1:P:716:LEU:HD21	1.14	1.08
1:P:643:GLY:O	1:P:644:SER:OG	1.69	1.08
1:P:817:GLN:HB3	2:Q:127:ARG:HH11	0.99	1.08
2:Q:111:SER:CB	2:Q:148:VAL:O	0.78	1.08
1:A:93:MET:HG2	1:A:715:VAL:HG22	1.25	1.07
1:A:538:GLU:CD	4:8:355:MET:HE1	1.78	1.07
2:B:111:SER:CB	2:B:148:VAL:O	0.78	1.07
1:D:638:GLY:CA	4:9:341:ILE:O	2.01	1.07
1:D:798:LEU:CG	3:F:126:LEU:HD11	1.84	1.07
1:D:800:ARG:NH2	3:F:40:ASN:ND2	2.02	1.07
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	1.07
1:M:643:GLY:O	1:M:644:SER:OG	1.69	1.07
1:P:798:LEU:CD1	3:R:126:LEU:CD2	2.30	1.07
4:3:3:ASP:HA	4:3:6:THR:HB	1.36	1.07
1:A:639:GLY:HA3	4:8:344:SER:C	1.78	1.07
1:A:836:PHE:CZ	2:B:160:GLY:N	2.21	1.07
1:D:409:GLY:N	1:D:636:LYS:HG3	1.69	1.07
1:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.07
2:E:111:SER:CB	2:E:148:VAL:O	0.78	1.07
1:G:72:VAL:HG13	1:G:76:GLN:HB3	1.36	1.07
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.07
1:G:643:GLY:O	1:G:644:SER:OG	1.70	1.07
2:H:111:SER:CB	2:H:148:VAL:O	0.78	1.07
1:J:639:GLY:HA3	4:W:344:SER:C	1.78	1.07
1:M:95:THR:OG1	1:M:770:GLY:N	1.88	1.07
1:M:538:GLU:HA	4:Z:349:LEU:CD1	1.55	1.07
1:M:541:MET:SD	4:Z:345:ILE:O	2.13	1.07
1:P:797:PHE:CE1	3:R:146:ILE:HA	1.88	1.07
1:P:798:LEU:HD11	3:R:126:LEU:CG	1.82	1.07
1:A:409:GLY:N	1:A:636:LYS:HG3	1.69	1.07
1:D:541:MET:SD	4:9:345:ILE:O	2.12	1.07
1:D:643:GLY:O	1:D:644:SER:OG	1.69	1.07
1:D:712:PRO:CG	1:D:771:LEU:HB2	1.85	1.07
1:D:727:LEU:HD11	1:D:782:MLY:HG2	1.14	1.07
2:E:111:SER:HB3	2:E:148:VAL:O	1.50	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:529:PRO:HB3	4:V:353:GLN:OE1	1.53	1.07
1:G:641:LYS:HB2	1:G:647:GLN:NE2	1.68	1.07
1:J:529:PRO:HB3	4:W:353:GLN:OE1	1.53	1.07
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.37	1.07
2:K:111:SER:CB	2:K:148:VAL:O	0.78	1.07
1:M:35:MLY:HH21	1:M:778:MET:HG2	1.26	1.07
1:M:84:MLY:HG2	1:M:723:ARG:HD2	1.24	1.07
1:M:734:GLU:O	1:M:738:MET:HG2	1.51	1.07
2:N:111:SER:CB	2:N:148:VAL:O	0.78	1.07
1:P:638:GLY:CA	4:0:341:ILE:O	2.01	1.07
1:P:734:GLU:O	1:P:738:MET:HG2	1.51	1.07
1:P:817:GLN:HB3	2:Q:127:ARG:CD	1.84	1.07
4:X:324:THR:HG22	4:Z:247:VAL:CG2	1.84	1.07
1:A:529:PRO:HB3	4:8:353:GLN:OE1	1.53	1.07
1:A:571:ALA:O	1:A:572:LYS:HG3	1.52	1.07
1:A:641:LYS:HB2	1:A:647:GLN:NE2	1.68	1.07
1:A:643:GLY:O	1:A:644:SER:OG	1.70	1.07
1:D:795:ARG:HH21	3:F:116:GLU:CG	1.57	1.07
1:D:795:ARG:HH21	3:F:116:GLU:HB3	1.19	1.07
1:G:638:GLY:CA	4:V:341:ILE:O	2.02	1.07
1:G:821:ARG:HH22	2:H:127:ARG:HG2	1.11	1.07
1:J:529:PRO:C	4:W:354:GLN:HB3	1.77	1.07
1:J:541:MET:SD	4:W:345:ILE:O	2.13	1.07
1:J:638:GLY:CA	4:W:341:ILE:O	2.01	1.07
1:J:801:VAL:HG21	3:L:126:LEU:CD2	1.84	1.07
1:M:409:GLY:N	1:M:636:LYS:HG3	1.69	1.07
1:P:548:THR:HG23	4:2:49:GLN:HB2	1.20	1.07
1:P:639:GLY:HA3	4:0:344:SER:C	1.78	1.07
1:P:641:LYS:HB2	1:P:647:GLN:NE2	1.68	1.07
4:X:3:ASP:HA	4:X:6:THR:HB	1.36	1.07
1:A:541:MET:SD	4:8:345:ILE:O	2.12	1.07
1:A:638:GLY:CA	4:8:341:ILE:O	2.01	1.07
1:A:813:ILE:HG21	2:B:127:ARG:HD2	1.19	1.07
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.07
1:J:798:LEU:HD11	3:L:126:LEU:HD12	1.37	1.07
1:M:635:GLY:HA2	4:Z:334:GLU:HG2	1.16	1.07
1:M:834:LEU:HD13	2:N:51:PHE:HE1	0.93	1.07
1:P:529:PRO:HB3	4:0:353:GLN:OE1	1.53	1.07
1:P:736:GLN:N	1:P:743:ALA:CB	2.05	1.07
1:P:795:ARG:CZ	3:R:116:GLU:HB3	1.84	1.07
1:P:795:ARG:CB	3:R:35:ARG:NH1	2.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.07
1:A:93:MET:CG	1:A:715:VAL:HG22	1.84	1.06
1:A:736:GLN:N	1:A:743:ALA:CB	2.05	1.06
1:A:768:MLY:CG	1:A:771:LEU:HD13	1.84	1.06
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	1.06
1:G:93:MET:HE2	1:G:764:MLY:HD3	1.15	1.06
1:G:409:GLY:N	1:G:636:LYS:HG3	1.69	1.06
1:G:754:ASP:CG	1:G:779:ARG:HD2	1.79	1.06
1:G:829:TRP:CH2	2:H:83:MET:HE3	1.89	1.06
2:N:111:SER:OG	2:N:148:VAL:O	1.71	1.06
1:P:72:VAL:HG13	1:P:76:GLN:HB3	1.36	1.06
1:P:791:GLN:HE22	3:R:115:GLY:HA3	1.15	1.06
1:P:797:PHE:CE2	3:R:146:ILE:CD1	2.36	1.06
1:G:93:MET:HE1	1:G:764:MLY:CD	1.85	1.06
1:G:541:MET:SD	4:V:345:ILE:O	2.13	1.06
1:G:571:ALA:O	1:G:572:LYS:HG3	1.52	1.06
1:G:641:LYS:HD2	1:G:647:GLN:CD	1.70	1.06
1:G:736:GLN:HA	1:G:743:ALA:HB3	1.35	1.06
1:G:754:ASP:N	1:G:776:GLU:OE1	1.88	1.06
1:G:834:LEU:CD1	2:H:51:PHE:CE1	2.37	1.06
1:J:28:GLN:HG2	1:J:723:ARG:NH1	1.62	1.06
1:J:201:ALA:O	1:J:202:SER:CB	1.92	1.06
1:J:409:GLY:N	1:J:636:LYS:HG3	1.69	1.06
1:M:529:PRO:HB3	4:Z:353:GLN:OE1	1.53	1.06
1:M:836:PHE:CZ	2:N:160:GLY:N	2.23	1.06
2:N:121:LEU:C	2:N:128:PHE:HB3	1.72	1.06
2:B:111:SER:HB3	2:B:148:VAL:O	1.49	1.06
1:G:821:ARG:NH2	2:H:127:ARG:HG2	1.69	1.06
1:J:797:PHE:CE2	3:L:126:LEU:HD22	1.90	1.06
1:J:836:PHE:CE1	2:K:159:HIS:CA	2.39	1.06
1:M:829:TRP:CZ3	2:N:87:LYS:NZ	2.23	1.06
1:M:831:TRP:HH2	2:N:47:LEU:HD21	1.12	1.06
1:P:641:LYS:HG3	1:P:647:GLN:HG3	1.21	1.06
1:P:769:ALA:O	1:P:771:LEU:HB3	1.55	1.06
4:1:287:ILE:CG2	4:3:202:THR:OG1	2.03	1.06
1:A:72:VAL:HG13	1:A:76:GLN:HB3	1.36	1.06
1:A:149:GLN:CG	1:A:718:ALA:HB3	1.85	1.06
2:B:114:LYS:HA	2:B:146:GLY:O	0.89	1.06
1:D:542:PHE:CG	4:9:143:TYR:HE1	1.73	1.06
1:G:553:MLY:HH13	4:X:45:VAL:HG11	1.37	1.06
1:G:819:ASN:CG	2:H:90:GLY:O	1.97	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:114:LYS:HA	2:K:146:GLY:O	0.89	1.06
1:P:769:ALA:HB1	1:P:770:GLY:N	1.69	1.06
1:P:783:LEU:CG	1:P:786:ILE:HD11	1.84	1.06
1:P:795:ARG:NH2	3:R:116:GLU:CB	1.76	1.06
1:A:753:VAL:HG12	1:A:775:LEU:CG	1.85	1.06
1:A:768:MLY:HG2	1:A:771:LEU:HD13	1.08	1.06
1:J:795:ARG:HH21	3:L:116:GLU:CG	1.68	1.06
1:J:829:TRP:CH2	2:K:84:PHE:CE1	2.43	1.06
1:P:149:GLN:HG2	1:P:716:LEU:HD11	1.13	1.06
1:P:541:MET:SD	4:0:345:ILE:O	2.13	1.06
1:A:97:LEU:HD22	1:A:712:PRO:CB	1.85	1.05
1:D:641:LYS:HB2	1:D:647:GLN:NE2	1.68	1.05
1:G:529:PRO:C	4:V:354:GLN:HB3	1.79	1.05
1:G:553:MLY:CE	4:X:45:VAL:HG12	1.68	1.05
1:M:542:PHE:CG	4:Z:143:TYR:HE1	1.73	1.05
1:M:635:GLY:HA3	4:Z:341:ILE:HD13	1.36	1.05
2:N:140:PHE:O	2:N:141:PRO:O	1.75	1.05
2:N:144:VAL:HG13	2:N:153:ILE:HD11	1.21	1.05
1:A:149:GLN:CG	1:A:719:ASP:OD1	2.03	1.05
1:A:818:TYR:HB2	2:B:90:GLY:HA3	1.08	1.05
1:D:641:LYS:HE3	4:9:348:SER:O	1.55	1.05
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.34	1.05
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.05
2:E:140:PHE:O	2:E:141:PRO:O	1.74	1.05
1:J:641:LYS:HE3	4:W:348:SER:O	1.55	1.05
2:K:140:PHE:O	2:K:141:PRO:O	1.75	1.05
1:M:783:LEU:CD1	1:M:786:ILE:HD11	1.86	1.05
1:P:530:MET:CA	4:0:354:GLN:HG3	1.87	1.05
2:Q:111:SER:HB3	2:Q:148:VAL:O	1.50	1.05
1:A:94:MET:O	1:A:713:SER:HB3	1.57	1.05
1:A:530:MET:CA	4:8:354:GLN:HG3	1.86	1.05
1:A:799:MET:SD	3:C:32:ASP:CA	2.45	1.05
1:A:800:ARG:HH22	3:C:40:ASN:ND2	1.52	1.05
1:D:72:VAL:HG13	1:D:76:GLN:HB3	1.36	1.05
1:D:530:MET:HE2	4:9:354:GLN:HG2	1.06	1.05
1:J:530:MET:CA	4:W:354:GLN:HG3	1.87	1.05
1:J:638:GLY:HA2	4:W:341:ILE:O	1.57	1.05
1:J:721:LYS:CG	1:J:736:GLN:CG	1.97	1.05
1:J:831:TRP:CH2	2:K:47:LEU:HD21	1.90	1.05
2:K:121:LEU:C	2:K:128:PHE:HB3	1.72	1.05
1:M:795:ARG:CD	3:O:118:MET:HE1	1.85	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:798:LEU:HD21	3:O:126:LEU:CD1	1.85	1.05
2:N:114:LYS:HA	2:N:146:GLY:O	0.89	1.05
2:Q:114:LYS:HA	2:Q:146:GLY:O	0.89	1.05
4:0:288:ASP:CB	4:2:63:GLY:CA	2.31	1.05
4:1:287:ILE:HB	4:3:203:THR:HG22	1.32	1.05
4:2:322:PRO:HB2	4:4:244:ASP:CB	1.85	1.05
4:W:325:MET:CE	4:Y:244:ASP:OD2	2.04	1.05
1:A:542:PHE:CG	4:8:143:TYR:HE1	1.73	1.05
1:A:635:GLY:HA3	4:8:341:ILE:HD13	1.36	1.05
1:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	1.05
1:A:798:LEU:HD11	3:C:126:LEU:HD11	1.30	1.05
1:A:800:ARG:HB3	3:C:149:VAL:HG22	1.09	1.05
1:A:800:ARG:HD2	3:C:149:VAL:C	1.81	1.05
1:D:529:PRO:C	4:9:354:GLN:HB3	1.78	1.05
1:D:747:LEU:HD13	1:D:782:MLY:HH21	1.35	1.05
1:G:542:PHE:CG	4:V:143:TYR:HE1	1.74	1.05
1:G:635:GLY:HA3	4:V:341:ILE:HD13	1.36	1.05
1:G:754:ASP:OD2	1:G:779:ARG:HB3	1.53	1.05
2:H:114:LYS:HA	2:H:146:GLY:O	0.89	1.05
1:J:72:VAL:HG13	1:J:76:GLN:HB3	1.36	1.05
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	1.05
1:M:72:VAL:HG13	1:M:76:GLN:HB3	1.36	1.05
1:M:530:MET:CA	4:Z:354:GLN:HG3	1.86	1.05
1:M:534:SER:C	4:Z:351:THR:HA	1.81	1.05
1:P:641:LYS:HE3	4:0:348:SER:O	1.55	1.05
4:0:244:ASP:N	4:Y:291:LYS:HE3	1.41	1.05
4:1:3:ASP:HA	4:1:6:THR:HB	1.36	1.05
4:X:291:LYS:CD	4:Z:243:PRO:HB2	1.87	1.05
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	1.05
1:G:84:MLY:HH22	1:G:719:ASP:O	1.53	1.05
1:J:534:SER:C	4:W:351:THR:HA	1.81	1.05
1:J:641:LYS:HB2	1:J:647:GLN:NE2	1.68	1.05
1:M:736:GLN:HA	1:M:743:ALA:HB3	1.35	1.05
1:P:409:GLY:N	1:P:636:LYS:HG3	1.69	1.05
1:P:534:SER:C	4:0:351:THR:HA	1.81	1.05
1:P:542:PHE:CG	4:0:143:TYR:HE1	1.73	1.05
1:P:836:PHE:CZ	2:Q:160:GLY:N	2.24	1.05
1:A:599:ASN:HA	1:A:649:VAL:HB	1.05	1.04
2:B:144:VAL:HG11	2:B:153:ILE:HG12	1.38	1.04
1:D:747:LEU:HD11	1:D:782:MLY:HH21	1.13	1.04
1:G:553:MLY:CE	4:X:45:VAL:HG11	1.53	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:530:MET:HE2	4:Z:354:GLN:HG2	1.06	1.04
1:M:819:ASN:HA	2:N:90:GLY:O	0.86	1.04
1:P:817:GLN:CB	2:Q:127:ARG:HH11	1.68	1.04
1:P:817:GLN:HG2	2:Q:127:ARG:CB	1.86	1.04
2:Q:144:VAL:HG11	2:Q:153:ILE:HG12	1.38	1.04
1:A:28:GLN:HE22	1:A:723:ARG:NH2	1.55	1.04
1:A:97:LEU:CD2	1:A:712:PRO:HB3	1.86	1.04
1:A:791:GLN:HE22	3:C:115:GLY:C	1.65	1.04
2:B:121:LEU:HG	2:B:128:PHE:CA	1.59	1.04
1:D:530:MET:CA	4:9:354:GLN:HG3	1.87	1.04
1:D:638:GLY:HA2	4:9:341:ILE:O	1.57	1.04
1:G:534:SER:C	4:V:351:THR:HA	1.82	1.04
1:J:542:PHE:CG	4:W:143:TYR:HE1	1.73	1.04
1:M:97:LEU:CD2	1:M:712:PRO:HB3	1.86	1.04
1:M:817:GLN:CB	2:N:127:ARG:CD	2.34	1.04
2:Q:140:PHE:O	2:Q:141:PRO:O	1.75	1.04
1:A:795:ARG:HD3	3:C:43:ASN:OD1	1.54	1.04
1:D:726:VAL:HG12	1:D:785:GLU:CB	1.87	1.04
1:G:552:ASN:O	4:X:47:MET:CE	2.05	1.04
2:H:121:LEU:C	2:H:128:PHE:HB3	1.71	1.04
1:A:534:SER:C	4:8:351:THR:HA	1.81	1.04
2:B:150:TYR:C	2:B:151:LYS:HG3	1.83	1.04
1:G:84:MLY:CD	1:G:723:ARG:HD2	1.88	1.04
1:G:797:PHE:CE1	3:I:146:ILE:CD1	2.39	1.04
3:I:49:ILE:CA	3:I:52:ASN:HD22	1.70	1.04
1:M:817:GLN:HB3	2:N:127:ARG:CD	1.88	1.04
1:P:736:GLN:HA	1:P:743:ALA:HB3	1.35	1.04
1:P:817:GLN:HB3	2:Q:127:ARG:NH1	1.73	1.04
1:A:797:PHE:HD1	3:C:146:ILE:O	1.38	1.04
1:A:831:TRP:CD1	2:B:51:PHE:HZ	1.73	1.04
1:D:534:SER:C	4:9:351:THR:HA	1.81	1.04
1:D:768:MLY:CA	1:D:771:LEU:HD12	1.88	1.04
3:F:49:ILE:HA	3:F:52:ASN:HD22	1.22	1.04
1:G:530:MET:HE2	4:V:354:GLN:HG2	1.06	1.04
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.21	1.04
1:J:56:GLU:HB2	1:J:59:MLY:HB3	1.40	1.04
1:M:783:LEU:CA	1:M:786:ILE:HD11	1.86	1.04
1:P:56:GLU:HB2	1:P:59:MLY:HB3	1.40	1.04
1:P:795:ARG:CZ	3:R:116:GLU:CD	2.30	1.04
1:P:797:PHE:CZ	3:R:146:ILE:CD1	2.40	1.04
4:0:110:LEU:O	4:1:195:GLU:HA	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:244:ASP:N	4:Y:291:LYS:NZ	2.05	1.04
1:A:795:ARG:HD2	3:C:35:ARG:HH12	0.91	1.03
1:D:736:GLN:HA	1:D:743:ALA:HB3	1.35	1.03
1:D:791:GLN:OE1	3:F:116:GLU:HG3	1.57	1.03
1:G:84:MLY:CH1	1:G:724:TYR:CE2	2.40	1.03
1:G:84:MLY:HD3	1:G:723:ARG:HD2	1.34	1.03
1:G:503:TYR:OH	1:G:711:PHE:CD2	2.03	1.03
1:G:599:ASN:HA	1:G:649:VAL:HB	1.05	1.03
1:G:791:GLN:OE1	3:I:116:GLU:HG3	1.58	1.03
1:G:838:ILE:HD12	2:H:54:MET:HE3	1.37	1.03
1:J:95:THR:HA	1:J:713:SER:CB	1.88	1.03
3:O:49:ILE:CA	3:O:52:ASN:HD22	1.71	1.03
1:P:576:GLU:HG2	1:P:577:ALA:N	1.66	1.03
1:P:785:GLU:HG3	3:R:81:GLN:OE1	1.57	1.03
4:0:204:ALA:HB3	4:Y:288:ASP:HB2	1.35	1.03
4:X:325:MET:SD	4:Z:244:ASP:OD2	2.16	1.03
2:B:112:ILE:O	2:B:147:ASN:C	2.01	1.03
3:C:49:ILE:CA	3:C:52:ASN:HD22	1.70	1.03
1:D:202:SER:CA	1:D:207:LYS:CE	2.36	1.03
1:D:823:PHE:CD1	2:E:160:GLY:HA2	1.91	1.03
2:E:149:ASP:OD2	2:E:150:TYR:N	1.91	1.03
1:G:56:GLU:HB2	1:G:59:MLY:HB3	1.40	1.03
1:G:93:MET:HE1	1:G:764:MLY:HD2	1.36	1.03
1:G:639:GLY:N	4:V:345:ILE:N	1.94	1.03
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.23	1.03
1:J:798:LEU:CG	3:L:126:LEU:HD11	1.89	1.03
2:K:144:VAL:HG11	2:K:153:ILE:HG12	1.38	1.03
2:K:149:ASP:OD2	2:K:150:TYR:N	1.91	1.03
2:N:144:VAL:HG11	2:N:153:ILE:HG12	1.37	1.03
1:A:757:GLN:CD	1:A:771:LEU:HD12	1.77	1.03
1:A:797:PHE:CE2	3:C:146:ILE:CD1	2.39	1.03
2:B:140:PHE:O	2:B:141:PRO:O	1.75	1.03
1:J:506:GLU:OE2	1:J:761:GLY:CA	2.05	1.03
1:M:638:GLY:HA2	4:Z:341:ILE:O	1.57	1.03
1:P:202:SER:CA	1:P:207:LYS:CE	2.36	1.03
1:P:792:ALA:CB	3:R:42:THR:CG2	2.25	1.03
1:P:798:LEU:HD21	3:R:126:LEU:HD12	1.33	1.03
1:P:834:LEU:CD1	2:Q:51:PHE:CE1	2.39	1.03
1:A:638:GLY:HA2	4:8:341:ILE:O	1.57	1.03
1:A:642:LYS:HG3	4:8:23:GLY:H	0.87	1.03
1:D:726:VAL:HG11	1:D:785:GLU:HB3	1.08	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:94:MET:O	1:G:713:SER:HB3	1.58	1.03
2:H:112:ILE:O	2:H:147:ASN:C	2.01	1.03
2:H:140:PHE:O	2:H:141:PRO:O	1.75	1.03
2:H:150:TYR:O	2:H:151:LYS:CB	2.06	1.03
1:J:736:GLN:HA	1:J:743:ALA:HB3	1.35	1.03
1:J:819:ASN:HA	2:K:90:GLY:O	0.86	1.03
1:J:831:TRP:CH2	2:K:47:LEU:CD2	2.42	1.03
1:M:97:LEU:HD23	1:M:712:PRO:HB3	1.36	1.03
1:M:783:LEU:O	1:M:786:ILE:HG13	1.55	1.03
1:P:642:LYS:HG3	4:0:23:GLY:H	0.86	1.03
4:8:3:ASP:HA	4:8:6:THR:HB	1.36	1.03
4:8:290:ARG:CZ	4:V:202:THR:CG2	2.36	1.03
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.36	1.03
1:A:149:GLN:CD	1:A:716:LEU:HD23	1.83	1.03
1:A:641:LYS:HE3	4:8:348:SER:O	1.56	1.03
1:D:813:ILE:CG2	2:E:128:PHE:CE1	2.41	1.03
1:D:831:TRP:CZ3	2:E:34:ILE:HG23	1.93	1.03
1:G:530:MET:CA	4:V:354:GLN:HG3	1.88	1.03
1:G:638:GLY:HA2	4:V:341:ILE:O	1.58	1.03
1:G:730:SER:OG	3:I:113:THR:HG21	0.86	1.03
1:G:795:ARG:HE	3:I:116:GLU:CB	1.70	1.03
1:J:800:ARG:HH22	3:L:40:ASN:ND2	1.56	1.03
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	1.03
2:N:149:ASP:OD2	2:N:150:TYR:N	1.91	1.03
1:P:795:ARG:HB3	3:R:35:ARG:CZ	1.87	1.03
3:R:24:LYS:HG2	3:R:63:ILE:O	1.59	1.03
3:R:49:ILE:CA	3:R:52:ASN:HD22	1.71	1.03
4:0:201:VAL:H	4:Y:287:ILE:CG1	1.53	1.03
4:1:288:ASP:OD2	4:3:203:THR:CG2	2.06	1.03
4:7:3:ASP:HA	4:7:6:THR:HB	1.36	1.03
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	1.03
1:A:97:LEU:CD2	1:A:712:PRO:CB	2.36	1.02
1:A:797:PHE:HE2	3:C:126:LEU:CD2	1.69	1.02
1:D:727:LEU:CD1	1:D:782:MLY:HG2	1.87	1.02
1:D:800:ARG:O	3:F:149:VAL:HG21	1.58	1.02
1:G:93:MET:HA	1:G:714:ARG:H	0.90	1.02
1:J:202:SER:CA	1:J:207:LYS:CE	2.36	1.02
1:J:530:MET:HE2	4:W:354:GLN:HG2	1.06	1.02
1:J:541:MET:HB3	4:W:143:TYR:OH	1.59	1.02
1:J:798:LEU:HD12	3:L:126:LEU:HD11	1.41	1.02
2:K:112:ILE:O	2:K:147:ASN:C	2.01	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:112:ILE:O	2:N:147:ASN:C	2.01	1.02
1:P:529:PRO:C	4:0:354:GLN:HB3	1.77	1.02
2:Q:117:LEU:CB	2:Q:147:ASN:CG	2.32	1.02
4:2:3:ASP:HA	4:2:6:THR:HB	1.36	1.02
1:A:541:MET:HB3	4:8:143:TYR:OH	1.60	1.02
1:A:646:PHE:HE2	1:A:652:LEU:HD21	1.24	1.02
1:A:798:LEU:HD11	3:C:126:LEU:CG	1.90	1.02
2:B:117:LEU:CB	2:B:147:ASN:CG	2.32	1.02
2:B:149:ASP:OD2	2:B:150:TYR:N	1.91	1.02
1:G:642:LYS:HG3	4:V:23:GLY:H	0.85	1.02
1:G:830:PRO:CG	2:H:67:MET:HE2	1.87	1.02
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	1.02
3:L:49:ILE:CA	3:L:52:ASN:HD22	1.71	1.02
1:M:599:ASN:HA	1:M:649:VAL:HB	1.05	1.02
1:M:641:LYS:CG	4:Z:348:SER:HB2	1.86	1.02
2:N:117:LEU:CB	2:N:147:ASN:CG	2.32	1.02
1:P:599:ASN:CA	1:P:649:VAL:HB	1.89	1.02
2:Q:149:ASP:OD2	2:Q:150:TYR:N	1.91	1.02
4:7:290:ARG:CZ	4:9:202:THR:CG2	2.36	1.02
4:9:290:ARG:CZ	4:W:202:THR:CG2	2.36	1.02
4:Z:3:ASP:HA	4:Z:6:THR:HB	1.36	1.02
1:A:149:GLN:HE21	1:A:718:ALA:CB	1.64	1.02
1:A:202:SER:CA	1:A:207:LYS:CE	2.36	1.02
1:A:818:TYR:CB	2:B:90:GLY:N	2.22	1.02
1:D:553:MLY:CB	4:W:46:GLY:CA	2.32	1.02
1:D:642:LYS:HG3	4:9:23:GLY:H	0.86	1.02
3:F:49:ILE:CA	3:F:52:ASN:HD22	1.70	1.02
1:G:93:MET:HE3	1:G:764:MLY:HD3	1.39	1.02
2:H:149:ASP:OD2	2:H:150:TYR:N	1.91	1.02
1:J:817:GLN:HB3	2:K:127:ARG:HH11	1.16	1.02
1:M:541:MET:HB3	4:Z:143:TYR:OH	1.60	1.02
1:M:642:LYS:HG3	4:Z:23:GLY:H	0.86	1.02
1:P:541:MET:HB3	4:0:143:TYR:OH	1.59	1.02
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.02
4:W:3:ASP:HA	4:W:6:THR:HB	1.36	1.02
2:B:150:TYR:O	2:B:151:LYS:CB	2.07	1.02
3:C:24:LYS:HG2	3:C:63:ILE:O	1.59	1.02
1:D:798:LEU:HD13	3:F:126:LEU:HD11	1.36	1.02
3:F:24:LYS:HG2	3:F:63:ILE:O	1.59	1.02
1:J:599:ASN:CA	1:J:649:VAL:HB	1.89	1.02
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:206:LYS:HD2	1:M:217:THR:HG23	1.41	1.02
2:N:150:TYR:C	2:N:151:LYS:HG3	1.83	1.02
1:P:831:TRP:CZ2	2:Q:47:LEU:HD22	1.95	1.02
4:4:3:ASP:HA	4:4:6:THR:HB	1.36	1.02
3:F:24:LYS:CG	3:F:63:ILE:O	2.08	1.02
1:G:93:MET:CG	1:G:714:ARG:O	0.72	1.02
2:H:117:LEU:CB	2:H:147:ASN:CG	2.32	1.02
2:H:144:VAL:HG11	2:H:153:ILE:HG12	1.38	1.02
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	1.02
1:M:576:GLU:HG2	1:M:577:ALA:H	0.85	1.02
1:M:639:GLY:N	4:Z:345:ILE:N	1.94	1.02
1:M:797:PHE:CD1	3:O:149:VAL:HG11	1.91	1.02
1:M:819:ASN:CG	2:N:90:GLY:O	2.03	1.02
1:P:767:PHE:CD1	1:P:772:LEU:CD2	2.43	1.02
1:P:795:ARG:HB2	3:R:35:ARG:NH1	1.72	1.02
1:P:803:TYR:O	1:P:807:VAL:N	1.91	1.02
4:W:291:LYS:HD2	4:Y:243:PRO:HB2	1.41	1.02
1:A:149:GLN:NE2	1:A:718:ALA:HB2	1.71	1.01
1:A:505:MLY:HD3	1:A:762:HIS:N	1.74	1.01
1:A:505:MLY:CE	1:A:762:HIS:HA	1.87	1.01
1:A:641:LYS:HG3	1:A:647:GLN:HG3	1.21	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CZ3	1.95	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CH2	1.95	1.01
3:C:24:LYS:CG	3:C:63:ILE:O	2.08	1.01
2:E:112:ILE:O	2:E:147:ASN:C	2.01	1.01
1:G:93:MET:HA	1:G:714:ARG:N	1.75	1.01
1:G:576:GLU:HG2	1:G:577:ALA:H	0.85	1.01
1:J:98:HIS:HB3	1:J:100:PRO:HD2	1.42	1.01
1:M:93:MET:HE2	1:M:764:MLY:CD	1.90	1.01
1:M:641:LYS:HB2	1:M:647:GLN:NE2	1.68	1.01
1:P:599:ASN:HA	1:P:649:VAL:HB	1.05	1.01
4:0:3:ASP:HA	4:0:6:THR:HB	1.36	1.01
4:1:322:PRO:HB3	4:3:244:ASP:CB	1.90	1.01
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.59	1.01
4:Y:3:ASP:HA	4:Y:6:THR:HB	1.36	1.01
1:A:599:ASN:CA	1:A:649:VAL:HB	1.89	1.01
1:A:639:GLY:N	4:8:345:ILE:N	1.94	1.01
1:A:797:PHE:CD1	3:C:146:ILE:O	2.12	1.01
1:D:508:ILE:HD13	1:D:766:PHE:CE1	1.88	1.01
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.01
1:D:599:ASN:CA	1:D:649:VAL:HB	1.89	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:121:LEU:CB	2:K:128:PHE:HB3	1.69	1.01
2:K:144:VAL:HG13	2:K:153:ILE:HD11	1.21	1.01
3:L:49:ILE:HA	3:L:52:ASN:HD22	1.23	1.01
1:P:530:MET:HE2	4:0:354:GLN:HG2	1.06	1.01
1:P:635:GLY:HA3	4:0:341:ILE:HD13	1.36	1.01
1:P:641:LYS:CG	4:0:348:SER:HB2	1.86	1.01
1:P:817:GLN:CB	2:Q:127:ARG:CD	2.34	1.01
2:Q:112:ILE:O	2:Q:147:ASN:C	2.01	1.01
3:R:24:LYS:CG	3:R:63:ILE:O	2.08	1.01
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.23	1.01
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	1.01
1:D:732:ILE:CD1	1:D:782:MLY:CH1	2.38	1.01
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	1.01
2:E:144:VAL:HG11	2:E:153:ILE:HG12	1.38	1.01
2:E:150:TYR:O	2:E:151:LYS:CB	2.06	1.01
1:G:84:MLY:NZ	1:G:724:TYR:HE2	1.58	1.01
1:G:641:LYS:HE3	1:G:647:GLN:HB2	1.42	1.01
1:G:769:ALA:HB3	1:G:770:GLY:CA	1.90	1.01
1:M:817:GLN:HG2	2:N:127:ARG:HD2	1.19	1.01
1:P:638:GLY:HA2	4:0:341:ILE:O	1.57	1.01
1:P:646:PHE:HE2	1:P:652:LEU:HD21	1.24	1.01
1:P:795:ARG:HH21	3:R:116:GLU:CG	1.57	1.01
4:0:112:PRO:HG3	4:1:196:ARG:N	1.67	1.01
4:9:290:ARG:NH2	4:W:202:THR:CG2	2.23	1.01
1:A:530:MET:HE2	4:8:354:GLN:HG2	1.06	1.01
1:A:831:TRP:HH2	2:B:50:THR:CB	1.69	1.01
1:D:553:MLY:HG2	4:W:44:MET:O	1.59	1.01
1:D:727:LEU:CD1	1:D:782:MLY:CE	2.32	1.01
1:G:599:ASN:CA	1:G:649:VAL:HB	1.89	1.01
1:G:795:ARG:HH21	3:I:116:GLU:HG2	1.25	1.01
1:J:642:LYS:HG3	4:W:23:GLY:H	0.86	1.01
1:J:795:ARG:HB2	3:L:35:ARG:NH1	1.74	1.01
1:M:98:HIS:HB3	1:M:100:PRO:HD2	1.42	1.01
1:M:795:ARG:HG3	3:O:118:MET:HE1	1.38	1.01
1:M:817:GLN:HB3	2:N:127:ARG:HH11	0.90	1.01
1:P:503:TYR:OH	1:P:711:PHE:HD2	1.42	1.01
1:P:769:ALA:C	1:P:771:LEU:N	2.18	1.01
4:9:3:ASP:HA	4:9:6:THR:HB	1.36	1.01
1:A:95:THR:HG1	1:A:769:ALA:CA	1.66	1.01
1:A:502:GLU:HA	1:A:762:HIS:N	1.76	1.01
3:C:48:LYS:O	3:C:52:ASN:ND2	1.94	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ASN:HA	1:D:649:VAL:HB	1.05	1.01
1:D:635:GLY:HA3	4:9:341:ILE:HD13	1.37	1.01
1:D:712:PRO:HB2	1:D:771:LEU:CB	1.90	1.01
1:J:599:ASN:HA	1:J:649:VAL:HB	1.05	1.01
1:J:641:LYS:HE3	1:J:647:GLN:HB2	1.43	1.01
1:J:756:THR:CG2	1:J:776:GLU:CA	2.38	1.01
1:M:537:GLU:C	4:Z:349:LEU:CD1	2.20	1.01
1:M:599:ASN:CA	1:M:649:VAL:HB	1.89	1.01
1:M:641:LYS:HE3	1:M:647:GLN:HB2	1.42	1.01
2:N:121:LEU:HG	2:N:128:PHE:CA	1.60	1.01
2:N:150:TYR:O	2:N:151:LYS:CB	2.07	1.01
1:P:642:LYS:HD3	4:0:340:TRP:CZ3	1.96	1.01
1:P:642:LYS:HD3	4:0:340:TRP:CH2	1.95	1.01
4:0:166:TYR:CZ	4:2:64:ILE:CG2	2.44	1.01
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.01
1:A:56:GLU:HB2	1:A:59:MLY:HB3	1.40	1.00
1:A:97:LEU:HD22	1:A:712:PRO:HB3	1.38	1.00
1:A:576:GLU:HG2	1:A:577:ALA:H	0.85	1.00
1:A:797:PHE:CD1	3:C:146:ILE:HG23	1.95	1.00
1:D:557:GLU:N	4:W:48:GLY:CA	2.12	1.00
1:D:831:TRP:NE1	2:E:51:PHE:HZ	1.47	1.00
1:G:206:LYS:HD2	1:G:217:THR:HG23	1.41	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CH2	1.96	1.00
1:G:813:ILE:CG2	2:H:128:PHE:CZ	2.40	1.00
1:G:829:TRP:HH2	2:H:83:MET:HE3	1.23	1.00
1:G:834:LEU:HD13	2:H:51:PHE:CE1	1.95	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CH2	1.96	1.00
1:J:646:PHE:HE2	1:J:652:LEU:HD21	1.24	1.00
1:J:721:LYS:CA	1:J:736:GLN:CD	2.34	1.00
1:J:757:GLN:HA	1:J:776:GLU:HG3	1.42	1.00
1:J:838:ILE:HD11	2:K:54:MET:HE3	1.01	1.00
3:L:48:LYS:O	3:L:52:ASN:ND2	1.94	1.00
1:M:35:MLY:CH2	1:M:778:MET:CG	2.38	1.00
1:M:84:MLY:CG	1:M:723:ARG:CD	2.38	1.00
1:M:84:MLY:NZ	1:M:724:TYR:HE2	1.57	1.00
1:P:836:PHE:CE1	2:Q:159:HIS:CA	2.44	1.00
4:9:287:ILE:HB	4:W:204:ALA:H	1.25	1.00
1:A:576:GLU:HG2	1:A:577:ALA:N	1.66	1.00
1:A:641:LYS:HE3	1:A:647:GLN:CB	1.91	1.00
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	1.00
1:D:534:SER:O	4:9:351:THR:HA	1.59	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:641:LYS:HE3	1:D:647:GLN:HB2	1.42	1.00
1:G:97:LEU:HD23	1:G:712:PRO:CB	1.82	1.00
1:G:202:SER:CA	1:G:207:LYS:CE	2.36	1.00
1:G:215:GLN:CA	1:G:340:ILE:HG23	1.92	1.00
1:G:541:MET:HB3	4:V:143:TYR:OH	1.59	1.00
1:G:641:LYS:HE3	1:G:647:GLN:CB	1.91	1.00
1:G:752:ASP:O	1:G:780:ASP:OD1	1.77	1.00
1:G:795:ARG:HG2	3:I:118:MET:HE1	1.03	1.00
2:H:121:LEU:HG	2:H:128:PHE:CA	1.60	1.00
3:I:24:LYS:CG	3:I:63:ILE:O	2.08	1.00
1:J:84:MLY:CH2	1:J:720:PHE:CA	2.25	1.00
1:J:635:GLY:HA3	4:W:341:ILE:HD13	1.36	1.00
1:J:793:ARG:HH21	3:L:147:MET:HE3	1.25	1.00
3:L:24:LYS:HG2	3:L:63:ILE:O	1.59	1.00
1:M:534:SER:O	4:Z:351:THR:HA	1.60	1.00
1:M:545:ALA:HA	4:1:45:VAL:HG12	1.00	1.00
1:M:642:LYS:HD3	4:Z:340:TRP:CH2	1.95	1.00
3:O:24:LYS:HG2	3:O:63:ILE:O	1.59	1.00
1:P:506:GLU:HG2	1:P:760:PHE:N	1.75	1.00
1:P:641:LYS:HE3	1:P:647:GLN:HB2	1.43	1.00
1:A:534:SER:O	4:8:351:THR:HA	1.59	1.00
1:A:641:LYS:HE3	1:A:647:GLN:HB2	1.42	1.00
1:A:797:PHE:CG	3:C:146:ILE:HG23	1.96	1.00
1:D:174:SER:HB3	1:D:667:THR:HG21	1.44	1.00
1:D:206:LYS:HD2	1:D:217:THR:HG23	1.41	1.00
1:D:218:LEU:CA	1:D:221:GLN:HG3	1.90	1.00
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	1.00
1:G:735:GLY:C	1:G:743:ALA:CA	2.34	1.00
3:I:24:LYS:HG2	3:I:63:ILE:O	1.59	1.00
1:J:174:SER:HB3	1:J:667:THR:HG21	1.44	1.00
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.00
1:M:215:GLN:CA	1:M:340:ILE:HG23	1.92	1.00
1:P:174:SER:HB3	1:P:667:THR:HG21	1.44	1.00
1:A:501:GLU:CB	1:A:762:HIS:ND1	2.24	1.00
1:D:795:ARG:CB	3:F:35:ARG:NH1	2.23	1.00
1:G:98:HIS:HB3	1:G:100:PRO:HD2	1.42	1.00
1:G:730:SER:CB	3:I:113:THR:HG21	1.90	1.00
1:M:800:ARG:NH2	3:O:40:ASN:OD1	1.95	1.00
1:M:836:PHE:CE1	2:N:159:HIS:CA	2.45	1.00
4:V:324:THR:CG2	4:X:247:VAL:N	2.24	1.00
1:D:98:HIS:HB3	1:D:100:PRO:HD2	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:LYS:HD3	4:9:340:TRP:CH2	1.96	1.00
1:G:552:ASN:O	4:X:47:MET:HE1	1.61	1.00
1:G:576:GLU:CG	1:G:577:ALA:H	1.75	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CZ3	1.96	1.00
1:G:789:ALA:HB1	3:I:81:GLN:CD	1.87	1.00
1:G:817:GLN:CG	2:H:127:ARG:HB2	1.91	1.00
1:M:506:GLU:CG	1:M:760:PHE:O	2.09	1.00
1:M:838:ILE:CD1	2:N:54:MET:CE	2.23	1.00
1:P:98:HIS:HB3	1:P:100:PRO:HD2	1.42	1.00
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	1.00
1:D:735:GLY:C	1:D:743:ALA:CA	2.35	1.00
1:G:646:PHE:HE2	1:G:652:LEU:HD21	1.24	1.00
1:J:95:THR:HA	1:J:713:SER:OG	1.61	1.00
1:J:735:GLY:C	1:J:743:ALA:CA	2.34	1.00
1:M:56:GLU:HB2	1:M:59:MLY:HB3	1.40	1.00
1:M:782:MLY:HD2	3:O:86:ASP:OD1	1.62	1.00
3:R:48:LYS:O	3:R:52:ASN:ND2	1.94	1.00
4:0:288:ASP:OD2	4:2:63:GLY:N	1.95	1.00
1:A:576:GLU:CG	1:A:577:ALA:H	1.75	1.00
1:M:218:LEU:CA	1:M:221:GLN:HG3	1.91	1.00
1:M:641:LYS:HE3	1:M:647:GLN:CB	1.91	1.00
2:N:139:ALA:O	2:N:141:PRO:HD3	1.62	1.00
3:O:24:LYS:CG	3:O:63:ILE:O	2.08	1.00
1:P:836:PHE:HE1	2:Q:159:HIS:HA	1.18	1.00
2:Q:150:TYR:C	2:Q:151:LYS:HG3	1.83	1.00
1:D:642:LYS:HD3	4:9:340:TRP:CZ3	1.96	0.99
1:D:831:TRP:CH2	2:E:34:ILE:HG23	1.96	0.99
1:G:534:SER:O	4:V:351:THR:HA	1.60	0.99
1:G:795:ARG:NH2	3:I:116:GLU:HG2	1.77	0.99
1:M:817:GLN:HG2	2:N:127:ARG:CB	1.91	0.99
1:P:721:LYS:CA	1:P:736:GLN:CD	2.34	0.99
1:P:819:ASN:CG	2:Q:92:ASP:CB	2.34	0.99
4:3:288:ASP:N	4:5:203:THR:HG22	1.75	0.99
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.99
4:X:324:THR:HB	4:Z:246:GLN:CA	1.84	0.99
1:A:206:LYS:HD2	1:A:217:THR:HG23	1.41	0.99
1:A:553:MLY:HG2	4:V:44:MET:O	1.59	0.99
1:A:795:ARG:CB	3:C:35:ARG:CZ	2.32	0.99
1:J:795:ARG:HH21	3:L:116:GLU:CD	1.52	0.99
1:J:829:TRP:CE2	2:K:87:LYS:HE2	1.97	0.99
1:M:202:SER:CA	1:M:207:LYS:CE	2.36	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:SER:CB	2:N:148:VAL:C	1.93	0.99
1:P:218:LEU:CA	1:P:221:GLN:HG3	1.91	0.99
4:8:286:ASP:OD1	4:V:203:THR:HG22	1.62	0.99
1:A:797:PHE:HZ	3:C:146:ILE:HD13	1.27	0.99
2:B:149:ASP:OD2	2:B:150:TYR:O	1.80	0.99
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.95	0.99
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
1:M:797:PHE:CZ	3:O:146:ILE:HD13	1.97	0.99
1:M:834:LEU:CD1	2:N:51:PHE:CE1	2.40	0.99
1:P:729:ALA:CA	3:R:93:VAL:HG21	1.92	0.99
2:Q:141:PRO:HB2	2:Q:142:PRO:HD2	1.44	0.99
3:R:49:ILE:HA	3:R:52:ASN:HD22	1.23	0.99
1:A:612:GLN:HE22	1:A:627:GLY:CA	1.75	0.99
1:D:537:GLU:C	4:9:349:LEU:CD1	2.20	0.99
1:G:641:LYS:HE3	4:V:348:SER:O	1.56	0.99
1:G:649:VAL:CG1	1:G:649:VAL:HG22	1.92	0.99
1:G:753:VAL:C	1:G:779:ARG:HD3	1.87	0.99
3:I:48:LYS:O	3:I:52:ASN:ND2	1.94	0.99
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	0.99
1:P:730:SER:N	3:R:93:VAL:HG22	1.72	0.99
4:1:288:ASP:CG	4:3:203:THR:HG23	1.86	0.99
4:7:287:ILE:HB	4:9:204:ALA:H	1.26	0.99
1:A:795:ARG:HH21	3:C:116:GLU:HB3	1.26	0.99
3:C:49:ILE:HA	3:C:52:ASN:HD22	1.22	0.99
1:D:641:LYS:CD	4:9:348:SER:HB2	1.93	0.99
1:G:218:LEU:CA	1:G:221:GLN:HG3	1.91	0.99
1:G:795:ARG:NH2	3:I:116:GLU:CG	2.26	0.99
1:M:831:TRP:CZ2	2:N:47:LEU:CD2	2.45	0.99
2:N:149:ASP:OD2	2:N:150:TYR:O	1.80	0.99
1:P:785:GLU:HG3	3:R:81:GLN:CG	1.92	0.99
4:0:243:PRO:CA	4:Y:291:LYS:HE3	1.93	0.99
4:1:203:THR:HG22	4:Z:288:ASP:N	1.75	0.99
1:A:501:GLU:HG2	1:A:762:HIS:CE1	1.98	0.99
1:A:735:GLY:C	1:A:743:ALA:CA	2.34	0.99
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	0.99
2:K:141:PRO:HB2	2:K:142:PRO:HD2	1.44	0.99
2:K:150:TYR:O	2:K:151:LYS:CB	2.06	0.99
1:M:642:LYS:HD3	4:Z:340:TRP:CZ3	1.96	0.99
1:M:721:LYS:CA	1:M:736:GLN:CD	2.34	0.99
2:N:130:PRO:O	2:N:133:ILE:N	1.96	0.99
3:O:48:LYS:O	3:O:52:ASN:ND2	1.94	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:244:ASP:CB	4:Z:322:PRO:CB	2.40	0.99
4:8:322:PRO:HB3	4:V:244:ASP:OD2	1.62	0.99
4:9:286:ASP:OD1	4:W:203:THR:HG22	1.62	0.99
1:A:93:MET:HG2	1:A:715:VAL:CG2	1.92	0.99
1:A:215:GLN:CA	1:A:340:ILE:HG23	1.92	0.99
1:D:818:TYR:HB3	2:E:90:GLY:CA	1.87	0.99
1:G:817:GLN:HB3	2:H:127:ARG:HD3	1.43	0.99
1:M:576:GLU:CG	1:M:577:ALA:H	1.75	0.99
1:P:506:GLU:CG	1:P:760:PHE:N	2.25	0.99
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	0.99
1:D:508:ILE:HD11	1:D:766:PHE:HZ	1.22	0.99
1:G:576:GLU:HG2	1:G:577:ALA:N	1.66	0.99
1:J:206:LYS:HD2	1:J:217:THR:HG23	1.41	0.99
1:J:553:MLY:HE3	4:Y:45:VAL:CG1	1.92	0.99
1:J:768:MLY:HH11	1:J:772:LEU:CD1	1.85	0.99
1:M:797:PHE:CE1	3:O:149:VAL:HG12	1.98	0.99
1:M:803:TYR:O	1:M:807:VAL:N	1.94	0.99
1:M:819:ASN:CG	2:N:92:ASP:CB	2.35	0.99
1:P:735:GLY:C	1:P:743:ALA:CA	2.34	0.99
4:X:291:LYS:HE3	4:Z:243:PRO:HB3	1.45	0.99
1:A:218:LEU:CA	1:A:221:GLN:HG3	1.91	0.99
1:A:768:MLY:HB3	1:A:771:LEU:CG	1.93	0.99
1:D:56:GLU:HB2	1:D:59:MLY:HB3	1.40	0.99
1:D:612:GLN:HE22	1:D:627:GLY:CA	1.75	0.99
1:J:530:MET:CE	4:W:354:GLN:CG	2.40	0.99
1:M:819:ASN:HA	2:N:90:GLY:C	1.86	0.99
1:P:612:GLN:HE22	1:P:627:GLY:CA	1.75	0.99
2:Q:149:ASP:OD2	2:Q:150:TYR:O	1.80	0.99
2:B:141:PRO:HB2	2:B:142:PRO:HD2	1.44	0.99
1:D:649:VAL:CG1	1:D:649:VAL:HG22	1.92	0.99
1:M:552:ASN:CB	4:1:47:MET:C	2.12	0.99
1:M:783:LEU:HD12	1:M:786:ILE:HD11	1.45	0.99
2:B:130:PRO:O	2:B:133:ILE:N	1.96	0.98
2:B:139:ALA:O	2:B:141:PRO:HD3	1.62	0.98
1:D:725:ARG:C	1:D:782:MLY:HH22	1.88	0.98
1:G:84:MLY:CG	1:G:723:ARG:HD2	1.93	0.98
1:G:755:HIS:H	1:G:779:ARG:CZ	1.75	0.98
1:G:784:ALA:O	1:G:788:THR:N	1.96	0.98
1:J:215:GLN:CA	1:J:340:ILE:HG23	1.92	0.98
1:J:534:SER:O	4:W:351:THR:HA	1.60	0.98
2:K:149:ASP:OD2	2:K:150:TYR:O	1.80	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:612:GLN:HE22	1:M:627:GLY:CA	1.75	0.98
3:O:49:ILE:HA	3:O:52:ASN:HD22	1.23	0.98
1:P:829:TRP:CZ2	2:Q:87:LYS:HE2	1.97	0.98
4:0:204:ALA:CB	4:Y:288:ASP:HB2	1.91	0.98
1:A:649:VAL:CG1	1:A:649:VAL:HG22	1.92	0.98
1:A:795:ARG:CZ	3:C:43:ASN:OD1	2.05	0.98
1:D:576:GLU:HG2	1:D:577:ALA:H	0.85	0.98
1:D:646:PHE:HE2	1:D:652:LEU:HD21	1.24	0.98
1:D:727:LEU:CG	1:D:782:MLY:HH12	1.93	0.98
1:J:831:TRP:HZ3	2:K:34:ILE:HD13	1.28	0.98
1:M:94:MET:O	1:M:713:SER:HB3	1.63	0.98
1:M:95:THR:OG1	1:M:770:GLY:CA	2.12	0.98
1:M:95:THR:HG1	1:M:770:GLY:N	1.61	0.98
1:P:649:VAL:CG1	1:P:649:VAL:HG22	1.92	0.98
1:P:729:ALA:HB3	3:R:93:VAL:CG2	1.90	0.98
4:0:288:ASP:OD2	4:2:63:GLY:CA	2.11	0.98
4:1:287:ILE:HD13	4:3:203:THR:CB	1.93	0.98
1:D:215:GLN:CA	1:D:340:ILE:HG23	1.92	0.98
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.44	0.98
1:J:649:VAL:CG1	1:J:649:VAL:HG22	1.92	0.98
1:J:710:GLY:C	1:J:772:LEU:HD22	1.88	0.98
1:M:735:GLY:C	1:M:743:ALA:CA	2.35	0.98
1:P:641:LYS:HE3	1:P:647:GLN:CB	1.91	0.98
4:3:322:PRO:CB	4:5:244:ASP:CB	2.40	0.98
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	0.98
1:A:800:ARG:C	3:C:149:VAL:HG21	1.88	0.98
1:D:791:GLN:HE22	3:F:116:GLU:N	1.55	0.98
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	0.98
3:F:52:ASN:HB2	3:F:53:PRO:HD3	1.46	0.98
1:G:795:ARG:C	3:I:35:ARG:NH2	2.20	0.98
1:J:829:TRP:HZ3	2:K:84:PHE:CE2	1.81	0.98
1:M:797:PHE:CE1	3:O:149:VAL:CG1	2.46	0.98
1:A:28:GLN:NE2	1:A:723:ARG:HH21	1.62	0.98
1:A:98:HIS:HB3	1:A:100:PRO:HD2	1.42	0.98
1:A:792:ALA:CB	3:C:42:THR:HG22	1.93	0.98
1:A:831:TRP:CH2	2:B:50:THR:CG2	2.45	0.98
1:G:818:TYR:CE1	2:H:127:ARG:CZ	2.45	0.98
2:H:139:ALA:O	2:H:141:PRO:HD3	1.62	0.98
1:J:612:GLN:HE22	1:J:627:GLY:CA	1.75	0.98
1:J:795:ARG:HD3	3:L:43:ASN:CG	1.88	0.98
1:P:817:GLN:HG2	2:Q:127:ARG:HD2	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:MET:CE	4:8:354:GLN:CG	2.41	0.98
1:D:530:MET:CE	4:9:354:GLN:CG	2.40	0.98
1:D:641:LYS:HE3	1:D:647:GLN:CB	1.91	0.98
1:D:727:LEU:CD1	1:D:782:MLY:HD3	1.80	0.98
1:G:757:GLN:CG	1:G:776:GLU:CG	2.14	0.98
2:H:149:ASP:OD2	2:H:150:TYR:O	1.80	0.98
1:J:838:ILE:CD1	2:K:54:MET:CE	2.31	0.98
1:P:206:LYS:HD2	1:P:217:THR:HG23	1.41	0.98
1:D:726:VAL:HG12	1:D:785:GLU:HG2	0.98	0.98
1:G:612:GLN:HE22	1:G:627:GLY:CA	1.75	0.98
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.98
1:G:795:ARG:CA	3:I:118:MET:HE1	1.93	0.98
1:J:537:GLU:C	4:W:349:LEU:CD1	2.20	0.98
1:M:783:LEU:HA	1:M:786:ILE:HG13	1.17	0.98
1:P:576:GLU:HG2	1:P:577:ALA:H	0.85	0.98
4:2:287:ILE:HD13	4:4:203:THR:HB	1.42	0.98
4:7:286:ASP:OD1	4:9:203:THR:HG22	1.62	0.98
1:A:508:ILE:HD13	1:A:759:ALA:HB1	1.19	0.98
2:B:121:LEU:CB	2:B:128:PHE:HB3	1.69	0.98
1:D:642:LYS:HD2	4:9:24:ASP:O	1.64	0.98
1:D:797:PHE:HE1	3:F:146:ILE:HA	0.82	0.98
2:E:163:ALA:HA	2:K:21:GLU:HB3	1.46	0.98
1:G:530:MET:CE	4:V:354:GLN:CG	2.39	0.98
1:P:215:GLN:CA	1:P:340:ILE:HG23	1.92	0.98
1:P:641:LYS:HG3	1:P:647:GLN:NE2	1.58	0.98
2:Q:150:TYR:O	2:Q:151:LYS:CB	2.07	0.98
4:X:324:THR:CB	4:Z:245:GLY:C	2.30	0.98
1:J:639:GLY:N	4:W:345:ILE:N	1.94	0.98
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	1.98	0.98
1:M:34:ALA:HB3	1:M:777:GLU:CD	1.86	0.98
1:P:727:LEU:HG	1:P:779:ARG:HH21	1.26	0.98
1:P:831:TRP:CH2	2:Q:47:LEU:HD21	1.78	0.98
3:R:52:ASN:HB2	3:R:53:PRO:HD3	1.46	0.98
1:A:215:GLN:H	1:A:340:ILE:CG1	1.73	0.98
1:A:792:ALA:HB2	3:C:42:THR:HG22	0.98	0.98
1:P:537:GLU:C	4:0:349:LEU:CD1	2.20	0.98
2:Q:130:PRO:O	2:Q:133:ILE:N	1.96	0.98
4:0:244:ASP:N	4:Y:291:LYS:CE	0.85	0.98
4:1:324:THR:OG1	4:3:244:ASP:CA	2.12	0.98
4:2:322:PRO:CB	4:4:244:ASP:CG	2.37	0.98
1:A:206:LYS:CD	1:A:217:THR:CG2	2.16	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:709:LYS:C	1:A:710:GLY:HA3	1.89	0.97
1:A:753:VAL:CG1	1:A:775:LEU:HG	1.92	0.97
1:D:218:LEU:CA	1:D:221:GLN:CG	2.42	0.97
1:G:788:THR:O	3:I:42:THR:CG2	2.11	0.97
1:G:789:ALA:HB1	3:I:81:GLN:NE2	1.78	0.97
1:M:639:GLY:CA	4:Z:345:ILE:CA	2.40	0.97
1:M:649:VAL:CG1	1:M:649:VAL:HG22	1.92	0.97
4:V:325:MET:CE	4:X:244:ASP:CG	2.37	0.97
1:D:576:GLU:CG	1:D:577:ALA:H	1.75	0.97
2:E:139:ALA:O	2:E:141:PRO:HD3	1.62	0.97
2:E:149:ASP:CG	2:E:150:TYR:H	1.73	0.97
1:G:813:ILE:HG23	2:H:128:PHE:CE1	1.93	0.97
1:J:800:ARG:NH2	3:L:40:ASN:CG	2.21	0.97
1:M:795:ARG:CD	3:O:43:ASN:OD1	2.10	0.97
1:P:576:GLU:CG	1:P:577:ALA:H	1.75	0.97
2:Q:139:ALA:O	2:Q:141:PRO:HD3	1.62	0.97
1:A:505:MLY:HG3	1:A:741:LYS:HZ2	1.18	0.97
1:A:831:TRP:HZ2	2:B:47:LEU:HA	1.29	0.97
2:E:121:LEU:HG	2:E:128:PHE:CA	1.59	0.97
1:G:820:VAL:HG11	2:H:136:MET:CE	1.94	0.97
2:H:121:LEU:HG	2:H:128:PHE:HA	1.47	0.97
1:J:831:TRP:CZ3	2:K:34:ILE:HD13	1.98	0.97
1:M:797:PHE:HD1	3:O:149:VAL:CG1	1.75	0.97
1:P:542:PHE:CG	4:0:143:TYR:CE1	2.53	0.97
4:3:287:ILE:HD13	4:5:203:THR:CB	1.92	0.97
4:8:287:ILE:HB	4:V:204:ALA:H	1.25	0.97
1:A:174:SER:HB3	1:A:667:THR:HG21	1.44	0.97
2:B:117:LEU:HD13	2:B:147:ASN:OD1	1.64	0.97
1:D:727:LEU:HD12	1:D:782:MLY:NZ	1.77	0.97
2:H:130:PRO:O	2:H:133:ILE:N	1.96	0.97
1:J:84:MLY:HH23	1:J:720:PHE:HA	1.47	0.97
3:L:46:ILE:O	3:L:50:LEU:HG	1.64	0.97
1:M:215:GLN:H	1:M:340:ILE:CG1	1.72	0.97
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
1:J:829:TRP:HZ2	2:K:83:MET:HE3	1.20	0.97
1:J:829:TRP:CE3	2:K:87:LYS:NZ	2.31	0.97
2:Q:144:VAL:HG13	2:Q:153:ILE:HG12	1.14	0.97
4:2:324:THR:HG21	4:4:244:ASP:O	1.60	0.97
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	0.97
1:D:549:SER:C	4:W:46:GLY:HA3	1.90	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:SER:HB3	1:G:667:THR:HG21	1.44	0.97
1:G:218:LEU:CA	1:G:221:GLN:CG	2.42	0.97
1:G:641:LYS:HG3	1:G:647:GLN:NE2	1.58	0.97
1:J:576:GLU:HG2	1:J:577:ALA:H	0.85	0.97
1:J:642:LYS:HG2	4:W:21:PHE:O	1.65	0.97
2:K:139:ALA:O	2:K:141:PRO:HD3	1.62	0.97
1:M:174:SER:HB3	1:M:667:THR:HG21	1.44	0.97
1:M:642:LYS:HG2	4:Z:21:PHE:O	1.65	0.97
4:7:322:PRO:HB3	4:9:244:ASP:OD2	1.62	0.97
2:B:150:TYR:O	2:B:151:LYS:HG3	1.65	0.97
1:D:215:GLN:H	1:D:340:ILE:CG1	1.73	0.97
1:D:508:ILE:CG1	1:D:766:PHE:CE1	2.46	0.97
1:D:736:GLN:CA	1:D:743:ALA:HB2	1.95	0.97
2:E:149:ASP:OD2	2:E:150:TYR:O	1.80	0.97
1:G:754:ASP:N	1:G:779:ARG:HD3	1.79	0.97
1:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.97
1:J:576:GLU:CG	1:J:577:ALA:H	1.75	0.97
1:J:642:LYS:HD2	4:W:24:ASP:O	1.64	0.97
1:J:649:VAL:CG2	1:J:649:VAL:CA	2.42	0.97
1:M:545:ALA:HA	4:1:45:VAL:HG11	1.45	0.97
1:M:795:ARG:HD2	3:O:43:ASN:OD1	1.64	0.97
2:N:141:PRO:HB2	2:N:142:PRO:HD2	1.44	0.97
1:P:785:GLU:O	1:P:786:ILE:N	1.97	0.97
1:A:800:ARG:NH2	3:C:40:ASN:ND2	2.10	0.97
1:M:646:PHE:HE2	1:M:652:LEU:HD21	1.24	0.97
1:M:649:VAL:CG2	1:M:649:VAL:CA	2.43	0.97
1:P:795:ARG:HB3	3:R:35:ARG:HH22	1.21	0.97
4:1:244:ASP:C	4:Z:324:THR:HG23	1.86	0.97
4:X:291:LYS:CB	4:Z:244:ASP:CB	2.25	0.97
1:G:553:MLY:CE	4:X:45:VAL:HB	1.91	0.97
1:J:768:MLY:CH1	1:J:772:LEU:HD12	1.95	0.97
1:M:206:LYS:CD	1:M:217:THR:CG2	2.16	0.97
3:O:52:ASN:HB2	3:O:53:PRO:HD3	1.46	0.97
1:P:534:SER:O	4:0:351:THR:HA	1.59	0.97
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.62	0.97
1:D:649:VAL:CG2	1:D:649:VAL:CA	2.42	0.97
2:E:141:PRO:HB2	2:E:142:PRO:HD2	1.44	0.97
1:G:754:ASP:HB2	1:G:776:GLU:HA	1.43	0.97
1:G:795:ARG:HE	3:I:116:GLU:HB3	0.80	0.97
1:P:530:MET:CE	4:0:354:GLN:CG	2.40	0.97
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:HG2	4:V:21:PHE:O	1.65	0.96
1:J:218:LEU:CA	1:J:221:GLN:CG	2.42	0.96
1:P:218:LEU:CA	1:P:221:GLN:CG	2.42	0.96
1:P:649:VAL:CG2	1:P:649:VAL:CA	2.42	0.96
1:A:502:GLU:HG3	1:A:760:PHE:C	1.89	0.96
1:A:549:SER:C	4:V:46:GLY:HA3	1.90	0.96
1:D:542:PHE:CG	4:9:143:TYR:CE1	2.52	0.96
3:I:46:ILE:O	3:I:50:LEU:HG	1.64	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:M:836:PHE:HE1	2:N:159:HIS:HA	1.19	0.96
4:1:287:ILE:CG1	4:3:202:THR:HA	1.93	0.96
1:A:93:MET:CE	1:A:715:VAL:HG13	1.95	0.96
1:A:642:LYS:HD2	4:8:24:ASP:O	1.64	0.96
2:B:144:VAL:HG13	2:B:153:ILE:HD11	1.22	0.96
1:D:553:MLY:HB3	4:W:46:GLY:HA2	1.47	0.96
1:D:727:LEU:HG	1:D:782:MLY:HG3	1.47	0.96
1:G:537:GLU:C	4:V:349:LEU:CD1	2.21	0.96
1:G:637:LYS:NZ	4:V:141:SER:O	1.99	0.96
1:J:553:MLY:HE3	4:Y:45:VAL:HG11	1.47	0.96
1:J:710:GLY:HA2	1:J:772:LEU:HD21	1.46	0.96
1:J:735:GLY:C	1:J:743:ALA:HA	1.90	0.96
1:M:542:PHE:CG	4:Z:143:TYR:CE1	2.53	0.96
1:M:635:GLY:HA3	4:Z:334:GLU:HG2	1.47	0.96
1:M:735:GLY:C	1:M:743:ALA:HA	1.90	0.96
3:O:46:ILE:O	3:O:50:LEU:HG	1.64	0.96
1:P:817:GLN:HG2	2:Q:127:ARG:HB2	1.47	0.96
1:P:819:ASN:CG	2:Q:90:GLY:O	2.07	0.96
4:1:287:ILE:CG2	4:3:204:ALA:H	1.78	0.96
4:3:322:PRO:HB2	4:5:244:ASP:CB	1.95	0.96
1:A:538:GLU:N	4:8:349:LEU:CD1	2.28	0.96
3:C:52:ASN:HB2	3:C:53:PRO:HD3	1.45	0.96
1:G:642:LYS:HD2	4:V:24:ASP:O	1.64	0.96
1:G:649:VAL:CG2	1:G:649:VAL:CA	2.43	0.96
1:G:757:GLN:OE1	1:G:772:LEU:O	1.83	0.96
1:M:642:LYS:HD2	4:Z:24:ASP:O	1.65	0.96
1:P:639:GLY:CA	4:0:345:ILE:CA	2.40	0.96
1:P:649:VAL:CG1	1:P:649:VAL:C	2.38	0.96
1:A:534:SER:O	4:8:351:THR:HG23	1.13	0.96
1:D:838:ILE:HD13	2:E:54:MET:HE1	1.43	0.96
2:H:141:PRO:HB2	2:H:142:PRO:HD2	1.44	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:121:LEU:HG	2:K:128:PHE:HA	1.47	0.96
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.46	0.96
2:N:150:TYR:O	2:N:151:LYS:HG3	1.65	0.96
2:Q:117:LEU:HD13	2:Q:147:ASN:OD1	1.64	0.96
1:A:149:GLN:HB3	1:A:718:ALA:C	1.89	0.96
1:A:800:ARG:CD	3:C:149:VAL:C	2.38	0.96
1:D:642:LYS:HG2	4:9:21:PHE:O	1.65	0.96
1:G:791:GLN:HE21	3:I:115:GLY:HA3	1.26	0.96
1:J:543:PRO:CG	4:W:143:TYR:O	2.14	0.96
2:K:121:LEU:HG	2:K:128:PHE:CA	1.59	0.96
2:N:144:VAL:HG13	2:N:153:ILE:HG12	1.14	0.96
4:3:288:ASP:H	4:5:203:THR:HG22	1.29	0.96
4:3:324:THR:HG23	4:5:244:ASP:C	1.86	0.96
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.43	0.96
1:A:735:GLY:C	1:A:743:ALA:HA	1.91	0.96
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	0.96
1:J:542:PHE:CG	4:W:143:TYR:CE1	2.53	0.96
1:P:552:ASN:ND2	4:2:49:GLN:HB3	1.73	0.96
1:P:735:GLY:C	1:P:743:ALA:HA	1.90	0.96
1:A:753:VAL:HG12	1:A:775:LEU:HG	0.96	0.96
1:D:292:MET:HE1	1:D:309:PRO:HA	1.47	0.96
1:M:576:GLU:HG2	1:M:577:ALA:N	1.66	0.96
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.96
1:A:797:PHE:CZ	3:C:146:ILE:HD12	1.91	0.96
1:D:725:ARG:CA	1:D:782:MLY:CH2	2.41	0.96
1:G:635:GLY:HA3	4:V:334:GLU:HG2	1.47	0.96
4:0:199:SER:O	4:Y:287:ILE:HG21	1.65	0.96
4:8:288:ASP:HA	4:V:204:ALA:HB2	1.48	0.96
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.64	0.96
1:A:834:LEU:HD22	2:B:54:MET:HE3	1.48	0.96
1:D:538:GLU:N	4:9:349:LEU:CD1	2.28	0.96
1:D:813:ILE:HG23	2:E:128:PHE:CE1	2.00	0.96
1:D:823:PHE:CD1	2:E:160:GLY:CA	2.48	0.96
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	0.96
1:G:820:VAL:CG1	2:H:136:MET:HE1	1.96	0.96
2:H:117:LEU:HD13	2:H:147:ASN:OD1	1.64	0.96
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	0.96
1:M:630:ALA:O	4:Z:25:ASP:CG	2.09	0.96
1:M:782:MLY:O	1:M:786:ILE:HG12	1.65	0.96
1:A:649:VAL:CG2	1:A:649:VAL:CA	2.43	0.95
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:130:PRO:O	2:E:133:ILE:N	1.96	0.95
1:J:557:GLU:HA	4:Y:47:MET:HA	1.04	0.95
1:J:639:GLY:CA	4:W:345:ILE:CA	2.40	0.95
1:J:710:GLY:C	1:J:772:LEU:CD2	2.37	0.95
2:K:150:TYR:O	2:K:151:LYS:HG3	1.65	0.95
1:P:543:PRO:CG	4:0:143:TYR:O	2.14	0.95
1:P:637:LYS:NZ	4:0:141:SER:O	1.98	0.95
4:0:112:PRO:HB3	4:1:196:ARG:HA	0.99	0.95
4:2:288:ASP:N	4:4:203:THR:HG22	1.80	0.95
4:W:325:MET:HE1	4:Y:244:ASP:CG	1.91	0.95
1:A:537:GLU:C	4:8:349:LEU:CD1	2.20	0.95
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.95
3:C:46:ILE:O	3:C:50:LEU:HG	1.65	0.95
1:G:649:VAL:CG1	1:G:649:VAL:CG2	2.44	0.95
1:M:95:THR:HA	1:M:713:SER:HB3	1.48	0.95
1:M:213:LYS:HA	1:M:220:ASP:CG	1.90	0.95
1:M:530:MET:CE	4:Z:354:GLN:CG	2.41	0.95
2:N:117:LEU:HD12	2:N:147:ASN:HB3	1.40	0.95
1:P:506:GLU:OE1	1:P:760:PHE:O	1.83	0.95
1:P:639:GLY:N	4:0:345:ILE:N	1.94	0.95
4:1:203:THR:HG22	4:Z:288:ASP:H	1.29	0.95
4:9:322:PRO:HB3	4:W:244:ASP:OD2	1.62	0.95
1:D:800:ARG:HH22	3:F:40:ASN:ND2	1.63	0.95
1:J:28:GLN:CD	1:J:723:ARG:HH11	1.67	0.95
1:J:505:MLY:HD2	1:J:762:HIS:ND1	1.81	0.95
1:J:649:VAL:CG1	1:J:649:VAL:CG2	2.43	0.95
1:M:410:ASN:OD1	4:Z:334:GLU:C	2.10	0.95
2:N:121:LEU:HG	2:N:128:PHE:HA	1.47	0.95
4:7:288:ASP:HA	4:9:204:ALA:HB2	1.48	0.95
4:9:288:ASP:HA	4:W:204:ALA:HB2	1.48	0.95
1:A:93:MET:CE	1:A:716:LEU:H	1.80	0.95
1:D:206:LYS:CD	1:D:217:THR:CG2	2.16	0.95
1:D:649:VAL:CG1	1:D:649:VAL:C	2.38	0.95
3:F:46:ILE:O	3:F:50:LEU:HG	1.65	0.95
1:G:538:GLU:N	4:V:349:LEU:CD1	2.29	0.95
1:G:817:GLN:HG2	2:H:127:ARG:HB3	1.45	0.95
1:M:538:GLU:N	4:Z:349:LEU:CD1	2.28	0.95
1:M:637:LYS:NZ	4:Z:141:SER:O	1.99	0.95
1:P:213:LYS:HA	1:P:220:ASP:CG	1.90	0.95
4:1:203:THR:CB	4:Z:287:ILE:HD13	1.92	0.95
1:G:206:LYS:CD	1:G:217:THR:CG2	2.16	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:542:PHE:CG	4:V:143:TYR:CE1	2.53	0.95
1:G:797:PHE:CE1	3:I:146:ILE:HG23	2.01	0.95
1:M:538:GLU:HG3	4:Z:352:PHE:N	1.81	0.95
1:P:642:LYS:HD2	4:0:24:ASP:O	1.65	0.95
1:P:831:TRP:CZ2	2:Q:47:LEU:CD2	2.49	0.95
1:A:791:GLN:HE22	3:C:115:GLY:CA	1.79	0.95
1:D:639:GLY:CA	4:9:345:ILE:CA	2.41	0.95
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.95
1:G:530:MET:HA	4:V:354:GLN:HG3	0.97	0.95
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.95
1:G:819:ASN:CG	2:H:92:ASP:CB	2.37	0.95
2:K:117:LEU:HD13	2:K:147:ASN:OD1	1.64	0.95
1:M:641:LYS:HE3	4:Z:348:SER:O	1.55	0.95
1:M:649:VAL:CG1	1:M:649:VAL:CG2	2.43	0.95
1:A:831:TRP:CH2	2:B:50:THR:HG21	2.02	0.95
1:M:795:ARG:HB3	3:O:35:ARG:HH22	1.14	0.95
1:P:649:VAL:CG1	1:P:649:VAL:CG2	2.43	0.95
4:1:322:PRO:CB	4:3:244:ASP:CB	2.44	0.95
1:A:505:MLY:CB	1:A:762:HIS:CD2	2.09	0.95
1:A:541:MET:N	4:8:349:LEU:HD21	1.80	0.95
1:A:831:TRP:CZ3	2:B:34:ILE:CG1	2.49	0.95
1:D:635:GLY:HA3	4:9:334:GLU:HG2	1.47	0.95
2:E:117:LEU:HD13	2:E:147:ASN:OD1	1.64	0.95
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.95
1:G:292:MET:HE1	1:G:309:PRO:HA	1.47	0.95
1:G:546:THR:HG22	1:G:548:THR:H	1.32	0.95
1:G:752:ASP:O	1:G:780:ASP:CA	2.13	0.95
1:M:831:TRP:HE1	2:N:67:MET:HB3	1.31	0.95
1:P:642:LYS:HG2	4:0:21:PHE:O	1.65	0.95
1:A:637:LYS:NZ	4:8:141:SER:O	1.99	0.95
1:A:752:ASP:OD2	1:A:782:MLY:CD	2.14	0.95
1:J:538:GLU:N	4:W:349:LEU:CD1	2.28	0.95
1:J:649:VAL:CG1	1:J:649:VAL:C	2.38	0.95
1:M:553:MLY:HE2	4:1:43:VAL:HG21	1.30	0.95
1:M:649:VAL:CG1	1:M:649:VAL:C	2.38	0.95
4:2:324:THR:HB	4:4:243:PRO:O	1.14	0.95
1:A:543:PRO:CG	4:8:143:TYR:O	2.14	0.95
1:A:635:GLY:HA3	4:8:334:GLU:HG2	1.47	0.95
2:B:121:LEU:HG	2:B:128:PHE:HA	1.46	0.95
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	0.95
2:H:150:TYR:O	2:H:151:LYS:HG3	1.65	0.95

