



Full wwPDB EM Validation Report ⓘ

Mar 17, 2026 – 06:01 PM UTC

PDB ID : 1O19 / pdb_00001o19
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 : 2002-11-15
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 ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

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

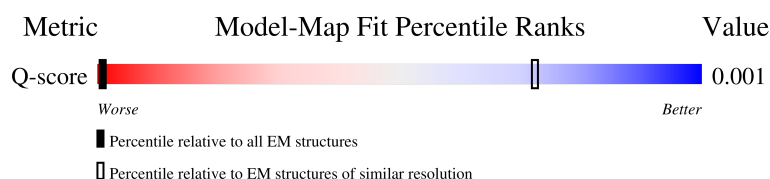
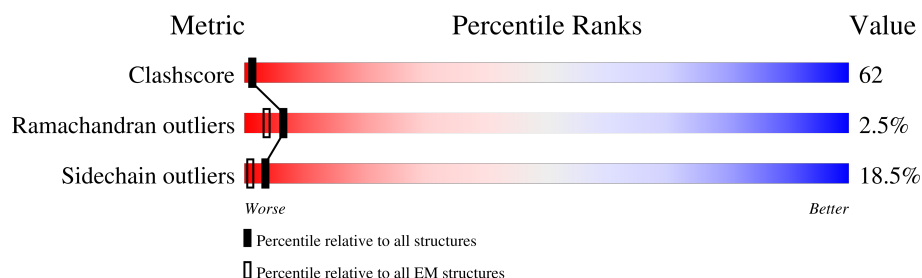
1 Overall quality at a glance

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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	18 (40.00 - 40.00)

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 $\leq 5\%$. 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% 25% 49% 22% .
1	D	840	100% 25% 49% 22% .
1	G	840	100% 24% 50% 22% .
1	J	840	99% 25% 49% 22% .

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Mol	Chain	Length	Quality of chain
1	M	840	
1	S	840	
2	B	145	
2	E	145	
2	H	145	
2	K	145	
2	N	145	
2	T	145	
3	C	147	
3	F	147	
3	I	147	
3	L	147	
3	O	147	
3	U	147	
4	1	375	
4	2	375	
4	3	375	
4	4	375	
4	5	375	
4	6	375	
4	7	375	
4	8	375	
4	9	375	
4	V	375	
4	W	375	

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Mol	Chain	Length	Quality of chain
4	X	375	
4	Y	375	
4	Z	375	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	MLY	A	505	-	-	X	-
1	MLY	A	553	-	-	X	-
1	MLY	A	764	-	-	X	-
1	MLY	A	768	-	-	X	-
1	MLY	A	782	-	-	X	-
1	MLY	A	839	-	-	X	-
1	MLY	D	553	-	-	X	-
1	MLY	D	782	-	-	X	-
1	MLY	D	839	-	-	X	-
1	MLY	G	295	-	-	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	768	-	-	X	-
1	MLY	J	839	-	-	X	-
1	MLY	J	84	-	-	X	-
1	MLY	M	35	-	-	X	-
1	MLY	M	553	-	-	X	-
1	MLY	M	839	-	-	X	-
1	MLY	M	84	-	-	X	-
1	MLY	S	505	-	-	X	-
1	MLY	S	764	-	-	X	-
1	MLY	S	839	-	-	X	-
1	MLY	S	84	-	-	X	-

2 Entry composition

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	S	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	T	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	U	147	Total	C	N	O	S	0	0
			1123	698	188	230	7		

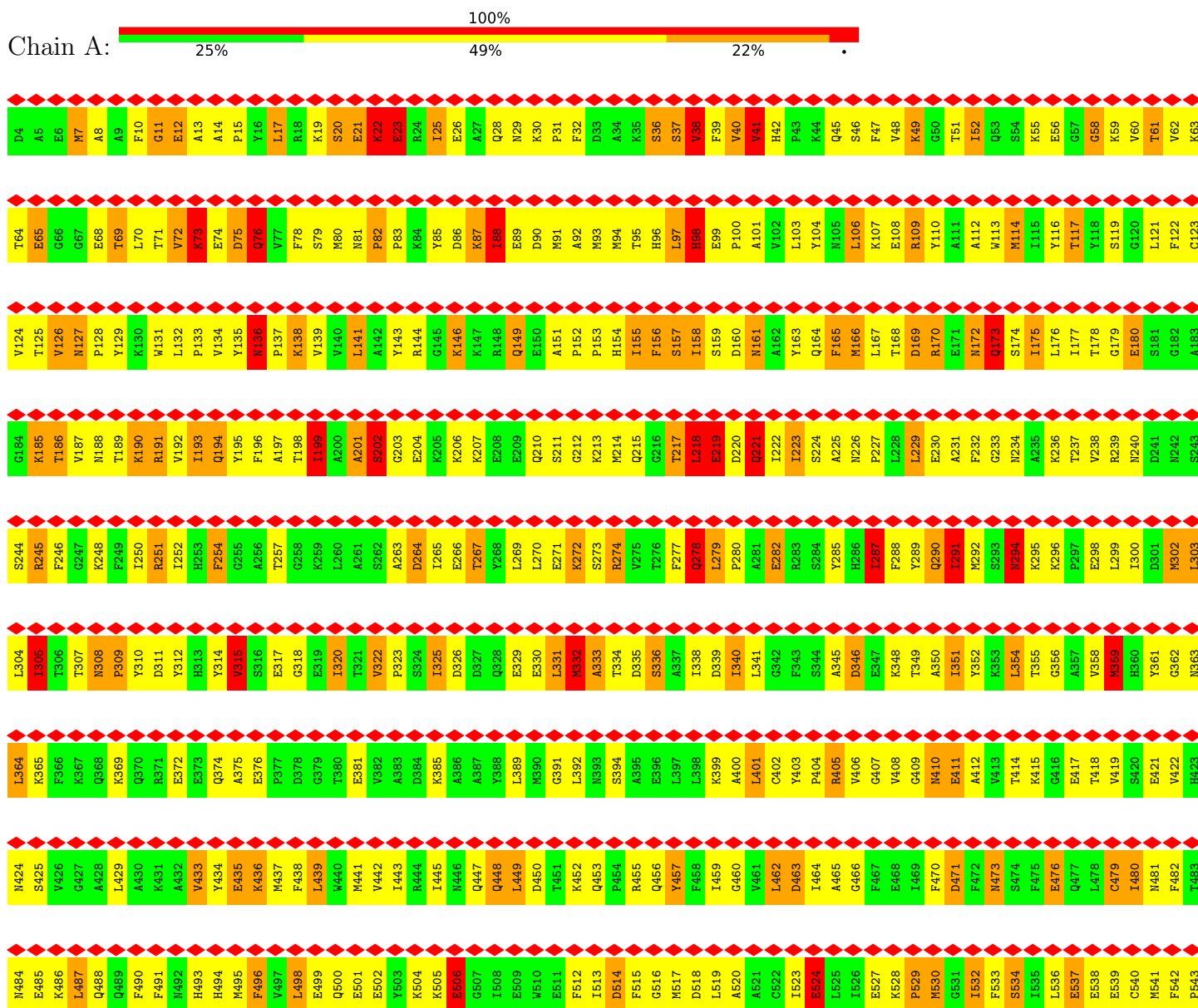
- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

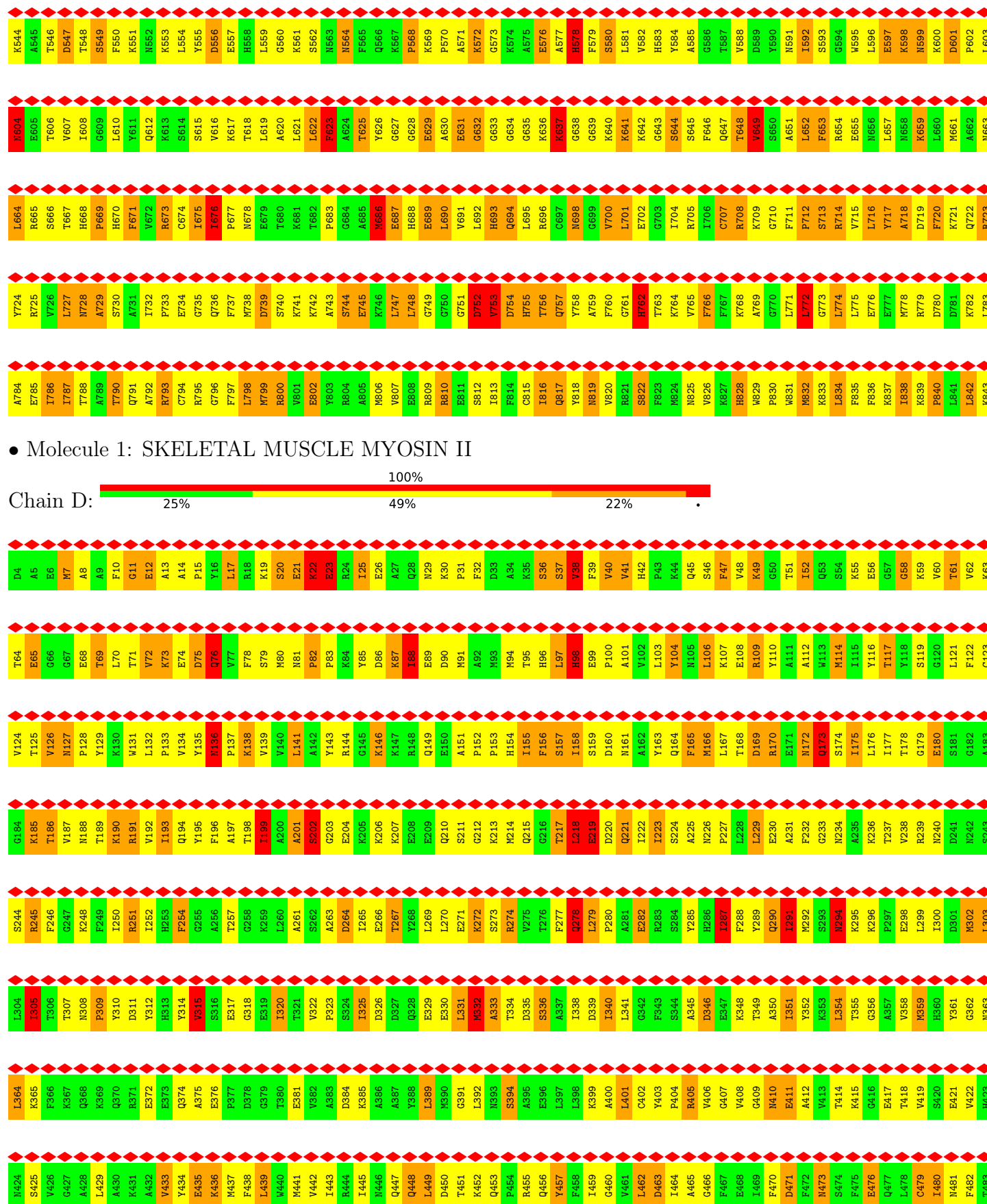
Mol	Chain	Residues	Atoms					AltConf	Trace
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	5	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20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

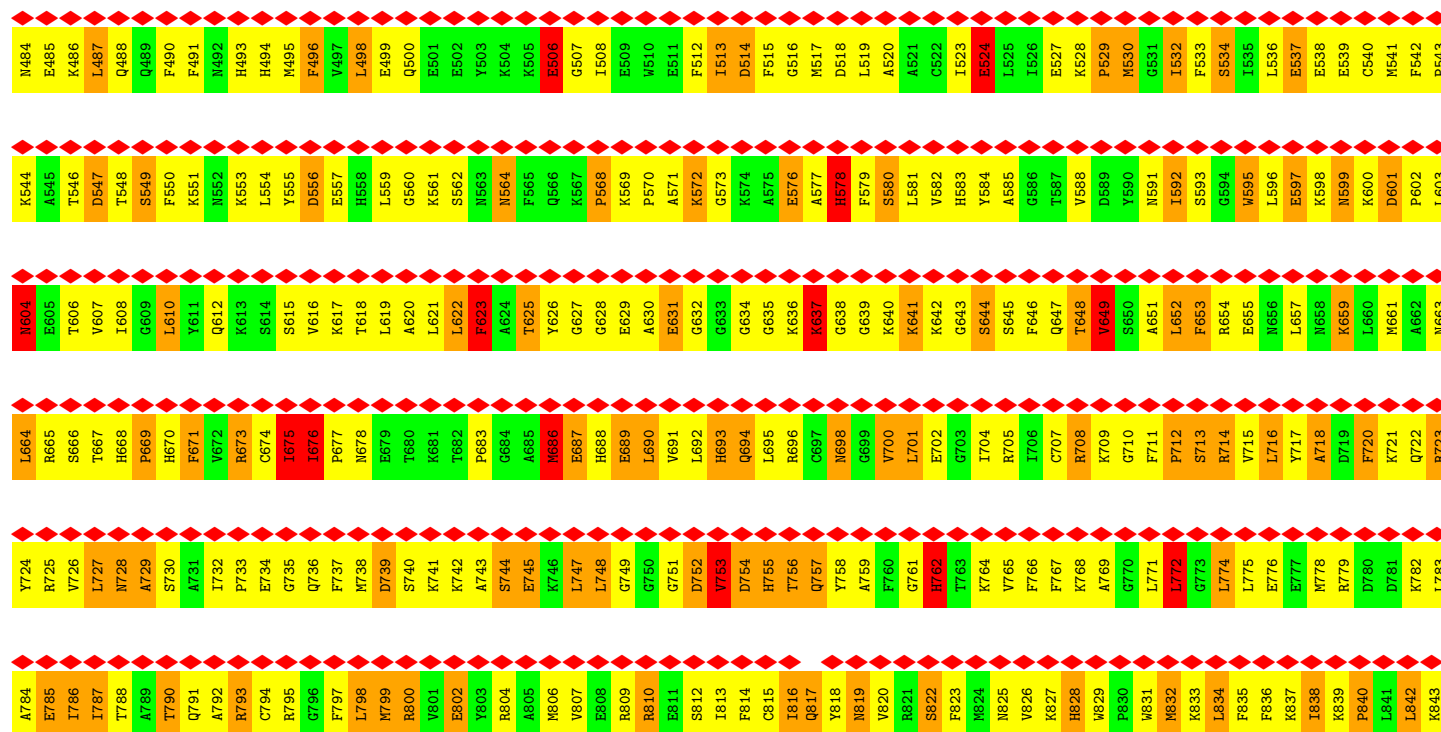
3 Residue-property plots

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.

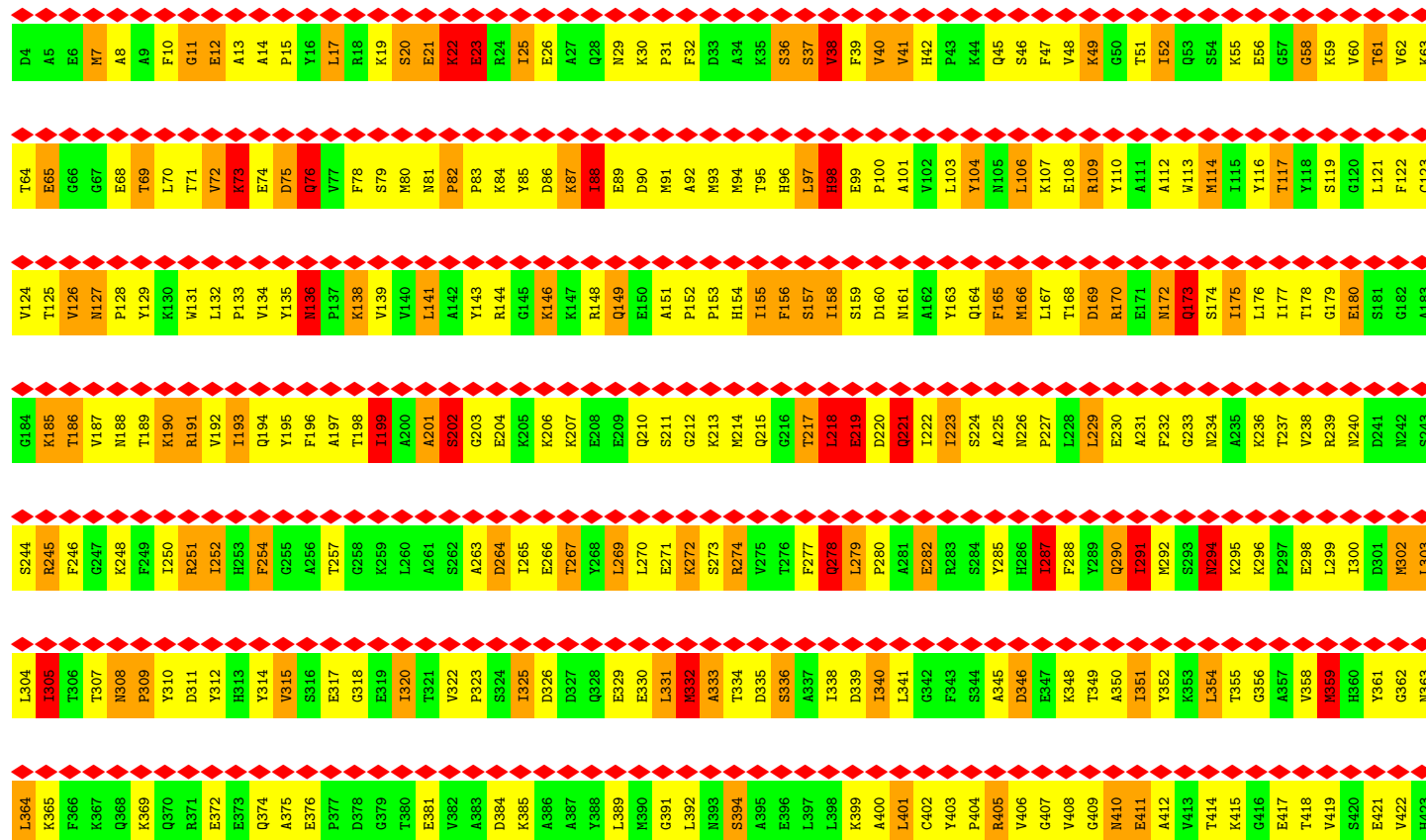
• Molecule 1: SKELETAL MUSCLE MYOSIN II

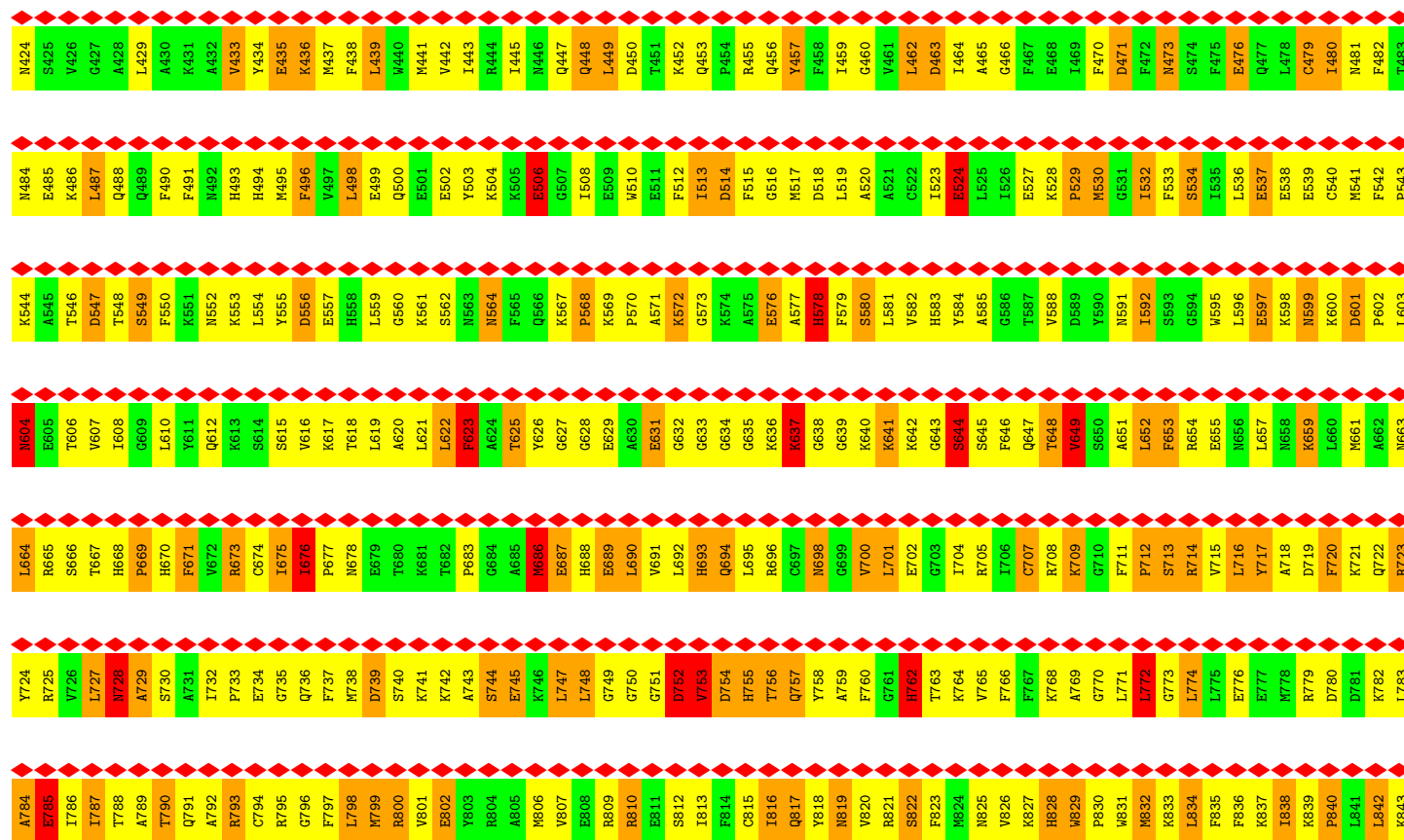




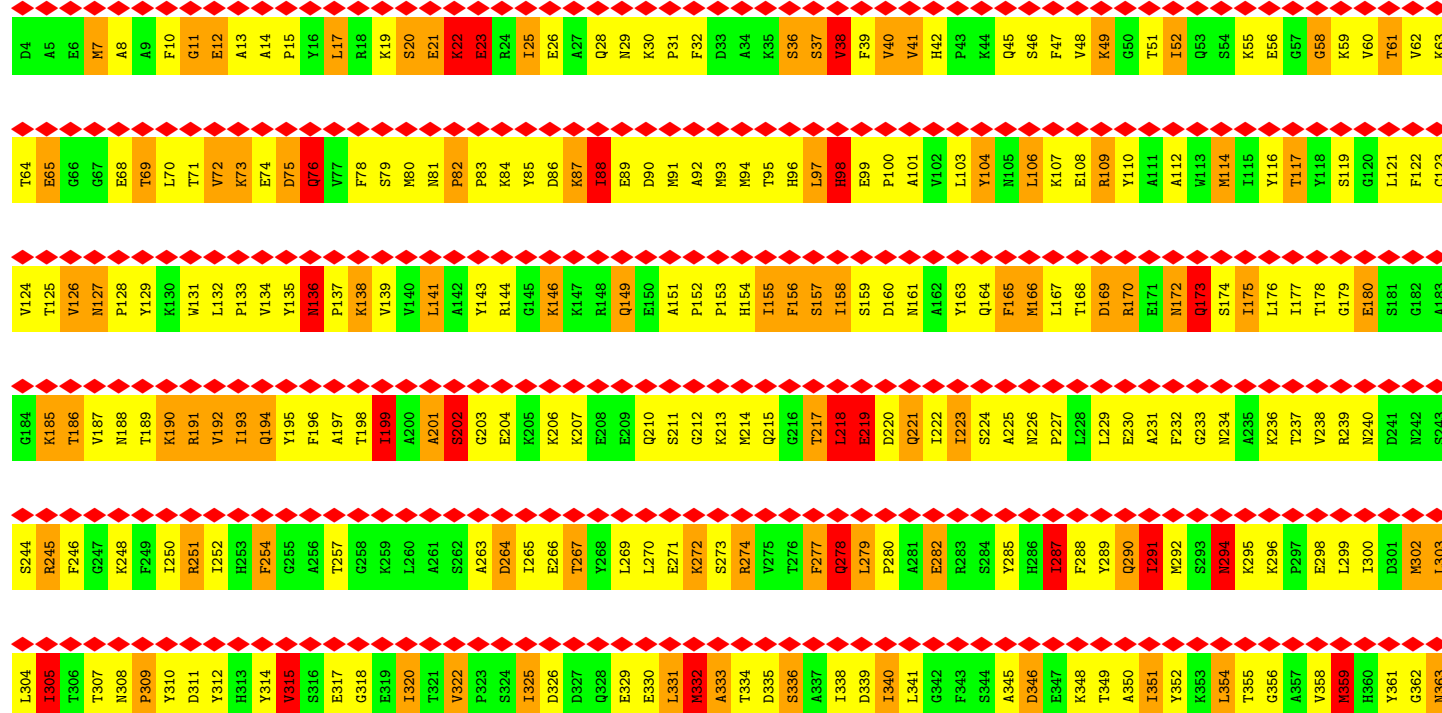


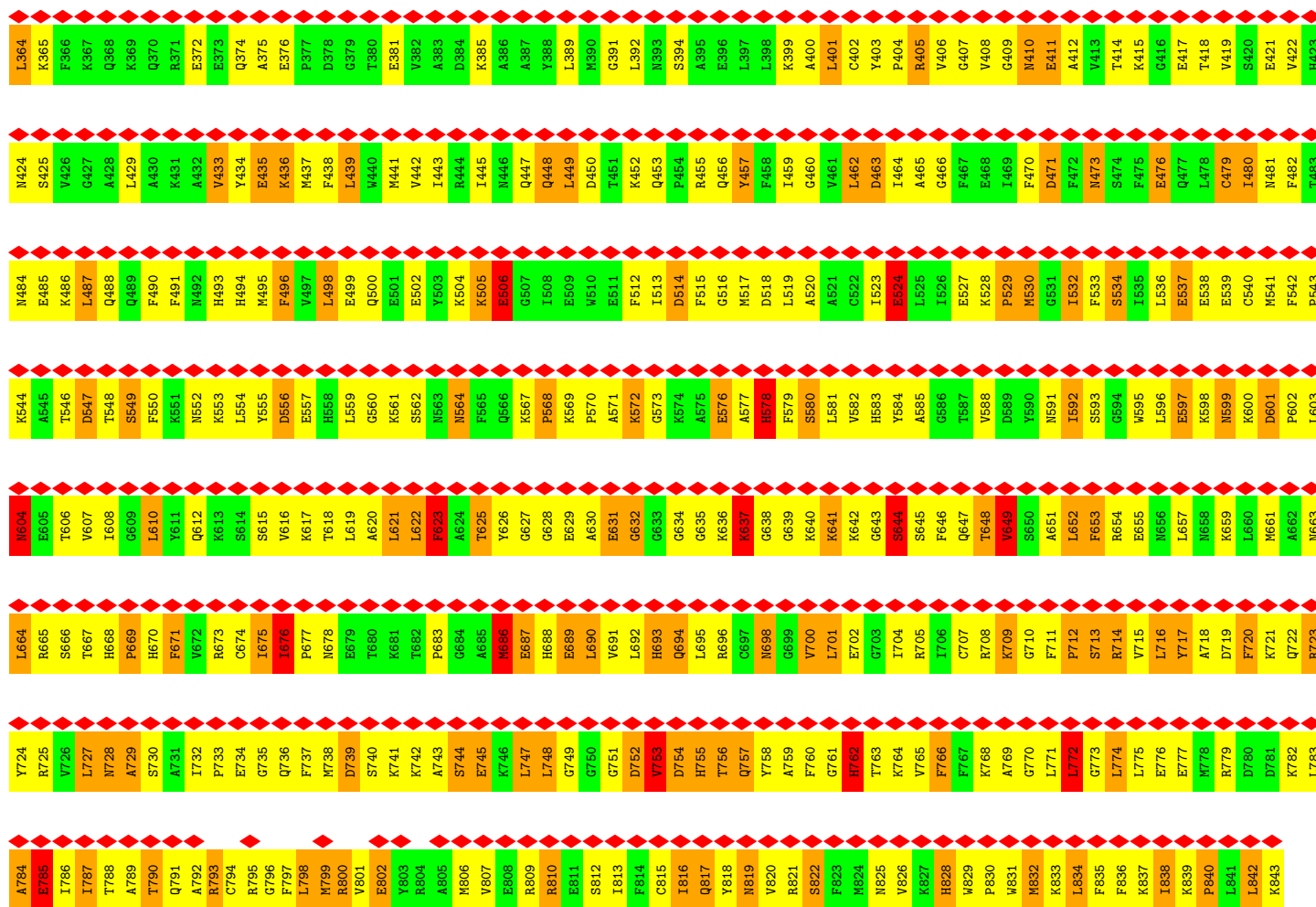
● Molecule 1: SKELETAL MUSCLE MYOSIN II



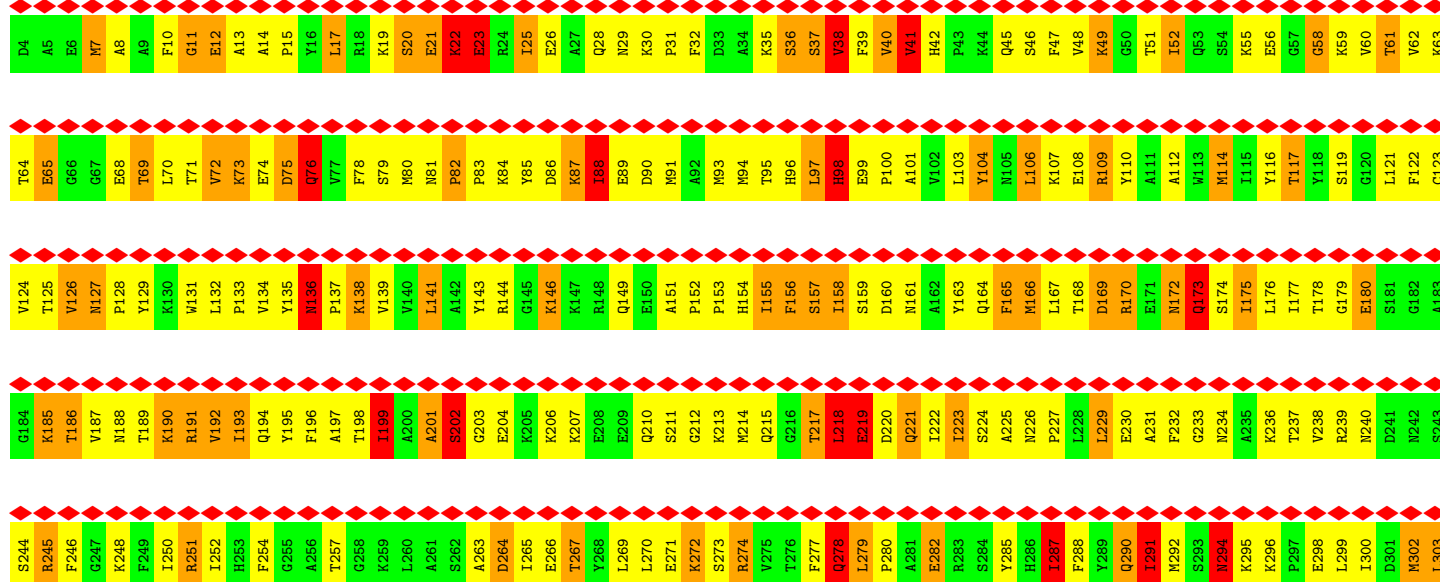


• Molecule 1: SKELETAL MUSCLE MYOSIN II





• Molecule 1: SKELETAL MUSCLE MYOSIN II



A784	L784	Y724	L664	M604	K544	N484	N424	L364	L304
R725	R665	R726	R666	E605	A545	E485	S425	K365	T306
I786	T667	T668	T667	T606	T546	K486	V426	F366	T307
T787	T667	T668	T667	V607	D547	Q488	G427	K367	N308
A789	P669	A729	P669	G609	S549	Q489	L429	K369	P309
T790	H670	S730	H670	L610	F550	F490	A430	Q370	Y310
Q791	F671	A731	F671	V611	K551	F491	K431	R371	D311
A792	V672	I732	V672	Q612	N552	N492	A432	E372	Y312
R793	R673	P733	R673	K613	K553	H493	V433	E373	H313
C794	C674	E734	C674	S614	L554	H494	Y434	Q374	Y314
R795	L675	G735	L675	S615	Y555	M495	E435	A375	V315
G796	L676	Q736	L676	V616	D556	F496	K436	E376	S316
F797	P677	F737	P677	K617	E557	V497	M437	F377	E317
L798	N678	M738	N678	T618	H558	L498	F438	D378	G318
M799	E679	D739	E679	L619	L559	E499	L439	G379	E319
R800	T680	S740	T680	A620	G560	Q500	A440	T380	I320
V801	K681	K741	K681	L621	K561	E501	M441	E381	T321
E802	T682	K742	T682	L622	S562	E502	V442	V382	V322
R803	P683	A743	P683	F623	N563	E603	I443	A383	P323
R804	S744	G684	S744	A624	N564	K504	R444	D384	S324
A805	A685	E745	A685	T625	F565	K505	I445	K385	I325
M806	K746	K746	K686	Y626	Q566	E506	N446	A386	D326
V807	E687	L747	E687	G627	K567	G507	Q447	A387	D327
E808	L748	H688	L748	G628	P568	I508	Q448	V388	Q328
R809	E689	G749	E689	E629	K569	E509	L449	L389	E329
R810	G750	G750	L690	A630	P570	W510	D450	M390	E330
E811	G751	Q751	V691	E631	A571	E511	T451	G391	L331
S812	D752	D752	L692	G632	K572	F512	K452	L392	M332
I813	H693	V753	H693	G633	G573	I513	Q453	N393	A333
F814	Q694	D754	Q694	G634	K574	D514	P454	S394	T334
C815	L695	H755	L695	G635	A575	F515	R455	A395	D335
L816	R696	T756	R696	G636	E576	G516	Q456	E396	S336
Q817	G697	Q757	G697	K637	A577	M517	Y457	L397	A337
Y818	N698	Y758	N698	G638	H578	D518	F458	L398	I338
M819	G699	A759	G699	G639	F579	L519	I459	K399	D339
V820	F760	F760	V700	K640	S580	A520	G460	A400	I340
R821	L701	G761	L701	K641	L581	A521	V461	L401	L341
S822	E702	R762	E702	K642	V582	C522	L462	C402	G342
T763	G703	T763	G703	G643	H583	I523	D463	Y403	F343
M824	K704	I704	K764	S644	Y584	E524	I464	P404	S344
N825	R705	V765	R705	S645	A585	L525	A465	R405	A345
R826	F766	F766	F706	F646	G586	I526	G466	V406	D346
K827	C707	F767	C707	Q647	T587	E527	F467	G407	E347
H828	R708	K768	R708	T648	V588	K528	E468	V408	K348
W829	K709	A769	K709	V649	D589	P529	I469	G409	T349
P830	G770	G770	G710	S650	Y590	M530	F470	A350	A350
W831	F711	L771	F711	A651	N591	G531	D471	E411	I351
M832	L772	L772	L772	P651	I592	I532	F472	A412	Y352
K833	G773	K773	G773	F653	S593	F533	M473	V413	K353
L834	L774	R714	L774	R654	G594	S534	S474	L354	L354
F835	L775	V715	L775	E655	N595	I535	F475	K415	T355
R836	L716	L716	L716	N656	L596	L536	E476	G416	G356
K837	E777	Y717	E777	L657	E597	E537	Q477	E417	A357
I838	A718	A718	A718	N658	K598	E538	L478	T418	V358
K839	D719	R779	D719	K659	N599	E539	C479	V419	M359
P840	F720	D780	F720	L660	K600	C540	I480	S420	H360
L841	K721	D781	K721	M661	D601	M541	N481	E421	Y361
L842	Q722	K782	Q722	A662	P602	F542	F482	V422	G362
R843	R773	L793	R773	N663	L603	P543	T483	H423	N363

● Molecule 1: SKELETAL MUSCLE MYOSIN II



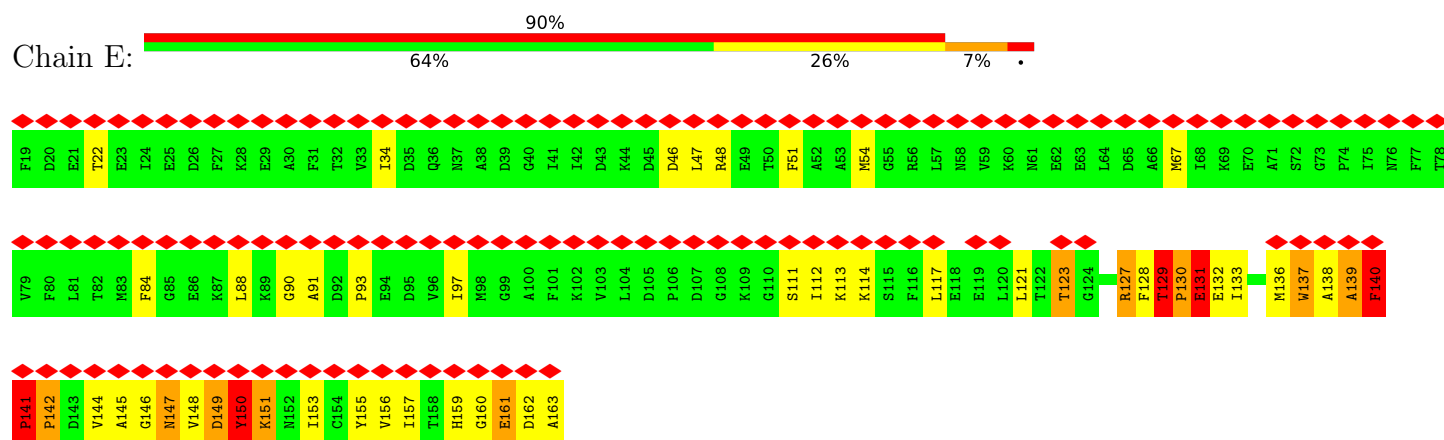
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T64	E65	G66	G67	E68	T69	L70	T71	V72	K73	E74	D75	Q76	V77	F78	S79	M80	P82	P83	K84	Y85	D86	K87	I88	E89	D90	N91	A92	N93	M94	T95	H96	L97	N98	E99	D100	A101	V102	L103	Y104	L106	N107	V108	R109	Y110	A111	A112	Q113	M114	T115	Y116	L117	Y118	S119	G120	L121	F122	C123		
V124	T125	V126	N127	P128	Y129	K130	Y131	L132	P133	V134	Y135	N136	P137	K138	V139	V140	L141	A142	Y143	R144	G145	K146	K147	L148	Q149	E150	A151	P152	P153	H154	T155	F156	S157	N158	S159	D160	N161	A162	Y163	Q164	F165	M166	L167	T168	D169	R170	E171	N172	Q173	S174	T175	L176	T177	T178	G179	E180	S181	G182	A183
G184	K185	T186	V187	N188	T189	K190	R191	V192	I193	Q194	Y195	F196	A197	T198	I199	A200	A201	S202	G203	E204	K205	K206	K207	E208	E209	Q210	S211	G212	K213	M214	Q215	G216	T217	L218	E219	D220	Q221	I222	I223	S224	A225	N226	P227	T228	L229	E230	A231	F232	G233	N234	A235	K236	T237	V238	R239	N240	D241	N242	S243



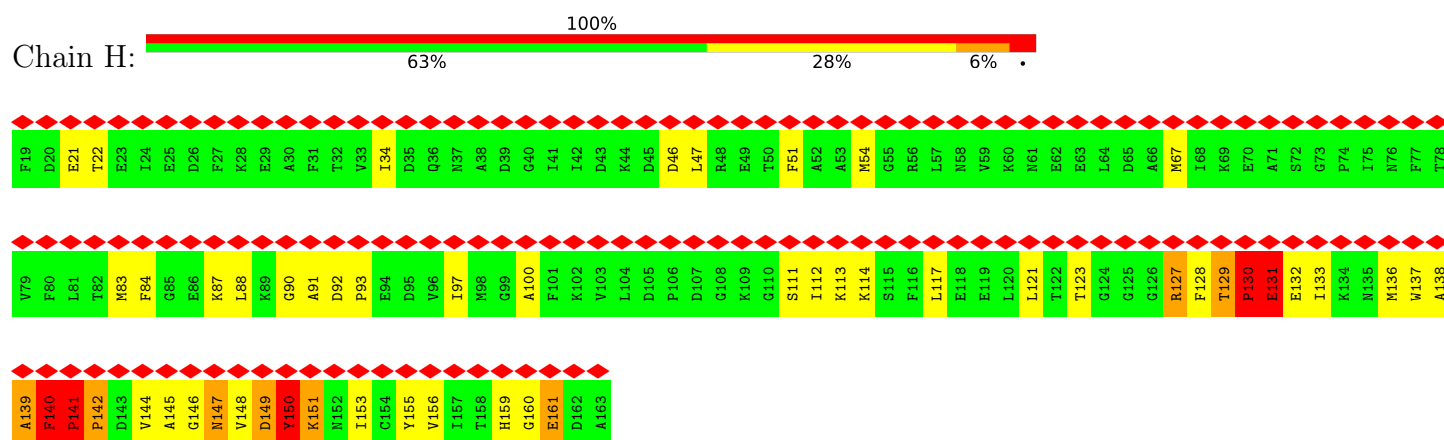
Device Type	Percentage
Smartphones	100%
Tablets	65%
Smart TVs	26%
Smart Speakers	6%



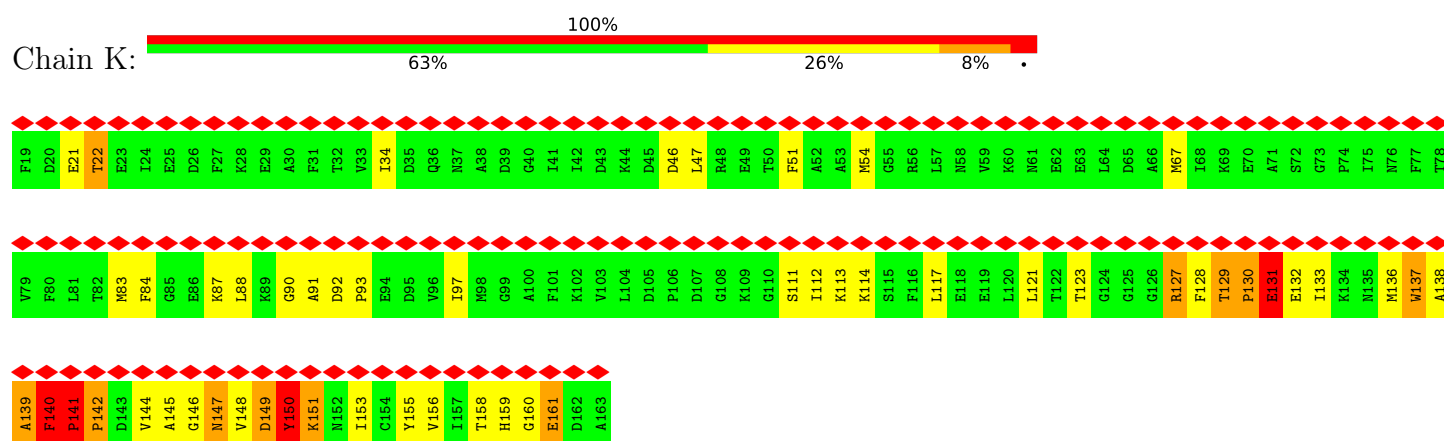
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN



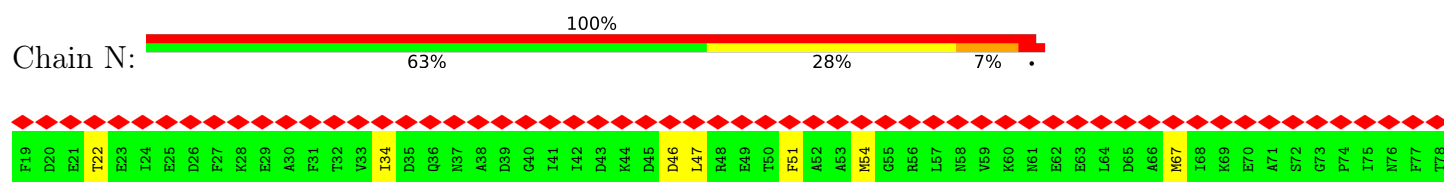
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

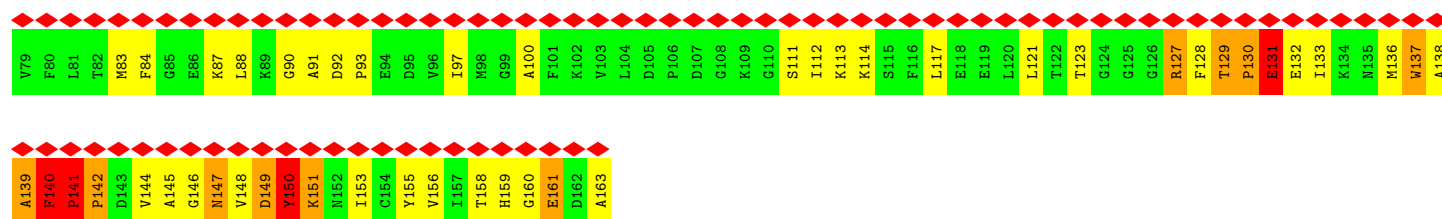


• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

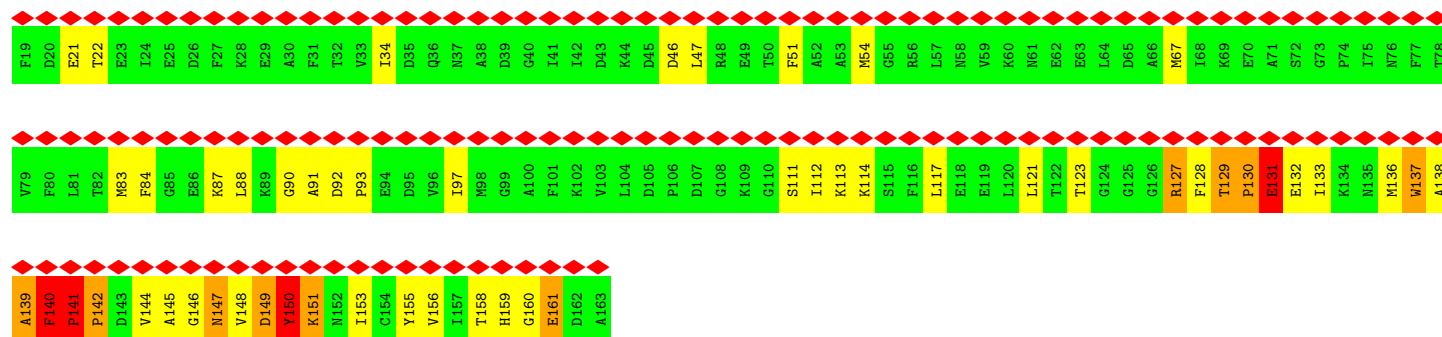


• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

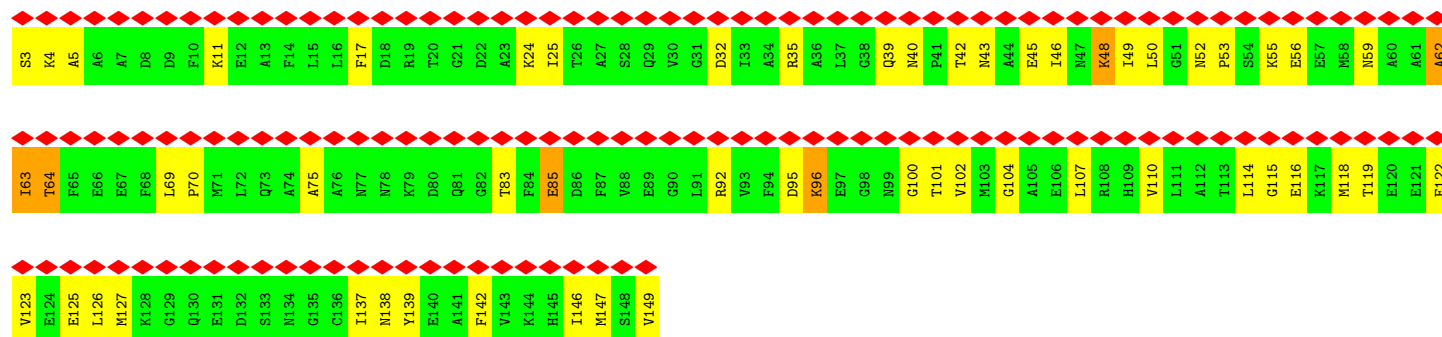




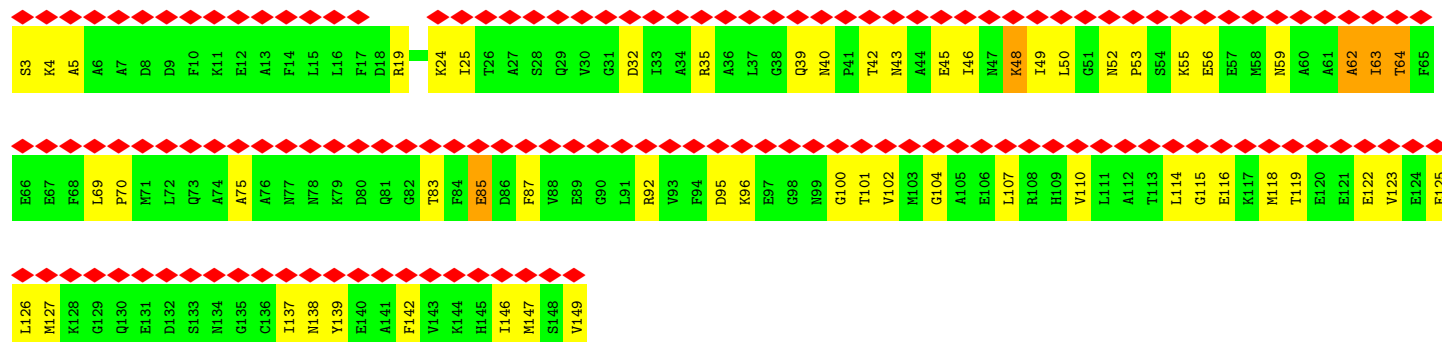
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN



• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



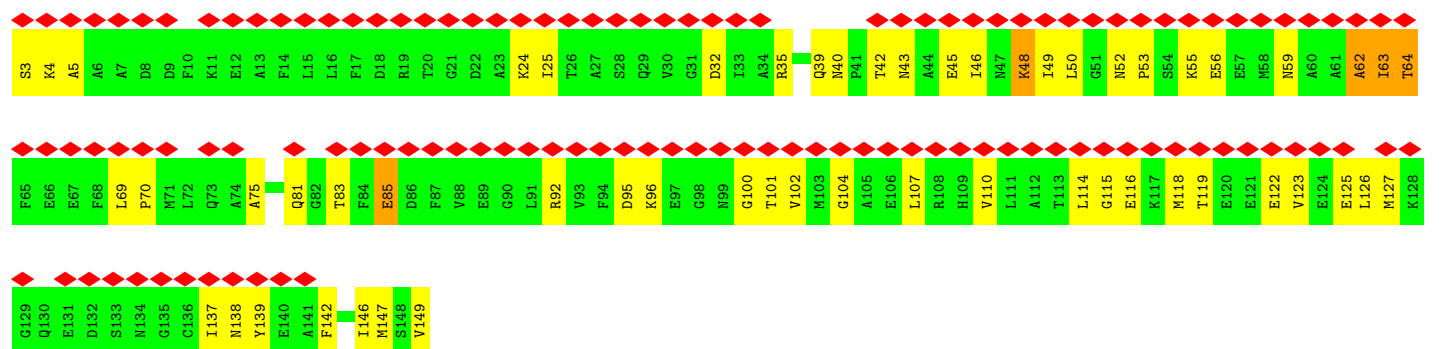
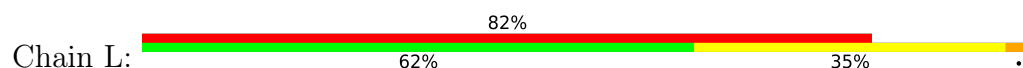
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



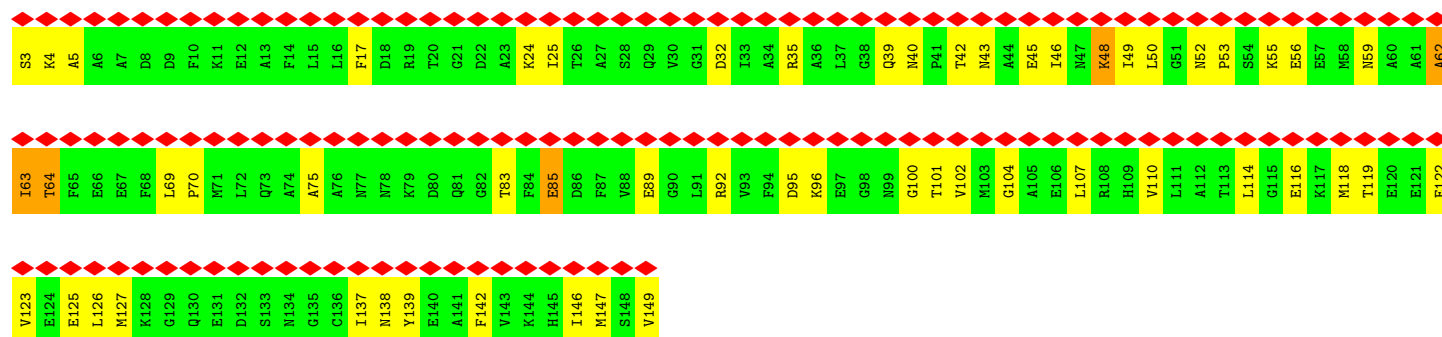
- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