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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	0.95
1:M:292:MET:HE1	1:M:309:PRO:HA	1.48	0.95
1:P:635:GLY:HA3	4:0:334:GLU:HG2	1.47	0.95
4:1:244:ASP:CB	4:Z:322:PRO:HB2	1.95	0.95
4:X:324:THR:HG1	4:Z:246:GLN:HA	1.21	0.95
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	0.94
1:D:215:GLN:HA	1:D:340:ILE:HG23	0.95	0.94
1:D:543:PRO:CG	4:9:143:TYR:O	2.14	0.94
1:D:637:LYS:NZ	4:9:141:SER:O	1.99	0.94
1:D:726:VAL:CG1	1:D:785:GLU:HG2	1.94	0.94
1:D:732:ILE:CG2	1:D:782:MLY:HH21	1.88	0.94
1:J:292:MET:HE1	1:J:309:PRO:HA	1.48	0.94
1:J:635:GLY:HA3	4:W:334:GLU:HG2	1.47	0.94
1:J:637:LYS:NZ	4:W:141:SER:O	1.98	0.94
1:J:783:LEU:O	1:J:787:ILE:N	1.99	0.94
2:K:150:TYR:O	2:K:151:LYS:CG	2.15	0.94
1:M:548:THR:O	4:1:47:MET:CG	2.13	0.94
1:P:292:MET:HE1	1:P:309:PRO:HA	1.47	0.94
1:P:538:GLU:HG3	4:0:352:PHE:N	1.81	0.94
1:P:642:LYS:CG	4:0:23:GLY:H	1.77	0.94
2:Q:149:ASP:CG	2:Q:150:TYR:H	1.73	0.94
3:R:46:ILE:O	3:R:50:LEU:HG	1.64	0.94
4:0:112:PRO:CB	4:1:196:ARG:HA	1.87	0.94
1:A:410:ASN:OD1	4:8:334:GLU:C	2.10	0.94
1:A:530:MET:HA	4:8:354:GLN:HG3	0.96	0.94
1:D:818:TYR:HB3	2:E:90:GLY:N	1.80	0.94
2:E:150:TYR:O	2:E:151:LYS:CG	2.15	0.94
1:G:818:TYR:CZ	2:H:127:ARG:CZ	2.50	0.94
1:J:538:GLU:HG3	4:W:352:PHE:N	1.81	0.94
1:P:410:ASN:OD1	4:0:334:GLU:C	2.10	0.94
1:P:630:ALA:O	4:0:25:ASP:CG	2.09	0.94
1:D:838:ILE:CD1	2:E:54:MET:HE1	1.96	0.94
2:E:150:TYR:O	2:E:151:LYS:HB2	1.67	0.94
2:H:150:TYR:O	2:H:151:LYS:HB2	1.67	0.94
1:J:797:PHE:CE1	3:L:146:ILE:CA	2.48	0.94
1:J:836:PHE:CZ	2:K:160:GLY:N	2.35	0.94
1:M:95:THR:HA	1:M:713:SER:CB	1.96	0.94
1:M:149:GLN:OE1	1:M:763:THR:HG21	1.68	0.94
1:M:831:TRP:HH2	2:N:47:LEU:HD23	1.32	0.94
4:0:288:ASP:CB	4:2:63:GLY:H	1.80	0.94
4:2:324:THR:CG2	4:4:244:ASP:O	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:HG3	4:8:352:PHE:N	1.82	0.94
2:B:149:ASP:CG	2:B:150:TYR:H	1.73	0.94
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.94
1:G:642:LYS:CG	4:V:23:GLY:H	1.76	0.94
1:G:795:ARG:HH21	3:I:116:GLU:CG	1.80	0.94
1:P:538:GLU:N	4:0:349:LEU:CD1	2.28	0.94
4:0:166:TYR:OH	4:2:64:ILE:CG2	2.15	0.94
1:A:530:MET:CA	4:8:354:GLN:CG	2.44	0.94
1:A:736:GLN:CA	1:A:743:ALA:HB2	1.95	0.94
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	0.94
1:D:724:TYR:CB	1:D:782:MLY:CD	2.42	0.94
1:G:218:LEU:CB	1:G:221:GLN:CG	2.46	0.94
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.94
1:P:530:MET:HA	4:0:354:GLN:HG3	0.96	0.94
1:P:546:THR:HG22	1:P:548:THR:H	1.32	0.94
2:Q:150:TYR:O	2:Q:151:LYS:CG	2.16	0.94
1:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.94
1:P:831:TRP:HE1	2:Q:67:MET:HB3	1.30	0.94
1:A:795:ARG:HH21	3:C:116:GLU:CB	1.79	0.94
1:A:818:TYR:CB	2:B:90:GLY:HA3	1.97	0.94
1:G:813:ILE:CG2	2:H:128:PHE:HE1	1.72	0.94
1:J:84:MLY:CH1	1:J:720:PHE:HD1	1.76	0.94
1:M:218:LEU:CB	1:M:221:GLN:CG	2.46	0.94
1:M:543:PRO:CG	4:Z:143:TYR:O	2.14	0.94
2:N:117:LEU:HD13	2:N:147:ASN:OD1	1.63	0.94
1:P:612:GLN:NE2	1:P:627:GLY:CA	2.31	0.94
1:A:149:GLN:CB	1:A:719:ASP:N	2.31	0.94
1:A:218:LEU:CB	1:A:221:GLN:CG	2.46	0.94
1:A:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.94
1:A:642:LYS:CG	4:8:23:GLY:H	1.77	0.94
1:A:795:ARG:CG	3:C:118:MET:HE1	1.97	0.94
1:A:818:TYR:HB3	2:B:90:GLY:N	1.82	0.94
1:D:530:MET:HA	4:9:354:GLN:HG3	0.96	0.94
1:D:541:MET:N	4:9:349:LEU:HD21	1.80	0.94
1:J:530:MET:HA	4:W:354:GLN:HG3	0.96	0.94
1:J:612:GLN:NE2	1:J:627:GLY:CA	2.31	0.94
1:J:630:ALA:O	4:W:25:ASP:CG	2.09	0.94
1:M:215:GLN:HA	1:M:340:ILE:HG23	0.95	0.94
1:M:797:PHE:CD1	3:O:149:VAL:HG12	1.96	0.94
2:N:150:TYR:O	2:N:151:LYS:CG	2.15	0.94
1:P:503:TYR:CE1	1:P:711:PHE:CD2	2.55	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:612:GLN:NE2	1:P:627:GLY:HA3	1.83	0.94
4:3:322:PRO:HB2	4:5:244:ASP:HB3	1.49	0.94
4:X:324:THR:HG22	4:Z:247:VAL:HG22	0.96	0.94
1:D:538:GLU:HG3	4:9:352:PHE:N	1.82	0.94
1:D:546:THR:HG22	1:D:548:THR:H	1.32	0.94
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.94
1:M:800:ARG:HB3	3:O:149:VAL:CG2	1.97	0.94
1:P:797:PHE:CE1	3:R:149:VAL:HG12	2.02	0.94
2:Q:150:TYR:O	2:Q:151:LYS:HG3	1.65	0.94
1:A:739:ASP:HB3	1:A:742:LYS:CB	1.98	0.94
2:E:121:LEU:HG	2:E:128:PHE:HA	1.47	0.94
1:G:508:ILE:HD11	1:G:759:ALA:CB	1.96	0.94
1:G:567:LYS:HZ1	4:X:92:ASN:HD22	1.11	0.94
1:G:832:MET:SD	2:H:84:PHE:CE2	2.61	0.94
1:M:84:MLY:CD	1:M:723:ARG:HD2	1.97	0.94
1:M:612:GLN:NE2	1:M:627:GLY:HA3	1.83	0.94
1:A:502:GLU:OE1	1:A:763:THR:N	2.00	0.93
1:G:543:PRO:CG	4:V:143:TYR:O	2.15	0.93
1:J:612:GLN:NE2	1:J:627:GLY:HA3	1.83	0.93
1:M:506:GLU:CD	1:M:760:PHE:O	2.11	0.93
1:M:641:LYS:HG3	1:M:647:GLN:NE2	1.59	0.93
1:P:530:MET:CA	4:0:354:GLN:CG	2.44	0.93
1:A:292:MET:HE1	1:A:309:PRO:HA	1.47	0.93
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	0.93
1:D:727:LEU:CG	1:D:782:MLY:HE2	1.97	0.93
1:D:831:TRP:CZ2	2:E:47:LEU:HA	2.03	0.93
1:G:789:ALA:CB	3:I:81:GLN:CD	2.41	0.93
2:H:121:LEU:CB	2:H:128:PHE:HB3	1.69	0.93
2:Q:150:TYR:O	2:Q:151:LYS:HB2	1.67	0.93
1:D:736:GLN:HA	1:D:743:ALA:HB2	1.51	0.93
1:J:736:GLN:HA	1:J:743:ALA:HB2	1.51	0.93
1:M:530:MET:HA	4:Z:354:GLN:HG3	0.96	0.93
1:P:149:GLN:CG	1:P:716:LEU:HD11	1.98	0.93
4:1:244:ASP:HB3	4:Z:322:PRO:HB2	1.49	0.93
4:1:322:PRO:HB3	4:3:244:ASP:CG	1.93	0.93
4:X:286:ASP:OD1	4:Z:202:THR:CB	2.14	0.93
1:A:553:MLY:HB3	4:V:46:GLY:HA2	1.47	0.93
1:G:90:ASP:OD2	1:G:764:MLY:HH11	1.66	0.93
1:G:612:GLN:NE2	1:G:627:GLY:HA3	1.83	0.93
1:G:736:GLN:CA	1:G:743:ALA:HB2	1.95	0.93
1:J:736:GLN:CA	1:J:743:ALA:HB2	1.95	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:629:GLU:CB	1:M:643:GLY:O	2.17	0.93
2:Q:121:LEU:HG	2:Q:128:PHE:HA	1.47	0.93
1:A:93:MET:HE2	1:A:715:VAL:CB	1.98	0.93
1:A:630:ALA:O	4:8:25:ASP:CG	2.10	0.93
1:G:541:MET:N	4:V:349:LEU:HD21	1.80	0.93
1:J:797:PHE:CE1	3:L:146:ILE:HA	2.02	0.93
1:P:215:GLN:H	1:P:340:ILE:CG1	1.72	0.93
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.98	0.93
1:D:813:ILE:HD13	2:E:128:PHE:HE1	1.12	0.93
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.56	0.93
1:G:795:ARG:HB3	3:I:35:ARG:HH22	1.31	0.93
1:J:530:MET:CA	4:W:354:GLN:CG	2.44	0.93
1:J:792:ALA:HB2	3:L:42:THR:HG23	0.96	0.93
1:M:84:MLY:CB	1:M:723:ARG:CD	2.38	0.93
1:M:642:LYS:CB	4:Z:21:PHE:O	2.17	0.93
4:0:167:GLU:OE1	4:2:42:GLY:HA2	1.69	0.93
1:G:503:TYR:CE1	1:G:711:PHE:HE2	1.83	0.93
4:1:288:ASP:N	4:3:203:THR:HG22	1.82	0.93
1:D:639:GLY:N	4:9:345:ILE:N	1.94	0.93
1:G:553:MLY:HH12	4:X:45:VAL:HG21	1.46	0.93
1:G:797:PHE:CD1	3:I:146:ILE:HG23	2.04	0.93
1:G:830:PRO:CB	2:H:67:MET:CE	2.46	0.93
1:A:707:CYS:SG	1:A:714:ARG:NH1	2.41	0.93
2:E:150:TYR:O	2:E:151:LYS:HG3	1.65	0.93
1:J:538:GLU:N	4:W:351:THR:H	1.67	0.93
1:J:788:THR:O	3:L:42:THR:HG21	1.67	0.93
1:P:648:THR:HG21	1:P:651:ALA:HB2	1.50	0.93
1:P:729:ALA:CA	3:R:93:VAL:CG2	2.44	0.93
4:0:288:ASP:CG	4:2:63:GLY:CA	2.42	0.93
4:X:291:LYS:HD2	4:Z:243:PRO:CB	1.98	0.93
1:A:95:THR:OG1	1:A:769:ALA:C	2.12	0.93
1:G:215:GLN:HA	1:G:340:ILE:HG23	0.95	0.93
1:A:629:GLU:CB	1:A:643:GLY:O	2.17	0.92
1:A:818:TYR:HB2	2:B:90:GLY:N	1.83	0.92
2:B:150:TYR:O	2:B:151:LYS:HB2	1.67	0.92
1:D:508:ILE:HD13	1:D:766:PHE:CZ	2.01	0.92
1:D:557:GLU:H	4:W:48:GLY:HA2	1.32	0.92
1:G:796:GLY:N	3:I:35:ARG:CZ	2.33	0.92
1:M:530:MET:CA	4:Z:354:GLN:CG	2.44	0.92
1:M:736:GLN:CA	1:M:743:ALA:HB2	1.95	0.92
1:M:817:GLN:CD	2:N:127:ARG:CD	2.35	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:838:ILE:HD11	2:N:54:MET:HE1	1.50	0.92
1:P:642:LYS:CB	4:0:21:PHE:O	2.17	0.92
4:X:324:THR:CG2	4:Z:247:VAL:N	1.92	0.92
1:A:648:THR:HG21	1:A:651:ALA:HB2	1.50	0.92
2:B:54:MET:CA	2:H:21:GLU:OE1	2.17	0.92
1:G:92:ALA:O	1:G:714:ARG:HG2	1.68	0.92
1:G:612:GLN:NE2	1:G:627:GLY:CA	2.31	0.92
1:G:739:ASP:HB3	1:G:742:LYS:CB	1.99	0.92
1:J:546:THR:HG22	1:J:548:THR:H	1.32	0.92
1:M:612:GLN:NE2	1:M:627:GLY:CA	2.31	0.92
1:P:218:LEU:CB	1:P:221:GLN:CG	2.46	0.92
4:V:286:ASP:OD2	4:X:203:THR:HG22	1.69	0.92
1:A:546:THR:HG22	1:A:548:THR:H	1.32	0.92
1:A:612:GLN:NE2	1:A:627:GLY:CA	2.31	0.92
1:A:641:LYS:HE3	1:A:647:GLN:CG	2.00	0.92
1:A:642:LYS:CB	4:8:21:PHE:O	2.17	0.92
1:A:795:ARG:NH2	3:C:116:GLU:CG	2.33	0.92
1:D:612:GLN:NE2	1:D:627:GLY:HA3	1.83	0.92
1:D:727:LEU:HB2	1:D:782:MLY:HH12	1.13	0.92
1:D:735:GLY:C	1:D:743:ALA:HB2	1.82	0.92
1:G:148:ARG:HH21	1:G:764:MLY:HH21	1.33	0.92
1:G:530:MET:CA	4:V:354:GLN:CG	2.45	0.92
1:G:817:GLN:CG	2:H:127:ARG:CB	2.46	0.92
1:G:838:ILE:HD11	2:H:54:MET:HE1	1.49	0.92
1:J:215:GLN:HA	1:J:340:ILE:HG23	0.95	0.92
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.92
1:M:638:GLY:HA3	4:Z:341:ILE:O	1.70	0.92
2:N:121:LEU:CB	2:N:128:PHE:HB3	1.68	0.92
4:1:287:ILE:CD1	4:3:203:THR:HB	1.98	0.92
2:B:150:TYR:O	2:B:151:LYS:CG	2.15	0.92
1:D:612:GLN:NE2	1:D:627:GLY:CA	2.31	0.92
1:G:629:GLU:CB	1:G:643:GLY:O	2.17	0.92
1:G:642:LYS:CB	4:V:21:PHE:O	2.17	0.92
1:G:757:GLN:OE1	1:G:772:LEU:CA	2.18	0.92
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.41	0.92
1:J:206:LYS:CD	1:J:217:THR:CG2	2.16	0.92
1:J:739:ASP:HB3	1:J:742:LYS:CB	1.99	0.92
1:J:792:ALA:HB2	3:L:42:THR:HG22	1.04	0.92
1:M:739:ASP:HB3	1:M:742:LYS:CB	1.98	0.92
1:P:636:LYS:HD2	4:0:332:PRO:HB3	1.52	0.92
1:P:819:ASN:HA	2:Q:90:GLY:C	1.93	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:768:MLY:HB2	1:A:771:LEU:HB2	1.48	0.92
1:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.92
1:J:642:LYS:CB	4:W:21:PHE:O	2.17	0.92
1:M:546:THR:HG22	1:M:548:THR:H	1.32	0.92
1:P:538:GLU:N	4:0:351:THR:H	1.68	0.92
1:P:739:ASP:HB3	1:P:742:LYS:CB	1.98	0.92
1:A:215:GLN:HA	1:A:340:ILE:HG23	0.96	0.92
1:A:795:ARG:CG	3:C:35:ARG:HH12	1.83	0.92
2:B:121:LEU:CA	2:B:128:PHE:CB	2.46	0.92
1:D:278:GLN:HG2	1:D:317:GLU:HB2	1.52	0.92
1:D:629:GLU:CB	1:D:643:GLY:O	2.17	0.92
1:J:792:ALA:N	3:L:42:THR:HG22	1.84	0.92
1:M:541:MET:N	4:Z:349:LEU:HD21	1.80	0.92
1:P:785:GLU:CG	3:R:81:GLN:CG	2.47	0.92
1:P:786:ILE:CA	1:P:787:ILE:N	2.31	0.92
4:W:286:ASP:OD1	4:Y:202:THR:HB	1.69	0.92
1:D:530:MET:CA	4:9:354:GLN:CG	2.45	0.92
1:D:798:LEU:HD12	3:F:126:LEU:HD21	1.49	0.92
1:D:813:ILE:CG2	2:E:128:PHE:CZ	2.51	0.92
1:G:648:THR:HG21	1:G:651:ALA:HB2	1.50	0.92
1:G:829:TRP:CZ3	2:H:87:LYS:NZ	2.38	0.92
1:J:636:LYS:HD2	4:W:332:PRO:HB3	1.52	0.92
1:J:756:THR:HG22	1:J:776:GLU:CA	2.00	0.92
1:J:801:VAL:HG21	3:L:126:LEU:HD23	1.50	0.92
1:P:783:LEU:HA	1:P:786:ILE:CG1	2.00	0.92
1:A:149:GLN:HG3	1:A:719:ASP:OD1	1.66	0.92
1:J:629:GLU:CB	1:J:643:GLY:O	2.17	0.92
1:P:636:LYS:H	4:0:334:GLU:CD	1.78	0.92
1:P:797:PHE:HZ	3:R:146:ILE:HD13	1.34	0.92
4:1:287:ILE:CG1	4:3:202:THR:HB	2.00	0.92
1:A:557:GLU:N	4:V:48:GLY:CA	2.12	0.92
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	0.92
1:D:550:PHE:HA	4:W:46:GLY:CA	2.00	0.92
1:G:754:ASP:CA	1:G:776:GLU:OE1	2.12	0.92
1:G:769:ALA:CB	1:G:770:GLY:CA	2.45	0.92
1:J:541:MET:N	4:W:349:LEU:HD21	1.80	0.92
1:P:785:GLU:C	1:P:786:ILE:CA	2.42	0.92
1:P:797:PHE:CE1	3:R:146:ILE:CA	2.53	0.92
4:1:287:ILE:HG12	4:3:202:THR:HA	1.48	0.92
4:3:288:ASP:OD1	4:5:203:THR:HG23	1.70	0.92
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.92
1:D:813:ILE:HG21	2:E:128:PHE:CE1	2.04	0.92
1:P:629:GLU:CB	1:P:643:GLY:O	2.17	0.92
1:P:783:LEU:HA	1:P:786:ILE:HG13	1.52	0.92
1:A:818:TYR:CB	2:B:90:GLY:CA	2.48	0.91
1:D:648:THR:HG21	1:D:651:ALA:HB2	1.50	0.91
1:G:641:LYS:HE3	1:G:647:GLN:CG	2.00	0.91
1:J:537:GLU:O	4:W:349:LEU:HD13	0.73	0.91
1:J:636:LYS:H	4:W:334:GLU:CD	1.78	0.91
1:P:641:LYS:HE3	1:P:647:GLN:CG	2.00	0.91
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	0.91
1:A:636:LYS:HD2	4:8:332:PRO:HB3	1.51	0.91
1:D:218:LEU:CB	1:D:221:GLN:CG	2.46	0.91
1:D:642:LYS:CB	4:9:21:PHE:O	2.17	0.91
1:G:817:GLN:CG	2:H:127:ARG:HD2	2.00	0.91
2:H:144:VAL:HG13	2:H:153:ILE:HG12	1.14	0.91
1:J:278:GLN:HG2	1:J:317:GLU:HB2	1.52	0.91
1:M:28:GLN:HB3	1:M:723:ARG:CZ	2.00	0.91
1:M:545:ALA:CA	4:1:45:VAL:HG12	1.92	0.91
1:M:636:LYS:H	4:Z:334:GLU:CD	1.78	0.91
1:P:537:GLU:O	4:0:349:LEU:HD13	0.73	0.91
4:1:287:ILE:HB	4:3:203:THR:N	1.82	0.91
4:X:286:ASP:CG	4:Z:202:THR:HB	1.93	0.91
1:A:218:LEU:HA	1:A:221:GLN:CG	2.01	0.91
1:A:834:LEU:HD21	2:B:54:MET:SD	2.09	0.91
1:J:538:GLU:N	4:W:349:LEU:HD12	1.86	0.91
1:J:641:LYS:HE3	1:J:647:GLN:CG	2.00	0.91
1:A:505:MLY:CG	1:A:741:LYS:NZ	2.32	0.91
1:A:557:GLU:H	4:V:48:GLY:HA2	1.31	0.91
1:D:636:LYS:HD2	4:9:332:PRO:HB3	1.52	0.91
1:G:218:LEU:HA	1:G:221:GLN:CG	2.01	0.91
1:G:636:LYS:H	4:V:334:GLU:CD	1.78	0.91
1:G:757:GLN:OE1	1:G:772:LEU:C	2.12	0.91
1:J:97:LEU:HD23	1:J:712:PRO:HB3	1.51	0.91
2:N:149:ASP:CG	2:N:150:TYR:H	1.73	0.91
1:P:218:LEU:HA	1:P:221:GLN:CG	2.00	0.91
1:P:541:MET:N	4:0:349:LEU:HD21	1.80	0.91
1:P:818:TYR:CZ	2:Q:127:ARG:NH2	2.25	0.91
1:P:836:PHE:CE2	2:Q:160:GLY:N	2.39	0.91
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.96	0.91
1:G:537:GLU:O	4:V:349:LEU:HD13	0.74	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:752:ASP:C	1:G:780:ASP:OD1	2.12	0.91
1:J:218:LEU:CB	1:J:221:GLN:CG	2.46	0.91
1:J:836:PHE:CE2	2:K:160:GLY:N	2.39	0.91
3:L:62:ALA:O	3:L:63:ILE:CG1	2.19	0.91
2:Q:121:LEU:CB	2:Q:128:PHE:HB3	1.69	0.91
4:1:287:ILE:CG1	4:3:202:THR:CB	2.48	0.91
1:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.91
1:D:838:ILE:CD1	2:E:54:MET:SD	2.59	0.91
1:J:93:MET:HE1	1:J:716:LEU:HD12	1.53	0.91
2:N:150:TYR:O	2:N:151:LYS:HB2	1.67	0.91
4:0:288:ASP:CB	4:2:63:GLY:N	2.33	0.91
1:A:735:GLY:O	1:A:743:ALA:CA	2.19	0.91
1:D:538:GLU:N	4:9:351:THR:H	1.68	0.91
1:D:724:TYR:HB3	1:D:782:MLY:HD3	1.50	0.91
1:G:544:LYS:HD2	4:V:147:ARG:HB3	1.53	0.91
1:M:544:LYS:HD2	4:Z:147:ARG:HB3	1.53	0.91
1:M:736:GLN:HA	1:M:743:ALA:HB2	1.51	0.91
1:M:829:TRP:CZ2	2:N:87:LYS:HE2	2.06	0.91
1:P:795:ARG:HD3	3:R:43:ASN:OD1	1.71	0.91
1:A:93:MET:HE2	1:A:715:VAL:HA	0.92	0.91
1:A:638:GLY:HA3	4:8:341:ILE:O	1.70	0.91
1:M:537:GLU:O	4:Z:349:LEU:HD13	0.73	0.91
1:P:278:GLN:HG2	1:P:317:GLU:HB2	1.52	0.91
1:P:795:ARG:CB	3:R:35:ARG:HH12	1.83	0.91
4:V:324:THR:CG2	4:X:247:VAL:H	1.84	0.91
1:A:93:MET:SD	1:A:715:VAL:HG22	2.11	0.91
1:A:537:GLU:O	4:8:349:LEU:HD13	0.74	0.91
1:D:508:ILE:CD1	1:D:766:PHE:CE2	2.54	0.91
1:G:538:GLU:N	4:V:351:THR:H	1.68	0.91
1:J:826:VAL:HG21	2:K:88:LEU:HD23	1.49	0.91
1:J:836:PHE:HE1	2:K:159:HIS:HA	1.25	0.91
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.91
1:M:218:LEU:HA	1:M:221:GLN:CG	2.01	0.91
1:P:215:GLN:HA	1:P:340:ILE:HG23	0.95	0.91
1:P:735:GLY:O	1:P:743:ALA:CA	2.19	0.91
1:P:736:GLN:CA	1:P:743:ALA:HB2	1.95	0.91
1:A:538:GLU:N	4:8:349:LEU:HD12	1.86	0.91
1:A:538:GLU:N	4:8:351:THR:H	1.67	0.91
1:A:544:LYS:HD2	4:8:147:ARG:HB3	1.53	0.91
1:A:800:ARG:HH22	3:C:40:ASN:HD21	0.91	0.91
1:D:708:ARG:C	1:D:710:GLY:N	2.29	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:735:GLY:O	1:D:743:ALA:CA	2.19	0.91
1:J:561:LYS:HE3	4:Y:48:GLY:HA3	1.51	0.91
1:J:795:ARG:CZ	3:L:116:GLU:OE1	2.11	0.91
2:K:150:TYR:O	2:K:151:LYS:HB2	1.67	0.91
3:R:62:ALA:O	3:R:63:ILE:HG12	1.71	0.91
4:1:203:THR:HG23	4:Z:288:ASP:OD1	1.70	0.91
1:A:831:TRP:CE3	2:B:34:ILE:HG12	2.06	0.90
2:B:117:LEU:CG	2:B:147:ASN:CG	2.44	0.90
3:C:62:ALA:O	3:C:63:ILE:CG1	2.19	0.90
1:D:732:ILE:HG21	1:D:782:MLY:HH21	0.92	0.90
1:D:747:LEU:HD21	1:D:782:MLY:HH11	1.52	0.90
2:E:117:LEU:CG	2:E:147:ASN:CG	2.44	0.90
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.49	0.90
1:G:819:ASN:HA	2:H:90:GLY:C	1.96	0.90
1:M:505:MLY:HD2	1:M:762:HIS:HE1	1.36	0.90
4:X:324:THR:HG22	4:Z:247:VAL:H	1.34	0.90
1:A:550:PHE:HA	4:V:46:GLY:CA	2.00	0.90
1:A:649:VAL:CB	1:A:649:VAL:CG2	2.50	0.90
1:A:831:TRP:CH2	2:B:34:ILE:CG2	2.53	0.90
1:A:836:PHE:HZ	2:B:160:GLY:H	1.11	0.90
1:D:641:LYS:HE3	1:D:647:GLN:CG	2.00	0.90
1:D:798:LEU:CD1	3:F:126:LEU:HD21	2.01	0.90
1:G:215:GLN:H	1:G:340:ILE:CG1	1.72	0.90
1:G:278:GLN:HG2	1:G:317:GLU:HB2	1.52	0.90
1:J:735:GLY:O	1:J:743:ALA:CA	2.19	0.90
1:J:756:THR:O	1:J:776:GLU:OE1	1.88	0.90
1:J:800:ARG:NH2	3:L:40:ASN:ND2	2.18	0.90
1:J:800:ARG:HG2	3:L:149:VAL:HG22	1.51	0.90
1:M:94:MET:C	1:M:713:SER:HB3	1.96	0.90
1:M:636:LYS:HD2	4:Z:332:PRO:HB3	1.52	0.90
1:M:649:VAL:CB	1:M:649:VAL:CG2	2.49	0.90
1:D:218:LEU:HA	1:D:221:GLN:CG	2.00	0.90
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.53	0.90
1:G:817:GLN:CD	2:H:127:ARG:CB	2.44	0.90
1:J:544:LYS:HD2	4:W:147:ARG:HB3	1.53	0.90
1:M:641:LYS:HE3	1:M:647:GLN:CG	2.00	0.90
1:M:753:VAL:HG13	1:M:775:LEU:CD2	2.01	0.90
2:N:117:LEU:CG	2:N:147:ASN:CG	2.44	0.90
1:P:838:ILE:CD1	2:Q:54:MET:CE	2.26	0.90
1:A:823:PHE:HE1	2:B:160:GLY:CA	1.85	0.90
1:D:538:GLU:O	4:9:349:LEU:CG	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:649:VAL:CG2	1:D:649:VAL:HG13	2.02	0.90
2:E:137:TRP:HA	2:E:145:ALA:HB2	1.54	0.90
1:G:538:GLU:N	4:V:349:LEU:HD12	1.87	0.90
1:G:834:LEU:HD12	2:H:51:PHE:CE1	2.04	0.90
1:M:278:GLN:HG2	1:M:317:GLU:HB2	1.52	0.90
1:P:544:LYS:HD2	4:0:147:ARG:HB3	1.53	0.90
1:A:795:ARG:NH2	3:C:116:GLU:OE2	1.96	0.90
1:D:800:ARG:C	3:F:149:VAL:HG21	1.97	0.90
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.54	0.90
1:G:636:LYS:HD2	4:V:332:PRO:HB3	1.52	0.90
1:G:638:GLY:HA3	4:V:341:ILE:O	1.70	0.90
1:J:797:PHE:CE1	3:L:146:ILE:CG2	1.95	0.90
1:J:799:MET:SD	3:L:32:ASP:HB3	2.11	0.90
1:M:648:THR:HG21	1:M:651:ALA:HB2	1.50	0.90
1:M:735:GLY:O	1:M:743:ALA:CA	2.19	0.90
1:D:538:GLU:N	4:9:349:LEU:HD12	1.86	0.90
1:D:636:LYS:H	4:9:334:GLU:CD	1.77	0.90
1:D:721:LYS:CB	1:D:736:GLN:OE1	2.20	0.90
1:J:218:LEU:HA	1:J:221:GLN:CG	2.01	0.90
1:J:649:VAL:CG2	1:J:649:VAL:HG13	2.02	0.90
1:J:792:ALA:CB	3:L:42:THR:HG23	1.88	0.90
1:M:538:GLU:N	4:Z:351:THR:H	1.67	0.90
1:P:649:VAL:CG2	1:P:649:VAL:HG13	2.02	0.90
2:Q:117:LEU:CG	2:Q:147:ASN:CG	2.44	0.90
4:1:287:ILE:CD1	4:3:203:THR:N	2.34	0.90
1:A:278:GLN:HG2	1:A:317:GLU:HB2	1.52	0.90
1:D:544:LYS:HD2	4:9:147:ARG:HB3	1.53	0.90
1:G:97:LEU:HD23	1:G:712:PRO:HB3	0.90	0.90
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.90
3:I:24:LYS:HB3	3:I:63:ILE:O	1.72	0.90
1:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.90
1:M:629:GLU:HG2	1:M:643:GLY:O	1.72	0.90
1:M:817:GLN:HG2	2:N:127:ARG:CG	2.02	0.90
2:Q:137:TRP:HA	2:Q:145:ALA:HB2	1.54	0.90
4:X:325:MET:SD	4:Z:244:ASP:HB2	2.12	0.90
1:A:107:MLY:HB3	1:A:686:MET:HE2	1.54	0.90
3:C:62:ALA:O	3:C:63:ILE:HG12	1.71	0.90
1:D:534:SER:O	4:9:351:THR:HG23	1.13	0.90
1:D:638:GLY:HA3	4:9:341:ILE:O	1.70	0.90
2:E:121:LEU:CB	2:E:128:PHE:HB3	1.69	0.90
1:G:721:LYS:CB	1:G:736:GLN:OE1	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:797:PHE:HE2	3:I:126:LEU:HD22	1.10	0.90
1:J:530:MET:N	4:W:354:GLN:HB3	1.87	0.90
4:1:287:ILE:HG21	4:3:202:THR:CB	2.02	0.90
1:A:502:GLU:HA	1:A:761:GLY:C	1.95	0.90
1:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.90
3:F:62:ALA:O	3:F:63:ILE:CG1	2.19	0.90
1:G:753:VAL:CA	1:G:780:ASP:OD1	2.19	0.90
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	0.90
1:M:97:LEU:CD2	1:M:712:PRO:CB	2.50	0.90
1:M:785:GLU:C	1:M:786:ILE:CA	2.44	0.90
2:N:121:LEU:CA	2:N:128:PHE:CB	2.46	0.90
3:O:62:ALA:O	3:O:63:ILE:HG12	1.72	0.90
1:A:501:GLU:CA	1:A:762:HIS:CE1	2.55	0.90
1:D:550:PHE:CA	4:W:46:GLY:HA3	2.02	0.90
1:J:538:GLU:O	4:W:349:LEU:CG	2.20	0.90
1:M:735:GLY:C	1:M:743:ALA:HB2	1.82	0.90
1:M:805:ALA:CA	1:M:808:GLU:HB2	1.99	0.90
1:P:538:GLU:O	4:0:349:LEU:CG	2.20	0.90
1:P:635:GLY:CA	4:0:341:ILE:HD13	2.02	0.90
1:A:630:ALA:C	4:8:25:ASP:OD2	2.15	0.89
1:G:629:GLU:HG2	1:G:643:GLY:O	1.72	0.89
1:G:792:ALA:HB1	3:I:42:THR:N	1.86	0.89
2:H:117:LEU:CG	2:H:147:ASN:CG	2.45	0.89
1:J:768:MLY:CH1	1:J:772:LEU:CD1	2.32	0.89
1:J:817:GLN:HG2	2:K:127:ARG:HD2	1.55	0.89
1:M:534:SER:HA	4:Z:350:SER:O	1.71	0.89
1:P:107:MLY:HB3	1:P:686:MET:HE2	1.54	0.89
1:A:629:GLU:HG2	1:A:643:GLY:O	1.72	0.89
1:A:791:GLN:OE1	3:C:116:GLU:CG	2.19	0.89
3:C:24:LYS:HB3	3:C:63:ILE:O	1.72	0.89
1:D:649:VAL:CB	1:D:649:VAL:CG2	2.49	0.89
1:G:553:MLY:NZ	4:X:45:VAL:HG11	1.88	0.89
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.54	0.89
1:J:215:GLN:H	1:J:340:ILE:CG1	1.73	0.89
1:J:635:GLY:CA	4:W:341:ILE:HD13	2.02	0.89
1:J:721:LYS:CB	1:J:736:GLN:OE1	2.20	0.89
1:M:553:MLY:CE	4:1:43:VAL:CG2	2.43	0.89
1:P:206:LYS:CD	1:P:217:THR:CG2	2.16	0.89
1:P:649:VAL:CB	1:P:649:VAL:CG2	2.49	0.89
1:P:821:ARG:HH21	2:Q:127:ARG:HG2	1.34	0.89
3:R:62:ALA:O	3:R:63:ILE:CG1	2.19	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:LYS:C	4:8:23:GLY:O	2.15	0.89
1:D:735:GLY:C	1:D:743:ALA:HB1	1.84	0.89
2:E:162:ASP:O	2:K:21:GLU:HB2	1.72	0.89
1:G:567:LYS:HZ2	4:X:92:ASN:HD22	1.12	0.89
1:G:599:ASN:OD1	1:G:649:VAL:HB	1.72	0.89
1:G:757:GLN:CG	1:G:776:GLU:OE2	2.20	0.89
2:H:137:TRP:HA	2:H:145:ALA:HB2	1.53	0.89
3:I:62:ALA:O	3:I:63:ILE:CG1	2.19	0.89
1:J:534:SER:HA	4:W:350:SER:O	1.71	0.89
3:L:24:LYS:HB3	3:L:63:ILE:O	1.72	0.89
1:P:630:ALA:C	4:0:25:ASP:OD2	2.15	0.89
1:A:530:MET:N	4:8:354:GLN:HB3	1.87	0.89
1:A:553:MLY:CG	4:V:44:MET:O	2.20	0.89
1:A:721:LYS:CB	1:A:736:GLN:OE1	2.20	0.89
1:D:553:MLY:CG	4:W:44:MET:O	2.20	0.89
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.89
1:J:710:GLY:N	1:J:772:LEU:HD22	1.87	0.89
2:K:137:TRP:HA	2:K:145:ALA:HB2	1.53	0.89
1:M:107:MLY:HB3	1:M:686:MET:HE2	1.54	0.89
1:M:553:MLY:CG	4:1:43:VAL:CG2	2.50	0.89
4:X:286:ASP:OD2	4:Z:203:THR:HG22	1.72	0.89
1:A:508:ILE:CG1	1:A:759:ALA:HB1	2.03	0.89
2:B:137:TRP:HA	2:B:145:ALA:HB2	1.54	0.89
1:D:823:PHE:CE1	2:E:160:GLY:HA3	2.03	0.89
1:G:735:GLY:O	1:G:743:ALA:CA	2.19	0.89
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.89
1:M:84:MLY:CB	1:M:723:ARG:NE	2.34	0.89
1:M:538:GLU:O	4:Z:349:LEU:CG	2.20	0.89
1:M:538:GLU:N	4:Z:349:LEU:HD12	1.86	0.89
1:M:542:PHE:HA	4:Z:143:TYR:HE1	1.34	0.89
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	0.89
1:D:635:GLY:CA	4:9:341:ILE:HD13	2.03	0.89
1:G:93:MET:HG2	1:G:714:ARG:CA	2.01	0.89
1:G:797:PHE:HZ	3:I:146:ILE:CD1	1.58	0.89
1:J:567:LYS:HZ3	4:Y:92:ASN:HD22	1.18	0.89
1:P:530:MET:N	4:0:354:GLN:HB3	1.87	0.89
1:A:505:MLY:CH2	1:A:762:HIS:O	2.20	0.89
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.54	0.89
1:G:538:GLU:O	4:V:349:LEU:CG	2.20	0.89
1:J:640:LYS:C	4:W:23:GLY:O	2.15	0.89
1:P:534:SER:HA	4:0:350:SER:O	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:62:ALA:O	3:F:63:ILE:HG12	1.71	0.89
1:J:831:TRP:CZ2	2:K:47:LEU:CD2	2.55	0.89
1:M:553:MLY:HE2	4:1:43:VAL:HG22	1.54	0.89
1:M:641:LYS:CD	1:M:647:GLN:OE1	2.18	0.89
3:O:62:ALA:O	3:O:63:ILE:CG1	2.19	0.89
1:A:534:SER:HA	4:8:350:SER:O	1.70	0.89
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.89
1:D:649:VAL:HG12	1:D:649:VAL:C	1.98	0.89
1:J:649:VAL:HG12	1:J:649:VAL:C	1.98	0.89
1:M:721:LYS:CB	1:M:736:GLN:OE1	2.20	0.89
1:P:721:LYS:CB	1:P:736:GLN:OE1	2.20	0.89
1:A:550:PHE:CA	4:V:46:GLY:HA3	2.02	0.89
1:D:534:SER:HA	4:9:350:SER:O	1.71	0.89
1:D:640:LYS:C	4:9:23:GLY:O	2.15	0.89
1:D:641:LYS:HD2	4:9:348:SER:CB	2.03	0.89
1:D:795:ARG:NH2	3:F:116:GLU:HB3	1.88	0.89
1:G:534:SER:HA	4:V:350:SER:O	1.71	0.89
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	0.89
1:M:541:MET:CB	4:Z:143:TYR:OH	2.20	0.89
1:M:642:LYS:HG2	4:Z:22:ALA:CA	2.03	0.89
2:Q:111:SER:OG	2:Q:148:VAL:C	2.15	0.89
1:A:553:MLY:HE2	4:V:45:VAL:HA	1.53	0.88
1:D:641:LYS:CD	1:D:647:GLN:OE1	2.17	0.88
1:D:795:ARG:HB3	3:F:35:ARG:HH12	1.38	0.88
1:J:641:LYS:HD2	4:W:348:SER:CB	2.02	0.88
1:M:84:MLY:HH21	1:M:720:PHE:CA	2.03	0.88
1:P:640:LYS:C	4:0:23:GLY:O	2.15	0.88
1:A:538:GLU:O	4:8:349:LEU:CG	2.20	0.88
1:A:641:LYS:HG3	1:A:647:GLN:NE2	1.58	0.88
1:A:791:GLN:NE2	3:C:115:GLY:HA3	1.88	0.88
2:B:137:TRP:HA	2:B:145:ALA:CB	2.04	0.88
1:D:541:MET:CB	4:9:143:TYR:OH	2.21	0.88
1:G:792:ALA:CB	3:I:42:THR:N	2.35	0.88
1:P:638:GLY:HA3	4:0:341:ILE:O	1.70	0.88
1:P:792:ALA:HB2	3:R:42:THR:HG22	0.90	0.88
3:F:24:LYS:HB3	3:F:63:ILE:O	1.72	0.88
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.88
1:M:649:VAL:CG2	1:M:649:VAL:HG13	2.02	0.88
1:M:817:GLN:HG2	2:N:127:ARG:HB2	1.55	0.88
1:P:642:LYS:HG2	4:0:22:ALA:CA	2.03	0.88
4:1:204:ALA:H	4:Z:287:ILE:CG2	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.13	0.88
1:J:638:GLY:HA3	4:W:341:ILE:O	1.70	0.88
1:M:544:LYS:O	4:1:45:VAL:HG11	1.73	0.88
1:M:640:LYS:C	4:Z:23:GLY:O	2.15	0.88
1:M:797:PHE:CE1	3:O:146:ILE:HA	2.08	0.88
1:M:836:PHE:CE2	2:N:160:GLY:N	2.37	0.88
1:P:641:LYS:HD2	4:0:348:SER:CB	2.03	0.88
4:0:205:GLU:OE2	4:Y:287:ILE:HG22	1.70	0.88
1:D:724:TYR:CD1	1:D:782:MLY:HD3	2.09	0.88
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	0.88
1:G:94:MET:C	1:G:713:SER:HB3	1.99	0.88
1:M:642:LYS:CG	4:Z:21:PHE:O	2.22	0.88
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.88
1:D:599:ASN:OD1	1:D:649:VAL:HB	1.73	0.88
1:D:635:GLY:HA2	4:9:334:GLU:CG	2.03	0.88
1:G:541:MET:CB	4:V:143:TYR:OH	2.21	0.88
1:G:640:LYS:C	4:V:23:GLY:O	2.16	0.88
1:J:505:MLY:HG3	1:J:762:HIS:CE1	2.07	0.88
1:J:642:LYS:HG2	4:W:22:ALA:CA	2.03	0.88
1:J:735:GLY:C	1:J:743:ALA:HB2	1.82	0.88
1:M:546:THR:O	4:1:46:GLY:CA	2.21	0.88
1:P:642:LYS:CG	4:0:21:PHE:O	2.22	0.88
1:A:797:PHE:CE1	3:C:146:ILE:HD13	2.07	0.88
1:G:641:LYS:CD	1:G:647:GLN:OE1	2.17	0.88
1:G:831:TRP:HE1	2:H:67:MET:HB3	0.75	0.88
1:J:215:GLN:H	1:J:340:ILE:HG12	1.05	0.88
1:J:541:MET:CB	4:W:143:TYR:OH	2.20	0.88
1:J:710:GLY:O	1:J:772:LEU:HB2	1.74	0.88
3:L:62:ALA:O	3:L:63:ILE:HG12	1.71	0.88
3:O:24:LYS:HB3	3:O:63:ILE:O	1.72	0.88
1:P:97:LEU:CD2	1:P:712:PRO:HB3	2.03	0.88
1:P:215:GLN:H	1:P:340:ILE:HG12	1.05	0.88
3:R:24:LYS:HB3	3:R:63:ILE:O	1.72	0.88
1:A:149:GLN:HG2	1:A:719:ASP:H	1.37	0.88
1:A:641:LYS:HD2	4:8:348:SER:CB	2.03	0.88
1:D:727:LEU:HD13	1:D:782:MLY:HH12	1.55	0.88
1:G:93:MET:CA	1:G:714:ARG:H	1.82	0.88
1:G:642:LYS:HG2	4:V:22:ALA:CA	2.03	0.88
1:G:736:GLN:HA	1:G:743:ALA:HB2	1.51	0.88
1:J:642:LYS:CG	4:W:21:PHE:O	2.22	0.88
1:M:635:GLY:CA	4:Z:341:ILE:HD13	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:798:LEU:HD21	3:R:126:LEU:HD11	1.10	0.88
1:A:541:MET:CB	4:8:143:TYR:OH	2.20	0.88
1:D:215:GLN:H	1:D:340:ILE:HG12	1.06	0.88
1:D:798:LEU:HD11	3:F:126:LEU:CD2	2.02	0.88
1:D:800:ARG:NH2	3:F:40:ASN:CG	2.32	0.88
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	0.88
1:G:819:ASN:ND2	2:H:92:ASP:CB	2.37	0.88
1:G:830:PRO:HB3	2:H:67:MET:HE2	1.56	0.88
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.88
1:J:84:MLY:HH22	1:J:719:ASP:O	1.74	0.88
1:J:629:GLU:HG2	1:J:643:GLY:O	1.72	0.88
1:M:630:ALA:C	4:Z:25:ASP:OD2	2.15	0.88
1:M:795:ARG:HG2	3:O:118:MET:HE1	0.93	0.88
1:P:797:PHE:CE1	3:R:146:ILE:C	2.52	0.88
2:Q:137:TRP:HA	2:Q:145:ALA:CB	2.04	0.88
4:X:286:ASP:OD1	4:Z:203:THR:N	2.06	0.88
1:A:502:GLU:OE1	1:A:764:MLY:N	2.07	0.88
1:A:795:ARG:HH21	3:C:116:GLU:CG	1.87	0.88
1:D:646:PHE:CE2	1:D:652:LEU:CD1	2.57	0.88
2:E:137:TRP:HA	2:E:145:ALA:CB	2.04	0.88
1:P:629:GLU:HG2	1:P:643:GLY:O	1.72	0.88
1:P:817:GLN:HG2	2:Q:127:ARG:CG	2.03	0.88
1:P:838:ILE:HD11	2:Q:54:MET:HE1	1.51	0.88
1:D:798:LEU:CD1	3:F:126:LEU:CD2	2.51	0.87
1:G:84:MLY:HD3	1:G:723:ARG:CD	2.03	0.87
1:G:646:PHE:CE2	1:G:652:LEU:CD1	2.58	0.87
1:G:797:PHE:CZ	3:I:146:ILE:HD13	2.08	0.87
2:N:137:TRP:HA	2:N:145:ALA:HB2	1.54	0.87
1:A:72:VAL:CG1	1:A:76:GLN:HB3	2.05	0.87
1:A:736:GLN:HA	1:A:743:ALA:HB2	1.51	0.87
1:G:557:GLU:HB2	4:X:46:GLY:C	2.00	0.87
1:M:530:MET:N	4:Z:354:GLN:HB3	1.87	0.87
1:M:639:GLY:CA	4:Z:344:SER:C	2.48	0.87
3:R:139:TYR:HA	3:R:142:PHE:HB3	1.56	0.87
4:3:287:ILE:CG2	4:5:204:ALA:H	1.87	0.87
1:A:215:GLN:H	1:A:340:ILE:HG12	1.06	0.87
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.02	0.87
1:A:642:LYS:CG	4:8:21:PHE:O	2.22	0.87
1:A:795:ARG:CZ	3:C:116:GLU:CD	2.38	0.87
1:D:642:LYS:CG	4:9:21:PHE:O	2.22	0.87
1:D:797:PHE:CE1	3:F:146:ILE:HG23	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:635:GLY:CA	4:V:341:ILE:HD13	2.03	0.87
1:G:754:ASP:HA	1:G:779:ARG:HD3	1.52	0.87
2:H:137:TRP:HA	2:H:145:ALA:CB	2.04	0.87
1:M:35:MLY:HH23	1:M:778:MET:HG2	1.55	0.87
1:P:506:GLU:CD	1:P:760:PHE:C	2.38	0.87
1:P:541:MET:CB	4:0:143:TYR:OH	2.20	0.87
1:A:91:MET:HE3	1:A:119:SER:HB2	1.57	0.87
1:G:819:ASN:CB	2:H:90:GLY:O	2.21	0.87
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	0.87
1:J:756:THR:HG21	1:J:776:GLU:CA	2.00	0.87
1:P:503:TYR:CE1	1:P:711:PHE:CE2	2.62	0.87
1:A:800:ARG:O	3:C:149:VAL:CG2	2.23	0.87
1:D:642:LYS:HG2	4:9:22:ALA:CA	2.04	0.87
1:D:649:VAL:CG1	1:D:649:VAL:CA	2.53	0.87
1:D:791:GLN:CD	3:F:116:GLU:N	2.20	0.87
1:D:813:ILE:HG21	2:E:128:PHE:HE1	1.38	0.87
3:F:139:TYR:HA	3:F:142:PHE:HB3	1.56	0.87
1:G:755:HIS:HA	1:G:758:TYR:CE1	2.10	0.87
1:J:646:PHE:CE2	1:J:652:LEU:CD1	2.58	0.87
1:J:756:THR:CG2	1:J:776:GLU:HA	2.02	0.87
1:J:821:ARG:HH21	2:K:127:ARG:HG2	1.04	0.87
3:L:139:TYR:HA	3:L:142:PHE:HB3	1.56	0.87
1:M:91:MET:HE3	1:M:119:SER:HB2	1.57	0.87
1:M:646:PHE:CD2	1:M:652:LEU:HD11	2.09	0.87
1:M:793:ARG:NH1	3:O:40:ASN:HD21	1.64	0.87
1:M:800:ARG:HB3	3:O:149:VAL:HG22	1.55	0.87
4:1:324:THR:HG23	4:3:244:ASP:HA	1.55	0.87
1:A:649:VAL:CG1	1:A:649:VAL:CA	2.53	0.87
1:D:795:ARG:HD2	3:F:35:ARG:HH12	1.37	0.87
1:G:503:TYR:CZ	1:G:711:PHE:CE2	2.62	0.87
1:G:649:VAL:CG1	1:G:649:VAL:CA	2.53	0.87
1:G:649:VAL:CG2	1:G:649:VAL:HG13	2.02	0.87
1:M:641:LYS:HD2	4:Z:348:SER:CB	2.02	0.87
2:N:137:TRP:HA	2:N:145:ALA:CB	2.04	0.87
1:P:72:VAL:CG1	1:P:76:GLN:HB3	2.05	0.87
4:1:324:THR:CG2	4:3:244:ASP:HA	2.05	0.87
2:B:111:SER:OG	2:B:148:VAL:C	2.15	0.87
1:G:72:VAL:CG1	1:G:76:GLN:HB3	2.05	0.87
1:G:534:SER:O	4:V:351:THR:HG23	1.12	0.87
1:G:567:LYS:HZ3	4:X:92:ASN:ND2	1.73	0.87
1:G:641:LYS:HD2	4:V:348:SER:CB	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ALA:CA	3:I:42:THR:HA	2.04	0.87
1:G:817:GLN:HB3	2:H:127:ARG:CD	2.05	0.87
1:J:797:PHE:CD1	3:L:146:ILE:HG22	2.08	0.87
1:J:817:GLN:CG	2:K:127:ARG:CD	2.50	0.87
1:J:818:TYR:HE1	2:K:127:ARG:NH2	1.65	0.87
1:P:538:GLU:N	4:0:349:LEU:HD12	1.86	0.87
1:P:797:PHE:CE1	3:R:149:VAL:CG1	2.58	0.87
1:P:819:ASN:OD1	2:Q:91:ALA:C	2.18	0.87
1:P:820:VAL:CG1	2:Q:136:MET:HE1	2.04	0.87
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.87
1:P:755:HIS:HA	1:P:758:TYR:CE1	2.10	0.87
1:A:28:GLN:HE22	1:A:723:ARG:HH21	0.89	0.87
1:J:599:ASN:OD1	1:J:649:VAL:HB	1.73	0.87
1:J:754:ASP:C	1:J:780:ASP:OD2	2.17	0.87
1:J:754:ASP:CG	1:J:780:ASP:OD2	2.03	0.87
1:J:799:MET:SD	3:L:32:ASP:CB	2.63	0.87
1:P:635:GLY:HA2	4:0:334:GLU:CG	2.03	0.87
1:A:639:GLY:CA	4:8:344:SER:C	2.48	0.86
1:G:639:GLY:CA	4:V:344:SER:C	2.48	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
1:M:649:VAL:CG1	1:M:649:VAL:CA	2.53	0.86
1:P:649:VAL:CG1	1:P:649:VAL:CA	2.53	0.86
1:P:786:ILE:CB	1:P:787:ILE:N	2.37	0.86
1:D:712:PRO:HB2	1:D:771:LEU:HB3	1.55	0.86
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.86
1:D:800:ARG:CD	3:F:149:VAL:C	2.48	0.86
1:G:292:MET:HE1	1:G:309:PRO:CA	2.05	0.86
1:J:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.86
1:M:292:MET:HE1	1:M:309:PRO:CA	2.05	0.86
1:P:534:SER:O	4:0:351:THR:HG23	1.13	0.86
1:A:508:ILE:HD11	1:A:759:ALA:CA	2.05	0.86
1:A:649:VAL:HG13	1:A:649:VAL:CG2	2.02	0.86
1:A:757:GLN:CB	1:A:771:LEU:CG	2.33	0.86
1:D:91:MET:HE3	1:D:119:SER:HB2	1.57	0.86
1:D:800:ARG:O	3:F:149:VAL:CG2	2.22	0.86
1:G:97:LEU:HD22	1:G:712:PRO:HB3	1.57	0.86
1:G:148:ARG:NH2	1:G:764:MLY:HH11	1.88	0.86
1:G:646:PHE:CD2	1:G:652:LEU:HD11	2.09	0.86
1:G:801:VAL:HG21	3:I:126:LEU:CD2	2.04	0.86
1:J:292:MET:HE1	1:J:309:PRO:CA	2.05	0.86
1:J:639:GLY:CA	4:W:344:SER:C	2.48	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:646:PHE:CE2	1:M:652:LEU:CD1	2.58	0.86
1:M:799:MET:SD	3:O:32:ASP:HB3	2.15	0.86
1:P:641:LYS:CD	1:P:647:GLN:OE1	2.18	0.86
1:P:783:LEU:HG	1:P:786:ILE:HD11	0.90	0.86
4:1:287:ILE:HB	4:3:203:THR:CG2	2.04	0.86
4:1:322:PRO:CB	4:3:244:ASP:HB3	2.04	0.86
1:A:800:ARG:C	3:C:149:VAL:CG2	2.47	0.86
1:D:646:PHE:CD2	1:D:652:LEU:HD11	2.09	0.86
1:G:542:PHE:HA	4:V:143:TYR:HE1	1.34	0.86
1:J:310:TYR:CZ	1:J:320:ILE:HD11	2.11	0.86
1:J:641:LYS:CD	1:J:647:GLN:OE1	2.18	0.86
1:J:821:ARG:NH2	2:K:127:ARG:CD	2.37	0.86
1:P:292:MET:HE1	1:P:309:PRO:CA	2.05	0.86
1:P:548:THR:HG21	4:2:48:GLY:C	1.99	0.86
1:P:735:GLY:C	1:P:743:ALA:HB2	1.82	0.86
4:8:287:ILE:CG2	4:V:205:GLU:HG2	2.05	0.86
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.86
1:A:505:MLY:CG	1:A:741:LYS:HZ2	1.86	0.86
1:A:530:MET:HG2	4:8:354:GLN:CG	2.05	0.86
1:D:769:ALA:N	1:D:771:LEU:HD12	1.90	0.86
1:D:795:ARG:HB3	3:F:35:ARG:NH2	1.90	0.86
1:G:725:ARG:CZ	1:G:733:PRO:HB3	2.06	0.86
1:J:557:GLU:HA	4:Y:48:GLY:N	1.90	0.86
1:J:791:GLN:NE2	3:L:115:GLY:HA3	1.90	0.86
1:P:639:GLY:CA	4:0:344:SER:C	2.48	0.86
1:P:730:SER:N	3:R:93:VAL:HG23	1.86	0.86
1:P:831:TRP:HZ3	2:Q:34:ILE:HD13	1.40	0.86
1:D:72:VAL:CG1	1:D:76:GLN:HB3	2.05	0.86
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	0.86
1:D:639:GLY:CA	4:9:344:SER:C	2.48	0.86
1:G:215:GLN:H	1:G:340:ILE:HG12	1.06	0.86
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	0.86
1:J:756:THR:CA	1:J:776:GLU:OE1	2.23	0.86
1:M:838:ILE:HD11	2:N:54:MET:HE3	0.87	0.86
4:X:324:THR:HG23	4:Z:247:VAL:HG22	1.57	0.86
1:A:797:PHE:HE1	3:C:146:ILE:HA	1.04	0.86
3:C:139:TYR:HA	3:C:142:PHE:HB3	1.56	0.86
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	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:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:85:TYR:HH	1:D:772:LEU:CD2	1.83	0.86
1:D:292:MET:HE1	1:D:309:PRO:CA	2.05	0.86
1:D:549:SER:O	4:W:46:GLY:C	2.18	0.86
1:D:834:LEU:HD23	2:E:54:MET:HE3	1.55	0.86
1:G:530:MET:HG2	4:V:354:GLN:CG	2.05	0.86
3:O:139:TYR:HA	3:O:142:PHE:HB3	1.56	0.86
1:P:530:MET:HG2	4:0:354:GLN:CG	2.06	0.86
1:A:542:PHE:HA	4:8:143:TYR:HE1	1.34	0.86
1:D:508:ILE:HD13	1:D:766:PHE:CD1	2.10	0.86
1:D:831:TRP:CH2	2:E:47:LEU:HA	2.11	0.86
1:J:530:MET:HG2	4:W:354:GLN:CG	2.06	0.86
2:K:137:TRP:HA	2:K:145:ALA:CB	2.04	0.86
1:M:310:TYR:CZ	1:M:320:ILE:HD11	2.11	0.86
1:A:755:HIS:HA	1:A:758:TYR:CE1	2.10	0.86
1:D:507:GLY:CA	1:D:762:HIS:CG	2.59	0.86
1:G:817:GLN:CD	2:H:127:ARG:CG	2.48	0.86
1:G:830:PRO:HB2	2:H:67:MET:HE2	1.58	0.86
1:J:725:ARG:CZ	1:J:733:PRO:HB3	2.06	0.86
1:J:817:GLN:HG2	2:K:127:ARG:HB2	1.58	0.86
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.58	0.86
1:M:72:VAL:CG1	1:M:76:GLN:HB3	2.05	0.86
1:M:206:LYS:HD3	1:M:217:THR:CB	2.06	0.86
1:M:538:GLU:N	4:Z:351:THR:N	2.24	0.86
1:P:735:GLY:C	1:P:743:ALA:HB1	1.84	0.86
1:P:817:GLN:CD	2:Q:127:ARG:CD	2.39	0.86
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.85
1:A:599:ASN:OD1	1:A:649:VAL:CA	2.24	0.85
1:A:836:PHE:CE1	2:B:159:HIS:HB2	2.11	0.85
1:D:834:LEU:HD21	2:E:54:MET:HE3	0.87	0.85
1:J:410:ASN:OD1	4:W:334:GLU:CA	2.24	0.85
1:J:505:MLY:HD2	1:J:762:HIS:HE1	1.36	0.85
1:P:724:TYR:HE1	1:P:776:GLU:CD	1.84	0.85
4:X:325:MET:HE1	4:Z:244:ASP:OD2	1.75	0.85
1:A:292:MET:HE1	1:A:309:PRO:CA	2.05	0.85
1:A:538:GLU:N	4:8:351:THR:N	2.24	0.85
1:G:752:ASP:OD2	1:G:780:ASP:O	1.94	0.85
1:J:206:LYS:HD3	1:J:217:THR:CB	2.06	0.85
1:M:530:MET:HG2	4:Z:354:GLN:CG	2.06	0.85
1:M:755:HIS:HA	1:M:758:TYR:CE1	2.10	0.85
1:P:732:ILE:HG23	1:P:747:LEU:HB2	1.57	0.85
1:A:505:MLY:NZ	1:A:762:HIS:C	2.22	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	0.85
1:J:799:MET:SD	3:L:32:ASP:CG	2.60	0.85
1:M:84:MLY:HG2	1:M:723:ARG:CD	2.05	0.85
1:P:548:THR:HG22	4:2:49:GLN:N	1.84	0.85
1:P:646:PHE:CD2	1:P:652:LEU:HD11	2.10	0.85
2:E:163:ALA:CA	2:K:21:GLU:HB3	2.06	0.85
1:G:599:ASN:OD1	1:G:649:VAL:CA	2.25	0.85
1:J:732:ILE:HG23	1:J:747:LEU:HB2	1.57	0.85
1:J:769:ALA:CB	1:J:770:GLY:HA2	2.06	0.85
1:M:202:SER:HA	1:M:207:LYS:HE2	0.85	0.85
4:1:322:PRO:HB2	4:3:244:ASP:HB3	1.57	0.85
4:2:287:ILE:HD13	4:4:203:THR:CB	1.97	0.85
1:A:206:LYS:HD3	1:A:217:THR:CB	2.06	0.85
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.85
1:D:641:LYS:HG3	1:D:647:GLN:NE2	1.58	0.85
1:D:797:PHE:HE1	3:F:146:ILE:CA	1.77	0.85
1:D:823:PHE:HE1	2:E:160:GLY:C	1.84	0.85
1:G:410:ASN:OD1	4:V:334:GLU:CA	2.24	0.85
1:G:553:MLY:HH12	4:X:45:VAL:HG11	1.58	0.85
1:P:204:GLU:H	1:P:207:LYS:HE3	1.42	0.85
1:P:795:ARG:CB	3:R:35:ARG:CZ	2.54	0.85
1:A:798:LEU:CD1	3:C:126:LEU:CD2	2.43	0.85
1:G:310:TYR:CZ	1:G:320:ILE:HD11	2.11	0.85
1:J:646:PHE:CD2	1:J:652:LEU:HD11	2.10	0.85
1:M:649:VAL:HG12	1:M:649:VAL:C	1.98	0.85
1:P:310:TYR:CZ	1:P:320:ILE:HD11	2.11	0.85
1:P:410:ASN:OD1	4:0:334:GLU:CA	2.24	0.85
4:0:167:GLU:HB3	4:2:41:GLN:O	1.76	0.85
1:D:599:ASN:OD1	1:D:649:VAL:CA	2.25	0.85
1:D:814:PHE:HA	2:E:127:ARG:NH1	1.89	0.85
1:G:410:ASN:CG	4:V:334:GLU:CA	2.47	0.85
1:G:503:TYR:CZ	1:G:711:PHE:CD2	2.65	0.85
1:G:817:GLN:CG	2:H:127:ARG:CD	2.55	0.85
1:M:783:LEU:CB	1:M:786:ILE:CD1	2.55	0.85
1:P:91:MET:HE3	1:P:119:SER:HB2	1.57	0.85
1:A:635:GLY:HA2	4:8:334:GLU:CG	2.03	0.85
1:A:646:PHE:CD2	1:A:652:LEU:HD11	2.10	0.85
1:D:204:GLU:H	1:D:207:LYS:HE3	1.42	0.85
1:G:91:MET:HE3	1:G:119:SER:HB2	1.57	0.85
1:G:202:SER:HA	1:G:207:LYS:HE2	0.85	0.85
1:G:538:GLU:N	4:V:351:THR:N	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:640:LYS:CB	1:J:645:SER:OG	2.25	0.85
1:P:795:ARG:NH2	3:R:116:GLU:HG2	1.88	0.85
1:P:799:MET:SD	3:R:32:ASP:CG	2.60	0.85
1:A:204:GLU:H	1:A:207:LYS:HE3	1.42	0.85
1:A:725:ARG:CZ	1:A:733:PRO:HB3	2.06	0.85
1:J:410:ASN:ND2	4:W:336:LYS:HG2	1.92	0.85
1:M:204:GLU:H	1:M:207:LYS:HE3	1.42	0.85
1:M:732:ILE:HG23	1:M:747:LEU:HB2	1.57	0.85
1:P:206:LYS:HD3	1:P:217:THR:CB	2.06	0.85
1:P:552:ASN:ND2	4:2:49:GLN:CD	2.34	0.85
1:A:798:LEU:CD1	3:C:126:LEU:CD1	2.45	0.85
1:D:410:ASN:OD1	4:9:334:GLU:CA	2.24	0.85
1:G:538:GLU:HG3	4:V:351:THR:C	2.02	0.85
1:J:505:MLY:CG	1:J:762:HIS:CE1	2.60	0.85
1:M:28:GLN:HB2	1:M:723:ARG:HH12	1.40	0.85
1:M:831:TRP:HZ3	2:N:34:ILE:HD13	1.40	0.85
1:D:202:SER:HA	1:D:207:LYS:HE2	0.85	0.84
1:D:418:THR:HB	1:D:421:GLU:HG3	1.59	0.84
1:D:725:ARG:CD	1:D:733:PRO:HB3	2.07	0.84
1:J:529:PRO:CB	4:W:353:GLN:OE1	2.25	0.84
1:J:800:ARG:NH2	3:L:40:ASN:HD21	1.75	0.84
1:M:93:MET:CE	1:M:764:MLY:HD3	2.07	0.84
1:M:410:ASN:ND2	4:Z:336:LYS:HG2	1.92	0.84
1:M:599:ASN:OD1	1:M:649:VAL:HB	1.73	0.84
4:0:243:PRO:CA	4:Y:291:LYS:CE	2.52	0.84
1:A:732:ILE:CG2	1:A:747:LEU:HD13	1.34	0.84
1:A:837:MLY:HH21	2:H:20:ASP:HA	1.57	0.84
1:J:202:SER:HA	1:J:207:LYS:HE2	0.85	0.84
1:J:795:ARG:CG	3:L:35:ARG:HH12	1.90	0.84
1:P:599:ASN:OD1	1:P:649:VAL:CA	2.25	0.84
1:P:725:ARG:CD	1:P:733:PRO:HB3	2.07	0.84
4:0:205:GLU:HG3	4:Y:287:ILE:CD1	2.07	0.84
4:X:324:THR:HB	4:Z:245:GLY:O	1.77	0.84
1:A:202:SER:HA	1:A:207:LYS:HE2	0.85	0.84
3:I:139:TYR:HA	3:I:142:PHE:HB3	1.56	0.84
1:J:529:PRO:C	4:W:354:GLN:CB	2.48	0.84
1:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.84
1:J:821:ARG:HH22	2:K:127:ARG:NE	1.75	0.84
1:M:599:ASN:OD1	1:M:649:VAL:CA	2.25	0.84
1:P:543:PRO:HG3	4:0:143:TYR:O	1.77	0.84
1:P:838:ILE:HD11	2:Q:54:MET:HE3	0.85	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:ILE:CD1	1:D:766:PHE:CD1	2.59	0.84
1:D:557:GLU:H	4:W:48:GLY:HA3	1.28	0.84
1:M:215:GLN:H	1:M:340:ILE:HG12	1.05	0.84
1:M:410:ASN:CG	4:Z:334:GLU:CA	2.47	0.84
4:9:287:ILE:CG2	4:W:205:GLU:HG2	2.05	0.84
4:V:325:MET:HE1	4:X:244:ASP:CG	2.00	0.84
1:D:410:ASN:CG	4:9:334:GLU:CA	2.47	0.84
1:G:90:ASP:OD2	1:G:764:MLY:CH1	2.26	0.84
1:G:410:ASN:ND2	4:V:336:LYS:HG2	1.92	0.84
1:J:84:MLY:CH1	1:J:724:TYR:CE2	2.43	0.84
1:J:418:THR:HB	1:J:421:GLU:HG3	1.60	0.84
1:P:418:THR:HB	1:P:421:GLU:HG3	1.60	0.84
4:7:287:ILE:CG2	4:9:205:GLU:HG2	2.05	0.84
4:W:291:LYS:HD2	4:Y:243:PRO:CB	2.07	0.84
1:A:310:TYR:CZ	1:A:320:ILE:HD11	2.11	0.84
1:A:599:ASN:OD1	1:A:649:VAL:HB	1.72	0.84
1:A:813:ILE:HG22	2:B:127:ARG:HD3	1.60	0.84
1:D:727:LEU:CD1	1:D:782:MLY:CH1	2.50	0.84
1:D:813:ILE:HG23	2:E:128:PHE:HZ	1.37	0.84
1:G:648:THR:CG2	1:G:651:ALA:HB2	2.08	0.84
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.84
1:J:725:ARG:CD	1:J:733:PRO:HB3	2.07	0.84
1:M:534:SER:O	4:Z:351:THR:HG23	1.13	0.84
1:M:725:ARG:CZ	1:M:733:PRO:HB3	2.06	0.84
1:P:202:SER:HA	1:P:207:LYS:HE2	0.85	0.84
1:P:796:GLY:CA	3:R:35:ARG:HD3	2.05	0.84
1:A:410:ASN:OD1	4:8:334:GLU:CA	2.24	0.84
1:A:502:GLU:HA	1:A:762:HIS:H	1.42	0.84
1:D:529:PRO:CB	4:9:353:GLN:OE1	2.25	0.84
2:E:163:ALA:O	2:K:22:THR:N	2.09	0.84
1:J:84:MLY:CH2	1:J:719:ASP:O	2.26	0.84
1:M:640:LYS:CB	1:M:645:SER:OG	2.25	0.84
1:M:818:TYR:CZ	2:N:127:ARG:NH2	2.33	0.84
1:P:508:ILE:CD1	1:P:759:ALA:CB	2.37	0.84
1:P:538:GLU:N	4:0:351:THR:N	2.24	0.84
1:P:821:ARG:NH2	2:Q:127:ARG:CG	2.39	0.84
4:9:237:GLU:HA	4:9:251:GLY:HA2	1.60	0.84
1:D:818:TYR:CG	2:E:90:GLY:HA3	2.11	0.84
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	0.84
1:G:635:GLY:HA2	4:V:334:GLU:CG	2.03	0.84
1:J:204:GLU:H	1:J:207:LYS:HE3	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:121:LEU:CA	2:K:128:PHE:CB	2.46	0.84
1:M:84:MLY:CH1	1:M:724:TYR:HE2	1.89	0.84
1:M:410:ASN:OD1	4:Z:334:GLU:CA	2.24	0.84
1:P:599:ASN:OD1	1:P:649:VAL:HB	1.73	0.84
1:P:640:LYS:CB	1:P:645:SER:OG	2.25	0.84
1:P:769:ALA:O	1:P:771:LEU:HB2	1.78	0.84
1:P:829:TRP:CH2	2:Q:87:LYS:HE2	2.12	0.84
3:R:50:LEU:C	3:R:53:PRO:HD2	2.03	0.84
4:1:324:THR:OG1	4:3:244:ASP:HA	1.76	0.84
4:7:237:GLU:HA	4:7:251:GLY:HA2	1.60	0.84
4:W:237:GLU:HA	4:W:251:GLY:HA2	1.60	0.84
1:A:542:PHE:CA	4:8:143:TYR:CE1	2.61	0.84
1:A:543:PRO:HG3	4:8:143:TYR:O	1.77	0.84
1:D:538:GLU:N	4:9:351:THR:N	2.24	0.84
1:D:732:ILE:HG23	1:D:747:LEU:HB2	1.57	0.84
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.58	0.84
1:M:95:THR:OG1	1:M:770:GLY:HA2	1.77	0.84
1:M:543:PRO:HG3	4:Z:143:TYR:O	1.77	0.84
3:O:50:LEU:C	3:O:53:PRO:HD2	2.03	0.84
1:P:629:GLU:CG	1:P:643:GLY:O	2.26	0.84
1:P:791:GLN:OE1	3:R:116:GLU:HG3	1.76	0.84
1:A:410:ASN:ND2	4:8:336:LYS:HG2	1.93	0.84
1:D:410:ASN:ND2	4:9:336:LYS:HG2	1.92	0.84
1:G:649:VAL:HG12	1:G:649:VAL:C	1.98	0.84
1:J:542:PHE:CA	4:W:143:TYR:CE1	2.61	0.84
1:J:629:GLU:CG	1:J:643:GLY:O	2.26	0.84
1:J:756:THR:CG2	1:J:776:GLU:C	2.50	0.84
1:P:793:ARG:CD	3:R:40:ASN:ND2	2.40	0.84
1:P:831:TRP:HH2	2:Q:47:LEU:HD23	1.41	0.84
4:0:237:GLU:HA	4:0:251:GLY:HA2	1.60	0.84
4:7:286:ASP:OD1	4:9:203:THR:CG2	2.26	0.84
1:A:648:THR:CG2	1:A:651:ALA:HB2	2.08	0.83
1:D:629:GLU:CG	1:D:643:GLY:O	2.26	0.83
2:E:141:PRO:CB	2:E:142:PRO:CD	2.56	0.83
1:G:503:TYR:HE1	1:G:711:PHE:CE2	1.90	0.83
2:K:141:PRO:CB	2:K:142:PRO:CD	2.56	0.83
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	0.83
1:M:538:GLU:HG3	4:Z:351:THR:C	2.03	0.83
1:M:795:ARG:CB	3:O:35:ARG:NH2	2.37	0.83
1:M:821:ARG:HH21	2:N:127:ARG:HG2	1.38	0.83
1:P:529:PRO:CB	4:0:353:GLN:OE1	2.25	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:237:GLU:HA	4:Y:251:GLY:HA2	1.60	0.83
1:A:508:ILE:CD1	1:A:759:ALA:HB3	2.07	0.83
1:A:725:ARG:CD	1:A:733:PRO:HB3	2.07	0.83
1:A:834:LEU:CD2	2:B:54:MET:CE	1.95	0.83
1:D:640:LYS:CB	1:D:645:SER:OG	2.25	0.83
1:D:732:ILE:HD13	1:D:782:MLY:CH1	2.05	0.83
1:J:561:LYS:CE	4:Y:48:GLY:HA3	2.07	0.83
1:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	0.83
1:M:529:PRO:CB	4:Z:353:GLN:OE1	2.25	0.83
1:P:410:ASN:ND2	4:0:336:LYS:HG2	1.92	0.83
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.83
1:A:732:ILE:HG23	1:A:747:LEU:HB2	1.58	0.83
1:A:798:LEU:HD12	3:C:126:LEU:HD21	1.60	0.83
1:D:648:THR:CG2	1:D:651:ALA:HB2	2.08	0.83
1:D:727:LEU:N	1:D:782:MLY:HE2	1.93	0.83
1:D:730:SER:O	1:D:734:GLU:HG3	1.78	0.83
1:G:725:ARG:CD	1:G:733:PRO:HB3	2.07	0.83
1:J:410:ASN:CG	4:W:334:GLU:CA	2.47	0.83
1:J:538:GLU:HG3	4:W:351:THR:C	2.03	0.83
1:P:538:GLU:HG3	4:0:351:THR:C	2.03	0.83
1:P:795:ARG:HH21	3:R:116:GLU:HB3	0.69	0.83
4:0:202:THR:OG1	4:Y:287:ILE:N	2.11	0.83
1:A:549:SER:O	4:V:46:GLY:HA3	1.77	0.83
1:A:557:GLU:H	4:V:48:GLY:HA3	1.28	0.83
1:A:646:PHE:CE2	1:A:652:LEU:CD1	2.58	0.83
1:D:507:GLY:HA2	1:D:762:HIS:CE1	2.12	0.83
1:G:529:PRO:CB	4:V:353:GLN:OE1	2.25	0.83
1:J:91:MET:HE3	1:J:119:SER:HB2	1.57	0.83
1:J:797:PHE:HD1	3:L:146:ILE:HG23	1.31	0.83
1:M:635:GLY:HA2	4:Z:334:GLU:CG	2.03	0.83
1:P:648:THR:CG2	1:P:651:ALA:HB2	2.08	0.83
1:P:729:ALA:HB3	3:R:93:VAL:HG23	1.60	0.83
2:Q:121:LEU:CA	2:Q:128:PHE:CB	2.46	0.83
4:1:244:ASP:OD2	4:Z:322:PRO:HB3	1.78	0.83
4:2:237:GLU:HA	4:2:251:GLY:HA2	1.60	0.83
4:W:286:ASP:OD1	4:Y:203:THR:N	2.11	0.83
1:A:553:MLY:HG2	4:V:47:MET:H	1.44	0.83
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.83
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.83
1:J:829:TRP:CH2	2:K:87:LYS:NZ	2.46	0.83
2:K:111:SER:OG	2:K:148:VAL:C	2.15	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:418:THR:HB	1:M:421:GLU:HG3	1.59	0.83
1:P:805:ALA:CA	1:P:808:GLU:HB2	2.03	0.83
4:0:287:ILE:HG22	4:2:203:THR:HG22	1.60	0.83
4:2:322:PRO:CB	4:4:244:ASP:CB	2.55	0.83
1:G:97:LEU:HD22	1:G:712:PRO:CB	2.06	0.83
1:G:799:MET:SD	3:I:32:ASP:CG	2.61	0.83
1:M:797:PHE:CE2	3:O:146:ILE:CD1	2.60	0.83
1:M:798:LEU:CG	3:O:126:LEU:HD11	1.88	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:549:SER:O	4:W:46:GLY:HA3	1.77	0.83
1:G:84:MLY:HB3	1:G:723:ARG:NE	1.93	0.83
1:G:640:LYS:CB	1:G:645:SER:OG	2.25	0.83
2:H:141:PRO:CB	2:H:142:PRO:CD	2.56	0.83
1:J:84:MLY:CH1	1:J:720:PHE:CE1	2.55	0.83
1:J:279:LEU:HB2	1:J:282:GLU:HG3	1.60	0.83
1:J:730:SER:O	1:J:734:GLU:HG3	1.79	0.83
1:M:553:MLY:HG3	4:1:43:VAL:HG21	1.60	0.83
1:M:783:LEU:HG	1:M:786:ILE:HD12	0.83	0.83
1:P:792:ALA:HB2	3:R:42:THR:CB	2.08	0.83
4:3:237:GLU:HA	4:3:251:GLY:HA2	1.60	0.83
4:5:237:GLU:HA	4:5:251:GLY:HA2	1.60	0.83
4:X:291:LYS:HE3	4:Z:243:PRO:CB	2.09	0.83
1:J:218:LEU:HB3	1:J:221:GLN:HG3	1.61	0.83
1:J:538:GLU:N	4:W:351:THR:N	2.24	0.83
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.27	0.83
1:M:542:PHE:CA	4:Z:143:TYR:CE1	2.61	0.83
1:P:798:LEU:HD11	3:R:126:LEU:HD13	1.60	0.83
2:Q:141:PRO:CB	2:Q:142:PRO:CD	2.56	0.83
4:3:287:ILE:CD1	4:5:203:THR:HB	2.06	0.83
4:3:322:PRO:HB3	4:5:244:ASP:OD2	1.78	0.83
4:9:286:ASP:OD1	4:W:203:THR:CG2	2.26	0.83
1:D:726:VAL:O	1:D:785:GLU:HG2	1.78	0.83
1:G:418:THR:HB	1:G:421:GLU:HG3	1.59	0.83
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.61	0.83
1:G:542:PHE:CA	4:V:143:TYR:CE1	2.61	0.83
1:G:769:ALA:CB	1:G:770:GLY:N	2.42	0.83
1:J:641:LYS:HG2	1:J:647:GLN:HG3	1.61	0.83
1:M:34:ALA:HB3	1:M:777:GLU:CG	2.08	0.83
1:M:556:ASP:H	4:1:49:GLN:N	1.72	0.83
2:N:150:TYR:C	2:N:151:LYS:CG	2.48	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:641:LYS:HG2	1:P:647:GLN:HG3	1.61	0.83
1:P:646:PHE:CE2	1:P:652:LEU:CD1	2.58	0.83
1:D:542:PHE:CA	4:9:143:TYR:CE1	2.61	0.83
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.83
1:D:732:ILE:HG21	1:D:747:LEU:HD13	0.91	0.83
1:G:792:ALA:CB	3:I:42:THR:HG23	2.09	0.83
2:H:144:VAL:HG12	2:H:153:ILE:CD1	2.09	0.83
1:J:817:GLN:HG2	2:K:127:ARG:CD	2.09	0.83
2:N:111:SER:OG	2:N:148:VAL:C	2.15	0.83
1:P:218:LEU:HA	1:P:221:GLN:HG2	1.61	0.83
1:P:542:PHE:CA	4:0:143:TYR:HE1	1.92	0.83
1:A:410:ASN:CG	4:8:334:GLU:CA	2.48	0.82
1:D:641:LYS:HG2	1:D:647:GLN:HG3	1.60	0.82
1:D:747:LEU:CD1	1:D:782:MLY:CH2	2.42	0.82
1:D:819:ASN:N	2:E:90:GLY:O	2.11	0.82
1:G:732:ILE:HG23	1:G:747:LEU:HB2	1.57	0.82
1:G:834:LEU:CD1	2:H:51:PHE:HE1	1.90	0.82
1:J:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.82
1:J:732:ILE:CG2	1:J:747:LEU:HD13	1.34	0.82
1:M:529:PRO:C	4:Z:354:GLN:CB	2.48	0.82
1:M:730:SER:O	1:M:734:GLU:HG3	1.79	0.82
1:M:836:PHE:CE2	2:N:160:GLY:HA3	2.14	0.82
2:N:141:PRO:CB	2:N:142:PRO:CD	2.56	0.82
1:P:279:LEU:HB2	1:P:282:GLU:HG3	1.60	0.82
4:4:237:GLU:HA	4:4:251:GLY:HA2	1.60	0.82
1:A:501:GLU:CG	1:A:762:HIS:CE1	2.59	0.82
1:A:809:ARG:NH1	2:B:124:GLY:HA2	1.94	0.82
3:C:50:LEU:C	3:C:53:PRO:HD2	2.03	0.82
1:D:799:MET:SD	3:F:32:ASP:CA	2.66	0.82
1:J:783:LEU:O	1:J:787:ILE:HB	1.78	0.82
1:M:732:ILE:CG2	1:M:747:LEU:HD13	1.34	0.82
1:A:279:LEU:HB2	1:A:282:GLU:HG3	1.60	0.82
1:A:418:THR:HB	1:A:421:GLU:HG3	1.59	0.82
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.82
1:J:218:LEU:HA	1:J:221:GLN:HG2	1.62	0.82
1:J:648:THR:CG2	1:J:651:ALA:HB2	2.08	0.82
1:J:756:THR:CG2	1:J:776:GLU:CD	2.52	0.82
2:K:121:LEU:CG	2:K:128:PHE:CA	2.48	0.82
1:M:786:ILE:O	1:M:790:THR:N	2.12	0.82
1:P:410:ASN:CG	4:0:334:GLU:CA	2.47	0.82
1:P:730:SER:O	1:P:734:GLU:HG3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:290:ARG:NH1	4:V:202:THR:HG21	1.94	0.82
1:D:538:GLU:HG3	4:9:351:THR:C	2.03	0.82
1:D:725:ARG:CZ	1:D:733:PRO:HB3	2.06	0.82
1:D:795:ARG:NE	3:F:43:ASN:OD1	2.11	0.82
1:G:643:GLY:N	4:V:24:ASP:HA	1.94	0.82
1:G:754:ASP:N	1:G:779:ARG:CD	2.36	0.82
1:G:795:ARG:HA	3:I:118:MET:HE1	1.60	0.82
1:J:817:GLN:CB	2:K:127:ARG:HD2	2.08	0.82
1:M:725:ARG:CD	1:M:733:PRO:HB3	2.08	0.82
1:P:127:ASN:HD22	1:P:128:PRO:HD2	1.44	0.82
1:A:830:PRO:CB	2:B:51:PHE:CE1	2.61	0.82
2:B:121:LEU:CG	2:B:128:PHE:CA	2.48	0.82
1:D:218:LEU:HD22	1:D:222:ILE:CG1	2.10	0.82
1:D:543:PRO:HG3	4:9:143:TYR:O	1.78	0.82
1:G:629:GLU:CG	1:G:643:GLY:O	2.26	0.82
1:M:648:THR:CG2	1:M:651:ALA:HB2	2.08	0.82
1:M:785:GLU:C	1:M:786:ILE:N	2.38	0.82
2:N:121:LEU:CG	2:N:128:PHE:CA	2.49	0.82
1:A:578:HIS:HB3	1:A:592:ILE:HD12	1.62	0.82
1:A:709:LYS:O	1:A:710:GLY:HA3	1.80	0.82
1:D:713:SER:CB	1:D:775:LEU:HD22	2.08	0.82
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	0.82
1:J:218:LEU:HD22	1:J:222:ILE:CG1	2.10	0.82
1:M:820:VAL:CG1	2:N:136:MET:HE1	2.09	0.82
1:P:530:MET:HE2	4:0:354:GLN:HG3	1.61	0.82
1:P:798:LEU:HD11	3:R:126:LEU:HD22	1.61	0.82
4:1:287:ILE:HG21	4:3:204:ALA:H	1.42	0.82
1:A:127:ASN:HD22	1:A:128:PRO:HD2	1.45	0.82
1:A:149:GLN:HE21	1:A:718:ALA:HB3	1.27	0.82
1:A:641:LYS:HG2	1:A:647:GLN:HG3	1.60	0.82
1:A:730:SER:O	1:A:734:GLU:HG3	1.78	0.82
1:A:757:GLN:CA	1:A:771:LEU:HD11	2.10	0.82
2:B:141:PRO:CB	2:B:142:PRO:CD	2.56	0.82
1:G:84:MLY:HH21	1:G:720:PHE:HA	1.58	0.82
1:G:543:PRO:HG3	4:V:143:TYR:O	1.78	0.82
1:G:813:ILE:HG21	2:H:128:PHE:CE1	2.12	0.82
1:J:127:ASN:HD22	1:J:128:PRO:HD2	1.44	0.82
1:M:279:LEU:HB2	1:M:282:GLU:HG3	1.60	0.82
1:M:629:GLU:CG	1:M:643:GLY:O	2.26	0.82
1:P:218:LEU:CA	1:P:221:GLN:HG2	2.10	0.82
1:P:725:ARG:CZ	1:P:733:PRO:HB3	2.06	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:734:GLU:O	1:P:738:MET:CG	2.28	0.82
1:D:727:LEU:CB	1:D:782:MLY:HE2	2.10	0.82
1:G:218:LEU:HD22	1:G:222:ILE:CG1	2.10	0.82
1:G:578:HIS:HB3	1:G:592:ILE:HD12	1.62	0.82
1:G:813:ILE:HG23	2:H:128:PHE:HZ	1.36	0.82
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	0.82
1:J:769:ALA:CB	1:J:770:GLY:CA	2.57	0.82
1:M:734:GLU:O	1:M:738:MET:CG	2.28	0.82
1:P:736:GLN:HA	1:P:743:ALA:HB2	1.51	0.82
4:7:290:ARG:NH1	4:9:202:THR:HG21	1.95	0.82
4:8:286:ASP:OD1	4:V:203:THR:CG2	2.26	0.82
4:X:325:MET:SD	4:Z:244:ASP:CG	2.63	0.82
1:A:218:LEU:HD22	1:A:222:ILE:CG1	2.10	0.82
1:D:218:LEU:HB3	1:D:221:GLN:HG3	1.61	0.82
1:J:643:GLY:N	4:W:24:ASP:HA	1.93	0.82
1:J:792:ALA:H	3:L:42:THR:HG22	1.44	0.82
2:K:144:VAL:HG12	2:K:153:ILE:CD1	2.10	0.82
1:M:218:LEU:HD22	1:M:222:ILE:CG1	2.10	0.82
1:A:502:GLU:C	1:A:761:GLY:HA3	2.04	0.82
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.62	0.82
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	0.82
1:J:829:TRP:CH2	2:K:84:PHE:CD1	2.67	0.82
1:P:218:LEU:HB3	1:P:221:GLN:HG3	1.61	0.82
1:P:578:HIS:HB3	1:P:592:ILE:HD12	1.62	0.82
1:P:806:MET:CA	1:P:807:VAL:N	2.43	0.82
1:P:829:TRP:HZ3	2:Q:84:PHE:CZ	1.98	0.82
2:Q:144:VAL:HG12	2:Q:153:ILE:CD1	2.10	0.82
4:8:237:GLU:HA	4:8:251:GLY:HA2	1.60	0.82
1:A:93:MET:CE	1:A:715:VAL:CA	2.34	0.81
1:D:724:TYR:HE1	1:D:778:MET:C	1.87	0.81
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	0.81
2:E:144:VAL:HG12	2:E:153:ILE:CD1	2.10	0.81
1:G:730:SER:O	1:G:734:GLU:HG3	1.79	0.81
1:G:732:ILE:HG23	1:G:747:LEU:CB	1.85	0.81
1:G:769:ALA:O	1:G:773:GLY:CA	2.28	0.81
1:J:599:ASN:CA	1:J:649:VAL:CB	2.53	0.81
1:M:551:MLY:O	4:1:48:GLY:HA3	1.80	0.81
1:M:553:MLY:CG	4:1:43:VAL:HG11	2.09	0.81
1:M:571:ALA:O	1:M:572:LYS:CG	2.28	0.81
1:P:218:LEU:HD22	1:P:222:ILE:CG1	2.10	0.81
1:P:826:VAL:HG21	2:Q:88:LEU:CD2	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.81
4:V:237:GLU:HA	4:V:251:GLY:HA2	1.60	0.81
1:A:549:SER:O	4:V:46:GLY:CA	2.28	0.81
1:D:218:LEU:HA	1:D:221:GLN:HG2	1.61	0.81
1:D:643:GLY:N	4:9:24:ASP:HA	1.93	0.81
1:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.81
1:M:641:LYS:HG2	1:M:647:GLN:HG3	1.61	0.81
1:P:542:PHE:CA	4:0:143:TYR:CE1	2.61	0.81
4:0:243:PRO:C	4:Y:291:LYS:NZ	2.34	0.81
4:1:203:THR:HB	4:Z:287:ILE:CD1	2.06	0.81
4:1:287:ILE:HG21	4:3:202:THR:C	2.05	0.81
1:A:640:LYS:CB	1:A:645:SER:OG	2.25	0.81
1:A:643:GLY:N	4:8:24:ASP:HA	1.93	0.81
1:A:830:PRO:HB2	2:B:51:PHE:CZ	2.14	0.81
1:D:542:PHE:CA	4:9:143:TYR:HE1	1.92	0.81
1:D:549:SER:O	4:W:46:GLY:CA	2.27	0.81
1:D:571:ALA:O	1:D:572:LYS:CG	2.28	0.81
1:D:712:PRO:HD2	1:D:771:LEU:HD13	1.62	0.81
1:D:726:VAL:HG11	1:D:785:GLU:CB	1.97	0.81
1:G:127:ASN:HD22	1:G:128:PRO:HD2	1.45	0.81
1:G:732:ILE:HG21	1:G:747:LEU:HD13	0.91	0.81
2:H:150:TYR:C	2:H:151:LYS:CG	2.48	0.81
1:J:578:HIS:HB3	1:J:592:ILE:HD12	1.61	0.81
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.81
1:M:93:MET:CE	1:M:764:MLY:CD	2.58	0.81
1:M:643:GLY:N	4:Z:24:ASP:HA	1.93	0.81
1:M:782:MLY:HE3	3:O:86:ASP:OD2	1.79	0.81
1:M:829:TRP:HZ3	2:N:84:PHE:CZ	1.98	0.81
1:P:641:LYS:HD2	4:0:348:SER:CA	2.09	0.81
1:P:820:VAL:HG11	2:Q:136:MET:CE	2.10	0.81
1:A:795:ARG:HG2	3:C:118:MET:CE	2.06	0.81
1:G:84:MLY:NZ	1:G:724:TYR:CE2	2.47	0.81
1:G:232:PHE:CZ	1:G:287:ILE:HD13	2.16	0.81
1:J:480:ILE:HG22	1:J:481:ASN:HD22	1.45	0.81
1:J:800:ARG:HH22	3:L:40:ASN:CG	1.86	0.81
1:M:232:PHE:CZ	1:M:287:ILE:HD13	2.16	0.81
1:M:641:LYS:HD2	4:Z:348:SER:CA	2.09	0.81
1:P:215:GLN:N	1:P:340:ILE:CD1	2.44	0.81
1:P:786:ILE:C	1:P:787:ILE:CA	2.53	0.81
4:2:290:ARG:HH21	4:4:202:THR:HG23	1.41	0.81
4:Z:237:GLU:HA	4:Z:251:GLY:HA2	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	0.81
1:D:127:ASN:HD22	1:D:128:PRO:HD2	1.45	0.81
1:D:727:LEU:CG	1:D:782:MLY:CG	2.58	0.81
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.81
1:G:641:LYS:HD2	4:V:348:SER:CA	2.10	0.81
1:G:829:TRP:CH2	2:H:87:LYS:HE2	2.16	0.81
1:J:826:VAL:CG2	2:K:88:LEU:HD21	2.08	0.81
1:M:831:TRP:HE1	2:N:67:MET:CB	1.94	0.81
1:P:795:ARG:HB3	3:R:35:ARG:NH1	1.88	0.81
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.81
1:D:538:GLU:CA	4:9:351:THR:H	1.93	0.81
1:D:550:PHE:CA	4:W:46:GLY:CA	2.59	0.81
1:D:734:GLU:O	1:D:738:MET:CG	2.28	0.81
1:D:800:ARG:HD3	3:F:149:VAL:C	2.06	0.81
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.81
1:J:734:GLU:O	1:J:738:MET:CG	2.28	0.81
1:M:506:GLU:OE2	1:M:761:GLY:HA2	1.80	0.81
1:M:786:ILE:C	1:M:790:THR:H	1.89	0.81
1:P:538:GLU:CA	4:0:351:THR:H	1.93	0.81
1:P:629:GLU:HA	1:P:643:GLY:C	2.05	0.81
1:P:643:GLY:N	4:0:24:ASP:HA	1.93	0.81
4:1:244:ASP:CG	4:Z:322:PRO:CB	2.54	0.81
1:A:505:MLY:HE2	1:A:762:HIS:CG	1.99	0.81
1:A:831:TRP:CZ2	2:B:47:LEU:HA	2.15	0.81
1:G:641:LYS:HG2	1:G:647:GLN:HG3	1.61	0.81
1:G:830:PRO:HB3	2:H:67:MET:CE	2.10	0.81
1:J:641:LYS:HD2	4:W:348:SER:CA	2.09	0.81
1:J:754:ASP:HA	1:J:780:ASP:OD2	1.80	0.81
1:J:817:GLN:HG2	2:K:127:ARG:CB	2.10	0.81
1:J:831:TRP:HZ3	2:K:34:ILE:CD1	1.94	0.81
1:P:733:PRO:C	1:P:737:PHE:HD1	1.88	0.81
1:P:788:THR:O	3:R:42:THR:HG21	1.81	0.81
4:0:201:VAL:N	4:Y:287:ILE:CG1	2.07	0.81
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	0.81
4:W:223:PHE:HE1	4:W:255:PHE:HB2	1.46	0.81
1:A:538:GLU:CA	4:8:351:THR:H	1.93	0.81
2:B:144:VAL:CA	2:B:153:ILE:HD11	2.11	0.81
1:D:85:TYR:HH	1:D:772:LEU:HD22	1.37	0.81
1:D:557:GLU:N	4:W:48:GLY:HA2	1.90	0.81
1:D:578:HIS:HD2	1:D:591:ASN:HA	1.45	0.81
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.88	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:838:ILE:CD1	2:E:54:MET:CE	2.59	0.81
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.81
1:G:732:ILE:HG22	1:G:747:LEU:HD12	0.81	0.81
1:M:538:GLU:CA	4:Z:351:THR:H	1.93	0.81
1:M:629:GLU:HA	1:M:643:GLY:C	2.05	0.81
1:P:732:ILE:HG23	1:P:747:LEU:CB	1.84	0.81
4:8:223:PHE:HE1	4:8:255:PHE:HB2	1.46	0.81
1:A:218:LEU:HA	1:A:221:GLN:HG2	1.62	0.81
1:A:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.81
1:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.81
1:A:799:MET:SD	3:C:32:ASP:HA	2.18	0.81
2:B:114:LYS:HA	2:B:146:GLY:C	2.03	0.81
2:B:144:VAL:HG12	2:B:153:ILE:CD1	2.09	0.81
1:G:646:PHE:CE2	1:G:652:LEU:HD21	2.14	0.81
1:G:817:GLN:HE21	2:H:127:ARG:HB2	1.45	0.81
1:J:732:ILE:HG21	1:J:747:LEU:HD13	0.91	0.81
1:M:84:MLY:NZ	1:M:724:TYR:CE2	2.46	0.81
1:M:127:ASN:HD22	1:M:128:PRO:HD2	1.45	0.81
1:M:578:HIS:HD2	1:M:591:ASN:HA	1.45	0.81
1:P:732:ILE:CG2	1:P:747:LEU:HD13	1.34	0.81
4:7:223:PHE:HE1	4:7:255:PHE:HB2	1.46	0.81
4:9:290:ARG:NH1	4:W:202:THR:HG21	1.95	0.81
1:A:95:THR:HG1	1:A:769:ALA:HA	0.74	0.81
1:A:831:TRP:CZ2	2:B:34:ILE:HG23	2.15	0.81
1:D:218:LEU:CA	1:D:221:GLN:HG2	2.10	0.81
1:D:641:LYS:HD2	4:9:348:SER:CA	2.09	0.81
1:D:712:PRO:HG2	1:D:771:LEU:CB	2.07	0.81
1:G:796:GLY:HA2	3:I:35:ARG:HD3	0.83	0.81
1:M:374:GLN:HG3	1:M:375:ALA:N	1.96	0.81
1:M:409:GLY:N	1:M:636:LYS:CG	2.44	0.81
1:P:836:PHE:CE2	2:Q:160:GLY:HA3	2.15	0.81
1:A:641:LYS:HD2	4:8:348:SER:CA	2.10	0.80
1:A:732:ILE:HG21	1:A:747:LEU:HD13	0.91	0.80
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.80
1:J:538:GLU:CA	4:W:351:THR:H	1.93	0.80
1:M:215:GLN:N	1:M:340:ILE:CD1	2.44	0.80
1:M:542:PHE:CA	4:Z:143:TYR:HE1	1.92	0.80
1:M:721:LYS:CA	1:M:736:GLN:NE2	2.43	0.80
4:V:325:MET:SD	4:X:244:ASP:HB3	2.19	0.80
1:A:550:PHE:CA	4:V:46:GLY:CA	2.59	0.80
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:ARG:HB3	3:F:149:VAL:CG2	2.09	0.80
2:H:121:LEU:CG	2:H:128:PHE:CA	2.49	0.80
1:J:578:HIS:HD2	1:J:591:ASN:HA	1.45	0.80
1:M:578:HIS:HB3	1:M:592:ILE:HD12	1.62	0.80
1:M:599:ASN:CA	1:M:649:VAL:CB	2.53	0.80
1:M:646:PHE:CE2	1:M:652:LEU:HD21	2.15	0.80
1:M:797:PHE:HE2	3:O:126:LEU:HD22	1.46	0.80
1:M:829:TRP:CH2	2:N:87:LYS:HE2	2.16	0.80
2:N:144:VAL:CA	2:N:153:ILE:HD11	2.11	0.80
3:O:49:ILE:N	3:O:52:ASN:ND2	2.29	0.80
1:A:94:MET:O	1:A:713:SER:CB	2.29	0.80
1:A:232:PHE:CZ	1:A:287:ILE:HD13	2.16	0.80
1:D:215:GLN:N	1:D:340:ILE:CD1	2.44	0.80
1:D:724:TYR:CG	1:D:782:MLY:HD3	2.17	0.80
1:D:814:PHE:HA	2:E:127:ARG:HH11	1.44	0.80
1:G:571:ALA:O	1:G:572:LYS:CG	2.28	0.80
1:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.80
1:J:218:LEU:CA	1:J:221:GLN:HG2	2.10	0.80
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	0.80
2:K:141:PRO:CB	2:K:142:PRO:HD2	2.11	0.80
2:K:144:VAL:CA	2:K:153:ILE:HD11	2.11	0.80
1:M:480:ILE:HG22	1:M:481:ASN:HD22	1.45	0.80
1:M:798:LEU:HD23	3:O:122:GLU:HB3	1.62	0.80
1:A:93:MET:HE2	1:A:715:VAL:C	2.06	0.80
1:J:374:GLN:HG3	1:J:375:ALA:N	1.96	0.80
1:J:732:ILE:HG22	1:J:747:LEU:HD12	0.81	0.80
1:P:571:ALA:O	1:P:572:LYS:CG	2.28	0.80
1:A:93:MET:HE2	1:A:715:VAL:CG1	2.10	0.80
1:D:747:LEU:CD2	1:D:782:MLY:HH11	2.10	0.80
1:G:734:GLU:O	1:G:738:MET:CG	2.28	0.80
1:G:796:GLY:N	3:I:35:ARG:NH2	2.30	0.80
1:G:801:VAL:HG21	3:I:126:LEU:HD23	1.61	0.80
1:J:756:THR:HG22	1:J:776:GLU:CG	2.10	0.80
1:J:795:ARG:HH21	3:L:116:GLU:HG2	1.45	0.80
3:L:49:ILE:N	3:L:52:ASN:ND2	2.30	0.80
4:0:288:ASP:HB2	4:2:63:GLY:HA3	0.84	0.80
4:2:223:PHE:HE1	4:2:255:PHE:HB2	1.46	0.80
4:X:223:PHE:HE1	4:X:255:PHE:HB2	1.46	0.80
1:D:529:PRO:C	4:9:354:GLN:CB	2.49	0.80
1:D:578:HIS:HB3	1:D:592:ILE:HD12	1.62	0.80
1:G:553:MLY:CH1	4:X:45:VAL:CG1	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:817:GLN:NE2	2:H:127:ARG:CB	2.43	0.80
1:J:784:ALA:O	1:J:788:THR:N	2.14	0.80
2:K:141:PRO:HB2	2:K:142:PRO:CD	2.12	0.80
1:P:232:PHE:CZ	1:P:287:ILE:HD13	2.16	0.80
1:A:215:GLN:N	1:A:340:ILE:CD1	2.44	0.80
1:A:502:GLU:CD	1:A:764:MLY:O	2.24	0.80
1:A:732:ILE:HG22	1:A:747:LEU:HD12	0.81	0.80
1:A:823:PHE:CE1	2:B:160:GLY:CA	2.65	0.80
3:C:49:ILE:N	3:C:52:ASN:ND2	2.29	0.80
2:E:163:ALA:O	2:K:21:GLU:N	2.14	0.80
2:N:144:VAL:HG12	2:N:153:ILE:CD1	2.09	0.80
1:P:480:ILE:HG22	1:P:481:ASN:HD22	1.45	0.80
1:P:641:LYS:HD2	1:P:647:GLN:OE1	1.81	0.80
1:A:374:GLN:HG3	1:A:375:ALA:N	1.96	0.80
1:A:505:MLY:CG	1:A:762:HIS:CD2	2.65	0.80
1:A:506:GLU:CG	1:A:760:PHE:O	2.25	0.80
1:G:94:MET:O	1:G:713:SER:CB	2.29	0.80
1:G:215:GLN:N	1:G:340:ILE:CD1	2.44	0.80
1:G:506:GLU:CD	1:G:760:PHE:O	2.25	0.80
1:G:542:PHE:CA	4:V:143:TYR:HE1	1.93	0.80
1:G:578:HIS:HD2	1:G:591:ASN:HA	1.44	0.80
1:P:795:ARG:HH22	3:R:116:GLU:CG	1.95	0.80
4:5:223:PHE:HE1	4:5:255:PHE:HB2	1.46	0.80
1:A:734:GLU:O	1:A:738:MET:CG	2.28	0.80
1:A:768:MLY:HG2	1:A:771:LEU:CD1	2.02	0.80
1:A:791:GLN:HE22	3:C:115:GLY:HA3	1.42	0.80
1:A:823:PHE:CE1	2:B:160:GLY:HA2	2.16	0.80
1:A:831:TRP:HZ3	2:B:34:ILE:HG12	1.39	0.80
1:D:713:SER:HB2	1:D:775:LEU:CD2	2.11	0.80
1:G:732:ILE:CG2	1:G:747:LEU:HD13	1.34	0.80
1:J:232:PHE:CZ	1:J:287:ILE:HD13	2.16	0.80
1:J:800:ARG:HD3	3:L:149:VAL:C	2.07	0.80
1:P:578:HIS:HD2	1:P:591:ASN:HA	1.45	0.80
2:Q:144:VAL:CA	2:Q:153:ILE:HD11	2.11	0.80
1:A:480:ILE:HG22	1:A:481:ASN:HD22	1.45	0.80
1:D:95:THR:O	1:D:770:GLY:N	2.14	0.80
2:E:111:SER:OG	2:E:148:VAL:C	2.15	0.80
4:0:173:HIS:CD2	4:1:268:GLY:HA3	2.17	0.80
4:4:223:PHE:HE1	4:4:255:PHE:HB2	1.46	0.80
1:A:578:HIS:HD2	1:A:591:ASN:HA	1.45	0.79
2:B:141:PRO:CB	2:B:142:PRO:HD2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:232:PHE:CZ	1:D:287:ILE:HD13	2.16	0.79
1:D:480:ILE:HG22	1:D:481:ASN:HD22	1.45	0.79
1:D:724:TYR:HB3	1:D:782:MLY:NZ	1.97	0.79
1:G:218:LEU:HA	1:G:221:GLN:HG2	1.62	0.79
1:G:374:GLN:HG3	1:G:375:ALA:N	1.96	0.79
1:G:599:ASN:CA	1:G:649:VAL:CB	2.53	0.79
1:G:817:GLN:HG2	2:H:127:ARG:HB2	1.52	0.79
1:J:831:TRP:HH2	2:K:47:LEU:HD21	1.47	0.79
4:V:223:PHE:HE1	4:V:255:PHE:HB2	1.46	0.79
1:A:93:MET:CE	1:A:716:LEU:N	2.45	0.79
1:A:501:GLU:HA	1:A:762:HIS:CE1	2.16	0.79
1:A:641:LYS:CE	1:A:647:GLN:CG	2.60	0.79
2:B:141:PRO:HB2	2:B:142:PRO:CD	2.12	0.79
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.79
1:J:756:THR:HG22	1:J:776:GLU:OE1	1.81	0.79
2:N:141:PRO:CB	2:N:142:PRO:HD2	2.12	0.79
1:P:732:ILE:HG22	1:P:747:LEU:HD12	0.81	0.79
4:1:287:ILE:HG13	4:3:202:THR:HA	1.64	0.79
4:1:288:ASP:N	4:3:203:THR:CG2	2.45	0.79
4:X:324:THR:HG21	4:Z:246:GLN:C	2.07	0.79
1:A:795:ARG:NE	3:C:116:GLU:OE2	2.16	0.79
2:E:144:VAL:CA	2:E:153:ILE:HD11	2.11	0.79
1:G:84:MLY:HH11	1:G:724:TYR:CE2	2.16	0.79
1:G:93:MET:HE2	1:G:764:MLY:CD	1.88	0.79
1:G:795:ARG:CB	3:I:35:ARG:NH1	2.33	0.79
2:H:141:PRO:CB	2:H:142:PRO:HD2	2.12	0.79
1:J:571:ALA:O	1:J:572:LYS:CG	2.28	0.79
1:J:756:THR:CG2	1:J:776:GLU:CB	2.61	0.79
1:M:791:GLN:NE2	3:O:114:LEU:O	2.15	0.79
1:P:797:PHE:HE1	3:R:146:ILE:O	1.62	0.79
2:Q:141:PRO:CB	2:Q:142:PRO:HD2	2.11	0.79
1:A:571:ALA:O	1:A:572:LYS:CG	2.28	0.79
1:A:795:ARG:HH22	3:C:116:GLU:CD	1.90	0.79
1:A:797:PHE:CD1	3:C:146:ILE:CG2	2.66	0.79
1:D:721:LYS:CA	1:D:736:GLN:NE2	2.43	0.79
3:F:49:ILE:N	3:F:52:ASN:ND2	2.29	0.79
1:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	0.79
2:H:141:PRO:HB2	2:H:142:PRO:CD	2.11	0.79
1:M:95:THR:CA	1:M:713:SER:HB3	2.13	0.79
1:M:553:MLY:HG3	4:1:43:VAL:HG11	1.64	0.79
1:M:553:MLY:HG2	4:1:43:VAL:HG21	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:141:PRO:HB2	2:N:142:PRO:CD	2.12	0.79
2:Q:141:PRO:HB2	2:Q:142:PRO:CD	2.11	0.79
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	0.79
2:E:141:PRO:HB2	2:E:142:PRO:CD	2.12	0.79
1:G:769:ALA:HB1	1:G:770:GLY:HA2	1.62	0.79
1:M:733:PRO:C	1:M:737:PHE:HD1	1.88	0.79
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.79
1:A:174:SER:CB	1:A:667:THR:HG21	2.13	0.79
1:A:798:LEU:CD2	3:C:126:LEU:HD11	2.12	0.79
1:A:800:ARG:NH2	3:C:40:ASN:OD1	2.16	0.79
1:D:732:ILE:HG22	1:D:747:LEU:HD12	0.81	0.79
2:E:141:PRO:CB	2:E:142:PRO:HD2	2.12	0.79
1:G:789:ALA:CB	3:I:81:GLN:NE2	2.46	0.79
1:G:796:GLY:HA2	3:I:35:ARG:NE	1.96	0.79
2:H:144:VAL:CA	2:H:153:ILE:HD11	2.11	0.79
1:J:721:LYS:CA	1:J:736:GLN:NE2	2.43	0.79
1:M:537:GLU:O	4:Z:350:SER:N	2.16	0.79
1:P:503:TYR:HE1	1:P:711:PHE:CD2	2.01	0.79
4:0:223:PHE:HE1	4:0:255:PHE:HB2	1.46	0.79
4:Y:223:PHE:HE1	4:Y:255:PHE:HB2	1.46	0.79
1:A:409:GLY:N	1:A:636:LYS:CG	2.44	0.79
1:A:550:PHE:N	4:V:46:GLY:HA3	1.97	0.79
1:A:599:ASN:CA	1:A:649:VAL:CB	2.53	0.79
1:A:793:ARG:HH21	3:C:147:MET:HE3	0.65	0.79
1:D:550:PHE:HA	4:W:46:GLY:HA2	1.64	0.79
3:I:49:ILE:N	3:I:52:ASN:ND2	2.29	0.79
1:M:819:ASN:CB	2:N:90:GLY:O	2.30	0.79
1:P:785:GLU:HG3	3:R:81:GLN:HG3	1.49	0.79
4:3:223:PHE:HE1	4:3:255:PHE:HB2	1.46	0.79
1:A:502:GLU:HG2	1:A:764:MLY:O	1.83	0.79
1:D:409:GLY:N	1:D:636:LYS:CG	2.44	0.79
1:D:537:GLU:O	4:9:350:SER:N	2.16	0.79
1:D:641:LYS:CE	1:D:647:GLN:HB2	2.13	0.79
1:D:798:LEU:CD1	3:F:126:LEU:HD13	2.11	0.79
1:G:92:ALA:O	1:G:714:ARG:CG	2.30	0.79
1:G:537:GLU:O	4:V:350:SER:N	2.16	0.79
1:G:791:GLN:CD	3:I:116:GLU:HG3	2.08	0.79
1:M:218:LEU:CA	1:M:221:GLN:HG2	2.10	0.79
1:M:642:LYS:HG2	4:Z:22:ALA:HA	1.65	0.79
1:M:732:ILE:HG22	1:M:747:LEU:HD12	0.81	0.79
1:P:529:PRO:C	4:0:354:GLN:CB	2.49	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:GLU:O	4:8:350:SER:N	2.16	0.79
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	0.79
1:D:407:GLY:HA2	1:D:412:ALA:HA	1.65	0.79
2:E:162:ASP:O	2:K:21:GLU:CB	2.31	0.79
1:G:174:SER:CB	1:G:667:THR:HG21	2.13	0.79
1:G:506:GLU:OE2	1:G:760:PHE:O	1.99	0.79
1:J:291:ILE:HA	1:J:331:LEU:HD11	1.64	0.79
1:J:829:TRP:CZ2	2:K:87:LYS:CE	2.64	0.79
1:P:730:SER:CB	3:R:92:ARG:C	2.53	0.79
2:Q:121:LEU:CG	2:Q:128:PHE:CA	2.48	0.79
3:R:49:ILE:N	3:R:52:ASN:ND2	2.29	0.79
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.79
1:A:800:ARG:HD2	3:C:149:VAL:O	1.83	0.79
1:D:800:ARG:NH2	3:F:40:ASN:OD1	2.16	0.79
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	0.79
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.79
1:G:795:ARG:CB	3:I:118:MET:HE1	2.13	0.79
1:J:83:PRO:O	1:J:723:ARG:NH2	2.14	0.79
1:M:735:GLY:C	1:M:743:ALA:HB1	1.84	0.79
1:M:792:ALA:HB2	3:O:42:THR:CG2	2.13	0.79
1:P:721:LYS:CB	1:P:736:GLN:CD	2.56	0.79
1:A:642:LYS:HG2	4:8:22:ALA:HA	1.65	0.78
1:J:407:GLY:HA2	1:J:412:ALA:HA	1.65	0.78
1:J:639:GLY:CA	4:W:345:ILE:N	2.47	0.78
2:K:117:LEU:HB2	2:K:147:ASN:HD21	1.47	0.78
1:P:409:GLY:N	1:P:636:LYS:CG	2.44	0.78
1:P:826:VAL:HG21	2:Q:88:LEU:HD21	1.66	0.78
4:X:325:MET:SD	4:Z:244:ASP:CB	2.71	0.78
1:A:542:PHE:CA	4:8:143:TYR:HE1	1.92	0.78
1:D:732:ILE:CG2	1:D:747:LEU:HD13	1.34	0.78
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	0.78
1:G:757:GLN:CG	1:G:776:GLU:CD	2.56	0.78
1:G:796:GLY:CA	3:I:35:ARG:CD	2.43	0.78
1:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.78
1:J:818:TYR:CD1	2:K:127:ARG:NH1	2.51	0.78
1:M:84:MLY:CH2	1:M:719:ASP:C	2.55	0.78
1:M:641:LYS:HD2	1:M:647:GLN:OE1	1.81	0.78
1:M:838:ILE:HD11	2:N:54:MET:SD	2.23	0.78
1:P:84:MLY:HH11	1:P:724:TYR:CE2	2.17	0.78
1:P:174:SER:CB	1:P:667:THR:HG21	2.13	0.78
1:P:798:LEU:HD12	3:R:126:LEU:HD21	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:ARG:NH2	3:C:40:ASN:CG	2.41	0.78
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.78
1:D:721:LYS:CB	1:D:736:GLN:CD	2.56	0.78
1:J:537:GLU:O	4:W:350:SER:N	2.16	0.78
1:P:797:PHE:CD1	3:R:149:VAL:CG1	2.66	0.78
1:A:218:LEU:CA	1:A:221:GLN:HG2	2.10	0.78
1:A:553:MLY:NZ	4:V:45:VAL:HA	1.84	0.78
1:A:815:CYS:O	2:B:90:GLY:O	2.01	0.78
1:D:166:MET:HE1	1:D:254:PHE:CD2	2.19	0.78
1:D:481:ASN:HD22	1:D:481:ASN:N	1.82	0.78
1:D:646:PHE:CE2	1:D:652:LEU:HD21	2.14	0.78
1:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.78
1:G:407:GLY:HA2	1:G:412:ALA:HA	1.65	0.78
1:G:798:LEU:HG	3:I:122:GLU:HB3	1.64	0.78
1:J:409:GLY:N	1:J:636:LYS:CG	2.44	0.78
1:J:530:MET:CG	4:W:354:GLN:CB	2.30	0.78
1:M:149:GLN:CD	1:M:763:THR:HG21	2.07	0.78
1:M:291:ILE:HA	1:M:331:LEU:HD11	1.64	0.78
1:P:646:PHE:HE2	1:P:652:LEU:CD2	1.97	0.78
1:P:829:TRP:CH2	2:Q:87:LYS:NZ	2.49	0.78
2:Q:114:LYS:HA	2:Q:146:GLY:C	2.03	0.78
4:1:203:THR:CG2	4:Z:288:ASP:N	2.46	0.78
1:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.78
1:D:721:LYS:HG2	1:D:736:GLN:CD	1.86	0.78
1:G:754:ASP:CA	1:G:779:ARG:HD3	2.04	0.78
1:G:836:PHE:CE1	2:H:159:HIS:HA	2.18	0.78
1:J:166:MET:HE1	1:J:254:PHE:CD2	2.19	0.78
1:J:174:SER:CB	1:J:667:THR:HG21	2.13	0.78
1:J:646:PHE:HE2	1:J:652:LEU:CD2	1.97	0.78
1:M:34:ALA:HB1	1:M:777:GLU:OE2	1.83	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:537:GLU:O	4:0:350:SER:N	2.16	0.78
4:1:223:PHE:HE1	4:1:255:PHE:HB2	1.46	0.78
4:7:287:ILE:HB	4:9:204:ALA:N	1.98	0.78
4:9:287:ILE:HB	4:W:204:ALA:N	1.97	0.78
1:A:166:MET:HE1	1:A:254:PHE:CD2	2.19	0.78
1:A:550:PHE:HA	4:V:46:GLY:HA2	1.65	0.78
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	0.78
1:G:166:MET:HE1	1:G:254:PHE:CD2	2.19	0.78
1:G:641:LYS:HD2	4:V:348:SER:HB2	1.54	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:646:PHE:HE2	1:G:652:LEU:CD2	1.97	0.78
1:G:752:ASP:OD1	1:G:783:LEU:HB2	1.84	0.78
1:M:635:GLY:HA3	4:Z:341:ILE:CD1	2.14	0.78
1:M:646:PHE:HE2	1:M:652:LEU:CD2	1.97	0.78
1:M:732:ILE:HG21	1:M:747:LEU:HD13	0.90	0.78
1:M:797:PHE:CD1	3:O:146:ILE:O	2.37	0.78
1:M:804:ARG:O	1:M:808:GLU:HG3	1.84	0.78
1:M:806:MET:CA	1:M:807:VAL:N	2.46	0.78
1:P:291:ILE:HA	1:P:331:LEU:HD11	1.64	0.78
1:P:374:GLN:HG3	1:P:375:ALA:N	1.96	0.78
4:2:322:PRO:HB2	4:4:244:ASP:HB2	1.66	0.78
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.78
1:D:712:PRO:CB	1:D:771:LEU:CB	2.61	0.78
1:D:798:LEU:HD13	3:F:126:LEU:CD1	1.94	0.78
1:G:642:LYS:HG2	4:V:22:ALA:HA	1.65	0.78
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	0.78
1:J:51:THR:O	1:J:62:VAL:HG13	1.84	0.78
1:J:641:LYS:CE	1:J:647:GLN:HB2	2.13	0.78
1:M:641:LYS:CE	1:M:647:GLN:HB2	2.13	0.78
4:0:205:GLU:OE2	4:Y:287:ILE:CG2	2.08	0.78
1:A:496:PHE:CD2	1:A:514:ASP:HA	2.19	0.78
1:A:502:GLU:O	1:A:761:GLY:HA2	1.84	0.78
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.62	0.78
1:G:219:GLU:O	1:G:223:ILE:HG13	1.84	0.78
1:M:95:THR:HA	1:M:713:SER:OG	1.84	0.78
1:M:545:ALA:HA	4:1:45:VAL:HG13	1.62	0.78
4:3:288:ASP:N	4:5:203:THR:CG2	2.46	0.78
1:A:131:TRP:C	1:A:132:LEU:HD12	2.09	0.78
1:G:28:GLN:HB3	1:G:723:ARG:HH12	1.46	0.78
1:G:51:THR:O	1:G:62:VAL:HG13	1.84	0.78
1:G:409:GLY:N	1:G:636:LYS:CG	2.44	0.78
1:J:149:GLN:OE1	1:J:763:THR:HG21	1.84	0.78
1:J:710:GLY:C	1:J:772:LEU:HD23	2.08	0.78
1:M:218:LEU:HA	1:M:221:GLN:HG2	1.62	0.78
1:M:219:GLU:O	1:M:223:ILE:HG13	1.84	0.78
1:M:530:MET:CG	4:Z:354:GLN:CB	2.30	0.78
1:M:817:GLN:HB3	2:N:127:ARG:HD3	1.66	0.78
1:P:407:GLY:HA2	1:P:412:ALA:HA	1.65	0.78
1:P:496:PHE:CD2	1:P:514:ASP:HA	2.19	0.78
4:2:290:ARG:NH2	4:4:202:THR:HG21	1.60	0.78
4:3:322:PRO:CB	4:5:244:ASP:CG	2.54	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:223:PHE:HD2	4:4:312:ARG:HH21	1.32	0.78
4:Z:223:PHE:HE1	4:Z:255:PHE:HB2	1.46	0.78
1:A:219:GLU:O	1:A:223:ILE:HG13	1.84	0.78
1:A:407:GLY:HA2	1:A:412:ALA:HA	1.65	0.78
1:A:641:LYS:HD2	4:8:348:SER:HB2	1.54	0.78
3:C:3:SER:O	3:C:4:LYS:HB2	1.84	0.78
1:D:795:ARG:NH2	3:F:116:GLU:HG2	1.95	0.78
1:M:131:TRP:C	1:M:132:LEU:HD12	2.09	0.78
1:M:553:MLY:HA	4:1:43:VAL:HG11	1.64	0.78
1:P:166:MET:HE1	1:P:254:PHE:CD2	2.19	0.78
1:P:599:ASN:CA	1:P:649:VAL:CB	2.53	0.78
4:1:324:THR:HG23	4:3:244:ASP:CA	2.14	0.78
4:1:324:THR:CG2	4:3:244:ASP:CA	2.59	0.78
1:G:291:ILE:HA	1:G:331:LEU:HD11	1.64	0.77
1:G:496:PHE:CD2	1:G:514:ASP:HA	2.19	0.77
1:J:496:PHE:CD2	1:J:514:ASP:HA	2.19	0.77
1:M:407:GLY:HA2	1:M:412:ALA:HA	1.65	0.77
1:M:496:PHE:CD2	1:M:514:ASP:HA	2.19	0.77
1:M:733:PRO:C	1:M:737:PHE:CD1	2.62	0.77
1:M:767:PHE:CE1	1:M:772:LEU:HD22	2.19	0.77
1:P:290:GLN:C	1:P:331:LEU:HD12	2.09	0.77
1:P:641:LYS:CE	1:P:647:GLN:HB2	2.13	0.77
4:3:322:PRO:HB3	4:5:244:ASP:CB	2.10	0.77
1:A:639:GLY:CA	4:8:345:ILE:N	2.47	0.77
3:C:49:ILE:N	3:C:52:ASN:HD22	1.82	0.77
1:J:530:MET:HE2	4:W:354:GLN:HG3	1.61	0.77
1:P:552:ASN:ND2	4:2:49:GLN:HG3	1.82	0.77
1:P:707:CYS:SG	1:P:714:ARG:NH1	2.57	0.77
1:P:733:PRO:C	1:P:737:PHE:CD1	2.62	0.77
4:X:291:LYS:CE	4:Z:243:PRO:HB3	2.14	0.77
1:G:148:ARG:NH2	1:G:764:MLY:HH21	1.99	0.77
1:G:639:GLY:CA	4:V:345:ILE:N	2.47	0.77
1:G:641:LYS:CE	1:G:647:GLN:HB2	2.13	0.77
1:J:646:PHE:CE2	1:J:652:LEU:HD21	2.14	0.77
1:M:84:MLY:CH1	1:M:724:TYR:CE2	2.67	0.77
1:M:218:LEU:HD22	1:M:222:ILE:HG12	1.67	0.77
1:M:796:GLY:HA2	3:O:35:ARG:CD	2.13	0.77
1:P:116:TYR:O	1:P:153:PRO:HB2	1.85	0.77
1:P:721:LYS:CA	1:P:736:GLN:NE2	2.43	0.77
4:0:223:PHE:HD2	4:0:312:ARG:HH21	1.33	0.77
4:0:243:PRO:HG2	4:Y:288:ASP:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:SER:CB	1:D:667:THR:HG21	2.13	0.77
1:D:795:ARG:CB	3:F:35:ARG:HH12	1.89	0.77
1:G:503:TYR:HE1	1:G:711:PHE:CD2	2.00	0.77
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.77
1:M:51:THR:O	1:M:62:VAL:HG13	1.84	0.77
1:M:166:MET:HE1	1:M:254:PHE:CD2	2.19	0.77
1:M:821:ARG:NH2	2:N:127:ARG:CG	2.46	0.77
1:P:51:THR:O	1:P:62:VAL:HG13	1.84	0.77
1:P:219:GLU:O	1:P:223:ILE:HG13	1.84	0.77
1:P:817:GLN:HB3	2:Q:127:ARG:HD3	1.63	0.77
1:A:725:ARG:HG3	1:A:733:PRO:HA	1.67	0.77
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.77
1:D:818:TYR:CB	2:E:90:GLY:N	2.44	0.77
1:G:218:LEU:HD22	1:G:222:ILE:HG12	1.66	0.77
1:J:116:TYR:O	1:J:153:PRO:HB2	1.85	0.77
1:J:769:ALA:HB2	1:J:770:GLY:CA	2.14	0.77
1:J:799:MET:SD	3:L:32:ASP:OD2	2.42	0.77
1:M:534:SER:C	4:Z:351:THR:CA	2.47	0.77
1:P:639:GLY:CA	4:0:345:ILE:N	2.47	0.77
4:0:205:GLU:CG	4:Y:287:ILE:CB	2.03	0.77
4:Y:223:PHE:HD2	4:Y:312:ARG:HH21	1.33	0.77
1:A:646:PHE:HE2	1:A:652:LEU:CD2	1.97	0.77
1:D:51:THR:O	1:D:62:VAL:HG13	1.84	0.77
1:D:639:GLY:CA	4:9:345:ILE:N	2.47	0.77
1:D:723:ARG:NH2	1:D:779:ARG:NH2	2.32	0.77
1:D:727:LEU:CA	1:D:782:MLY:HH13	2.14	0.77
1:M:35:MLY:HH21	1:M:778:MET:CG	2.09	0.77
1:M:826:VAL:HG21	2:N:88:LEU:CD2	2.14	0.77
1:P:131:TRP:C	1:P:132:LEU:HD12	2.09	0.77
1:P:831:TRP:HE1	2:Q:67:MET:CB	1.98	0.77
4:0:245:GLY:H	4:Y:291:LYS:HB2	1.49	0.77
4:1:324:THR:CB	4:3:244:ASP:HA	2.14	0.77
4:5:223:PHE:HD2	4:5:312:ARG:HH21	1.32	0.77
4:9:223:PHE:HD2	4:9:312:ARG:HH21	1.33	0.77
1:A:291:ILE:HA	1:A:331:LEU:HD11	1.64	0.77
1:A:732:ILE:N	1:A:733:PRO:HD2	2.00	0.77
1:D:94:MET:CE	1:D:101:ALA:HB1	2.15	0.77
1:D:116:TYR:O	1:D:153:PRO:HB2	1.85	0.77
1:D:496:PHE:CD2	1:D:514:ASP:HA	2.19	0.77
1:G:116:TYR:O	1:G:153:PRO:HB2	1.85	0.77
1:G:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:754:ASP:CB	1:G:776:GLU:HA	2.15	0.77
1:J:795:ARG:HB3	3:L:35:ARG:NH2	2.00	0.77
1:A:815:CYS:SG	2:B:92:ASP:HB2	2.25	0.77
1:D:769:ALA:C	1:D:774:LEU:HB2	2.08	0.77
1:D:836:PHE:CZ	2:E:160:GLY:N	2.53	0.77
1:J:131:TRP:C	1:J:132:LEU:HD12	2.09	0.77
1:J:219:GLU:O	1:J:223:ILE:HG13	1.84	0.77
2:K:121:LEU:CG	2:K:128:PHE:HA	2.14	0.77
1:M:290:GLN:C	1:M:331:LEU:HD12	2.09	0.77
4:1:203:THR:CG2	4:Z:288:ASP:H	1.98	0.77
4:3:288:ASP:H	4:5:203:THR:CG2	1.98	0.77
4:W:223:PHE:HD2	4:W:312:ARG:HH21	1.33	0.77
1:A:768:MLY:HB3	1:A:771:LEU:CD1	2.15	0.77
2:B:121:LEU:CG	2:B:128:PHE:HA	2.14	0.77
1:D:635:GLY:HA3	4:9:341:ILE:CD1	2.14	0.77
1:G:818:TYR:HB3	2:H:90:GLY:HA3	1.66	0.77
1:J:93:MET:HE1	1:J:716:LEU:CD1	2.14	0.77
1:J:635:GLY:HA3	4:W:341:ILE:CD1	2.14	0.77
1:J:834:LEU:CD1	2:K:51:PHE:CE1	2.68	0.77
1:M:786:ILE:CA	1:M:787:ILE:N	2.48	0.77
1:M:795:ARG:CZ	3:O:116:GLU:OE2	2.33	0.77
1:M:797:PHE:CE2	3:O:126:LEU:HD22	2.19	0.77
1:P:721:LYS:CA	1:P:736:GLN:OE1	2.33	0.77
4:0:166:TYR:OH	4:2:64:ILE:HD13	1.85	0.77
4:X:223:PHE:HD2	4:X:312:ARG:HH21	1.32	0.77
1:A:149:GLN:CG	1:A:719:ASP:H	1.97	0.77
1:A:641:LYS:CE	1:A:647:GLN:HB2	2.13	0.77
1:A:707:CYS:HA	1:A:714:ARG:HH12	0.96	0.77
1:D:290:GLN:C	1:D:331:LEU:HD12	2.09	0.77
1:D:641:LYS:CE	1:D:647:GLN:CG	2.60	0.77
2:E:121:LEU:CG	2:E:128:PHE:CA	2.48	0.77
3:F:3:SER:O	3:F:4:LYS:HB2	1.84	0.77
1:G:530:MET:CG	4:V:354:GLN:CB	2.30	0.77
1:M:506:GLU:HG2	1:M:760:PHE:O	1.85	0.77
1:M:721:LYS:CA	1:M:736:GLN:OE1	2.33	0.77
2:N:114:LYS:HA	2:N:146:GLY:C	2.03	0.77
1:P:725:ARG:HG3	1:P:733:PRO:HA	1.67	0.77
1:P:729:ALA:CB	3:R:93:VAL:HG23	2.11	0.77
1:P:829:TRP:CH2	2:Q:87:LYS:CE	2.67	0.77
1:P:836:PHE:CE1	2:Q:160:GLY:N	2.51	0.77
4:2:223:PHE:HD2	4:2:312:ARG:HH21	1.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:223:PHE:HD2	4:3:312:ARG:HH21	1.33	0.77
4:7:223:PHE:HD2	4:7:312:ARG:HH21	1.32	0.77
1:A:290:GLN:C	1:A:331:LEU:HD12	2.09	0.76
1:A:529:PRO:C	4:8:354:GLN:CB	2.49	0.76
1:D:642:LYS:HG2	4:9:22:ALA:HA	1.65	0.76
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.76
1:J:641:LYS:CE	1:J:647:GLN:CG	2.60	0.76
1:J:710:GLY:O	1:J:772:LEU:CB	2.32	0.76
1:M:84:MLY:HA	1:M:723:ARG:CZ	2.15	0.76
1:M:217:THR:C	1:M:221:GLN:HE21	1.92	0.76
1:P:94:MET:CE	1:P:101:ALA:HB1	2.15	0.76
1:P:530:MET:CG	4:0:354:GLN:CB	2.30	0.76
4:8:223:PHE:HD2	4:8:312:ARG:HH21	1.33	0.76
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:D:727:LEU:H	1:D:782:MLY:CE	1.97	0.76
2:E:121:LEU:CG	2:E:128:PHE:HA	2.14	0.76
1:G:290:GLN:C	1:G:331:LEU:HD12	2.09	0.76
1:J:84:MLY:HH21	1:J:720:PHE:C	2.10	0.76
1:J:94:MET:CE	1:J:101:ALA:HB1	2.15	0.76
1:J:218:LEU:HD22	1:J:222:ILE:HG12	1.67	0.76
1:J:567:LYS:HZ1	4:Y:92:ASN:HD22	1.33	0.76
1:J:725:ARG:HG3	1:J:733:PRO:HA	1.67	0.76
1:M:93:MET:HA	1:M:714:ARG:H	1.48	0.76
1:M:639:GLY:CA	4:Z:345:ILE:N	2.46	0.76
1:M:725:ARG:HG3	1:M:733:PRO:HA	1.67	0.76
1:P:635:GLY:HA3	4:0:341:ILE:CD1	2.14	0.76
4:1:244:ASP:HB2	4:Z:322:PRO:CB	2.14	0.76
4:3:324:THR:CG2	4:5:244:ASP:C	2.55	0.76
1:A:217:THR:C	1:A:221:GLN:HE21	1.93	0.76
1:D:219:GLU:O	1:D:223:ILE:HG13	1.84	0.76
1:D:534:SER:O	4:9:351:THR:N	2.19	0.76
1:M:786:ILE:O	1:M:789:ALA:HB3	1.85	0.76
1:M:820:VAL:HG11	2:N:136:MET:CE	2.14	0.76
1:P:481:ASN:HD22	1:P:481:ASN:N	1.82	0.76
1:P:506:GLU:HG3	1:P:760:PHE:H	1.47	0.76
1:P:642:LYS:HG2	4:0:22:ALA:HA	1.65	0.76
1:P:783:LEU:CA	1:P:786:ILE:HG13	2.15	0.76
1:P:799:MET:SD	3:R:32:ASP:HB3	2.25	0.76
4:1:223:PHE:HD2	4:1:312:ARG:HH21	1.33	0.76
4:X:291:LYS:CE	4:Z:243:PRO:CB	2.63	0.76
1:D:131:TRP:C	1:D:132:LEU:HD12	2.09	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:727:LEU:CG	1:D:782:MLY:CH1	2.60	0.76
1:G:218:LEU:HB2	1:G:221:GLN:CG	2.09	0.76
1:J:623:PHE:CG	1:J:623:PHE:CA	2.68	0.76
1:J:721:LYS:CA	1:J:736:GLN:OE1	2.33	0.76
1:J:820:VAL:CG1	2:K:136:MET:HE1	2.16	0.76
1:M:94:MET:CE	1:M:101:ALA:HB1	2.15	0.76
1:M:530:MET:HE2	4:Z:354:GLN:HG3	1.62	0.76
1:M:785:GLU:O	1:M:789:ALA:HB2	1.86	0.76
4:2:324:THR:HG21	4:4:243:PRO:C	2.11	0.76
1:A:218:LEU:HD22	1:A:222:ILE:HG12	1.67	0.76
1:A:505:MLY:HD3	1:A:762:HIS:HA	0.76	0.76
1:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.76
1:D:217:THR:C	1:D:221:GLN:HE21	1.92	0.76
1:D:537:GLU:HG3	4:9:350:SER:O	1.79	0.76
2:H:121:LEU:CG	2:H:128:PHE:HA	2.14	0.76
1:J:834:LEU:CD1	2:K:51:PHE:HE1	1.98	0.76
1:M:732:ILE:N	1:M:733:PRO:HD2	2.00	0.76
2:N:121:LEU:CG	2:N:128:PHE:HA	2.14	0.76
3:O:3:SER:O	3:O:4:LYS:HB2	1.85	0.76
1:P:646:PHE:CE2	1:P:652:LEU:HD21	2.14	0.76
1:P:782:MLY:HH22	3:R:80:ASP:O	1.86	0.76
3:R:3:SER:O	3:R:4:LYS:HB2	1.85	0.76
4:V:223:PHE:HD2	4:V:312:ARG:HH21	1.33	0.76
1:A:116:TYR:O	1:A:153:PRO:HB2	1.85	0.76
1:A:623:PHE:CG	1:A:623:PHE:CA	2.68	0.76
1:D:623:PHE:CG	1:D:623:PHE:CA	2.68	0.76
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.76
1:G:792:ALA:HA	3:I:42:THR:HA	1.67	0.76
1:G:795:ARG:HA	3:I:118:MET:CE	2.15	0.76
1:J:290:GLN:C	1:J:331:LEU:HD12	2.09	0.76
1:J:818:TYR:CZ	2:K:127:ARG:NH2	2.40	0.76
3:L:49:ILE:N	3:L:52:ASN:HD22	1.83	0.76
1:M:116:TYR:O	1:M:153:PRO:HB2	1.85	0.76
1:M:546:THR:O	4:1:46:GLY:HA2	1.84	0.76
1:M:664:LEU:O	1:M:667:THR:HB	1.86	0.76
1:P:623:PHE:CG	1:P:623:PHE:CA	2.68	0.76
4:1:244:ASP:CB	4:Z:322:PRO:HB3	2.10	0.76
4:1:288:ASP:OD1	4:3:203:THR:HG23	1.84	0.76
4:9:290:ARG:NH1	4:W:202:THR:CG2	2.49	0.76
4:Z:223:PHE:HD2	4:Z:312:ARG:HH21	1.33	0.76
1:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:CD	3:F:35:ARG:HH12	1.98	0.76
1:J:217:THR:C	1:J:221:GLN:HE21	1.92	0.76
1:J:733:PRO:C	1:J:737:PHE:CD1	2.62	0.76
1:J:756:THR:HG22	1:J:776:GLU:HB3	1.67	0.76
1:M:795:ARG:HB3	3:O:35:ARG:CZ	2.13	0.76
1:M:797:PHE:CE2	3:O:146:ILE:HD12	2.20	0.76
1:P:217:THR:C	1:P:221:GLN:HE21	1.92	0.76
1:P:218:LEU:HD22	1:P:222:ILE:HG12	1.67	0.76
4:W:291:LYS:HB3	4:Y:244:ASP:HB3	1.66	0.76
1:A:218:LEU:HB3	1:A:221:GLN:HG3	1.61	0.76
1:A:505:MLY:CD	1:A:762:HIS:CA	2.22	0.76
1:A:735:GLY:C	1:A:743:ALA:HB1	1.84	0.76
1:A:831:TRP:HZ3	2:B:50:THR:HG21	0.83	0.76
1:G:28:GLN:O	1:G:723:ARG:NH2	2.19	0.76
1:G:534:SER:C	4:V:351:THR:CA	2.48	0.76
1:G:641:LYS:HD2	1:G:647:GLN:OE1	1.81	0.76
1:G:817:GLN:CB	2:H:127:ARG:CD	2.63	0.76
1:A:218:LEU:HB2	1:A:221:GLN:CG	2.09	0.76
1:D:553:MLY:NZ	4:W:45:VAL:HA	1.84	0.76
1:D:664:LEU:O	1:D:667:THR:HB	1.86	0.76
1:D:721:LYS:CA	1:D:736:GLN:OE1	2.33	0.76
1:D:732:ILE:N	1:D:733:PRO:HD2	2.00	0.76
1:G:94:MET:CE	1:G:101:ALA:HB1	2.15	0.76
1:J:795:ARG:HD2	3:L:43:ASN:CG	2.08	0.76
1:J:830:PRO:CB	2:K:67:MET:HE2	2.15	0.76
1:P:641:LYS:CE	1:P:647:GLN:CG	2.61	0.76
4:0:166:TYR:CE1	4:2:64:ILE:HG21	2.21	0.76
4:8:290:ARG:NH1	4:V:202:THR:CG2	2.49	0.76
1:A:93:MET:CE	1:A:715:VAL:CG1	2.62	0.76
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.64	0.76
1:D:649:VAL:CG1	1:D:649:VAL:CB	2.64	0.76
1:D:831:TRP:CZ3	2:E:34:ILE:CG2	2.67	0.76
1:G:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.76
1:J:481:ASN:HD22	1:J:481:ASN:N	1.82	0.76
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	0.76
1:J:817:GLN:HB3	2:K:127:ARG:NH1	1.98	0.76
1:M:623:PHE:CG	1:M:623:PHE:CA	2.68	0.76
1:D:599:ASN:CA	1:D:649:VAL:CB	2.53	0.75
1:G:732:ILE:N	1:G:733:PRO:HD2	2.00	0.75
1:J:795:ARG:CD	3:L:35:ARG:HH12	1.99	0.75
1:M:649:VAL:CG1	1:M:649:VAL:CB	2.64	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:149:GLN:HB3	1:P:716:LEU:CD2	2.06	0.75
1:P:732:ILE:N	1:P:733:PRO:HD2	2.00	0.75
1:P:732:ILE:HG21	1:P:747:LEU:HD13	0.91	0.75
1:P:769:ALA:CB	1:P:770:GLY:N	2.47	0.75
1:P:786:ILE:HB	1:P:787:ILE:N	2.01	0.75
4:W:324:THR:CG2	4:Y:247:VAL:HG22	2.17	0.75
1:A:530:MET:CG	4:8:354:GLN:CB	2.30	0.75
1:A:831:TRP:CZ3	2:B:34:ILE:HG23	2.18	0.75
2:B:117:LEU:HB2	2:B:147:ASN:HD21	1.47	0.75
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.75
1:D:800:ARG:HB3	3:F:149:VAL:HG22	1.68	0.75
1:G:481:ASN:HD22	1:G:481:ASN:N	1.82	0.75
1:G:534:SER:O	4:V:351:THR:N	2.20	0.75
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	0.75
1:J:797:PHE:HE1	3:L:146:ILE:CA	1.65	0.75
1:J:800:ARG:HD2	3:L:149:VAL:HG13	1.66	0.75
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.21	0.75
1:M:84:MLY:HH21	1:M:719:ASP:O	1.81	0.75
1:M:836:PHE:CE2	2:N:160:GLY:CA	2.68	0.75
3:R:49:ILE:N	3:R:52:ASN:HD22	1.82	0.75
4:1:287:ILE:HG13	4:3:202:THR:CA	2.16	0.75
4:3:322:PRO:CB	4:5:244:ASP:HB2	2.14	0.75
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.75
1:D:797:PHE:CE1	3:F:146:ILE:CB	2.65	0.75
1:G:538:GLU:OE2	4:V:355:MET:HE2	1.87	0.75
1:G:813:ILE:HG21	2:H:128:PHE:HE1	1.49	0.75
3:I:49:ILE:N	3:I:52:ASN:HD22	1.82	0.75
1:D:725:ARG:HG3	1:D:733:PRO:HA	1.68	0.75
3:I:3:SER:O	3:I:4:LYS:HB2	1.84	0.75
1:J:642:LYS:HG2	4:W:22:ALA:HA	1.65	0.75
1:J:798:LEU:CD1	3:L:126:LEU:HD13	1.79	0.75
1:M:797:PHE:CE1	3:O:149:VAL:HG11	2.15	0.75
3:O:49:ILE:N	3:O:52:ASN:HD22	1.82	0.75
1:P:534:SER:O	4:0:351:THR:N	2.19	0.75
1:P:538:GLU:O	4:0:349:LEU:HG	1.86	0.75
1:P:541:MET:O	4:0:143:TYR:CZ	2.40	0.75
1:A:795:ARG:HB2	3:C:35:ARG:NH1	1.99	0.75
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.15	0.75
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	0.75
1:M:505:MLY:CE	1:M:762:HIS:HE1	1.99	0.75
1:M:534:SER:O	4:Z:351:THR:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:642:LYS:CG	4:Z:23:GLY:H	1.77	0.75
1:P:797:PHE:CD2	3:R:146:ILE:HG23	2.22	0.75
4:2:290:ARG:NH2	4:4:202:THR:HG22	1.97	0.75
1:A:97:LEU:HD23	1:A:712:PRO:HB3	1.67	0.75
1:A:481:ASN:HD22	1:A:481:ASN:N	1.82	0.75
1:D:550:PHE:HA	4:W:46:GLY:HA3	1.66	0.75
1:D:642:LYS:CG	4:9:23:GLY:H	1.77	0.75
1:D:713:SER:HB2	1:D:775:LEU:HD22	1.65	0.75
1:D:727:LEU:CG	1:D:782:MLY:CE	2.63	0.75
3:F:49:ILE:N	3:F:52:ASN:HD22	1.82	0.75
1:G:783:LEU:O	1:G:787:ILE:CB	2.35	0.75
1:J:541:MET:O	4:W:143:TYR:CZ	2.40	0.75
1:J:736:GLN:HA	1:J:743:ALA:HB1	1.26	0.75
1:M:538:GLU:OE2	4:Z:355:MET:HE2	1.86	0.75
1:M:541:MET:O	4:Z:143:TYR:CZ	2.40	0.75
1:P:649:VAL:CG1	1:P:649:VAL:CB	2.64	0.75
3:R:4:LYS:N	3:R:5:ALA:O	2.16	0.75
1:A:664:LEU:O	1:A:667:THR:HB	1.86	0.75
1:A:795:ARG:HH21	3:C:116:GLU:CD	1.87	0.75
1:G:641:LYS:CE	1:G:647:GLN:CG	2.61	0.75
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.75
1:J:97:LEU:HD23	1:J:712:PRO:CB	2.17	0.75
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.75
1:M:218:LEU:HB3	1:M:221:GLN:HG3	1.61	0.75
2:N:117:LEU:HB2	2:N:147:ASN:HD21	1.47	0.75
2:N:117:LEU:CB	2:N:147:ASN:ND2	2.35	0.75
1:P:664:LEU:O	1:P:667:THR:HB	1.86	0.75
1:P:800:ARG:HB3	3:R:149:VAL:HG22	1.68	0.75
1:A:534:SER:O	4:8:351:THR:N	2.18	0.75
1:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.75
1:G:623:PHE:CG	1:G:623:PHE:CA	2.68	0.75
1:J:97:LEU:CD2	1:J:712:PRO:CB	2.65	0.75
1:J:664:LEU:O	1:J:667:THR:HB	1.86	0.75
1:J:769:ALA:HB3	1:J:770:GLY:HA2	1.69	0.75
1:J:820:VAL:HG11	2:K:136:MET:CE	2.17	0.75
1:A:28:GLN:NE2	1:A:723:ARG:NH2	2.29	0.75
1:J:800:ARG:O	3:L:149:VAL:HG21	1.87	0.75
1:J:829:TRP:HH2	2:K:84:PHE:CD1	2.05	0.75
1:M:310:TYR:CE2	1:M:320:ILE:HD11	2.22	0.75
1:M:481:ASN:HD22	1:M:481:ASN:N	1.82	0.75
1:P:310:TYR:CE2	1:P:320:ILE:HD11	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:792:ALA:HB2	3:R:42:THR:HG23	1.60	0.75
1:P:795:ARG:NE	3:R:116:GLU:HB3	2.01	0.75
1:P:829:TRP:CZ3	2:Q:84:PHE:CZ	2.75	0.75
4:1:287:ILE:CB	4:3:203:THR:HG22	2.14	0.75
1:A:350:ALA:O	1:A:354:LEU:HB2	1.87	0.74
1:A:541:MET:O	4:8:143:TYR:CZ	2.40	0.74
1:D:727:LEU:HG	1:D:782:MLY:CG	2.17	0.74
1:G:541:MET:O	4:V:143:TYR:CZ	2.40	0.74
1:J:310:TYR:CE2	1:J:320:ILE:HD11	2.22	0.74
1:J:798:LEU:HD12	3:L:126:LEU:CD1	2.04	0.74
1:M:84:MLY:HH11	1:M:720:PHE:CD1	2.21	0.74
1:M:805:ALA:O	1:M:809:ARG:CB	2.35	0.74
4:1:244:ASP:C	4:Z:324:THR:CG2	2.55	0.74
4:5:253:GLU:HA	4:5:256:ARG:HG3	1.69	0.74
1:A:295:MLY:HG3	1:A:332:MET:HE2	1.69	0.74
1:A:635:GLY:HA3	4:8:341:ILE:CD1	2.14	0.74
1:D:538:GLU:O	4:9:349:LEU:HG	1.86	0.74
1:G:556:ASP:OD2	4:X:47:MET:HE3	1.85	0.74
1:M:538:GLU:HA	4:Z:349:LEU:HD12	0.74	0.74
4:0:246:GLN:HG2	4:Y:325:MET:HE1	1.68	0.74
4:1:253:GLU:HA	4:1:256:ARG:HG3	1.69	0.74
4:3:253:GLU:HA	4:3:256:ARG:HG3	1.69	0.74
4:8:288:ASP:H	4:V:203:THR:HG22	1.52	0.74
4:9:253:GLU:HA	4:9:256:ARG:HG3	1.69	0.74
4:9:288:ASP:H	4:W:203:THR:HG22	1.52	0.74
4:W:253:GLU:HA	4:W:256:ARG:HG3	1.69	0.74
1:A:215:GLN:NE2	1:A:336:SER:O	2.20	0.74
1:A:436:MLY:HE3	1:A:626:TYR:CE1	2.22	0.74
1:A:834:LEU:HD21	2:B:54:MET:HE1	1.55	0.74
1:A:839:MLY:CH1	2:B:159:HIS:CD2	2.71	0.74
1:D:272:MLY:HH13	1:D:435:GLU:OE1	1.87	0.74
1:G:707:CYS:SG	1:G:714:ARG:CZ	2.74	0.74
1:J:84:MLY:HH21	1:J:720:PHE:HA	0.74	0.74
1:M:215:GLN:NE2	1:M:336:SER:O	2.20	0.74
1:M:641:LYS:CE	1:M:647:GLN:CG	2.60	0.74
1:P:636:LYS:O	1:P:637:LYS:HB2	1.86	0.74
4:Z:253:GLU:HA	4:Z:256:ARG:HG3	1.69	0.74
1:A:538:GLU:O	4:8:349:LEU:HG	1.86	0.74
1:A:636:LYS:O	1:A:637:LYS:HB2	1.86	0.74
1:D:215:GLN:NE2	1:D:336:SER:O	2.20	0.74
1:D:350:ALA:O	1:D:354:LEU:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:117:LEU:HB2	2:E:147:ASN:HD21	1.47	0.74
1:G:754:ASP:HB2	1:G:776:GLU:CA	2.17	0.74
1:G:795:ARG:HB3	3:I:35:ARG:NH2	2.01	0.74
1:J:732:ILE:N	1:J:733:PRO:HD2	2.01	0.74
1:M:636:LYS:O	1:M:637:LYS:HB2	1.86	0.74
4:7:288:ASP:H	4:9:203:THR:HG22	1.52	0.74
1:D:310:TYR:CE2	1:D:320:ILE:HD11	2.22	0.74
1:D:541:MET:O	4:9:143:TYR:CZ	2.40	0.74
1:D:732:ILE:HD12	1:D:782:MLY:HH13	1.68	0.74
1:G:538:GLU:HA	4:V:349:LEU:HD12	0.74	0.74
1:G:732:ILE:N	1:G:733:PRO:CD	2.51	0.74
1:J:272:MLY:HH13	1:J:435:GLU:OE1	1.87	0.74
1:J:636:LYS:O	1:J:637:LYS:HB2	1.86	0.74
1:M:546:THR:O	4:1:46:GLY:HA3	1.86	0.74
1:P:538:GLU:HA	4:0:349:LEU:HD12	0.75	0.74
4:7:290:ARG:HH22	4:9:202:THR:HG23	1.50	0.74
1:J:757:GLN:HA	1:J:776:GLU:CG	2.15	0.74
1:M:537:GLU:HG3	4:Z:350:SER:O	1.78	0.74
1:P:215:GLN:NE2	1:P:336:SER:O	2.21	0.74
1:P:486:MLY:HH13	1:P:527:GLU:OE1	1.87	0.74
1:P:732:ILE:N	1:P:733:PRO:CD	2.51	0.74
1:P:836:PHE:CE2	2:Q:160:GLY:CA	2.70	0.74
4:0:253:GLU:HA	4:0:256:ARG:HG3	1.69	0.74
4:7:253:GLU:HA	4:7:256:ARG:HG3	1.69	0.74
4:X:253:GLU:HA	4:X:256:ARG:HG3	1.69	0.74
1:A:823:PHE:HE1	2:B:160:GLY:HA2	1.52	0.74
1:D:530:MET:CG	4:9:354:GLN:CB	2.30	0.74
1:D:636:LYS:O	1:D:637:LYS:HB2	1.86	0.74
1:D:799:MET:SD	3:F:32:ASP:HA	2.28	0.74
1:D:831:TRP:CZ2	2:E:47:LEU:HD23	2.22	0.74
1:G:218:LEU:HB3	1:G:221:GLN:HG3	1.60	0.74
1:G:295:MLY:HG3	1:G:332:MET:HE2	1.69	0.74
1:G:350:ALA:O	1:G:354:LEU:HB2	1.87	0.74
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.44	0.74
1:J:534:SER:O	4:W:351:THR:N	2.19	0.74
1:J:538:GLU:HA	4:W:349:LEU:HD12	0.74	0.74
1:J:829:TRP:HZ3	2:K:84:PHE:CE1	1.88	0.74
1:M:538:GLU:O	4:Z:349:LEU:HG	1.86	0.74
1:M:735:GLY:CA	1:M:743:ALA:HA	2.18	0.74
1:P:84:MLY:HH11	1:P:724:TYR:HE2	1.51	0.74
1:P:350:ALA:O	1:P:354:LEU:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:640:LYS:O	4:0:23:GLY:O	2.06	0.74
4:1:203:THR:CG2	4:Z:288:ASP:CB	2.66	0.74
4:2:322:PRO:CB	4:4:244:ASP:OD2	2.26	0.74
4:Y:253:GLU:HA	4:Y:256:ARG:HG3	1.69	0.74
1:A:505:MLY:HD2	1:A:741:LYS:HZ3	1.51	0.74
1:A:732:ILE:N	1:A:733:PRO:CD	2.51	0.74
1:D:436:MLY:HE3	1:D:626:TYR:CE1	2.23	0.74
1:D:727:LEU:HG	1:D:782:MLY:HE2	1.69	0.74
1:G:792:ALA:HB3	3:I:42:THR:CG2	1.91	0.74
1:G:797:PHE:HE2	3:I:126:LEU:CD2	1.71	0.74
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	2.06	0.74
1:J:84:MLY:NZ	1:J:724:TYR:HD2	1.81	0.74
1:J:538:GLU:O	4:W:349:LEU:HG	1.86	0.74
1:M:94:MET:O	1:M:713:SER:CB	2.34	0.74
2:Q:117:LEU:CB	2:Q:147:ASN:ND2	2.35	0.74
2:Q:121:LEU:CG	2:Q:128:PHE:HA	2.14	0.74
1:A:409:GLY:HA3	4:8:333:PRO:N	2.02	0.74
1:A:498:LEU:CD2	1:A:764:MLY:HH22	2.17	0.74
1:D:640:LYS:O	4:9:23:GLY:O	2.06	0.74
1:J:732:ILE:N	1:J:733:PRO:CD	2.51	0.74
1:M:436:MLY:HE3	1:M:626:TYR:CE1	2.23	0.74
1:M:782:MLY:O	1:M:786:ILE:CG1	2.34	0.74
1:M:826:VAL:HG21	2:N:88:LEU:HD21	1.67	0.74
1:P:436:MLY:HE3	1:P:626:TYR:CE1	2.23	0.74
4:0:205:GLU:CG	4:Y:287:ILE:CD1	2.66	0.74
1:A:97:LEU:HD22	1:A:712:PRO:HB2	1.68	0.74
1:A:486:MLY:HH13	1:A:527:GLU:OE1	1.88	0.74
1:A:538:GLU:HA	4:8:349:LEU:HD12	0.74	0.74
1:A:721:LYS:CA	1:A:736:GLN:OE1	2.33	0.74
2:B:130:PRO:O	2:B:132:GLU:N	2.21	0.74
1:D:538:GLU:HA	4:9:349:LEU:HD12	0.74	0.74
1:D:712:PRO:CB	1:D:771:LEU:HB2	2.17	0.74
1:D:800:ARG:HB3	3:F:149:VAL:CG1	2.18	0.74
1:D:831:TRP:CZ2	2:E:47:LEU:CD2	2.70	0.74
2:E:130:PRO:O	2:E:132:GLU:N	2.21	0.74
1:G:636:LYS:O	1:G:637:LYS:HB2	1.86	0.74
1:G:829:TRP:CZ2	2:H:87:LYS:HE2	2.23	0.74
1:J:641:LYS:HD2	1:J:647:GLN:OE1	1.81	0.74
2:K:130:PRO:O	2:K:132:GLU:N	2.21	0.74
3:L:3:SER:O	3:L:4:LYS:HB2	1.84	0.74
1:M:350:ALA:O	1:M:354:LEU:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:506:GLU:OE2	1:M:760:PHE:C	2.30	0.74
1:M:732:ILE:N	1:M:733:PRO:CD	2.51	0.74
2:N:130:PRO:O	2:N:132:GLU:N	2.21	0.74
1:P:735:GLY:CA	1:P:743:ALA:HA	2.18	0.74
1:A:530:MET:CE	4:8:355:MET:SD	2.76	0.73
1:D:767:PHE:C	1:D:771:LEU:CD1	2.43	0.73
3:F:48:LYS:C	3:F:52:ASN:HD21	1.96	0.73
1:G:310:TYR:CE2	1:G:320:ILE:HD11	2.22	0.73
1:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.69	0.73
1:G:754:ASP:OD2	1:G:776:GLU:HA	1.88	0.73
2:H:117:LEU:HB2	2:H:147:ASN:HD21	1.47	0.73
1:J:505:MLY:CG	1:J:762:HIS:HE1	1.98	0.73
1:J:821:ARG:HH22	2:K:127:ARG:CG	2.01	0.73
1:J:829:TRP:HZ2	2:K:83:MET:CE	1.96	0.73
1:M:295:MLY:HG3	1:M:332:MET:HE2	1.69	0.73
1:P:149:GLN:HG2	1:P:716:LEU:CD1	2.07	0.73
1:P:272:MLY:HH13	1:P:435:GLU:OE1	1.87	0.73
1:P:503:TYR:CZ	1:P:711:PHE:CD2	2.75	0.73
1:P:791:GLN:NE2	3:R:115:GLY:HA3	1.99	0.73
1:P:795:ARG:CB	3:R:35:ARG:NH2	2.46	0.73
1:D:487:LEU:O	1:D:490:PHE:HB3	1.88	0.73
1:D:726:VAL:HG12	1:D:785:GLU:HG3	1.62	0.73
3:F:24:LYS:CA	3:F:63:ILE:O	2.36	0.73
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	0.73
1:J:510:TRP:CH2	1:J:772:LEU:HD11	2.23	0.73
1:J:791:GLN:CD	3:L:116:GLU:HG3	2.13	0.73
1:P:410:ASN:OD1	4:0:335:ARG:N	2.21	0.73
1:A:538:GLU:OE2	4:8:355:MET:HE2	1.87	0.73
1:G:486:MLY:HH13	1:G:527:GLU:OE1	1.87	0.73
1:J:836:PHE:CZ	2:K:159:HIS:HA	2.16	0.73
1:P:441:MET:O	1:P:445:ILE:HG13	1.88	0.73
1:P:538:GLU:OE2	4:0:355:MET:HE2	1.86	0.73
4:1:203:THR:HG22	4:Z:287:ILE:HB	1.69	0.73
1:A:542:PHE:CD2	4:8:143:TYR:CE1	2.76	0.73
1:A:640:LYS:O	4:8:23:GLY:O	2.06	0.73
1:D:295:MLY:HG3	1:D:332:MET:HE2	1.69	0.73
1:D:534:SER:CA	4:9:351:THR:HA	2.19	0.73
1:M:505:MLY:CD	1:M:762:HIS:HE1	1.92	0.73
1:M:534:SER:CA	4:Z:351:THR:HA	2.19	0.73
1:P:819:ASN:ND2	2:Q:92:ASP:CB	2.46	0.73
4:8:253:GLU:HA	4:8:256:ARG:HG3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:253:GLU:HA	4:V:256:ARG:HG3	1.69	0.73
1:A:310:TYR:CE2	1:A:320:ILE:HD11	2.22	0.73
1:A:502:GLU:CG	1:A:764:MLY:O	2.36	0.73
1:D:538:GLU:OE2	4:9:355:MET:HE2	1.86	0.73
1:G:410:ASN:OD1	4:V:335:ARG:N	2.21	0.73
1:J:441:MET:O	1:J:445:ILE:HG13	1.88	0.73
1:J:534:SER:CA	4:W:351:THR:HA	2.19	0.73
1:J:821:ARG:HH12	2:K:127:ARG:CZ	2.00	0.73
1:M:21:GLU:O	1:M:25:ILE:HG13	1.88	0.73
1:M:409:GLY:HA3	4:Z:333:PRO:N	2.03	0.73
1:P:530:MET:CE	4:0:355:MET:SD	2.77	0.73
1:P:536:LEU:HD13	1:P:550:PHE:CZ	2.24	0.73
1:P:640:LYS:O	1:P:645:SER:OG	2.06	0.73
4:3:288:ASP:CB	4:5:203:THR:CG2	2.66	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:D:768:MLY:N	1:D:771:LEU:HD11	2.02	0.73
1:G:215:GLN:NE2	1:G:336:SER:O	2.20	0.73
1:G:487:LEU:O	1:G:490:PHE:HB3	1.89	0.73
1:G:536:LEU:HD13	1:G:550:PHE:CZ	2.24	0.73
1:G:735:GLY:CA	1:G:743:ALA:HA	2.17	0.73
1:G:796:GLY:CA	3:I:35:ARG:NE	2.52	0.73
3:I:24:LYS:CA	3:I:63:ILE:O	2.37	0.73
3:I:48:LYS:C	3:I:52:ASN:HD21	1.96	0.73
1:J:487:LEU:O	1:J:490:PHE:HB3	1.89	0.73
1:M:806:MET:HA	1:M:809:ARG:HD2	1.69	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	1.88	0.73
1:P:503:TYR:CZ	1:P:711:PHE:HD2	2.06	0.73
1:P:767:PHE:CE1	1:P:772:LEU:HD21	2.23	0.73
2:Q:117:LEU:HB2	2:Q:147:ASN:HD21	1.47	0.73
3:R:24:LYS:CA	3:R:63:ILE:O	2.36	0.73
4:0:243:PRO:N	4:Y:291:LYS:HE3	2.03	0.73
4:2:253:GLU:HA	4:2:256:ARG:HG3	1.69	0.73
4:8:290:ARG:HH22	4:V:202:THR:HG23	1.51	0.73
1:A:237:THR:HG22	1:A:239:ARG:H	1.53	0.73
1:A:410:ASN:OD1	4:8:335:ARG:N	2.22	0.73
1:A:536:LEU:HD13	1:A:550:PHE:CZ	2.24	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:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:727:LEU:HD11	1:D:782:MLY:CD	2.09	0.73
1:G:409:GLY:HA3	4:V:333:PRO:N	2.03	0.73
2:H:130:PRO:O	2:H:132:GLU:N	2.21	0.73
1:J:530:MET:CE	4:W:355:MET:SD	2.77	0.73
1:J:830:PRO:HB3	2:K:67:MET:HE2	1.70	0.73
1:M:410:ASN:OD1	4:Z:335:ARG:N	2.21	0.73
1:M:753:VAL:CG1	1:M:775:LEU:CD2	2.67	0.73
1:M:804:ARG:O	1:M:808:GLU:CG	2.35	0.73
1:P:295:MLY:HG3	1:P:332:MET:HE2	1.69	0.73
1:D:214:MET:HA	1:D:340:ILE:HD11	1.70	0.73
1:D:640:LYS:O	1:D:645:SER:OG	2.06	0.73
1:G:190:MLY:HE3	1:G:230:GLU:OE2	1.89	0.73
1:J:215:GLN:NE2	1:J:336:SER:O	2.20	0.73
1:J:295:MLY:HG3	1:J:332:MET:HE2	1.69	0.73
1:J:486:MLY:HH13	1:J:527:GLU:OE1	1.88	0.73
1:J:802:GLU:O	1:J:806:MET:HG3	1.88	0.73
1:M:505:MLY:CE	1:M:762:HIS:CE1	2.71	0.73
1:M:640:LYS:O	4:Z:23:GLY:O	2.06	0.73
2:N:117:LEU:HD12	2:N:147:ASN:CA	2.19	0.73
1:P:534:SER:CA	4:0:351:THR:HA	2.19	0.73
1:P:795:ARG:CD	3:R:118:MET:HE1	2.18	0.73
4:2:288:ASP:H	4:4:203:THR:CG2	1.98	0.73
2:B:144:VAL:CB	2:B:153:ILE:HD11	2.19	0.73
1:D:237:THR:HG22	1:D:239:ARG:H	1.54	0.73
1:G:757:GLN:HG2	1:G:776:GLU:CD	2.14	0.73
1:G:802:GLU:O	1:G:806:MET:HG3	1.89	0.73
1:J:735:GLY:CA	1:J:743:ALA:HA	2.18	0.73
1:J:769:ALA:HB3	1:J:770:GLY:CA	2.18	0.73
1:M:806:MET:C	1:M:809:ARG:HB2	2.13	0.73
4:0:110:LEU:O	4:1:195:GLU:CA	2.34	0.73
4:4:253:GLU:HA	4:4:256:ARG:HG3	1.69	0.73
1:A:735:GLY:CA	1:A:743:ALA:HA	2.18	0.73
3:C:48:LYS:C	3:C:52:ASN:HD22	1.97	0.73
1:D:36:SER:O	1:D:52:ILE:HG12	1.89	0.73
1:D:441:MET:O	1:D:445:ILE:HG13	1.88	0.73
1:D:508:ILE:HG12	1:D:766:PHE:CE1	2.24	0.73
1:G:838:ILE:HD11	2:H:54:MET:HE2	1.67	0.73
2:H:144:VAL:CB	2:H:153:ILE:HD11	2.19	0.73
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	0.73
1:M:190:MLY:HE3	1:M:230:GLU:OE2	1.89	0.73
1:M:214:MET:HA	1:M:340:ILE:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:486:MLY:HH13	1:M:527:GLU:OE1	1.88	0.73
1:M:519:LEU:N	1:M:519:LEU:HD12	2.04	0.73
1:M:618:THR:O	1:M:622:LEU:HD13	1.89	0.73
1:M:739:ASP:CB	1:M:742:LYS:HB3	2.12	0.73
2:Q:130:PRO:O	2:Q:132:GLU:N	2.21	0.73
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.50	0.73
1:A:93:MET:C	1:A:713:SER:HB3	2.14	0.72
1:A:441:MET:O	1:A:445:ILE:HG13	1.88	0.72
1:A:839:MLY:CH1	2:B:159:HIS:HD2	2.02	0.72
1:D:410:ASN:OD1	4:9:335:ARG:N	2.22	0.72
1:D:618:THR:O	1:D:622:LEU:HD13	1.89	0.72
1:D:735:GLY:CA	1:D:743:ALA:HA	2.18	0.72
1:G:21:GLU:O	1:G:25:ILE:HG13	1.89	0.72
1:G:797:PHE:CE2	3:I:146:ILE:HD12	2.16	0.72
1:J:237:THR:HG22	1:J:239:ARG:H	1.54	0.72
1:J:409:GLY:HA3	4:W:333:PRO:N	2.03	0.72
1:J:436:MLY:HE3	1:J:626:TYR:CE1	2.23	0.72
1:J:640:LYS:O	1:J:645:SER:OG	2.06	0.72
1:M:36:SER:O	1:M:52:ILE:HG12	1.89	0.72
1:M:272:MLY:HH13	1:M:435:GLU:OE1	1.88	0.72
1:M:829:TRP:CZ3	2:N:84:PHE:CZ	2.76	0.72
1:P:542:PHE:CD2	4:0:143:TYR:CE1	2.77	0.72
1:P:806:MET:C	1:P:809:ARG:HB2	2.14	0.72
4:V:287:ILE:HD11	4:X:201:VAL:O	1.75	0.72
1:D:536:LEU:HD13	1:D:550:PHE:CZ	2.24	0.72
1:D:725:ARG:HA	1:D:782:MLY:CH2	2.19	0.72
2:E:144:VAL:CB	2:E:153:ILE:HD11	2.19	0.72
1:G:214:MET:HA	1:G:340:ILE:HD11	1.70	0.72
1:G:272:MLY:HH13	1:G:435:GLU:OE1	1.88	0.72
1:G:538:GLU:O	4:V:349:LEU:HG	1.87	0.72
1:J:21:GLU:O	1:J:25:ILE:HG13	1.89	0.72
1:J:36:SER:O	1:J:52:ILE:HG12	1.89	0.72
1:J:190:MLY:HE3	1:J:230:GLU:OE2	1.89	0.72
1:J:618:THR:O	1:J:622:LEU:HD13	1.89	0.72
1:J:640:LYS:O	4:W:23:GLY:O	2.06	0.72
3:L:24:LYS:CA	3:L:63:ILE:O	2.37	0.72
1:M:487:LEU:O	1:M:490:PHE:HB3	1.88	0.72
1:M:530:MET:CE	4:Z:355:MET:SD	2.77	0.72
1:M:802:GLU:O	1:M:806:MET:HG3	1.89	0.72
3:O:24:LYS:CA	3:O:63:ILE:O	2.37	0.72
2:Q:144:VAL:CB	2:Q:153:ILE:HD11	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:202:THR:OG1	4:Y:286:ASP:C	2.29	0.72
1:A:707:CYS:CA	1:A:714:ARG:HH12	1.83	0.72
3:C:24:LYS:CA	3:C:63:ILE:O	2.36	0.72
1:D:190:MLY:HE3	1:D:230:GLU:OE2	1.89	0.72
1:D:798:LEU:CD2	3:F:126:LEU:HD11	2.19	0.72
1:G:618:THR:O	1:G:622:LEU:HD13	1.89	0.72
1:G:640:LYS:O	4:V:23:GLY:O	2.06	0.72
1:G:838:ILE:CG1	2:H:54:MET:CE	2.68	0.72
2:H:117:LEU:HD12	2:H:147:ASN:CA	2.19	0.72
1:J:536:LEU:HD13	1:J:550:PHE:CZ	2.24	0.72
1:J:821:ARG:HH22	2:K:127:ARG:HE	1.35	0.72
1:M:237:THR:HG22	1:M:239:ARG:H	1.54	0.72
1:M:536:LEU:HD13	1:M:550:PHE:CZ	2.24	0.72
1:P:36:SER:O	1:P:52:ILE:HG12	1.89	0.72
1:P:295:MLY:HG3	1:P:332:MET:CE	2.19	0.72
4:2:3:ASP:HA	4:2:6:THR:CB	2.18	0.72
1:A:21:GLU:O	1:A:25:ILE:HG13	1.88	0.72
1:A:768:MLY:HB3	1:A:771:LEU:HB2	0.75	0.72
1:G:441:MET:O	1:G:445:ILE:HG13	1.88	0.72
1:G:817:GLN:CB	2:H:127:ARG:HD2	2.18	0.72
1:J:214:MET:HA	1:J:340:ILE:HD11	1.70	0.72
1:J:505:MLY:HG3	1:J:762:HIS:HE1	1.53	0.72
1:J:542:PHE:CD2	4:W:143:TYR:CE1	2.77	0.72
1:P:785:GLU:CG	3:R:81:GLN:OE1	2.35	0.72
4:0:288:ASP:OD2	4:2:63:GLY:HA2	1.88	0.72
4:2:322:PRO:HB2	4:4:244:ASP:HB3	1.70	0.72
4:3:287:ILE:HB	4:5:203:THR:HG22	1.69	0.72
1:A:36:SER:O	1:A:52:ILE:HG12	1.89	0.72
1:A:272:MLY:HH13	1:A:435:GLU:OE1	1.88	0.72
1:A:502:GLU:C	1:A:761:GLY:CA	2.60	0.72
1:A:505:MLY:N	1:A:762:HIS:NE2	2.38	0.72
1:A:534:SER:CA	4:8:351:THR:HA	2.18	0.72
1:A:799:MET:HE1	3:C:32:ASP:HB3	1.70	0.72
1:A:802:GLU:O	1:A:806:MET:HG3	1.89	0.72
1:D:557:GLU:N	4:W:48:GLY:HA3	1.90	0.72
1:D:836:PHE:CE1	2:E:159:HIS:HB2	2.23	0.72
1:G:436:MLY:HE3	1:G:626:TYR:CE1	2.23	0.72
3:L:48:LYS:C	3:L:52:ASN:HD21	1.96	0.72
1:P:618:THR:O	1:P:622:LEU:HD13	1.89	0.72
1:D:739:ASP:CB	1:D:742:LYS:HB3	2.12	0.72
1:G:84:MLY:HH21	1:G:719:ASP:O	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:237:THR:HG22	1:G:239:ARG:H	1.54	0.72
1:G:530:MET:CE	4:V:355:MET:SD	2.78	0.72
1:G:829:TRP:HZ3	2:H:84:PHE:CE1	2.06	0.72
1:G:838:ILE:CD1	2:H:54:MET:HE1	2.11	0.72
1:J:84:MLY:HH13	1:J:724:TYR:CE2	2.24	0.72
1:M:486:MLY:HH22	1:M:527:GLU:OE2	1.90	0.72
1:P:797:PHE:HE2	3:R:146:ILE:HD12	1.49	0.72
4:1:3:ASP:HA	4:1:6:THR:CB	2.17	0.72
4:1:287:ILE:HG23	4:3:202:THR:HB	0.88	0.72
4:1:288:ASP:H	4:3:203:THR:HG22	1.54	0.72
4:8:3:ASP:HA	4:8:6:THR:CB	2.18	0.72
1:A:486:MLY:HH22	1:A:527:GLU:OE2	1.90	0.72
1:D:295:MLY:HG3	1:D:332:MET:CE	2.20	0.72
1:G:176:LEU:HD12	1:G:176:LEU:N	2.05	0.72
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.72
1:G:788:THR:C	3:I:42:THR:HG21	2.13	0.72
1:J:28:GLN:OE1	1:J:723:ARG:HG2	1.89	0.72
1:M:640:LYS:O	1:M:645:SER:OG	2.06	0.72
2:N:144:VAL:CB	2:N:153:ILE:HD11	2.19	0.72
1:P:214:MET:HA	1:P:340:ILE:HD11	1.70	0.72
1:P:409:GLY:HA3	4:0:333:PRO:N	2.03	0.72
1:P:546:THR:HG21	4:2:48:GLY:HA2	1.71	0.72
1:P:754:ASP:HB3	1:P:757:GLN:HG2	1.72	0.72
1:P:762:HIS:H	1:P:762:HIS:CD2	2.07	0.72
1:P:806:MET:C	1:P:807:VAL:CA	2.63	0.72
4:3:3:ASP:HA	4:3:6:THR:CB	2.18	0.72
4:7:290:ARG:NH1	4:9:202:THR:CG2	2.49	0.72
1:A:641:LYS:HD2	1:A:647:GLN:OE1	1.81	0.72
1:D:519:LEU:HD12	1:D:519:LEU:N	2.04	0.72
1:D:732:ILE:HD12	1:D:782:MLY:CH1	2.19	0.72
1:D:802:GLU:O	1:D:806:MET:HG3	1.89	0.72
1:G:797:PHE:CE1	3:I:146:ILE:HD13	2.21	0.72
1:J:295:MLY:HG3	1:J:332:MET:CE	2.20	0.72
1:M:800:ARG:HB3	3:O:149:VAL:HG21	1.70	0.72
1:P:21:GLU:O	1:P:25:ILE:HG13	1.89	0.72
1:P:819:ASN:CB	2:Q:90:GLY:O	2.37	0.72
4:2:287:ILE:CD1	4:4:203:THR:HB	2.19	0.72
1:A:14:ALA:HB3	1:A:15:PRO:HD3	1.72	0.72
1:A:519:LEU:HD12	1:A:519:LEU:N	2.04	0.72
2:B:117:LEU:HD12	2:B:147:ASN:CA	2.20	0.72
3:C:4:LYS:N	3:C:5:ALA:O	2.16	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.72
1:G:552:ASN:C	4:X:47:MET:HE1	2.14	0.72
2:K:144:VAL:CB	2:K:153:ILE:HD11	2.19	0.72
1:M:730:SER:CB	3:O:96:LYS:HB3	2.19	0.72
1:M:836:PHE:CE1	2:N:160:GLY:N	2.51	0.72
4:V:286:ASP:OD1	4:X:203:THR:N	2.23	0.72
1:D:795:ARG:HH22	3:F:116:GLU:CD	1.93	0.72
1:G:791:GLN:NE2	3:I:116:GLU:H	1.87	0.72
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.72
1:J:538:GLU:OE2	4:W:355:MET:HE2	1.86	0.72
1:J:791:GLN:HE21	3:L:115:GLY:HA3	1.52	0.72
1:M:508:ILE:HD11	1:M:759:ALA:CB	2.20	0.72
1:M:553:MLY:HG2	4:1:43:VAL:CB	2.20	0.72
1:M:721:LYS:HG2	1:M:736:GLN:CD	1.85	0.72
1:P:739:ASP:CB	1:P:742:LYS:HB3	2.12	0.72
1:P:792:ALA:HB2	3:R:42:THR:CA	2.18	0.72
4:9:3:ASP:HA	4:9:6:THR:CB	2.18	0.72
1:D:486:MLY:HH22	1:D:527:GLU:OE2	1.90	0.71
1:G:36:SER:O	1:G:52:ILE:HG12	1.90	0.71
1:G:534:SER:CA	4:V:351:THR:HA	2.19	0.71
1:G:640:LYS:O	1:G:645:SER:OG	2.06	0.71
1:J:829:TRP:CZ3	2:K:84:PHE:CD1	2.77	0.71
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.71
1:M:537:GLU:C	4:Z:351:THR:H	1.98	0.71
1:M:542:PHE:CD2	4:Z:143:TYR:CE1	2.77	0.71
4:1:287:ILE:HG21	4:3:202:THR:OG1	1.89	0.71
4:2:324:THR:CG2	4:4:243:PRO:C	2.57	0.71
1:A:217:THR:O	1:A:220:ASP:HB2	1.91	0.71
1:A:762:HIS:CD2	1:A:762:HIS:H	2.08	0.71
1:D:530:MET:HE3	4:9:355:MET:SD	2.30	0.71
1:G:542:PHE:CD2	4:V:143:TYR:CE1	2.78	0.71
1:J:176:LEU:HD12	1:J:176:LEU:N	2.05	0.71
1:M:547:ASP:O	4:1:46:GLY:O	2.07	0.71
1:P:176:LEU:HD12	1:P:176:LEU:N	2.05	0.71
1:P:486:MLY:HH22	1:P:527:GLU:OE2	1.90	0.71
4:Z:3:ASP:HA	4:Z:6:THR:CB	2.17	0.71
1:A:190:MLY:HE3	1:A:230:GLU:OE2	1.89	0.71
1:A:618:THR:O	1:A:622:LEU:HD13	1.89	0.71
1:D:217:THR:O	1:D:220:ASP:HB2	1.90	0.71
1:D:641:LYS:HD2	1:D:647:GLN:OE1	1.81	0.71
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.84	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:769:ALA:HA	1:D:771:LEU:HA	0.75	0.71
1:G:519:LEU:HD12	1:G:519:LEU:N	2.05	0.71
1:G:537:GLU:C	4:V:351:THR:H	1.99	0.71
1:G:795:ARG:CA	3:I:118:MET:CE	2.65	0.71
1:J:817:GLN:HB3	2:K:127:ARG:CD	2.20	0.71
1:M:295:MLY:HG3	1:M:332:MET:CE	2.20	0.71
1:M:754:ASP:HB3	1:M:757:GLN:HG2	1.71	0.71
1:P:86:ASP:OD2	1:P:87:MLY:HH13	1.91	0.71
1:P:802:GLU:O	1:P:806:MET:HG3	1.89	0.71
1:P:806:MET:HA	1:P:809:ARG:HD2	1.72	0.71
1:P:806:MET:O	1:P:810:ARG:N	2.23	0.71
4:0:204:ALA:CB	4:Y:288:ASP:CB	2.67	0.71
1:A:214:MET:HA	1:A:340:ILE:HD11	1.71	0.71
1:A:487:LEU:O	1:A:490:PHE:HB3	1.88	0.71
1:A:640:LYS:O	1:A:645:SER:OG	2.06	0.71
2:B:136:MET:O	2:B:140:PHE:HB2	1.90	0.71
1:D:176:LEU:HD12	1:D:176:LEU:N	2.05	0.71
1:D:823:PHE:HE1	2:E:161:GLU:N	1.88	0.71
1:G:14:ALA:HB3	1:G:15:PRO:HD3	1.72	0.71
1:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.71
1:J:486:MLY:HH22	1:J:527:GLU:OE2	1.90	0.71
1:M:14:ALA:HB3	1:M:15:PRO:HD3	1.72	0.71
1:M:783:LEU:CB	1:M:786:ILE:HD11	2.17	0.71
1:P:14:ALA:HB3	1:P:15:PRO:HD3	1.72	0.71
1:P:217:THR:O	1:P:220:ASP:HB2	1.91	0.71
2:Q:136:MET:O	2:Q:140:PHE:HB2	1.90	0.71
4:5:3:ASP:HA	4:5:6:THR:CB	2.18	0.71
1:D:86:ASP:OD2	1:D:87:MLY:HH13	1.91	0.71
1:D:831:TRP:NE1	2:E:51:PHE:CE2	2.57	0.71
1:G:829:TRP:CZ2	2:H:83:MET:HE3	2.26	0.71
1:J:72:VAL:HG13	1:J:76:GLN:CB	2.19	0.71
1:M:829:TRP:CH2	2:N:87:LYS:NZ	2.57	0.71
3:O:48:LYS:C	3:O:52:ASN:HD21	1.96	0.71
1:P:519:LEU:N	1:P:519:LEU:HD12	2.04	0.71
4:2:287:ILE:CG2	4:4:204:ALA:H	2.04	0.71
4:2:287:ILE:HB	4:4:204:ALA:H	1.55	0.71
4:X:3:ASP:HA	4:X:6:THR:CB	2.17	0.71
1:A:505:MLY:CA	1:A:762:HIS:CD2	2.74	0.71
1:A:795:ARG:CD	3:C:43:ASN:CG	2.63	0.71
1:A:839:MLY:HH13	2:B:159:HIS:CD2	2.25	0.71
1:D:245:ARG:HD3	1:D:271:GLU:OE1	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:727:LEU:HB2	1:D:782:MLY:NZ	2.01	0.71
1:D:762:HIS:H	1:D:762:HIS:CD2	2.08	0.71
1:G:829:TRP:CZ3	2:H:84:PHE:CE1	2.79	0.71
1:M:441:MET:O	1:M:445:ILE:HG13	1.88	0.71
1:P:818:TYR:CE1	2:Q:127:ARG:CZ	2.72	0.71
1:P:820:VAL:HG11	2:Q:136:MET:HE3	1.71	0.71
4:X:291:LYS:CD	4:Z:243:PRO:CB	2.64	0.71
1:A:295:MLY:HG3	1:A:332:MET:CE	2.19	0.71
1:A:530:MET:HE3	4:8:355:MET:SD	2.30	0.71
1:A:537:GLU:C	4:8:351:THR:H	1.99	0.71
1:D:56:GLU:CB	1:D:59:MLY:HB3	2.20	0.71
1:D:709:LYS:C	1:D:710:GLY:HA2	2.15	0.71
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.73	0.71
1:G:274:ARG:NH2	1:G:282:GLU:OE1	2.24	0.71
1:G:755:HIS:N	1:G:779:ARG:CZ	2.52	0.71
1:J:797:PHE:HD1	3:L:146:ILE:CG2	1.86	0.71
1:M:274:ARG:NH2	1:M:282:GLU:OE1	2.24	0.71
1:P:795:ARG:HD2	3:R:43:ASN:CG	2.16	0.71
4:1:324:THR:OG1	4:3:244:ASP:N	2.17	0.71
4:X:325:MET:HE1	4:Z:244:ASP:CG	2.16	0.71
1:D:820:VAL:HG11	2:E:136:MET:HE1	1.73	0.71
1:G:834:LEU:CD1	2:H:51:PHE:CD1	2.74	0.71
1:J:14:ALA:HB3	1:J:15:PRO:HD3	1.72	0.71
1:J:56:GLU:CB	1:J:59:MLY:HB3	2.19	0.71
1:J:274:ARG:NH2	1:J:282:GLU:OE1	2.24	0.71
1:J:519:LEU:HD12	1:J:519:LEU:N	2.04	0.71
1:J:818:TYR:CE1	2:K:127:ARG:NH1	2.59	0.71
1:M:762:HIS:H	1:M:762:HIS:CD2	2.07	0.71
1:P:237:THR:HG22	1:P:239:ARG:H	1.54	0.71
4:7:3:ASP:HA	4:7:6:THR:CB	2.18	0.71
1:A:206:LYS:HD3	1:A:217:THR:HG23	0.71	0.71
1:A:754:ASP:HB3	1:A:757:GLN:HG2	1.72	0.71
2:E:136:MET:O	2:E:140:PHE:HB2	1.90	0.71
1:G:557:GLU:HB2	4:X:47:MET:C	2.16	0.71
1:G:753:VAL:N	1:G:780:ASP:OD1	2.24	0.71
1:J:791:GLN:OE1	3:L:116:GLU:HG3	1.91	0.71
1:J:821:ARG:NH2	2:K:127:ARG:NE	2.38	0.71
1:P:97:LEU:HD22	1:P:712:PRO:HB3	1.72	0.71
1:P:245:ARG:HD3	1:P:271:GLU:OE1	1.90	0.71
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.73	0.71
1:A:176:LEU:N	1:A:176:LEU:HD12	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:728:ASN:HD21	3:I:114:LEU:HA	1.56	0.71
1:J:206:LYS:HD3	1:J:217:THR:HG23	0.71	0.71
1:J:245:ARG:HD3	1:J:271:GLU:OE1	1.90	0.71
1:J:541:MET:HG2	4:W:345:ILE:C	2.16	0.71
1:J:754:ASP:HB3	1:J:757:GLN:HG2	1.72	0.71
1:J:831:TRP:HH2	2:K:47:LEU:CD2	2.02	0.71
1:J:834:LEU:HD13	2:K:51:PHE:CE1	2.26	0.71
1:M:829:TRP:CH2	2:N:87:LYS:CE	2.74	0.71
1:P:537:GLU:C	4:0:351:THR:H	1.98	0.71
1:P:541:MET:HG2	4:0:345:ILE:C	2.16	0.71
1:A:149:GLN:HA	1:A:719:ASP:OD1	1.91	0.70
1:A:787:ILE:HG22	1:A:788:THR:N	2.06	0.70
1:D:14:ALA:HB3	1:D:15:PRO:HD3	1.72	0.70
1:D:723:ARG:HE	1:D:779:ARG:HG3	1.57	0.70
1:G:295:MLY:HG3	1:G:332:MET:CE	2.20	0.70
1:J:537:GLU:C	4:W:351:THR:H	1.98	0.70
3:L:4:LYS:N	3:L:5:ALA:O	2.16	0.70
1:M:56:GLU:CB	1:M:59:MLY:HB3	2.19	0.70
1:P:789:ALA:HB1	3:R:81:GLN:CD	2.16	0.70
4:V:3:ASP:HA	4:V:6:THR:CB	2.18	0.70
1:A:72:VAL:HG13	1:A:76:GLN:CB	2.19	0.70
1:A:541:MET:HG2	4:8:345:ILE:C	2.16	0.70
1:A:831:TRP:CE3	2:B:34:ILE:CD1	2.74	0.70
1:D:537:GLU:C	4:9:351:THR:H	1.98	0.70
1:D:641:LYS:HD2	4:9:348:SER:HA	1.73	0.70
1:D:754:ASP:HB3	1:D:757:GLN:HG2	1.72	0.70
1:D:836:PHE:HZ	2:E:160:GLY:H	1.39	0.70
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	0.70
1:G:217:THR:O	1:G: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:J:86:ASP:OD2	1:J:87:MLY:HH13	1.91	0.70
1:J:97:LEU:CD2	1:J:712:PRO:HB3	2.21	0.70
1:J:217:THR:O	1:J:220:ASP:HB2	1.91	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
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:P:530:MET:HE3	4:0:355:MET:SD	2.30	0.70
1:P:819:ASN:OD1	2:Q:92:ASP:CB	2.37	0.70
1:A:86:ASP:OD2	1:A:87:MLY:HH13	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:ARG:NH2	1:A:282:GLU:OE1	2.24	0.70
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
1:D:791:GLN:OE1	3:F:116:GLU:N	2.24	0.70
1:D:813:ILE:CD1	2:E:128:PHE:CE1	2.66	0.70
1:J:83:PRO:C	1:J:723:ARG:NH2	2.49	0.70
1:J:166:MET:HE1	1:J:254:PHE:HB2	1.73	0.70
1:J:641:LYS:HD2	4:W:348:SER:HA	1.73	0.70
1:J:762:HIS:H	1:J:762:HIS:CD2	2.08	0.70
1:J:800:ARG:CG	3:L:149:VAL:HG22	2.20	0.70
1:M:217:THR:O	1:M:220:ASP:HB2	1.91	0.70
1:M:541:MET:HG2	4:Z:345:ILE:C	2.16	0.70
1:M:796:GLY:CA	3:O:35:ARG:HD3	2.18	0.70
1:P:206:LYS:HD3	1:P:217:THR:HG23	0.71	0.70
1:P:630:ALA:O	4:0:25:ASP:HB2	1.91	0.70
4:0:243:PRO:HB2	4:Y:291:LYS:HZ1	1.55	0.70
4:0:244:ASP:HB2	4:Y:291:LYS:C	2.13	0.70
4:0:287:ILE:HG21	4:2:203:THR:HG22	0.72	0.70
1:A:123:CYS:HB2	1:A:158:ILE:HD11	1.73	0.70
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.73	0.70
1:G:541:MET:HG2	4:V:345:ILE:C	2.17	0.70
1:G:579:PHE:HD2	1:G:592:ILE:HD11	1.57	0.70
3:I:25:ILE:O	3:I:63:ILE:HB	1.92	0.70
1:M:579:PHE:HD2	1:M:592:ILE:HD11	1.56	0.70
1:P:577:ALA:O	1:P:578:HIS:CG	2.45	0.70
1:P:789:ALA:CB	3:R:81:GLN:CD	2.64	0.70
4:3:1:ASP:HA	4:3:4:GLU:HB3	1.74	0.70
1:A:797:PHE:CE1	3:C:146:ILE:CD1	2.69	0.70
1:D:274:ARG:NH2	1:D:282:GLU:OE1	2.24	0.70
1:D:579:PHE:HD2	1:D:592:ILE:HD11	1.56	0.70
1:D:834:LEU:CD2	2:E:54:MET:CE	2.30	0.70
1:G:56:GLU:CB	1:G:59:MLY:HB3	2.19	0.70
1:J:530:MET:HE3	4:W:355:MET:SD	2.30	0.70
1:M:86:ASP:OD2	1:M:87:MLY:HH13	1.91	0.70
1:M:166:MET:HE1	1:M:254:PHE:HB2	1.73	0.70
1:M:798:LEU:HD22	3:O:126:LEU:CD1	2.05	0.70
2:N:136:MET:O	2:N:140:PHE:HB2	1.90	0.70
1:P:274:ARG:NH2	1:P:282:GLU:OE1	2.24	0.70
1:P:729:ALA:O	3:R:93:VAL:HG22	1.88	0.70
4:W:324:THR:HG23	4:Y:247:VAL:HG22	1.70	0.70
1:A:92:ALA:O	1:A:713:SER:HA	1.92	0.70
1:A:546:THR:HG22	1:A:548:THR:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:732:ILE:HG23	1:A:747:LEU:CB	1.85	0.70
1:D:541:MET:HG2	4:9:345:ILE:C	2.16	0.70
1:D:767:PHE:CE1	1:D:778:MET:HE1	2.26	0.70
1:D:831:TRP:CD2	2:E:51:PHE:CZ	2.79	0.70
1:G:792:ALA:CA	3:I:42:THR:HG22	2.21	0.70
1:J:630:ALA:O	4:W:25:ASP:HB2	1.91	0.70
2:K:150:TYR:C	2:K:151:LYS:CG	2.48	0.70
1:M:831:TRP:CZ3	2:N:34:ILE:HD13	2.27	0.70
1:P:123:CYS:HB2	1:P:158:ILE:HD11	1.73	0.70
1:P:213:LYS:HA	1:P:220:ASP:OD1	1.92	0.70
3:R:48:LYS:O	3:R:52:ASN:CG	2.34	0.70
4:Y:3:ASP:HA	4:Y:6:THR:CB	2.18	0.70
3:C:48:LYS:HB3	3:C:52:ASN:HD21	1.57	0.70
1:D:72:VAL:HG13	1:D:76:GLN:CB	2.20	0.70
1:D:556:ASP:HA	4:W:49:GLN:O	1.70	0.70
1:G:123:CYS:HB2	1:G:158:ILE:HD11	1.73	0.70
1:G:530:MET:HE3	4:V:355:MET:SD	2.31	0.70
1:G:739:ASP:CB	1:G:742:LYS:HB3	2.12	0.70
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.70
1:J:213:LYS:HA	1:J:220:ASP:OD1	1.92	0.70
1:M:797:PHE:HE2	3:O:126:LEU:CD2	2.04	0.70
1:P:641:LYS:HD2	4:0:348:SER:HA	1.73	0.70
1:P:721:LYS:HG2	1:P:736:GLN:CD	1.86	0.70
1:P:793:ARG:CZ	3:R:40:ASN:ND2	2.54	0.70
4:0:3:ASP:HA	4:0:6:THR:CB	2.18	0.70
1:A:579:PHE:HD2	1:A:592:ILE:HD11	1.57	0.70
1:A:768:MLY:CB	1:A:771:LEU:HD13	2.20	0.70
1:D:213:LYS:HA	1:D:220:ASP:OD1	1.92	0.70
1:D:831:TRP:HZ3	2:E:50:THR:HG21	1.55	0.70
1:G:97:LEU:HD21	1:G:712:PRO:CB	2.22	0.70
1:G:166:MET:HE1	1:G:254:PHE:HD2	1.56	0.70
2:H:136:MET:O	2:H:140:PHE:HB2	1.90	0.70
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.70
1:M:553:MLY:HG2	4:1:43:VAL:CG2	2.20	0.70
1:P:93:MET:HA	1:P:714:ARG:H	1.56	0.70
4:1:287:ILE:CG2	4:3:203:THR:N	2.55	0.70
4:X:1:ASP:HA	4:X:4:GLU:HB3	1.74	0.70
1:A:245:ARG:HD3	1:A:271:GLU:OE1	1.90	0.70
1:A:537:GLU:HG3	4:8:350:SER:O	1.79	0.70
1:D:630:ALA:O	4:9:25:ASP:HB2	1.92	0.70
1:D:725:ARG:O	1:D:782:MLY:HH22	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:546:THR:HG22	1:G:548:THR:N	2.05	0.70
1:G:791:GLN:NE2	3:I:116:GLU:N	2.39	0.70
1:G:797:PHE:HE2	3:I:126:LEU:CG	2.05	0.70
1:G:838:ILE:CG1	2:H:54:MET:HE1	2.22	0.70
1:J:577:ALA:O	1:J:578:HIS:CG	2.45	0.70
1:J:757:GLN:NE2	1:J:777:GLU:H	1.88	0.70
1:M:810:ARG:HG2	1:M:810:ARG:HH11	1.57	0.70
3:O:4:LYS:N	3:O:5:ALA:O	2.16	0.70
1:P:806:MET:O	1:P:809:ARG:HB2	1.92	0.70
1:P:838:ILE:HD11	2:Q:54:MET:SD	2.31	0.70
4:1:1:ASP:HA	4:1:4:GLU:HB3	1.74	0.70
4:W:325:MET:SD	4:Y:244:ASP:CG	2.75	0.70
1:A:802:GLU:OE1	1:A:802:GLU:HA	1.92	0.70
1:D:810:ARG:HG2	1:D:810:ARG:HH11	1.57	0.70
1:G:810:ARG:HG2	1:G:810:ARG:HH11	1.56	0.70
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.70
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.70
1:M:123:CYS:HB2	1:M:158:ILE:HD11	1.73	0.70
2:Q:117:LEU:CB	2:Q:147:ASN:OD1	2.39	0.70
1:D:732:ILE:HG21	1:D:747:LEU:HD11	0.72	0.69
1:D:823:PHE:CD1	2:E:160:GLY:HA3	2.24	0.69
1:D:831:TRP:CZ2	2:E:47:LEU:CA	2.75	0.69
1:G:643:GLY:N	4:V:24:ASP:CA	2.47	0.69
1:G:769:ALA:O	1:G:773:GLY:HA3	1.91	0.69
1:G:789:ALA:HB2	3:I:81:GLN:CD	2.17	0.69
1:M:218:LEU:HB2	1:M:221:GLN:CG	2.09	0.69
2:N:117:LEU:CB	2:N:147:ASN:OD1	2.39	0.69
1:P:541:MET:CG	4:0:345:ILE:O	2.40	0.69
2:Q:111:SER:OG	2:Q:148:VAL:HG12	1.92	0.69
4:0:287:ILE:HG21	4:2:203:THR:CB	2.22	0.69
1:A:166:MET:HE1	1:A:254:PHE:HD2	1.56	0.69
1:A:577:ALA:O	1:A:578:HIS:CG	2.45	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:123:CYS:HB2	1:D:158:ILE:HD11	1.73	0.69
1:D:218:LEU:HB2	1:D:221:GLN:CG	2.09	0.69
1:G:757:GLN:OE1	1:G:772:LEU:HA	1.90	0.69
1:J:579:PHE:HD2	1:J:592:ILE:HD11	1.57	0.69
1:J:630:ALA:O	4:W:25:ASP:CB	2.41	0.69
1:P:579:PHE:HD2	1:P:592:ILE:HD11	1.56	0.69
4:0:201:VAL:H	4:Y:287:ILE:HG12	0.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	0.69
1:D:206:LYS:HD3	1:D:217:THR:HG23	0.71	0.69
1:G:72:VAL:HG13	1:G:76:GLN:CB	2.19	0.69
1:J:817:GLN:HG3	2:K:128:PHE:CE1	2.26	0.69
1:J:819:ASN:HD21	2:K:92:ASP:HB2	1.49	0.69
1:M:641:LYS:HD2	4:Z:348:SER:HA	1.72	0.69
1:P:166:MET:HE1	1:P:254:PHE:HB2	1.73	0.69
1:P:630:ALA:O	4:0:25:ASP:CB	2.41	0.69
4:W:324:THR:HG23	4:Y:247:VAL:H	1.45	0.69
4:Z:1:ASP:HA	4:Z:4:GLU:HB3	1.74	0.69
1:A:641:LYS:HD2	4:8:348:SER:HA	1.73	0.69
3:C:48:LYS:O	3:C:52:ASN:CG	2.34	0.69
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.17	0.69
1:G:28:GLN:HB3	1:G:723:ARG:NH1	2.06	0.69
1:G:762:HIS:H	1:G:762:HIS:CD2	2.08	0.69
1:J:215:GLN:CA	1:J:340:ILE:CG2	2.62	0.69
1:J:732:ILE:HG23	1:J:747:LEU:CB	1.84	0.69
1:J:810:ARG:HG2	1:J:810:ARG:HH11	1.57	0.69
1:M:505:MLY:HH23	1:M:762:HIS:ND1	2.07	0.69
1:M:577:ALA:O	1:M:578:HIS:CG	2.45	0.69
1:M:802:GLU:OE1	1:M:802:GLU:HA	1.93	0.69
3:O:25:ILE:O	3:O:63:ILE:HB	1.92	0.69
1:P:72:VAL:HG13	1:P:76:GLN:CB	2.19	0.69
1:P:546:THR:HG22	1:P:548:THR:N	2.05	0.69
1:P:732:ILE:HG21	1:P:747:LEU:HD11	0.73	0.69
1:P:797:PHE:CE2	3:R:146:ILE:HG23	2.27	0.69
1:P:810:ARG:HH11	1:P:810:ARG:HG2	1.57	0.69
2:B:117:LEU:CB	2:B:147:ASN:ND2	2.35	0.69
3:F:25:ILE:O	3:F:63:ILE:HB	1.92	0.69
1:G:641:LYS:HD2	4:V:348:SER:HA	1.73	0.69
1:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	0.69
1:J:782:MLY:C	1:J:783:LEU:HD12	2.22	0.69
1:M:97:LEU:HD22	1:M:712:PRO:CB	2.21	0.69
1:M:546:THR:HG22	1:M:548:THR:N	2.05	0.69
1:M:787:ILE:HG22	1:M:788:THR:N	2.07	0.69
2:N:111:SER:OG	2:N:148:VAL:HG12	1.92	0.69
1:P:56:GLU:CB	1:P:59:MLY:HB3	2.19	0.69
1:D:166:MET:HE1	1:D:254:PHE:HD2	1.56	0.69
1:D:541:MET:CG	4:9:345:ILE:O	2.41	0.69
1:D:553:MLY:HG2	4:W:47:MET:N	2.07	0.69
1:D:831:TRP:HZ2	2:E:47:LEU:CA	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:4:LYS:N	3:F:5:ALA:O	2.16	0.69
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.69
1:J:218:LEU:HB2	1:J:221:GLN:CG	2.09	0.69
1:M:642:LYS:HB3	4:Z:21:PHE:O	1.92	0.69
1:P:218:LEU:HB2	1:P:221:GLN:CG	2.09	0.69
1:P:830:PRO:CB	2:Q:67:MET:HE2	2.23	0.69
4:0:243:PRO:CB	4:Y:291:LYS:HE3	2.23	0.69
1:A:813:ILE:HG21	2:B:127:ARG:CD	1.98	0.69
1:D:800:ARG:HD2	3:F:149:VAL:C	2.16	0.69
1:G:123:CYS:HB2	1:G:158:ILE:CD1	2.23	0.69
1:G:206:LYS:HD3	1:G:217:THR:HG23	0.70	0.69
1:G:577:ALA:O	1:G:578:HIS:CG	2.45	0.69
2:H:140:PHE:O	2:H:141:PRO:C	2.33	0.69
1:J:537:GLU:HG3	4:W:350:SER:O	1.78	0.69
1:J:546:THR:HG22	1:J:548:THR:N	2.05	0.69
1:J:739:ASP:CB	1:J:742:LYS:HB3	2.12	0.69
1:J:801:VAL:CG2	3:L:126:LEU:CD2	2.69	0.69
1:M:97:LEU:HD22	1:M:712:PRO:HB3	1.73	0.69
1:M:806:MET:C	1:M:807:VAL:CA	2.65	0.69
1:P:782:MLY:C	1:P:783:LEU:HD12	2.22	0.69
1:P:807:VAL:O	1:P:810:ARG:HB2	1.93	0.69
1:P:831:TRP:CZ2	2:Q:47:LEU:HD21	2.24	0.69
3:R:25:ILE:O	3:R:63:ILE:HB	1.92	0.69
3:R:48:LYS:HB3	3:R:52:ASN:HD21	1.57	0.69
4:V:1:ASP:HA	4:V:4:GLU:HB3	1.74	0.69
4:W:3:ASP:HA	4:W:6:THR:CB	2.18	0.69
1:A:123:CYS:HB2	1:A:158:ILE:CD1	2.23	0.69
1:A:553:MLY:HG2	4:V:47:MET:N	2.07	0.69
1:A:630:ALA:O	4:8:25:ASP:HB2	1.92	0.69
1:A:642:LYS:HB3	4:8:21:PHE:O	1.92	0.69
1:A:810:ARG:HG2	1:A:810:ARG:HH11	1.57	0.69
1:A:813:ILE:HG22	2:B:127:ARG:HD2	0.69	0.69
2:B:117:LEU:CB	2:B:147:ASN:OD1	2.39	0.69
3:C:48:LYS:C	3:C:52:ASN:HD21	1.97	0.69
1:D:642:LYS:HB3	4:9:21:PHE:O	1.93	0.69
1:D:807:VAL:O	1:D:810:ARG:HB2	1.93	0.69
1:G:506:GLU:OE2	1:G:760:PHE:HB2	1.91	0.69
1:G:796:GLY:CA	3:I:35:ARG:CZ	2.71	0.69
3:I:48:LYS:HB3	3:I:52:ASN:HD21	1.56	0.69
3:L:25:ILE:O	3:L:63:ILE:HB	1.92	0.69
1:M:533:PHE:O	1:M:537:GLU:HG2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:817:GLN:CB	2:N:127:ARG:HD3	2.21	0.69
1:M:831:TRP:NE1	2:N:67:MET:HB3	2.08	0.69
1:P:123:CYS:HB2	1:P:158:ILE:CD1	2.23	0.69
1:P:727:LEU:HG	1:P:779:ARG:NH2	2.04	0.69
1:P:793:ARG:HA	3:R:40:ASN:HB3	1.73	0.69
1:P:815:CYS:O	1:P:819:ASN:HB2	1.93	0.69
1:P:817:GLN:CG	2:Q:127:ARG:HB2	2.22	0.69
4:4:1:ASP:HA	4:4:4:GLU:HB3	1.74	0.69
4:4:3:ASP:HA	4:4:6:THR:CB	2.18	0.69
1:D:713:SER:O	1:D:771:LEU:HD21	1.91	0.69
1:D:782:MLY:C	1:D:783:LEU:HD12	2.22	0.69
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.69
2:H:111:SER:OG	2:H:148:VAL:HG12	1.92	0.69
3:I:3:SER:O	3:I:4:LYS:CB	2.41	0.69
1:J:795:ARG:HG2	3:L:118:MET:CE	2.19	0.69
1:M:215:GLN:CA	1:M:340:ILE:CG2	2.62	0.69
1:M:630:ALA:O	4:Z:25:ASP:HB2	1.92	0.69
1:M:652:LEU:O	1:M:655:GLU:N	2.26	0.69
1:M:806:MET:O	1:M:809:ARG:HB2	1.93	0.69
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.69
4:7:1:ASP:HA	4:7:4:GLU:HB3	1.74	0.69
1:A:815:CYS:O	1:A:819:ASN:HB2	1.93	0.69
1:D:787:ILE:HG22	1:D:788:THR:N	2.07	0.69
1:D:815:CYS:O	1:D:819:ASN:HB2	1.93	0.69
2:E:149:ASP:OD2	2:E:150:TYR:C	2.36	0.69
1:G:556:ASP:OD2	4:X:47:MET:CE	2.39	0.69
1:J:537:GLU:C	4:W:351:THR:N	2.51	0.69
1:M:537:GLU:C	4:Z:351:THR:N	2.51	0.69
4:Y:1:ASP:HA	4:Y:4:GLU:HB3	1.74	0.69
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.19	0.68
1:M:72:VAL:HG13	1:M:76:GLN:CB	2.19	0.68
1:M:166:MET:HE1	1:M:254:PHE:HD2	1.57	0.68
2:N:149:ASP:OD2	2:N:150:TYR:C	2.36	0.68
3:O:3:SER:O	3:O:4:LYS:CB	2.41	0.68
3:O:48:LYS:O	3:O:52:ASN:CG	2.34	0.68
1:P:62:VAL:HG12	1:P:63:MLY:O	1.93	0.68
4:0:1:ASP:HA	4:0:4:GLU:HB3	1.74	0.68
4:9:1:ASP:HA	4:9:4:GLU:HB3	1.74	0.68
1:A:498:LEU:HD23	1:A:764:MLY:HH22	1.75	0.68
2:B:111:SER:OG	2:B:148:VAL:HG12	1.92	0.68
1:D:62:VAL:HG12	1:D:63:MLY:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:537:GLU:C	4:9:351:THR:N	2.51	0.68
3:F:3:SER:O	3:F:4:LYS:CB	2.41	0.68
1:G:553:MLY:HH12	4:X:45:VAL:CG2	2.21	0.68
1:G:815:CYS:O	1:G:819:ASN:HB2	1.93	0.68
1:J:541:MET:CG	4:W:345:ILE:O	2.40	0.68
1:M:213:LYS:HA	1:M:220:ASP:OD1	1.92	0.68
1:M:732:ILE:HG23	1:M:747:LEU:CB	1.84	0.68
1:M:807:VAL:O	1:M:810:ARG:HB2	1.93	0.68
1:M:817:GLN:CB	2:N:127:ARG:NH1	2.38	0.68
3:O:48:LYS:HB3	3:O:52:ASN:HD21	1.57	0.68
1:P:788:THR:O	3:R:42:THR:CG2	2.41	0.68
2:Q:117:LEU:HD12	2:Q:147:ASN:CA	2.19	0.68
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.68
1:A:795:ARG:CB	3:C:35:ARG:NH2	2.51	0.68
3:C:3:SER:O	3:C:4:LYS:CB	2.41	0.68
1:D:630:ALA:O	4:9:25:ASP:CB	2.41	0.68
1:G:533:PHE:O	1:G:537:GLU:HG2	1.93	0.68
1:G:652:LEU:O	1:G:655:GLU:N	2.27	0.68
1:J:166:MET:HE1	1:J:254:PHE:HD2	1.56	0.68
1:M:643:GLY:H	4:Z:23:GLY:C	2.02	0.68
1:M:815:CYS:O	1:M:819:ASN:HB2	1.93	0.68
1:P:802:GLU:OE1	1:P:802:GLU:HA	1.93	0.68
1:P:831:TRP:CH2	2:Q:47:LEU:HD23	2.22	0.68
4:3:160:THR:HG21	4:3:274:ILE:HD11	1.76	0.68
1:A:213:LYS:HA	1:A:220:ASP:OD1	1.92	0.68
1:A:754:ASP:CG	1:A:778:MET:HE1	2.16	0.68
2:E:111:SER:OG	2:E:148:VAL:HG12	1.92	0.68
2:E:163:ALA:C	2:K:22:THR:N	2.51	0.68
1:G:213:LYS:HA	1:G:220:ASP:OD1	1.92	0.68
1:G:755:HIS:CE1	1:G:779:ARG:HH12	2.06	0.68
1:G:782:MLY:C	1:G:783:LEU:HD12	2.22	0.68
1:G:784:ALA:O	1:G:788:THR:HB	1.94	0.68
1:G:798:LEU:CD2	3:I:118:MET:HB3	2.22	0.68
1:J:642:LYS:CG	4:W:22:ALA:C	2.67	0.68
1:J:797:PHE:CG	3:L:146:ILE:CG2	2.61	0.68
1:M:34:ALA:C	1:M:777:GLU:OE2	2.36	0.68
1:M:52:ILE:HD13	1:M:52:ILE:N	2.09	0.68
1:M:408:VAL:HG12	4:Z:332:PRO:HB3	1.76	0.68
1:M:548:THR:O	4:1:47:MET:CB	2.42	0.68
1:P:787:ILE:HG22	1:P:788:THR:N	2.07	0.68
4:W:1:ASP:HA	4:W:4:GLU:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:324:THR:CG2	4:Z:246:GLN:HA	2.23	0.68
1:A:52:ILE:HD13	1:A:52:ILE:N	2.08	0.68
1:A:149:GLN:CB	1:A:718:ALA:C	2.64	0.68
1:A:652:LEU:O	1:A:655:GLU:N	2.27	0.68
1:D:802:GLU:OE1	1:D:802:GLU:HA	1.93	0.68
1:G:787:ILE:HG22	1:G:788:THR:N	2.07	0.68
1:J:533:PHE:O	1:J:537:GLU:HG2	1.93	0.68
1:J:815:CYS:O	1:J:819:ASN:HB2	1.93	0.68
3:L:48:LYS:HB3	3:L:52:ASN:HD21	1.57	0.68
1:M:636:LYS:HG3	4:Z:334:GLU:CD	2.17	0.68
1:M:642:LYS:CG	4:Z:22:ALA:C	2.67	0.68
1:P:820:VAL:CG1	2:Q:136:MET:CE	2.71	0.68
4:2:1:ASP:HA	4:2:4:GLU:HB3	1.74	0.68
4:9:160:THR:HG21	4:9:274:ILE:HD11	1.76	0.68
4:W:160:THR:HG21	4:W:274:ILE:HD11	1.76	0.68
4:Y:160:THR:HG21	4:Y:274:ILE:HD11	1.76	0.68
1:A:93:MET:HE2	1:A:716:LEU:N	2.06	0.68
1:D:800:ARG:CG	3:F:149:VAL:HG22	2.23	0.68
2:E:140:PHE:O	2:E:141:PRO:C	2.33	0.68
1:G:642:LYS:CG	4:V:22:ALA:C	2.66	0.68
1:G:834:LEU:HD12	2:H:51:PHE:CD1	2.27	0.68
1:J:787:ILE:HG22	1:J:788:THR:N	2.07	0.68
1:M:630:ALA:O	4:Z:25:ASP:CB	2.41	0.68
1:P:636:LYS:HG3	4:0:334:GLU:CD	2.17	0.68
4:0:160:THR:HG21	4:0:274:ILE:HD11	1.76	0.68
4:7:160:THR:HG21	4:7:274:ILE:HD11	1.76	0.68
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.68
1:A:630:ALA:O	4:8:25:ASP:CB	2.41	0.68
1:D:533:PHE:O	1:D:537:GLU:HG2	1.93	0.68
1:D:712:PRO:CD	1:D:771:LEU:HD13	2.23	0.68
1:G:52:ILE:HD13	1:G:52:ILE:N	2.09	0.68
1:J:642:LYS:HB3	4:W:21:PHE:O	1.92	0.68
1:M:123:CYS:HB2	1:M:158:ILE:CD1	2.23	0.68
1:M:541:MET:CG	4:Z:345:ILE:O	2.40	0.68
1:M:782:MLY:C	1:M:783:LEU:HD12	2.22	0.68
1:P:642:LYS:HB3	4:0:21:PHE:O	1.92	0.68
4:2:153:LEU:HD11	4:2:274:ILE:HG13	1.76	0.68
1:A:499:GLU:OE2	1:A:766:PHE:CE2	2.47	0.68
1:A:807:VAL:O	1:A:810:ARG:HB2	1.93	0.68
3:C:25:ILE:O	3:C:63:ILE:HB	1.92	0.68
1:D:123:CYS:HB2	1:D:158:ILE:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:408:VAL:HG12	4:V:332:PRO:HB3	1.76	0.68
1:G:537:GLU:C	4:V:351:THR:N	2.51	0.68
1:J:802:GLU:OE1	1:J:802:GLU:HA	1.93	0.68
1:J:829:TRP:CE2	2:K:87:LYS:CE	2.76	0.68
2:K:117:LEU:CB	2:K:147:ASN:OD1	2.39	0.68
1:M:550:PHE:HE2	1:M:592:ILE:HG23	1.59	0.68
1:P:166:MET:HE1	1:P:254:PHE:HD2	1.56	0.68
1:P:550:PHE:HE2	1:P:592:ILE:HG23	1.59	0.68
1:P:806:MET:CA	1:P:809:ARG:HB2	2.23	0.68
3:R:3:SER:O	3:R:4:LYS:CB	2.41	0.68
1:A:56:GLU:CB	1:A:59:MLY:HB3	2.19	0.68
1:D:550:PHE:HE2	1:D:592:ILE:HG23	1.59	0.68
1:D:642:LYS:CG	4:9:22:ALA:C	2.67	0.68
1:D:713:SER:HB3	1:D:775:LEU:HD22	1.75	0.68
3:F:48:LYS:HB3	3:F:52:ASN:HD21	1.57	0.68
1:G:541:MET:CG	4:V:345:ILE:O	2.41	0.68
1:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.68
1:G:807:VAL:O	1:G:810:ARG:HB2	1.93	0.68
1:J:62:VAL:HG12	1:J:63:MLY:O	1.94	0.68
1:J:807:VAL:O	1:J:810:ARG:HB2	1.93	0.68
1:J:826:VAL:CG2	2:K:88:LEU:CD2	2.55	0.68
1:M:806:MET:CA	1:M:809:ARG:HB2	2.23	0.68
1:M:820:VAL:HG11	2:N:136:MET:HE3	1.76	0.68
4:1:322:PRO:CB	4:3:244:ASP:HB2	2.23	0.68
2:E:117:LEU:CG	2:E:147:ASN:HB3	2.24	0.68
1:G:802:GLU:OE1	1:G:802:GLU:HA	1.93	0.68
1:J:123:CYS:HB2	1:J:158:ILE:CD1	2.23	0.68
2:K:117:LEU:HD12	2:K:147:ASN:CA	2.19	0.68
1:M:505:MLY:HH23	1:M:762:HIS:CE1	2.29	0.68
3:O:102:VAL:HG23	3:O:139:TYR:HD1	1.59	0.68
1:P:795:ARG:NE	3:R:116:GLU:OE2	2.27	0.68
1:P:798:LEU:CG	3:R:126:LEU:CD1	2.44	0.68
4:1:203:THR:CB	4:Z:288:ASP:OD2	2.42	0.68
4:4:153:LEU:HD11	4:4:274:ILE:HG13	1.76	0.68
1:A:58:GLY:HA2	1:A:74:GLU:OE1	1.95	0.67
1:A:408:VAL:HG12	4:8:332:PRO:HB3	1.76	0.67
1:A:506:GLU:CB	1:A:760:PHE:C	2.59	0.67
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.67
1:D:534:SER:C	4:9:351:THR:CA	2.47	0.67
1:D:652:LEU:O	1:D:655:GLU:N	2.26	0.67
1:D:819:ASN:ND2	2:E:90:GLY:O	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:HB3	4:V:21:PHE:O	1.92	0.67
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.67
1:P:537:GLU:C	4:0:351:THR:N	2.51	0.67
4:1:203:THR:HG21	4:Z:288:ASP:CB	2.25	0.67
4:3:288:ASP:CB	4:5:203:THR:HG21	2.25	0.67
4:X:160:THR:HG21	4:X:274:ILE:HD11	1.76	0.67
1:A:541:MET:CG	4:8:345:ILE:O	2.40	0.67
1:A:546:THR:H	1:A:549:SER:HB3	1.59	0.67
2:B:141:PRO:O	2:B:145:ALA:CB	2.43	0.67
1:D:546:THR:HG22	1:D:548:THR:N	2.05	0.67
1:G:795:ARG:CB	3:I:35:ARG:HH22	2.06	0.67
2:H:149:ASP:OD2	2:H:150:TYR:C	2.36	0.67
1:J:643:GLY:N	4:W:24:ASP:CA	2.46	0.67
1:J:820:VAL:HG11	2:K:136:MET:HE1	1.76	0.67
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	0.67
3:L:3:SER:O	3:L:4:LYS:CB	2.41	0.67
1:M:290:GLN:O	1:M:331:LEU:HD12	1.95	0.67
1:P:148:ARG:NH2	1:P:764:MLY:HH21	2.09	0.67
1:P:642:LYS:CG	4:0:22:ALA:C	2.67	0.67
1:P:799:MET:SD	3:R:32:ASP:CB	2.83	0.67
2:Q:149:ASP:OD2	2:Q:150:TYR:C	2.36	0.67
4:0:153:LEU:HD11	4:0:274:ILE:HG13	1.76	0.67
4:1:160:THR:HG21	4:1:274:ILE:HD11	1.76	0.67
4:V:325:MET:CE	4:X:244:ASP:CB	2.70	0.67
4:Y:153:LEU:HD11	4:Y:274:ILE:HG13	1.76	0.67
2:B:149:ASP:OD2	2:B:150:TYR:C	2.37	0.67
1:G:643:GLY:H	4:V:23:GLY:C	2.02	0.67
1:J:374:GLN:HG3	1:J:375:ALA:H	1.59	0.67
2:K:117:LEU:CG	2:K:147:ASN:HB3	2.24	0.67
1:P:546:THR:H	1:P:549:SER:HB3	1.59	0.67
1:A:97:LEU:CD2	1:A:712:PRO:CA	2.72	0.67
1:A:730:SER:C	1:A:733:PRO:HD2	2.20	0.67
1:D:215:GLN:HA	1:D:340:ILE:CB	2.23	0.67
1:D:546:THR:H	1:D:549:SER:HB3	1.59	0.67
1:J:546:THR:H	1:J:549:SER:HB3	1.59	0.67
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	0.67
1:M:505:MLY:HH23	1:M:762:HIS:HD1	1.60	0.67
1:M:541:MET:C	4:Z:143:TYR:CZ	2.72	0.67
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.76	0.67
4:V:153:LEU:HD11	4:V:274:ILE:HG13	1.76	0.67
4:W:153:LEU:HD11	4:W:274:ILE:HG13	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:160:THR:HG21	4:Z:274:ILE:HD11	1.76	0.67
1:A:732:ILE:HG22	1:A:747:LEU:CD1	1.55	0.67
1:D:131:TRP:O	1:D:132:LEU:HD12	1.94	0.67
1:D:768:MLY:HA	1:D:771:LEU:CD1	2.23	0.67
3:F:49:ILE:HA	3:F:52:ASN:ND2	2.05	0.67
2:H:117:LEU:CG	2:H:147:ASN:HB3	2.24	0.67
1:M:217:THR:O	1:M:221:GLN:HG2	1.95	0.67
1:M:218:LEU:HA	1:M:221:GLN:HG3	1.71	0.67
1:M:374:GLN:HG3	1:M:375:ALA:H	1.59	0.67
1:M:830:PRO:CB	2:N:67:MET:HE2	2.25	0.67
1:P:131:TRP:O	1:P:132:LEU:HD12	1.95	0.67
1:P:652:LEU:O	1:P:655:GLU:N	2.27	0.67
1:P:785:GLU:C	1:P:786:ILE:HA	2.18	0.67
4:5:160:THR:HG21	4:5:274:ILE:HD11	1.76	0.67
4:8:153:LEU:HD11	4:8:274:ILE:HG13	1.76	0.67
1:A:550:PHE:HA	4:V:46:GLY:HA3	1.66	0.67
1:G:28:GLN:CB	1:G:723:ARG:HH12	2.05	0.67
1:G:58:GLY:HA2	1:G:74:GLU:OE1	1.95	0.67
1:G:217:THR:O	1:G:221:GLN:HG2	1.95	0.67
1:G:797:PHE:CZ	3:I:126:LEU:CD2	2.60	0.67
1:G:826:VAL:HG21	2:H:88:LEU:HD21	1.77	0.67
1:M:62:VAL:HG12	1:M:63:MLY:O	1.94	0.67
1:P:730:SER:C	1:P:733:PRO:HD2	2.19	0.67
1:A:533:PHE:O	1:A:537:GLU:HG2	1.93	0.67
1:A:817:GLN:HG3	2:B:127:ARG:CD	2.13	0.67
1:A:831:TRP:CE3	2:B:34:ILE:CG1	2.75	0.67
1:D:52:ILE:HD13	1:D:52:ILE:N	2.09	0.67
1:D:480:ILE:HG22	1:D:481:ASN:ND2	2.09	0.67
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	0.67
2:H:117:LEU:CB	2:H:147:ASN:OD1	2.39	0.67
1:J:480:ILE:HG22	1:J:481:ASN:ND2	2.10	0.67
1:J:652:LEU:O	1:J:655:GLU:N	2.27	0.67
1:J:730:SER:C	1:J:733:PRO:HD2	2.19	0.67
1:M:78:PHE:HB3	1:M:98:HIS:CD2	2.30	0.67
1:P:374:GLN:HG3	1:P:375:ALA:H	1.59	0.67
1:P:806:MET:N	1:P:807:VAL:N	2.43	0.67
3:R:102:VAL:HG23	3:R:139:TYR:HD1	1.59	0.67
1:A:217:THR:O	1:A:221:GLN:HG2	1.95	0.67
1:A:768:MLY:C	1:A:771:LEU:CB	2.72	0.67
1:G:553:MLY:CD	4:X:45:VAL:HG12	2.23	0.67
1:J:831:TRP:HE1	2:K:67:MET:HB3	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:141:PRO:O	2:K:145:ALA:CB	2.43	0.67
1:M:35:MLY:HG3	1:M:777:GLU:CD	2.19	0.67
1:M:648:THR:CB	4:Z:350:SER:OG	2.43	0.67
2:N:117:LEU:CG	2:N:147:ASN:HB3	2.25	0.67
1:P:612:GLN:NE2	1:P:627:GLY:N	2.43	0.67
2:B:117:LEU:CG	2:B:147:ASN:HB3	2.24	0.67
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.67
1:G:752:ASP:OD1	1:G:783:LEU:N	2.28	0.67
1:G:831:TRP:HZ3	2:H:34:ILE:HG21	1.60	0.67
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.67
1:J:58:GLY:HA2	1:J:74:GLU:OE1	1.95	0.67
1:J:131:TRP:O	1:J:132:LEU:HD12	1.95	0.67
1:J:290:GLN:O	1:J:331:LEU:HD12	1.95	0.67
1:J:826:VAL:CG2	2:K:88:LEU:HD23	2.24	0.67
1:P:290:GLN:O	1:P:331:LEU:HD12	1.95	0.67
1:P:635:GLY:O	4:0:341:ILE:HG21	1.95	0.67
1:P:767:PHE:CG	1:P:772:LEU:CD2	2.78	0.67
2:Q:141:PRO:O	2:Q:145:ALA:CB	2.43	0.67
3:R:24:LYS:HA	3:R:63:ILE:O	1.95	0.67
1:A:62:VAL:HG12	1:A:63:MLY:O	1.93	0.67
1:A:505:MLY:HD2	1:A:741:LYS:NZ	2.09	0.67
1:D:58:GLY:HA2	1:D:74:GLU:OE1	1.95	0.67
1:D:648:THR:CB	4:9:350:SER:OG	2.43	0.67
1:D:725:ARG:CA	1:D:782:MLY:HH22	2.16	0.67
1:G:78:PHE:HB3	1:G:98:HIS:CD2	2.30	0.67
1:G:202:SER:HA	1:G:207:LYS:HE3	1.72	0.67
1:J:408:VAL:HG12	4:W:332:PRO:HB3	1.76	0.67
1:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.67
1:J:757:GLN:CA	1:J:776:GLU:HG3	2.23	0.67
1:M:730:SER:C	1:M:733:PRO:HD2	2.20	0.67
2:N:141:PRO:O	2:N:145:ALA:CB	2.43	0.67
3:R:48:LYS:C	3:R:52:ASN:HD21	1.96	0.67
4:V:160:THR:HG21	4:V:274:ILE:HD11	1.76	0.67
4:X:153:LEU:HD11	4:X:274:ILE:HG13	1.76	0.67
1:A:61:THR:HG23	1:A:71:THR:OG1	1.94	0.66
1:A:97:LEU:HD23	1:A:712:PRO:CB	2.21	0.66
1:A:149:GLN:HG2	1:A:719:ASP:OD1	1.94	0.66
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.66
3:C:102:VAL:HG23	3:C:139:TYR:HD1	1.60	0.66
1:D:795:ARG:NH2	3:F:116:GLU:CB	2.30	0.66
1:G:62:VAL:HG12	1:G:63:MLY:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:290:GLN:O	1:G:331:LEU:HD12	1.95	0.66
3:I:24:LYS:HA	3:I:63:ILE:O	1.95	0.66
1:J:541:MET:O	4:W:143:TYR:OH	2.13	0.66
1:M:174:SER:O	1:M:670:HIS:HB2	1.95	0.66
1:M:795:ARG:NE	3:O:118:MET:HE1	2.09	0.66
1:P:408:VAL:HG12	4:0:332:PRO:HB3	1.76	0.66
1:P:418:THR:HG22	1:P:419:VAL:N	2.11	0.66
1:P:533:PHE:O	1:P:537:GLU:HG2	1.93	0.66
1:P:541:MET:C	4:0:143:TYR:CZ	2.73	0.66
1:P:648:THR:CB	4:0:350:SER:OG	2.43	0.66
1:P:804:ARG:O	1:P:808:GLU:HG3	1.94	0.66
4:4:160:THR:HG21	4:4:274:ILE:HD11	1.76	0.66
1:A:78:PHE:HB3	1:A:98:HIS:CD2	2.30	0.66
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.66
1:A:550:PHE:HE2	1:A:592:ILE:HG23	1.59	0.66
1:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.66
1:A:739:ASP:CB	1:A:742:LYS:HB3	2.12	0.66
1:D:374:GLN:HG3	1:D:375:ALA:H	1.60	0.66
1:D:418:THR:HG22	1:D:419:VAL:N	2.11	0.66
1:D:642:LYS:CD	4:9:24:ASP:O	2.42	0.66
1:G:541:MET:C	4:V:143:TYR:CZ	2.73	0.66
1:P:58:GLY:HA2	1:P:74:GLU:OE1	1.95	0.66
1:P:508:ILE:HD11	1:P:759:ALA:HB2	0.70	0.66
4:1:287:ILE:CG2	4:3:202:THR:C	2.69	0.66
4:Z:153:LEU:HD11	4:Z:274:ILE:HG13	1.76	0.66
1:A:757:GLN:HB3	1:A:771:LEU:HD13	1.63	0.66
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.66
1:D:612:GLN:NE2	1:D:627:GLY:N	2.43	0.66
2:E:141:PRO:O	2:E:145:ALA:CB	2.43	0.66
1:G:61:THR:HG23	1:G:71:THR:OG1	1.94	0.66
1:G:174:SER:O	1:G:670:HIS:HB2	1.96	0.66
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.66
1:M:131:TRP:O	1:M:132:LEU:HD12	1.95	0.66
1:M:544:LYS:C	4:1:45:VAL:HG11	2.20	0.66
1:M:785:GLU:O	1:M:786:ILE:N	2.27	0.66
4:8:160:THR:HG21	4:8:274:ILE:HD11	1.76	0.66
4:W:324:THR:HG22	4:Y:247:VAL:HG13	1.77	0.66
1:A:174:SER:O	1:A:670:HIS:HB2	1.96	0.66
1:D:226:ASN:HB2	1:D:227:PRO:HD3	1.78	0.66
1:G:131:TRP:O	1:G:132:LEU:HD12	1.95	0.66
1:G:599:ASN:OD1	1:G:649:VAL:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:639:GLY:N	4:V:344:SER:C	2.54	0.66
1:J:52:ILE:HD13	1:J:52:ILE:N	2.09	0.66
1:P:217:THR:O	1:P:221:GLN:HG2	1.95	0.66
1:P:541:MET:O	4:0:143:TYR:OH	2.14	0.66
1:P:544:LYS:NZ	4:2:45:VAL:CG2	2.59	0.66
1:P:599:ASN:OD1	1:P:649:VAL:N	2.29	0.66
1:P:643:GLY:H	4:0:23:GLY:C	2.02	0.66
4:9:153:LEU:HD11	4:9:274:ILE:HG13	1.76	0.66
1:A:480:ILE:HG22	1:A:481:ASN:ND2	2.10	0.66
1:A:648:THR:CB	4:8:350:SER:OG	2.43	0.66
1:D:599:ASN:OD1	1:D:649:VAL:N	2.29	0.66
1:D:732:ILE:CD1	1:D:782:MLY:HH13	2.21	0.66
3:F:102:VAL:HG23	3:F:139:TYR:HD1	1.59	0.66
1:G:648:THR:CB	4:V:350:SER:OG	2.44	0.66
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.66
1:J:541:MET:C	4:W:143:TYR:CZ	2.72	0.66
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.93	0.66
1:M:84:MLY:HD3	1:M:723:ARG:CD	2.25	0.66
1:M:639:GLY:N	4:Z:344:SER:C	2.54	0.66
1:P:339:ASP:OD1	1:P:348:MLY:HH13	1.95	0.66
4:X:291:LYS:HB2	4:Z:244:ASP:CB	2.20	0.66
1:A:97:LEU:HD23	1:A:712:PRO:CA	2.26	0.66
1:A:541:MET:C	4:8:143:TYR:CZ	2.73	0.66
1:A:642:LYS:CD	4:8:24:ASP:O	2.42	0.66
1:A:643:GLY:N	4:8:24:ASP:CA	2.46	0.66
1:D:339:ASP:OD1	1:D:348:MLY:HH13	1.95	0.66
1:D:408:VAL:HG12	4:9:332:PRO:HB3	1.76	0.66
1:D:726:VAL:CG1	1:D:785:GLU:HG3	2.23	0.66
1:G:556:ASP:CG	4:X:47:MET:HE2	1.84	0.66
1:J:78:PHE:HB3	1:J:98:HIS:CD2	2.30	0.66
1:J:322:VAL:HB	1:J:325:ILE:CD1	2.26	0.66
1:J:635:GLY:O	4:W:341:ILE:HG21	1.95	0.66
1:J:793:ARG:NH2	3:L:147:MET:HE3	2.04	0.66
1:J:829:TRP:CZ3	2:K:84:PHE:CE2	2.69	0.66
1:J:832:MET:SD	2:K:84:PHE:HE2	2.17	0.66
2:K:141:PRO:O	2:K:145:ALA:HB2	1.96	0.66
1:P:93:MET:CE	1:P:764:MLY:HD3	2.25	0.66
1:P:480:ILE:HG22	1:P:481:ASN:ND2	2.09	0.66
2:Q:117:LEU:CG	2:Q:147:ASN:HB3	2.24	0.66
1:A:131:TRP:O	1:A:132:LEU:HD12	1.94	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:322:VAL:HB	1:D:325:ILE:CD1	2.26	0.66
1:D:635:GLY:O	4:9:341:ILE:HG21	1.95	0.66
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.66
1:D:831:TRP:CH2	2:E:50:THR:HB	2.31	0.66
2:E:141:PRO:O	2:E:145:ALA:HB2	1.96	0.66
1:G:226:ASN:HB2	1:G:227:PRO:HD3	1.78	0.66
1:J:795:ARG:NE	3:L:43:ASN:OD1	2.27	0.66
3:L:24:LYS:HA	3:L:63:ILE:O	1.95	0.66
1:M:34:ALA:CB	1:M:777:GLU:CD	2.56	0.66
1:M:530:MET:CA	4:Z:354:GLN:CB	2.74	0.66
1:M:635:GLY:O	4:Z:341:ILE:HG21	1.95	0.66
1:M:795:ARG:HG2	3:O:118:MET:SD	2.34	0.66
1:P:174:SER:O	1:P:670:HIS:HB2	1.95	0.66
1:P:322:VAL:HB	1:P:325:ILE:CD1	2.26	0.66
1:P:797:PHE:HE1	3:R:149:VAL:HG12	1.55	0.66
4:1:153:LEU:HD11	4:1:274:ILE:HG13	1.76	0.66
4:7:153:LEU:HD11	4:7:274:ILE:HG13	1.76	0.66
1:A:538:GLU:HA	4:8:349:LEU:HB3	1.78	0.66
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	0.66
1:A:839:MLY:HH11	2:B:159:HIS:HD2	1.59	0.66
1:D:290:GLN:O	1:D:331:LEU:HD12	1.95	0.66
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.66
1:G:783:LEU:O	1:G:787:ILE:CA	2.43	0.66
1:J:174:SER:O	1:J:670:HIS:HB2	1.95	0.66
1:J:339:ASP:OD1	1:J:348:MLY:HH13	1.95	0.66
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.66
1:J:648:THR:CB	4:W:350:SER:OG	2.43	0.66
1:M:61:THR:HG23	1:M:71:THR:OG1	1.95	0.66
1:M:418:THR:HG22	1:M:419:VAL:N	2.11	0.66
1:M:732:ILE:HG21	1:M:747:LEU:HD11	0.73	0.66
1:P:797:PHE:CZ	3:R:146:ILE:CA	2.70	0.66
1:P:831:TRP:CZ3	2:Q:34:ILE:HD13	2.27	0.66
4:2:287:ILE:HG22	4:4:204:ALA:HB3	1.76	0.66
4:V:288:ASP:H	4:X:204:ALA:H	1.43	0.66
4:X:324:THR:CB	4:Z:247:VAL:H	2.04	0.66
1:A:144:ARG:NH1	1:A:160:ASP:OD1	2.29	0.66
1:A:296:MLY:HH11	1:A:348:MLY:HH21	1.78	0.66
1:A:530:MET:CA	4:8:354:GLN:CB	2.74	0.66
1:A:795:ARG:CD	3:C:35:ARG:NH1	2.29	0.66
1:D:823:PHE:CE1	2:E:161:GLU:N	2.64	0.66
1:G:374:GLN:HG3	1:G:375:ALA:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:612:GLN:NE2	1:G:627:GLY:N	2.43	0.66
1:G:635:GLY:O	4:V:341:ILE:HG21	1.95	0.66
3:I:102:VAL:HG23	3:I:139:TYR:HD1	1.59	0.66
1:M:612:GLN:NE2	1:M:627:GLY:N	2.43	0.66
1:P:52:ILE:HD13	1:P:52:ILE:N	2.09	0.66
1:P:61:THR:HG23	1:P:71:THR:OG1	1.95	0.66
1:P:642:LYS:HA	4:0:21:PHE:O	1.96	0.66
1:P:829:TRP:CH2	2:Q:83:MET:HE3	2.31	0.66
1:P:839:MLY:HH21	2:Q:158:THR:HG22	1.77	0.66
1:A:643:GLY:H	4:8:23:GLY:C	2.02	0.66
1:A:709:LYS:O	1:A:710:GLY:CA	2.44	0.66
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	0.66
3:C:45:GLU:O	3:C:49:ILE:HG13	1.96	0.66
1:D:61:THR:HG23	1:D:71:THR:OG1	1.95	0.66
1:D:217:THR:O	1:D:221:GLN:HG2	1.95	0.66
1:D:466:GLY:HA2	1:D:484:ASN:HD21	1.61	0.66
1:D:541:MET:O	4:9:143:TYR:OH	2.14	0.66
2:E:146:GLY:O	2:E:147:ASN:HB2	1.96	0.66
1:G:480:ILE:HG22	1:G:481:ASN:N	2.11	0.66
1:G:480:ILE:HG22	1:G:481:ASN:ND2	2.10	0.66
1:G:508:ILE:CD1	1:G:759:ALA:HB2	2.08	0.66
1:J:144:ARG:NH1	1:J:160:ASP:OD1	2.29	0.66
1:J:226:ASN:HB2	1:J:227:PRO:HD3	1.78	0.66
1:J:643:GLY:H	4:W:23:GLY:C	2.02	0.66
1:M:217:THR:C	1:M:221:GLN:HG2	2.21	0.66
1:M:546:THR:H	1:M:549:SER:HB3	1.59	0.66
1:M:691:VAL:O	1:M:695:LEU:HD13	1.96	0.66
1:M:786:ILE:C	1:M:789:ALA:HB3	2.21	0.66
3:O:24:LYS:HA	3:O:63:ILE:O	1.95	0.66
1:P:639:GLY:N	4:0:344:SER:C	2.54	0.66
4:0:205:GLU:CG	4:Y:287:ILE:HD13	2.26	0.66
4:1:288:ASP:H	4:3:203:THR:CG2	2.08	0.66
4:5:153:LEU:HD11	4:5:274:ILE:HG13	1.76	0.66
1:D:217:THR:C	1:D:221:GLN:HG2	2.21	0.65
1:D:691:VAL:O	1:D:695:LEU:HD13	1.97	0.65
1:G:144:ARG:NH1	1:G:160:ASP:OD1	2.29	0.65
1:G:161:ASN:O	1:G:165:PHE:HB2	1.96	0.65
1:G:339:ASP:OD1	1:G:348:MLY:HH13	1.95	0.65
1:J:599:ASN:OD1	1:J:649:VAL:N	2.29	0.65
1:M:58:GLY:HA2	1:M:74:GLU:OE1	1.95	0.65
1:M:480:ILE:HG22	1:M:481:ASN:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:538:GLU:HA	4:Z:349:LEU:HB3	1.78	0.65
1:P:78:PHE:HB3	1:P:98:HIS:CD2	2.30	0.65
1:P:793:ARG:HD3	3:R:40:ASN:HD22	1.43	0.65
1:A:161:ASN:O	1:A:165:PHE:HB2	1.96	0.65
1:D:78:PHE:HB3	1:D:98:HIS:CD2	2.30	0.65
1:D:727:LEU:H	1:D:782:MLY:HE2	1.58	0.65
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.65
1:G:466:GLY:HA2	1:G:484:ASN:HD21	1.61	0.65
1:J:61:THR:HG23	1:J:71:THR:OG1	1.95	0.65
1:J:829:TRP:CH2	2:K:87:LYS:CE	2.79	0.65
1:J:838:ILE:HD12	2:K:54:MET:HE3	1.74	0.65
2:K:146:GLY:O	2:K:147:ASN:HB2	1.96	0.65
1:M:144:ARG:NH1	1:M:160:ASP:OD1	2.29	0.65
1:M:599:ASN:OD1	1:M:649:VAL:N	2.29	0.65
1:M:642:LYS:CD	4:Z:24:ASP:O	2.43	0.65
1:M:795:ARG:CB	3:O:35:ARG:CZ	2.73	0.65
1:P:161:ASN:O	1:P:165:PHE:HB2	1.96	0.65
1:P:665:ARG:C	1:P:667:THR:H	2.05	0.65
1:P:691:VAL:O	1:P:695:LEU:HD13	1.96	0.65
4:3:153:LEU:HD11	4:3:274:ILE:HG13	1.76	0.65
1:A:339:ASP:OD1	1:A:348:MLY:HH13	1.96	0.65
1:G:541:MET:O	4:V:143:TYR:OH	2.13	0.65
1:J:665:ARG:C	1:J:667:THR:H	2.05	0.65
1:M:296:MLY:HH11	1:M:348:MLY:HH21	1.78	0.65
1:M:466:GLY:HA2	1:M:484:ASN:ND2	2.11	0.65
2:N:144:VAL:CG1	2:N:153:ILE:HD13	2.19	0.65
1:A:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.65
1:A:149:GLN:CB	1:A:719:ASP:OD1	2.43	0.65
1:A:635:GLY:O	4:8:341:ILE:HG21	1.95	0.65
1:A:665:ARG:C	1:A:667:THR:H	2.04	0.65
1:D:643:GLY:H	4:9:23:GLY:C	2.02	0.65
1:G:296:MLY:HH11	1:G:348:MLY:HH21	1.79	0.65
1:J:217:THR:O	1:J:221:GLN:HG2	1.95	0.65
1:J:567:LYS:NZ	4:Y:92:ASN:HA	2.10	0.65
1:J:691:VAL:O	1:J:695:LEU:HD13	1.96	0.65
1:M:410:ASN:CG	4:Z:334:GLU:C	2.65	0.65
1:M:792:ALA:CB	3:O:42:THR:HG22	2.19	0.65
1:P:805:ALA:O	1:P:809:ARG:CB	2.45	0.65
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.65
1:D:530:MET:CA	4:9:354:GLN:CB	2.74	0.65
1:D:822:SER:O	1:D:825:ASN:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:45:GLU:O	3:F:49:ILE:HG13	1.97	0.65
1:G:691:VAL:O	1:G:695:LEU:HD13	1.97	0.65
1:G:754:ASP:CG	1:G:779:ARG:CD	2.62	0.65
1:J:161:ASN:O	1:J:165:PHE:HB2	1.96	0.65
1:J:642:LYS:HA	4:W:21:PHE:O	1.96	0.65
1:J:800:ARG:HB3	3:L:149:VAL:CG1	2.27	0.65
1:M:480:ILE:HG22	1:M:481:ASN:ND2	2.10	0.65
1:M:831:TRP:HE1	2:N:67:MET:CG	2.10	0.65
1:P:530:MET:CA	4:0:354:GLN:CB	2.74	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
3:C:24:LYS:HA	3:C:63:ILE:O	1.95	0.65
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.65
1:G:530:MET:CG	4:V:354:GLN:CG	2.72	0.65
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.65
1:J:217:THR:C	1:J:221:GLN:HG2	2.21	0.65
1:J:418:THR:HG22	1:J:419:VAL:N	2.10	0.65
1:M:226:ASN:HB2	1:M:227:PRO:HD3	1.77	0.65
1:A:217:THR:C	1:A:221:GLN:HG2	2.21	0.65
1:A:466:GLY:HA2	1:A:484:ASN:ND2	2.11	0.65
1:A:822:SER:O	1:A:825:ASN:HB2	1.97	0.65
2:B:146:GLY:O	2:B:147:ASN:HB2	1.96	0.65
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.65
1:D:797:PHE:HD1	3:F:146:ILE:O	1.80	0.65
1:D:800:ARG:HB3	3:F:149:VAL:HG13	1.78	0.65
1:G:84:MLY:HG2	1:G:723:ARG:HD2	1.75	0.65
1:G:725:ARG:NE	1:G:737:PHE:HE1	1.95	0.65
1:J:791:GLN:NE2	3:L:115:GLY:CA	2.60	0.65
1:J:822:SER:O	1:J:825:ASN:HB2	1.97	0.65
1:M:202:SER:HA	1:M:207:LYS:HE3	1.72	0.65
1:M:725:ARG:NE	1:M:737:PHE:HE1	1.95	0.65
3:O:45:GLU:O	3:O:49:ILE:HG13	1.97	0.65
1:P:466:GLY:HA2	1:P:484:ASN:HD21	1.61	0.65
4:1:287:ILE:HG21	4:3:204:ALA:N	2.11	0.65
4:X:285:CYS:O	4:Z:202:THR:CG2	2.44	0.65
1:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.65
1:A:322:VAL:HB	1:A:325:ILE:CD1	2.26	0.65
1:A:374:GLN:HG3	1:A:375:ALA:H	1.60	0.65
1:A:642:LYS:HA	4:8:21:PHE:O	1.96	0.65
1:A:809:ARG:NH1	2:B:124:GLY:CA	2.59	0.65
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:612:GLN:HE22	1:D:627:GLY:N	1.94	0.65
1:D:665:ARG:C	1:D:667:THR:H	2.05	0.65
3:L:45:GLU:O	3:L:49:ILE:HG13	1.96	0.65
2:N:117:LEU:HD11	2:N:147:ASN:HB3	1.76	0.65
1:P:226:ASN:HB2	1:P:227:PRO:HD3	1.78	0.65
1:P:795:ARG:HH21	3:R:116:GLU:CA	2.01	0.65
1:P:795:ARG:NE	3:R:43:ASN:OD1	2.28	0.65
2:Q:146:GLY:O	2:Q:147:ASN:HB2	1.96	0.65
1:A:806:MET:HE1	3:C:17:PHE:CE2	2.32	0.65
1:A:836:PHE:CE1	2:B:159:HIS:CB	2.78	0.65
2:B:117:LEU:HD11	2:B:147:ASN:HB3	1.75	0.65
1:D:479:CYS:HB3	1:D:653:PHE:CE2	2.32	0.65
1:D:530:MET:CG	4:9:354:GLN:CG	2.71	0.65
1:D:724:TYR:HB3	1:D:782:MLY:CD	2.21	0.65
1:D:838:ILE:HD12	2:E:54:MET:CE	2.23	0.65
1:G:217:THR:C	1:G:221:GLN:HG2	2.21	0.65
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.65
1:J:466:GLY:HA2	1:J:484:ASN:ND2	2.12	0.65
1:J:530:MET:CA	4:W:354:GLN:CB	2.74	0.65
1:P:612:GLN:HE22	1:P:627:GLY:N	1.95	0.65
1:P:724:TYR:CE1	1:P:776:GLU:CD	2.67	0.65
2:Q:141:PRO:O	2:Q:145:ALA:HB2	1.96	0.65
4:0:205:GLU:HG3	4:Y:287:ILE:HB	0.70	0.65
4:V:324:THR:HG23	4:X:247:VAL:H	1.61	0.65
1:A:93:MET:SD	1:A:715:VAL:HG13	2.36	0.65
1:A:217:THR:HB	1:A:220:ASP:OD2	1.97	0.65
1:A:226:ASN:HB2	1:A:227:PRO:HD3	1.78	0.65
1:A:553:MLY:CE	4:V:45:VAL:CA	2.49	0.65
1:A:768:MLY:C	1:A:771:LEU:HB3	2.28	0.65
1:D:144:ARG:NH1	1:D:160:ASP:OD1	2.30	0.65
1:D:795:ARG:HE	3:F:116:GLU:HB3	1.62	0.65
1:D:797:PHE:CD1	3:F:146:ILE:CA	2.80	0.65
1:D:813:ILE:CD1	2:E:128:PHE:HE1	2.00	0.65
2:E:163:ALA:C	2:K:21:GLU:HB3	2.22	0.65
1:G:797:PHE:HE2	3:I:126:LEU:CD1	2.10	0.65
1:J:800:ARG:HH22	3:L:40:ASN:HD21	1.28	0.65
1:M:161:ASN:O	1:M:165:PHE:HB2	1.96	0.65
1:M:636:LYS:O	1:M:637:LYS:CB	2.45	0.65
1:M:642:LYS:HA	4:Z:21:PHE:O	1.96	0.65
1:M:819:ASN:ND2	2:N:92:ASP:CB	2.49	0.65
1:P:217:THR:C	1:P:221:GLN:HG2	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:466:GLY:HA2	1:P:484:ASN:ND2	2.12	0.65
1:P:538:GLU:HA	4:0:349:LEU:HB3	1.78	0.65
1:P:636:LYS:O	1:P:637:LYS:CB	2.45	0.65
1:P:797:PHE:HE2	3:R:126:LEU:HD22	1.62	0.65
1:A:218:LEU:CD2	1:A:222:ILE:HG12	2.28	0.64
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.64
1:D:296:MLY:HH11	1:D:348:MLY:HH21	1.78	0.64
1:D:466:GLY:HA2	1:D:484:ASN:ND2	2.12	0.64
1:D:642:LYS:HA	4:9:21:PHE:O	1.96	0.64
1:G:97:LEU:HD22	1:G:712:PRO:HB2	1.79	0.64
1:G:107:MLY:HB3	1:G:686:MET:CE	2.26	0.64
1:G:642:LYS:HA	4:V:21:PHE:O	1.97	0.64
1:G:822:SER:O	1:G:825:ASN:HB2	1.97	0.64
1:J:612:GLN:HE22	1:J:627:GLY:N	1.94	0.64
1:M:665:ARG:C	1:M:667:THR:H	2.05	0.64
1:M:793:ARG:HD3	3:O:40:ASN:ND2	2.11	0.64
2:N:141:PRO:O	2:N:145:ALA:HB2	1.96	0.64
1:P:144:ARG:NH1	1:P:160:ASP:OD1	2.29	0.64
1:P:725:ARG:NE	1:P:737:PHE:HE1	1.95	0.64
1:P:819:ASN:OD1	2:Q:92:ASP:CA	2.45	0.64
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	0.64
2:B:144:VAL:CG1	2:B:153:ILE:HD13	2.19	0.64
1:D:480:ILE:HG22	1:D:481:ASN:N	2.11	0.64
1:D:636:LYS:O	1:D:637:LYS:CB	2.45	0.64
1:D:642:LYS:CD	4:9:340:TRP:CZ3	2.79	0.64
1:G:466:GLY:HA2	1:G:484:ASN:ND2	2.12	0.64
1:G:665:ARG:C	1:G:667:THR:H	2.04	0.64
1:J:725:ARG:NE	1:J:737:PHE:HE1	1.95	0.64
1:M:94:MET:HE1	1:M:101:ALA:HB1	1.79	0.64
1:M:133:PRO:O	1:M:136:ASN:HB2	1.98	0.64
1:M:339:ASP:OD1	1:M:348:MLY:HH13	1.95	0.64
1:M:817:GLN:HB3	2:N:127:ARG:CZ	2.27	0.64
1:P:217:THR:HB	1:P:220:ASP:OD2	1.97	0.64
1:P:548:THR:HG22	4:2:49:GLN:CG	2.27	0.64
1:P:829:TRP:CE3	2:Q:87:LYS:NZ	2.65	0.64
2:Q:140:PHE:HB3	2:Q:144:VAL:CG1	2.28	0.64
1:A:612:GLN:HE22	1:A:627:GLY:N	1.94	0.64
1:A:768:MLY:HB3	1:A:771:LEU:HD13	1.79	0.64
2:B:117:LEU:CG	2:B:147:ASN:CB	2.76	0.64
1:D:202:SER:CA	1:D:207:LYS:HE3	2.27	0.64
1:D:725:ARG:NE	1:D:737:PHE:HE1	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	0.64
1:G:732:ILE:HG21	1:G:747:LEU:HD11	0.72	0.64
1:J:84:MLY:HH12	1:J:720:PHE:HD1	1.60	0.64
1:J:94:MET:HE1	1:J:101:ALA:HB1	1.79	0.64
1:J:133:PRO:O	1:J:136:ASN:HB2	1.98	0.64
1:J:217:THR:HB	1:J:220:ASP:OD2	1.97	0.64
1:J:296:MLY:HH11	1:J:348:MLY:HH21	1.78	0.64
1:J:505:MLY:CD	1:J:762:HIS:HE1	1.90	0.64
1:M:322:VAL:HB	1:M:325:ILE:CD1	2.26	0.64
1:P:296:MLY:HH11	1:P:348:MLY:HH21	1.78	0.64
1:P:534:SER:C	4:0:351:THR:CA	2.47	0.64
1:P:729:ALA:HB1	3:R:93:VAL:HG21	0.65	0.64
1:P:831:TRP:NE1	2:Q:67:MET:HB3	2.08	0.64
3:R:45:GLU:O	3:R:49:ILE:HG13	1.97	0.64
4:0:245:GLY:N	4:Y:291:LYS:CB	2.60	0.64
4:2:148:THR:HG21	4:4:45:VAL:CG2	2.27	0.64
1:A:133:PRO:O	1:A:136:ASN:HB2	1.98	0.64
1:A:202:SER:CA	1:A:207:LYS:HE3	2.27	0.64
1:A:642:LYS:CD	4:8:340:TRP:CZ3	2.79	0.64
1:D:217:THR:HB	1:D:220:ASP:OD2	1.97	0.64
1:D:795:ARG:HD2	3:F:43:ASN:OD1	1.91	0.64
1:D:800:ARG:HG2	3:F:149:VAL:HG22	1.78	0.64
1:G:783:LEU:HD12	1:G:783:LEU:N	2.13	0.64
1:G:819:ASN:N	2:H:90:GLY:O	2.30	0.64
1:J:49:MLY:HH23	1:J:80:MET:HE3	1.80	0.64
1:J:93:MET:SD	1:J:716:LEU:HB2	2.37	0.64
1:J:95:THR:HA	1:J:713:SER:HB3	1.64	0.64
1:M:806:MET:O	1:M:810:ARG:N	2.29	0.64
4:3:288:ASP:OD2	4:5:203:THR:CB	2.42	0.64
1:A:752:ASP:OD2	1:A:782:MLY:CG	2.46	0.64
1:D:107:MLY:HB3	1:D:686:MET:CE	2.27	0.64
1:G:133:PRO:O	1:G:136:ASN:HB2	1.98	0.64
1:G:218:LEU:CD2	1:G:222:ILE:HG12	2.28	0.64
1:G:530:MET:CA	4:V:354:GLN:CB	2.75	0.64
1:G:538:GLU:HA	4:V:349:LEU:HB3	1.79	0.64
1:G:553:MLY:O	4:X:46:GLY:CA	2.45	0.64
1:G:642:LYS:CA	4:V:21:PHE:O	2.46	0.64
1:G:801:VAL:HG21	3:I:126:LEU:HD21	1.78	0.64
1:J:410:ASN:CG	4:W:334:GLU:C	2.65	0.64
1:J:479:CYS:HB3	1:J:653:PHE:CE2	2.33	0.64
1:J:754:ASP:HB3	1:J:780:ASP:OD2	1.94	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:466:GLY:HA2	1:M:484:ASN:HD21	1.61	0.64
1:P:530:MET:CG	4:0:354:GLN:CG	2.72	0.64
4:1:167:GLU:OE1	4:3:44:MET:HA	1.98	0.64
4:1:287:ILE:HG13	4:3:202:THR:CB	2.26	0.64
4:2:288:ASP:N	4:4:203:THR:CG2	2.56	0.64
1:A:725:ARG:NE	1:A:737:PHE:HE1	1.95	0.64
1:A:823:PHE:HE1	2:B:160:GLY:HA3	1.59	0.64
1:A:823:PHE:CE1	2:B:160:GLY:HA3	2.31	0.64
2:B:140:PHE:HB3	2:B:144:VAL:CG1	2.28	0.64
2:B:144:VAL:HA	2:B:153:ILE:HD11	1.80	0.64
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.64
1:D:727:LEU:CG	1:D:782:MLY:HG3	2.19	0.64
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	0.64
3:F:3:SER:HG	3:F:5:ALA:N	1.96	0.64
1:G:217:THR:HB	1:G:220:ASP:OD2	1.97	0.64
1:G:406:VAL:HG12	1:G:407:GLY:N	2.13	0.64
1:G:642:LYS:CD	4:V:24:ASP:O	2.43	0.64
1:G:806:MET:O	1:G:809:ARG:HB2	1.98	0.64
1:J:710:GLY:HA2	1:J:772:LEU:HD22	0.88	0.64
1:M:753:VAL:CG1	1:M:775:LEU:HD22	2.27	0.64
1:A:636:LYS:O	1:A:637:LYS:CB	2.45	0.64
1:A:830:PRO:HG2	2:B:67:MET:HE1	1.79	0.64
2:B:141:PRO:O	2:B:145:ALA:HB2	1.96	0.64
3:C:49:ILE:HA	3:C:52:ASN:ND2	2.05	0.64
1:D:49:MLY:HH23	1:D:80:MET:HE3	1.80	0.64
1:G:84:MLY:HB3	1:G:723:ARG:CZ	2.27	0.64
1:G:795:ARG:HH21	3:I:116:GLU:CB	2.10	0.64
2:H:117:LEU:HD11	2:H:147:ASN:HB3	1.76	0.64
1:J:538:GLU:HA	4:W:349:LEU:HB3	1.78	0.64
1:J:636:LYS:O	1:J:637:LYS:CB	2.45	0.64
1:J:642:LYS:CA	4:W:21:PHE:O	2.45	0.64
1:J:831:TRP:CZ3	2:K:34:ILE:CD1	2.74	0.64
1:M:612:GLN:HE22	1:M:627:GLY:N	1.95	0.64
1:M:822:SER:O	1:M:825:ASN:HB2	1.97	0.64
1:P:49:MLY:HH23	1:P:80:MET:HE3	1.80	0.64
1:P:218:LEU:CD2	1:P:222:ILE:HG12	2.28	0.64
1:A:541:MET:O	4:8:143:TYR:OH	2.14	0.64
1:A:642:LYS:CA	4:8:21:PHE:O	2.46	0.64
1:D:127:ASN:HD22	1:D:128:PRO:CD	2.11	0.64
1:D:506:GLU:HG3	1:D:764:MLY:HE3	1.78	0.64
1:D:795:ARG:NH2	3:F:116:GLU:OE1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:541:MET:HG2	4:V:345:ILE:O	1.98	0.64
2:H:140:PHE:HB3	2:H:144:VAL:CG1	2.28	0.64
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	0.64
1:J:556:ASP:O	4:Y:48:GLY:N	2.29	0.64
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.64
1:J:806:MET:O	1:J:809:ARG:HB2	1.98	0.64
1:M:84:MLY:HH11	1:M:720:PHE:HD1	1.61	0.64
1:M:217:THR:HB	1:M:220:ASP:OD2	1.97	0.64
1:P:642:LYS:CA	4:0:21:PHE:O	2.45	0.64
4:0:190:MET:SD	4:0:209:VAL:HG11	2.38	0.64
4:8:190:MET:SD	4:8:209:VAL:HG11	2.38	0.64
4:X:287:ILE:HG12	4:Z:201:VAL:N	2.11	0.64
1:D:537:GLU:HB3	1:D:648:THR:HB	1.80	0.64
1:D:795:ARG:CZ	3:F:43:ASN:OD1	2.42	0.64
1:D:799:MET:SD	3:F:32:ASP:CG	2.79	0.64
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.79	0.64
1:G:479:CYS:HB3	1:G:653:PHE:CE2	2.33	0.64
1:G:612:GLN:HE22	1:G:627:GLY:N	1.94	0.64
1:G:784:ALA:O	1:G:788:THR:CB	2.45	0.64
1:G:795:ARG:NE	3:I:116:GLU:CB	2.45	0.64
3:I:45:GLU:O	3:I:49:ILE:HG13	1.97	0.64
1:J:406:VAL:HG12	1:J:407:GLY:N	2.13	0.64
1:J:466:GLY:HA2	1:J:484:ASN:HD21	1.61	0.64
1:J:636:LYS:N	4:W:334:GLU:OE1	2.31	0.64
2:K:140:PHE:HB3	2:K:144:VAL:CG1	2.27	0.64
2:K:144:VAL:HA	2:K:153:ILE:HD11	1.80	0.64
1:M:530:MET:CG	4:Z:354:GLN:CG	2.72	0.64
2:N:146:GLY:O	2:N:147:ASN:CB	2.46	0.64
2:N:146:GLY:O	2:N:147:ASN:HB2	1.96	0.64
1:P:107:MLY:HB3	1:P:686:MET:CE	2.27	0.64
1:P:796:GLY:HA2	3:R:35:ARG:CG	2.28	0.64
4:0:110:LEU:C	4:1:195:GLU:HG3	2.23	0.64
4:Y:190:MET:SD	4:Y:209:VAL:HG11	2.38	0.64
1:A:505:MLY:N	1:A:762:HIS:CD2	2.66	0.64
1:A:732:ILE:HG21	1:A:747:LEU:HD11	0.73	0.64
1:G:84:MLY:HH13	1:G:724:TYR:CE2	2.31	0.64
1:G:148:ARG:HE	1:G:764:MLY:HH21	1.63	0.64
1:G:537:GLU:HB3	1:G:648:THR:HB	1.80	0.64
1:J:577:ALA:O	1:J:578:HIS:CD2	2.51	0.64
1:J:725:ARG:NE	1:J:737:PHE:CE1	2.67	0.64
1:M:541:MET:HG2	4:Z:345:ILE:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:541:MET:CA	4:Z:143:TYR:OH	2.46	0.64
1:M:577:ALA:O	1:M:578:HIS:CD2	2.51	0.64
1:M:724:TYR:HB3	1:M:727:LEU:HD12	1.80	0.64
2:N:132:GLU:O	2:N:136:MET:HG2	1.98	0.64
1:P:406:VAL:HG12	1:P:407:GLY:N	2.13	0.64
1:P:576:GLU:CG	1:P:577:ALA:N	2.44	0.64
1:P:642:LYS:CD	4:0:340:TRP:CZ3	2.79	0.64
1:P:798:LEU:CD1	3:R:126:LEU:HD13	2.19	0.64
4:9:190:MET:SD	4:9:209:VAL:HG11	2.38	0.64
1:A:479:CYS:HB3	1:A:653:PHE:CE2	2.32	0.63
1:A:505:MLY:CD	1:A:741:LYS:HZ3	2.11	0.63
1:A:506:GLU:HB2	1:A:760:PHE:C	2.13	0.63
1:A:538:GLU:HA	4:8:349:LEU:CG	2.27	0.63
1:A:636:LYS:N	4:8:334:GLU:OE1	2.31	0.63
1:A:799:MET:SD	3:C:32:ASP:C	2.80	0.63
1:A:806:MET:O	1:A:809:ARG:HB2	1.98	0.63
1:D:218:LEU:CD2	1:D:222:ILE:HG12	2.28	0.63
1:D:792:ALA:HB2	3:F:42:THR:HG22	0.78	0.63
1:G:215:GLN:CA	1:G:340:ILE:CG2	2.62	0.63
1:G:577:ALA:O	1:G:578:HIS:CD2	2.52	0.63
1:J:642:LYS:CD	4:W:340:TRP:CZ3	2.79	0.63
1:M:818:TYR:C	2:N:90:GLY:HA3	2.23	0.63
2:N:144:VAL:HA	2:N:153:ILE:HD11	1.80	0.63
1:P:127:ASN:HD22	1:P:128:PRO:CD	2.11	0.63
1:P:537:GLU:HG3	4:0:350:SER:O	1.78	0.63
1:P:725:ARG:NE	1:P:737:PHE:CE1	2.66	0.63
4:2:287:ILE:CB	4:4:204:ALA:H	2.11	0.63
4:X:325:MET:CE	4:Z:244:ASP:CG	2.69	0.63
1:A:149:GLN:CA	1:A:719:ASP:OD1	2.46	0.63
2:B:150:TYR:C	2:B:151:LYS:CG	2.48	0.63
1:D:133:PRO:O	1:D:136:ASN:HB2	1.98	0.63
1:D:506:GLU:OE2	1:D:764:MLY:HE3	1.97	0.63
1:D:783:LEU:HD12	1:D:783:LEU:N	2.13	0.63
1:G:728:ASN:ND2	3:I:113:THR:O	2.31	0.63
1:J:817:GLN:CB	2:K:127:ARG:HH11	2.02	0.63
1:M:28:GLN:CB	1:M:723:ARG:NH1	2.02	0.63
1:M:94:MET:O	1:M:713:SER:HA	1.97	0.63
1:M:218:LEU:CD2	1:M:222:ILE:HG12	2.28	0.63
1:M:642:LYS:CA	4:Z:21:PHE:O	2.45	0.63
1:M:783:LEU:HD12	1:M:783:LEU:N	2.13	0.63
1:P:133:PRO:O	1:P:136:ASN:HB2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:480:ILE:HG22	1:P:481:ASN:N	2.12	0.63
1:P:769:ALA:C	1:P:771:LEU:CB	2.70	0.63
2:Q:132:GLU:O	2:Q:136:MET:HG2	1.99	0.63
4:2:190:MET:SD	4:2:209:VAL:HG11	2.38	0.63
4:4:190:MET:SD	4:4:209:VAL:HG11	2.38	0.63
4:Y:257:CYS:HB3	4:Y:258:PRO:HD3	1.81	0.63
1:A:724:TYR:HB3	1:A:727:LEU:HD12	1.80	0.63
2:B:146:GLY:O	2:B:147:ASN:CB	2.46	0.63
1:D:577:ALA:O	1:D:578:HIS:CD2	2.51	0.63
1:D:806:MET:O	1:D:809:ARG:HB2	1.98	0.63
2:E:132:GLU:O	2:E:136:MET:HG2	1.99	0.63
1:G:813:ILE:HG22	2:H:128:PHE:CE1	2.28	0.63
2:K:144:VAL:CG1	2:K:153:ILE:HD13	2.20	0.63
2:N:140:PHE:HB3	2:N:144:VAL:CG1	2.28	0.63
1:P:636:LYS:N	4:0:334:GLU:OE1	2.31	0.63
1:A:530:MET:HA	4:8:354:GLN:CB	2.28	0.63
1:A:577:ALA:O	1:A:578:HIS:CD2	2.51	0.63
1:A:725:ARG:NE	1:A:737:PHE:CE1	2.67	0.63
1:A:791:GLN:CD	3:C:116:GLU:N	2.38	0.63
1:D:797:PHE:CG	3:F:146:ILE:CG2	2.67	0.63
2:E:140:PHE:HB3	2:E:144:VAL:CG1	2.28	0.63
1:J:480:ILE:HG22	1:J:481:ASN:N	2.11	0.63
1:J:732:ILE:CG2	1:J:747:LEU:HD11	1.26	0.63
1:M:34:ALA:CA	1:M:777:GLU:OE2	2.45	0.63
1:M:127:ASN:HD22	1:M:128:PRO:CD	2.11	0.63
1:P:822:SER:O	1:P:825:ASN:HB2	1.97	0.63
4:0:257:CYS:HB3	4:0:258:PRO:HD3	1.81	0.63
1:D:538:GLU:HA	4:9:349:LEU:HB3	1.78	0.63
1:D:724:TYR:HD1	1:D:727:LEU:HD11	1.64	0.63
2:E:146:GLY:O	2:E:147:ASN:CB	2.46	0.63
1:G:636:LYS:O	1:G:637:LYS:CB	2.45	0.63
1:G:821:ARG:NH2	2:H:127:ARG:CG	2.57	0.63
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.63
1:M:107:MLY:HB3	1:M:686:MET:CE	2.27	0.63
1:M:771:LEU:O	1:M:774:LEU:N	2.32	0.63
1:P:278:GLN:CG	1:P:317:GLU:HB2	2.27	0.63
1:P:642:LYS:CD	4:0:24:ASP:O	2.43	0.63
1:P:724:TYR:HB3	1:P:727:LEU:HD12	1.80	0.63
4:W:257:CYS:HB3	4:W:258:PRO:HD3	1.81	0.63
1:A:505:MLY:CD	1:A:741:LYS:NZ	2.61	0.63
1:A:541:MET:HG2	4:8:345:ILE:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:GLU:N	4:V:48:GLY:HA3	1.90	0.63
1:A:724:TYR:HD1	1:A:727:LEU:HD11	1.64	0.63
2:B:121:LEU:HA	2:B:128:PHE:CG	2.34	0.63
1:D:538:GLU:HA	4:9:349:LEU:CG	2.28	0.63
1:D:541:MET:HG2	4:9:345:ILE:O	1.98	0.63
1:D:791:GLN:NE2	3:F:114:LEU:O	2.28	0.63
1:D:831:TRP:CH2	2:E:34:ILE:CG2	2.77	0.63
1:G:792:ALA:HB1	3:I:42:THR:CA	2.12	0.63
1:J:93:MET:SD	1:J:716:LEU:N	2.71	0.63
1:J:141:LEU:H	1:J:141:LEU:HD12	1.64	0.63
1:J:218:LEU:CD2	1:J:222:ILE:HG12	2.28	0.63
1:J:541:MET:CA	4:W:143:TYR:OH	2.46	0.63
1:J:756:THR:CG2	1:J:776:GLU:HB3	2.28	0.63
1:J:831:TRP:CZ2	2:K:47:LEU:HD22	2.34	0.63
2:K:132:GLU:O	2:K:136:MET:HG2	1.99	0.63
1:M:479:CYS:HB3	1:M:653:PHE:CE2	2.33	0.63
1:M:725:ARG:NE	1:M:737:PHE:CE1	2.66	0.63
2:N:117:LEU:CG	2:N:147:ASN:CB	2.76	0.63
1:P:94:MET:HE1	1:P:101:ALA:HB1	1.79	0.63
1:P:479:CYS:HB3	1:P:653:PHE:CE2	2.33	0.63
1:P:544:LYS:HZ1	4:2:45:VAL:HG21	1.62	0.63
1:P:577:ALA:O	1:P:578:HIS:CD2	2.51	0.63
1:P:783:LEU:HA	1:P:786:ILE:HG12	1.81	0.63
1:P:783:LEU:HD12	1:P:783:LEU:N	2.13	0.63
1:P:817:GLN:CB	2:Q:127:ARG:HD3	2.22	0.63
4:W:190:MET:SD	4:W:209:VAL:HG11	2.38	0.63
1:A:410:ASN:CG	4:8:334:GLU:C	2.65	0.63
1:A:542:PHE:CZ	1:A:553:MLY:HH11	2.34	0.63
1:A:783:LEU:HD12	1:A:783:LEU:N	2.13	0.63
1:D:411:GLU:N	4:9:333:PRO:HB2	2.11	0.63
1:D:724:TYR:HB3	1:D:727:LEU:HD12	1.80	0.63
1:D:725:ARG:C	1:D:782:MLY:CH2	2.63	0.63
1:J:541:MET:HG2	4:W:345:ILE:O	1.98	0.63
1:M:505:MLY:CD	1:M:762:HIS:NE2	2.48	0.63
1:M:505:MLY:HE3	1:M:762:HIS:HE1	1.63	0.63
1:M:541:MET:O	4:Z:143:TYR:OH	2.13	0.63
1:M:544:LYS:HB2	4:Z:147:ARG:HA	1.80	0.63
1:M:799:MET:SD	3:O:32:ASP:CG	2.81	0.63
1:P:141:LEU:HD12	1:P:141:LEU:H	1.64	0.63
1:P:541:MET:HG2	4:0:345:ILE:O	1.98	0.63
2:Q:150:TYR:C	2:Q:151:LYS:CG	2.48	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:257:CYS:HB3	4:7:258:PRO:HD3	1.81	0.63
4:X:190:MET:SD	4:X:209:VAL:HG11	2.38	0.63
1:A:541:MET:CA	4:8:143:TYR:OH	2.47	0.63
1:A:831:TRP:HH2	2:B:50:THR:OG1	1.82	0.63
1:D:210:GLN:O	1:D:211:SER:OG	2.15	0.63
2:E:117:LEU:HD11	2:E:147:ASN:HB3	1.75	0.63
1:J:107:MLY:HB3	1:J:686:MET:CE	2.27	0.63
1:M:636:LYS:N	4:Z:334:GLU:OE1	2.31	0.63
2:N:121:LEU:HA	2:N:128:PHE:CG	2.34	0.63
1:P:839:MLY:HH13	2:Q:159:HIS:HD2	1.63	0.63
4:2:257:CYS:HB3	4:2:258:PRO:HD3	1.81	0.63
4:4:257:CYS:HB3	4:4:258:PRO:HD3	1.81	0.63
4:9:257:CYS:HB3	4:9:258:PRO:HD3	1.81	0.63
1:A:93:MET:HE3	1:A:715:VAL:HA	1.76	0.63
1:A:127:ASN:HD22	1:A:128:PRO:CD	2.11	0.63
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.63
1:A:800:ARG:CD	3:C:149:VAL:O	2.43	0.63
1:D:793:ARG:NH2	3:F:147:MET:CE	2.36	0.63
1:D:831:TRP:CE2	2:E:51:PHE:CE2	2.86	0.63
2:E:144:VAL:HA	2:E:153:ILE:HD11	1.80	0.63
1:G:202:SER:CA	1:G:207:LYS:HE3	2.28	0.63
1:G:251:ARG:HB2	1:G:264:ASP:CB	2.29	0.63
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.63
1:J:95:THR:CA	1:J:713:SER:HB3	2.28	0.63
1:J:537:GLU:HB3	1:J:648:THR:HB	1.80	0.63
1:J:795:ARG:HB3	3:L:35:ARG:HH12	0.82	0.63
1:J:817:GLN:CB	2:K:127:ARG:CD	2.77	0.63
3:L:49:ILE:HA	3:L:52:ASN:ND2	2.06	0.63
1:M:93:MET:HE1	1:M:716:LEU:HD12	1.81	0.63
1:M:141:LEU:H	1:M:141:LEU:HD12	1.64	0.63
1:P:541:MET:CA	4:0:143:TYR:OH	2.46	0.63
1:P:548:THR:HG22	4:2:49:GLN:CA	2.15	0.63
4:5:257:CYS:HB3	4:5:258:PRO:HD3	1.81	0.63
4:X:286:ASP:CG	4:Z:203:THR:HG22	2.24	0.63
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.62
2:B:132:GLU:O	2:B:136:MET:HG2	1.99	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:G:141:LEU:H	1:G:141:LEU:HD12	1.64	0.62
1:G:541:MET:CA	4:V:143:TYR:OH	2.47	0.62
1:G:725:ARG:NE	1:G:737:PHE:CE1	2.67	0.62
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:251:ARG:HB2	1:J:264:ASP:CB	2.29	0.62
1:J:278:GLN:CG	1:J:317:GLU:HB2	2.27	0.62
1:J:819:ASN:HD21	2:K:92:ASP:CB	2.06	0.62
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.62
2:K:146:GLY:O	2:K:147:ASN:CB	2.46	0.62
1:M:542:PHE:N	4:Z:143:TYR:OH	2.32	0.62
1:M:799:MET:SD	3:O:32:ASP:CB	2.85	0.62
1:M:829:TRP:CH2	2:N:83:MET:HE3	2.33	0.62
1:P:410:ASN:CG	4:0:334:GLU:C	2.65	0.62
1:P:544:LYS:HB2	4:0:147:ARG:HA	1.80	0.62
2:Q:146:GLY:O	2:Q:147:ASN:CB	2.46	0.62
3:R:24:LYS:HB3	3:R:63:ILE:H	1.64	0.62
1:A:302:MET:HG2	1:A:303:LEU:CD1	2.30	0.62
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	0.62
1:A:551:MLY:C	4:V:46:GLY:O	2.47	0.62
1:A:800:ARG:O	3:C:149:VAL:HG21	1.91	0.62
1:D:725:ARG:NE	1:D:737:PHE:CE1	2.67	0.62
1:D:813:ILE:CG2	2:E:128:PHE:HE1	1.98	0.62
1:G:636:LYS:N	4:V:334:GLU:OE1	2.31	0.62
1:G:818:TYR:CZ	2:H:127:ARG:NH1	2.67	0.62
2:H:144:VAL:HA	2:H:153:ILE:HD11	1.80	0.62
2:H:146:GLY:O	2:H:147:ASN:CB	2.46	0.62
1:J:278:GLN:HG3	1:J:318:GLY:N	2.15	0.62
1:J:544:LYS:HB2	4:W:147:ARG:HA	1.80	0.62
1:J:724:TYR:HB3	1:J:727:LEU:HD12	1.80	0.62
1:M:537:GLU:HB3	1:M:648:THR:HB	1.80	0.62
3:O:49:ILE:HA	3:O:52:ASN:ND2	2.06	0.62
1:P:251:ARG:HB2	1:P:264:ASP:CB	2.29	0.62
1:P:578:HIS:CB	1:P:592:ILE:HD12	2.30	0.62
4:1:190:MET:SD	4:1:209:VAL:HG11	2.38	0.62
4:2:322:PRO:CB	4:4:244:ASP:HB2	2.26	0.62
4:5:190:MET:SD	4:5:209:VAL:HG11	2.38	0.62
4:7:190:MET:SD	4:7:209:VAL:HG11	2.38	0.62
4:Z:190:MET:SD	4:Z:209:VAL:HG11	2.38	0.62
1:A:542:PHE:N	4:8:143:TYR:OH	2.33	0.62
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.30	0.62
3:C:3:SER:HG	3:C:5:ALA:N	1.97	0.62
1:D:713:SER:HB3	1:D:772:LEU:HD12	1.79	0.62
1:D:755:HIS:HA	1:D:758:TYR:HE1	1.65	0.62
3:F:24:LYS:HB3	3:F:63:ILE:H	1.64	0.62
1:G:771:LEU:O	1:G:774:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:CE	1:J:647:GLN:CB	2.75	0.62
1:M:804:ARG:O	1:M:808:GLU:CB	2.47	0.62
1:P:278:GLN:HG3	1:P:318:GLY:N	2.15	0.62
1:P:537:GLU:HB3	1:P:648:THR:HB	1.80	0.62
1:P:819:ASN:OD1	2:Q:92:ASP:HB2	1.93	0.62
4:V:190:MET:SD	4:V:209:VAL:HG11	2.38	0.62
1:A:505:MLY:HB3	1:A:762:HIS:H	1.65	0.62
1:A:797:PHE:HE1	3:C:146:ILE:CA	1.92	0.62
1:D:278:GLN:CG	1:D:317:GLU:HB2	2.27	0.62
1:G:580:SER:HA	1:G:588:VAL:O	2.00	0.62
1:J:538:GLU:HA	4:W:349:LEU:CG	2.28	0.62
1:J:757:GLN:N	1:J:776:GLU:HB3	2.14	0.62
2:K:121:LEU:HA	2:K:128:PHE:CG	2.34	0.62
1:M:35:MLY:HH23	1:M:778:MET:CG	2.21	0.62
1:M:94:MET:O	1:M:713:SER:CA	2.46	0.62
1:M:98:HIS:HB3	1:M:100:PRO:CD	2.25	0.62
1:M:724:TYR:HD1	1:M:727:LEU:HD11	1.64	0.62
1:P:771:LEU:O	1:P:774:LEU:N	2.32	0.62
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	0.62
1:A:49:MLY:HH23	1:A:80:MET:HE3	1.79	0.62
1:A:543:PRO:HG2	4:8:143:TYR:O	1.98	0.62
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.62
1:A:791:GLN:NE2	3:C:115:GLY:CA	2.51	0.62
1:D:251:ARG:HB2	1:D:264:ASP:CB	2.29	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:642:LYS:CA	4:9:21:PHE:O	2.46	0.62
1:D:831:TRP:CG	2:E:51:PHE:CZ	2.85	0.62
2:E:114:LYS:HG3	2:E:146:GLY:HA2	1.82	0.62
1:G:49:MLY:HH23	1:G:80:MET:HE3	1.80	0.62
1:G:544:LYS:HB2	4:V:147:ARG:HA	1.81	0.62
1:J:724:TYR:HD1	1:J:727:LEU:HD11	1.64	0.62
1:J:756:THR:CG2	1:J:776:GLU:O	2.27	0.62
1:J:771:LEU:O	1:J:774:LEU:N	2.32	0.62
1:M:278:GLN:HG3	1:M:318:GLY:N	2.15	0.62
1:M:797:PHE:HD1	3:O:149:VAL:HG13	1.60	0.62
1:P:506:GLU:CD	1:P:760:PHE:N	2.50	0.62
4:8:257:CYS:HB3	4:8:258:PRO:HD3	1.81	0.62
1:A:520:ALA:O	1:A:524:GLU:HG2	2.00	0.62
1:A:537:GLU:HB3	1:A:648:THR:HB	1.80	0.62
1:D:771:LEU:O	1:D:774:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:121:LEU:HA	2:E:128:PHE:CG	2.34	0.62
1:G:542:PHE:N	4:V:143:TYR:OH	2.33	0.62
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.62
2:H:132:GLU:O	2:H:136:MET:HG2	1.99	0.62
1:J:161:ASN:HA	1:J:164:GLN:HE21	1.63	0.62
1:J:580:SER:HA	1:J:588:VAL:O	2.00	0.62
1:M:49:MLY:HH23	1:M:80:MET:HE3	1.80	0.62
3:O:24:LYS:HB3	3:O:63:ILE:H	1.64	0.62
1:P:724:TYR:HD1	1:P:727:LEU:HD11	1.64	0.62
2:Q:112:ILE:C	2:Q:147:ASN:O	2.42	0.62
4:X:361:GLU:HB3	4:X:369:ILE:HG12	1.82	0.62
4:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.62
1:A:107:MLY:HB3	1:A:686:MET:CE	2.26	0.62
1:A:141:LEU:H	1:A:141:LEU:HD12	1.64	0.62
1:A:530:MET:CG	4:8:354:GLN:CG	2.71	0.62
1:A:768:MLY:CB	1:A:771:LEU:CB	2.25	0.62
1:D:161:ASN:HA	1:D:164:GLN:HE21	1.64	0.62
1:D:530:MET:HE1	4:9:355:MET:SD	2.39	0.62
1:D:542:PHE:CB	4:9:143:TYR:HE1	2.13	0.62
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.62
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	0.62
1:G:210:GLN:O	1:G:211:SER:OG	2.15	0.62
1:J:542:PHE:CZ	1:J:553:MLY:HH11	2.34	0.62
1:J:817:GLN:HB3	2:K:127:ARG:HD2	1.76	0.62
1:M:542:PHE:CZ	1:M:553:MLY:HH11	2.34	0.62
1:M:782:MLY:O	1:M:786:ILE:CD1	2.48	0.62
1:P:173:GLN:C	1:P:667:THR:HG23	2.25	0.62
1:P:580:SER:HA	1:P:588:VAL:O	2.00	0.62
2:Q:121:LEU:HA	2:Q:128:PHE:CG	2.34	0.62
3:R:49:ILE:CA	3:R:52:ASN:ND2	2.53	0.62
4:V:257:CYS:HB3	4:V:258:PRO:HD3	1.81	0.62
1:A:98:HIS:HB3	1:A:100:PRO:CD	2.25	0.62
1:A:530:MET:HE1	4:8:355:MET:SD	2.39	0.62
1:D:578:HIS:CB	1:D:592:ILE:HD12	2.30	0.62
1:D:724:TYR:CE1	1:D:778:MET:HB3	2.35	0.62
1:G:98:HIS:HB3	1:G:100:PRO:CD	2.25	0.62
1:G:829:TRP:CZ3	2:H:84:PHE:CZ	2.87	0.62
1:J:94:MET:O	1:J:713:SER:CA	2.46	0.62
1:J:756:THR:HG23	1:J:779:ARG:CD	2.30	0.62
2:K:111:SER:OG	2:K:148:VAL:CG1	2.47	0.62
1:M:251:ARG:HB2	1:M:264:ASP:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:406:VAL:HG12	1:M:407:GLY:N	2.13	0.62
1:P:542:PHE:CB	4:0:143:TYR:HE1	2.13	0.62
4:0:288:ASP:HB3	4:2:63:GLY:H	1.62	0.62
4:2:361:GLU:HB3	4:2:369:ILE:HG12	1.82	0.62
4:3:190:MET:SD	4:3:209:VAL:HG11	2.38	0.62
4:8:361:GLU:HB3	4:8:369:ILE:HG12	1.82	0.62
4:W:361:GLU:HB3	4:W:369:ILE:HG12	1.82	0.62
4:Y:361:GLU:HB3	4:Y:369:ILE:HG12	1.82	0.62
1:A:161:ASN:HA	1:A:164:GLN:HE21	1.63	0.62
1:A:707:CYS:SG	1:A:714:ARG:CZ	2.88	0.62
1:A:771:LEU:O	1:A:774:LEU:N	2.32	0.62
1:A:800:ARG:HD3	3:C:149:VAL:C	2.25	0.62
1:D:406:VAL:HG12	1:D:407:GLY:N	2.13	0.62
1:D:520:ALA:O	1:D:524:GLU:HG2	2.00	0.62
1:D:541:MET:SD	4:9:346:LEU:O	2.48	0.62
1:D:544:LYS:HB2	4:9:147:ARG:HA	1.80	0.62
1:D:636:LYS:N	4:9:334:GLU:OE1	2.31	0.62
1:G:127:ASN:HD22	1:G:128:PRO:CD	2.11	0.62
1:G:173:GLN:C	1:G:667:THR:HG23	2.25	0.62
1:G:542:PHE:CZ	1:G:553:MLY:HH11	2.34	0.62
1:G:578:HIS:CB	1:G:592:ILE:HD12	2.30	0.62
1:J:557:GLU:HG3	1:J:557:GLU:O	2.00	0.62
1:J:819:ASN:CG	2:K:92:ASP:HB3	2.14	0.62
1:M:161:ASN:HA	1:M:164:GLN:HE21	1.63	0.62
1:M:302:MET:HG2	1:M:303:LEU:CD1	2.30	0.62
1:M:543:PRO:HG2	4:Z:143:TYR:O	1.98	0.62
1:M:599:ASN:CG	1:M:649:VAL:HB	2.25	0.62
1:M:839:MLY:HH21	2:N:158:THR:HG22	1.82	0.62
1:P:538:GLU:HA	4:0:349:LEU:CG	2.28	0.62
1:P:767:PHE:HB3	1:P:772:LEU:HD22	1.82	0.62
4:0:361:GLU:HB3	4:0:369:ILE:HG12	1.82	0.62
4:3:361:GLU:HB3	4:3:369:ILE:HG12	1.82	0.62
4:9:361:GLU:HB3	4:9:369:ILE:HG12	1.82	0.62
1:A:173:GLN:C	1:A:667:THR:HG23	2.25	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	1.99	0.62
1:A:643:GLY:O	1:A:644:SER:CB	2.48	0.62
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.95	0.62
1:A:797:PHE:CE2	3:C:126:LEU:CD2	2.58	0.62
1:D:278:GLN:HG3	1:D:318:GLY:N	2.15	0.62
1:D:541:MET:CA	4:9:143:TYR:OH	2.47	0.62
1:G:302:MET:HG2	1:G:303:LEU:CD1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:543:PRO:HG2	4:V:143:TYR:O	1.99	0.62
1:G:799:MET:SD	3:I:32:ASP:OD2	2.58	0.62
1:M:154:HIS:CE1	1:M:156:PHE:CD2	2.88	0.62
1:M:508:ILE:HD11	1:M:759:ALA:HB1	1.80	0.62
1:M:797:PHE:CZ	3:O:146:ILE:CD1	2.75	0.62
1:M:798:LEU:HD21	3:O:126:LEU:HD12	1.78	0.62
1:P:161:ASN:HA	1:P:164:GLN:HE21	1.64	0.62
1:P:506:GLU:HG2	1:P:759:ALA:C	2.24	0.62
1:P:707:CYS:SG	1:P:714:ARG:NH2	2.73	0.62
4:1:257:CYS:HB3	4:1:258:PRO:HD3	1.81	0.62
4:1:288:ASP:CB	4:3:203:THR:HG21	2.29	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:X:257:CYS:HB3	4:X:258:PRO:HD3	1.81	0.62
4:Z:257:CYS:HB3	4:Z:258:PRO:HD3	1.81	0.62
1:A:81:ASN:OD1	1:A:96:HIS:HB2	2.00	0.61
1:A:278:GLN:HG3	1:A:318:GLY:N	2.15	0.61
1:A:580:SER:HA	1:A:588:VAL:O	2.00	0.61
1:D:302:MET:HG2	1:D:303:LEU:CD1	2.30	0.61
1:G:557:GLU:HB2	4:X:47:MET:N	2.11	0.61
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	0.61
1:J:538:GLU:CG	4:W:351:THR:C	2.73	0.61
1:J:542:PHE:CB	4:W:143:TYR:HE1	2.13	0.61
1:M:520:ALA:O	1:M:524:GLU:HG2	2.00	0.61
1:M:730:SER:HB2	3:O:96:LYS:HB3	1.82	0.61
1:M:795:ARG:HE	3:O:118:MET:CE	2.12	0.61
1:P:274:ARG:HB2	1:P:285:TYR:CE2	2.34	0.61
1:P:502:GLU:CD	1:P:761:GLY:HA3	2.24	0.61
2:Q:114:LYS:HG3	2:Q:146:GLY:HA2	1.82	0.61
2:Q:144:VAL:HA	2:Q:153:ILE:HD11	1.80	0.61
3:R:50:LEU:O	3:R:53:PRO:HD2	2.00	0.61
4:X:324:THR:HG21	4:Z:247:VAL:CA	2.22	0.61
1:A:99:GLU:OE2	1:A:696:ARG:NH2	2.31	0.61
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.61
1:A:579:PHE:CE1	1:A:581:LEU:HD13	2.35	0.61
3:C:24:LYS:HB3	3:C:63:ILE:H	1.64	0.61
1:G:274:ARG:HB2	1:G:285:TYR:CE2	2.34	0.61
1:G:278:GLN:HG3	1:G:318:GLY:N	2.15	0.61
1:J:411:GLU:N	4:W:333:PRO:HB2	2.11	0.61
1:J:800:ARG:CD	3:L:149:VAL:C	2.72	0.61
2:K:114:LYS:HG3	2:K:146:GLY:HA2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:173:GLN:C	1:M:667:THR:HG23	2.25	0.61
1:M:578:HIS:CB	1:M:592:ILE:HD12	2.30	0.61
1:M:580:SER:HA	1:M:588:VAL:O	2.00	0.61
2:Q:111:SER:OG	2:Q:148:VAL:CG1	2.47	0.61
4:1:287:ILE:HD13	4:3:203:THR:N	2.13	0.61
4:X:291:LYS:CE	4:Z:243:PRO:HB2	2.30	0.61
1:A:798:LEU:CG	3:C:126:LEU:HD11	2.29	0.61
1:D:599:ASN:CG	1:D:649:VAL:HB	2.25	0.61
1:D:708:ARG:O	1:D:710:GLY:N	2.33	0.61
2:E:111:SER:OG	2:E:148:VAL:CG1	2.47	0.61
1:G:148:ARG:HH21	1:G:764:MLY:CH2	2.12	0.61
1:G:829:TRP:CH2	2:H:87:LYS:CE	2.83	0.61
2:H:144:VAL:CG1	2:H:153:ILE:HD13	2.20	0.61
1:J:99:GLU:OE2	1:J:696:ARG:NH2	2.30	0.61
1:J:530:MET:CG	4:W:354:GLN:CG	2.72	0.61
1:M:640:LYS:C	4:Z:23:GLY:CA	2.64	0.61
1:P:302:MET:HG2	1:P:303:LEU:CD1	2.30	0.61
1:P:795:ARG:CZ	3:R:116:GLU:CB	2.57	0.61
1:A:278:GLN:CG	1:A:317:GLU:HB2	2.27	0.61
1:A:795:ARG:NH2	3:C:116:GLU:OE1	2.29	0.61
1:A:798:LEU:HD21	3:C:126:LEU:HD11	1.82	0.61
1:D:507:GLY:CA	1:D:762:HIS:ND1	2.63	0.61
1:D:543:PRO:HG2	4:9:143:TYR:O	1.98	0.61
1:D:576:GLU:CG	1:D:577:ALA:N	2.44	0.61
1:G:81:ASN:OD1	1:G:96:HIS:HB2	2.00	0.61
1:G:530:MET:HE1	4:V:355:MET:SD	2.41	0.61
1:G:579:PHE:CE1	1:G:581:LEU:HD13	2.35	0.61
1:G:643:GLY:O	1:G:644:SER:CB	2.48	0.61
3:I:24:LYS:HB3	3:I:63:ILE:H	1.64	0.61
1:J:813:ILE:O	1:J:817:GLN:N	2.30	0.61
1:M:81:ASN:OD1	1:M:96:HIS:HB2	2.00	0.61
1:M:551:MLY:O	4:1:48:GLY:CA	2.46	0.61
1:M:623:PHE:CG	1:M:623:PHE:HA	2.35	0.61
1:M:793:ARG:HH11	3:O:40:ASN:HD22	0.63	0.61
3:O:52:ASN:N	3:O:53:PRO:HD2	2.15	0.61
1:P:154:HIS:CE1	1:P:156:PHE:CD2	2.88	0.61
1:P:542:PHE:CZ	1:P:553:MLY:HH11	2.34	0.61
4:9:190:MET:HE1	4:9:206:ARG:HA	1.83	0.61
4:Z:190:MET:HE1	4:Z:206:ARG:HA	1.83	0.61
1:A:686:MET:HG3	1:A:691:VAL:HG21	1.83	0.61
2:B:111:SER:OG	2:B:148:VAL:CG1	2.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.61
1:D:202:SER:HA	1:D:207:LYS:HE3	1.72	0.61
1:D:274:ARG:HB2	1:D:285:TYR:CE2	2.34	0.61
1:D:557:GLU:HG3	1:D:557:GLU:O	2.00	0.61
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.61
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.61
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.63	0.61
1:G:278:GLN:CG	1:G:317:GLU:HB2	2.26	0.61
1:G:553:MLY:HB2	4:X:46:GLY:HA3	1.83	0.61
1:G:724:TYR:HB3	1:G:727:LEU:HD12	1.80	0.61
1:G:797:PHE:CZ	3:I:146:ILE:HD11	2.25	0.61
1:J:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:J:732:ILE:HG22	1:J:747:LEU:CD1	1.55	0.61
1:M:99:GLU:OE2	1:M:696:ARG:NH2	2.30	0.61
1:M:274:ARG:HB2	1:M:285:TYR:CE2	2.34	0.61
1:M:797:PHE:CE2	3:O:126:LEU:CD2	2.82	0.61
2:Q:34:ILE:O	2:Q:46:ASP:HB3	2.01	0.61
4:4:361:GLU:HB3	4:4:369:ILE:HG12	1.82	0.61
4:5:190:MET:HE1	4:5:206:ARG:HA	1.83	0.61
4:5:361:GLU:HB3	4:5:369:ILE:HG12	1.82	0.61
4:V:286:ASP:OD2	4:X:203:THR:CG2	2.47	0.61
1:A:149:GLN:HB2	1:A:718:ALA:HB3	0.96	0.61
1:A:797:PHE:CD1	3:C:146:ILE:C	2.77	0.61
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	0.61
1:D:553:MLY:O	4:W:48:GLY:HA2	1.99	0.61
2:H:114:LYS:HG3	2:H:146:GLY:HA2	1.82	0.61
3:I:50:LEU:O	3:I:53:PRO:HD2	2.00	0.61
3:I:52:ASN:N	3:I:53:PRO:HD2	2.16	0.61
1:J:302:MET:HG2	1:J:303:LEU:CD1	2.30	0.61
1:J:579:PHE:CE1	1:J:581:LEU:HD13	2.35	0.61
1:J:623:PHE:CG	1:J:623:PHE:HA	2.35	0.61
1:J:642:LYS:CD	4:W:24:ASP:O	2.43	0.61
1:J:643:GLY:O	1:J:644:SER:CB	2.49	0.61
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.82	0.61
1:J:834:LEU:HD13	2:K:51:PHE:HE1	1.62	0.61
3:L:24:LYS:HB3	3:L:63:ILE:H	1.64	0.61
3:L:50:LEU:O	3:L:53:PRO:HD2	2.00	0.61
3:O:63:ILE:HG22	3:O:64:THR:O	2.01	0.61
1:P:81:ASN:OD1	1:P:96:HIS:HB2	2.00	0.61
3:R:52:ASN:N	3:R:53:PRO:HD2	2.16	0.61
4:3:190:MET:HE1	4:3:206:ARG:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:599:ASN:CG	1:A:649:VAL:HB	2.25	0.61
2:B:112:ILE:C	2:B:147:ASN:O	2.42	0.61
1:D:538:GLU:CG	4:9:351:THR:C	2.74	0.61
3:F:63:ILE:HG22	3:F:64:THR:O	2.01	0.61
1:G:797:PHE:HE2	3:I:126:LEU:HD13	1.66	0.61
3:I:63:ILE:HG22	3:I:64:THR:O	2.01	0.61
1:J:274:ARG:HB2	1:J:285:TYR:CE2	2.34	0.61
1:J:530:MET:HE1	4:W:355:MET:SD	2.40	0.61
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.61
3:L:52:ASN:N	3:L:53:PRO:HD2	2.15	0.61
1:M:557:GLU:HG3	1:M:557:GLU:O	2.00	0.61
1:M:817:GLN:CG	2:N:127:ARG:HB2	2.28	0.61
1:P:40:VAL:HG22	1:P:41:VAL:N	2.16	0.61
1:P:411:GLU:N	4:0:333:PRO:HB2	2.11	0.61
1:P:643:GLY:O	1:P:644:SER:CB	2.48	0.61
1:P:686:MET:HG3	1:P:691:VAL:HG21	1.83	0.61
4:8:190:MET:HE1	4:8:206:ARG:HA	1.83	0.61
1:A:542:PHE:CB	4:8:143:TYR:HE1	2.13	0.61
2:B:140:PHE:O	2:B:141:PRO:C	2.33	0.61
1:D:798:LEU:CD2	3:F:122:GLU:HB3	2.31	0.61
1:D:834:LEU:HD21	2:E:54:MET:HE2	1.72	0.61
1:G:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.61
2:H:112:ILE:C	2:H:147:ASN:O	2.42	0.61
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	0.61
1:M:202:SER:CA	1:M:207:LYS:HE3	2.27	0.61
1:M:556:ASP:CG	4:1:49:GLN:OE1	2.44	0.61
1:M:579:PHE:CE1	1:M:581:LEU:HD13	2.35	0.61
1:M:686:MET:HG3	1:M:691:VAL:HG21	1.83	0.61
2:N:34:ILE:O	2:N:46:ASP:HB3	2.01	0.61
2:N:111:SER:OG	2:N:148:VAL:CG1	2.47	0.61
2:N:114:LYS:HG3	2:N:146:GLY:HA2	1.82	0.61
1:P:93:MET:HE2	1:P:764:MLY:HD3	1.83	0.61
1:P:520:ALA:O	1:P:524:GLU:HG2	2.00	0.61
1:P:623:PHE:CG	1:P:623:PHE:HA	2.35	0.61
1:P:803:TYR:CE2	3:R:17:PHE:CZ	2.88	0.61
4:0:190:MET:HE1	4:0:206:ARG:HA	1.83	0.61
4:1:244:ASP:N	4:Z:324:THR:HG21	1.80	0.61
4:Y:190:MET:HE1	4:Y:206:ARG:HA	1.83	0.61
1:A:799:MET:SD	3:C:32:ASP:O	2.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:817:GLN:CD	2:B:127:ARG:HE	1.99	0.61
3:C:52:ASN:N	3:C:53:PRO:HD2	2.15	0.61
1:D:154:HIS:CE1	1:D:156:PHE:CD2	2.88	0.61
1:D:508:ILE:HD12	1:D:766:PHE:CZ	2.17	0.61
1:G:94:MET:O	1:G:713:SER:CA	2.49	0.61
1:G:524:GLU:O	1:G:528:MLY:HB3	2.01	0.61
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.61
1:G:686:MET:HG3	1:G:691:VAL:HG21	1.83	0.61
1:G:792:ALA:HB1	3:I:41:PRO:C	2.24	0.61
1:J:154:HIS:CE1	1:J:156:PHE:CD2	2.88	0.61
1:J:524:GLU:O	1:J:528:MLY:HB3	2.01	0.61
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.61
1:J:640:LYS:C	4:W:23:GLY:CA	2.64	0.61
1:M:530:MET:HE1	4:Z:355:MET:SD	2.40	0.61
1:M:805:ALA:O	1:M:809:ARG:HB2	1.99	0.61
1:P:524:GLU:O	1:P:528:MLY:HB3	2.01	0.61
1:P:530:MET:HA	4:0:354:GLN:CD	2.11	0.61
1:P:579:PHE:CE1	1:P:581:LEU:HD13	2.35	0.61
4:1:190:MET:HE1	4:1:206:ARG:HA	1.83	0.61
4:X:190:MET:HE1	4:X:206:ARG:HA	1.83	0.61
1:A:95:THR:HB	1:A:772:LEU:HD22	1.83	0.61
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.61
2:B:114:LYS:HG3	2:B:146:GLY:HA2	1.82	0.61
1:D:173:GLN:C	1:D:667:THR:HG23	2.25	0.61
1:D:579:PHE:CE1	1:D:581:LEU:HD13	2.35	0.61
1:D:727:LEU:HB2	1:D:782:MLY:HH13	0.61	0.61
2:E:144:VAL:CG1	2:E:153:ILE:HD13	2.19	0.61
1:G:730:SER:OG	3:I:113:THR:CB	2.48	0.61
1:J:686:MET:HG3	1:J:691:VAL:HG21	1.83	0.61
4:2:190:MET:HE1	4:2:206:ARG:HA	1.83	0.61
4:4:223:PHE:HD2	4:4:312:ARG:NH2	1.99	0.61
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.61
4:V:190:MET:HE1	4:V:206:ARG:HA	1.83	0.61
1:A:40:VAL:HG22	1:A:41:VAL:N	2.16	0.60
1:A:553:MLY:NZ	4:V:45:VAL:HG13	2.16	0.60
3:C:50:LEU:O	3:C:53:PRO:HD2	2.00	0.60
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.60
1:D:578:HIS:CD2	1:D:591:ASN:HA	2.31	0.60
3:F:50:LEU:O	3:F:53:PRO:HD2	2.00	0.60
1:G:640:LYS:C	1:G:645:SER:OG	2.44	0.60
1:G:724:TYR:HD1	1:G:727:LEU:HD11	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:769:ALA:O	1:G:773:GLY:HA2	2.01	0.60
1:M:93:MET:CE	1:M:764:MLY:HD2	2.29	0.60
1:M:578:HIS:CD2	1:M:591:ASN:HA	2.31	0.60
1:M:640:LYS:C	1:M:645:SER:OG	2.44	0.60
1:P:735:GLY:O	1:P:743:ALA:HA	1.94	0.60
4:9:223:PHE:HD2	4:9:312:ARG:NH2	1.99	0.60
1:A:156:PHE:CD1	1:A:195:TYR:CD1	2.89	0.60
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.60
1:A:736:GLN:HA	1:A:743:ALA:HB1	1.27	0.60
1:D:81:ASN:OD1	1:D:96:HIS:HB2	2.00	0.60
1:D:643:GLY:O	1:D:644:SER:CB	2.48	0.60
1:D:813:ILE:O	1:D:817:GLN:N	2.30	0.60
1:G:795:ARG:NE	3:I:116:GLU:OE2	2.33	0.60
1:J:553:MLY:HE3	4:Y:45:VAL:HG12	1.80	0.60
2:K:130:PRO:HA	2:K:133:ILE:HD12	1.83	0.60
1:M:643:GLY:O	1:M:644:SER:CB	2.49	0.60
1:M:834:LEU:CD1	2:N:51:PHE:CD1	2.83	0.60
1:P:542:PHE:N	4:0:143:TYR:OH	2.33	0.60
1:P:599:ASN:CG	1:P:649:VAL:HB	2.25	0.60
2:Q:130:PRO:HA	2:Q:133:ILE:HD12	1.83	0.60
4:1:361:GLU:HB3	4:1:369:ILE:HG12	1.82	0.60
4:8:223:PHE:HD2	4:8:312:ARG:NH2	2.00	0.60
4:X:223:PHE:HD2	4:X:312:ARG:NH2	1.99	0.60
1:A:837:MLY:O	1:A:840:PRO:HD2	2.02	0.60
1:D:38:VAL:HB	1:D:52:ILE:HD11	1.84	0.60
1:D:124:VAL:CG1	1:D:675:ILE:HD13	2.31	0.60
1:D:623:PHE:CG	1:D:623:PHE:HA	2.36	0.60
1:D:640:LYS:C	1:D:645:SER:OG	2.44	0.60
1:G:40:VAL:HG22	1:G:41:VAL:N	2.16	0.60
1:G:503:TYR:CZ	1:G:711:PHE:HE2	2.07	0.60
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.60
1:G:797:PHE:CE2	3:I:126:LEU:HD13	2.36	0.60
1:J:28:GLN:OE1	1:J:723:ARG:CG	2.49	0.60
1:J:95:THR:HA	1:J:713:SER:HG	1.63	0.60
1:J:95:THR:HG23	1:J:96:HIS:ND1	2.17	0.60
1:J:202:SER:HA	1:J:207:LYS:HE3	1.72	0.60
1:J:530:MET:CG	4:W:354:GLN:HG3	2.30	0.60
1:J:769:ALA:CB	1:J:770:GLY:HA3	2.30	0.60
1:J:797:PHE:CZ	3:L:126:LEU:HD22	2.36	0.60
1:M:542:PHE:CB	4:Z:143:TYR:HE1	2.13	0.60
1:M:550:PHE:CE2	1:M:592:ILE:HG23	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:130:PRO:HA	2:N:133:ILE:HD12	1.83	0.60
1:P:38:VAL:HB	1:P:52:ILE:HD11	1.83	0.60
1:P:530:MET:HE1	4:0:355:MET:SD	2.40	0.60
1:P:640:LYS:C	1:P:645:SER:OG	2.44	0.60
4:0:223:PHE:HD2	4:0:312:ARG:NH2	1.99	0.60
4:0:245:GLY:N	4:Y:291:LYS:HB2	2.16	0.60
4:4:190:MET:HE1	4:4:206:ARG:HA	1.83	0.60
4:Y:223:PHE:HD2	4:Y:312:ARG:NH2	1.99	0.60
1:D:524:GLU:O	1:D:528:MLY:HB3	2.01	0.60
1:D:795:ARG:CD	3:F:43:ASN:CG	2.69	0.60
1:G:124:VAL:CG1	1:G:675:ILE:HD13	2.31	0.60
1:G:623:PHE:CG	1:G:623:PHE:HA	2.36	0.60
1:J:38:VAL:HB	1:J:52:ILE:HD11	1.83	0.60
1:J:520:ALA:O	1:J:524:GLU:HG2	2.00	0.60
1:J:542:PHE:N	4:W:143:TYR:OH	2.33	0.60
1:J:756:THR:C	1:J:776:GLU:CD	2.68	0.60
1:M:40:VAL:HG22	1:M:41:VAL:N	2.16	0.60
1:M:127:ASN:ND2	1:M:128:PRO:HD2	2.16	0.60
1:M:278:GLN:CG	1:M:317:GLU:HB2	2.27	0.60
1:M:768:MLY:O	1:M:770:GLY:N	2.35	0.60
1:M:837:MLY:O	1:M:840:PRO:HD2	2.01	0.60
3:O:3:SER:HG	3:O:5:ALA:N	1.99	0.60
1:P:40:VAL:HG22	1:P:41:VAL:H	1.67	0.60
1:P:544:LYS:NZ	4:2:45:VAL:HG21	2.16	0.60
4:1:223:PHE:HD2	4:1:312:ARG:NH2	1.99	0.60
1:A:38:VAL:HB	1:A:52:ILE:HD11	1.84	0.60
1:A:707:CYS:CB	1:A:714:ARG:NH1	2.64	0.60
1:D:507:GLY:CA	1:D:762:HIS:CD2	2.84	0.60
1:D:732:ILE:HD13	1:D:782:MLY:HH21	1.82	0.60
1:D:837:MLY:O	1:D:840:PRO:HD2	2.02	0.60
1:G:792:ALA:N	3:I:42:THR:HG22	2.16	0.60
1:G:837:MLY:O	1:G:840:PRO:HD2	2.02	0.60
1:J:543:PRO:HG2	4:W:143:TYR:O	1.98	0.60
1:M:124:VAL:CG1	1:M:675:ILE:HD13	2.31	0.60
1:M:156:PHE:CD1	1:M:195:TYR:CD1	2.90	0.60
2:N:112:ILE:C	2:N:147:ASN:O	2.42	0.60
3:O:50:LEU:O	3:O:53:PRO:HD2	2.00	0.60
1:P:95:THR:HG23	1:P:96:HIS:ND1	2.17	0.60
4:2:324:THR:CG2	4:4:243:PRO:O	2.49	0.60
4:V:223:PHE:HD2	4:V:312:ARG:NH2	1.99	0.60
1:A:40:VAL:HG22	1:A:41:VAL:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:VAL:CG1	1:A:675:ILE:HD13	2.31	0.60
1:D:166:MET:HE2	1:D:457:TYR:HB2	1.84	0.60
3:F:52:ASN:N	3:F:53:PRO:HD2	2.16	0.60
1:G:60:VAL:O	1:G:71:THR:HA	2.02	0.60
1:J:81:ASN:OD1	1:J:96:HIS:HB2	2.00	0.60
3:L:63:ILE:HG22	3:L:64:THR:O	2.01	0.60
1:M:38:VAL:HB	1:M:52:ILE:HD11	1.83	0.60
1:M:95:THR:HG23	1:M:96:HIS:ND1	2.17	0.60
1:M:538:GLU:HA	4:Z:349:LEU:CG	2.28	0.60
1:P:60:VAL:O	1:P:71:THR:HA	2.02	0.60
1:P:530:MET:CG	4:0:354:GLN:HG3	2.30	0.60
1:P:829:TRP:CZ3	2:Q:84:PHE:CE1	2.89	0.60
4:7:223:PHE:HD2	4:7:312:ARG:NH2	1.99	0.60
4:9:287:ILE:H	4:9:287:ILE:HD12	1.67	0.60
1:A:60:VAL:O	1:A:71:THR:HA	2.02	0.60
1:A:411:GLU:N	4:8:333:PRO:HB2	2.11	0.60
1:D:40:VAL:HG22	1:D:41:VAL:N	2.16	0.60
1:D:530:MET:HA	4:9:354:GLN:CB	2.29	0.60
1:G:38:VAL:HB	1:G:52:ILE:HD11	1.84	0.60
1:G:542:PHE:CB	4:V:143:TYR:HE1	2.13	0.60
1:J:124:VAL:HG13	1:J:675:ILE:HD13	1.84	0.60
1:J:735:GLY:O	1:J:743:ALA:HA	1.94	0.60
1:M:60:VAL:O	1:M:71:THR:HA	2.02	0.60
1:M:642:LYS:CA	4:Z:22:ALA:C	2.70	0.60
1:M:805:ALA:O	1:M:809:ARG:CA	2.46	0.60
1:M:831:TRP:CZ2	2:N:47:LEU:HD21	2.24	0.60
1:P:557:GLU:HG3	1:P:557:GLU:O	2.00	0.60
1:P:817:GLN:OE1	2:Q:127:ARG:HD2	2.00	0.60
3:R:63:ILE:HG22	3:R:64:THR:O	2.01	0.60
1:A:787:ILE:O	1:A:790:THR:N	2.35	0.60
3:C:63:ILE:HG22	3:C:64:THR:O	2.01	0.60
1:D:124:VAL:HG13	1:D:675:ILE:HD13	1.84	0.60
1:D:553:MLY:NZ	4:W:45:VAL:HG13	2.16	0.60
1:G:156:PHE:CD1	1:G:195:TYR:CD1	2.90	0.60
1:G:538:GLU:CG	4:V:351:THR:C	2.73	0.60
1:G:578:HIS:CD2	1:G:591:ASN:HA	2.31	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:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.60
1:M:524:GLU:O	1:M:528:MLY:HB3	2.01	0.60
1:P:546:THR:HG22	1:P:547:ASP:N	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:287:ILE:HD12	4:7:287:ILE:H	1.67	0.60
1:A:836:PHE:HE1	2:B:159:HIS:CB	2.13	0.60
2:B:34:ILE:O	2:B:46:ASP:HB3	2.01	0.60
1:D:542:PHE:N	4:9:143:TYR:OH	2.33	0.60
1:D:798:LEU:HD12	3:F:126:LEU:CD2	2.20	0.60
1:J:124:VAL:CG1	1:J:675:ILE:HD13	2.32	0.60
1:J:166:MET:HE2	1:J:457:TYR:HB2	1.84	0.60
1:J:567:LYS:NZ	4:Y:92:ASN:ND2	2.36	0.60
1:J:640:LYS:C	1:J:645:SER:OG	2.44	0.60
1:J:829:TRP:HH2	2:K:84:PHE:CE1	2.14	0.60
2:K:34:ILE:O	2:K:46:ASP:HB3	2.01	0.60
1:M:776:GLU:O	1:M:779:ARG:HB3	2.02	0.60
1:P:166:MET:HE2	1:P:457:TYR:HB2	1.84	0.60
1:P:543:PRO:HG2	4:0:143:TYR:O	1.98	0.60
2:Q:117:LEU:HD11	2:Q:147:ASN:HB3	1.76	0.60
1:A:95:THR:HG23	1:A:96:HIS:ND1	2.16	0.60
1:A:542:PHE:CD1	4:8:143:TYR:CE1	2.90	0.60
1:A:546:THR:HG22	1:A:547:ASP:N	2.17	0.60
1:D:49:MLY:HH13	1:D:108:GLU:OE2	2.02	0.60
1:G:536:LEU:HD13	1:G:550:PHE:CE1	2.37	0.60
1:G:546:THR:HG22	1:G:547:ASP:N	2.17	0.60
1:J:834:LEU:HD12	2:K:51:PHE:HE1	1.65	0.60
1:M:818:TYR:CE1	2:N:127:ARG:CZ	2.83	0.60
1:M:839:MLY:HH13	2:N:159:HIS:HD2	1.67	0.60
3:R:3:SER:HG	3:R:5:ALA:N	2.00	0.60
3:R:52:ASN:HB2	3:R:53:PRO:CD	2.28	0.60
1:A:550:PHE:CE2	1:A:592:ILE:HG23	2.37	0.59
1:A:640:LYS:C	4:8:23:GLY:CA	2.64	0.59
1:A:757:GLN:HG3	1:A:771:LEU:CD1	2.25	0.59
1:A:768:MLY:C	1:A:771:LEU:HB2	2.30	0.59
1:G:834:LEU:HD12	2:H:51:PHE:HE1	1.50	0.59
3:I:3:SER:HG	3:I:5:ALA:N	1.99	0.59
1:J:776:GLU:O	1:J:779:ARG:HB3	2.02	0.59
1:M:538:GLU:CG	4:Z:351:THR:C	2.73	0.59
1:P:49:MLY:HH13	1:P:108:GLU:OE2	2.02	0.59
1:P:124:VAL:HG13	1:P:675:ILE:HD13	1.84	0.59
1:P:124:VAL:CG1	1:P:675:ILE:HD13	2.31	0.59
1:P:536:LEU:HD13	1:P:550:PHE:CE1	2.37	0.59
1:P:791:GLN:HE22	3:R:115:GLY:CA	2.01	0.59
4:8:287:ILE:H	4:8:287:ILE:HD12	1.67	0.59
1:A:116:TYR:HB2	1:A:153:PRO:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:623:PHE:CG	1:A:623:PHE:HA	2.36	0.59
1:D:536:LEU:HD13	1:D:550:PHE:CE1	2.37	0.59
1:G:541:MET:SD	4:V:346:LEU:O	2.48	0.59
1:G:550:PHE:CE2	1:G:592:ILE:HG23	2.37	0.59
1:J:202:SER:CA	1:J:207:LYS:HE3	2.27	0.59
1:J:553:MLY:HG3	4:Y:45:VAL:O	2.02	0.59
1:J:756:THR:HG23	1:J:779:ARG:HD2	1.84	0.59
1:J:784:ALA:O	1:J:788:THR:HB	2.02	0.59
1:M:95:THR:N	1:M:713:SER:HB3	2.17	0.59
1:M:542:PHE:CD1	4:Z:143:TYR:CE1	2.91	0.59
1:M:546:THR:HG22	1:M:547:ASP:N	2.17	0.59
1:M:787:ILE:O	1:M:790:THR:N	2.35	0.59
1:P:643:GLY:N	4:0:23:GLY:C	2.55	0.59
1:A:530:MET:CG	4:8:354:GLN:HG3	2.30	0.59
1:A:538:GLU:CG	4:8:351:THR:C	2.74	0.59
1:A:776:GLU:O	1:A:779:ARG:HB3	2.03	0.59
1:D:95:THR:HG23	1:D:96:HIS:ND1	2.17	0.59
1:D:599:ASN:CB	1:D:649:VAL:HB	2.32	0.59
1:D:649:VAL:HA	1:D:649:VAL:HG22	1.80	0.59
1:G:538:GLU:HA	4:V:349:LEU:CG	2.28	0.59
1:G:599:ASN:CB	1:G:649:VAL:HB	2.32	0.59
1:G:789:ALA:HB2	3:I:81:GLN:OE1	2.02	0.59
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.59
2:H:34:ILE:O	2:H:46:ASP:HB3	2.01	0.59
1:P:99:GLU:OE2	1:P:696:ARG:NH2	2.30	0.59
1:P:538:GLU:CG	4:0:351:THR:C	2.73	0.59
1:P:578:HIS:CD2	1:P:591:ASN:HA	2.31	0.59
4:V:286:ASP:OD1	4:X:202:THR:HB	2.02	0.59
1:A:135:TYR:N	1:A:135:TYR:CD1	2.70	0.59
1:A:536:LEU:HD13	1:A:550:PHE:CE1	2.37	0.59
1:A:707:CYS:SG	1:A:714:ARG:CD	2.90	0.59
1:A:797:PHE:CD1	3:C:146:ILE:CA	2.83	0.59
1:D:549:SER:OG	1:D:550:PHE:N	2.36	0.59
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.59
2:E:144:VAL:HG12	2:E:153:ILE:HD11	1.75	0.59
1:G:707:CYS:SG	1:G:714:ARG:NH1	2.75	0.59
1:J:156:PHE:CD1	1:J:195:TYR:CD1	2.90	0.59
1:J:549:SER:OG	1:J:550:PHE:N	2.36	0.59
1:J:553:MLY:CH1	4:Y:45:VAL:HG11	2.32	0.59
1:J:599:ASN:CB	1:J:649:VAL:HB	2.32	0.59
1:M:124:VAL:HG13	1:M:675:ILE:HD13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:135:TYR:N	1:M:135:TYR:CD1	2.69	0.59
1:M:210:GLN:O	1:M:211:SER:OG	2.15	0.59
1:P:550:PHE:CE2	1:P:592:ILE:HG23	2.37	0.59
1:P:787:ILE:O	1:P:790:THR:N	2.35	0.59
1:P:795:ARG:HE	3:R:116:GLU:HB3	1.67	0.59
4:2:287:ILE:H	4:2:287:ILE:HD12	1.67	0.59
4:5:287:ILE:H	4:5:287:ILE:HD12	1.67	0.59
4:Z:223:PHE:HD2	4:Z:312:ARG:NH2	1.99	0.59
1:A:195:TYR:O	1:A:199:ILE:HG23	2.03	0.59
1:A:578:HIS:CD2	1:A:591:ASN:HA	2.31	0.59
1:A:818:TYR:HB3	2:B:90:GLY:H	1.67	0.59
1:D:507:GLY:HA3	1:D:762:HIS:CB	2.33	0.59
1:D:507:GLY:HA2	1:D:762:HIS:ND1	2.16	0.59
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.59
1:G:791:GLN:CD	3:I:116:GLU:H	2.09	0.59
1:J:210:GLN:O	1:J:211:SER:OG	2.15	0.59
1:M:545:ALA:CA	4:1:45:VAL:HG13	2.26	0.59
1:M:831:TRP:CH2	2:N:47:LEU:HD23	2.15	0.59
1:P:542:PHE:CD1	4:0:143:TYR:CE1	2.91	0.59
1:P:642:LYS:CG	4:0:22:ALA:CA	2.80	0.59
1:P:800:ARG:HB3	3:R:149:VAL:CG2	2.32	0.59
1:P:826:VAL:HG21	2:Q:88:LEU:HD23	1.84	0.59
1:D:60:VAL:O	1:D:71:THR:HA	2.02	0.59
1:D:156:PHE:CD1	1:D:195:TYR:CD1	2.90	0.59
1:D:464:ILE:HG22	1:D:465:ALA:N	2.18	0.59
1:D:732:ILE:HG22	1:D:747:LEU:CD1	1.55	0.59
1:D:787:ILE:O	1:D:790:THR:N	2.35	0.59
1:D:827:MLY:HH21	2:E:139:ALA:CB	2.32	0.59
1:D:831:TRP:CD2	2:E:51:PHE:CE1	2.91	0.59
3:F:52:ASN:HB2	3:F:53:PRO:CD	2.28	0.59
3:F:52:ASN:N	3:F:53:PRO:CD	2.65	0.59
1:G:549:SER:OG	1:G:550:PHE:N	2.36	0.59
1:G:795:ARG:CZ	3:I:116:GLU:HB3	2.31	0.59
1:J:49:MLY:HH13	1:J:108:GLU:OE2	2.02	0.59
1:J:265:ILE:HG22	1:J:266:GLU:N	2.18	0.59
1:J:542:PHE:CD1	4:W:143:TYR:CE1	2.91	0.59
1:J:721:LYS:C	1:J:736:GLN:OE1	2.46	0.59
1:M:97:LEU:HD23	1:M:712:PRO:CB	2.18	0.59
1:M:599:ASN:CB	1:M:649:VAL:HB	2.32	0.59
1:P:776:GLU:O	1:P:779:ARG:HB3	2.02	0.59
1:P:817:GLN:CB	2:Q:127:ARG:NH1	2.47	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:130:PRO:HA	2:B:133:ILE:HD12	1.84	0.59
1:G:40:VAL:HG22	1:G:41:VAL:H	1.67	0.59
1:G:97:LEU:CD2	1:G:712:PRO:HB2	2.22	0.59
1:G:530:MET:CG	4:V:354:GLN:HG3	2.30	0.59
1:G:646:PHE:CD2	1:G:652:LEU:CD1	2.85	0.59
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.59
1:J:84:MLY:CH1	1:J:724:TYR:CD2	2.82	0.59
1:J:230:GLU:O	1:J:234:ASN:HB2	2.03	0.59
1:J:530:MET:HA	4:W:354:GLN:CB	2.28	0.59
1:J:536:LEU:HD13	1:J:550:PHE:CE1	2.37	0.59
1:J:550:PHE:CE2	1:J:592:ILE:HG23	2.37	0.59
1:J:787:ILE:O	1:J:790:THR:N	2.35	0.59
1:J:837:MLY:O	1:J:840:PRO:HD2	2.02	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.85	0.59
1:M:195:TYR:O	1:M:199:ILE:HG23	2.03	0.59
1:M:642:LYS:CD	4:Z:340:TRP:CZ3	2.79	0.59
1:P:549:SER:OG	1:P:550:PHE:N	2.36	0.59
1:P:755:HIS:HA	1:P:758:TYR:HE1	1.64	0.59
4:4:287:ILE:H	4:4:287:ILE:HD12	1.67	0.59
1:A:505:MLY:HB3	1:A:762:HIS:HD2	0.43	0.59
1:A:529:PRO:HG3	4:8:353:GLN:OE1	2.03	0.59
1:A:599:ASN:CB	1:A:649:VAL:HB	2.32	0.59
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	0.59
1:A:813:ILE:O	1:A:817:GLN:N	2.30	0.59
1:D:601:ASP:N	1:D:602:PRO:HD3	2.18	0.59
1:G:116:TYR:HB2	1:G:153:PRO:O	2.03	0.59
1:G:708:ARG:HA	1:G:712:PRO:HG3	1.83	0.59
2:H:130:PRO:HA	2:H:133:ILE:HD12	1.84	0.59
3:I:49:ILE:HA	3:I:52:ASN:ND2	2.06	0.59
1:J:552:ASN:O	4:Y:47:MET:HE1	2.03	0.59
1:J:649:VAL:HA	1:J:649:VAL:HG22	1.80	0.59
1:J:755:HIS:HA	1:J:758:TYR:HE1	1.65	0.59
1:M:629:GLU:CB	1:M:643:GLY:C	2.76	0.59
1:M:806:MET:N	1:M:807:VAL:N	2.51	0.59
1:P:116:TYR:HB2	1:P:153:PRO:O	2.03	0.59
1:P:135:TYR:N	1:P:135:TYR:CD1	2.70	0.59
1:P:599:ASN:CB	1:P:649:VAL:HB	2.32	0.59
4:1:287:ILE:HB	4:3:203:THR:CA	2.33	0.59
1:A:149:GLN:HB3	1:A:719:ASP:CA	2.32	0.59
1:A:166:MET:HE2	1:A:457:TYR:HB2	1.84	0.59
1:A:230:GLU:O	1:A:234:ASN:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:HG2	4:8:22:ALA:C	2.27	0.59
1:D:506:GLU:CG	1:D:764:MLY:HE3	2.32	0.59
1:D:508:ILE:HA	1:D:761:GLY:HA3	1.85	0.59
1:G:95:THR:HG23	1:G:96:HIS:ND1	2.17	0.59
1:G:124:VAL:HG13	1:G:675:ILE:HD13	1.84	0.59
1:G:776:GLU:O	1:G:779:ARG:HB3	2.03	0.59
1:J:546:THR:HG22	1:J:547:ASP:N	2.17	0.59
1:M:545:ALA:CB	4:1:45:VAL:HG13	2.32	0.59
3:O:52:ASN:N	3:O:53:PRO:CD	2.65	0.59
1:P:195:TYR:O	1:P:199:ILE:HG23	2.03	0.59
3:R:127:MET:HE2	3:R:137:ILE:HD13	1.85	0.59
1:A:48:VAL:HG22	1:A:49:MLY:N	2.18	0.59
1:A:601:ASP:N	1:A:602:PRO:HD3	2.18	0.59
1:A:643:GLY:N	4:8:23:GLY:C	2.55	0.59
1:A:798:LEU:HD13	3:C:126:LEU:HD11	1.79	0.59
1:D:40:VAL:HG22	1:D:41:VAL:H	1.67	0.59
1:D:542:PHE:CD1	4:9:143:TYR:CE1	2.90	0.59
1:D:715:VAL:HG11	1:D:720:PHE:HD1	1.68	0.59
2:E:130:PRO:HA	2:E:133:ILE:HD12	1.84	0.59
1:G:230:GLU:O	1:G:234:ASN:HB2	2.03	0.59
1:G:629:GLU:CB	1:G:643:GLY:C	2.75	0.59
1:J:798:LEU:HG	3:L:126:LEU:HD11	1.83	0.59
1:M:634:GLY:N	4:Z:25:ASP:O	2.31	0.59
1:M:646:PHE:CD2	1:M:652:LEU:CD1	2.85	0.59
1:M:721:LYS:C	1:M:736:GLN:OE1	2.46	0.59
1:M:753:VAL:HG13	1:M:775:LEU:HD23	1.83	0.59
1:P:156:PHE:CD1	1:P:195:TYR:CD1	2.90	0.59
1:P:538:GLU:O	1:P:541:MET:HB2	2.03	0.59
1:P:642:LYS:HG2	4:0:22:ALA:C	2.27	0.59
1:P:820:VAL:HG13	2:Q:136:MET:HE1	1.82	0.59
1:P:834:LEU:CD1	2:Q:51:PHE:CD1	2.86	0.59
1:A:538:GLU:O	1:A:541:MET:HB2	2.03	0.58
1:A:837:MLY:CH2	2:H:20:ASP:HA	2.30	0.58
1:G:510:TRP:CZ2	1:G:768:MLY:HH11	2.38	0.58
1:G:542:PHE:CD1	4:V:143:TYR:CE1	2.91	0.58
1:G:721:LYS:C	1:G:736:GLN:OE1	2.46	0.58
1:J:195:TYR:O	1:J:199:ILE:HG23	2.03	0.58
1:J:629:GLU:CB	1:J:643:GLY:C	2.76	0.58
1:M:48:VAL:HG22	1:M:49:MLY:N	2.18	0.58
1:M:732:ILE:HG22	1:M:747:LEU:CD1	1.55	0.58
1:M:769:ALA:C	1:M:770:GLY:CA	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:782:MLY:C	1:M:786:ILE:HD11	2.32	0.58
1:P:124:VAL:HG13	1:P:675:ILE:CD1	2.33	0.58
1:P:529:PRO:HG3	4:0:353:GLN:OE1	2.03	0.58
1:P:601:ASP:N	1:P:602:PRO:HD3	2.18	0.58
1:P:629:GLU:CB	1:P:643:GLY:C	2.76	0.58
1:P:806:MET:HA	1:P:809:ARG:HB2	1.85	0.58
4:3:223:PHE:HD2	4:3:312:ARG:NH2	1.99	0.58
4:3:287:ILE:H	4:3:287:ILE:HD12	1.67	0.58
1:A:97:LEU:HD21	1:A:712:PRO:C	2.28	0.58
1:D:127:ASN:ND2	1:D:128:PRO:HD2	2.16	0.58
1:D:135:TYR:N	1:D:135:TYR:CD1	2.70	0.58
1:D:141:LEU:O	1:D:144:ARG:HB3	2.03	0.58
1:D:529:PRO:HG3	4:9:353:GLN:OE1	2.03	0.58
1:D:629:GLU:HB3	1:D:645:SER:N	2.18	0.58
3:F:127:MET:HE2	3:F:137:ILE:HD13	1.85	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	0.58
1:M:124:VAL:HG13	1:M:675:ILE:CD1	2.33	0.58
1:M:141:LEU:O	1:M:144:ARG:HB3	2.03	0.58
1:M:536:LEU:HD13	1:M:550:PHE:CE1	2.37	0.58
1:M:829:TRP:CZ3	2:N:84:PHE:CE1	2.91	0.58
1:P:715:VAL:HG11	1:P:720:PHE:HD1	1.68	0.58
4:0:246:GLN:CG	4:Y:325:MET:HE1	2.33	0.58
1:A:549:SER:OG	1:A:550:PHE:N	2.36	0.58
1:A:557:GLU:HG3	1:A:557:GLU:O	2.00	0.58
1:A:629:GLU:CB	1:A:643:GLY:C	2.75	0.58
1:D:798:LEU:HD21	3:F:122:GLU:HB3	1.85	0.58
1:G:124:VAL:HG13	1:G:675:ILE:CD1	2.33	0.58
1:G:135:TYR:N	1:G:135:TYR:CD1	2.70	0.58
1:G:166:MET:HE2	1:G:457:TYR:HB2	1.84	0.58
1:G:754:ASP:C	1:G:776:GLU:OE1	2.46	0.58
1:G:795:ARG:N	3:I:118:MET:CE	2.65	0.58
3:I:52:ASN:HB2	3:I:53:PRO:CD	2.28	0.58
1:J:127:ASN:ND2	1:J:128:PRO:HD2	2.16	0.58
1:J:135:TYR:N	1:J:135:TYR:CD1	2.69	0.58
1:J:529:PRO:HG3	4:W:353:GLN:OE1	2.04	0.58
1:J:643:GLY:HA2	4:W:24:ASP:OD1	2.04	0.58
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.58
3:L:52:ASN:N	3:L:53:PRO:CD	2.65	0.58
1:M:116:TYR:HB2	1:M:153:PRO:O	2.03	0.58
1:M:166:MET:HE2	1:M:457:TYR:HB2	1.84	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:530:MET:CG	4:Z:354:GLN:HG3	2.30	0.58
1:M:791:GLN:CD	3:O:116:GLU:H	2.11	0.58
1:P:643:GLY:HA2	4:0:24:ASP:OD1	2.04	0.58
1:A:505:MLY:CG	1:A:741:LYS:HZ3	2.14	0.58
1:A:809:ARG:HH12	2:B:124:GLY:HA2	1.67	0.58
1:A:836:PHE:CE1	2:B:159:HIS:CA	2.86	0.58
3:C:46:ILE:O	3:C:50:LEU:CG	2.47	0.58
3:C:102:VAL:HG11	3:C:107:LEU:HB2	1.85	0.58
1:D:218:LEU:N	1:D:221:GLN:HE21	2.01	0.58
1:D:550:PHE:CE2	1:D:592:ILE:HG23	2.37	0.58
1:G:464:ILE:HG22	1:G:465:ALA:N	2.18	0.58
1:G:629:GLU:HB3	1:G:645:SER:N	2.18	0.58
1:G:642:LYS:CG	4:V:22:ALA:CA	2.80	0.58
1:G:818:TYR:CE1	2:H:127:ARG:NH1	2.72	0.58
1:J:116:TYR:HB2	1:J:153:PRO:O	2.03	0.58
1:J:831:TRP:CZ3	2:K:34:ILE:HG21	2.38	0.58
1:M:175:ILE:HA	1:M:670:HIS:O	2.03	0.58
1:M:217:THR:C	1:M:221:GLN:NE2	2.62	0.58
1:M:601:ASP:N	1:M:602:PRO:HD3	2.18	0.58
1:P:107:MLY:CB	1:P:686:MET:HE2	2.32	0.58
1:P:649:VAL:HA	1:P:649:VAL:HG22	1.80	0.58
1:P:797:PHE:CG	3:R:146:ILE:HG23	2.39	0.58
4:1:287:ILE:H	4:1:287:ILE:HD12	1.67	0.58
4:Y:287:ILE:H	4:Y:287:ILE:HD12	1.67	0.58
4:Z:287:ILE:HD12	4:Z:287:ILE:H	1.67	0.58
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.58
1:A:124:VAL:HG13	1:A:675:ILE:HD13	1.84	0.58
1:A:818:TYR:CD2	2:B:89:LYS:O	2.57	0.58
1:D:124:VAL:HG13	1:D:675:ILE:CD1	2.33	0.58
1:D:217:THR:C	1:D:221:GLN:NE2	2.62	0.58
1:D:230:GLU:O	1:D:234:ASN:HB2	2.03	0.58
3:F:46:ILE:O	3:F:50:LEU:CG	2.47	0.58
3:F:102:VAL:HG11	3:F:107:LEU:HB2	1.85	0.58
1:G:99:GLU:OE2	1:G:696:ARG:NH2	2.30	0.58
1:G:787:ILE:O	1:G:790:THR:N	2.35	0.58
1:G:791:GLN:NE2	3:I:115:GLY:C	2.60	0.58
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.58
1:J:715:VAL:HG11	1:J:720:PHE:HD1	1.68	0.58
1:J:817:GLN:CD	2:K:127:ARG:CD	2.65	0.58
3:L:127:MET:HE2	3:L:137:ILE:HD13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:553:MLY:CG	4:1:43:VAL:CG1	2.81	0.58
1:M:553:MLY:HG3	4:1:43:VAL:CG1	2.31	0.58
1:M:629:GLU:HB3	1:M:645:SER:N	2.18	0.58
1:P:141:LEU:O	1:P:144:ARG:HB3	2.04	0.58
1:P:230:GLU:O	1:P:234:ASN:HB2	2.03	0.58
1:P:794:CYS:O	1:P:798:LEU:N	2.37	0.58
3:R:52:ASN:N	3:R:53:PRO:CD	2.65	0.58
4:0:287:ILE:H	4:0:287:ILE:HD12	1.67	0.58
4:2:223:PHE:HD2	4:2:312:ARG:NH2	1.99	0.58
1:A:107:MLY:CB	1:A:686:MET:HE2	2.32	0.58
1:D:48:VAL:HG22	1:D:49:MLY:N	2.18	0.58
1:D:629:GLU:CB	1:D:643:GLY:C	2.75	0.58
1:D:724:TYR:HD1	1:D:782:MLY:HD3	1.61	0.58
1:D:727:LEU:CB	1:D:782:MLY:CE	2.81	0.58
1:D:747:LEU:HD11	1:D:782:MLY:HH22	1.80	0.58
1:G:538:GLU:O	1:G:541:MET:HB2	2.04	0.58
1:G:601:ASP:N	1:G:602:PRO:HD3	2.18	0.58
1:J:40:VAL:HG22	1:J:41:VAL:H	1.67	0.58
1:M:93:MET:HE2	1:M:764:MLY:HD2	1.83	0.58
1:M:529:PRO:HG3	4:Z:353:GLN:OE1	2.03	0.58
1:M:804:ARG:O	1:M:808:GLU:N	2.35	0.58
1:P:418:THR:HG22	1:P:419:VAL:H	1.69	0.58
1:P:629:GLU:HB3	1:P:645:SER:N	2.18	0.58
1:P:721:LYS:C	1:P:736:GLN:OE1	2.46	0.58
1:P:804:ARG:O	1:P:808:GLU:CG	2.51	0.58
1:P:837:MLY:O	1:P:840:PRO:HD2	2.02	0.58
1:A:49:MLY:HH13	1:A:108:GLU:OE2	2.02	0.58
3:C:52:ASN:HB2	3:C:53:PRO:CD	2.28	0.58
3:C:52:ASN:N	3:C:53:PRO:CD	2.65	0.58
1:D:643:GLY:HA2	4:9:24:ASP:OD1	2.04	0.58
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.58
1:G:48:VAL:HG22	1:G:49:MLY:N	2.18	0.58
1:G:64:THR:HG22	1:G:65:GLU:N	2.19	0.58
1:G:831:TRP:HE1	2:H:67:MET:CG	2.17	0.58
1:J:48:VAL:HG22	1:J:49:MLY:N	2.18	0.58
1:J:279:LEU:HB3	1:J:280:PRO:HD2	1.86	0.58
1:J:506:GLU:CG	1:J:760:PHE:O	2.52	0.58
1:J:629:GLU:HB3	1:J:645:SER:N	2.18	0.58
1:M:64:THR:HG22	1:M:65:GLU:N	2.19	0.58
1:M:418:THR:HG22	1:M:419:VAL:H	1.69	0.58
1:M:599:ASN:CG	1:M:649:VAL:H	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:767:PHE:HD1	1:P:772:LEU:HD21	1.59	0.58
4:2:290:ARG:NE	4:4:202:THR:HG21	2.15	0.58
4:W:285:CYS:O	4:Y:202:THR:CG2	2.52	0.58
1:A:141:LEU:O	1:A:144:ARG:HB3	2.03	0.58
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.58
1:A:818:TYR:HD2	2:B:89:LYS:O	1.87	0.58
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.85	0.58
1:D:175:ILE:HA	1:D:670:HIS:O	2.03	0.58
1:D:254:PHE:CE2	1:D:459:ILE:HD12	2.39	0.58
1:D:265:ILE:HG22	1:D:266:GLU:N	2.18	0.58
1:D:538:GLU:O	1:D:541:MET:HB2	2.04	0.58
1:D:676:ILE:HG23	1:D:676:ILE:O	2.03	0.58
1:G:148:ARG:HH21	1:G:764:MLY:HH11	1.67	0.58
1:G:254:PHE:CE2	1:G:459:ILE:HD12	2.39	0.58
1:G:411:GLU:N	4:V:333:PRO:HB2	2.10	0.58
1:G:553:MLY:HH13	4:X:45:VAL:CG1	2.25	0.58
1:G:797:PHE:CE2	3:I:126:LEU:CD1	2.85	0.58
1:J:464:ILE:HG22	1:J:465:ALA:N	2.18	0.58
1:M:40:VAL:HG22	1:M:41:VAL:H	1.67	0.58
1:M:538:GLU:O	1:M:541:MET:HB2	2.03	0.58
1:M:568:PRO:HG3	1:M:578:HIS:H	1.69	0.58
1:P:48:VAL:HG22	1:P:49:MLY:N	2.18	0.58
1:P:175:ILE:HA	1:P:670:HIS:O	2.04	0.58
1:P:548:THR:HG23	4:2:49:GLN:CB	2.03	0.58
1:P:552:ASN:HD22	4:2:49:GLN:CD	2.02	0.58
1:P:646:PHE:CD2	1:P:652:LEU:CD1	2.85	0.58
4:W:286:ASP:OD1	4:Y:203:THR:HG22	2.04	0.58
4:X:325:MET:HE2	4:Z:244:ASP:OD2	1.98	0.58
1:A:64:THR:HG22	1:A:65:GLU:N	2.19	0.58
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	0.58
1:A:541:MET:SD	4:8:346:LEU:O	2.48	0.58
1:D:546:THR:HG22	1:D:547:ASP:N	2.17	0.58
1:D:642:LYS:CA	4:9:22:ALA:C	2.71	0.58
1:G:529:PRO:HG3	4:V:353:GLN:OE1	2.04	0.58
1:G:754:ASP:CG	1:G:779:ARG:CB	2.72	0.58
1:J:107:MLY:CB	1:J:686:MET:HE2	2.32	0.58
1:J:175:ILE:HA	1:J:670:HIS:O	2.03	0.58
1:M:49:MLY:HH13	1:M:108:GLU:OE2	2.02	0.58
1:M:612:GLN:HE22	1:M:627:GLY:HA2	1.66	0.58
1:M:795:ARG:HB2	3:O:35:ARG:NH1	2.19	0.58
1:M:813:ILE:O	1:M:817:GLN:N	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:279:LEU:HB3	1:P:280:PRO:HD2	1.86	0.58
1:P:599:ASN:CG	1:P:649:VAL:H	2.12	0.58
1:A:175:ILE:HA	1:A:670:HIS:O	2.04	0.58
1:A:409:GLY:HA3	4:8:333:PRO:CD	2.34	0.58
1:D:220:ASP:O	1:D:224:SER:N	2.27	0.58
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.58
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.58
1:D:800:ARG:CD	3:F:149:VAL:O	2.52	0.58
1:D:823:PHE:CZ	2:E:156:VAL:HG12	2.38	0.58
1:G:49:MLY:HH13	1:G:108:GLU:OE2	2.02	0.58
1:G:107:MLY:CB	1:G:686:MET:HE2	2.32	0.58
1:G:568:PRO:HG3	1:G:578:HIS:H	1.69	0.58
1:G:795:ARG:CB	3:I:35:ARG:NH2	2.65	0.58
1:G:823:PHE:HE1	2:H:160:GLY:HA2	1.69	0.58
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.85	0.58
1:M:218:LEU:N	1:M:221:GLN:HE21	2.01	0.58
1:M:230:GLU:O	1:M:234:ASN:HB2	2.03	0.58
3:O:102:VAL:HG11	3:O:107:LEU:HB2	1.85	0.58
1:P:64:THR:HG22	1:P:65:GLU:N	2.19	0.58
1:P:127:ASN:ND2	1:P:128:PRO:HD2	2.16	0.58
1:P:640:LYS:C	4:0:23:GLY:CA	2.64	0.58
1:P:732:ILE:HG22	1:P:747:LEU:CD1	1.55	0.58
3:R:49:ILE:HA	3:R:52:ASN:ND2	2.06	0.58
3:R:102:VAL:HG11	3:R:107:LEU:HB2	1.85	0.58
1:D:279:LEU:HB3	1:D:280:PRO:HD2	1.86	0.57
1:D:322:VAL:HG11	1:D:325:ILE:HD11	1.86	0.57
1:D:508:ILE:HD13	1:D:766:PHE:CE2	2.33	0.57
1:D:794:CYS:O	1:D:798:LEU:N	2.36	0.57
2:E:163:ALA:C	2:K:22:THR:H	2.07	0.57
3:I:127:MET:HE2	3:I:137:ILE:HD13	1.85	0.57
1:J:93:MET:HA	1:J:714:ARG:H	1.68	0.57
1:J:599:ASN:CG	1:J:649:VAL:H	2.12	0.57
1:J:676:ILE:HG23	1:J:676:ILE:O	2.03	0.57
1:J:829:TRP:HZ3	2:K:84:PHE:CD2	2.20	0.57
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.57
1:M:279:LEU:HB3	1:M:280:PRO:HD2	1.86	0.57
1:M:642:LYS:HG2	4:Z:22:ALA:C	2.27	0.57
1:M:797:PHE:HE1	3:O:149:VAL:HG12	1.64	0.57
1:P:7:MET:HE3	1:P:14:ALA:HB1	1.85	0.57
2:Q:117:LEU:CG	2:Q:147:ASN:CB	2.76	0.57
2:Q:144:VAL:CG1	2:Q:153:ILE:HD13	2.20	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	2.63	0.57
1:A:418:THR:HG22	1:A:419:VAL:H	1.69	0.57
1:A:539:GLU:OE2	4:V:45:VAL:C	2.47	0.57
1:A:629:GLU:HB3	1:A:645:SER:N	2.18	0.57
1:D:507:GLY:HA3	1:D:762:HIS:CD2	2.36	0.57
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.57
1:D:776:GLU:O	1:D:779:ARG:HB3	2.03	0.57
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	0.57
1:G:792:ALA:H	3:I:42:THR:HG22	1.68	0.57
1:J:64:THR:HG22	1:J:65:GLU:N	2.19	0.57
1:J:124:VAL:HG13	1:J:675:ILE:CD1	2.33	0.57
1:J:141:LEU:O	1:J:144:ARG:HB3	2.03	0.57
1:J:254:PHE:CE2	1:J:459:ILE:HD12	2.39	0.57
1:J:538:GLU:O	1:J:541:MET:HB2	2.03	0.57
1:J:795:ARG:HD2	3:L:35:ARG:HH12	1.67	0.57
1:P:634:GLY:N	4:0:25:ASP:O	2.31	0.57
1:P:727:LEU:HD21	1:P:779:ARG:HE	1.68	0.57
1:P:747:LEU:O	1:P:747:LEU:HD23	2.04	0.57
4:0:110:LEU:O	4:1:195:GLU:HG3	2.04	0.57
1:A:254:PHE:CE2	1:A:459:ILE:HD12	2.39	0.57
1:A:707:CYS:CB	1:A:714:ARG:CZ	2.66	0.57
1:D:64:THR:HG22	1:D:65:GLU:N	2.19	0.57
1:D:107:MLY:CB	1:D:686:MET:HE2	2.32	0.57
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	0.57
1:D:809:ARG:NH2	2:E:120:LEU:HD11	2.19	0.57
1:G:141:LEU:O	1:G:144:ARG:HB3	2.03	0.57
1:G:148:ARG:NH2	1:G:764:MLY:CH1	2.66	0.57
1:G:769:ALA:HB3	1:G:770:GLY:N	2.10	0.57
1:G:795:ARG:HB3	3:I:35:ARG:HH12	1.64	0.57
1:M:254:PHE:CE2	1:M:459:ILE:HD12	2.39	0.57
1:M:409:GLY:HA3	4:Z:333:PRO:CD	2.35	0.57
1:M:642:LYS:CG	4:Z:22:ALA:CA	2.80	0.57
1:M:735:GLY:O	1:M:743:ALA:HA	1.94	0.57
1:M:797:PHE:CE2	3:O:146:ILE:HD13	2.28	0.57
3:O:127:MET:HE2	3:O:137:ILE:HD13	1.85	0.57
1:P:265:ILE:HG22	1:P:266:GLU:N	2.18	0.57
1:P:676:ILE:O	1:P:676:ILE:HG23	2.03	0.57
1:P:707:CYS:SG	1:P:714:ARG:CZ	2.93	0.57
1:P:813:ILE:O	1:P:817:GLN:N	2.30	0.57
1:A:279:LEU:HB3	1:A:280:PRO:HD2	1.86	0.57
1:A:464:ILE:HG22	1:A:465:ALA:N	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:MET:HG2	4:8:345:ILE:CG2	2.35	0.57
1:A:676:ILE:HG23	1:A:676:ILE:O	2.03	0.57
1:D:800:ARG:HD3	3:F:149:VAL:O	2.03	0.57
1:D:813:ILE:O	1:D:816:ILE:N	2.38	0.57
1:G:279:LEU:HB3	1:G:280:PRO:HD2	1.86	0.57
1:J:322:VAL:HG11	1:J:325:ILE:HD11	1.86	0.57
1:M:107:MLY:CB	1:M:686:MET:HE2	2.32	0.57
1:M:265:ILE:HG22	1:M:266:GLU:N	2.18	0.57
1:P:322:VAL:HG11	1:P:325:ILE:HD11	1.86	0.57
1:P:792:ALA:CB	3:R:42:THR:HG23	2.24	0.57
1:P:813:ILE:O	1:P:816:ILE:N	2.37	0.57
4:X:291:LYS:HB3	4:Z:244:ASP:CA	2.32	0.57
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	0.57
1:D:116:TYR:HB2	1:D:153:PRO:O	2.03	0.57
1:D:418:THR:HG22	1:D:419:VAL:H	1.69	0.57
1:D:541:MET:HG2	4:9:345:ILE:CG2	2.35	0.57
1:G:95:THR:HA	1:G:713:SER:HB3	1.87	0.57
1:G:175:ILE:HA	1:G:670:HIS:O	2.03	0.57
1:G:409:GLY:HA3	4:V:333:PRO:CD	2.35	0.57
1:G:612:GLN:HE22	1:G:627:GLY:HA2	1.66	0.57
1:G:797:PHE:HZ	3:I:146:ILE:HD11	1.62	0.57
3:I:102:VAL:HG23	3:I:139:TYR:CD1	2.39	0.57
1:J:82:PRO:HD2	1:J:85:TYR:CD2	2.40	0.57
1:M:715:VAL:HG11	1:M:720:PHE:HD1	1.68	0.57
1:P:218:LEU:N	1:P:221:GLN:HE21	2.02	0.57
1:P:464:ILE:HG22	1:P:465:ALA:N	2.18	0.57
1:P:726:VAL:HB	1:P:779:ARG:HH22	1.69	0.57
1:A:218:LEU:N	1:A:221:GLN:HE21	2.01	0.57
1:A:643:GLY:HA2	4:8:24:ASP:OD1	2.04	0.57
1:A:783:LEU:O	1:A:787:ILE:N	2.28	0.57
3:C:127:MET:HE2	3:C:137:ILE:HD13	1.85	0.57
1:D:195:TYR:O	1:D:199:ILE:HG23	2.03	0.57
1:D:409:GLY:HA3	4:9:333:PRO:CD	2.35	0.57
1:D:579:PHE:CD2	1:D:592:ILE:HD11	2.39	0.57
1:D:646:PHE:CD2	1:D:652:LEU:CD1	2.85	0.57
3:F:102:VAL:HG23	3:F:139:TYR:CD1	2.39	0.57
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.85	0.57
1:G:813:ILE:O	1:G:816:ILE:N	2.37	0.57
1:M:411:GLU:N	4:Z:333:PRO:HB2	2.11	0.57
1:M:541:MET:HG2	4:Z:345:ILE:CG2	2.35	0.57
1:M:797:PHE:CD1	3:O:149:VAL:HG13	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:789:ALA:HB1	3:R:81:GLN:NE2	2.20	0.57
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.57
1:A:715:VAL:HG11	1:A:720:PHE:HD1	1.68	0.57
1:A:747:LEU:HD23	1:A:747:LEU:O	2.05	0.57
1:A:813:ILE:O	1:A:816:ILE:N	2.37	0.57
1:D:823:PHE:CZ	2:E:156:VAL:CG1	2.88	0.57
1:G:217:THR:C	1:G:221:GLN:NE2	2.62	0.57
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	0.57
1:G:557:GLU:HG3	1:G:557:GLU:O	2.00	0.57
1:G:599:ASN:CG	1:G:649:VAL:H	2.12	0.57
1:G:752:ASP:OD1	1:G:783:LEU:CB	2.52	0.57
1:J:579:PHE:CD2	1:J:592:ILE:HD11	2.40	0.57
1:M:786:ILE:C	1:M:787:ILE:N	2.62	0.57
1:P:541:MET:SD	4:0:346:LEU:O	2.48	0.57
1:P:541:MET:HG2	4:0:345:ILE:CG2	2.35	0.57
4:3:322:PRO:C	4:5:244:ASP:HB2	2.30	0.57
1:A:109:ARG:O	1:A:114:MET:N	2.37	0.57
1:A:265:ILE:HG22	1:A:266:GLU:N	2.18	0.57
1:A:322:VAL:HG11	1:A:325:ILE:HD11	1.86	0.57
1:D:82:PRO:HD2	1:D:85:TYR:CD2	2.40	0.57
1:D:724:TYR:CD1	1:D:782:MLY:CD	2.86	0.57
1:G:747:LEU:HD23	1:G:747:LEU:O	2.05	0.57
1:J:93:MET:HG2	1:J:715:VAL:HA	1.85	0.57
1:J:409:GLY:HA3	4:W:333:PRO:CD	2.35	0.57
1:J:747:LEU:O	1:J:747:LEU:HD23	2.05	0.57
1:M:747:LEU:O	1:M:747:LEU:HD23	2.05	0.57
1:A:149:GLN:CG	1:A:716:LEU:HD23	2.34	0.57
1:G:265:ILE:HG22	1:G:266:GLU:N	2.18	0.57
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.57
1:J:530:MET:CA	4:W:354:GLN:HB3	2.35	0.57
1:J:541:MET:HG2	4:W:345:ILE:CG2	2.35	0.57
1:M:794:CYS:O	1:M:798:LEU:N	2.37	0.57
1:P:202:SER:CA	1:P:207:LYS:HE3	2.27	0.57
1:P:254:PHE:CE2	1:P:459:ILE:HD12	2.39	0.57
1:P:677:PRO:HB2	1:P:678:ASN:ND2	2.20	0.57
4:2:322:PRO:HB2	4:4:244:ASP:CG	2.17	0.57
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.57
1:A:635:GLY:HA3	4:8:334:GLU:CG	2.30	0.57
1:D:530:MET:CA	4:9:354:GLN:HB3	2.35	0.57
1:D:768:MLY:N	1:D:771:LEU:CD1	2.63	0.57
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:715:VAL:HG11	1:G:720:PHE:HD1	1.68	0.57
1:G:795:ARG:NE	3:I:116:GLU:CD	2.62	0.57
1:G:798:LEU:HD23	3:I:118:MET:HB3	1.86	0.57
1:J:561:LYS:HE3	4:Y:48:GLY:CA	2.29	0.57