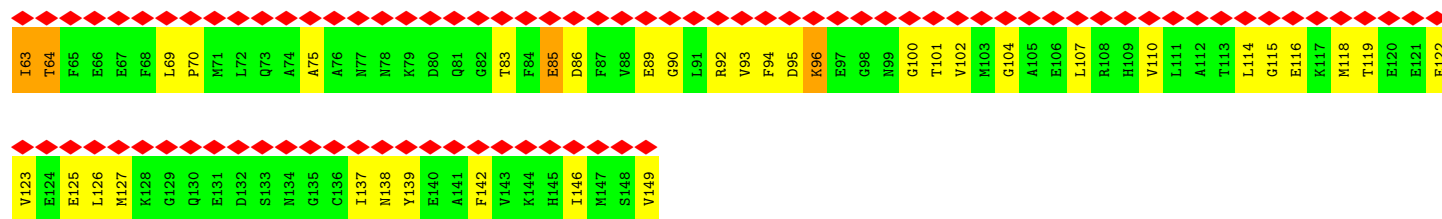


- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

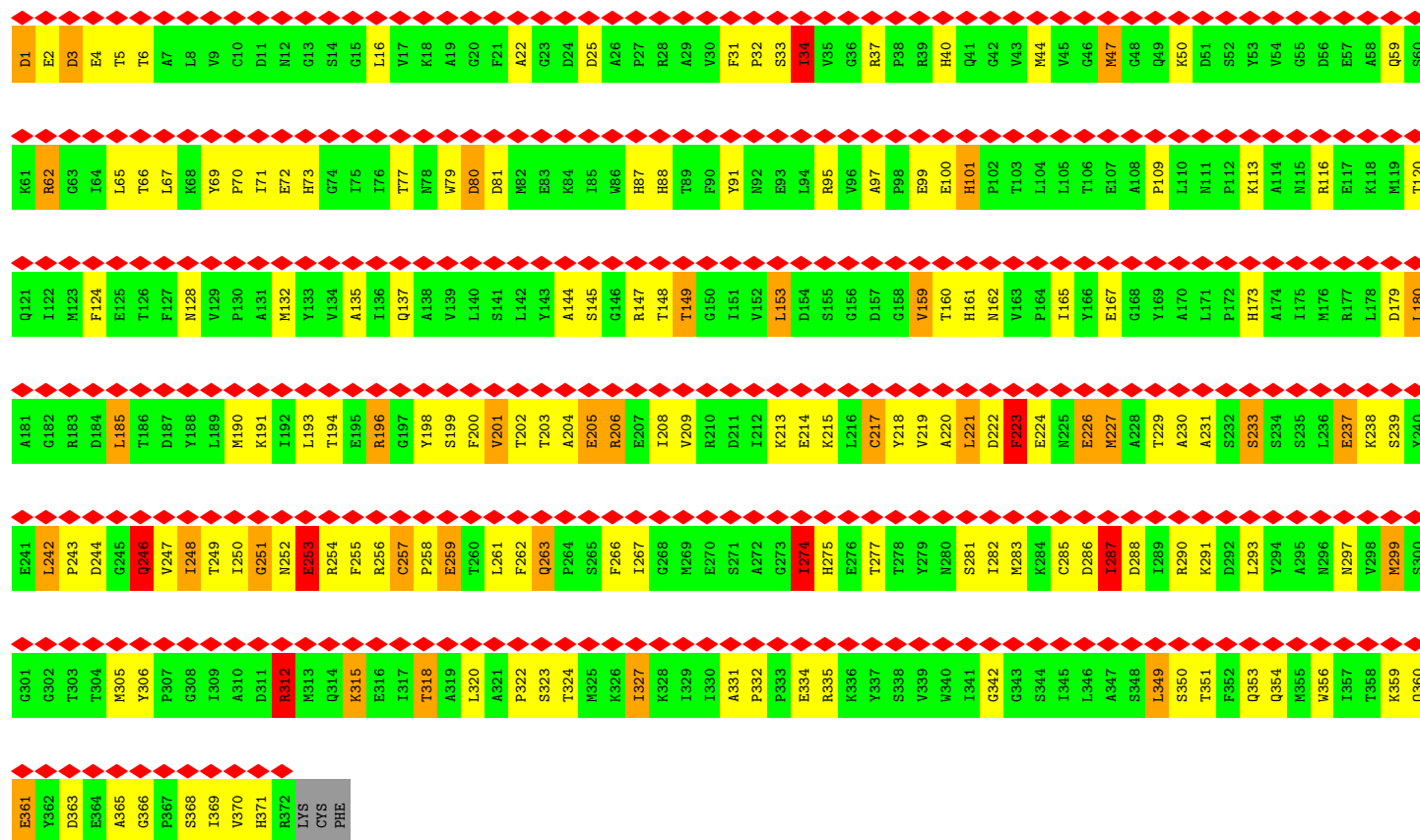


- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

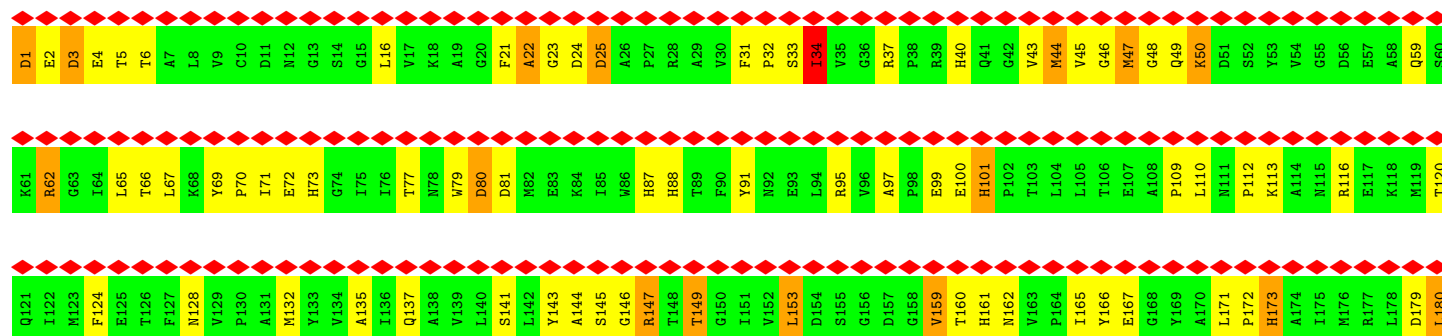


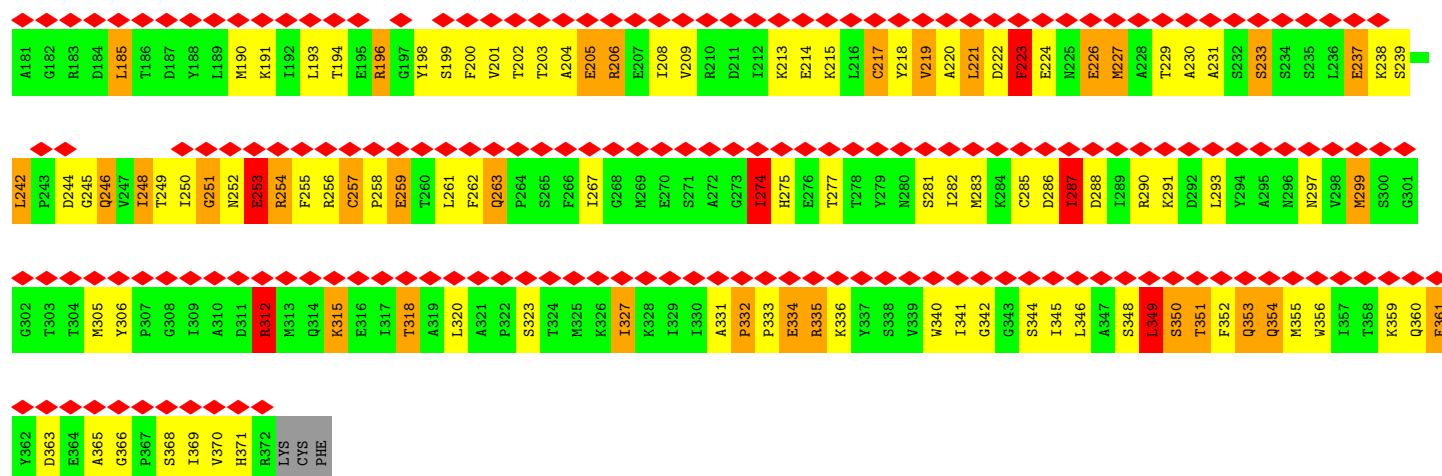


• Molecule 4: SKELETAL MUSCLE ACTIN

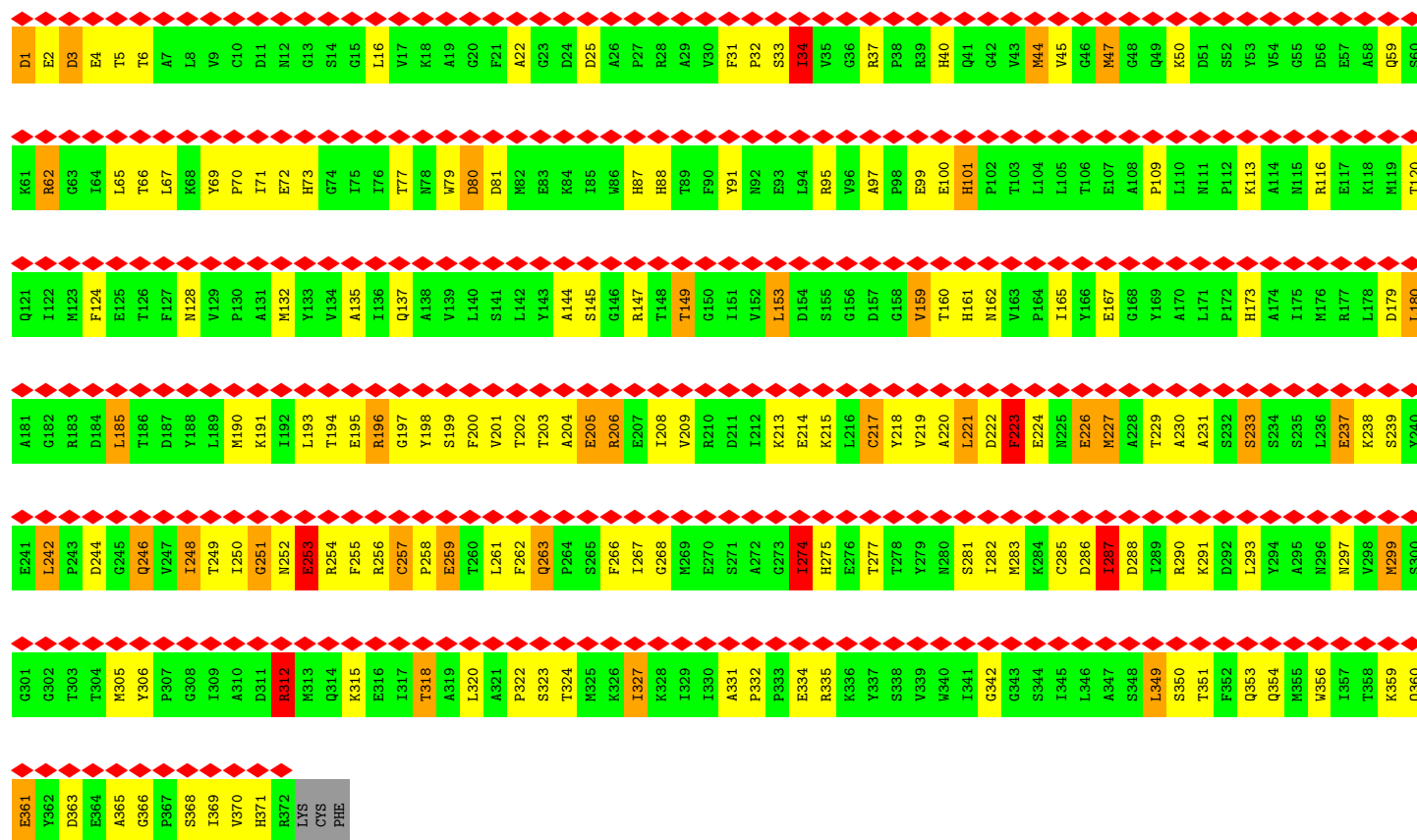


• Molecule 4: SKELETAL MUSCLE ACTIN

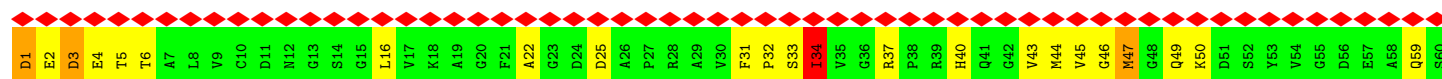


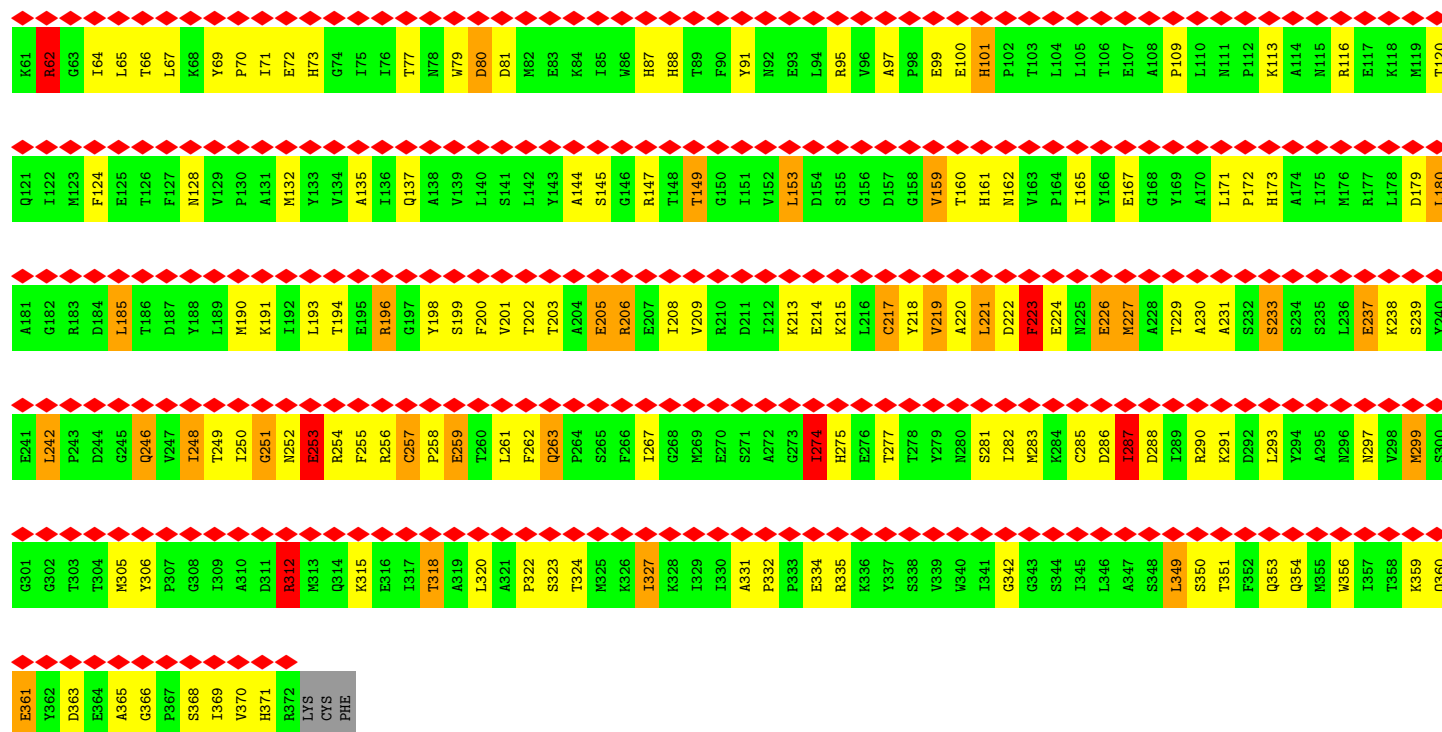


• Molecule 4: SKELETAL MUSCLE ACTIN

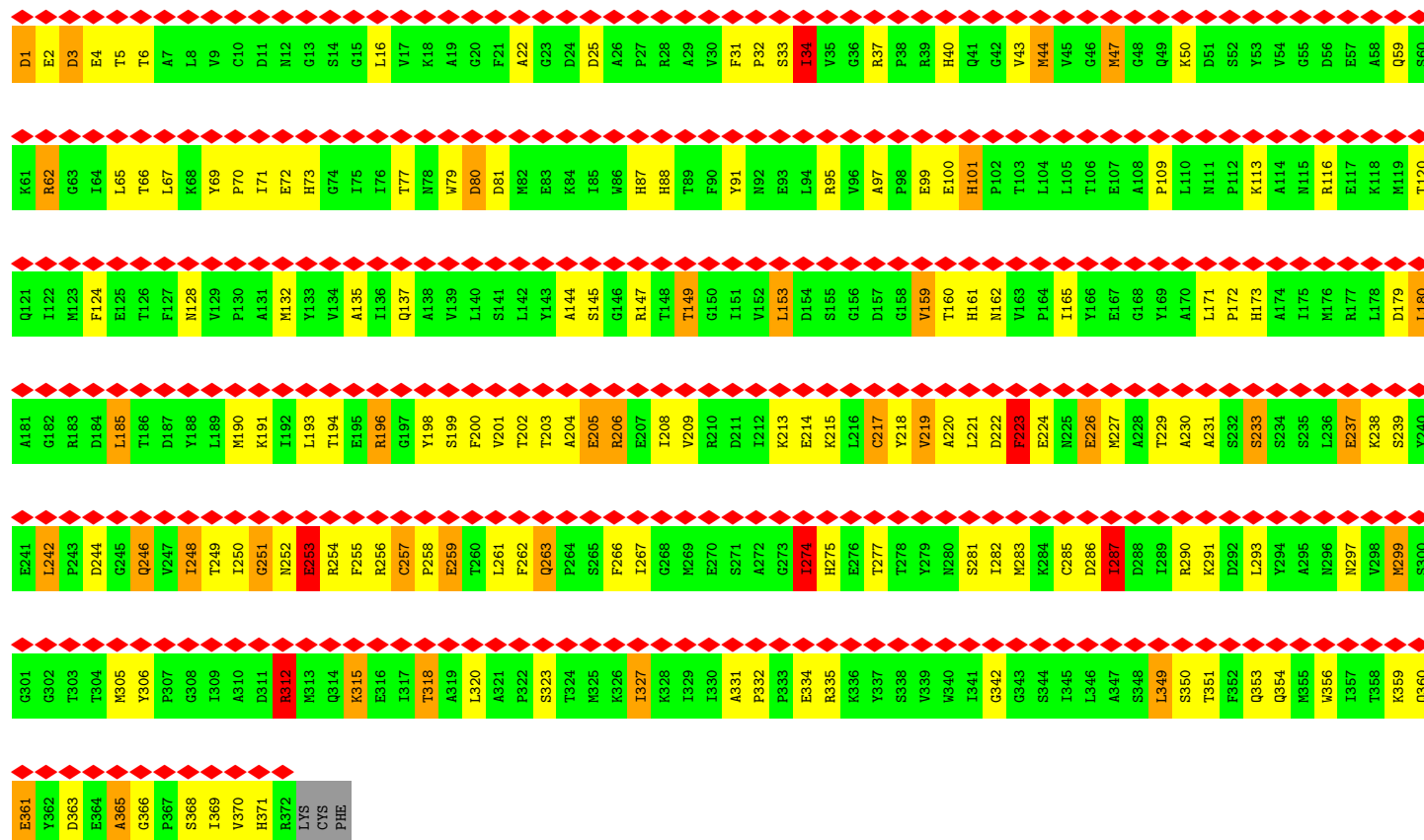


• Molecule 4: SKELETAL MUSCLE ACTIN

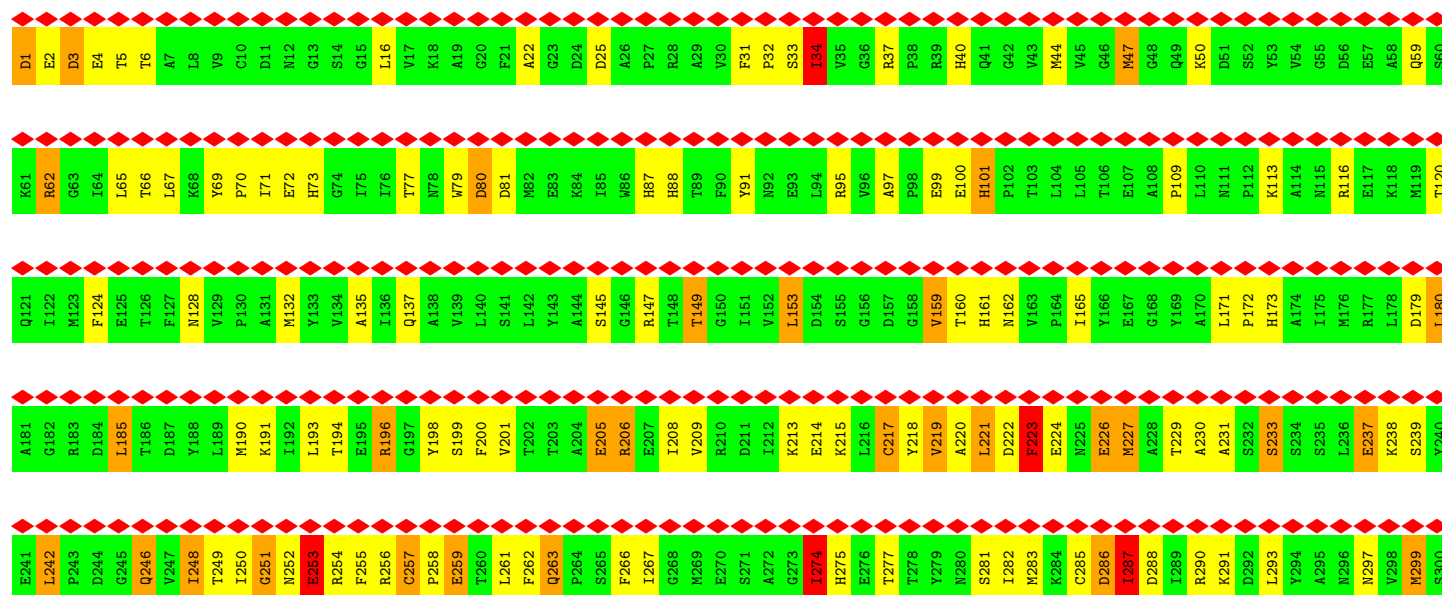




• Molecule 4: SKELETAL MUSCLE ACTIN

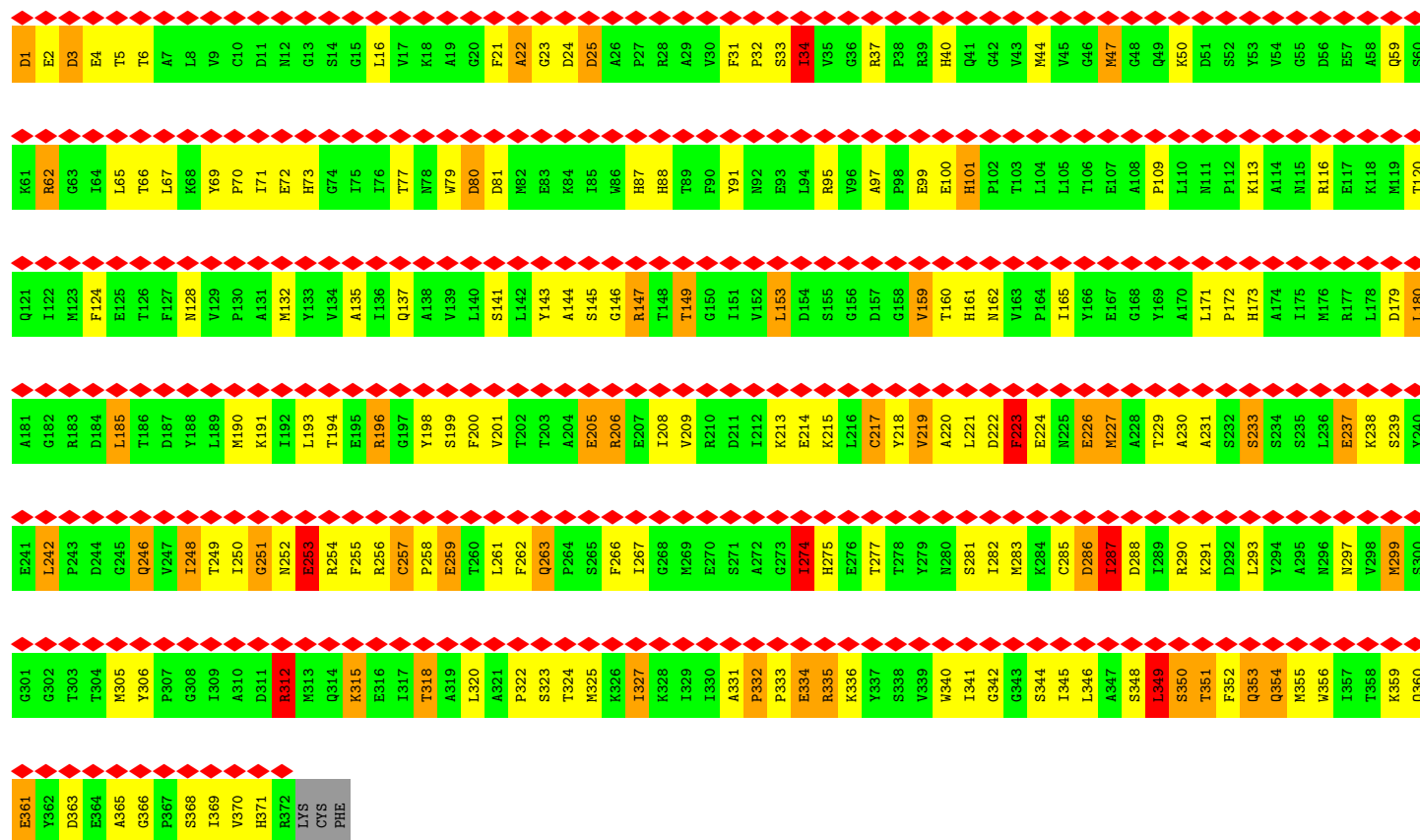


Chain 6: 99% 56% 34% 8%

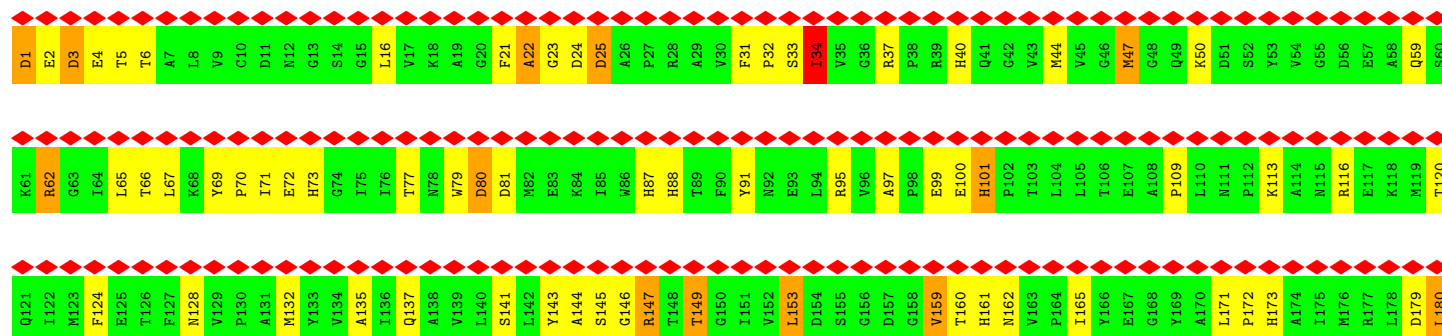


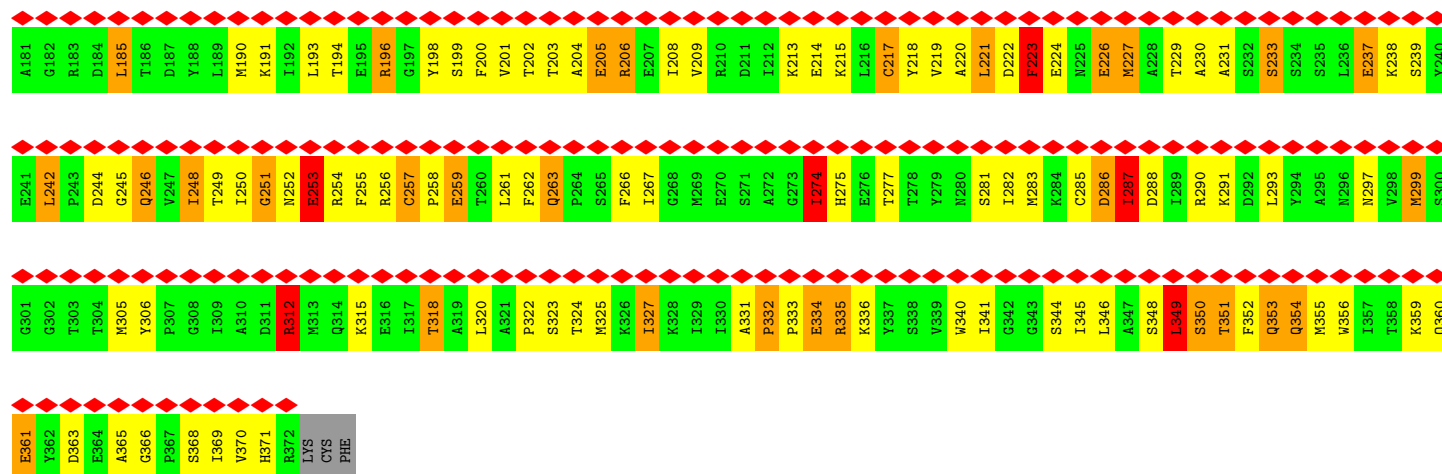


• Molecule 4: SKELETAL MUSCLE ACTIN

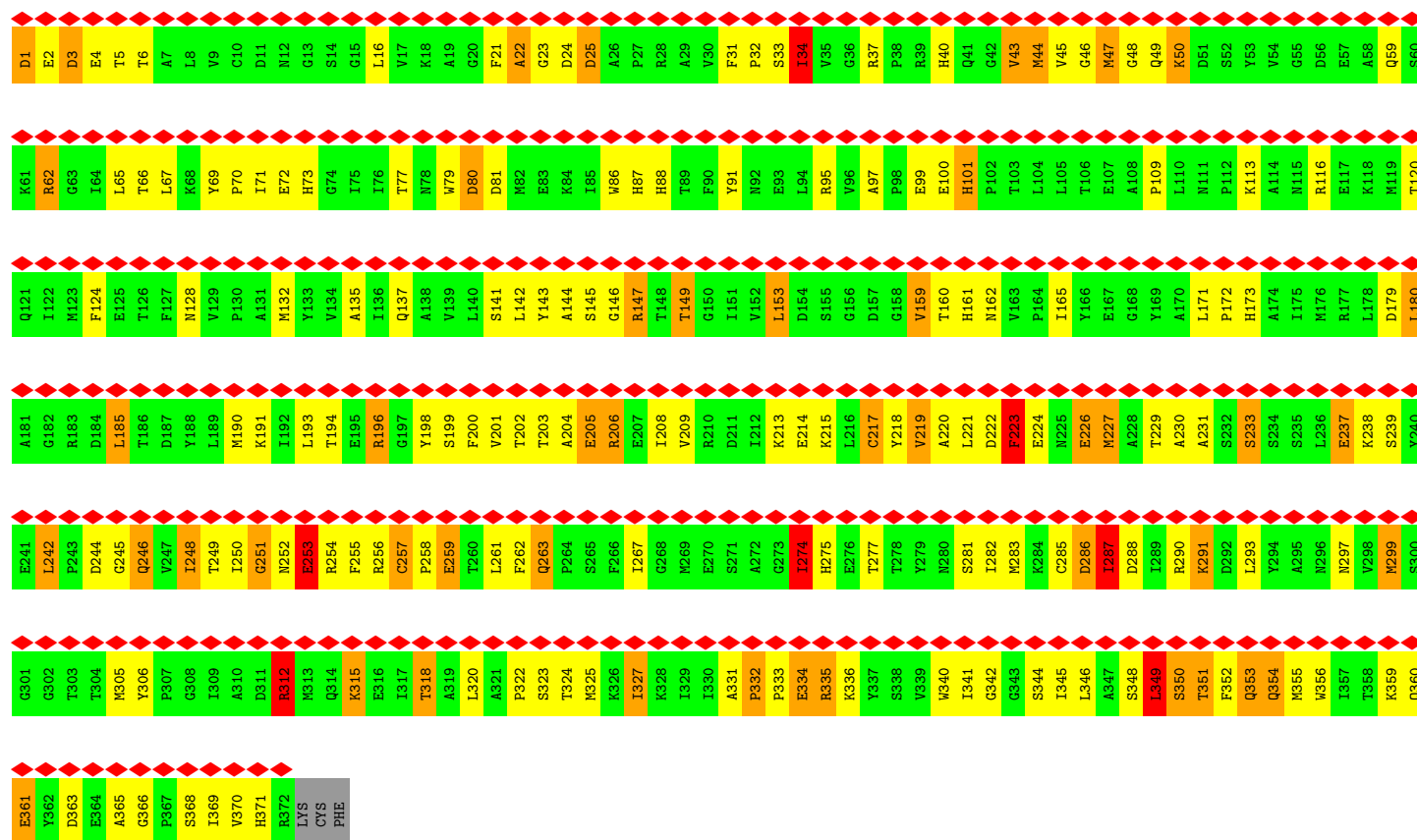


• Molecule 4: SKELETAL MUSCLE ACTIN

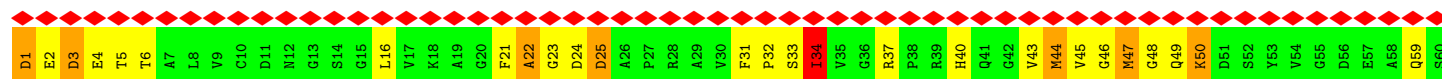


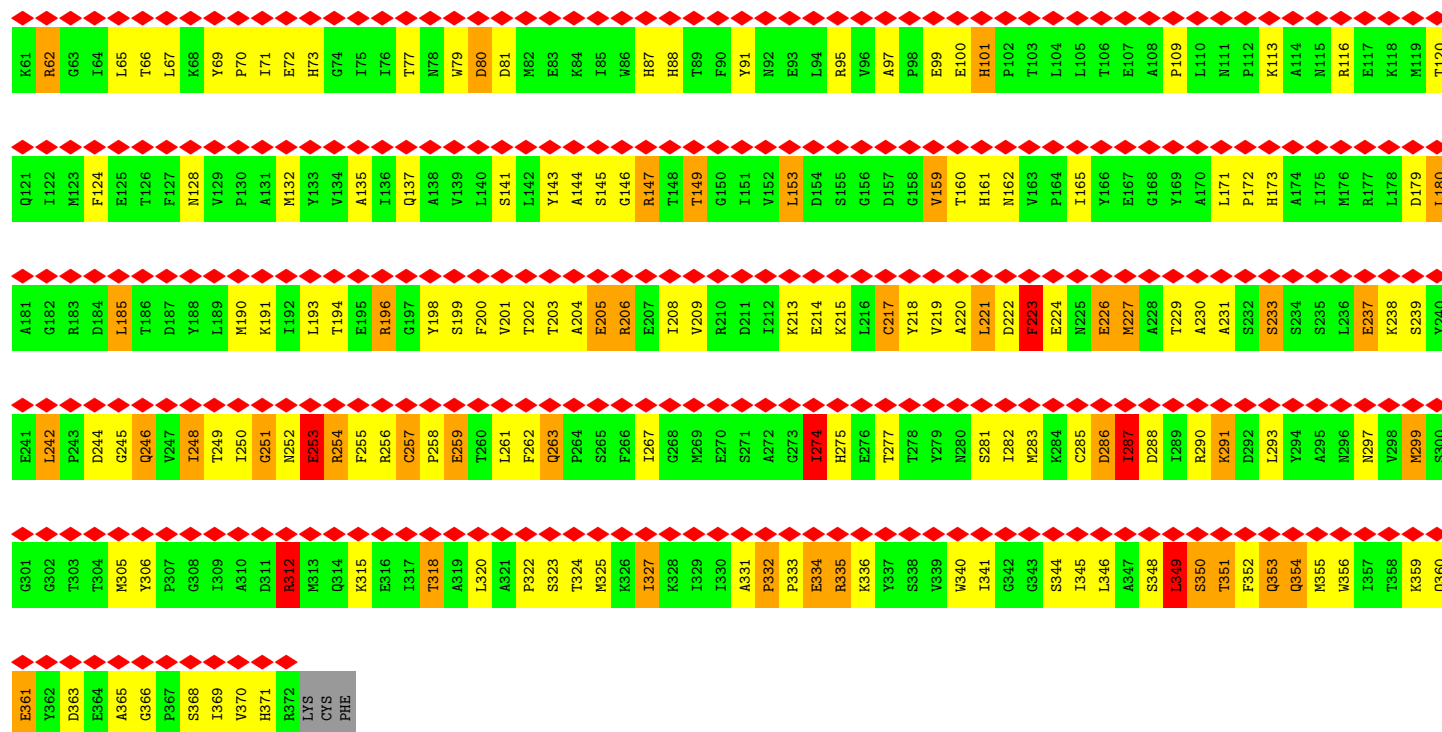


• Molecule 4: SKELETAL MUSCLE ACTIN

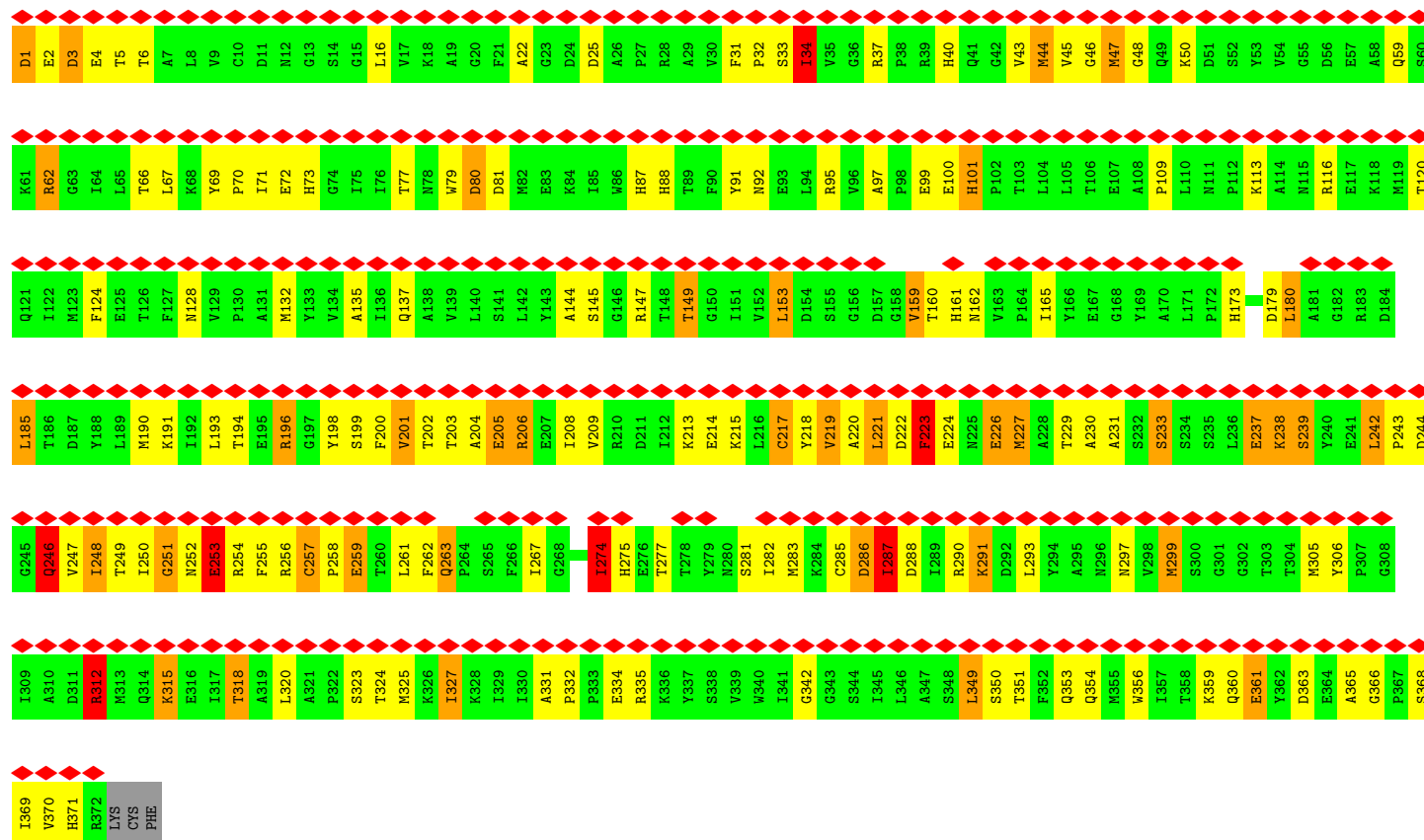


• Molecule 4: SKELETAL MUSCLE ACTIN





• Molecule 4: SKELETAL MUSCLE ACTIN



4 Experimental information

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 ($e^-/\text{\AA}^2$)	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 ($\text{\AA}$)	9280, 9280, 464	wwPDB
Tomogram dimensions	600, 600, 30	wwPDB
Tomogram angles ($^\circ$)	90, 90, 90	wwPDB
Grid spacing ($\text{\AA}$)	15.4667, 15.4667, 15.4667	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.84	39/6448 (0.6%)	2.12	153/8729 (1.8%)
1	D	1.84	37/6448 (0.6%)	2.13	150/8729 (1.7%)
1	G	1.85	41/6449 (0.6%)	2.13	157/8732 (1.8%)
1	J	1.87	43/6449 (0.7%)	2.22	153/8732 (1.8%)
1	M	1.85	42/6447 (0.7%)	2.14	152/8726 (1.7%)
1	S	1.86	42/6446 (0.7%)	2.16	150/8723 (1.7%)
2	B	1.38	15/1148 (1.3%)	1.47	21/1548 (1.4%)
2	E	1.35	15/1148 (1.3%)	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	T	1.37	16/1148 (1.4%)	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	0.88	4/1136 (0.4%)	1.18	6/1525 (0.4%)
3	O	0.88	4/1136 (0.4%)	1.18	5/1525 (0.3%)
3	U	0.87	4/1136 (0.4%)	1.18	5/1525 (0.3%)
4	1	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	2	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
4	3	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	4	1.17	13/2968 (0.4%)	2.00	97/4023 (2.4%)
4	5	1.17	13/2968 (0.4%)	2.00	101/4023 (2.5%)
4	6	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	7	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	8	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	9	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	V	1.17	13/2968 (0.4%)	2.00	100/4023 (2.5%)
4	W	1.17	12/2968 (0.4%)	2.00	99/4023 (2.5%)
4	X	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)
4	Y	1.17	13/2968 (0.4%)	2.00	98/4023 (2.4%)
4	Z	1.17	13/2968 (0.4%)	2.00	99/4023 (2.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
All	All	1.49	542/93943 (0.6%)	1.99	2455/127131 (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	5
1	J	1	6
1	M	1	7
1	S	1	7
2	B	0	3
2	E	0	3
2	H	0	3
2	K	0	3
2	N	0	3
2	T	0	3
3	C	0	2
3	F	0	2
3	I	0	2
3	L	0	2
3	O	0	2
3	U	0	2
4	1	0	1
4	2	0	1
4	3	0	1
4	4	0	1
4	5	0	1
4	6	0	1
4	7	0	1
4	8	0	1
4	9	0	1
4	V	0	1
4	W	0	1
4	X	0	1
4	Y	0	1
4	Z	0	1
All	All	6	77

All (542) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	648	THR	CB-OG1	42.70	2.12	1.43
1	J	648	THR	CB-OG1	42.69	2.12	1.43
1	M	648	THR	CB-OG1	42.66	2.12	1.43
1	S	648	THR	CB-OG1	42.64	2.12	1.43
1	A	648	THR	CB-OG1	42.60	2.12	1.43
1	D	648	THR	CB-OG1	42.59	2.12	1.43
1	D	623	PHE	CB-CG	35.89	2.33	1.50
1	G	623	PHE	CB-CG	35.89	2.33	1.50
1	J	623	PHE	CB-CG	35.88	2.33	1.50
1	S	623	PHE	CB-CG	35.86	2.33	1.50
1	M	623	PHE	CB-CG	35.86	2.33	1.50
1	A	623	PHE	CB-CG	35.85	2.33	1.50
1	J	649	VAL	CB-CG1	34.03	2.64	1.52
1	S	649	VAL	CB-CG1	34.01	2.64	1.52
1	M	649	VAL	CB-CG1	33.99	2.64	1.52
1	G	649	VAL	CB-CG1	33.99	2.64	1.52
1	D	649	VAL	CB-CG1	33.96	2.64	1.52
1	A	649	VAL	CB-CG1	33.95	2.64	1.52
1	S	648	THR	CB-CG2	-30.77	0.51	1.52
1	M	648	THR	CB-CG2	-30.76	0.51	1.52
1	J	648	THR	CB-CG2	-30.76	0.51	1.52
1	A	648	THR	CB-CG2	-30.75	0.51	1.52
1	G	648	THR	CB-CG2	-30.71	0.51	1.52
1	D	648	THR	CB-CG2	-30.70	0.51	1.52
1	A	649	VAL	CB-CG2	29.53	2.50	1.52
1	G	649	VAL	CB-CG2	29.51	2.50	1.52
1	J	649	VAL	CB-CG2	29.50	2.49	1.52
1	S	649	VAL	CB-CG2	29.48	2.49	1.52
1	M	649	VAL	CB-CG2	29.46	2.49	1.52
1	D	649	VAL	CB-CG2	29.43	2.49	1.52
1	G	649	VAL	C-N	-21.92	1.02	1.33
1	A	649	VAL	C-N	-21.88	1.03	1.33
1	D	649	VAL	C-N	-21.84	1.03	1.33
1	M	649	VAL	C-N	-21.74	1.03	1.33
1	S	649	VAL	C-N	-21.70	1.03	1.33
1	J	649	VAL	C-N	-21.62	1.03	1.33
1	J	709	LYS	C-N	21.34	1.64	1.33
2	E	140	PHE	C-N	-20.16	1.09	1.33
2	B	140	PHE	C-N	-20.11	1.09	1.33
2	N	140	PHE	C-N	-20.03	1.09	1.33
2	K	140	PHE	C-N	-20.03	1.09	1.33
2	T	140	PHE	C-N	-19.98	1.09	1.33
1	S	769	ALA	C-N	19.87	1.62	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	140	PHE	C-N	-19.83	1.09	1.33
1	S	637	LYS	C-N	-18.86	1.05	1.33
1	M	637	LYS	C-N	-18.84	1.05	1.33
1	J	637	LYS	C-N	-18.79	1.06	1.33
1	D	637	LYS	C-N	-18.76	1.06	1.33
1	A	637	LYS	C-N	-18.57	1.06	1.33
1	G	637	LYS	C-N	-18.49	1.06	1.33
1	J	785	GLU	C-N	15.14	1.54	1.33
1	A	622	LEU	C-N	13.15	1.54	1.33
1	M	622	LEU	C-N	13.15	1.54	1.33
1	J	622	LEU	C-N	13.14	1.54	1.33
1	S	622	LEU	C-N	13.10	1.54	1.33
1	D	622	LEU	C-N	13.01	1.53	1.33
1	G	622	LEU	C-N	12.95	1.53	1.33
1	S	785	GLU	C-N	-11.70	1.17	1.33
2	B	150	TYR	CA-CB	-11.48	1.35	1.53
2	N	150	TYR	CA-CB	-11.47	1.35	1.53
1	G	785	GLU	C-N	11.46	1.49	1.33
2	K	150	TYR	CA-CB	-11.46	1.35	1.53
2	H	150	TYR	CA-CB	-11.43	1.35	1.53
2	T	150	TYR	CA-CB	-11.41	1.35	1.53
1	M	709	LYS	C-N	11.11	1.49	1.33
2	B	150	TYR	N-CA	-10.92	1.33	1.46
1	A	201	ALA	CA-C	-10.90	1.47	1.53
1	D	201	ALA	CA-C	-10.90	1.47	1.53
2	T	150	TYR	N-CA	-10.76	1.33	1.46
2	H	150	TYR	N-CA	-10.75	1.33	1.46
2	N	150	TYR	N-CA	-10.69	1.33	1.46
2	K	150	TYR	N-CA	-10.64	1.34	1.46
1	J	201	ALA	CA-C	-10.63	1.47	1.53
2	K	141	PRO	N-CD	-10.50	1.33	1.47
2	N	141	PRO	N-CD	-10.48	1.33	1.47
1	M	201	ALA	CA-C	-10.48	1.47	1.53
2	T	141	PRO	N-CD	-10.47	1.33	1.47
1	S	201	ALA	CA-C	-10.41	1.47	1.53
2	B	141	PRO	N-CD	-10.41	1.33	1.47
1	G	201	ALA	CA-C	-10.41	1.47	1.53
2	E	141	PRO	N-CD	-10.36	1.33	1.47
2	H	141	PRO	N-CD	-10.30	1.33	1.47
2	E	150	TYR	CA-CB	-10.23	1.36	1.53
2	E	150	TYR	N-CA	-9.40	1.34	1.46
2	H	150	TYR	CB-CG	-9.12	1.31	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	T	150	TYR	CB-CG	-9.08	1.31	1.51
2	K	150	TYR	CB-CG	-9.07	1.31	1.51
2	E	150	TYR	CB-CG	-9.07	1.31	1.51
2	N	150	TYR	CB-CG	-9.06	1.31	1.51
2	B	150	TYR	CB-CG	-9.04	1.31	1.51
2	K	131	GLU	N-CA	8.67	1.57	1.46
2	T	131	GLU	N-CA	8.57	1.57	1.46
1	D	218	LEU	C-N	-8.56	1.21	1.33
1	A	218	LEU	C-N	-8.54	1.21	1.33
1	J	218	LEU	C-N	-8.54	1.21	1.33
2	N	131	GLU	N-CA	8.52	1.57	1.46
1	M	218	LEU	C-N	-8.52	1.21	1.33
2	H	131	GLU	N-CA	8.49	1.57	1.46
1	S	218	LEU	C-N	-8.47	1.21	1.33
1	G	218	LEU	C-N	-8.46	1.21	1.33
2	E	131	GLU	N-CA	8.44	1.57	1.46
2	B	131	GLU	N-CA	8.43	1.57	1.46
2	B	149	ASP	C-N	-8.10	1.23	1.33
2	N	149	ASP	C-N	-8.07	1.23	1.33
2	H	149	ASP	C-N	-8.04	1.23	1.33
2	K	149	ASP	C-N	-8.03	1.23	1.33
2	T	149	ASP	C-N	-7.99	1.23	1.33
1	G	218	LEU	CB-CG	7.98	1.69	1.53
1	D	218	LEU	CB-CG	7.84	1.69	1.53
1	J	218	LEU	CB-CG	7.78	1.69	1.53
1	S	218	LEU	CB-CG	7.74	1.69	1.53
1	A	218	LEU	CB-CG	7.73	1.69	1.53
1	M	218	LEU	CB-CG	7.73	1.69	1.53
2	B	140	PHE	CA-C	-7.52	1.43	1.52
4	5	101	HIS	CD2-NE2	-7.52	1.29	1.37
4	V	101	HIS	CD2-NE2	-7.47	1.29	1.37
4	2	101	HIS	CD2-NE2	-7.43	1.29	1.37
4	6	101	HIS	CD2-NE2	-7.42	1.29	1.37
4	X	101	HIS	CD2-NE2	-7.41	1.29	1.37
4	3	101	HIS	CD2-NE2	-7.40	1.29	1.37
4	Y	101	HIS	CD2-NE2	-7.39	1.29	1.37
4	7	88	HIS	CD2-NE2	-7.38	1.29	1.37
4	8	101	HIS	CD2-NE2	-7.37	1.29	1.37
4	Z	101	HIS	CD2-NE2	-7.36	1.29	1.37
2	H	140	PHE	CA-C	-7.36	1.43	1.52
4	2	88	HIS	CD2-NE2	-7.35	1.29	1.37
4	W	101	HIS	CD2-NE2	-7.35	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	1	101	HIS	CD2-NE2	-7.35	1.29	1.37
4	4	101	HIS	CD2-NE2	-7.34	1.29	1.37
3	F	63	ILE	CA-CB	7.34	1.66	1.55
2	K	140	PHE	CA-C	-7.34	1.43	1.52
3	C	63	ILE	CA-CB	7.33	1.66	1.55
4	3	88	HIS	CD2-NE2	-7.33	1.29	1.37
4	9	88	HIS	CD2-NE2	-7.33	1.29	1.37
4	6	88	HIS	CD2-NE2	-7.32	1.29	1.37
3	L	63	ILE	CA-CB	7.31	1.66	1.55
4	8	88	HIS	CD2-NE2	-7.31	1.29	1.37
4	V	88	HIS	CD2-NE2	-7.30	1.29	1.37
4	7	101	HIS	CD2-NE2	-7.30	1.29	1.37
4	9	101	HIS	CD2-NE2	-7.30	1.29	1.37
3	O	63	ILE	CA-CB	7.29	1.66	1.55
4	W	88	HIS	CD2-NE2	-7.29	1.29	1.37
4	1	88	HIS	CD2-NE2	-7.29	1.29	1.37
2	E	149	ASP	C-N	-7.28	1.23	1.33
4	Y	88	HIS	CD2-NE2	-7.28	1.29	1.37
4	X	88	HIS	CD2-NE2	-7.28	1.29	1.37
4	5	87	HIS	CD2-NE2	-7.28	1.29	1.37
4	4	88	HIS	CD2-NE2	-7.27	1.29	1.37
2	N	140	PHE	CA-C	-7.27	1.43	1.52
4	5	88	HIS	CD2-NE2	-7.27	1.29	1.37
2	T	140	PHE	CA-C	-7.26	1.43	1.52
4	Z	88	HIS	CD2-NE2	-7.26	1.29	1.37
4	6	87	HIS	CD2-NE2	-7.26	1.29	1.37
4	Z	87	HIS	CD2-NE2	-7.26	1.29	1.37
3	U	63	ILE	CA-CB	7.25	1.66	1.55
1	S	496	PHE	C-N	-7.23	1.24	1.33
4	V	87	HIS	CD2-NE2	-7.23	1.29	1.37
2	E	140	PHE	CA-C	-7.23	1.43	1.52
4	8	87	HIS	CD2-NE2	-7.23	1.29	1.37
4	3	87	HIS	CD2-NE2	-7.22	1.29	1.37
4	4	87	HIS	CD2-NE2	-7.22	1.29	1.37
1	J	496	PHE	C-N	-7.22	1.24	1.33
4	W	87	HIS	CD2-NE2	-7.22	1.29	1.37
4	7	87	HIS	CD2-NE2	-7.22	1.29	1.37
1	D	496	PHE	C-N	-7.21	1.24	1.33
4	X	275	HIS	CD2-NE2	-7.20	1.29	1.37
4	7	275	HIS	CD2-NE2	-7.19	1.29	1.37
4	Y	275	HIS	CD2-NE2	-7.18	1.29	1.37
4	X	87	HIS	CD2-NE2	-7.18	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	63	ILE	CA-CB	7.18	1.66	1.55
4	V	275	HIS	CD2-NE2	-7.18	1.29	1.37
4	W	275	HIS	CD2-NE2	-7.18	1.29	1.37
4	5	275	HIS	CD2-NE2	-7.17	1.29	1.37
4	6	275	HIS	CD2-NE2	-7.17	1.29	1.37
1	A	496	PHE	C-N	-7.16	1.25	1.33
4	2	275	HIS	CD2-NE2	-7.15	1.29	1.37
1	M	496	PHE	C-N	-7.15	1.25	1.33
4	Z	275	HIS	CD2-NE2	-7.15	1.29	1.37
4	4	275	HIS	CD2-NE2	-7.14	1.30	1.37
4	1	275	HIS	CD2-NE2	-7.13	1.30	1.37
4	2	87	HIS	CD2-NE2	-7.13	1.30	1.37
4	1	87	HIS	CD2-NE2	-7.12	1.30	1.37
4	9	275	HIS	CD2-NE2	-7.11	1.30	1.37
2	B	150	TYR	CG-CD2	-7.10	1.24	1.39
4	Y	40	HIS	CD2-NE2	-7.10	1.30	1.37
1	G	496	PHE	C-N	-7.09	1.25	1.33
4	Y	87	HIS	CD2-NE2	-7.08	1.30	1.37
4	9	87	HIS	CD2-NE2	-7.07	1.30	1.37
4	X	40	HIS	CD2-NE2	-7.07	1.30	1.37
4	8	40	HIS	CD2-NE2	-7.07	1.30	1.37
4	Z	40	HIS	CD2-NE2	-7.06	1.30	1.37
4	6	40	HIS	CD2-NE2	-7.06	1.30	1.37
4	3	275	HIS	CD2-NE2	-7.06	1.30	1.37
2	K	150	TYR	CG-CD2	-7.05	1.24	1.39
2	T	150	TYR	CG-CD2	-7.03	1.24	1.39
2	H	150	TYR	CG-CD2	-7.03	1.24	1.39
2	N	150	TYR	CG-CD2	-7.01	1.24	1.39
4	1	40	HIS	CD2-NE2	-7.00	1.30	1.37
2	T	141	PRO	CA-CB	-6.99	1.44	1.54
2	E	150	TYR	CG-CD2	-6.98	1.24	1.39
4	4	40	HIS	CD2-NE2	-6.97	1.30	1.37
2	T	138	ALA	C-N	-6.96	1.23	1.33
4	3	40	HIS	CD2-NE2	-6.96	1.30	1.37
4	8	275	HIS	CD2-NE2	-6.96	1.30	1.37
4	2	40	HIS	CD2-NE2	-6.96	1.30	1.37
4	7	40	HIS	CD2-NE2	-6.96	1.30	1.37
2	H	138	ALA	C-N	-6.95	1.23	1.33
2	B	141	PRO	CA-CB	-6.95	1.44	1.54
4	V	40	HIS	CD2-NE2	-6.95	1.30	1.37
2	E	141	PRO	CA-CB	-6.94	1.44	1.54
2	H	141	PRO	CA-CB	-6.94	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	5	40	HIS	CD2-NE2	-6.93	1.30	1.37
2	K	141	PRO	CA-CB	-6.93	1.44	1.54
2	N	138	ALA	C-N	-6.92	1.23	1.33
2	N	141	PRO	CA-CB	-6.92	1.44	1.54
4	W	40	HIS	CD2-NE2	-6.92	1.30	1.37
1	G	288	PHE	CA-C	-6.91	1.44	1.52
4	9	40	HIS	CD2-NE2	-6.87	1.30	1.37
2	K	138	ALA	C-N	-6.87	1.23	1.33
1	S	288	PHE	CA-C	-6.86	1.44	1.52
2	N	140	PHE	C-O	-6.84	1.15	1.24
2	K	140	PHE	C-O	-6.83	1.15	1.24
2	B	138	ALA	C-N	-6.83	1.23	1.33
2	B	140	PHE	C-O	-6.83	1.15	1.24
1	D	288	PHE	CA-C	-6.83	1.44	1.52
2	E	138	ALA	C-N	-6.82	1.23	1.33
1	D	177	ILE	C-O	-6.80	1.16	1.24
1	D	641	LYS	C-N	-6.79	1.25	1.34
2	T	140	PHE	C-O	-6.78	1.15	1.24
1	A	288	PHE	CA-C	-6.77	1.44	1.52
2	H	140	PHE	C-O	-6.77	1.15	1.24
1	G	177	ILE	C-O	-6.74	1.16	1.24
1	A	177	ILE	C-O	-6.74	1.16	1.24
1	J	288	PHE	CA-C	-6.72	1.44	1.52
1	G	637	LYS	C-O	6.71	1.32	1.24
1	M	288	PHE	CA-C	-6.70	1.44	1.52
1	A	637	LYS	C-O	6.69	1.32	1.24
1	J	568	PRO	CA-C	-6.66	1.44	1.52
1	J	177	ILE	C-O	-6.65	1.16	1.24
1	M	568	PRO	CA-C	-6.64	1.44	1.52
4	1	371	HIS	CD2-NE2	-6.64	1.30	1.37
1	M	177	ILE	C-O	-6.64	1.16	1.24
1	S	568	PRO	CA-C	-6.63	1.44	1.52
4	8	371	HIS	CD2-NE2	-6.63	1.30	1.37
2	E	140	PHE	C-O	-6.62	1.15	1.24
4	Z	371	HIS	CD2-NE2	-6.59	1.30	1.37
1	M	637	LYS	C-O	6.58	1.32	1.24
1	J	637	LYS	C-O	6.58	1.32	1.24
1	S	641	LYS	C-N	-6.58	1.25	1.34
4	W	371	HIS	CD2-NE2	-6.57	1.30	1.37
1	S	637	LYS	C-O	6.57	1.32	1.24
1	G	568	PRO	CA-C	-6.55	1.44	1.52
1	S	177	ILE	C-O	-6.55	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	641	LYS	C-N	-6.55	1.25	1.34
1	D	568	PRO	CA-C	-6.54	1.44	1.52
1	A	496	PHE	C-O	-6.54	1.16	1.24
1	G	201	ALA	C-N	-6.53	1.24	1.33
1	A	523	ILE	CA-CB	-6.53	1.46	1.54
4	2	371	HIS	CD2-NE2	-6.53	1.30	1.37
4	3	371	HIS	CD2-NE2	-6.53	1.30	1.37
4	9	371	HIS	CD2-NE2	-6.52	1.30	1.37
4	Y	371	HIS	CD2-NE2	-6.52	1.30	1.37
4	5	371	HIS	CD2-NE2	-6.52	1.30	1.37
4	7	371	HIS	CD2-NE2	-6.52	1.30	1.37
1	G	641	LYS	C-N	-6.51	1.25	1.34
4	X	371	HIS	CD2-NE2	-6.51	1.30	1.37
1	D	637	LYS	C-O	6.50	1.32	1.24
1	G	496	PHE	C-O	-6.49	1.16	1.24
1	M	641	LYS	C-N	-6.49	1.25	1.34
4	V	371	HIS	CD2-NE2	-6.49	1.30	1.37
4	6	88	HIS	CG-ND1	-6.46	1.31	1.38
4	Z	101	HIS	CG-ND1	-6.46	1.31	1.38
1	A	568	PRO	CA-C	-6.45	1.44	1.52
4	X	88	HIS	CG-ND1	-6.44	1.31	1.38
4	1	101	HIS	CG-ND1	-6.44	1.31	1.38
1	D	523	ILE	CA-CB	-6.43	1.46	1.54
4	Y	101	HIS	CG-ND1	-6.43	1.31	1.38
1	J	641	LYS	C-N	-6.42	1.25	1.34
4	Y	88	HIS	CG-ND1	-6.42	1.31	1.38
4	W	88	HIS	CG-ND1	-6.42	1.31	1.38
4	4	371	HIS	CD2-NE2	-6.42	1.30	1.37
1	M	201	ALA	C-N	-6.42	1.24	1.33
4	V	101	HIS	CG-ND1	-6.41	1.31	1.38
1	J	201	ALA	C-N	-6.41	1.24	1.33
1	D	201	ALA	C-N	-6.41	1.24	1.33
4	7	101	HIS	CG-ND1	-6.41	1.31	1.38
4	4	101	HIS	CG-ND1	-6.41	1.31	1.38
4	8	88	HIS	CG-ND1	-6.41	1.31	1.38
4	9	88	HIS	CG-ND1	-6.41	1.31	1.38
1	G	523	ILE	CA-CB	-6.40	1.47	1.54
4	3	88	HIS	CG-ND1	-6.40	1.31	1.38
4	W	101	HIS	CG-ND1	-6.40	1.31	1.38
4	5	101	HIS	CG-ND1	-6.40	1.31	1.38
1	S	201	ALA	C-N	-6.39	1.24	1.33
4	6	371	HIS	CD2-NE2	-6.39	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	2	88	HIS	CG-ND1	-6.39	1.31	1.38
4	7	88	HIS	CG-ND1	-6.38	1.31	1.38
4	6	101	HIS	CG-ND1	-6.38	1.31	1.38
4	Z	88	HIS	CG-ND1	-6.38	1.31	1.38
4	V	88	HIS	CG-ND1	-6.38	1.31	1.38
4	5	88	HIS	CG-ND1	-6.37	1.31	1.38
4	4	88	HIS	CG-ND1	-6.37	1.31	1.38
1	D	496	PHE	C-O	-6.37	1.16	1.24
4	1	88	HIS	CG-ND1	-6.36	1.31	1.38
1	S	496	PHE	C-O	-6.35	1.16	1.24
2	N	123	THR	C-N	-6.34	1.24	1.33
1	S	523	ILE	CA-CB	-6.33	1.47	1.54
3	I	62	ALA	C-N	-6.33	1.26	1.33
4	X	101	HIS	CG-ND1	-6.32	1.31	1.38
2	T	123	THR	C-N	-6.32	1.24	1.33
2	B	123	THR	C-N	-6.32	1.24	1.33
1	J	496	PHE	C-O	-6.31	1.16	1.24
4	3	101	HIS	CG-ND1	-6.31	1.31	1.38
4	8	101	HIS	CG-ND1	-6.31	1.31	1.38
2	K	123	THR	C-N	-6.30	1.24	1.33
1	M	496	PHE	C-O	-6.30	1.16	1.24
3	C	62	ALA	C-N	-6.29	1.26	1.33
4	2	101	HIS	CG-ND1	-6.29	1.31	1.38
4	9	101	HIS	CG-ND1	-6.27	1.31	1.38
1	J	523	ILE	CA-CB	-6.26	1.47	1.54
1	A	201	ALA	C-N	-6.24	1.25	1.33
2	E	123	THR	C-N	-6.24	1.24	1.33
3	O	62	ALA	C-N	-6.21	1.26	1.33
2	H	123	THR	C-N	-6.18	1.24	1.33
1	M	523	ILE	CA-CB	-6.18	1.47	1.54
3	L	62	ALA	C-N	-6.17	1.26	1.33
3	U	62	ALA	C-N	-6.15	1.26	1.33
3	F	62	ALA	C-N	-6.11	1.26	1.33
3	O	63	ILE	CB-CG1	6.11	1.65	1.53
3	U	63	ILE	CB-CG1	6.05	1.65	1.53
3	L	64	THR	N-CA	-6.04	1.38	1.45
3	L	63	ILE	CB-CG1	6.04	1.65	1.53
3	C	64	THR	N-CA	-6.04	1.38	1.46
3	F	63	ILE	CB-CG1	6.04	1.65	1.53
3	C	63	ILE	CB-CG1	6.03	1.65	1.53
3	I	64	THR	N-CA	-6.03	1.38	1.46
3	U	64	THR	N-CA	-6.02	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	63	ILE	CB-CG1	6.00	1.65	1.53
3	O	64	THR	N-CA	-6.00	1.38	1.45
1	J	358	VAL	C-O	-5.98	1.17	1.24
1	S	358	VAL	C-O	-5.97	1.17	1.24
4	3	161	HIS	CD2-NE2	-5.96	1.31	1.37
1	M	358	VAL	C-O	-5.95	1.17	1.24
4	8	161	HIS	CD2-NE2	-5.95	1.31	1.37
4	5	173	HIS	CD2-NE2	-5.94	1.31	1.37
3	F	64	THR	N-CA	-5.92	1.38	1.46
4	X	173	HIS	CD2-NE2	-5.92	1.31	1.37
4	9	161	HIS	CD2-NE2	-5.91	1.31	1.37
4	V	173	HIS	CD2-NE2	-5.89	1.31	1.37
4	6	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	X	161	HIS	CD2-NE2	-5.88	1.31	1.37
4	Y	173	HIS	CD2-NE2	-5.87	1.31	1.37
1	G	358	VAL	C-O	-5.87	1.17	1.24
4	5	161	HIS	CD2-NE2	-5.86	1.31	1.37
4	8	173	HIS	CD2-NE2	-5.85	1.31	1.37
4	4	161	HIS	CD2-NE2	-5.84	1.31	1.37
4	1	173	HIS	CD2-NE2	-5.83	1.31	1.37
4	2	161	HIS	CD2-NE2	-5.83	1.31	1.37
1	J	514	ASP	C-O	-5.83	1.17	1.23
4	W	173	HIS	CD2-NE2	-5.83	1.31	1.37
4	V	161	HIS	CD2-NE2	-5.83	1.31	1.37
4	Z	161	HIS	CD2-NE2	-5.83	1.31	1.37
1	A	514	ASP	C-O	-5.82	1.17	1.23
4	2	173	HIS	CD2-NE2	-5.82	1.31	1.37
4	7	173	HIS	CD2-NE2	-5.81	1.31	1.37
4	3	173	HIS	CD2-NE2	-5.81	1.31	1.37
1	A	358	VAL	C-O	-5.80	1.17	1.24
4	W	161	HIS	CD2-NE2	-5.79	1.31	1.37
4	Z	173	HIS	CD2-NE2	-5.78	1.31	1.37
1	D	358	VAL	C-O	-5.78	1.17	1.24
4	9	173	HIS	CD2-NE2	-5.77	1.31	1.37
1	A	434	TYR	CA-CB	-5.76	1.44	1.53
4	4	173	HIS	CD2-NE2	-5.76	1.31	1.37
4	1	161	HIS	CD2-NE2	-5.76	1.31	1.37
1	J	434	TYR	CA-CB	-5.76	1.44	1.53
4	Y	161	HIS	CD2-NE2	-5.75	1.31	1.37
1	G	514	ASP	C-O	-5.74	1.17	1.23
1	M	514	ASP	C-O	-5.74	1.17	1.23
4	6	173	HIS	CD2-NE2	-5.74	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	514	ASP	C-O	-5.74	1.17	1.23
4	7	161	HIS	CD2-NE2	-5.74	1.31	1.37
1	D	514	ASP	C-O	-5.72	1.17	1.23
1	D	217	THR	N-CA	5.70	1.53	1.45
1	S	217	THR	N-CA	5.70	1.53	1.45
1	G	434	TYR	CA-CB	-5.70	1.44	1.53
1	S	434	TYR	CA-CB	-5.69	1.44	1.53
1	M	434	TYR	CA-CB	-5.69	1.44	1.53
1	J	578	HIS	N-CA	5.67	1.53	1.46
1	J	217	THR	N-CA	5.66	1.53	1.45
1	A	217	THR	N-CA	5.66	1.53	1.45
1	A	625	THR	CB-CG2	5.65	1.71	1.52
1	J	625	THR	CB-CG2	5.64	1.71	1.52
1	M	625	THR	CB-CG2	5.64	1.71	1.52
1	S	625	THR	CB-CG2	5.64	1.71	1.52
1	D	625	THR	CB-CG2	5.61	1.71	1.52
1	M	578	HIS	N-CA	5.61	1.53	1.46
1	D	233	GLY	C-O	-5.60	1.20	1.24
1	G	625	THR	CB-CG2	5.59	1.71	1.52
1	S	578	HIS	N-CA	5.57	1.53	1.46
1	D	434	TYR	CA-CB	-5.57	1.44	1.53
1	G	217	THR	N-CA	5.56	1.52	1.45
4	Z	275	HIS	CG-ND1	-5.55	1.32	1.38
4	6	275	HIS	CG-ND1	-5.55	1.32	1.38
4	2	275	HIS	CG-ND1	-5.54	1.32	1.38
1	M	217	THR	N-CA	5.53	1.52	1.45
4	9	275	HIS	CG-ND1	-5.53	1.32	1.38
4	X	275	HIS	CG-ND1	-5.51	1.32	1.38
4	1	275	HIS	CG-ND1	-5.51	1.32	1.38
1	G	641	LYS	C-O	5.50	1.31	1.24
4	3	275	HIS	CG-ND1	-5.49	1.32	1.38
4	7	275	HIS	CG-ND1	-5.49	1.32	1.38
1	D	578	HIS	N-CA	5.49	1.53	1.46
4	Y	275	HIS	CG-ND1	-5.49	1.32	1.38
1	G	233	GLY	C-O	-5.49	1.20	1.24
1	S	641	LYS	C-O	5.48	1.31	1.24
4	W	275	HIS	CG-ND1	-5.48	1.32	1.38
4	5	275	HIS	CG-ND1	-5.48	1.32	1.38
4	V	275	HIS	CG-ND1	-5.48	1.32	1.38
4	8	275	HIS	CG-ND1	-5.48	1.32	1.38
1	A	578	HIS	N-CA	5.47	1.53	1.46
4	4	275	HIS	CG-ND1	-5.47	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	641	LYS	C-O	5.46	1.31	1.24
1	J	641	LYS	C-O	5.46	1.31	1.24
1	D	641	LYS	C-O	5.45	1.31	1.24
1	M	340	ILE	CA-C	-5.42	1.45	1.52
1	G	578	HIS	N-CA	5.42	1.53	1.46
1	A	641	LYS	C-O	5.40	1.30	1.24
2	E	129	THR	N-CA	5.39	1.53	1.46
1	J	340	ILE	CA-C	-5.39	1.45	1.52
1	G	340	ILE	CA-C	-5.38	1.45	1.52
1	S	233	GLY	C-O	-5.38	1.20	1.24
1	D	340	ILE	CA-C	-5.38	1.45	1.52
1	J	233	GLY	C-O	-5.37	1.20	1.24
1	G	671	PHE	C-O	-5.34	1.17	1.23
2	T	129	THR	N-CA	5.34	1.53	1.46
1	S	340	ILE	CA-C	-5.34	1.45	1.52
1	J	476	GLU	CD-OE1	5.32	1.35	1.25
1	S	252	ILE	CA-C	-5.32	1.46	1.52
1	M	482	PHE	C-O	-5.31	1.18	1.24
1	M	476	GLU	CD-OE1	5.31	1.35	1.25
1	D	104	TYR	C-O	-5.30	1.17	1.24
2	K	129	THR	N-CA	5.30	1.53	1.46
1	S	476	GLU	CD-OE1	5.29	1.35	1.25
1	G	104	TYR	C-O	-5.28	1.17	1.24
1	J	252	ILE	CA-C	-5.28	1.46	1.52
4	7	259	GLU	CA-CB	5.26	1.62	1.53
4	Y	259	GLU	CA-CB	5.26	1.62	1.53
2	B	129	THR	N-CA	5.25	1.53	1.46
4	8	259	GLU	CA-CB	5.24	1.62	1.53
1	D	252	ILE	CA-C	-5.24	1.46	1.52
1	D	476	GLU	CD-OE1	5.24	1.35	1.25
1	A	233	GLY	C-O	-5.23	1.20	1.24
1	G	482	PHE	C-O	-5.23	1.18	1.24
1	M	233	GLY	C-O	-5.23	1.20	1.24
4	3	259	GLU	CA-CB	5.22	1.62	1.53
1	J	157	SER	CA-C	-5.22	1.46	1.52
1	M	252	ILE	CA-C	-5.22	1.46	1.52
4	X	259	GLU	CA-CB	5.21	1.62	1.53
1	G	476	GLU	CD-OE1	5.21	1.35	1.25
1	S	104	TYR	C-O	-5.20	1.17	1.24
1	J	104	TYR	C-O	-5.20	1.17	1.24
4	6	259	GLU	CA-CB	5.20	1.62	1.53
4	5	259	GLU	CA-CB	5.20	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	Z	259	GLU	CA-CB	5.20	1.62	1.53
1	A	671	PHE	C-O	-5.19	1.17	1.23
2	N	129	THR	N-CA	5.19	1.53	1.46
1	J	482	PHE	C-O	-5.19	1.18	1.24
1	S	157	SER	CA-C	-5.19	1.46	1.52
1	A	476	GLU	CD-OE1	5.19	1.35	1.25
2	B	137	TRP	NE1-CE2	-5.19	1.31	1.37
1	G	309	PRO	CA-CB	-5.18	1.46	1.53
1	M	104	TYR	C-O	-5.18	1.17	1.24
4	V	259	GLU	CA-CB	5.18	1.62	1.53
4	W	259	GLU	CA-CB	5.18	1.62	1.53
1	A	482	PHE	C-O	-5.18	1.18	1.24
2	H	129	THR	N-CA	5.18	1.53	1.46
1	S	671	PHE	C-O	-5.18	1.17	1.23
1	S	482	PHE	C-O	-5.17	1.18	1.24
1	S	644	SER	C-O	5.17	1.30	1.24
4	2	259	GLU	CA-CB	5.17	1.62	1.53
1	G	252	ILE	CA-C	-5.16	1.47	1.52
1	J	309	PRO	CA-CB	-5.16	1.46	1.53
4	5	214	GLU	CA-CB	5.16	1.61	1.53
1	S	177	ILE	CA-CB	-5.16	1.48	1.54
1	D	619	LEU	CA-C	-5.16	1.46	1.52
4	4	259	GLU	CA-CB	5.16	1.62	1.53
1	M	671	PHE	C-O	-5.15	1.17	1.23
4	1	259	GLU	CA-CB	5.15	1.62	1.53
1	A	340	ILE	CA-C	-5.15	1.45	1.52
4	7	214	GLU	CA-CB	5.14	1.61	1.53
4	9	259	GLU	CA-CB	5.14	1.62	1.53
1	A	252	ILE	CA-C	-5.14	1.47	1.52
1	M	644	SER	C-O	5.14	1.30	1.24
1	D	671	PHE	C-O	-5.13	1.17	1.23
1	M	157	SER	CA-C	-5.13	1.46	1.52
1	S	202	SER	CB-OG	5.13	1.52	1.42
4	8	214	GLU	CA-CB	5.13	1.61	1.53
4	Y	214	GLU	CA-CB	5.13	1.61	1.53
1	D	482	PHE	C-O	-5.12	1.18	1.24
4	9	214	GLU	CA-CB	5.12	1.61	1.53
1	G	619	LEU	CA-C	-5.11	1.46	1.52
1	D	309	PRO	CA-CB	-5.11	1.46	1.53
2	N	137	TRP	NE1-CE2	-5.11	1.31	1.37
1	A	766	PHE	N-CA	-5.11	1.39	1.46
1	M	41	VAL	CA-CB	-5.11	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	149	ASP	CA-C	-5.11	1.46	1.53
4	2	214	GLU	CA-CB	5.11	1.61	1.53
4	4	214	GLU	CA-CB	5.10	1.61	1.53
1	A	309	PRO	CA-CB	-5.10	1.46	1.53
4	6	214	GLU	CA-CB	5.10	1.61	1.53
1	J	202	SER	CB-OG	5.10	1.52	1.42
2	E	137	TRP	NE1-CE2	-5.09	1.31	1.37
1	A	619	LEU	CA-C	-5.09	1.46	1.52
1	J	671	PHE	C-O	-5.09	1.17	1.23
1	A	202	SER	CB-OG	5.09	1.52	1.42
1	S	309	PRO	CA-CB	-5.09	1.46	1.53
1	A	41	VAL	CA-CB	-5.09	1.49	1.54
2	K	149	ASP	CA-C	-5.08	1.46	1.53
4	X	214	GLU	CA-CB	5.08	1.61	1.53
4	1	214	GLU	CA-CB	5.08	1.61	1.53
1	D	202	SER	CB-OG	5.08	1.52	1.42
1	G	644	SER	C-O	5.07	1.30	1.24
4	Z	214	GLU	CA-CB	5.07	1.61	1.53
1	G	202	SER	CB-OG	5.06	1.52	1.42
1	G	177	ILE	CA-CB	-5.06	1.48	1.54
2	K	137	TRP	NE1-CE2	-5.06	1.31	1.37
1	M	309	PRO	CA-CB	-5.06	1.46	1.53
4	3	214	GLU	CA-CB	5.06	1.61	1.53
1	M	672	VAL	C-O	-5.06	1.18	1.24
1	M	619	LEU	CA-C	-5.05	1.46	1.52
1	A	177	ILE	CA-CB	-5.05	1.48	1.54
2	T	149	ASP	CA-C	-5.05	1.46	1.53
4	V	214	GLU	CA-CB	5.05	1.61	1.53
2	T	137	TRP	NE1-CE2	-5.04	1.31	1.37
1	M	202	SER	CB-OG	5.04	1.52	1.42
2	H	130	PRO	C-N	5.03	1.40	1.33
1	J	766	PHE	N-CA	-5.03	1.39	1.46
1	J	277	PHE	CA-C	-5.02	1.46	1.52
1	J	644	SER	C-O	5.02	1.30	1.24
1	J	619	LEU	CA-C	-5.01	1.46	1.52
1	G	269	LEU	C-O	-5.01	1.17	1.24
1	S	619	LEU	CA-C	-5.01	1.46	1.52