1:J:638:GLY:CA	4:W:345:ILE:H	2.18	0.57
4:1:287:ILE:HG22	4:3:204:ALA:H	1.69	0.57
4:3:324:THR:HG21	4:5:244:ASP:N	1.80	0.57
1:A:529:PRO:CG	4:8:353:GLN:OE1	2.53	0.56
1:A:649:VAL:HG22	1:A:649:VAL:HA	1.80	0.56
3:C:102:VAL:HG23	3:C:139:TYR:CD1	2.39	0.56
1:G:541:MET:HG2	4:V:345:ILE:CG2	2.35	0.56
1:J:418:THR:HG22	1:J:419:VAL:H	1.69	0.56
1:M:411:GLU:H	4:Z:333:PRO:HG2	1.71	0.56
1:M:676:ILE:O	1:M:676:ILE:HG23	2.03	0.56
1:P:210:GLN:O	1:P:211:SER:OG	2.15	0.56
1:P:568:PRO:HG3	1:P:578:HIS:H	1.69	0.56
1:P:793:ARG:CZ	3:R:40:ASN:HD22	2.07	0.56
1:A:82:PRO:HD2	1:A:85:TYR:CD2	2.40	0.56
1:D:22:LYS:HA	1:D:25:ILE:HB	1.87	0.56
1:D:411:GLU:H	4:9:333:PRO:HG2	1.70	0.56
1:D:797:PHE:CD1	3:F:146:ILE:HA	2.33	0.56
1:J:642:LYS:HG2	4:W:21:PHE:C	2.29	0.56
1:J:783:LEU:O	1:J:787:ILE:CB	2.52	0.56
1:J:784:ALA:O	1:J:788:THR:CB	2.52	0.56
1:M:7:MET:HE3	1:M:14:ALA:HB1	1.85	0.56
1:M:82:PRO:HD2	1:M:85:TYR:CD2	2.40	0.56
1:M:217:THR:HG22	1:M:218:LEU:O	2.05	0.56
1:M:643:GLY:HA2	4:Z:24:ASP:OD1	2.04	0.56
1:M:820:VAL:HG13	2:N:136:MET:HE1	1.86	0.56
1:P:506:GLU:HG2	1:P:759:ALA:HB1	1.85	0.56
4:0:243:PRO:HB2	4:Y:291:LYS:NZ	2.20	0.56
1:A:135:TYR:N	1:A:135:TYR:HD1	2.04	0.56
1:A:210:GLN:O	1:A:211:SER:OG	2.15	0.56
1:A:302:MET:HG2	1:A:303:LEU:HD13	1.87	0.56
1:A:481:ASN:N	1:A:481:ASN:ND2	2.51	0.56
1:A:630:ALA:CA	4:8:25:ASP:OD2	2.53	0.56
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	0.56
1:A:795:ARG:NH2	3:C:116:GLU:HB3	2.08	0.56
1:A:831:TRP:CD1	2:B:51:PHE:CE1	2.91	0.56
1:D:22:LYS:O	1:D:26:GLU:N	2.29	0.56
1:D:99:GLU:OE2	1:D:696:ARG:NH2	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.56
1:D:724:TYR:HA	1:D:782:MLY:HD2	0.62	0.56
1:G:338:ILE:HG21	1:G:348:MLY:HB3	1.87	0.56
1:G:642:LYS:CD	4:V:340:TRP:CZ3	2.80	0.56
3:I:102:VAL:HG11	3:I:107:LEU:HB2	1.85	0.56
1:J:541:MET:SD	4:W:346:LEU:O	2.48	0.56
1:J:568:PRO:HG3	1:J:578:HIS:H	1.69	0.56
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	0.56
1:J:677:PRO:HB2	1:J:678:ASN:ND2	2.20	0.56
1:J:797:PHE:HE2	3:L:126:LEU:HD22	1.62	0.56
1:J:801:VAL:HG21	3:L:126:LEU:HD21	1.84	0.56
1:J:813:ILE:O	1:J:816:ILE:N	2.37	0.56
1:M:322:VAL:HG11	1:M:325:ILE:HD11	1.86	0.56
1:M:530:MET:CA	4:Z:354:GLN:HB3	2.35	0.56
1:M:630:ALA:CA	4:Z:25:ASP:OD2	2.53	0.56
1:P:804:ARG:O	1:P:808:GLU:N	2.38	0.56
1:P:817:GLN:HB3	2:Q:127:ARG:CZ	2.34	0.56
4:1:244:ASP:HB2	4:Z:322:PRO:C	2.30	0.56
4:1:365:ALA:HB3	4:1:369:ILE:HB	1.88	0.56
4:3:365:ALA:HB3	4:3:369:ILE:HB	1.88	0.56
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.85	0.56
1:A:149:GLN:CD	1:A:718:ALA:CB	2.54	0.56
1:A:634:GLY:N	4:8:25:ASP:O	2.31	0.56
1:A:646:PHE:CD2	1:A:652:LEU:CD1	2.85	0.56
1:A:677:PRO:HB2	1:A:678:ASN:ND2	2.20	0.56
1:A:755:HIS:HA	1:A:758:TYR:HE1	1.64	0.56
1:A:797:PHE:CD2	3:C:146:ILE:HD12	2.37	0.56
1:D:135:TYR:N	1:D:135:TYR:HD1	2.04	0.56
1:D:215:GLN:CA	1:D:340:ILE:CG2	2.63	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:G:643:GLY:HA2	4:V:24:ASP:OD1	2.04	0.56
1:G:676:ILE:HG23	1:G:676:ILE:O	2.03	0.56
1:G:677:PRO:HB2	1:G:678:ASN:ND2	2.20	0.56
1:G:769:ALA:HB2	1:G:770:GLY:N	2.20	0.56
1:M:135:TYR:N	1:M:135:TYR:HD1	2.04	0.56
1:M:295:MLY:CG	1:M:332:MET:HE2	2.36	0.56
1:M:553:MLY:HG3	4:1:43:VAL:CG2	2.31	0.56
1:M:755:HIS:HA	1:M:758:TYR:HE1	1.64	0.56
3:O:102:VAL:HG23	3:O:139:TYR:CD1	2.39	0.56
1:P:97:LEU:HD23	1:P:712:PRO:HB3	1.83	0.56
1:P:642:LYS:HG2	4:0:21:PHE:C	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:783:LEU:O	1:P:786:ILE:HG13	2.05	0.56
1:P:789:ALA:HB1	3:R:81:GLN:CG	2.35	0.56
4:2:287:ILE:HB	4:4:204:ALA:N	2.21	0.56
1:A:338:ILE:HG21	1:A:348:MLY:HB3	1.87	0.56
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:546:THR:HG21	1:A:548:THR:HB	1.88	0.56
1:A:568:PRO:HG3	1:A:578:HIS:H	1.69	0.56
1:D:116:TYR:CE2	1:D:154:HIS:CD2	2.94	0.56
1:D:406:VAL:HG12	1:D:407:GLY:H	1.71	0.56
1:D:568:PRO:HG3	1:D:578:HIS:H	1.69	0.56
1:G:135:TYR:N	1:G:135:TYR:HD1	2.04	0.56
1:G:302:MET:HG2	1:G:303:LEU:HD13	1.88	0.56
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	0.56
1:G:733:PRO:CB	1:G:737:PHE:HE1	2.19	0.56
1:J:83:PRO:C	1:J:723:ARG:HH21	2.13	0.56
3:L:3:SER:HG	3:L:5:ALA:N	2.03	0.56
1:M:506:GLU:OE2	1:M:761:GLY:CA	2.50	0.56
1:M:783:LEU:CD1	1:M:786:ILE:CD1	2.64	0.56
1:P:733:PRO:CB	1:P:737:PHE:HE1	2.19	0.56
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.88	0.56
4:W:223:PHE:HD2	4:W:312:ARG:NH2	1.99	0.56
4:X:287:ILE:HG23	4:Z:201:VAL:HG23	1.87	0.56
1:D:677:PRO:HB2	1:D:678:ASN:ND2	2.20	0.56
1:D:733:PRO:CB	1:D:737:PHE:HE1	2.19	0.56
1:G:649:VAL:HA	1:G:649:VAL:HG22	1.80	0.56
1:G:725:ARG:HG3	1:G:733:PRO:CA	2.36	0.56
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.94	0.56
1:J:338:ILE:HG21	1:J:348:MLY:HB3	1.87	0.56
1:J:769:ALA:HB3	1:J:770:GLY:HA3	1.87	0.56
1:J:794:CYS:O	1:J:798:LEU:N	2.37	0.56
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	0.56
1:M:109:ARG:O	1:M:114:MET:N	2.37	0.56
1:M:546:THR:HG21	1:M:548:THR:HB	1.88	0.56
1:M:795:ARG:HG3	3:O:118:MET:CE	2.10	0.56
1:P:22:LYS:HA	1:P:25:ILE:HB	1.87	0.56
1:P:116:TYR:CE2	1:P:154:HIS:CD2	2.94	0.56
1:P:206:LYS:HB3	1:P:217:THR:OG1	2.06	0.56
1:P:530:MET:CA	4:0:354:GLN:HB3	2.35	0.56
1:P:839:MLY:HH21	2:Q:158:THR:CG2	2.35	0.56
4:1:204:ALA:H	4:Z:287:ILE:HG21	1.67	0.56
4:1:324:THR:OG1	4:3:244:ASP:CB	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:TYR:CE2	1:A:154:HIS:CD2	2.94	0.56
1:A:206:LYS:HB3	1:A:217:THR:OG1	2.06	0.56
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.56
1:A:530:MET:CA	4:8:354:GLN:HB3	2.35	0.56
1:D:795:ARG:CZ	3:F:116:GLU:HB3	2.35	0.56
1:D:831:TRP:CZ3	2:E:50:THR:HG21	2.38	0.56
1:G:7:MET:HE3	1:G:14:ALA:CB	2.36	0.56
1:G:295:MLY:CG	1:G:332:MET:HE2	2.36	0.56
1:J:13:ALA:C	1:J:15:PRO:HD2	2.31	0.56
1:J:135:TYR:N	1:J:135:TYR:HD1	2.04	0.56
1:J:640:LYS:C	4:W:23:GLY:C	2.74	0.56
1:M:206:LYS:HB3	1:M:217:THR:OG1	2.06	0.56
1:M:649:VAL:CG1	1:M:649:VAL:HA	2.35	0.56
1:M:795:ARG:NE	3:O:118:MET:CE	2.68	0.56
1:P:638:GLY:CA	4:0:345:ILE:H	2.18	0.56
1:P:640:LYS:C	4:0:23:GLY:C	2.74	0.56
4:1:203:THR:CG2	4:Z:287:ILE:HB	2.35	0.56
1:A:7:MET:HE3	1:A:14:ALA:CB	2.36	0.56
1:A:502:GLU:C	1:A:761:GLY:HA2	2.30	0.56
1:A:649:VAL:HA	1:A:649:VAL:HG23	1.83	0.56
1:D:435:GLU:O	1:D:438:PHE:HB3	2.06	0.56
1:D:529:PRO:CG	4:9:353:GLN:OE1	2.53	0.56
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	0.56
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	0.56
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.56
1:M:435:GLU:O	1:M:438:PHE:HB3	2.06	0.56
1:M:804:ARG:C	1:M:808:GLU:H	2.14	0.56
1:M:813:ILE:O	1:M:816:ILE:N	2.38	0.56
1:P:32:PHE:CG	1:P:83:PRO:HD3	2.41	0.56
1:P:82:PRO:HD2	1:P:85:TYR:CD2	2.40	0.56
1:P:338:ILE:HG21	1:P:348:MLY:HB3	1.87	0.56
1:P:629:GLU:O	1:P:643:GLY:HA3	2.06	0.56
1:P:640:LYS:C	1:P:645:SER:HG	2.08	0.56
1:P:725:ARG:HG3	1:P:733:PRO:CA	2.36	0.56
1:P:733:PRO:CA	1:P:737:PHE:HE1	2.19	0.56
1:P:806:MET:HB2	1:P:807:VAL:N	2.21	0.56
1:A:559:LEU:HD23	1:A:559:LEU:C	2.31	0.56
1:A:818:TYR:CB	2:B:89:LYS:C	2.78	0.56
1:D:638:GLY:CA	4:9:345:ILE:H	2.19	0.56
1:D:727:LEU:CA	1:D:782:MLY:HE2	2.36	0.56
1:G:22:LYS:O	1:G:26:GLU:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:ARG:O	1:G:114:MET:N	2.37	0.56
1:G:217:THR:HG22	1:G:218:LEU:O	2.06	0.56
1:G:435:GLU:O	1:G:438:PHE:HB3	2.06	0.56
1:G:537:GLU:HB3	1:G:648:THR:CB	2.36	0.56
1:G:649:VAL:CG1	1:G:649:VAL:HA	2.35	0.56
1:G:783:LEU:HA	1:G:786:ILE:HB	1.87	0.56
1:J:630:ALA:CA	4:W:25:ASP:OD2	2.53	0.56
1:J:756:THR:HG22	1:J:776:GLU:HA	1.77	0.56
1:P:13:ALA:C	1:P:15:PRO:HD2	2.31	0.56
1:P:630:ALA:CA	4:0:25:ASP:OD2	2.53	0.56
1:P:783:LEU:O	1:P:786:ILE:N	2.38	0.56
4:0:173:HIS:CD2	4:1:268:GLY:CA	2.88	0.56
4:V:288:ASP:N	4:X:204:ALA:H	2.03	0.56
1:A:22:LYS:O	1:A:26:GLU:HG3	2.06	0.56
1:D:725:ARG:HG3	1:D:733:PRO:CA	2.36	0.56
1:G:206:LYS:HB3	1:G:217:THR:OG1	2.06	0.56
1:G:530:MET:CA	4:V:354:GLN:HB3	2.35	0.56
1:J:217:THR:HG22	1:J:218:LEU:O	2.05	0.56
1:J:530:MET:CB	4:W:354:GLN:HG3	2.37	0.56
1:M:529:PRO:CG	4:Z:353:GLN:OE1	2.54	0.56
1:M:546:THR:HB	1:M:549:SER:H	1.71	0.56
1:M:629:GLU:O	1:M:643:GLY:HA3	2.06	0.56
1:M:806:MET:HA	1:M:809:ARG:HB2	1.88	0.56
1:P:217:THR:HG22	1:P:218:LEU:O	2.05	0.56
1:P:409:GLY:HA3	4:0:333:PRO:CD	2.35	0.56
1:P:530:MET:CB	4:0:354:GLN:HG3	2.36	0.56
1:P:642:LYS:CA	4:0:22:ALA:C	2.70	0.56
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.56
1:A:631:GLU:C	4:8:25:ASP:HB2	2.32	0.55
1:A:806:MET:HE1	3:C:17:PHE:HE2	1.71	0.55
1:D:32:PHE:CG	1:D:83:PRO:HD3	2.41	0.55
1:D:290:GLN:HG2	1:D:331:LEU:HA	1.87	0.55
1:D:640:LYS:C	4:9:23:GLY:C	2.74	0.55
1:D:733:PRO:CA	1:D:737:PHE:HE1	2.18	0.55
1:D:795:ARG:HD2	3:F:35:ARG:NH1	2.16	0.55
1:D:795:ARG:HB2	3:F:35:ARG:NH1	2.17	0.55
1:D:798:LEU:HD13	3:F:126:LEU:HD13	1.82	0.55
1:D:819:ASN:OD1	2:E:91:ALA:HA	1.87	0.55
1:G:529:PRO:CG	4:V:353:GLN:OE1	2.54	0.55
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.55
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:725:ARG:HG3	1:J:733:PRO:CA	2.36	0.55
1:M:604:ASN:OD1	1:M:607:VAL:HG23	2.06	0.55
1:M:733:PRO:CA	1:M:737:PHE:HE1	2.19	0.55
1:P:529:PRO:CG	4:0:353:GLN:OE1	2.54	0.55
1:P:549:SER:HA	4:2:49:GLN:HG3	1.88	0.55
1:P:559:LEU:C	1:P:559:LEU:HD23	2.31	0.55
1:P:792:ALA:CB	3:R:42:THR:CA	2.84	0.55
3:R:102:VAL:HG23	3:R:139:TYR:CD1	2.39	0.55
4:1:287:ILE:HB	4:3:203:THR:CB	2.35	0.55
4:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.88	0.55
1:A:32:PHE:CG	1:A:83:PRO:HD3	2.42	0.55
1:A:290:GLN:HG2	1:A:331:LEU:HA	1.87	0.55
1:A:546:THR:HB	1:A:549:SER:H	1.71	0.55
1:A:612:GLN:HE22	1:A:627:GLY:HA2	1.66	0.55
1:A:733:PRO:CA	1:A:737:PHE:HE1	2.19	0.55
1:A:752:ASP:OD2	1:A:782:MLY:HG2	2.06	0.55
1:D:529:PRO:CB	4:9:354:GLN:HA	2.36	0.55
1:D:747:LEU:HD23	1:D:747:LEU:O	2.05	0.55
1:G:116:TYR:CE2	1:G:154:HIS:CD2	2.94	0.55
1:G:411:GLU:H	4:V:333:PRO:HG2	1.70	0.55
1:G:631:GLU:C	4:V:25:ASP:HB2	2.31	0.55
1:G:753:VAL:O	1:G:779:ARG:HD3	2.06	0.55
1:J:629:GLU:O	1:J:643:GLY:HA3	2.06	0.55
2:K:140:PHE:O	2:K:141:PRO:C	2.33	0.55
1:M:730:SER:OG	3:O:96:LYS:HB3	2.06	0.55
1:P:217:THR:C	1:P:221:GLN:NE2	2.62	0.55
1:P:406:VAL:HG12	1:P:407:GLY:H	1.71	0.55
1:P:546:THR:HG21	1:P:548:THR:HB	1.88	0.55
1:P:631:GLU:C	4:0:25:ASP:HB2	2.32	0.55
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.88	0.55
4:V:291:LYS:HD2	4:X:243:PRO:HB2	1.87	0.55
1:A:345:ALA:O	1:A:349:THR:N	2.40	0.55
1:A:406:VAL:HG12	1:A:407:GLY:H	1.71	0.55
1:A:537:GLU:HB3	1:A:648:THR:CB	2.36	0.55
1:A:640:LYS:C	4:8:23:GLY:C	2.74	0.55
1:A:735:GLY:O	1:A:743:ALA:HA	1.94	0.55
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	0.55
1:D:630:ALA:CA	4:9:25:ASP:OD2	2.53	0.55
1:D:795:ARG:NE	3:F:116:GLU:HB3	2.20	0.55
1:G:127:ASN:ND2	1:G:128:PRO:HD2	2.17	0.55
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:819:ASN:ND2	2:H:90:GLY:O	2.39	0.55
3:I:35:ARG:HA	3:I:39:GLN:O	2.07	0.55
1:J:831:TRP:HZ2	2:K:47:LEU:HD21	1.67	0.55
1:M:32:PHE:CG	1:M:83:PRO:HD3	2.42	0.55
1:M:84:MLY:CD	1:M:723:ARG:CD	2.75	0.55
1:M:290:GLN:HG2	1:M:331:LEU:HA	1.87	0.55
1:M:338:ILE:HG21	1:M:348:MLY:HB3	1.87	0.55
1:M:529:PRO:CB	4:Z:354:GLN:HA	2.36	0.55
1:M:649:VAL:HA	1:M:649:VAL:HG22	1.80	0.55
1:M:677:PRO:HB2	1:M:678:ASN:ND2	2.20	0.55
3:O:46:ILE:O	3:O:50:LEU:CG	2.47	0.55
3:O:123:VAL:O	3:O:127:MET:HG2	2.07	0.55
1:P:579:PHE:HE1	1:P:581:LEU:HD13	1.72	0.55
1:P:727:LEU:CD2	1:P:779:ARG:HE	2.19	0.55
1:P:786:ILE:C	1:P:787:ILE:C	2.73	0.55
1:P:791:GLN:NE2	3:R:116:GLU:H	2.05	0.55
3:R:46:ILE:O	3:R:50:LEU:CG	2.47	0.55
4:0:365:ALA:HB3	4:0:369:ILE:HB	1.88	0.55
4:1:287:ILE:CG2	4:3:202:THR:CA	2.82	0.55
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.55
1:A:290:GLN:NE2	1:A:334:THR:OG1	2.40	0.55
1:A:438:PHE:HA	1:A:441:MET:HE3	1.88	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
2:E:156:VAL:HA	2:E:159:HIS:O	2.07	0.55
1:J:579:PHE:HE1	1:J:581:LEU:HD13	1.72	0.55
1:J:646:PHE:CE2	1:J:652:LEU:CG	2.90	0.55
1:J:821:ARG:HH22	2:K:127:ARG:CD	2.10	0.55
1:M:7:MET:HE3	1:M:14:ALA:CB	2.36	0.55
1:M:13:ALA:C	1:M:15:PRO:HD2	2.31	0.55
1:M:630:ALA:HA	4:Z:25:ASP:OD2	2.07	0.55
1:P:411:GLU:H	4:0:333:PRO:HG2	1.70	0.55
1:P:579:PHE:CD2	1:P:592:ILE:HD11	2.40	0.55
1:P:646:PHE:CE2	1:P:652:LEU:CG	2.90	0.55
4:1:287:ILE:CA	4:3:202:THR:HB	2.35	0.55
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.88	0.55
4:X:287:ILE:CG2	4:Z:201:VAL:HG23	2.37	0.55
4:X:365:ALA:HB3	4:X:369:ILE:HB	1.88	0.55
1:A:529:PRO:CB	4:8:354:GLN:HA	2.36	0.55
1:A:604:ASN:OD1	1:A:607:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLU:O	1:A:643:GLY:HA3	2.06	0.55
1:A:725:ARG:HG3	1:A:733:PRO:CA	2.36	0.55
3:C:35:ARG:HA	3:C:39:GLN:O	2.07	0.55
1:D:546:THR:HG21	1:D:548:THR:HB	1.88	0.55
1:D:604:ASN:OD1	1:D:607:VAL:HG23	2.06	0.55
1:G:546:THR:HB	1:G:549:SER:H	1.71	0.55
1:G:579:PHE:HE1	1:G:581:LEU:HD13	1.72	0.55
1:G:752:ASP:OD1	1:G:783:LEU:CA	2.54	0.55
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	0.55
1:J:733:PRO:CB	1:J:737:PHE:HE1	2.19	0.55
1:M:22:LYS:HA	1:M:25:ILE:HB	1.87	0.55
1:M:302:MET:HG2	1:M:303:LEU:HD13	1.87	0.55
1:M:481:ASN:N	1:M:481:ASN:ND2	2.51	0.55
1:M:640:LYS:C	4:Z:23:GLY:C	2.74	0.55
1:M:806:MET:HB2	1:M:807:VAL:N	2.21	0.55
1:M:826:VAL:HG21	2:N:88:LEU:HD23	1.89	0.55
1:P:502:GLU:OE2	1:P:760:PHE:C	2.50	0.55
1:P:635:GLY:HA3	4:0:334:GLU:CG	2.30	0.55
1:P:818:TYR:C	2:Q:90:GLY:HA3	2.31	0.55
3:R:123:VAL:O	3:R:127:MET:HG2	2.07	0.55
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.88	0.55
4:W:365:ALA:HB3	4:W:369:ILE:HB	1.88	0.55
1:D:206:LYS:HB3	1:D:217:THR:OG1	2.06	0.55
1:D:629:GLU:O	1:D:643:GLY:HA3	2.06	0.55
1:D:727:LEU:CD1	1:D:782:MLY:NZ	2.53	0.55
1:G:795:ARG:C	3:I:35:ARG:HH22	2.09	0.55
3:I:123:VAL:O	3:I:127:MET:HG2	2.07	0.55
1:J:22:LYS:HA	1:J:25:ILE:HB	1.87	0.55
1:J:32:PHE:CG	1:J:83:PRO:HD3	2.41	0.55
1:J:206:LYS:HB3	1:J:217:THR:OG1	2.06	0.55
1:J:302:MET:HG2	1:J:303:LEU:HD13	1.87	0.55
1:J:529:PRO:CB	4:W:354:GLN:HA	2.36	0.55
1:J:821:ARG:HH12	2:K:127:ARG:NE	2.03	0.55
1:J:834:LEU:HD12	2:K:51:PHE:CE1	2.41	0.55
1:M:84:MLY:HH12	1:M:715:VAL:CG2	2.37	0.55
1:M:116:TYR:CE2	1:M:154:HIS:CD2	2.94	0.55
1:M:406:VAL:HG12	1:M:407:GLY:H	1.71	0.55
1:M:783:LEU:N	1:M:786:ILE:HD11	2.22	0.55
1:P:135:TYR:N	1:P:135:TYR:HD1	2.04	0.55
1:P:546:THR:HB	1:P:549:SER:H	1.71	0.55
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:338:ILE:HG21	1:D:348:MLY:HB3	1.87	0.55
1:D:530:MET:CB	4:9:354:GLN:HG3	2.36	0.55
1:D:631:GLU:C	4:9:25:ASP:HB2	2.31	0.55
1:D:646:PHE:CE2	1:D:652:LEU:CG	2.90	0.55
1:G:22:LYS:HA	1:G:25:ILE:HB	1.87	0.55
1:G:290:GLN:NE2	1:G:334:THR:OG1	2.40	0.55
1:G:438:PHE:HA	1:G:441:MET:HE3	1.88	0.55
1:G:629:GLU:O	1:G:643:GLY:HA3	2.06	0.55
1:G:643:GLY:N	4:V:23:GLY:C	2.55	0.55
1:G:646:PHE:CE2	1:G:652:LEU:CG	2.90	0.55
1:G:733:PRO:CA	1:G:737:PHE:HE1	2.19	0.55
1:G:739:ASP:CB	1:G:742:LYS:CB	2.81	0.55
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.55
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	0.55
1:J:95:THR:CA	1:J:713:SER:CB	2.75	0.55
1:J:529:PRO:CG	4:W:353:GLN:OE1	2.54	0.55
1:J:733:PRO:CA	1:J:737:PHE:HE1	2.19	0.55
1:M:35:MLY:CH2	1:M:778:MET:HA	2.37	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:646:PHE:CE2	1:M:652:LEU:CG	2.90	0.55
1:M:795:ARG:CB	3:O:35:ARG:NH1	2.70	0.55
1:M:829:TRP:CE3	2:N:87:LYS:NZ	2.72	0.55
1:P:7:MET:HE3	1:P:14:ALA:CB	2.36	0.55
1:P:22:LYS:O	1:P:26:GLU:HG3	2.07	0.55
1:P:819:ASN:CG	2:Q:92:ASP:N	2.58	0.55
1:P:829:TRP:CZ2	2:Q:83:MET:HE3	2.42	0.55
4:1:299:MET:HE2	4:1:331:ALA:HB2	1.88	0.55
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.88	0.55
2:B:156:VAL:HA	2:B:159:HIS:O	2.07	0.55
3:C:123:VAL:O	3:C:127:MET:HG2	2.06	0.55
1:D:305:ILE:HG22	1:D:312:TYR:CE2	2.42	0.55
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	0.55
1:D:830:PRO:HB2	2:E:51:PHE:CE1	2.42	0.55
1:D:831:TRP:CZ2	2:E:47:LEU:HD22	2.42	0.55
1:D:831:TRP:HZ2	2:E:47:LEU:CB	2.20	0.55
3:F:123:VAL:O	3:F:127:MET:HG2	2.07	0.55
1:G:638:GLY:CA	4:V:345:ILE:H	2.18	0.55
1:G:797:PHE:CE2	3:I:126:LEU:HD21	2.29	0.55
1:G:826:VAL:HG21	2:H:88:LEU:CD2	2.37	0.55
1:J:97:LEU:HD22	1:J:712:PRO:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:345:ALA:O	1:J:349:THR:N	2.40	0.55
1:J:411:GLU:H	4:W:333:PRO:HG2	1.71	0.55
1:J:435:GLU:O	1:J:438:PHE:HB3	2.06	0.55
1:J:649:VAL:CG1	1:J:649:VAL:HA	2.35	0.55
1:M:22:LYS:O	1:M:26:GLU:N	2.30	0.55
1:M:290:GLN:NE2	1:M:334:THR:OG1	2.40	0.55
1:M:638:GLY:CA	4:Z:345:ILE:H	2.18	0.55
1:M:832:MET:SD	2:N:84:PHE:HE2	2.30	0.55
1:P:435:GLU:O	1:P:438:PHE:HB3	2.06	0.55
1:P:438:PHE:HA	1:P:441:MET:HE3	1.88	0.55
2:Q:156:VAL:HA	2:Q:159:HIS:O	2.07	0.55
4:0:167:GLU:CD	4:2:42:GLY:CA	2.43	0.55
4:0:299:MET:HE2	4:0:331:ALA:HB2	1.88	0.55
4:7:365:ALA:HB3	4:7:369:ILE:HB	1.88	0.55
4:9:365:ALA:HB3	4:9:369:ILE:HB	1.88	0.55
1:A:723:ARG:CG	1:A:723:ARG:HH11	2.20	0.55
1:D:295:MLY:CG	1:D:332:MET:HE2	2.36	0.55
1:D:302:MET:HG2	1:D:303:LEU:HD13	1.88	0.55
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	0.55
1:D:726:VAL:O	1:D:785:GLU:CG	2.52	0.55
1:G:290:GLN:HG2	1:G:331:LEU:HA	1.87	0.55
1:J:290:GLN:HG2	1:J:331:LEU:HA	1.87	0.55
1:J:546:THR:HG21	1:J:548:THR:HB	1.88	0.55
1:J:604:ASN:OD1	1:J:607:VAL:HG23	2.06	0.55
2:K:144:VAL:HG12	2:K:153:ILE:HD11	1.75	0.55
2:K:156:VAL:HA	2:K:159:HIS:O	2.07	0.55
1:M:438:PHE:HA	1:M:441:MET:HE3	1.88	0.55
1:M:530:MET:CB	4:Z:354:GLN:HG3	2.36	0.55
1:M:537:GLU:HB3	1:M:648:THR:CB	2.36	0.55
1:P:290:GLN:NE2	1:P:334:THR:OG1	2.40	0.55
1:P:813:ILE:HG23	2:Q:128:PHE:CE1	2.42	0.55
4:2:365:ALA:HB3	4:2:369:ILE:HB	1.88	0.55
4:3:287:ILE:HG21	4:5:204:ALA:H	1.67	0.55
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.88	0.55
4:X:291:LYS:HD2	4:Z:243:PRO:C	2.31	0.55
4:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.88	0.55
1:A:22:LYS:HA	1:A:25:ILE:HB	1.88	0.55
1:A:127:ASN:ND2	1:A:128:PRO:HD2	2.16	0.55
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	0.55
1:A:630:ALA:HA	4:8:25:ASP:OD2	2.07	0.55
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:646:PHE:CE2	1:A:652:LEU:CG	2.90	0.55
1:A:800:ARG:CG	3:C:149:VAL:HG22	2.35	0.55
1:A:813:ILE:HG12	2:B:128:PHE:HE1	1.72	0.55
1:D:135:TYR:HD2	1:D:191:ARG:HG2	1.72	0.55
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	0.55
3:F:35:ARG:HA	3:F:39:GLN:O	2.07	0.55
1:G:604:ASN:OD1	1:G:607:VAL:HG23	2.06	0.55
1:G:638:GLY:HA2	4:V:345:ILE:H	1.72	0.55
1:G:791:GLN:HE22	3:I:115:GLY:HA2	1.62	0.55
2:H:156:VAL:HA	2:H:159:HIS:O	2.07	0.55
3:I:49:ILE:CA	3:I:52:ASN:ND2	2.53	0.55
1:J:295:MLY:CG	1:J:332:MET:HE2	2.36	0.55
1:J:559:LEU:HD23	1:J:559:LEU:C	2.31	0.55
1:J:561:LYS:CE	4:Y:48:GLY:CA	2.82	0.55
1:M:84:MLY:HH12	1:M:715:VAL:HG21	1.88	0.55
1:M:135:TYR:HD2	1:M:191:ARG:HG2	1.72	0.55
1:M:723:ARG:HH11	1:M:723:ARG:CG	2.20	0.55
3:O:35:ARG:HA	3:O:39:GLN:O	2.07	0.55
1:P:109:ARG:O	1:P:114:MET:N	2.37	0.55
1:P:135:TYR:HD2	1:P:191:ARG:HG2	1.72	0.55
1:P:290:GLN:HG2	1:P:331:LEU:HA	1.87	0.55
1:P:503:TYR:HH	1:P:711:PHE:HD2	0.64	0.55
1:P:529:PRO:CB	4:0:354:GLN:HA	2.36	0.55
1:P:612:GLN:HE22	1:P:627:GLY:HA2	1.66	0.55
4:2:148:THR:HG21	4:4:45:VAL:HG21	1.89	0.55
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.88	0.55
1:A:10:PHE:O	1:A:12:GLU:N	2.41	0.54
1:A:93:MET:O	1:A:713:SER:HB3	2.06	0.54
1:A:149:GLN:CB	1:A:718:ALA:CA	2.85	0.54
1:A:831:TRP:CZ3	2:B:34:ILE:CG2	2.87	0.54
1:D:7:MET:HE3	1:D:14:ALA:CB	2.36	0.54
1:D:295:MLY:CD	1:D:332:MET:HE2	2.37	0.54
1:D:438:PHE:HA	1:D:441:MET:HE3	1.88	0.54
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	0.54
1:D:797:PHE:CD1	3:F:146:ILE:CB	2.87	0.54
1:G:78:PHE:HB3	1:G:98:HIS:NE2	2.22	0.54
1:G:831:TRP:CZ3	2:H:34:ILE:HG21	2.41	0.54
1:J:295:MLY:CD	1:J:332:MET:HE2	2.37	0.54
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.80	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CZ	2.42	0.54
1:M:345:ALA:O	1:M:349:THR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:795:ARG:HD2	3:O:35:ARG:HH12	1.72	0.54
1:P:82:PRO:HD2	1:P:85:TYR:HD2	1.72	0.54
1:P:302:MET:HG2	1:P:303:LEU:HD13	1.87	0.54
1:P:537:GLU:HB3	1:P:648:THR:CB	2.36	0.54
4:V:291:LYS:HD2	4:X:243:PRO:CB	2.38	0.54
4:Z:365:ALA:HB3	4:Z:369:ILE:HB	1.88	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CE2	2.43	0.54
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	0.54
1:A:638:GLY:HA2	4:8:345:ILE:H	1.72	0.54
1:D:22:LYS:O	1:D:26:GLU:HG3	2.07	0.54
1:D:290:GLN:NE2	1:D:334:THR:OG1	2.40	0.54
1:D:553:MLY:HG3	4:W:44:MET:O	2.07	0.54
1:G:32:PHE:CG	1:G:83:PRO:HD3	2.41	0.54
1:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.54
1:G:126:VAL:HG13	1:G:675:ILE:HG22	1.89	0.54
1:G:530:MET:CB	4:V:354:GLN:HG3	2.37	0.54
1:G:754:ASP:HA	1:G:779:ARG:CZ	2.35	0.54
1:G:834:LEU:HD21	2:H:34:ILE:HG12	1.87	0.54
1:J:438:PHE:HA	1:J:441:MET:HE3	1.88	0.54
1:J:561:LYS:HE2	4:Y:48:GLY:HA3	1.88	0.54
1:M:733:PRO:CB	1:M:737:PHE:HE1	2.19	0.54
1:M:797:PHE:CZ	3:O:146:ILE:HA	2.41	0.54
1:M:806:MET:HA	1:M:809:ARG:CD	2.37	0.54
1:P:295:MLY:CG	1:P:332:MET:HE2	2.36	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CE2	2.43	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CZ	2.42	0.54
1:P:832:MET:SD	2:Q:84:PHE:HE2	2.30	0.54
4:W:286:ASP:OD2	4:Y:203:THR:CG2	2.47	0.54
1:A:82:PRO:HD2	1:A:85:TYR:HD2	1.72	0.54
1:A:505:MLY:HH21	1:A:762:HIS:O	2.03	0.54
1:A:508:ILE:HD13	1:A:759:ALA:HB3	1.75	0.54
1:A:579:PHE:HE1	1:A:581:LEU:HD13	1.72	0.54
1:D:10:PHE:O	1:D:12:GLU:N	2.41	0.54
1:D:82:PRO:HD2	1:D:85:TYR:HD2	1.72	0.54
1:D:218:LEU:HA	1:D:221:GLN:HG3	1.71	0.54
1:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.54
1:D:638:GLY:HA2	4:9:345:ILE:H	1.72	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	0.54
1:G:406:VAL:HG12	1:G:407:GLY:H	1.71	0.54
1:G:817:GLN:HG3	2:H:128:PHE:CE1	2.41	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	0.54
1:J:546:THR:HB	1:J:549:SER:H	1.71	0.54
1:J:634:GLY:N	4:W:25:ASP:O	2.31	0.54
1:J:723:ARG:HH11	1:J:723:ARG:CG	2.20	0.54
1:M:78:PHE:HB3	1:M:98:HIS:NE2	2.22	0.54
1:M:84:MLY:HB3	1:M:723:ARG:HE	1.61	0.54
1:M:769:ALA:C	1:M:770:GLY:C	2.76	0.54
1:M:785:GLU:O	1:M:789:ALA:CB	2.53	0.54
1:P:84:MLY:CH1	1:P:724:TYR:OH	2.55	0.54
1:P:126:VAL:HG13	1:P:675:ILE:HG22	1.90	0.54
1:P:295:MLY:CD	1:P:332:MET:HE2	2.37	0.54
1:P:345:ALA:O	1:P:349:THR:N	2.40	0.54
1:P:727:LEU:CG	1:P:779:ARG:HH21	2.09	0.54
1:P:759:ALA:O	1:P:766:PHE:N	2.32	0.54
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.88	0.54
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	1.88	0.54
1:A:51:THR:C	1:A:62:VAL:HG13	2.32	0.54
1:D:345:ALA:O	1:D:349:THR:N	2.40	0.54
1:G:38:VAL:CB	1:G:52:ILE:HD11	2.38	0.54
1:G:345:ALA:O	1:G:349:THR:N	2.40	0.54
1:G:546:THR:HG21	1:G:548:THR:HB	1.88	0.54
1:G:795:ARG:N	3:I:118:MET:HE3	2.23	0.54
1:J:126:VAL:HG13	1:J:675:ILE:HG22	1.90	0.54
1:J:290:GLN:NE2	1:J:334:THR:OG1	2.40	0.54
1:M:38:VAL:CB	1:M:52:ILE:HD11	2.38	0.54
1:M:642:LYS:HG2	4:Z:21:PHE:C	2.29	0.54
1:P:10:PHE:O	1:P:12:GLU:N	2.40	0.54
1:P:629:GLU:CA	1:P:643:GLY:C	2.73	0.54
1:P:723:ARG:HH11	1:P:723:ARG:CG	2.20	0.54
2:Q:139:ALA:C	2:Q:141:PRO:HD3	2.33	0.54
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.88	0.54
1:A:93:MET:HE1	1:A:716:LEU:H	1.66	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:D:126:VAL:HG13	1:D:675:ILE:HG22	1.90	0.54
1:G:765:VAL:HG12	1:G:766:PHE:N	2.22	0.54
1:J:135:TYR:HD2	1:J:191:ARG:HG2	1.72	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CZ	2.42	0.54
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	0.54
1:J:635:GLY:HA3	4:W:334:GLU:CG	2.30	0.54
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	0.54
1:J:839:MLY:HH21	2:K:158:THR:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:146:GLY:O	2:K:147:ASN:ND2	2.41	0.54
1:M:34:ALA:HB3	1:M:777:GLU:HG3	1.87	0.54
1:M:103:LEU:HD12	1:M:103:LEU:C	2.33	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CE2	2.43	0.54
1:M:819:ASN:OD1	2:N:90:GLY:O	2.24	0.54
1:P:215:GLN:CA	1:P:340:ILE:CG2	2.62	0.54
1:P:604:ASN:OD1	1:P:607:VAL:HG23	2.06	0.54
1:A:78:PHE:HB3	1:A:98:HIS:NE2	2.22	0.54
1:A:418:THR:CB	1:A:421:GLU:HG3	2.37	0.54
1:D:571:ALA:O	1:D:572:LYS:CB	2.56	0.54
1:D:630:ALA:HA	4:9:25:ASP:OD2	2.07	0.54
2:E:139:ALA:C	2:E:141:PRO:HD3	2.33	0.54
1:G:576:GLU:CG	1:G:577:ALA:N	2.43	0.54
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.54
1:G:649:VAL:HA	1:G:649:VAL:HG23	1.83	0.54
1:G:754:ASP:CG	1:G:776:GLU:HA	2.32	0.54
1:M:84:MLY:HH21	1:M:719:ASP:C	2.29	0.54
1:M:629:GLU:CA	1:M:643:GLY:C	2.73	0.54
1:M:733:PRO:O	1:M:737:PHE:CE1	2.53	0.54
1:P:78:PHE:HB3	1:P:98:HIS:NE2	2.22	0.54
1:P:493:HIS:ND1	1:P:514:ASP:OD2	2.41	0.54
3:R:35:ARG:HA	3:R:39:GLN:O	2.07	0.54
4:3:324:THR:H	4:5:244:ASP:HA	1.73	0.54
1:A:135:TYR:HD2	1:A:191:ARG:HG2	1.72	0.54
1:A:470:PHE:O	1:A:473:ASN:ND2	2.40	0.54
1:A:530:MET:CB	4:8:354:GLN:HG3	2.36	0.54
1:D:38:VAL:CB	1:D:52:ILE:HD11	2.38	0.54
1:D:78:PHE:HB3	1:D:98:HIS:NE2	2.22	0.54
1:D:218:LEU:CD2	1:D:222:ILE:CG1	2.86	0.54
1:D:305:ILE:HG22	1:D:312:TYR:CZ	2.43	0.54
1:D:819:ASN:CB	2:E:90:GLY:O	2.55	0.54
1:G:97:LEU:CD2	1:G:712:PRO:CA	2.83	0.54
1:G:148:ARG:NE	1:G:764:MLY:HH21	2.23	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CE2	2.42	0.54
1:G:470:PHE:O	1:G:473:ASN:ND2	2.40	0.54
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.54
1:G:640:LYS:C	4:V:23:GLY:C	2.75	0.54
1:G:817:GLN:CB	2:H:127:ARG:HD3	2.21	0.54
2:H:117:LEU:CG	2:H:147:ASN:OD1	2.53	0.54
1:J:22:LYS:O	1:J:26:GLU:HG3	2.07	0.54
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:493:HIS:ND1	1:J:514:ASP:OD2	2.41	0.54
1:J:791:GLN:O	1:J:794:CYS:HB2	2.08	0.54
1:M:295:MLY:CD	1:M:332:MET:HE2	2.37	0.54
1:M:493:HIS:ND1	1:M:514:ASP:OD2	2.41	0.54
1:M:579:PHE:HE1	1:M:581:LEU:HD13	1.72	0.54
1:P:818:TYR:CD1	2:Q:127:ARG:NH1	2.76	0.54
4:V:365:ALA:HB3	4:V:369:ILE:HB	1.88	0.54
4:X:291:LYS:CB	4:Z:244:ASP:CA	2.86	0.54
1:A:295:MLY:CD	1:A:332:MET:HE2	2.37	0.54
1:A:508:ILE:HD11	1:A:759:ALA:HB1	0.54	0.54
1:D:635:GLY:HA3	4:9:334:GLU:CG	2.30	0.54
1:D:723:ARG:CG	1:D:723:ARG:HH11	2.20	0.54
1:G:220:ASP:O	1:G:224:SER:N	2.27	0.54
1:G:493:HIS:ND1	1:G:514:ASP:OD2	2.41	0.54
1:G:571:ALA:O	1:G:572:LYS:CB	2.56	0.54
1:J:10:PHE:O	1:J:12:GLU:N	2.40	0.54
1:J:836:PHE:CE2	2:K:160:GLY:CA	2.90	0.54
3:L:35:ARG:HA	3:L:39:GLN:O	2.07	0.54
3:L:46:ILE:O	3:L:50:LEU:CG	2.47	0.54
1:M:22:LYS:O	1:M:26:GLU:HG3	2.07	0.54
1:M:134:VAL:C	1:M:136:ASN:H	2.16	0.54
1:M:470:PHE:O	1:M:473:ASN:ND2	2.40	0.54
1:M:642:LYS:HA	4:Z:22:ALA:C	2.33	0.54
1:P:38:VAL:CB	1:P:52:ILE:HD11	2.38	0.54
1:P:51:THR:C	1:P:62:VAL:HG13	2.32	0.54
1:P:831:TRP:HE1	2:Q:67:MET:CG	2.20	0.54
4:0:202:THR:CB	4:Y:287:ILE:N	2.69	0.54
4:3:287:ILE:HB	4:5:203:THR:CG2	2.35	0.54
1:A:38:VAL:CB	1:A:52:ILE:HD11	2.38	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CZ	2.43	0.54
1:A:571:ALA:O	1:A:572:LYS:CB	2.56	0.54
1:A:642:LYS:HG2	4:8:21:PHE:C	2.30	0.54
1:D:791:GLN:O	1:D:794:CYS:HB2	2.08	0.54
1:G:10:PHE:O	1:G:12:GLU:N	2.41	0.54
1:G:51:THR:C	1:G:62:VAL:HG13	2.32	0.54
1:G:103:LEU:C	1:G:103:LEU:HD12	2.33	0.54
1:G:404:PRO:CG	1:G:417:GLU:HG3	2.38	0.54
1:G:640:LYS:C	1:G:645:SER:HG	2.15	0.54
1:J:109:ARG:O	1:J:114:MET:N	2.37	0.54
1:J:638:GLY:HA2	4:W:345:ILE:H	1.72	0.54
1:J:757:GLN:HA	1:J:776:GLU:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:791:GLN:HE22	3:L:115:GLY:CA	2.20	0.54
1:J:830:PRO:CG	2:K:67:MET:HE2	2.37	0.54
3:L:123:VAL:O	3:L:127:MET:HG2	2.07	0.54
2:N:156:VAL:HA	2:N:159:HIS:O	2.07	0.54
1:P:103:LEU:C	1:P:103:LEU:HD12	2.33	0.54
1:P:805:ALA:O	1:P:809:ARG:HB2	2.07	0.54
1:A:538:GLU:HG3	4:8:352:PHE:CA	2.38	0.54
1:D:98:HIS:HB3	1:D:100:PRO:CD	2.25	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:295:MLY:CD	1:G:332:MET:HE2	2.38	0.54
1:G:530:MET:HA	4:V:354:GLN:CD	2.11	0.54
1:G:757:GLN:OE1	1:G:772:LEU:CB	2.55	0.54
2:H:146:GLY:O	2:H:147:ASN:ND2	2.41	0.54
1:M:82:PRO:HD2	1:M:85:TYR:HD2	1.72	0.54
1:M:135:TYR:HD2	1:M:191:ARG:HD3	1.73	0.54
1:M:551:MLY:N	4:1:46:GLY:O	2.41	0.54
1:M:638:GLY:HA2	4:Z:345:ILE:H	1.72	0.54
1:P:799:MET:SD	3:R:32:ASP:OD2	2.65	0.54
1:P:839:MLY:HH13	2:Q:159:HIS:CD2	2.43	0.54
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.88	0.54
4:8:365:ALA:HB3	4:8:369:ILE:HB	1.88	0.54
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.53
1:A:649:VAL:CG1	1:A:649:VAL:HA	2.35	0.53
1:D:579:PHE:HE1	1:D:581:LEU:HD13	1.72	0.53
1:D:649:VAL:HA	1:D:649:VAL:HG23	1.82	0.53
1:G:135:TYR:HD2	1:G:191:ARG:HG2	1.73	0.53
1:G:503:TYR:CZ	1:G:711:PHE:HD2	2.11	0.53
1:G:794:CYS:O	1:G:798:LEU:N	2.37	0.53
1:G:838:ILE:CG1	2:H:54:MET:HE3	2.30	0.53
3:I:92:ARG:HA	3:I:139:TYR:OH	2.08	0.53
1:J:38:VAL:CB	1:J:52:ILE:HD11	2.38	0.53
1:J:51:THR:C	1:J:62:VAL:HG13	2.32	0.53
1:J:630:ALA:HA	4:W:25:ASP:OD2	2.07	0.53
1:M:126:VAL:HG13	1:M:675:ILE:HG22	1.90	0.53
1:M:725:ARG:HG3	1:M:733:PRO:CA	2.36	0.53
1:M:829:TRP:HH2	2:N:83:MET:HE3	1.74	0.53
2:N:114:LYS:O	2:N:147:ASN:ND2	2.42	0.53
2:N:146:GLY:O	2:N:147:ASN:ND2	2.41	0.53
1:P:135:TYR:HD2	1:P:191:ARG:HD3	1.73	0.53
1:P:154:HIS:CE1	1:P:156:PHE:HD2	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:538:GLU:HG3	4:0:352:PHE:CA	2.38	0.53
1:P:638:GLY:HA2	4:0:345:ILE:H	1.72	0.53
4:4:185:LEU:HD23	4:4:306:TYR:OH	2.08	0.53
1:A:97:LEU:CD2	1:A:712:PRO:C	2.81	0.53
1:A:553:MLY:O	4:V:48:GLY:CA	2.56	0.53
1:A:584:TYR:CD1	1:A:585:ALA:N	2.77	0.53
1:A:752:ASP:CB	1:A:782:MLY:HD3	2.38	0.53
1:A:797:PHE:CE1	3:C:146:ILE:C	2.86	0.53
1:A:813:ILE:CG2	2:B:127:ARG:CG	2.85	0.53
2:B:146:GLY:O	2:B:147:ASN:ND2	2.41	0.53
3:C:92:ARG:HA	3:C:139:TYR:OH	2.09	0.53
1:D:103:LEU:C	1:D:103:LEU:HD12	2.33	0.53
3:F:92:ARG:HA	3:F:139:TYR:OH	2.08	0.53
1:G:135:TYR:HD2	1:G:191:ARG:HD3	1.73	0.53
1:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.53
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.53
1:J:218:LEU:CD2	1:J:222:ILE:CG1	2.86	0.53
1:J:538:GLU:HG3	4:W:352:PHE:CA	2.38	0.53
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.53
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	0.53
1:M:571:ALA:O	1:M:572:LYS:CB	2.56	0.53
1:M:791:GLN:OE1	3:O:116:GLU:HG3	2.08	0.53
1:P:32:PHE:CD1	1:P:83:PRO:HD3	2.44	0.53
1:P:502:GLU:OE2	1:P:760:PHE:O	2.25	0.53
1:P:584:TYR:CD1	1:P:585:ALA:N	2.77	0.53
1:P:819:ASN:OD1	2:Q:90:GLY:O	2.25	0.53
4:0:202:THR:HG23	4:Y:287:ILE:H	1.72	0.53
1:A:404:PRO:CG	1:A:417:GLU:HG3	2.38	0.53
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	0.53
1:D:768:MLY:O	1:D:771:LEU:CG	2.55	0.53
1:G:734:GLU:OE2	3:I:109:HIS:CE1	2.61	0.53
1:G:754:ASP:O	1:G:776:GLU:OE1	2.25	0.53
1:G:791:GLN:O	1:G:794:CYS:HB2	2.08	0.53
1:G:795:ARG:CB	3:I:35:ARG:CZ	2.86	0.53
1:G:838:ILE:HG13	2:H:54:MET:CE	2.38	0.53
1:J:135:TYR:HD2	1:J:191:ARG:HD3	1.73	0.53
1:M:10:PHE:O	1:M:12:GLU:N	2.40	0.53
1:M:32:PHE:CD1	1:M:83:PRO:HD3	2.44	0.53
1:M:277:PHE:CG	1:M:278:GLN:N	2.76	0.53
1:M:404:PRO:CG	1:M:417:GLU:HG3	2.38	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:506:GLU:HG2	1:P:759:ALA:CA	2.38	0.53
1:P:571:ALA:O	1:P:572:LYS:CB	2.56	0.53
1:P:795:ARG:HH22	3:R:116:GLU:CD	2.12	0.53
2:Q:146:GLY:O	2:Q:147:ASN:ND2	2.41	0.53
4:2:322:PRO:C	4:4:244:ASP:HB2	2.33	0.53
4:V:324:THR:HG22	4:X:247:VAL:HG13	1.91	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HD3	1.74	0.53
1:A:149:GLN:HG2	1:A:719:ASP:N	2.15	0.53
1:A:218:LEU:N	1:A:221:GLN:HG2	2.24	0.53
1:A:642:LYS:HA	4:8:22:ALA:C	2.33	0.53
1:A:765:VAL:HG12	1:A:766:PHE:N	2.22	0.53
2:B:130:PRO:O	2:B:131:GLU:C	2.52	0.53
1:D:546:THR:HB	1:D:549:SER:H	1.71	0.53
1:D:553:MLY:O	4:W:48:GLY:CA	2.56	0.53
1:D:819:ASN:CA	2:E:90:GLY:O	2.56	0.53
1:G:251:ARG:HB2	1:G:264:ASP:HB2	1.91	0.53
1:G:723:ARG:HH11	1:G:723:ARG:CG	2.20	0.53
1:G:815:CYS:SG	2:H:92:ASP:OD1	2.66	0.53
1:J:571:ALA:O	1:J:572:LYS:CB	2.56	0.53
1:J:733:PRO:O	1:J:737:PHE:CE1	2.53	0.53
1:M:791:GLN:O	1:M:794:CYS:HB2	2.08	0.53
1:P:548:THR:CB	4:2:49:GLN:N	2.64	0.53
1:P:791:GLN:O	1:P:794:CYS:HB2	2.08	0.53
1:P:795:ARG:HH22	3:R:116:GLU:HG2	1.62	0.53
4:X:291:LYS:HB3	4:Z:244:ASP:HB3	0.64	0.53
1:D:529:PRO:HB2	4:9:354:GLN:HA	1.91	0.53
1:D:584:TYR:CD1	1:D:585:ALA:N	2.77	0.53
1:D:661:MET:O	1:D:665:ARG:HG3	2.09	0.53
1:D:732:ILE:HG23	1:D:747:LEU:CD1	1.04	0.53
1:G:538:GLU:HG3	4:V:352:PHE:CA	2.38	0.53
1:G:556:ASP:OD2	4:X:44:MET:HG3	2.08	0.53
1:G:754:ASP:CG	1:G:779:ARG:HB2	2.29	0.53
1:J:149:GLN:HG2	1:J:716:LEU:HD11	1.89	0.53
1:J:404:PRO:CG	1:J:417:GLU:HG3	2.38	0.53
1:J:819:ASN:ND2	2:K:92:ASP:CG	2.66	0.53
1:M:643:GLY:N	4:Z:24:ASP:CA	2.46	0.53
1:M:661:MET:O	1:M:665:ARG:HG3	2.09	0.53
1:M:732:ILE:HG23	1:M:747:LEU:CD1	1.05	0.53
1:M:732:ILE:CG2	1:M:747:LEU:HD11	1.26	0.53
1:M:765:VAL:HG12	1:M:766:PHE:N	2.22	0.53
1:P:220:ASP:O	1:P:224:SER:N	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:404:PRO:CG	1:P:417:GLU:HG3	2.38	0.53
1:P:552:ASN:HB3	4:2:41:GLN:NE2	2.23	0.53
1:P:642:LYS:HA	4:0:22:ALA:C	2.33	0.53
1:P:739:ASP:CB	1:P:742:LYS:CB	2.81	0.53
4:7:185:LEU:HD23	4:7:306:TYR:OH	2.09	0.53
4:W:288:ASP:H	4:Y:204:ALA:H	1.56	0.53
1:A:42:HIS:HB3	1:A:45:GLN:O	2.09	0.53
1:A:529:PRO:HB2	4:8:354:GLN:HA	1.91	0.53
1:A:836:PHE:CE1	2:B:159:HIS:HA	2.43	0.53
2:B:149:ASP:CG	2:B:150:TYR:N	2.49	0.53
1:D:134:VAL:C	1:D:136:ASN:H	2.16	0.53
1:D:277:PHE:CG	1:D:278:GLN:N	2.76	0.53
1:D:404:PRO:CG	1:D:417:GLU:HG3	2.38	0.53
1:D:723:ARG:NH2	1:D:779:ARG:HH21	2.06	0.53
1:D:765:VAL:HG12	1:D:766:PHE:N	2.22	0.53
1:D:800:ARG:C	3:F:149:VAL:CG2	2.74	0.53
1:G:661:MET:O	1:G:665:ARG:HG3	2.09	0.53
1:G:795:ARG:CZ	3:I:116:GLU:CG	2.82	0.53
1:G:796:GLY:HA2	3:I:35:ARG:CZ	2.36	0.53
1:G:831:TRP:NE1	2:H:67:MET:CG	2.72	0.53
3:I:46:ILE:O	3:I:50:LEU:CG	2.47	0.53
1:J:218:LEU:N	1:J:221:GLN:HG2	2.24	0.53
1:J:710:GLY:O	1:J:772:LEU:CD2	2.55	0.53
1:J:795:ARG:HE	3:L:116:GLU:HB3	1.73	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:584:TYR:CD1	1:M:585:ALA:N	2.77	0.53
1:P:769:ALA:CA	1:P:770:GLY:N	2.71	0.53
2:Q:114:LYS:O	2:Q:147:ASN:ND2	2.41	0.53
4:0:246:GLN:HG2	4:Y:325:MET:CE	2.38	0.53
4:2:185:LEU:HD23	4:2:306:TYR:OH	2.09	0.53
4:8:185:LEU:HD23	4:8:306:TYR:OH	2.08	0.53
4:X:324:THR:CB	4:Z:247:VAL:N	2.66	0.53
1:A:103:LEU:C	1:A:103:LEU:HD12	2.33	0.53
1:A:794:CYS:O	1:A:798:LEU:N	2.37	0.53
1:D:42:HIS:HB3	1:D:45:GLN:O	2.09	0.53
1:D:135:TYR:CD2	1:D:191:ARG:HG2	2.44	0.53
1:D:783:LEU:O	1:D:787:ILE:N	2.28	0.53
1:G:32:PHE:CD1	1:G:83:PRO:HD3	2.44	0.53
1:G:95:THR:HA	1:G:713:SER:CB	2.39	0.53
1:G:277:PHE:CG	1:G:278:GLN:N	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:629:GLU:CA	1:G:643:GLY:C	2.73	0.53
1:J:32:PHE:CD1	1:J:83:PRO:HD3	2.44	0.53
1:M:42:HIS:HB3	1:M:45:GLN:O	2.09	0.53
1:M:529:PRO:HB2	4:Z:354:GLN:HA	1.91	0.53
1:M:530:MET:HA	4:Z:354:GLN:CD	2.11	0.53
1:P:148:ARG:HH21	1:P:764:MLY:HH21	1.72	0.53
1:P:218:LEU:N	1:P:221:GLN:HG2	2.24	0.53
1:P:630:ALA:HA	4:0:25:ASP:OD2	2.07	0.53
1:P:649:VAL:CG1	1:P:649:VAL:HA	2.35	0.53
4:9:185:LEU:HD23	4:9:306:TYR:OH	2.09	0.53
1:A:121:LEU:HG	1:A:764:MLY:HH21	1.91	0.53
1:A:505:MLY:CD	1:A:762:HIS:CB	2.70	0.53
1:A:753:VAL:HG12	1:A:775:LEU:CD2	2.39	0.53
1:D:493:HIS:ND1	1:D:514:ASP:OD2	2.41	0.53
1:D:507:GLY:O	1:D:761:GLY:CA	2.57	0.53
2:E:129:THR:O	2:E:133:ILE:HG13	2.09	0.53
1:G:636:LYS:HB2	4:V:334:GLU:OE1	2.09	0.53
1:J:661:MET:O	1:J:665:ARG:HG3	2.09	0.53
3:L:52:ASN:HB2	3:L:53:PRO:CD	2.28	0.53
4:0:112:PRO:HG3	4:1:195:GLU:CA	2.23	0.53
4:0:185:LEU:HD23	4:0:306:TYR:OH	2.09	0.53
4:0:287:ILE:CG2	4:2:203:THR:HG21	2.32	0.53
4:Y:185:LEU:HD23	4:Y:306:TYR:OH	2.09	0.53
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	0.53
1:A:135:TYR:CD2	1:A:191:ARG:HG2	2.44	0.53
1:A:156:PHE:HD1	1:A:195:TYR:CD1	2.27	0.53
1:A:505:MLY:HG3	1:A:741:LYS:HZ3	1.58	0.53
1:A:831:TRP:CZ2	2:B:50:THR:HB	2.34	0.53
1:A:831:TRP:CE2	2:B:51:PHE:CZ	2.96	0.53
1:A:836:PHE:CZ	2:B:159:HIS:C	2.87	0.53
1:D:32:PHE:CD1	1:D:83:PRO:HD3	2.43	0.53
1:D:508:ILE:HD13	1:D:766:PHE:CG	2.44	0.53
1:D:739:ASP:CB	1:D:742:LYS:CB	2.81	0.53
1:G:642:LYS:CG	4:V:22:ALA:HA	2.37	0.53
1:J:251:ARG:HB2	1:J:264:ASP:HB2	1.91	0.53
1:J:404:PRO:HG3	1:J:417:GLU:HG3	1.91	0.53
1:J:584:TYR:CD1	1:J:585:ALA:N	2.77	0.53
1:J:640:LYS:C	1:J:645:SER:HG	2.09	0.53
2:K:114:LYS:O	2:K:147:ASN:ND2	2.41	0.53
2:K:129:THR:O	2:K:133:ILE:HG13	2.09	0.53
3:L:92:ARG:HA	3:L:139:TYR:OH	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:84:MLY:HB3	1:M:723:ARG:CZ	2.31	0.53
1:M:355:THR:OG1	1:M:437:MET:HE1	2.09	0.53
1:M:404:PRO:HG3	1:M:417:GLU:HG3	1.91	0.53
1:M:732:ILE:HG21	1:M:747:LEU:CD1	0.63	0.53
2:N:140:PHE:O	2:N:141:PRO:C	2.33	0.53
3:O:52:ASN:HB2	3:O:53:PRO:CD	2.28	0.53
1:P:156:PHE:HD1	1:P:195:TYR:CD1	2.27	0.53
1:P:404:PRO:HG3	1:P:417:GLU:HG3	1.91	0.53
1:P:418:THR:CB	1:P:421:GLU:HG3	2.37	0.53
1:P:481:ASN:N	1:P:481:ASN:ND2	2.51	0.53
1:P:529:PRO:HB2	4:0:354:GLN:HA	1.91	0.53
1:P:795:ARG:HD2	3:R:35:ARG:HH12	1.73	0.53
1:P:806:MET:HA	1:P:809:ARG:CD	2.39	0.53
4:0:205:GLU:HG3	4:Y:287:ILE:HD13	1.88	0.53
4:1:244:ASP:HA	4:Z:324:THR:H	1.73	0.53
4:3:185:LEU:HD23	4:3:306:TYR:OH	2.09	0.53
3:C:104:GLY:HA2	3:C:137:ILE:HD11	1.91	0.53
1:D:135:TYR:HD2	1:D:191:ARG:HD3	1.73	0.53
1:D:218:LEU:N	1:D:221:GLN:HG2	2.24	0.53
1:G:218:LEU:N	1:G:221:GLN:HG2	2.24	0.53
1:G:355:THR:OG1	1:G:437:MET:HE1	2.10	0.53
1:G:506:GLU:HG2	1:G:759:ALA:HB1	1.89	0.53
2:H:117:LEU:CG	2:H:147:ASN:CB	2.76	0.53
1:J:98:HIS:HB3	1:J:100:PRO:CD	2.25	0.53
1:M:800:ARG:HD2	3:O:149:VAL:HG22	1.91	0.53
1:P:796:GLY:CA	3:R:35:ARG:CD	2.71	0.53
4:0:243:PRO:HB2	4:Y:291:LYS:HE3	1.90	0.53
4:X:185:LEU:HD23	4:X:306:TYR:OH	2.09	0.53
1:A:22:LYS:O	1:A:26:GLU:N	2.29	0.52
1:A:92:ALA:O	1:A:714:ARG:N	2.37	0.52
1:A:355:THR:OG1	1:A:437:MET:HE1	2.10	0.52
1:D:154:HIS:CE1	1:D:156:PHE:HD2	2.27	0.52
1:D:214:MET:C	1:D:340:ILE:CD1	2.82	0.52
1:D:404:PRO:HG3	1:D:417:GLU:HG3	1.91	0.52
1:D:538:GLU:HG3	4:9:352:PHE:CA	2.38	0.52
1:D:556:ASP:HB3	4:W:43:VAL:HG12	1.91	0.52
1:D:791:GLN:CD	3:F:115:GLY:HA3	2.22	0.52
1:D:831:TRP:NE1	2:E:67:MET:SD	2.80	0.52
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.52
1:G:584:TYR:CD1	1:G:585:ALA:N	2.77	0.52
1:J:529:PRO:HB2	4:W:354:GLN:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:739:ASP:CB	1:J:742:LYS:CB	2.81	0.52
2:N:129:THR:O	2:N:133:ILE:HG13	2.09	0.52
1:P:63:MLY:HG3	1:P:64:THR:H	1.75	0.52
1:P:135:TYR:CD2	1:P:191:ARG:HG2	2.44	0.52
2:Q:114:LYS:HA	2:Q:147:ASN:HD22	1.74	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
4:Z:185:LEU:HD23	4:Z:306:TYR:OH	2.09	0.52
1:A:505:MLY:H	1:A:762:HIS:CD2	2.25	0.52
1:A:555:TYR:N	4:V:48:GLY:N	2.58	0.52
1:A:768:MLY:CA	1:A:771:LEU:HB2	2.26	0.52
1:A:791:GLN:O	1:A:794:CYS:HB2	2.08	0.52
2:B:114:LYS:O	2:B:147:ASN:ND2	2.41	0.52
1:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.52
2:E:114:LYS:O	2:E:147:ASN:ND2	2.41	0.52
1:G:63:MLY:HG3	1:G:64:THR:H	1.75	0.52
1:G:838:ILE:C	1:G:840:PRO:HD2	2.34	0.52
3:I:53:PRO:HB2	3:I:55:LYS:HG3	1.91	0.52
1:J:135:TYR:CD2	1:J:191:ARG:HG2	2.44	0.52
1:J:197:ALA:O	1:J:201:ALA:HB2	2.10	0.52
1:J:567:LYS:HZ2	4:Y:92:ASN:HA	1.70	0.52
1:J:642:LYS:CG	4:W:22:ALA:CA	2.80	0.52
1:J:838:ILE:C	1:J:840:PRO:HD2	2.35	0.52
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.52
1:M:154:HIS:CE1	1:M:156:PHE:HD2	2.26	0.52
1:M:642:LYS:CG	4:Z:22:ALA:HA	2.37	0.52
3:O:92:ARG:HA	3:O:139:TYR:OH	2.08	0.52
1:P:197:ALA:O	1:P:201:ALA:HB2	2.09	0.52
1:P:661:MET:O	1:P:665:ARG:HG3	2.09	0.52
1:P:727:LEU:CG	1:P:779:ARG:HE	2.23	0.52
1:P:797:PHE:CZ	3:R:146:ILE:HG23	2.44	0.52
2:Q:129:THR:O	2:Q:133:ILE:HG13	2.09	0.52
3:R:53:PRO:HB2	3:R:55:LYS:HG3	1.91	0.52
3:R:92:ARG:HA	3:R:139:TYR:OH	2.08	0.52
4:V:180:LEU:HD22	4:V:267:ILE:HD11	1.92	0.52
4:V:185:LEU:HD23	4:V:306:TYR:OH	2.09	0.52
1:A:93:MET:O	1:A:713:SER:CB	2.57	0.52
1:A:556:ASP:HB3	4:V:43:VAL:HG12	1.91	0.52
1:A:579:PHE:CD2	1:A:592:ILE:HD11	2.40	0.52
1:D:494:HIS:O	1:D:498:LEU:HB2	2.09	0.52
1:G:404:PRO:HG3	1:G:417:GLU:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.52
1:J:277:PHE:CG	1:J:278:GLN:N	2.76	0.52
1:M:538:GLU:HG3	4:Z:352:PHE:CA	2.38	0.52
1:M:545:ALA:CB	4:1:45:VAL:CG1	2.85	0.52
1:M:649:VAL:HA	1:M:649:VAL:HG23	1.83	0.52
1:P:251:ARG:HB2	1:P:264:ASP:HB2	1.91	0.52
4:1:185:LEU:HD23	4:1:306:TYR:OH	2.09	0.52
4:4:180:LEU:HD22	4:4:267:ILE:HD11	1.92	0.52
4:W:185:LEU:HD23	4:W:306:TYR:OH	2.09	0.52
1:A:109:ARG:HD3	1:A:117:THR:HB	1.92	0.52
1:A:149:GLN:CD	1:A:718:ALA:H	2.17	0.52
1:A:154:HIS:CE1	1:A:156:PHE:HD2	2.26	0.52
1:A:277:PHE:CG	1:A:278:GLN:N	2.76	0.52
1:A:636:LYS:HB2	4:8:334:GLU:OE1	2.08	0.52
3:C:53:PRO:HB2	3:C:55:LYS:HG3	1.91	0.52
3:C:110:VAL:HG13	3:C:114:LEU:HD12	1.91	0.52
1:D:506:GLU:O	1:D:762:HIS:HB2	2.09	0.52
1:D:636:LYS:HB2	4:9:334:GLU:OE1	2.09	0.52
1:D:642:LYS:CG	4:9:22:ALA:CA	2.80	0.52
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	0.52
1:G:579:PHE:CD2	1:G:592:ILE:HD11	2.40	0.52
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.52
1:G:818:TYR:CB	2:H:90:GLY:HA3	2.37	0.52
2:H:114:LYS:HA	2:H:147:ASN:HD22	1.75	0.52
2:H:114:LYS:O	2:H:147:ASN:ND2	2.41	0.52
1:J:156:PHE:HD1	1:J:195:TYR:CD1	2.27	0.52
1:J:418:THR:CB	1:J:421:GLU:HG3	2.37	0.52
1:J:732:ILE:HG23	1:J:747:LEU:CD1	1.05	0.52
2:K:121:LEU:CA	2:K:128:PHE:CG	2.89	0.52
3:L:110:VAL:HG13	3:L:114:LEU:HD12	1.92	0.52
1:M:786:ILE:C	1:M:787:ILE:C	2.78	0.52
1:M:839:MLY:HH21	2:N:158:THR:CG2	2.40	0.52
2:N:130:PRO:O	2:N:131:GLU:C	2.52	0.52
1:P:42:HIS:HB3	1:P:45:GLN:O	2.09	0.52
1:P:214:MET:C	1:P:340:ILE:CD1	2.82	0.52
1:P:491:PHE:HD1	1:P:671:PHE:CE2	2.27	0.52
1:P:544:LYS:NZ	4:2:45:VAL:HG22	2.23	0.52
1:P:765:VAL:HG12	1:P:766:PHE:N	2.22	0.52
4:3:180:LEU:HD22	4:3:267:ILE:HD11	1.92	0.52
4:8:180:LEU:HD22	4:8:267:ILE:HD11	1.92	0.52
1:A:661:MET:O	1:A:665:ARG:HG3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:ILE:C	1:A:840:PRO:HD2	2.35	0.52
1:D:732:ILE:H	1:D:733:PRO:HD2	1.74	0.52
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.52
1:G:836:PHE:CZ	2:H:159:HIS:HA	2.44	0.52
3:I:104:GLY:HA2	3:I:137:ILE:HD11	1.92	0.52
1:J:22:LYS:O	1:J:26:GLU:N	2.30	0.52
1:J:813:ILE:HG23	2:K:128:PHE:CE1	2.44	0.52
1:J:817:GLN:OE1	2:K:127:ARG:HD2	2.06	0.52
3:L:104:GLY:HA2	3:L:137:ILE:HD11	1.92	0.52
1:M:786:ILE:C	1:M:790:THR:N	2.59	0.52
1:P:636:LYS:HB2	4:0:334:GLU:OE1	2.09	0.52
4:0:180:LEU:HD22	4:0:267:ILE:HD11	1.92	0.52
4:1:180:LEU:HD22	4:1:267:ILE:HD11	1.92	0.52
4:3:285:CYS:O	4:3:290:ARG:NH1	2.43	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
4:9:287:ILE:HG22	4:W:204:ALA:HB3	1.91	0.52
4:V:285:CYS:O	4:V:290:ARG:NH1	2.43	0.52
1:A:63:MLY:HG3	1:A:64:THR:H	1.75	0.52
1:A:214:MET:C	1:A:340:ILE:CD1	2.82	0.52
1:A:218:LEU:CD2	1:A:222:ILE:CG1	2.85	0.52
1:A:640:LYS:C	1:A:645:SER:HG	2.14	0.52
1:D:156:PHE:HD1	1:D:195:TYR:CD1	2.27	0.52
1:D:491:PHE:HD1	1:D:671:PHE:CE2	2.27	0.52
1:D:831:TRP:CZ3	2:E:34:ILE:HG12	2.44	0.52
2:E:121:LEU:CA	2:E:128:PHE:CG	2.89	0.52
1:G:154:HIS:CE1	1:G:156:PHE:HD2	2.26	0.52
2:H:129:THR:O	2:H:133:ILE:HG13	2.09	0.52
1:J:41:VAL:HG13	1:J:42:HIS:N	2.25	0.52
1:J:214:MET:C	1:J:340:ILE:CD1	2.82	0.52
1:M:494:HIS:O	1:M:498:LEU:HB2	2.09	0.52
2:N:114:LYS:N	2:N:146:GLY:O	2.40	0.52
1:P:725:ARG:O	1:P:729:ALA:HA	2.10	0.52
1:P:733:PRO:O	1:P:737:PHE:CE1	2.53	0.52
4:0:205:GLU:HB2	4:Y:287:ILE:HD13	1.91	0.52
4:5:285:CYS:O	4:5:290:ARG:NH1	2.43	0.52
4:W:285:CYS:O	4:W:290:ARG:NH1	2.43	0.52
4:X:180:LEU:HD22	4:X:267:ILE:HD11	1.92	0.52
1:A:295:MLY:CG	1:A:332:MET:HE2	2.36	0.52
1:A:404:PRO:HG3	1:A:417:GLU:HG3	1.91	0.52
1:D:251:ARG:HB2	1:D:264:ASP:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:355:THR:OG1	1:D:437:MET:HE1	2.10	0.52
1:D:418:THR:CB	1:D:421:GLU:HG3	2.37	0.52
1:D:506:GLU:CG	1:D:764:MLY:CE	2.87	0.52
1:D:507:GLY:CA	1:D:762:HIS:CE1	2.88	0.52
1:D:538:GLU:HA	4:9:349:LEU:CB	2.40	0.52
1:D:708:ARG:HA	1:D:710:GLY:N	2.25	0.52
1:D:818:TYR:CG	2:E:90:GLY:CA	2.82	0.52
1:G:40:VAL:HG13	1:G:41:VAL:O	2.10	0.52
1:G:42:HIS:HB3	1:G:45:GLN:O	2.09	0.52
1:G:529:PRO:HB2	4:V:354:GLN:HA	1.92	0.52
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.52
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.52
1:M:84:MLY:HH13	1:M:724:TYR:CE2	2.42	0.52
1:M:251:ARG:HB2	1:M:264:ASP:HB2	1.91	0.52
1:M:553:MLY:CG	4:1:43:VAL:CB	2.85	0.52
3:R:104:GLY:HA2	3:R:137:ILE:HD11	1.92	0.52
4:1:287:ILE:C	4:3:203:THR:HG22	2.35	0.52
4:7:287:ILE:HG22	4:9:204:ALA:HB3	1.91	0.52
4:Y:180:LEU:HD22	4:Y:267:ILE:HD11	1.92	0.52
4:Z:285:CYS:O	4:Z:290:ARG:NH1	2.43	0.52
1:A:40:VAL:HG13	1:A:41:VAL:O	2.10	0.52
1:A:491:PHE:HD1	1:A:671:PHE:CE2	2.27	0.52
1:A:494:HIS:O	1:A:498:LEU:HB2	2.09	0.52
1:A:642:LYS:CG	4:8:22:ALA:HA	2.38	0.52
1:D:727:LEU:N	1:D:782:MLY:CE	2.59	0.52
1:D:836:PHE:HD2	2:E:161:GLU:OE1	1.92	0.52
1:G:41:VAL:HG13	1:G:42:HIS:N	2.25	0.52
1:G:135:TYR:CD2	1:G:191:ARG:HG2	2.44	0.52
1:G:197:ALA:O	1:G:201:ALA:HB2	2.09	0.52
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.52
1:J:42:HIS:HB3	1:J:45:GLN:O	2.09	0.52
1:J:128:PRO:O	1:J:129:TYR:HB2	2.10	0.52
1:J:154:HIS:CE1	1:J:156:PHE:HD2	2.26	0.52
1:P:40:VAL:HG13	1:P:41:VAL:O	2.10	0.52
1:P:195:TYR:CE2	1:P:199:ILE:CD1	2.93	0.52
2:Q:130:PRO:O	2:Q:131:GLU:C	2.52	0.52
4:3:287:ILE:HG22	4:5:204:ALA:HB3	1.91	0.52
4:9:285:CYS:O	4:9:290:ARG:NH1	2.43	0.52
4:W:180:LEU:HD22	4:W:267:ILE:HD11	1.92	0.52
4:Z:180:LEU:HD22	4:Z:267:ILE:HD11	1.92	0.52
1:A:97:LEU:HD23	1:A:712:PRO:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:HA	4:8:349:LEU:CB	2.39	0.52
1:D:195:TYR:CE2	1:D:199:ILE:CD1	2.93	0.52
1:D:555:TYR:N	4:W:48:GLY:N	2.58	0.52
1:D:725:ARG:O	1:D:729:ALA:HA	2.10	0.52
1:G:109:ARG:HD3	1:G:117:THR:HB	1.92	0.52
1:G:128:PRO:O	1:G:129:TYR:HB2	2.09	0.52
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.52
2:H:114:LYS:N	2:H:146:GLY:O	2.40	0.52
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	0.52
1:J:725:ARG:O	1:J:729:ALA:HA	2.10	0.52
2:K:114:LYS:HA	2:K:147:ASN:HD22	1.74	0.52
1:M:63:MLY:HG3	1:M:64:THR:H	1.74	0.52
1:M:135:TYR:HD2	1:M:191:ARG:CD	2.23	0.52
1:M:218:LEU:N	1:M:221:GLN:HG2	2.24	0.52
1:M:530:MET:HG2	4:Z:354:GLN:HB2	0.57	0.52
1:M:538:GLU:HA	4:Z:349:LEU:CB	2.40	0.52
1:M:579:PHE:CD2	1:M:592:ILE:HD11	2.40	0.52
1:P:98:HIS:HB3	1:P:100:PRO:CD	2.25	0.52
1:P:355:THR:OG1	1:P:437:MET:HE1	2.10	0.52
2:Q:140:PHE:O	2:Q:141:PRO:C	2.33	0.52
4:2:180:LEU:HD22	4:2:267:ILE:HD11	1.92	0.52
1:A:251:ARG:HB2	1:A:264:ASP:HB2	1.91	0.52
1:A:742:LYS:O	1:A:745:GLU:HB2	2.10	0.52
1:D:63:MLY:HG3	1:D:64:THR:H	1.75	0.52
1:D:109:ARG:HD3	1:D:117:THR:HB	1.92	0.52
3:F:100:GLY:O	3:F:138:ASN:HA	2.10	0.52
1:G:94:MET:O	1:G:713:SER:HA	2.09	0.52
1:J:63:MLY:HG3	1:J:64:THR:H	1.74	0.52
1:J:135:TYR:HD2	1:J:191:ARG:CD	2.23	0.52
1:J:232:PHE:CE1	1:J:287:ILE:HD13	2.44	0.52
1:J:355:THR:OG1	1:J:437:MET:HE1	2.09	0.52
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.52
2:K:139:ALA:C	2:K:141:PRO:HD3	2.33	0.52
1:M:221:GLN:HB2	1:M:449:LEU:HD11	1.92	0.52
1:M:491:PHE:HD1	1:M:671:PHE:CE2	2.27	0.52
1:M:636:LYS:HB2	4:Z:334:GLU:OE1	2.09	0.52
1:M:725:ARG:O	1:M:729:ALA:HA	2.10	0.52
1:M:732:ILE:H	1:M:733:PRO:CD	2.23	0.52
2:N:114:LYS:HA	2:N:147:ASN:HD22	1.74	0.52
1:P:210:GLN:C	1:P:211:SER:HG	2.16	0.52
1:P:232:PHE:CE1	1:P:287:ILE:HD13	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:730:SER:CA	3:R:93:VAL:HG22	2.39	0.52
1:P:742:LYS:O	1:P:745:GLU:HB2	2.10	0.52
4:2:285:CYS:O	4:2:290:ARG:NH1	2.43	0.52
4:4:285:CYS:O	4:4:290:ARG:NH1	2.43	0.52
4:7:285:CYS:O	4:7:290:ARG:NH1	2.43	0.52
1:A:135:TYR:HD2	1:A:191:ARG:CD	2.23	0.51
1:A:292:MET:HE2	1:A:309:PRO:HD3	1.93	0.51
1:A:578:HIS:O	1:A:579:PHE:HB3	2.11	0.51
1:A:629:GLU:CA	1:A:643:GLY:C	2.73	0.51
1:D:41:VAL:HG21	1:D:76:GLN:HG3	1.92	0.51
1:D:767:PHE:O	1:D:771:LEU:HD13	1.98	0.51
2:E:112:ILE:HG23	2:E:147:ASN:HB3	1.93	0.51
1:G:214:MET:C	1:G:340:ILE:CD1	2.82	0.51
1:G:494:HIS:O	1:G:498:LEU:HB2	2.09	0.51
1:G:634:GLY:N	4:V:25:ASP:O	2.31	0.51
1:J:40:VAL:HG13	1:J:41:VAL:O	2.10	0.51
1:J:220:ASP:O	1:J:224:SER:N	2.27	0.51
1:J:221:GLN:HB2	1:J:449:LEU:HD11	1.92	0.51
1:J:491:PHE:HD1	1:J:671:PHE:CE2	2.27	0.51
1:J:800:ARG:HB3	3:L:149:VAL:HG11	1.91	0.51
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	0.51
1:M:135:TYR:CD2	1:M:191:ARG:HG2	2.44	0.51
1:P:135:TYR:HD2	1:P:191:ARG:CD	2.23	0.51
1:P:732:ILE:CG2	1:P:747:LEU:HD11	1.26	0.51
1:P:798:LEU:CD1	3:R:126:LEU:HD22	2.30	0.51
4:8:287:ILE:HG22	4:V:204:ALA:HB3	1.91	0.51
4:X:285:CYS:O	4:X:290:ARG:NH1	2.43	0.51
1:A:41:VAL:HG13	1:A:42:HIS:N	2.25	0.51
1:A:232:PHE:CE1	1:A:287:ILE:HD13	2.45	0.51
1:A:408:VAL:CG1	4:8:332:PRO:HB3	2.40	0.51
1:A:530:MET:HG2	4:8:354:GLN:HB2	0.57	0.51
1:A:592:ILE:O	1:A:592:ILE:HG22	2.11	0.51
1:D:732:ILE:H	1:D:733:PRO:CD	2.23	0.51
1:G:232:PHE:CE1	1:G:287:ILE:HD13	2.45	0.51
1:G:830:PRO:HB2	2:H:67:MET:CE	2.30	0.51
1:J:538:GLU:HA	4:W:349:LEU:CB	2.40	0.51
1:M:218:LEU:CD2	1:M:222:ILE:CG1	2.86	0.51
1:M:232:PHE:CE1	1:M:287:ILE:HD13	2.44	0.51
1:M:640:LYS:CA	1:M:645:SER:OG	2.58	0.51
2:N:121:LEU:O	2:N:128:PHE:CG	2.61	0.51
1:P:221:GLN:HB2	1:P:449:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:640:LYS:CA	1:P:645:SER:OG	2.58	0.51
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.85	0.51
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.51
1:A:221:GLN:HB2	1:A:449:LEU:HD11	1.93	0.51
1:A:546:THR:CG2	1:A:548:THR:HB	2.41	0.51
1:A:757:GLN:O	1:A:771:LEU:HD22	2.10	0.51
1:D:40:VAL:HG13	1:D:41:VAL:O	2.10	0.51
1:D:221:GLN:HB2	1:D:449:LEU:HD11	1.92	0.51
1:D:634:GLY:N	4:9:25:ASP:O	2.31	0.51
1:D:726:VAL:C	1:D:785:GLU:HG2	2.35	0.51
1:D:769:ALA:C	1:D:774:LEU:CB	2.79	0.51
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.91	0.51
1:G:801:VAL:CG2	3:I:126:LEU:HD21	2.40	0.51
1:J:195:TYR:CE2	1:J:199:ILE:CD1	2.93	0.51
1:J:212:GLY:O	1:J:213:LYS:HB2	2.10	0.51
1:J:248:MLY:N	1:J:463:ASP:O	2.44	0.51
1:J:817:GLN:CG	2:K:127:ARG:HB2	2.35	0.51
1:M:84:MLY:CA	1:M:723:ARG:CZ	2.85	0.51
1:M:156:PHE:HD1	1:M:195:TYR:CD1	2.27	0.51
1:M:292:MET:HE2	1:M:309:PRO:HD3	1.93	0.51
1:P:248:MLY:N	1:P:463:ASP:O	2.44	0.51
1:P:629:GLU:HG2	1:P:643:GLY:C	2.35	0.51
1:P:838:ILE:C	1:P:840:PRO:HD2	2.35	0.51
3:R:110:VAL:HG13	3:R:114:LEU:HD12	1.92	0.51
1:A:501:GLU:HB3	1:A:762:HIS:ND1	2.19	0.51
3:C:100:GLY:O	3:C:138:ASN:HA	2.11	0.51
1:D:248:MLY:N	1:D:463:ASP:O	2.44	0.51
1:D:742:LYS:O	1:D:745:GLU:HB2	2.10	0.51
1:D:818:TYR:HB2	2:E:90:GLY:C	2.25	0.51
2:E:114:LYS:HA	2:E:147:ASN:HD22	1.74	0.51
1:G:195:TYR:CE2	1:G:199:ILE:CD1	2.93	0.51
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.51
1:G:506:GLU:OE2	1:G:760:PHE:C	2.52	0.51
1:G:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
1:G:546:THR:CG2	1:G:548:THR:HB	2.41	0.51
1:G:742:LYS:O	1:G:745:GLU:HB2	2.10	0.51
1:J:821:ARG:NH1	2:K:127:ARG:NE	2.59	0.51
1:M:109:ARG:HD3	1:M:117:THR:HB	1.92	0.51
1:M:553:MLY:HG2	4:1:43:VAL:HB	1.93	0.51
1:M:642:LYS:HA	4:Z:21:PHE:C	2.36	0.51
1:M:839:MLY:HH13	2:N:159:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:110:VAL:HG13	3:O:114:LEU:HD12	1.92	0.51
1:P:128:PRO:O	1:P:129:TYR:HB2	2.10	0.51
1:P:789:ALA:CB	3:R:81:GLN:NE2	2.74	0.51
4:1:285:CYS:O	4:1:290:ARG:NH1	2.43	0.51
1:A:195:TYR:CE2	1:A:199:ILE:CD1	2.93	0.51
1:A:797:PHE:CE1	3:C:146:ILE:O	2.62	0.51
2:B:114:LYS:HA	2:B:147:ASN:HD22	1.75	0.51
2:B:139:ALA:C	2:B:141:PRO:HD3	2.33	0.51
1:D:232:PHE:CE1	1:D:287:ILE:HD13	2.45	0.51
1:G:411:GLU:H	4:V:333:PRO:CG	2.24	0.51
1:G:418:THR:O	1:G:422:VAL:HG23	2.11	0.51
1:G:675:ILE:CG2	1:G:676:ILE:N	2.74	0.51
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.51
1:J:818:TYR:C	2:K:90:GLY:HA3	2.35	0.51
1:J:819:ASN:CG	2:K:90:GLY:O	2.53	0.51
1:M:540:CYS:C	4:Z:349:LEU:HD21	2.36	0.51
1:M:556:ASP:OD2	4:1:49:GLN:CD	2.51	0.51
1:P:212:GLY:O	1:P:213:LYS:HB2	2.11	0.51
1:P:310:TYR:CE2	1:P:320:ILE:CD1	2.94	0.51
1:P:494:HIS:O	1:P:498:LEU:HB2	2.09	0.51
1:P:732:ILE:HG23	1:P:747:LEU:CD1	1.04	0.51
1:P:791:GLN:CD	3:R:116:GLU:H	2.17	0.51
1:P:804:ARG:C	1:P:808:GLU:H	2.17	0.51
4:Y:285:CYS:O	4:Y:290:ARG:NH1	2.43	0.51
1:A:248:MLY:N	1:A:463:ASP:O	2.44	0.51
1:A:759:ALA:O	1:A:766:PHE:N	2.32	0.51
1:D:197:ALA:O	1:D:201:ALA:HB2	2.10	0.51
1:D:237:THR:O	1:D:240:ASN:O	2.29	0.51
1:D:411:GLU:H	4:9:333:PRO:CG	2.24	0.51
1:D:831:TRP:CE3	2:E:34:ILE:HD13	2.46	0.51
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.51
1:G:221:GLN:HB2	1:G:449:LEU:HD11	1.93	0.51
1:G:292:MET:HE2	1:G:309:PRO:HD3	1.93	0.51
1:G:732:ILE:HG23	1:G:747:LEU:CD1	1.04	0.51
1:J:202:SER:HB2	1:J:207:LYS:NZ	2.26	0.51
1:J:592:ILE:HG22	1:J:592:ILE:O	2.10	0.51
1:J:640:LYS:CA	1:J:645:SER:OG	2.58	0.51
1:J:687:GLU:O	1:J:691:VAL:HG23	2.11	0.51
1:M:128:PRO:O	1:M:129:TYR:HB2	2.10	0.51
1:M:289:TYR:OH	1:M:315:VAL:O	2.27	0.51
4:0:285:CYS:O	4:0:290:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:VAL:CG1	1:A:39:PHE:N	2.74	0.51
1:A:418:THR:O	1:A:422:VAL:HG23	2.11	0.51
1:A:831:TRP:CE3	2:B:34:ILE:HD13	2.46	0.51
1:D:41:VAL:HG13	1:D:42:HIS:N	2.25	0.51
1:D:481:ASN:N	1:D:481:ASN:ND2	2.51	0.51
2:E:117:LEU:CG	2:E:147:ASN:CB	2.76	0.51
1:G:38:VAL:CG1	1:G:39:PHE:N	2.74	0.51
1:G:84:MLY:CB	1:G:723:ARG:HD2	2.41	0.51
1:G:248:MLY:N	1:G:463:ASP:O	2.44	0.51
1:G:400:ALA:HB1	1:G:606:THR:HG22	1.93	0.51
1:G:557:GLU:CB	4:X:47:MET:C	2.50	0.51
1:G:578:HIS:O	1:G:579:PHE:HB3	2.11	0.51
3:I:110:VAL:HG13	3:I:114:LEU:HD12	1.92	0.51
1:J:84:MLY:HH23	1:J:719:ASP:O	2.08	0.51
1:J:418:THR:O	1:J:422:VAL:HG23	2.11	0.51
1:J:642:LYS:HA	4:W:21:PHE:C	2.36	0.51
1:M:40:VAL:HG13	1:M:41:VAL:O	2.10	0.51
1:M:195:TYR:CE2	1:M:199:ILE:CD1	2.93	0.51
1:M:212:GLY:O	1:M:213:LYS:HB2	2.11	0.51
1:M:214:MET:C	1:M:340:ILE:CD1	2.82	0.51
1:M:418:THR:O	1:M:422:VAL:HG23	2.11	0.51
1:M:541:MET:SD	4:Z:346:LEU:O	2.48	0.51
1:M:592:ILE:HG22	1:M:592:ILE:O	2.11	0.51
1:M:732:ILE:H	1:M:733:PRO:HD2	1.74	0.51
1:M:817:GLN:OE1	2:N:127:ARG:HD2	2.02	0.51
1:M:836:PHE:CD2	2:N:160:GLY:N	2.79	0.51
1:M:838:ILE:C	1:M:840:PRO:HD2	2.35	0.51
3:O:53:PRO:HB2	3:O:55:LYS:HG3	1.91	0.51
3:O:100:GLY:O	3:O:138:ASN:HA	2.10	0.51
1:P:41:VAL:HG13	1:P:42:HIS:N	2.25	0.51
1:P:418:THR:O	1:P:422:VAL:HG23	2.11	0.51
1:A:128:PRO:O	1:A:129:TYR:HB2	2.09	0.51
1:A:400:ALA:HB1	1:A:606:THR:HG22	1.92	0.51
1:A:646:PHE:CE2	1:A:652:LEU:CD2	2.87	0.51
1:A:791:GLN:OE1	3:C:116:GLU:N	2.42	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:400:ALA:HB1	1:D:606:THR:HG22	1.92	0.51
1:D:592:ILE:O	1:D:592:ILE:HG22	2.10	0.51
2:E:163:ALA:O	2:K:21:GLU:CA	2.58	0.51
1:G:267:THR:HG21	1:G:438:PHE:HE2	1.76	0.51
1:G:311:ASP:HB2	1:G:312:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:755:HIS:N	1:J:780:ASP:OD2	2.43	0.51
2:K:114:LYS:N	2:K:146:GLY:O	2.40	0.51
1:M:197:ALA:O	1:M:201:ALA:HB2	2.10	0.51
1:M:798:LEU:HD21	3:O:126:LEU:CG	2.38	0.51
1:M:806:MET:CA	1:M:809:ARG:HD2	2.40	0.51
1:P:592:ILE:HG22	1:P:592:ILE:O	2.10	0.51
4:0:287:ILE:HG12	4:2:203:THR:HB	1.93	0.51
4:1:204:ALA:HB3	4:Z:287:ILE:HG22	1.91	0.51
1:A:197:ALA:O	1:A:201:ALA:HB2	2.09	0.51
1:D:128:PRO:O	1:D:129:TYR:HB2	2.09	0.51
1:D:218:LEU:N	1:D:221:GLN:CG	2.74	0.51
1:D:687:GLU:O	1:D:691:VAL:HG23	2.11	0.51
1:D:723:ARG:NE	1:D:779:ARG:HG3	2.25	0.51
1:D:831:TRP:CE2	2:E:51:PHE:CE1	2.94	0.51
1:G:41:VAL:HG21	1:G:76:GLN:HG3	1.93	0.51
1:G:97:LEU:HD21	1:G:712:PRO:CA	2.41	0.51
1:G:632:GLY:HA3	1:G:643:GLY:N	2.17	0.51
1:J:41:VAL:HG21	1:J:76:GLN:HG3	1.93	0.51
1:M:169:ASP:N	1:M:169:ASP:OD1	2.44	0.51
1:M:291:ILE:HA	1:M:331:LEU:CD1	2.39	0.51
1:M:742:LYS:O	1:M:745:GLU:HB2	2.10	0.51
4:1:204:ALA:N	4:Z:287:ILE:CG2	2.68	0.51
4:8:285:CYS:O	4:8:290:ARG:NH1	2.43	0.51
4:X:287:ILE:HG13	4:Z:202:THR:HG23	1.93	0.51
1:A:311:ASP:HB2	1:A:312:TYR:CE1	2.46	0.51
1:A:800:ARG:HH21	3:C:40:ASN:CG	2.12	0.51
1:D:38:VAL:CG1	1:D:39:PHE:N	2.74	0.51
1:D:578:HIS:O	1:D:579:PHE:HB3	2.10	0.51
1:D:629:GLU:HG2	1:D:643:GLY:C	2.35	0.51
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	0.51
1:D:643:GLY:N	4:9:23:GLY:C	2.55	0.51
1:G:135:TYR:HD2	1:G:191:ARG:CD	2.23	0.51
1:G:725:ARG:O	1:G:729:ALA:HA	2.10	0.51
1:J:218:LEU:N	1:J:221:GLN:CG	2.74	0.51
1:J:408:VAL:CG1	4:W:332:PRO:HB3	2.40	0.51
1:J:448:GLN:C	1:J:450:ASP:H	2.19	0.51
1:J:742:LYS:O	1:J:745:GLU:HB2	2.10	0.51
1:M:89:GLU:CD	1:M:153:PRO:HD2	2.36	0.51
1:M:202:SER:HB2	1:M:207:LYS:NZ	2.26	0.51
1:M:218:LEU:N	1:M:221:GLN:CG	2.74	0.51
1:M:237:THR:O	1:M:240:ASN:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:311:ASP:HB2	1:M:312:TYR:CE1	2.46	0.51
1:M:546:THR:CG2	1:M:548:THR:HB	2.41	0.51
1:M:629:GLU:CB	1:M:645:SER:N	2.73	0.51
1:P:89:GLU:CD	1:P:153:PRO:HD2	2.36	0.51
1:P:400:ALA:HB1	1:P:606:THR:HG22	1.93	0.51
1:P:408:VAL:CG1	4:0:332:PRO:HB3	2.40	0.51
1:P:642:LYS:HA	4:0:21:PHE:C	2.36	0.51
1:P:732:ILE:O	1:P:736:GLN:HG3	2.11	0.51
1:A:640:LYS:CA	1:A:645:SER:OG	2.58	0.50
1:D:212:GLY:O	1:D:213:LYS:HB2	2.11	0.50
1:D:530:MET:HG2	4:9:354:GLN:HB2	0.56	0.50
1:D:830:PRO:HB2	2:E:51:PHE:CZ	2.46	0.50
1:G:212:GLY:O	1:G:213:LYS:HB2	2.10	0.50
1:G:429:LEU:O	1:G:433:VAL:HG23	2.11	0.50
1:G:642:LYS:HA	4:V:21:PHE:C	2.36	0.50
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.50
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	0.50
1:J:732:ILE:H	1:J:733:PRO:CD	2.23	0.50
1:J:732:ILE:H	1:J:733:PRO:HD2	1.74	0.50
1:M:38:VAL:CG1	1:M:39:PHE:N	2.74	0.50
1:M:267:THR:HG21	1:M:438:PHE:HE2	1.76	0.50
3:O:104:GLY:HA2	3:O:137:ILE:HD11	1.92	0.50
1:P:22:LYS:O	1:P:26:GLU:N	2.29	0.50
1:P:202:SER:HB2	1:P:207:LYS:NZ	2.26	0.50
4:0:110:LEU:O	4:1:195:GLU:CG	2.59	0.50
1:A:41:VAL:HG21	1:A:76:GLN:HG3	1.93	0.50
1:A:642:LYS:HA	4:8:21:PHE:C	2.36	0.50
1:A:675:ILE:CG2	1:A:676:ILE:N	2.74	0.50
1:A:687:GLU:O	1:A:691:VAL:HG23	2.11	0.50
1:A:725:ARG:O	1:A:729:ALA:HA	2.10	0.50
1:D:109:ARG:O	1:D:114:MET:N	2.37	0.50
1:D:135:TYR:HD2	1:D:191:ARG:CD	2.23	0.50
1:D:546:THR:CG2	1:D:548:THR:HB	2.40	0.50
1:D:800:ARG:CB	3:F:149:VAL:CG2	2.80	0.50
1:D:800:ARG:HD2	3:F:149:VAL:HG13	1.92	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50
1:G:218:LEU:N	1:G:221:GLN:CG	2.74	0.50
1:G:754:ASP:O	1:G:776:GLU:CD	2.55	0.50
1:G:795:ARG:NH2	3:I:116:GLU:CB	2.73	0.50
2:H:137:TRP:CA	2:H:145:ALA:CB	2.82	0.50
1:J:346:ASP:O	1:J:349:THR:HB	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:400:ALA:HB1	1:J:606:THR:HG22	1.93	0.50
1:J:411:GLU:H	4:W:333:PRO:CG	2.24	0.50
1:J:553:MLY:CE	4:Y:45:VAL:HG11	2.32	0.50
1:J:646:PHE:HE2	1:J:652:LEU:CG	2.25	0.50
1:J:732:ILE:O	1:J:736:GLN:HG3	2.12	0.50
1:J:836:PHE:CE2	2:K:160:GLY:HA3	2.45	0.50
1:M:248:MLY:N	1:M:463:ASP:O	2.44	0.50
1:M:732:ILE:O	1:M:736:GLN:HG3	2.11	0.50
1:P:154:HIS:CD2	1:P:155:ILE:H	2.30	0.50
1:P:448:GLN:C	1:P:450:ASP:H	2.19	0.50
1:P:687:GLU:O	1:P:691:VAL:HG23	2.11	0.50
3:R:100:GLY:O	3:R:138:ASN:HA	2.11	0.50
1:A:267:THR:HG21	1:A:438:PHE:HE2	1.76	0.50
1:A:576:GLU:CG	1:A:577:ALA:N	2.44	0.50
2:B:117:LEU:HG	2:B:147:ASN:HB3	1.93	0.50
2:B:129:THR:O	2:B:133:ILE:HG13	2.09	0.50
1:D:346:ASP:O	1:D:349:THR:HB	2.11	0.50
1:D:795:ARG:CG	3:F:35:ARG:HH12	2.25	0.50
1:D:795:ARG:CG	3:F:118:MET:CE	2.45	0.50
1:G:538:GLU:OE1	4:V:351:THR:HB	2.12	0.50
1:G:592:ILE:HG22	1:G:592:ILE:O	2.11	0.50
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	0.50
1:J:506:GLU:HG3	1:J:760:PHE:O	2.11	0.50
1:M:400:ALA:HB1	1:M:606:THR:HG22	1.93	0.50
2:N:112:ILE:HG23	2:N:147:ASN:HB3	1.92	0.50
1:P:429:LEU:O	1:P:433:VAL:HG23	2.12	0.50
1:P:578:HIS:O	1:P:579:PHE:HB3	2.11	0.50
1:P:836:PHE:CD2	2:Q:160:GLY:N	2.79	0.50
4:W:285:CYS:O	4:Y:202:THR:HG22	2.12	0.50
1:A:553:MLY:HG3	4:V:44:MET:O	2.07	0.50
1:D:418:THR:O	1:D:422:VAL:HG23	2.11	0.50
1:D:429:LEU:O	1:D:433:VAL:HG23	2.11	0.50
1:G:830:PRO:HG2	2:H:67:MET:HE2	1.85	0.50
1:J:109:ARG:HD3	1:J:117:THR:HB	1.92	0.50
1:J:756:THR:HA	1:J:776:GLU:OE1	2.11	0.50
1:M:35:MLY:HH21	1:M:778:MET:HA	1.93	0.50
1:M:41:VAL:HG13	1:M:42:HIS:N	2.25	0.50
1:M:429:LEU:O	1:M:433:VAL:HG23	2.12	0.50
1:M:548:THR:O	4:1:47:MET:HG3	2.04	0.50
1:P:148:ARG:CZ	1:P:764:MLY:HH21	2.41	0.50
1:P:237:THR:O	1:P:240:ASN:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:278:GLN:HG3	1:P:318:GLY:H	1.75	0.50
1:P:530:MET:HG2	4:0:354:GLN:HB2	0.57	0.50
1:P:818:TYR:HE1	2:Q:127:ARG:NH2	1.93	0.50
1:P:829:TRP:HH2	2:Q:83:MET:HE3	1.74	0.50
4:8:325:MET:HE2	4:V:244:ASP:HB3	1.94	0.50
1:A:169:ASP:OD1	1:A:169:ASP:N	2.44	0.50
1:A:501:GLU:CB	1:A:762:HIS:CE1	2.85	0.50
1:A:505:MLY:HB3	1:A:762:HIS:N	2.25	0.50
1:A:629:GLU:HG2	1:A:643:GLY:C	2.35	0.50
1:A:732:ILE:HG23	1:A:747:LEU:CD1	1.04	0.50
1:D:646:PHE:HE2	1:D:652:LEU:CG	2.25	0.50
1:D:795:ARG:HD2	3:F:43:ASN:CG	2.36	0.50
2:E:114:LYS:N	2:E:146:GLY:O	2.40	0.50
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	0.50
1:G:237:THR:O	1:G:240:ASN:O	2.29	0.50
1:G:448:GLN:C	1:G:450:ASP:H	2.19	0.50
1:G:732:ILE:H	1:G:733:PRO:HD2	1.74	0.50
1:J:154:HIS:CD2	1:J:155:ILE:H	2.30	0.50
1:J:553:MLY:CE	4:Y:45:VAL:CG1	2.78	0.50
1:J:733:PRO:CA	1:J:737:PHE:CE1	2.95	0.50
1:J:769:ALA:HB2	1:J:770:GLY:HA2	1.78	0.50
3:L:100:GLY:O	3:L:138:ASN:HA	2.11	0.50
1:M:41:VAL:HG21	1:M:76:GLN:HG3	1.93	0.50
1:M:578:HIS:O	1:M:579:PHE:HB3	2.11	0.50
1:M:687:GLU:O	1:M:691:VAL:HG23	2.11	0.50
2:N:139:ALA:C	2:N:141:PRO:HD3	2.33	0.50
1:P:292:MET:HE2	1:P:309:PRO:HD3	1.93	0.50
1:P:546:THR:CG2	1:P:548:THR:HB	2.41	0.50
1:P:733:PRO:CA	1:P:737:PHE:CE1	2.94	0.50
4:0:287:ILE:HG22	4:2:203:THR:CG2	2.28	0.50
4:1:204:ALA:H	4:Z:287:ILE:CB	2.24	0.50
1:A:732:ILE:O	1:A:736:GLN:HG3	2.12	0.50
1:D:154:HIS:CD2	1:D:155:ILE:H	2.30	0.50
1:D:311:ASP:HB2	1:D:312:TYR:CE1	2.46	0.50
1:D:408:VAL:CG1	4:9:332:PRO:HB3	2.41	0.50
1:D:797:PHE:CD1	3:F:146:ILE:O	2.62	0.50
1:G:218:LEU:CD2	1:G:222:ILE:CG1	2.85	0.50
1:G:291:ILE:HA	1:G:331:LEU:CD1	2.39	0.50
1:G:540:CYS:C	4:V:349:LEU:HD21	2.36	0.50
1:G:646:PHE:CE2	1:G:652:LEU:CD2	2.87	0.50
1:G:687:GLU:O	1:G:691:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:100:GLY:O	3:I:138:ASN:HA	2.11	0.50
1:J:292:MET:HE2	1:J:309:PRO:HD3	1.93	0.50
1:J:629:GLU:CB	1:J:645:SER:N	2.74	0.50
1:J:788:THR:O	3:L:42:THR:CG2	2.52	0.50
1:M:154:HIS:CD2	1:M:155:ILE:H	2.30	0.50
1:M:830:PRO:HB2	2:N:67:MET:HE2	1.93	0.50
1:P:346:ASP:O	1:P:349:THR:HB	2.11	0.50
1:P:411:GLU:H	4:0:333:PRO:CG	2.24	0.50
1:P:538:GLU:HA	4:0:349:LEU:CB	2.40	0.50
1:P:762:HIS:CD2	1:P:762:HIS:N	2.78	0.50
1:P:839:MLY:N	1:P:840:PRO:CD	2.75	0.50
1:A:212:GLY:O	1:A:213:LYS:HB2	2.10	0.50
1:A:601:ASP:N	1:A:602:PRO:CD	2.75	0.50
1:D:506:GLU:OE2	1:D:764:MLY:CE	2.59	0.50
1:D:553:MLY:CE	4:W:45:VAL:CA	2.49	0.50
1:D:732:ILE:HD13	1:D:782:MLY:CH2	2.40	0.50
1:G:310:TYR:CE2	1:G:320:ILE:CD1	2.94	0.50
1:G:715:VAL:O	1:G:764:MLY:HB3	2.12	0.50
2:H:112:ILE:HG23	2:H:147:ASN:HB3	1.93	0.50
1:J:93:MET:HE2	1:J:764:MLY:CD	2.42	0.50
1:J:169:ASP:N	1:J:169:ASP:OD1	2.44	0.50
1:J:429:LEU:O	1:J:433:VAL:HG23	2.12	0.50
1:J:546:THR:CG2	1:J:548:THR:HB	2.41	0.50
1:J:836:PHE:CE1	2:K:160:GLY:N	2.78	0.50
1:J:839:MLY:N	1:J:840:PRO:CD	2.75	0.50
1:M:448:GLN:C	1:M:450:ASP:H	2.19	0.50
1:M:547:ASP:O	1:M:550:PHE:HB3	2.12	0.50
1:P:38:VAL:CG1	1:P:39:PHE:N	2.74	0.50
1:P:629:GLU:CB	1:P:645:SER:N	2.73	0.50
1:P:805:ALA:O	1:P:809:ARG:CA	2.54	0.50
4:0:202:THR:HG23	4:Y:287:ILE:N	1.96	0.50
4:8:70:PRO:HG3	4:8:81:ASP:HB3	1.94	0.50
1:A:218:LEU:N	1:A:221:GLN:CG	2.74	0.50
1:A:237:THR:O	1:A:240:ASN:O	2.29	0.50
1:A:448:GLN:C	1:A:450:ASP:H	2.19	0.50
1:A:508:ILE:HD13	1:A:759:ALA:HB2	1.78	0.50
1:D:89:GLU:CD	1:D:153:PRO:HD2	2.36	0.50
1:D:292:MET:HE2	1:D:309:PRO:HD3	1.93	0.50
1:D:448:GLN:C	1:D:450:ASP:H	2.19	0.50
1:D:471:ASP:HB3	1:D:573:GLY:O	2.12	0.50
1:D:538:GLU:OE1	4:9:351:THR:HB	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:715:VAL:O	1:D:764:MLY:HB3	2.12	0.50
1:D:733:PRO:CA	1:D:737:PHE:CE1	2.94	0.50
1:G:471:ASP:HB3	1:G:573:GLY:O	2.12	0.50
1:J:89:GLU:CD	1:J:153:PRO:HD2	2.37	0.50
1:J:538:GLU:OE1	4:W:351:THR:HB	2.12	0.50
1:J:649:VAL:HA	1:J:649:VAL:HG23	1.83	0.50
1:J:747:LEU:C	1:J:749:GLY:H	2.20	0.50
1:M:733:PRO:CA	1:M:737:PHE:CE1	2.95	0.50
1:M:805:ALA:O	1:M:809:ARG:HG3	2.12	0.50
1:M:836:PHE:CE2	2:N:160:GLY:H	1.68	0.50
1:P:109:ARG:HD3	1:P:117:THR:HB	1.92	0.50
1:P:642:LYS:CG	4:0:22:ALA:HA	2.37	0.50
4:0:202:THR:N	4:Y:287:ILE:H	2.10	0.50
4:0:287:ILE:CB	4:2:203:THR:CG2	2.90	0.50
4:3:287:ILE:CB	4:5:204:ALA:H	2.24	0.50
1:A:278:GLN:HG3	1:A:318:GLY:H	1.75	0.50
1:A:471:ASP:HB3	1:A:573:GLY:O	2.12	0.50
1:A:547:ASP:O	1:A:550:PHE:HB3	2.12	0.50
2:B:121:LEU:HA	2:B:128:PHE:CD2	2.46	0.50
1:D:612:GLN:HE22	1:D:627:GLY:HA2	1.66	0.50
1:D:640:LYS:CA	1:D:645:SER:OG	2.58	0.50
1:D:732:ILE:O	1:D:736:GLN:HG3	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:640:LYS:CA	1:G:645:SER:OG	2.58	0.50
1:J:278:GLN:HG3	1:J:318:GLY:H	1.75	0.50
1:J:762:HIS:CD2	1:J:762:HIS:N	2.78	0.50
2:K:117:LEU:HG	2:K:147:ASN:HB3	1.93	0.50
1:M:346:ASP:O	1:M:349:THR:HB	2.11	0.50
1:M:675:ILE:CG2	1:M:676:ILE:N	2.74	0.50
1:M:739:ASP:CB	1:M:742:LYS:CB	2.81	0.50
2:N:117:LEU:HG	2:N:147:ASN:HB3	1.93	0.50
1:P:41:VAL:HG21	1:P:76:GLN:HG3	1.93	0.50
1:P:169:ASP:N	1:P:169:ASP:OD1	2.44	0.50
1:P:547:ASP:O	1:P:550:PHE:HB3	2.12	0.50
1:P:795:ARG:HE	3:R:116:GLU:CB	2.24	0.50
2:Q:112:ILE:HG23	2:Q:147:ASN:HB3	1.92	0.50
2:Q:114:LYS:N	2:Q:146:GLY:O	2.40	0.50
4:0:243:PRO:CD	4:Y:291:LYS:HE3	2.42	0.50
4:0:318:THR:HA	4:0:327:ILE:HG12	1.94	0.50
4:1:288:ASP:CB	4:3:203:THR:CG2	2.87	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:318:THR:HA	4:Z:327:ILE:HG12	1.94	0.50
1:A:310:TYR:CE2	1:A:320:ILE:CD1	2.94	0.49
1:A:839:MLY:HB2	1:A:840:PRO:HD3	1.94	0.49
1:D:839:MLY:N	1:D:840:PRO:CD	2.75	0.49
1:G:732:ILE:O	1:G:736:GLN:HG3	2.12	0.49
1:G:733:PRO:CA	1:G:737:PHE:CE1	2.95	0.49
1:J:642:LYS:CG	4:W:22:ALA:HA	2.37	0.49
1:J:715:VAL:O	1:J:764:MLY:HB3	2.12	0.49
1:M:128:PRO:O	1:M:683:PRO:HB3	2.12	0.49
1:M:471:ASP:HB3	1:M:573:GLY:O	2.12	0.49
1:M:715:VAL:HG12	1:M:716:LEU:O	2.12	0.49
1:M:806:MET:CB	1:M:807:VAL:N	2.75	0.49
1:P:134:VAL:C	1:P:136:ASN:H	2.16	0.49
1:P:502:GLU:OE2	1:P:761:GLY:N	2.44	0.49
1:P:646:PHE:HE2	1:P:652:LEU:CG	2.25	0.49
1:P:789:ALA:HB2	3:R:81:GLN:CD	2.35	0.49
4:1:287:ILE:HG21	4:3:203:THR:N	2.19	0.49
4:5:70:PRO:HG3	4:5:81:ASP:HB3	1.94	0.49
4:9:318:THR:HA	4:9:327:ILE:HG12	1.94	0.49
4:V:318:THR:HA	4:V:327:ILE:HG12	1.94	0.49
4:W:318:THR:HA	4:W:327:ILE:HG12	1.94	0.49
4:X:318:THR:HA	4:X:327:ILE:HG12	1.94	0.49
1:A:202:SER:HB2	1:A:207:LYS:NZ	2.26	0.49
1:A:411:GLU:H	4:8:333:PRO:CG	2.24	0.49
1:D:169:ASP:OD1	1:D:169:ASP:N	2.44	0.49
1:D:486:MLY:HH22	1:D:527:GLU:CD	2.37	0.49
1:D:642:LYS:CG	4:9:22:ALA:HA	2.37	0.49
2:E:123:THR:HA	3:F:19:ARG:HH12	1.77	0.49
2:E:140:PHE:HB3	2:E:144:VAL:HG12	1.94	0.49
1:G:148:ARG:NH2	1:G:764:MLY:CH2	2.73	0.49
1:G:169:ASP:N	1:G:169:ASP:OD1	2.44	0.49
1:G:715:VAL:HG12	1:G:716:LEU:O	2.12	0.49
1:G:759:ALA:O	1:G:766:PHE:N	2.32	0.49
1:J:38:VAL:CG1	1:J:39:PHE:N	2.74	0.49
1:J:192:VAL:O	1:J:195:TYR:HB3	2.13	0.49
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	0.49
1:M:35:MLY:HG3	1:M:777:GLU:OE2	2.11	0.49
1:M:839:MLY:HB2	1:M:840:PRO:HD3	1.94	0.49
1:P:214:MET:HA	1:P:340:ILE:CD1	2.41	0.49
1:P:715:VAL:HG12	1:P:716:LEU:O	2.12	0.49
4:1:324:THR:CB	4:3:244:ASP:CA	2.82	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:318:THR:HA	4:3:327:ILE:HG12	1.94	0.49
4:7:318:THR:HA	4:7:327:ILE:HG12	1.94	0.49
4:V:322:PRO:HB3	4:X:246:GLN:HG2	1.92	0.49
1:A:715:VAL:O	1:A:764:MLY:HB3	2.12	0.49
1:A:733:PRO:CA	1:A:737:PHE:CE1	2.95	0.49
1:A:747:LEU:C	1:A:749:GLY:H	2.20	0.49
2:B:114:LYS:HG3	2:B:137:TRP:CZ2	2.48	0.49
2:B:140:PHE:HB3	2:B:144:VAL:HG12	1.94	0.49
1:D:251:ARG:O	1:D:263:ALA:HA	2.12	0.49
1:D:291:ILE:HA	1:D:331:LEU:CD1	2.39	0.49
1:G:553:MLY:O	4:X:46:GLY:HA3	2.12	0.49
1:G:642:LYS:CB	4:V:24:ASP:O	2.60	0.49
1:G:739:ASP:OD1	1:G:740:SER:N	2.45	0.49
1:G:839:MLY:HB2	1:G:840:PRO:HD3	1.94	0.49
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	0.49
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.49
1:J:251:ARG:O	1:J:263:ALA:HA	2.12	0.49
1:J:601:ASP:N	1:J:602:PRO:CD	2.75	0.49
1:J:801:VAL:CG2	3:L:126:LEU:HD21	2.39	0.49
2:K:114:LYS:HG3	2:K:137:TRP:CZ2	2.48	0.49
1:M:411:GLU:H	4:Z:333:PRO:CG	2.24	0.49
1:M:543:PRO:CD	4:Z:146:GLY:O	2.61	0.49
1:M:601:ASP:N	1:M:602:PRO:CD	2.75	0.49
1:M:783:LEU:C	1:M:786:ILE:CG1	2.58	0.49
2:N:93:PRO:O	2:N:97:ILE:HG13	2.12	0.49
1:P:128:PRO:O	1:P:683:PRO:HB3	2.12	0.49
1:P:251:ARG:O	1:P:263:ALA:HA	2.12	0.49
1:P:311:ASP:HB2	1:P:312:TYR:CE1	2.46	0.49
1:P:797:PHE:CD1	3:R:149:VAL:HG13	2.45	0.49
4:5:318:THR:HA	4:5:327:ILE:HG12	1.94	0.49
4:Y:318:THR:HA	4:Y:327:ILE:HG12	1.95	0.49
1:A:20:SER:HB3	1:A:23:GLU:OE1	2.13	0.49
1:A:154:HIS:CD2	1:A:155:ILE:H	2.30	0.49
1:A:291:ILE:HA	1:A:331:LEU:CD1	2.39	0.49
2:B:93:PRO:O	2:B:97:ILE:HG13	2.12	0.49
1:D:128:PRO:O	1:D:683:PRO:HB3	2.12	0.49
1:D:278:GLN:HG3	1:D:318:GLY:H	1.75	0.49
1:D:839:MLY:HB2	1:D:840:PRO:HD3	1.94	0.49
2:E:121:LEU:HA	2:E:128:PHE:CD2	2.46	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.61	0.49
1:G:819:ASN:ND2	2:H:91:ALA:C	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:819:ASN:HD21	2:H:91:ALA:C	2.21	0.49
1:G:830:PRO:HB3	2:H:67:MET:HE1	1.92	0.49
2:K:112:ILE:HG23	2:K:147:ASN:HB3	1.92	0.49
1:M:555:TYR:HB2	4:1:49:GLN:O	2.12	0.49
1:M:762:HIS:CD2	1:M:762:HIS:N	2.78	0.49
2:N:121:LEU:HA	2:N:128:PHE:CD2	2.46	0.49
1:P:192:VAL:O	1:P:195:TYR:HB3	2.13	0.49
1:P:538:GLU:OE1	4:0:351:THR:HB	2.12	0.49
1:P:806:MET:CB	1:P:807:VAL:N	2.74	0.49
4:4:70:PRO:HG3	4:4:81:ASP:HB3	1.94	0.49
4:8:124:PHE:CZ	4:8:132:MET:HG3	2.48	0.49
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.95	0.49
1:A:346:ASP:O	1:A:349:THR:HB	2.11	0.49
1:A:429:LEU:O	1:A:433:VAL:HG23	2.11	0.49
1:A:502:GLU:O	1:A:761:GLY:CA	2.54	0.49
1:A:543:PRO:CD	4:8:146:GLY:O	2.61	0.49
1:A:756:THR:O	1:A:758:TYR:N	2.45	0.49
1:A:795:ARG:CG	3:C:35:ARG:NH1	2.49	0.49
1:D:173:GLN:OE1	1:D:668:HIS:HB3	2.13	0.49
1:D:192:VAL:O	1:D:195:TYR:HB3	2.13	0.49
1:D:251:ARG:HB2	1:D:264:ASP:HB3	1.95	0.49
1:G:290:GLN:HG2	1:G:331:LEU:CA	2.43	0.49
1:G:629:GLU:HG2	1:G:643:GLY:C	2.35	0.49
1:G:756:THR:O	1:G:758:TYR:N	2.45	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	0.49
1:J:214:MET:HA	1:J:340:ILE:CD1	2.41	0.49
1:J:291:ILE:HA	1:J:331:LEU:CD1	2.39	0.49
1:J:739:ASP:OD1	1:J:740:SER:N	2.45	0.49
1:J:756:THR:O	1:J:758:TYR:N	2.45	0.49
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.48	0.49
1:M:278:GLN:HG3	1:M:318:GLY:H	1.75	0.49
1:M:556:ASP:CB	4:1:49:GLN:CD	2.03	0.49
1:M:715:VAL:O	1:M:764:MLY:HB3	2.12	0.49
1:M:739:ASP:OD1	1:M:740:SER:N	2.45	0.49
1:M:747:LEU:C	1:M:749:GLY:H	2.21	0.49
1:M:756:THR:O	1:M:758:TYR:N	2.46	0.49
3:O:50:LEU:O	3:O:55:LYS:HB2	2.13	0.49
1:P:543:PRO:CD	4:0:146:GLY:O	2.61	0.49
4:1:204:ALA:H	4:Z:287:ILE:HG22	1.74	0.49
4:2:70:PRO:HG3	4:2:81:ASP:HB3	1.94	0.49
4:2:124:PHE:CZ	4:2:132:MET:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:70:PRO:HG3	4:V:81:ASP:HB3	1.94	0.49
4:V:124:PHE:CZ	4:V:132:MET:HG3	2.48	0.49
4:W:325:MET:SD	4:Y:244:ASP:HB3	2.43	0.49
4:X:124:PHE:CZ	4:X:132:MET:HG3	2.48	0.49
1:A:97:LEU:HD13	1:A:97:LEU:N	2.28	0.49
1:A:720:PHE:CD2	1:A:744:SER:HB3	2.48	0.49
1:D:507:GLY:O	1:D:762:HIS:CD2	2.66	0.49
1:D:732:ILE:CG2	1:D:782:MLY:CH2	2.68	0.49
1:G:154:HIS:CD2	1:G:155:ILE:H	2.30	0.49
1:G:754:ASP:N	1:G:779:ARG:HD2	2.12	0.49
1:G:754:ASP:HB3	1:G:757:GLN:HG2	1.72	0.49
2:H:93:PRO:O	2:H:97:ILE:HG13	2.12	0.49
1:J:95:THR:N	1:J:713:SER:HB3	2.24	0.49
1:J:251:ARG:HB2	1:J:264:ASP:HB3	1.94	0.49
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.49
1:J:821:ARG:NH1	2:K:127:ARG:CZ	2.71	0.49
1:M:538:GLU:OE1	4:Z:351:THR:HB	2.12	0.49
1:P:20:SER:HB3	1:P:23:GLU:OE1	2.13	0.49
1:P:312:TYR:N	1:P:312:TYR:CD1	2.81	0.49
1:P:314:TYR:CZ	1:P:362:GLY:HA2	2.48	0.49
1:P:805:ALA:O	1:P:808:GLU:N	2.45	0.49
1:P:839:MLY:HB2	1:P:840:PRO:HD3	1.94	0.49
4:1:287:ILE:HD13	4:3:203:THR:CA	2.41	0.49
4:1:318:THR:HA	4:1:327:ILE:HG12	1.95	0.49
4:8:318:THR:HA	4:8:327:ILE:HG12	1.95	0.49
4:X:70:PRO:HG3	4:X:81:ASP:HB3	1.94	0.49
4:Z:124:PHE:CZ	4:Z:132:MET:HG3	2.48	0.49
1:A:89:GLU:CD	1:A:153:PRO:HD2	2.37	0.49
1:A:813:ILE:HG21	2:B:127:ARG:CG	2.41	0.49
1:A:839:MLY:N	1:A:840:PRO:CD	2.75	0.49
2:B:112:ILE:HG23	2:B:147:ASN:HB3	1.93	0.49
1:D:214:MET:HA	1:D:340:ILE:CD1	2.41	0.49
1:D:543:PRO:CD	4:9:146:GLY:O	2.61	0.49
1:D:601:ASP:N	1:D:602:PRO:CD	2.75	0.49
1:D:739:ASP:OD1	1:D:740:SER:N	2.45	0.49
1:D:793:ARG:O	1:D:797:PHE:N	2.39	0.49
2:E:128:PHE:O	2:E:133:ILE:HD11	2.13	0.49
1:G:747:LEU:C	1:G:749:GLY:H	2.20	0.49
1:G:839:MLY:N	1:G:840:PRO:CD	2.75	0.49
1:J:64:THR:CG2	1:J:65:GLU:N	2.75	0.49
1:J:97:LEU:HD13	1:J:97:LEU:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:471:ASP:HB3	1:J:573:GLY:O	2.12	0.49
1:J:599:ASN:CG	1:J:649:VAL:CB	2.80	0.49
1:M:192:VAL:O	1:M:195:TYR:HB3	2.13	0.49
1:M:251:ARG:O	1:M:263:ALA:HA	2.12	0.49
1:M:839:MLY:N	1:M:840:PRO:CD	2.75	0.49
2:N:140:PHE:HB3	2:N:144:VAL:HG12	1.94	0.49
1:P:544:LYS:HD2	4:0:147:ARG:CB	2.36	0.49
4:0:243:PRO:HB2	4:Y:291:LYS:CE	2.43	0.49
4:2:318:THR:HA	4:2:327:ILE:HG12	1.94	0.49
4:3:70:PRO:HG3	4:3:81:ASP:HB3	1.94	0.49
4:4:318:THR:HA	4:4:327:ILE:HG12	1.94	0.49
4:5:198:TYR:CZ	4:5:248:ILE:HG13	2.48	0.49
4:7:70:PRO:HG3	4:7:81:ASP:HB3	1.94	0.49
4:Z:198:TYR:CZ	4:Z:248:ILE:HG13	2.48	0.49
1:A:173:GLN:OE1	1:A:668:HIS:HB3	2.13	0.49
1:A:192:VAL:O	1:A:195:TYR:HB3	2.13	0.49
1:A:312:TYR:N	1:A:312:TYR:CD1	2.81	0.49
1:A:739:ASP:OD1	1:A:740:SER:N	2.45	0.49
1:D:20:SER:HB3	1:D:23:GLU:OE1	2.13	0.49
1:D:237:THR:HG22	1:D:238:VAL:N	2.28	0.49
1:D:538:GLU:HA	4:9:351:THR:H	1.77	0.49
1:D:712:PRO:CG	1:D:771:LEU:CB	2.71	0.49
1:D:768:MLY:HA	1:D:771:LEU:HD13	1.94	0.49
1:G:20:SER:HB3	1:G:23:GLU:OE1	2.12	0.49
1:G:601:ASP:N	1:G:602:PRO:CD	2.75	0.49
1:J:20:SER:HB3	1:J:23:GLU:OE1	2.13	0.49
1:J:173:GLN:OE1	1:J:668:HIS:HB3	2.13	0.49
1:J:312:TYR:N	1:J:312:TYR:CD1	2.81	0.49
1:J:839:MLY:HH21	2:K:158:THR:CG2	2.42	0.49
2:K:121:LEU:O	2:K:128:PHE:CG	2.61	0.49
1:M:64:THR:CG2	1:M:65:GLU:N	2.75	0.49
1:M:553:MLY:HH22	4:1:43:VAL:HG23	1.95	0.49
1:M:798:LEU:CD2	3:O:122:GLU:HB3	2.37	0.49
1:P:290:GLN:HG2	1:P:331:LEU:CA	2.43	0.49
1:P:291:ILE:HA	1:P:331:LEU:CD1	2.39	0.49
1:P:470:PHE:O	1:P:473:ASN:ND2	2.40	0.49
1:P:830:PRO:HB2	2:Q:67:MET:HE2	1.95	0.49
4:1:148:THR:OG1	4:3:45:VAL:CG2	2.61	0.49
4:X:198:TYR:CZ	4:X:248:ILE:HG13	2.48	0.49
4:Z:70:PRO:HG3	4:Z:81:ASP:HB3	1.94	0.49
1:A:332:MET:O	1:A:336:SER:OG	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:OE1	4:8:351:THR:HB	2.12	0.49
1:A:715:VAL:HG12	1:A:716:LEU:O	2.13	0.49
1:A:757:GLN:CA	1:A:771:LEU:CD1	2.80	0.49
1:D:168:THR:HG22	1:D:169:ASP:OD1	2.12	0.49
1:D:290:GLN:HG2	1:D:331:LEU:CA	2.43	0.49
1:D:507:GLY:O	1:D:761:GLY:HA2	2.13	0.49
1:D:547:ASP:O	1:D:550:PHE:HB3	2.12	0.49
1:D:818:TYR:CD2	2:E:90:GLY:CA	2.96	0.49
1:D:834:LEU:CD2	2:E:54:MET:SD	3.00	0.49
1:G:192:VAL:O	1:G:195:TYR:HB3	2.13	0.49
1:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.49
1:G:732:ILE:H	1:G:733:PRO:CD	2.23	0.49
1:G:817:GLN:NE2	2:H:128:PHE:CE1	2.81	0.49
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.49
1:J:720:PHE:CD2	1:J:744:SER:HB3	2.48	0.49
1:J:795:ARG:CB	3:L:35:ARG:CZ	2.56	0.49
1:J:839:MLY:HB2	1:J:840:PRO:HD3	1.94	0.49
1:M:783:LEU:CB	1:M:786:ILE:HD12	2.33	0.49
2:N:149:ASP:CG	2:N:150:TYR:N	2.49	0.49
1:P:97:LEU:CD2	1:P:712:PRO:CB	2.86	0.49
1:P:218:LEU:N	1:P:221:GLN:CG	2.74	0.49
1:P:471:ASP:HB3	1:P:573:GLY:O	2.12	0.49
1:P:486:MLY:HH22	1:P:527:GLU:CD	2.37	0.49
1:P:715:VAL:O	1:P:764:MLY:HB3	2.12	0.49
1:P:747:LEU:C	1:P:749:GLY:H	2.21	0.49
4:1:124:PHE:CZ	4:1:132:MET:HG3	2.48	0.49
4:4:213:LYS:O	4:4:217:CYS:HB2	2.13	0.49
4:9:70:PRO:HG3	4:9:81:ASP:HB3	1.94	0.49
4:9:124:PHE:CZ	4:9:132:MET:HG3	2.48	0.49
4:V:198:TYR:CZ	4:V:248:ILE:HG13	2.48	0.49
1:A:168:THR:HG22	1:A:169:ASP:OD1	2.12	0.49
1:A:237:THR:HG22	1:A:238:VAL:N	2.28	0.49
1:A:290:GLN:HG2	1:A:331:LEU:CA	2.43	0.49
1:D:332:MET:O	1:D:336:SER:OG	2.27	0.49
1:D:725:ARG:NE	1:D:733:PRO:CB	1.95	0.49
1:D:727:LEU:HB2	1:D:782:MLY:CE	2.43	0.49
1:D:733:PRO:O	1:D:737:PHE:CE1	2.53	0.49
1:G:128:PRO:O	1:G:683:PRO:HB3	2.12	0.49
1:G:168:THR:HG22	1:G:169:ASP:OD1	2.12	0.49
1:G:755:HIS:H	1:G:779:ARG:NH2	2.09	0.49
1:G:792:ALA:O	3:I:35:ARG:NH1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:215:GLN:H	1:J:340:ILE:CD1	2.20	0.49
1:J:310:TYR:CE2	1:J:320:ILE:CD1	2.94	0.49
1:J:476:GLU:CD	1:J:476:GLU:H	2.21	0.49
1:J:723:ARG:HH11	1:J:723:ARG:HG3	1.78	0.49
1:M:486:MLY:HH22	1:M:527:GLU:CD	2.37	0.49
1:M:553:MLY:HG2	4:1:43:VAL:HG11	1.93	0.49
1:M:629:GLU:HG2	1:M:643:GLY:C	2.35	0.49
2:N:114:LYS:HG3	2:N:137:TRP:CZ2	2.47	0.49
2:N:128:PHE:O	2:N:133:ILE:HD11	2.13	0.49
1:P:97:LEU:HD13	1:P:97:LEU:N	2.27	0.49
1:P:173:GLN:OE1	1:P:668:HIS:HB3	2.13	0.49
1:P:540:CYS:C	4:0:349:LEU:HD21	2.36	0.49
1:P:595:TRP:CD1	1:P:595:TRP:N	2.80	0.49
1:P:649:VAL:HA	1:P:649:VAL:HG23	1.83	0.49
1:P:720:PHE:CD2	1:P:744:SER:HB3	2.48	0.49
1:P:739:ASP:OD1	1:P:740:SER:N	2.45	0.49
4:1:70:PRO:HG3	4:1:81:ASP:HB3	1.94	0.49
4:7:124:PHE:CZ	4:7:132:MET:HG3	2.48	0.49
4:7:198:TYR:CZ	4:7:248:ILE:HG13	2.48	0.49
4:9:198:TYR:CZ	4:9:248:ILE:HG13	2.48	0.49
4:W:124:PHE:CZ	4:W:132:MET:HG3	2.48	0.49
1:A:218:LEU:HD22	1:A:222:ILE:HG13	1.95	0.48
1:D:724:TYR:CB	1:D:782:MLY:NZ	2.66	0.48
2:E:114:LYS:HG3	2:E:137:TRP:CZ2	2.48	0.48
1:G:547:ASP:O	1:G:550:PHE:HB3	2.12	0.48
1:G:556:ASP:OD1	4:X:47:MET:CE	2.27	0.48
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.38	0.48
1:M:20:SER:HB3	1:M:23:GLU:OE1	2.13	0.48
1:M:635:GLY:HA3	4:Z:334:GLU:CG	2.30	0.48
1:M:723:ARG:HH11	1:M:723:ARG:HG3	1.78	0.48
1:M:725:ARG:NE	1:M:733:PRO:CB	1.95	0.48
1:M:829:TRP:CZ2	2:N:83:MET:HE3	2.48	0.48
1:P:64:THR:CG2	1:P:65:GLU:N	2.75	0.48
1:P:251:ARG:HB2	1:P:264:ASP:HB3	1.95	0.48
1:P:405:ARG:HB2	1:P:414:THR:OG1	2.13	0.48
1:P:601:ASP:N	1:P:602:PRO:CD	2.75	0.48
1:P:789:ALA:HB1	3:R:81:GLN:HG2	1.94	0.48
2:Q:93:PRO:O	2:Q:97:ILE:HG13	2.12	0.48
2:Q:121:LEU:CA	2:Q:128:PHE:CG	2.89	0.48
2:Q:128:PHE:O	2:Q:133:ILE:HD11	2.13	0.48
3:R:50:LEU:O	3:R:55:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:124:PHE:CZ	4:0:132:MET:HG3	2.48	0.48
4:W:70:PRO:HG3	4:W:81:ASP:HB3	1.94	0.48
1:A:128:PRO:O	1:A:683:PRO:HB3	2.12	0.48
1:A:542:PHE:CD2	4:8:143:TYR:CD1	3.02	0.48
1:A:732:ILE:H	1:A:733:PRO:CD	2.22	0.48
1:D:267:THR:HG21	1:D:438:PHE:HE2	1.76	0.48
1:D:476:GLU:H	1:D:476:GLU:CD	2.22	0.48
1:D:715:VAL:HG12	1:D:716:LEU:O	2.12	0.48
2:E:93:PRO:O	2:E:97:ILE:HG13	2.13	0.48
1:G:175:ILE:C	1:G:176:LEU:HD12	2.38	0.48
1:G:248:MLY:HE2	1:G:250:ILE:HD11	1.95	0.48
1:G:251:ARG:O	1:G:263:ALA:HA	2.12	0.48
1:G:295:MLY:HE2	1:G:332:MET:HE1	1.95	0.48
1:G:486:MLY:HH22	1:G:527:GLU:CD	2.37	0.48
2:H:114:LYS:HG3	2:H:137:TRP:CZ2	2.48	0.48
2:H:117:LEU:HG	2:H:147:ASN:HB3	1.93	0.48
1:J:41:VAL:CG1	1:J:42:HIS:N	2.75	0.48
1:J:168:THR:HG22	1:J:169:ASP:OD1	2.12	0.48
1:J:237:THR:HG22	1:J:238:VAL:N	2.28	0.48
1:J:290:GLN:HG2	1:J:331:LEU:CA	2.43	0.48
1:J:715:VAL:HG12	1:J:716:LEU:O	2.12	0.48
1:J:795:ARG:HE	3:L:116:GLU:CB	2.26	0.48
1:J:813:ILE:CG2	2:K:128:PHE:CE1	2.96	0.48
1:M:97:LEU:HD22	1:M:712:PRO:HB2	1.95	0.48
1:M:168:THR:HG22	1:M:169:ASP:OD1	2.12	0.48
1:M:312:TYR:N	1:M:312:TYR:CD1	2.81	0.48
1:M:405:ARG:HB2	1:M:414:THR:OG1	2.13	0.48
1:M:576:GLU:CG	1:M:577:ALA:N	2.44	0.48
1:M:646:PHE:CE2	1:M:652:LEU:CD2	2.87	0.48
1:M:791:GLN:OE1	3:O:116:GLU:N	2.35	0.48
1:M:813:ILE:HG23	2:N:128:PHE:CE1	2.48	0.48
1:P:136:ASN:HA	1:P:137:PRO:HD3	1.50	0.48
1:P:237:THR:HG22	1:P:238:VAL:N	2.28	0.48
1:P:267:THR:HG21	1:P:438:PHE:HE2	1.76	0.48
1:P:642:LYS:CB	4:0:24:ASP:O	2.60	0.48
1:P:793:ARG:O	1:P:797:PHE:N	2.39	0.48
1:P:795:ARG:CZ	3:R:43:ASN:OD1	2.38	0.48
4:0:166:TYR:CZ	4:2:64:ILE:HG22	2.42	0.48
4:1:213:LYS:O	4:1:217:CYS:HB2	2.13	0.48
4:3:287:ILE:HG22	4:5:204:ALA:H	1.74	0.48
4:9:325:MET:HE2	4:W:244:ASP:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:198:TYR:CZ	4:W:248:ILE:HG13	2.48	0.48
1:A:251:ARG:O	1:A:263:ALA:HA	2.12	0.48
1:A:723:ARG:HH11	1:A:723:ARG:HG3	1.78	0.48
1:A:797:PHE:CE1	3:C:146:ILE:HG23	2.45	0.48
2:B:114:LYS:N	2:B:146:GLY:O	2.40	0.48
1:D:64:THR:CG2	1:D:65:GLU:N	2.75	0.48
1:D:310:TYR:CE2	1:D:320:ILE:CD1	2.94	0.48
1:D:404:PRO:HD2	1:D:415:MLY:O	2.13	0.48
1:D:405:ARG:HB2	1:D:414:THR:OG1	2.13	0.48
1:D:540:CYS:C	4:9:349:LEU:HD21	2.36	0.48
1:D:642:LYS:CB	4:9:24:ASP:O	2.59	0.48
1:G:237:THR:HG22	1:G:238:VAL:N	2.28	0.48
1:G:405:ARG:HB2	1:G:414:THR:OG1	2.13	0.48
1:G:765:VAL:CG1	1:G:766:PHE:N	2.77	0.48
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.80	0.48
3:I:50:LEU:O	3:I:55:LYS:HB2	2.13	0.48
1:J:404:PRO:HD2	1:J:415:MLY:O	2.13	0.48
1:J:405:ARG:HB2	1:J:414:THR:OG1	2.13	0.48
1:J:544:LYS:HD2	4:W:147:ARG:CB	2.36	0.48
1:M:97:LEU:HD13	1:M:97:LEU:N	2.28	0.48
1:M:499:GLU:HA	1:M:499:GLU:OE1	2.13	0.48
1:P:206:LYS:HD2	1:P:217:THR:CG2	2.17	0.48
1:P:476:GLU:CD	1:P:476:GLU:H	2.22	0.48
1:P:675:ILE:CG2	1:P:676:ILE:N	2.74	0.48
1:P:723:ARG:HH11	1:P:723:ARG:HG3	1.78	0.48
1:P:729:ALA:HB1	3:R:93:VAL:CB	2.39	0.48
1:P:829:TRP:HZ3	2:Q:84:PHE:CE2	2.30	0.48
4:3:120:THR:HG21	4:3:370:VAL:HG11	1.95	0.48
4:4:198:TYR:CZ	4:4:248:ILE:HG13	2.48	0.48
4:7:325:MET:HE2	4:9:244:ASP:HB3	1.94	0.48
4:8:198:TYR:CZ	4:8:248:ILE:HG13	2.48	0.48
4:Y:124:PHE:CZ	4:Y:132:MET:HG3	2.48	0.48
4:Z:253:GLU:HA	4:Z:256:ARG:CG	2.42	0.48
1:A:499:GLU:OE1	1:A:499:GLU:HA	2.13	0.48
1:A:556:ASP:CA	4:V:49:GLN:O	2.52	0.48
1:D:295:MLY:HE2	1:D:332:MET:HE1	1.95	0.48
1:D:727:LEU:HD11	1:D:782:MLY:HD3	1.78	0.48
1:G:64:THR:CG2	1:G:65:GLU:N	2.75	0.48
1:G:173:GLN:OE1	1:G:668:HIS:HB3	2.13	0.48
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.48
1:G:617:MLY:O	1:G:620:ALA:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:834:LEU:CD2	2:H:34:ILE:HG12	2.43	0.48
1:J:84:MLY:HH12	1:J:715:VAL:HG11	1.94	0.48
1:J:136:ASN:O	1:J:139:VAL:N	2.47	0.48
1:J:267:THR:HG21	1:J:438:PHE:HE2	1.76	0.48
1:J:314:TYR:CZ	1:J:362:GLY:HA2	2.48	0.48
1:J:756:THR:HG21	1:J:779:ARG:HB3	1.95	0.48
2:K:128:PHE:O	2:K:133:ILE:HD11	2.13	0.48
1:M:35:MLY:CH2	1:M:778:MET:HG3	2.37	0.48
1:M:173:GLN:OE1	1:M:668:HIS:HB3	2.13	0.48
1:M:418:THR:CB	1:M:421:GLU:HG3	2.37	0.48
1:M:617:MLY:O	1:M:620:ALA:HB3	2.14	0.48
1:M:689:GLU:O	1:M:689:GLU:HG2	2.14	0.48
1:P:168:THR:HG22	1:P:169:ASP:OD1	2.12	0.48
1:P:404:PRO:HD2	1:P:415:MLY:O	2.13	0.48
1:P:756:THR:O	1:P:758:TYR:N	2.45	0.48
2:Q:114:LYS:HG3	2:Q:137:TRP:CZ2	2.48	0.48
2:Q:140:PHE:HB3	2:Q:144:VAL:HG12	1.94	0.48
4:0:70:PRO:HG3	4:0:81:ASP:HB3	1.94	0.48
4:5:124:PHE:CZ	4:5:132:MET:HG3	2.48	0.48
4:X:286:ASP:OD1	4:Z:202:THR:C	2.57	0.48
1:A:64:THR:CG2	1:A:65:GLU:N	2.76	0.48
1:A:175:ILE:C	1:A:176:LEU:HD12	2.39	0.48
1:A:406:VAL:CG1	1:A:407:GLY:N	2.77	0.48
1:A:486:MLY:HH22	1:A:527:GLU:CD	2.37	0.48
1:A:765:VAL:CG1	1:A:766:PHE:N	2.77	0.48
1:D:314:TYR:CZ	1:D:362:GLY:HA2	2.48	0.48
1:D:541:MET:SD	4:9:345:ILE:C	2.95	0.48
1:D:712:PRO:HB2	1:D:771:LEU:CG	2.42	0.48
2:E:121:LEU:O	2:E:128:PHE:CG	2.61	0.48
1:G:538:GLU:HA	4:V:351:THR:H	1.76	0.48
1:G:720:PHE:CD2	1:G:744:SER:HB3	2.48	0.48
1:G:795:ARG:HB3	3:I:35:ARG:NH1	2.24	0.48
1:G:823:PHE:HE1	2:H:160:GLY:CA	2.27	0.48
1:J:93:MET:HE2	1:J:764:MLY:HD3	1.96	0.48
1:J:410:ASN:HD22	4:W:336:LYS:HE2	1.78	0.48
1:M:175:ILE:C	1:M:176:LEU:HD12	2.39	0.48
1:M:295:MLY:HE2	1:M:332:MET:HE1	1.95	0.48
1:M:720:PHE:CD2	1:M:744:SER:HB3	2.48	0.48
1:P:617:MLY:O	1:P:620:ALA:HB3	2.14	0.48
1:P:732:ILE:H	1:P:733:PRO:HD2	1.74	0.48
4:0:213:LYS:O	4:0:217:CYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:124:PHE:CZ	4:3:132:MET:HG3	2.48	0.48
4:4:120:THR:HG21	4:4:370:VAL:HG11	1.95	0.48
4:W:213:LYS:O	4:W:217:CYS:HB2	2.13	0.48
1:A:405:ARG:HB2	1:A:414:THR:OG1	2.13	0.48
1:A:540:CYS:C	4:8:349:LEU:HD21	2.36	0.48
1:A:793:ARG:NH2	3:C:147:MET:CE	2.32	0.48
1:D:289:TYR:OH	1:D:315:VAL:O	2.27	0.48
1:D:550:PHE:CE2	1:D:592:ILE:CG2	2.97	0.48
1:D:599:ASN:CG	1:D:649:VAL:CB	2.80	0.48
1:D:617:MLY:O	1:D:620:ALA:HB3	2.14	0.48
1:D:756:THR:O	1:D:758:TYR:N	2.45	0.48
1:D:765:VAL:CG1	1:D:766:PHE:N	2.77	0.48
1:D:818:TYR:HB3	2:E:90:GLY:H	1.72	0.48
1:G:84:MLY:HB3	1:G:723:ARG:CD	2.42	0.48
1:G:499:GLU:OE1	1:G:499:GLU:HA	2.13	0.48
1:J:547:ASP:O	1:J:550:PHE:HB3	2.12	0.48
1:M:136:ASN:O	1:M:139:VAL:N	2.47	0.48
1:M:406:VAL:CG1	1:M:407:GLY:N	2.77	0.48
1:M:410:ASN:HD22	4:Z:336:LYS:HE2	1.78	0.48
1:M:544:LYS:HD2	4:Z:147:ARG:CB	2.36	0.48
1:M:805:ALA:O	1:M:809:ARG:CG	2.61	0.48
2:N:144:VAL:HG12	2:N:153:ILE:HD11	1.75	0.48
1:P:410:ASN:HD22	4:0:336:LYS:HE2	1.78	0.48
4:3:198:TYR:CZ	4:3:248:ILE:HG13	2.48	0.48
4:3:253:GLU:HA	4:3:256:ARG:CG	2.42	0.48
4:4:124:PHE:CZ	4:4:132:MET:HG3	2.48	0.48
4:4:250:ILE:HG23	4:4:253:GLU:HG2	1.96	0.48
4:Y:70:PRO:HG3	4:Y:81:ASP:HB3	1.94	0.48
1:A:248:MLY:HE2	1:A:250:ILE:HD11	1.95	0.48
1:A:354:LEU:HD12	1:A:354:LEU:HA	1.56	0.48
1:A:739:ASP:CB	1:A:742:LYS:CB	2.81	0.48
1:D:436:MLY:HE3	1:D:626:TYR:HE1	1.77	0.48
1:D:720:PHE:CD2	1:D:744:SER:HB3	2.48	0.48
1:D:747:LEU:C	1:D:749:GLY:N	2.71	0.48
2:E:149:ASP:CG	2:E:150:TYR:N	2.49	0.48
3:F:50:LEU:O	3:F:55:LYS:HB2	2.13	0.48
1:G:134:VAL:C	1:G:136:ASN:H	2.16	0.48
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.48
1:G:733:PRO:O	1:G:737:PHE:CE1	2.53	0.48
1:G:795:ARG:CG	3:I:118:MET:CE	2.54	0.48
1:J:10:PHE:CD2	1:J:17:LEU:HD23	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:538:GLU:HA	4:W:351:THR:H	1.77	0.48
1:J:617:MLY:O	1:J:620:ALA:HB3	2.14	0.48
1:J:795:ARG:HD2	3:L:35:ARG:NH1	2.28	0.48
2:K:93:PRO:O	2:K:97:ILE:HG13	2.12	0.48
1:M:290:GLN:HG2	1:M:331:LEU:CA	2.43	0.48
1:M:544:LYS:O	4:1:45:VAL:CG1	2.57	0.48
1:P:295:MLY:HE2	1:P:332:MET:HE1	1.95	0.48
1:P:499:GLU:OE1	1:P:499:GLU:HA	2.13	0.48
1:P:732:ILE:HG21	1:P:747:LEU:CD1	0.63	0.48
4:0:288:ASP:OD1	4:2:62:ARG:CG	2.62	0.48
4:5:250:ILE:HG23	4:5:253:GLU:HG2	1.96	0.48
4:7:213:LYS:O	4:7:217:CYS:HB2	2.13	0.48
4:V:120:THR:HG21	4:V:370:VAL:HG11	1.95	0.48
4:X:213:LYS:O	4:X:217:CYS:HB2	2.13	0.48
4:Y:213:LYS:O	4:Y:217:CYS:HB2	2.13	0.48
4:Y:250:ILE:HG23	4:Y:253:GLU:HG2	1.96	0.48
4:Z:213:LYS:O	4:Z:217:CYS:HB2	2.13	0.48
1:A:10:PHE:CD2	1:A:17:LEU:HD23	2.49	0.48
1:A:546:THR:CG2	1:A:547:ASP:N	2.77	0.48
1:A:549:SER:C	4:V:45:VAL:O	2.56	0.48
1:D:106:LEU:HD12	1:D:117:THR:HG21	1.96	0.48
1:D:689:GLU:O	1:D:689:GLU:HG2	2.14	0.48
1:G:10:PHE:CD2	1:G:17:LEU:HD23	2.49	0.48
1:G:312:TYR:N	1:G:312:TYR:CD1	2.80	0.48
1:G:476:GLU:H	1:G:476:GLU:CD	2.21	0.48
1:G:834:LEU:CD2	2:H:34:ILE:CD1	2.92	0.48
1:J:87:MLY:HD3	1:J:87:MLY:HH12	1.61	0.48
1:J:470:PHE:O	1:J:473:ASN:ND2	2.40	0.48
2:K:112:ILE:CG2	2:K:147:ASN:O	2.62	0.48
1:M:214:MET:HA	1:M:340:ILE:CD1	2.41	0.48
1:M:404:PRO:HD2	1:M:415:MLY:O	2.13	0.48
1:M:546:THR:CG2	1:M:547:ASP:N	2.77	0.48
1:P:544:LYS:HZ3	4:2:45:VAL:CG2	2.25	0.48
1:P:546:THR:CG2	1:P:547:ASP:N	2.77	0.48
1:P:689:GLU:O	1:P:689:GLU:HG2	2.14	0.48
1:P:839:MLY:HH11	2:Q:158:THR:HG22	1.96	0.48
4:0:250:ILE:HG23	4:0:253:GLU:HG2	1.96	0.48
4:1:198:TYR:CZ	4:1:248:ILE:HG13	2.48	0.48
4:2:250:ILE:HG23	4:2:253:GLU:HG2	1.96	0.48
4:5:213:LYS:O	4:5:217:CYS:HB2	2.13	0.48
4:7:250:ILE:HG23	4:7:253:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:285:CYS:O	4:X:202:THR:HG22	2.14	0.48
1:A:476:GLU:H	1:A:476:GLU:CD	2.21	0.48
1:D:312:TYR:N	1:D:312:TYR:CD1	2.81	0.48
1:D:546:THR:CG2	1:D:547:ASP:N	2.77	0.48
1:D:640:LYS:C	1:D:645:SER:HG	2.10	0.48
1:G:97:LEU:HD13	1:G:97:LEU:N	2.27	0.48
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.95	0.48
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.48
1:M:595:TRP:N	1:M:595:TRP:CD1	2.80	0.48
1:M:785:GLU:HG3	3:O:81:GLN:HG3	1.95	0.48
1:M:821:ARG:HH22	2:N:127:ARG:HE	1.62	0.48
2:N:144:VAL:HG12	2:N:153:ILE:HD13	1.92	0.48
1:P:136:ASN:O	1:P:139:VAL:N	2.47	0.48
1:P:154:HIS:CE1	1:P:156:PHE:CE2	3.02	0.48
2:Q:121:LEU:HA	2:Q:128:PHE:CD2	2.46	0.48
4:0:198:TYR:CZ	4:0:248:ILE:HG13	2.48	0.48
4:W:250:ILE:HG23	4:W:253:GLU:HG2	1.96	0.48
4:Y:198:TYR:CZ	4:Y:248:ILE:HG13	2.48	0.48
1:A:544:LYS:HD2	4:8:147:ARG:CB	2.36	0.48
1:A:550:PHE:CE2	1:A:592:ILE:CG2	2.97	0.48
1:A:617:MLY:O	1:A:620:ALA:HB3	2.14	0.48
1:D:544:LYS:HD2	4:9:147:ARG:CB	2.36	0.48
1:D:554:LEU:HD12	1:D:554:LEU:HA	1.76	0.48
1:D:578:HIS:HB3	1:D:592:ILE:CD1	2.38	0.48
1:D:602:PRO:O	1:D:603:LEU:HD12	2.14	0.48
1:D:712:PRO:HB2	1:D:771:LEU:CD2	2.44	0.48
1:D:831:TRP:HZ3	2:E:34:ILE:HG12	1.79	0.48
2:H:140:PHE:HB3	2:H:144:VAL:HG12	1.95	0.48
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	0.48
1:J:636:LYS:O	4:W:144:ALA:HB1	2.14	0.48
1:M:550:PHE:CE2	1:M:592:ILE:CG2	2.97	0.48
1:M:564:ASN:HD22	1:M:582:VAL:HB	1.79	0.48
1:M:786:ILE:CG2	1:M:787:ILE:N	2.75	0.48
1:P:786:ILE:O	1:P:790:THR:N	2.47	0.48
1:P:793:ARG:HA	3:R:40:ASN:CB	2.42	0.48
4:8:120:THR:HG21	4:8:370:VAL:HG11	1.95	0.48
4:9:250:ILE:HG23	4:9:253:GLU:HG2	1.96	0.48
4:V:213:LYS:O	4:V:217:CYS:HB2	2.13	0.48
4:V:250:ILE:HG23	4:V:253:GLU:HG2	1.96	0.48
4:X:120:THR:HG21	4:X:370:VAL:HG11	1.95	0.48
1:A:314:TYR:CZ	1:A:362:GLY:HA2	2.48	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:A:689:GLU:HG2	1:A:689:GLU:O	2.14	0.47
1:A:732:ILE:H	1:A:733:PRO:HD2	1.74	0.47
3:C:50:LEU:O	3:C:55:LYS:HB2	2.13	0.47
1:D:10:PHE:CD2	1:D:17:LEU:HD23	2.49	0.47
1:D:97:LEU:HD13	1:D:97:LEU:N	2.28	0.47
1:D:542:PHE:CD2	4:9:143:TYR:CD1	3.02	0.47
1:D:568:PRO:HD3	1:D:579:PHE:HA	1.96	0.47
1:G:550:PHE:CE2	1:G:592:ILE:CG2	2.97	0.47
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.47
1:G:723:ARG:HH11	1:G:723:ARG:HG3	1.78	0.47
1:G:792:ALA:HB2	3:I:42:THR:N	2.07	0.47
2:H:128:PHE:O	2:H:133:ILE:HD11	2.13	0.47
1:J:436:MLY:HE3	1:J:626:TYR:HE1	1.77	0.47
1:J:542:PHE:CD2	4:W:143:TYR:CD1	3.02	0.47
1:J:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.47
3:L:50:LEU:O	3:L:55:LYS:HB2	2.13	0.47
1:M:92:ALA:O	1:M:714:ARG:CG	2.62	0.47
1:M:206:LYS:HD2	1:M:217:THR:CG2	2.17	0.47
1:M:237:THR:HG22	1:M:238:VAL:N	2.28	0.47
1:M:310:TYR:CE2	1:M:320:ILE:CD1	2.94	0.47
1:M:314:TYR:CZ	1:M:362:GLY:HA2	2.48	0.47
1:M:346:ASP:O	1:M:350:ALA:N	2.45	0.47
1:M:476:GLU:CD	1:M:476:GLU:H	2.22	0.47
1:M:783:LEU:O	1:M:786:ILE:CG1	2.46	0.47
1:P:218:LEU:CD2	1:P:222:ILE:CG1	2.86	0.47
1:P:550:PHE:CE2	1:P:592:ILE:CG2	2.97	0.47
2:Q:117:LEU:HG	2:Q:147:ASN:HB3	1.93	0.47
4:1:253:GLU:HA	4:1:256:ARG:CG	2.42	0.47
4:2:198:TYR:CZ	4:2:248:ILE:HG13	2.48	0.47
4:3:250:ILE:HG23	4:3:253:GLU:HG2	1.96	0.47
4:9:213:LYS:O	4:9:217:CYS:HB2	2.13	0.47
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.31	0.47
4:Z:120:THR:HG21	4:Z:370:VAL:HG11	1.95	0.47
1:A:136:ASN:O	1:A:139:VAL:N	2.47	0.47
1:A:166:MET:HE3	1:A:459:ILE:HG13	1.97	0.47
1:A:410:ASN:HD22	4:8:336:LYS:HE2	1.78	0.47
1:A:819:ASN:N	2:B:90:GLY:C	2.72	0.47
2:B:128:PHE:O	2:B:133:ILE:HD11	2.13	0.47
1:D:175:ILE:C	1:D:176:LEU:HD12	2.39	0.47
1:D:541:MET:HE2	4:9:346:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:564:ASN:HD22	1:D:582:VAL:HB	1.79	0.47
1:D:759:ALA:O	1:D:766:PHE:N	2.32	0.47
1:D:800:ARG:HH22	3:F:40:ASN:HD21	1.25	0.47
1:G:166:MET:HE3	1:G:459:ILE:HG13	1.97	0.47
1:G:410:ASN:HD22	4:V:336:LYS:HE2	1.79	0.47
1:J:541:MET:HE2	4:W:346:LEU:HD12	1.96	0.47
1:M:166:MET:HE3	1:M:459:ILE:HG13	1.96	0.47
1:P:636:LYS:O	4:0:144:ALA:HB1	2.14	0.47
1:P:732:ILE:H	1:P:733:PRO:CD	2.23	0.47
1:P:792:ALA:CB	3:R:42:THR:HA	2.44	0.47
1:P:829:TRP:CH2	2:Q:84:PHE:CE1	3.02	0.47
4:0:110:LEU:CA	4:1:195:GLU:HG3	2.44	0.47
4:1:204:ALA:N	4:Z:287:ILE:HG21	2.28	0.47
4:1:250:ILE:HG23	4:1:253:GLU:HG2	1.96	0.47
4:3:213:LYS:O	4:3:217:CYS:HB2	2.13	0.47
4:4:217:CYS:C	4:4:218:TYR:HD1	2.22	0.47
4:5:120:THR:HG21	4:5:370:VAL:HG11	1.95	0.47
4:7:217:CYS:C	4:7:218:TYR:HD1	2.22	0.47
4:8:213:LYS:O	4:8:217:CYS:HB2	2.13	0.47
4:V:285:CYS:O	4:X:202:THR:CG2	2.62	0.47
4:X:250:ILE:HG23	4:X:253:GLU:HG2	1.96	0.47
4:X:291:LYS:CA	4:Z:244:ASP:HB3	2.37	0.47
4:Z:250:ILE:HG23	4:Z:253:GLU:HG2	1.96	0.47
1:A:402:CYS:C	1:A:404:PRO:HD3	2.40	0.47
1:A:602:PRO:O	1:A:603:LEU:HD12	2.14	0.47
1:D:154:HIS:CE1	1:D:156:PHE:CE2	3.02	0.47
1:D:675:ILE:CG2	1:D:676:ILE:N	2.74	0.47
1:D:793:ARG:CZ	3:F:87:PHE:HE1	2.27	0.47
1:G:314:TYR:CZ	1:G:362:GLY:HA2	2.48	0.47
1:G:640:LYS:HD2	1:G:646:PHE:O	2.15	0.47
1:J:689:GLU:O	1:J:689:GLU:HG2	2.14	0.47
1:M:84:MLY:HA	1:M:723:ARG:NH1	2.28	0.47
1:M:251:ARG:HB2	1:M:264:ASP:HB3	1.95	0.47
1:M:542:PHE:CD2	4:Z:143:TYR:CD1	3.02	0.47
1:M:640:LYS:HD2	1:M:646:PHE:O	2.14	0.47
1:P:10:PHE:CD2	1:P:17:LEU:HD23	2.49	0.47
1:P:194:GLN:HE21	1:P:194:GLN:HB3	1.43	0.47
1:P:309:PRO:C	1:P:311:ASP:H	2.22	0.47
1:P:542:PHE:CD2	4:0:143:TYR:CD1	3.02	0.47
1:P:640:LYS:HD2	1:P:646:PHE:O	2.14	0.47
3:R:53:PRO:O	3:R:55:LYS:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:120:THR:HG21	4:1:370:VAL:HG11	1.95	0.47
4:2:213:LYS:O	4:2:217:CYS:HB2	2.13	0.47
4:8:250:ILE:HG23	4:8:253:GLU:HG2	1.96	0.47
4:Y:162:ASN:OD1	4:Y:277:THR:HG22	2.15	0.47
1:A:122:PHE:CE2	1:A:700:VAL:HA	2.49	0.47
1:A:136:ASN:HA	1:A:137:PRO:HD3	1.49	0.47
1:A:501:GLU:C	1:A:762:HIS:CG	2.88	0.47
1:A:553:MLY:CG	4:V:47:MET:N	2.54	0.47
2:B:121:LEU:CA	2:B:128:PHE:CG	2.89	0.47
1:D:823:PHE:HD1	2:E:160:GLY:CA	2.23	0.47
1:G:106:LEU:HD12	1:G:117:THR:HG21	1.96	0.47
1:G:122:PHE:CE2	1:G:700:VAL:HA	2.50	0.47
1:G:154:HIS:CE1	1:G:156:PHE:CE2	3.02	0.47
1:G:544:LYS:HD2	4:V:147:ARG:CB	2.36	0.47
1:G:791:GLN:HE22	3:I:115:GLY:C	2.15	0.47
1:G:795:ARG:N	3:I:118:MET:HE1	2.25	0.47
2:H:121:LEU:O	2:H:128:PHE:CG	2.61	0.47
2:H:160:GLY:O	2:H:161:GLU:HG2	2.15	0.47
1:J:175:ILE:C	1:J:176:LEU:HD12	2.38	0.47
1:J:546:THR:CG2	1:J:547:ASP:N	2.77	0.47
1:J:675:ILE:CG2	1:J:676:ILE:N	2.74	0.47
1:M:538:GLU:HA	4:Z:351:THR:H	1.77	0.47
1:M:568:PRO:HD3	1:M:579:PHE:HA	1.96	0.47
2:N:160:GLY:O	2:N:161:GLU:HG2	2.14	0.47
1:P:206:LYS:CE	1:P:217:THR:HG23	2.30	0.47
1:P:821:ARG:NH2	2:Q:127:ARG:CD	2.77	0.47
1:P:836:PHE:CE1	2:Q:159:HIS:C	2.92	0.47
4:0:162:ASN:OD1	4:0:277:THR:HG22	2.15	0.47
4:2:120:THR:HG21	4:2:370:VAL:HG11	1.95	0.47
4:5:253:GLU:HA	4:5:256:ARG:CG	2.42	0.47
4:7:120:THR:HG21	4:7:370:VAL:HG11	1.95	0.47
4:9:120:THR:HG21	4:9:370:VAL:HG11	1.95	0.47
4:X:324:THR:OG1	4:Z:246:GLN:N	2.25	0.47
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.47
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.47
1:A:646:PHE:HE2	1:A:652:LEU:CG	2.24	0.47
1:A:831:TRP:HZ2	2:B:47:LEU:CA	2.15	0.47
1:D:188:ASN:ND2	1:D:674:CYS:SG	2.88	0.47
1:D:410:ASN:HD22	4:9:336:LYS:HE2	1.78	0.47
1:D:499:GLU:OE1	1:D:499:GLU:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:506:GLU:HG3	1:D:764:MLY:CE	2.44	0.47
1:D:524:GLU:HB3	1:D:528:MLY:HG2	1.97	0.47
1:D:549:SER:C	4:W:45:VAL:O	2.57	0.47
1:D:640:LYS:HD2	1:D:646:PHE:O	2.15	0.47
1:D:814:PHE:CA	2:E:127:ARG:NH1	2.64	0.47
1:D:830:PRO:HG2	2:E:67:MET:HE1	1.96	0.47
3:F:53:PRO:O	3:F:55:LYS:HG3	2.14	0.47
1:G:215:GLN:H	1:G:340:ILE:CD1	2.20	0.47
1:G:546:THR:CG2	1:G:547:ASP:N	2.77	0.47
1:G:689:GLU:O	1:G:689:GLU:HG2	2.14	0.47
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	0.47
2:H:112:ILE:CG2	2:H:147:ASN:O	2.62	0.47
1:J:166:MET:HE3	1:J:459:ILE:HG13	1.97	0.47
1:J:188:ASN:ND2	1:J:674:CYS:SG	2.88	0.47
1:J:406:VAL:CG1	1:J:407:GLY:N	2.77	0.47
1:J:724:TYR:HD1	1:J:727:LEU:CD1	2.27	0.47
1:J:747:LEU:C	1:J:749:GLY:N	2.71	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:831:TRP:NE1	2:N:67:MET:CG	2.75	0.47
1:P:541:MET:HE2	4:0:346:LEU:HD12	1.96	0.47
4:7:162:ASN:OD1	4:7:277:THR:HG22	2.15	0.47
4:W:217:CYS:C	4:W:218:TYR:HD1	2.22	0.47
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.47
1:A:218:LEU:HA	1:A:221:GLN:H	1.79	0.47
1:A:309:PRO:C	1:A:311:ASP:H	2.22	0.47
1:A:783:LEU:HA	1:A:786:ILE:HB	1.96	0.47
1:D:248:MLY:HE2	1:D:250:ILE:HD11	1.95	0.47
1:D:550:PHE:C	4:W:46:GLY:CA	2.88	0.47
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.47
2:E:160:GLY:O	2:E:161:GLU:HG2	2.14	0.47
2:E:163:ALA:C	2:K:22:THR:OG1	2.57	0.47
1:G:22:LYS:O	1:G:26:GLU:N	2.29	0.47
1:G:795:ARG:HB3	3:I:35:ARG:CZ	2.45	0.47
2:H:121:LEU:CA	2:H:128:PHE:CG	2.89	0.47
2:H:121:LEU:HA	2:H:128:PHE:CD2	2.47	0.47
1:J:564:ASN:HD22	1:J:582:VAL:HB	1.79	0.47
1:J:568:PRO:HD3	1:J:579:PHE:HA	1.96	0.47
2:K:121:LEU:HA	2:K:128:PHE:CD2	2.47	0.47
1:M:10:PHE:CD2	1:M:17:LEU:HD23	2.49	0.47
1:M:220:ASP:O	1:M:224:SER:N	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:402:CYS:C	1:M:404:PRO:HD3	2.40	0.47
1:M:436:MLY:HE3	1:M:626:TYR:HE1	1.77	0.47
1:M:559:LEU:HD23	1:M:560:GLY:N	2.30	0.47
1:M:642:LYS:CB	4:Z:24:ASP:O	2.60	0.47
1:P:122:PHE:CE2	1:P:700:VAL:HA	2.50	0.47
1:P:400:ALA:HB1	1:P:606:THR:CG2	2.45	0.47
4:1:162:ASN:OD1	4:1:277:THR:HG22	2.15	0.47
4:2:162:ASN:OD1	4:2:277:THR:HG22	2.15	0.47
4:3:287:ILE:HG21	4:5:204:ALA:N	2.28	0.47
4:9:217:CYS:C	4:9:218:TYR:HD1	2.23	0.47
4:W:162:ASN:OD1	4:W:277:THR:HG22	2.15	0.47
1:A:176:LEU:N	1:A:176:LEU:CD1	2.74	0.47
1:A:251:ARG:HB2	1:A:264:ASP:HB3	1.95	0.47
1:A:404:PRO:HD2	1:A:415:MLY:O	2.13	0.47
1:A:502:GLU:CA	1:A:761:GLY:HA2	2.37	0.47
1:A:564:ASN:HD22	1:A:582:VAL:HB	1.79	0.47
1:A:595:TRP:N	1:A:595:TRP:CD1	2.80	0.47
1:A:724:TYR:HD1	1:A:727:LEU:CD1	2.27	0.47
2:B:112:ILE:CG2	2:B:147:ASN:O	2.62	0.47
1:D:311:ASP:CB	1:D:312:TYR:CE1	2.98	0.47
1:D:400:ALA:HB1	1:D:606:THR:CG2	2.45	0.47
1:D:402:CYS:C	1:D:404:PRO:HD3	2.40	0.47
1:D:556:ASP:CA	4:W:49:GLN:O	2.52	0.47
1:D:636:LYS:O	4:9:144:ALA:HB1	2.15	0.47
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.92	0.47
1:D:783:LEU:HA	1:D:786:ILE:HB	1.96	0.47
1:D:831:TRP:CZ3	2:E:50:THR:CG2	2.97	0.47
2:E:112:ILE:CG2	2:E:147:ASN:O	2.62	0.47
3:F:52:ASN:CB	3:F:53:PRO:CD	2.92	0.47
1:G:202:SER:HA	1:G:207:LYS:NZ	2.22	0.47
1:G:251:ARG:HB2	1:G:264:ASP:HB3	1.95	0.47
1:G:402:CYS:C	1:G:404:PRO:HD3	2.40	0.47
1:G:406:VAL:CG1	1:G:407:GLY:N	2.77	0.47
1:G:542:PHE:CD2	4:V:143:TYR:CD1	3.03	0.47
1:G:553:MLY:HH12	4:X:45:VAL:CG1	2.29	0.47
1:G:602:PRO:O	1:G:603:LEU:HD12	2.14	0.47
1:G:635:GLY:HA3	4:V:334:GLU:CG	2.30	0.47
1:G:695:LEU:HB3	1:G:701:LEU:HD22	1.97	0.47
1:G:747:LEU:C	1:G:749:GLY:N	2.71	0.47
1:J:154:HIS:CE1	1:J:156:PHE:CE2	3.02	0.47
1:J:400:ALA:HB1	1:J:606:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:406:VAL:CG1	1:J:407:GLY:H	2.28	0.47
1:J:519:LEU:N	1:J:519:LEU:CD1	2.77	0.47
1:J:524:GLU:HB3	1:J:528:MLY:HG2	1.97	0.47
1:J:530:MET:HA	4:W:354:GLN:CD	2.11	0.47
1:J:602:PRO:O	1:J:603:LEU:HD12	2.14	0.47
1:J:643:GLY:N	4:W:23:GLY:C	2.55	0.47
1:J:664:LEU:HD12	1:J:664:LEU:HA	1.52	0.47
1:J:732:ILE:CG2	1:J:747:LEU:CD1	0.65	0.47
1:J:800:ARG:HB3	3:L:149:VAL:HG13	1.97	0.47
3:L:53:PRO:O	3:L:55:LYS:HG3	2.14	0.47
1:M:28:GLN:OE1	1:M:723:ARG:NH1	2.48	0.47
1:M:154:HIS:CE1	1:M:156:PHE:CE2	3.02	0.47
1:M:176:LEU:N	1:M:176:LEU:CD1	2.75	0.47
1:M:248:MLY:HE2	1:M:250:ILE:HD11	1.95	0.47
1:M:602:PRO:O	1:M:603:LEU:HD12	2.14	0.47
1:M:637:LYS:HD2	4:Z:144:ALA:HB3	1.20	0.47
1:M:707:CYS:SG	1:M:714:ARG:NH1	2.88	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
1:M:786:ILE:N	1:M:787:ILE:N	2.62	0.47
1:M:795:ARG:HG2	3:O:118:MET:HE3	1.73	0.47
1:M:836:PHE:CE1	2:N:159:HIS:C	2.92	0.47
3:O:50:LEU:O	3:O:53:PRO:CD	2.63	0.47
1:P:41:VAL:CG1	1:P:42:HIS:N	2.75	0.47
1:P:84:MLY:CH1	1:P:724:TYR:CE2	2.95	0.47
1:P:106:LEU:HD12	1:P:117:THR:HG21	1.96	0.47
1:P:175:ILE:C	1:P:176:LEU:HD12	2.38	0.47
1:P:218:LEU:HA	1:P:221:GLN:H	1.79	0.47
1:P:406:VAL:CG1	1:P:407:GLY:N	2.77	0.47
1:P:538:GLU:HA	4:0:351:THR:H	1.77	0.47
1:P:568:PRO:HD3	1:P:579:PHE:HA	1.96	0.47
1:P:783:LEU:N	1:P:783:LEU:CD1	2.78	0.47
1:P:786:ILE:N	1:P:787:ILE:N	2.63	0.47
2:Q:112:ILE:CG2	2:Q:147:ASN:O	2.62	0.47
4:1:203:THR:OG1	4:Z:288:ASP:OD2	2.33	0.47
4:1:217:CYS:C	4:1:218:TYR:HD1	2.22	0.47
4:1:244:ASP:HA	4:Z:324:THR:N	2.22	0.47
4:2:253:GLU:HA	4:2:256:ARG:CG	2.42	0.47
4:3:162:ASN:OD1	4:3:277:THR:HG22	2.15	0.47
4:8:217:CYS:C	4:8:218:TYR:HD1	2.23	0.47
4:W:120:THR:HG21	4:W:370:VAL:HG11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:286:ASP:HA	4:Y:202:THR:HG22	1.32	0.47
4:W:325:MET:SD	4:Y:244:ASP:OD2	2.73	0.47
4:X:217:CYS:C	4:X:218:TYR:HD1	2.22	0.47
4:Y:120:THR:HG21	4:Y:370:VAL:HG11	1.95	0.47
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.47
1:A:406:VAL:CG1	1:A:407:GLY:H	2.28	0.47
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.47
1:D:543:PRO:HD2	4:9:146:GLY:O	2.15	0.47
1:D:695:LEU:HB3	1:D:701:LEU:HD22	1.97	0.47
1:D:823:PHE:CD1	2:E:156:VAL:O	2.67	0.47
1:G:136:ASN:HA	1:G:137:PRO:HD3	1.49	0.47
1:G:404:PRO:HD2	1:G:415:MLY:O	2.13	0.47
1:G:784:ALA:O	1:G:788:THR:CA	2.61	0.47
2:H:137:TRP:CZ3	2:H:145:ALA:N	2.81	0.47
1:J:84:MLY:CH2	1:J:719:ASP:C	2.88	0.47
1:J:84:MLY:O	1:J:723:ARG:HD2	2.03	0.47
1:J:311:ASP:CB	1:J:312:TYR:CE1	2.98	0.47
1:J:793:ARG:HH21	3:L:147:MET:CE	2.11	0.47
1:M:541:MET:HE2	4:Z:346:LEU:HD12	1.96	0.47
1:P:188:ASN:ND2	1:P:674:CYS:SG	2.88	0.47
2:Q:137:TRP:CZ3	2:Q:145:ALA:N	2.81	0.47
2:Q:160:GLY:O	2:Q:161:GLU:HG2	2.14	0.47
3:R:50:LEU:O	3:R:53:PRO:CD	2.63	0.47
4:0:120:THR:HG21	4:0:370:VAL:HG11	1.95	0.47
4:0:217:CYS:C	4:0:218:TYR:HD1	2.23	0.47
4:3:217:CYS:C	4:3:218:TYR:HD1	2.22	0.47
4:8:162:ASN:OD1	4:8:277:THR:HG22	2.15	0.47
4:9:162:ASN:OD1	4:9:277:THR:HG22	2.15	0.47
4:V:217:CYS:C	4:V:218:TYR:HD1	2.22	0.47
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.23	0.47
1:A:106:LEU:HD12	1:A:117:THR:HG21	1.96	0.47
1:A:202:SER:HA	1:A:207:LYS:NZ	2.22	0.47
1:A:732:ILE:CG2	1:A:747:LEU:CD1	0.65	0.47
1:D:406:VAL:CG1	1:D:407:GLY:N	2.77	0.47
1:D:629:GLU:CB	1:D:645:SER:N	2.74	0.47
1:D:723:ARG:HH11	1:D:723:ARG:HG3	1.79	0.47
1:D:732:ILE:HG23	1:D:747:LEU:HD12	0.95	0.47
2:E:117:LEU:HG	2:E:147:ASN:HB3	1.93	0.47
3:F:50:LEU:O	3:F:53:PRO:CD	2.63	0.47
1:G:148:ARG:CZ	1:G:764:MLY:HH21	2.45	0.47
1:G:218:LEU:HA	1:G:221:GLN:H	1.79	0.47

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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	0.47
1:G:559:LEU:HD23	1:G:560:GLY:N	2.30	0.47
1:G:664:LEU:HD12	1:G:664:LEU:HA	1.53	0.47
3:I:53:PRO:O	3:I:55:LYS:HG3	2.15	0.47
1:J:122:PHE:CE2	1:J:700:VAL:HA	2.50	0.47
1:J:402:CYS:C	1:J:404:PRO:HD3	2.40	0.47
1:J:496:PHE:CE2	1:J:514:ASP:HA	2.50	0.47
1:J:578:HIS:HB3	1:J:592:ILE:CD1	2.38	0.47
1:J:795:ARG:HB2	3:L:35:ARG:HH11	1.74	0.47
1:M:194:GLN:HE21	1:M:194:GLN:HB3	1.44	0.47
1:M:202:SER:HA	1:M:207:LYS:NZ	2.22	0.47
1:P:42:HIS:O	1:P:45:GLN:O	2.33	0.47
1:P:411:GLU:H	4:0:333:PRO:HB2	1.80	0.47
1:P:747:LEU:C	1:P:749:GLY:N	2.71	0.47
4:0:173:HIS:HB3	4:1:267:ILE:HA	1.97	0.47
4:2:217:CYS:C	4:2:218:TYR:HD1	2.22	0.47
4:7:253:GLU:HA	4:7:256:ARG:CG	2.42	0.47
4:8:287:ILE:CB	4:V:204:ALA:H	2.13	0.47
4:V:253:GLU:HA	4:V:256:ARG:CG	2.42	0.47
1:A:400:ALA:HB1	1:A:606:THR:CG2	2.45	0.47
1:A:499:GLU:CD	1:A:766:PHE:CE2	2.92	0.47
1:A:636:LYS:O	4:8:144:ALA:HB1	2.15	0.47
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.94	0.47
1:D:30:MLY:HB3	1:D:31:PRO:HD2	1.97	0.47
1:D:715:VAL:HG11	1:D:720:PHE:CD1	2.50	0.47
1:D:783:LEU:N	1:D:783:LEU:CD1	2.78	0.47
1:G:188:ASN:ND2	1:G:674:CYS:SG	2.88	0.47
1:G:543:PRO:HD2	4:V:146:GLY:O	2.15	0.47
1:G:595:TRP:N	1:G:595:TRP:CD1	2.80	0.47
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.24	0.47
1:G:732:ILE:HG21	1:G:747:LEU:CD1	0.64	0.47
1:J:218:LEU:HA	1:J:221:GLN:H	1.79	0.47
1:J:554:LEU:HD12	1:J:554:LEU:HA	1.77	0.47
1:M:309:PRO:C	1:M:311:ASP:H	2.22	0.47
1:M:543:PRO:HD2	4:Z:146:GLY:O	2.15	0.47
1:M:643:GLY:CA	4:Z:24:ASP:OD1	2.62	0.47
1:P:564:ASN:HD22	1:P:582:VAL:HB	1.79	0.47
1:P:578:HIS:HB3	1:P:592:ILE:CD1	2.38	0.47
1:P:714:ARG:HD3	1:P:766:PHE:CE2	2.50	0.47
4:V:162:ASN:OD1	4:V:277:THR:HG22	2.15	0.47
1:A:144:ARG:HA	1:A:144:ARG:HD2	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:GLU:HB3	1:A:528:MLY:HG2	1.96	0.46
1:A:818:TYR:HB3	2:B:89:LYS:C	2.40	0.46
2:B:88:LEU:HB3	2:B:91:ALA:HB2	1.97	0.46
1:D:406:VAL:CG1	1:D:407:GLY:H	2.28	0.46
1:D:496:PHE:CE2	1:D:514:ASP:HA	2.50	0.46
1:D:714:ARG:HD3	1:D:766:PHE:CE2	2.50	0.46
1:G:214:MET:HA	1:G:340:ILE:CD1	2.41	0.46
1:G:541:MET:HE2	4:V:346:LEU:HD12	1.96	0.46
1:G:568:PRO:HD3	1:G:579:PHE:HA	1.97	0.46
1:G:637:LYS:HD2	4:V:144:ALA:HB3	1.20	0.46
1:G:793:ARG:O	1:G:797:PHE:N	2.39	0.46
2:H:137:TRP:CA	2:H:145:ALA:HB2	2.37	0.46
3:I:50:LEU:O	3:I:53:PRO:CD	2.63	0.46
1:J:42:HIS:O	1:J:45:GLN:O	2.33	0.46
1:J:97:LEU:HD22	1:J:712:PRO:CB	2.42	0.46
1:J:248:MLY:HE2	1:J:250:ILE:HD11	1.95	0.46
1:J:374:GLN:NE2	1:J:403:TYR:CE1	2.84	0.46
1:J:499:GLU:OE1	1:J:499:GLU:HA	2.13	0.46
1:J:821:ARG:CZ	2:K:127:ARG:CD	2.92	0.46
2:K:137:TRP:CZ3	2:K:145:ALA:N	2.81	0.46
1:M:406:VAL:CG1	1:M:407:GLY:H	2.28	0.46
1:M:661:MET:HE3	1:M:661:MET:HB3	1.75	0.46
1:M:783:LEU:CD1	1:M:783:LEU:N	2.78	0.46
2:N:112:ILE:CG2	2:N:147:ASN:O	2.62	0.46
1:P:374:GLN:NE2	1:P:403:TYR:CE1	2.84	0.46
1:P:554:LEU:HD12	1:P:554:LEU:HA	1.77	0.46
1:P:602:PRO:O	1:P:603:LEU:HD12	2.14	0.46
1:P:730:SER:H	3:R:93:VAL:HG23	1.73	0.46
1:P:798:LEU:HD12	3:R:126:LEU:CD2	2.32	0.46
4:0:244:ASP:N	4:Y:291:LYS:HE2	0.24	0.46
4:4:162:ASN:OD1	4:4:277:THR:HG22	2.15	0.46
4:5:217:CYS:C	4:5:218:TYR:HD1	2.23	0.46
1:A:87:MLY:HH12	1:A:87:MLY:HD3	1.62	0.46
1:A:265:ILE:CG2	1:A:266:GLU:N	2.78	0.46
1:A:508:ILE:HD11	1:A:759:ALA:C	2.40	0.46
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.96	0.46
1:A:559:LEU:HD23	1:A:560:GLY:N	2.30	0.46
2:B:160:GLY:O	2:B:161:GLU:HG2	2.14	0.46
1:D:122:PHE:CE2	1:D:700:VAL:HA	2.50	0.46
1:D:166:MET:HE3	1:D:459:ILE:HG13	1.96	0.46
1:D:221:GLN:HG2	1:D:221:GLN:H	1.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:541:MET:CG	4:9:345:ILE:C	2.87	0.46
1:G:93:MET:HG3	1:G:714:ARG:HG3	1.98	0.46
1:G:408:VAL:HG22	1:G:636:LYS:HG2	1.51	0.46
1:J:640:LYS:HD2	1:J:646:PHE:O	2.15	0.46
1:J:797:PHE:HE2	3:L:126:LEU:HD13	1.81	0.46
2:K:137:TRP:CA	2:K:145:ALA:CB	2.82	0.46
1:M:87:MLY:HH12	1:M:87:MLY:HD3	1.61	0.46
1:P:248:MLY:HE2	1:P:250:ILE:HD11	1.95	0.46
1:P:311:ASP:CB	1:P:312:TYR:CE1	2.98	0.46
1:P:496:PHE:CE2	1:P:514:ASP:HA	2.50	0.46
1:P:503:TYR:OH	1:P:711:PHE:CD2	2.31	0.46
1:P:559:LEU:HD23	1:P:560:GLY:N	2.30	0.46
1:P:712:PRO:HB2	1:P:713:SER:H	1.61	0.46
4:0:166:TYR:OH	4:2:64:ILE:CD1	2.59	0.46
1:A:42:HIS:O	1:A:45:GLN:O	2.33	0.46
1:A:504:MLY:C	1:A:762:HIS:HE2	2.26	0.46
1:A:543:PRO:HD2	4:8:146:GLY:O	2.15	0.46
1:A:568:PRO:HD3	1:A:579:PHE:HA	1.96	0.46
1:A:640:LYS:HB3	1:A:645:SER:CB	2.42	0.46
3:C:53:PRO:O	3:C:55:LYS:HG3	2.15	0.46
1:D:42:HIS:O	1:D:45:GLN:O	2.33	0.46
1:D:540:CYS:N	4:9:349:LEU:HD11	2.31	0.46
1:D:768:MLY:O	1:D:771:LEU:HD11	2.05	0.46
1:G:139:VAL:HG12	1:G:143:TYR:HD2	1.81	0.46
1:G:418:THR:CB	1:G:421:GLU:HG3	2.37	0.46
1:G:636:LYS:O	4:V:144:ALA:HB1	2.14	0.46
1:G:829:TRP:HE1	2:H:70:GLU:CD	2.24	0.46
1:J:106:LEU:HD12	1:J:117:THR:HG21	1.96	0.46
1:J:529:PRO:HB2	4:W:354:GLN:HB3	1.97	0.46
1:J:543:PRO:HD2	4:W:146:GLY:O	2.15	0.46
1:J:559:LEU:HD23	1:J:560:GLY:N	2.30	0.46
1:J:765:VAL:CG1	1:J:766:PHE:N	2.77	0.46
1:J:839:MLY:HH13	2:K:159:HIS:HD2	1.81	0.46
1:M:41:VAL:CG1	1:M:42:HIS:N	2.75	0.46
1:M:265:ILE:CG2	1:M:266:GLU:N	2.78	0.46
1:M:664:LEU:HD12	1:M:664:LEU:HA	1.52	0.46
1:M:747:LEU:C	1:M:749:GLY:N	2.71	0.46
1:P:82:PRO:HG2	1:P:85:TYR:CE2	2.50	0.46
1:P:402:CYS:C	1:P:404:PRO:HD3	2.40	0.46
1:P:725:ARG:NE	1:P:733:PRO:CB	1.95	0.46
1:P:795:ARG:NE	3:R:116:GLU:CB	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:6:THR:HG22	4:0:101:HIS:HA	1.98	0.46
4:0:166:TYR:OH	4:2:64:ILE:CB	2.64	0.46
4:W:6:THR:HG22	4:W:101:HIS:HA	1.98	0.46
1:A:188:ASN:ND2	1:A:674:CYS:SG	2.88	0.46
1:A:411:GLU:H	4:8:333:PRO:HB2	1.80	0.46
1:A:715:VAL:CG1	1:A:720:PHE:HB2	2.46	0.46
1:D:82:PRO:HG2	1:D:85:TYR:CE2	2.50	0.46
1:D:374:GLN:NE2	1:D:403:TYR:CE1	2.84	0.46
1:D:543:PRO:CD	4:9:143:TYR:O	2.64	0.46
1:D:640:LYS:HB3	1:D:645:SER:CB	2.42	0.46
1:D:642:LYS:HB2	4:9:24:ASP:O	1.88	0.46
1:D:732:ILE:CG2	1:D:747:LEU:CD1	0.65	0.46
1:G:411:GLU:H	4:V:333:PRO:HB2	1.80	0.46
2:H:117:LEU:CB	2:H:147:ASN:ND2	2.35	0.46
1:J:82:PRO:HG2	1:J:85:TYR:CE2	2.50	0.46
1:J:309:PRO:C	1:J:311:ASP:H	2.22	0.46
1:J:783:LEU:N	1:J:783:LEU:CD1	2.78	0.46
1:J:817:GLN:HG2	2:K:127:ARG:CG	2.44	0.46
2:K:149:ASP:CG	2:K:150:TYR:N	2.49	0.46
1:M:139:VAL:HG12	1:M:143:TYR:HD2	1.81	0.46
1:M:839:MLY:HH11	2:N:158:THR:HG22	1.96	0.46
1:P:166:MET:HE3	1:P:459:ILE:HG13	1.96	0.46
1:P:503:TYR:CZ	1:P:711:PHE:CE2	3.01	0.46
1:P:543:PRO:HD2	4:0:146:GLY:O	2.15	0.46
1:P:797:PHE:CE1	3:R:149:VAL:HG11	2.48	0.46
4:8:288:ASP:CG	4:V:203:THR:C	2.83	0.46
4:9:6:THR:HG22	4:9:101:HIS:HA	1.98	0.46
4:Y:6:THR:HG22	4:Y:101:HIS:HA	1.98	0.46
1:A:374:GLN:NE2	1:A:403:TYR:CE1	2.84	0.46
1:A:642:LYS:CB	4:8:24:ASP:O	2.59	0.46
1:A:665:ARG:C	1:A:667:THR:N	2.74	0.46
1:A:695:LEU:HB3	1:A:701:LEU:HD22	1.97	0.46
2:B:144:VAL:HG12	2:B:153:ILE:HD13	1.92	0.46
1:D:206:LYS:HD3	1:D:217:THR:OG1	2.16	0.46
1:D:218:LEU:HA	1:D:221:GLN:H	1.79	0.46
1:D:322:VAL:HB	1:D:325:ILE:HG13	1.98	0.46
1:D:529:PRO:HB2	4:9:354:GLN:HB3	1.98	0.46
1:D:725:ARG:CG	1:D:733:PRO:HA	2.43	0.46
1:D:831:TRP:HH2	2:E:47:LEU:HA	1.71	0.46
2:E:137:TRP:CZ3	2:E:145:ALA:N	2.81	0.46
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:524:GLU:HB3	1:G:528:MLY:HG2	1.96	0.46
1:G:640:LYS:HB3	1:G:645:SER:CB	2.42	0.46
1:G:835:PHE:CE1	2:H:30:ALA:HB2	2.51	0.46
1:J:93:MET:HG2	1:J:715:VAL:CA	2.41	0.46
1:J:206:LYS:HD3	1:J:217:THR:OG1	2.16	0.46
1:J:534:SER:HB2	4:W:354:GLN:HE22	1.56	0.46
1:J:540:CYS:N	4:W:349:LEU:HD11	2.31	0.46
1:J:541:MET:CG	4:W:345:ILE:C	2.87	0.46
2:K:160:GLY:O	2:K:161:GLU:HG2	2.14	0.46
1:M:188:ASN:ND2	1:M:674:CYS:SG	2.88	0.46
1:M:714:ARG:HD3	1:M:766:PHE:CE2	2.50	0.46
2:Q:140:PHE:HA	2:Q:141:PRO:HD2	1.56	0.46
1:A:541:MET:SD	4:8:345:ILE:C	2.95	0.46
1:A:543:PRO:CD	4:8:143:TYR:O	2.64	0.46
1:A:714:ARG:HD3	1:A:766:PHE:CE2	2.50	0.46
1:A:796:GLY:HA3	3:C:40:ASN:OD1	2.16	0.46
1:D:410:ASN:HA	4:9:334:GLU:HB3	1.29	0.46
1:D:715:VAL:CG1	1:D:720:PHE:HB2	2.46	0.46
1:D:739:ASP:OD1	1:D:739:ASP:C	2.58	0.46
1:G:374:GLN:NE2	1:G:403:TYR:CE1	2.84	0.46
1:G:400:ALA:HB1	1:G:606:THR:CG2	2.45	0.46
1:G:715:VAL:CG1	1:G:720:PHE:HB2	2.45	0.46
1:G:829:TRP:CZ2	2:H:83:MET:CE	2.97	0.46
1:G:835:PHE:O	1:G:839:MLY:N	2.49	0.46
1:J:83:PRO:O	1:J:723:ARG:CZ	2.62	0.46
1:J:202:SER:HA	1:J:207:LYS:NZ	2.22	0.46
1:J:732:ILE:CG2	1:J:747:LEU:HD12	0.35	0.46
1:M:715:VAL:HG11	1:M:720:PHE:CD1	2.50	0.46
1:M:715:VAL:CG1	1:M:720:PHE:HB2	2.45	0.46
1:P:215:GLN:H	1:P:340:ILE:CD1	2.20	0.46
1:P:765:VAL:CG1	1:P:766:PHE:N	2.77	0.46
1:P:839:MLY:HH11	2:Q:158:THR:CG2	2.46	0.46
4:0:366:GLY:O	4:0:369:ILE:HG22	2.16	0.46
1:A:326:ASP:O	1:A:330:GLU:HG2	2.16	0.46
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.46
1:A:629:GLU:CB	1:A:645:SER:N	2.74	0.46
1:A:664:LEU:HD12	1:A:664:LEU:HA	1.53	0.46
1:A:797:PHE:CE1	3:C:146:ILE:CB	2.98	0.46
1:A:810:ARG:HG2	1:A:810:ARG:NH1	2.29	0.46
1:D:136:ASN:O	1:D:139:VAL:N	2.47	0.46
1:D:335:ASP:OD1	1:D:348:MLY:NZ	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:629:GLU:HB3	1:D:643:GLY:C	2.41	0.46
1:G:311:ASP:CB	1:G:312:TYR:CE1	2.98	0.46
1:G:326:ASP:O	1:G:330:GLU:HG2	2.16	0.46
1:G:410:ASN:HA	4:V:334:GLU:HB3	1.28	0.46
1:G:752:ASP:CB	1:G:783:LEU:HB2	2.46	0.46
1:J:30:MLY:HB3	1:J:31:PRO:HD2	1.97	0.46
1:J:218:LEU:HD22	1:J:222:ILE:HG13	1.95	0.46
1:J:714:ARG:HD3	1:J:766:PHE:CE2	2.50	0.46
1:M:529:PRO:HB2	4:Z:354:GLN:HB3	1.98	0.46
1:M:795:ARG:HE	3:O:118:MET:HE2	1.79	0.46
1:P:206:LYS:HD3	1:P:217:THR:OG1	2.16	0.46
1:P:335:ASP:OD1	1:P:348:MLY:NZ	2.49	0.46
1:P:529:PRO:HB2	4:0:354:GLN:HB3	1.98	0.46
1:P:540:CYS:N	4:0:349:LEU:HD11	2.31	0.46
1:P:632:GLY:HA3	1:P:643:GLY:N	2.17	0.46
1:P:821:ARG:HH22	2:Q:127:ARG:NE	2.14	0.46
2:Q:114:LYS:CG	2:Q:146:GLY:HA2	2.46	0.46
1:A:93:MET:CE	1:A:715:VAL:CB	2.83	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:418:THR:CG2	1:A:419:VAL:N	2.79	0.46
1:A:464:ILE:CG2	1:A:465:ALA:N	2.79	0.46
2:B:114:LYS:CG	2:B:146:GLY:HA2	2.46	0.46
1:D:97:LEU:HD12	1:D:97:LEU:HA	1.67	0.46
1:D:508:ILE:HD13	1:D:766:PHE:CD2	2.51	0.46
1:D:595:TRP:N	1:D:595:TRP:CD1	2.80	0.46
1:D:661:MET:HE3	1:D:661:MET:HB3	1.75	0.46
1:D:708:ARG:CA	1:D:710:GLY:N	2.78	0.46
1:D:831:TRP:CE2	2:E:47:LEU:HD22	2.51	0.46
2:E:114:LYS:CG	2:E:146:GLY:HA2	2.46	0.46
1:G:82:PRO:HG2	1:G:85:TYR:CE2	2.50	0.46
1:G:93:MET:CG	1:G:714:ARG:CA	2.76	0.46
1:G:206:LYS:HD3	1:G:217:THR:OG1	2.16	0.46
1:G:335:ASP:OD1	1:G:348:MLY:NZ	2.49	0.46
1:J:93:MET:CG	1:J:715:VAL:HA	2.45	0.46
1:J:206:LYS:HD2	1:J:217:THR:CG2	2.17	0.46
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.46
1:M:84:MLY:HD3	1:M:723:ARG:HD3	1.96	0.46
1:M:311:ASP:CB	1:M:312:TYR:CE1	2.98	0.46
1:M:553:MLY:HG2	4:1:43:VAL:CG1	2.45	0.46
1:M:659:MLY:HH22	1:M:659:MLY:HD2	1.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:732:ILE:CG2	1:M:747:LEU:CD1	0.65	0.46
1:M:795:ARG:CZ	3:O:116:GLU:CD	2.84	0.46
1:P:541:MET:SD	4:0:345:ILE:C	2.95	0.46
1:P:715:VAL:CG1	1:P:720:PHE:HB2	2.45	0.46
1:P:803:TYR:HE2	3:R:17:PHE:CZ	2.34	0.46
4:7:288:ASP:CG	4:9:203:THR:C	2.83	0.46
4:8:288:ASP:CA	4:V:204:ALA:HB2	2.31	0.46
4:W:366:GLY:O	4:W:369:ILE:HG22	2.16	0.46
4:Y:366:GLY:O	4:Y:369:ILE:HG22	2.16	0.46
1:A:311:ASP:CB	1:A:312:TYR:CE1	2.98	0.46
3:C:52:ASN:CB	3:C:53:PRO:HD3	2.28	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.78	0.46
1:D:665:ARG:C	1:D:667:THR:N	2.74	0.46
1:J:361:TYR:O	1:J:364:LEU:HB2	2.16	0.46
1:J:838:ILE:CD1	2:K:54:MET:HE1	2.21	0.46
1:M:524:GLU:HB3	1:M:528:MLY:HG2	1.97	0.46
1:M:540:CYS:N	4:Z:349:LEU:HD11	2.31	0.46
1:M:817:GLN:CD	2:N:127:ARG:CG	2.89	0.46
1:P:322:VAL:HB	1:P:325:ILE:HG13	1.98	0.46
1:P:783:LEU:C	1:P:786:ILE:HG13	2.41	0.46
1:P:795:ARG:CG	3:R:118:MET:CE	2.34	0.46
4:1:223:PHE:CD2	4:1:259:GLU:HG3	2.51	0.46
4:2:6:THR:HG22	4:2:101:HIS:HA	1.98	0.46
4:2:366:GLY:O	4:2:369:ILE:HG22	2.16	0.46
4:4:6:THR:HG22	4:4:101:HIS:HA	1.97	0.46
4:4:190:MET:O	4:4:194:THR:HG23	2.16	0.46
4:5:162:ASN:OD1	4:5:277:THR:HG22	2.15	0.46
4:7:6:THR:HG22	4:7:101:HIS:HA	1.98	0.46
4:X:324:THR:CG2	4:Z:246:GLN:C	2.80	0.46
1:A:82:PRO:HG2	1:A:85:TYR:CE2	2.50	0.46
1:A:322:VAL:HB	1:A:325:ILE:HG13	1.98	0.46
1:A:496:PHE:CE2	1:A:514:ASP:HA	2.50	0.46
1:A:505:MLY:CB	1:A:762:HIS:N	2.79	0.46
1:A:793:ARG:O	1:A:797:PHE:N	2.39	0.46
1:A:797:PHE:CD2	3:C:146:ILE:HG23	2.46	0.46
1:D:99:GLU:N	1:D:100:PRO:CD	2.79	0.46
1:D:559:LEU:HD23	1:D:560:GLY:N	2.30	0.46
1:D:794:CYS:O	1:D:797:PHE:HB3	2.16	0.46
1:G:265:ILE:CG2	1:G:266:GLU:N	2.78	0.46
1:G:361:TYR:O	1:G:364:LEU:HB2	2.16	0.46
1:G:436:MLY:HE3	1:G:626:TYR:HE1	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:665:ARG:C	1:G:667:THR:N	2.74	0.46
1:G:725:ARG:HH21	1:G:733:PRO:HB2	1.81	0.46
1:G:750:GLY:HA3	3:I:114:LEU:HD22	1.96	0.46
1:G:823:PHE:CE1	2:H:156:VAL:O	2.69	0.46
1:G:834:LEU:CD2	2:H:34:ILE:HD11	2.46	0.46
2:H:88:LEU:HB3	2:H:91:ALA:HB2	1.98	0.46
1:J:265:ILE:CG2	1:J:266:GLU:N	2.79	0.46
1:J:330:GLU:O	1:J:333:ALA:HB3	2.16	0.46
1:J:791:GLN:NE2	3:L:116:GLU:H	2.13	0.46
1:J:810:ARG:HG2	1:J:810:ARG:NH1	2.29	0.46
2:K:88:LEU:HB3	2:K:91:ALA:HB2	1.98	0.46
2:K:112:ILE:O	2:K:148:VAL:HA	2.17	0.46
3:L:50:LEU:O	3:L:53:PRO:CD	2.63	0.46
1:M:206:LYS:HD3	1:M:217:THR:OG1	2.16	0.46
1:M:374:GLN:NE2	1:M:403:TYR:CE1	2.84	0.46
1:M:496:PHE:CE2	1:M:514:ASP:HA	2.50	0.46
1:M:541:MET:SD	4:Z:345:ILE:C	2.95	0.46
1:M:642:LYS:HB3	4:Z:24:ASP:HB2	1.37	0.46
1:M:695:LEU:HB3	1:M:701:LEU:HD22	1.97	0.46
1:M:795:ARG:CD	3:O:118:MET:CE	2.75	0.46
2:N:88:LEU:HB3	2:N:91:ALA:HB2	1.98	0.46
1:P:202:SER:HA	1:P:207:LYS:NZ	2.22	0.46
1:P:361:TYR:O	1:P:364:LEU:HB2	2.16	0.46
1:P:739:ASP:OD1	1:P:739:ASP:C	2.58	0.46
4:5:6:THR:HG22	4:5:101:HIS:HA	1.97	0.46
4:5:190:MET:O	4:5:194:THR:HG23	2.16	0.46
4:9:366:GLY:O	4:9:369:ILE:HG22	2.16	0.46
4:W:253:GLU:HA	4:W:256:ARG:CG	2.42	0.46
1:A:783:LEU:N	1:A:783:LEU:CD1	2.79	0.45
3:C:50:LEU:O	3:C:53:PRO:CD	2.63	0.45
1:D:202:SER:HA	1:D:207:LYS:NZ	2.22	0.45
1:G:41:VAL:CG1	1:G:42:HIS:N	2.75	0.45
1:G:42:HIS:O	1:G:45:GLN:O	2.33	0.45
1:G:144:ARG:HA	1:G:144:ARG:HD2	1.78	0.45
1:G:206:LYS:HD2	1:G:217:THR:CG2	2.17	0.45
1:G:210:GLN:C	1:G:211:SER:HG	2.16	0.45
1:G:322:VAL:HB	1:G:325:ILE:HG13	1.98	0.45
1:G:464:ILE:CG2	1:G:465:ALA:N	2.80	0.45
1:G:543:PRO:CD	4:V:143:TYR:O	2.65	0.45
1:J:510:TRP:CZ2	1:J:772:LEU:HD11	2.51	0.45
1:J:725:ARG:HH21	1:J:733:PRO:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:361:TYR:O	1:M:364:LEU:HB2	2.16	0.45
1:M:639:GLY:CA	4:Z:344:SER:O	2.39	0.45
1:M:640:LYS:HB3	1:M:645:SER:CB	2.42	0.45
1:M:667:THR:O	1:M:669:PRO:HD3	2.17	0.45
3:O:53:PRO:O	3:O:55:LYS:HG3	2.15	0.45
1:P:723:ARG:CG	1:P:723:ARG:NH1	2.79	0.45
1:P:817:GLN:CD	2:Q:127:ARG:CG	2.89	0.45
4:2:190:MET:O	4:2:194:THR:HG23	2.16	0.45
4:3:190:MET:O	4:3:194:THR:HG23	2.16	0.45
4:7:366:GLY:O	4:7:369:ILE:HG22	2.16	0.45
4:W:190:MET:O	4:W:194:THR:HG23	2.16	0.45
4:W:223:PHE:CD2	4:W:259:GLU:HG3	2.51	0.45
4:Z:32:PRO:HB2	4:Z:34:ILE:HD11	1.98	0.45
1:A:30:MLY:HB3	1:A:31:PRO:HD2	1.97	0.45
1:A:139:VAL:HG12	1:A:143:TYR:HD2	1.81	0.45
1:A:725:ARG:NE	1:A:733:PRO:CB	1.95	0.45
1:A:747:LEU:C	1:A:749:GLY:N	2.71	0.45
1:D:476:GLU:OE2	1:D:598:MLY:HH13	2.16	0.45
1:G:30:MLY:HB3	1:G:31:PRO:HD2	1.97	0.45
1:G:540:CYS:N	4:V:349:LEU:HD11	2.31	0.45
1:G:795:ARG:CZ	3:I:116:GLU:OE2	2.64	0.45
1:J:94:MET:C	1:J:713:SER:CB	2.65	0.45
1:J:186:THR:O	1:J:190:MLY:HG2	2.17	0.45
1:J:335:ASP:OD1	1:J:348:MLY:NZ	2.49	0.45
1:J:695:LEU:HB3	1:J:701:LEU:HD22	1.97	0.45
1:M:42:HIS:O	1:M:45:GLN:O	2.33	0.45
1:M:82:PRO:HG2	1:M:85:TYR:CE2	2.50	0.45
1:M:106:LEU:HD12	1:M:117:THR:HG21	1.96	0.45
1:M:464:ILE:CG2	1:M:465:ALA:N	2.80	0.45
1:M:485:GLU:OE1	1:M:583:HIS:ND1	2.49	0.45
1:M:836:PHE:CD2	2:N:160:GLY:CA	2.99	0.45
1:P:406:VAL:CG1	1:P:407:GLY:H	2.28	0.45
1:P:410:ASN:HA	4:0:334:GLU:HB3	1.29	0.45
1:P:541:MET:CG	4:0:345:ILE:C	2.87	0.45
1:P:543:PRO:CD	4:0:143:TYR:O	2.64	0.45
1:P:544:LYS:CE	4:2:45:VAL:HG22	2.46	0.45
1:P:769:ALA:C	1:P:770:GLY:N	2.75	0.45
1:P:804:ARG:O	1:P:808:GLU:CB	2.64	0.45
4:3:223:PHE:CD2	4:3:259:GLU:HG3	2.51	0.45
4:W:287:ILE:HG13	4:Y:202:THR:HG23	1.72	0.45
1:A:41:VAL:CG1	1:A:42:HIS:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:93:MET:C	1:A:713:SER:CB	2.87	0.45
1:A:206:LYS:CE	1:A:217:THR:HG23	2.30	0.45
1:A:476:GLU:OE2	1:A:598:MLY:HH13	2.16	0.45
1:A:667:THR:O	1:A:669:PRO:HD3	2.16	0.45
1:A:723:ARG:CG	1:A:723:ARG:NH1	2.80	0.45
2:B:121:LEU:O	2:B:128:PHE:CG	2.61	0.45
1:D:411:GLU:H	4:9:333:PRO:CB	2.29	0.45
1:D:724:TYR:CE1	1:D:778:MET:CB	2.99	0.45
1:D:835:PHE:O	1:D:839:MLY:N	2.49	0.45
1:G:148:ARG:HE	1:G:764:MLY:CH2	2.28	0.45
1:J:642:LYS:NZ	4:W:340:TRP:O	2.50	0.45
1:J:725:ARG:HA	1:J:732:ILE:HG22	1.99	0.45
1:J:759:ALA:O	1:J:766:PHE:N	2.32	0.45
1:M:326:ASP:O	1:M:330:GLU:HG2	2.16	0.45
1:M:418:THR:CG2	1:M:419:VAL:N	2.79	0.45
1:P:330:GLU:O	1:P:333:ALA:HB3	2.16	0.45
1:P:785:GLU:CD	3:R:81:GLN:OE1	2.58	0.45
1:P:821:ARG:HH22	2:Q:127:ARG:HE	1.62	0.45
2:Q:112:ILE:O	2:Q:148:VAL:HA	2.17	0.45
4:5:47:MET:HE2	4:5:47:MET:HB2	1.79	0.45
4:7:288:ASP:CA	4:9:204:ALA:HB2	2.31	0.45
4:8:253:GLU:HA	4:8:256:ARG:CG	2.42	0.45
4:9:288:ASP:CG	4:W:203:THR:C	2.83	0.45
4:X:32:PRO:HB2	4:X:34:ILE:HD11	1.98	0.45
1:A:55:MLY:HH23	1:A:60:VAL:HG22	1.99	0.45
1:A:97:LEU:HD12	1:A:97:LEU:HA	1.67	0.45
1:A:106:LEU:HD12	1:A:106:LEU:HA	1.79	0.45
1:A:214:MET:HA	1:A:340:ILE:CD1	2.42	0.45
1:A:278:GLN:HE21	1:A:278:GLN:HB3	1.42	0.45
1:A:725:ARG:CG	1:A:733:PRO:HA	2.43	0.45
1:D:464:ILE:CG2	1:D:465:ALA:N	2.79	0.45
1:D:712:PRO:CG	1:D:771:LEU:HD13	2.47	0.45
1:D:724:TYR:HE1	1:D:779:ARG:N	2.12	0.45
1:D:732:ILE:CD1	1:D:782:MLY:CH2	2.94	0.45
1:G:55:MLY:HH23	1:G:60:VAL:HG22	1.99	0.45
1:G:186:THR:O	1:G:190:MLY:HG2	2.17	0.45
1:G:418:THR:CG2	1:G:419:VAL:N	2.79	0.45
1:J:476:GLU:OE2	1:J:598:MLY:HH13	2.16	0.45
1:J:642:LYS:CB	4:W:24:ASP:O	2.60	0.45
1:M:55:MLY:HH23	1:M:60:VAL:HG22	1.99	0.45
1:M:278:GLN:HE21	1:M:278:GLN:HB3	1.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:335:ASP:OD1	1:M:348:MLY:NZ	2.49	0.45
1:M:400:ALA:HB1	1:M:606:THR:CG2	2.45	0.45
1:M:782:MLY:CD	3:O:86:ASP:OD1	2.49	0.45
1:M:794:CYS:O	1:M:797:PHE:HB3	2.17	0.45
1:M:835:PHE:O	1:M:839:MLY:N	2.49	0.45
1:P:186:THR:O	1:P:190:MLY:HG2	2.17	0.45
1:P:642:LYS:NZ	4:0:340:TRP:O	2.50	0.45
1:P:695:LEU:HB3	1:P:701:LEU:HD22	1.97	0.45
2:Q:88:LEU:HB3	2:Q:91:ALA:HB2	1.98	0.45
4:1:366:GLY:O	4:1:369:ILE:HG22	2.16	0.45
4:3:366:GLY:O	4:3:369:ILE:HG22	2.16	0.45
4:4:223:PHE:CD2	4:4:259:GLU:HG3	2.51	0.45
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.45
4:9:47:MET:HE2	4:9:47:MET:HB2	1.79	0.45
4:9:223:PHE:CD2	4:9:259:GLU:HG3	2.51	0.45
4:X:6:THR:HG22	4:X:101:HIS:HA	1.98	0.45
4:Z:6:THR:HG22	4:Z:101:HIS:HA	1.98	0.45
1:A:296:MLY:O	1:A:299:LEU:HB2	2.17	0.45
1:A:529:PRO:HB2	4:8:354:GLN:HB3	1.98	0.45
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.45
1:A:701:LEU:HA	1:A:701:LEU:HD12	1.55	0.45
1:D:106:LEU:HD12	1:D:106:LEU:HA	1.79	0.45
1:D:179:GLY:O	1:D:185:LYS:HE2	2.17	0.45
1:D:326:ASP:O	1:D:330:GLU:HG2	2.16	0.45
1:D:332:MET:H	1:D:332:MET:HG2	1.52	0.45
1:D:632:GLY:HA3	1:D:643:GLY:N	2.17	0.45
1:G:173:GLN:HG3	1:G:670:HIS:HD2	1.82	0.45
1:G:332:MET:O	1:G:336:SER:OG	2.27	0.45
1:G:496:PHE:CE2	1:G:514:ASP:HA	2.50	0.45
1:G:529:PRO:HB2	4:V:354:GLN:HB3	1.98	0.45
1:G:783:LEU:N	1:G:783:LEU:CD1	2.78	0.45
2:H:112:ILE:O	2:H:148:VAL:HA	2.16	0.45
1:J:88:ILE:HG22	1:J:90:ASP:C	2.42	0.45
1:J:194:GLN:HE21	1:J:194:GLN:HB3	1.43	0.45
1:J:326:ASP:O	1:J:330:GLU:HG2	2.16	0.45
1:J:541:MET:SD	4:W:345:ILE:C	2.95	0.45
1:J:595:TRP:N	1:J:595:TRP:CD1	2.80	0.45
1:M:322:VAL:HB	1:M:325:ILE:HG13	1.98	0.45
1:M:725:ARG:CG	1:M:733:PRO:CA	2.95	0.45
1:M:753:VAL:HG13	1:M:775:LEU:HD21	1.96	0.45
1:M:786:ILE:C	1:M:789:ALA:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:793:ARG:O	1:M:797:PHE:N	2.39	0.45
1:M:829:TRP:CH2	2:N:84:PHE:CE1	3.04	0.45
1:P:265:ILE:CG2	1:P:266:GLU:N	2.79	0.45
1:P:476:GLU:OE2	1:P:598:MLY:HH13	2.16	0.45
1:P:524:GLU:HB3	1:P:528:MLY:HG2	1.97	0.45
1:P:673:ARG:HA	1:P:673:ARG:HD2	1.79	0.45
1:P:786:ILE:CG2	1:P:787:ILE:N	2.78	0.45
1:P:795:ARG:HG2	3:R:118:MET:HE1	0.57	0.45
1:P:839:MLY:HD2	2:Q:159:HIS:HB3	1.99	0.45
4:0:110:LEU:O	4:1:195:GLU:CB	2.64	0.45
4:3:6:THR:HG22	4:3:101:HIS:HA	1.98	0.45
1:A:179:GLY:O	1:A:185:LYS:HE2	2.17	0.45
1:A:819:ASN:OD1	2:B:92:ASP:N	2.32	0.45
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.45
1:D:103:LEU:HD22	1:D:692:LEU:HG	1.98	0.45
1:D:330:GLU:O	1:D:333:ALA:HB3	2.17	0.45
1:D:642:LYS:HB3	4:9:24:ASP:HB2	1.37	0.45
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
2:E:88:LEU:HB3	2:E:91:ALA:HB2	1.98	0.45
1:G:629:GLU:CB	1:G:645:SER:N	2.74	0.45
1:G:725:ARG:CG	1:G:733:PRO:HA	2.43	0.45
1:G:795:ARG:HA	3:I:118:MET:SD	2.57	0.45
1:J:173:GLN:HG3	1:J:670:HIS:HD2	1.82	0.45
1:J:640:LYS:HB3	1:J:645:SER:CB	2.41	0.45
1:J:715:VAL:CG1	1:J:720:PHE:HB2	2.45	0.45
1:M:84:MLY:CB	1:M:723:ARG:CZ	2.94	0.45
1:M:103:LEU:HD22	1:M:692:LEU:HG	1.98	0.45
1:M:214:MET:CA	1:M:340:ILE:HD11	2.45	0.45
1:M:408:VAL:CG1	4:Z:332:PRO:HB3	2.40	0.45
1:M:488:GLN:O	1:M:491:PHE:HB3	2.17	0.45
1:M:545:ALA:CA	4:1:45:VAL:HG11	2.19	0.45
1:M:646:PHE:HE2	1:M:652:LEU:CG	2.25	0.45
1:P:30:MLY:HB3	1:P:31:PRO:HD2	1.97	0.45
1:P:99:GLU:N	1:P:100:PRO:CD	2.80	0.45
1:P:326:ASP:O	1:P:330:GLU:HG2	2.16	0.45
1:P:725:ARG:HH21	1:P:733:PRO:HB2	1.81	0.45
2:Q:117:LEU:CG	2:Q:147:ASN:OD1	2.52	0.45
4:3:32:PRO:HB2	4:3:34:ILE:HD11	1.98	0.45
4:4:366:GLY:O	4:4:369:ILE:HG22	2.16	0.45
4:5:366:GLY:O	4:5:369:ILE:HG22	2.16	0.45
4:7:32:PRO:HB2	4:7:34:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:190:MET:O	4:7:194:THR:HG23	2.16	0.45
4:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	0.45
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.45
1:A:332:MET:H	1:A:332:MET:HG2	1.52	0.45
1:A:411:GLU:H	4:8:333:PRO:CB	2.30	0.45
1:A:642:LYS:HB3	4:8:24:ASP:HB2	1.37	0.45
1:A:642:LYS:NZ	4:8:340:TRP:O	2.50	0.45
1:A:836:PHE:CE2	2:B:160:GLY:N	2.81	0.45
1:D:88:ILE:HG22	1:D:90:ASP:C	2.42	0.45
1:D:296:MLY:O	1:D:299:LEU:HB2	2.17	0.45
1:G:476:GLU:OE2	1:G:598:MLY:HH13	2.17	0.45
1:G:597:GLU:O	1:G:600:MLY:N	2.50	0.45
1:G:639:GLY:CA	4:V:344:SER:O	2.40	0.45
1:G:642:LYS:NZ	4:V:340:TRP:O	2.50	0.45
1:G:714:ARG:HD3	1:G:766:PHE:CE2	2.50	0.45
1:J:179:GLY:O	1:J:185:LYS:HE2	2.17	0.45
1:J:449:LEU:HD12	1:J:449:LEU:HA	1.60	0.45
1:J:816:ILE:HD11	2:K:100:ALA:HB1	1.99	0.45
1:J:817:GLN:HB3	2:K:127:ARG:HD3	1.97	0.45
1:M:88:ILE:HG22	1:M:90:ASP:C	2.42	0.45
1:M:578:HIS:HB3	1:M:592:ILE:CD1	2.38	0.45
2:N:137:TRP:CZ3	2:N:145:ALA:N	2.81	0.45
1:P:17:LEU:HD12	1:P:17:LEU:HA	1.67	0.45
1:P:84:MLY:HH13	1:P:724:TYR:OH	2.15	0.45
1:P:88:ILE:HG22	1:P:90:ASP:C	2.42	0.45
1:P:418:THR:CG2	1:P:419:VAL:N	2.79	0.45
1:P:506:GLU:HG2	1:P:759:ALA:CB	2.47	0.45
1:P:664:LEU:HD12	1:P:664:LEU:HA	1.52	0.45
1:P:835:PHE:O	1:P:839:MLY:N	2.49	0.45
1:P:836:PHE:CD2	2:Q:160:GLY:CA	3.00	0.45
4:5:32:PRO:HB2	4:5:34:ILE:HD11	1.98	0.45
4:8:6:THR:HG22	4:8:101:HIS:HA	1.97	0.45
4:8:366:GLY:O	4:8:369:ILE:HG22	2.16	0.45
4:X:223:PHE:CD2	4:X:259:GLU:HG3	2.51	0.45
4:Y:190:MET:O	4:Y:194:THR:HG23	2.16	0.45
1:A:163:TYR:O	1:A:166:MET:HB3	2.16	0.45
1:A:501:GLU:HB3	1:A:762:HIS:CG	2.52	0.45
1:A:711:PHE:HB3	1:A:766:PHE:HB3	1.99	0.45
1:D:14:ALA:N	1:D:15:PRO:HD2	2.32	0.45
1:D:186:THR:O	1:D:190:MLY:HG2	2.17	0.45
1:D:226:ASN:N	1:D:227:PRO:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:361:TYR:O	1:D:364:LEU:HB2	2.16	0.45
1:D:612:GLN:NE2	1:D:627:GLY:H	2.14	0.45
1:D:709:LYS:C	1:D:710:GLY:CA	2.89	0.45
1:G:99:GLU:N	1:G:100:PRO:CD	2.80	0.45
1:G:296:MLY:O	1:G:299:LEU:HB2	2.17	0.45
1:J:332:MET:O	1:J:336:SER:OG	2.27	0.45
1:J:629:GLU:HB3	1:J:643:GLY:C	2.41	0.45
1:M:296:MLY:O	1:M:299:LEU:HB2	2.17	0.45
1:M:642:LYS:NZ	4:Z:340:TRP:O	2.50	0.45
1:M:795:ARG:HB2	3:O:35:ARG:CZ	2.47	0.45
1:M:800:ARG:CB	3:O:149:VAL:HG22	2.35	0.45
1:P:173:GLN:HG3	1:P:670:HIS:HD2	1.82	0.45
1:P:322:VAL:HA	1:P:323:PRO:HD3	1.87	0.45
4:0:190:MET:O	4:0:194:THR:HG23	2.16	0.45
4:1:190:MET:O	4:1:194:THR:HG23	2.16	0.45
4:1:322:PRO:CA	4:3:244:ASP:HB2	2.47	0.45
4:5:171:LEU:HA	4:5:172:PRO:HD2	1.84	0.45
4:5:223:PHE:CD2	4:5:259:GLU:HG3	2.52	0.45
4:8:190:MET:O	4:8:194:THR:HG23	2.16	0.45
4:V:6:THR:HG22	4:V:101:HIS:HA	1.98	0.45
4:V:223:PHE:CD2	4:V:259:GLU:HG3	2.51	0.45
4:Z:223:PHE:CD2	4:Z:259:GLU:HG3	2.51	0.45
1:A:195:TYR:CE2	1:A:199:ILE:HD12	2.52	0.45
1:A:206:LYS:HD2	1:A:217:THR:CG2	2.17	0.45
1:A:346:ASP:O	1:A:350:ALA:N	2.46	0.45
1:A:540:CYS:N	4:8:349:LEU:HD11	2.31	0.45
1:A:637:LYS:HD2	4:8:144:ALA:HB3	1.21	0.45
1:A:725:ARG:CG	1:A:733:PRO:CA	2.95	0.45
1:A:725:ARG:HH21	1:A:733:PRO:HB2	1.81	0.45
1:A:794:CYS:O	1:A:797:PHE:HB3	2.17	0.45
2:B:137:TRP:CZ3	2:B:145:ALA:N	2.81	0.45
1:D:37:SER:O	1:D:38:VAL:HG23	2.17	0.45
1:D:725:ARG:HH21	1:D:733:PRO:HB2	1.81	0.45
1:G:14:ALA:N	1:G:15:PRO:HD2	2.32	0.45
1:G:136:ASN:O	1:G:139:VAL:N	2.47	0.45
1:G:541:MET:SD	4:V:345:ILE:C	2.96	0.45
1:G:757:GLN:CB	1:G:776:GLU:CG	2.89	0.45
1:J:136:ASN:HA	1:J:137:PRO:HD3	1.50	0.45
1:J:597:GLU:O	1:J:600:MLY:N	2.50	0.45
1:J:793:ARG:O	1:J:797:PHE:N	2.39	0.45
1:M:322:VAL:CG1	1:M:325:ILE:HD11	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:476:GLU:OE2	1:M:598:MLY:HH13	2.16	0.45
1:M:759:ALA:O	1:M:766:PHE:N	2.32	0.45
1:M:829:TRP:HZ3	2:N:84:PHE:CE1	2.31	0.45
1:M:829:TRP:HZ3	2:N:84:PHE:CE2	2.34	0.45
1:P:87:MLY:HH12	1:P:87:MLY:HD3	1.61	0.45
1:P:436:MLY:HE3	1:P:626:TYR:HE1	1.77	0.45
1:P:541:MET:CE	4:0:346:LEU:HD12	2.47	0.45
1:P:568:PRO:CG	1:P:578:HIS:H	2.30	0.45
1:P:725:ARG:HA	1:P:732:ILE:HG22	1.99	0.45
1:P:794:CYS:O	1:P:797:PHE:HB3	2.17	0.45
1:P:817:GLN:HG3	2:Q:128:PHE:CE1	2.52	0.45
4:2:32:PRO:HB2	4:2:34:ILE:HD11	1.98	0.45
4:8:223:PHE:CD2	4:8:259:GLU:HG3	2.52	0.45
4:X:366:GLY:O	4:X:369:ILE:HG22	2.16	0.45
4:Z:366:GLY:O	4:Z:369:ILE:HG22	2.16	0.45
1:A:37:SER:O	1:A:38:VAL:HG23	2.17	0.45
1:A:93:MET:HG2	1:A:715:VAL:HG23	1.91	0.45
1:A:99:GLU:N	1:A:100:PRO:CD	2.80	0.45
1:A:186:THR:O	1:A:190:MLY:HG2	2.17	0.45
1:A:224:SER:O	1:A:227:PRO:HD2	2.17	0.45
1:A:322:VAL:CG1	1:A:325:ILE:HD11	2.47	0.45
1:A:488:GLN:O	1:A:491:PHE:HB3	2.17	0.45
1:A:818:TYR:CD2	2:B:89:LYS:C	2.95	0.45
1:D:64:THR:HB	1:D:68:GLU:N	2.33	0.45
1:D:568:PRO:CG	1:D:578:HIS:H	2.30	0.45
1:D:597:GLU:O	1:D:600:MLY:N	2.50	0.45
1:D:795:ARG:HE	3:F:116:GLU:CB	2.28	0.45
1:G:17:LEU:HA	1:G:17:LEU:HD12	1.67	0.45
1:G:64:THR:HB	1:G:68:GLU:N	2.32	0.45
1:G:92:ALA:O	1:G:714:ARG:HG3	2.16	0.45
1:G:485:GLU:OE1	1:G:583:HIS:ND1	2.49	0.45
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.45
1:G:629:GLU:HB3	1:G:643:GLY:C	2.41	0.45
1:G:725:ARG:CG	1:G:733:PRO:CA	2.95	0.45
1:G:795:ARG:HG3	3:I:116:GLU:OE2	2.17	0.45
1:J:93:MET:HE1	1:J:716:LEU:HB2	1.98	0.45
1:J:543:PRO:CD	4:W:143:TYR:O	2.64	0.45
1:J:667:THR:O	1:J:669:PRO:HD3	2.16	0.45
1:J:725:ARG:CG	1:J:733:PRO:CA	2.95	0.45
2:K:140:PHE:HA	2:K:141:PRO:HD2	1.57	0.45
1:M:411:GLU:H	4:Z:333:PRO:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:636:LYS:O	4:Z:144:ALA:HB1	2.14	0.45
1:M:725:ARG:HA	1:M:732:ILE:HG22	1.99	0.45
1:M:786:ILE:C	1:M:789:ALA:N	2.75	0.45
1:M:810:ARG:HG2	1:M:810:ARG:NH1	2.29	0.45
1:M:821:ARG:HH22	2:N:127:ARG:NE	2.14	0.45
1:P:346:ASP:O	1:P:350:ALA:N	2.45	0.45
1:P:544:LYS:HZ1	4:2:45:VAL:CG2	2.25	0.45
1:P:629:GLU:HB3	1:P:643:GLY:C	2.41	0.45
1:P:711:PHE:HB3	1:P:766:PHE:HB3	1.99	0.45
1:P:817:GLN:CG	2:Q:127:ARG:CG	2.77	0.45
1:P:829:TRP:O	1:P:832:MET:N	2.50	0.45
2:Q:121:LEU:O	2:Q:128:PHE:CG	2.61	0.45
2:Q:137:TRP:CA	2:Q:145:ALA:CB	2.82	0.45
4:0:253:GLU:HA	4:0:256:ARG:CG	2.42	0.45
4:2:223:PHE:CD2	4:2:259:GLU:HG3	2.51	0.45
4:7:223:PHE:CD2	4:7:259:GLU:HG3	2.51	0.45
4:8:32:PRO:HB2	4:8:34:ILE:HD11	1.98	0.45
4:9:190:MET:O	4:9:194:THR:HG23	2.16	0.45
4:X:324:THR:HG22	4:Z:247:VAL:CB	2.46	0.45
4:Y:253:GLU:HA	4:Y:256:ARG:CG	2.42	0.45
1:A:48:VAL:HA	1:A:104:TYR:OH	2.17	0.44
1:A:754:ASP:OD2	1:A:774:LEU:HD23	2.16	0.44
1:D:723:ARG:NH2	1:D:779:ARG:CZ	2.79	0.44
1:D:818:TYR:CD2	2:E:90:GLY:HA3	2.52	0.44
2:E:112:ILE:O	2:E:148:VAL:HA	2.16	0.44
2:E:129:THR:HG23	2:E:132:GLU:OE1	2.17	0.44
3:F:69:LEU:HB3	3:F:70:PRO:HD3	1.99	0.44
1:G:95:THR:HA	1:G:713:SER:OG	2.16	0.44
1:G:214:MET:CA	1:G:340:ILE:HD11	2.45	0.44
1:G:408:VAL:CG1	4:V:332:PRO:HB3	2.41	0.44
1:G:519:LEU:N	1:G:519:LEU:CD1	2.77	0.44
1:G:612:GLN:NE2	1:G:627:GLY:H	2.14	0.44
1:G:794:CYS:O	1:G:797:PHE:HB3	2.17	0.44
2:H:144:VAL:C	2:H:153:ILE:HD11	2.43	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	0.44
1:J:226:ASN:N	1:J:227:PRO:HD2	2.32	0.44
1:J:308:ASN:HA	1:J:309:PRO:HD2	1.88	0.44
1:J:541:MET:CE	4:W:346:LEU:HD12	2.47	0.44
1:J:689:GLU:HA	1:J:692:LEU:HB2	2.00	0.44
1:M:99:GLU:N	1:M:100:PRO:CD	2.80	0.44
1:M:179:GLY:O	1:M:185:LYS:HE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:821:ARG:NH2	2:N:127:ARG:CD	2.80	0.44
1:P:278:GLN:HE21	1:P:278:GLN:HB3	1.42	0.44
1:P:597:GLU:O	1:P:600:MLY:N	2.50	0.44
4:3:288:ASP:OD2	4:5:203:THR:OG1	2.33	0.44
4:7:223:PHE:HB3	4:7:259:GLU:OE2	2.18	0.44
4:9:32:PRO:HB2	4:9:34:ILE:HD11	1.98	0.44
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.18	0.44
4:W:32:PRO:HB2	4:W:34:ILE:HD11	1.98	0.44
1:A:642:LYS:HB2	4:8:24:ASP:O	1.88	0.44
1:A:835:PHE:O	1:A:839:MLY:N	2.49	0.44
1:D:278:GLN:HE21	1:D:278:GLN:HB3	1.42	0.44
1:D:689:GLU:HA	1:D:692:LEU:HB2	1.99	0.44
1:D:795:ARG:HB3	3:F:35:ARG:HH22	1.74	0.44
1:G:485:GLU:HA	1:G:584:TYR:HE2	1.83	0.44
1:G:667:THR:O	1:G:669:PRO:HD3	2.16	0.44
1:G:829:TRP:CE3	2:H:87:LYS:NZ	2.78	0.44
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.44
1:J:64:THR:HB	1:J:68:GLU:N	2.33	0.44
1:J:99:GLU:N	1:J:100:PRO:CD	2.80	0.44
1:J:322:VAL:CG1	1:J:325:ILE:HD11	2.47	0.44
1:J:715:VAL:HG11	1:J:720:PHE:CD1	2.50	0.44
1:M:30:MLY:HB3	1:M:31:PRO:HD2	1.97	0.44
1:M:599:ASN:OD1	1:M:649:VAL:C	2.60	0.44
1:M:665:ARG:C	1:M:667:THR:N	2.74	0.44
1:M:739:ASP:OD1	1:M:739:ASP:C	2.58	0.44
2:N:112:ILE:O	2:N:148:VAL:HA	2.16	0.44
1:P:14:ALA:N	1:P:15:PRO:HD2	2.32	0.44
1:P:411:GLU:H	4:0:333:PRO:CB	2.30	0.44
1:P:488:GLN:O	1:P:491:PHE:HB3	2.16	0.44
1:P:640:LYS:HB3	1:P:645:SER:CB	2.42	0.44
1:P:829:TRP:CE2	2:Q:87:LYS:HE2	2.48	0.44
2:Q:129:THR:HG23	2:Q:132:GLU:OE1	2.18	0.44
4:0:223:PHE:CD2	4:0:259:GLU:HG3	2.51	0.44
4:2:223:PHE:HB3	4:2:259:GLU:OE2	2.18	0.44
4:4:253:GLU:HA	4:4:256:ARG:CG	2.42	0.44
4:W:223:PHE:HB3	4:W:259:GLU:OE2	2.18	0.44
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.44
4:Y:32:PRO:HB2	4:Y:34:ILE:HD11	1.98	0.44
1:A:64:THR:HB	1:A:68:GLU:N	2.33	0.44
1:A:550:PHE:C	4:V:46:GLY:CA	2.87	0.44
1:A:597:GLU:O	1:A:600:MLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:GLU:HB3	1:A:643:GLY:C	2.41	0.44
1:A:725:ARG:CZ	1:A:733:PRO:CB	2.83	0.44
1:A:725:ARG:HA	1:A:732:ILE:HG22	1.99	0.44
3:C:69:LEU:HB3	3:C:70:PRO:HD3	2.00	0.44
1:D:229:LEU:HD12	1:D:229:LEU:HA	1.75	0.44
1:D:599:ASN:OD1	1:D:649:VAL:C	2.60	0.44
1:D:711:PHE:HB3	1:D:766:PHE:HB3	1.99	0.44
1:D:724:TYR:HD1	1:D:727:LEU:CD1	2.27	0.44
1:D:799:MET:SD	3:F:32:ASP:OD2	2.75	0.44
2:E:162:ASP:O	2:K:21:GLU:HB3	2.12	0.44
1:G:411:GLU:H	4:V:333:PRO:CB	2.29	0.44
1:G:599:ASN:OD1	1:G:649:VAL:C	2.60	0.44
1:G:822:SER:OG	2:H:88:LEU:HA	2.17	0.44
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.68	0.44
1:J:195:TYR:CE2	1:J:199:ILE:HD12	2.52	0.44
1:J:639:GLY:H	4:W:344:SER:HB3	1.82	0.44
1:J:692:LEU:O	1:J:696:ARG:HG3	2.18	0.44
1:J:725:ARG:NE	1:J:733:PRO:CB	1.95	0.44
1:M:64:THR:HB	1:M:68:GLU:N	2.33	0.44
1:M:84:MLY:HD3	1:M:724:TYR:CE2	2.52	0.44
1:M:195:TYR:CE2	1:M:199:ILE:HD12	2.52	0.44
1:M:541:MET:CE	4:Z:346:LEU:HD12	2.47	0.44
1:M:643:GLY:N	4:Z:23:GLY:C	2.55	0.44
1:M:725:ARG:HH21	1:M:733:PRO:HB2	1.81	0.44
1:M:803:TYR:CE1	1:M:807:VAL:HG21	2.52	0.44
3:O:122:GLU:HA	3:O:125:GLU:OE1	2.18	0.44
1:P:64:THR:HB	1:P:68:GLU:N	2.32	0.44
1:P:129:TYR:HD1	1:P:129:TYR:HA	1.65	0.44
1:P:226:ASN:N	1:P:227:PRO:HD2	2.32	0.44
1:P:296:MLY:O	1:P:299:LEU:HB2	2.17	0.44
1:P:409:GLY:N	1:P:636:LYS:CD	2.70	0.44
4:0:32:PRO:HB2	4:0:34:ILE:HD11	1.98	0.44
4:0:223:PHE:HB3	4:0:259:GLU:OE2	2.18	0.44
4:1:32:PRO:HB2	4:1:34:ILE:HD11	1.98	0.44
4:3:47:MET:HB2	4:3:47:MET:HE2	1.79	0.44
4:4:253:GLU:H	4:4:253:GLU:CD	2.25	0.44
4:5:223:PHE:HB3	4:5:259:GLU:OE2	2.18	0.44
4:9:253:GLU:H	4:9:253:GLU:CD	2.25	0.44
4:9:290:ARG:HH22	4:W:202:THR:CG2	2.17	0.44
4:Y:223:PHE:HB3	4:Y:259:GLU:OE2	2.18	0.44
4:Y:223:PHE:CD2	4:Y:259:GLU:HG3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:ALA:N	1:A:15:PRO:HD2	2.32	0.44
1:A:519:LEU:N	1:A:519:LEU:CD1	2.77	0.44
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	0.44
1:A:715:VAL:HG11	1:A:720:PHE:CD1	2.50	0.44
1:A:800:ARG:HB3	3:C:149:VAL:CG1	2.47	0.44
2:B:129:THR:HG23	2:B:132:GLU:OE1	2.18	0.44
1:D:163:TYR:O	1:D:166:MET:HB3	2.17	0.44
1:D:418:THR:CG2	1:D:419:VAL:N	2.79	0.44
1:D:449:LEU:HD12	1:D:449:LEU:HA	1.60	0.44
1:G:103:LEU:HD22	1:G:692:LEU:HG	1.98	0.44
1:G:163:TYR:O	1:G:166:MET:HB3	2.17	0.44
1:G:176:LEU:N	1:G:176:LEU:CD1	2.75	0.44
1:G:179:GLY:O	1:G:185:LYS:HE2	2.17	0.44
1:G:530:MET:CB	4:V:354:GLN:CB	2.96	0.44
1:G:810:ARG:HG2	1:G:810:ARG:NH1	2.28	0.44
1:G:817:GLN:HB3	2:H:127:ARG:HH11	1.82	0.44
1:G:829:TRP:O	1:G:832:MET:N	2.50	0.44
1:J:711:PHE:HB3	1:J:766:PHE:HB3	1.99	0.44
1:J:795:ARG:HA	3:L:118:MET:HE1	1.99	0.44
2:K:129:THR:HG23	2:K:132:GLU:OE1	2.17	0.44
1:M:136:ASN:C	1:M:138:MLY:N	2.76	0.44
1:M:516:GLY:O	1:M:518:ASP:N	2.51	0.44
1:M:597:GLU:O	1:M:600:MLY:N	2.50	0.44
1:M:711:PHE:HB3	1:M:766:PHE:HB3	2.00	0.44
2:N:129:THR:HG23	2:N:132:GLU:OE1	2.18	0.44
1:P:195:TYR:CE2	1:P:199:ILE:HD12	2.52	0.44
1:P:732:ILE:CG2	1:P:747:LEU:HD12	0.35	0.44
2:Q:144:VAL:C	2:Q:153:ILE:HD11	2.43	0.44
4:0:290:ARG:HH21	4:2:202:THR:HG22	1.82	0.44
4:1:6:THR:HG22	4:1:101:HIS:HA	1.97	0.44
4:4:32:PRO:HB2	4:4:34:ILE:HD11	1.98	0.44
4:5:253:GLU:CD	4:5:253:GLU:H	2.25	0.44
4:7:287:ILE:CB	4:9:204:ALA:H	2.13	0.44
4:8:223:PHE:HB3	4:8:259:GLU:OE2	2.18	0.44
1:A:103:LEU:HD22	1:A:692:LEU:HG	1.98	0.44
1:A:123:CYS:CB	1:A:158:ILE:HD13	2.48	0.44
1:A:173:GLN:HG3	1:A:670:HIS:HD2	1.82	0.44
1:A:655:GLU:CD	4:8:1:ASP:HB2	2.43	0.44
2:B:144:VAL:C	2:B:153:ILE:HD11	2.42	0.44
1:D:139:VAL:HG12	1:D:143:TYR:HD2	1.81	0.44
1:D:322:VAL:CG1	1:D:325:ILE:HD11	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:488:GLN:O	1:D:491:PHE:HB3	2.17	0.44
1:D:675:ILE:HG23	1:D:676:ILE:N	2.32	0.44
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.44
1:G:493:HIS:O	1:G:496:PHE:HB3	2.18	0.44
3:I:48:LYS:HD3	3:I:48:LYS:HA	1.17	0.44
1:J:139:VAL:HG12	1:J:143:TYR:HD2	1.81	0.44
1:J:163:TYR:O	1:J:166:MET:HB3	2.17	0.44
1:J:485:GLU:OE1	1:J:583:HIS:ND1	2.49	0.44
1:J:516:GLY:O	1:J:518:ASP:N	2.51	0.44
1:J:599:ASN:OD1	1:J:649:VAL:C	2.60	0.44
1:J:775:LEU:HD12	1:J:775:LEU:HA	1.71	0.44
1:J:794:CYS:O	1:J:797:PHE:HB3	2.17	0.44
3:L:69:LEU:HB3	3:L:70:PRO:HD3	1.99	0.44
1:M:330:GLU:O	1:M:333:ALA:HB3	2.16	0.44
1:M:629:GLU:HB3	1:M:643:GLY:C	2.41	0.44
1:M:715:VAL:HG12	1:M:720:PHE:HB2	2.00	0.44
1:M:782:MLY:O	1:M:786:ILE:HD11	2.18	0.44
1:M:783:LEU:O	1:M:786:ILE:N	2.50	0.44
1:M:839:MLY:HH11	2:N:158:THR:CG2	2.48	0.44
2:N:144:VAL:C	2:N:153:ILE:HD11	2.42	0.44
1:P:37:SER:O	1:P:38:VAL:HG23	2.17	0.44
1:P:148:ARG:NE	1:P:764:MLY:HH21	2.32	0.44
1:P:224:SER:O	1:P:227:PRO:HD2	2.17	0.44
1:P:332:MET:O	1:P:336:SER:OG	2.27	0.44
1:P:493:HIS:O	1:P:496:PHE:HB3	2.18	0.44
1:P:516:GLY:O	1:P:518:ASP:N	2.51	0.44
1:P:599:ASN:OD1	1:P:649:VAL:C	2.60	0.44
1:P:667:THR:O	1:P:669:PRO:HD3	2.17	0.44
1:P:689:GLU:HA	1:P:692:LEU:HB2	2.00	0.44
3:R:122:GLU:HA	3:R:125:GLU:OE1	2.18	0.44
4:V:190:MET:O	4:V:194:THR:HG23	2.16	0.44
4:V:223:PHE:HB3	4:V:259:GLU:OE2	2.18	0.44
4:V:287:ILE:HG13	4:X:202:THR:HG23	1.65	0.44
4:V:366:GLY:O	4:V:369:ILE:HG22	2.16	0.44
4:W:253:GLU:H	4:W:253:GLU:CD	2.26	0.44
4:X:253:GLU:CD	4:X:253:GLU:H	2.25	0.44
1:A:210:GLN:C	1:A:211:SER:HG	2.11	0.44
1:A:485:GLU:OE2	1:A:584:TYR:N	2.50	0.44
1:A:599:ASN:OD1	1:A:649:VAL:C	2.60	0.44
1:A:661:MET:HE3	1:A:661:MET:HB3	1.74	0.44
2:B:112:ILE:O	2:B:148:VAL:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:117:LEU:CG	2:B:147:ASN:OD1	2.52	0.44
3:C:101:THR:HA	3:C:137:ILE:O	2.18	0.44
1:D:725:ARG:HA	1:D:732:ILE:HG22	1.99	0.44
2:E:112:ILE:O	2:E:148:VAL:N	2.50	0.44
1:G:659:MLY:HD2	1:G:659:MLY:HH22	1.42	0.44
1:G:675:ILE:HG23	1:G:676:ILE:N	2.32	0.44
1:G:692:LEU:O	1:G:696:ARG:HG3	2.18	0.44
1:G:796:GLY:CA	3:I:35:ARG:NH2	2.79	0.44
2:H:129:THR:HG23	2:H:132:GLU:OE1	2.17	0.44
1:J:296:MLY:O	1:J:299:LEU:HB2	2.17	0.44
1:J:488:GLN:O	1:J:491:PHE:HB3	2.17	0.44
1:J:732:ILE:HG23	1:J:747:LEU:HD12	0.95	0.44
1:J:789:ALA:HA	3:L:81:GLN:NE2	2.33	0.44
1:J:792:ALA:HA	3:L:42:THR:HA	2.00	0.44
1:M:519:LEU:N	1:M:519:LEU:CD1	2.77	0.44
1:M:692:LEU:HD23	1:M:692:LEU:HA	1.85	0.44
1:M:751:GLY:C	1:M:753:VAL:HG22	2.43	0.44
1:M:783:LEU:HA	1:M:786:ILE:HG12	1.67	0.44
1:M:818:TYR:CD1	2:N:127:ARG:NH1	2.86	0.44
1:P:155:ILE:HG22	1:P:156:PHE:N	2.33	0.44
1:P:725:ARG:CG	1:P:733:PRO:CA	2.95	0.44
1:P:797:PHE:CD1	3:R:149:VAL:HG12	2.44	0.44
3:R:69:LEU:HB3	3:R:70:PRO:HD3	1.99	0.44
4:2:47:MET:HE2	4:2:47:MET:HB2	1.79	0.44
4:8:193:LEU:O	4:8:198:TYR:HD2	2.01	0.44
4:8:324:THR:N	4:V:245:GLY:CA	2.69	0.44
1:A:17:LEU:HD12	1:A:17:LEU:HA	1.67	0.44
1:A:193:ILE:HD11	1:A:250:ILE:CD1	2.48	0.44
1:A:439:LEU:N	1:A:439:LEU:CD1	2.81	0.44
1:A:449:LEU:HD12	1:A:449:LEU:HA	1.60	0.44
1:A:485:GLU:HA	1:A:584:TYR:HE2	1.83	0.44
1:A:516:GLY:O	1:A:518:ASP:N	2.51	0.44
1:A:732:ILE:HG21	1:A:747:LEU:CD1	0.64	0.44
1:D:136:ASN:C	1:D:138:MLY:N	2.75	0.44
1:D:266:GLU:OE1	1:D:659:MLY:NZ	2.51	0.44
1:D:346:ASP:O	1:D:350:ALA:N	2.46	0.44
1:D:439:LEU:N	1:D:439:LEU:CD1	2.81	0.44
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.44
1:G:136:ASN:C	1:G:138:MLY:N	2.75	0.44
1:G:701:LEU:HD12	1:G:701:LEU:HA	1.55	0.44
1:G:791:GLN:CD	3:I:116:GLU:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:838:ILE:HG13	2:H:54:MET:HE1	1.96	0.44
1:J:193:ILE:HD11	1:J:250:ILE:CD1	2.48	0.44
1:J:408:VAL:HA	1:J:636:LYS:HG3	1.03	0.44
1:J:408:VAL:HG22	1:J:636:LYS:HG2	1.52	0.44
1:J:439:LEU:N	1:J:439:LEU:CD1	2.81	0.44
1:J:493:HIS:O	1:J:496:PHE:HB3	2.18	0.44
1:J:576:GLU:CG	1:J:577:ALA:N	2.44	0.44
1:J:725:ARG:CZ	1:J:737:PHE:CZ	3.01	0.44
1:J:835:PHE:O	1:J:839:MLY:N	2.49	0.44
2:K:113:LYS:C	2:K:147:ASN:HB2	2.43	0.44
2:K:114:LYS:CG	2:K:146:GLY:HA2	2.46	0.44
3:L:50:LEU:O	3:L:53:PRO:HG2	2.18	0.44
1:M:123:CYS:CB	1:M:158:ILE:HD13	2.48	0.44
1:M:136:ASN:HA	1:M:137:PRO:HD3	1.49	0.44
1:M:173:GLN:HG3	1:M:670:HIS:HD2	1.82	0.44
1:M:332:MET:O	1:M:336:SER:OG	2.27	0.44
1:M:787:ILE:HG23	1:M:791:GLN:HG3	2.00	0.44
2:N:139:ALA:O	2:N:141:PRO:CD	2.51	0.44
1:P:599:ASN:CG	1:P:649:VAL:CB	2.80	0.44
4:1:220:ALA:HB3	4:1:223:PHE:CD1	2.53	0.44
4:3:287:ILE:HB	4:5:204:ALA:H	1.83	0.44
4:7:193:LEU:O	4:7:198:TYR:HD2	2.01	0.44
4:X:220:ALA:HB3	4:X:223:PHE:CD1	2.53	0.44
4:Z:190:MET:O	4:Z:194:THR:HG23	2.16	0.44
4:Z:220:ALA:HB3	4:Z:223:PHE:CD1	2.53	0.44
4:Z:223:PHE:HB3	4:Z:259:GLU:OE2	2.18	0.44
1:A:226:ASN:N	1:A:227:PRO:HD2	2.32	0.44
1:A:436:MLY:HE3	1:A:626:TYR:HE1	1.77	0.44
1:A:501:GLU:CA	1:A:762:HIS:ND1	2.68	0.44
1:A:530:MET:CE	4:8:354:GLN:CB	2.96	0.44
1:A:837:MLY:HH22	2:H:21:GLU:H	1.82	0.44
1:D:166:MET:CE	1:D:254:PHE:HB2	2.46	0.44
1:D:195:TYR:CE2	1:D:199:ILE:HD12	2.52	0.44
1:D:206:LYS:CE	1:D:217:THR:HG23	2.30	0.44
1:D:485:GLU:OE2	1:D:584:TYR:N	2.50	0.44
1:D:667:THR:O	1:D:669:PRO:HD3	2.16	0.44
1:D:692:LEU:O	1:D:696:ARG:HG3	2.18	0.44
1:D:747:LEU:HD23	1:D:747:LEU:C	2.43	0.44
2:E:144:VAL:C	2:E:153:ILE:HD11	2.42	0.44
3:F:122:GLU:HA	3:F:125:GLU:OE1	2.18	0.44
1:G:37:SER:O	1:G:38:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:88:ILE:HG22	1:G:90:ASP:C	2.42	0.44
1:G:195:TYR:CE2	1:G:199:ILE:HD12	2.52	0.44
1:G:643:GLY:CA	4:V:24:ASP:OD1	2.62	0.44
1:G:829:TRP:CZ3	2:H:87:LYS:CE	2.99	0.44
1:G:834:LEU:HD22	2:H:34:ILE:CD1	2.48	0.44
1:J:55:MLY:HH23	1:J:60:VAL:HG22	1.99	0.44
1:J:136:ASN:C	1:J:138:MLY:N	2.76	0.44
1:J:206:LYS:CE	1:J:217:THR:HG23	2.29	0.44
1:J:210:GLN:C	1:J:211:SER:HG	2.17	0.44
1:J:567:LYS:HZ1	4:Y:92:ASN:HA	1.80	0.44
1:J:568:PRO:CG	1:J:578:HIS:H	2.30	0.44
1:J:783:LEU:HA	1:J:786:ILE:HB	2.00	0.44
3:L:119:THR:O	3:L:123:VAL:HG23	2.18	0.44
1:M:14:ALA:N	1:M:15:PRO:HD2	2.32	0.44
1:M:28:GLN:HB3	1:M:723:ARG:NH2	2.32	0.44
1:M:37:SER:O	1:M:38:VAL:HG23	2.17	0.44
1:M:48:VAL:HA	1:M:104:TYR:OH	2.18	0.44
1:M:186:THR:O	1:M:190:MLY:HG2	2.17	0.44
1:M:543:PRO:CD	4:Z:143:TYR:O	2.64	0.44
1:M:655:GLU:CD	4:Z:1:ASP:HB2	2.43	0.44
1:M:692:LEU:O	1:M:696:ARG:HG3	2.18	0.44
1:M:769:ALA:C	1:M:770:GLY:N	2.76	0.44
1:M:775:LEU:HA	1:M:775:LEU:HD12	1.71	0.44
3:O:119:THR:O	3:O:123:VAL:HG23	2.18	0.44
1:P:55:MLY:HH23	1:P:60:VAL:HG22	1.99	0.44
1:P:123:CYS:CB	1:P:158:ILE:HD13	2.48	0.44
1:P:139:VAL:HG12	1:P:143:TYR:HD2	1.81	0.44
1:P:163:TYR:O	1:P:166:MET:HB3	2.17	0.44
1:P:529:PRO:HB3	4:0:354:GLN:HA	1.99	0.44
1:P:792:ALA:HB2	3:R:42:THR:HA	1.98	0.44
2:Q:113:LYS:C	2:Q:147:ASN:HB2	2.43	0.44
4:0:202:THR:CB	4:Y:287:ILE:H	2.30	0.44
4:3:253:GLU:CD	4:3:253:GLU:H	2.25	0.44
4:V:220:ALA:HB3	4:V:223:PHE:CD1	2.53	0.44
4:X:223:PHE:HB3	4:X:259:GLU:OE2	2.18	0.44
1:A:88:ILE:HG22	1:A:90:ASP:C	2.42	0.44
1:A:530:MET:CB	4:8:354:GLN:CB	2.95	0.44
1:A:692:LEU:O	1:A:696:ARG:HG3	2.18	0.44
1:A:725:ARG:CZ	1:A:737:PHE:CZ	3.01	0.44
3:C:52:ASN:CB	3:C:53:PRO:CD	2.92	0.44
1:D:17:LEU:HA	1:D:17:LEU:HD12	1.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:64:THR:CG2	1:D:65:GLU:H	2.31	0.44
1:D:123:CYS:CB	1:D:158:ILE:HD13	2.48	0.44
1:D:218:LEU:HD22	1:D:222:ILE:HG13	1.95	0.44
1:D:400:ALA:CB	1:D:606:THR:HG22	2.48	0.44
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.44
1:G:14:ALA:N	1:G:15:PRO:CD	2.81	0.44
1:G:224:SER:O	1:G:227:PRO:HD2	2.17	0.44
1:G:330:GLU:O	1:G:333:ALA:HB3	2.17	0.44
1:G:754:ASP:O	1:G:776:GLU:OE2	2.34	0.44
3:I:50:LEU:O	3:I:53:PRO:HG2	2.18	0.44
1:J:103:LEU:HD22	1:J:692:LEU:HG	1.98	0.44
1:J:123:CYS:CB	1:J:158:ILE:HD13	2.48	0.44
1:J:174:SER:OG	1:J:669:PRO:HA	2.18	0.44
1:J:541:MET:HB3	4:W:345:ILE:HG22	2.00	0.44
1:J:675:ILE:HG23	1:J:676:ILE:N	2.33	0.44
1:M:411:GLU:H	4:Z:333:PRO:CB	2.30	0.44
1:M:541:MET:HG2	4:Z:345:ILE:HG22	2.00	0.44
2:N:113:LYS:C	2:N:147:ASN:HB2	2.43	0.44
1:P:103:LEU:HD22	1:P:692:LEU:HG	1.98	0.44
1:P:136:ASN:C	1:P:138:MLY:N	2.75	0.44
1:P:439:LEU:N	1:P:439:LEU:CD1	2.81	0.44
1:P:485:GLU:HA	1:P:584:TYR:HE2	1.83	0.44
1:P:485:GLU:OE1	1:P:583:HIS:ND1	2.49	0.44
1:P:715:VAL:HG11	1:P:720:PHE:CD1	2.50	0.44
1:P:725:ARG:CZ	1:P:737:PHE:CZ	3.01	0.44
3:R:48:LYS:HA	3:R:48:LYS:HD3	1.17	0.44
3:R:50:LEU:O	3:R:53:PRO:HG2	2.18	0.44
3:R:101:THR:HA	3:R:137:ILE:O	2.18	0.44
4:1:324:THR:OG1	4:3:244:ASP:HB3	2.16	0.44
4:2:205:GLU:O	4:2:208:ILE:HG22	2.18	0.44
4:2:290:ARG:NH1	4:4:202:THR:CG2	2.75	0.44
4:3:193:LEU:O	4:3:198:TYR:HD2	2.01	0.44
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	0.44
4:4:193:LEU:O	4:4:198:TYR:HD2	2.01	0.44
4:4:223:PHE:HB3	4:4:259:GLU:OE2	2.18	0.44
4:5:193:LEU:O	4:5:198:TYR:HD2	2.01	0.44
4:8:220:ALA:HB3	4:8:223:PHE:CD1	2.53	0.44
4:W:47:MET:HE2	4:W:47:MET:HB2	1.79	0.44
4:Y:253:GLU:H	4:Y:253:GLU:CD	2.25	0.44
1:A:123:CYS:HB2	1:A:158:ILE:HD13	2.00	0.43
1:A:129:TYR:HD1	1:A:129:TYR:HA	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:229:LEU:HD12	1:A:229:LEU:HA	1.75	0.43
1:A:554:LEU:HD12	1:A:554:LEU:HA	1.76	0.43
1:A:639:GLY:H	4:8:344:SER:HB3	1.83	0.43
1:A:787:ILE:HG23	1:A:791:GLN:HG3	2.00	0.43
1:A:798:LEU:HD21	3:C:122:GLU:HB3	1.99	0.43
1:A:819:ASN:CA	2:B:90:GLY:C	2.91	0.43
1:A:836:PHE:CZ	2:B:159:HIS:HA	2.53	0.43
3:C:122:GLU:HA	3:C:125:GLU:OE1	2.18	0.43
1:D:155:ILE:HG22	1:D:156:PHE:N	2.33	0.43
1:D:485:GLU:OE1	1:D:583:HIS:ND1	2.49	0.43
1:D:530:MET:CB	4:9:354:GLN:CB	2.95	0.43
1:D:541:MET:HG2	4:9:345:ILE:HG22	2.00	0.43
1:D:791:GLN:OE1	3:F:116:GLU:CG	2.48	0.43
1:D:836:PHE:CE1	2:E:159:HIS:CB	2.98	0.43
1:G:48:VAL:HA	1:G:104:TYR:OH	2.18	0.43
1:G:123:CYS:CB	1:G:158:ILE:HD13	2.48	0.43
1:G:193:ILE:HD11	1:G:250:ILE:CD1	2.48	0.43
1:G:439:LEU:N	1:G:439:LEU:CD1	2.81	0.43
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	0.43
1:G:818:TYR:C	2:H:90:GLY:HA3	2.42	0.43
3:I:122:GLU:HA	3:I:125:GLU:OE1	2.18	0.43
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.43
1:J:202:SER:C	1:J:207:LYS:HE3	2.44	0.43
1:J:322:VAL:HA	1:J:323:PRO:HD3	1.87	0.43
1:J:411:GLU:H	4:W:333:PRO:CB	2.30	0.43
1:J:821:ARG:CZ	2:K:127:ARG:NE	2.81	0.43
3:L:101:THR:HA	3:L:137:ILE:O	2.18	0.43
3:L:122:GLU:HA	3:L:125:GLU:OE1	2.18	0.43
1:M:163:TYR:O	1:M:166:MET:HB3	2.17	0.43
1:M:224:SER:O	1:M:227:PRO:HD2	2.17	0.43
1:M:529:PRO:HB3	4:Z:354:GLN:HA	1.99	0.43
1:M:675:ILE:HG23	1:M:676:ILE:N	2.32	0.43
1:P:179:GLY:O	1:P:185:LYS:HE2	2.17	0.43
1:P:202:SER:C	1:P:207:LYS:HE3	2.43	0.43
1:P:725:ARG:CG	1:P:733:PRO:HA	2.43	0.43
1:P:751:GLY:C	1:P:753:VAL:HG22	2.43	0.43
3:R:119:THR:O	3:R:123:VAL:HG23	2.18	0.43
4:0:253:GLU:CD	4:0:253:GLU:H	2.26	0.43
4:2:253:GLU:CD	4:2:253:GLU:H	2.25	0.43
4:3:223:PHE:HB3	4:3:259:GLU:OE2	2.18	0.43
4:7:253:GLU:H	4:7:253:GLU:CD	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:253:GLU:CD	4:8:253:GLU:H	2.25	0.43
1:A:201:ALA:O	1:A:202:SER:OG	2.36	0.43
1:A:289:TYR:OH	1:A:315:VAL:O	2.27	0.43
1:A:295:MLY:CE	1:A:332:MET:CE	2.96	0.43
1:A:322:VAL:CG1	1:A:325:ILE:HG13	2.49	0.43
1:A:348:MLY:HH12	1:A:348:MLY:HD2	1.82	0.43
1:A:409:GLY:HA3	4:8:332:PRO:C	2.43	0.43
1:D:48:VAL:HA	1:D:104:TYR:OH	2.18	0.43
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	0.43
1:D:193:ILE:HD11	1:D:250:ILE:CD1	2.48	0.43
1:D:485:GLU:HA	1:D:584:TYR:HE2	1.83	0.43
1:D:516:GLY:O	1:D:518:ASP:N	2.51	0.43
1:G:166:MET:HE1	1:G:254:PHE:CB	2.46	0.43
1:G:226:ASN:HB2	1:G:227:PRO:CD	2.48	0.43
1:G:266:GLU:OE1	1:G:659:MLY:NZ	2.51	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HD11	2.47	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HG13	2.48	0.43
1:G:503:TYR:OH	1:G:711:PHE:CE2	2.56	0.43
1:G:818:TYR:CD1	2:H:127:ARG:NH1	2.86	0.43
3:I:101:THR:HA	3:I:137:ILE:O	2.18	0.43
1:J:266:GLU:OE1	1:J:659:MLY:NZ	2.51	0.43
1:J:529:PRO:HB3	4:W:354:GLN:HA	1.99	0.43
1:J:673:ARG:HA	1:J:673:ARG:HD2	1.79	0.43
1:J:751:GLY:C	1:J:753:VAL:HG22	2.43	0.43
1:J:791:GLN:NE2	3:L:116:GLU:N	2.66	0.43
1:J:799:MET:CE	3:L:32:ASP:HB3	2.48	0.43
1:M:296:MLY:HH11	1:M:348:MLY:CH2	2.48	0.43
1:M:409:GLY:HA3	4:Z:332:PRO:C	2.43	0.43
1:M:725:ARG:CZ	1:M:737:PHE:CZ	3.01	0.43
1:M:795:ARG:NH2	3:O:116:GLU:OE2	2.48	0.43
1:P:530:MET:CB	4:0:354:GLN:CB	2.95	0.43
1:P:786:ILE:HG22	1:P:787:ILE:N	2.31	0.43
1:P:793:ARG:HH11	3:R:40:ASN:HD22	0.54	0.43
4:0:205:GLU:O	4:0:208:ILE:HG22	2.18	0.43
4:1:193:LEU:O	4:1:198:TYR:HD2	2.01	0.43
4:4:205:GLU:O	4:4:208:ILE:HG22	2.18	0.43
4:V:193:LEU:O	4:V:198:TYR:HD2	2.01	0.43
4:V:253:GLU:CD	4:V:253:GLU:H	2.25	0.43
4:W:205:GLU:O	4:W:208:ILE:HG22	2.18	0.43
4:Y:205:GLU:O	4:Y:208:ILE:HG22	2.18	0.43
1:A:109:ARG:CD	1:A:117:THR:HB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:SER:OG	1:A:669:PRO:HA	2.18	0.43
1:A:217:THR:HG22	1:A:218:LEU:N	2.34	0.43
1:A:504:MLY:HB2	1:A:762:HIS:NE2	2.33	0.43
1:A:505:MLY:CE	1:A:762:HIS:CG	2.76	0.43
1:A:537:GLU:OE1	4:8:350:SER:HA	2.19	0.43
1:A:541:MET:CE	4:8:346:LEU:HD12	2.48	0.43
1:D:40:VAL:HG23	1:D:76:GLN:O	2.19	0.43
1:D:173:GLN:HG3	1:D:670:HIS:HD2	1.82	0.43
1:D:226:ASN:HB2	1:D:227:PRO:CD	2.47	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.49	0.43
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.43
1:G:409:GLY:HA3	4:V:332:PRO:C	2.43	0.43
1:G:568:PRO:CG	1:G:578:HIS:H	2.30	0.43
1:G:578:HIS:HB3	1:G:592:ILE:CD1	2.38	0.43
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	0.43
1:G:723:ARG:NH1	1:G:723:ARG:CG	2.80	0.43
1:G:725:ARG:HA	1:G:732:ILE:HG22	1.99	0.43
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.43
1:J:144:ARG:HA	1:J:144:ARG:HD2	1.78	0.43
1:J:149:GLN:HB3	1:J:716:LEU:HD21	1.99	0.43
1:J:246:PHE:HB3	1:J:270:LEU:HD12	2.01	0.43
1:J:409:GLY:N	1:J:636:LYS:CD	2.70	0.43
1:J:496:PHE:HB2	1:J:515:PHE:CD2	2.53	0.43
1:J:712:PRO:HB2	1:J:713:SER:H	1.61	0.43
1:J:756:THR:CG2	1:J:779:ARG:HB3	2.48	0.43
2:K:137:TRP:CA	2:K:145:ALA:HB2	2.37	0.43
1:M:84:MLY:CH1	1:M:715:VAL:HG21	2.48	0.43
1:M:144:ARG:HA	1:M:144:ARG:HD2	1.78	0.43
1:M:193:ILE:HD11	1:M:250:ILE:CD1	2.48	0.43
1:M:218:LEU:HD22	1:M:222:ILE:HG13	1.95	0.43
1:M:226:ASN:N	1:M:227:PRO:HD2	2.32	0.43
1:M:391:GLY:HA3	1:M:616:VAL:HG23	2.01	0.43
1:M:545:ALA:HB2	4:1:45:VAL:HG13	1.99	0.43
1:M:641:LYS:C	4:Z:22:ALA:O	2.60	0.43
1:P:174:SER:OG	1:P:669:PRO:HA	2.18	0.43
1:P:391:GLY:HA3	1:P:616:VAL:HG23	2.01	0.43
1:P:675:ILE:HG23	1:P:676:ILE:N	2.33	0.43
1:P:724:TYR:HD1	1:P:727:LEU:CD1	2.27	0.43
4:2:149:THR:HA	4:2:165:ILE:O	2.19	0.43
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43
1:A:40:VAL:HG23	1:A:76:GLN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:ILE:HG22	1:A:156:PHE:N	2.33	0.43
1:A:391:GLY:HA3	1:A:616:VAL:HG23	2.00	0.43
1:A:496:PHE:HB2	1:A:515:PHE:CD2	2.53	0.43
1:A:534:SER:CB	4:8:351:THR:HA	2.48	0.43
1:A:612:GLN:NE2	1:A:627:GLY:H	2.14	0.43
1:A:641:LYS:C	4:8:22:ALA:O	2.61	0.43
1:A:733:PRO:O	1:A:737:PHE:CE1	2.53	0.43
1:A:751:GLY:C	1:A:753:VAL:HG22	2.43	0.43
1:A:754:ASP:C	1:A:756:THR:H	2.26	0.43
1:A:768:MLY:CB	1:A:771:LEU:CD1	2.83	0.43
3:C:119:THR:O	3:C:123:VAL:HG23	2.18	0.43
1:D:123:CYS:HB2	1:D:158:ILE:HD13	2.00	0.43
1:D:224:SER:O	1:D:227:PRO:HD2	2.17	0.43
1:D:642:LYS:HG3	4:9:23:GLY:CA	2.31	0.43
1:G:218:LEU:HD22	1:G:222:ILE:HG13	1.95	0.43
1:G:496:PHE:HB2	1:G:515:PHE:CD2	2.53	0.43
1:G:516:GLY:O	1:G:518:ASP:N	2.51	0.43
1:G:655:GLU:CD	4:V:1:ASP:HB2	2.44	0.43
2:H:113:LYS:C	2:H:147:ASN:HB2	2.43	0.43
3:I:69:LEU:HB3	3:I:70:PRO:HD3	1.99	0.43
1:J:93:MET:CE	1:J:716:LEU:HB2	2.48	0.43
1:J:97:LEU:HA	1:J:97:LEU:HD12	1.67	0.43
1:J:410:ASN:HA	4:W:334:GLU:HB3	1.29	0.43
1:J:829:TRP:HA	1:J:830:PRO:HD2	1.86	0.43
1:M:439:LEU:N	1:M:439:LEU:CD1	2.81	0.43
1:M:485:GLU:HA	1:M:584:TYR:HE2	1.83	0.43
1:M:747:LEU:HD23	1:M:747:LEU:C	2.43	0.43
1:P:64:THR:CG2	1:P:65:GLU:H	2.31	0.43
1:P:193:ILE:HD11	1:P:250:ILE:CD1	2.48	0.43
1:P:443:ILE:HG22	1:P:444:ARG:N	2.29	0.43
4:4:149:THR:HA	4:4:165:ILE:O	2.19	0.43
4:7:205:GLU:O	4:7:208:ILE:HG22	2.18	0.43
4:8:287:ILE:HA	4:V:202:THR:HG21	1.59	0.43
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.43
4:V:149:THR:HA	4:V:165:ILE:O	2.19	0.43
4:V:290:ARG:NH1	4:X:202:THR:CG2	2.81	0.43
4:W:149:THR:HA	4:W:165:ILE:O	2.19	0.43
1:A:151:ALA:HB1	1:A:152:PRO:HD2	2.01	0.43
1:A:442:VAL:O	1:A:445:ILE:HB	2.19	0.43
1:A:568:PRO:CG	1:A:578:HIS:H	2.30	0.43
1:A:747:LEU:HD23	1:A:747:LEU:C	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ILE:HG12	2:B:128:PHE:CE1	2.51	0.43
1:D:174:SER:OG	1:D:669:PRO:HA	2.18	0.43
1:D:246:PHE:HB3	1:D:270:LEU:HD12	2.01	0.43
1:D:725:ARG:CG	1:D:733:PRO:CA	2.95	0.43
1:D:733:PRO:C	1:D:737:PHE:CE1	2.96	0.43
1:D:751:GLY:C	1:D:753:VAL:HG22	2.43	0.43
1:D:793:ARG:CZ	3:F:87:PHE:CE1	3.01	0.43
1:D:810:ARG:HG2	1:D:810:ARG:NH1	2.29	0.43
1:G:86:ASP:OD2	1:G:87:MLY:HH22	2.19	0.43
1:G:201:ALA:O	1:G:202:SER:OG	2.36	0.43
1:G:217:THR:HG22	1:G:218:LEU:N	2.34	0.43
1:G:295:MLY:CE	1:G:332:MET:CE	2.97	0.43
1:G:354:LEU:HD12	1:G:354:LEU:HA	1.56	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.01	0.43
1:G:689:GLU:HA	1:G:692:LEU:HB2	1.99	0.43
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	0.43
1:G:739:ASP:OD1	1:G:739:ASP:C	2.58	0.43
1:G:818:TYR:CE2	2:H:127:ARG:NH1	2.74	0.43
1:G:821:ARG:HH22	2:H:127:ARG:CG	2.03	0.43
2:H:149:ASP:CG	2:H:150:TYR:N	2.49	0.43
1:J:64:THR:CG2	1:J:65:GLU:H	2.31	0.43
1:J:94:MET:O	1:J:713:SER:HA	2.16	0.43
1:J:224:SER:O	1:J:227:PRO:HD2	2.17	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HG13	2.49	0.43
1:J:400:ALA:CB	1:J:606:THR:HG22	2.49	0.43
1:J:541:MET:HG2	4:W:345:ILE:HG22	2.00	0.43
1:J:792:ALA:H	3:L:42:THR:CG2	2.20	0.43
1:M:109:ARG:CD	1:M:117:THR:HB	2.49	0.43
1:M:496:PHE:HB2	1:M:515:PHE:CD2	2.53	0.43
1:M:639:GLY:H	4:Z:344:SER:HB3	1.83	0.43
1:M:732:ILE:HG23	1:M:747:LEU:HD12	0.95	0.43
1:M:817:GLN:HB3	2:N:127:ARG:NE	2.33	0.43
3:O:50:LEU:O	3:O:53:PRO:HG2	2.18	0.43
3:O:69:LEU:HB3	3:O:70:PRO:HD3	1.99	0.43
3:O:101:THR:HA	3:O:137:ILE:O	2.18	0.43
1:P:166:MET:CE	1:P:254:PHE:HB2	2.47	0.43
1:P:214:MET:CA	1:P:340:ILE:HD11	2.45	0.43
1:P:246:PHE:HB3	1:P:270:LEU:HD12	2.01	0.43
1:P:584:TYR:CD1	1:P:584:TYR:C	2.96	0.43
1:P:612:GLN:NE2	1:P:627:GLY:H	2.14	0.43
1:P:639:GLY:H	4:0:344:SER:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:287:ILE:HG13	4:4:202:THR:HG22	1.89	0.43
4:5:149:THR:HA	4:5:165:ILE:O	2.19	0.43
4:Y:193:LEU:O	4:Y:198:TYR:HD2	2.01	0.43
1:A:14:ALA:N	1:A:15:PRO:CD	2.81	0.43
1:A:330:GLU:O	1:A:333:ALA:HB3	2.17	0.43
1:A:529:PRO:HB3	4:8:354:GLN:HA	2.00	0.43
1:A:530:MET:CE	4:8:354:GLN:HG3	2.35	0.43
1:A:725:ARG:CZ	1:A:737:PHE:CE1	3.02	0.43
2:B:113:LYS:C	2:B:147:ASN:HB2	2.43	0.43
1:D:202:SER:C	1:D:207:LYS:HE3	2.44	0.43
1:D:391:GLY:HA3	1:D:616:VAL:HG23	2.00	0.43
1:D:508:ILE:CG1	1:D:766:PHE:HE1	2.21	0.43
1:D:541:MET:CE	4:9:346:LEU:HD12	2.47	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.43
2:E:113:LYS:C	2:E:147:ASN:HB2	2.43	0.43
3:F:119:THR:O	3:F:123:VAL:HG23	2.18	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
1:G:505:MLY:HD2	1:G:762:HIS:NE2	2.34	0.43
1:G:692:LEU:HD23	1:G:692:LEU:HA	1.84	0.43
1:G:725:ARG:CZ	1:G:737:PHE:CZ	3.01	0.43
2:H:114:LYS:CG	2:H:146:GLY:HA2	2.46	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:217:THR:HG22	1:J:218:LEU:N	2.34	0.43
1:J:384:ASP:OD1	1:J:394:SER:OG	2.28	0.43
1:J:391:GLY:HA3	1:J:616:VAL:HG23	2.01	0.43
1:J:485:GLU:OE2	1:J:584:TYR:N	2.50	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CE1	3.02	0.43
1:J:829:TRP:O	1:J:832:MET:N	2.50	0.43
2:K:144:VAL:C	2:K:153:ILE:HD11	2.42	0.43
1:M:40:VAL:HG23	1:M:76:GLN:O	2.19	0.43
1:M:64:THR:CG2	1:M:65:GLU:H	2.32	0.43
1:M:151:ALA:HB1	1:M:152:PRO:HD2	2.01	0.43
1:M:217:THR:HG22	1:M:218:LEU:N	2.34	0.43
1:M:354:LEU:HD12	1:M:354:LEU:HA	1.56	0.43
1:M:493:HIS:O	1:M:496:PHE:HB3	2.18	0.43
1:M:500:GLN:HB2	1:M:512:PHE:CZ	2.54	0.43
1:M:584:TYR:CD1	1:M:584:TYR:C	2.96	0.43
1:M:689:GLU:HA	1:M:692:LEU:HB2	2.00	0.43
1:M:733:PRO:C	1:M:737:PHE:CE1	2.96	0.43
1:P:442:VAL:O	1:P:445:ILE:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:464:ILE:CG2	1:P:465:ALA:N	2.80	0.43
1:P:530:MET:CE	4:0:354:GLN:CB	2.95	0.43
1:P:537:GLU:OE1	4:0:350:SER:HA	2.19	0.43
1:P:541:MET:HG2	4:0:345:ILE:HG22	2.00	0.43
1:P:548:THR:HG21	4:2:49:GLN:C	2.41	0.43
1:P:692:LEU:O	1:P:696:ARG:HG3	2.18	0.43
1:P:692:LEU:HD23	1:P:692:LEU:HA	1.84	0.43
1:P:754:ASP:C	1:P:756:THR:H	2.26	0.43
1:P:829:TRP:HA	1:P:830:PRO:HD2	1.86	0.43
4:1:253:GLU:H	4:1:253:GLU:CD	2.25	0.43
4:4:171:LEU:HA	4:4:172:PRO:HD2	1.84	0.43
4:8:149:THR:HA	4:8:165:ILE:O	2.19	0.43
4:Y:149:THR:HA	4:Y:165:ILE:O	2.19	0.43
1:A:266:GLU:OE1	1:A:659:MLY:NZ	2.51	0.43
1:A:369:MLY:HH22	1:A:369:MLY:HD3	1.79	0.43
1:D:14:ALA:N	1:D:15:PRO:CD	2.81	0.43
1:D:217:THR:HG22	1:D:218:LEU:N	2.33	0.43
1:D:223:ILE:C	1:D:225:ALA:N	2.76	0.43
1:D:274:ARG:HH22	1:D:282:GLU:CD	2.27	0.43
1:D:493:HIS:O	1:D:496:PHE:HB3	2.18	0.43
1:D:641:LYS:C	4:9:22:ALA:O	2.60	0.43
1:D:724:TYR:HB3	1:D:727:LEU:CD1	2.48	0.43
2:E:137:TRP:CA	2:E:145:ALA:HB2	2.37	0.43
1:G:174:SER:OG	1:G:669:PRO:HA	2.18	0.43
1:G:206:LYS:CE	1:G:217:THR:HG23	2.30	0.43
1:G:226:ASN:N	1:G:227:PRO:HD2	2.32	0.43
1:G:725:ARG:NE	1:G:733:PRO:CB	1.95	0.43
1:G:787:ILE:HG23	1:G:791:GLN:HG3	2.00	0.43
1:G:793:ARG:HD3	3:I:40:ASN:ND2	2.32	0.43
1:G:797:PHE:HE1	3:I:146:ILE:HA	1.82	0.43
1:J:14:ALA:N	1:J:15:PRO:CD	2.82	0.43
1:J:406:VAL:O	1:J:412:ALA:HA	2.19	0.43
1:J:553:MLY:HE2	4:Y:45:VAL:HB	2.01	0.43
1:J:641:LYS:C	4:W:22:ALA:O	2.60	0.43
1:J:733:PRO:C	1:J:737:PHE:CE1	2.96	0.43
1:M:84:MLY:HG2	1:M:723:ARG:CG	2.48	0.43
1:M:246:PHE:HB3	1:M:270:LEU:HD12	2.01	0.43
1:M:506:GLU:HG3	1:M:760:PHE:O	2.09	0.43
1:M:537:GLU:OE1	4:Z:350:SER:HA	2.19	0.43
1:M:541:MET:HB3	4:Z:345:ILE:HG22	2.00	0.43
1:M:568:PRO:CG	1:M:578:HIS:H	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:723:ARG:NH1	1:M:723:ARG:CG	2.79	0.43
1:P:48:VAL:HA	1:P:104:TYR:OH	2.18	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:408:VAL:HG22	1:P:636:LYS:HG2	1.51	0.43
1:P:715:VAL:HG12	1:P:720:PHE:HB2	2.00	0.43
1:P:747:LEU:HD23	1:P:747:LEU:C	2.43	0.43
1:P:797:PHE:HE1	3:R:146:ILE:C	2.16	0.43
1:P:803:TYR:O	1:P:807:VAL:HB	2.19	0.43
4:0:193:LEU:O	4:0:198:TYR:HD2	2.01	0.43
4:1:223:PHE:HB3	4:1:259:GLU:OE2	2.18	0.43
4:5:220:ALA:HB3	4:5:223:PHE:CD1	2.53	0.43
4:7:47:MET:HE2	4:7:47:MET:HB2	1.79	0.43
4:Z:253:GLU:H	4:Z:253:GLU:CD	2.25	0.43
1:A:86:ASP:OD2	1:A:87:MLY:HH22	2.19	0.43
1:A:493:HIS:O	1:A:496:PHE:HB3	2.18	0.43
1:A:641:LYS:CE	1:A:647:GLN:CB	2.74	0.43
1:A:831:TRP:HH2	2:B:50:THR:HB	1.34	0.43
1:D:195:TYR:CD2	1:D:199:ILE:HD13	2.54	0.43
1:D:506:GLU:O	1:D:762:HIS:CB	2.67	0.43
1:D:800:ARG:HD2	3:F:149:VAL:O	2.16	0.43
3:F:63:ILE:CG2	3:F:64:THR:H	2.32	0.43
1:G:28:GLN:C	1:G:723:ARG:HH22	2.20	0.43
1:G:109:ARG:CD	1:G:117:THR:HB	2.49	0.43
1:G:530:MET:HE3	4:V:354:GLN:HG2	1.89	0.43
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	0.43
1:G:661:MET:HE3	1:G:661:MET:HB3	1.74	0.43
1:G:733:PRO:C	1:G:737:PHE:CE1	2.96	0.43
1:G:747:LEU:O	1:G:749:GLY:N	2.52	0.43
1:G:793:ARG:HA	3:I:40:ASN:HB3	2.01	0.43
1:J:123:CYS:HB2	1:J:158:ILE:HD13	2.00	0.43
1:J:169:ASP:O	1:J:170:ARG:HB2	2.19	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	0.43
1:J:464:ILE:CG2	1:J:465:ALA:N	2.80	0.43
1:J:642:LYS:HB2	4:W:24:ASP:O	1.88	0.43
1:J:747:LEU:HD23	1:J:747:LEU:C	2.43	0.43
1:M:141:LEU:HD12	1:M:141:LEU:N	2.32	0.43
1:M:266:GLU:OE1	1:M:659:MLY:NZ	2.51	0.43
2:N:114:LYS:CG	2:N:146:GLY:HA2	2.46	0.43
1:P:266:GLU:OE1	1:P:659:MLY:NZ	2.51	0.43
1:P:409:GLY:HA3	4:0:332:PRO:C	2.43	0.43