All (2455) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	637	LYS	O-C-N	-74.35	23.70	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
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	S	637	LYS	O-C-N	-74.28	23.80	122.59
1	J	637	LYS	O-C-N	-74.27	23.81	122.59
1	A	637	LYS	O-C-N	-74.24	23.86	122.59
1	J	709	LYS	O-C-N	-58.25	56.73	122.55
1	J	648	THR	CA-CB-OG1	-44.81	42.39	109.60
1	S	648	THR	CA-CB-OG1	-44.79	42.41	109.60
1	M	648	THR	CA-CB-OG1	-44.79	42.41	109.60
1	G	648	THR	CA-CB-OG1	-44.77	42.44	109.60
1	A	648	THR	CA-CB-OG1	-44.77	42.45	109.60
1	D	648	THR	CA-CB-OG1	-44.76	42.45	109.60
1	S	785	GLU	O-C-N	-33.09	84.48	122.20
1	J	623	PHE	CA-CB-CG	-29.34	84.46	113.80
1	M	623	PHE	CA-CB-CG	-29.34	84.46	113.80
1	S	623	PHE	CA-CB-CG	-29.32	84.48	113.80
1	A	623	PHE	CA-CB-CG	-29.30	84.50	113.80
1	D	623	PHE	CA-CB-CG	-29.27	84.53	113.80
1	G	623	PHE	CA-CB-CG	-29.19	84.61	113.80
1	G	649	VAL	CA-CB-CG1	-24.87	68.12	110.40
1	D	649	VAL	CA-CB-CG1	-24.85	68.16	110.40
1	J	649	VAL	CA-CB-CG1	-24.84	68.17	110.40
1	M	649	VAL	CA-CB-CG1	-24.82	68.20	110.40
1	S	649	VAL	CA-CB-CG1	-24.81	68.22	110.40
1	A	649	VAL	CA-CB-CG1	-24.80	68.24	110.40
1	J	649	VAL	CG1-CB-CG2	-24.69	56.48	110.80
1	D	649	VAL	CG1-CB-CG2	-24.68	56.49	110.80
1	M	649	VAL	CG1-CB-CG2	-24.68	56.50	110.80
1	A	649	VAL	CG1-CB-CG2	-24.68	56.51	110.80
1	G	649	VAL	CG1-CB-CG2	-24.67	56.52	110.80
1	S	649	VAL	CG1-CB-CG2	-24.67	56.52	110.80
1	G	649	VAL	CA-CB-CG2	-24.57	68.63	110.40
1	D	649	VAL	CA-CB-CG2	-24.55	68.67	110.40
1	J	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	A	649	VAL	CA-CB-CG2	-24.54	68.67	110.40
1	S	649	VAL	CA-CB-CG2	-24.51	68.73	110.40
1	M	709	LYS	O-C-N	-20.77	89.70	121.89
1	S	648	THR	CA-CB-CG2	-19.98	76.53	110.50
1	M	648	THR	CA-CB-CG2	-19.96	76.56	110.50
1	J	648	THR	CA-CB-CG2	-19.94	76.59	110.50
1	D	648	THR	CA-CB-CG2	-19.92	76.64	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	648	THR	CA-CB-CG2	-19.83	76.79	110.50
1	G	648	THR	CA-CB-CG2	-19.76	76.90	110.50
1	D	728	ASN	O-C-N	16.22	138.24	122.18
1	J	728	ASN	O-C-N	16.19	138.21	122.18
1	M	728	ASN	O-C-N	16.17	138.19	122.18
1	A	728	ASN	O-C-N	16.09	138.11	122.18
1	G	728	ASN	O-C-N	16.04	138.06	122.18
1	S	728	ASN	O-C-N	16.03	138.05	122.18
3	C	63	ILE	O-C-N	14.22	138.32	122.82
3	O	63	ILE	O-C-N	14.20	138.29	122.82
2	K	150	TYR	CD1-CG-CD2	14.17	139.35	118.10
2	T	150	TYR	CD1-CG-CD2	14.16	139.34	118.10
2	H	150	TYR	CD1-CG-CD2	14.16	139.34	118.10
3	I	63	ILE	O-C-N	14.15	138.25	122.82
3	L	63	ILE	O-C-N	14.15	138.25	122.82
3	U	63	ILE	O-C-N	14.15	138.25	122.82
3	F	63	ILE	O-C-N	14.15	138.24	122.82
2	N	150	TYR	CD1-CG-CD2	14.14	139.32	118.10
2	E	150	TYR	CD1-CG-CD2	14.13	139.30	118.10
2	B	150	TYR	CD1-CG-CD2	14.10	139.25	118.10
1	D	568	PRO	O-C-N	13.55	139.81	123.01
1	G	568	PRO	O-C-N	13.54	139.80	123.01
1	A	568	PRO	O-C-N	13.52	139.78	123.01
1	J	568	PRO	O-C-N	13.48	139.73	123.01
1	M	568	PRO	O-C-N	13.45	139.69	123.01
1	S	568	PRO	O-C-N	13.39	139.61	123.01
1	J	98	HIS	CB-CA-C	-11.89	87.21	111.22
1	M	98	HIS	CB-CA-C	-11.89	87.21	111.22
1	S	98	HIS	CB-CA-C	-11.86	87.27	111.22
1	G	98	HIS	CB-CA-C	-11.85	87.29	111.22
1	D	98	HIS	CB-CA-C	-11.84	87.31	111.22
1	A	98	HIS	CB-CA-C	-11.83	87.32	111.22
2	E	150	TYR	CB-CG-CD2	-11.34	103.80	120.80
2	H	150	TYR	CB-CG-CD2	-11.32	103.81	120.80
2	T	150	TYR	CB-CG-CD2	-11.32	103.82	120.80
2	K	150	TYR	CB-CG-CD2	-11.30	103.84	120.80
2	B	150	TYR	CB-CG-CD2	-11.29	103.87	120.80
2	N	150	TYR	CB-CG-CD2	-11.28	103.88	120.80
1	A	201	ALA	CA-C-O	11.09	125.31	118.33
1	J	201	ALA	CA-C-O	11.07	125.30	118.33
2	H	150	TYR	CG-CD2-CE2	-11.07	104.60	121.20
1	S	201	ALA	CA-C-O	11.02	125.27	118.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	201	ALA	CA-C-O	11.00	125.26	118.33
2	T	150	TYR	CG-CD2-CE2	-10.94	104.79	121.20
2	E	150	TYR	CG-CD2-CE2	-10.93	104.81	121.20
2	N	150	TYR	CG-CD2-CE2	-10.92	104.82	121.20
1	D	201	ALA	CA-C-O	10.90	125.20	118.33
2	K	150	TYR	CG-CD2-CE2	-10.90	104.85	121.20
2	B	150	TYR	CG-CD2-CE2	-10.89	104.87	121.20
1	G	201	ALA	CA-C-O	10.87	125.18	118.33
1	G	320	ILE	CB-CA-C	-10.62	100.50	110.91
1	J	320	ILE	CB-CA-C	-10.52	100.60	110.91
1	M	320	ILE	CB-CA-C	-10.50	100.62	110.91
1	S	320	ILE	CB-CA-C	-10.49	100.63	110.91
1	D	320	ILE	CB-CA-C	-10.48	100.64	110.91
1	A	320	ILE	CB-CA-C	-10.38	100.73	110.91
2	N	150	TYR	N-CA-CB	-10.27	93.72	110.77
1	A	739	ASP	CA-CB-CG	-10.26	102.34	112.60
2	T	150	TYR	N-CA-CB	-10.26	93.74	110.77
2	K	150	TYR	N-CA-CB	-10.24	93.78	110.77
2	H	150	TYR	N-CA-CB	-10.22	93.80	110.77
1	A	653	PHE	CA-CB-CG	-10.22	103.58	113.80
2	B	150	TYR	N-CA-CB	-10.22	93.81	110.77
1	G	653	PHE	CA-CB-CG	-10.20	103.60	113.80
1	J	653	PHE	CA-CB-CG	-10.20	103.60	113.80
1	S	739	ASP	CA-CB-CG	-10.20	102.40	112.60
1	M	739	ASP	CA-CB-CG	-10.19	102.41	112.60
1	M	653	PHE	CA-CB-CG	-10.19	103.61	113.80
1	D	653	PHE	CA-CB-CG	-10.16	103.64	113.80
1	D	739	ASP	CA-CB-CG	-10.13	102.47	112.60
1	J	739	ASP	CA-CB-CG	-10.13	102.47	112.60
1	S	653	PHE	CA-CB-CG	-10.12	103.68	113.80
2	E	141	PRO	CA-N-CD	10.06	126.09	112.00
1	G	739	ASP	CA-CB-CG	-10.06	102.54	112.60
2	H	141	PRO	CA-N-CD	10.04	126.06	112.00
2	T	141	PRO	CA-N-CD	10.02	126.03	112.00
2	K	141	PRO	CA-N-CD	10.01	126.02	112.00
2	N	141	PRO	CA-N-CD	9.97	125.96	112.00
2	E	150	TYR	N-CA-CB	-9.95	93.68	110.49
2	B	141	PRO	CA-N-CD	9.91	125.87	112.00
2	E	150	TYR	CG-CD1-CE1	-9.83	106.46	121.20
2	H	150	TYR	CG-CD1-CE1	-9.80	106.50	121.20
1	G	693	HIS	CA-CB-CG	-9.79	104.01	113.80
2	T	150	TYR	CG-CD1-CE1	-9.79	106.52	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	150	TYR	CG-CD1-CE1	-9.78	106.54	121.20
1	S	693	HIS	CA-CB-CG	-9.76	104.04	113.80
2	N	150	TYR	CG-CD1-CE1	-9.74	106.59	121.20
1	J	693	HIS	CA-CB-CG	-9.72	104.08	113.80
1	M	693	HIS	CA-CB-CG	-9.70	104.10	113.80
2	B	150	TYR	CG-CD1-CE1	-9.70	106.66	121.20
1	D	693	HIS	CA-CB-CG	-9.70	104.11	113.80
1	A	693	HIS	CA-CB-CG	-9.58	104.22	113.80
2	E	138	ALA	O-C-N	-9.41	108.69	122.43
4	4	147	ARG	N-CA-C	9.41	123.33	110.35
4	V	147	ARG	N-CA-C	9.41	123.33	110.35
4	Z	147	ARG	N-CA-C	9.41	123.33	110.35
4	W	147	ARG	N-CA-C	9.40	123.33	110.35
4	8	147	ARG	N-CA-C	9.40	123.32	110.35
4	6	147	ARG	N-CA-C	9.40	123.32	110.35
1	J	604	ASN	CA-CB-CG	9.39	121.99	112.60
1	S	604	ASN	CA-CB-CG	9.38	121.98	112.60
4	9	147	ARG	N-CA-C	9.38	123.30	110.35
4	3	147	ARG	N-CA-C	9.38	123.30	110.35
2	T	138	ALA	O-C-N	-9.38	108.74	122.43
4	7	147	ARG	N-CA-C	9.38	123.29	110.35
4	X	147	ARG	N-CA-C	9.38	123.29	110.35
4	Y	147	ARG	N-CA-C	9.38	123.29	110.35
1	G	604	ASN	CA-CB-CG	9.37	121.97	112.60
4	2	147	ARG	N-CA-C	9.36	123.27	110.35
4	5	147	ARG	N-CA-C	9.36	123.26	110.35
1	M	604	ASN	CA-CB-CG	9.35	121.95	112.60
2	H	138	ALA	O-C-N	-9.35	108.79	122.43
2	K	138	ALA	O-C-N	-9.34	108.79	122.43
2	N	138	ALA	O-C-N	-9.33	108.81	122.43
4	1	147	ARG	N-CA-C	9.32	123.22	110.35
1	D	604	ASN	CA-CB-CG	9.32	121.92	112.60
2	B	138	ALA	O-C-N	-9.32	108.82	122.43
1	A	604	ASN	CA-CB-CG	9.32	121.92	112.60
4	6	3	ASP	CA-CB-CG	9.28	121.88	112.60
4	5	3	ASP	CA-CB-CG	9.27	121.87	112.60
4	4	3	ASP	CA-CB-CG	9.26	121.86	112.60
4	3	3	ASP	CA-CB-CG	9.25	121.85	112.60
4	2	3	ASP	CA-CB-CG	9.25	121.85	112.60
4	Z	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	W	3	ASP	CA-CB-CG	9.23	121.83	112.60
4	X	3	ASP	CA-CB-CG	9.22	121.82	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8	3	ASP	CA-CB-CG	9.22	121.82	112.60
4	1	3	ASP	CA-CB-CG	9.21	121.81	112.60
4	7	3	ASP	CA-CB-CG	9.19	121.79	112.60
4	9	3	ASP	CA-CB-CG	9.17	121.77	112.60
4	Y	3	ASP	CA-CB-CG	9.17	121.77	112.60
4	V	3	ASP	CA-CB-CG	9.11	121.71	112.60
1	J	709	LYS	CA-C-N	-9.10	103.58	121.41
1	J	709	LYS	C-N-CA	-9.10	103.58	121.41
4	6	179	ASP	CA-CB-CG	8.85	121.44	112.60
4	V	179	ASP	CA-CB-CG	8.84	121.44	112.60
4	9	179	ASP	CA-CB-CG	8.83	121.43	112.60
1	A	264	ASP	CB-CA-C	-8.82	100.50	111.43
1	S	264	ASP	CB-CA-C	-8.81	100.50	111.43
4	W	179	ASP	CA-CB-CG	8.81	121.41	112.60
1	M	264	ASP	CB-CA-C	-8.81	100.51	111.43
1	J	264	ASP	CB-CA-C	-8.80	100.51	111.43
4	3	179	ASP	CA-CB-CG	8.79	121.39	112.60
4	Z	179	ASP	CA-CB-CG	8.79	121.39	112.60
4	4	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	7	179	ASP	CA-CB-CG	8.77	121.37	112.60
4	Y	179	ASP	CA-CB-CG	8.77	121.37	112.60
4	1	179	ASP	CA-CB-CG	8.76	121.36	112.60
4	X	179	ASP	CA-CB-CG	8.76	121.36	112.60
4	2	179	ASP	CA-CB-CG	8.75	121.35	112.60
4	5	179	ASP	CA-CB-CG	8.73	121.33	112.60
1	G	264	ASP	CB-CA-C	-8.73	100.61	111.43
1	D	264	ASP	CB-CA-C	-8.71	100.64	111.43
1	S	752	ASP	CA-CB-CG	8.70	121.30	112.60
1	J	752	ASP	CA-CB-CG	8.67	121.27	112.60
1	M	752	ASP	CA-CB-CG	8.65	121.25	112.60
1	D	752	ASP	CA-CB-CG	8.62	121.22	112.60
1	G	752	ASP	CA-CB-CG	8.61	121.21	112.60
1	D	784	ALA	N-CA-C	-8.57	101.89	111.07
1	A	752	ASP	CA-CB-CG	8.47	121.08	112.60
1	J	264	ASP	N-CA-CB	-8.40	97.92	110.86
1	A	752	ASP	CB-CA-C	8.38	121.53	111.22
1	M	264	ASP	N-CA-CB	-8.38	97.95	110.86
1	M	219	GLU	N-CA-C	-8.37	92.98	110.80
1	S	264	ASP	N-CA-CB	-8.36	97.99	110.86
1	D	264	ASP	N-CA-CB	-8.34	98.02	110.86
1	S	219	GLU	N-CA-C	-8.34	93.04	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	219	GLU	N-CA-C	-8.33	93.06	110.80
1	G	219	GLU	N-CA-C	-8.33	93.06	110.80
1	A	264	ASP	N-CA-CB	-8.32	98.04	110.86
1	D	752	ASP	CB-CA-C	8.32	121.45	111.22
1	J	141	LEU	CB-CA-C	-8.31	97.77	110.90
1	G	709	LYS	CA-C-N	8.31	137.70	121.41
1	G	709	LYS	C-N-CA	8.31	137.70	121.41
1	J	752	ASP	CB-CA-C	8.30	121.42	111.22
1	M	752	ASP	CB-CA-C	8.30	121.42	111.22
1	G	264	ASP	N-CA-CB	-8.30	98.08	110.86
1	S	141	LEU	CB-CA-C	-8.29	97.79	110.90
1	S	752	ASP	CB-CA-C	8.29	121.42	111.22
1	G	756	THR	N-CA-CB	-8.29	97.62	110.39
1	A	219	GLU	N-CA-C	-8.29	93.15	110.80
1	M	141	LEU	CB-CA-C	-8.29	97.81	110.90
1	S	756	THR	N-CA-CB	-8.29	97.63	110.39
1	G	141	LEU	CB-CA-C	-8.28	97.81	110.90
1	D	141	LEU	CB-CA-C	-8.27	97.84	110.90
1	D	219	GLU	N-CA-C	-8.26	93.20	110.80
1	G	752	ASP	CB-CA-C	8.26	121.38	111.22
1	D	756	THR	N-CA-CB	-8.26	97.67	110.39
1	M	756	THR	N-CA-CB	-8.25	97.69	110.39
1	A	315	VAL	N-CA-C	8.24	120.00	112.17
1	D	315	VAL	N-CA-C	8.23	119.99	112.17
1	J	756	THR	N-CA-CB	-8.23	97.72	110.39
1	S	75	ASP	N-CA-CB	8.23	122.97	110.79
1	A	75	ASP	N-CA-CB	8.22	122.96	110.79
1	G	75	ASP	N-CA-CB	8.22	122.95	110.79
1	J	75	ASP	N-CA-CB	8.22	122.95	110.79
1	G	315	VAL	N-CA-C	8.22	119.98	112.17
1	A	756	THR	N-CA-CB	-8.19	97.78	110.39
1	A	141	LEU	CB-CA-C	-8.18	97.98	110.90
1	S	315	VAL	N-CA-C	8.18	119.94	112.17
1	S	785	GLU	CA-C-N	8.16	136.66	121.97
1	S	785	GLU	C-N-CA	8.16	136.66	121.97
1	M	75	ASP	N-CA-CB	8.14	122.84	110.79
1	J	315	VAL	N-CA-C	8.12	119.88	112.17
1	D	75	ASP	N-CA-CB	8.10	122.78	110.79
1	G	625	THR	CA-CB-OG1	8.10	121.75	109.60
1	J	625	THR	CA-CB-OG1	8.08	121.72	109.60
1	M	315	VAL	N-CA-C	8.05	119.82	112.17
1	S	625	THR	CA-CB-OG1	8.05	121.67	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	625	THR	CA-CB-OG1	8.04	121.66	109.60
1	D	625	THR	CA-CB-OG1	8.03	121.64	109.60
1	M	800	ARG	NE-CZ-NH2	-8.02	111.98	119.20
4	6	363	ASP	CA-CB-CG	8.01	120.61	112.60
1	A	625	THR	CA-CB-OG1	8.01	121.62	109.60
4	W	363	ASP	CA-CB-CG	8.00	120.59	112.60
4	X	363	ASP	CA-CB-CG	7.99	120.59	112.60
4	7	363	ASP	CA-CB-CG	7.99	120.58	112.60
4	9	363	ASP	CA-CB-CG	7.99	120.59	112.60
4	Y	363	ASP	CA-CB-CG	7.98	120.58	112.60
1	D	800	ARG	NE-CZ-NH2	-7.97	112.02	119.20
4	2	363	ASP	CA-CB-CG	7.97	120.57	112.60
1	D	641	LYS	CA-C-N	7.97	132.02	120.38
1	D	641	LYS	C-N-CA	7.97	132.02	120.38
1	J	800	ARG	NE-CZ-NH2	-7.96	112.03	119.20
4	1	363	ASP	CA-CB-CG	7.96	120.56	112.60
4	5	363	ASP	CA-CB-CG	7.95	120.55	112.60
4	3	363	ASP	CA-CB-CG	7.95	120.55	112.60
4	4	363	ASP	CA-CB-CG	7.95	120.55	112.60
4	Z	363	ASP	CA-CB-CG	7.94	120.54	112.60
4	V	128	ASN	CA-CB-CG	7.93	120.53	112.60
4	V	363	ASP	CA-CB-CG	7.93	120.53	112.60
4	3	128	ASN	CA-CB-CG	7.92	120.52	112.60
4	8	363	ASP	CA-CB-CG	7.91	120.51	112.60
1	J	473	ASN	CA-CB-CG	-7.91	104.69	112.60
4	6	128	ASN	CA-CB-CG	7.90	120.50	112.60
4	7	128	ASN	CA-CB-CG	7.90	120.50	112.60
4	8	128	ASN	CA-CB-CG	7.90	120.50	112.60
4	1	128	ASN	CA-CB-CG	7.90	120.50	112.60
4	Y	286	ASP	CA-CB-CG	7.90	120.50	112.60
4	4	128	ASN	CA-CB-CG	7.89	120.49	112.60
4	6	286	ASP	CA-CB-CG	7.89	120.49	112.60
1	G	473	ASN	CA-CB-CG	-7.89	104.71	112.60
1	S	473	ASN	CA-CB-CG	-7.89	104.71	112.60
4	2	128	ASN	CA-CB-CG	7.89	120.49	112.60
4	V	286	ASP	CA-CB-CG	7.88	120.48	112.60
1	A	473	ASN	CA-CB-CG	-7.88	104.72	112.60
4	7	286	ASP	CA-CB-CG	7.88	120.48	112.60
1	D	473	ASN	CA-CB-CG	-7.88	104.72	112.60
4	X	128	ASN	CA-CB-CG	7.87	120.47	112.60
1	J	547	ASP	N-CA-C	-7.87	102.65	111.07
1	S	800	ARG	NE-CZ-NH2	-7.87	112.12	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8	286	ASP	CA-CB-CG	7.87	120.47	112.60
4	Z	286	ASP	CA-CB-CG	7.87	120.47	112.60
2	N	129	THR	CB-CA-C	-7.87	94.68	110.17
4	Z	128	ASN	CA-CB-CG	7.86	120.46	112.60
1	G	547	ASP	N-CA-C	-7.85	102.67	111.07
4	9	128	ASN	CA-CB-CG	7.85	120.45	112.60
4	Y	128	ASN	CA-CB-CG	7.85	120.45	112.60
4	X	286	ASP	CA-CB-CG	7.84	120.44	112.60
1	D	547	ASP	N-CA-C	-7.84	102.68	111.07
4	3	286	ASP	CA-CB-CG	7.83	120.44	112.60
1	A	547	ASP	N-CA-C	-7.83	102.69	111.07
4	5	128	ASN	CA-CB-CG	7.83	120.43	112.60
1	M	473	ASN	CA-CB-CG	-7.83	104.77	112.60
1	G	800	ARG	NE-CZ-NH2	-7.82	112.16	119.20
2	K	129	THR	CB-CA-C	-7.82	94.76	110.17
1	A	641	LYS	CA-C-N	7.82	131.80	120.38
1	A	641	LYS	C-N-CA	7.82	131.80	120.38
2	T	129	THR	CB-CA-C	-7.82	94.76	110.17
1	S	641	LYS	CA-C-N	7.82	131.80	120.38
1	S	641	LYS	C-N-CA	7.82	131.80	120.38
4	1	286	ASP	CA-CB-CG	7.82	120.42	112.60
4	W	286	ASP	CA-CB-CG	7.81	120.41	112.60
1	M	547	ASP	N-CA-C	-7.81	102.71	111.07
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
4	W	128	ASN	CA-CB-CG	7.81	120.41	112.60
4	4	286	ASP	CA-CB-CG	7.81	120.41	112.60
4	5	286	ASP	CA-CB-CG	7.80	120.40	112.60
4	2	286	ASP	CA-CB-CG	7.79	120.39	112.60
2	H	129	THR	CB-CA-C	-7.79	94.82	110.17
4	9	286	ASP	CA-CB-CG	7.79	120.39	112.60
1	J	641	LYS	CA-C-N	7.78	131.74	120.38
1	J	641	LYS	C-N-CA	7.78	131.74	120.38
1	G	641	LYS	CA-C-N	7.75	131.69	120.38
1	G	641	LYS	C-N-CA	7.75	131.69	120.38
1	J	784	ALA	N-CA-C	-7.74	101.82	111.11
4	Y	25	ASP	CA-CB-CG	7.74	120.34	112.60
2	B	129	THR	CB-CA-C	-7.73	94.95	110.17
1	A	800	ARG	NE-CZ-NH2	-7.72	112.25	119.20
2	E	129	THR	CB-CA-C	-7.72	94.95	110.17
1	S	547	ASP	N-CA-C	-7.72	102.81	111.07
1	M	784	ALA	N-CA-C	-7.72	101.85	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	784	ALA	N-CA-C	-7.71	101.86	111.11
4	1	25	ASP	CA-CB-CG	7.70	120.30	112.60
4	7	25	ASP	CA-CB-CG	7.68	120.28	112.60
4	W	25	ASP	CA-CB-CG	7.68	120.28	112.60
1	J	447	GLN	N-CA-CB	7.67	121.40	110.12
1	A	447	GLN	N-CA-CB	7.67	121.39	110.12
1	S	447	GLN	N-CA-CB	7.67	121.39	110.12
4	2	25	ASP	CA-CB-CG	7.67	120.27	112.60
2	B	149	ASP	N-CA-CB	7.67	120.96	110.38
4	V	25	ASP	CA-CB-CG	7.67	120.27	112.60
1	M	447	GLN	N-CA-CB	7.66	121.38	110.12
4	3	25	ASP	CA-CB-CG	7.66	120.26	112.60
4	8	360	GLN	N-CA-C	-7.66	102.62	110.97
3	F	62	ALA	CA-C-N	-7.66	112.48	122.51
3	F	62	ALA	C-N-CA	-7.66	112.48	122.51
4	4	25	ASP	CA-CB-CG	7.65	120.25	112.60
4	6	25	ASP	CA-CB-CG	7.65	120.25	112.60
4	8	25	ASP	CA-CB-CG	7.65	120.25	112.60
4	6	360	GLN	N-CA-C	-7.65	102.64	110.97
4	9	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	8	252	ASN	OD1-CG-ND2	-7.64	114.96	122.60
1	A	784	ALA	N-CA-C	-7.63	101.95	111.11
4	5	25	ASP	CA-CB-CG	7.63	120.23	112.60
1	G	447	GLN	N-CA-CB	7.63	121.34	110.12
1	D	447	GLN	N-CA-CB	7.63	121.33	110.12
2	H	149	ASP	N-CA-CB	7.62	120.90	110.38
4	X	25	ASP	CA-CB-CG	7.62	120.22	112.60
4	Y	223	PHE	CA-CB-CG	7.62	121.42	113.80
2	T	149	ASP	N-CA-CB	7.62	120.89	110.38
1	G	784	ALA	N-CA-C	-7.61	101.98	111.11
4	W	360	GLN	N-CA-C	-7.61	102.68	110.97
4	2	223	PHE	CA-CB-CG	7.60	121.40	113.80
1	D	202	SER	CB-CA-C	-7.60	95.30	110.42
4	Z	223	PHE	CA-CB-CG	7.60	121.40	113.80
4	7	223	PHE	CA-CB-CG	7.60	121.40	113.80
1	M	698	ASN	CB-CA-C	-7.59	98.04	110.79
4	9	360	GLN	N-CA-C	-7.59	102.70	110.97
1	A	202	SER	CB-CA-C	-7.59	95.32	110.42
4	4	360	GLN	N-CA-C	-7.59	102.70	110.97
4	2	360	GLN	N-CA-C	-7.58	102.70	110.97
4	9	252	ASN	OD1-CG-ND2	-7.58	115.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	698	ASN	CB-CA-C	-7.58	98.06	110.79
4	V	360	GLN	N-CA-C	-7.58	102.71	110.97
4	X	360	GLN	N-CA-C	-7.58	102.71	110.97
4	7	252	ASN	OD1-CG-ND2	-7.58	115.02	122.60
4	V	223	PHE	CA-CB-CG	7.58	121.38	113.80
1	M	202	SER	CB-CA-C	-7.58	95.35	110.42
4	5	360	GLN	N-CA-C	-7.58	102.71	110.97
2	E	149	ASP	N-CA-CB	7.57	120.83	110.38
4	3	223	PHE	CA-CB-CG	7.57	121.37	113.80
1	A	698	ASN	CB-CA-C	-7.57	98.08	110.79
1	J	202	SER	CB-CA-C	-7.57	95.36	110.42
4	4	252	ASN	OD1-CG-ND2	-7.57	115.03	122.60
4	Y	360	GLN	N-CA-C	-7.57	102.72	110.97
1	G	202	SER	CB-CA-C	-7.56	95.37	110.42
4	9	223	PHE	CA-CB-CG	7.56	121.36	113.80
4	W	223	PHE	CA-CB-CG	7.56	121.36	113.80
4	6	223	PHE	CA-CB-CG	7.56	121.36	113.80
2	N	149	ASP	N-CA-CB	7.55	120.80	110.38
4	Z	252	ASN	OD1-CG-ND2	-7.55	115.05	122.60
4	1	360	GLN	N-CA-C	-7.55	102.74	110.97
4	X	223	PHE	CA-CB-CG	7.55	121.35	113.80
4	Z	360	GLN	N-CA-C	-7.55	102.74	110.97
4	3	360	GLN	N-CA-C	-7.55	102.74	110.97
4	7	360	GLN	N-CA-C	-7.55	102.74	110.97
3	I	62	ALA	CA-C-N	-7.54	112.63	122.51
3	I	62	ALA	C-N-CA	-7.54	112.63	122.51
4	2	215	LYS	N-CA-C	7.54	119.29	111.14
4	4	215	LYS	N-CA-C	7.54	119.29	111.14
4	1	223	PHE	CA-CB-CG	7.53	121.33	113.80
1	J	698	ASN	CB-CA-C	-7.53	98.14	110.79
4	8	223	PHE	CA-CB-CG	7.53	121.33	113.80
4	1	252	ASN	OD1-CG-ND2	-7.53	115.07	122.60
4	5	223	PHE	CA-CB-CG	7.53	121.33	113.80
4	Z	62	ARG	N-CA-C	7.53	120.37	111.71
4	1	62	ARG	N-CA-C	7.53	120.36	111.71
4	9	215	LYS	N-CA-C	7.53	119.27	111.14
4	4	223	PHE	CA-CB-CG	7.52	121.32	113.80
4	W	173	HIS	CA-CB-CG	-7.52	106.28	113.80
1	S	202	SER	CB-CA-C	-7.52	95.45	110.42
4	Z	173	HIS	CA-CB-CG	-7.52	106.28	113.80
4	2	173	HIS	CA-CB-CG	-7.51	106.28	113.80
4	6	215	LYS	N-CA-C	7.51	119.25	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	252	ASN	OD1-CG-ND2	-7.51	115.09	122.60
4	1	215	LYS	N-CA-C	7.51	119.25	111.14
4	6	252	ASN	OD1-CG-ND2	-7.51	115.09	122.60
4	9	62	ARG	N-CA-C	7.51	120.34	111.71
4	6	62	ARG	N-CA-C	7.51	120.34	111.71
4	6	173	HIS	CA-CB-CG	-7.51	106.29	113.80
4	X	173	HIS	CA-CB-CG	-7.51	106.29	113.80
1	G	698	ASN	CB-CA-C	-7.50	98.18	110.79
4	5	215	LYS	N-CA-C	7.50	119.24	111.14
4	V	215	LYS	N-CA-C	7.50	119.24	111.14
1	D	698	ASN	CB-CA-C	-7.50	98.19	110.79
4	2	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	7	173	HIS	CA-CB-CG	-7.50	106.30	113.80
4	W	252	ASN	OD1-CG-ND2	-7.50	115.10	122.60
4	4	62	ARG	N-CA-C	7.50	120.33	111.71
4	5	252	ASN	OD1-CG-ND2	-7.49	115.11	122.60
2	B	140	PHE	O-C-N	-7.49	112.71	121.32
4	8	173	HIS	CA-CB-CG	-7.49	106.31	113.80
4	8	215	LYS	N-CA-C	7.49	119.22	111.14
2	K	149	ASP	N-CA-CB	7.48	120.71	110.38
4	3	173	HIS	CA-CB-CG	-7.48	106.32	113.80
4	7	62	ARG	N-CA-C	7.48	120.31	111.71
4	X	62	ARG	N-CA-C	7.48	120.31	111.71
4	Y	173	HIS	CA-CB-CG	-7.48	106.32	113.80
4	Y	215	LYS	N-CA-C	7.48	119.22	111.14
3	O	62	ALA	CA-C-N	-7.47	112.72	122.51
3	O	62	ALA	C-N-CA	-7.47	112.72	122.51
4	Y	252	ASN	OD1-CG-ND2	-7.47	115.13	122.60
4	Z	215	LYS	N-CA-C	7.47	119.21	111.14
2	K	141	PRO	N-CA-CB	-7.47	95.83	103.08
4	5	62	ARG	N-CA-C	7.47	120.30	111.71
4	3	215	LYS	N-CA-C	7.47	119.21	111.14
4	5	173	HIS	CA-CB-CG	-7.47	106.33	113.80
4	V	62	ARG	N-CA-C	7.47	120.30	111.71
3	U	62	ALA	CA-C-N	-7.47	112.73	122.51
3	U	62	ALA	C-N-CA	-7.47	112.73	122.51
4	W	62	ARG	N-CA-C	7.46	120.30	111.71
4	2	62	ARG	N-CA-C	7.46	120.29	111.71
2	N	141	PRO	N-CA-CB	-7.46	95.84	103.08
4	8	62	ARG	N-CA-C	7.46	120.29	111.71
4	Y	62	ARG	N-CA-C	7.46	120.29	111.71
4	V	173	HIS	CA-CB-CG	-7.46	106.34	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	215	LYS	N-CA-C	7.46	119.19	111.14
2	E	140	PHE	O-C-N	-7.46	112.75	121.32
2	T	141	PRO	N-CA-CB	-7.46	95.85	103.08
4	X	252	ASN	OD1-CG-ND2	-7.45	115.15	122.60
4	3	252	ASN	OD1-CG-ND2	-7.45	115.15	122.60
2	H	141	PRO	N-CA-CB	-7.44	95.86	103.08
2	E	141	PRO	N-CA-CB	-7.44	95.86	103.08
3	L	62	ALA	CA-C-N	-7.44	112.76	122.51
3	L	62	ALA	C-N-CA	-7.44	112.76	122.51
4	3	62	ARG	N-CA-C	7.44	120.27	111.71
4	7	215	LYS	N-CA-C	7.44	119.17	111.14
4	9	173	HIS	CA-CB-CG	-7.44	106.36	113.80
4	X	215	LYS	N-CA-C	7.42	119.16	111.14
2	H	140	PHE	O-C-N	-7.42	112.78	121.32
4	4	173	HIS	CA-CB-CG	-7.42	106.38	113.80
3	C	62	ALA	CA-C-N	-7.41	112.80	122.51
3	C	62	ALA	C-N-CA	-7.41	112.80	122.51
4	1	173	HIS	CA-CB-CG	-7.39	106.41	113.80
2	N	140	PHE	O-C-N	-7.35	112.87	121.32
2	B	141	PRO	N-CA-CB	-7.34	95.95	103.08
2	T	140	PHE	O-C-N	-7.34	112.88	121.32
4	Y	34	ILE	CA-CB-CG2	-7.33	98.05	110.50
4	8	34	ILE	CA-CB-CG2	-7.32	98.05	110.50
2	K	140	PHE	O-C-N	-7.32	112.90	121.32
4	3	34	ILE	CA-CB-CG2	-7.32	98.06	110.50
4	9	34	ILE	CA-CB-CG2	-7.32	98.06	110.50
4	W	34	ILE	CA-CB-CG2	-7.32	98.06	110.50
4	7	34	ILE	CA-CB-CG2	-7.31	98.07	110.50
1	D	506	GLU	CA-C-N	-7.30	112.55	122.63
1	D	506	GLU	C-N-CA	-7.30	112.55	122.63
1	D	76	GLN	N-CA-C	-7.29	102.67	113.61
4	5	34	ILE	CA-CB-CG2	-7.29	98.10	110.50
4	Z	34	ILE	CA-CB-CG2	-7.29	98.11	110.50
4	6	34	ILE	CA-CB-CG2	-7.29	98.11	110.50
4	V	34	ILE	CA-CB-CG2	-7.28	98.12	110.50
4	X	34	ILE	CA-CB-CG2	-7.28	98.13	110.50
4	1	34	ILE	CA-CB-CG2	-7.27	98.13	110.50
1	A	506	GLU	CA-C-N	-7.27	112.60	122.63
1	A	506	GLU	C-N-CA	-7.27	112.60	122.63
4	2	34	ILE	CA-CB-CG2	-7.27	98.14	110.50
4	3	159	VAL	CB-CA-C	-7.27	99.06	110.69
4	4	34	ILE	CA-CB-CG2	-7.27	98.15	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	159	VAL	CB-CA-C	-7.26	99.07	110.69
1	G	506	GLU	CA-C-N	-7.25	112.62	122.63
1	G	506	GLU	C-N-CA	-7.25	112.62	122.63
4	6	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	Y	159	VAL	CB-CA-C	-7.25	99.08	110.69
4	4	159	VAL	CB-CA-C	-7.25	99.09	110.69
4	7	159	VAL	CB-CA-C	-7.25	99.09	110.69
1	G	709	LYS	O-C-N	7.25	131.91	122.42
1	G	76	GLN	N-CA-C	-7.24	102.75	113.61
1	S	506	GLU	CA-C-N	-7.24	112.64	122.63
1	S	506	GLU	C-N-CA	-7.24	112.64	122.63
4	V	159	VAL	CB-CA-C	-7.24	99.11	110.69
4	9	159	VAL	CB-CA-C	-7.23	99.12	110.69
1	M	506	GLU	CA-C-N	-7.23	112.65	122.63
1	M	506	GLU	C-N-CA	-7.23	112.65	122.63
4	8	159	VAL	CB-CA-C	-7.23	99.12	110.69
1	J	506	GLU	CA-C-N	-7.22	112.66	122.63
1	J	506	GLU	C-N-CA	-7.22	112.66	122.63
4	W	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	5	159	VAL	CB-CA-C	-7.22	99.14	110.69
4	Z	159	VAL	CB-CA-C	-7.22	99.14	110.69
1	A	76	GLN	N-CA-C	-7.21	102.79	113.61
4	1	159	VAL	CB-CA-C	-7.21	99.15	110.69
1	M	76	GLN	N-CA-C	-7.21	102.79	113.61
1	J	76	GLN	N-CA-C	-7.21	102.80	113.61
4	7	323	SER	N-CA-C	7.21	121.71	112.34
4	2	159	VAL	CB-CA-C	-7.20	99.16	110.69
4	X	323	SER	N-CA-C	7.20	121.70	112.34
1	S	76	GLN	N-CA-C	-7.20	102.81	113.61
4	V	323	SER	N-CA-C	7.20	121.70	112.34
4	1	323	SER	N-CA-C	7.19	121.68	112.34
4	W	323	SER	N-CA-C	7.18	121.68	112.34
4	8	259	GLU	CB-CG-CD	7.18	124.81	112.60
1	M	625	THR	CA-CB-CG2	-7.17	98.30	110.50
4	3	259	GLU	CB-CG-CD	7.17	124.80	112.60
4	9	323	SER	N-CA-C	7.17	121.67	112.34
1	G	625	THR	CA-CB-CG2	-7.17	98.31	110.50
1	S	625	THR	CA-CB-CG2	-7.17	98.32	110.50
1	J	625	THR	CA-CB-CG2	-7.16	98.32	110.50
4	W	259	GLU	CB-CG-CD	7.16	124.78	112.60
4	9	259	GLU	CB-CG-CD	7.16	124.77	112.60
4	2	259	GLU	CB-CG-CD	7.16	124.77	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6	259	GLU	CB-CG-CD	7.16	124.77	112.60
4	4	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	X	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	Z	259	GLU	CB-CG-CD	7.15	124.76	112.60
4	3	323	SER	N-CA-C	7.15	121.63	112.34
4	V	259	GLU	CB-CG-CD	7.15	124.75	112.60
4	Y	323	SER	N-CA-C	7.14	121.63	112.34
1	A	625	THR	CA-CB-CG2	-7.14	98.36	110.50
1	S	652	LEU	O-C-N	7.14	130.40	122.11
4	1	259	GLU	CB-CG-CD	7.14	124.74	112.60
4	7	259	GLU	CB-CG-CD	7.14	124.73	112.60
4	5	323	SER	N-CA-C	7.13	121.61	112.34
4	6	323	SER	N-CA-C	7.13	121.61	112.34
4	5	259	GLU	CB-CG-CD	7.13	124.72	112.60
4	8	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	Z	323	SER	N-CA-C	7.13	121.61	112.34
4	V	69	TYR	CA-C-N	7.12	126.82	119.56
4	V	69	TYR	C-N-CA	7.12	126.82	119.56
4	4	323	SER	N-CA-C	7.11	121.59	112.34
4	2	323	SER	N-CA-C	7.11	121.58	112.34
1	D	625	THR	CA-CB-CG2	-7.11	98.41	110.50
1	M	709	LYS	CA-C-N	-7.11	107.48	121.41
1	M	709	LYS	C-N-CA	-7.11	107.48	121.41
1	J	652	LEU	O-C-N	7.08	130.32	122.11
4	3	69	TYR	CA-C-N	7.08	126.78	119.56
4	3	69	TYR	C-N-CA	7.08	126.78	119.56
4	V	73	HIS	CA-CB-CG	-7.05	106.75	113.80
4	Z	69	TYR	CA-C-N	7.04	126.74	119.56
4	Z	69	TYR	C-N-CA	7.04	126.74	119.56
4	1	73	HIS	CA-CB-CG	-7.04	106.76	113.80
4	9	69	TYR	CA-C-N	7.04	126.74	119.56
4	9	69	TYR	C-N-CA	7.04	126.74	119.56
4	1	69	TYR	CA-C-N	7.03	126.73	119.56
4	1	69	TYR	C-N-CA	7.03	126.73	119.56
1	M	652	LEU	O-C-N	7.03	130.27	122.11
4	8	69	TYR	CA-C-N	7.03	126.73	119.56
4	8	69	TYR	C-N-CA	7.03	126.73	119.56
1	G	652	LEU	O-C-N	7.01	130.25	122.11
4	X	69	TYR	CA-C-N	7.01	126.71	119.56
4	X	69	TYR	C-N-CA	7.01	126.71	119.56
4	Y	69	TYR	CA-C-N	7.01	126.71	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	69	TYR	C-N-CA	7.01	126.71	119.56
4	6	73	HIS	CA-CB-CG	-7.00	106.80	113.80
4	4	69	TYR	CA-C-N	7.00	126.69	119.56
4	4	69	TYR	C-N-CA	7.00	126.69	119.56
4	Y	73	HIS	CA-CB-CG	-6.99	106.81	113.80
4	7	73	HIS	CA-CB-CG	-6.99	106.81	113.80
1	A	652	LEU	O-C-N	6.99	130.21	122.11
4	4	73	HIS	CA-CB-CG	-6.98	106.82	113.80
1	D	686	MET	CA-C-N	-6.98	111.43	121.42
1	D	686	MET	C-N-CA	-6.98	111.43	121.42
4	3	73	HIS	CA-CB-CG	-6.98	106.82	113.80
4	5	69	TYR	CA-C-N	6.98	126.68	119.56
4	5	69	TYR	C-N-CA	6.98	126.68	119.56
4	7	69	TYR	CA-C-N	6.98	126.68	119.56
4	7	69	TYR	C-N-CA	6.98	126.68	119.56
4	8	73	HIS	CA-CB-CG	-6.98	106.82	113.80
1	A	686	MET	CA-C-N	-6.97	111.45	121.42
1	A	686	MET	C-N-CA	-6.97	111.45	121.42
4	4	287	ILE	CB-CA-C	-6.97	102.73	112.14
4	2	73	HIS	CA-CB-CG	-6.97	106.83	113.80
4	6	69	TYR	CA-C-N	6.97	126.67	119.56
4	6	69	TYR	C-N-CA	6.97	126.67	119.56
4	2	69	TYR	CA-C-N	6.96	126.66	119.56
4	2	69	TYR	C-N-CA	6.96	126.66	119.56
1	D	652	LEU	O-C-N	6.96	130.18	122.11
4	1	287	ILE	CB-CA-C	-6.95	102.75	112.14
4	7	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	9	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	X	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	5	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	V	287	ILE	CB-CA-C	-6.95	102.76	112.14
4	W	69	TYR	CA-C-N	6.95	126.64	119.56
4	W	69	TYR	C-N-CA	6.95	126.64	119.56
4	X	73	HIS	CA-CB-CG	-6.95	106.86	113.80
4	8	287	ILE	CB-CA-C	-6.94	102.78	112.14
4	Z	287	ILE	N-CA-C	6.93	117.69	110.62
4	Z	73	HIS	CA-CB-CG	-6.93	106.87	113.80
4	7	287	ILE	N-CA-C	6.93	117.69	110.62
4	W	287	ILE	CB-CA-C	-6.93	102.79	112.14
4	2	287	ILE	CB-CA-C	-6.92	102.79	112.14
4	3	287	ILE	CB-CA-C	-6.92	102.79	112.14
4	Z	287	ILE	CB-CA-C	-6.92	102.80	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	686	MET	CA-C-N	-6.92	111.53	121.42
1	J	686	MET	C-N-CA	-6.92	111.53	121.42
4	W	73	HIS	CA-CB-CG	-6.92	106.88	113.80
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
4	2	287	ILE	N-CA-C	6.91	117.67	110.62
4	X	287	ILE	N-CA-C	6.91	117.67	110.62
4	2	191	LYS	CA-C-O	-6.91	113.58	120.70
4	Y	287	ILE	CB-CA-C	-6.91	102.81	112.14
1	S	686	MET	CA-C-N	-6.90	111.55	121.42
1	S	686	MET	C-N-CA	-6.90	111.55	121.42
1	G	676	ILE	CA-C-N	6.90	128.47	119.84
1	G	676	ILE	C-N-CA	6.90	128.47	119.84
4	5	73	HIS	CA-CB-CG	-6.90	106.90	113.80
4	1	191	LYS	CA-C-O	-6.89	113.60	120.70
1	G	686	MET	CA-C-N	-6.89	111.57	121.42
1	G	686	MET	C-N-CA	-6.89	111.57	121.42
4	7	191	LYS	CA-C-O	-6.89	113.61	120.70
4	9	73	HIS	CA-CB-CG	-6.88	106.92	113.80
4	8	287	ILE	N-CA-C	6.88	117.64	110.62
4	Y	287	ILE	N-CA-C	6.88	117.64	110.62
4	1	287	ILE	N-CA-C	6.88	117.64	110.62
1	S	529	PRO	CA-C-N	-6.87	111.65	122.65
1	S	529	PRO	C-N-CA	-6.87	111.65	122.65
4	6	287	ILE	CB-CA-C	-6.87	102.87	112.14
4	5	287	ILE	N-CA-C	6.87	117.62	110.62
4	4	287	ILE	N-CA-C	6.86	117.62	110.62
1	M	218	LEU	O-C-N	6.86	131.38	123.29
4	3	287	ILE	N-CA-C	6.86	117.61	110.62
4	V	191	LYS	CA-C-O	-6.86	113.64	120.70
4	Y	191	LYS	CA-C-O	-6.86	113.64	120.70
1	G	785	GLU	O-C-N	6.85	131.71	122.59
1	J	529	PRO	CA-C-N	-6.85	111.69	122.65
1	J	529	PRO	C-N-CA	-6.85	111.69	122.65
4	6	287	ILE	N-CA-C	6.85	117.61	110.62
1	S	201	ALA	CB-CA-C	-6.85	106.46	116.53
4	8	191	LYS	CA-C-O	-6.85	113.64	120.70
4	W	191	LYS	CA-C-O	-6.85	113.65	120.70
1	G	529	PRO	CA-C-N	-6.84	111.70	122.65
1	G	529	PRO	C-N-CA	-6.84	111.70	122.65
1	S	676	ILE	CA-C-N	6.84	128.40	119.84
1	S	676	ILE	C-N-CA	6.84	128.40	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	529	PRO	CA-C-N	-6.84	111.71	122.65
1	M	529	PRO	C-N-CA	-6.84	111.71	122.65
4	9	191	LYS	CA-C-O	-6.84	113.66	120.70
4	V	287	ILE	N-CA-C	6.84	117.59	110.62
4	X	191	LYS	CA-C-O	-6.84	113.66	120.70
1	J	201	ALA	CB-CA-C	-6.83	106.48	116.53
4	5	191	LYS	CA-C-O	-6.83	113.66	120.70
4	W	287	ILE	N-CA-C	6.83	117.59	110.62
4	4	191	LYS	CA-C-O	-6.83	113.66	120.70
1	G	201	ALA	CB-CA-C	-6.83	106.49	116.53
1	M	201	ALA	CB-CA-C	-6.83	106.49	116.53
4	3	191	LYS	CA-C-O	-6.83	113.67	120.70
4	6	191	LYS	CA-C-O	-6.82	113.68	120.70
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
1	J	676	ILE	CA-C-N	6.81	128.35	119.84
1	J	676	ILE	C-N-CA	6.81	128.35	119.84
1	M	578	HIS	N-CA-CB	6.81	121.99	110.49
4	Z	191	LYS	CA-C-O	-6.81	113.69	120.70
4	3	214	GLU	CB-CG-CD	6.80	124.16	112.60
1	D	146	LYS	N-CA-C	6.80	119.60	108.52
1	S	578	HIS	N-CA-CB	6.80	121.98	110.49
4	9	287	ILE	N-CA-C	6.80	117.55	110.62
1	D	529	PRO	CA-C-N	-6.79	111.78	122.65
1	D	529	PRO	C-N-CA	-6.79	111.78	122.65
1	A	529	PRO	CA-C-N	-6.79	111.78	122.65
1	A	529	PRO	C-N-CA	-6.79	111.78	122.65
1	G	578	HIS	N-CA-CB	6.79	121.97	110.49
1	A	676	ILE	CA-C-N	6.79	128.32	119.84
1	A	676	ILE	C-N-CA	6.79	128.32	119.84
4	W	214	GLU	CB-CG-CD	6.79	124.14	112.60
1	D	676	ILE	CA-C-N	6.78	128.32	119.84
1	D	676	ILE	C-N-CA	6.78	128.32	119.84
2	N	139	ALA	N-CA-C	-6.78	104.33	114.64
2	E	139	ALA	N-CA-C	-6.78	104.33	114.64
4	6	259	GLU	N-CA-C	-6.78	104.11	112.38
1	A	201	ALA	CB-CA-C	-6.78	106.57	116.53
4	4	214	GLU	CB-CG-CD	6.78	124.12	112.60
4	Z	214	GLU	CB-CG-CD	6.77	124.11	112.60
2	T	139	ALA	N-CA-C	-6.77	104.35	114.64
4	1	259	GLU	N-CA-C	-6.76	104.13	112.38
4	8	214	GLU	CB-CG-CD	6.76	124.09	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	139	ALA	N-CA-C	-6.76	104.37	114.64
1	A	578	HIS	N-CA-CB	6.76	121.91	110.49
4	X	214	GLU	CB-CG-CD	6.76	124.09	112.60
2	B	139	ALA	N-CA-C	-6.75	104.37	114.64
4	9	214	GLU	CB-CG-CD	6.75	124.08	112.60
4	7	214	GLU	CB-CG-CD	6.75	124.07	112.60
1	J	218	LEU	O-C-N	6.75	131.25	123.29
1	S	146	LYS	N-CA-C	6.75	119.51	108.52
4	5	259	GLU	N-CA-C	-6.75	104.15	112.38
4	1	214	GLU	CB-CG-CD	6.74	124.06	112.60
1	S	218	LEU	O-C-N	6.74	131.25	123.29
2	H	139	ALA	N-CA-C	-6.74	104.39	114.64
4	Y	214	GLU	CB-CG-CD	6.74	124.06	112.60
1	J	578	HIS	N-CA-CB	6.74	121.88	110.49
4	2	259	GLU	N-CA-C	-6.73	104.17	112.38
4	5	214	GLU	CB-CG-CD	6.73	124.05	112.60
4	X	259	GLU	N-CA-C	-6.73	104.17	112.38
4	W	259	GLU	N-CA-C	-6.73	104.17	112.38
4	Z	259	GLU	N-CA-C	-6.73	104.17	112.38
4	6	214	GLU	CB-CG-CD	6.73	124.03	112.60
4	9	259	GLU	N-CA-C	-6.73	104.17	112.38
1	D	201	ALA	CB-CA-C	-6.72	106.64	116.53
4	4	259	GLU	N-CA-C	-6.72	104.18	112.38
4	2	214	GLU	CB-CG-CD	6.72	124.03	112.60
4	V	214	GLU	CB-CG-CD	6.72	124.02	112.60
4	V	259	GLU	N-CA-C	-6.71	104.19	112.38
1	A	146	LYS	N-CA-C	6.71	119.45	108.52
4	8	259	GLU	N-CA-C	-6.70	104.20	112.38
4	7	259	GLU	N-CA-C	-6.69	104.22	112.38
4	Y	259	GLU	N-CA-C	-6.69	104.22	112.38
4	3	259	GLU	N-CA-C	-6.68	104.22	112.38
1	J	146	LYS	N-CA-C	6.68	119.41	108.52
1	D	578	HIS	N-CA-CB	6.68	121.78	110.49
1	M	146	LYS	N-CA-C	6.68	119.40	108.52
1	G	146	LYS	N-CA-C	6.67	119.39	108.52
1	G	218	LEU	O-C-N	6.67	131.16	123.29
1	A	218	LEU	O-C-N	6.66	131.15	123.29
1	D	82	PRO	N-CA-CB	6.57	109.45	103.08
2	T	139	ALA	O-C-N	6.57	128.89	121.93
2	E	139	ALA	O-C-N	6.56	128.89	121.93
4	5	371	HIS	CA-CB-CG	-6.56	107.24	113.80
2	H	141	PRO	N-CA-C	6.56	118.70	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	82	PRO	N-CA-CB	6.56	109.44	103.08
1	A	340	ILE	O-C-N	6.55	128.49	121.87
2	N	139	ALA	O-C-N	6.54	128.86	121.93
1	D	218	LEU	O-C-N	6.53	130.99	123.29
1	J	82	PRO	N-CA-CB	6.52	109.41	103.08
2	K	139	ALA	O-C-N	6.51	128.84	121.93
4	1	371	HIS	CA-CB-CG	-6.51	107.28	113.80
1	A	156	PHE	N-CA-C	-6.51	104.60	112.54
1	S	82	PRO	N-CA-CB	6.51	109.39	103.08
2	E	141	PRO	N-CA-C	6.51	118.64	110.70
1	J	628	GLY	O-C-N	-6.50	114.52	122.71
1	D	156	PHE	N-CA-C	-6.50	104.61	112.54
1	S	628	GLY	O-C-N	-6.50	114.52	122.71
4	V	286	ASP	CA-C-N	6.50	129.36	120.46
4	V	286	ASP	C-N-CA	6.50	129.36	120.46
4	X	371	HIS	CA-CB-CG	-6.49	107.31	113.80
1	M	156	PHE	N-CA-C	-6.49	104.63	112.54
1	S	156	PHE	N-CA-C	-6.49	104.62	112.54
1	M	217	THR	N-CA-CB	6.48	123.59	111.53
1	D	628	GLY	O-C-N	-6.48	114.55	122.71
4	6	371	HIS	CA-CB-CG	-6.48	107.32	113.80
4	4	371	HIS	CA-CB-CG	-6.48	107.32	113.80
1	D	217	THR	N-CA-CB	6.47	123.57	111.53
4	8	371	HIS	CA-CB-CG	-6.47	107.33	113.80
4	9	286	ASP	CA-C-N	6.47	129.33	120.46
4	9	286	ASP	C-N-CA	6.47	129.33	120.46
4	V	371	HIS	CA-CB-CG	-6.47	107.33	113.80
1	G	604	ASN	CA-C-O	6.47	128.46	121.02
1	G	217	THR	N-CA-CB	6.47	123.56	111.53
4	Y	286	ASP	CA-C-N	6.47	129.32	120.46
4	Y	286	ASP	C-N-CA	6.47	129.32	120.46
4	7	371	HIS	CA-CB-CG	-6.47	107.33	113.80
1	A	82	PRO	N-CA-CB	6.47	109.35	103.08
1	A	217	THR	N-CA-CB	6.46	123.55	111.53
1	S	688	HIS	CA-CB-CG	-6.46	107.34	113.80
4	X	286	ASP	CA-C-N	6.46	129.31	120.46
4	X	286	ASP	C-N-CA	6.46	129.31	120.46
4	2	371	HIS	CA-CB-CG	-6.46	107.34	113.80
1	M	628	GLY	O-C-N	-6.46	114.57	122.71
2	B	141	PRO	N-CA-C	6.46	118.58	110.70
1	G	156	PHE	N-CA-C	-6.45	104.67	112.54
2	K	141	PRO	N-CA-C	6.45	118.57	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	371	HIS	CA-CB-CG	-6.45	107.35	113.80
1	J	217	THR	N-CA-CB	6.45	123.53	111.53
4	3	371	HIS	CA-CB-CG	-6.45	107.35	113.80
1	J	156	PHE	N-CA-C	-6.45	104.67	112.54
2	E	141	PRO	N-CD-CG	-6.45	93.53	103.20
4	9	80	ASP	CA-CB-CG	6.45	119.05	112.60
4	1	286	ASP	CA-C-N	6.44	129.29	120.46
4	1	286	ASP	C-N-CA	6.44	129.29	120.46
4	W	286	ASP	CA-C-N	6.44	129.29	120.46
4	W	286	ASP	C-N-CA	6.44	129.29	120.46
4	Z	371	HIS	CA-CB-CG	-6.44	107.36	113.80
4	Z	101	HIS	CB-CG-CD2	-6.44	122.83	131.20
2	H	141	PRO	N-CD-CG	-6.44	93.54	103.20
2	T	141	PRO	N-CA-C	6.44	118.55	110.70
4	Y	101	HIS	CB-CG-CD2	-6.44	122.83	131.20
1	S	217	THR	N-CA-CB	6.43	123.50	111.53
4	4	101	HIS	CB-CG-CD2	-6.43	122.83	131.20
4	W	101	HIS	CB-CG-CD2	-6.43	122.84	131.20
2	H	139	ALA	O-C-N	6.43	128.75	121.93
4	6	80	ASP	CA-CB-CG	6.43	119.03	112.60
4	6	286	ASP	CA-C-N	6.43	129.27	120.46
4	6	286	ASP	C-N-CA	6.43	129.27	120.46
4	Z	286	ASP	CA-C-N	6.43	129.26	120.46
4	Z	286	ASP	C-N-CA	6.43	129.26	120.46
4	3	259	GLU	CA-CB-CG	6.42	126.94	114.10
1	D	340	ILE	O-C-N	6.42	128.35	121.87
4	8	286	ASP	CA-C-N	6.42	129.25	120.46
4	8	286	ASP	C-N-CA	6.42	129.25	120.46
4	2	259	GLU	CA-CB-CG	6.42	126.93	114.10
4	9	371	HIS	CA-CB-CG	-6.42	107.38	113.80
4	X	80	ASP	CA-CB-CG	6.42	119.02	112.60
2	N	141	PRO	N-CA-C	6.42	118.53	110.70
4	W	259	GLU	CA-CB-CG	6.42	126.93	114.10
4	Y	371	HIS	CA-CB-CG	-6.42	107.39	113.80
1	D	47	PHE	CB-CA-C	-6.41	100.88	110.24
1	D	604	ASN	CA-C-O	6.41	128.39	121.02
1	G	628	GLY	O-C-N	-6.41	114.63	122.71
2	N	141	PRO	N-CD-CG	-6.41	93.58	103.20
1	G	739	ASP	CB-CA-C	-6.41	102.74	110.94
4	5	286	ASP	CA-C-N	6.41	129.24	120.46
4	5	286	ASP	C-N-CA	6.41	129.24	120.46
4	V	47	MET	CA-CB-CG	-6.41	101.28	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	101	HIS	CB-CG-CD2	-6.41	122.87	131.20
4	7	80	ASP	CA-CB-CG	6.41	119.00	112.60
1	M	688	HIS	CA-CB-CG	-6.40	107.40	113.80
4	1	47	MET	CA-CB-CG	-6.40	101.30	114.10
4	8	101	HIS	CB-CG-CD2	-6.40	122.88	131.20
4	V	259	GLU	CA-CB-CG	6.40	126.90	114.10
1	D	688	HIS	CA-CB-CG	-6.40	107.40	113.80
4	1	259	GLU	CA-CB-CG	6.40	126.90	114.10
4	8	47	MET	CA-CB-CG	-6.40	101.30	114.10
4	4	286	ASP	CA-C-N	6.40	129.23	120.46
4	4	286	ASP	C-N-CA	6.40	129.23	120.46
4	3	286	ASP	CA-C-N	6.40	129.22	120.46
4	3	286	ASP	C-N-CA	6.40	129.22	120.46
4	7	101	HIS	CB-CG-CD2	-6.40	122.88	131.20
4	7	47	MET	CA-CB-CG	-6.40	101.31	114.10
4	9	101	HIS	CB-CG-CD2	-6.40	122.89	131.20
2	K	141	PRO	N-CD-CG	-6.39	93.61	103.20
4	2	286	ASP	CA-C-N	6.39	129.22	120.46
4	2	286	ASP	C-N-CA	6.39	129.22	120.46
4	9	259	GLU	CA-CB-CG	6.39	126.89	114.10
2	B	139	ALA	O-C-N	6.39	128.70	121.93
4	3	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
4	8	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	V	80	ASP	CA-CB-CG	6.39	118.99	112.60
4	X	259	GLU	CA-CB-CG	6.39	126.88	114.10
4	3	80	ASP	CA-CB-CG	6.39	118.99	112.60
4	V	101	HIS	CB-CG-CD2	-6.39	122.89	131.20
1	G	82	PRO	N-CA-CB	6.38	109.27	103.08
4	7	286	ASP	CA-C-N	6.38	129.21	120.46
4	7	286	ASP	C-N-CA	6.38	129.21	120.46
4	6	101	HIS	CB-CG-CD2	-6.38	122.90	131.20
4	Z	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	5	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	4	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	7	259	GLU	CA-CB-CG	6.38	126.86	114.10
4	4	80	ASP	CA-CB-CG	6.38	118.98	112.60
4	Y	259	GLU	CA-CB-CG	6.38	126.85	114.10
1	J	688	HIS	CA-CB-CG	-6.38	107.42	113.80
4	4	47	MET	CA-CB-CG	-6.37	101.35	114.10
4	6	259	GLU	CA-CB-CG	6.37	126.85	114.10
1	A	755	HIS	CA-CB-CG	6.37	120.17	113.80
1	J	47	PHE	CB-CA-C	-6.37	100.94	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	604	ASN	CA-C-O	6.37	128.35	121.02
4	5	47	MET	CA-CB-CG	-6.37	101.36	114.10
4	5	101	HIS	CB-CG-CD2	-6.37	122.92	131.20
4	W	80	ASP	CA-CB-CG	6.37	118.97	112.60
4	Y	47	MET	CA-CB-CG	-6.37	101.36	114.10
4	9	47	MET	CA-CB-CG	-6.37	101.36	114.10
1	S	755	HIS	CA-CB-CG	6.37	120.17	113.80
4	W	47	MET	CA-CB-CG	-6.37	101.37	114.10
1	A	628	GLY	O-C-N	-6.37	114.69	122.71
2	T	141	PRO	N-CD-CG	-6.37	93.65	103.20
4	X	47	MET	CA-CB-CG	-6.37	101.37	114.10
1	J	340	ILE	O-C-N	6.36	128.29	121.87
1	M	47	PHE	CB-CA-C	-6.36	100.95	110.24
4	3	47	MET	CA-CB-CG	-6.36	101.38	114.10
4	6	47	MET	CA-CB-CG	-6.36	101.38	114.10
1	M	340	ILE	O-C-N	6.35	128.29	121.87
4	1	80	ASP	CA-CB-CG	6.35	118.95	112.60
1	A	47	PHE	CB-CA-C	-6.35	100.97	110.24
4	Y	80	ASP	CA-CB-CG	6.35	118.95	112.60
1	A	604	ASN	CA-C-O	6.35	128.32	121.02
1	S	47	PHE	CB-CA-C	-6.35	100.97	110.24
1	J	604	ASN	CA-C-O	6.34	128.31	121.02
4	5	80	ASP	CA-CB-CG	6.34	118.94	112.60
4	8	282	ILE	CA-C-O	-6.34	114.01	121.05
1	G	739	ASP	N-CA-CB	6.34	119.63	110.37
1	S	340	ILE	O-C-N	6.34	128.27	121.87
4	2	101	HIS	CB-CG-CD2	-6.34	122.96	131.20
4	2	47	MET	CA-CB-CG	-6.34	101.42	114.10
4	Z	282	ILE	CA-C-O	-6.33	114.02	121.05
2	B	141	PRO	N-CD-CG	-6.33	93.70	103.20
4	2	80	ASP	CA-CB-CG	6.33	118.93	112.60
4	3	282	ILE	CA-C-O	-6.33	114.02	121.05
4	8	80	ASP	CA-CB-CG	6.33	118.93	112.60
4	Z	80	ASP	CA-CB-CG	6.33	118.93	112.60
4	9	282	ILE	CA-C-O	-6.33	114.02	121.05
4	Y	1	ASP	CA-CB-CG	6.33	118.93	112.60
4	1	282	ILE	CA-C-O	-6.33	114.03	121.05
1	M	604	ASN	CA-C-O	6.32	128.29	121.02
4	7	282	ILE	CA-C-O	-6.32	114.03	121.05
4	Z	47	MET	CA-CB-CG	-6.32	101.45	114.10
4	Y	282	ILE	CA-C-O	-6.32	114.03	121.05
1	A	688	HIS	CA-CB-CG	-6.32	107.48	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	599	ASN	OD1-CG-ND2	-6.31	116.29	122.60
4	X	101	HIS	CB-CG-CD2	-6.31	123.00	131.20
1	G	47	PHE	CB-CA-C	-6.31	101.03	110.24
4	X	282	ILE	CA-C-O	-6.31	114.05	121.05
1	G	340	ILE	O-C-N	6.30	128.24	121.87
4	Y	217	CYS	N-CA-C	6.30	119.60	110.28
1	G	688	HIS	CA-CB-CG	-6.29	107.50	113.80
4	9	217	CYS	N-CA-C	6.29	119.60	110.28
4	2	282	ILE	CA-C-O	-6.29	114.07	121.05
4	6	282	ILE	CA-C-O	-6.28	114.08	121.05
4	W	282	ILE	CA-C-O	-6.28	114.08	121.05
1	J	755	HIS	CA-CB-CG	6.28	120.08	113.80
4	6	217	CYS	N-CA-C	6.28	119.57	110.28
1	A	599	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	G	524	GLU	N-CA-CB	6.27	119.47	110.06
4	9	1	ASP	CA-CB-CG	6.27	118.87	112.60
1	M	755	HIS	CA-CB-CG	6.27	120.07	113.80
4	V	282	ILE	CA-C-O	-6.27	114.09	121.05
4	4	282	ILE	CA-C-O	-6.27	114.09	121.05
1	A	291	ILE	N-CA-C	6.27	116.94	110.36
1	S	599	ASN	OD1-CG-ND2	-6.26	116.34	122.60
4	Z	217	CYS	N-CA-C	6.26	119.55	110.28
4	2	1	ASP	CA-CB-CG	6.26	118.86	112.60
1	M	599	ASN	OD1-CG-ND2	-6.26	116.34	122.60
4	2	217	CYS	N-CA-C	6.26	119.54	110.28
1	D	755	HIS	CA-CB-CG	6.25	120.05	113.80
4	7	217	CYS	N-CA-C	6.25	119.53	110.28
1	A	524	GLU	N-CA-CB	6.25	119.44	110.06
4	8	1	ASP	CA-CB-CG	6.25	118.85	112.60
1	D	443	ILE	CB-CA-C	-6.25	103.88	111.88
1	M	631	GLU	CA-C-N	6.25	131.91	120.79
1	M	631	GLU	C-N-CA	6.25	131.91	120.79
1	M	524	GLU	N-CA-CB	6.25	119.43	110.06
1	G	291	ILE	N-CA-C	6.24	116.92	110.36
4	Z	1	ASP	CA-CB-CG	6.24	118.84	112.60
4	8	217	CYS	N-CA-C	6.24	119.52	110.28
4	4	217	CYS	N-CA-C	6.24	119.52	110.28
1	A	363	ASN	OD1-CG-ND2	6.24	128.84	122.60
1	D	524	GLU	N-CA-CB	6.24	119.42	110.06
1	S	524	GLU	N-CA-CB	6.23	119.41	110.06
1	J	631	GLU	CA-C-N	6.23	131.88	120.79
1	J	631	GLU	C-N-CA	6.23	131.88	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	443	ILE	CB-CA-C	-6.23	103.90	111.88
4	4	1	ASP	CA-CB-CG	6.23	118.83	112.60
1	S	631	GLU	CA-C-N	6.23	131.88	120.79
1	S	631	GLU	C-N-CA	6.23	131.88	120.79
1	G	755	HIS	CA-CB-CG	6.23	120.03	113.80
4	W	1	ASP	CA-CB-CG	6.23	118.83	112.60
4	1	217	CYS	N-CA-C	6.22	119.49	110.28
4	5	282	ILE	CA-C-O	-6.22	114.14	121.05
1	J	443	ILE	CB-CA-C	-6.22	103.92	111.88
4	1	1	ASP	CA-CB-CG	6.22	118.82	112.60
4	5	217	CYS	N-CA-C	6.22	119.48	110.28
1	A	443	ILE	CB-CA-C	-6.21	103.92	111.88
1	J	524	GLU	N-CA-CB	6.21	119.37	110.06
1	A	631	GLU	CA-C-N	6.20	131.83	120.79
1	A	631	GLU	C-N-CA	6.20	131.83	120.79
4	W	217	CYS	N-CA-C	6.20	119.46	110.28
1	M	443	ILE	CB-CA-C	-6.20	103.94	111.88
1	A	341	LEU	CB-CA-C	6.20	122.30	110.27
4	V	217	CYS	N-CA-C	6.20	119.46	110.28
4	X	1	ASP	CA-CB-CG	6.20	118.80	112.60
1	D	631	GLU	CA-C-N	6.20	131.82	120.79
1	D	631	GLU	C-N-CA	6.20	131.82	120.79
1	M	22	LYS	N-CA-C	-6.20	106.31	114.31
1	G	599	ASN	OD1-CG-ND2	-6.20	116.40	122.60
4	6	1	ASP	CA-CB-CG	6.19	118.79	112.60
4	X	217	CYS	N-CA-C	6.19	119.45	110.28
1	S	22	LYS	N-CA-C	-6.19	106.32	114.31
4	3	217	CYS	N-CA-C	6.18	119.43	110.28
1	D	22	LYS	N-CA-C	-6.18	106.34	114.31
1	G	341	LEU	CB-CA-C	6.18	122.25	110.27
1	J	599	ASN	OD1-CG-ND2	-6.17	116.42	122.60
2	E	129	THR	CA-CB-CG2	6.17	120.99	110.50
1	A	22	LYS	N-CA-C	-6.17	106.35	114.31
1	J	22	LYS	N-CA-C	-6.17	106.36	114.31
4	6	219	VAL	CB-CA-C	-6.17	102.97	110.99
4	Y	219	VAL	CB-CA-C	-6.17	102.97	110.99
4	V	1	ASP	CA-CB-CG	6.17	118.77	112.60
4	5	1	ASP	CA-CB-CG	6.16	118.76	112.60
4	5	219	VAL	CB-CA-C	-6.16	102.98	110.99
4	3	219	VAL	CB-CA-C	-6.16	102.99	110.99
4	9	219	VAL	CB-CA-C	-6.16	102.99	110.99
1	M	341	LEU	CB-CA-C	6.16	122.21	110.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	352	TYR	N-CA-CB	6.15	120.96	110.50
1	G	443	ILE	CB-CA-C	-6.15	104.00	111.88
4	3	219	VAL	N-CA-CB	6.15	119.65	111.90
4	V	205	GLU	N-CA-C	-6.15	104.50	112.68
4	W	219	VAL	CB-CA-C	-6.15	103.00	110.99
4	3	1	ASP	CA-CB-CG	6.15	118.75	112.60
4	4	205	GLU	N-CA-C	-6.15	104.51	112.68
4	1	219	VAL	N-CA-CB	6.14	119.64	111.90
4	X	219	VAL	N-CA-CB	6.14	119.64	111.90
4	Y	219	VAL	N-CA-CB	6.14	119.64	111.90
4	Z	219	VAL	CB-CA-C	-6.14	103.01	110.99
4	7	219	VAL	N-CA-CB	6.14	119.63	111.90
4	9	219	VAL	N-CA-CB	6.14	119.63	111.90
1	S	341	LEU	CB-CA-C	6.13	122.17	110.27
4	5	128	ASN	N-CA-CB	-6.13	102.59	111.91
4	7	1	ASP	CA-CB-CG	6.13	118.73	112.60
4	8	219	VAL	N-CA-CB	6.13	119.62	111.90
1	J	341	LEU	CB-CA-C	6.13	122.15	110.27
4	2	219	VAL	CB-CA-C	-6.12	103.03	110.99
4	7	219	VAL	CB-CA-C	-6.12	103.03	110.99
4	W	128	ASN	N-CA-CB	-6.12	102.61	111.91
4	X	205	GLU	N-CA-C	-6.12	104.54	112.68
4	7	205	GLU	N-CA-C	-6.12	104.54	112.68
4	8	219	VAL	CB-CA-C	-6.11	103.04	110.99
4	V	219	VAL	CB-CA-C	-6.11	103.04	110.99
4	V	219	VAL	N-CA-CB	6.11	119.60	111.90
4	Z	219	VAL	N-CA-CB	6.11	119.60	111.90
4	1	219	VAL	CB-CA-C	-6.11	103.05	110.99
4	4	128	ASN	N-CA-CB	-6.11	102.63	111.91
2	B	129	THR	CA-CB-CG2	6.11	120.88	110.50
4	Z	205	GLU	N-CA-C	-6.10	104.56	112.68
4	2	219	VAL	N-CA-CB	6.10	119.59	111.90
4	4	219	VAL	CB-CA-C	-6.10	103.06	110.99
4	4	219	VAL	N-CA-CB	6.10	119.59	111.90
1	D	341	LEU	CB-CA-C	6.10	122.10	110.27
1	M	686	MET	N-CA-CB	-6.10	100.53	110.59
4	5	205	GLU	N-CA-C	-6.10	104.57	112.68
4	W	219	VAL	N-CA-CB	6.10	119.58	111.90
4	9	128	ASN	N-CA-CB	-6.10	102.64	111.91
4	1	128	ASN	N-CA-CB	-6.09	102.65	111.91
4	3	205	GLU	N-CA-C	-6.09	104.58	112.68
4	Y	128	ASN	N-CA-CB	-6.09	102.64	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2	205	GLU	N-CA-C	-6.09	104.58	112.68
2	H	129	THR	CA-CB-CG2	6.09	120.86	110.50
4	X	219	VAL	CB-CA-C	-6.09	103.07	110.99
4	W	205	GLU	N-CA-C	-6.09	104.58	112.68
1	J	279	LEU	CA-C-N	6.09	125.98	119.28
1	J	279	LEU	C-N-CA	6.09	125.98	119.28
4	9	205	GLU	N-CA-C	-6.09	104.58	112.68
4	2	128	ASN	N-CA-CB	-6.09	102.66	111.91
4	6	128	ASN	N-CA-CB	-6.09	102.66	111.91
4	8	205	GLU	N-CA-C	-6.08	104.60	112.68
4	5	219	VAL	N-CA-CB	6.07	119.55	111.90
4	8	128	ASN	N-CA-CB	-6.07	102.68	111.91
4	V	128	ASN	N-CA-CB	-6.07	102.68	111.91
4	7	128	ASN	N-CA-CB	-6.07	102.68	111.91
1	J	363	ASN	OD1-CG-ND2	6.07	128.67	122.60
1	D	136	ASN	CA-C-O	6.07	124.81	119.71
4	1	205	GLU	N-CA-C	-6.07	104.61	112.68
4	X	128	ASN	N-CA-CB	-6.06	102.69	111.91
1	A	279	LEU	CA-C-N	6.06	125.95	119.28
1	A	279	LEU	C-N-CA	6.06	125.95	119.28
1	A	231	ALA	O-C-N	6.06	129.72	122.27
2	T	129	THR	CA-CB-CG2	6.06	120.80	110.50
4	6	205	GLU	N-CA-C	-6.06	104.62	112.68
4	Y	205	GLU	N-CA-C	-6.06	104.62	112.68
1	G	231	ALA	O-C-N	6.06	129.72	122.27
1	G	631	GLU	CA-C-N	6.06	131.57	120.79
1	G	631	GLU	C-N-CA	6.06	131.57	120.79
4	3	128	ASN	N-CA-CB	-6.06	102.70	111.91
4	Z	59	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	M	165	PHE	N-CA-CB	-6.05	100.26	110.49
1	M	136	ASN	CA-C-O	6.05	124.79	119.71
1	S	279	LEU	CA-C-N	6.05	125.94	119.28
1	S	279	LEU	C-N-CA	6.05	125.94	119.28
4	Z	128	ASN	N-CA-CB	-6.05	102.72	111.91
1	G	22	LYS	N-CA-C	-6.05	106.51	114.31
1	D	479	CYS	N-CA-CB	6.05	118.95	109.94
1	G	352	TYR	N-CA-CB	6.05	120.78	110.50
4	3	95	ARG	CA-CB-CG	6.05	126.19	114.10
2	K	129	THR	CA-CB-CG2	6.04	120.78	110.50
1	S	363	ASN	OD1-CG-ND2	6.04	128.65	122.60
1	G	686	MET	N-CA-CB	-6.04	100.62	110.59
1	J	686	MET	N-CA-CB	-6.04	100.62	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	136	ASN	CA-C-O	6.04	124.79	119.71
4	4	95	ARG	CA-CB-CG	6.04	126.19	114.10
1	D	363	ASN	OD1-CG-ND2	6.04	128.64	122.60
1	J	180	GLU	N-CA-CB	6.04	118.66	110.38
1	S	686	MET	N-CA-CB	-6.04	100.62	110.59
4	3	252	ASN	CA-CB-CG	6.04	118.64	112.60
1	D	180	GLU	N-CA-CB	6.04	118.65	110.38
1	A	165	PHE	N-CA-CB	-6.03	100.29	110.49
4	2	59	GLN	OE1-CD-NE2	-6.03	116.57	122.60
1	G	363	ASN	OD1-CG-ND2	6.03	128.63	122.60
4	4	252	ASN	CA-CB-CG	6.03	118.63	112.60
4	Z	252	ASN	CA-CB-CG	6.03	118.63	112.60
1	M	279	LEU	CA-C-N	6.03	125.91	119.28
1	M	279	LEU	C-N-CA	6.03	125.91	119.28
1	S	747	LEU	N-CA-CB	6.03	118.92	109.94
4	6	219	VAL	N-CA-CB	6.03	119.49	111.90
4	W	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	M	231	ALA	O-C-N	6.02	129.68	122.27
4	2	95	ARG	CA-CB-CG	6.02	126.14	114.10
1	A	308	ASN	CA-C-N	6.02	125.64	119.56
1	A	308	ASN	C-N-CA	6.02	125.64	119.56
1	G	592	ILE	CA-C-N	-6.02	113.44	122.47
1	G	592	ILE	C-N-CA	-6.02	113.44	122.47
2	N	129	THR	CA-CB-CG2	6.02	120.73	110.50
1	D	231	ALA	O-C-N	6.02	129.67	122.27
1	S	180	GLU	N-CA-CB	6.02	118.62	110.38
1	S	165	PHE	N-CA-CB	-6.02	100.32	110.49
4	1	95	ARG	CA-CB-CG	6.02	126.13	114.10
1	D	686	MET	N-CA-CB	-6.01	100.67	110.59
1	J	136	ASN	CA-C-O	6.01	124.76	119.71
1	J	352	TYR	N-CA-CB	6.01	120.72	110.50
4	9	95	ARG	CA-CB-CG	6.01	126.13	114.10
4	X	95	ARG	CA-CB-CG	6.01	126.13	114.10
1	D	279	LEU	CA-C-N	6.01	125.89	119.28
1	D	279	LEU	C-N-CA	6.01	125.89	119.28
1	J	165	PHE	N-CA-CB	-6.01	100.33	110.49
1	M	352	TYR	N-CA-CB	6.01	120.72	110.50
4	8	252	ASN	CA-CB-CG	6.01	118.61	112.60
4	9	59	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	A	686	MET	N-CA-CB	-6.01	100.67	110.59
1	D	790	THR	CA-C-O	6.01	126.76	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	165	PHE	N-CA-CB	-6.01	100.33	110.49
1	J	231	ALA	O-C-N	6.01	129.66	122.27
4	6	59	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	S	231	ALA	O-C-N	6.01	129.66	122.27
4	3	59	GLN	OE1-CD-NE2	-6.01	116.59	122.60
4	8	95	ARG	CA-CB-CG	6.01	126.11	114.10
4	Y	59	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	J	747	LEU	N-CA-CB	6.00	118.88	109.94
4	3	231	ALA	N-CA-C	6.00	117.49	111.07
4	7	95	ARG	CA-CB-CG	6.00	126.10	114.10
1	G	279	LEU	CA-C-N	6.00	125.88	119.28
1	G	279	LEU	C-N-CA	6.00	125.88	119.28
4	9	231	ALA	N-CA-C	6.00	117.49	111.07
4	6	95	ARG	CA-CB-CG	6.00	126.09	114.10
4	Z	95	ARG	CA-CB-CG	6.00	126.09	114.10
1	D	136	ASN	O-C-N	6.00	126.30	121.38
1	D	165	PHE	N-CA-CB	-6.00	100.36	110.49
4	Y	95	ARG	CA-CB-CG	6.00	126.09	114.10
1	A	352	TYR	N-CA-CB	5.99	120.69	110.50
4	2	252	ASN	CA-CB-CG	5.99	118.59	112.60
1	S	352	TYR	N-CA-CB	5.99	120.68	110.50
4	5	5	THR	CA-C-N	5.99	130.72	120.72
4	5	5	THR	C-N-CA	5.99	130.72	120.72
4	V	95	ARG	CA-CB-CG	5.99	126.08	114.10
1	G	136	ASN	O-C-N	5.98	126.29	121.38
4	8	5	THR	CA-C-N	5.98	130.71	120.72
4	8	5	THR	C-N-CA	5.98	130.71	120.72
1	M	747	LEU	N-CA-CB	5.98	118.85	109.94
4	1	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
4	4	231	ALA	N-CA-C	5.98	117.47	111.07
1	G	576	GLU	CA-CB-CG	-5.98	102.15	114.10
1	D	576	GLU	CA-CB-CG	-5.98	102.15	114.10
4	X	59	GLN	OE1-CD-NE2	-5.98	116.62	122.60
4	6	231	ALA	N-CA-C	5.97	117.46	111.07
4	5	95	ARG	CA-CB-CG	5.97	126.04	114.10
4	X	252	ASN	CA-CB-CG	5.97	118.57	112.60
1	A	479	CYS	N-CA-CB	5.97	118.83	109.94
1	G	278	GLN	OE1-CD-NE2	5.96	128.56	122.60
1	A	136	ASN	O-C-N	5.96	126.27	121.38
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
4	V	59	GLN	OE1-CD-NE2	-5.96	116.64	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	576	GLU	CA-CB-CG	-5.96	102.19	114.10
4	4	59	GLN	OE1-CD-NE2	-5.96	116.64	122.60
4	6	5	THR	CA-C-N	5.96	130.67	120.72
4	6	5	THR	C-N-CA	5.96	130.67	120.72
4	6	252	ASN	CA-CB-CG	5.96	118.56	112.60
4	W	231	ALA	N-CA-C	5.96	117.45	111.07
4	9	252	ASN	CA-CB-CG	5.96	118.56	112.60
4	W	5	THR	CA-C-N	5.96	130.67	120.72
4	W	5	THR	C-N-CA	5.96	130.67	120.72
4	Z	231	ALA	N-CA-C	5.96	117.44	111.07
1	A	576	GLU	CA-CB-CG	-5.95	102.20	114.10
1	M	632	GLY	O-C-N	5.95	129.41	122.68
4	1	97	ALA	N-CA-C	-5.95	102.28	109.72
4	V	5	THR	CA-C-N	5.95	130.66	120.72
4	V	5	THR	C-N-CA	5.95	130.66	120.72
1	D	747	LEU	N-CA-CB	5.95	118.81	109.94
4	7	5	THR	CA-C-N	5.95	130.66	120.72
4	7	5	THR	C-N-CA	5.95	130.66	120.72
4	7	231	ALA	N-CA-C	5.95	117.44	111.07
4	8	59	GLN	OE1-CD-NE2	-5.95	116.65	122.60
4	X	5	THR	CA-C-N	5.95	130.66	120.72
4	X	5	THR	C-N-CA	5.95	130.66	120.72
1	G	308	ASN	CA-C-N	5.95	125.57	119.56
1	G	308	ASN	C-N-CA	5.95	125.57	119.56
4	2	5	THR	CA-C-N	5.95	130.65	120.72
4	2	5	THR	C-N-CA	5.95	130.65	120.72
1	J	632	GLY	O-C-N	5.95	129.40	122.68
4	Y	335	ARG	CA-CB-CG	5.95	125.99	114.10
1	M	576	GLU	CA-CB-CG	-5.94	102.22	114.10
4	W	59	GLN	OE1-CD-NE2	-5.94	116.66	122.60
4	4	5	THR	CA-C-N	5.94	130.64	120.72
4	4	5	THR	C-N-CA	5.94	130.64	120.72
4	V	252	ASN	CA-CB-CG	5.94	118.54	112.60
4	Z	335	ARG	CA-CB-CG	5.94	125.97	114.10
1	D	308	ASN	CA-C-N	5.94	125.56	119.56
1	D	308	ASN	C-N-CA	5.94	125.56	119.56
4	W	252	ASN	CA-CB-CG	5.94	118.54	112.60
1	A	180	GLU	N-CA-CB	5.93	118.51	110.38
1	D	632	GLY	O-C-N	5.93	129.39	122.68
1	G	632	GLY	O-C-N	5.93	129.38	122.68
4	5	335	ARG	CA-CB-CG	5.93	125.97	114.10
4	9	335	ARG	CA-CB-CG	5.93	125.97	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	257	CYS	O-C-N	-5.93	116.17	120.27
4	Y	5	THR	CA-C-N	5.93	130.63	120.72
4	Y	5	THR	C-N-CA	5.93	130.63	120.72
1	S	576	GLU	CA-CB-CG	-5.93	102.24	114.10
4	W	263	GLN	CA-C-N	5.93	125.55	119.56
4	W	263	GLN	C-N-CA	5.93	125.55	119.56
4	3	263	GLN	CA-C-N	5.93	125.55	119.56
4	3	263	GLN	C-N-CA	5.93	125.55	119.56
4	5	59	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	G	717	TYR	N-CA-C	5.93	121.15	111.37
4	1	5	THR	CA-C-N	5.93	130.62	120.72
4	1	5	THR	C-N-CA	5.93	130.62	120.72
4	3	257	CYS	O-C-N	-5.93	116.18	120.27
4	5	231	ALA	N-CA-C	5.93	117.42	111.07
4	9	34	ILE	CB-CA-C	-5.93	102.36	110.90
1	S	136	ASN	O-C-N	5.93	126.24	121.38
4	9	263	GLN	CA-C-N	5.93	125.55	119.56
4	9	263	GLN	C-N-CA	5.93	125.55	119.56
1	G	753	VAL	N-CA-C	5.92	118.48	109.12
1	J	753	VAL	N-CA-C	5.92	118.48	109.12
4	5	252	ASN	CA-CB-CG	5.92	118.53	112.60
4	V	263	GLN	CA-C-N	5.92	125.54	119.56
4	V	263	GLN	C-N-CA	5.92	125.54	119.56
4	Z	5	THR	CA-C-N	5.92	130.61	120.72
4	Z	5	THR	C-N-CA	5.92	130.61	120.72
1	S	308	ASN	CA-C-N	5.92	125.54	119.56
1	S	308	ASN	C-N-CA	5.92	125.54	119.56
4	3	5	THR	CA-C-N	5.92	130.61	120.72
4	3	5	THR	C-N-CA	5.92	130.61	120.72
4	8	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	V	231	ALA	N-CA-C	5.92	117.41	111.07
4	Z	97	ALA	N-CA-C	-5.92	102.32	109.72
1	J	479	CYS	N-CA-CB	5.92	118.94	110.06
4	7	335	ARG	CA-CB-CG	5.92	125.94	114.10
4	W	97	ALA	N-CA-C	-5.92	102.32	109.72
4	Z	263	GLN	CA-C-N	5.92	125.54	119.56
4	Z	263	GLN	C-N-CA	5.92	125.54	119.56
1	S	632	GLY	O-C-N	5.92	129.37	122.68
4	3	335	ARG	CA-CB-CG	5.92	125.93	114.10
1	D	717	TYR	N-CA-C	5.92	121.13	111.37
1	S	479	CYS	N-CA-CB	5.92	118.93	110.06
1	S	592	ILE	CA-C-N	-5.92	113.60	122.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	592	ILE	C-N-CA	-5.92	113.60	122.47
1	A	632	GLY	O-C-N	5.91	129.36	122.68
4	8	263	GLN	CA-C-N	5.91	125.53	119.56
4	8	263	GLN	C-N-CA	5.91	125.53	119.56
4	1	335	ARG	CA-CB-CG	5.91	125.92	114.10
4	6	257	CYS	O-C-N	-5.91	116.19	120.27
4	X	335	ARG	CA-CB-CG	5.91	125.92	114.10
1	S	753	VAL	N-CA-C	5.91	118.46	109.12
4	3	34	ILE	CB-CA-C	-5.91	102.39	110.90
4	4	233	SER	CA-C-O	5.91	128.96	120.51
4	6	233	SER	CA-C-O	5.91	128.96	120.51
4	6	263	GLN	CA-C-N	5.91	125.53	119.56
4	6	263	GLN	C-N-CA	5.91	125.53	119.56
4	6	335	ARG	CA-CB-CG	5.91	125.92	114.10
1	S	88	ILE	CB-CG1-CD1	-5.91	101.39	113.80
4	1	252	ASN	CA-CB-CG	5.91	118.51	112.60
4	2	335	ARG	CA-CB-CG	5.91	125.92	114.10
4	W	335	ARG	CA-CB-CG	5.91	125.92	114.10
1	M	363	ASN	OD1-CG-ND2	5.91	128.51	122.60
4	8	233	SER	CA-C-O	5.91	128.96	120.51
1	G	136	ASN	CA-C-O	5.91	124.67	119.71
4	1	34	ILE	CB-CA-C	-5.91	102.40	110.90
4	7	263	GLN	CA-C-N	5.91	125.52	119.56
4	7	263	GLN	C-N-CA	5.91	125.52	119.56
4	V	335	ARG	CA-CB-CG	5.91	125.91	114.10
4	X	263	GLN	CA-C-N	5.91	125.52	119.56
4	X	263	GLN	C-N-CA	5.91	125.52	119.56
4	Y	263	GLN	CA-C-N	5.91	125.53	119.56
4	Y	263	GLN	C-N-CA	5.91	125.53	119.56
4	4	335	ARG	CA-CB-CG	5.90	125.91	114.10
1	A	747	LEU	N-CA-CB	5.90	118.73	109.94
1	J	308	ASN	CA-C-N	5.90	125.52	119.56
1	J	308	ASN	C-N-CA	5.90	125.52	119.56
4	5	34	ILE	CB-CA-C	-5.90	102.40	110.90
4	X	231	ALA	N-CA-C	5.90	117.39	111.07
1	J	88	ILE	CB-CG1-CD1	-5.90	101.41	113.80
1	M	88	ILE	CB-CG1-CD1	-5.90	101.41	113.80
4	6	34	ILE	CB-CA-C	-5.90	102.40	110.90
4	6	97	ALA	N-CA-C	-5.90	102.34	109.72
4	8	231	ALA	N-CA-C	5.90	117.38	111.07
4	2	34	ILE	CB-CA-C	-5.90	102.41	110.90
4	7	34	ILE	CB-CA-C	-5.90	102.41	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	753	VAL	N-CA-C	5.90	118.44	109.12
1	G	479	CYS	N-CA-CB	5.90	118.90	110.06
1	G	747	LEU	N-CA-CB	5.90	118.72	109.94
1	M	592	ILE	CA-C-N	-5.90	113.63	122.47
1	M	592	ILE	C-N-CA	-5.90	113.63	122.47
1	G	687	GLU	N-CA-CB	5.89	118.96	110.06
4	8	34	ILE	CB-CA-C	-5.89	102.41	110.90
4	X	97	ALA	N-CA-C	-5.89	102.35	109.72
1	D	23	GLU	N-CA-C	-5.89	104.93	111.71
1	G	88	ILE	CB-CG1-CD1	-5.89	101.43	113.80
4	4	97	ALA	N-CA-C	-5.89	102.35	109.72
4	7	233	SER	CA-C-O	5.89	128.94	120.51
1	A	717	TYR	N-CA-C	5.89	121.09	111.37
1	G	180	GLU	N-CA-CB	5.89	118.45	110.38
1	M	136	ASN	O-C-N	5.89	126.21	121.38
4	Z	34	ILE	CB-CA-C	-5.89	102.42	110.90
1	A	136	ASN	CA-C-O	5.89	124.65	119.71
1	D	786	ILE	CB-CA-C	-5.89	104.33	112.04
1	S	717	TYR	N-CA-C	5.89	121.08	111.37
1	J	592	ILE	CA-C-N	-5.88	113.64	122.47
1	J	592	ILE	C-N-CA	-5.88	113.64	122.47
4	1	263	GLN	CA-C-N	5.88	125.50	119.56
4	1	263	GLN	C-N-CA	5.88	125.50	119.56
4	2	231	ALA	N-CA-C	5.88	117.37	111.07
4	Y	231	ALA	N-CA-C	5.88	117.37	111.07
1	A	278	GLN	OE1-CD-NE2	5.88	128.48	122.60
4	V	34	ILE	CB-CA-C	-5.88	102.43	110.90
1	M	479	CYS	N-CA-CB	5.88	118.88	110.06
4	W	34	ILE	CB-CA-C	-5.88	102.43	110.90
4	2	233	SER	CA-C-O	5.88	128.92	120.51
4	1	233	SER	CA-C-O	5.88	128.91	120.51
4	3	233	SER	CA-C-O	5.88	128.91	120.51
4	7	252	ASN	CA-CB-CG	5.87	118.47	112.60
4	Y	34	ILE	CB-CA-C	-5.87	102.44	110.90
1	D	718	ALA	O-C-N	5.87	128.84	122.15
4	4	34	ILE	CB-CA-C	-5.87	102.44	110.90
4	V	97	ALA	N-CA-C	-5.87	102.38	109.72
4	V	257	CYS	O-C-N	-5.87	116.22	120.27
4	Y	252	ASN	CA-CB-CG	5.87	118.47	112.60
4	1	231	ALA	N-CA-C	5.87	117.35	111.07
4	5	97	ALA	N-CA-C	-5.87	102.38	109.72
4	8	97	ALA	N-CA-C	-5.87	102.38	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	753	VAL	N-CA-C	5.87	118.39	109.12
4	5	263	GLN	CA-C-N	5.87	125.48	119.56
4	5	263	GLN	C-N-CA	5.87	125.48	119.56
4	7	97	ALA	N-CA-C	-5.87	102.39	109.72
1	A	592	ILE	CA-C-N	-5.86	113.67	122.47
1	A	592	ILE	C-N-CA	-5.86	113.67	122.47
4	3	97	ALA	N-CA-C	-5.86	102.39	109.72
4	3	254	ARG	N-CA-CB	-5.86	100.58	110.49
1	G	463	ASP	CA-CB-CG	5.86	118.46	112.60
4	9	233	SER	CA-C-O	5.86	128.89	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	7	59	GLN	OE1-CD-NE2	-5.86	116.74	122.60
4	9	97	ALA	N-CA-C	-5.86	102.40	109.72
4	Y	233	SER	CA-C-O	5.86	128.89	120.51
1	D	278	GLN	OE1-CD-NE2	5.86	128.46	122.60
4	2	263	GLN	CA-C-N	5.86	125.47	119.56
4	2	263	GLN	C-N-CA	5.86	125.47	119.56
4	X	233	SER	CA-C-O	5.86	128.88	120.51
1	A	88	ILE	CB-CG1-CD1	-5.85	101.51	113.80
1	S	463	ASP	CA-CB-CG	5.85	118.45	112.60
1	D	88	ILE	CB-CG1-CD1	-5.85	101.52	113.80
1	J	463	ASP	CA-CB-CG	5.85	118.45	112.60
4	4	263	GLN	CA-C-N	5.85	125.47	119.56
4	4	263	GLN	C-N-CA	5.85	125.47	119.56
1	D	463	ASP	CA-CB-CG	5.85	118.45	112.60
4	4	257	CYS	O-C-N	-5.85	116.23	120.27
4	W	233	SER	CA-C-O	5.85	128.87	120.51
4	X	34	ILE	CB-CA-C	-5.85	102.48	110.90
1	D	739	ASP	N-CA-CB	5.84	119.65	110.71
1	G	23	GLU	N-CA-C	-5.84	104.99	111.71
1	J	136	ASN	O-C-N	5.84	126.17	121.38
4	2	97	ALA	N-CA-C	-5.84	102.41	109.72
4	Y	97	ALA	N-CA-C	-5.84	102.42	109.72
4	5	254	ARG	N-CA-CB	-5.84	100.62	110.49
4	V	233	SER	CA-C-O	5.84	128.86	120.51
1	J	23	GLU	N-CA-C	-5.84	105.00	111.71
1	J	739	ASP	N-CA-CB	5.84	119.64	110.71
1	S	23	GLU	N-CA-C	-5.84	105.00	111.71
4	V	254	ARG	N-CA-CB	-5.84	100.62	110.49
4	Z	233	SER	CA-C-O	5.84	128.86	120.51
4	2	257	CYS	O-C-N	-5.84	116.24	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6	254	ARG	N-CA-CB	-5.84	100.63	110.49
1	M	308	ASN	CA-C-N	5.83	125.45	119.56
1	M	308	ASN	C-N-CA	5.83	125.45	119.56
1	J	717	TYR	N-CA-C	5.83	120.99	111.37
1	M	790	THR	CA-C-O	5.83	126.54	119.31
1	J	687	GLU	N-CA-CB	5.83	118.86	110.06
1	M	687	GLU	N-CA-CB	5.83	118.86	110.06
4	8	254	ARG	N-CA-CB	-5.83	100.64	110.49
1	M	717	TYR	N-CA-C	5.83	120.98	111.37
4	2	254	ARG	N-CA-CB	-5.83	100.65	110.49
1	S	687	GLU	N-CA-CB	5.82	118.85	110.06
4	1	257	CYS	O-C-N	-5.82	116.25	120.27
4	Z	257	CYS	O-C-N	-5.82	116.25	120.27
1	A	786	ILE	CB-CA-C	-5.82	104.41	112.04
4	1	113	LYS	CA-CB-CG	5.82	125.74	114.10
4	5	233	SER	CA-C-O	5.82	128.83	120.51
1	D	753	VAL	N-CA-C	5.82	118.31	109.12
4	9	113	LYS	CA-CB-CG	5.82	125.73	114.10
4	9	254	ARG	N-CA-CB	-5.82	100.66	110.49
4	8	257	CYS	O-C-N	-5.82	116.26	120.27
1	A	790	THR	CA-C-O	5.81	126.52	119.31
1	J	217	THR	O-C-N	5.81	130.01	123.27
4	5	257	CYS	O-C-N	-5.81	116.26	120.27
1	M	718	ALA	O-C-N	5.81	128.78	122.15
4	Z	254	ARG	N-CA-CB	-5.81	100.67	110.49
1	G	217	THR	O-C-N	5.81	130.00	123.27
1	S	278	GLN	OE1-CD-NE2	5.81	128.41	122.60
4	7	254	ARG	N-CA-CB	-5.81	100.68	110.49
4	X	254	ARG	N-CA-CB	-5.81	100.68	110.49
1	M	23	GLU	N-CA-C	-5.80	105.03	111.71
4	1	254	ARG	N-CA-CB	-5.80	100.68	110.49
4	4	113	LYS	CA-CB-CG	5.80	125.71	114.10
4	W	257	CYS	O-C-N	-5.80	116.26	120.27
1	S	739	ASP	N-CA-CB	5.80	119.59	110.71
4	Y	257	CYS	O-C-N	-5.80	116.27	120.27
1	M	463	ASP	CA-CB-CG	5.80	118.40	112.60
4	2	335	ARG	N-CA-C	5.80	123.15	110.80
4	Y	113	LYS	CA-CB-CG	5.79	125.69	114.10
4	4	254	ARG	N-CA-CB	-5.79	100.70	110.49
1	A	23	GLU	N-CA-C	-5.79	105.05	111.71
4	W	113	LYS	CA-CB-CG	5.79	125.68	114.10
4	Z	113	LYS	CA-CB-CG	5.79	125.68	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4	335	ARG	N-CA-C	5.79	123.12	110.80
4	8	263	GLN	OE1-CD-NE2	-5.79	116.81	122.60
4	W	254	ARG	N-CA-CB	-5.79	100.71	110.49
4	2	113	LYS	CA-CB-CG	5.78	125.67	114.10
1	A	718	ALA	O-C-N	5.78	128.74	122.15
4	4	161	HIS	CB-CG-CD2	-5.78	123.68	131.20
1	A	217	THR	O-C-N	5.78	129.97	123.27
4	1	161	HIS	CB-CG-CD2	-5.78	123.68	131.20
4	6	113	LYS	CA-CB-CG	5.78	125.66	114.10
1	D	687	GLU	N-CA-CB	5.78	118.78	110.06
1	G	790	THR	CA-C-O	5.78	126.47	119.31
4	3	113	LYS	CA-CB-CG	5.78	125.65	114.10
4	Z	135	ALA	O-C-N	-5.78	116.59	123.06
4	V	263	GLN	OE1-CD-NE2	-5.77	116.83	122.60
4	7	161	HIS	CB-CG-CD2	-5.77	123.69	131.20
4	V	113	LYS	CA-CB-CG	5.77	125.64	114.10
1	S	785	GLU	N-CA-C	-5.77	104.36	111.75
1	S	790	THR	CA-C-O	5.77	126.47	119.31
4	7	113	LYS	CA-CB-CG	5.77	125.64	114.10
1	M	739	ASP	N-CA-CB	5.77	119.53	110.71
4	5	113	LYS	CA-CB-CG	5.77	125.64	114.10
4	W	335	ARG	N-CA-C	5.77	123.08	110.80
4	Y	254	ARG	N-CA-CB	-5.77	100.74	110.49
1	J	278	GLN	OE1-CD-NE2	5.77	128.37	122.60
1	A	687	GLU	N-CA-CB	5.76	118.77	110.06
4	6	135	ALA	O-C-N	-5.76	116.60	123.06
4	Z	161	HIS	CB-CG-CD2	-5.76	123.70	131.20
1	J	718	ALA	O-C-N	5.76	128.72	122.15
1	S	217	THR	O-C-N	5.76	129.95	123.27
4	9	257	CYS	O-C-N	-5.76	116.30	120.27
4	V	335	ARG	N-CA-C	5.76	123.07	110.80
4	X	335	ARG	N-CA-C	5.76	123.07	110.80
1	A	739	ASP	N-CA-CB	5.76	119.52	110.71
4	1	263	GLN	OE1-CD-NE2	-5.76	116.84	122.60
4	8	335	ARG	N-CA-C	5.76	123.06	110.80
4	W	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	X	113	LYS	CA-CB-CG	5.75	125.61	114.10
1	J	790	THR	CA-C-O	5.75	126.44	119.31
4	7	257	CYS	O-C-N	-5.75	116.30	120.27
4	Y	335	ARG	N-CA-C	5.75	123.05	110.80
2	B	138	ALA	CA-C-N	-5.75	110.89	121.41
2	B	138	ALA	C-N-CA	-5.75	110.89	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	828	HIS	CA-C-N	5.75	129.25	121.20
1	G	828	HIS	C-N-CA	5.75	129.25	121.20
1	M	217	THR	O-C-N	5.75	129.94	123.27
4	5	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	Y	135	ALA	O-C-N	-5.75	116.62	123.06
4	Y	161	HIS	CB-CG-CD2	-5.75	123.72	131.20
4	3	335	ARG	N-CA-C	5.75	123.04	110.80
4	5	335	ARG	N-CA-C	5.75	123.05	110.80
4	8	113	LYS	CA-CB-CG	5.75	125.59	114.10
4	9	335	ARG	N-CA-C	5.75	123.04	110.80
4	2	161	HIS	CB-CG-CD2	-5.74	123.73	131.20
4	6	335	ARG	N-CA-C	5.74	123.03	110.80
4	8	161	HIS	CB-CG-CD2	-5.74	123.73	131.20
4	7	335	ARG	N-CA-C	5.74	123.03	110.80
4	X	135	ALA	O-C-N	-5.74	116.63	123.06
4	3	161	HIS	CB-CG-CD2	-5.74	123.74	131.20
1	M	278	GLN	OE1-CD-NE2	5.74	128.34	122.60
1	J	739	ASP	CB-CA-C	-5.74	102.82	110.79
4	3	135	ALA	O-C-N	-5.74	116.64	123.06
4	6	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	S	718	ALA	O-C-N	5.73	128.69	122.15
4	V	161	HIS	CB-CG-CD2	-5.73	123.75	131.20
4	Z	335	ARG	N-CA-C	5.73	123.01	110.80
4	1	135	ALA	O-C-N	-5.73	116.64	123.06
4	V	185	LEU	N-CA-C	5.73	118.46	111.82
1	J	828	HIS	CA-C-N	5.72	129.21	121.20
1	J	828	HIS	C-N-CA	5.72	129.21	121.20
1	A	22	LYS	CB-CA-C	5.72	118.63	109.02
2	N	138	ALA	CA-C-N	-5.72	110.94	121.41
2	N	138	ALA	C-N-CA	-5.72	110.94	121.41
4	1	335	ARG	N-CA-C	5.72	122.99	110.80
4	2	135	ALA	O-C-N	-5.72	116.66	123.06
4	X	262	PHE	CA-CB-CG	-5.72	108.08	113.80
2	H	138	ALA	CA-C-N	-5.72	110.95	121.41
2	H	138	ALA	C-N-CA	-5.72	110.95	121.41
4	7	135	ALA	O-C-N	-5.72	116.66	123.06
4	7	185	LEU	N-CA-C	5.71	118.45	111.82
4	W	135	ALA	O-C-N	-5.71	116.66	123.06
4	4	135	ALA	O-C-N	-5.71	116.66	123.06
1	M	346	ASP	N-CA-CB	-5.71	101.14	109.82
1	S	433	VAL	N-CA-C	5.71	115.90	110.42
1	G	433	VAL	N-CA-C	5.71	115.90	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	739	ASP	CB-CA-C	-5.71	102.86	110.79
4	X	161	HIS	CB-CG-CD2	-5.71	123.78	131.20
2	K	138	ALA	CA-C-N	-5.71	110.97	121.41
2	K	138	ALA	C-N-CA	-5.71	110.97	121.41
4	4	263	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	M	828	HIS	CA-C-N	5.70	129.18	121.20
1	M	828	HIS	C-N-CA	5.70	129.18	121.20
4	6	185	LEU	N-CA-C	5.70	118.43	111.82
1	A	463	ASP	CA-CB-CG	5.70	118.30	112.60
3	I	63	ILE	CB-CA-C	5.70	120.74	110.48
4	5	135	ALA	O-C-N	-5.70	116.68	123.06
4	9	135	ALA	O-C-N	-5.70	116.68	123.06
2	T	138	ALA	CA-C-N	-5.70	110.98	121.41
2	T	138	ALA	C-N-CA	-5.70	110.98	121.41
4	9	161	HIS	CB-CG-CD2	-5.70	123.79	131.20
1	D	22	LYS	CB-CA-C	5.70	118.59	109.02
1	J	291	ILE	N-CA-C	5.70	117.11	110.62
4	9	262	PHE	CA-CB-CG	-5.70	108.10	113.80
2	E	138	ALA	CA-C-N	-5.69	110.99	121.41
2	E	138	ALA	C-N-CA	-5.69	110.99	121.41
1	M	433	VAL	N-CA-C	5.69	115.89	110.42
4	3	263	GLN	OE1-CD-NE2	-5.69	116.91	122.60
4	W	185	LEU	N-CA-C	5.69	118.42	111.82
1	S	291	ILE	N-CA-C	5.69	117.11	110.62
1	D	217	THR	O-C-N	5.69	129.87	123.27
1	M	739	ASP	CB-CA-C	-5.68	102.89	110.79
1	D	739	ASP	CB-CA-C	-5.68	102.89	110.79
1	S	828	HIS	CA-C-N	5.68	129.15	121.20
1	S	828	HIS	C-N-CA	5.68	129.15	121.20
3	C	63	ILE	CB-CA-C	5.68	120.70	110.48
4	2	263	GLN	OE1-CD-NE2	-5.68	116.92	122.60
4	Y	263	GLN	OE1-CD-NE2	-5.68	116.92	122.60
4	Z	185	LEU	N-CA-C	5.68	118.41	111.82
4	4	262	PHE	CA-CB-CG	-5.68	108.12	113.80
4	3	185	LEU	N-CA-C	5.68	118.41	111.82
1	D	196	PHE	CA-CB-CG	-5.68	108.12	113.80
1	S	22	LYS	CB-CA-C	5.67	118.55	109.02
4	7	263	GLN	OE1-CD-NE2	-5.67	116.92	122.60
3	F	63	ILE	CB-CA-C	5.67	120.69	110.48
1	G	22	LYS	CB-CA-C	5.67	118.55	109.02
1	S	346	ASP	N-CA-CB	-5.67	101.20	109.82
1	A	739	ASP	CB-CA-C	-5.67	102.91	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	22	LYS	CB-CA-C	5.67	118.55	109.02
4	6	263	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	A	346	ASP	N-CA-CB	-5.67	101.20	109.82
4	8	185	LEU	N-CA-C	5.67	118.39	111.82
1	D	828	HIS	CA-C-N	5.67	129.13	121.20
1	D	828	HIS	C-N-CA	5.67	129.13	121.20
4	5	263	GLN	OE1-CD-NE2	-5.67	116.94	122.60
4	9	263	GLN	OE1-CD-NE2	-5.67	116.94	122.60
1	S	568	PRO	CB-CA-C	-5.66	103.98	111.23
4	V	262	PHE	CA-CB-CG	-5.66	108.14	113.80
1	D	351	ILE	CB-CA-C	-5.66	104.64	111.88
1	A	351	ILE	CB-CA-C	-5.66	104.64	111.88
1	M	351	ILE	CB-CA-C	-5.66	104.64	111.88
4	X	185	LEU	N-CA-C	5.66	118.38	111.82
1	J	433	VAL	N-CA-C	5.66	115.85	110.42
1	M	291	ILE	N-CA-C	5.65	117.06	110.62
3	U	63	ILE	CB-CA-C	5.65	120.65	110.48
4	2	185	LEU	N-CA-C	5.65	118.38	111.82
4	9	185	LEU	N-CA-C	5.65	118.38	111.82
4	1	185	LEU	N-CA-C	5.65	118.37	111.82
4	5	185	LEU	N-CA-C	5.65	118.37	111.82
4	Y	185	LEU	N-CA-C	5.65	118.37	111.82
1	D	346	ASP	N-CA-CB	-5.64	101.24	109.82
4	3	262	PHE	CA-CB-CG	-5.64	108.16	113.80
4	W	262	PHE	CA-CB-CG	-5.64	108.16	113.80
4	7	262	PHE	CA-CB-CG	-5.64	108.16	113.80
4	4	185	LEU	N-CA-C	5.64	118.36	111.82
1	D	433	VAL	N-CA-C	5.64	115.83	110.42
3	L	63	ILE	CB-CA-C	5.64	120.63	110.48
1	J	568	PRO	CB-CA-C	-5.64	104.01	111.23
4	W	263	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	A	433	VAL	N-CA-C	5.63	115.83	110.42
4	8	135	ALA	O-C-N	-5.63	116.75	123.06
4	Y	262	PHE	CA-CB-CG	-5.63	108.17	113.80
1	J	346	ASP	N-CA-CB	-5.63	101.26	109.82
4	8	262	PHE	CA-CB-CG	-5.63	108.17	113.80
1	A	196	PHE	CA-CB-CG	-5.63	108.17	113.80
1	D	291	ILE	N-CA-C	5.63	117.03	110.62
4	1	262	PHE	CA-CB-CG	-5.63	108.17	113.80
4	6	262	PHE	CA-CB-CG	-5.62	108.17	113.80
4	Z	262	PHE	CA-CB-CG	-5.62	108.17	113.80
1	D	755	HIS	CA-C-N	5.62	129.53	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	755	HIS	C-N-CA	5.62	129.53	121.71
1	J	22	LYS	CB-CA-C	5.62	118.46	109.02
4	X	263	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	A	755	HIS	CA-C-N	5.62	129.52	121.71
1	A	755	HIS	C-N-CA	5.62	129.52	121.71
1	J	755	HIS	CA-C-N	5.62	129.52	121.71
1	J	755	HIS	C-N-CA	5.62	129.52	121.71
1	M	568	PRO	CB-CA-C	-5.62	104.04	111.23
1	S	257	THR	N-CA-C	-5.62	104.85	110.97
4	V	135	ALA	O-C-N	-5.62	116.77	123.06
1	A	257	THR	N-CA-C	-5.61	104.85	110.97
1	G	623	PHE	CB-CG-CD2	-5.61	111.16	120.70
1	A	828	HIS	CA-C-N	5.61	129.05	121.20
1	A	828	HIS	C-N-CA	5.61	129.05	121.20
3	O	63	ILE	CB-CA-C	5.61	120.57	110.48
4	Z	263	GLN	OE1-CD-NE2	-5.61	117.00	122.60
1	J	351	ILE	CB-CA-C	-5.60	104.71	111.88
1	J	257	THR	N-CA-C	-5.60	104.87	110.97
1	M	257	THR	N-CA-C	-5.60	104.87	110.97
1	S	351	ILE	CB-CA-C	-5.59	104.72	111.88
1	G	351	ILE	CB-CA-C	-5.59	104.72	111.88
1	D	257	THR	N-CA-C	-5.59	104.88	110.97
4	Z	44	MET	N-CA-C	-5.58	102.26	110.52
4	5	262	PHE	CA-CB-CG	-5.58	108.22	113.80
1	G	333	ALA	CA-C-O	5.57	126.86	120.90
1	G	785	GLU	CA-C-N	-5.57	111.94	121.97
1	G	785	GLU	C-N-CA	-5.57	111.94	121.97
1	A	568	PRO	CB-CA-C	-5.57	104.10	111.23
1	G	755	HIS	CA-C-N	5.57	129.45	121.71
1	G	755	HIS	C-N-CA	5.57	129.45	121.71
1	S	623	PHE	CB-CG-CD2	-5.57	111.23	120.70
4	9	44	MET	N-CA-C	-5.57	102.28	110.52
1	A	623	PHE	CB-CG-CD2	-5.57	111.24	120.70
1	J	309	PRO	CB-CA-C	-5.57	103.56	111.68
1	M	755	HIS	CA-C-N	5.56	129.44	121.71
1	M	755	HIS	C-N-CA	5.56	129.44	121.71
4	W	44	MET	N-CA-C	-5.56	102.29	110.52
1	D	623	PHE	CB-CG-CD2	-5.56	111.25	120.70
1	G	346	ASP	N-CA-CB	-5.56	101.37	109.82
1	M	623	PHE	CB-CG-CD2	-5.55	111.26	120.70
4	2	262	PHE	CA-CB-CG	-5.55	108.25	113.80
1	G	568	PRO	CB-CA-C	-5.55	104.12	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	671	PHE	N-CA-C	5.55	118.86	109.76