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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	0.43
4:0:149:THR:HA	4:0:165:ILE:O	2.19	0.43
4:0:220:ALA:HB3	4:0:223:PHE:CD1	2.53	0.43
4:1:244:ASP:HB2	4:Z:322:PRO:CA	2.49	0.43
4:2:290:ARG:CZ	4:4:202:THR:HG22	2.37	0.43
4:3:287:ILE:HG13	4:5:202:THR:HA	1.40	0.43
4:Y:220:ALA:HB3	4:Y:223:PHE:CD1	2.53	0.43
1:A:408:VAL:HG22	1:A:636:LYS:HG2	1.51	0.43
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	0.43
1:A:502:GLU:CD	1:A:764:MLY:N	2.74	0.43
1:D:144:ARG:HA	1:D:144:ARG:HD2	1.78	0.43
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.43
1:D:692:LEU:HD23	1:D:692:LEU:HA	1.84	0.43
1:G:151:ALA:HB1	1:G:152:PRO:HD2	2.01	0.43
1:G:246:PHE:HB3	1:G:270:LEU:HD12	2.01	0.43
1:G:294:ASN:OD1	1:G:307:THR:HG21	2.19	0.43
1:G:442:VAL:O	1:G:445:ILE:HB	2.19	0.43
1:G:500:GLN:HB2	1:G:512:PHE:CZ	2.54	0.43
1:G:747:LEU:HD23	1:G:747:LEU:C	2.43	0.43
1:J:278:GLN:HE21	1:J:278:GLN:HB3	1.42	0.43
1:J:537:GLU:OE1	4:W:350:SER:HA	2.19	0.43
1:J:715:VAL:HG12	1:J:720:PHE:HB2	2.00	0.43
1:J:831:TRP:HZ3	2:K:34:ILE:HG21	1.81	0.43
1:M:201:ALA:O	1:M:202:SER:OG	2.36	0.43
1:M:223:ILE:C	1:M:225:ALA:N	2.77	0.43
1:M:322:VAL:CG1	1:M:325:ILE:HG13	2.49	0.43
1:M:537:GLU:C	4:Z:350:SER:N	2.77	0.43
1:M:546:THR:H	4:1:46:GLY:HA3	1.83	0.43
1:P:40:VAL:HG23	1:P:76:GLN:O	2.19	0.43
1:P:217:THR:HG22	1:P:218:LEU:N	2.34	0.43
1:P:294:ASN:OD1	1:P:307:THR:HG21	2.19	0.43
4:4:220:ALA:HB3	4:4:223:PHE:CD1	2.53	0.43
4:5:205:GLU:O	4:5:208:ILE:HG22	2.18	0.43
4:7:180:LEU:HD11	4:7:261:LEU:HD23	2.01	0.43
4:Z:193:LEU:O	4:Z:198:TYR:HD2	2.01	0.43
1:A:62:VAL:O	1:A:69:THR:HA	2.19	0.43
1:A:136:ASN:C	1:A:138:MLY:N	2.75	0.43
1:A:214:MET:CA	1:A:340:ILE:HD11	2.46	0.43
1:A:294:ASN:OD1	1:A:307:THR:HG21	2.19	0.43
1:A:400:ALA:CB	1:A:606:THR:HG22	2.49	0.43
1:A:715:VAL:HG12	1:A:720:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:733:PRO:C	1:A:737:PHE:CE1	2.97	0.43
2:B:54:MET:SD	2:H:21:GLU:OE1	2.76	0.43
1:D:169:ASP:O	1:D:170:ARG:HB2	2.19	0.43
1:D:715:VAL:HG12	1:D:720:PHE:HB2	2.00	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:213:LYS:HA	1:G:220:ASP:OD2	2.19	0.43
1:G:223:ILE:C	1:G:225:ALA:N	2.76	0.43
1:G:751:GLY:C	1:G:753:VAL:HG22	2.43	0.43
1:G:835:PHE:CD1	2:H:30:ALA:HB2	2.54	0.43
3:I:11:LYS:HE2	3:I:11:LYS:HB3	1.83	0.43
3:I:63:ILE:CG2	3:I:64:THR:H	2.32	0.43
1:J:109:ARG:CD	1:J:117:THR:HB	2.49	0.43
1:J:195:TYR:CD2	1:J:199:ILE:HD13	2.54	0.43
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.43
1:J:320:ILE:O	1:J:320:ILE:HG22	2.18	0.43
1:J:533:PHE:HD1	1:J:533:PHE:HA	1.79	0.43
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	0.43
1:J:584:TYR:CD1	1:J:584:TYR:C	2.96	0.43
1:M:295:MLY:CE	1:M:332:MET:CE	2.97	0.43
1:M:445:ILE:HG22	1:M:449:LEU:HD22	2.01	0.43
1:M:553:MLY:CH2	4:1:43:VAL:HG23	2.49	0.43
1:M:754:ASP:C	1:M:756:THR:H	2.26	0.43
1:M:798:LEU:HA	1:M:798:LEU:HD12	1.37	0.43
1:P:93:MET:CE	1:P:764:MLY:CD	2.96	0.43
1:P:169:ASP:O	1:P:170:ARG:HB2	2.19	0.43
1:P:322:VAL:CG1	1:P:325:ILE:HD11	2.47	0.43
1:P:636:LYS:C	1:P:637:LYS:HG3	2.44	0.43
1:P:733:PRO:C	1:P:737:PHE:CE1	2.96	0.43
1:P:792:ALA:CB	3:R:42:THR:N	2.82	0.43
2:Q:140:PHE:CD2	2:Q:144:VAL:HG11	2.54	0.43
2:Q:144:VAL:HG12	2:Q:153:ILE:HD11	1.75	0.43
4:0:202:THR:O	4:Y:287:ILE:HD13	2.19	0.43
4:2:193:LEU:O	4:2:198:TYR:HD2	2.01	0.43
4:8:180:LEU:HD11	4:8:261:LEU:HD23	2.01	0.43
4:9:180:LEU:HD11	4:9:261:LEU:HD23	2.01	0.43
4:W:220:ALA:HB3	4:W:223:PHE:CD1	2.53	0.43
4:Z:149:THR:HA	4:Z:165:ILE:O	2.19	0.43
1:A:42:HIS:C	1:A:42:HIS:ND1	2.77	0.42
1:A:246:PHE:HB3	1:A:270:LEU:HD12	2.00	0.42
1:A:537:GLU:C	4:8:350:SER:N	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:MET:HB3	4:8:345:ILE:HG22	2.00	0.42
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	0.42
1:A:636:LYS:CB	4:8:334:GLU:OE1	2.67	0.42
1:D:496:PHE:HB2	1:D:515:PHE:CD2	2.54	0.42
1:D:787:ILE:HG23	1:D:791:GLN:HG3	2.00	0.42
1:D:819:ASN:N	2:E:90:GLY:C	2.77	0.42
1:G:97:LEU:HD21	1:G:712:PRO:C	2.44	0.42
1:G:185:LYS:H	1:G:185:LYS:HG3	1.62	0.42
1:G:641:LYS:C	4:V:22:ALA:O	2.61	0.42
1:J:530:MET:CB	4:W:354:GLN:CB	2.95	0.42
1:M:92:ALA:O	1:M:714:ARG:HG3	2.19	0.42
1:M:166:MET:HE1	1:M:254:PHE:CB	2.47	0.42
1:M:174:SER:OG	1:M:669:PRO:HA	2.18	0.42
1:M:534:SER:CB	4:Z:351:THR:HA	2.49	0.42
1:P:406:VAL:O	1:P:412:ALA:HA	2.19	0.42
1:P:485:GLU:OE2	1:P:584:TYR:N	2.50	0.42
1:P:818:TYR:CD1	2:Q:127:ARG:CZ	3.02	0.42
1:P:836:PHE:CD1	2:Q:159:HIS:HA	2.36	0.42
3:R:63:ILE:CG2	3:R:64:THR:H	2.32	0.42
4:1:149:THR:HA	4:1:165:ILE:O	2.19	0.42
4:2:220:ALA:HB3	4:2:223:PHE:CD1	2.53	0.42
4:8:205:GLU:O	4:8:208:ILE:HG22	2.18	0.42
4:8:322:PRO:CB	4:V:244:ASP:CG	2.71	0.42
4:X:193:LEU:O	4:X:198:TYR:HD2	2.01	0.42
1:A:149:GLN:CD	1:A:716:LEU:CD2	2.73	0.42
1:A:195:TYR:CD2	1:A:199:ILE:HD13	2.54	0.42
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	0.42
1:A:445:ILE:HG22	1:A:449:LEU:HD22	2.01	0.42
1:A:768:MLY:H	1:A:771:LEU:HD22	1.84	0.42
3:C:50:LEU:O	3:C:53:PRO:HG2	2.18	0.42
1:D:42:HIS:C	1:D:42:HIS:ND1	2.77	0.42
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.42
1:D:655:GLU:CD	4:9:1:ASP:HB2	2.43	0.42
1:D:673:ARG:HD2	1:D:673:ARG:HA	1.79	0.42
1:D:819:ASN:HA	2:E:91:ALA:HA	2.00	0.42
1:D:829:TRP:O	1:D:832:MET:N	2.50	0.42
3:F:50:LEU:O	3:F:53:PRO:HG2	2.18	0.42
1:G:64:THR:CG2	1:G:65:GLU:H	2.32	0.42
1:G:97:LEU:HD12	1:G:97:LEU:HA	1.67	0.42
1:G:346:ASP:O	1:G:350:ALA:N	2.46	0.42
1:G:445:ILE:HG22	1:G:449:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:529:PRO:HB3	4:V:354:GLN:HA	2.00	0.42
1:G:568:PRO:O	1:G:570:PRO:HD3	2.19	0.42
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.42
1:J:409:GLY:HA3	4:W:332:PRO:C	2.43	0.42
1:J:418:THR:CG2	1:J:419:VAL:N	2.79	0.42
1:J:442:VAL:O	1:J:445:ILE:HB	2.19	0.42
1:J:556:ASP:HB3	4:Y:47:MET:HB2	1.00	0.42
1:M:195:TYR:CD2	1:M:199:ILE:HD13	2.54	0.42
1:M:408:VAL:HG22	1:M:636:LYS:HG2	1.52	0.42
1:M:725:ARG:CZ	1:M:737:PHE:CE1	3.02	0.42
1:M:817:GLN:CG	2:N:127:ARG:CG	2.77	0.42
1:M:836:PHE:CD2	2:N:160:GLY:HA3	2.53	0.42
1:P:14:ALA:N	1:P:15:PRO:CD	2.82	0.42
1:P:173:GLN:HG3	1:P:670:HIS:CD2	2.54	0.42
1:P:201:ALA:O	1:P:202:SER:OG	2.36	0.42
1:P:226:ASN:HB2	1:P:227:PRO:CD	2.47	0.42
1:P:541:MET:HB3	4:0:345:ILE:HG22	2.00	0.42
1:P:541:MET:HG2	4:0:345:ILE:HG23	2.01	0.42
1:P:655:GLU:CD	4:0:1:ASP:HB2	2.43	0.42
1:P:806:MET:CA	1:P:809:ARG:HD2	2.45	0.42
4:0:205:GLU:CB	4:Y:287:ILE:HD13	2.48	0.42
4:1:47:MET:HE2	4:1:47:MET:HB2	1.79	0.42
4:3:322:PRO:CA	4:5:244:ASP:HB2	2.49	0.42
4:4:47:MET:HE2	4:4:47:MET:HB2	1.79	0.42
4:4:180:LEU:HD11	4:4:261:LEU:HD23	2.01	0.42
4:9:193:LEU:O	4:9:198:TYR:HD2	2.01	0.42
4:X:149:THR:HA	4:X:165:ILE:O	2.19	0.42
1:A:60:VAL:O	1:A:72:VAL:N	2.51	0.42
1:A:202:SER:C	1:A:207:LYS:HE3	2.44	0.42
1:A:584:TYR:CD1	1:A:584:TYR:C	2.96	0.42
1:A:689:GLU:HA	1:A:692:LEU:HB2	2.00	0.42
1:A:692:LEU:HD23	1:A:692:LEU:HA	1.84	0.42
1:D:409:GLY:HA3	4:9:332:PRO:C	2.43	0.42
1:D:449:LEU:N	1:D:449:LEU:CD1	2.82	0.42
1:D:529:PRO:HB3	4:9:354:GLN:HA	2.00	0.42
1:D:724:TYR:HB3	1:D:782:MLY:CE	2.48	0.42
1:D:727:LEU:CG	1:D:782:MLY:HG2	2.40	0.42
2:E:140:PHE:CD2	2:E:144:VAL:HG11	2.54	0.42
1:G:62:VAL:O	1:G:69:THR:HA	2.19	0.42
1:G:141:LEU:HD12	1:G:141:LEU:N	2.32	0.42
1:G:711:PHE:HB3	1:G:766:PHE:HB3	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:725:ARG:CZ	1:G:737:PHE:CE1	3.02	0.42
1:G:732:ILE:CG2	1:G:747:LEU:CD1	0.65	0.42
1:G:741:LYS:HG2	1:G:742:LYS:N	2.35	0.42
2:H:140:PHE:CD2	2:H:144:VAL:HG11	2.55	0.42
1:J:86:ASP:OD2	1:J:87:MLY:HH22	2.19	0.42
1:J:445:ILE:HG22	1:J:449:LEU:HD22	2.01	0.42
1:J:502:GLU:C	1:J:504:MLY:N	2.77	0.42
1:M:14:ALA:N	1:M:15:PRO:CD	2.82	0.42
1:M:42:HIS:C	1:M:42:HIS:ND1	2.78	0.42
1:M:169:ASP:O	1:M:170:ARG:HB2	2.19	0.42
1:M:221:GLN:HG2	1:M:221:GLN:H	1.47	0.42
1:M:443:ILE:HG22	1:M:444:ARG:N	2.29	0.42
1:P:62:VAL:O	1:P:69:THR:HA	2.20	0.42
1:P:274:ARG:HH22	1:P:282:GLU:CD	2.27	0.42
1:P:445:ILE:HG22	1:P:449:LEU:HD22	2.01	0.42
1:P:496:PHE:HB2	1:P:515:PHE:CD2	2.53	0.42
1:P:502:GLU:C	1:P:504:MLY:N	2.77	0.42
1:P:534:SER:CB	4:0:351:THR:HA	2.49	0.42
1:P:826:VAL:O	1:P:828:HIS:N	2.53	0.42
4:0:201:VAL:HG21	4:Y:290:ARG:NH2	2.34	0.42
4:1:204:ALA:H	4:Z:287:ILE:HB	1.83	0.42
4:2:180:LEU:HD11	4:2:261:LEU:HD23	2.02	0.42
4:5:180:LEU:HD11	4:5:261:LEU:HD23	2.01	0.42
4:8:206:ARG:O	4:8:209:VAL:HG12	2.20	0.42
4:8:324:THR:HG23	4:V:245:GLY:HA2	1.09	0.42
4:V:205:GLU:O	4:V:208:ILE:HG22	2.18	0.42
4:W:180:LEU:HD11	4:W:261:LEU:HD23	2.01	0.42
1:A:64:THR:CG2	1:A:65:GLU:H	2.32	0.42
1:A:485:GLU:OE1	1:A:583:HIS:ND1	2.49	0.42
2:B:140:PHE:CD2	2:B:144:VAL:HG11	2.54	0.42
1:D:214:MET:C	1:D:340:ILE:HD13	2.45	0.42
1:D:442:VAL:O	1:D:445:ILE:HB	2.19	0.42
1:D:445:ILE:HG22	1:D:449:LEU:HD22	2.01	0.42
1:D:659:MLY:HH22	1:D:659:MLY:HD2	1.42	0.42
1:D:725:ARG:CZ	1:D:737:PHE:CE1	3.02	0.42
1:G:123:CYS:HB2	1:G:158:ILE:HD13	2.00	0.42
1:G:173:GLN:HG3	1:G:670:HIS:CD2	2.55	0.42
1:G:332:MET:H	1:G:332:MET:HG2	1.52	0.42
1:G:530:MET:CE	4:V:354:GLN:CB	2.95	0.42
1:J:62:VAL:O	1:J:69:THR:HA	2.20	0.42
1:J:173:GLN:HG3	1:J:670:HIS:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:214:MET:CA	1:J:340:ILE:HD11	2.45	0.42
1:J:223:ILE:C	1:J:225:ALA:N	2.76	0.42
1:J:295:MLY:CE	1:J:332:MET:CE	2.97	0.42
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.42
2:K:112:ILE:O	2:K:148:VAL:N	2.50	0.42
3:L:11:LYS:HB3	3:L:11:LYS:HE2	1.83	0.42
1:M:38:VAL:HG13	1:M:39:PHE:N	2.35	0.42
1:M:214:MET:C	1:M:340:ILE:HD13	2.45	0.42
1:M:294:ASN:OD1	1:M:307:THR:HG21	2.19	0.42
1:M:442:VAL:O	1:M:445:ILE:HB	2.19	0.42
1:M:568:PRO:O	1:M:570:PRO:HD3	2.19	0.42
1:M:599:ASN:CG	1:M:649:VAL:CB	2.80	0.42
1:P:86:ASP:OD2	1:P:87:MLY:HH22	2.18	0.42
4:0:180:LEU:HD11	4:0:261:LEU:HD23	2.01	0.42
4:1:196:ARG:HH21	4:1:249:THR:HG23	1.85	0.42
4:2:206:ARG:O	4:2:209:VAL:HG12	2.20	0.42
4:9:220:ALA:HB3	4:9:223:PHE:CD1	2.53	0.42
4:V:180:LEU:HD11	4:V:261:LEU:HD23	2.01	0.42
4:X:180:LEU:HD11	4:X:261:LEU:HD23	2.01	0.42
4:X:206:ARG:O	4:X:209:VAL:HG12	2.20	0.42
4:X:222:ASP:OD1	4:X:224:GLU:HB3	2.19	0.42
1:A:38:VAL:HG13	1:A:39:PHE:N	2.35	0.42
1:A:330:GLU:HG2	1:A:330:GLU:H	1.55	0.42
1:A:568:PRO:O	1:A:570:PRO:HD3	2.19	0.42
1:D:295:MLY:CE	1:D:332:MET:CE	2.97	0.42
1:D:406:VAL:O	1:D:412:ALA:HA	2.20	0.42
1:D:502:GLU:C	1:D:504:MLY:N	2.77	0.42
1:D:534:SER:CB	4:9:351:THR:HA	2.49	0.42
1:D:724:TYR:CB	1:D:782:MLY:CE	2.94	0.42
1:D:768:MLY:C	1:D:771:LEU:HA	2.50	0.42
1:G:406:VAL:O	1:G:412:ALA:HA	2.19	0.42
1:G:530:MET:CE	4:V:354:GLN:HG3	2.34	0.42
1:G:534:SER:CB	4:V:351:THR:HA	2.49	0.42
1:G:839:MLY:N	1:G:840:PRO:HD2	2.35	0.42
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.42
1:J:174:SER:HA	1:J:460:GLY:O	2.20	0.42
1:J:214:MET:C	1:J:340:ILE:HD13	2.45	0.42
1:J:449:LEU:N	1:J:449:LEU:CD1	2.81	0.42
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.42
1:J:537:GLU:C	4:W:350:SER:N	2.77	0.42
1:J:541:MET:HG2	4:W:345:ILE:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:819:ASN:ND2	2:K:92:ASP:CA	2.80	0.42
1:M:25:ILE:HG23	1:M:29:ASN:HD22	1.85	0.42
1:M:86:ASP:OD2	1:M:87:MLY:HH22	2.18	0.42
1:M:400:ALA:CB	1:M:606:THR:HG22	2.49	0.42
1:M:826:VAL:O	1:M:828:HIS:N	2.53	0.42
1:P:62:VAL:HG12	1:P:63:MLY:N	2.35	0.42
1:P:109:ARG:CD	1:P:117:THR:HB	2.49	0.42
1:P:271:GLU:OE1	1:P:274:ARG:NH1	2.53	0.42
1:P:330:GLU:HG2	1:P:330:GLU:H	1.54	0.42
1:P:552:ASN:HB3	4:2:41:GLN:HE22	1.84	0.42
1:P:568:PRO:O	1:P:570:PRO:HD3	2.19	0.42
1:P:642:LYS:HB2	4:0:24:ASP:O	1.88	0.42
1:P:725:ARG:CZ	1:P:737:PHE:CE1	3.02	0.42
1:P:795:ARG:CG	3:R:35:ARG:HH12	2.31	0.42
3:R:96:LYS:H	3:R:96:LYS:HG3	1.67	0.42
4:0:222:ASP:OD1	4:0:224:GLU:HB3	2.19	0.42
4:0:243:PRO:CB	4:Y:291:LYS:HZ1	2.29	0.42
4:3:180:LEU:HD11	4:3:261:LEU:HD23	2.01	0.42
4:8:196:ARG:HH21	4:8:249:THR:HG23	1.85	0.42
4:8:222:ASP:OD1	4:8:224:GLU:HB3	2.20	0.42
4:W:193:LEU:O	4:W:198:TYR:HD2	2.01	0.42
4:W:222:ASP:OD1	4:W:224:GLU:HB3	2.19	0.42
4:Y:180:LEU:HD11	4:Y:261:LEU:HD23	2.01	0.42
1:A:213:LYS:HA	1:A:220:ASP:OD2	2.18	0.42
1:A:744:SER:O	1:A:748:LEU:HD12	2.20	0.42
1:A:798:LEU:HD12	1:A:798:LEU:HA	1.37	0.42
1:A:842:LEU:N	1:A:842:LEU:CD1	2.82	0.42
2:B:112:ILE:O	2:B:148:VAL:N	2.50	0.42
1:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.42
1:D:204:GLU:N	1:D:207:LYS:HE3	2.23	0.42
1:D:279:LEU:CB	1:D:280:PRO:HD2	2.49	0.42
1:D:294:ASN:OD1	1:D:307:THR:HG21	2.19	0.42
1:D:519:LEU:HD12	1:D:519:LEU:H	1.83	0.42
1:D:795:ARG:NH1	3:F:116:GLU:OE2	2.39	0.42
1:D:798:LEU:HD12	1:D:798:LEU:HA	1.37	0.42
1:G:274:ARG:HH22	1:G:282:GLU:CD	2.27	0.42
1:G:510:TRP:CH2	1:G:768:MLY:HH11	2.55	0.42
1:G:578:HIS:CD2	1:G:592:ILE:H	2.38	0.42
1:J:271:GLU:OE1	1:J:274:ARG:NH1	2.53	0.42
1:J:462:LEU:HD11	1:J:464:ILE:CD1	2.50	0.42
1:J:578:HIS:CD2	1:J:592:ILE:H	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:754:ASP:C	1:J:756:THR:H	2.27	0.42
1:J:789:ALA:HB1	3:L:81:GLN:CG	2.49	0.42
1:M:62:VAL:O	1:M:69:THR:HA	2.20	0.42
1:M:132:LEU:C	1:M:134:VAL:H	2.28	0.42
1:M:213:LYS:HA	1:M:220:ASP:OD2	2.19	0.42
1:M:555:TYR:C	1:M:557:GLU:N	2.77	0.42
1:M:578:HIS:CD2	1:M:592:ILE:H	2.38	0.42
1:P:320:ILE:O	1:P:320:ILE:HG22	2.18	0.42
1:P:449:LEU:N	1:P:449:LEU:CD1	2.82	0.42
1:P:464:ILE:HD13	1:P:464:ILE:HG21	1.69	0.42
1:P:690:LEU:O	1:P:694:GLN:HG3	2.20	0.42
1:P:797:PHE:CE2	3:R:126:LEU:HD22	2.49	0.42
1:P:819:ASN:OD1	2:Q:91:ALA:CA	2.67	0.42
4:1:180:LEU:HD11	4:1:261:LEU:HD23	2.02	0.42
4:7:220:ALA:HB3	4:7:223:PHE:CD1	2.53	0.42
4:7:287:ILE:HA	4:9:202:THR:HG21	1.59	0.42
4:9:205:GLU:O	4:9:208:ILE:HG22	2.18	0.42
4:V:286:ASP:HA	4:X:202:THR:HG22	1.63	0.42
4:Y:222:ASP:OD1	4:Y:224:GLU:HB3	2.19	0.42
4:Z:205:GLU:O	4:Z:208:ILE:HG22	2.19	0.42
1:A:169:ASP:O	1:A:170:ARG:HB2	2.20	0.42
1:A:625:THR:H	1:A:625:THR:HG22	1.48	0.42
1:D:206:LYS:HD2	1:D:217:THR:CG2	2.17	0.42
1:D:215:GLN:H	1:D:340:ILE:CD1	2.20	0.42
1:D:409:GLY:N	1:D:636:LYS:CD	2.71	0.42
1:D:636:LYS:CB	4:9:334:GLU:OE1	2.68	0.42
1:D:725:ARG:HA	1:D:732:ILE:CG2	2.50	0.42
1:D:819:ASN:ND2	2:E:90:GLY:C	2.76	0.42
1:D:826:VAL:O	1:D:828:HIS:N	2.53	0.42
1:J:132:LEU:C	1:J:134:VAL:H	2.28	0.42
1:J:151:ALA:HB1	1:J:152:PRO:HD2	2.01	0.42
1:M:640:LYS:C	1:M:645:SER:HG	2.17	0.42
1:M:690:LEU:O	1:M:694:GLN:HG3	2.20	0.42
1:M:756:THR:HB	1:M:757:GLN:H	1.64	0.42
1:M:788:THR:HG22	3:O:42:THR:HG21	2.01	0.42
1:M:791:GLN:HE22	3:O:115:GLY:HA3	1.84	0.42
1:P:151:ALA:HB1	1:P:152:PRO:HD2	2.01	0.42
1:P:214:MET:C	1:P:340:ILE:HD13	2.45	0.42
1:P:322:VAL:CG1	1:P:325:ILE:HG13	2.49	0.42
1:P:747:LEU:O	1:P:749:GLY:N	2.53	0.42
1:P:797:PHE:CD1	3:R:146:ILE:HG23	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:113:LYS:O	2:Q:147:ASN:HB2	2.20	0.42
4:0:47:MET:HE2	4:0:47:MET:HB2	1.79	0.42
4:2:222:ASP:OD1	4:2:224:GLU:HB3	2.20	0.42
4:3:149:THR:HA	4:3:165:ILE:O	2.19	0.42
4:3:206:ARG:O	4:3:209:VAL:HG12	2.20	0.42
4:4:193:LEU:HD11	4:4:250:ILE:HG13	2.02	0.42
4:5:196:ARG:HH21	4:5:249:THR:HG23	1.85	0.42
4:7:299:MET:HE2	4:7:299:MET:HB2	1.82	0.42
4:8:315:LYS:HD2	4:8:315:LYS:HA	1.92	0.42
4:9:149:THR:HA	4:9:165:ILE:O	2.19	0.42
4:Z:369:ILE:HG23	4:Z:370:VAL:N	2.35	0.42
1:A:141:LEU:HD12	1:A:141:LEU:N	2.32	0.42
1:A:240:ASN:OD1	1:A:241:ASP:N	2.52	0.42
1:A:322:VAL:HA	1:A:323:PRO:HD3	1.87	0.42
1:A:406:VAL:O	1:A:412:ALA:HA	2.19	0.42
1:A:800:ARG:CB	3:C:149:VAL:CG2	2.62	0.42
2:B:113:LYS:O	2:B:147:ASN:HB2	2.20	0.42
1:D:320:ILE:O	1:D:320:ILE:HG22	2.18	0.42
1:D:534:SER:HB2	4:9:354:GLN:HE22	1.56	0.42
1:D:537:GLU:C	4:9:350:SER:N	2.77	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:741:LYS:HG2	1:D:742:LYS:N	2.35	0.42
1:D:795:ARG:NH1	3:F:116:GLU:CD	2.69	0.42
1:D:827:MLY:HH21	2:E:139:ALA:HB3	2.00	0.42
2:E:144:VAL:HG12	2:E:153:ILE:HD13	1.92	0.42
1:G:42:HIS:C	1:G:42:HIS:ND1	2.77	0.42
1:G:132:LEU:C	1:G:134:VAL:H	2.28	0.42
1:G:537:GLU:C	4:V:350:SER:N	2.78	0.42
1:J:11:GLY:O	1:J:14:ALA:HB3	2.20	0.42
1:J:226:ASN:HB2	1:J:227:PRO:CD	2.47	0.42
1:J:500:GLN:HB2	1:J:512:PHE:CZ	2.54	0.42
1:J:636:LYS:C	1:J:637:LYS:HG3	2.44	0.42
1:J:747:LEU:O	1:J:749:GLY:N	2.52	0.42
1:J:839:MLY:N	1:J:840:PRO:HD2	2.35	0.42
3:L:63:ILE:CG2	3:L:64:THR:H	2.33	0.42
1:M:11:GLY:O	1:M:14:ALA:HB3	2.20	0.42
1:M:28:GLN:CB	1:M:723:ARG:NH2	2.83	0.42
1:M:62:VAL:HG12	1:M:63:MLY:N	2.35	0.42
1:M:202:SER:C	1:M:207:LYS:HE3	2.44	0.42
1:M:274:ARG:HH22	1:M:282:GLU:CD	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:725:ARG:HA	1:M:732:ILE:CG2	2.50	0.42
1:M:744:SER:O	1:M:748:LEU:HD12	2.20	0.42
1:M:829:TRP:HA	1:M:830:PRO:HD2	1.86	0.42
3:O:25:ILE:O	3:O:63:ILE:CB	2.66	0.42
1:P:295:MLY:CE	1:P:332:MET:CE	2.97	0.42
1:P:408:VAL:HA	1:P:636:LYS:HG3	1.03	0.42
2:Q:112:ILE:O	2:Q:148:VAL:N	2.50	0.42
4:1:205:GLU:O	4:1:208:ILE:HG22	2.18	0.42
4:5:193:LEU:HD11	4:5:250:ILE:HG13	2.02	0.42
4:5:206:ARG:O	4:5:209:VAL:HG12	2.20	0.42
4:9:222:ASP:OD1	4:9:224:GLU:HB3	2.19	0.42
4:9:287:ILE:CB	4:W:204:ALA:H	2.13	0.42
4:V:222:ASP:OD1	4:V:224:GLU:HB3	2.19	0.42
4:X:205:GLU:O	4:X:208:ILE:HG22	2.18	0.42
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.20	0.42
1:A:110:TYR:O	1:A:113:TRP:N	2.42	0.42
1:A:166:MET:HE1	1:A:254:PHE:CB	2.46	0.42
1:A:173:GLN:HG3	1:A:670:HIS:CD2	2.54	0.42
1:A:195:TYR:CE2	1:A:199:ILE:HD13	2.55	0.42
1:A:214:MET:C	1:A:340:ILE:HD13	2.45	0.42
1:A:578:HIS:CD2	1:A:592:ILE:H	2.38	0.42
1:A:741:LYS:HG2	1:A:742:LYS:N	2.35	0.42
1:A:795:ARG:HD2	3:C:43:ASN:CG	2.44	0.42
1:A:800:ARG:O	3:C:149:VAL:HG23	2.11	0.42
1:D:86:ASP:OD2	1:D:87:MLY:HH22	2.19	0.42
1:D:210:GLN:C	1:D:211:SER:HG	2.22	0.42
1:D:462:LEU:HD11	1:D:464:ILE:CD1	2.50	0.42
1:D:690:LEU:O	1:D:694:GLN:HG3	2.19	0.42
3:F:48:LYS:HA	3:F:48:LYS:HD3	1.17	0.42
1:G:38:VAL:HG13	1:G:39:PHE:N	2.35	0.42
1:G:62:VAL:HG12	1:G:63:MLY:N	2.35	0.42
1:G:400:ALA:CB	1:G:606:THR:HG22	2.49	0.42
1:G:556:ASP:HB2	4:X:47:MET:HE2	1.05	0.42
1:G:633:GLY:HA2	4:V:25:ASP:HA	1.26	0.42
1:J:28:GLN:OE1	1:J:723:ARG:NH1	2.42	0.42
1:J:42:HIS:C	1:J:42:HIS:ND1	2.78	0.42
1:J:97:LEU:CD2	1:J:712:PRO:HB2	2.41	0.42
1:J:530:MET:CE	4:W:354:GLN:CB	2.96	0.42
1:J:632:GLY:HA3	1:J:643:GLY:N	2.17	0.42
1:J:787:ILE:HG23	1:J:791:GLN:HG3	2.00	0.42
1:M:81:ASN:CG	1:M:96:HIS:HB2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:409:GLY:N	1:M:636:LYS:CD	2.70	0.42
1:M:741:LYS:HG2	1:M:742:LYS:N	2.35	0.42
1:M:829:TRP:O	1:M:832:MET:N	2.50	0.42
1:P:11:GLY:O	1:P:14:ALA:HB3	2.20	0.42
1:P:106:LEU:HD12	1:P:106:LEU:HA	1.79	0.42
1:P:354:LEU:HD12	1:P:354:LEU:HA	1.56	0.42
1:P:724:TYR:HB3	1:P:727:LEU:CD1	2.48	0.42
1:P:769:ALA:C	1:P:771:LEU:CA	2.89	0.42
4:0:369:ILE:HG23	4:0:370:VAL:N	2.35	0.42
4:1:45:VAL:CG2	4:Z:148:THR:HG21	2.50	0.42
4:1:222:ASP:OD1	4:1:224:GLU:HB3	2.19	0.42
4:2:193:LEU:HD11	4:2:250:ILE:HG13	2.02	0.42
4:3:193:LEU:HD11	4:3:250:ILE:HG13	2.02	0.42
4:4:196:ARG:HH21	4:4:249:THR:HG23	1.85	0.42
4:4:315:LYS:HD2	4:4:315:LYS:HA	1.92	0.42
4:7:369:ILE:HG23	4:7:370:VAL:N	2.35	0.42
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.42
4:V:206:ARG:O	4:V:209:VAL:HG12	2.20	0.42
4:W:206:ARG:O	4:W:209:VAL:HG12	2.20	0.42
4:Z:180:LEU:HD11	4:Z:261:LEU:HD23	2.01	0.42
4:Z:206:ARG:O	4:Z:209:VAL:HG12	2.20	0.42
1:A:274:ARG:HH22	1:A:282:GLU:CD	2.27	0.42
1:A:498:LEU:HD21	1:A:764:MLY:HH22	1.98	0.42
1:A:797:PHE:CD2	1:A:798:LEU:HD12	2.55	0.42
1:D:14:ALA:HB3	1:D:15:PRO:CD	2.46	0.42
1:D:308:ASN:HA	1:D:309:PRO:HD2	1.88	0.42
1:D:471:ASP:CB	1:D:573:GLY:O	2.68	0.42
1:D:568:PRO:O	1:D:570:PRO:HD3	2.19	0.42
1:D:578:HIS:CD2	1:D:592:ILE:H	2.38	0.42
1:D:754:ASP:C	1:D:756:THR:H	2.27	0.42
3:F:49:ILE:CA	3:F:52:ASN:ND2	2.53	0.42
3:F:62:ALA:O	3:F:63:ILE:HG13	2.14	0.42
1:G:169:ASP:O	1:G:170:ARG:HB2	2.19	0.42
1:G:787:ILE:HG21	1:G:787:ILE:HD13	1.67	0.42
2:H:140:PHE:HA	2:H:141:PRO:HD2	1.57	0.42
1:J:690:LEU:O	1:J:694:GLN:HG3	2.20	0.42
1:J:795:ARG:HD2	3:L:43:ASN:N	2.34	0.42
1:M:406:VAL:O	1:M:412:ALA:HA	2.19	0.42
1:M:530:MET:CE	4:Z:354:GLN:CB	2.95	0.42
1:M:541:MET:HG2	4:Z:345:ILE:HG23	2.01	0.42
1:M:636:LYS:C	1:M:637:LYS:HG3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:636:LYS:CB	4:Z:334:GLU:OE1	2.68	0.42
1:M:673:ARG:HD2	1:M:673:ARG:HA	1.79	0.42
1:M:797:PHE:CD2	1:M:798:LEU:HD12	2.55	0.42
3:O:63:ILE:CG2	3:O:64:THR:H	2.33	0.42
1:P:174:SER:HA	1:P:460:GLY:O	2.20	0.42
1:P:408:VAL:HA	1:P:636:LYS:HG2	1.14	0.42
1:P:744:SER:O	1:P:748:LEU:HD12	2.20	0.42
1:P:803:TYR:CE1	1:P:807:VAL:HG21	2.55	0.42
4:0:221:LEU:HA	4:0:312:ARG:HG2	2.02	0.42
4:1:206:ARG:O	4:1:209:VAL:HG12	2.20	0.42
4:7:221:LEU:HA	4:7:312:ARG:HG2	2.02	0.42
4:9:221:LEU:HA	4:9:312:ARG:HG2	2.02	0.42
4:9:324:THR:N	4:W:245:GLY:CA	2.69	0.42
4:9:369:ILE:HG23	4:9:370:VAL:N	2.35	0.42
4:V:193:LEU:HD11	4:V:250:ILE:HG13	2.02	0.42
4:V:315:LYS:HD2	4:V:315:LYS:HA	1.92	0.42
4:W:221:LEU:HA	4:W:312:ARG:HG2	2.02	0.42
4:X:291:LYS:HG3	4:Z:243:PRO:O	2.19	0.42
4:X:369:ILE:HG23	4:X:370:VAL:N	2.35	0.42
4:Y:221:LEU:HA	4:Y:312:ARG:HG2	2.02	0.42
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	0.42
4:Z:193:LEU:HD11	4:Z:250:ILE:HG13	2.02	0.42
1:A:541:MET:HG2	4:8:345:ILE:HG23	2.01	0.41
1:A:659:MLY:HD2	1:A:659:MLY:HH22	1.42	0.41
1:A:690:LEU:O	1:A:694:GLN:HG3	2.20	0.41
1:A:800:ARG:CA	3:C:149:VAL:HG22	2.46	0.41
1:A:829:TRP:O	1:A:832:MET:N	2.50	0.41
1:D:129:TYR:HD1	1:D:129:TYR:HA	1.65	0.41
1:D:132:LEU:C	1:D:134:VAL:H	2.28	0.41
1:D:151:ALA:HB1	1:D:152:PRO:HD2	2.01	0.41
1:D:174:SER:HA	1:D:460:GLY:O	2.20	0.41
1:D:296:MLY:HH11	1:D:348:MLY:CH2	2.48	0.41
1:D:530:MET:CE	4:9:354:GLN:HG3	2.35	0.41
1:D:701:LEU:HD12	1:D:701:LEU:HA	1.55	0.41
1:D:712:PRO:HB2	1:D:771:LEU:HD22	1.99	0.41
1:D:747:LEU:O	1:D:749:GLY:N	2.52	0.41
1:D:787:ILE:HG21	1:D:787:ILE:HD13	1.67	0.41
1:D:797:PHE:CD2	1:D:798:LEU:HD12	2.55	0.41
1:D:839:MLY:N	1:D:840:PRO:HD2	2.35	0.41
1:G:11:GLY:O	1:G:14:ALA:HB3	2.20	0.41
1:G:56:GLU:HB2	1:G:59:MLY:CB	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:81:ASN:CG	1:G:96:HIS:HB2	2.45	0.41
1:G:369:MLY:HH22	1:G:369:MLY:HD3	1.79	0.41
1:G:538:GLU:OE1	4:V:355:MET:HE1	2.18	0.41
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	0.41
1:G:568:PRO:CG	1:G:578:HIS:N	2.83	0.41
1:G:584:TYR:CD1	1:G:584:TYR:C	2.96	0.41
1:G:754:ASP:C	1:G:756:THR:H	2.27	0.41
1:G:771:LEU:C	1:G:773:GLY:N	2.75	0.41
1:G:800:ARG:HH22	3:I:40:ASN:CG	2.15	0.41
1:G:817:GLN:HG3	2:H:128:PHE:CZ	2.55	0.41
1:G:829:TRP:CH2	2:H:83:MET:CE	2.81	0.41
2:H:141:PRO:CB	2:H:142:PRO:HD3	2.48	0.41
1:J:84:MLY:HH12	1:J:715:VAL:HG21	2.01	0.41
1:J:195:TYR:CE2	1:J:199:ILE:HD13	2.55	0.41
1:J:346:ASP:O	1:J:350:ALA:N	2.46	0.41
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.41
1:J:665:ARG:C	1:J:667:THR:N	2.74	0.41
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.41
1:J:741:LYS:HG2	1:J:742:LYS:N	2.35	0.41
1:M:217:THR:CA	1:M:221:GLN:HE21	2.33	0.41
1:M:747:LEU:O	1:M:749:GLY:N	2.52	0.41
1:M:839:MLY:HD2	2:N:159:HIS:HB3	2.01	0.41
1:M:842:LEU:N	1:M:842:LEU:CD1	2.83	0.41
2:N:149:ASP:OD2	2:N:150:TYR:CA	2.64	0.41
3:O:48:LYS:HD3	3:O:48:LYS:HA	1.17	0.41
1:P:132:LEU:C	1:P:134:VAL:H	2.28	0.41
1:P:135:TYR:HD2	1:P:191:ARG:CG	2.33	0.41
1:P:296:MLY:HH11	1:P:348:MLY:CH2	2.48	0.41
1:P:335:ASP:O	1:P:338:ILE:HB	2.20	0.41
1:P:537:GLU:C	4:0:350:SER:N	2.77	0.41
1:P:578:HIS:CD2	1:P:592:ILE:H	2.38	0.41
1:P:642:LYS:HE2	4:0:344:SER:HA	1.57	0.41
4:0:206:ARG:O	4:0:209:VAL:HG12	2.20	0.41
4:2:196:ARG:HH21	4:2:249:THR:HG23	1.85	0.41
4:3:324:THR:CG2	4:5:244:ASP:O	2.68	0.41
4:3:369:ILE:HG23	4:3:370:VAL:N	2.35	0.41
4:4:222:ASP:OD1	4:4:224:GLU:HB3	2.19	0.41
4:7:193:LEU:HD11	4:7:250:ILE:HG13	2.02	0.41
4:7:222:ASP:OD1	4:7:224:GLU:HB3	2.19	0.41
4:V:369:ILE:HG23	4:V:370:VAL:N	2.35	0.41
4:W:369:ILE:HG23	4:W:370:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:324:THR:CB	4:Z:246:GLN:C	2.91	0.41
4:Y:206:ARG:O	4:Y:209:VAL:HG12	2.20	0.41
4:Z:226:GLU:HG3	4:Z:255:PHE:CE2	2.56	0.41
1:A:132:LEU:C	1:A:134:VAL:H	2.28	0.41
1:A:330:GLU:OE1	1:A:330:GLU:HA	2.21	0.41
1:A:553:MLY:HE2	4:V:45:VAL:CA	2.38	0.41
1:A:636:LYS:C	1:A:637:LYS:HG3	2.44	0.41
2:B:137:TRP:CA	2:B:145:ALA:HB2	2.37	0.41
1:D:271:GLU:OE1	1:D:274:ARG:NH1	2.53	0.41
1:D:356:GLY:HA2	1:D:359:MET:HG3	2.02	0.41
1:D:398:LEU:HA	1:D:398:LEU:HD12	1.83	0.41
1:D:466:GLY:CA	1:D:484:ASN:HD21	2.32	0.41
1:D:568:PRO:CG	1:D:578:HIS:N	2.84	0.41
1:D:769:ALA:N	1:D:771:LEU:HA	2.25	0.41
1:G:195:TYR:CE2	1:G:199:ILE:HD13	2.55	0.41
1:G:202:SER:C	1:G:207:LYS:HE3	2.44	0.41
1:G:541:MET:HB3	4:V:345:ILE:HG22	2.01	0.41
1:J:655:GLU:CD	4:W:1:ASP:HB2	2.43	0.41
1:J:744:SER:O	1:J:748:LEU:HD12	2.20	0.41
1:M:60:VAL:O	1:M:72:VAL:N	2.51	0.41
1:M:135:TYR:HD2	1:M:191:ARG:CG	2.33	0.41
1:M:155:ILE:HG22	1:M:156:PHE:N	2.33	0.41
1:P:195:TYR:CE2	1:P:199:ILE:HD13	2.55	0.41
1:P:568:PRO:CG	1:P:578:HIS:N	2.83	0.41
1:P:636:LYS:CB	4:0:334:GLU:OE1	2.68	0.41
1:P:725:ARG:HA	1:P:732:ILE:CG2	2.50	0.41
1:P:813:ILE:CG2	2:Q:128:PHE:HE1	2.32	0.41
2:Q:137:TRP:CA	2:Q:145:ALA:HB2	2.37	0.41
2:Q:149:ASP:CG	2:Q:150:TYR:N	2.49	0.41
4:1:193:LEU:HD11	4:1:250:ILE:HG13	2.02	0.41
4:3:205:GLU:O	4:3:208:ILE:HG22	2.18	0.41
4:3:221:LEU:HA	4:3:312:ARG:HG2	2.02	0.41
4:3:222:ASP:OD1	4:3:224:GLU:HB3	2.19	0.41
4:4:226:GLU:HG3	4:4:255:PHE:CE2	2.55	0.41
4:5:369:ILE:HG23	4:5:370:VAL:N	2.35	0.41
4:7:206:ARG:O	4:7:209:VAL:HG12	2.20	0.41
4:7:287:ILE:N	4:9:202:THR:CG2	2.77	0.41
4:9:196:ARG:HH21	4:9:249:THR:HG23	1.85	0.41
4:W:193:LEU:HD11	4:W:250:ILE:HG13	2.02	0.41
4:X:193:LEU:HD11	4:X:250:ILE:HG13	2.02	0.41
4:Y:193:LEU:HD11	4:Y:250:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:25:ILE:HG23	1:A:29:ASN:HD22	1.85	0.41
1:A:62:VAL:HG12	1:A:63:MLY:N	2.35	0.41
1:A:81:ASN:CG	1:A:96:HIS:HB2	2.45	0.41
1:A:110:TYR:C	1:A:112:ALA:N	2.78	0.41
1:A:135:TYR:HD2	1:A:191:ARG:CG	2.33	0.41
1:A:732:ILE:CG2	1:A:747:LEU:HD12	0.35	0.41
1:A:747:LEU:O	1:A:749:GLY:N	2.52	0.41
1:A:775:LEU:HA	1:A:775:LEU:HD12	1.71	0.41
1:A:839:MLY:N	1:A:840:PRO:HD2	2.35	0.41
2:B:139:ALA:O	2:B:141:PRO:CD	2.51	0.41
1:D:11:GLY:O	1:D:14:ALA:HB3	2.20	0.41
1:D:723:ARG:CG	1:D:723:ARG:NH1	2.80	0.41
1:D:815:CYS:O	2:E:90:GLY:O	2.38	0.41
1:G:110:TYR:C	1:G:112:ALA:N	2.79	0.41
1:G:136:ASN:O	1:G:138:MLY:N	2.54	0.41
1:G:553:MLY:C	4:X:46:GLY:HA3	2.50	0.41
1:G:744:SER:O	1:G:748:LEU:HD12	2.20	0.41
3:I:56:GLU:OE1	3:I:59:ASN:ND2	2.54	0.41
1:J:568:PRO:CG	1:J:578:HIS:N	2.84	0.41
1:J:793:ARG:HH11	3:L:40:ASN:HD22	1.67	0.41
1:J:797:PHE:CD2	1:J:798:LEU:HD12	2.55	0.41
2:K:140:PHE:CD2	2:K:144:VAL:HG11	2.54	0.41
3:L:25:ILE:O	3:L:63:ILE:CB	2.66	0.41
1:M:173:GLN:HG3	1:M:670:HIS:CD2	2.54	0.41
1:M:539:GLU:OE2	1:M:553:MLY:HD3	2.20	0.41
1:M:725:ARG:CG	1:M:733:PRO:HA	2.43	0.41
1:M:805:ALA:O	1:M:808:GLU:N	2.54	0.41
2:N:113:LYS:O	2:N:147:ASN:HB2	2.20	0.41
2:N:140:PHE:CD2	2:N:144:VAL:HG11	2.54	0.41
1:P:136:ASN:O	1:P:138:MLY:N	2.54	0.41
1:P:471:ASP:CB	1:P:573:GLY:O	2.68	0.41
1:P:500:GLN:HB2	1:P:512:PHE:CZ	2.54	0.41
1:P:530:MET:CA	4:0:354:GLN:CD	2.86	0.41
1:P:718:ALA:C	1:P:720:PHE:N	2.79	0.41
1:P:792:ALA:CA	3:R:42:THR:HG22	2.41	0.41
4:0:193:LEU:HD11	4:0:250:ILE:HG13	2.02	0.41
4:0:205:GLU:HG2	4:Y:287:ILE:CD1	2.47	0.41
4:2:369:ILE:HG23	4:2:370:VAL:N	2.35	0.41
4:8:193:LEU:HD11	4:8:250:ILE:HG13	2.02	0.41
4:8:369:ILE:HG23	4:8:370:VAL:N	2.35	0.41
1:A:11:GLY:O	1:A:14:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	0.41
1:A:568:PRO:CG	1:A:578:HIS:N	2.84	0.41
3:C:11:LYS:HE2	3:C:11:LYS:HB3	1.83	0.41
3:C:63:ILE:CG2	3:C:64:THR:H	2.33	0.41
1:D:81:ASN:CG	1:D:96:HIS:HB2	2.45	0.41
1:D:87:MLY:HH12	1:D:87:MLY:HD3	1.61	0.41
1:D:500:GLN:HB2	1:D:512:PHE:CZ	2.54	0.41
2:E:113:LYS:O	2:E:147:ASN:HB2	2.20	0.41
1:G:60:VAL:O	1:G:72:VAL:N	2.51	0.41
1:G:330:GLU:OE1	1:G:330:GLU:HA	2.20	0.41
1:G:471:ASP:CB	1:G:573:GLY:O	2.68	0.41
1:G:534:SER:HB2	4:V:354:GLN:HE22	1.57	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG22	2.00	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG23	2.01	0.41
1:G:725:ARG:HA	1:G:732:ILE:CG2	2.50	0.41
1:G:813:ILE:CG2	2:H:128:PHE:HZ	2.09	0.41
1:G:826:VAL:O	1:G:828:HIS:N	2.53	0.41
1:J:136:ASN:O	1:J:138:MLY:N	2.54	0.41
1:J:332:MET:H	1:J:332:MET:HG2	1.52	0.41
1:J:471:ASP:CB	1:J:573:GLY:O	2.68	0.41
1:J:661:MET:HE3	1:J:661:MET:HB3	1.74	0.41
1:M:166:MET:CE	1:M:254:PHE:HB2	2.47	0.41
1:M:215:GLN:H	1:M:340:ILE:CD1	2.20	0.41
1:M:771:LEU:C	1:M:773:GLY:N	2.75	0.41
1:P:110:TYR:C	1:P:112:ALA:N	2.79	0.41
1:P:202:SER:HB2	1:P:207:LYS:HZ1	1.85	0.41
1:P:204:GLU:N	1:P:207:LYS:HE3	2.23	0.41
1:P:732:ILE:HG23	1:P:747:LEU:HD13	1.37	0.41
4:1:148:THR:OG1	4:3:45:VAL:HG23	2.21	0.41
4:8:227:MET:O	4:8:230:ALA:HB3	2.21	0.41
4:9:226:GLU:HG3	4:9:255:PHE:CE2	2.55	0.41
4:Z:196:ARG:HH21	4:Z:249:THR:HG23	1.85	0.41
4:Z:299:MET:HE2	4:Z:299:MET:HB2	1.82	0.41
4:Z:315:LYS:HD2	4:Z:315:LYS:HA	1.92	0.41
1:A:136:ASN:O	1:A:138:MLY:N	2.54	0.41
1:A:398:LEU:HA	1:A:398:LEU:HD12	1.84	0.41
1:A:505:MLY:CH1	1:A:762:HIS:O	2.61	0.41
1:A:739:ASP:OD1	1:A:739:ASP:C	2.58	0.41
1:D:25:ILE:HG23	1:D:29:ASN:HD22	1.85	0.41
1:D:135:TYR:CD2	1:D:191:ARG:HD3	2.55	0.41
1:D:173:GLN:HG3	1:D:670:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:718:ALA:C	1:D:720:PHE:N	2.79	0.41
1:D:798:LEU:CD2	3:F:126:LEU:CD1	2.95	0.41
1:G:135:TYR:HD2	1:G:191:ARG:CG	2.33	0.41
1:G:217:THR:CA	1:G:221:GLN:HE21	2.33	0.41
1:G:636:LYS:CB	4:V:334:GLU:OE1	2.68	0.41
1:G:717:TYR:OH	1:G:760:PHE:HB3	2.21	0.41
1:J:63:MLY:HD3	1:J:63:MLY:HH23	1.76	0.41
1:J:354:LEU:HD12	1:J:354:LEU:HA	1.55	0.41
1:J:659:MLY:HD2	1:J:659:MLY:HH22	1.42	0.41
1:J:732:ILE:HG21	1:J:747:LEU:CD1	0.63	0.41
1:J:826:VAL:O	1:J:828:HIS:N	2.53	0.41
1:J:830:PRO:HB3	2:K:67:MET:CE	2.47	0.41
2:K:144:VAL:HG12	2:K:153:ILE:HD13	1.92	0.41
1:M:14:ALA:HB3	1:M:15:PRO:CD	2.46	0.41
1:M:195:TYR:CE2	1:M:199:ILE:HD13	2.55	0.41
1:M:462:LEU:HD11	1:M:464:ILE:CD1	2.50	0.41
1:M:727:LEU:HD21	1:M:776:GLU:OE2	2.21	0.41
1:M:804:ARG:O	1:M:808:GLU:HB2	2.20	0.41
1:P:539:GLU:OE2	1:P:553:MLY:HD3	2.20	0.41
1:P:756:THR:HB	1:P:757:GLN:H	1.63	0.41
1:P:840:PRO:C	1:P:842:LEU:N	2.79	0.41
4:0:226:GLU:HG3	4:0:255:PHE:CE2	2.55	0.41
4:2:227:MET:O	4:2:230:ALA:HB3	2.21	0.41
4:3:148:THR:HG21	4:5:45:VAL:CG2	2.50	0.41
4:5:221:LEU:HA	4:5:312:ARG:HG2	2.02	0.41
4:5:222:ASP:OD1	4:5:224:GLU:HB3	2.19	0.41
4:7:226:GLU:HG3	4:7:255:PHE:CE2	2.55	0.41
4:9:193:LEU:HD11	4:9:250:ILE:HG13	2.02	0.41
4:9:299:MET:HE2	4:9:299:MET:HB2	1.82	0.41
4:W:226:GLU:HG3	4:W:255:PHE:CE2	2.55	0.41
4:X:315:LYS:HD2	4:X:315:LYS:HA	1.92	0.41
1:A:221:GLN:HG2	1:A:221:GLN:H	1.47	0.41
1:A:712:PRO:HB2	1:A:713:SER:H	1.61	0.41
1:A:798:LEU:HD13	3:C:126:LEU:CD1	2.41	0.41
1:A:826:VAL:O	1:A:828:HIS:N	2.53	0.41
1:D:62:VAL:O	1:D:69:THR:HA	2.20	0.41
1:D:166:MET:HE1	1:D:254:PHE:CB	2.46	0.41
1:D:330:GLU:HA	1:D:330:GLU:OE1	2.21	0.41
1:D:506:GLU:HG2	1:D:764:MLY:HE2	2.03	0.41
1:D:530:MET:CA	4:9:354:GLN:CD	2.86	0.41
1:D:744:SER:O	1:D:748:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:SER:HA	1:G:460:GLY:O	2.20	0.41
1:G:308:ASN:HA	1:G:309:PRO:HD2	1.88	0.41
1:G:462:LEU:HD11	1:G:464:ILE:CD1	2.50	0.41
1:G:553:MLY:CB	4:X:46:GLY:HA3	2.49	0.41
1:G:636:LYS:C	1:G:637:LYS:HG3	2.44	0.41
3:I:25:ILE:O	3:I:63:ILE:CB	2.66	0.41
1:J:464:ILE:HD13	1:J:464:ILE:HG21	1.69	0.41
1:J:717:TYR:OH	1:J:760:PHE:HB3	2.21	0.41
1:M:95:THR:CA	1:M:713:SER:CB	2.79	0.41
1:M:174:SER:HA	1:M:460:GLY:O	2.20	0.41
1:M:240:ASN:OD1	1:M:241:ASP:N	2.52	0.41
1:M:330:GLU:OE1	1:M:330:GLU:HA	2.20	0.41
1:M:568:PRO:CG	1:M:578:HIS:N	2.83	0.41
1:M:701:LEU:HD12	1:M:701:LEU:HA	1.55	0.41
1:M:840:PRO:C	1:M:842:LEU:N	2.79	0.41
3:O:56:GLU:OE1	3:O:59:ASN:ND2	2.54	0.41
1:P:14:ALA:HB3	1:P:15:PRO:CD	2.46	0.41
1:P:42:HIS:ND1	1:P:42:HIS:C	2.78	0.41
1:P:330:GLU:HA	1:P:330:GLU:OE1	2.21	0.41
1:P:797:PHE:CD2	1:P:798:LEU:HD12	2.55	0.41
1:P:839:MLY:N	1:P:840:PRO:HD2	2.34	0.41
3:R:56:GLU:OE1	3:R:59:ASN:ND2	2.54	0.41
4:1:244:ASP:O	4:Z:324:THR:CG2	2.68	0.41
4:2:144:ALA:HB2	4:2:342:GLY:CA	2.51	0.41
4:2:221:LEU:HA	4:2:312:ARG:HG2	2.02	0.41
4:3:288:ASP:CA	4:5:203:THR:CG2	2.99	0.41
4:7:32:PRO:HB2	4:7:34:ILE:CD1	2.51	0.41
4:8:288:ASP:OD1	4:V:204:ALA:HA	2.20	0.41
4:X:227:MET:O	4:X:230:ALA:HB3	2.21	0.41
4:Y:226:GLU:HG3	4:Y:255:PHE:CE2	2.55	0.41
1:A:174:SER:HA	1:A:460:GLY:O	2.20	0.41
1:A:771:LEU:C	1:A:773:GLY:N	2.75	0.41
2:B:150:TYR:HB3	2:B:151:LYS:HG3	2.03	0.41
3:C:96:LYS:H	3:C:96:LYS:HG3	1.66	0.41
1:D:354:LEU:HD12	1:D:354:LEU:HA	1.56	0.41
1:G:449:LEU:HA	1:G:449:LEU:HD12	1.60	0.41
1:G:642:LYS:HE2	4:V:344:SER:HA	1.56	0.41
1:G:783:LEU:C	1:G:787:ILE:HB	2.43	0.41
1:G:792:ALA:CB	3:I:42:THR:CB	2.41	0.41
1:G:797:PHE:CD2	1:G:798:LEU:HD12	2.55	0.41
1:J:14:ALA:HB3	1:J:15:PRO:CD	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:62:VAL:HG12	1:J:63:MLY:N	2.34	0.41
1:J:204:GLU:N	1:J:207:LYS:HE3	2.23	0.41
1:J:289:TYR:OH	1:J:315:VAL:O	2.27	0.41
1:J:335:ASP:O	1:J:338:ILE:HB	2.20	0.41
1:M:226:ASN:HB2	1:M:227:PRO:CD	2.47	0.41
1:M:471:ASP:CB	1:M:573:GLY:O	2.68	0.41
1:M:530:MET:CB	4:Z:354:GLN:CB	2.95	0.41
1:M:536:LEU:HA	1:M:536:LEU:HD12	1.69	0.41
1:M:538:GLU:OE1	4:Z:355:MET:HE1	2.17	0.41
1:M:803:TYR:CE2	3:O:17:PHE:CZ	3.08	0.41
1:M:805:ALA:C	1:M:809:ARG:HG3	2.45	0.41
1:P:60:VAL:O	1:P:72:VAL:N	2.51	0.41
1:P:148:ARG:NH2	1:P:764:MLY:HH11	2.36	0.41
1:P:193:ILE:CD1	1:P:250:ILE:HD13	2.51	0.41
1:P:218:LEU:HD22	1:P:222:ILE:HG13	1.95	0.41
1:P:356:GLY:HA2	1:P:359:MET:HG3	2.02	0.41
1:P:549:SER:HA	4:2:49:GLN:CG	2.49	0.41
1:P:635:GLY:C	4:0:341:ILE:HG21	2.45	0.41
1:P:767:PHE:HB3	1:P:772:LEU:CD2	2.50	0.41
2:Q:149:ASP:OD2	2:Q:150:TYR:CA	2.64	0.41
4:0:196:ARG:HH21	4:0:249:THR:HG23	1.85	0.41
4:0:204:ALA:HB1	4:Y:288:ASP:CB	2.48	0.41
4:1:203:THR:CG2	4:Z:288:ASP:CA	2.99	0.41
4:2:32:PRO:HB2	4:2:34:ILE:CD1	2.51	0.41
4:3:196:ARG:HH21	4:3:249:THR:HG23	1.85	0.41
4:3:226:GLU:HG3	4:3:255:PHE:CE2	2.56	0.41
4:4:206:ARG:O	4:4:209:VAL:HG12	2.20	0.41
4:7:196:ARG:HH21	4:7:249:THR:HG23	1.85	0.41
4:8:144:ALA:HB2	4:8:342:GLY:CA	2.51	0.41
4:8:226:GLU:HG3	4:8:255:PHE:CE2	2.55	0.41
4:9:32:PRO:HB2	4:9:34:ILE:CD1	2.51	0.41
4:9:206:ARG:O	4:9:209:VAL:HG12	2.20	0.41
4:V:299:MET:HE2	4:V:299:MET:HB2	1.82	0.41
4:W:227:MET:O	4:W:230:ALA:HB3	2.21	0.41
4:X:32:PRO:HB2	4:X:34:ILE:CD1	2.51	0.41
4:Y:196:ARG:HH21	4:Y:249:THR:HG23	1.85	0.41
1:A:530:MET:HE3	4:8:354:GLN:HG2	1.90	0.41
1:A:717:TYR:OH	1:A:760:PHE:HB3	2.21	0.41
1:A:801:VAL:N	3:C:149:VAL:HG21	2.32	0.41
1:A:812:SER:O	1:A:816:ILE:HG13	2.21	0.41
1:D:62:VAL:HG12	1:D:63:MLY:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:322:VAL:HB	1:D:325:ILE:HD12	2.03	0.41
1:G:172:ASN:OD1	1:G:457:TYR:HA	2.21	0.41
1:G:193:ILE:CD1	1:G:250:ILE:HD13	2.51	0.41
1:G:214:MET:C	1:G:340:ILE:HD13	2.45	0.41
1:G:384:ASP:HA	1:G:394:SER:OG	2.21	0.41
1:G:449:LEU:N	1:G:449:LEU:CD1	2.82	0.41
1:G:555:TYR:C	1:G:557:GLU:N	2.78	0.41
1:G:690:LEU:O	1:G:694:GLN:HG3	2.20	0.41
1:G:815:CYS:SG	2:H:92:ASP:CG	3.04	0.41
3:I:95:ASP:OD1	3:I:139:TYR:HE1	2.04	0.41
1:J:81:ASN:CG	1:J:96:HIS:HB2	2.45	0.41
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.41
1:J:322:VAL:HG12	1:J:325:ILE:HG13	2.03	0.41
1:J:539:GLU:OE2	1:J:553:MLY:HD3	2.20	0.41
1:J:610:LEU:N	1:J:610:LEU:CD1	2.84	0.41
1:J:657:LEU:HD12	1:J:657:LEU:O	2.21	0.41
1:J:735:GLY:HA3	1:J:743:ALA:HA	2.01	0.41
1:J:829:TRP:HZ3	2:K:84:PHE:CD1	2.26	0.41
1:M:129:TYR:HD1	1:M:129:TYR:HA	1.65	0.41
1:M:193:ILE:CD1	1:M:250:ILE:HD13	2.51	0.41
1:M:369:MLY:HH22	1:M:369:MLY:HD3	1.79	0.41
1:M:502:GLU:C	1:M:504:MLY:N	2.77	0.41
1:M:612:GLN:NE2	1:M:627:GLY:H	2.15	0.41
1:M:786:ILE:O	1:M:789:ALA:CB	2.64	0.41
1:P:135:TYR:CD2	1:P:191:ARG:HD3	2.55	0.41
1:P:193:ILE:HD11	1:P:250:ILE:HD12	2.03	0.41
1:P:462:LEU:HD11	1:P:464:ILE:CD1	2.50	0.41
1:P:725:ARG:CZ	1:P:733:PRO:CB	2.83	0.41
1:P:795:ARG:C	3:R:35:ARG:NH2	2.79	0.41
1:P:805:ALA:O	1:P:809:ARG:HG3	2.20	0.41
1:P:831:TRP:NE1	2:Q:67:MET:CG	2.83	0.41
4:1:144:ALA:HB2	4:1:342:GLY:CA	2.51	0.41
4:1:324:THR:H	4:3:244:ASP:HA	1.86	0.41
4:3:32:PRO:HB2	4:3:34:ILE:CD1	2.51	0.41
4:5:32:PRO:HB2	4:5:34:ILE:CD1	2.51	0.41
4:7:171:LEU:HA	4:7:172:PRO:HD2	1.84	0.41
4:V:144:ALA:HB2	4:V:342:GLY:CA	2.51	0.41
4:V:226:GLU:HG3	4:V:255:PHE:CE2	2.55	0.41
4:X:256:ARG:HH11	4:X:256:ARG:HD2	1.79	0.41
4:Z:144:ALA:HB2	4:Z:342:GLY:CA	2.51	0.41
1:A:72:VAL:O	1:A:73:LYS:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:172:ASN:OD1	1:A:457:TYR:HA	2.21	0.41
1:A:193:ILE:CD1	1:A:250:ILE:HD13	2.51	0.41
1:A:223:ILE:C	1:A:225:ALA:N	2.77	0.41
1:A:303:LEU:O	1:A:304:LEU:HB2	2.21	0.41
1:A:335:ASP:O	1:A:338:ILE:HB	2.20	0.41
1:A:356:GLY:HA2	1:A:359:MET:HG3	2.02	0.41
1:A:502:GLU:C	1:A:504:MLY:N	2.77	0.41
1:A:551:MLY:C	4:V:47:MET:HA	2.48	0.41
1:A:711:PHE:O	1:A:714:ARG:NH2	2.54	0.41
1:A:724:TYR:HB3	1:A:727:LEU:CD1	2.48	0.41
1:A:725:ARG:HA	1:A:732:ILE:CG2	2.50	0.41
1:A:735:GLY:HA3	1:A:743:ALA:HA	2.01	0.41
3:C:95:ASP:OD1	3:C:139:TYR:HE1	2.04	0.41
1:D:38:VAL:HG13	1:D:39:PHE:N	2.35	0.41
1:D:47:PHE:HE1	1:D:78:PHE:CE1	2.39	0.41
1:D:110:TYR:C	1:D:112:ALA:N	2.79	0.41
1:D:136:ASN:O	1:D:138:MLY:N	2.54	0.41
1:D:195:TYR:CE2	1:D:199:ILE:HD13	2.55	0.41
1:D:309:PRO:C	1:D:311:ASP:N	2.79	0.41
1:D:322:VAL:HG12	1:D:325:ILE:HG13	2.03	0.41
1:D:335:ASP:O	1:D:338:ILE:HB	2.20	0.41
1:D:407:GLY:HA2	1:D:411:GLU:O	2.21	0.41
1:D:493:HIS:O	1:D:496:PHE:N	2.54	0.41
1:D:664:LEU:HD12	1:D:664:LEU:HA	1.53	0.41
2:E:150:TYR:HB3	2:E:151:LYS:HG3	2.03	0.41
1:G:84:MLY:CH2	1:G:719:ASP:C	2.88	0.41
1:G:322:VAL:HA	1:G:323:PRO:HD3	1.87	0.41
1:G:335:ASP:O	1:G:338:ILE:HB	2.20	0.41
1:G:356:GLY:HA2	1:G:359:MET:HG3	2.02	0.41
1:G:466:GLY:CA	1:G:484:ASN:HD21	2.32	0.41
1:G:538:GLU:CA	4:V:351:THR:N	2.68	0.41
1:G:553:MLY:HA	4:X:45:VAL:O	2.21	0.41
1:G:668:HIS:CD2	1:G:668:HIS:C	2.99	0.41
1:G:817:GLN:NE2	2:H:127:ARG:CG	2.81	0.41
1:G:823:PHE:CE1	2:H:160:GLY:HA2	2.52	0.41
1:G:842:LEU:N	1:G:842:LEU:CD1	2.82	0.41
2:H:144:VAL:HG12	2:H:153:ILE:HD11	1.75	0.41
1:J:25:ILE:HG23	1:J:29:ASN:HD22	1.85	0.41
1:J:135:TYR:CD2	1:J:191:ARG:HD3	2.55	0.41
1:J:193:ILE:HD11	1:J:250:ILE:HD12	2.03	0.41
1:J:229:LEU:HD12	1:J:229:LEU:HA	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:330:GLU:OE1	1:J:330:GLU:HA	2.20	0.41
1:J:356:GLY:HA2	1:J:359:MET:HG3	2.02	0.41
1:J:384:ASP:HA	1:J:394:SER:OG	2.20	0.41
1:J:493:HIS:O	1:J:496:PHE:N	2.54	0.41
1:J:642:LYS:HE2	4:W:344:SER:HA	1.56	0.41
1:J:829:TRP:CD2	2:K:87:LYS:NZ	2.76	0.41
1:J:831:TRP:CH2	2:K:34:ILE:HG21	2.56	0.41
1:J:836:PHE:CD2	2:K:160:GLY:N	2.86	0.41
1:M:51:THR:O	1:M:62:VAL:CG1	2.64	0.41
1:M:72:VAL:O	1:M:73:LYS:O	2.39	0.41
1:M:193:ILE:HD11	1:M:250:ILE:HD12	2.03	0.41
1:M:356:GLY:HA2	1:M:359:MET:HG3	2.02	0.41
1:M:410:ASN:HA	4:Z:334:GLU:HB3	1.29	0.41
1:M:541:MET:CG	4:Z:345:ILE:C	2.87	0.41
1:M:553:MLY:CD	4:1:43:VAL:CG2	2.69	0.41
1:M:642:LYS:HB2	4:Z:24:ASP:O	1.89	0.41
1:M:657:LEU:HD12	1:M:657:LEU:O	2.21	0.41
1:M:668:HIS:CD2	1:M:668:HIS:C	2.99	0.41
1:M:718:ALA:C	1:M:720:PHE:N	2.79	0.41
1:M:753:VAL:O	1:M:755:HIS:ND1	2.54	0.41
1:P:81:ASN:CG	1:P:96:HIS:HB2	2.45	0.41
1:P:176:LEU:N	1:P:176:LEU:CD1	2.74	0.41
1:P:322:VAL:HG12	1:P:325:ILE:HG13	2.03	0.41
1:P:548:THR:HB	4:2:48:GLY:CA	2.51	0.41
1:P:642:LYS:HB3	4:0:24:ASP:HB2	1.37	0.41
1:P:657:LEU:HD12	1:P:657:LEU:O	2.21	0.41
1:P:732:ILE:HG23	1:P:747:LEU:HD12	0.94	0.41
1:P:732:ILE:CG2	1:P:747:LEU:CD1	0.65	0.41
1:P:741:LYS:HG2	1:P:742:LYS:N	2.35	0.41
1:P:834:LEU:HD12	2:Q:51:PHE:CE1	2.45	0.41
3:R:95:ASP:OD1	3:R:139:TYR:HE1	2.04	0.41
4:0:32:PRO:HB2	4:0:34:ILE:CD1	2.51	0.41
4:1:227:MET:O	4:1:230:ALA:HB3	2.21	0.41
4:3:287:ILE:CB	4:5:203:THR:HG22	2.44	0.41
4:4:32:PRO:HB2	4:4:34:ILE:CD1	2.51	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
4:5:227:MET:O	4:5:230:ALA:HB3	2.21	0.41
4:7:227:MET:O	4:7:230:ALA:HB3	2.21	0.41
4:9:144:ALA:HB2	4:9:342:GLY:CA	2.51	0.41
4:9:227:MET:O	4:9:230:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:227:MET:O	4:V:230:ALA:HB3	2.21	0.41
4:V:256:ARG:HH11	4:V:256:ARG:HD2	1.78	0.41
4:W:32:PRO:HB2	4:W:34:ILE:CD1	2.51	0.41
4:W:144:ALA:HB2	4:W:342:GLY:CA	2.51	0.41
4:W:288:ASP:N	4:Y:202:THR:OG1	2.23	0.41
4:W:299:MET:HE2	4:W:299:MET:HB2	1.82	0.41
4:X:196:ARG:HH21	4:X:249:THR:HG23	1.85	0.41
4:X:226:GLU:HG3	4:X:255:PHE:CE2	2.55	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:Z:32:PRO:HB2	4:Z:34:ILE:CD1	2.51	0.41
4:Z:221:LEU:HA	4:Z:312:ARG:HG2	2.02	0.41
1:A:443:ILE:HG22	1:A:444:ARG:N	2.29	0.41
1:A:471:ASP:CB	1:A:573:GLY:O	2.68	0.41
1:A:541:MET:HG2	4:8:345:ILE:HG22	2.00	0.41
1:A:840:PRO:C	1:A:842:LEU:N	2.79	0.41
3:C:56:GLU:OE1	3:C:59:ASN:ND2	2.54	0.41
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.41
1:D:556:ASP:OD1	4:W:50:LYS:CG	2.69	0.41
1:D:568:PRO:HG3	1:D:578:HIS:N	2.36	0.41
1:D:625:THR:H	1:D:625:THR:HG22	1.48	0.41
1:D:747:LEU:HD22	1:D:782:MLY:HH11	1.96	0.41
1:G:485:GLU:OE2	1:G:584:TYR:N	2.50	0.41
1:G:528:MLY:HB2	1:G:529:PRO:HD2	2.03	0.41
1:G:599:ASN:CG	1:G:649:VAL:CB	2.80	0.41
1:G:635:GLY:C	4:V:341:ILE:HG21	2.45	0.41
1:G:657:LEU:HD12	1:G:657:LEU:O	2.21	0.41
1:G:768:MLY:HB2	1:G:772:LEU:HB2	1.71	0.41
1:G:769:ALA:HB1	1:G:770:GLY:CA	2.34	0.41
3:I:49:ILE:HD13	3:I:49:ILE:HG21	1.89	0.41
1:J:309:PRO:C	1:J:311:ASP:N	2.79	0.41
1:J:322:VAL:HB	1:J:325:ILE:HD12	2.03	0.41
1:J:635:GLY:C	4:W:341:ILE:HG21	2.45	0.41
1:J:818:TYR:HB3	2:K:90:GLY:CA	2.51	0.41
1:J:839:MLY:HH13	2:K:159:HIS:CD2	2.55	0.41
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.03	0.41
1:M:97:LEU:HA	1:M:97:LEU:HD12	1.68	0.41
1:M:110:TYR:C	1:M:112:ALA:N	2.79	0.41
1:M:144:ARG:HH11	1:M:160:ASP:CG	2.28	0.41
1:M:466:GLY:CA	1:M:484:ASN:HD21	2.32	0.41
1:M:528:MLY:HB2	1:M:529:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:676:ILE:HA	1:M:677:PRO:HD3	1.82	0.41
1:M:797:PHE:CE1	3:O:146:ILE:CA	2.94	0.41
2:N:141:PRO:HB3	2:N:142:PRO:CD	2.49	0.41
1:P:289:TYR:OH	1:P:315:VAL:O	2.27	0.41
1:P:449:LEU:HD12	1:P:449:LEU:HA	1.60	0.41
1:P:544:LYS:HE2	4:2:45:VAL:HG22	2.03	0.41
4:0:110:LEU:HB3	4:1:195:GLU:HG3	2.03	0.41
4:0:144:ALA:HB2	4:0:342:GLY:CA	2.51	0.41
4:1:369:ILE:HG23	4:1:370:VAL:N	2.35	0.41
4:2:226:GLU:HG3	4:2:255:PHE:CE2	2.56	0.41
4:3:219:VAL:HG22	4:3:258:PRO:CB	2.51	0.41
4:3:227:MET:O	4:3:230:ALA:HB3	2.21	0.41
4:4:144:ALA:HB2	4:4:342:GLY:CA	2.51	0.41
4:8:219:VAL:HG22	4:8:258:PRO:CB	2.51	0.41
4:9:288:ASP:OD1	4:W:204:ALA:HA	2.21	0.41
4:V:219:VAL:HG22	4:V:258:PRO:CB	2.51	0.41
4:X:144:ALA:HB2	4:X:342:GLY:CA	2.51	0.41
4:X:219:VAL:HG22	4:X:258:PRO:CB	2.51	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.40
1:A:499:GLU:OE2	1:A:766:PHE:HE2	2.00	0.40
3:C:48:LYS:HD3	3:C:48:LYS:HA	1.17	0.40
3:C:62:ALA:O	3:C:63:ILE:HG13	2.13	0.40
1:D:135:TYR:HD2	1:D:191:ARG:CG	2.33	0.40
1:D:361:TYR:C	1:D:363:ASN:N	2.79	0.40
1:D:635:GLY:C	4:9:341:ILE:HG21	2.45	0.40
1:D:657:LEU:O	1:D:657:LEU:HD12	2.21	0.40
1:G:25:ILE:HG23	1:G:29:ASN:HD22	1.85	0.40
1:G:110:TYR:O	1:G:113:TRP:N	2.42	0.40
1:G:303:LEU:O	1:G:304:LEU:HB2	2.21	0.40
1:G:789:ALA:HB1	3:I:81:GLN:CG	2.49	0.40
1:G:795:ARG:CZ	3:I:116:GLU:CB	2.96	0.40
2:H:113:LYS:O	2:H:147:ASN:HB2	2.20	0.40
1:J:668:HIS:CD2	1:J:668:HIS:C	2.99	0.40
1:J:718:ALA:C	1:J:720:PHE:N	2.79	0.40
1:J:776:GLU:O	1:J:780:ASP:N	2.45	0.40
1:M:210:GLN:C	1:M:211:SER:HG	2.19	0.40
1:M:308:ASN:HA	1:M:309:PRO:HD2	1.88	0.40
1:M:485:GLU:OE2	1:M:584:TYR:N	2.50	0.40
1:M:736:GLN:C	1:M:743:ALA:HB2	2.46	0.40
1:P:25:ILE:HG23	1:P:29:ASN:HD22	1.85	0.40
1:P:332:MET:H	1:P:332:MET:HG2	1.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:384:ASP:HA	1:P:394:SER:OG	2.20	0.40
1:P:493:HIS:O	1:P:496:PHE:N	2.54	0.40
1:P:792:ALA:HB1	3:R:42:THR:N	2.35	0.40
4:3:171:LEU:HA	4:3:172:PRO:HD2	1.84	0.40
4:3:287:ILE:CG2	4:5:204:ALA:N	2.68	0.40
4:4:227:MET:O	4:4:230:ALA:HB3	2.21	0.40
4:7:144:ALA:HB2	4:7:342:GLY:CA	2.51	0.40
4:8:299:MET:HE2	4:8:299:MET:HB2	1.82	0.40
4:X:221:LEU:HA	4:X:312:ARG:HG2	2.02	0.40
1:A:555:TYR:C	1:A:557:GLU:N	2.78	0.40
1:A:718:ALA:C	1:A:720:PHE:N	2.79	0.40
2:B:63:GLU:O	2:B:67:MET:HG3	2.22	0.40
1:D:48:VAL:CG2	1:D:49:MLY:N	2.84	0.40
1:D:60:VAL:O	1:D:72:VAL:N	2.51	0.40
1:D:193:ILE:HD11	1:D:250:ILE:HD12	2.03	0.40
1:D:201:ALA:O	1:D:202:SER:OG	2.36	0.40
1:D:213:LYS:HA	1:D:220:ASP:OD2	2.19	0.40
1:D:237:THR:CG2	1:D:238:VAL:N	2.85	0.40
1:D:408:VAL:HG22	1:D:636:LYS:HG2	1.52	0.40
1:D:723:ARG:HH21	1:D:779:ARG:CZ	2.34	0.40
2:E:140:PHE:HA	2:E:141:PRO:HD2	1.57	0.40
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.40
1:G:493:HIS:O	1:G:496:PHE:N	2.54	0.40
1:G:537:GLU:OE1	4:V:350:SER:HA	2.20	0.40
1:J:110:TYR:C	1:J:112:ALA:N	2.79	0.40
1:J:172:ASN:OD1	1:J:457:TYR:HA	2.21	0.40
1:J:612:GLN:NE2	1:J:627:GLY:H	2.14	0.40
1:J:822:SER:OG	2:K:91:ALA:N	2.54	0.40
2:K:113:LYS:O	2:K:147:ASN:HB2	2.20	0.40
1:M:123:CYS:HB2	1:M:158:ILE:HD13	2.00	0.40
1:M:136:ASN:O	1:M:138:MLY:N	2.54	0.40
1:M:544:LYS:N	4:Z:146:GLY:O	2.54	0.40
1:M:610:LEU:N	1:M:610:LEU:CD1	2.84	0.40
1:M:753:VAL:HG12	1:M:775:LEU:HD22	2.02	0.40
1:M:772:LEU:HD12	1:M:772:LEU:HA	1.83	0.40
3:O:95:ASP:OD1	3:O:139:TYR:HE1	2.04	0.40
1:P:48:VAL:CG2	1:P:49:MLY:N	2.84	0.40
1:P:303:LEU:O	1:P:304:LEU:HB2	2.21	0.40
1:P:361:TYR:C	1:P:363:ASN:N	2.79	0.40
1:P:544:LYS:N	4:0:146:GLY:O	2.55	0.40
1:P:610:LEU:N	1:P:610:LEU:CD1	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:772:LEU:HA	1:P:772:LEU:HD12	1.83	0.40
1:P:795:ARG:CD	3:R:35:ARG:HH12	2.34	0.40
1:P:821:ARG:NH2	2:Q:127:ARG:NE	2.69	0.40
4:1:171:LEU:HA	4:1:172:PRO:HD2	1.84	0.40
4:1:219:VAL:HG22	4:1:258:PRO:CB	2.52	0.40
4:3:144:ALA:HB2	4:3:342:GLY:CA	2.51	0.40
4:4:219:VAL:HG22	4:4:258:PRO:CB	2.51	0.40
4:9:120:THR:HG21	4:9:370:VAL:CG1	2.52	0.40
4:V:221:LEU:HA	4:V:312:ARG:HG2	2.02	0.40
4:W:196:ARG:HH21	4:W:249:THR:HG23	1.85	0.40
1:A:384:ASP:HA	1:A:394:SER:OG	2.21	0.40
1:A:464:ILE:HG22	1:A:465:ALA:H	1.87	0.40
1:A:508:ILE:HD13	1:A:508:ILE:HG21	1.88	0.40
1:A:538:GLU:OE1	4:8:355:MET:HE1	2.17	0.40
2:B:111:SER:OG	2:B:148:VAL:CA	2.69	0.40
1:D:94:MET:HE1	1:D:101:ALA:CB	2.50	0.40
1:D:348:MLY:HH12	1:D:348:MLY:HD2	1.82	0.40
1:D:771:LEU:C	1:D:773:GLY:N	2.75	0.40
3:F:56:GLU:OE1	3:F:59:ASN:ND2	2.54	0.40
1:G:14:ALA:HB3	1:G:15:PRO:CD	2.46	0.40
1:G:63:MLY:HD3	1:G:63:MLY:HH23	1.76	0.40
1:G:224:SER:C	1:G:227:PRO:HD2	2.47	0.40
1:G:320:ILE:O	1:G:320:ILE:HG22	2.18	0.40
1:G:407:GLY:HA2	1:G:411:GLU:O	2.21	0.40
1:G:724:TYR:HB3	1:G:727:LEU:CD1	2.48	0.40
2:H:150:TYR:HB3	2:H:151:LYS:HG3	2.03	0.40
1:J:303:LEU:O	1:J:304:LEU:HB2	2.21	0.40
1:J:361:TYR:C	1:J:363:ASN:N	2.79	0.40
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.40
1:J:840:PRO:C	1:J:842:LEU:N	2.79	0.40
2:K:141:PRO:CB	2:K:142:PRO:HD3	2.48	0.40
1:M:35:MLY:CH2	1:M:778:MET:CA	3.00	0.40
1:M:193:ILE:HD13	1:M:252:ILE:HD11	2.04	0.40
1:M:206:LYS:CE	1:M:217:THR:HG23	2.29	0.40
1:M:303:LEU:O	1:M:304:LEU:HB2	2.21	0.40
1:M:538:GLU:CA	4:Z:351:THR:N	2.68	0.40
1:M:821:ARG:NH2	2:N:127:ARG:NE	2.69	0.40
1:P:38:VAL:HG13	1:P:39:PHE:N	2.35	0.40
1:P:237:THR:CG2	1:P:238:VAL:N	2.84	0.40
1:P:806:MET:O	1:P:809:ARG:CB	2.67	0.40
2:Q:111:SER:OG	2:Q:148:VAL:CA	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:226:GLU:HG3	4:1:255:PHE:CE2	2.56	0.40
4:V:193:LEU:HD12	4:V:193:LEU:HA	1.96	0.40
4:Y:227:MET:O	4:Y:230:ALA:HB3	2.21	0.40
1:A:226:ASN:HB2	1:A:227:PRO:CD	2.47	0.40
1:A:757:GLN:CG	1:A:771:LEU:CG	2.86	0.40
1:D:64:THR:HG22	1:D:65:GLU:H	1.87	0.40
1:D:64:THR:OG1	1:D:68:GLU:HB3	2.22	0.40
1:D:193:ILE:CD1	1:D:250:ILE:HD13	2.51	0.40
1:D:261:ALA:O	1:D:451:THR:OG1	2.40	0.40
1:D:400:ALA:CB	1:D:606:THR:CG2	3.00	0.40
1:D:610:LEU:N	1:D:610:LEU:CD1	2.84	0.40
1:D:717:TYR:OH	1:D:760:PHE:HB3	2.21	0.40
2:E:149:ASP:O	2:E:150:TYR:CD1	2.75	0.40
1:G:87:MLY:HH12	1:G:87:MLY:HD3	1.62	0.40
1:G:144:ARG:HH11	1:G:160:ASP:CG	2.28	0.40
1:G:193:ILE:HD13	1:G:252:ILE:HD11	2.04	0.40
2:H:63:GLU:O	2:H:67:MET:HG3	2.22	0.40
1:J:60:VAL:O	1:J:72:VAL:N	2.51	0.40
1:J:89:GLU:HB3	1:J:153:PRO:HG3	2.03	0.40
1:J:193:ILE:CD1	1:J:250:ILE:HD13	2.51	0.40
1:J:202:SER:HB2	1:J:207:LYS:HZ1	1.86	0.40
3:L:56:GLU:OE1	3:L:59:ASN:ND2	2.54	0.40
1:M:519:LEU:HD12	1:M:519:LEU:H	1.83	0.40
1:M:533:PHE:O	1:M:537:GLU:N	2.49	0.40
1:M:717:TYR:OH	1:M:760:PHE:HB3	2.21	0.40
1:M:839:MLY:N	1:M:840:PRO:HD2	2.35	0.40
1:P:110:TYR:O	1:P:113:TRP:N	2.42	0.40
1:P:172:ASN:OD1	1:P:457:TYR:HA	2.21	0.40
1:P:279:LEU:CB	1:P:280:PRO:HD2	2.49	0.40
1:P:580:SER:O	1:P:581:LEU:HD12	2.22	0.40
1:P:793:ARG:CD	3:R:40:ASN:HD22	2.20	0.40
1:P:817:GLN:OE1	2:Q:127:ARG:CD	2.66	0.40
1:P:839:MLY:CH2	2:Q:158:THR:HG22	2.48	0.40
4:0:227:MET:O	4:0:230:ALA:HB3	2.21	0.40
4:0:243:PRO:CB	4:Y:291:LYS:CE	2.91	0.40
4:1:32:PRO:HB2	4:1:34:ILE:CD1	2.51	0.40
4:1:221:LEU:HA	4:1:312:ARG:HG2	2.02	0.40
4:7:219:VAL:HG22	4:7:258:PRO:CB	2.51	0.40
4:8:221:LEU:HA	4:8:312:ARG:HG2	2.02	0.40
4:V:32:PRO:HB2	4:V:34:ILE:CD1	2.51	0.40
4:X:120:THR:HG21	4:X:370:VAL:CG1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:219:VAL:HG22	4:Z:258:PRO:CB	2.52	0.40
1:A:194:GLN:HE21	1:A:194:GLN:HB3	1.43	0.40
1:A:308:ASN:HA	1:A:309:PRO:HD2	1.88	0.40
1:A:553:MLY:NZ	4:V:45:VAL:CA	2.58	0.40
1:A:556:ASP:OD1	4:V:50:LYS:CG	2.69	0.40
1:A:800:ARG:HB3	3:C:149:VAL:CB	2.49	0.40
1:D:303:LEU:O	1:D:304:LEU:HB2	2.21	0.40
1:D:322:VAL:HA	1:D:323:PRO:HD3	1.87	0.40
1:D:668:HIS:CD2	1:D:668:HIS:C	2.99	0.40
1:D:812:SER:O	1:D:816:ILE:HG13	2.21	0.40
1:D:840:PRO:C	1:D:842:LEU:H	2.29	0.40
3:F:95:ASP:OD1	3:F:139:TYR:HE1	2.04	0.40
1:G:229:LEU:HA	1:G:229:LEU:HD12	1.75	0.40
1:G:305:ILE:HG22	1:G:312:TYR:OH	2.22	0.40
1:G:464:ILE:HG22	1:G:465:ALA:H	1.87	0.40
1:G:502:GLU:C	1:G:504:MLY:N	2.78	0.40
1:G:580:SER:O	1:G:581:LEU:HD12	2.22	0.40
1:J:38:VAL:HG13	1:J:39:PHE:N	2.35	0.40
1:J:47:PHE:HE1	1:J:78:PHE:CE1	2.40	0.40
1:J:64:THR:HG22	1:J:65:GLU:H	1.87	0.40
1:J:224:SER:C	1:J:227:PRO:HD2	2.47	0.40
1:J:311:ASP:C	1:J:312:TYR:CD1	3.00	0.40
1:J:519:LEU:HD12	1:J:519:LEU:H	1.83	0.40
1:J:553:MLY:HH12	4:Y:45:VAL:HG11	2.00	0.40
1:M:92:ALA:O	1:M:714:ARG:HG2	2.22	0.40
1:M:172:ASN:OD1	1:M:457:TYR:HA	2.21	0.40
1:M:305:ILE:HG22	1:M:312:TYR:OH	2.21	0.40
1:M:309:PRO:C	1:M:311:ASP:N	2.79	0.40
1:M:384:ASP:HA	1:M:394:SER:OG	2.21	0.40
1:M:407:GLY:HA2	1:M:411:GLU:O	2.22	0.40
1:M:435:GLU:O	1:M:438:PHE:N	2.55	0.40
1:M:580:SER:O	1:M:581:LEU:HD12	2.22	0.40
1:M:803:TYR:O	1:M:807:VAL:HB	2.22	0.40
1:P:144:ARG:HH11	1:P:160:ASP:CG	2.28	0.40
1:P:224:SER:C	1:P:227:PRO:HD2	2.47	0.40
1:P:240:ASN:OD1	1:P:241:ASP:N	2.52	0.40
1:P:407:GLY:HA2	1:P:411:GLU:O	2.21	0.40
1:P:485:GLU:OE1	1:P:583:HIS:HB3	2.21	0.40
1:P:776:GLU:O	1:P:780:ASP:N	2.45	0.40
1:P:821:ARG:HH22	2:Q:127:ARG:CG	2.30	0.40
4:0:219:VAL:HG22	4:0:258:PRO:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:287:ILE:HB	4:2:203:THR:HG21	2.03	0.40
4:7:120:THR:HG21	4:7:370:VAL:CG1	2.52	0.40
4:7:290:ARG:HH22	4:9:202:THR:CG2	2.17	0.40
4:9:250:ILE:HG22	4:9:254:ARG:HB2	2.04	0.40
4:V:120:THR:HG21	4:V:370:VAL:CG1	2.52	0.40
4:X:285:CYS:O	4:Z:202:THR:HG22	2.17	0.40
4:Y:219:VAL:HG22	4:Y:258:PRO:CB	2.51	0.40
4:Z:227:MET:O	4:Z:230:ALA:HB3	2.21	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%)	651 (82%)	112 (14%)	26 (3%)	3	21
1	D	789/840 (94%)	651 (82%)	112 (14%)	26 (3%)	3	21
1	G	791/840 (94%)	652 (82%)	112 (14%)	27 (3%)	3	21
1	J	791/840 (94%)	652 (82%)	112 (14%)	27 (3%)	3	21
1	M	786/840 (94%)	649 (83%)	111 (14%)	26 (3%)	3	21
1	P	789/840 (94%)	649 (82%)	114 (14%)	26 (3%)	3	21
2	B	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
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	C	143/147 (97%)	133 (93%)	10 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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	0	370/375 (99%)	333 (90%)	31 (8%)	6 (2%)	7	38
4	1	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	2	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	3	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	5	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	7	370/375 (99%)	335 (90%)	29 (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%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	Z	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
All	All	11631/12042 (97%)	10138 (87%)	1203 (10%)	290 (2%)	6	26