1	J	623	PHE	CB-CG-CD2	-5.55	111.26	120.70
1	S	671	PHE	N-CA-C	5.55	118.86	109.76
4	V	44	MET	N-CA-C	-5.55	102.31	110.52
4	3	44	MET	N-CA-C	-5.55	102.31	110.52
4	8	137	GLN	CA-C-O	-5.55	115.17	121.00
1	M	671	PHE	N-CA-C	5.55	118.86	109.76
1	J	671	PHE	N-CA-C	5.54	118.86	109.76
4	2	44	MET	N-CA-C	-5.54	102.31	110.52
4	8	349	LEU	CA-C-N	5.54	127.71	120.28
4	8	349	LEU	C-N-CA	5.54	127.71	120.28
4	2	200	PHE	CA-C-O	5.54	127.93	121.11
4	7	44	MET	N-CA-C	-5.54	102.32	110.52
1	D	671	PHE	N-CA-C	5.54	118.84	109.76
1	D	309	PRO	CB-CA-C	-5.53	103.60	111.68
4	3	275	HIS	CB-CG-CD2	-5.53	124.01	131.20
4	5	44	MET	N-CA-C	-5.53	102.34	110.52
1	M	309	PRO	CB-CA-C	-5.52	103.62	111.68
4	X	312	ARG	NE-CZ-NH2	5.52	124.17	119.20
4	9	137	GLN	CA-C-O	-5.52	115.20	121.00
4	X	275	HIS	CB-CG-CD2	-5.52	124.02	131.20
1	S	196	PHE	CA-CB-CG	-5.52	108.28	113.80
4	8	44	MET	N-CA-C	-5.52	102.36	110.52
4	W	200	PHE	CA-C-O	5.51	127.89	121.11
1	S	309	PRO	CB-CA-C	-5.51	103.63	111.68
4	4	44	MET	N-CA-C	-5.51	102.36	110.52
4	6	137	GLN	CA-C-O	-5.51	115.21	121.00
4	Y	44	MET	N-CA-C	-5.51	102.36	110.52
4	8	312	ARG	NE-CZ-NH2	5.51	124.16	119.20
1	G	257	THR	N-CA-C	-5.51	104.97	110.97
1	S	755	HIS	CA-C-N	5.51	129.37	121.71
1	S	755	HIS	C-N-CA	5.51	129.37	121.71
4	4	275	HIS	CB-CG-CD2	-5.51	124.04	131.20
4	1	44	MET	N-CA-C	-5.51	102.37	110.52
4	6	275	HIS	CB-CG-CD2	-5.51	124.04	131.20
4	Y	200	PHE	CA-C-O	5.51	127.88	121.11
4	Z	275	HIS	CB-CG-CD2	-5.50	124.04	131.20
4	1	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	Z	31	PHE	CA-CB-CG	5.50	119.30	113.80
1	D	568	PRO	CB-CA-C	-5.50	104.19	111.23
1	S	333	ALA	CA-C-O	5.50	126.79	120.90
4	1	312	ARG	NE-CZ-NH2	5.50	124.15	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	8	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	J	196	PHE	CA-CB-CG	-5.50	108.30	113.80
1	M	196	PHE	CA-CB-CG	-5.50	108.30	113.80
4	1	137	GLN	CA-C-O	-5.50	115.23	121.00
4	5	349	LEU	CA-C-N	5.50	127.65	120.28
4	5	349	LEU	C-N-CA	5.50	127.65	120.28
4	W	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	9	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	Y	275	HIS	CB-CG-CD2	-5.50	124.05	131.20
4	Z	349	LEU	CA-C-N	5.50	127.65	120.28
4	Z	349	LEU	C-N-CA	5.50	127.65	120.28
1	G	309	PRO	CB-CA-C	-5.50	103.66	111.68
1	G	718	ALA	O-C-N	5.50	128.41	122.15
4	X	200	PHE	CA-C-O	5.49	127.87	121.11
4	5	275	HIS	CB-CG-CD2	-5.49	124.06	131.20
4	7	200	PHE	CA-C-O	5.49	127.86	121.11
4	W	312	ARG	NE-CZ-NH2	5.49	124.14	119.20
4	5	116	ARG	N-CA-C	-5.49	105.30	111.28
4	2	116	ARG	N-CA-C	-5.49	105.30	111.28
4	7	137	GLN	CA-C-O	-5.48	115.24	121.00
1	D	203	GLY	N-CA-C	-5.48	106.25	115.62
1	J	333	ALA	CA-C-O	5.48	126.77	120.90
4	2	275	HIS	CB-CG-CD2	-5.48	124.08	131.20
4	6	349	LEU	CA-C-N	5.48	127.62	120.28
4	6	349	LEU	C-N-CA	5.48	127.62	120.28
4	7	312	ARG	NE-CZ-NH2	5.48	124.13	119.20
4	V	275	HIS	CB-CG-CD2	-5.48	124.08	131.20
4	Y	116	ARG	N-CA-C	-5.48	105.31	111.28
4	Z	137	GLN	CA-C-O	-5.48	115.25	121.00
4	Z	200	PHE	CA-C-O	5.48	127.85	121.11
4	Z	226	GLU	N-CA-C	-5.48	107.25	114.04
1	A	671	PHE	N-CA-C	5.47	118.74	109.76
4	9	116	ARG	N-CA-C	-5.47	105.31	111.28
4	1	200	PHE	CA-C-O	5.47	127.84	121.11
4	X	44	MET	N-CA-C	-5.47	102.42	110.52
4	9	226	GLU	N-CA-C	-5.47	107.26	114.04
4	V	200	PHE	CA-C-O	5.47	127.84	121.11
4	V	312	ARG	NE-CZ-NH2	5.47	124.12	119.20
4	Y	349	LEU	CA-C-N	5.47	127.61	120.28
4	Y	349	LEU	C-N-CA	5.47	127.61	120.28
1	M	785	GLU	N-CA-C	-5.47	104.35	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	200	PHE	CA-C-O	5.47	127.83	121.11
4	6	44	MET	N-CA-C	-5.47	102.43	110.52
4	5	137	GLN	CA-C-O	-5.46	115.26	121.00
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
1	D	632	GLY	N-CA-C	5.46	120.77	114.16
4	W	116	ARG	N-CA-C	-5.46	105.33	111.28
1	A	333	ALA	CA-C-O	5.46	126.74	120.90
4	3	312	ARG	NE-CZ-NH2	5.46	124.11	119.20
4	Y	137	GLN	CA-C-O	-5.46	115.27	121.00
4	3	226	GLU	N-CA-C	-5.46	107.27	114.04
4	V	349	LEU	CA-C-N	5.46	127.59	120.28
4	V	349	LEU	C-N-CA	5.46	127.59	120.28
4	3	116	ARG	N-CA-C	-5.46	105.33	111.28
4	9	312	ARG	NE-CZ-NH2	5.46	124.11	119.20
1	J	173	GLN	N-CA-CB	-5.46	102.87	111.05
4	5	312	ARG	NE-CZ-NH2	5.45	124.11	119.20
4	Y	31	PHE	CA-CB-CG	5.45	119.25	113.80
1	A	309	PRO	CB-CA-C	-5.45	103.72	111.68
4	1	349	LEU	CA-C-N	5.45	127.58	120.28
4	1	349	LEU	C-N-CA	5.45	127.58	120.28
4	V	116	ARG	N-CA-C	-5.45	105.34	111.28
4	W	349	LEU	CA-C-N	5.45	127.58	120.28
4	W	349	LEU	C-N-CA	5.45	127.58	120.28
1	S	173	GLN	N-CA-CB	-5.45	102.88	111.05
4	4	31	PHE	CA-CB-CG	5.45	119.25	113.80
4	7	349	LEU	CA-C-N	5.45	127.58	120.28
4	7	349	LEU	C-N-CA	5.45	127.58	120.28
4	9	200	PHE	CA-C-O	5.45	127.81	121.11
4	6	200	PHE	CA-C-O	5.45	127.81	121.11
1	G	203	GLY	N-CA-C	-5.44	106.31	115.62
4	2	312	ARG	NE-CZ-NH2	5.44	124.10	119.20
1	A	305	ILE	CB-CA-C	-5.44	103.72	111.34
1	D	333	ALA	CA-C-O	5.44	126.72	120.90
4	5	200	PHE	CA-C-O	5.44	127.81	121.11
4	3	137	GLN	CA-C-O	-5.44	115.29	121.00
4	4	200	PHE	CA-C-O	5.44	127.80	121.11
4	4	349	LEU	CA-C-N	5.44	127.57	120.28
4	4	349	LEU	C-N-CA	5.44	127.57	120.28
4	W	137	GLN	CA-C-O	-5.44	115.29	121.00
4	X	349	LEU	CA-C-N	5.44	127.57	120.28
4	X	349	LEU	C-N-CA	5.44	127.57	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	305	ILE	CB-CA-C	-5.44	103.72	111.34
1	G	632	GLY	N-CA-C	5.44	120.74	114.16
4	8	226	GLU	N-CA-C	-5.44	107.30	114.04
1	M	173	GLN	N-CA-CB	-5.44	102.89	111.05
4	2	137	GLN	CA-C-O	-5.44	115.29	121.00
4	4	116	ARG	N-CA-C	-5.44	105.35	111.28
4	6	312	ARG	NE-CZ-NH2	5.44	124.09	119.20
4	9	31	PHE	CA-CB-CG	5.44	119.24	113.80
4	2	226	GLU	N-CA-C	-5.44	107.30	114.04
1	S	203	GLY	N-CA-C	-5.43	106.33	115.62
4	4	137	GLN	CA-C-O	-5.43	115.30	121.00
4	8	31	PHE	CA-CB-CG	5.43	119.23	113.80
4	8	200	PHE	CA-C-O	5.43	127.80	121.11
4	V	31	PHE	CA-CB-CG	5.43	119.23	113.80
4	X	137	GLN	CA-C-O	-5.43	115.30	121.00
4	Y	226	GLU	N-CA-C	-5.43	107.30	114.04
4	1	226	GLU	N-CA-C	-5.43	107.31	114.04
4	5	31	PHE	CA-CB-CG	5.43	119.23	113.80
1	M	333	ALA	CA-C-O	5.43	126.71	120.90
1	A	632	GLY	N-CA-C	5.43	120.73	114.16
1	J	203	GLY	N-CA-C	-5.43	106.34	115.62
4	7	31	PHE	CA-CB-CG	5.43	119.23	113.80
1	G	196	PHE	CA-CB-CG	-5.42	108.38	113.80
4	3	349	LEU	CA-C-N	5.42	127.55	120.28
4	3	349	LEU	C-N-CA	5.42	127.55	120.28
4	Z	312	ARG	NE-CZ-NH2	5.42	124.08	119.20
4	6	226	GLU	N-CA-C	-5.42	107.31	114.04
4	1	237	GLU	N-CA-C	5.42	117.29	110.24
4	2	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	3	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	4	226	GLU	N-CA-C	-5.42	107.32	114.04
4	6	31	PHE	CA-CB-CG	5.42	119.22	113.80
4	8	79	TRP	CG-CD2-CE3	5.42	139.32	133.90
1	G	173	GLN	N-CA-CB	-5.42	102.92	111.05
4	V	237	GLU	N-CA-C	5.42	117.28	110.24
1	A	329	GLU	CA-C-O	5.42	126.16	120.42
4	X	31	PHE	CA-CB-CG	5.42	119.22	113.80
1	G	305	ILE	CB-CA-C	-5.41	103.76	111.34
4	2	349	LEU	O-C-N	5.41	129.53	122.87
4	V	137	GLN	CA-C-O	-5.41	115.32	121.00
1	M	291	ILE	CB-CA-C	-5.41	104.95	112.04
4	5	226	GLU	N-CA-C	-5.41	107.33	114.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2	237	GLU	N-CA-C	5.41	117.27	110.24
4	W	31	PHE	CA-CB-CG	5.41	119.21	113.80
1	A	173	GLN	N-CA-CB	-5.41	102.94	111.05
4	6	116	ARG	N-CA-C	-5.41	105.39	111.28
4	W	226	GLU	N-CA-C	-5.41	107.34	114.04
4	1	31	PHE	CA-CB-CG	5.40	119.20	113.80
4	8	257	CYS	N-CA-CB	-5.40	105.26	110.39
1	S	632	GLY	N-CA-C	5.40	120.69	114.16
4	X	257	CYS	N-CA-CB	-5.40	105.26	110.39
4	2	349	LEU	CA-C-N	5.40	127.52	120.28
4	2	349	LEU	C-N-CA	5.40	127.52	120.28
1	M	305	ILE	CB-CA-C	-5.40	103.78	111.34
4	9	257	CYS	N-CA-CB	-5.40	105.26	110.39
4	Y	312	ARG	NE-CZ-NH2	5.40	124.06	119.20
4	1	257	CYS	N-CA-CB	-5.39	105.27	110.39
4	8	116	ARG	N-CA-C	-5.39	105.40	111.28
4	3	237	GLU	N-CA-C	5.39	117.25	110.24
4	7	226	GLU	N-CA-C	-5.39	107.35	114.04
4	8	237	GLU	N-CA-C	5.39	117.25	110.24
4	V	226	GLU	N-CA-C	-5.39	107.35	114.04
4	1	116	ARG	N-CA-C	-5.39	105.40	111.28
4	W	237	GLU	N-CA-C	5.39	117.25	110.24
1	A	203	GLY	N-CA-C	-5.39	106.41	115.62
1	J	291	ILE	CB-CA-C	-5.39	104.98	112.04
1	M	203	GLY	N-CA-C	-5.39	106.41	115.62
1	D	291	ILE	CB-CA-C	-5.39	104.98	112.04
4	9	91	TYR	N-CA-C	5.39	119.02	112.23
4	7	116	ARG	N-CA-C	-5.38	105.41	111.28
4	7	237	GLU	N-CA-C	5.38	117.24	110.24
1	S	305	ILE	CB-CA-C	-5.38	103.80	111.34
4	X	116	ARG	N-CA-C	-5.38	105.41	111.28
1	M	632	GLY	N-CA-C	5.38	120.67	114.16
1	A	654	ARG	CA-C-N	5.38	127.49	120.28
1	A	654	ARG	C-N-CA	5.38	127.49	120.28
4	7	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	Y	237	GLU	N-CA-C	5.38	117.23	110.24
1	J	632	GLY	N-CA-C	5.38	120.67	114.16
4	4	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	4	312	ARG	NE-CZ-NH2	5.38	124.04	119.20
4	6	257	CYS	N-CA-CB	-5.38	105.28	110.39
4	X	226	GLU	N-CA-C	-5.38	107.37	114.04
1	D	447	GLN	CB-CA-C	5.38	119.71	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4	237	GLU	N-CA-C	5.38	117.23	110.24
4	8	77	THR	N-CA-CB	-5.38	102.62	110.47
1	M	447	GLN	CB-CA-C	5.37	119.71	110.79
4	V	257	CYS	N-CA-CB	-5.37	105.29	110.39
4	W	257	CYS	N-CA-CB	-5.37	105.29	110.39
1	D	173	GLN	N-CA-CB	-5.37	103.00	111.05
1	M	785	GLU	CA-C-N	5.37	131.63	121.97
1	M	785	GLU	C-N-CA	5.37	131.63	121.97
4	X	77	THR	N-CA-CB	-5.37	102.63	110.47
4	1	332	PRO	CA-C-N	5.37	124.70	118.85
4	1	332	PRO	C-N-CA	5.37	124.70	118.85
1	J	305	ILE	CB-CA-C	-5.36	103.83	111.34
4	1	79	TRP	CG-CD2-CE3	5.36	139.26	133.90
4	Z	79	TRP	CG-CD2-CE3	5.36	139.26	133.90
2	B	127	ARG	NE-CZ-NH2	5.36	124.03	119.20
4	7	332	PRO	CA-C-N	5.36	124.69	118.85
4	7	332	PRO	C-N-CA	5.36	124.69	118.85
4	6	237	GLU	N-CA-C	5.36	117.21	110.24
4	9	237	GLU	N-CA-C	5.36	117.21	110.24
4	5	257	CYS	N-CA-CB	-5.36	105.30	110.39
4	Z	116	ARG	N-CA-C	-5.36	105.44	111.28
4	4	349	LEU	O-C-N	5.36	129.46	122.87
4	5	237	GLU	N-CA-C	5.36	117.20	110.24
4	5	332	PRO	CA-C-N	5.35	124.69	118.85
4	5	332	PRO	C-N-CA	5.35	124.69	118.85
1	G	772	LEU	N-CA-C	-5.35	104.90	111.75
4	2	91	TYR	N-CA-C	5.35	118.97	112.23
4	W	332	PRO	CA-C-N	5.35	124.69	118.85
4	W	332	PRO	C-N-CA	5.35	124.69	118.85
4	2	257	CYS	N-CA-CB	-5.35	105.31	110.39
4	W	91	TYR	N-CA-C	5.35	118.97	112.23
4	3	349	LEU	O-C-N	5.35	129.45	122.87
4	4	332	PRO	CA-C-N	5.35	124.68	118.85
4	4	332	PRO	C-N-CA	5.35	124.68	118.85
4	X	79	TRP	CG-CD2-CE3	5.35	139.25	133.90
4	Y	77	THR	N-CA-CB	-5.34	102.67	110.47
1	S	291	ILE	CB-CA-C	-5.34	105.04	112.04
4	Y	257	CYS	N-CA-CB	-5.34	105.31	110.39
1	A	291	ILE	CB-CA-C	-5.34	105.04	111.88
1	G	447	GLN	CB-CA-C	5.34	119.66	110.79
4	X	237	GLU	N-CA-C	5.34	117.19	110.24
4	X	251	GLY	O-C-N	5.34	129.64	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	91	TYR	N-CA-C	5.34	118.96	112.23
4	2	79	TRP	CG-CD2-CE3	5.34	139.24	133.90
1	S	447	GLN	CB-CA-C	5.33	119.64	110.79
1	G	649	VAL	CA-C-N	5.33	131.72	121.54
1	G	649	VAL	C-N-CA	5.33	131.72	121.54
4	5	251	GLY	O-C-N	5.33	129.63	122.70
4	Y	332	PRO	CA-C-N	5.33	124.66	118.85
4	Y	332	PRO	C-N-CA	5.33	124.66	118.85
4	Z	257	CYS	N-CA-CB	-5.33	105.33	110.39
4	7	349	LEU	O-C-N	5.33	129.42	122.87
4	V	77	THR	N-CA-CB	-5.33	102.69	110.47
1	M	669	PRO	N-CA-CB	5.33	108.06	103.27
4	3	91	TYR	N-CA-C	5.33	118.94	112.23
1	J	649	VAL	CA-C-N	5.33	131.71	121.54
1	J	649	VAL	C-N-CA	5.33	131.71	121.54
4	W	251	GLY	O-C-N	5.33	129.62	122.70
4	6	91	TYR	N-CA-C	5.32	118.94	112.23
4	9	349	LEU	O-C-N	5.32	129.42	122.87
4	Y	251	GLY	O-C-N	5.32	129.62	122.70
4	6	77	THR	N-CA-CB	-5.32	102.70	110.47
1	D	649	VAL	CA-C-N	5.32	131.70	121.54
1	D	649	VAL	C-N-CA	5.32	131.70	121.54
1	S	669	PRO	N-CA-CB	5.32	108.06	103.27
4	5	91	TYR	N-CA-C	5.32	118.93	112.23
4	7	251	GLY	O-C-N	5.32	129.62	122.70
4	1	251	GLY	O-C-N	5.32	129.62	122.70
4	1	349	LEU	O-C-N	5.32	129.41	122.87
4	X	332	PRO	CA-C-N	5.32	124.65	118.85
4	X	332	PRO	C-N-CA	5.32	124.65	118.85
1	D	772	LEU	N-CA-C	-5.32	104.95	111.75
1	J	447	GLN	CB-CA-C	5.32	119.61	110.79
4	3	251	GLY	O-C-N	5.32	129.61	122.70
4	4	251	GLY	O-C-N	5.32	129.61	122.70
4	V	91	TYR	N-CA-C	5.32	118.93	112.23
4	X	349	LEU	O-C-N	5.32	129.41	122.87
4	1	91	TYR	N-CA-C	5.31	118.92	112.23
4	6	332	PRO	CA-C-N	5.31	124.64	118.85
4	6	332	PRO	C-N-CA	5.31	124.64	118.85
1	S	649	VAL	CA-C-N	5.31	131.69	121.54
1	S	649	VAL	C-N-CA	5.31	131.69	121.54
4	3	257	CYS	N-CA-CB	-5.31	105.34	110.39
4	Z	237	GLU	N-CA-C	5.31	117.15	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	129	THR	O-C-N	-5.31	115.21	121.32
1	M	649	VAL	CA-C-N	5.31	131.68	121.54
1	M	649	VAL	C-N-CA	5.31	131.68	121.54
2	N	129	THR	O-C-N	-5.31	115.21	121.32
4	4	77	THR	N-CA-CB	-5.31	102.72	110.47
4	2	77	THR	N-CA-CB	-5.31	102.72	110.47
1	A	592	ILE	N-CA-CB	-5.31	102.47	111.23
1	G	654	ARG	CA-C-N	5.30	127.39	120.28
1	G	654	ARG	C-N-CA	5.30	127.39	120.28
4	3	332	PRO	CA-C-N	5.30	124.63	118.85
4	3	332	PRO	C-N-CA	5.30	124.63	118.85
4	7	91	TYR	N-CA-C	5.30	118.91	112.23
4	5	77	THR	N-CA-CB	-5.30	102.73	110.47
4	8	349	LEU	O-C-N	5.30	129.39	122.87
2	E	129	THR	O-C-N	-5.30	115.22	121.32
4	2	251	GLY	O-C-N	5.30	129.59	122.70
4	3	79	TRP	CG-CD2-CE3	5.30	139.20	133.90
4	7	77	THR	N-CA-CB	-5.30	102.73	110.47
1	G	291	ILE	CB-CA-C	-5.30	105.10	111.88
4	6	349	LEU	O-C-N	5.30	129.38	122.87
4	W	349	LEU	O-C-N	5.30	129.38	122.87
2	H	129	THR	N-CA-CB	5.29	119.80	110.37
1	S	720	PHE	CA-CB-CG	-5.29	108.51	113.80
1	A	720	PHE	CA-CB-CG	-5.29	108.51	113.80
4	Y	91	TYR	N-CA-C	5.29	118.90	112.23
4	Z	77	THR	N-CA-CB	-5.29	102.74	110.47
1	A	447	GLN	CB-CA-C	5.29	119.57	110.79
2	K	129	THR	O-C-N	-5.29	115.24	121.32
4	2	332	PRO	CA-C-N	5.29	124.61	118.85
4	2	332	PRO	C-N-CA	5.29	124.61	118.85
4	6	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
4	Y	79	TRP	CG-CD2-CE3	5.29	139.19	133.90
1	S	592	ILE	N-CA-CB	-5.29	102.51	111.23
4	4	91	TYR	N-CA-C	5.29	118.89	112.23
4	9	77	THR	N-CA-CB	-5.29	102.75	110.47
4	V	349	LEU	O-C-N	5.29	129.37	122.87
4	W	77	THR	N-CA-CB	-5.29	102.75	110.47
4	5	62	ARG	CA-CB-CG	5.28	124.67	114.10
4	Z	251	GLY	O-C-N	5.28	129.57	122.70
4	W	356	TRP	CE2-CD2-CG	-5.28	100.86	107.20
4	X	91	TYR	N-CA-C	5.28	118.88	112.23
4	Z	332	PRO	CA-C-N	5.28	124.60	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	332	PRO	C-N-CA	5.28	124.60	118.85
4	8	251	GLY	O-C-N	5.28	129.56	122.70
4	9	251	GLY	O-C-N	5.28	129.56	122.70
4	1	77	THR	N-CA-CB	-5.28	102.77	110.47
4	V	332	PRO	CA-C-N	5.28	124.60	118.85
4	V	332	PRO	C-N-CA	5.28	124.60	118.85
1	D	267	THR	OG1-CB-CG2	5.27	119.85	109.30
1	M	592	ILE	N-CA-CB	-5.27	102.53	111.23
4	2	62	ARG	CA-CB-CG	5.27	124.64	114.10
1	J	592	ILE	N-CA-CB	-5.27	102.53	111.23
1	G	592	ILE	N-CA-CB	-5.27	102.54	111.23
1	A	649	VAL	CA-C-N	5.27	131.60	121.54
1	A	649	VAL	C-N-CA	5.27	131.60	121.54
1	A	669	PRO	N-CA-CB	5.27	108.01	103.27
1	S	601	ASP	CA-CB-CG	-5.27	107.33	112.60
3	U	63	ILE	CG1-CB-CG2	-5.27	94.90	110.70
4	6	251	GLY	O-C-N	5.27	129.55	122.70
1	D	157	SER	O-C-N	5.27	127.78	122.09
2	E	127	ARG	NE-CZ-NH2	5.26	123.94	119.20
4	3	77	THR	N-CA-CB	-5.26	102.78	110.47
3	C	63	ILE	CG1-CB-CG2	-5.26	94.92	110.70
1	D	329	GLU	CA-C-O	5.26	126.00	120.42
4	6	62	ARG	CA-CB-CG	5.26	124.62	114.10
4	7	62	ARG	CA-CB-CG	5.26	124.62	114.10
3	I	63	ILE	CG1-CB-CG2	-5.26	94.92	110.70
4	3	62	ARG	CA-CB-CG	5.26	124.62	114.10
4	8	91	TYR	N-CA-C	5.26	118.86	112.23
4	9	62	ARG	CA-CB-CG	5.26	124.62	114.10
4	9	332	PRO	CA-C-N	5.26	124.58	118.85
4	9	332	PRO	C-N-CA	5.26	124.58	118.85
4	Z	349	LEU	O-C-N	5.26	129.34	122.87
4	7	356	TRP	CE2-CD2-CG	-5.26	100.89	107.20
4	V	251	GLY	O-C-N	5.26	129.53	122.70
1	D	564	ASN	CA-CB-CG	-5.26	107.34	112.60
4	9	79	TRP	CG-CD2-CE3	5.26	139.16	133.90
4	W	62	ARG	CA-CB-CG	5.26	124.61	114.10
1	G	329	GLU	CA-C-O	5.25	125.99	120.42
1	J	669	PRO	N-CA-CB	5.25	108.00	103.27
1	A	772	LEU	N-CA-C	-5.25	105.03	111.75
4	V	62	ARG	CA-CB-CG	5.25	124.60	114.10
4	Y	62	ARG	CA-CB-CG	5.25	124.60	114.10
4	Z	62	ARG	CA-CB-CG	5.25	124.60	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	601	ASP	CA-CB-CG	-5.25	107.35	112.60
1	D	401	LEU	CD1-CG-CD2	-5.25	99.25	110.80
3	L	63	ILE	CG1-CB-CG2	-5.25	94.95	110.70
4	4	79	TRP	CG-CD2-CE3	5.25	139.15	133.90
4	5	79	TRP	CG-CD2-CE3	5.25	139.15	133.90
3	O	63	ILE	CG1-CB-CG2	-5.25	94.96	110.70
1	D	663	ASN	N-CA-C	-5.25	105.74	111.82
1	G	267	THR	OG1-CB-CG2	5.25	119.79	109.30
1	S	654	ARG	CA-C-N	5.25	127.31	120.28
1	S	654	ARG	C-N-CA	5.25	127.31	120.28
4	2	356	TRP	CE2-CD2-CG	-5.25	100.91	107.20
4	7	252	ASN	CB-CG-ND2	5.24	124.27	116.40
1	D	601	ASP	CA-CB-CG	-5.24	107.36	112.60
1	M	267	THR	OG1-CB-CG2	5.24	119.78	109.30
4	4	62	ARG	CA-CB-CG	5.24	124.58	114.10
4	8	62	ARG	CA-CB-CG	5.24	124.58	114.10
3	F	63	ILE	CG1-CB-CG2	-5.24	94.98	110.70
4	5	349	LEU	O-C-N	5.24	129.31	122.87
4	8	332	PRO	CA-C-N	5.24	124.56	118.85
4	8	332	PRO	C-N-CA	5.24	124.56	118.85
4	W	101	HIS	CA-C-O	-5.24	114.83	119.86
1	D	654	ARG	CA-C-N	5.23	127.29	120.28
1	D	654	ARG	C-N-CA	5.23	127.29	120.28
1	M	772	LEU	N-CA-C	-5.23	105.05	111.75
4	V	101	HIS	CA-C-O	-5.23	114.84	119.86
4	Z	40	HIS	CB-CG-CD2	-5.23	124.40	131.20
4	9	40	HIS	CB-CG-CD2	-5.23	124.40	131.20
4	Y	349	LEU	O-C-N	5.23	129.31	122.87
1	M	329	GLU	CA-C-O	5.23	125.96	120.42
4	1	62	ARG	CA-CB-CG	5.23	124.55	114.10
4	5	356	TRP	CE2-CD2-CG	-5.23	100.93	107.20
4	W	79	TRP	CG-CD2-CE3	5.23	139.13	133.90
1	S	772	LEU	N-CA-C	-5.22	105.07	111.75
1	D	592	ILE	N-CA-CB	-5.22	102.62	111.23
1	J	267	THR	OG1-CB-CG2	5.22	119.74	109.30
1	J	601	ASP	CA-CB-CG	-5.22	107.38	112.60
4	1	22	ALA	N-CA-C	-5.22	102.32	110.10
4	1	356	TRP	CE2-CD2-CG	-5.22	100.94	107.20
4	5	252	ASN	CB-CG-ND2	5.22	124.23	116.40
4	7	79	TRP	CG-CD2-CE3	5.22	139.12	133.90
4	X	62	ARG	CA-CB-CG	5.22	124.54	114.10
1	J	401	LEU	CD1-CG-CD2	-5.22	99.33	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	9	252	ASN	CB-CG-ND2	5.22	124.22	116.40
4	3	22	ALA	N-CA-C	-5.21	102.33	110.10
1	G	401	LEU	CD1-CG-CD2	-5.21	99.33	110.80
1	M	564	ASN	CA-CB-CG	-5.21	107.39	112.60
1	S	401	LEU	CD1-CG-CD2	-5.21	99.33	110.80
2	N	129	THR	N-CA-CB	5.21	119.65	110.37
1	S	267	THR	OG1-CB-CG2	5.21	119.72	109.30
1	G	669	PRO	N-CA-CB	5.21	107.96	103.27
4	8	356	TRP	CE2-CD2-CG	-5.21	100.95	107.20
1	D	720	PHE	CA-CB-CG	-5.21	108.59	113.80
4	8	252	ASN	CB-CG-ND2	5.21	124.21	116.40
4	V	79	TRP	CG-CD2-CE3	5.21	139.11	133.90
1	G	720	PHE	CA-CB-CG	-5.21	108.59	113.80
4	7	40	HIS	CB-CG-CD2	-5.21	124.43	131.20
1	A	267	THR	OG1-CB-CG2	5.20	119.71	109.30
1	G	601	ASP	CA-CB-CG	-5.20	107.40	112.60
4	3	356	TRP	CE2-CD2-CG	-5.20	100.96	107.20
4	4	22	ALA	N-CA-C	-5.20	102.35	110.10
4	5	22	ALA	N-CA-C	-5.20	102.35	110.10
1	A	157	SER	O-C-N	5.20	127.71	122.09
1	A	401	LEU	CD1-CG-CD2	-5.20	99.36	110.80
1	G	564	ASN	CA-CB-CG	-5.20	107.40	112.60
4	Y	252	ASN	CB-CG-ND2	5.20	124.20	116.40
1	A	663	ASN	N-CA-C	-5.20	105.79	111.82
1	M	601	ASP	CA-CB-CG	-5.20	107.40	112.60
1	S	576	GLU	N-CA-CB	5.20	119.08	110.97
4	4	274	ILE	N-CA-CB	-5.20	102.65	111.23
4	4	356	TRP	CE2-CD2-CG	-5.20	100.96	107.20
4	V	356	TRP	CE2-CD2-CG	-5.20	100.96	107.20
4	1	252	ASN	CB-CG-ND2	5.20	124.20	116.40
4	4	40	HIS	CB-CG-CD2	-5.20	124.44	131.20
4	6	356	TRP	CE2-CD2-CG	-5.20	100.96	107.20
2	H	129	THR	O-C-N	-5.20	115.34	121.32
4	7	22	ALA	N-CA-C	-5.20	102.36	110.10
1	J	329	GLU	CA-C-O	5.20	125.93	120.42
1	J	654	ARG	CA-C-N	5.20	127.24	120.28
1	J	654	ARG	C-N-CA	5.20	127.24	120.28
2	K	129	THR	N-CA-CB	5.20	119.62	110.37
4	9	101	HIS	CA-C-O	-5.20	114.87	119.86
4	V	252	ASN	CB-CG-ND2	5.20	124.19	116.40
4	6	274	ILE	N-CA-CB	-5.19	102.66	111.23
1	G	663	ASN	N-CA-C	-5.19	105.80	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	401	LEU	CD1-CG-CD2	-5.19	99.38	110.80
4	8	22	ALA	N-CA-C	-5.19	102.36	110.10
1	M	576	GLU	N-CA-CB	5.19	119.07	110.97
4	4	101	HIS	CA-C-O	-5.19	114.88	119.86
4	1	40	HIS	CB-CG-CD2	-5.19	124.45	131.20
4	2	252	ASN	CB-CG-ND2	5.19	124.18	116.40
4	X	101	HIS	CA-C-O	-5.19	114.88	119.86
4	Y	274	ILE	N-CA-CB	-5.19	102.67	111.23
4	9	356	TRP	CE2-CD2-CG	-5.19	100.97	107.20
1	J	564	ASN	CA-CB-CG	-5.19	107.41	112.60
2	T	129	THR	N-CA-CB	5.19	119.60	110.37
4	2	50	LYS	CB-CG-CD	-5.19	99.37	111.30
4	V	22	ALA	N-CA-C	-5.19	102.37	110.10
2	B	129	THR	N-CA-CB	5.18	119.60	110.37
1	M	663	ASN	N-CA-C	-5.18	105.81	111.82
4	W	40	HIS	CB-CG-CD2	-5.18	124.46	131.20
4	2	101	HIS	CA-C-O	-5.18	114.89	119.86
4	W	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	Z	274	ILE	N-CA-CB	-5.18	102.68	111.23
4	6	248	ILE	N-CA-CB	-5.18	103.41	110.56
4	7	274	ILE	N-CA-CB	-5.18	102.68	111.23
4	Z	22	ALA	N-CA-C	-5.18	102.38	110.10
2	H	127	ARG	NE-CZ-NH2	5.18	123.86	119.20
4	Z	356	TRP	CE2-CD2-CG	-5.18	100.99	107.20
4	5	50	LYS	CB-CG-CD	-5.18	99.39	111.30
4	9	22	ALA	N-CA-C	-5.18	102.38	110.10
1	D	254	PHE	CA-CB-CG	-5.18	108.62	113.80
1	J	772	LEU	N-CA-C	-5.18	105.12	111.75
4	3	252	ASN	CB-CG-ND2	5.18	124.17	116.40
4	W	252	ASN	CB-CG-ND2	5.18	124.16	116.40
3	C	64	THR	O-C-N	5.17	129.58	123.27
1	J	663	ASN	N-CA-C	-5.17	105.82	111.82
1	J	720	PHE	CA-CB-CG	-5.17	108.62	113.80
1	M	654	ARG	CA-C-N	5.17	127.21	120.28
1	M	654	ARG	C-N-CA	5.17	127.21	120.28
1	S	329	GLU	CA-C-O	5.17	125.90	120.42
4	1	50	LYS	CB-CG-CD	-5.17	99.40	111.30
4	1	101	HIS	CA-C-O	-5.17	114.89	119.86
4	2	40	HIS	CB-CG-CD2	-5.17	124.47	131.20
4	4	71	ILE	N-CA-CB	-5.17	105.89	112.15
4	6	34	ILE	CA-CB-CG1	5.17	119.19	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8	34	ILE	CA-CB-CG1	5.17	119.19	110.40
2	B	129	THR	O-C-N	-5.17	115.37	121.32
4	2	274	ILE	N-CA-CB	-5.17	102.70	111.23
1	J	576	GLU	N-CA-CB	5.17	119.04	110.97
4	4	50	LYS	CB-CG-CD	-5.17	99.41	111.30
4	4	252	ASN	CB-CG-ND2	5.17	124.15	116.40
4	9	274	ILE	N-CA-CB	-5.17	102.70	111.23
4	X	252	ASN	CB-CG-ND2	5.17	124.15	116.40
4	X	274	ILE	N-CA-CB	-5.17	102.70	111.23
4	Z	101	HIS	CA-C-O	-5.17	114.90	119.86
4	2	22	ALA	N-CA-C	-5.17	102.40	110.10
4	8	360	GLN	CB-CG-CD	5.17	121.38	112.60
4	Y	22	ALA	N-CA-C	-5.17	102.40	110.10
4	Y	50	LYS	CB-CG-CD	-5.17	99.42	111.30
4	Y	356	TRP	CE2-CD2-CG	-5.17	101.00	107.20
4	9	50	LYS	CB-CG-CD	-5.17	99.42	111.30
4	W	274	ILE	N-CA-CB	-5.17	102.71	111.23
1	J	652	LEU	CB-CA-C	-5.16	102.34	110.86
1	M	720	PHE	CA-CB-CG	-5.16	108.64	113.80
2	N	127	ARG	NE-CZ-NH2	5.16	123.85	119.20
1	S	38	VAL	N-CA-CB	-5.16	102.71	111.23
4	6	252	ASN	CB-CG-ND2	5.16	124.15	116.40
4	8	274	ILE	N-CA-CB	-5.16	102.71	111.23
4	Y	34	ILE	CA-CB-CG1	5.16	119.18	110.40
2	E	129	THR	N-CA-CB	5.16	119.56	110.37
1	A	322	VAL	O-C-N	5.16	125.65	120.59
2	T	127	ARG	NE-CZ-NH2	5.16	123.84	119.20
4	X	248	ILE	N-CA-CB	-5.16	103.44	110.56
4	Z	252	ASN	CB-CG-ND2	5.16	124.14	116.40
1	G	652	LEU	CB-CA-C	-5.16	102.35	110.86
1	S	623	PHE	CB-CG-CD1	5.16	129.47	120.70
4	1	274	ILE	N-CA-CB	-5.16	102.72	111.23
4	6	50	LYS	CB-CG-CD	-5.16	99.44	111.30
1	S	663	ASN	N-CA-C	-5.16	105.84	111.82
1	A	38	VAL	N-CA-CB	-5.16	102.72	111.23
1	D	38	VAL	N-CA-CB	-5.16	102.72	111.23
4	3	101	HIS	CA-C-O	-5.16	114.91	119.86
4	4	34	ILE	CA-CB-CG1	5.16	119.17	110.40
4	5	40	HIS	CB-CG-CD2	-5.16	124.50	131.20
4	5	101	HIS	CA-C-O	-5.16	114.91	119.86
4	7	50	LYS	CB-CG-CD	-5.16	99.44	111.30
4	X	356	TRP	CE2-CD2-CG	-5.16	101.01	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	248	ILE	N-CA-CB	-5.16	103.45	110.56
1	G	157	SER	O-C-N	5.15	127.66	122.09
2	K	127	ARG	NE-CZ-NH2	5.15	123.84	119.20
4	6	40	HIS	CB-CG-CD2	-5.15	124.50	131.20
4	8	248	ILE	N-CA-CB	-5.15	103.45	110.56
4	Z	34	ILE	CA-CB-CG1	5.15	119.16	110.40
1	A	623	PHE	CB-CG-CD1	5.15	129.46	120.70
1	G	38	VAL	N-CA-CB	-5.15	102.73	111.23
4	3	34	ILE	CA-CB-CG1	5.15	119.15	110.40
4	5	149	THR	CA-CB-OG1	-5.15	101.88	109.60
4	8	50	LYS	CB-CG-CD	-5.15	99.45	111.30
4	W	248	ILE	N-CA-CB	-5.15	103.45	110.56
4	X	71	ILE	N-CA-CB	-5.15	105.92	112.15
1	D	669	PRO	N-CA-CB	5.15	107.90	103.27
4	5	274	ILE	N-CA-CB	-5.15	102.73	111.23
4	V	50	LYS	CB-CG-CD	-5.15	99.46	111.30
4	Z	50	LYS	CB-CG-CD	-5.15	99.46	111.30
1	S	564	ASN	CA-CB-CG	-5.15	107.45	112.60
4	W	50	LYS	CB-CG-CD	-5.15	99.46	111.30
4	X	50	LYS	CB-CG-CD	-5.15	99.46	111.30
4	X	233	SER	O-C-N	5.15	129.44	122.59
1	M	38	VAL	N-CA-CB	-5.15	102.74	111.23
4	3	50	LYS	CB-CG-CD	-5.15	99.47	111.30
4	X	34	ILE	CA-CB-CG1	5.15	119.15	110.40
4	5	71	ILE	N-CA-CB	-5.14	105.92	112.15
4	7	233	SER	O-C-N	5.14	129.43	122.59
4	V	274	ILE	N-CA-CB	-5.14	102.74	111.23
4	1	248	ILE	N-CA-CB	-5.14	103.46	110.56
4	3	274	ILE	N-CA-CB	-5.14	102.75	111.23
4	6	22	ALA	N-CA-C	-5.14	102.44	110.10
4	Y	360	GLN	CB-CG-CD	5.14	121.34	112.60
4	Z	233	SER	O-C-N	5.14	129.43	122.59
1	A	564	ASN	CA-CB-CG	-5.14	107.46	112.60
4	W	34	ILE	CA-CB-CG1	5.14	119.14	110.40
4	7	34	ILE	CA-CB-CG1	5.14	119.14	110.40
4	Z	360	GLN	CB-CG-CD	5.14	121.34	112.60
4	2	34	ILE	CA-CB-CG1	5.14	119.13	110.40
4	3	40	HIS	CB-CG-CD2	-5.14	124.52	131.20
4	Y	40	HIS	CB-CG-CD2	-5.14	124.52	131.20
4	4	248	ILE	N-CA-CB	-5.13	103.47	110.56
4	W	360	GLN	CB-CG-CD	5.13	121.33	112.60
4	X	360	GLN	CB-CG-CD	5.13	121.33	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8	101	HIS	CA-C-O	-5.13	114.93	119.86
4	V	71	ILE	N-CA-CB	-5.13	105.94	112.15
1	G	254	PHE	CA-CB-CG	-5.13	108.67	113.80
1	J	38	VAL	N-CA-CB	-5.13	102.76	111.23
1	M	623	PHE	CB-CG-CD1	5.13	129.43	120.70
4	V	227	MET	N-CA-C	-5.13	105.60	111.14
4	1	71	ILE	N-CA-CB	-5.13	105.94	112.15
4	2	71	ILE	N-CA-CB	-5.13	105.94	112.15
4	3	360	GLN	CB-CG-CD	5.13	121.32	112.60
4	5	248	ILE	N-CA-CB	-5.13	103.48	110.56
4	4	360	GLN	CB-CG-CD	5.13	121.32	112.60
4	9	248	ILE	N-CA-CB	-5.13	103.48	110.56
1	J	623	PHE	CB-CG-CD1	5.13	129.42	120.70
1	M	278	GLN	CA-C-O	5.13	127.84	120.51
4	8	71	ILE	N-CA-CB	-5.13	105.95	112.15
4	9	34	ILE	CA-CB-CG1	5.12	119.11	110.40
4	V	233	SER	O-C-N	5.12	129.41	122.59
4	2	248	ILE	N-CA-CB	-5.12	103.49	110.56
4	7	71	ILE	N-CA-CB	-5.12	105.95	112.15
4	V	360	GLN	CB-CG-CD	5.12	121.31	112.60
1	M	322	VAL	O-C-N	5.12	125.61	120.59
4	9	71	ILE	N-CA-CB	-5.12	105.95	112.15
4	X	217	CYS	CA-CB-SG	-5.12	102.62	114.40
1	G	623	PHE	CB-CG-CD1	5.12	129.40	120.70
1	A	221	GLN	O-C-N	5.12	127.41	122.09
1	S	652	LEU	CB-CA-C	-5.12	102.42	110.86
1	D	576	GLU	N-CA-CB	5.12	118.95	110.97
4	W	71	ILE	N-CA-CB	-5.12	105.96	112.15
4	3	248	ILE	N-CA-CB	-5.11	103.50	110.56
4	V	34	ILE	CA-CB-CG1	5.11	119.09	110.40
1	A	576	GLU	N-CA-CB	5.11	118.94	110.97
4	W	233	SER	O-C-N	5.11	129.39	122.59
4	1	34	ILE	CA-CB-CG1	5.11	119.08	110.40
4	7	360	GLN	CB-CG-CD	5.11	121.28	112.60
4	9	360	GLN	CB-CG-CD	5.11	121.29	112.60
1	G	172	ASN	N-CA-CB	5.11	118.21	110.45
1	S	157	SER	O-C-N	5.11	127.60	122.09
4	8	40	HIS	CB-CG-CD2	-5.11	124.56	131.20
4	V	40	HIS	CB-CG-CD2	-5.11	124.56	131.20
4	Y	149	THR	CA-CB-OG1	-5.11	101.94	109.60
4	Y	248	ILE	N-CA-CB	-5.11	103.51	110.56
4	Z	71	ILE	N-CA-CB	-5.11	105.97	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	425	SER	N-CA-CB	5.10	117.71	110.16
4	9	233	SER	O-C-N	5.10	129.38	122.59
4	1	217	CYS	CA-CB-SG	-5.10	102.67	114.40
1	A	694	GLN	CA-C-O	5.10	126.14	120.63
4	4	227	MET	N-CA-C	-5.10	105.63	111.14
4	5	34	ILE	CA-CB-CG1	5.10	119.07	110.40
4	5	217	CYS	CA-CB-SG	-5.10	102.67	114.40
4	8	217	CYS	CA-CB-SG	-5.10	102.67	114.40
4	X	40	HIS	CB-CG-CD2	-5.10	124.57	131.20
1	A	254	PHE	CA-CB-CG	-5.10	108.70	113.80
4	5	360	GLN	CB-CG-CD	5.10	121.26	112.60
4	7	149	THR	CA-CB-OG1	-5.10	101.95	109.60
4	V	248	ILE	N-CA-CB	-5.10	103.53	110.56
4	4	217	CYS	CA-CB-SG	-5.09	102.68	114.40
4	6	360	GLN	CB-CG-CD	5.09	121.26	112.60
4	7	217	CYS	CA-CB-SG	-5.09	102.68	114.40
4	V	217	CYS	CA-CB-SG	-5.09	102.68	114.40
4	W	227	MET	N-CA-C	-5.09	105.64	111.14
1	A	652	LEU	CB-CA-C	-5.09	102.46	110.86
4	6	217	CYS	CA-CB-SG	-5.09	102.69	114.40
4	1	360	GLN	CB-CG-CD	5.09	121.26	112.60
4	2	360	GLN	CB-CG-CD	5.09	121.25	112.60
4	3	71	ILE	N-CA-CB	-5.09	105.99	112.15
1	A	172	ASN	N-CA-CB	5.09	118.19	110.45
4	2	217	CYS	CA-CB-SG	-5.09	102.69	114.40
4	Z	217	CYS	CA-CB-SG	-5.09	102.70	114.40
1	S	278	GLN	CA-C-O	5.09	127.79	120.51
4	6	71	ILE	N-CA-CB	-5.09	105.99	112.15
4	9	217	CYS	CA-CB-SG	-5.09	102.70	114.40
1	D	332	MET	CG-SD-CE	-5.09	89.71	100.90
1	G	221	GLN	O-C-N	5.09	127.38	122.09
1	J	172	ASN	N-CA-CB	5.09	118.18	110.45
1	M	425	SER	N-CA-CB	5.09	117.69	110.16
4	4	149	THR	CA-CB-OG1	-5.09	101.97	109.60
4	Y	217	CYS	CA-CB-SG	-5.09	102.70	114.40
4	2	233	SER	O-C-N	5.08	129.35	122.59
1	A	76	GLN	CA-C-O	5.08	125.18	119.18
1	D	332	MET	CB-CA-C	-5.08	102.21	110.85
1	M	332	MET	CG-SD-CE	-5.08	89.72	100.90
4	1	233	SER	O-C-N	5.08	129.35	122.59
4	7	248	ILE	N-CA-CB	-5.08	103.54	110.56
4	Y	71	ILE	N-CA-CB	-5.08	106.00	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	172	ASN	N-CA-CB	5.08	118.17	110.45
1	G	332	MET	CG-SD-CE	-5.08	89.72	100.90
4	3	227	MET	N-CA-C	-5.08	105.65	111.14
1	D	652	LEU	CB-CA-C	-5.08	102.48	110.86
4	2	227	MET	N-CA-C	-5.08	105.65	111.14
4	3	217	CYS	CA-CB-SG	-5.08	102.72	114.40
4	1	149	THR	CA-CB-OG1	-5.08	101.98	109.60
1	M	172	ASN	N-CA-CB	5.08	118.17	110.45
4	5	233	SER	O-C-N	5.08	129.34	122.59
1	M	424	ASN	CA-CB-CG	5.08	117.67	112.60
4	6	227	MET	N-CA-C	-5.08	105.66	111.14
4	Y	233	SER	O-C-N	5.08	129.34	122.59
1	A	332	MET	CG-SD-CE	-5.07	89.74	100.90
1	A	424	ASN	CA-CB-CG	5.07	117.67	112.60
1	J	157	SER	O-C-N	5.07	127.57	122.09
1	J	278	GLN	CA-C-O	5.07	127.77	120.51
1	M	157	SER	O-C-N	5.07	127.57	122.09
1	S	172	ASN	N-CA-CB	5.07	118.16	110.45
4	5	266	PHE	CA-CB-CG	5.07	118.87	113.80
4	W	217	CYS	CA-CB-SG	-5.07	102.73	114.40
4	Z	227	MET	N-CA-C	-5.07	105.66	111.14
4	6	371	HIS	CB-CG-CD2	-5.07	124.61	131.20
4	7	227	MET	N-CA-C	-5.07	105.66	111.14
1	A	425	SER	N-CA-CB	5.07	117.66	110.16
1	D	595	TRP	O-C-N	5.07	127.36	122.09
1	G	332	MET	CB-CA-C	-5.07	102.23	110.85
4	V	142	LEU	CA-C-O	5.07	126.14	120.82
1	G	576	GLU	N-CA-CB	5.07	118.88	110.97
4	6	149	THR	CA-CB-OG1	-5.07	102.00	109.60
4	9	149	THR	CA-CB-OG1	-5.07	102.00	109.60
4	X	227	MET	N-CA-C	-5.07	105.67	111.14
4	1	371	HIS	CB-CG-CD2	-5.07	124.61	131.20
4	2	149	THR	CA-CB-OG1	-5.07	102.00	109.60
4	9	227	MET	N-CA-C	-5.07	105.67	111.14
1	S	332	MET	CB-CA-C	-5.06	102.24	110.85
4	3	266	PHE	CA-CB-CG	5.06	118.86	113.80
4	Z	149	THR	CA-CB-OG1	-5.06	102.00	109.60
4	1	227	MET	N-CA-C	-5.06	105.67	111.14
4	8	149	THR	CA-CB-OG1	-5.06	102.01	109.60
4	9	266	PHE	CA-CB-CG	5.06	118.86	113.80
1	D	434	TYR	CB-CA-C	-5.06	102.71	110.81
1	J	332	MET	CG-SD-CE	-5.06	89.77	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	332	MET	CG-SD-CE	-5.06	89.77	100.90
4	5	371	HIS	CB-CG-CD2	-5.06	124.62	131.20
4	W	149	THR	CA-CB-OG1	-5.06	102.02	109.60
4	1	266	PHE	CA-CB-CG	5.05	118.86	113.80
1	A	332	MET	CB-CA-C	-5.05	102.26	110.85
4	6	233	SER	O-C-N	5.05	129.31	122.59
1	G	165	PHE	CA-CB-CG	-5.05	108.75	113.80
4	4	371	HIS	CB-CG-CD2	-5.05	124.63	131.20
4	V	371	HIS	CB-CG-CD2	-5.05	124.63	131.20
1	M	165	PHE	CA-CB-CG	-5.05	108.75	113.80
1	M	652	LEU	CB-CA-C	-5.05	102.53	110.86
4	V	149	THR	CA-CB-OG1	-5.05	102.03	109.60
1	J	332	MET	CB-CA-C	-5.05	102.27	110.85
4	8	359	LYS	CB-CG-CD	5.05	122.91	111.30
4	X	359	LYS	CB-CG-CD	5.05	122.91	111.30
1	M	332	MET	CB-CA-C	-5.05	102.27	110.85
4	8	233	SER	O-C-N	5.05	129.30	122.59
4	V	359	LYS	CB-CG-CD	5.05	122.91	111.30
1	G	424	ASN	CA-CB-CG	5.04	117.64	112.60
4	7	266	PHE	CA-CB-CG	5.04	118.84	113.80
4	8	227	MET	N-CA-C	-5.04	105.69	111.14
4	3	149	THR	CA-CB-OG1	-5.04	102.03	109.60
1	S	694	GLN	CA-C-O	5.04	126.07	120.63
4	6	359	LYS	CB-CG-CD	5.04	122.89	111.30
4	9	359	LYS	CB-CG-CD	5.04	122.90	111.30
4	W	359	LYS	CB-CG-CD	5.04	122.89	111.30
4	2	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
4	X	149	THR	CA-CB-OG1	-5.04	102.04	109.60
1	D	675	ILE	N-CA-C	5.04	116.61	108.85
1	J	359	MET	O-C-N	5.04	127.26	122.07
1	J	425	SER	N-CA-CB	5.04	117.62	110.16
4	X	88	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	J	424	ASN	CA-CB-CG	5.04	117.64	112.60
4	2	359	LYS	CB-CG-CD	5.04	122.88	111.30
4	8	356	TRP	CG-CD2-CE3	5.04	138.94	133.90
4	Y	371	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	D	623	PHE	CB-CG-CD1	5.03	129.26	120.70
4	3	371	HIS	CB-CG-CD2	-5.03	124.66	131.20
4	W	356	TRP	CG-CD2-CE3	5.03	138.93	133.90
1	A	359	MET	O-C-N	5.03	127.25	122.07
4	7	356	TRP	CG-CD2-CE3	5.03	138.93	133.90
1	D	76	GLN	CA-C-O	5.03	125.12	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	192	VAL	CA-CB-CG1	-5.03	101.85	110.40
4	5	359	LYS	CB-CG-CD	5.03	122.87	111.30
4	7	371	HIS	CB-CG-CD2	-5.03	124.66	131.20
4	X	371	HIS	CB-CG-CD2	-5.03	124.66	131.20
4	8	266	PHE	CA-CB-CG	5.03	118.83	113.80
1	D	425	SER	N-CA-CB	5.03	117.60	110.16
1	D	694	GLN	CA-C-O	5.03	126.06	120.63
1	G	359	MET	O-C-N	5.03	127.25	122.07
1	J	322	VAL	O-C-N	5.03	125.52	120.59
1	S	192	VAL	CA-CB-CG1	-5.03	101.85	110.40
4	3	233	SER	O-C-N	5.03	129.28	122.59
4	3	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	6	266	PHE	CA-CB-CG	5.03	118.83	113.80
4	1	359	LYS	CB-CG-CD	5.03	122.86	111.30
4	Y	359	LYS	CB-CG-CD	5.03	122.86	111.30
1	A	629	GLU	CA-C-O	-5.02	113.20	119.18
1	S	165	PHE	CA-CB-CG	-5.02	108.78	113.80
1	G	694	GLN	CA-C-O	5.02	126.05	120.63
4	3	356	TRP	CG-CD2-CE3	5.02	138.92	133.90
4	5	349	LEU	CA-C-O	5.02	126.72	121.19
4	8	371	HIS	CB-CG-CD2	-5.02	124.67	131.20
4	W	371	HIS	CB-CG-CD2	-5.02	124.67	131.20
1	J	76	GLN	CA-C-O	5.02	125.11	119.18
1	G	829	TRP	N-CA-C	5.02	116.85	109.42
3	L	64	THR	O-C-N	5.02	129.41	123.24
4	4	359	LYS	CB-CG-CD	5.02	122.84	111.30
4	Y	227	MET	N-CA-C	-5.02	105.72	111.14
4	Z	365	ALA	N-CA-C	5.02	120.24	113.72
1	G	686	MET	N-CA-C	5.02	116.76	108.13
1	A	165	PHE	CA-CB-CG	-5.01	108.79	113.80
1	G	513	ILE	N-CA-CB	-5.01	101.72	110.49
1	J	192	VAL	CA-CB-CG1	-5.01	101.88	110.40
1	S	322	VAL	O-C-N	5.01	125.50	120.59
4	5	88	HIS	CB-CG-CD2	-5.01	124.68	131.20
4	9	371	HIS	CB-CG-CD2	-5.01	124.68	131.20
4	Z	88	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	D	278	GLN	CA-C-O	5.01	127.68	120.51
1	A	434	TYR	CB-CA-C	-5.01	102.79	110.81
1	G	762	HIS	N-CA-C	5.01	121.47	110.80
4	4	233	SER	O-C-N	5.01	129.25	122.59
4	5	365	ALA	N-CA-C	5.01	120.23	113.72
4	7	359	LYS	CB-CG-CD	5.01	122.83	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	161	ASN	CA-CB-CG	-5.01	107.59	112.60
4	7	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
4	V	43	VAL	N-CA-C	5.01	117.22	108.90
1	D	513	ILE	N-CA-CB	-5.01	101.73	110.49
4	Z	349	LEU	CA-C-O	5.01	126.70	121.19
1	J	694	GLN	CA-C-O	5.01	126.04	120.63
4	7	349	LEU	CA-C-O	5.01	126.70	121.19
4	V	86	TRP	CE2-CD2-CG	-5.01	101.19	107.20
4	X	43	VAL	N-CA-C	5.01	117.21	108.90
4	Y	88	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	J	621	LEU	N-CA-C	5.00	116.43	110.97
1	G	76	GLN	CA-C-O	5.00	125.08	119.18
1	J	254	PHE	CA-CB-CG	-5.00	108.80	113.80
4	6	88	HIS	CB-CG-CD2	-5.00	124.69	131.20
4	W	88	HIS	CB-CG-CD2	-5.00	124.70	131.20
4	Y	266	PHE	CA-CB-CG	5.00	118.80	113.80
4	5	43	VAL	N-CA-C	5.00	117.20	108.90
4	Z	359	LYS	CB-CG-CD	5.00	122.81	111.30