All (290) 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
2	B	131	GLU
2	B	141	PRO
1	D	73	LYS
1	D	202	SER

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
2	Q	131	GLU
2	Q	141	PRO
4	0	246	GLN
4	1	246	GLN
4	2	246	GLN
4	3	246	GLN
4	4	246	GLN
4	5	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
2	B	130	PRO
2	B	147	ASN
2	B	151	LYS
2	B	161	GLU
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
2	E	161	GLU
1	G	11	GLY
1	G	21	GLU
1	G	219	GLU
1	G	517	MET
1	G	532	ILE
1	G	637	LYS
1	G	785	GLU

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Mol	Chain	Res	Type
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
2	Q	161	GLU
4	0	274	ILE
4	1	274	ILE
4	2	274	ILE
4	3	274	ILE
4	4	274	ILE
4	5	274	ILE
4	7	274	ILE
4	8	274	ILE
4	9	274	ILE
4	V	274	ILE
4	W	274	ILE
4	X	274	ILE
4	Y	274	ILE

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Mol	Chain	Res	Type
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
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
4	0	233	SER
4	1	233	SER
4	2	233	SER
4	3	233	SER
4	4	233	SER
4	5	233	SER
4	7	233	SER
4	8	233	SER
4	9	233	SER
4	V	233	SER
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

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Mol	Chain	Res	Type
1	D	435	GLU
1	D	817	GLN
1	G	269	LEU
1	G	435	GLU
1	G	817	GLN
1	J	269	LEU
1	J	435	GLU
1	J	817	GLN
1	M	435	GLU
1	M	817	GLN
1	P	435	GLU
1	P	817	GLN
4	0	2	GLU
4	0	253	GLU
4	1	2	GLU
4	2	2	GLU
4	3	2	GLU
4	4	2	GLU
4	5	2	GLU
4	7	2	GLU
4	7	253	GLU
4	8	2	GLU
4	8	253	GLU
4	9	2	GLU
4	V	2	GLU
4	W	2	GLU
4	W	253	GLU
4	X	2	GLU
4	Y	2	GLU
4	Y	253	GLU
4	Z	2	GLU
1	A	8	ALA
1	A	269	LEU
1	A	578	HIS
2	B	140	PHE
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