All (6) chirality outliers are listed below:

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

All (77) planarity outliers are listed below:

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

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Mol	Chain	Res	Type	Group
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	709	LYS	Mainchain
1	G	98	HIS	Mainchain
2	H	150	TYR	Sidechain
2	H	155	TYR	Mainchain
2	H	22	THR	Mainchain
3	I	75	ALA	Mainchain
3	I	85	GLU	Mainchain
1	J	623	PHE	Sidechain
1	J	637	LYS	Mainchain
1	J	649	VAL	Mainchain
1	J	709	LYS	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	Mainchain
1	M	785	GLU	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
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	S	623	PHE	Sidechain
1	S	637	LYS	Mainchain
1	S	649	VAL	Mainchain
1	S	769	ALA	Mainchain
1	S	785	GLU	Peptide,Mainchain
1	S	98	HIS	Mainchain
2	T	150	TYR	Sidechain
2	T	155	TYR	Mainchain
2	T	22	THR	Mainchain
3	U	75	ALA	Mainchain
3	U	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 ⓘ

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	6763	1498	0
1	D	6797	0	6767	1531	0
1	G	6797	0	6771	1510	0
1	J	6797	0	6769	1504	0
1	M	6797	0	6774	1460	0
1	S	6797	0	6773	1639	0
2	B	1127	0	1085	239	0
2	E	1127	0	1088	276	0
2	H	1127	0	1087	267	0
2	K	1127	0	1088	281	0
2	N	1127	0	1088	253	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	T	1127	0	1089	265	0
3	C	1123	0	1083	189	0
3	F	1123	0	1084	187	0
3	I	1123	0	1082	187	0
3	L	1123	0	1083	170	0
3	O	1123	0	1084	167	0
3	U	1123	0	1084	290	0
4	1	2906	0	2862	159	0
4	2	2906	0	2853	436	0
4	3	2906	0	2865	224	0
4	4	2906	0	2862	204	0
4	5	2906	0	2866	128	0
4	6	2906	0	2866	121	0
4	7	2906	0	2866	82	0
4	8	2906	0	2857	326	0
4	9	2906	0	2855	349	0
4	V	2906	0	2851	390	0
4	W	2906	0	2851	392	0
4	X	2906	0	2862	215	0
4	Y	2906	0	2861	168	0
4	Z	2906	0	2854	398	0
All	All	94966	0	93673	11643	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 (11643) 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	1.17	1.68
4:1:287:ILE:CG1	4:3:203:THR:H	1.06	1.68
1:S:783:LEU:CG	1:S:786:ILE:HD11	1.24	1.68
1:D:813:ILE:HG23	2:E:128:PHE:CZ	1.23	1.66
4:4:287:ILE:HG23	4:6:202:THR:CB	1.20	1.65
1:D:791:GLN:HE22	3:F:115:GLY:CA	1.09	1.65
1:D:508:ILE:HD11	1:D:766:PHE:CE1	1.20	1.65
1:D:508:ILE:CD1	1:D:766:PHE:CE1	1.78	1.65
2:E:144:VAL:HG13	2:E:153:ILE:CG1	1.17	1.65
4:X:291:LYS:HE3	4:Z:243:PRO:CB	1.17	1.64
1:G:831:TRP:CH2	2:H:47:LEU:HD21	1.31	1.64
4:1:287:ILE:CG2	4:3:202:THR:HB	1.25	1.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:144:VAL:HG13	2:B:153:ILE:CG1	1.17	1.63
1:J:84:MLY:HH11	1:J:720:PHE:CD1	1.25	1.63
1:A:505:MLY:HB3	1:A:762:HIS:CD2	1.21	1.63
1:M:798:LEU:HD11	3:O:126:LEU:CD2	1.27	1.63
4:3:287:ILE:CG2	4:5:202:THR:HB	1.24	1.63
1:G:795:ARG:HG2	3:I:118:MET:CE	1.19	1.62
1:D:508:ILE:CD1	1:D:766:PHE:CZ	1.75	1.62
1:M:720:PHE:CE1	1:M:772:LEU:HD21	1.10	1.62
1:M:725:ARG:HE	1:M:733:PRO:CB	1.09	1.62
1:M:818:TYR:CE1	2:N:127:ARG:NH2	1.68	1.61
1:J:797:PHE:CD1	3:L:146:ILE:HG23	1.29	1.61
1:A:725:ARG:HE	1:A:733:PRO:CB	1.09	1.61
1:G:768:MLY:CH2	1:G:772:LEU:HD13	1.15	1.61
1:D:797:PHE:CD1	3:F:146:ILE:HG23	1.31	1.61
1:A:206:LYS:CD	1:A:217:THR:HG23	1.28	1.61
4:4:287:ILE:CG2	4:6:202:THR:HB	1.24	1.61
1:G:795:ARG:CG	3:I:118:MET:HE1	1.20	1.60
1:G:797:PHE:CE2	3:I:126:LEU:HD22	1.11	1.60
2:H:144:VAL:HG13	2:H:153:ILE:CG1	1.17	1.60
2:H:144:VAL:HG13	2:H:153:ILE:CD1	1.22	1.59
1:S:795:ARG:HG2	3:U:118:MET:CE	1.19	1.59
2:T:144:VAL:HG13	2:T:153:ILE:CG1	1.17	1.59
1:G:725:ARG:HE	1:G:733:PRO:CB	1.09	1.58
1:J:792:ALA:CB	3:L:42:THR:HG22	1.31	1.58
1:J:206:LYS:CD	1:J:217:THR:HG23	1.28	1.58
2:B:144:VAL:HG13	2:B:153:ILE:CD1	1.22	1.58
1:G:206:LYS:CD	1:G:217:THR:HG23	1.28	1.58
1:J:710:GLY:CA	1:J:772:LEU:HD22	1.33	1.58
1:M:795:ARG:CG	3:O:118:MET:HE1	1.18	1.58
2:N:144:VAL:HG13	2:N:153:ILE:CD1	1.22	1.57
1:A:538:GLU:CA	4:8:349:LEU:CD1	1.78	1.57
1:J:725:ARG:HE	1:J:733:PRO:CB	1.09	1.57
1:J:798:LEU:CD1	3:L:126:LEU:HD11	1.24	1.57
1:S:727:LEU:HD23	1:S:783:LEU:CB	1.26	1.57
1:D:834:LEU:CD1	2:E:54:MET:HG3	1.34	1.57
1:G:831:TRP:CH2	2:H:47:LEU:CD2	1.85	1.57
4:3:287:ILE:HG23	4:5:202:THR:CB	1.20	1.57
1:A:753:VAL:HG12	1:A:775:LEU:CG	1.35	1.56
1:D:206:LYS:CD	1:D:217:THR:HG23	1.28	1.56
1:D:818:TYR:HB3	2:E:90:GLY:CA	1.34	1.56
2:E:144:VAL:HG13	2:E:153:ILE:CD1	1.22	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:84:MLY:HD3	1:J:724:TYR:CE2	1.39	1.56
1:J:818:TYR:CE1	2:K:127:ARG:NH2	1.68	1.56
1:S:817:GLN:CG	2:T:127:ARG:HD2	1.23	1.56
2:K:144:VAL:HG13	2:K:153:ILE:CD1	1.22	1.56
1:D:538:GLU:CA	4:9:349:LEU:CD1	1.78	1.56
2:K:144:VAL:HG13	2:K:153:ILE:CG1	1.17	1.56
1:M:798:LEU:CD1	3:O:126:LEU:HD21	1.09	1.56
1:A:736:GLN:HA	1:A:743:ALA:CB	1.35	1.55
1:D:834:LEU:HD11	2:E:54:MET:CG	1.22	1.55
1:J:798:LEU:HD11	3:L:126:LEU:CD1	1.20	1.55
1:M:538:GLU:CA	4:Z:349:LEU:CD1	1.79	1.55
1:D:727:LEU:HB2	1:D:782:MLY:CH1	1.08	1.55
1:J:84:MLY:HH21	1:J:720:PHE:CA	1.18	1.55
2:N:144:VAL:HG13	2:N:153:ILE:CG1	1.17	1.55
1:G:530:MET:HG2	4:V:354:GLN:CB	1.35	1.55
1:M:836:PHE:CE1	2:N:159:HIS:HA	1.35	1.55
1:S:641:LYS:HG3	1:S:647:GLN:CG	1.37	1.55
1:A:799:MET:SD	3:C:32:ASP:HB3	1.46	1.54
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.54
1:J:84:MLY:CH2	1:J:720:PHE:HA	1.18	1.54
1:M:795:ARG:NH2	3:O:116:GLU:CB	1.70	1.54
1:G:556:ASP:CG	4:X:47:MET:CE	1.76	1.54
1:J:530:MET:HG2	4:W:354:GLN:CB	1.36	1.54
1:M:720:PHE:CE1	1:M:772:LEU:CD2	1.82	1.54
2:T:144:VAL:HG13	2:T:153:ILE:CD1	1.22	1.54
1:J:538:GLU:CA	4:W:349:LEU:CD1	1.79	1.54
1:S:798:LEU:CD2	3:U:126:LEU:HD11	1.35	1.54
1:G:768:MLY:HH23	1:G:772:LEU:CD1	1.11	1.54
1:M:641:LYS:HG3	1:M:647:GLN:CG	1.37	1.54
1:M:736:GLN:HA	1:M:743:ALA:CB	1.35	1.54
1:S:725:ARG:HE	1:S:733:PRO:CB	1.09	1.54
1:D:641:LYS:HG3	1:D:647:GLN:CG	1.36	1.54
1:D:725:ARG:HE	1:D:733:PRO:CB	1.09	1.54
1:D:736:GLN:HA	1:D:743:ALA:CB	1.35	1.54
1:G:149:GLN:CG	1:G:763:THR:HG21	1.10	1.54
1:G:538:GLU:CA	4:V:349:LEU:CD1	1.79	1.53
4:1:287:ILE:HG23	4:3:202:THR:CB	1.34	1.53
1:S:538:GLU:CA	4:2:349:LEU:CD1	1.79	1.53
1:A:530:MET:HG2	4:8:354:GLN:CB	1.35	1.53
1:J:736:GLN:HA	1:J:743:ALA:CB	1.35	1.53
1:M:206:LYS:CD	1:M:217:THR:HG23	1.28	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:530:MET:HG2	4:Z:354:GLN:CB	1.36	1.53
1:S:206:LYS:CD	1:S:217:THR:HG23	1.28	1.53
1:G:736:GLN:HA	1:G:743:ALA:CB	1.35	1.52
1:G:754:ASP:HA	1:G:779:ARG:CD	1.31	1.52
1:S:530:MET:HG2	4:2:354:GLN:CB	1.36	1.52
1:D:818:TYR:CB	2:E:90:GLY:HA3	1.07	1.52
1:J:710:GLY:HA2	1:J:772:LEU:CD2	1.40	1.52
1:J:817:GLN:CG	2:K:127:ARG:HD2	1.36	1.52
2:K:111:SER:HB2	2:K:148:VAL:C	1.22	1.52
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	1.52
2:B:111:SER:HB2	2:B:148:VAL:C	1.23	1.52
1:D:836:PHE:CZ	2:E:160:GLY:N	1.75	1.52
1:S:727:LEU:CD2	1:S:783:LEU:HB2	1.40	1.52
1:D:508:ILE:HD11	1:D:766:PHE:CZ	0.99	1.51
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.51
1:G:641:LYS:HG3	1:G:647:GLN:CG	1.37	1.51
1:G:757:GLN:HG3	1:G:776:GLU:CG	1.07	1.51
1:G:791:GLN:HE22	3:I:115:GLY:CA	1.18	1.51
1:M:206:LYS:HD3	1:M:217:THR:CG2	1.40	1.51
2:T:111:SER:HB2	2:T:148:VAL:C	1.23	1.51
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.51
2:N:111:SER:HB2	2:N:148:VAL:C	1.22	1.51
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.51
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.29	1.51
1:M:799:MET:SD	3:O:32:ASP:HB3	1.50	1.51
2:B:117:LEU:HD12	2:B:147:ASN:CG	1.30	1.51
1:A:641:LYS:HG3	1:A:647:GLN:CG	1.37	1.51
1:A:753:VAL:CG1	1:A:775:LEU:HG	1.36	1.51
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.51
1:M:720:PHE:HE1	1:M:772:LEU:CD2	1.13	1.51
1:S:736:GLN:HA	1:S:743:ALA:CB	1.35	1.51
1:A:505:MLY:CB	1:A:762:HIS:HD2	0.89	1.50
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.50
2:T:117:LEU:HD12	2:T:147:ASN:CB	1.41	1.50
1:D:530:MET:HG2	4:9:354:GLN:CB	1.35	1.50
1:D:747:LEU:CD1	1:D:782:MLY:HH21	1.39	1.50
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.50
1:M:641:LYS:CD	1:M:647:GLN:CD	1.85	1.50
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	1.50
1:M:783:LEU:HA	1:M:786:ILE:CG1	1.37	1.50
2:T:117:LEU:HD12	2:T:147:ASN:CG	1.29	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:206:LYS:HD3	1:D:217:THR:CG2	1.40	1.50
1:D:798:LEU:HD11	3:F:126:LEU:CD1	1.02	1.50
1:J:95:THR:HA	1:J:713:SER:CB	1.41	1.50
1:J:641:LYS:CD	1:J:647:GLN:CD	1.85	1.49
4:2:112:PRO:HG2	4:3:197:GLY:N	1.19	1.49
1:G:149:GLN:HG2	1:G:763:THR:CG2	1.42	1.49
2:N:117:LEU:HD12	2:N:147:ASN:CG	1.29	1.49
1:A:795:ARG:HB3	3:C:35:ARG:CZ	1.41	1.49
2:N:117:LEU:HD12	2:N:147:ASN:CB	1.42	1.49
1:G:149:GLN:CG	1:G:763:THR:CG2	1.91	1.49
1:G:721:LYS:HG3	1:G:736:GLN:CG	1.15	1.49
2:K:117:LEU:HD12	2:K:147:ASN:CB	1.41	1.49
1:M:783:LEU:CG	1:M:786:ILE:HD11	1.05	1.49
1:S:792:ALA:CB	3:U:42:THR:HG22	1.41	1.49
2:B:117:LEU:HD12	2:B:147:ASN:CB	1.42	1.48
1:J:797:PHE:CE1	3:L:146:ILE:HG23	1.47	1.48
1:M:538:GLU:C	4:Z:349:LEU:CD1	1.84	1.48
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	1.48
1:S:641:LYS:CD	1:S:647:GLN:CD	1.85	1.48
1:G:641:LYS:CG	1:G:647:GLN:NE2	1.77	1.48
1:J:206:LYS:HD3	1:J:217:THR:CG2	1.40	1.48
1:J:556:ASP:CG	4:Y:47:MET:CE	1.76	1.48
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.48
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.48
1:M:641:LYS:CG	1:M:647:GLN:NE2	1.77	1.48
1:S:641:LYS:CG	1:S:647:GLN:NE2	1.77	1.48
4:3:287:ILE:CB	4:5:202:THR:HB	1.44	1.48
1:A:206:LYS:HD3	1:A:217:THR:CG2	1.40	1.48
1:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.47
1:S:206:LYS:HD3	1:S:217:THR:CG2	1.40	1.47
1:D:641:LYS:CG	1:D:647:GLN:NE2	1.77	1.47
1:M:721:LYS:HG3	1:M:736:GLN:CG	1.15	1.47
1:J:792:ALA:CB	3:L:42:THR:CG2	1.83	1.47
4:4:287:ILE:CG2	4:6:202:THR:CB	1.79	1.47
4:X:324:THR:HG22	4:Z:247:VAL:CG2	1.42	1.47
1:M:819:ASN:CG	2:N:92:ASP:HB2	1.36	1.47
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.46
1:G:641:LYS:CD	1:G:647:GLN:CD	1.85	1.46
1:M:821:ARG:NH2	2:N:127:ARG:HG2	1.16	1.46
1:D:727:LEU:CB	1:D:782:MLY:HH13	1.40	1.46
1:S:538:GLU:C	4:2:349:LEU:CD1	1.84	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:798:LEU:HD11	3:U:126:LEU:CD2	1.45	1.46
4:3:287:ILE:CG2	4:5:202:THR:CB	1.79	1.46
1:G:757:GLN:CG	1:G:776:GLU:HG2	0.98	1.45
1:S:795:ARG:CG	3:U:118:MET:HE1	0.99	1.45
1:M:783:LEU:CA	1:M:786:ILE:HG13	1.43	1.45
1:D:769:ALA:HA	1:D:771:LEU:CA	1.33	1.45
2:H:117:LEU:HD12	2:H:147:ASN:CB	1.42	1.45
1:J:28:GLN:CA	1:J:723:ARG:NH2	1.69	1.44
1:J:641:LYS:CG	1:J:647:GLN:NE2	1.77	1.44
1:J:817:GLN:HG2	2:K:127:ARG:CB	1.47	1.44
1:S:795:ARG:NH2	3:U:116:GLU:HB3	1.24	1.44
4:4:287:ILE:CB	4:6:202:THR:HB	1.44	1.43
1:A:795:ARG:NH2	3:C:116:GLU:CD	1.71	1.43
1:G:792:ALA:CB	3:I:42:THR:HG22	1.44	1.43
1:J:817:GLN:CB	2:K:127:ARG:HD2	1.46	1.43
1:G:769:ALA:CB	1:G:770:GLY:HA2	1.49	1.43
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.67	1.42
1:M:783:LEU:HG	1:M:786:ILE:CD1	0.97	1.42
1:S:505:MLY:HH11	1:S:762:HIS:NE2	1.21	1.42
1:A:793:ARG:NH2	3:C:147:MET:HE3	1.31	1.42
1:D:721:LYS:HG3	1:D:736:GLN:CG	1.15	1.42
1:A:831:TRP:CD1	2:B:51:PHE:HZ	1.37	1.42
1:M:641:LYS:CG	1:M:647:GLN:CD	1.93	1.42
1:S:93:MET:HE2	1:S:764:MLY:CB	1.50	1.42
1:S:641:LYS:CG	1:S:647:GLN:CD	1.93	1.42
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	1.41
1:G:821:ARG:NH2	2:H:127:ARG:HG2	1.34	1.41
1:J:792:ALA:HB2	3:L:42:THR:CG2	0.96	1.41
1:M:736:GLN:N	1:M:743:ALA:HB1	1.35	1.41
1:G:792:ALA:HB2	3:I:42:THR:CG2	1.47	1.41
1:S:506:GLU:OE2	1:S:760:PHE:CD1	1.71	1.41
1:A:733:PRO:O	1:A:737:PHE:CD1	1.73	1.41
2:B:144:VAL:CG1	2:B:153:ILE:CD1	1.99	1.41
1:S:796:GLY:HA2	3:U:35:ARG:CD	1.50	1.41
4:1:287:ILE:HG12	4:3:202:THR:C	1.42	1.41
1:A:530:MET:CG	4:8:354:GLN:HB2	1.50	1.41
2:E:144:VAL:CG1	2:E:153:ILE:CD1	1.99	1.41
1:G:567:LYS:NZ	4:X:92:ASN:HD22	1.17	1.41
2:K:144:VAL:CG1	2:K:153:ILE:CD1	1.99	1.41
1:S:795:ARG:HH11	3:U:43:ASN:CG	1.27	1.41
1:J:202:SER:HA	1:J:207:LYS:CE	1.51	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:641:LYS:HG3	1:M:647:GLN:CD	1.46	1.41
1:M:733:PRO:O	1:M:737:PHE:CD1	1.73	1.41
1:D:202:SER:HA	1:D:207:LYS:CE	1.51	1.40
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.40
2:H:144:VAL:CG1	2:H:153:ILE:CD1	1.99	1.40
1:J:733:PRO:O	1:J:737:PHE:CD1	1.73	1.40
4:X:286:ASP:OD1	4:Z:202:THR:CB	1.64	1.40
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.40
1:D:791:GLN:NE2	3:F:115:GLY:HA3	1.15	1.40
1:D:798:LEU:CD1	3:F:126:LEU:HD11	0.95	1.40
1:S:218:LEU:CB	1:S:221:GLN:HG3	1.52	1.40
1:S:641:LYS:HG3	1:S:647:GLN:CD	1.45	1.40
1:S:793:ARG:NH1	3:U:40:ASN:HD22	0.96	1.40
1:D:530:MET:CG	4:9:354:GLN:HB2	1.50	1.40
1:D:733:PRO:O	1:D:737:PHE:CD1	1.74	1.40
1:G:797:PHE:CE2	3:I:126:LEU:CD2	2.02	1.40
1:M:218:LEU:CB	1:M:221:GLN:HG3	1.52	1.40
1:S:819:ASN:CG	2:T:92:ASP:HB2	1.46	1.40
2:T:144:VAL:CG1	2:T:153:ILE:CD1	1.99	1.40
1:A:202:SER:HA	1:A:207:LYS:CE	1.51	1.40
1:A:218:LEU:CB	1:A:221:GLN:HG3	1.52	1.40
1:D:769:ALA:CA	1:D:771:LEU:HA	1.37	1.40
1:G:218:LEU:CB	1:G:221:GLN:HG3	1.51	1.40
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.45	1.40
1:A:817:GLN:NE2	2:B:127:ARG:CG	1.83	1.40
1:M:537:GLU:O	4:Z:349:LEU:CD1	1.70	1.40
1:S:795:ARG:NH1	3:U:43:ASN:HB2	1.30	1.40
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.39
1:G:733:PRO:O	1:G:737:PHE:CD1	1.74	1.39
1:G:754:ASP:OD2	1:G:779:ARG:CB	1.70	1.39
1:S:534:SER:O	4:2:351:THR:CG2	1.64	1.39
4:X:291:LYS:CE	4:Z:243:PRO:HB2	1.52	1.39
1:D:537:GLU:O	4:9:349:LEU:CD1	1.70	1.39
1:G:736:GLN:N	1:G:743:ALA:HB1	1.34	1.39
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.39
1:A:721:LYS:HG3	1:A:736:GLN:CG	1.15	1.39
1:D:85:TYR:OH	1:D:772:LEU:CD2	1.69	1.39
1:G:537:GLU:O	4:V:349:LEU:CD1	1.71	1.39
2:N:144:VAL:CG1	2:N:153:ILE:CD1	1.99	1.39
1:S:795:ARG:NH1	3:U:43:ASN:CB	1.84	1.39
1:J:530:MET:CG	4:W:354:GLN:HB2	1.51	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:733:PRO:O	1:S:737:PHE:CD1	1.73	1.39
1:S:736:GLN:N	1:S:743:ALA:HB1	1.35	1.39
1:S:798:LEU:CG	3:U:126:LEU:HD11	1.51	1.39
1:S:831:TRP:HH2	2:T:47:LEU:CD2	1.34	1.39
1:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	1.39
1:G:728:ASN:ND2	3:I:114:LEU:HD23	1.36	1.39
1:J:537:GLU:O	4:W:349:LEU:CD1	1.70	1.39
1:M:736:GLN:CA	1:M:743:ALA:CB	2.00	1.39
1:G:819:ASN:CA	2:H:90:GLY:O	1.69	1.38
1:J:218:LEU:CB	1:J:221:GLN:HG3	1.52	1.38
1:J:567:LYS:NZ	4:Y:92:ASN:HD22	1.16	1.38
1:M:202:SER:HA	1:M:207:LYS:CE	1.51	1.38
1:M:817:GLN:CG	2:N:127:ARG:HD2	1.51	1.38
1:S:537:GLU:O	4:2:349:LEU:CD1	1.70	1.38
1:J:505:MLY:HD2	1:J:762:HIS:CE1	1.57	1.38
1:J:736:GLN:CA	1:J:743:ALA:CB	2.00	1.38
1:S:202:SER:HA	1:S:207:LYS:CE	1.51	1.38
1:S:721:LYS:HG3	1:S:736:GLN:CG	1.15	1.38
1:A:537:GLU:O	4:8:349:LEU:CD1	1.70	1.38
1:J:838:ILE:HD11	2:K:54:MET:CE	1.48	1.38
1:S:530:MET:CG	4:2:354:GLN:HB2	1.51	1.38
1:D:736:GLN:CA	1:D:743:ALA:CB	2.00	1.38
1:M:534:SER:O	4:Z:351:THR:CG2	1.64	1.38
1:S:736:GLN:CA	1:S:743:ALA:CB	2.00	1.38
1:A:736:GLN:N	1:A:743:ALA:HB1	1.35	1.38
1:D:218:LEU:CB	1:D:221:GLN:HG3	1.52	1.38
1:D:721:LYS:CG	1:D:736:GLN:CG	1.96	1.38
1:M:736:GLN:CA	1:M:743:ALA:HB1	1.53	1.38
2:T:144:VAL:CG1	2:T:153:ILE:HG12	1.54	1.38
4:1:287:ILE:CG1	4:3:203:THR:N	1.74	1.38
1:M:530:MET:CG	4:Z:354:GLN:HB2	1.51	1.37
1:S:92:ALA:O	1:S:714:ARG:CG	1.68	1.37
1:D:641:LYS:HG3	1:D:647:GLN:CD	1.46	1.37
1:D:726:VAL:HG12	1:D:785:GLU:CG	1.51	1.37
1:G:202:SER:HA	1:G:207:LYS:CE	1.51	1.37
1:G:530:MET:CG	4:V:354:GLN:HB2	1.51	1.37
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	1.37
1:J:721:LYS:HG3	1:J:736:GLN:CG	1.15	1.37
1:S:791:GLN:CD	3:U:116:GLU:H	1.32	1.37
1:D:797:PHE:HE2	3:F:126:LEU:CD2	1.36	1.37
1:D:813:ILE:CG2	2:E:128:PHE:CZ	2.08	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:144:VAL:CG1	2:E:153:ILE:HG12	1.54	1.37
1:G:795:ARG:NE	3:I:116:GLU:HB3	1.38	1.37
1:S:721:LYS:CG	1:S:736:GLN:CG	1.97	1.37
1:S:798:LEU:HD11	3:U:126:LEU:CD1	1.55	1.37
1:A:736:GLN:CA	1:A:743:ALA:HB1	1.53	1.37
2:B:117:LEU:HB2	2:B:147:ASN:ND2	1.39	1.37
1:D:713:SER:OG	1:D:771:LEU:CD2	1.72	1.37
1:J:818:TYR:CZ	2:K:127:ARG:NH2	1.90	1.37
2:K:144:VAL:CG1	2:K:153:ILE:HG12	1.54	1.37
1:S:728:ASN:OD1	3:U:90:GLY:CA	1.69	1.37
1:A:736:GLN:CA	1:A:743:ALA:CB	2.00	1.37
1:G:553:MLY:CH1	4:X:45:VAL:HG11	1.54	1.37
1:J:736:GLN:N	1:J:743:ALA:HB1	1.35	1.37
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	1.36
1:G:791:GLN:NE2	3:I:115:GLY:HA3	1.06	1.36
1:M:649:VAL:O	1:M:649:VAL:CG1	1.74	1.36
1:M:721:LYS:CG	1:M:736:GLN:CD	1.98	1.36
4:4:288:ASP:CG	4:6:203:THR:CG2	1.98	1.36
1:D:736:GLN:N	1:D:743:ALA:HB1	1.35	1.36
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	1.36
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	1.36
1:A:721:LYS:CG	1:A:736:GLN:CD	1.98	1.36
2:E:117:LEU:HB2	2:E:147:ASN:ND2	1.40	1.36
1:J:84:MLY:CD	1:J:724:TYR:CE2	2.08	1.36
1:J:553:MLY:CH1	4:Y:45:VAL:HG11	1.55	1.36
1:A:798:LEU:CD1	3:C:126:LEU:HD21	1.54	1.35
2:B:144:VAL:CG1	2:B:153:ILE:HG12	1.54	1.35
1:D:724:TYR:CA	1:D:782:MLY:HD2	1.51	1.35
1:G:534:SER:O	4:V:351:THR:CG2	1.64	1.35
1:S:707:CYS:C	1:S:714:ARG:HH22	1.33	1.35
1:S:736:GLN:CA	1:S:743:ALA:HB1	1.53	1.35
4:2:287:ILE:CG2	4:4:203:THR:HG22	1.56	1.35
1:A:817:GLN:NE2	2:B:127:ARG:HG2	1.08	1.35
1:G:736:GLN:CA	1:G:743:ALA:CB	2.00	1.35
4:3:288:ASP:CG	4:5:203:THR:CG2	1.98	1.35
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.35
1:J:736:GLN:CA	1:J:743:ALA:HB1	1.53	1.35
1:J:829:TRP:CZ3	2:K:87:LYS:NZ	1.90	1.35
4:4:288:ASP:OD2	4:6:203:THR:HG21	1.21	1.35
2:B:117:LEU:CD1	2:B:147:ASN:OD1	1.74	1.35
2:H:144:VAL:CG1	2:H:153:ILE:HG12	1.54	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:LEU:CD1	2:K:147:ASN:OD1	1.74	1.35
1:M:795:ARG:HG2	3:O:118:MET:CE	1.56	1.35
1:M:838:ILE:HD11	2:N:54:MET:CE	1.56	1.35
1:S:538:GLU:CA	4:2:349:LEU:HD12	0.88	1.35
1:A:793:ARG:HH21	3:C:147:MET:CE	1.39	1.35
1:D:814:PHE:HD1	2:E:127:ARG:NH1	1.24	1.35
1:G:838:ILE:HD11	2:H:54:MET:CE	1.56	1.35
2:H:144:VAL:CG1	2:H:153:ILE:CG1	2.03	1.35
2:N:117:LEU:CD1	2:N:147:ASN:OD1	1.74	1.35
1:S:642:LYS:HG3	4:2:23:GLY:N	1.40	1.35
2:T:117:LEU:CD1	2:T:147:ASN:OD1	1.74	1.35
2:T:117:LEU:HB2	2:T:147:ASN:ND2	1.40	1.35
1:D:797:PHE:CE2	3:F:126:LEU:CD2	2.09	1.34
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.34
1:G:556:ASP:CG	4:X:47:MET:HE3	1.10	1.34
1:J:817:GLN:HB3	2:K:127:ARG:CD	1.54	1.34
1:S:721:LYS:CG	1:S:736:GLN:CD	1.98	1.34
1:A:538:GLU:CA	4:8:349:LEU:HD12	0.87	1.34
1:D:642:LYS:HG3	4:9:23:GLY:N	1.40	1.34
1:S:530:MET:HA	4:2:354:GLN:CG	1.56	1.34
1:S:649:VAL:O	1:S:649:VAL:CG1	1.74	1.34
1:A:530:MET:HA	4:8:354:GLN:CG	1.56	1.34
2:B:144:VAL:CG1	2:B:153:ILE:CG1	2.03	1.34
1:D:534:SER:O	4:9:351:THR:CG2	1.64	1.34
1:M:538:GLU:CA	4:Z:349:LEU:HD12	0.88	1.34
1:M:642:LYS:HG3	4:Z:23:GLY:N	1.40	1.34
2:N:144:VAL:CG1	2:N:153:ILE:HG12	1.54	1.34
1:S:836:PHE:CE1	2:T:159:HIS:HA	1.60	1.34
4:1:287:ILE:HG12	4:3:203:THR:N	1.22	1.34
1:A:537:GLU:C	4:8:349:LEU:HD13	1.52	1.34
1:A:649:VAL:O	1:A:649:VAL:CG1	1.74	1.34
1:D:530:MET:HA	4:9:354:GLN:CG	1.56	1.34
1:J:538:GLU:CA	4:W:349:LEU:HD12	0.88	1.34
1:J:642:LYS:HG3	4:W:23:GLY:N	1.40	1.34
4:3:288:ASP:OD2	4:5:203:THR:HG21	1.21	1.34
1:D:795:ARG:HD3	3:F:43:ASN:OD1	1.19	1.34
2:E:114:LYS:CA	2:E:146:GLY:O	1.76	1.34
1:G:752:ASP:O	1:G:780:ASP:HA	1.28	1.34
1:G:819:ASN:CG	2:H:92:ASP:HB2	1.38	1.34
1:J:556:ASP:CG	4:Y:47:MET:HE3	1.11	1.34
1:J:649:VAL:O	1:J:649:VAL:CG1	1.74	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:819:ASN:HA	2:K:90:GLY:O	1.21	1.34
1:S:798:LEU:HD21	3:U:126:LEU:CD1	1.55	1.34
2:T:114:LYS:CA	2:T:146:GLY:O	1.76	1.34
4:4:324:THR:OG1	4:6:244:ASP:CA	1.76	1.34
1:A:534:SER:O	4:8:351:THR:CG2	1.64	1.33
1:A:795:ARG:CD	3:C:35:ARG:HH12	1.41	1.33
1:J:530:MET:HA	4:W:354:GLN:CG	1.56	1.33
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.54	1.33
1:S:798:LEU:CD1	3:U:126:LEU:HD11	1.56	1.33
1:A:721:LYS:HG3	1:A: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:CD	3:F:43:ASN:OD1	1.75	1.33
1:G:721:LYS:CG	1:G:736:GLN:CG	1.97	1.33
2:H:117:LEU:CD1	2:H:147:ASN:OD1	1.74	1.33
1:J:537:GLU:C	4:W:349:LEU:HD13	1.52	1.33
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.33
1:J:836:PHE:CE1	2:K:159:HIS:HA	1.62	1.33
2:K:117:LEU:HB2	2:K:147:ASN:ND2	1.39	1.33
1:M:530:MET:HA	4:Z:354:GLN:CG	1.56	1.33
1:M:795:ARG:CG	3:O:118:MET:CE	2.07	1.33
1:M:795:ARG:HB3	3:O:35:ARG:NH2	1.43	1.33
1:S:783:LEU:HA	1:S:786:ILE:CG1	1.58	1.33
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.33
1:M:537:GLU:C	4:Z:349:LEU:HD13	1.52	1.33
1:M:735:GLY:C	1:M:743:ALA:CB	2.01	1.33
1:A:834:LEU:HD21	2:B:54:MET:CE	1.57	1.33
1:G:530:MET:HA	4:V:354:GLN:CG	1.57	1.33
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.33
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	1.33
1:M:635:GLY:CA	4:Z:334:GLU:HG2	1.59	1.33
1:S:629:GLU:HA	1:S:643:GLY:O	1.17	1.33
1:S:795:ARG:CD	3:U:43:ASN:OD1	1.77	1.33
2:T:144:VAL:CG1	2:T:153:ILE:CG1	2.03	1.33
1:D:792:ALA:HB2	3:F:42:THR:CG2	1.59	1.33
1:J:635:GLY:CA	4:W:334:GLU:HG2	1.59	1.33
1:J:721:LYS:CG	1:J:736:GLN:CG	1.97	1.33
1:M:819:ASN:OD1	2:N:92:ASP:N	1.60	1.33
2:N:144:VAL:CG1	2:N:153:ILE:CG1	2.03	1.33
1:S:635:GLY:CA	4:2:334:GLU:HG2	1.59	1.33
4:1:287:ILE:CB	4:3:203:THR:H	1.39	1.33
4:3:287:ILE:HG23	4:5:202:THR:OG1	1.29	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:324:THR:OG1	4:5:244:ASP:CA	1.76	1.33
1:A:799:MET:SD	3:C:32:ASP:CB	2.17	1.32
1:D:635:GLY:CA	4:9:334:GLU:HG2	1.59	1.32
1:G:721:LYS:HG3	1:G:736:GLN:CD	1.54	1.32
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.39	1.32
1:A:635:GLY:CA	4:8:334:GLU:HG2	1.59	1.32
1:D:649:VAL:O	1:D:649:VAL:CG1	1.74	1.32
1:D:747:LEU:HD11	1:D:782:MLY:CH2	1.58	1.32
1:M:829:TRP:CZ3	2:N:87:LYS:NZ	1.95	1.32
2:N:117:LEU:HB2	2:N:147:ASN:ND2	1.39	1.32
1:S:93:MET:CE	1:S:764:MLY:HB2	1.58	1.32
1:S:735:GLY:C	1:S:743:ALA:CB	2.01	1.32
1:S:793:ARG:NH1	3:U:40:ASN:ND2	1.71	1.32
1:A:725:ARG:NE	1:A:733:PRO:HB3	0.99	1.32
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.32
1:D:799:MET:CE	3:F:32:ASP:HB3	1.59	1.32
1:G:725:ARG:NE	1:G:733:PRO:HB3	1.00	1.32
2:H:114:LYS:CA	2:H:146:GLY:O	1.76	1.32
1:J:534:SER:O	4:W:351:THR:CG2	1.64	1.32
1:J:799:MET:SD	3:L:32:ASP:CG	2.13	1.32
2:K:114:LYS:CA	2:K:146:GLY:O	1.76	1.32
2:N:114:LYS:CA	2:N:146:GLY:O	1.76	1.32
1:D:813:ILE:CG2	2:E:128:PHE:CE1	2.13	1.32
1:G:635:GLY:CA	4:V:334:GLU:HG2	1.59	1.32
1:G:642:LYS:HG3	4:V:23:GLY:N	1.39	1.32
2:K:144:VAL:CG1	2:K:153:ILE:CG1	2.03	1.32
1:M:629:GLU:HA	1:M:643:GLY:O	1.17	1.32
1:S:537:GLU:C	4:2:349:LEU:HD13	1.52	1.32
4:2:166:TYR:CE2	4:4:64:ILE:HG21	1.63	1.32
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.32
1:G:753:VAL:O	1:G:779:ARG:NH1	1.63	1.32
1:M:725:ARG:NE	1:M:733:PRO:HB3	1.00	1.32
4:2:112:PRO:CG	4:3:197:GLY:N	1.90	1.32
1:A:798:LEU:HD11	3:C:126:LEU:CD2	1.57	1.31
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.31
1:S:783:LEU:HG	1:S:786:ILE:CD1	1.59	1.31
1:D:725:ARG:NE	1:D:733:PRO:HB3	1.00	1.31
2:E:144:VAL:CG1	2:E:153:ILE:CG1	2.03	1.31
2:K:121:LEU:O	2:K:128:PHE:CB	1.78	1.31
1:D:795:ARG:HB3	3:F:35:ARG:NH1	1.45	1.31
2:E:117:LEU:CD1	2:E:147:ASN:OD1	1.74	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LYS:HG3	1:M:736:GLN:CD	1.54	1.31
1:S:721:LYS:HG2	1:S:736:GLN:OE1	1.29	1.31
1:S:831:TRP:CH2	2:T:47:LEU:CD2	2.14	1.31
2:B:114:LYS:CA	2:B:146:GLY:O	1.76	1.31
1:D:599:ASN:HA	1:D:649:VAL:CB	1.60	1.31
2:E:121:LEU:O	2:E:128:PHE:CB	1.79	1.31
1:S:792:ALA:HB2	3:U:42:THR:CG2	1.60	1.31
1:A:642:LYS:HG3	4:8:23:GLY:N	1.40	1.30
1:A:735:GLY:O	1:A:743:ALA:HB2	1.29	1.30
1:D:721:LYS:HG3	1:D:736:GLN:CD	1.54	1.30
1:D:721:LYS:HG2	1:D:736:GLN:OE1	1.29	1.30
1:M:215:GLN:N	1:M:340:ILE:HG12	1.19	1.30
1:M:538:GLU:C	4:Z:349:LEU:HD12	1.48	1.30
1:M:721:LYS:HG2	1:M:736:GLN:OE1	1.29	1.30
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	1.30
1:S:721:LYS:HG3	1:S:736:GLN:CD	1.54	1.30
1:S:770:GLY:C	1:S:771:LEU:C	1.99	1.30
1:S:838:ILE:HD11	2:T:54:MET:CE	1.60	1.30
1:D:736:GLN:CA	1:D:743:ALA:HB1	1.53	1.30
1:G:754:ASP:CA	1:G:779:ARG:HD2	1.60	1.30
1:S:599:ASN:HA	1:S:649:VAL:CB	1.60	1.30
1:S:725:ARG:NE	1:S:733:PRO:HB3	1.00	1.30
2:T:117:LEU:CD1	2:T:147:ASN:CG	2.05	1.30
2:H:121:LEU:O	2:H:128:PHE:CB	1.79	1.30
1:J:797:PHE:CE2	3:L:126:LEU:HD22	1.67	1.30
1:D:732:ILE:HG21	1:D:782:MLY:CH2	1.61	1.30
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.29
1:A:599:ASN:HA	1:A:649:VAL:CB	1.60	1.29
2:B:121:LEU:O	2:B:128:PHE:CB	1.79	1.29
1:G:149:GLN:CD	1:G:763:THR:CG2	2.00	1.29
1:G:728:ASN:CG	3:I:114:LEU:CD2	2.03	1.29
1:J:84:MLY:HA	1:J:723:ARG:CZ	1.30	1.29
1:M:599:ASN:HA	1:M:649:VAL:CB	1.60	1.29
1:S:795:ARG:NH2	3:U:116:GLU:CB	1.95	1.29
1:A:797:PHE:CE1	3:C:146:ILE:HA	1.65	1.29
4:X:291:LYS:CE	4:Z:243:PRO:CB	2.06	1.29
1:A:215:GLN:N	1:A:340:ILE:HG12	1.20	1.29
1:G:599:ASN:HA	1:G:649:VAL:CB	1.60	1.29
1:J:725:ARG:NE	1:J:733:PRO:HB3	1.00	1.29
1:M:818:TYR:CZ	2:N:127:ARG:NH2	2.00	1.29
1:S:819:ASN:ND2	2:T:92:ASP:HB2	1.47	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:ARG:HB3	3:C:149:VAL:CG2	1.63	1.29
1:D:726:VAL:CG1	1:D:785:GLU:HB3	1.61	1.29
1:G:819:ASN:ND2	2:H:92:ASP:HB2	1.44	1.29
1:J:829:TRP:CZ2	2:K:87:LYS:HE2	1.68	1.29
2:N:121:LEU:O	2:N:128:PHE:CB	1.79	1.29
1:S:798:LEU:CD2	3:U:126:LEU:CD1	2.10	1.29
1:S:818:TYR:CE1	2:T:127:ARG:NH2	2.00	1.29
1:A:538:GLU:O	4:8:349:LEU:CD1	1.78	1.29
1:D:799:MET:SD	3:F:32:ASP:HB3	1.71	1.29
1:G:735:GLY:O	1:G:743:ALA:HB2	1.29	1.29
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.29
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.44	1.28
1:J:721:LYS:HG2	1:J:736:GLN:OE1	1.29	1.28
1:M:28:GLN:O	1:M:723:ARG:NH2	1.62	1.28
1:S:735:GLY:O	1:S:743:ALA:HB2	1.29	1.28
2:T:121:LEU:O	2:T:128:PHE:CB	1.79	1.28
4:X:286:ASP:CG	4:Z:202:THR:HB	1.32	1.28
2:B:117:LEU:CD1	2:B:147:ASN:CG	2.05	1.28
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.27	1.28
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	1.28
1:S:834:LEU:HD13	2:T:51:PHE:CE1	1.67	1.28
1:J:629:GLU:HA	1:J:643:GLY:O	1.17	1.28
1:J:817:GLN:CG	2:K:127:ARG:CD	2.11	1.28
1:M:538:GLU:O	4:Z:349:LEU:CD1	1.78	1.28
2:N:117:LEU:CD1	2:N:147:ASN:CG	2.05	1.28
1:J:534:SER:O	4:W:351:THR:CA	1.82	1.28
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.05	1.28
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	1.28
1:S:792:ALA:HB2	3:U:42:THR:CB	1.64	1.28
1:D:799:MET:SD	3:F:32:ASP:CB	2.22	1.28
1:J:552:ASN:O	4:Y:47:MET:SD	1.91	1.28
4:2:112:PRO:HB3	4:3:196:ARG:CA	1.62	1.28
1:D:767:PHE:O	1:D:771:LEU:HD11	1.23	1.27
1:G:538:GLU:O	4:V:349:LEU:CD1	1.78	1.27
1:S:783:LEU:CB	1:S:786:ILE:HD11	1.63	1.27
1:D:534:SER:O	4:9:351:THR:CA	1.81	1.27
1:D:629:GLU:HA	1:D:643:GLY:O	1.17	1.27
1:J:721:LYS:CG	1:J:736:GLN:OE1	1.83	1.27
1:S:792:ALA:CB	3:U:42:THR:CG2	2.11	1.27
1:A:499:GLU:OE1	1:A:766:PHE:HZ	1.08	1.27
1:A:795:ARG:CZ	3:C:116:GLU:OE2	1.81	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.27
1:A:707:CYS:HA	1:A:714:ARG:NH1	1.45	1.27
1:A:831:TRP:NE1	2:B:51:PHE:CZ	2.03	1.27
2:N:121:LEU:C	2:N:128:PHE:CB	2.07	1.27
4:2:287:ILE:CB	4:4:203:THR:HG22	1.62	1.27
1:A:831:TRP:CD1	2:B:51:PHE:CZ	2.21	1.27
2:B:121:LEU:C	2:B:128:PHE:CB	2.07	1.27
1:D:735:GLY:O	1:D:743:ALA:HB2	1.29	1.27
1:D:795:ARG:HG2	3:F:118:MET:CE	1.64	1.27
1:G:728:ASN:OD1	3:I:114:LEU:CD2	1.81	1.27
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	1.27
4:2:287:ILE:HB	4:4:203:THR:CG2	1.62	1.27
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	1.26
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.26
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.26
1:D:792:ALA:CB	3:F:42:THR:HG22	1.64	1.26
1:G:530:MET:HE2	4:V:354:GLN:CG	1.64	1.26
1:G:730:SER:OG	3:I:113:THR:HG21	1.21	1.26
1:M:721:LYS:CG	1:M:736:GLN:OE1	1.83	1.26
1:M:831:TRP:HH2	2:N:47:LEU:CD2	1.49	1.26
1:S:534:SER:O	4:2:351:THR:CA	1.81	1.26
1:S:753:VAL:HG13	1:S:779:ARG:CZ	1.63	1.26
2:B:54:MET:HA	2:H:21:GLU:OE1	1.30	1.26
1:D:721:LYS:CG	1:D:736:GLN:OE1	1.82	1.26
1:A:629:GLU:HA	1:A:643:GLY:O	1.17	1.26
1:G:629:GLU:HA	1:G:643:GLY:O	1.17	1.26
1:G:769:ALA:HB3	1:G:770:GLY:CA	1.63	1.26
1:S:721:LYS:CG	1:S:736:GLN:OE1	1.83	1.26
1:S:795:ARG:HH21	3:U:116:GLU:CB	1.49	1.26
1:A:797:PHE:CZ	3:C:146:ILE:HD13	1.68	1.26
1:G:538:GLU:O	4:V:349:LEU:HD11	1.34	1.26
1:S:786:ILE:O	1:S:789:ALA:N	1.67	1.26
1:A:530:MET:HE2	4:8:354:GLN:CG	1.65	1.25
1:D:791:GLN:HE22	3:F:115:GLY:C	1.43	1.25
1:S:538:GLU:C	4:2:349:LEU:HD12	1.48	1.25
4:1:247:VAL:N	4:Y:324:THR:HG21	1.49	1.25
1:A:534:SER:O	4:8:351:THR:CA	1.81	1.25
2:E:144:VAL:CG1	2:E:153:ILE:HD11	1.65	1.25
1:G:534:SER:O	4:V:351:THR:CA	1.83	1.25
1:M:721:LYS:CG	1:M:736:GLN:CG	1.97	1.25
1:S:793:ARG:CZ	3:U:40:ASN:HD22	1.47	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:795:ARG:CZ	3:U:116:GLU:HB3	1.66	1.25
1:S:819:ASN:OD1	2:T:92:ASP:N	1.69	1.25
2:T:121:LEU:C	2:T:128:PHE:CB	2.07	1.25
4:4:287:ILE:HG23	4:6:202:THR:OG1	1.28	1.25
4:4:288:ASP:CG	4:6:203:THR:HG21	1.60	1.25
4:W:324:THR:HG21	4:Y:247:VAL:N	1.49	1.25
4:1:288:ASP:CG	4:3:203:THR:HG21	1.62	1.25
1:G:721:LYS:HG2	1:G:736:GLN:OE1	1.29	1.25
1:J:84:MLY:CH1	1:J:720:PHE:CD1	2.20	1.25
1:M:534:SER:O	4:Z:351:THR:CA	1.82	1.25
1:S:630:ALA:O	4:2:25:ASP:OD2	1.52	1.25
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.24
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.24
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.24
1:J:530:MET:HE2	4:W:354:GLN:CG	1.65	1.24
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.62	1.24
1:M:819:ASN:CA	2:N:90:GLY:O	1.85	1.24
1:S:530:MET:HE2	4:2:354:GLN:CG	1.65	1.24
1:A:502:GLU:HG3	1:A:761:GLY:CA	1.61	1.24
1:D:791:GLN:CD	3:F:116:GLU:H	1.45	1.24
1:D:818:TYR:CB	2:E:90:GLY:CA	1.98	1.24
1:G:646:PHE:CE2	1:G:652:LEU:HD11	1.73	1.24
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.67	1.24
1:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.24
1:J:756:THR:HG22	1:J:776:GLU:CD	1.59	1.24
1:S:770:GLY:O	1:S:774:LEU:HB2	1.34	1.24
1:A:822:SER:OG	2:B:88:LEU:CD2	1.85	1.24
1:J:817:GLN:CB	2:K:127:ARG:CD	2.13	1.24
1:S:731:ALA:HB1	3:U:93:VAL:C	1.61	1.24
1:A:646:PHE:CE2	1:A:652:LEU:HD11	1.73	1.24
1:A:733:PRO:O	1:A:737:PHE:HD1	0.93	1.24
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.36	1.24
1:S:817:GLN:HG2	2:T:127:ARG:CD	1.68	1.24
4:9:322:PRO:CB	4:W:244:ASP:OD2	1.86	1.24
1:D:530:MET:HE2	4:9:354:GLN:CG	1.65	1.24
1:D:646:PHE:CE2	1:D:652:LEU:HD11	1.73	1.24
1:J:84:MLY:HH22	1:J:719:ASP:O	1.12	1.24
1:M:530:MET:HE2	4:Z:354:GLN:CG	1.65	1.24
1:S:538:GLU:O	4:2:349:LEU:CD1	1.78	1.24
1:S:538:GLU:O	4:2:349:LEU:HD11	1.35	1.24
4:1:287:ILE:HG12	4:3:202:THR:CA	1.66	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:291:LYS:HD2	4:Z:244:ASP:N	1.48	1.24
1:A:502:GLU:CA	1:A:761:GLY:HA3	1.69	1.23
1:A:834:LEU:CD2	2:B:54:MET:HE3	1.69	1.23
1:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.23
1:D:791:GLN:NE2	3:F:116:GLU:N	1.86	1.23
1:D:791:GLN:NE2	3:F:116:GLU:H	1.37	1.23
1:D:797:PHE:CD1	3:F:146:ILE:CG2	2.21	1.23
1:D:814:PHE:CD1	2:E:127:ARG:NH1	2.06	1.23
1:J:733:PRO:O	1:J:737:PHE:HD1	0.93	1.23
1:M:35:MLY:CH2	1:M:777:GLU:HG2	1.68	1.23
1:M:646:PHE:CE2	1:M:652:LEU:HD11	1.73	1.23
1:M:797:PHE:CD1	3:O:149:VAL:CG1	2.18	1.23
1:M:799:MET:SD	3:O:32:ASP:CB	2.24	1.23
1:A:499:GLU:OE1	1:A:766:PHE:CZ	1.92	1.23
1:D:641:LYS:CG	1:D:647:GLN:CG	2.15	1.23
1:G:557:GLU:CB	4:X:46:GLY:O	1.86	1.23
1:S:646:PHE:CE2	1:S:652:LEU:HD11	1.73	1.23
1:S:798:LEU:CD1	3:U:126:LEU:HD21	1.67	1.23
1:S:834:LEU:CD1	2:T:51:PHE:HE1	1.52	1.23
4:2:290:ARG:HH21	4:4:202:THR:CG2	1.50	1.23
1:D:538:GLU:O	4:9:349:LEU:CD1	1.78	1.23
1:D:795:ARG:CG	3:F:118:MET:HE1	1.68	1.23
1:G:757:GLN:CG	1:G:776:GLU:CG	1.77	1.23
1:M:798:LEU:CD1	3:O:126:LEU:CD2	1.97	1.23
1:D:733:PRO:O	1:D:737:PHE:HD1	0.93	1.23
1:G:215:GLN:N	1:G:340:ILE:CG1	2.02	1.23
1:G:629:GLU:CA	1:G:643:GLY:O	1.87	1.23
1:M:215:GLN:N	1:M:340:ILE:CG1	2.02	1.23
1:M:506:GLU:OE2	1:M:761:GLY:HA2	1.37	1.23
1:S:750:GLY:HA2	3:U:89:GLU:CB	1.69	1.23
1:S:798:LEU:HD11	3:U:126:LEU:CG	1.68	1.23
4:V:325:MET:SD	4:X:244:ASP:HB2	1.77	1.23
1:A:630:ALA:O	4:8:25:ASP:OD2	1.53	1.23
1:A:768:MLY:CB	1:A:771:LEU:HB2	1.69	1.23
1:D:215:GLN:N	1:D:340:ILE:HG12	1.20	1.23
1:D:215:GLN:N	1:D:340:ILE:CG1	2.02	1.23
1:G:733:PRO:O	1:G:737:PHE:HD1	0.93	1.23
1:J:215:GLN:N	1:J:340:ILE:HG12	1.20	1.23
1:S:215:GLN:N	1:S:340:ILE:CG1	2.02	1.23
1:S:791:GLN:OE1	3:U:116:GLU:N	1.70	1.23
4:8:322:PRO:CB	4:V:244:ASP:OD2	1.86	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:629:GLU:CA	1:M:643:GLY:O	1.87	1.22
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.22
1:D:534:SER:O	4:9:351:THR:CB	1.88	1.22
1:J:557:GLU:CB	4:Y:46:GLY:O	1.87	1.22
1:J:646:PHE:CE2	1:J:652:LEU:HD11	1.73	1.22
1:M:735:GLY:O	1:M:743:ALA:HB2	1.29	1.22
1:M:821:ARG:NH2	2:N:127:ARG:CG	2.01	1.22
4:7:322:PRO:CB	4:9:244:ASP:OD2	1.86	1.22
1:A:505:MLY:CA	1:A:762:HIS:CD2	2.21	1.22
1:J:567:LYS:NZ	4:Y:92:ASN:ND2	1.85	1.22
1:J:641:LYS:CG	1:J:647:GLN:CG	2.16	1.22
1:S:534:SER:O	4:2:351:THR:CB	1.87	1.22
1:S:629:GLU:CA	1:S:643:GLY:O	1.87	1.22
1:A:629:GLU:CA	1:A:643:GLY:O	1.87	1.22
1:J:215:GLN:N	1:J:340:ILE:CG1	2.02	1.22
1:J:797:PHE:CD1	3:L:146:ILE:CG2	2.22	1.22
1:M:534:SER:O	4:Z:351:THR:CB	1.87	1.22
1:S:93:MET:HE3	1:S:764:MLY:CD	1.68	1.22
1:S:641:LYS:CG	1:S:647:GLN:CG	2.16	1.22
4:1:244:ASP:HB2	4:Y:325:MET:SD	1.77	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
1:S:783:LEU:CA	1:S:786:ILE:HG13	1.68	1.22
1:S:817:GLN:CG	2:T:127:ARG:CD	2.16	1.22
4:2:244:ASP:OD2	4:Z:322:PRO:CB	1.86	1.22
1:J:821:ARG:NH2	2:K:127:ARG:HG2	1.54	1.21
1:M:733:PRO:O	1:M:737:PHE:HD1	0.93	1.21
1:S:819:ASN:CA	2:T:90:GLY:O	1.88	1.21
4:W:325:MET:SD	4:Y:244:ASP:HB2	1.77	1.21
1:A:502:GLU:HG3	1:A:761:GLY:N	1.52	1.21
1:A:641:LYS:CG	1:A:647:GLN:HG3	1.71	1.21
1:D:629:GLU:CA	1:D:643:GLY:O	1.87	1.21
1:G:534:SER:O	4:V:351:THR:CB	1.89	1.21
1:G:783:LEU:O	1:G:787:ILE:N	1.71	1.21
1:J:84:MLY:CH1	1:J:720:PHE:HD1	1.52	1.21
1:J:838:ILE:CD1	2:K:54:MET:HE3	1.70	1.21
1:A:553:MLY:CE	4:V:45:VAL:HA	1.52	1.21
1:A:795:ARG:HD2	3:C:35:ARG:NH1	1.54	1.21
2:B:144:VAL:CG1	2:B:153:ILE:HD11	1.64	1.21
1:D:538:GLU:C	4:9:349:LEU:HD11	1.54	1.21
1:M:641:LYS:CG	1:M:647:GLN:HG3	1.71	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:806:MET:N	1:M:807:VAL:N	1.88	1.21
1:S:797:PHE:CE1	3:U:146:ILE:O	1.94	1.21
1:J:641:LYS:CD	1:J:647:GLN:NE2	1.99	1.21
1:M:641:LYS:CG	1:M:647:GLN:CG	2.16	1.21
1:A:721:LYS:HG2	1:A:736:GLN:OE1	1.29	1.21
1:J:534:SER:O	4:W:351:THR:CB	1.87	1.21
1:J:629:GLU:CA	1:J:643:GLY:O	1.87	1.21
1:M:831:TRP:CH2	2:N:47:LEU:CD2	2.23	1.21
1:S:733:PRO:O	1:S:737:PHE:HD1	0.93	1.21
4:X:286:ASP:OD1	4:Z:202:THR:HB	1.05	1.21
1:A:501:GLU:HG2	1:A:762:HIS:ND1	1.54	1.20
1:G:567:LYS:NZ	4:X:92:ASN:ND2	1.86	1.20
1:J:556:ASP:OD1	4:Y:47:MET:HE3	1.39	1.20
1:S:798:LEU:CD1	3:U:126:LEU:CD1	2.12	1.20
1:S:836:PHE:CZ	2:T:160:GLY:N	2.09	1.20
1:A:721:LYS:CG	1:A:736:GLN:OE1	1.82	1.20
2:B:117:LEU:CD1	2:B:147:ASN:CB	2.19	1.20
1:D:641:LYS:CG	1:D:647:GLN:HG3	1.70	1.20
1:D:793:ARG:NH2	3:F:147:MET:HE3	1.53	1.20
1:J:792:ALA:CA	3:L:42:THR:HG22	1.70	1.20
1:M:35:MLY:HH22	1:M:777:GLU:CG	1.71	1.20
1:M:630:ALA:O	4:Z:25:ASP:OD2	1.52	1.20
1:G:754:ASP:CA	1:G:779:ARG:CD	2.17	1.20
1:M:538:GLU:OE2	4:Z:355:MET:CE	1.90	1.20
1:A:93:MET:HE2	1:A:715:VAL:CA	1.70	1.19
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	1.19
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.66	1.19
1:J:641:LYS:CG	1:J:647:GLN:HG3	1.71	1.19
1:S:641:LYS:CG	1:S:647:GLN:HG3	1.71	1.19
4:7:322:PRO:HB2	4:9:244:ASP:OD2	1.39	1.19
1:D:538:GLU:O	4:9:349:LEU:HD11	1.35	1.19
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.39	1.19
1:G:728:ASN:CG	3:I:114:LEU:HD21	1.66	1.19
1:G:795:ARG:NH2	3:I:116:GLU:CG	2.05	1.19
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.19
1:J:557:GLU:CA	4:Y:48:GLY:N	1.98	1.19
1:S:538:GLU:OE2	4:2:355:MET:CE	1.90	1.19
1:S:783:LEU:HA	1:S:786:ILE:HG13	1.20	1.19
4:1:287:ILE:CG2	4:3:202:THR:CB	1.98	1.19
4:2:290:ARG:NH2	4:4:202:THR:HG22	1.58	1.19
4:4:288:ASP:OD2	4:6:203:THR:CG2	1.89	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.19
2:E:111:SER:CB	2:E:148:VAL:C	1.93	1.19
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	1.19
1:S:538:GLU:C	4:2:349:LEU:HD11	1.54	1.19
1:A:795:ARG:HB3	3:C:35:ARG:NH2	1.57	1.19
1:A:800:ARG:CB	3:C:149:VAL:HG22	1.71	1.19
1:A:817:GLN:CD	2:B:127:ARG:NE	1.99	1.19
1:J:819:ASN:ND2	2:K:92:ASP:HB2	1.53	1.19
2:K:117:LEU:HD12	2:K:147:ASN:OD1	1.32	1.19
2:K:117:LEU:CD1	2:K:147:ASN:CB	2.19	1.19
1:M:553:MLY:CE	4:2:45:VAL:HA	1.52	1.19
1:M:557:GLU:H	4:2:48:GLY:CA	1.56	1.19
1:M:805:ALA:C	1:M:807:VAL:N	2.00	1.19
1:M:829:TRP:CZ2	2:N:87:LYS:HE2	1.78	1.19
1:S:796:GLY:CA	3:U:35:ARG:HD3	1.71	1.19
1:S:798:LEU:CD1	3:U:126:LEU:CD2	2.20	1.19
1:A:800:ARG:HD2	3:C:149:VAL:C	1.68	1.19
1:A:839:MLY:HH13	2:B:159:HIS:CD2	1.76	1.19
1:J:538:GLU:OE2	4:W:355:MET:CE	1.90	1.19
2:T:117:LEU:CD1	2:T:147:ASN:CB	2.19	1.19
4:4:287:ILE:CG2	4:6:202:THR:OG1	1.84	1.19
1:J:28:GLN:C	1:J:723:ARG:NH2	1.99	1.18
1:J:95:THR:CA	1:J:713:SER:HB3	1.72	1.18
2:K:111:SER:CB	2:K:148:VAL:C	1.92	1.18
1:M:721:LYS:HA	1:M:736:GLN:NE2	1.58	1.18
1:M:783:LEU:CG	1:M:786:ILE:CD1	1.79	1.18
1:S:549:SER:HA	4:4:43:VAL:HG11	1.19	1.18
4:2:244:ASP:OD2	4:Z:322:PRO:HB2	1.39	1.18
1:A:735:GLY:O	1:A:743:ALA:CB	1.91	1.18
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.18
1:G:553:MLY:CE	4:X:45:VAL:CB	2.22	1.18
1:G:641:LYS:CB	1:G:647:GLN:NE2	2.07	1.18
1:J:721:LYS:HA	1:J:736:GLN:NE2	1.58	1.18
1:M:798:LEU:HD11	3:O:126:LEU:CG	1.74	1.18
1:S:641:LYS:CD	1:S:647:GLN:NE2	1.99	1.18
2:T:121:LEU:C	2:T:128:PHE:HB2	1.67	1.18
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	1.18
1:M:541:MET:C	4:Z:143:TYR:OH	1.87	1.18
1:M:786:ILE:C	1:M:787:ILE:N	2.02	1.18
1:S:641:LYS:HD2	1:S:647:GLN:NE2	1.59	1.18
1:S:641:LYS:CB	1:S:647:GLN:NE2	2.07	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:GLN:NE2	3:C:116:GLU:H	1.41	1.18
1:D:538:GLU:HA	4:9:349:LEU:CD1	1.55	1.18
1:D:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.18
1:D:641:LYS:CB	1:D:647:GLN:NE2	2.07	1.18
2:E:117:LEU:HD12	2:E:147:ASN:OD1	1.32	1.18
1:G:557:GLU:CA	4:X:48:GLY:N	1.99	1.18
1:G:721:LYS:HA	1:G:736:GLN:NE2	1.58	1.18
1:J:538:GLU:HA	4:W:349:LEU:CD1	1.55	1.18
1:J:553:MLY:HG3	4:Y:45:VAL:O	1.01	1.18
1:J:739:ASP:HB3	1:J:742:LYS:HB3	1.21	1.18
1:J:817:GLN:CD	2:K:127:ARG:HD2	1.69	1.18
1:S:829:TRP:CZ3	2:T:87:LYS:NZ	2.12	1.18
1:A:557:GLU:H	4:V:48:GLY:CA	1.56	1.18
2:B:121:LEU:C	2:B:128:PHE:HB2	1.67	1.18
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	1.18
1:G:541:MET:C	4:V:143:TYR:OH	1.87	1.18
1:J:641:LYS:CB	1:J:647:GLN:NE2	2.07	1.18
1:M:641:LYS:CB	1:M:647:GLN:NE2	2.07	1.18
2:N:117:LEU:CD1	2:N:147:ASN:CB	2.19	1.18
1:A:641:LYS:CB	1:A:647:GLN:NE2	2.07	1.17
1:D:201:ALA:O	1:D:202:SER:HB3	1.36	1.17
1:D:735:GLY:O	1:D:743:ALA:CB	1.91	1.17
1:G:538:GLU:OE2	4:V:355:MET:CE	1.90	1.17
1:G:817:GLN:OE1	2:H:127:ARG:HD2	1.41	1.17
1:J:94:MET:O	1:J:713:SER:HB3	1.43	1.17
1:J:538:GLU:O	4:W:349:LEU:HD11	1.35	1.17
1:S:728:ASN:OD1	3:U:90:GLY:HA2	1.00	1.17
4:9:322:PRO:HB2	4:W:244:ASP:OD2	1.39	1.17
1:A:95:THR:OG1	1:A:769:ALA:HA	1.45	1.17
1:A:538:GLU:OE2	4:8:355:MET:CE	1.91	1.17
1:D:797:PHE:CE1	3:F:146:ILE:HA	1.78	1.17
1:D:834:LEU:HD21	2:E:54:MET:HE3	1.26	1.17
1:G:553:MLY:HG3	4:X:45:VAL:O	1.01	1.17
1:G:639:GLY:HA2	4:V:345:ILE:HA	1.26	1.17
2:H:144:VAL:CG1	2:H:153:ILE:HD11	1.64	1.17
1:J:553:MLY:CE	4:Y:45:VAL:CB	2.21	1.17
1:J:721:LYS:HG3	1:J:736:GLN:HG2	1.25	1.17
1:M:506:GLU:OE2	1:M:761:GLY:CA	1.91	1.17
1:M:641:LYS:CD	1:M:647:GLN:NE2	1.99	1.17
2:N:121:LEU:C	2:N:128:PHE:HB2	1.67	1.17
2:N:163:ALA:C	2:T:21:GLU:HB2	1.69	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:144:VAL:CG1	2:T:153:ILE:HD11	1.64	1.17
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.17
1:J:541:MET:C	4:W:143:TYR:OH	1.87	1.17
1:J:553:MLY:HE2	4:Y:45:VAL:CB	1.74	1.17
3:O:48:LYS:C	3:O:52:ASN:ND2	2.03	1.17
3:U:48:LYS:C	3:U:52:ASN:ND2	2.03	1.17
4:2:202:THR:HG23	4:Z:290:ARG:NH2	1.59	1.17
4:9:290:ARG:NH2	4:W:202:THR:HG23	1.59	1.17
1:A:795:ARG:HG2	3:C:118:MET:HE1	1.23	1.17
3:C:48:LYS:C	3:C:52:ASN:ND2	2.03	1.17
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.44	1.17
1:G:90:ASP:OD2	1:G:764:MLY:HH11	1.02	1.17
1:G:639:GLY:CA	4:V:345:ILE:HA	1.73	1.17
1:G:792:ALA:HB2	3:I:42:THR:CB	1.73	1.17
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	1.17
1:S:795:ARG:HG3	3:U:118:MET:HE1	1.26	1.17
1:S:817:GLN:CB	2:T:127:ARG:HD2	1.73	1.17
2:T:111:SER:CB	2:T:148:VAL:C	1.92	1.17
4:7:290:ARG:NH2	4:9:202:THR:HG23	1.59	1.17
1:D:724:TYR:CA	1:D:782:MLY:CD	2.20	1.17
1:J:553:MLY:CE	4:Y:45:VAL:HG12	1.69	1.17
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.16
1:D:553:MLY:CE	4:W:45:VAL:HA	1.52	1.16
2:E:117:LEU:CD1	2:E:147:ASN:HB3	1.75	1.16
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	1.16
1:G:553:MLY:HE2	4:X:45:VAL:CB	1.75	1.16
1:G:640:LYS:HB3	1:G:645:SER:OG	1.46	1.16
1:J:640:LYS:HB3	1:J:645:SER:OG	1.46	1.16
1:J:641:LYS:CE	4:W:348:SER:O	1.93	1.16
2:K:117:LEU:CD1	2:K:147:ASN:HB3	1.75	1.16
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.16
1:S:795:ARG:HD2	3:U:43:ASN:OD1	0.98	1.16
1:S:819:ASN:HA	2:T:90:GLY:O	0.99	1.16
4:X:291:LYS:CD	4:Z:244:ASP:N	2.07	1.16
1:A:721:LYS:HA	1:A:736:GLN:NE2	1.59	1.16
1:D:639:GLY:CA	4:9:345:ILE:HA	1.73	1.16
1:D:649:VAL:HA	1:D:649:VAL:CG2	1.76	1.16
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.70	1.16
1:G:754:ASP:CG	1:G:779:ARG:HD2	1.69	1.16
1:M:641:LYS:CE	4:Z:348:SER:O	1.93	1.16
1:M:735:GLY:O	1:M:743:ALA:CB	1.91	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:541:MET:C	4:2:143:TYR:OH	1.87	1.16
1:S:721:LYS:HA	1:S:736:GLN:NE2	1.58	1.16
4:V:325:MET:SD	4:X:244:ASP:CB	2.33	1.16
1:A:642:LYS:CG	4:8:23:GLY:N	2.09	1.16
1:A:768:MLY:HB3	1:A:771:LEU:CB	1.75	1.16
1:D:85:TYR:OH	1:D:772:LEU:HD23	1.24	1.16
1:D:541:MET:C	4:9:143:TYR:OH	1.87	1.16
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.16
1:D:721:LYS:HG3	1:D:736:GLN:HG2	1.25	1.16
1:G:642:LYS:CG	4:V:23:GLY:N	2.08	1.16
1:G:831:TRP:HH2	2:H:47:LEU:CD2	1.36	1.16
1:J:557:GLU:HB3	4:Y:46:GLY:O	0.99	1.16
1:S:797:PHE:CE2	3:U:146:ILE:HD12	1.78	1.16
4:1:288:ASP:OD2	4:3:203:THR:HG21	1.46	1.16
4:X:291:LYS:HE3	4:Z:243:PRO:HB3	1.24	1.16
1:A:502:GLU:CG	1:A:761:GLY:HA3	1.76	1.16
1:A:641:LYS:CE	4:8:348:SER:O	1.93	1.16
1:A:641:LYS:CE	1:A:647:GLN:CD	2.18	1.16
1:D:215:GLN:HA	1:D:340:ILE:CG2	1.76	1.16
1:D:712:PRO:CG	1:D:771:LEU:HB2	1.76	1.16
1:G:641:LYS:CE	4:V:348:SER:O	1.93	1.16
1:J:201:ALA:O	1:J:202:SER:HB3	1.35	1.16
1:J:642:LYS:CG	4:W:23:GLY:N	2.08	1.16
1:J:735:GLY:O	1:J:743:ALA:CB	1.91	1.16
2:K:144:VAL:CG1	2:K:153:ILE:HD11	1.65	1.16
2:T:117:LEU:HB2	2:T:147:ASN:CG	1.70	1.16
4:7:287:ILE:HG21	4:9:205:GLU:HG2	1.17	1.16
1:A:792:ALA:HB2	3:C:42:THR:HG22	1.24	1.16
1:D:642:LYS:CG	4:9:23:GLY:N	2.08	1.16
1:D:747:LEU:CD1	1:D:782:MLY:CH2	2.18	1.16
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.70	1.16
1:M:640:LYS:HB3	1:M:645:SER:OG	1.45	1.16
1:S:641:LYS:CE	1:S:647:GLN:CD	2.18	1.16
1:S:727:LEU:HD23	1:S:783:LEU:HB3	1.20	1.16
1:S:831:TRP:CH2	2:T:47:LEU:HD22	1.76	1.16
1:A:639:GLY:CA	4:8:345:ILE:HA	1.74	1.15
1:A:707:CYS:HA	1:A:714:ARG:CZ	1.65	1.15
2:B:117:LEU:HB2	2:B:147:ASN:CG	1.71	1.15
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.15
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.15
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:757:GLN:HG2	1:G:776:GLU:OE2	1.43	1.15
2:H:117:LEU:CD1	2:H:147:ASN:HB3	1.76	1.15
1:J:95:THR:HA	1:J:713:SER:OG	1.43	1.15
1:J:649:VAL:HA	1:J:649:VAL:CG2	1.76	1.15
1:M:639:GLY:CA	4:Z:345:ILE:HA	1.73	1.15
1:S:641:LYS:CE	4:2:348:SER:O	1.93	1.15
1:S:752:ASP:HB3	3:U:86:ASP:OD2	1.46	1.15
4:8:322:PRO:HB2	4:V:244:ASP:OD2	1.39	1.15
1:A:541:MET:C	4:8:143:TYR:OH	1.87	1.15
1:D:201:ALA:O	1:D:202:SER:CB	1.92	1.15
1:D:507:GLY:HA3	1:D:762:HIS:CG	1.80	1.15
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.15
1:J:768:MLY:HB2	1:J:773:GLY:CA	1.74	1.15
1:M:641:LYS:CE	1:M:647:GLN:CD	2.18	1.15
2:N:117:LEU:HB2	2:N:147:ASN:CG	1.70	1.15
1:S:215:GLN:HA	1:S:340:ILE:CG2	1.75	1.15
1:S:731:ALA:O	3:U:93:VAL:HG12	1.45	1.15
1:S:750:GLY:HA2	3:U:89:GLU:HB3	1.17	1.15
1:S:770:GLY:O	1:S:774:LEU:N	1.68	1.15
4:1:244:ASP:CB	4:Y:325:MET:SD	2.33	1.15
1:A:201:ALA:O	1:A:202:SER:CB	1.92	1.15
1:A:640:LYS:HB3	1:A:645:SER:OG	1.46	1.15
1:D:836:PHE:CE1	2:E:159:HIS:HB2	1.80	1.15
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.15
1:G:149:GLN:CD	1:G:763:THR:HG21	1.60	1.15
1:J:801:VAL:HG21	3:L:126:LEU:CD2	1.76	1.15
1:M:642:LYS:CG	4:Z:23:GLY:N	2.08	1.15
2:N:117:LEU:CD1	2:N:147:ASN:HB3	1.76	1.15
2:N:144:VAL:CG1	2:N:153:ILE:HD11	1.64	1.15
1:S:218:LEU:HB2	1:S:221:GLN:HG3	1.17	1.15
1:D:641:LYS:CE	4:9:348:SER:O	1.93	1.15
1:D:713:SER:HB2	1:D:775:LEU:CD2	1.77	1.15
1:G:215:GLN:HA	1:G:340:ILE:CG2	1.76	1.15
2:H:111:SER:CB	2:H:148:VAL:C	1.93	1.15
1:J:641:LYS:HD2	1:J:647:GLN:NE2	1.58	1.15
1:M:201:ALA:O	1:M:202:SER:CB	1.92	1.15
1:S:201:ALA:O	1:S:202:SER:HB3	1.35	1.15
1:S:639:GLY:HA2	4:2:345:ILE:HA	1.26	1.15
1:S:639:GLY:HA3	4:2:344:SER:O	1.46	1.15
4:3:324:THR:CB	4:5:244:ASP:HA	1.77	1.15
1:A:639:GLY:HA3	4:8:344:SER:O	1.47	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.15
2:B:117:LEU:CD1	2:B:147:ASN:HB3	1.76	1.15
1:D:736:GLN:N	1:D:743:ALA:CB	2.05	1.15
1:G:639:GLY:HA3	4:V:344:SER:O	1.47	1.15
2:K:111:SER:CA	2:K:148:VAL:O	1.95	1.15
1:M:215:GLN:HA	1:M:340:ILE:CG2	1.75	1.15
1:S:792:ALA:CB	3:U:42:THR:HA	1.76	1.15
4:3:288:ASP:OD2	4:5:203:THR:CG2	1.89	1.15
4:8:290:ARG:NH2	4:V:202:THR:HG23	1.59	1.15
4:9:287:ILE:HG21	4:W:205:GLU:HG2	1.17	1.15
1:A:795:ARG:HH21	3:C:116:GLU:HB3	1.08	1.14
1:G:201:ALA:O	1:G:202:SER:HB3	1.35	1.14
2:H:111:SER:CA	2:H:148:VAL:O	1.95	1.14
1:J:553:MLY:CE	4:Y:45:VAL:HG11	1.53	1.14
1:J:799:MET:SD	3:L:32:ASP:CB	2.35	1.14
2:K:112:ILE:O	2:K:147:ASN:O	1.65	1.14
1:M:218:LEU:HB2	1:M:221:GLN:HG3	1.17	1.14
2:N:121:LEU:CA	2:N:128:PHE:HB3	1.78	1.14
1:S:505:MLY:HH11	1:S:762:HIS:CE1	1.81	1.14
1:S:642:LYS:CG	4:2:23:GLY:N	2.08	1.14
1:A:215:GLN:HA	1:A:340:ILE:CG2	1.76	1.14
1:D:713:SER:CB	1:D:775:LEU:HD22	1.76	1.14
1:D:726:VAL:HG12	1:D:785:GLU:CB	1.78	1.14
1:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.14
2:H:121:LEU:CA	2:H:128:PHE:HB3	1.78	1.14
1:J:215:GLN:HA	1:J:340:ILE:CG2	1.75	1.14
1:J:641:LYS:CE	1:J:647:GLN:CD	2.18	1.14
1:M:95:THR:HA	1:M:713:SER:CB	1.77	1.14
1:M:542:PHE:HA	4:Z:143:TYR:CE1	1.82	1.14
1:M:639:GLY:HA3	4:Z:344:SER:O	1.46	1.14
1:M:795:ARG:NH2	3:O:116:GLU:HB3	0.81	1.14
2:N:111:SER:CA	2:N:148:VAL:O	1.95	1.14
1:S:542:PHE:HA	4:2:143:TYR:CE1	1.82	1.14
4:X:325:MET:SD	4:Z:244:ASP:OD2	2.04	1.14
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.14
1:A:795:ARG:CB	3:C:35:ARG:NH1	2.10	1.14
2:B:121:LEU:CA	2:B:128:PHE:HB3	1.77	1.14
1:G:557:GLU:HB3	4:X:46:GLY:O	0.99	1.14
1:J:831:TRP:CH2	2:K:47:LEU:HD21	1.83	1.14
2:K:121:LEU:CA	2:K:128:PHE:HB3	1.77	1.14
1:S:640:LYS:HB3	1:S:645:SER:OG	1.45	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:736:GLN:N	1:S:743:ALA:CB	2.05	1.14
1:S:792:ALA:HB2	3:U:42:THR:CA	1.78	1.14
1:S:795:ARG:HB3	3:U:35:ARG:NH2	1.62	1.14
4:2:112:PRO:HG2	4:3:197:GLY:CA	1.76	1.14
4:4:324:THR:CB	4:6:244:ASP:HA	1.77	1.14
2:B:111:SER:CA	2:B:148:VAL:O	1.95	1.14
1:D:506:GLU:OE2	1:D:764:MLY:HH22	1.46	1.14
2:H:117:LEU:HD12	2:H:147:ASN:OD1	1.32	1.14
1:M:817:GLN:CB	2:N:127:ARG:HD2	1.77	1.14
1:S:821:ARG:NH2	2:T:127:ARG:HG2	1.62	1.14
4:W:325:MET:SD	4:Y:244:ASP:CB	2.33	1.14
1:A:635:GLY:HA2	4:8:334:GLU:HG2	1.16	1.14
1:A:641:LYS:NZ	4:8:348:SER:O	1.80	1.14
1:A:817:GLN:CD	2:B:127:ARG:CD	2.20	1.14
1:D:641:LYS:NZ	4:9:348:SER:O	1.80	1.14
1:D:724:TYR:HA	1:D:782:MLY:CD	1.74	1.14
1:G:215:GLN:N	1:G:340:ILE:HG12	1.19	1.14
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	1.14
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	1.14
1:S:817:GLN:HB3	2:T:127:ARG:NH1	1.61	1.14
2:T:111:SER:CA	2:T:148:VAL:O	1.95	1.14
4:2:112:PRO:HB3	4:3:196:ARG:HA	1.19	1.14
2:E:112:ILE:O	2:E:147:ASN:O	1.65	1.13
1:J:768:MLY:CB	1:J:773:GLY:CA	2.23	1.13
1:J:817:GLN:CG	2:K:127:ARG:HB2	1.78	1.13
1:S:599:ASN:OD1	1:S:649:VAL:CB	1.96	1.13
1:S:721:LYS:HA	1:S:736:GLN:CD	1.73	1.13
4:3:288:ASP:CG	4:5:203:THR:HG21	1.60	1.13
1:A:639:GLY:HA2	4:8:345:ILE:HA	1.26	1.13
1:A:839:MLY:CH1	2:B:159:HIS:HD2	1.62	1.13
1:D:542:PHE:HA	4:9:143:TYR:CE1	1.82	1.13
1:G:84:MLY:HH22	1:G:719:ASP:O	1.22	1.13
1:G:649:VAL:HG22	1:G:649:VAL:HG13	1.21	1.13
1:J:599:ASN:OD1	1:J:649:VAL:CB	1.96	1.13
1:J:641:LYS:NZ	4:W:348:SER:O	1.80	1.13
1:J:795:ARG:NE	3:L:116:GLU:OE2	1.81	1.13
1:S:783:LEU:CG	1:S:786:ILE:CD1	2.20	1.13
2:T:117:LEU:CD1	2:T:147:ASN:HB3	1.76	1.13
4:4:287:ILE:HD13	4:6:203:THR:HB	1.15	1.13
1:A:149:GLN:NE2	1:A:718:ALA:CB	2.10	1.13
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.13
1:A:709:LYS:C	1:A:710:GLY:HA3	1.73	1.13
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.13
1:J:84:MLY:CD	1:J:724:TYR:HE2	1.50	1.13
1:J:542:PHE:HA	4:W:143:TYR:CE1	1.82	1.13
1:M:641:LYS:NZ	4:Z:348:SER:O	1.80	1.13
1:M:836:PHE:CE1	2:N:159:HIS:CA	2.30	1.13
1:S:148:ARG:HH22	1:S:764:MLY:CH2	1.60	1.13
1:S:838:ILE:CD1	2:T:54:MET:HE3	1.76	1.13
1:A:641:LYS:CE	1:A:647:GLN:OE1	1.97	1.13
2:B:112:ILE:O	2:B:147:ASN:O	1.65	1.13
2:E:121:LEU:CA	2:E:128:PHE:HB3	1.77	1.13
1:G:795:ARG:CZ	3:I:116:GLU:HB3	1.79	1.13
1:J:94:MET:C	1:J:713:SER:HB3	1.72	1.13
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.13
1:J:768:MLY:HB2	1:J:773:GLY:HA3	1.30	1.13
1:M:649:VAL:HA	1:M:649:VAL:CG2	1.76	1.13
1:S:538:GLU:OE2	4:2:355:MET:HE1	1.44	1.13
1:S:735:GLY:O	1:S:743:ALA:CB	1.91	1.13
1:S:739:ASP:HB3	1:S:742:LYS:HB3	1.21	1.13
2:T:121:LEU:CA	2:T:128:PHE:HB3	1.78	1.13
4:3:287:ILE:CG2	4:5:202:THR:OG1	1.84	1.13
2:B:111:SER:CB	2:B:148:VAL:C	1.93	1.12
2:B:117:LEU:HD12	2:B:147:ASN:OD1	1.32	1.13
1:A:799:MET:CE	3:C:32:ASP:HB3	1.78	1.12
1:D:639:GLY:HA3	4:9:344:SER:O	1.46	1.12
2:E:111:SER:CA	2:E:148:VAL:O	1.95	1.13
1:G:542:PHE:HA	4:V:143:TYR:CE1	1.82	1.12
1:G:599:ASN:OD1	1:G:649:VAL:CB	1.96	1.12
1:G:649:VAL:HA	1:G:649:VAL:CG2	1.76	1.13
1:M:538:GLU:OE2	4:Z:355:MET:HE1	1.44	1.13
1:M:599:ASN:OD1	1:M:649:VAL:CB	1.96	1.13
1:M:721:LYS:HA	1:M:736:GLN:CD	1.73	1.13
1:D:641:LYS:CE	1:D:647:GLN:OE1	1.97	1.12
2:K:111:SER:HB3	2:K:148:VAL:O	1.50	1.12
1:M:201:ALA:O	1:M:202:SER:HB3	1.35	1.12
1:M:720:PHE:HE1	1:M:772:LEU:HD22	1.07	1.12
2:T:112:ILE:O	2:T:147:ASN:O	1.65	1.12
1:A:505:MLY:CA	1:A:762:HIS:HD2	1.56	1.12
1:A:599:ASN:OD1	1:A:649:VAL:CB	1.96	1.12
1:D:599:ASN:OD1	1:D:649:VAL:CB	1.96	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.12
1:J:639:GLY:HA2	4:W:345:ILE:HA	1.26	1.12
1:J:757:GLN:HA	1:J:776:GLU:HG3	1.16	1.12
1:S:641:LYS:HD2	1:S:647:GLN:CD	1.70	1.12
1:S:641:LYS:NZ	4:2:348:SER:O	1.80	1.12
4:1:287:ILE:CB	4:3:202:THR:HB	1.77	1.12
2:B:121:LEU:C	2:B:128:PHE:HB3	1.72	1.12
1:D:726:VAL:HG11	1:D:785:GLU:HB3	1.16	1.12
1:D:798:LEU:HD11	3:F:126:LEU:CG	1.79	1.12
1:G:641:LYS:NZ	4:V:348:SER:O	1.80	1.12
1:G:819:ASN:CG	2:H:92:ASP:CB	2.14	1.12
1:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.12
1:J:538:GLU:OE2	4:W:355:MET:HE1	1.44	1.12
1:J:788:THR:O	3:L:42:THR:HG21	1.49	1.12
1:J:820:VAL:CG1	2:K:136:MET:HE1	1.79	1.12
1:M:95:THR:CA	1:M:713:SER:HB3	1.80	1.12
1:M:739:ASP:HB3	1:M:742:LYS:HB3	1.21	1.12
1:M:795:ARG:HG3	3:O:118:MET:HE1	1.18	1.12
2:N:117:LEU:HD12	2:N:147:ASN:OD1	1.32	1.12
1:S:215:GLN:N	1:S:340:ILE:HG12	1.20	1.12
4:3:288:ASP:CG	4:5:203:THR:HG23	1.66	1.12
2:B:121:LEU:O	2:B:128:PHE:HB2	0.94	1.12
1:D:739:ASP:HB3	1:D:742:LYS:HB3	1.21	1.12
1:J:623:PHE:CG	1:J:623:PHE:CB	2.33	1.12
1:J:639:GLY:HA3	4:W:344:SER:O	1.46	1.12
1:M:623:PHE:CG	1:M:623:PHE:CB	2.33	1.12
1:M:819:ASN:HA	2:N:90:GLY:O	0.95	1.12
1:S:649:VAL:CG2	1:S:649:VAL:HA	1.77	1.12
1:S:783:LEU:C	1:S:786:ILE:HG13	1.72	1.12
1:S:836:PHE:CE1	2:T:160:GLY:N	2.16	1.12
4:2:205:GLU:HG2	4:Z:287:ILE:HG21	1.17	1.12
1:A:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.12
1:A:649:VAL:HA	1:A:649:VAL:CG2	1.76	1.12
1:A:791:GLN:HE22	3:C:116:GLU:N	1.47	1.12
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.23	1.12
1:D:813:ILE:HG21	2:E:128:PHE:CE1	1.76	1.12
1:G:641:LYS:CE	1:G:647:GLN:OE1	1.97	1.12
1:G:641:LYS:HD2	1:G:647:GLN:NE2	1.59	1.12
1:G:728:ASN:OD1	3:I:114:LEU:HD21	1.43	1.12
1:J:831:TRP:CH2	2:K:47:LEU:CD2	2.33	1.12
1:M:635:GLY:HA2	4:Z:334:GLU:HG2	1.16	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:641:LYS:CE	1:M:647:GLN:OE1	1.97	1.12
1:S:721:LYS:HG3	1:S:736:GLN:HG2	1.25	1.12
2:T:121:LEU:C	2:T:128:PHE:HB3	1.72	1.12
4:4:288:ASP:CG	4:6:203:THR:HG23	1.66	1.12
4:X:324:THR:CG2	4:Z:247:VAL:CG2	2.26	1.12
1:A:795:ARG:HB3	3:C:35:ARG:NH1	1.62	1.11
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.59	1.11
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.11
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.11
1:J:93:MET:HE1	1:J:716:LEU:HD12	1.31	1.11
1:J:635:GLY:HA2	4:W:334:GLU:HG2	1.16	1.11
1:J:641:LYS:CE	1:J:647:GLN:OE1	1.97	1.11
1:S:641:LYS:CE	1:S:647:GLN:OE1	1.97	1.11
4:1:288:ASP:CG	4:3:203:THR:CG2	2.22	1.11
4:3:287:ILE:HD13	4:5:203:THR:HB	1.15	1.11
1:A:795:ARG:CD	3:C:43:ASN:OD1	1.98	1.11
1:A:839:MLY:CH1	2:B:159:HIS:CD2	2.33	1.11
1:D:623:PHE:CB	1:D:623:PHE:CG	2.33	1.11
1:D:797:PHE:HE1	3:F:146:ILE:HA	1.00	1.11
2:H:121:LEU:O	2:H:128:PHE:HB2	0.94	1.11
1:M:538:GLU:C	4:Z:349:LEU:HD11	1.54	1.11
1:S:93:MET:CE	1:S:764:MLY:HD2	1.80	1.11
1:S:641:LYS:HG3	1:S:647:GLN:HG3	1.20	1.11
1:S:791:GLN:HE22	3:U:115:GLY:CA	1.61	1.11
2:T:117:LEU:HD12	2:T:147:ASN:OD1	1.32	1.11
4:9:290:ARG:CZ	4:W:202:THR:HG21	1.81	1.11
1:A:721:LYS:CG	1:A:736:GLN:CG	1.97	1.11
1:D:734:GLU:O	1:D:738:MET:HG2	1.51	1.11
1:G:148:ARG:HH21	1:G:764:MLY:HH21	1.11	1.11
1:G:218:LEU:HB2	1:G:221:GLN:HG3	1.17	1.11
1:J:639:GLY:CA	4:W:345:ILE:HA	1.73	1.11
2:K:121:LEU:O	2:K:128:PHE:HB2	0.94	1.11
1:M:641:LYS:HE3	1:M:647:GLN:OE1	1.50	1.11
1:S:838:ILE:HD11	2:T:54:MET:HE3	1.16	1.11
3:U:24:LYS:CB	3:U:63:ILE:O	1.99	1.11
1:A:95:THR:OG1	1:A:769:ALA:CA	1.99	1.11
1:A:218:LEU:HB2	1:A:221:GLN:HG3	1.17	1.11
1:A:623:PHE:CB	1:A:623:PHE:CG	2.33	1.11
1:A:831:TRP:CZ2	2:B:47:LEU:HA	1.84	1.11
1:G:795:ARG:HH21	3:I:116:GLU:CB	1.63	1.11
1:M:798:LEU:HD12	3:O:126:LEU:HD21	1.28	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:817:GLN:HB3	2:N:127:ARG:HH11	1.13	1.11
1:M:838:ILE:CD1	2:N:54:MET:HE3	1.81	1.11
1:S:806:MET:N	1:S:807:VAL:N	1.97	1.11
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.11
1:A:795:ARG:NE	3:C:43:ASN:OD1	1.82	1.11
3:C:24:LYS:CB	3:C:63:ILE:O	1.99	1.11
1:D:797:PHE:CG	3:F:146:ILE:HG23	1.86	1.11
1:G:754:ASP:OD2	1:G:779:ARG:HB2	1.42	1.11
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	1.11
2:N:112:ILE:O	2:N:147:ASN:O	1.65	1.11
3:O:24:LYS:CB	3:O:63:ILE:O	1.99	1.11
1:S:530:MET:CE	4:2:354:GLN:HG2	1.80	1.11
1:S:709:LYS:O	1:S:710:GLY:N	1.84	1.11
1:A:538:GLU:OE2	4:8:355:MET:HE1	1.45	1.10
1:A:721:LYS:HG3	1:A:736:GLN:HG2	1.25	1.10
1:D:769:ALA:C	1:D:774:LEU:HB2	1.74	1.10
1:G:538:GLU:OE2	4:V:355:MET:HE1	1.44	1.10
1:G:641:LYS:HE3	1:G:647:GLN:OE1	1.50	1.10
1:J:95:THR:CA	1:J:713:SER:CB	2.29	1.10
1:J:557:GLU:HB3	4:Y:46:GLY:C	1.75	1.10
1:J:797:PHE:CE1	3:L:146:ILE:CG2	2.30	1.10
3:L:24:LYS:CB	3:L:63:ILE:O	1.99	1.10
1:M:797:PHE:CD1	3:O:149:VAL:HG11	1.83	1.10
1:S:805:ALA:C	1:S:807:VAL:N	2.09	1.10
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.10
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.10
1:G:553:MLY:CE	4:X:45:VAL:HG12	1.69	1.10
1:J:649:VAL:HG22	1:J:649:VAL:HG13	1.21	1.10
1:M:649:VAL:O	1:M:649:VAL:HG12	0.94	1.10
2:N:111:SER:CB	2:N:148:VAL:C	1.92	1.10
1:S:639:GLY:CA	4:2:345:ILE:HA	1.73	1.10
1:S:783:LEU:CB	1:S:786:ILE:CD1	2.29	1.10
4:8:290:ARG:CZ	4:V:202:THR:HG21	1.81	1.10
1:A:502:GLU:CG	1:A:761:GLY:CA	2.20	1.10
1:D:202:SER:CA	1:D:207:LYS:HE2	1.82	1.10
1:G:530:MET:CE	4:V:354:GLN:HG2	1.80	1.10
1:G:734:GLU:O	1:G:738:MET:HG2	1.51	1.10
1:G:754:ASP:OD2	1:G:779:ARG:HB3	1.35	1.10
1:J:571:ALA:O	1:J:572:LYS:HG3	1.52	1.10
1:M:530:MET:CE	4:Z:354:GLN:HG2	1.80	1.10
1:M:831:TRP:HH2	2:N:47:LEU:HD21	1.15	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:635:GLY:HA2	4:2:334:GLU:HG2	1.16	1.10
4:8:287:ILE:HG21	4:V:205:GLU:HG2	1.17	1.10
1:D:635:GLY:HA2	4:9:334:GLU:HG2	1.16	1.10
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	1.10
1:D:795:ARG:CB	3:F:35:ARG:NH1	2.14	1.10
1:G:649:VAL:O	1:G:649:VAL:HG12	0.94	1.10
1:S:623:PHE:CB	1:S:623:PHE:CG	2.33	1.10
1:S:734:GLU:O	1:S:738:MET:HG2	1.51	1.10
1:A:739:ASP:HB3	1:A:742:LYS:HB3	1.22	1.10
1:D:800:ARG:NH2	3:F:40:ASN:ND2	2.00	1.10
1:G:623:PHE:CB	1:G:623:PHE:CG	2.33	1.10
3:I:24:LYS:CB	3:I:63:ILE:O	1.99	1.10
1:J:649:VAL:O	1:J:649:VAL:HG12	0.94	1.10
1:J:710:GLY:CA	1:J:772:LEU:CD2	2.06	1.10
1:M:571:ALA:O	1:M:572:LYS:HG3	1.52	1.10
1:M:641:LYS:HG3	1:M:647:GLN:HG3	1.20	1.10
1:M:734:GLU:O	1:M:738:MET:HG2	1.51	1.10
1:M:800:ARG:NH2	3:O:40:ASN:OD1	1.84	1.10
1:S:649:VAL:O	1:S:649:VAL:HG12	0.94	1.10
1:S:731:ALA:C	3:U:93:VAL:HG12	1.75	1.10
1:S:805:ALA:O	1:S:809:ARG:N	1.84	1.10
4:2:202:THR:HG21	4:Z:290:ARG:CZ	1.81	1.10
1:A:201:ALA:O	1:A:202:SER:HB3	1.35	1.09
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	1.09
1:D:649:VAL:O	1:D:649:VAL:HG12	0.94	1.09
1:D:726:VAL:HG12	1:D:785:GLU:HG2	1.33	1.09
2:E:111:SER:HB3	2:E:148:VAL:O	1.50	1.09
2:E:121:LEU:O	2:E:128:PHE:HB2	0.94	1.09
1:G:641:LYS:HG3	1:G:647:GLN:HG3	1.21	1.09
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	1.09
1:J:538:GLU:CD	4:W:355:MET:HE1	1.77	1.09
1:J:768:MLY:HH11	1:J:772:LEU:HD12	1.19	1.09
1:J:797:PHE:CZ	3:L:126:LEU:HD22	1.87	1.09
1:M:538:GLU:O	4:Z:349:LEU:HD11	1.35	1.09
2:N:121:LEU:O	2:N:128:PHE:HB2	0.94	1.09
1:S:538:GLU:CD	4:2:355:MET:HE1	1.77	1.09
1:S:538:GLU:HA	4:2:349:LEU:CD1	1.55	1.09
2:T:121:LEU:O	2:T:128:PHE:HB2	0.94	1.09
4:2:112:PRO:HB3	4:3:196:ARG:C	1.76	1.09
4:2:112:PRO:CB	4:3:196:ARG:C	2.25	1.09
1:D:530:MET:CE	4:9:354:GLN:HG2	1.80	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:571:ALA:O	1:D:572:LYS:HG3	1.52	1.09
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	1.09
2:H:111:SER:HB3	2:H:148:VAL:O	1.49	1.09
1:J:557:GLU:HA	4:Y:48:GLY:N	1.13	1.09
1:J:799:MET:SD	3:L:32:ASP:HB3	1.92	1.09
1:M:538:GLU:CD	4:Z:355:MET:HE1	1.77	1.09
1:A:641:LYS:HE3	1:A:647:GLN:OE1	1.50	1.09
1:A:649:VAL:O	1:A:649:VAL:HG12	0.94	1.09
1:A:795:ARG:HH21	3:C:116:GLU:CB	1.65	1.09
1:A:797:PHE:HE2	3:C:126:LEU:HD22	1.11	1.09
1:G:201:ALA:O	1:G:202:SER:CB	1.92	1.09
1:G:553:MLY:HE2	4:X:45:VAL:HB	1.09	1.09
1:G:721:LYS:HG3	1:G:736:GLN:HG2	1.25	1.09
1:J:756:THR:HG21	1:J:776:GLU:O	1.50	1.09
1:A:501:GLU:CG	1:A:762:HIS:HD1	1.64	1.09
1:A:505:MLY:HB3	1:A:762:HIS:H	1.14	1.09
1:A:538:GLU:HA	4:8:349:LEU:CD1	1.54	1.09
1:A:571:ALA:O	1:A:572:LYS:HG3	1.52	1.09
1:D:538:GLU:CD	4:9:355:MET:HE1	1.77	1.09
1:D:834:LEU:HD11	2:E:54:MET:CB	1.81	1.09
1:G:641:LYS:HD2	1:G:647:GLN:CD	1.70	1.09
1:G:736:GLN:N	1:G:743:ALA:CB	2.04	1.09
1:G:739:ASP:HB3	1:G:742:LYS:HB3	1.21	1.09
1:J:84:MLY:CA	1:J:723:ARG:CZ	2.19	1.09
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	1.09
1:J:641:LYS:HE3	1:J:647:GLN:OE1	1.50	1.09
2:K:121:LEU:C	2:K:128:PHE:HB3	1.71	1.09
1:S:92:ALA:HB3	1:S:764:MLY:CH1	1.80	1.09
4:7:290:ARG:CZ	4:9:202:THR:HG21	1.81	1.09
1:A:505:MLY:N	1:A:762:HIS:CD2	2.21	1.09
1:A:530:MET:CE	4:8:354:GLN:HG2	1.80	1.09
1:A:643:GLY:O	1:A:644:SER:OG	1.70	1.09
1:A:734:GLU:O	1:A:738:MET:HG2	1.51	1.09
1:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.09
1:D:649:VAL:HG22	1:D:649:VAL:HG13	1.21	1.09
1:D:727:LEU:CB	1:D:782:MLY:HH12	1.77	1.09
2:E:162:ASP:O	2:K:21:GLU:HB2	1.49	1.09
1:G:92:ALA:O	1:G:714:ARG:CG	2.01	1.09
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.09
1:G:797:PHE:CZ	3:I:126:LEU:HD22	1.87	1.09
1:G:831:TRP:HE1	2:H:67:MET:HB3	1.02	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:201:ALA:O	1:J:202:SER:CB	1.92	1.09
1:J:530:MET:CE	4:W:354:GLN:HG2	1.80	1.09
1:M:639:GLY:HA3	4:Z:344:SER:C	1.78	1.09
1:M:641:LYS:HE3	1:M:647:GLN:CD	1.77	1.09
1:A:822:SER:OG	2:B:88:LEU:HD23	0.93	1.08
1:A:831:TRP:CE2	2:B:51:PHE:CZ	2.41	1.08
1:D:638:GLY:CA	4:9:341:ILE:O	2.01	1.08
1:D:712:PRO:HG2	1:D:771:LEU:CB	1.82	1.08
1:G:202:SER:CA	1:G:207:LYS:HE2	1.82	1.08
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	1.08
1:G:571:ALA:O	1:G:572:LYS:HG3	1.52	1.08
1:G:795:ARG:CB	3:I:118:MET:HE1	1.81	1.08
1:G:797:PHE:CD1	3:I:146:ILE:HG23	1.88	1.08
2:H:112:ILE:O	2:H:147:ASN:O	1.65	1.08
1:J:643:GLY:O	1:J:644:SER:OG	1.69	1.08
1:J:799:MET:SD	3:L:32:ASP:OD2	2.07	1.08
1:M:97:LEU:CD2	1:M:712:PRO:HB3	1.81	1.08
1:M:538:GLU:HA	4:Z:349:LEU:CD1	1.55	1.08
1:M:639:GLY:HA2	4:Z:345:ILE:HA	1.26	1.08
1:S:643:GLY:O	1:S:644:SER:OG	1.70	1.08
1:S:649:VAL:HG22	1:S:649:VAL:HG13	1.21	1.08
1:S:770:GLY:O	1:S:774:LEU:CB	1.99	1.08
1:S:817:GLN:HG2	2:T:127:ARG:HD2	1.10	1.08
1:A:538:GLU:CD	4:8:355:MET:HE1	1.78	1.08
1:D:800:ARG:NH2	3:F:40:ASN:HD21	1.51	1.08
1:D:836:PHE:HZ	2:E:160:GLY:N	1.23	1.08
2:H:121:LEU:C	2:H:128:PHE:HB3	1.72	1.08
1:J:638:GLY:CA	4:W:341:ILE:O	2.01	1.08
1:M:202:SER:CA	1:M:207:LYS:HE2	1.82	1.08
1:S:639:GLY:HA3	4:2:344:SER:C	1.78	1.08
1:A:202:SER:CA	1:A:207:LYS:HE2	1.82	1.08
1:A:505:MLY:HG3	1:A:741:LYS:NZ	1.67	1.08
1:D:641:LYS:HE3	1:D:647:GLN:OE1	1.50	1.08
1:D:747:LEU:HD13	1:D:782:MLY:HH21	1.22	1.08
1:G:538:GLU:CD	4:V:355:MET:HE1	1.77	1.08
1:G:800:ARG:NH2	3:I:40:ASN:OD1	1.87	1.08
1:J:28:GLN:O	1:J:723:ARG:NH2	1.86	1.08
1:J:557:GLU:CB	4:Y:46:GLY:C	2.26	1.08
1:M:529:PRO:C	4:Z:354:GLN:HB3	1.77	1.08
1:M:553:MLY:HB3	4:2:46:GLY:CA	1.51	1.08
1:M:836:PHE:CE2	2:N:160:GLY:N	2.18	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:SER:OG	2:N:148:VAL:O	1.71	1.08
1:S:529:PRO:C	4:2:354:GLN:HB3	1.77	1.08
1:S:770:GLY:C	1:S:771:LEU:O	1.96	1.08
1:S:817:GLN:CB	2:T:127:ARG:HH11	1.65	1.08
1:A:538:GLU:O	4:8:349:LEU:HD11	1.35	1.08
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.08
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	1.08
1:J:28:GLN:HA	1:J:723:ARG:NH2	1.17	1.08
1:M:529:PRO:HB3	4:Z:353:GLN:OE1	1.53	1.08
1:S:529:PRO:HB3	4:2:353:GLN:OE1	1.53	1.08
1:S:792:ALA:CB	3:U:42:THR:CA	2.32	1.08
1:S:836:PHE:CE2	2:T:160:GLY:HA3	1.88	1.08
4:4:324:THR:OG1	4:6:244:ASP:HA	1.44	1.08
1:D:820:VAL:HG11	2:E:136:MET:HE1	1.26	1.08
2:E:123:THR:HA	3:F:19:ARG:HH22	1.18	1.08
1:J:639:GLY:HA3	4:W:344:SER:C	1.78	1.08
1:M:409:GLY:N	1:M:636:LYS:HG3	1.69	1.08
1:M:643:GLY:O	1:M:644:SER:OG	1.70	1.08
1:S:638:GLY:CA	4:2:341:ILE:O	2.01	1.08
1:S:839:MLY:HH13	2:T:159:HIS:HD2	1.17	1.08
4:1:287:ILE:HB	4:3:203:THR:HG22	1.16	1.08
1:A:736:GLN:HA	1:A:743:ALA:HB3	1.35	1.07
1:A:831:TRP:CH2	2:B:50:THR:HB	1.89	1.07
2:B:111:SER:CB	2:B:148:VAL:O	0.78	1.07
1:D:791:GLN:NE2	3:F:115:GLY:CA	1.84	1.07
2:E:111:SER:OG	2:E:148:VAL:O	1.71	1.07
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	1.07
1:G:829:TRP:CZ3	2:H:87:LYS:NZ	2.21	1.07
2:H:111:SER:CB	2:H:148:VAL:O	0.78	1.07
1:J:734:GLU:O	1:J:738:MET:HG2	1.51	1.07
1:J:820:VAL:HG11	2:K:136:MET:CE	1.84	1.07
1:M:641:LYS:HD2	1:M:647:GLN:NE2	1.59	1.07
1:S:202:SER:CA	1:S:207:LYS:HE2	1.82	1.07
1:S:795:ARG:HB3	3:U:35:ARG:HH22	0.95	1.07
4:1:287:ILE:HD13	4:3:203:THR:HB	1.08	1.07
1:A:93:MET:CE	1:A:715:VAL:HA	1.84	1.07
1:A:541:MET:SD	4:8:345:ILE:O	2.12	1.07
1:D:409:GLY:N	1:D:636:LYS:HG3	1.70	1.07
1:D:795:ARG:HB3	3:F:35:ARG:CZ	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ALA:HB2	3:I:42:THR:CA	1.84	1.07
1:M:638:GLY:CA	4:Z:341:ILE:O	2.01	1.07
1:M:649:VAL:HG22	1:M:649:VAL:HG13	1.21	1.07
1:M:736:GLN:HA	1:M:743:ALA:HB3	1.35	1.07
1:M:806:MET:C	1:M:807:VAL:N	2.12	1.07
1:S:72:VAL:HG13	1:S:76:GLN:HB3	1.36	1.07
2:T:111:SER:CB	2:T:148:VAL:O	0.78	1.07
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.80	1.07
4:6:3:ASP:HA	4:6:6:THR:HB	1.36	1.07
1:A:409:GLY:N	1:A:636:LYS:HG3	1.69	1.07
1:A:641:LYS:HG3	1:A:647:GLN:HG3	1.21	1.07
1:A:817:GLN:OE1	2:B:127:ARG:NE	1.87	1.07
1:D:541:MET:SD	4:9:345:ILE:O	2.12	1.07
1:D:813:ILE:HG21	2:E:128:PHE:HE1	1.02	1.07
1:G:538:GLU:HA	4:V:349:LEU:CD1	1.55	1.07
1:G:638:GLY:CA	4:V:341:ILE:O	2.02	1.07
1:G:641:LYS:HB2	1:G:647:GLN:NE2	1.68	1.07
1:M:541:MET:SD	4:Z:345:ILE:O	2.13	1.07
1:M:721:LYS:HG3	1:M:736:GLN:HG2	1.25	1.07
2:N:121:LEU:C	2:N:128:PHE:HB3	1.72	1.07
1:S:571:ALA:O	1:S:572:LYS:HG3	1.52	1.07
1:S:817:GLN:CD	2:T:127:ARG:HD2	1.78	1.07
4:2:3:ASP:HA	4:2:6:THR:HB	1.36	1.07
4:X:3:ASP:HA	4:X:6:THR:HB	1.36	1.07
1:A:639:GLY:HA3	4:8:344:SER:C	1.78	1.07
1:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	1.07
1:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.07
1:D:639:GLY:HA3	4:9:344:SER:C	1.78	1.07
1:D:836:PHE:CZ	2:E:159:HIS:C	2.32	1.07
1:G:752:ASP:OD1	1:G:780:ASP:O	1.71	1.07
1:G:796:GLY:HA2	3:I:35:ARG:HD3	1.08	1.07
1:G:838:ILE:CD1	2:H:54:MET:CE	2.29	1.07
1:J:541:MET:SD	4:W:345:ILE:O	2.13	1.07
2:K:111:SER:CB	2:K:148:VAL:O	0.78	1.07
1:M:783:LEU:CB	1:M:786:ILE:CD1	2.32	1.07
1:S:148:ARG:NH2	1:S:764:MLY:CH2	2.16	1.07
1:S:641:LYS:HE3	1:S:647:GLN:CD	1.77	1.07
1:S:792:ALA:HB3	3:U:42:THR:HG22	1.14	1.07
2:T:111:SER:HB3	2:T:148:VAL:O	1.50	1.07
4:1:246:GLN:C	4:Y:324:THR:HG21	1.70	1.07
4:2:290:ARG:HH21	4:4:202:THR:HG21	1.16	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:324:THR:OG1	4:5:244:ASP:HA	1.45	1.07
1:A:149:GLN:CD	1:A:716:LEU:HD23	1.77	1.07
1:D:724:TYR:CB	1:D:782:MLY:CD	2.31	1.07
1:G:541:MET:SD	4:V:345:ILE:O	2.13	1.07
1:G:643:GLY:O	1:G:644:SER:OG	1.70	1.07
1:M:792:ALA:HB2	3:O:42:THR:HG22	1.36	1.07
2:N:111:SER:CB	2:N:148:VAL:O	0.78	1.07
1:S:201:ALA:O	1:S:202:SER:CB	1.92	1.07
2:T:111:SER:OG	2:T:148:VAL:O	1.72	1.07
1:A:638:GLY:CA	4:8:341:ILE:O	2.01	1.06
1:D:529:PRO:C	4:9:354:GLN:HB3	1.78	1.06
1:D:643:GLY:O	1:D:644:SER:OG	1.70	1.06
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	1.06
1:G:795:ARG:NH2	3:I:116:GLU:HG2	1.68	1.06
1:J:529:PRO:HB3	4:W:353:GLN:OE1	1.53	1.06
2:K:114:LYS:HA	2:K:146:GLY:O	0.89	1.06
1:S:541:MET:SD	4:2:345:ILE:O	2.13	1.06
1:S:736:GLN:HA	1:S:743:ALA:HB3	1.35	1.06
1:S:786:ILE:C	1:S:787:ILE:N	2.14	1.06
1:S:795:ARG:CG	3:U:118:MET:CE	1.96	1.06
1:S:798:LEU:HD21	3:U:126:LEU:HD12	1.36	1.06
1:S:834:LEU:CD1	2:T:51:PHE:CE1	2.31	1.06
4:4:3:ASP:HA	4:4:6:THR:HB	1.36	1.06
4:W:324:THR:HG21	4:Y:246:GLN:C	1.70	1.06
1:A:529:PRO:HB3	4:8:353:GLN:OE1	1.53	1.06
1:A:641:LYS:HB2	1:A:647:GLN:NE2	1.68	1.06
1:D:736:GLN:HA	1:D:743:ALA:HB3	1.35	1.06
1:G:529:PRO:HB3	4:V:353:GLN:OE1	1.53	1.06
2:K:111:SER:OG	2:K:148:VAL:O	1.71	1.06
1:M:641:LYS:HD2	1:M:647:GLN:CD	1.70	1.06
1:M:791:GLN:NE2	3:O:114:LEU:O	1.88	1.06
2:N:111:SER:HB3	2:N:148:VAL:O	1.50	1.06
1:D:542:PHE:CG	4:9:143:TYR:HE1	1.73	1.06
1:G:508:ILE:HD11	1:G:759:ALA:HB2	1.14	1.06
1:G:635:GLY:HA3	4:V:341:ILE:HD13	1.37	1.06
1:S:641:LYS:HE3	1:S:647:GLN:OE1	1.50	1.06
1:A:791:GLN:OE1	3:C:116:GLU:HG3	1.54	1.06
1:A:797:PHE:CZ	3:C:146:ILE:CD1	2.37	1.06
1:A:817:GLN:HE21	2:B:127:ARG:CG	1.57	1.06
1:D:72:VAL:HG13	1:D:76:GLN:HB3	1.36	1.06
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:123:THR:HA	3:F:19:ARG:NH2	1.71	1.06
1:G:792:ALA:HB3	3:I:42:THR:HG22	1.36	1.06
1:G:821:ARG:NH2	2:H:127:ARG:CG	2.19	1.06
1:G:831:TRP:CZ2	2:H:47:LEU:CD2	2.39	1.06
1:J:529:PRO:C	4:W:354:GLN:HB3	1.77	1.06
1:J:795:ARG:CZ	3:L:116:GLU:CD	2.27	1.06
1:M:534:SER:C	4:Z:351:THR:HA	1.81	1.06
4:Z:3:ASP:HA	4:Z:6:THR:HB	1.36	1.06
1:A:93:MET:HG2	1:A:715:VAL:HG22	1.37	1.06
2:B:54:MET:CA	2:H:21:GLU:OE1	2.04	1.06
2:B:114:LYS:HA	2:B:146:GLY:O	0.89	1.06
1:D:793:ARG:HH21	3:F:147:MET:CE	1.68	1.06
1:G:97:LEU:CD2	1:G:712:PRO:HB3	1.85	1.06
1:G:821:ARG:HH22	2:H:127:ARG:CG	1.68	1.06
2:H:111:SER:OG	2:H:148:VAL:O	1.71	1.06
1:J:84:MLY:CE	1:J:724:TYR:HE2	1.69	1.06
1:J:552:ASN:O	4:Y:47:MET:CE	2.04	1.06
1:M:84:MLY:HH11	1:M:715:VAL:CG1	1.83	1.06
1:M:542:PHE:CG	4:Z:143:TYR:HE1	1.73	1.06
1:S:409:GLY:N	1:S:636:LYS:HG3	1.69	1.06
4:2:290:ARG:NH2	4:4:202:THR:CG2	2.15	1.06
4:X:287:ILE:HG12	4:Z:201:VAL:N	1.69	1.06
4:X:324:THR:CG2	4:Z:247:VAL:HG22	1.82	1.06
1:A:542:PHE:CG	4:8:143:TYR:HE1	1.73	1.05
1:A:635:GLY:HA3	4:8:341:ILE:HD13	1.37	1.05
1:A:641:LYS:HE3	4:8:348:SER:O	1.56	1.05
1:A:817:GLN:CG	2:B:127:ARG:HD3	1.86	1.05
1:J:553:MLY:HE2	4:Y:45:VAL:HB	1.09	1.05
1:S:530:MET:HE2	4:2:354:GLN:HG2	1.06	1.05
1:A:799:MET:SD	3:C:32:ASP:CA	2.44	1.05
1:D:767:PHE:O	1:D:771:LEU:CD1	2.03	1.05
1:G:542:PHE:CG	4:V:143:TYR:HE1	1.74	1.05
1:G:736:GLN:HA	1:G:743:ALA:HB3	1.35	1.05
1:G:795:ARG:HE	3:I:116:GLU:CB	1.68	1.05
1:J:537:GLU:C	4:W:349:LEU:CD1	2.20	1.05
1:J:798:LEU:HD12	3:L:126:LEU:HD11	1.28	1.05
2:K:140:PHE:O	2:K:141:PRO:O	1.75	1.05
1:M:576:GLU:HG2	1:M:577:ALA:N	1.66	1.05
1:S:506:GLU:OE2	1:S:760:PHE:HD1	1.10	1.05
1:S:534:SER:C	4:2:351:THR:HA	1.81	1.05
1:S:783:LEU:O	1:S:786:ILE:HG13	1.54	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:114:LYS:HA	2:T:146:GLY:O	0.89	1.05
4:3:324:THR:CG2	4:5:244:ASP:HA	1.86	1.05
2:B:111:SER:OG	2:B:148:VAL:O	1.71	1.05
1:D:732:ILE:HD13	1:D:782:MLY:HH21	1.37	1.05
1:D:747:LEU:HD11	1:D:782:MLY:HH21	1.15	1.05
2:E:140:PHE:O	2:E:141:PRO:O	1.74	1.05
1:G:409:GLY:N	1:G:636:LYS:HG3	1.70	1.05
1:J:834:LEU:CD1	2:K:51:PHE:HE1	1.68	1.05
1:M:819:ASN:CG	2:N:92:ASP:CB	2.28	1.05
1:S:746:LYS:NZ	3:U:96:LYS:HA	1.70	1.05
1:A:72:VAL:HG13	1:A:76:GLN:HB3	1.36	1.05
1:D:530:MET:CA	4:9:354:GLN:HG3	1.87	1.05
1:D:641:LYS:HB2	1:D:647:GLN:NE2	1.68	1.05
2:E:163:ALA:HA	2:K:21:GLU:HB3	1.39	1.05
1:G:553:MLY:HH13	4:X:45:VAL:HG11	1.37	1.05
1:G:753:VAL:CA	1:G:780:ASP:OD1	2.03	1.05
1:J:409:GLY:N	1:J:636:LYS:HG3	1.69	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:795:ARG:NH2	3:L:116:GLU:CD	2.14	1.05
1:J:817:GLN:HG2	2:K:127:ARG:CG	1.86	1.05
1:M:97:LEU:HD22	1:M:712:PRO:HB3	1.35	1.05
1:M:795:ARG:CZ	3:O:116:GLU:HB3	1.85	1.05
4:4:322:PRO:HB3	4:6:244:ASP:CG	1.80	1.05
1:A:795:ARG:CB	3:C:35:ARG:CZ	2.32	1.05
1:D:530:MET:HE2	4:9:354:GLN:HG2	1.06	1.05
1:D:638:GLY:HA2	4:9:341:ILE:O	1.57	1.05
1:D:713:SER:HB2	1:D:775:LEU:HD22	1.35	1.05
1:J:553:MLY:HH13	4:Y:45:VAL:HG11	1.37	1.05
1:J:641:LYS:HE3	4:W:348:SER:O	1.55	1.05
1:M:530:MET:CA	4:Z:354:GLN:HG3	1.87	1.05
1:M:635:GLY:HA3	4:Z:341:ILE:HD13	1.36	1.05
2:N:114:LYS:HA	2:N:146:GLY:O	0.89	1.05
1:S:93:MET:HE2	1:S:764:MLY:HB3	1.39	1.05
1:S:542:PHE:CG	4:2:143:TYR:HE1	1.73	1.05
4:4:324:THR:CG2	4:6:244:ASP:HA	1.86	1.05
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.04
2:H:114:LYS:HA	2:H:146:GLY:O	0.89	1.04
1:J:795:ARG:NH2	3:L:116:GLU:OE1	1.90	1.04
1:M:638:GLY:HA2	4:Z:341:ILE:O	1.57	1.04