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Mol	Chain	Res	Type
2	H	140	PHE
1	J	8	ALA
1	J	578	HIS
2	K	140	PHE
1	M	8	ALA
1	M	269	LEU
1	M	556	ASP
1	M	578	HIS
1	P	8	ALA
1	P	269	LEU
1	P	578	HIS
2	Q	140	PHE
4	1	253	GLU
4	2	253	GLU
4	3	253	GLU
4	4	253	GLU
4	5	253	GLU
4	9	253	GLU
4	V	253	GLU
4	X	253	GLU
4	Z	253	GLU
1	A	79	SER
1	A	199	ILE
1	A	556	ASP
2	B	142	PRO
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
2	N	140	PHE
2	N	142	PRO
1	P	79	SER
1	P	199	ILE
1	P	556	ASP

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Mol	Chain	Res	Type
2	Q	142	PRO
1	A	840	PRO
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	0	242	LEU
4	1	242	LEU
4	2	242	LEU
4	3	242	LEU
4	4	242	LEU
4	5	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	D	287	ILE
1	G	287	ILE
1	M	287	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	J	672/672 (100%)	491 (73%)	181 (27%)	0 3
1	M	672/672 (100%)	490 (73%)	182 (27%)	0 3
1	P	672/672 (100%)	490 (73%)	182 (27%)	0 3
2	B	120/120 (100%)	120 (100%)	0	100 100
2	E	120/120 (100%)	120 (100%)	0	100 100
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	C	117/117 (100%)	113 (97%)	4 (3%)	32 54
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	0	315/318 (99%)	264 (84%)	51 (16%)	2 11
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%)	264 (84%)	51 (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	7	315/318 (99%)	265 (84%)	50 (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%)	265 (84%)	50 (16%)	2 11
4	W	315/318 (99%)	264 (84%)	51 (16%)	2 11
4	X	315/318 (99%)	264 (84%)	51 (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	9864/9906 (100%)	8039 (82%)	1825 (18%)	3 8

All (1825) 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
3	C	48	LYS
3	C	83	THR
3	C	85	GLU
3	C	96	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

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Mol	Chain	Res	Type
1	D	114	MET
1	D	117	THR
1	D	121	LEU
1	D	125	THR
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

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Mol	Chain	Res	Type
1	D	287	ILE
1	D	290	GLN
1	D	291	ILE
1	D	294	ASN
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

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Mol	Chain	Res	Type
1	D	495	MET
1	D	498	LEU
1	D	506	GLU
1	D	513	ILE
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

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Mol	Chain	Res	Type
1	D	716	LEU
1	D	722	GLN
1	D	723	ARG
1	D	727	LEU
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
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

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Mol	Chain	Res	Type
1	G	38	VAL
1	G	40	VAL
1	G	41	VAL
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

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Mol	Chain	Res	Type
1	G	191	ARG
1	G	193	ILE
1	G	194	GLN
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

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Mol	Chain	Res	Type
1	G	399	LYS
1	G	401	LEU
1	G	405	ARG
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

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Mol	Chain	Res	Type
1	G	675	ILE
1	G	676	ILE
1	G	686	MET
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

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Mol	Chain	Res	Type
1	G	838	ILE
1	G	842	LEU
1	G	843	LYS
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

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Mol	Chain	Res	Type
1	J	149	GLN
1	J	155	ILE
1	J	157	SER
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

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Mol	Chain	Res	Type
1	J	305	ILE
1	J	315	VAL
1	J	325	ILE
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	506	GLU
1	J	513	ILE
1	J	524	GLU
1	J	530	MET
1	J	532	ILE
1	J	534	SER

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Mol	Chain	Res	Type
1	J	537	GLU
1	J	549	SER
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

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Mol	Chain	Res	Type
1	J	752	ASP
1	J	753	VAL
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

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Mol	Chain	Res	Type
1	M	69	THR
1	M	70	LEU
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

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Mol	Chain	Res	Type
1	M	221	GLN
1	M	223	ILE
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

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Mol	Chain	Res	Type
1	M	449	LEU
1	M	452	LYS
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	499	GLU
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

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Mol	Chain	Res	Type
1	M	693	HIS
1	M	698	ASN
1	M	700	VAL
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

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Mol	Chain	Res	Type
3	O	85	GLU
3	O	96	LYS
1	P	7	MET
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

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Mol	Chain	Res	Type
1	P	167	LEU
1	P	169	ASP
1	P	170	ARG
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

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Mol	Chain	Res	Type
1	P	351	ILE
1	P	354	LEU
1	P	359	MET
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	499	GLU
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

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Mol	Chain	Res	Type
1	P	580	SER
1	P	593	SER
1	P	596	LEU
1	P	597	GLU
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

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Mol	Chain	Res	Type
1	P	774	LEU
1	P	785	GLU
1	P	787	ILE
1	P	793	ARG
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	0	16	LEU
4	0	33	SER
4	0	34	ILE
4	0	37	ARG
4	0	65	LEU
4	0	66	THR
4	0	67	LEU
4	0	72	GLU
4	0	80	ASP
4	0	99	GLU
4	0	100	GLU
4	0	109	PRO
4	0	145	SER
4	0	153	LEU
4	0	159	VAL
4	0	180	LEU
4	0	196	ARG
4	0	199	SER
4	0	201	VAL
4	0	206	ARG
4	0	221	LEU
4	0	223	PHE

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Mol	Chain	Res	Type
4	0	229	THR
4	0	238	LYS
4	0	239	SER
4	0	242	LEU
4	0	246	GLN
4	0	253	GLU
4	0	263	GLN
4	0	274	ILE
4	0	281	SER
4	0	283	MET
4	0	287	ILE
4	0	291	LYS
4	0	293	LEU
4	0	297	ASN
4	0	299	MET
4	0	305	MET
4	0	312	ARG
4	0	315	LYS
4	0	318	THR
4	0	320	LEU
4	0	327	ILE
4	0	334	GLU
4	0	349	LEU
4	0	350	SER
4	0	351	THR
4	0	353	GLN
4	0	354	GLN
4	0	361	GLU
4	0	368	SER
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	65	LEU
4	3	66	THR
4	3	67	LEU
4	3	72	GLU
4	3	80	ASP
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	7	16	LEU
4	7	33	SER
4	7	34	ILE
4	7	37	ARG
4	7	66	THR
4	7	67	LEU
4	7	72	GLU
4	7	80	ASP
4	7	99	GLU
4	7	100	GLU

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Mol	Chain	Res	Type
4	7	109	PRO
4	7	145	SER
4	7	153	LEU
4	7	159	VAL
4	7	180	LEU
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

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Mol	Chain	Res	Type
4	8	34	ILE
4	8	37	ARG
4	8	65	LEU
4	8	66	THR
4	8	67	LEU
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

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Mol	Chain	Res	Type
4	8	349	LEU
4	8	350	SER
4	8	351	THR
4	8	353	GLN
4	8	354	GLN
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

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Mol	Chain	Res	Type
4	9	297	ASN
4	9	299	MET
4	9	305	MET
4	9	312	ARG
4	9	315	LYS
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	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

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Mol	Chain	Res	Type
4	V	253	GLU
4	V	263	GLN
4	V	274	ILE
4	V	281	SER
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

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Mol	Chain	Res	Type
4	W	201	VAL
4	W	206	ARG
4	W	221	LEU
4	W	223	PHE
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	65	LEU
4	X	66	THR
4	X	67	LEU
4	X	72	GLU
4	X	80	ASP

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Mol	Chain	Res	Type
4	X	99	GLU
4	X	100	GLU
4	X	109	PRO
4	X	145	SER
4	X	153	LEU
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

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Mol	Chain	Res	Type
4	Y	16	LEU
4	Y	33	SER
4	Y	34	ILE
4	Y	37	ARG
4	Y	65	LEU
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

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Mol	Chain	Res	Type
4	Y	327	ILE
4	Y	334	GLU
4	Y	349	LEU
4	Y	350	SER
4	Y	351	THR
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

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Mol	Chain	Res	Type
4	Z	291	LYS
4	Z	293	LEU
4	Z	297	ASN
4	Z	299	MET
4	Z	305	MET
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 (282) 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	154	HIS
1	A	164	GLN
1	A	188	ASN
1	A	194	GLN
1	A	221	GLN
1	A	234	ASN
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

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Mol	Chain	Res	Type
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
1	A	698	ASN
1	A	762	HIS
1	A	791	GLN
1	A	825	ASN
2	B	159	HIS
3	C	52	ASN
3	C	59	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	234	ASN
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

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Mol	Chain	Res	Type
1	D	791	GLN
1	D	825	ASN
3	F	39	GLN
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
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	453	GLN
1	G	481	ASN
1	G	484	ASN
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	81	GLN
1	J	29	ASN
1	J	76	GLN
1	J	127	ASN
1	J	164	GLN
1	J	188	ASN
1	J	194	GLN

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Mol	Chain	Res	Type
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
1	J	481	ASN
1	J	484	ASN
1	J	488	GLN
1	J	552	ASN
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	52	ASN
3	L	59	ASN
3	L	81	GLN
1	M	29	ASN
1	M	76	GLN
1	M	127	ASN
1	M	164	GLN
1	M	188	ASN
1	M	194	GLN
1	M	221	GLN
1	M	234	ASN
1	M	253	HIS
1	M	290	GLN
1	M	360	HIS
1	M	368	GLN
1	M	424	ASN
1	M	453	GLN

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Mol	Chain	Res	Type
1	M	481	ASN
1	M	484	ASN
1	M	488	GLN
1	M	563	ASN
1	M	564	ASN
1	M	578	HIS
1	M	591	ASN
1	M	612	GLN
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	52	ASN
3	O	59	ASN
1	P	29	ASN
1	P	76	GLN
1	P	127	ASN
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	552	ASN
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

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Mol	Chain	Res	Type
1	P	698	ASN
1	P	791	GLN
1	P	825	ASN
2	Q	159	HIS
3	R	40	ASN
3	R	52	ASN
3	R	59	ASN
4	0	40	HIS
4	0	41	GLN
4	0	78	ASN
4	0	252	ASN
4	0	263	GLN
4	0	360	GLN
4	1	40	HIS
4	1	41	GLN
4	1	78	ASN
4	1	137	GLN
4	1	263	GLN
4	1	354	GLN
4	2	40	HIS
4	2	41	GLN
4	2	78	ASN
4	2	252	ASN
4	2	263	GLN
4	2	354	GLN
4	3	40	HIS
4	3	41	GLN
4	3	78	ASN
4	3	263	GLN
4	3	354	GLN
4	4	40	HIS
4	4	41	GLN
4	4	78	ASN
4	4	137	GLN
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	263	GLN
4	5	354	GLN

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

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Mol	Chain	Res	Type
4	Y	92	ASN
4	Y	252	ASN
4	Y	263	GLN
4	Y	354	GLN
4	Y	360	GLN
4	Z	40	HIS
4	Z	41	GLN
4	Z	111	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	M	348	1	9,10,11	0.76	0	6,11,13	0.47	0
1	MLY	G	504	1	9,10,11	0.88	0	6,11,13	0.22	0
1	MLY	G	59	1	9,10,11	0.82	0	6,11,13	0.48	0
1	MLY	G	768	1	9,10,11	0.73	0	6,11,13	0.42	0
1	MLY	A	49	1	9,10,11	0.96	1 (11%)	6,11,13	0.74	0
1	MLY	M	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	P	598	1	9,10,11	0.82	0	6,11,13	0.42	0
1	MLY	G	130	1	9,10,11	0.78	0	6,11,13	0.74	0
1	MLY	P	833	1	9,10,11	1.13	1 (11%)	6,11,13	0.31	0
1	MLY	D	613	1	9,10,11	0.57	0	6,11,13	0.61	0
1	MLY	D	353	1	9,10,11	0.85	0	6,11,13	0.81	0
1	MLY	P	49	1	9,10,11	1.02	1 (11%)	6,11,13	0.75	0
1	MLY	M	431	1	9,10,11	0.52	0	6,11,13	0.44	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	P	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	D	385	1	9,10,11	0.91	1 (11%)	6,11,13	0.46	0
1	MLY	A	436	1	9,10,11	0.96	1 (11%)	6,11,13	0.48	0
1	MLY	G	659	1	9,10,11	0.85	1 (11%)	6,11,13	0.59	0
1	MLY	A	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	G	353	1	9,10,11	0.86	0	6,11,13	0.81	0
1	MLY	M	84	1	9,10,11	0.51	0	6,11,13	0.81	0
1	MLY	M	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.81	0
1	MLY	M	827	1	9,10,11	0.69	0	6,11,13	0.48	0
1	MLY	G	782	1	9,10,11	0.80	0	6,11,13	0.36	0
1	MLY	P	613	1	9,10,11	0.57	0	6,11,13	0.62	0
1	MLY	M	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	D	551	1	9,10,11	0.53	0	6,11,13	0.20	0
1	MLY	M	613	1	9,10,11	0.56	0	6,11,13	0.61	0
1	MLY	J	598	1	9,10,11	0.81	0	6,11,13	0.41	0
1	MLY	P	296	1	9,10,11	0.64	0	6,11,13	0.35	0
1	MLY	J	130	1	9,10,11	0.75	0	6,11,13	0.73	0
1	MLY	G	553	1,4	9,10,11	0.64	0	6,11,13	0.55	0
1	MLY	D	659	1	9,10,11	0.83	1 (11%)	6,11,13	0.60	0
1	MLY	G	63	1	9,10,11	0.86	0	6,11,13	0.43	0
1	MLY	P	617	1	9,10,11	0.92	0	6,11,13	0.34	0
1	MLY	M	87	1	9,10,11	1.13	1 (11%)	6,11,13	0.43	0
1	MLY	D	782	1	9,10,11	0.80	0	6,11,13	0.35	0
1	MLY	D	30	1	9,10,11	0.93	0	6,11,13	0.31	0
1	MLY	A	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.44	0
1	MLY	G	367	1	9,10,11	0.62	0	6,11,13	0.38	0
1	MLY	M	296	1	9,10,11	0.66	0	6,11,13	0.35	0
1	MLY	M	833	1	9,10,11	1.16	2 (22%)	6,11,13	0.31	0
1	MLY	M	528	1	9,10,11	0.89	0	6,11,13	0.65	0
1	MLY	P	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	D	837	1	9,10,11	0.60	0	6,11,13	0.58	0
1	MLY	G	30	1	9,10,11	0.90	0	6,11,13	0.30	0
1	MLY	J	295	1	9,10,11	0.76	0	6,11,13	0.37	0
1	MLY	P	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	P	505	1	9,10,11	0.84	0	6,11,13	0.34	0
1	MLY	G	600	1	9,10,11	0.52	0	6,11,13	0.38	0
1	MLY	M	681	1	9,10,11	0.55	0	6,11,13	0.45	0
1	MLY	P	248	1	9,10,11	0.80	0	6,11,13	0.65	0
1	MLY	M	598	1	9,10,11	0.80	0	6,11,13	0.41	0
1	MLY	A	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	P	837	1	9,10,11	0.57	0	6,11,13	0.56	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	M	839	1	9,10,11	0.66	0	6,11,13	0.78	0
1	MLY	J	839	1	9,10,11	0.67	0	6,11,13	0.77	0
1	MLY	P	87	1	9,10,11	1.15	1 (11%)	6,11,13	0.43	0
1	MLY	P	551	1	9,10,11	0.53	0	6,11,13	0.20	0
1	MLY	M	63	1	9,10,11	0.88	0	6,11,13	0.45	0
1	MLY	P	827	1	9,10,11	0.70	0	6,11,13	0.48	0
1	MLY	G	272	1	9,10,11	0.87	1 (11%)	6,11,13	0.55	0
1	MLY	J	504	1	9,10,11	0.84	0	6,11,13	0.22	0
1	MLY	G	436	1	9,10,11	0.93	1 (11%)	6,11,13	0.47	0
1	MLY	J	837	1	9,10,11	0.59	0	6,11,13	0.56	0
1	MLY	M	553	1,4	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	A	551	1	9,10,11	0.51	0	6,11,13	0.18	0
1	MLY	G	431	1	9,10,11	0.52	0	6,11,13	0.46	0
1	MLY	P	764	1	9,10,11	0.80	0	6,11,13	0.38	0
1	MLY	A	84	1	9,10,11	0.51	0	6,11,13	0.80	0
1	MLY	A	369	1	9,10,11	0.72	0	6,11,13	0.46	0
1	MLY	D	827	1	9,10,11	0.66	0	6,11,13	0.47	0
1	MLY	M	295	1	9,10,11	0.77	0	6,11,13	0.37	0
1	MLY	A	768	1	9,10,11	0.77	0	6,11,13	0.41	0
1	MLY	M	49	1	9,10,11	1.00	1 (11%)	6,11,13	0.74	0
1	MLY	A	130	1	9,10,11	0.79	0	6,11,13	0.73	0
1	MLY	G	827	1	9,10,11	0.68	0	6,11,13	0.48	0
1	MLY	A	296	1	9,10,11	0.60	0	6,11,13	0.36	0
1	MLY	D	505	1	9,10,11	0.79	0	6,11,13	0.34	0
1	MLY	J	19	1	9,10,11	1.07	1 (11%)	6,11,13	0.58	0
1	MLY	J	827	1	9,10,11	0.72	0	6,11,13	0.47	0
1	MLY	D	130	1	9,10,11	0.80	0	6,11,13	0.72	0
1	MLY	A	600	1	9,10,11	0.52	0	6,11,13	0.39	0
1	MLY	D	107	1	9,10,11	0.52	0	6,11,13	0.33	0
1	MLY	M	764	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	M	837	1	9,10,11	0.58	0	6,11,13	0.55	0
1	MLY	A	295	1	9,10,11	0.77	0	6,11,13	0.34	0
1	MLY	P	553	1	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	A	782	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	J	764	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	J	768	1	9,10,11	0.77	0	6,11,13	0.42	0
1	MLY	M	505	1	9,10,11	0.85	1 (11%)	6,11,13	0.34	0
1	MLY	G	348	1	9,10,11	0.80	0	6,11,13	0.46	0
1	MLY	D	504	1	9,10,11	0.88	0	6,11,13	0.21	0
1	MLY	J	617	1	9,10,11	0.91	0	6,11,13	0.33	0
1	MLY	M	248	1	9,10,11	0.80	0	6,11,13	0.66	0
1	MLY	D	600	1	9,10,11	0.52	0	6,11,13	0.39	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	A	553	1,4	9,10,11	0.64	0	6,11,13	0.55	0
1	MLY	J	436	1	9,10,11	0.96	1 (11%)	6,11,13	0.47	0
1	MLY	J	505	1	9,10,11	0.85	1 (11%)	6,11,13	0.34	0
1	MLY	G	486	1	9,10,11	0.66	0	6,11,13	0.40	0
1	MLY	G	598	1	9,10,11	0.83	0	6,11,13	0.41	0
1	MLY	A	504	1	9,10,11	0.86	0	6,11,13	0.23	0
1	MLY	A	59	1	9,10,11	0.84	0	6,11,13	0.47	0
1	MLY	A	837	1	9,10,11	0.59	0	6,11,13	0.54	0
1	MLY	D	19	1	9,10,11	1.06	1 (11%)	6,11,13	0.57	0
1	MLY	D	764	1	9,10,11	0.82	0	6,11,13	0.35	0
1	MLY	J	296	1	9,10,11	0.65	0	6,11,13	0.36	0
1	MLY	P	839	1	9,10,11	0.67	0	6,11,13	0.78	0
1	MLY	A	272	1	9,10,11	0.90	1 (11%)	6,11,13	0.56	0
1	MLY	A	87	1	9,10,11	1.13	1 (11%)	6,11,13	0.41	0
1	MLY	J	353	1	9,10,11	0.86	0	6,11,13	0.79	0
1	MLY	D	617	1	9,10,11	0.93	1 (11%)	6,11,13	0.35	0
1	MLY	D	87	1	9,10,11	1.10	1 (11%)	6,11,13	0.44	0
1	MLY	P	19	1	9,10,11	1.06	1 (11%)	6,11,13	0.58	0
1	MLY	G	236	1	9,10,11	0.82	1 (11%)	6,11,13	0.47	0
1	MLY	P	107	1	9,10,11	0.49	0	6,11,13	0.34	0
1	MLY	G	84	1	9,10,11	0.49	0	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	M	617	1	9,10,11	0.90	0	6,11,13	0.34	0
1	MLY	P	369	1	9,10,11	0.71	0	6,11,13	0.46	0
1	MLY	D	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	P	295	1	9,10,11	0.77	0	6,11,13	0.36	0
1	MLY	J	272	1	9,10,11	0.90	1 (11%)	6,11,13	0.56	0
1	MLY	J	348	1	9,10,11	0.75	0	6,11,13	0.47	0
1	MLY	G	49	1	9,10,11	0.98	1 (11%)	6,11,13	0.74	0
1	MLY	G	613	1	9,10,11	0.59	0	6,11,13	0.61	0
1	MLY	M	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	D	59	1	9,10,11	0.84	0	6,11,13	0.47	0
1	MLY	J	59	1	9,10,11	0.85	0	6,11,13	0.47	0
1	MLY	P	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	A	348	1	9,10,11	0.81	0	6,11,13	0.48	0
1	MLY	D	431	1	9,10,11	0.53	0	6,11,13	0.46	0
1	MLY	G	296	1	9,10,11	0.61	0	6,11,13	0.36	0
1	MLY	J	553	1	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	J	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	M	272	1	9,10,11	0.90	1 (11%)	6,11,13	0.56	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	P	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.82	0
1	MLY	D	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.47	0
1	MLY	D	138	1	9,10,11	1.25	1 (11%)	6,11,13	0.84	0
1	MLY	D	833	1	9,10,11	1.12	1 (11%)	6,11,13	0.30	0
1	MLY	P	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.53	0
1	MLY	J	659	1	9,10,11	0.82	1 (11%)	6,11,13	0.58	0
1	MLY	M	59	1	9,10,11	0.85	0	6,11,13	0.47	0
1	MLY	A	528	1	9,10,11	0.88	0	6,11,13	0.66	0
1	MLY	G	55	1	9,10,11	0.74	0	6,11,13	0.81	0
1	MLY	G	833	1	9,10,11	1.13	1 (11%)	6,11,13	0.32	0
1	MLY	G	190	1	9,10,11	1.20	2 (22%)	6,11,13	0.52	0
1	MLY	G	528	1	9,10,11	0.90	0	6,11,13	0.66	0
1	MLY	P	782	1	9,10,11	0.80	0	6,11,13	0.38	0
1	MLY	D	839	1	9,10,11	0.65	0	6,11,13	0.80	0
1	MLY	G	505	1	9,10,11	0.83	0	6,11,13	0.35	0
1	MLY	M	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	G	35	1	9,10,11	0.74	0	6,11,13	0.39	0
1	MLY	M	19	1	9,10,11	1.05	1 (11%)	6,11,13	0.59	0
1	MLY	D	768	1	9,10,11	0.74	0	6,11,13	0.41	0
1	MLY	G	248	1	9,10,11	0.78	0	6,11,13	0.66	0
1	MLY	P	681	1	9,10,11	0.58	0	6,11,13	0.46	0
1	MLY	A	598	1	9,10,11	0.83	0	6,11,13	0.43	0
1	MLY	A	353	1	9,10,11	0.88	0	6,11,13	0.80	0
1	MLY	P	59	1	9,10,11	0.85	0	6,11,13	0.47	0
1	MLY	D	272	1	9,10,11	0.87	1 (11%)	6,11,13	0.58	0
1	MLY	D	348	1	9,10,11	0.78	0	6,11,13	0.47	0
1	MLY	P	504	1	9,10,11	0.83	0	6,11,13	0.22	0
1	MLY	J	248	1	9,10,11	0.80	0	6,11,13	0.66	0
1	MLY	D	369	1	9,10,11	0.70	0	6,11,13	0.45	0
1	MLY	A	839	1	9,10,11	0.65	0	6,11,13	0.82	0
1	MLY	J	369	1	9,10,11	0.71	0	6,11,13	0.45	0
1	MLY	M	35	1	9,10,11	0.73	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	M	504	1	9,10,11	0.84	0	6,11,13	0.22	0
1	MLY	M	768	1	9,10,11	0.76	0	6,11,13	0.42	0
1	MLY	P	431	1	9,10,11	0.50	0	6,11,13	0.45	0
1	MLY	A	367	1	9,10,11	0.60	0	6,11,13	0.36	0
1	MLY	D	35	1	9,10,11	0.73	0	6,11,13	0.37	0
1	MLY	M	436	1	9,10,11	0.97	1 (11%)	6,11,13	0.47	0
1	MLY	A	19	1	9,10,11	1.01	1 (11%)	6,11,13	0.57	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	A	764	1	9,10,11	0.81	0	6,11,13	0.36	0
1	MLY	P	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.48	0
1	MLY	D	367	1	9,10,11	0.57	0	6,11,13	0.39	0
1	MLY	A	107	1	9,10,11	0.47	0	6,11,13	0.33	0
1	MLY	J	190	1	9,10,11	1.22	2 (22%)	6,11,13	0.53	0
1	MLY	M	369	1	9,10,11	0.71	0	6,11,13	0.46	0
1	MLY	P	659	1	9,10,11	0.83	0	6,11,13	0.58	0
1	MLY	P	436	1	9,10,11	0.97	1 (11%)	6,11,13	0.48	0
1	MLY	P	353	1	9,10,11	0.86	0	6,11,13	0.79	0
1	MLY	P	84	1	9,10,11	0.51	0	6,11,13	0.80	0
1	MLY	A	827	1	9,10,11	0.68	0	6,11,13	0.45	0
1	MLY	P	768	1	9,10,11	0.78	0	6,11,13	0.41	0
1	MLY	G	385	1	9,10,11	0.93	1 (11%)	6,11,13	0.45	0
1	MLY	M	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	J	30	1	9,10,11	0.90	0	6,11,13	0.31	0
1	MLY	P	415	1	9,10,11	0.75	0	6,11,13	0.19	0
1	MLY	J	600	1	9,10,11	0.54	0	6,11,13	0.38	0
1	MLY	J	782	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	P	272	1	9,10,11	0.91	1 (11%)	6,11,13	0.55	0
1	MLY	J	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.74	0
1	MLY	M	415	1	9,10,11	0.76	0	6,11,13	0.19	0
1	MLY	D	436	1	9,10,11	1.00	1 (11%)	6,11,13	0.48	0
1	MLY	G	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	A	55	1	9,10,11	0.72	0	6,11,13	0.80	0
1	MLY	D	296	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	J	107	1	9,10,11	0.49	0	6,11,13	0.32	0
1	MLY	P	63	1	9,10,11	0.86	0	6,11,13	0.44	0
1	MLY	A	505	1	9,10,11	0.83	0	6,11,13	0.33	0
1	MLY	G	87	1	9,10,11	1.12	1 (11%)	6,11,13	0.43	0
1	MLY	J	486	1	9,10,11	0.66	0	6,11,13	0.41	0
1	MLY	M	782	1	9,10,11	0.81	0	6,11,13	0.38	0
1	MLY	A	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	M	130	1	9,10,11	0.77	0	6,11,13	0.73	0
1	MLY	D	598	1	9,10,11	0.84	0	6,11,13	0.42	0
1	MLY	D	55	1	9,10,11	0.72	0	6,11,13	0.81	0
1	MLY	A	248	1	9,10,11	0.81	0	6,11,13	0.65	0
1	MLY	J	833	1	9,10,11	1.14	1 (11%)	6,11,13	0.31	0
1	MLY	J	431	1	9,10,11	0.50	0	6,11,13	0.45	0
1	MLY	D	190	1	9,10,11	1.18	2 (22%)	6,11,13	0.54	0
1	MLY	M	236	1	9,10,11	0.85	1 (11%)	6,11,13	0.47	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	M	30	1	9,10,11	0.92	0	6,11,13	0.31	0
1	MLY	M	659	1	9,10,11	0.83	1 (11%)	6,11,13	0.58	0
1	MLY	M	486	1	9,10,11	0.65	0	6,11,13	0.40	0
1	MLY	P	348	1	9,10,11	0.78	0	6,11,13	0.47	0
1	MLY	D	553	1,4	9,10,11	0.66	0	6,11,13	0.55	0
1	MLY	G	839	1	9,10,11	0.68	0	6,11,13	0.80	0
1	MLY	J	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.82	0
1	MLY	G	415	1	9,10,11	0.75	0	6,11,13	0.19	0
1	MLY	J	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	J	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.48	0
1	MLY	M	55	1	9,10,11	0.74	0	6,11,13	0.80	0
1	MLY	J	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	G	19	1	9,10,11	1.04	1 (11%)	6,11,13	0.59	0
1	MLY	G	764	1	9,10,11	0.78	0	6,11,13	0.35	0
1	MLY	D	295	1	9,10,11	0.74	0	6,11,13	0.38	0
1	MLY	D	528	1	9,10,11	0.91	0	6,11,13	0.65	0
1	MLY	G	107	1	9,10,11	0.48	0	6,11,13	0.33	0
1	MLY	D	415	1	9,10,11	0.75	0	6,11,13	0.19	0
1	MLY	G	617	1	9,10,11	0.90	0	6,11,13	0.35	0
1	MLY	D	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.75	0
1	MLY	A	617	1	9,10,11	0.89	0	6,11,13	0.34	0
1	MLY	J	55	1	9,10,11	0.72	0	6,11,13	0.80	0
1	MLY	J	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	J	613	1	9,10,11	0.57	0	6,11,13	0.62	0
1	MLY	P	130	1	9,10,11	0.76	0	6,11,13	0.73	0
1	MLY	A	30	1	9,10,11	0.90	0	6,11,13	0.32	0
1	MLY	A	659	1	9,10,11	0.83	1 (11%)	6,11,13	0.60	0
1	MLY	G	369	1	9,10,11	0.71	0	6,11,13	0.46	0
1	MLY	D	681	1	9,10,11	0.55	0	6,11,13	0.46	0
1	MLY	J	681	1	9,10,11	0.56	0	6,11,13	0.46	0
1	MLY	A	613	1	9,10,11	0.58	0	6,11,13	0.61	0
1	MLY	J	87	1	9,10,11	1.13	1 (11%)	6,11,13	0.43	0
1	MLY	D	63	1	9,10,11	0.87	0	6,11,13	0.46	0
1	MLY	P	55	1	9,10,11	0.73	0	6,11,13	0.80	0
1	MLY	G	681	1	9,10,11	0.60	0	6,11,13	0.45	0
1	MLY	J	528	1	9,10,11	0.89	0	6,11,13	0.66	0
1	MLY	A	681	1	9,10,11	0.57	0	6,11,13	0.46	0
1	MLY	G	138	1	9,10,11	1.23	1 (11%)	6,11,13	0.82	0
1	MLY	M	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.53	0
1	MLY	G	295	1	9,10,11	0.76	0	6,11,13	0.36	0
1	MLY	G	837	1	9,10,11	0.59	0	6,11,13	0.52	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	MLY	P	30	1	9,10,11	0.91	0	6,11,13	0.31	0
1	MLY	A	190	1	9,10,11	1.22	2 (22%)	6,11,13	0.52	0
1	MLY	A	833	1	9,10,11	1.12	1 (11%)	6,11,13	0.31	0
1	MLY	A	63	1	9,10,11	0.88	0	6,11,13	0.45	0
1	MLY	D	84	1	9,10,11	0.51	0	6,11,13	0.81	0
1	MLY	D	248	1	9,10,11	0.81	0	6,11,13	0.66	0
1	MLY	P	486	1	9,10,11	0.66	0	6,11,13	0.40	0
1	MLY	P	528	1	9,10,11	0.89	0	6,11,13	0.66	0
1	MLY	J	63	1	9,10,11	0.87	0	6,11,13	0.44	0
1	MLY	M	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	J	35	1	9,10,11	0.73	0	6,11,13	0.39	0
1	MLY	A	138	1	9,10,11	1.20	1 (11%)	6,11,13	0.82	0
1	MLY	A	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.48	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	M	348	1	-	5/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	M	107	1	-	2/8/9/11	-
1	MLY	P	598	1	-	5/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	P	833	1	-	6/8/9/11	-
1	MLY	D	613	1	-	3/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	P	49	1	-	3/8/9/11	-
1	MLY	M	431	1	-	4/8/9/11	-
1	MLY	P	367	1	-	2/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	353	1	-	4/8/9/11	-
1	MLY	M	84	1	-	4/8/9/11	-
1	MLY	M	138	1	-	4/8/9/11	-
1	MLY	M	827	1	-	1/8/9/11	-
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	P	613	1	-	3/8/9/11	-
1	MLY	M	385	1	-	2/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	M	613	1	-	3/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	P	296	1	-	4/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-
1	MLY	G	553	1,4	-	4/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	P	617	1	-	2/8/9/11	-
1	MLY	M	87	1	-	2/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	D	30	1	-	3/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	M	296	1	-	4/8/9/11	-
1	MLY	M	833	1	-	6/8/9/11	-
1	MLY	M	528	1	-	4/8/9/11	-
1	MLY	P	385	1	-	2/8/9/11	-
1	MLY	D	837	1	-	6/8/9/11	-
1	MLY	G	30	1	-	3/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	P	35	1	-	3/8/9/11	-
1	MLY	P	505	1	-	5/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	M	681	1	-	4/8/9/11	-
1	MLY	P	248	1	-	6/8/9/11	-
1	MLY	M	598	1	-	5/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	P	837	1	-	6/8/9/11	-
1	MLY	M	839	1	-	3/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	P	87	1	-	2/8/9/11	-
1	MLY	P	551	1	-	3/8/9/11	-
1	MLY	M	63	1	-	4/8/9/11	-
1	MLY	P	827	1	-	1/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	J	837	1	-	6/8/9/11	-
1	MLY	M	553	1,4	-	4/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	P	764	1	-	2/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-
1	MLY	D	827	1	-	1/8/9/11	-
1	MLY	M	295	1	-	2/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	M	49	1	-	3/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	G	827	1	-	1/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	J	827	1	-	1/8/9/11	-
1	MLY	D	130	1	-	5/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	M	764	1	-	2/8/9/11	-
1	MLY	M	837	1	-	6/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	P	553	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-
1	MLY	M	505	1	-	5/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	J	617	1	-	2/8/9/11	-
1	MLY	M	248	1	-	6/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	A	553	1,4	-	4/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	A	837	1	-	6/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	P	839	1	-	3/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	D	617	1	-	2/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	P	19	1	-	4/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	P	107	1	-	2/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	M	617	1	-	2/8/9/11	-
1	MLY	P	369	1	-	2/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	295	1	-	2/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	G	613	1	-	3/8/9/11	-
1	MLY	M	551	1	-	3/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	P	600	1	-	3/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	J	553	1	-	4/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	M	272	1	-	3/8/9/11	-
1	MLY	P	138	1	-	4/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-
1	MLY	P	190	1	-	4/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-
1	MLY	M	59	1	-	3/8/9/11	-
1	MLY	A	528	1	-	4/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	G	190	1	-	4/8/9/11	-
1	MLY	G	528	1	-	4/8/9/11	-
1	MLY	P	782	1	-	6/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-
1	MLY	M	367	1	-	2/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	M	19	1	-	4/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	P	681	1	-	4/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	A	353	1	-	4/8/9/11	-
1	MLY	P	59	1	-	3/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	P	504	1	-	4/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	M	35	1	-	3/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	M	504	1	-	4/8/9/11	-
1	MLY	M	768	1	-	4/8/9/11	-
1	MLY	P	431	1	-	4/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	M	436	1	-	4/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	P	236	1	-	3/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	J	190	1	-	4/8/9/11	-
1	MLY	M	369	1	-	2/8/9/11	-
1	MLY	P	659	1	-	3/8/9/11	-
1	MLY	P	436	1	-	4/8/9/11	-
1	MLY	P	353	1	-	4/8/9/11	-
1	MLY	P	84	1	-	4/8/9/11	-
1	MLY	A	827	1	-	1/8/9/11	-
1	MLY	P	768	1	-	4/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	M	353	1	-	4/8/9/11	-
1	MLY	J	30	1	-	3/8/9/11	-
1	MLY	P	415	1	-	3/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	P	272	1	-	3/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	M	415	1	-	3/8/9/11	-
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	G	551	1	-	3/8/9/11	-
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	P	63	1	-	4/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	M	782	1	-	6/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	M	130	1	-	5/8/9/11	-
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	D	190	1	-	4/8/9/11	-
1	MLY	M	236	1	-	3/8/9/11	-
1	MLY	M	30	1	-	3/8/9/11	-
1	MLY	M	659	1	-	3/8/9/11	-
1	MLY	M	486	1	-	2/8/9/11	-
1	MLY	P	348	1	-	5/8/9/11	-
1	MLY	D	553	1,4	-	5/8/9/11	-
1	MLY	G	839	1	-	3/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	M	55	1	-	6/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-
1	MLY	G	19	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	528	1	-	4/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-
1	MLY	G	617	1	-	2/8/9/11	-
1	MLY	D	49	1	-	3/8/9/11	-
1	MLY	A	617	1	-	2/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	J	613	1	-	3/8/9/11	-
1	MLY	P	130	1	-	5/8/9/11	-
1	MLY	A	30	1	-	3/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	A	613	1	-	3/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	P	55	1	-	6/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	J	528	1	-	4/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	M	190	1	-	4/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	G	837	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	30	1	-	3/8/9/11	-
1	MLY	A	190	1	-	4/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	P	486	1	-	2/8/9/11	-
1	MLY	P	528	1	-	4/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	M	600	1	-	3/8/9/11	-
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-

All (75) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.32	1.48	1.53
1	G	138	MLY	CB-CA	-3.28	1.48	1.53
1	P	138	MLY	CB-CA	-3.21	1.48	1.53
1	J	138	MLY	CB-CA	-3.19	1.48	1.53
1	M	138	MLY	CB-CA	-3.19	1.48	1.53
1	A	138	MLY	CB-CA	-3.17	1.48	1.53
1	P	87	MLY	CB-CA	-2.82	1.49	1.53
1	J	19	MLY	CB-CA	-2.78	1.49	1.53
1	P	19	MLY	CB-CA	-2.78	1.49	1.53
1	G	87	MLY	CB-CA	-2.77	1.49	1.53
1	A	87	MLY	CB-CA	-2.76	1.49	1.53
1	D	19	MLY	CB-CA	-2.75	1.49	1.53
1	M	19	MLY	CB-CA	-2.75	1.49	1.53
1	J	87	MLY	CB-CA	-2.75	1.49	1.53
1	M	87	MLY	CB-CA	-2.73	1.49	1.53
1	D	87	MLY	CB-CA	-2.72	1.49	1.53
1	D	436	MLY	CB-CA	-2.71	1.49	1.53
1	G	19	MLY	CB-CA	-2.68	1.49	1.53
1	M	436	MLY	CB-CA	-2.62	1.49	1.53
1	P	436	MLY	CB-CA	-2.62	1.49	1.53
1	A	19	MLY	CB-CA	-2.61	1.49	1.53
1	P	49	MLY	CB-CA	-2.60	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	436	MLY	CB-CA	-2.59	1.49	1.53
1	A	436	MLY	CB-CA	-2.56	1.49	1.53
1	G	436	MLY	CB-CA	-2.50	1.49	1.53
1	M	49	MLY	CB-CA	-2.50	1.49	1.53
1	J	49	MLY	CB-CA	-2.48	1.49	1.53
1	D	49	MLY	CB-CA	-2.45	1.49	1.53
1	P	272	MLY	CB-CA	-2.44	1.49	1.53
1	G	49	MLY	CB-CA	-2.42	1.49	1.53
1	J	272	MLY	CB-CA	-2.41	1.49	1.53
1	M	272	MLY	CB-CA	-2.41	1.49	1.53
1	A	272	MLY	CB-CA	-2.40	1.49	1.53
1	A	49	MLY	CB-CA	-2.34	1.50	1.53
1	J	190	MLY	CB-CA	-2.32	1.50	1.53
1	G	272	MLY	CB-CA	-2.31	1.50	1.53
1	M	236	MLY	CA-N	-2.30	1.41	1.48
1	D	272	MLY	CB-CA	-2.28	1.50	1.53
1	A	236	MLY	CA-N	-2.28	1.41	1.48
1	D	236	MLY	CA-N	-2.28	1.41	1.48
1	M	190	MLY	CB-CA	-2.28	1.50	1.53
1	P	236	MLY	CA-N	-2.27	1.41	1.48
1	J	236	MLY	CA-N	-2.27	1.41	1.48
1	P	190	MLY	CB-CA	-2.26	1.50	1.53
1	G	236	MLY	CA-N	-2.24	1.41	1.48
1	A	190	MLY	CB-CA	-2.22	1.50	1.53
1	M	385	MLY	CB-CA	-2.22	1.50	1.53
1	G	190	MLY	CB-CA	-2.21	1.50	1.53
1	M	833	MLY	CB-CA	-2.21	1.50	1.53
1	J	385	MLY	CB-CA	-2.21	1.50	1.53
1	P	385	MLY	CB-CA	-2.20	1.50	1.53
1	J	833	MLY	CB-CA	-2.17	1.50	1.53
1	D	833	MLY	CA-N	-2.17	1.42	1.48
1	G	833	MLY	CA-N	-2.16	1.42	1.48
1	P	833	MLY	CB-CA	-2.16	1.50	1.53
1	D	190	MLY	CB-CA	-2.15	1.50	1.53
1	A	385	MLY	CB-CA	-2.14	1.50	1.53
1	A	190	MLY	CA-N	-2.12	1.42	1.48
1	G	385	MLY	CB-CA	-2.12	1.50	1.53
1	D	385	MLY	CB-CA	-2.10	1.50	1.53
1	M	190	MLY	CA-N	-2.09	1.42	1.48
1	G	190	MLY	CA-N	-2.08	1.42	1.48
1	J	190	MLY	CA-N	-2.07	1.42	1.48
1	D	617	MLY	CB-CA	-2.07	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	190	MLY	CA-N	-2.07	1.42	1.48
1	D	190	MLY	CA-N	-2.07	1.42	1.48
1	G	659	MLY	CA-N	-2.06	1.42	1.48
1	A	833	MLY	CA-N	-2.05	1.42	1.48
1	M	505	MLY	CB-CA	-2.04	1.50	1.53
1	M	833	MLY	CA-N	-2.03	1.42	1.48
1	A	659	MLY	CA-N	-2.03	1.42	1.48
1	M	659	MLY	CA-N	-2.03	1.42	1.48
1	D	659	MLY	CA-N	-2.01	1.42	1.48
1	J	659	MLY	CA-N	-2.01	1.42	1.48
1	J	505	MLY	CB-CA	-2.01	1.50	1.53

There are no bond angle outliers.

There are no chirality outliers.

All (967) 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	N-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
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

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Mol	Chain	Res	Type	Atoms
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	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	553	MLY	O-C-CA-CB
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
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

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Mol	Chain	Res	Type	Atoms
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
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

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Mol	Chain	Res	Type	Atoms
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
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

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Mol	Chain	Res	Type	Atoms
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	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
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	55	MLY	CD-CE-NZ-CH2
1	J	84	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
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	55	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
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

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Mol	Chain	Res	Type	Atoms
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	M	659	MLY	CG-CD-CE-NZ
1	P	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	G	659	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	J	659	MLY	CG-CD-CE-NZ
1	M	35	MLY	CG-CD-CE-NZ
1	P	35	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
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

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Mol	Chain	Res	Type	Atoms
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	55	MLY	CD-CE-NZ-CH2
1	G	59	MLY	CD-CE-NZ-CH1
1	G	59	MLY	CD-CE-NZ-CH2
1	G	63	MLY	CD-CE-NZ-CH1
1	G	84	MLY	CD-CE-NZ-CH2
1	G	130	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
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	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
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

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Mol	Chain	Res	Type	Atoms
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
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

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Mol	Chain	Res	Type	Atoms
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	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	A	87	MLY	CG-CD-CE-NZ
1	G	87	MLY	CG-CD-CE-NZ
1	J	87	MLY	CG-CD-CE-NZ
1	M	87	MLY	CG-CD-CE-NZ
1	P	87	MLY	CG-CD-CE-NZ
1	D	87	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
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	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	138	MLY	CG-CD-CE-NZ
1	D	138	MLY	CG-CD-CE-NZ
1	G	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	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	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	369	MLY	CD-CE-NZ-CH2
1	G	504	MLY	CD-CE-NZ-CH1
1	G	504	MLY	CD-CE-NZ-CH2
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

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Mol	Chain	Res	Type	Atoms
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	768	MLY	CD-CE-NZ-CH2
1	D	84	MLY	CG-CD-CE-NZ
1	G	84	MLY	CG-CD-CE-NZ
1	A	504	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	504	MLY	CG-CD-CE-NZ
1	J	681	MLY	CG-CD-CE-NZ
1	M	681	MLY	CG-CD-CE-NZ
1	P	504	MLY	CG-CD-CE-NZ
1	M	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	A	272	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	G	272	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
1	P	272	MLY	CD-CE-NZ-CH2
1	P	504	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

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Mol	Chain	Res	Type	Atoms
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	55	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	J	551	MLY	CG-CD-CE-NZ
1	M	551	MLY	CG-CD-CE-NZ
1	P	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
1	D	107	MLY	CD-CE-NZ-CH1
1	G	19	MLY	CD-CE-NZ-CH2
1	J	19	MLY	CD-CE-NZ-CH2
1	M	19	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	P	19	MLY	CD-CE-NZ-CH2
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	A	505	MLY	CE-CD-CG-CB
1	D	49	MLY	CE-CD-CG-CB
1	J	49	MLY	CE-CD-CG-CB
1	P	49	MLY	CE-CD-CG-CB
1	A	49	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	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	P	272	MLY	CE-CD-CG-CB
1	P	296	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
1	D	296	MLY	CE-CD-CG-CB
1	G	30	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	M	30	MLY	CE-CD-CG-CB
1	M	296	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	P	30	MLY	CE-CD-CG-CB
1	P	353	MLY	CE-CD-CG-CB
1	A	353	MLY	CE-CD-CG-CB
1	J	30	MLY	CE-CD-CG-CB
1	M	353	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH1
1	A	839	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH1
1	M	107	MLY	CD-CE-NZ-CH1
1	M	839	MLY	CD-CE-NZ-CH1
1	P	107	MLY	CD-CE-NZ-CH1
1	A	190	MLY	CE-CD-CG-CB
1	D	190	MLY	CE-CD-CG-CB
1	D	353	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB
1	M	190	MLY	CE-CD-CG-CB
1	G	190	MLY	CE-CD-CG-CB
1	P	190	MLY	CE-CD-CG-CB
1	G	353	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	P	681	MLY	CE-CD-CG-CB
1	M	681	MLY	CE-CD-CG-CB
1	J	190	MLY	CG-CD-CE-NZ
1	M	190	MLY	CG-CD-CE-NZ
1	P	190	MLY	CG-CD-CE-NZ
1	D	190	MLY	CG-CD-CE-NZ
1	G	190	MLY	CG-CD-CE-NZ
1	D	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	J	768	MLY	CE-CD-CG-CB
1	P	768	MLY	CE-CD-CG-CB
1	A	190	MLY	CG-CD-CE-NZ
1	A	369	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

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

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

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Mol	Chain	Res	Type	Atoms
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	A	528	MLY	CG-CD-CE-NZ
1	M	528	MLY	CG-CD-CE-NZ
1	P	528	MLY	CG-CD-CE-NZ
1	G	248	MLY	CG-CD-CE-NZ
1	J	248	MLY	CG-CD-CE-NZ
1	M	248	MLY	CG-CD-CE-NZ
1	A	248	MLY	CG-CD-CE-NZ
1	D	248	MLY	CG-CD-CE-NZ
1	P	248	MLY	CG-CD-CE-NZ
1	M	431	MLY	CE-CD-CG-CB
1	A	431	MLY	CE-CD-CG-CB
1	G	431	MLY	CE-CD-CG-CB
1	J	431	MLY	CE-CD-CG-CB
1	P	431	MLY	CE-CD-CG-CB
1	D	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	D	248	MLY	CE-CD-CG-CB
1	G	248	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB
1	M	248	MLY	CE-CD-CG-CB
1	P	248	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	P	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
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

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

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Mol	Chain	Res	Type	Atoms
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	D	296	MLY	CA-CB-CG-CD
1	G	138	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	P	138	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	M	296	MLY	CA-CB-CG-CD
1	P	296	MLY	CA-CB-CG-CD
1	G	296	MLY	CA-CB-CG-CD
1	A	35	MLY	N-CA-CB-CG
1	A	63	MLY	N-CA-CB-CG
1	A	130	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

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Mol	Chain	Res	Type	Atoms
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	348	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
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

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

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

There are no ring outliers.

189 monomers are involved in 833 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	M	348	MLY	5	0
1	G	504	MLY	1	0
1	G	59	MLY	3	0
1	G	768	MLY	7	0
1	A	49	MLY	3	0
1	M	107	MLY	3	0
1	P	598	MLY	1	0
1	P	49	MLY	4	0
1	A	436	MLY	2	0
1	G	659	MLY	2	0
1	M	84	MLY	37	0
1	M	138	MLY	2	0
1	G	782	MLY	1	0
1	D	551	MLY	1	0
1	J	598	MLY	1	0
1	P	296	MLY	3	0
1	G	553	MLY	27	0
1	D	659	MLY	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	63	MLY	4	0
1	P	617	MLY	1	0
1	M	87	MLY	3	0
1	D	782	MLY	87	0
1	D	30	MLY	1	0
1	M	296	MLY	3	0
1	M	528	MLY	3	0
1	D	837	MLY	1	0
1	G	30	MLY	1	0
1	J	295	MLY	6	0
1	G	600	MLY	1	0
1	P	248	MLY	2	0
1	M	598	MLY	1	0
1	A	486	MLY	3	0
1	P	837	MLY	1	0
1	M	839	MLY	11	0
1	J	839	MLY	8	0
1	P	87	MLY	3	0
1	M	63	MLY	3	0
1	G	272	MLY	1	0
1	J	504	MLY	1	0
1	G	436	MLY	2	0
1	J	837	MLY	1	0
1	M	553	MLY	27	0
1	A	551	MLY	2	0
1	P	764	MLY	9	0
1	A	369	MLY	1	0
1	D	827	MLY	2	0
1	M	295	MLY	6	0
1	A	768	MLY	18	0
1	M	49	MLY	3	0
1	A	296	MLY	2	0
1	A	600	MLY	1	0
1	D	107	MLY	3	0
1	M	764	MLY	7	0
1	M	837	MLY	1	0
1	A	295	MLY	6	0
1	P	553	MLY	2	0
1	A	782	MLY	7	0
1	J	764	MLY	3	0
1	J	768	MLY	4	0
1	M	505	MLY	12	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	348	MLY	4	0
1	D	504	MLY	1	0
1	J	617	MLY	1	0
1	M	248	MLY	2	0
1	D	600	MLY	1	0
1	A	553	MLY	19	0
1	J	436	MLY	2	0
1	J	505	MLY	9	0
1	G	486	MLY	3	0
1	G	598	MLY	1	0
1	A	504	MLY	3	0
1	A	59	MLY	2	0
1	A	837	MLY	4	0
1	D	764	MLY	9	0
1	J	296	MLY	3	0
1	P	839	MLY	12	0
1	A	272	MLY	1	0
1	A	87	MLY	3	0
1	D	617	MLY	1	0
1	D	87	MLY	3	0
1	P	107	MLY	3	0
1	G	84	MLY	19	0
1	J	415	MLY	1	0
1	M	617	MLY	1	0
1	D	486	MLY	3	0
1	P	295	MLY	6	0
1	J	272	MLY	1	0
1	J	348	MLY	5	0
1	G	49	MLY	3	0
1	M	551	MLY	3	0
1	D	59	MLY	2	0
1	J	59	MLY	2	0
1	P	600	MLY	1	0
1	A	348	MLY	5	0
1	G	296	MLY	2	0
1	J	553	MLY	11	0
1	M	272	MLY	1	0
1	P	138	MLY	2	0
1	D	138	MLY	2	0
1	P	190	MLY	2	0
1	J	659	MLY	2	0
1	M	59	MLY	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	528	MLY	2	0
1	G	55	MLY	1	0
1	G	190	MLY	2	0
1	G	528	MLY	3	0
1	P	782	MLY	2	0
1	D	839	MLY	4	0
1	G	505	MLY	1	0
1	D	768	MLY	11	0
1	G	248	MLY	2	0
1	A	598	MLY	1	0
1	P	59	MLY	2	0
1	D	272	MLY	1	0
1	D	348	MLY	6	0
1	P	504	MLY	1	0
1	J	248	MLY	2	0
1	A	839	MLY	8	0
1	M	35	MLY	12	0
1	A	415	MLY	1	0
1	M	504	MLY	1	0
1	M	768	MLY	1	0
1	M	436	MLY	2	0
1	A	764	MLY	10	0
1	A	107	MLY	3	0
1	J	190	MLY	2	0
1	M	369	MLY	1	0
1	P	659	MLY	1	0
1	P	436	MLY	2	0
1	P	84	MLY	5	0
1	J	30	MLY	1	0
1	P	415	MLY	1	0
1	J	600	MLY	1	0
1	J	782	MLY	1	0
1	P	272	MLY	1	0
1	J	49	MLY	3	0
1	M	415	MLY	1	0
1	D	436	MLY	2	0
1	A	55	MLY	1	0
1	D	296	MLY	3	0
1	J	107	MLY	3	0
1	P	63	MLY	3	0
1	A	505	MLY	35	0
1	G	87	MLY	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	486	MLY	3	0
1	M	782	MLY	9	0
1	D	598	MLY	1	0
1	D	55	MLY	1	0
1	A	248	MLY	2	0
1	D	190	MLY	2	0
1	M	30	MLY	1	0
1	M	659	MLY	2	0
1	M	486	MLY	3	0
1	P	348	MLY	5	0
1	D	553	MLY	16	0
1	G	839	MLY	4	0
1	J	138	MLY	2	0
1	G	415	MLY	1	0
1	J	84	MLY	23	0
1	M	55	MLY	1	0
1	G	764	MLY	21	0
1	D	295	MLY	6	0
1	D	528	MLY	3	0
1	G	107	MLY	3	0
1	D	415	MLY	1	0
1	G	617	MLY	1	0
1	D	49	MLY	4	0
1	A	617	MLY	1	0
1	J	55	MLY	1	0
1	A	30	MLY	1	0
1	A	659	MLY	2	0
1	G	369	MLY	1	0
1	J	87	MLY	3	0
1	D	63	MLY	3	0
1	P	55	MLY	1	0
1	J	528	MLY	3	0
1	G	138	MLY	2	0
1	M	190	MLY	2	0
1	G	295	MLY	6	0
1	G	837	MLY	1	0
1	P	30	MLY	1	0
1	A	190	MLY	2	0
1	A	63	MLY	3	0
1	D	248	MLY	2	0
1	P	486	MLY	3	0
1	P	528	MLY	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	63	MLY	4	0
1	M	600	MLY	1	0
1	A	138	MLY	2	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	7
1	P	6
1	D	4
1	A	4
1	J	3
1	G	3
3	C	1
3	F	1
3	I	1
3	L	1
3	O	1
3	R	1
2	B	1
2	E	1
2	H	1
2	K	1
2	N	1
2	Q	1

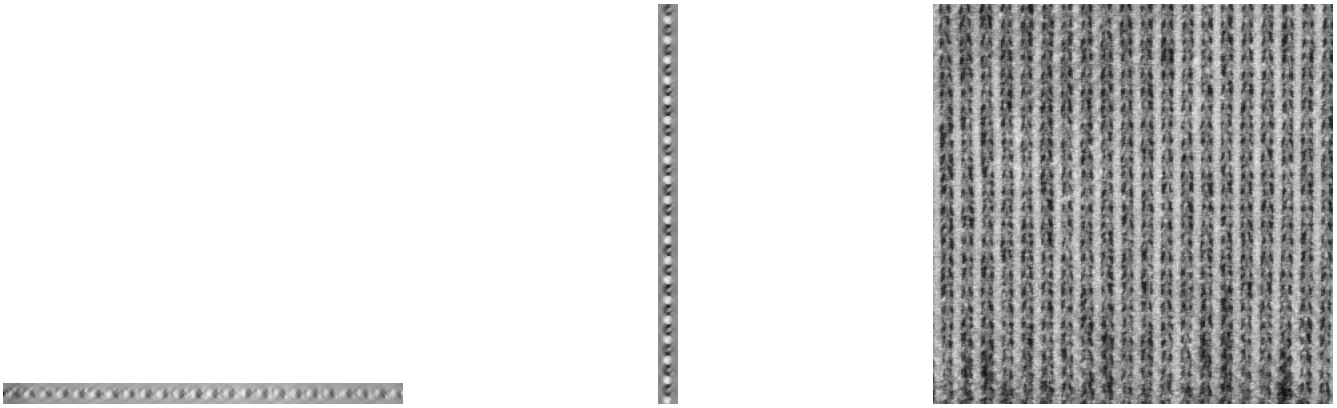
All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	769:ALA	C	770:GLY	N	5.54
1	D	769:ALA	C	770:GLY	N	5.18
1	G	769:ALA	C	770:GLY	N	4.67
1	A	709:LYS	C	710:GLY	N	3.39
1	D	709:LYS	C	710:GLY	N	3.25
1	A	769:ALA	C	770:GLY	N	2.99
1	M	769:ALA	C	770:GLY	N	2.76
1	P	769:ALA	C	770:GLY	N	2.75
1	M	786:ILE	C	787:ILE	N	2.62
1	C	4:LYS	C	5:ALA	N	2.61
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	785:GLU	C	786:ILE	N	2.38
1	M	806:MET	C	807:VAL	N	2.02
1	P	806:MET	C	807:VAL	N	2.02
1	P	786:ILE	C	787:ILE	N	1.89
1	P	785:GLU	C	786:ILE	N	1.81
1	B	140:PHE	C	141:PRO	N	1.09
1	E	140:PHE	C	141:PRO	N	1.09
1	H	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	M	709:LYS	C	710:GLY	N	1.08
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	P	637:LYS	C	638:GLY	N	1.06
1	M	637:LYS	C	638:GLY	N	1.05
1	D	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
1	A	649:VAL	C	650:SER	N	1.02
1	G	649:VAL	C	650:SER	N	1.02

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.

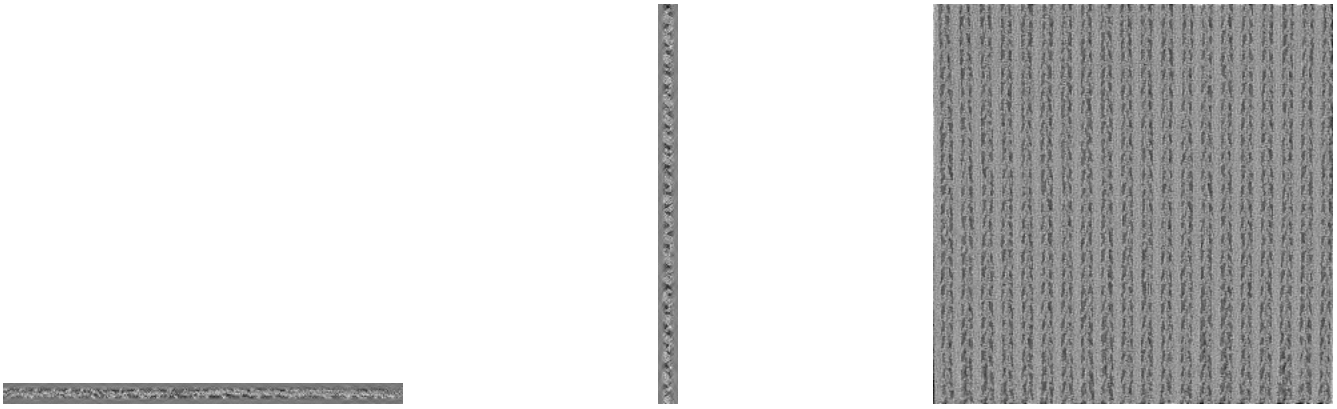
6.1 Orthogonal projections



X Y Z

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

6.2 Central slices



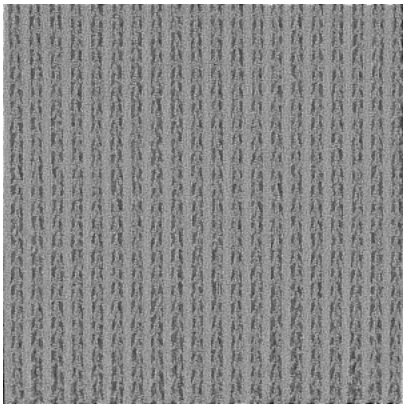
X Index: 300 Y Index: 300 Z Index: 15

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

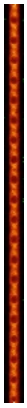


Z Index: 15

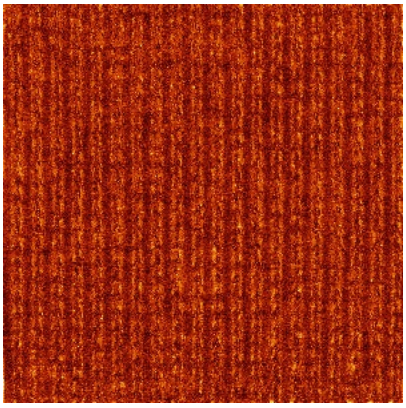
The images above show the largest variance slices of the tomogram in three orthogonal directions.

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

X



Y



Z

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

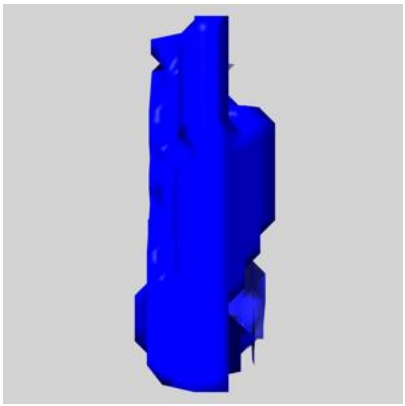
6.5 Mask visualisation

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

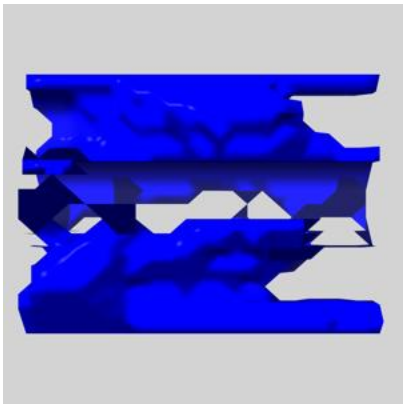
A mask typically either:

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

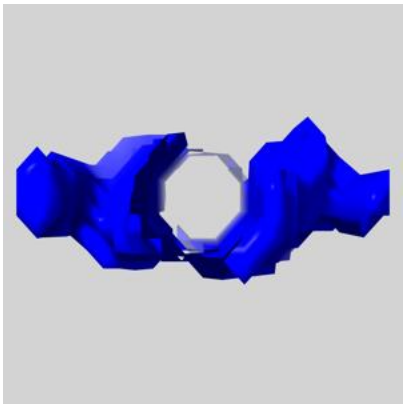
6.5.1 emd_1001_msk_25.map



X

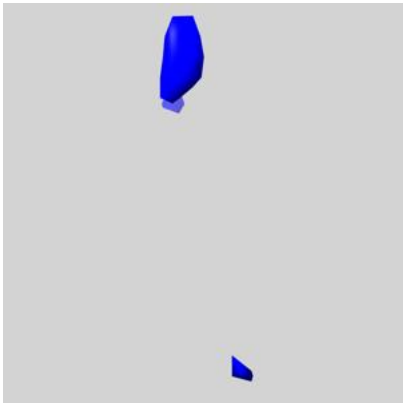


Y

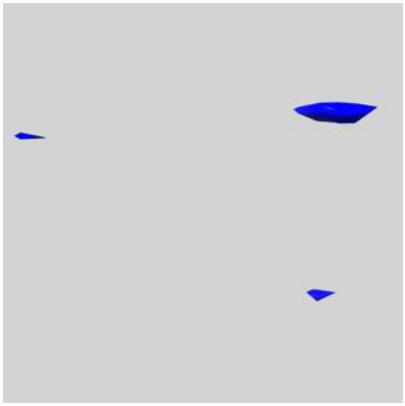


Z

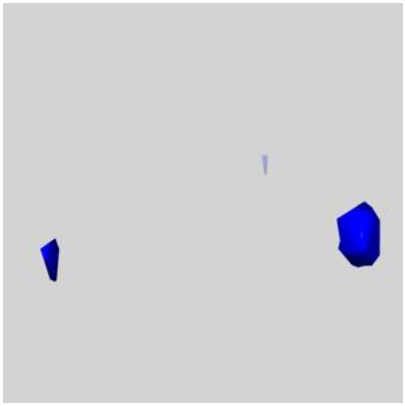
6.5.2 emd_1001_msk_24.map



X

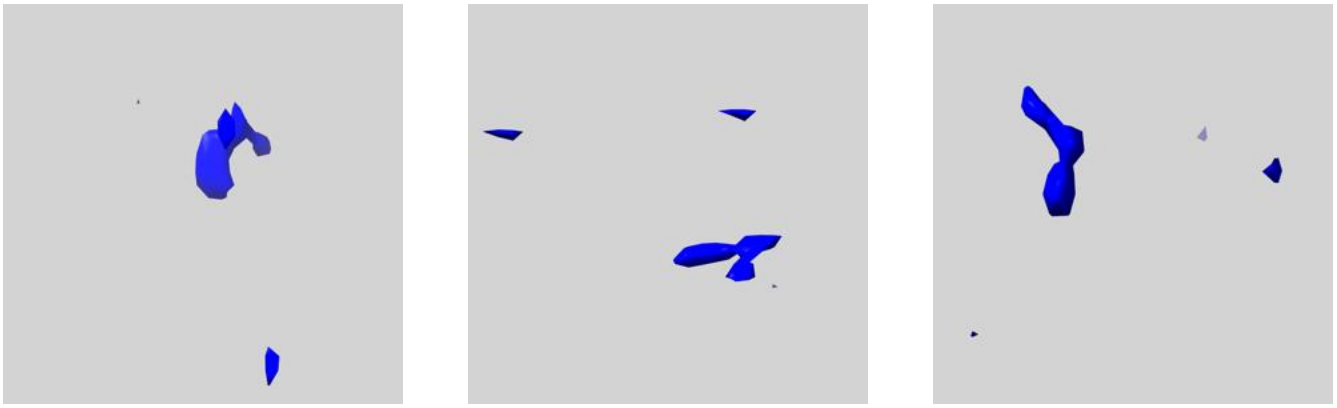


Y



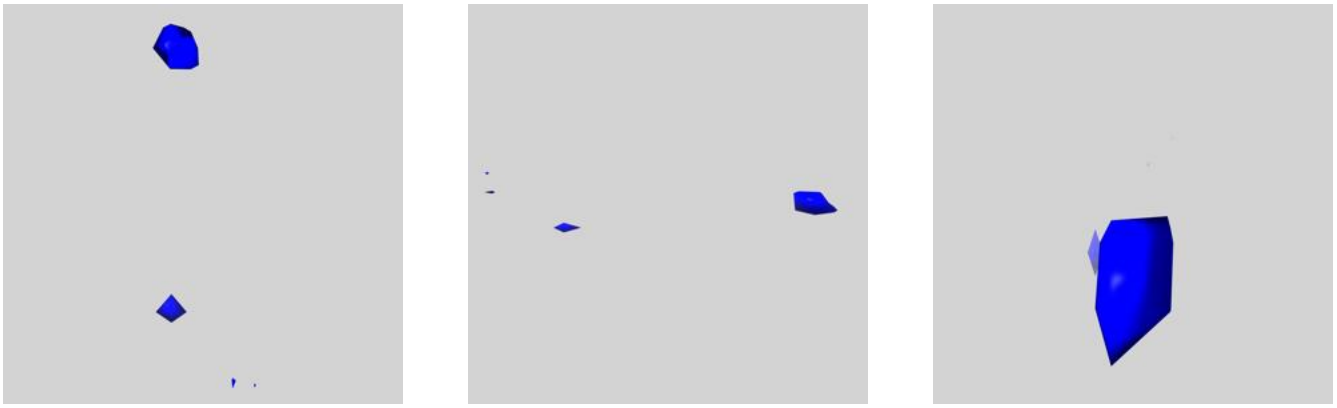
Z

6.5.3 emd_1001_msk_23.map



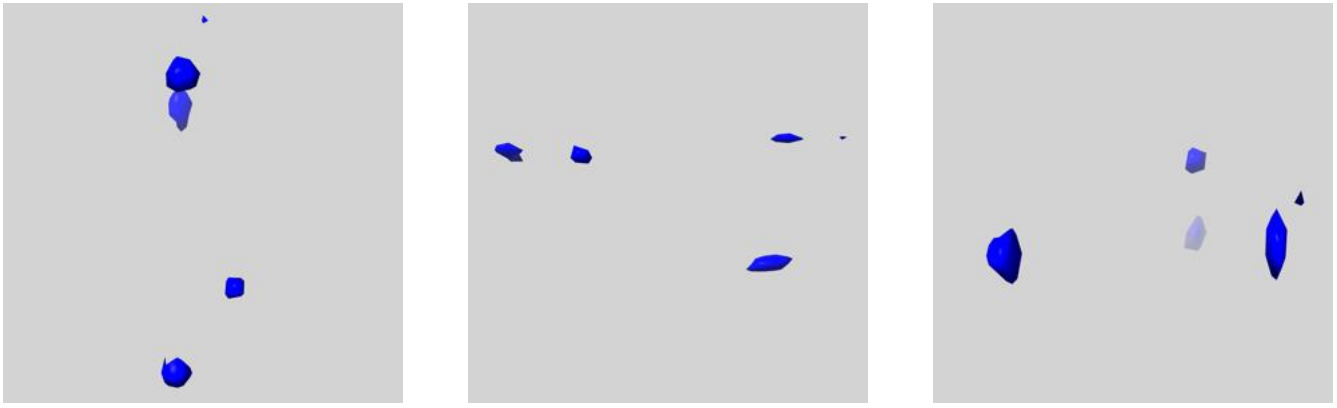
X Y Z

6.5.4 emd_1001_msk_22.map



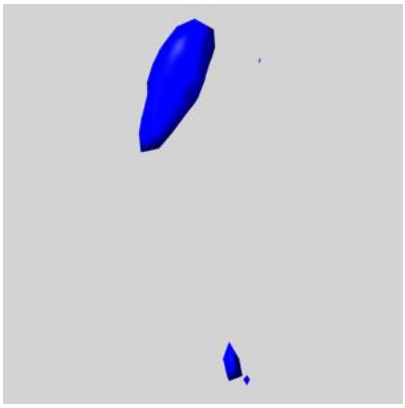
X Y Z

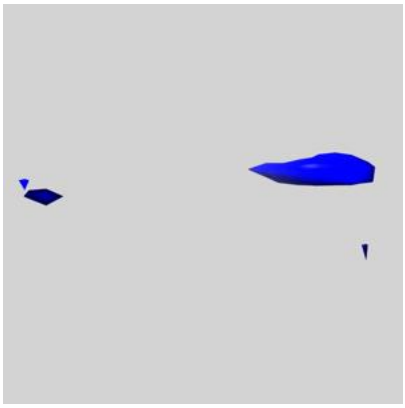
6.5.5 emd_1001_msk_21.map

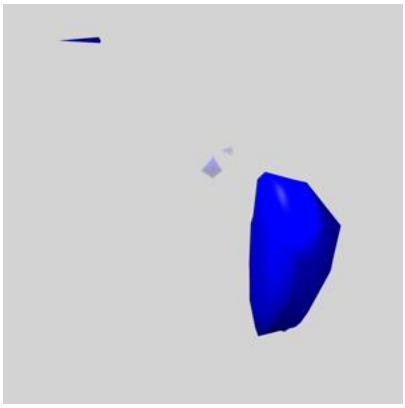


X Y Z

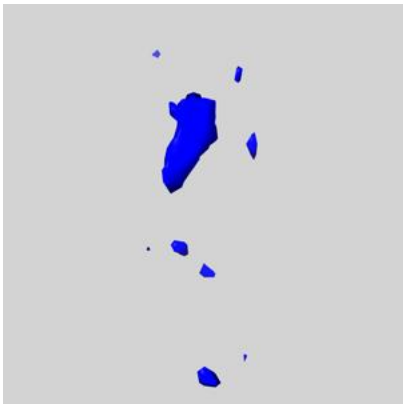
6.5.6 emd_1001_msk_20.map

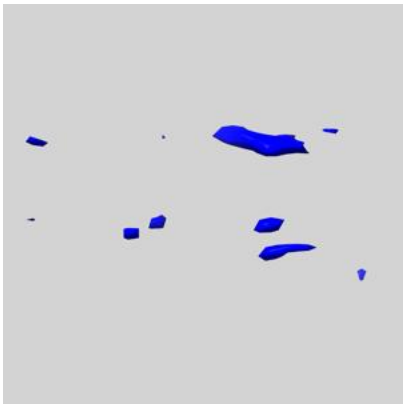

X


Y


Z

6.5.7 emd_1001_msk_19.map


X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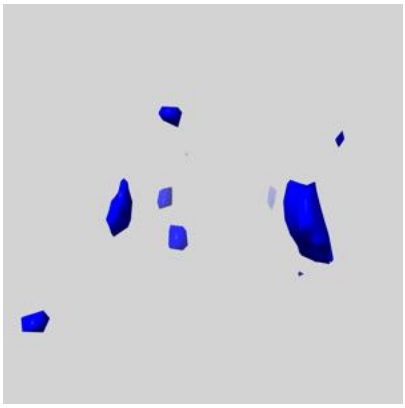
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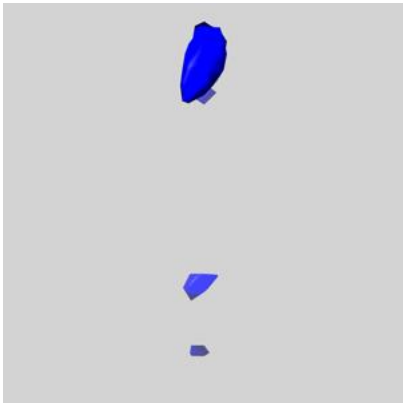
6.5.8 emd_1001_msk_18.map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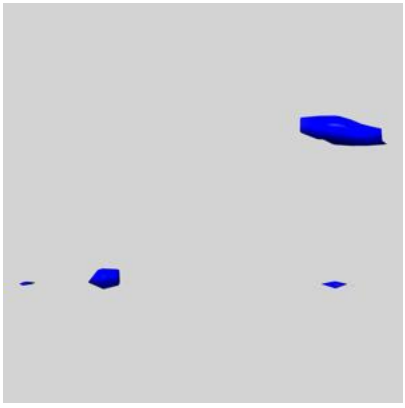
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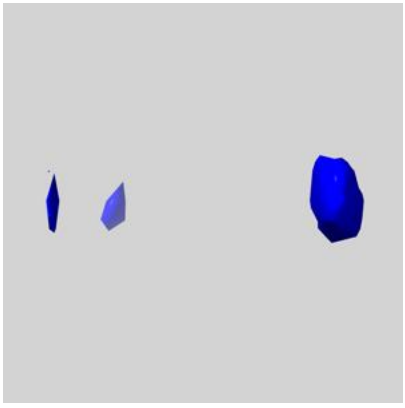
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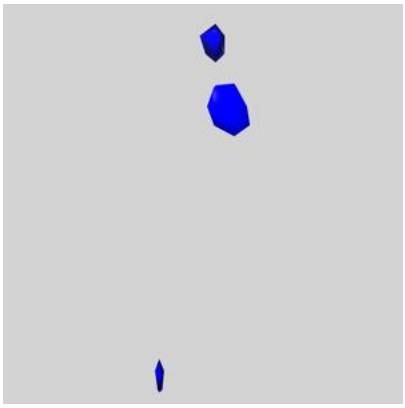
6.5.9 emd_1001_msk_17.map



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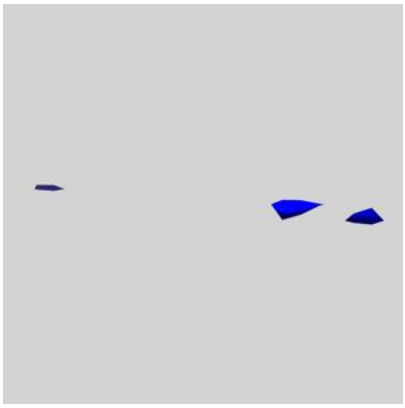

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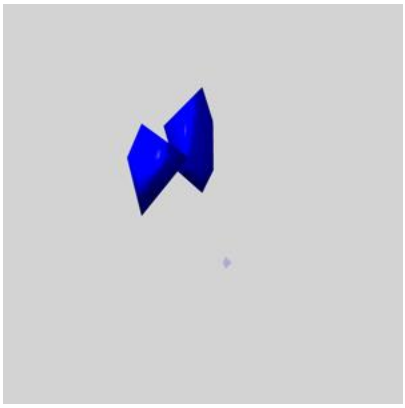

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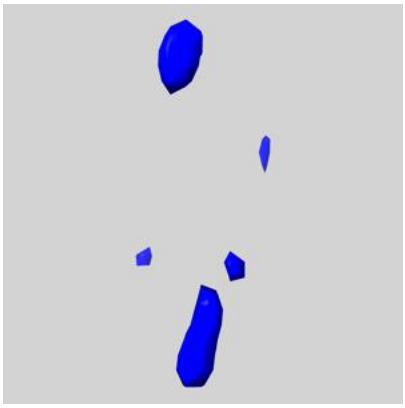
6.5.10 emd_1001_msk_16.map



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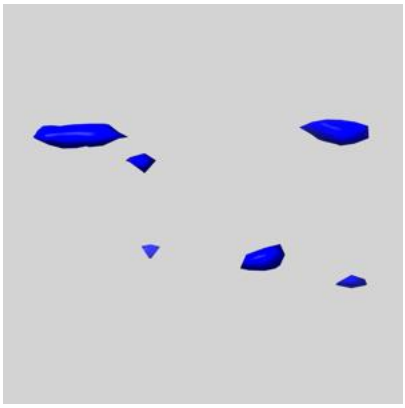

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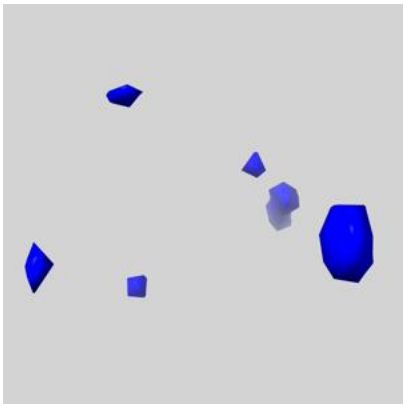

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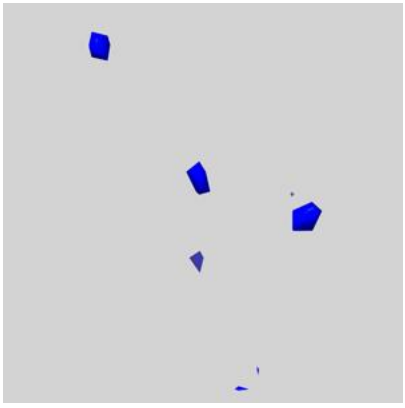
6.5.11 emd_1001_msk_15.map



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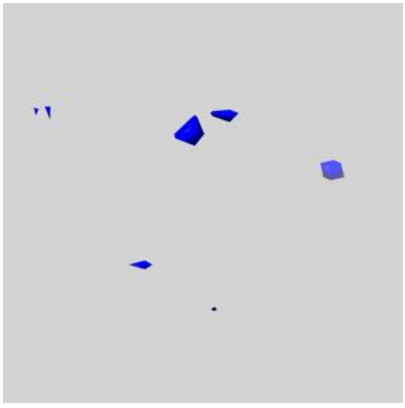

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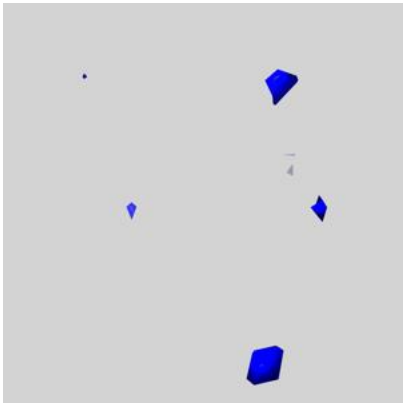

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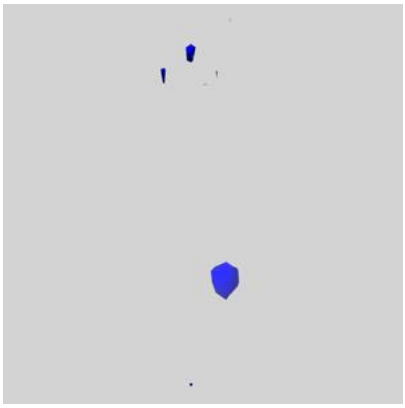
6.5.12 emd_1001_msk_14.map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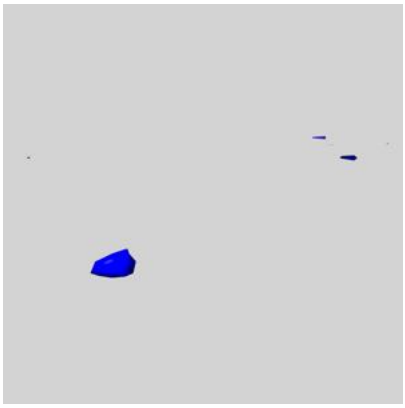
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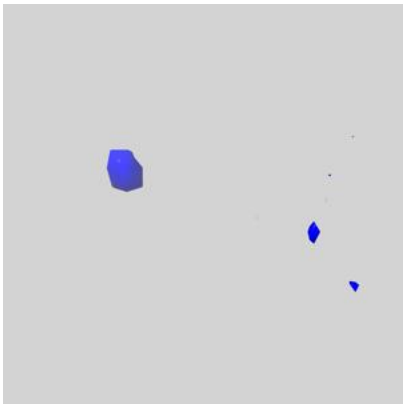
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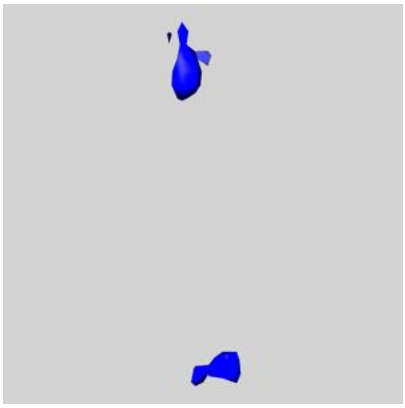
6.5.13 emd_1001_msk_13.map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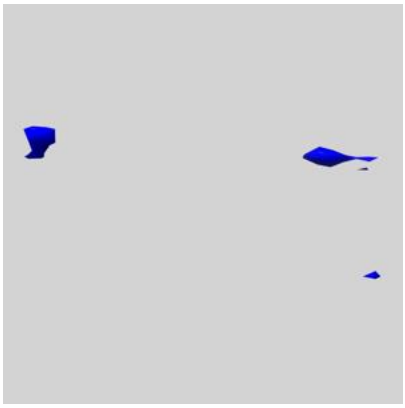
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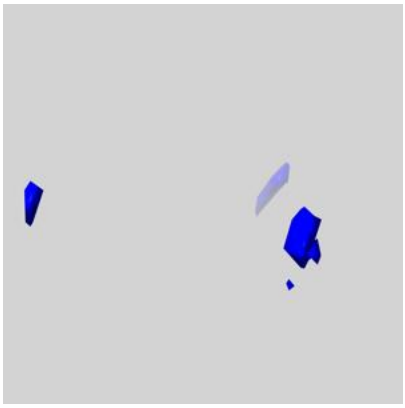
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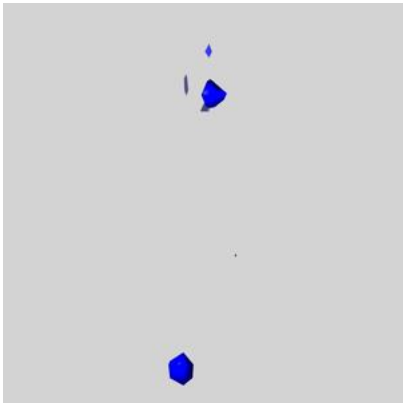
6.5.14 emd_1001_msk_12.map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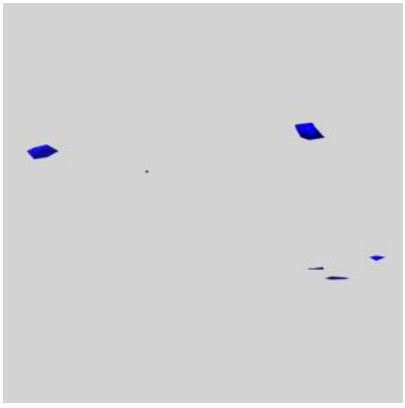
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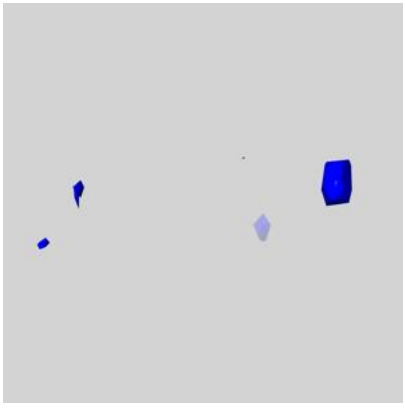
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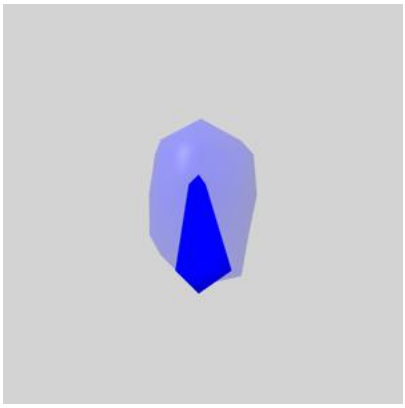
6.5.15 emd_1001_msk_11.map



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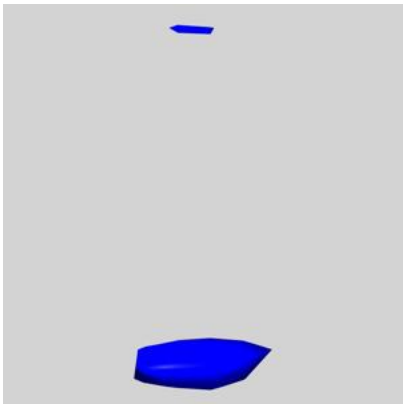

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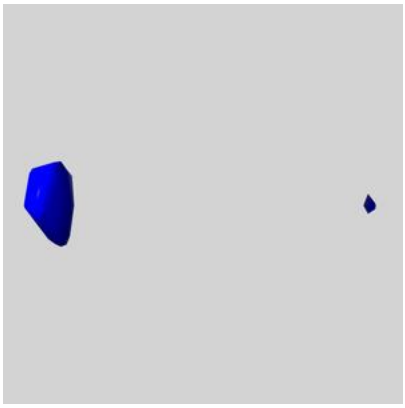

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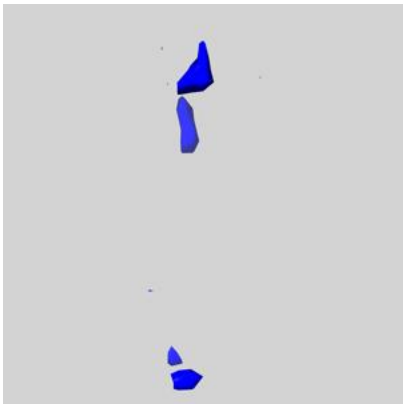
6.5.16 emd_1001_msk_10.map



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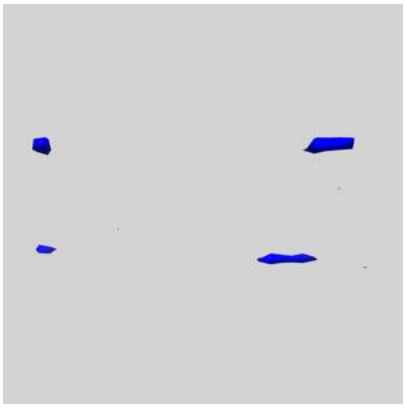

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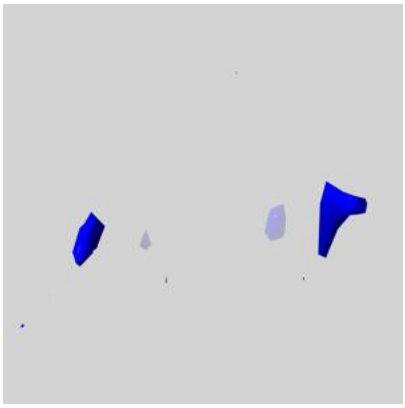

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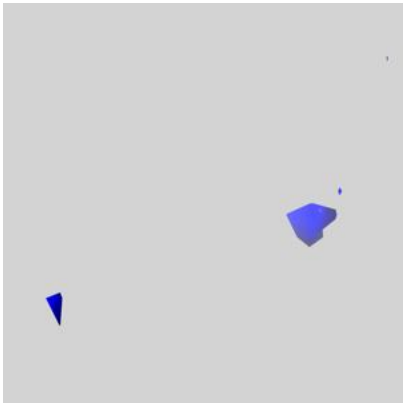
6.5.17 emd_1001_msk_9.map



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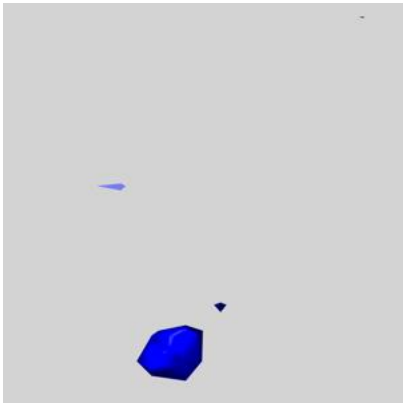

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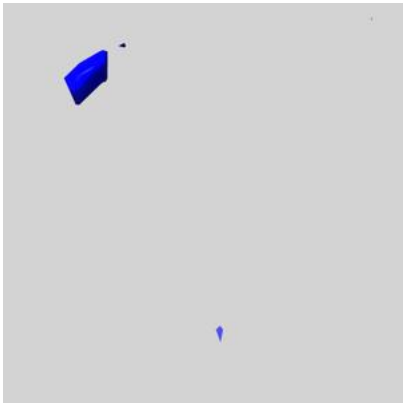

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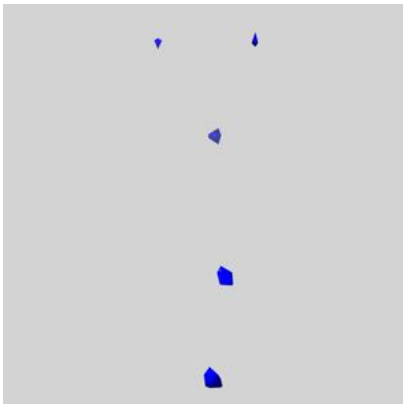
6.5.18 emd_1001_msk_8.map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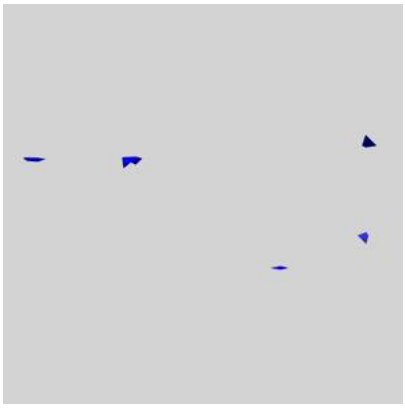
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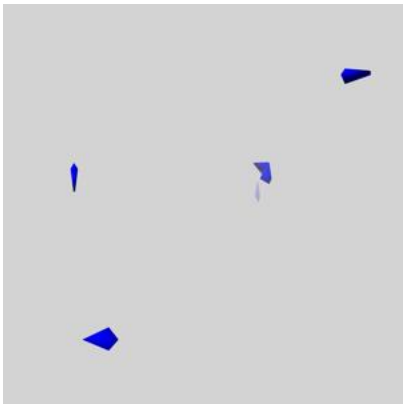
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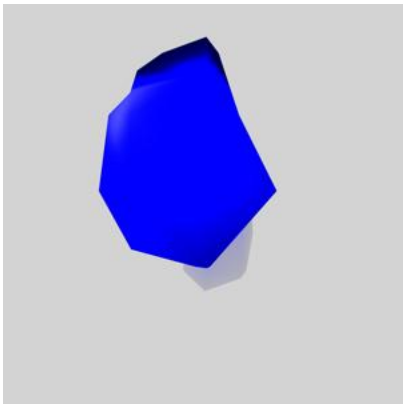
6.5.19 emd_1001_msk_7.map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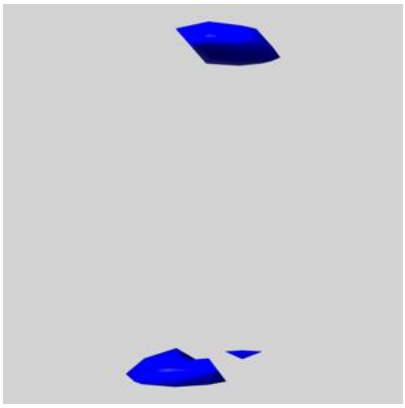
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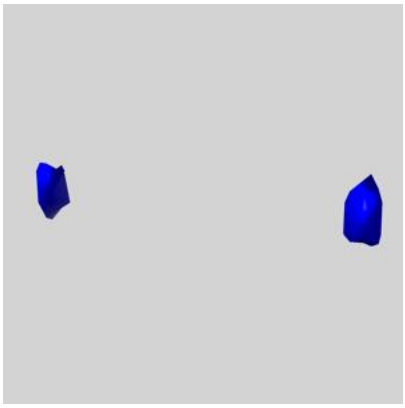
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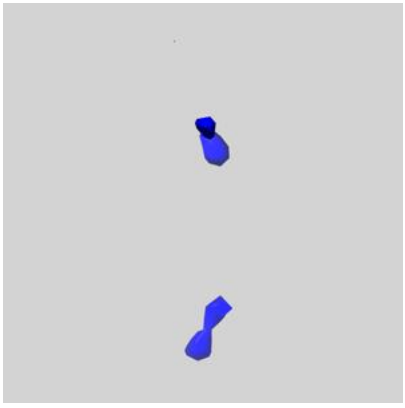
6.5.20 emd_1001_msk_6.map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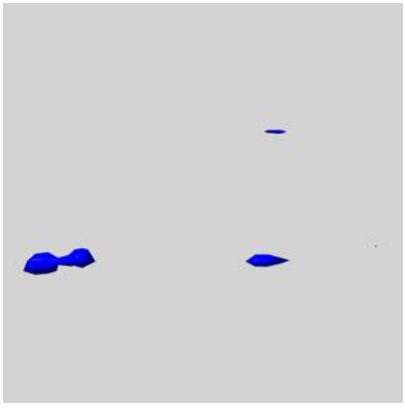
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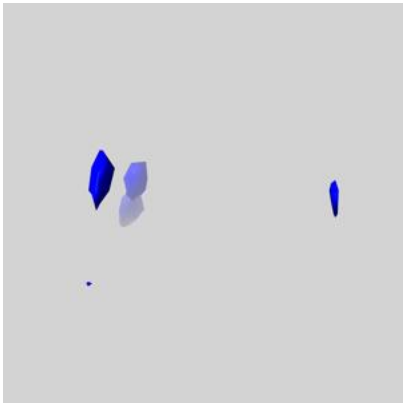
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6.5.21 emd_1001_msk_5.map

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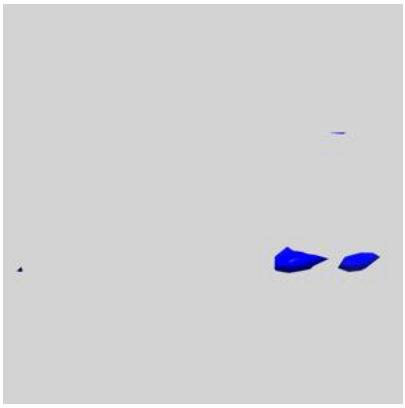
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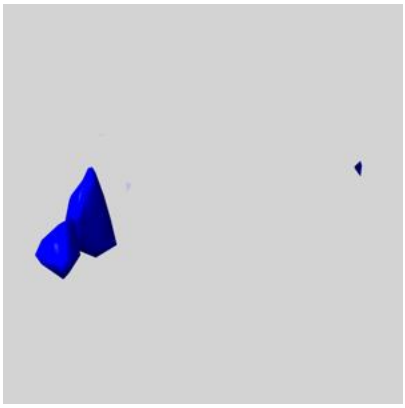
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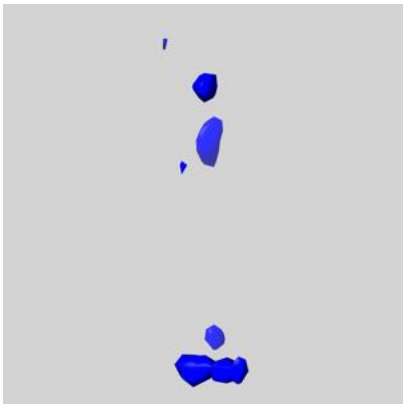
6.5.22 emd_1001_msk_4.map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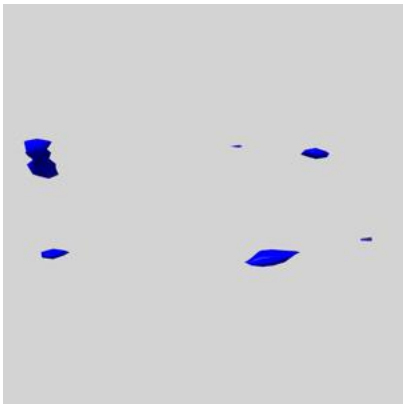
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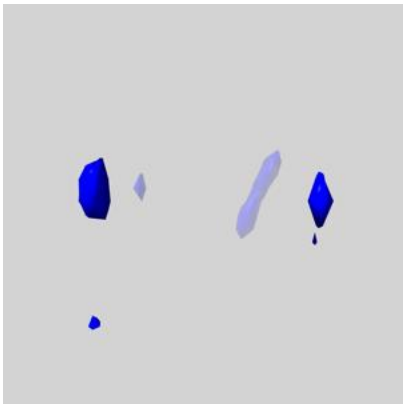
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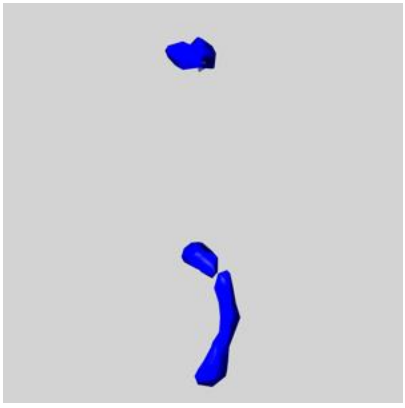
6.5.23 emd_1001_msk_3.map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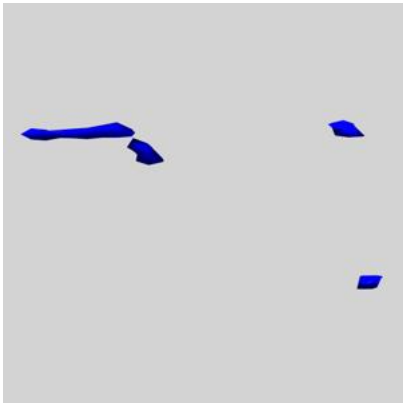
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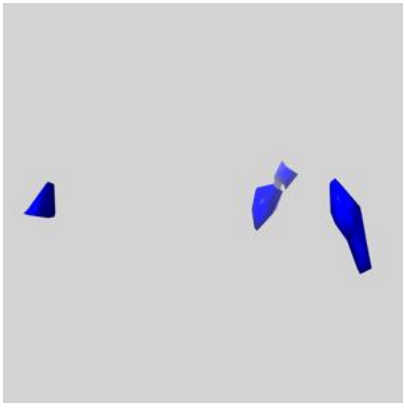
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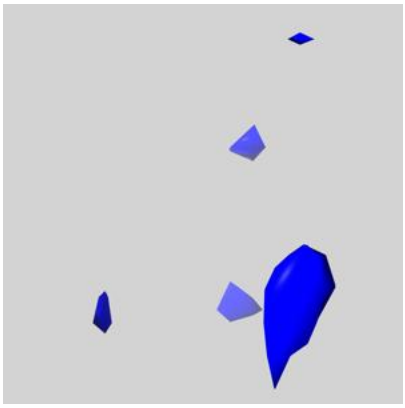
6.5.24 emd_1001_msk_2.map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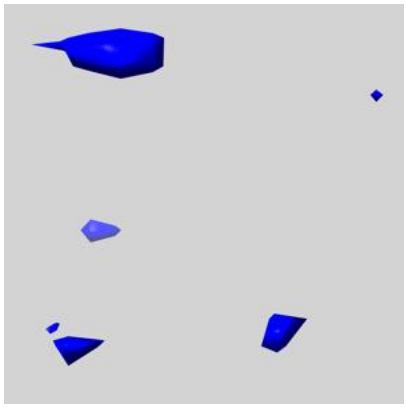
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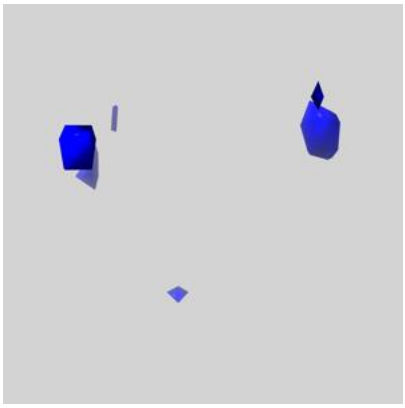
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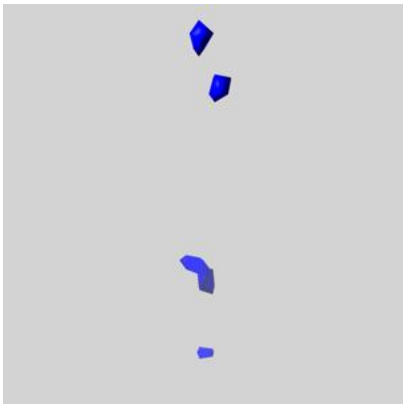
6.5.25 emd_1001_msk_1.map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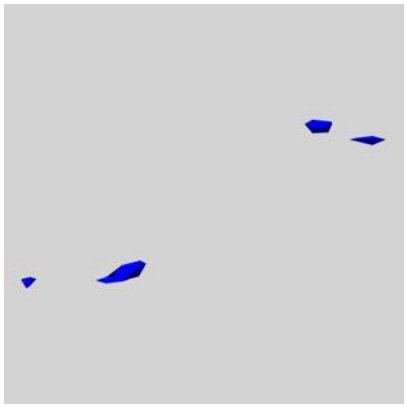
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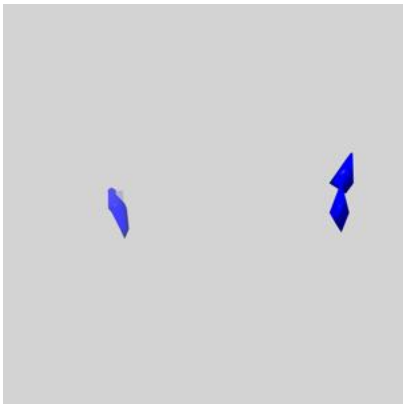
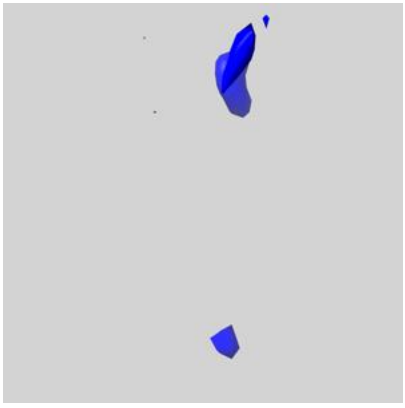
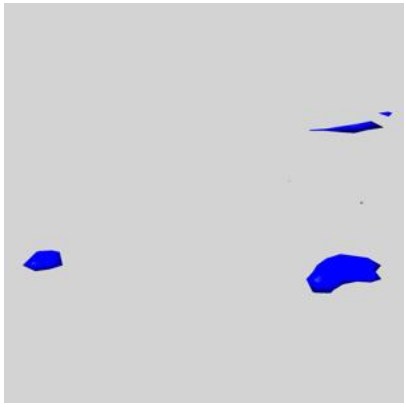
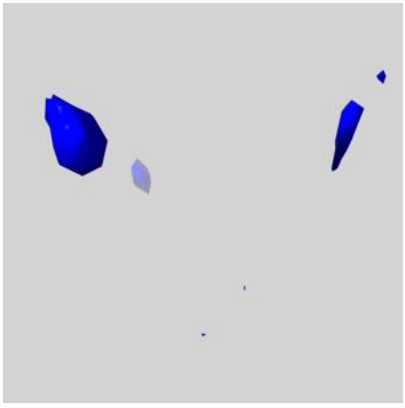

Z

6.5.26 emd_1001_msk_26.map


X

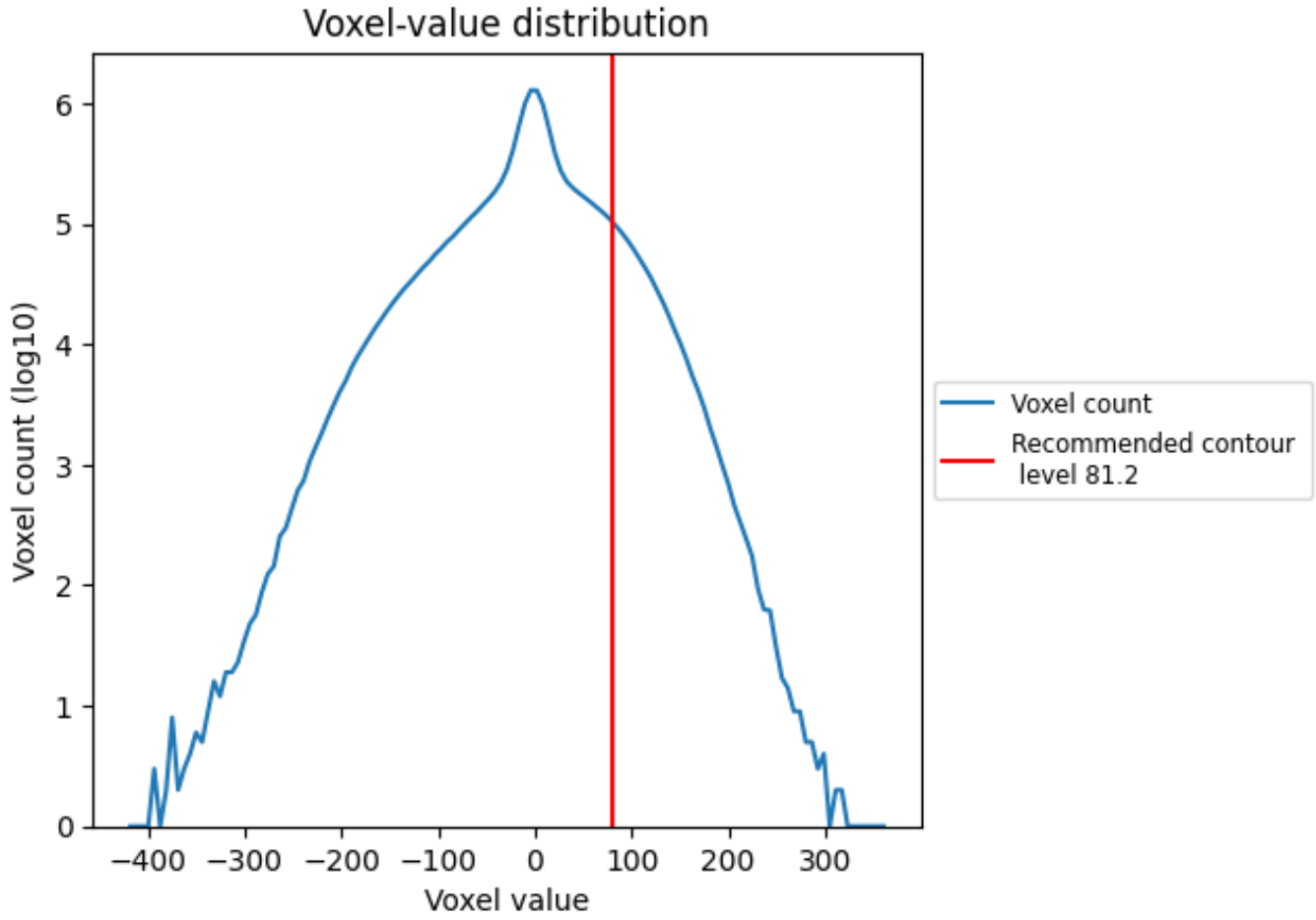

Y


Z

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.

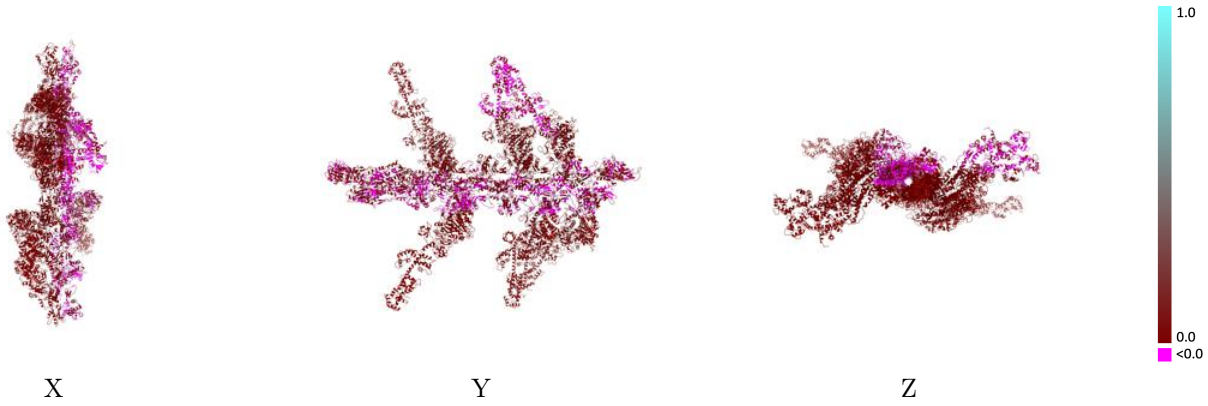
8 Map-model fit

This section contains information regarding the fit between EMDB map EMD-1001 and PDB model 1O1D. 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

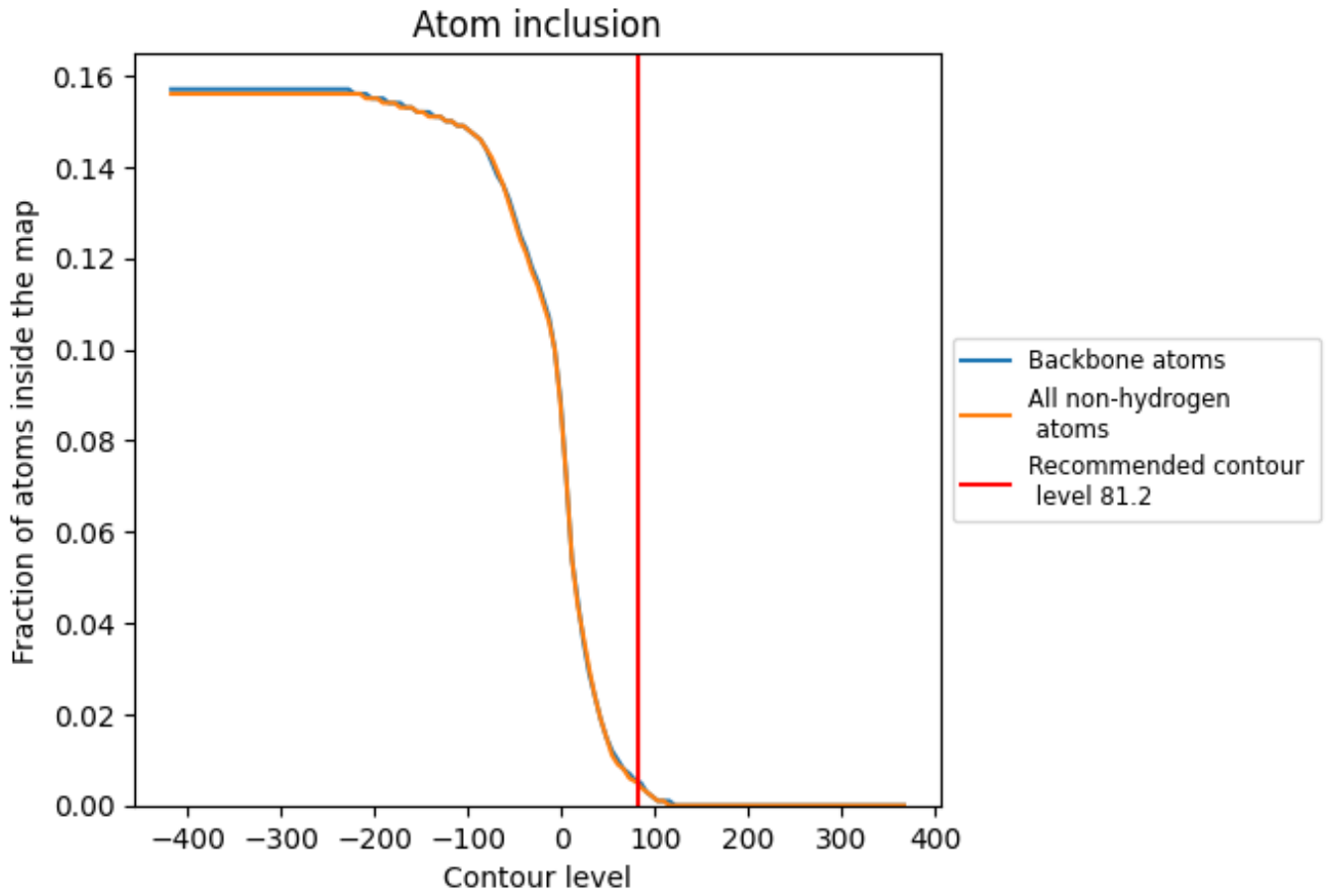


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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	0.0050	-0.0000
0	0.0000	0.0000
1	0.0150	0.0180
2	0.0000	-0.0100
3	0.0000	0.0040
4	0.0000	-0.0020
5	0.0000	0.0090
7	0.0000	0.0000
8	0.0000	-0.0080
9	0.0000	-0.0040
A	0.0000	-0.0020
B	0.0000	0.0000
C	0.0000	0.0000
D	0.0000	0.0080
E	0.0000	-0.0140
F	0.1160	0.0080
G	0.0000	-0.0030
H	0.0000	0.0000
I	0.0000	0.0000
J	0.0000	-0.0010
K	0.0150	0.0060
L	0.0000	-0.0230
M	0.0000	0.0030
N	0.0000	0.0000
O	0.0000	0.0000
P	0.0000	0.0000
Q	0.0000	0.0000
R	0.0000	0.0000
V	0.0000	-0.0170
W	0.0000	0.0020
X	0.0690	0.0040
Y	0.0000	0.0010
Z	0.0190	-0.0040