1:S:635:GLY:HA3	4:2:341:ILE:HD13	1.37	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:97:LEU:CD2	1:A:712:PRO:HB3	1.86	1.04
1:A:576:GLU:HG2	1:A:577:ALA:N	1.66	1.04
1:A:599:ASN:HA	1:A:649:VAL:HB	1.06	1.04
1:A:709:LYS:O	1:A:710:GLY:HA3	1.56	1.04
1:A:831:TRP:CH2	2:B:34:ILE:HG23	1.91	1.04
1:D:508:ILE:HD13	1:D:766:PHE:CE1	1.87	1.04
1:D:641:LYS:HE3	4:9:348:SER:O	1.56	1.04
2:E:144:VAL:HG11	2:E:153:ILE:HG12	1.38	1.04
3:F:49:ILE:HA	3:F:52:ASN:HD22	1.23	1.04
3:I:49:ILE:CA	3:I:52:ASN:HD22	1.71	1.04
2:K:121:LEU:HG	2:K:128:PHE:CA	1.60	1.04
1:M:834:LEU:HD13	2:N:51:PHE:HE1	1.22	1.04
1:S:795:ARG:NH1	3:U:43:ASN:OD1	1.87	1.04
1:S:829:TRP:CZ2	2:T:87:LYS:HE2	1.91	1.04
1:A:202:SER:CA	1:A:207:LYS:CE	2.36	1.04
1:A:498:LEU:CD2	1:A:764:MLY:HH22	1.88	1.04
1:A:534:SER:C	4:8:351:THR:HA	1.81	1.04
1:D:726:VAL:CG1	1:D:785:GLU:CB	2.33	1.04
1:D:727:LEU:CB	1:D:782:MLY:HE2	1.74	1.04
1:G:552:ASN:O	4:X:47:MET:CE	2.05	1.04
1:G:553:MLY:CE	4:X:45:VAL:HG11	1.53	1.04
1:J:72:VAL:HG13	1:J:76:GLN:HB3	1.36	1.04
1:J:542:PHE:CG	4:W:143:TYR:HE1	1.73	1.04
1:J:736:GLN:HA	1:J:743:ALA:HB3	1.35	1.04
1:M:35:MLY:HE2	1:M:777:GLU:CD	1.82	1.04
1:M:530:MET:HE2	4:Z:354:GLN:HG2	1.06	1.04
2:N:140:PHE:O	2:N:141:PRO:O	1.75	1.04
1:S:638:GLY:HA2	4:2:341:ILE:O	1.57	1.04
2:T:140:PHE:O	2:T:141:PRO:O	1.75	1.04
1:A:93:MET:HE2	1:A:715:VAL:HA	1.05	1.04
1:A:638:GLY:HA2	4:8:341:ILE:O	1.56	1.04
1:A:797:PHE:CE2	3:C:126:LEU:HD22	1.92	1.04
1:D:635:GLY:HA3	4:9:341:ILE:HD13	1.37	1.04
1:G:530:MET:HE2	4:V:354:GLN:HG2	1.06	1.04
1:G:530:MET:CA	4:V:354:GLN:HG3	1.88	1.04
1:G:534:SER:C	4:V:351:THR:HA	1.82	1.04
1:G:599:ASN:HA	1:G:649:VAL:HB	1.05	1.04
1:G:832:MET:SD	2:H:84:PHE:HE2	1.81	1.04
1:J:641:LYS:HB2	1:J:647:GLN:NE2	1.68	1.04
2:K:149:ASP:OD2	2:K:150:TYR:N	1.91	1.04
1:M:641:LYS:HB2	1:M:647:GLN:NE2	1.68	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:829:TRP:CH2	2:N:87:LYS:HE2	1.92	1.04
1:S:530:MET:CA	4:2:354:GLN:HG3	1.86	1.04
1:S:793:ARG:CZ	3:U:40:ASN:ND2	2.12	1.04
1:S:817:GLN:HB3	2:T:127:ARG:HH11	0.88	1.04
4:1:322:PRO:HB3	4:3:244:ASP:CB	1.88	1.04
4:3:324:THR:CG2	4:5:244:ASP:CA	2.36	1.04
1:A:530:MET:CA	4:8:354:GLN:HG3	1.86	1.04
1:A:736:GLN:N	1:A:743:ALA:CB	2.05	1.04
1:D:534:SER:C	4:9:351:THR:HA	1.81	1.04
1:D:827:MLY:HH21	2:E:139:ALA:HB3	1.37	1.04
1:G:202:SER:CA	1:G:207:LYS:CE	2.36	1.04
1:G:638:GLY:HA2	4:V:341:ILE:O	1.58	1.04
1:G:754:ASP:HB2	1:G:776:GLU:HA	1.37	1.04
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.23	1.04
1:J:534:SER:C	4:W:351:THR:HA	1.81	1.04
1:J:635:GLY:HA3	4:W:341:ILE:HD13	1.36	1.04
1:J:819:ASN:OD1	2:K:92:ASP:N	1.90	1.04
3:L:49:ILE:CA	3:L:52:ASN:HD22	1.71	1.04
1:M:829:TRP:CH2	2:N:87:LYS:NZ	2.24	1.04
1:S:576:GLU:HG2	1:S:577:ALA:N	1.66	1.04
4:8:290:ARG:CZ	4:V:202:THR:CG2	2.36	1.04
1:A:795:ARG:CZ	3:C:43:ASN:OD1	1.98	1.03
1:A:831:TRP:HZ3	2:B:50:THR:HG21	1.18	1.03
1:G:641:LYS:HE3	4:V:348:SER:O	1.56	1.03
1:J:798:LEU:CD1	3:L:126:LEU:CD1	1.99	1.03
1:J:817:GLN:HG2	2:K:127:ARG:HB2	1.07	1.03
1:S:641:LYS:HE3	4:2:348:SER:O	1.55	1.03
2:T:121:LEU:HG	2:T:128:PHE:CA	1.60	1.03
4:W:3:ASP:HA	4:W:6:THR:HB	1.36	1.03
1:D:732:ILE:CD1	1:D:782:MLY:CH1	2.36	1.03
1:D:798:LEU:CD1	3:F:126:LEU:CD1	1.82	1.03
2:H:140:PHE:O	2:H:141:PRO:O	1.75	1.03
1:J:56:GLU:HB2	1:J:59:MLY:HB3	1.40	1.03
1:J:505:MLY:CD	1:J:762:HIS:CE1	2.41	1.03
1:M:84:MLY:HH11	1:M:715:VAL:HG11	1.35	1.03
2:N:117:LEU:CB	2:N:147:ASN:CG	2.32	1.03
3:O:49:ILE:CA	3:O:52:ASN:HD22	1.71	1.03
2:T:149:ASP:OD2	2:T:150:TYR:N	1.91	1.03
1:A:797:PHE:HE2	3:C:126:LEU:CD2	1.72	1.03
1:D:767:PHE:C	1:D:771:LEU:HD11	1.62	1.03
1:D:798:LEU:HD13	3:F:126:LEU:HD11	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:121:LEU:HG	2:E:128:PHE:CA	1.59	1.03
1:G:576:GLU:HG2	1:G:577:ALA:N	1.66	1.03
2:H:150:TYR:O	2:H:151:LYS:CB	2.06	1.03
1:M:639:GLY:N	4:Z:345:ILE:N	1.94	1.03
2:B:112:ILE:O	2:B:147:ASN:C	2.01	1.03
2:B:117:LEU:CB	2:B:147:ASN:CG	2.32	1.03
1:G:795:ARG:NH2	3:I:116:GLU:CB	2.21	1.03
1:J:202:SER:CA	1:J:207:LYS:CE	2.36	1.03
1:J:641:LYS:HG3	1:J:647:GLN:HG3	1.20	1.03
1:M:72:VAL:HG13	1:M:76:GLN:HB3	1.36	1.03
1:S:84:MLY:HH11	1:S:724:TYR:CE2	1.94	1.03
1:S:641:LYS:CG	4:2:348:SER:HB2	1.87	1.03
1:S:836:PHE:CE1	2:T:159:HIS:CA	2.42	1.03
4:9:3:ASP:HA	4:9:6:THR:HB	1.36	1.03
4:X:287:ILE:C	4:Z:205:GLU:CD	2.27	1.03
1:A:56:GLU:HB2	1:A:59:MLY:HB3	1.40	1.03
1:A:149:GLN:HB2	1:A:718:ALA:CB	1.89	1.03
2:B:140:PHE:O	2:B:141:PRO:O	1.74	1.03
1:D:202:SER:CA	1:D:207:LYS:CE	2.36	1.03
1:G:206:LYS:HD2	1:G:217:THR:HG23	1.41	1.03
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.42	1.03
1:M:84:MLY:HH21	1:M:719:ASP:C	1.84	1.03
1:M:553:MLY:HG2	4:2:44:MET:O	1.59	1.03
1:M:642:LYS:HG3	4:Z:23:GLY:H	0.86	1.03
2:N:112:ILE:O	2:N:147:ASN:C	2.02	1.03
3:O:24:LYS:HG2	3:O:63:ILE:O	1.59	1.03
1:S:839:MLY:HH13	2:T:159:HIS:CD2	1.94	1.03
4:3:3:ASP:HA	4:3:6:THR:HB	1.36	1.03
4:4:287:ILE:CG1	4:6:202:THR:HB	1.89	1.03
4:4:324:THR:CG2	4:6:244:ASP:CA	2.36	1.03
4:7:290:ARG:CZ	4:9:202:THR:CG2	2.36	1.03
4:9:290:ARG:CZ	4:W:202:THR:CG2	2.36	1.03
1:A:530:MET:HE2	4:8:354:GLN:HG2	1.06	1.02
2:B:111:SER:HB3	2:B:148:VAL:O	1.49	1.02
3:C:49:ILE:CA	3:C:52:ASN:HD22	1.71	1.02
1:D:599:ASN:HA	1:D:649:VAL:HB	1.05	1.02
3:F:24:LYS:HG2	3:F:63:ILE:O	1.59	1.02
1:G:56:GLU:HB2	1:G:59:MLY:HB3	1.40	1.02
1:G:95:THR:HA	1:G:713:SER:HB3	1.38	1.02
1:S:791:GLN:NE2	3:U:115:GLY:HA3	1.72	1.02
2:T:144:VAL:HG11	2:T:153:ILE:HG12	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:202:THR:CG2	4:Z:290:ARG:CZ	2.36	1.02
4:3:287:ILE:CG1	4:5:202:THR:HB	1.89	1.02
1:A:599:ASN:CA	1:A:649:VAL:HB	1.89	1.02
2:B:149:ASP:OD2	2:B:150:TYR:N	1.91	1.02
1:D:642:LYS:HG3	4:9:23:GLY:H	0.86	1.02
2:E:149:ASP:OD2	2:E:150:TYR:N	1.91	1.02
1:G:819:ASN:HA	2:H:90:GLY:O	0.84	1.02
2:H:112:ILE:O	2:H:147:ASN:C	2.01	1.02
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	1.02
1:J:798:LEU:HD11	3:L:126:LEU:HD12	1.38	1.02
1:S:549:SER:CA	4:4:43:VAL:HG11	1.89	1.02
1:S:641:LYS:HB2	1:S:647:GLN:NE2	1.68	1.02
1:S:751:GLY:HA2	3:U:86:ASP:OD1	1.60	1.02
3:U:49:ILE:CA	3:U:52:ASN:HD22	1.71	1.02
4:1:3:ASP:HA	4:1:6:THR:HB	1.36	1.02
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	1.02
1:A:501:GLU:O	1:A:762:HIS:CD2	2.12	1.02
1:A:501:GLU:O	1:A:762:HIS:NE2	1.92	1.02
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	1.02
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	1.02
1:G:599:ASN:CA	1:G:649:VAL:HB	1.89	1.02
1:G:757:GLN:HG2	1:G:776:GLU:HG2	1.33	1.02
1:J:530:MET:HE2	4:W:354:GLN:HG2	1.06	1.02
1:J:642:LYS:HG3	4:W:23:GLY:H	0.86	1.02
1:J:813:ILE:HG23	2:K:128:PHE:CE1	1.93	1.02
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	1.02
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	1.02
1:M:56:GLU:HB2	1:M:59:MLY:HB3	1.40	1.02
1:M:599:ASN:HA	1:M:649:VAL:HB	1.05	1.02
1:M:599:ASN:CA	1:M:649:VAL:HB	1.89	1.02
1:M:793:ARG:HH11	3:O:40:ASN:ND2	1.58	1.02
1:M:795:ARG:CD	3:O:118:MET:HE1	1.90	1.02
2:N:150:TYR:C	2:N:151:LYS:HG3	1.83	1.02
1:S:508:ILE:CD1	1:S:759:ALA:HB2	1.90	1.02
1:S:642:LYS:HG3	4:2:23:GLY:H	0.86	1.02
1:S:819:ASN:CG	2:T:92:ASP:CB	2.32	1.02
4:1:287:ILE:CG1	4:3:202:THR:CA	2.36	1.02
4:X:324:THR:HG22	4:Z:247:VAL:HG23	1.38	1.02
1:A:502:GLU:C	1:A:761:GLY:HA3	1.84	1.02
2:B:121:LEU:HG	2:B:128:PHE:CA	1.59	1.02
2:B:144:VAL:HG11	2:B:153:ILE:HG12	1.38	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:150:TYR:C	2:B:151:LYS:HG3	1.83	1.02
1:G:642:LYS:HG3	4:V:23:GLY:H	0.85	1.02
1:G:831:TRP:CH2	2:H:47:LEU:HD22	1.89	1.02
1:M:641:LYS:HE3	4:Z:348:SER:O	1.55	1.02
1:M:736:GLN:N	1:M:743:ALA:CB	2.05	1.02
1:M:817:GLN:HB3	2:N:127:ARG:CD	1.89	1.02
1:M:819:ASN:ND2	2:N:92:ASP:HB2	1.75	1.02
1:M:838:ILE:HD11	2:N:54:MET:HE3	1.02	1.02
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.02
1:A:149:GLN:HB2	1:A:718:ALA:HB3	1.37	1.02
1:A:553:MLY:HB3	4:V:46:GLY:CA	1.51	1.02
1:A:576:GLU:HG2	1:A:577:ALA:H	0.85	1.02
1:A:642:LYS:HG3	4:8:23:GLY:H	0.87	1.02
3:C:24:LYS:CG	3:C:63:ILE:O	2.08	1.02
1:D:793:ARG:HH21	3:F:147:MET:HE3	1.04	1.02
2:E:112:ILE:O	2:E:147:ASN:C	2.01	1.02
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	1.02
3:F:24:LYS:CG	3:F:63:ILE:O	2.08	1.02
3:F:49:ILE:CA	3:F:52:ASN:HD22	1.71	1.02
1:G:84:MLY:HH21	1:G:719:ASP:O	1.56	1.02
1:G:529:PRO:C	4:V:354:GLN:HB3	1.79	1.02
1:G:541:MET:HB3	4:V:143:TYR:OH	1.60	1.02
1:G:576:GLU:HG2	1:G:577:ALA:H	0.85	1.02
1:J:541:MET:HB3	4:W:143:TYR:OH	1.60	1.02
2:K:144:VAL:HG11	2:K:153:ILE:HG12	1.38	1.02
1:S:541:MET:HB3	4:2:143:TYR:OH	1.59	1.02
1:S:707:CYS:O	1:S:714:ARG:NH2	1.92	1.02
1:S:791:GLN:NE2	3:U:114:LEU:O	1.93	1.02
2:T:112:ILE:O	2:T:147:ASN:C	2.01	1.02
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.02
1:A:206:LYS:CD	1:A:217:THR:CG2	2.16	1.01
1:A:639:GLY:N	4:8:345:ILE:N	1.94	1.01
1:A:817:GLN:HG3	2:B:127:ARG:HD3	1.35	1.01
1:D:98:HIS:HB3	1:D:100:PRO:HD2	1.42	1.01
1:D:838:ILE:CD1	2:E:54:MET:SD	2.47	1.01
1:G:796:GLY:HA2	3:I:35:ARG:CD	1.89	1.01
1:G:836:PHE:CE1	2:H:159:HIS:HA	1.93	1.01
1:M:202:SER:CA	1:M:207:LYS:CE	2.36	1.01
1:M:206:LYS:HD2	1:M:217:THR:HG23	1.41	1.01
1:M:753:VAL:CG1	1:M:775:LEU:HD11	1.90	1.01
2:N:149:ASP:OD2	2:N:150:TYR:N	1.91	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:599:ASN:CA	1:S:649:VAL:HB	1.89	1.01
1:S:639:GLY:N	4:2:345:ILE:N	1.94	1.01
4:7:3:ASP:HA	4:7:6:THR:HB	1.36	1.01
4:8:3:ASP:HA	4:8:6:THR:HB	1.36	1.01
1:A:553:MLY:HG2	4:V:44:MET:O	1.59	1.01
1:A:557:GLU:N	4:V:48:GLY:CA	2.12	1.01
2:B:150:TYR:O	2:B:151:LYS:CB	2.07	1.01
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	1.01
1:G:639:GLY:N	4:V:345:ILE:N	1.94	1.01
1:G:792:ALA:CB	3:I:42:THR:CG2	2.17	1.01
1:J:599:ASN:HA	1:J:649:VAL:HB	1.05	1.01
1:J:599:ASN:CA	1:J:649:VAL:HB	1.89	1.01
1:J:736:GLN:N	1:J:743:ALA:CB	2.05	1.01
2:K:112:ILE:O	2:K:147:ASN:C	2.02	1.01
1:M:646:PHE:HE2	1:M:652:LEU:HD21	1.24	1.01
1:S:98:HIS:HB3	1:S:100:PRO:HD2	1.42	1.01
3:U:24:LYS:CG	3:U:63:ILE:O	2.08	1.01
4:Y:3:ASP:HA	4:Y:6:THR:HB	1.36	1.01
1:A:541:MET:HB3	4:8:143:TYR:OH	1.60	1.01
1:A:641:LYS:HE3	1:A:647:GLN:HB2	1.42	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CH2	1.95	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CZ3	1.95	1.01
1:A:797:PHE:CD1	3:C:146:ILE:O	2.14	1.01
1:D:56:GLU:HB2	1:D:59:MLY:HB3	1.40	1.01
1:D:641:LYS:HE3	1:D:647:GLN:HB2	1.42	1.01
1:D:813:ILE:HG23	2:E:128:PHE:CE1	1.83	1.01
1:G:791:GLN:OE1	3:I:116:GLU:HG3	1.60	1.01
2:H:149:ASP:OD2	2:H:150:TYR:N	1.91	1.01
3:I:24:LYS:HG2	3:I:63:ILE:O	1.60	1.01
1:J:834:LEU:CD1	2:K:51:PHE:CE1	2.44	1.01
1:M:642:LYS:HD3	4:Z:340:TRP:CH2	1.96	1.01
3:O:48:LYS:O	3:O:52:ASN:ND2	1.94	1.01
1:S:599:ASN:HA	1:S:649:VAL:HB	1.05	1.01
1:S:707:CYS:C	1:S:714:ARG:NH2	2.17	1.01
3:U:49:ILE:HA	3:U:52:ASN:HD22	1.23	1.01
1:A:149:GLN:HB3	1:A:719:ASP:N	1.76	1.01
1:A:206:LYS:HD2	1:A:217:THR:HG23	1.41	1.01
1:A:797:PHE:HD1	3:C:146:ILE:O	1.42	1.01
1:D:791:GLN:OE1	3:F:116:GLU:HG3	1.60	1.01
2:H:117:LEU:CB	2:H:147:ASN:CG	2.32	1.01
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:817:GLN:HB3	2:K:127:ARG:HD3	1.36	1.01
1:M:720:PHE:CD1	1:M:772:LEU:HD21	1.96	1.01
1:S:839:MLY:HH21	2:T:158:THR:HG22	1.42	1.01
3:U:24:LYS:HG2	3:U:63:ILE:O	1.59	1.01
4:2:204:ALA:H	4:Z:287:ILE:HB	1.25	1.01
4:4:287:ILE:CG1	4:6:202:THR:CB	2.33	1.01
1:A:149:GLN:CD	1:A:718:ALA:HB3	1.84	1.01
1:A:757:GLN:OE1	1:A:771:LEU:HD12	1.49	1.01
3:C:49:ILE:HA	3:C:52:ASN:HD22	1.23	1.01
2:E:163:ALA:CA	2:K:21:GLU:HB3	1.91	1.01
1:G:98:HIS:HB3	1:G:100:PRO:HD2	1.42	1.01
1:G:642:LYS:HD3	4:V:340:TRP:CH2	1.96	1.01
1:G:730:SER:OG	3:I:113:THR:CG2	2.09	1.01
3:I:24:LYS:CG	3:I:63:ILE:O	2.08	1.01
1:J:642:LYS:HD3	4:W:340:TRP:CH2	1.95	1.01
3:L:48:LYS:O	3:L:52:ASN:ND2	1.94	1.01
1:M:642:LYS:HD3	4:Z:340:TRP:CZ3	1.96	1.01
1:M:783:LEU:CG	1:M:786:ILE:HD12	1.91	1.01
1:M:795:ARG:CD	3:O:43:ASN:OD1	2.07	1.01
1:M:797:PHE:HD1	3:O:149:VAL:CG1	1.74	1.01
1:S:56:GLU:HB2	1:S:59:MLY:HB3	1.40	1.01
1:S:537:GLU:C	4:2:349:LEU:CD1	2.20	1.01
1:S:752:ASP:N	3:U:86:ASP:OD1	1.94	1.01
2:T:117:LEU:CB	2:T:147:ASN:CG	2.32	1.01
4:1:287:ILE:HB	4:3:203:THR:CG2	1.90	1.01
1:A:641:LYS:HE3	1:A:647:GLN:CB	1.91	1.00
3:C:48:LYS:O	3:C:52:ASN:ND2	1.94	1.00
1:D:537:GLU:C	4:9:349:LEU:CD1	2.20	1.00
1:D:713:SER:OG	1:D:771:LEU:CG	2.08	1.00
1:D:836:PHE:HE1	2:E:159:HIS:HB2	1.21	1.00
1:G:641:LYS:HE3	1:G:647:GLN:CB	1.91	1.00
1:G:728:ASN:CG	3:I:114:LEU:HD23	1.73	1.00
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.22	1.00
1:J:84:MLY:CH2	1:J:719:ASP:C	2.34	1.00
1:J:710:GLY:C	1:J:772:LEU:CD2	2.35	1.00
1:J:757:GLN:HA	1:J:776:GLU:CG	1.91	1.00
1:M:541:MET:HB3	4:Z:143:TYR:OH	1.59	1.00
2:N:121:LEU:HG	2:N:128:PHE:CA	1.60	1.00
1:S:92:ALA:HB3	1:S:764:MLY:HH12	1.43	1.00
1:S:770:GLY:C	1:S:771:LEU:CA	2.33	1.00
1:S:797:PHE:CZ	3:U:146:ILE:HA	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.00
1:A:505:MLY:CG	1:A:762:HIS:CD2	2.44	1.00
3:C:24:LYS:HG2	3:C:63:ILE:O	1.59	1.00
1:D:508:ILE:HD11	1:D:766:PHE:HZ	1.26	1.00
1:D:599:ASN:CA	1:D:649:VAL:HB	1.89	1.00
1:G:641:LYS:HE3	1:G:647:GLN:HB2	1.42	1.00
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.00
1:M:641:LYS:HE3	1:M:647:GLN:HB2	1.43	1.00
2:N:150:TYR:O	2:N:151:LYS:CB	2.07	1.00
1:S:576:GLU:HG2	1:S:577:ALA:H	0.85	1.00
1:S:735:GLY:C	1:S:743:ALA:CA	2.35	1.00
4:2:202:THR:CG2	4:Z:290:ARG:NH2	2.24	1.00
1:A:646:PHE:HE2	1:A:652:LEU:HD21	1.24	1.00
1:A:735:GLY:C	1:A:743:ALA:CA	2.34	1.00
1:A:817:GLN:CD	2:B:127:ARG:HG2	1.85	1.00
1:D:218:LEU:CA	1:D:221:GLN:HG3	1.90	1.00
1:D:642:LYS:HD3	4:9:340:TRP:CH2	1.96	1.00
1:D:642:LYS:HD3	4:9:340:TRP:CZ3	1.96	1.00
1:D:827:MLY:HH21	2:E:139:ALA:CB	1.90	1.00
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	1.00
1:G:84:MLY:HD3	1:G:723:ARG:HD2	1.40	1.00
1:G:838:ILE:HD11	2:H:54:MET:HE3	1.28	1.00
1:J:735:GLY:C	1:J:743:ALA:CA	2.34	1.00
1:J:792:ALA:N	3:L:42:THR:HG22	1.75	1.00
3:L:24:LYS:HG2	3:L:63:ILE:O	1.59	1.00
1:M:818:TYR:CE1	2:N:127:ARG:CZ	2.45	1.00
1:S:215:GLN:CA	1:S:340:ILE:HG23	1.92	1.00
1:S:642:LYS:HD3	4:2:340:TRP:CZ3	1.96	1.00
2:T:150:TYR:O	2:T:151:LYS:CB	2.07	1.00
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.23	1.00
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.87	1.00
1:G:503:TYR:OH	1:G:711:PHE:HD2	1.43	1.00
1:G:769:ALA:CB	1:G:770:GLY:CA	2.29	1.00
1:J:641:LYS:HE3	1:J:647:GLN:HB2	1.42	1.00
1:M:534:SER:O	4:Z:351:THR:HA	1.60	1.00
1:M:537:GLU:C	4:Z:349:LEU:CD1	2.20	1.00
2:N:144:VAL:HG11	2:N:153:ILE:HG12	1.38	1.00
1:S:641:LYS:HE3	1:S:647:GLN:HB2	1.42	1.00
1:A:218:LEU:CA	1:A:221:GLN:HG3	1.91	1.00
1:A:576:GLU:CG	1:A:577:ALA:H	1.75	1.00
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:215:GLN:CA	1:G:340:ILE:HG23	1.92	1.00
1:G:508:ILE:HD11	1:G:759:ALA:CB	1.92	1.00
1:G:755:HIS:ND1	1:G:779:ARG:NH1	2.10	1.00
2:H:144:VAL:HG11	2:H:153:ILE:HG12	1.38	1.00
1:J:94:MET:O	1:J:713:SER:CB	2.09	1.00
1:J:646:PHE:HE2	1:J:652:LEU:HD21	1.24	1.00
1:S:202:SER:CA	1:S:207:LYS:CE	2.36	1.00
1:S:642:LYS:HD3	4:2:340:TRP:CH2	1.96	1.00
1:S:721:LYS:CA	1:S:736:GLN:CD	2.34	1.00
4:9:286:ASP:OD1	4:W:203:THR:HG22	1.62	1.00
1:A:502:GLU:CB	1:A:761:GLY:HA3	1.91	1.00
1:G:97:LEU:HD23	1:G:712:PRO:HB3	1.43	1.00
2:N:144:VAL:HG13	2:N:153:ILE:HG12	1.14	1.00
1:S:534:SER:O	4:2:351:THR:HA	1.59	1.00
1:S:804:ARG:CA	1:S:807:VAL:HB	1.91	1.00
4:2:203:THR:HG22	4:Z:286:ASP:OD1	1.62	1.00
4:7:287:ILE:HB	4:9:204:ALA:H	1.26	1.00
4:8:286:ASP:OD1	4:V:203:THR:HG22	1.62	1.00
4:8:287:ILE:HB	4:V:204:ALA:H	1.25	1.00
4:9:290:ARG:NH2	4:W:202:THR:CG2	2.23	1.00
4:X:291:LYS:CE	4:Z:243:PRO:C	2.34	1.00
1:G:754:ASP:CB	1:G:779:ARG:HD2	1.91	1.00
1:J:98:HIS:HB3	1:J:100:PRO:HD2	1.42	1.00
1:J:819:ASN:CA	2:K:90:GLY:O	2.09	1.00
2:T:150:TYR:C	2:T:151:LYS:HG3	1.83	1.00
1:A:215:GLN:CA	1:A:340:ILE:HG23	1.92	0.99
2:B:139:ALA:O	2:B:141:PRO:HD3	1.62	0.99
1:D:553:MLY:HG2	4:W:44:MET:O	1.59	0.99
1:D:641:LYS:HE3	1:D:647:GLN:CB	1.91	0.99
2:E:150:TYR:O	2:E:151:LYS:CB	2.07	0.99
1:J:174:SER:HB3	1:J:667:THR:HG21	1.44	0.99
1:J:639:GLY:CA	4:W:345:ILE:CA	2.40	0.99
2:K:144:VAL:HG13	2:K:153:ILE:HD11	1.21	0.99
1:M:641:LYS:HE3	1:M:647:GLN:CB	1.91	0.99
2:N:149:ASP:OD2	2:N:150:TYR:O	1.80	0.99
4:7:286:ASP:OD1	4:9:203:THR:HG22	1.62	0.99
1:A:95:THR:OG1	1:A:769:ALA:C	2.03	0.99
1:D:713:SER:OG	1:D:771:LEU:HG	1.61	0.99
1:G:218:LEU:CA	1:G:221:GLN:HG3	1.91	0.99
1:G:735:GLY:C	1:G:743:ALA:CA	2.34	0.99
1:G:831:TRP:CZ2	2:H:47:LEU:HD21	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
1:J:791:GLN:CD	3:L:116:GLU:HG3	1.87	0.99
1:S:576:GLU:CG	1:S:577:ALA:H	1.75	0.99
1:S:641:LYS:HE3	1:S:647:GLN:CB	1.91	0.99
1:S:646:PHE:HE2	1:S:652:LEU:HD21	1.24	0.99
1:S:831:TRP:HH2	2:T:47:LEU:HD21	1.27	0.99
4:3:288:ASP:N	4:5:203:THR:HG22	1.77	0.99
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.99
1:D:639:GLY:CA	4:9:345:ILE:CA	2.41	0.99
1:D:646:PHE:HE2	1:D:652:LEU:HD21	1.24	0.99
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	0.99
1:G:728:ASN:ND2	3:I:114:LEU:CD2	2.21	0.99
1:J:552:ASN:O	4:Y:47:MET:HE1	1.60	0.99
1:M:215:GLN:CA	1:M:340:ILE:HG23	1.92	0.99
1:S:120:GLY:HA2	1:S:764:MLY:CH1	1.93	0.99
1:S:786:ILE:C	1:S:789:ALA:H	1.69	0.99
4:X:287:ILE:CG1	4:Z:201:VAL:HG23	1.91	0.99
1:A:649:VAL:CG1	1:A:649:VAL:HG22	1.92	0.99
1:D:174:SER:HB3	1:D:667:THR:HG21	1.44	0.99
1:D:831:TRP:CE2	2:E:51:PHE:CZ	2.49	0.99
1:G:757:GLN:HG3	1:G:776:GLU:HG3	1.40	0.99
1:M:218:LEU:CA	1:M:221:GLN:HG3	1.91	0.99
1:M:576:GLU:CG	1:M:577:ALA:H	1.75	0.99
1:M:612:GLN:HE22	1:M:627:GLY:CA	1.75	0.99
1:M:639:GLY:CA	4:Z:345:ILE:CA	2.40	0.99
1:M:829:TRP:CH2	2:N:87:LYS:CE	2.44	0.99
2:N:141:PRO:HB2	2:N:142:PRO:HD2	1.44	0.99
4:X:291:LYS:HE2	4:Z:243:PRO:C	1.85	0.99
1:G:576:GLU:CG	1:G:577:ALA:H	1.75	0.99
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	0.99
1:J:721:LYS:CA	1:J:736:GLN:CD	2.34	0.99
3:O:24:LYS:CG	3:O:63:ILE:O	2.08	0.99
1:S:797:PHE:CZ	3:U:146:ILE:HD13	1.96	0.99
4:2:287:ILE:HB	4:4:203:THR:HG22	1.24	0.99
4:9:287:ILE:HB	4:W:204:ALA:H	1.25	0.99
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	0.99
1:D:795:ARG:HB3	3:F:35:ARG:HH12	1.20	0.99
1:G:754:ASP:HA	1:G:779:ARG:HD3	1.42	0.99
1:J:757:GLN:NE2	1:J:777:GLU:N	1.95	0.99
1:M:649:VAL:CG1	1:M:649:VAL:HG22	1.92	0.99
1:M:817:GLN:CG	2:N:127:ARG:CD	2.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:804:ARG:HA	1:S:807:VAL:HB	1.44	0.99
4:3:322:PRO:CB	4:5:244:ASP:CB	2.40	0.99
1:D:735:GLY:C	1:D:743:ALA:CA	2.35	0.99
1:G:754:ASP:HA	1:G:779:ARG:HD2	1.01	0.99
1:J:576:GLU:HG2	1:J:577:ALA:H	0.85	0.99
1:J:612:GLN:HE22	1:J:627:GLY:CA	1.76	0.99
1:M:735:GLY:C	1:M:743:ALA:CA	2.35	0.99
4:W:324:THR:CG2	4:Y:247:VAL:N	2.24	0.99
1:A:97:LEU:CD2	1:A:712:PRO:CB	2.40	0.99
1:A:836:PHE:CZ	2:B:160:GLY:N	2.31	0.99
1:G:552:ASN:O	4:X:47:MET:HE1	1.61	0.99
2:H:121:LEU:HG	2:H:128:PHE:CA	1.60	0.99
1:M:576:GLU:HG2	1:M:577:ALA:H	0.85	0.99
3:O:49:ILE:HA	3:O:52:ASN:HD22	1.23	0.99
1:S:639:GLY:CA	4:2:345:ILE:CA	2.40	0.99
3:U:48:LYS:O	3:U:52:ASN:ND2	1.94	0.99
4:1:247:VAL:N	4:Y:324:THR:CG2	2.24	0.99
4:V:324:THR:CG2	4:X:247:VAL:N	2.24	0.99
2:B:149:ASP:OD2	2:B:150:TYR:O	1.80	0.99
1:G:503:TYR:CE1	1:G:711:PHE:CE2	2.51	0.99
1:G:612:GLN:HE22	1:G:627:GLY:CA	1.75	0.99
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	0.99
1:M:721:LYS:CA	1:M:736:GLN:CD	2.34	0.99
1:A:839:MLY:HH11	2:B:159:HIS:HD2	1.23	0.99
1:G:642:LYS:HD3	4:V:340:TRP:CZ3	1.96	0.99
2:K:121:LEU:CB	2:K:128:PHE:HB3	1.69	0.99
2:K:139:ALA:O	2:K:141:PRO:HD3	1.62	0.99
1:M:84:MLY:CH1	1:M:715:VAL:CG1	2.41	0.99
1:M:817:GLN:CD	2:N:127:ARG:HD2	1.87	0.99
1:S:508:ILE:HD11	1:S:759:ALA:HB2	1.01	0.99
1:G:646:PHE:HE2	1:G:652:LEU:HD21	1.24	0.98
1:G:784:ALA:O	1:G:788:THR:N	1.96	0.98
1:J:768:MLY:HH11	1:J:772:LEU:CD1	1.78	0.98
1:M:95:THR:HA	1:M:713:SER:HB3	1.34	0.98
2:N:130:PRO:O	2:N:133:ILE:N	1.96	0.98
1:S:218:LEU:CA	1:S:221:GLN:HG3	1.91	0.98
4:2:244:ASP:OD2	4:Z:322:PRO:HB3	1.62	0.98
1:G:649:VAL:CG1	1:G:649:VAL:HG22	1.92	0.98
2:H:149:ASP:OD2	2:H:150:TYR:O	1.80	0.98
4:4:322:PRO:CB	4:6:244:ASP:CB	2.40	0.98
1:A:98:HIS:HB3	1:A:100:PRO:HD2	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:795:ARG:NH2	3:C:116:GLU:OE2	1.81	0.98
1:D:649:VAL:CG1	1:D:649:VAL:HG22	1.92	0.98
1:G:752:ASP:O	1:G:780:ASP:OD1	1.80	0.98
3:I:48:LYS:O	3:I:52:ASN:ND2	1.94	0.98
2:K:150:TYR:O	2:K:151:LYS:CB	2.06	0.98
1:S:786:ILE:CB	1:S:787:ILE:N	2.26	0.98
1:D:206:LYS:HD2	1:D:217:THR:HG23	1.41	0.98
1:D:215:GLN:CA	1:D:340:ILE:HG23	1.92	0.98
1:D:823:PHE:CE1	2:E:160:GLY:HA2	1.97	0.98
1:M:831:TRP:CH2	2:N:47:LEU:HD21	1.94	0.98
1:G:728:ASN:OD1	3:I:114:LEU:CG	2.10	0.98
2:N:139:ALA:O	2:N:141:PRO:HD3	1.62	0.98
1:S:206:LYS:HD2	1:S:217:THR:HG23	1.41	0.98
1:S:546:THR:HB	4:4:47:MET:O	1.62	0.98
1:A:612:GLN:HE22	1:A:627:GLY:CA	1.75	0.98
3:L:49:ILE:HA	3:L:52:ASN:HD22	1.23	0.98
1:S:612:GLN:HE22	1:S:627:GLY:CA	1.76	0.98
2:B:141:PRO:HB2	2:B:142:PRO:HD2	1.44	0.98
1:J:215:GLN:CA	1:J:340:ILE:HG23	1.92	0.98
1:J:649:VAL:CG1	1:J:649:VAL:HG22	1.92	0.98
1:J:829:TRP:CH2	2:K:87:LYS:NZ	2.30	0.98
1:M:98:HIS:HB3	1:M:100:PRO:HD2	1.42	0.98
1:M:791:GLN:OE1	3:O:116:GLU:N	1.95	0.98
1:S:792:ALA:HB2	3:U:42:THR:HG22	1.19	0.98
2:T:117:LEU:HD13	2:T:147:ASN:OD1	1.64	0.98
2:T:144:VAL:HG13	2:T:153:ILE:HD11	1.21	0.98
4:1:287:ILE:CB	4:3:203:THR:N	2.06	0.98
1:J:206:LYS:HD2	1:J:217:THR:HG23	1.41	0.98
1:J:769:ALA:CB	1:J:770:GLY:HA2	1.93	0.98
3:L:46:ILE:O	3:L:50:LEU:HG	1.64	0.98
1:M:786:ILE:O	1:M:790:THR:N	1.96	0.98
1:M:793:ARG:NH1	3:O:40:ASN:ND2	2.12	0.98
4:9:322:PRO:HB3	4:W:244:ASP:OD2	1.62	0.98
2:B:130:PRO:O	2:B:133:ILE:N	1.96	0.98
2:E:149:ASP:OD2	2:E:150:TYR:O	1.80	0.98
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.46	0.98
2:T:139:ALA:O	2:T:141:PRO:HD3	1.62	0.98
4:1:203:THR:HG22	4:Y:286:ASP:CG	1.87	0.98
1:D:553:MLY:CB	4:W:46:GLY:CA	2.32	0.98
2:E:117:LEU:HD13	2:E:147:ASN:OD1	1.64	0.98
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.47	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:32:PHE:O	1:M:780:ASP:OD2	1.82	0.98
1:S:508:ILE:HD11	1:S:759:ALA:CB	1.93	0.98
1:S:817:GLN:HB3	2:T:127:ARG:CD	1.93	0.98
4:4:288:ASP:N	4:6:203:THR:HG22	1.77	0.98
1:A:505:MLY:CB	1:A:762:HIS:N	2.26	0.97
1:D:508:ILE:CG1	1:D:766:PHE:CE1	2.46	0.97
2:E:130:PRO:O	2:E:133:ILE:N	1.97	0.97
3:F:52:ASN:HB2	3:F:53:PRO:HD3	1.46	0.97
1:G:757:GLN:HG2	1:G:776:GLU:CD	1.88	0.97
1:J:576:GLU:CG	1:J:577:ALA:H	1.75	0.97
2:K:130:PRO:O	2:K:133:ILE:N	1.96	0.97
1:M:795:ARG:HG2	3:O:118:MET:HE1	1.03	0.97
1:M:799:MET:SD	3:O:32:ASP:CG	2.47	0.97
1:S:649:VAL:CG1	1:S:649:VAL:HG22	1.92	0.97
3:U:46:ILE:O	3:U:50:LEU:HG	1.64	0.97
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.97
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.97
1:M:817:GLN:HG2	2:N:127:ARG:HB2	1.45	0.97
1:D:612:GLN:HE22	1:D:627:GLY:CA	1.76	0.97
1:D:649:VAL:CG2	1:D:649:VAL:CA	2.42	0.97
1:G:831:TRP:HE1	2:H:67:MET:CB	1.77	0.97
1:J:553:MLY:HH12	4:Y:45:VAL:HG21	1.46	0.97
1:J:642:LYS:HD2	4:W:24:ASP:O	1.65	0.97
2:K:149:ASP:OD2	2:K:150:TYR:O	1.80	0.97
1:S:174:SER:HB3	1:S:667:THR:HG21	1.44	0.97
4:7:322:PRO:HB3	4:9:244:ASP:OD2	1.62	0.97
4:X:324:THR:HG22	4:Z:247:VAL:HG22	1.00	0.97
1:A:534:SER:O	4:8:351:THR:HA	1.60	0.97
1:A:549:SER:C	4:V:46:GLY:HA3	1.89	0.97
1:D:530:MET:CE	4:9:354:GLN:CG	2.40	0.97
1:D:732:ILE:HD13	1:D:782:MLY:CH2	1.92	0.97
1:J:530:MET:CE	4:W:354:GLN:CG	2.41	0.97
1:S:805:ALA:HA	1:S:808:GLU:HB2	1.44	0.97
2:T:121:LEU:CB	2:T:128:PHE:HB3	1.69	0.97
2:T:149:ASP:OD2	2:T:150:TYR:O	1.80	0.97
4:1:244:ASP:CG	4:Y:325:MET:CE	2.37	0.97
1:A:800:ARG:HH22	3:C:40:ASN:HD21	1.10	0.97
2:E:139:ALA:O	2:E:141:PRO:HD3	1.62	0.97
1:G:792:ALA:CB	3:I:42:THR:HA	1.94	0.97
2:H:130:PRO:O	2:H:133:ILE:N	1.97	0.97
1:J:642:LYS:HG2	4:W:21:PHE:O	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:542:PHE:CG	4:Z:143:TYR:CE1	2.53	0.97
1:S:804:ARG:C	1:S:807:VAL:HB	1.88	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
1:D:549:SER:C	4:W:46:GLY:HA3	1.90	0.97
2:E:141:PRO:HB2	2:E:142:PRO:HD2	1.44	0.97
1:J:95:THR:HA	1:J:713:SER:HB3	1.11	0.97
2:K:117:LEU:HD13	2:K:147:ASN:OD1	1.64	0.97
1:M:174:SER:HB3	1:M:667:THR:HG21	1.44	0.97
1:A:707:CYS:CA	1:A:714:ARG:CZ	2.39	0.97
1:A:800:ARG:CD	3:C:149:VAL:C	2.37	0.97
1:D:726:VAL:O	1:D:785:GLU:HG2	1.64	0.97
1:G:537:GLU:C	4:V:349:LEU:CD1	2.21	0.97
1:M:831:TRP:CH2	2:N:47:LEU:HD22	1.97	0.97
1:S:791:GLN:CD	3:U:116:GLU:N	2.17	0.97
2:T:141:PRO:HB2	2:T:142:PRO:HD2	1.44	0.97
4:1:244:ASP:OD2	4:Y:325:MET:HE2	1.65	0.97
1:A:174:SER:HB3	1:A:667:THR:HG21	1.44	0.97
1:A:502:GLU:OE1	1:A:763:THR:N	1.97	0.97
1:D:736:GLN:CA	1:D:743:ALA:HB2	1.95	0.97
1:D:799:MET:SD	3:F:32:ASP:CA	2.51	0.97
1:D:836:PHE:HE1	2:E:159:HIS:CB	1.78	0.97
1:G:649:VAL:CG2	1:G:649:VAL:CA	2.43	0.97
2:H:117:LEU:HD13	2:H:147:ASN:OD1	1.64	0.97
1:J:649:VAL:CG2	1:J:649:VAL:CA	2.43	0.97
1:M:530:MET:CE	4:Z:354:GLN:CG	2.40	0.97
1:M:826:VAL:HG21	2:N:88:LEU:CD2	1.95	0.97
1:S:542:PHE:CG	4:2:143:TYR:CE1	2.53	0.97
1:S:649:VAL:CG2	1:S:649:VAL:CA	2.43	0.97
2:T:130:PRO:O	2:T:133:ILE:N	1.96	0.97
1:A:538:GLU:N	4:8:349:LEU:CD1	2.28	0.97
1:D:576:GLU:CG	1:D:577:ALA:H	1.75	0.97
1:D:747:LEU:HD21	1:D:782:MLY:HH11	1.45	0.97
1:D:838:ILE:HD12	2:E:54:MET:SD	2.04	0.97
1:G:218:LEU:CA	1:G:221:GLN:CG	2.42	0.97
1:A:649:VAL:CG2	1:A:649:VAL:CA	2.43	0.97
1:D:818:TYR:HB2	2:E:90:GLY:HA3	1.41	0.97
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.46	0.97
2:H:139:ALA:O	2:H:141:PRO:HD3	1.62	0.97
1:J:831:TRP:HH2	2:K:47:LEU:HD21	1.24	0.97
1:M:805:ALA:O	1:M:809:ARG:HB2	1.63	0.97
3:O:46:ILE:O	3:O:50:LEU:HG	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:CG2	4:3:204:ALA:H	1.78	0.97
4:V:325:MET:CE	4:X:244:ASP:CG	2.37	0.97
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	0.96
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	0.96
1:D:576:GLU:HG2	1:D:577:ALA:H	0.85	0.96
1:D:642:LYS:HG2	4:9:21:PHE:O	1.65	0.96
1:G:534:SER:O	4:V:351:THR:HA	1.60	0.96
2:H:121:LEU:HG	2:H:128:PHE:HA	1.47	0.96
3:I:46:ILE:O	3:I:50:LEU:HG	1.64	0.96
1:J:84:MLY:HD3	1:J:724:TYR:CZ	2.00	0.96
1:J:792:ALA:CB	3:L:42:THR:HG23	1.70	0.96
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.46	0.96
1:S:93:MET:CE	1:S:764:MLY:CB	2.27	0.96
1:S:218:LEU:CA	1:S:221:GLN:CG	2.42	0.96
1:S:753:VAL:HG22	1:S:779:ARG:NH2	1.79	0.96
1:S:838:ILE:HD11	2:T:54:MET:SD	2.04	0.96
4:8:322:PRO:HB3	4:V:244:ASP:OD2	1.62	0.96
1:A:498:LEU:HD23	1:A:764:MLY:HH22	1.44	0.96
1:A:642:LYS:HD2	4:8:24:ASP:O	1.64	0.96
2:H:141:PRO:HB2	2:H:142:PRO:HD2	1.44	0.96
2:K:141:PRO:HB2	2:K:142:PRO:HD2	1.44	0.96
1:S:637:LYS:NZ	4:2:141:SER:O	1.98	0.96
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:J:542:PHE:CG	4:W:143:TYR:CE1	2.53	0.96
2:K:121:LEU:HG	2:K:128:PHE:HA	1.47	0.96
1:M:218:LEU:CA	1:M:221:GLN:CG	2.42	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	1.91	0.96
1:S:795:ARG:HH21	3:U:116:GLU:CA	1.78	0.96
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.64	0.96
1:A:798:LEU:CD1	3:C:126:LEU:HD11	1.94	0.96
1:D:649:VAL:CG1	1:D:649:VAL:C	2.38	0.96
1:G:642:LYS:HD2	4:V:24:ASP:O	1.65	0.96
1:J:84:MLY:HH12	1:J:715:VAL:HG11	1.44	0.96
1:J:649:VAL:CG1	1:J:649:VAL:C	2.38	0.96
1:M:213:LYS:HA	1:M:220:ASP:CG	1.90	0.96
1:M:783:LEU:CB	1:M:786:ILE:HD12	1.96	0.96
1:S:215:GLN:H	1:S:340:ILE:CG1	1.72	0.96
1:A:830:PRO:HG2	2:B:67:MET:HE1	1.47	0.96
2:B:144:VAL:HG13	2:B:153:ILE:HD11	1.22	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:150:TYR:O	2:B:151:LYS:HG3	1.65	0.96
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.96
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.96
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	0.96
1:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.96
1:M:649:VAL:CG2	1:M:649:VAL:CA	2.43	0.96
1:M:796:GLY:HA2	3:O:35:ARG:HD3	1.45	0.96
1:M:817:GLN:HB3	2:N:127:ARG:HD2	1.45	0.96
1:S:213:LYS:HA	1:S:220:ASP:CG	1.90	0.96
1:S:727:LEU:HD21	1:S:783:LEU:HB2	1.44	0.96
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.96
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.44	0.96
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.96
1:D:218:LEU:CA	1:D:221:GLN:CG	2.42	0.96
1:D:642:LYS:HD2	4:9:24:ASP:O	1.64	0.96
1:G:174:SER:HB3	1:G:667:THR:HG21	1.44	0.96
1:M:637:LYS:NZ	4:Z:141:SER:O	1.98	0.96
1:G:93:MET:HA	1:G:714:ARG:H	1.29	0.96
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	0.96
2:H:121:LEU:CB	2:H:128:PHE:HB3	1.69	0.96
1:J:829:TRP:CH2	2:K:87:LYS:CE	2.49	0.96
1:M:642:LYS:HG2	4:Z:21:PHE:O	1.65	0.96
1:S:735:GLY:C	1:S:743:ALA:HA	1.90	0.96
1:A:735:GLY:C	1:A:743:ALA:HA	1.91	0.96
2:B:121:LEU:HG	2:B:128:PHE:HA	1.46	0.96
1:D:542:PHE:CG	4:9:143:TYR:CE1	2.52	0.96
1:D:798:LEU:CG	3:F:126:LEU:HD11	1.96	0.96
1:G:542:PHE:CG	4:V:143:TYR:CE1	2.53	0.96
1:S:292:MET:HE1	1:S:309:PRO:HA	1.48	0.96
1:S:549:SER:HB2	4:4:43:VAL:HG21	1.44	0.96
4:4:287:ILE:HD13	4:6:203:THR:CB	1.91	0.96
1:A:537:GLU:C	4:8:349:LEU:CD1	2.20	0.96
3:C:46:ILE:O	3:C:50:LEU:HG	1.64	0.96
1:D:538:GLU:N	4:9:349:LEU:CD1	2.28	0.96
1:D:543:PRO:CG	4:9:143:TYR:O	2.14	0.96
1:S:502:GLU:OE1	1:S:761:GLY:HA3	1.65	0.96
1:S:797:PHE:CZ	3:U:146:ILE:CD1	2.48	0.96
3:U:52:ASN:HB2	3:U:53:PRO:HD3	1.46	0.96
1:A:530:MET:CE	4:8:354:GLN:CG	2.41	0.96
1:A:635:GLY:HA3	4:8:334:GLU:HG2	1.47	0.96
1:D:292:MET:HE1	1:D:309:PRO:HA	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:ILE:HD13	1:D:766:PHE:CZ	2.00	0.96
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	0.96
1:M:649:VAL:CG1	1:M:649:VAL:C	2.38	0.96
1:S:635:GLY:HA3	4:2:334:GLU:HG2	1.47	0.96
1:A:502:GLU:CA	1:A:761:GLY:CA	2.44	0.95
1:A:637:LYS:NZ	4:8:141:SER:O	1.99	0.95
1:A:798:LEU:HD11	3:C:126:LEU:CG	1.95	0.95
3:F:46:ILE:O	3:F:50:LEU:HG	1.65	0.95
1:G:92:ALA:O	1:G:714:ARG:HG2	1.65	0.95
1:G:538:GLU:N	4:V:349:LEU:CD1	2.29	0.95
1:J:710:GLY:HA2	1:J:772:LEU:HD21	1.46	0.95
1:J:735:GLY:C	1:J:743:ALA:HA	1.90	0.95
1:M:543:PRO:CG	4:Z:143:TYR:O	2.14	0.95
2:N:121:LEU:HG	2:N:128:PHE:HA	1.47	0.95
1:S:543:PRO:CG	4:2:143:TYR:O	2.14	0.95
1:S:630:ALA:O	4:2:25:ASP:CG	2.09	0.95
1:S:795:ARG:HH11	3:U:43:ASN:CB	1.62	0.95
1:A:534:SER:O	4:8:351:THR:HG23	1.13	0.95
1:D:727:LEU:HB2	1:D:782:MLY:NZ	1.81	0.95
1:G:637:LYS:NZ	4:V:141:SER:O	1.99	0.95
1:G:649:VAL:CG1	1:G:649:VAL:CG2	2.44	0.95
1:J:817:GLN:HG2	2:K:127:ARG:CD	1.89	0.95
1:S:795:ARG:HH12	3:U:43:ASN:CB	1.64	0.95
2:T:150:TYR:O	2:T:151:LYS:HG3	1.65	0.95
1:A:795:ARG:NH2	3:C:116:GLU:CG	2.29	0.95
3:C:52:ASN:HB2	3:C:53:PRO:HD3	1.45	0.95
1:G:838:ILE:HD11	2:H:54:MET:HE1	1.48	0.95
2:H:117:LEU:HD12	2:H:147:ASN:HB3	1.41	0.95
1:M:549:SER:C	4:2:46:GLY:HA3	1.90	0.95
1:S:120:GLY:HA2	1:S:764:MLY:HH13	1.45	0.95
1:S:649:VAL:CG1	1:S:649:VAL:C	2.38	0.95
1:S:649:VAL:CG1	1:S:649:VAL:CG2	2.44	0.95
1:S:797:PHE:CE2	3:U:146:ILE:CD1	2.48	0.95
1:A:502:GLU:CD	1:A:764:MLY:O	2.09	0.95
1:A:754:ASP:OD2	1:A:778:MET:CE	2.14	0.95
1:D:800:ARG:HH22	3:F:40:ASN:ND2	1.64	0.95
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.95
1:M:35:MLY:HE2	1:M:777:GLU:CG	1.97	0.95
1:M:84:MLY:CH1	1:M:715:VAL:HG13	1.96	0.95
1:M:538:GLU:HG3	4:Z:352:PHE:N	1.81	0.95
1:S:530:MET:CE	4:2:354:GLN:CG	2.40	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:HD13	4:3:203:THR:CB	1.96	0.95
4:2:112:PRO:CG	4:3:196:ARG:C	2.40	0.95
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	0.95
1:A:502:GLU:HG3	1:A:761:GLY:HA3	1.33	0.95
1:A:791:GLN:CD	3:C:116:GLU:H	1.74	0.95
1:D:637:LYS:NZ	4:9:141:SER:O	1.99	0.95
1:D:732:ILE:HG21	1:D:782:MLY:HH21	0.97	0.95
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.95
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	0.95
1:M:642:LYS:HD2	4:Z:24:ASP:O	1.64	0.95
1:S:92:ALA:C	1:S:714:ARG:HG3	1.91	0.95
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.64	0.95
1:A:795:ARG:CG	3:C:118:MET:HE1	1.97	0.95
1:A:831:TRP:HZ2	2:B:47:LEU:HA	1.22	0.95
1:D:712:PRO:HG2	1:D:771:LEU:HB2	0.97	0.95
1:D:712:PRO:HD2	1:D:771:LEU:HD13	1.46	0.95
1:D:797:PHE:CE1	3:F:146:ILE:HG23	2.02	0.95
1:G:530:MET:CE	4:V:354:GLN:CG	2.39	0.95
1:J:756:THR:HG23	1:J:779:ARG:CD	1.96	0.95
1:M:795:ARG:HB3	3:O:35:ARG:HH22	1.13	0.95
2:N:150:TYR:O	2:N:151:LYS:HG3	1.65	0.95
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	0.95
2:B:149:ASP:CG	2:B:150:TYR:H	1.73	0.95
2:E:121:LEU:HG	2:E:128:PHE:HA	1.47	0.95
1:J:543:PRO:CG	4:W:143:TYR:O	2.14	0.95
1:J:635:GLY:HA3	4:W:334:GLU:HG2	1.47	0.95
1:S:538:GLU:HG3	4:2:352:PHE:N	1.82	0.95
1:S:727:LEU:CD2	1:S:783:LEU:CB	2.14	0.95
1:S:804:ARG:O	1:S:808:GLU:N	2.00	0.95
2:B:121:LEU:CB	2:B:128:PHE:HB3	1.69	0.95
1:D:635:GLY:HA3	4:9:334:GLU:HG2	1.47	0.95
2:E:150:TYR:O	2:E:151:LYS:HG3	1.65	0.95
1:J:292:MET:HE1	1:J:309:PRO:HA	1.47	0.95
1:M:292:MET:HE1	1:M:309:PRO:HA	1.47	0.95
1:M:538:GLU:N	4:Z:349:LEU:CD1	2.28	0.95
1:M:649:VAL:CG1	1:M:649:VAL:CG2	2.43	0.95
1:S:709:LYS:C	1:S:710:GLY:HA3	1.92	0.95
1:S:791:GLN:HE22	3:U:115:GLY:HA3	1.21	0.95
1:S:817:GLN:CB	2:T:127:ARG:CD	2.41	0.95
1:A:502:GLU:HA	1:A:762:HIS:N	1.82	0.95
1:G:543:PRO:CG	4:V:143:TYR:O	2.15	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:637:LYS:NZ	4:W:141:SER:O	1.99	0.95
1:M:546:THR:HG22	1:M:548:THR:H	1.32	0.95
1:M:630:ALA:O	4:Z:25:ASP:CG	2.09	0.95
1:S:93:MET:HE2	1:S:764:MLY:HB2	1.11	0.95
1:A:530:MET:CA	4:8:354:GLN:CG	2.44	0.95
1:A:541:MET:N	4:8:349:LEU:HD21	1.80	0.95
1:A:543:PRO:CG	4:8:143:TYR:O	2.14	0.95
1:A:791:GLN:NE2	3:C:116:GLU:N	2.10	0.95
1:G:635:GLY:HA3	4:V:334:GLU:HG2	1.47	0.95
2:K:150:TYR:O	2:K:151:LYS:HG3	1.65	0.95
1:M:206:LYS:CD	1:M:217:THR:CG2	2.16	0.95
1:S:534:SER:O	4:2:351:THR:HG23	1.13	0.95
1:S:538:GLU:N	4:2:349:LEU:CD1	2.28	0.95
1:S:642:LYS:HD2	4:2:24:ASP:O	1.65	0.95
1:S:803:TYR:O	1:S:807:VAL:N	2.00	0.95
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.94
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.94
1:S:786:ILE:HB	1:S:787:ILE:N	1.82	0.94
1:A:410:ASN:OD1	4:8:334:GLU:C	2.11	0.94
1:A:502:GLU:CG	1:A:764:MLY:O	2.14	0.94
1:D:553:MLY:HB3	4:W:46:GLY:HA2	1.47	0.94
1:D:823:PHE:CE1	2:E:156:VAL:HG12	2.02	0.94
1:G:553:MLY:HH12	4:X:45:VAL:HG21	1.46	0.94
1:G:752:ASP:CG	1:G:780:ASP:O	2.08	0.94
1:G:795:ARG:HE	3:I:116:GLU:HB3	0.85	0.94
1:J:538:GLU:HG3	4:W:352:PHE:N	1.81	0.94
1:J:649:VAL:CG1	1:J:649:VAL:CG2	2.43	0.94
1:S:410:ASN:OD1	4:2:334:GLU:C	2.10	0.94
1:S:642:LYS:HG2	4:2:21:PHE:O	1.65	0.94
4:3:322:PRO:HB2	4:5:244:ASP:HB3	1.49	0.94
4:8:288:ASP:HA	4:V:204:ALA:HB2	1.48	0.94
2:B:117:LEU:HD13	2:B:147:ASN:OD1	1.64	0.94
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.94
1:J:710:GLY:N	1:J:772:LEU:HD22	1.81	0.94
1:M:819:ASN:OD1	2:N:92:ASP:HB2	1.67	0.94
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	0.94
2:E:163:ALA:O	2:K:22:THR:N	1.99	0.94
1:G:642:LYS:CG	4:V:23:GLY:H	1.76	0.94
1:G:831:TRP:NE1	2:H:67:MET:HB3	1.81	0.94
1:J:541:MET:N	4:W:349:LEU:HD21	1.80	0.94
1:J:792:ALA:HB2	3:L:42:THR:CB	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:52:ASN:HB2	3:O:53:PRO:HD3	1.45	0.94
1:S:530:MET:HA	4:2:354:GLN:HG3	0.96	0.94
1:S:541:MET:N	4:2:349:LEU:HD21	1.80	0.94
2:T:150:TYR:O	2:T:151:LYS:CG	2.16	0.94
1:D:538:GLU:HG3	4:9:352:PHE:N	1.82	0.94
1:D:747:LEU:HD11	1:D:782:MLY:HH22	1.49	0.94
2:E:162:ASP:O	2:K:21:GLU:CB	2.15	0.94
1:J:630:ALA:O	4:W:25:ASP:CG	2.09	0.94
1:A:505:MLY:HB3	1:A:762:HIS:N	1.80	0.94
1:A:546:THR:HG22	1:A:548:THR:H	1.32	0.94
1:D:534:SER:O	4:9:351:THR:HA	1.59	0.94
1:G:530:MET:HA	4:V:354:GLN:HG3	0.97	0.94
1:G:754:ASP:OD2	1:G:776:GLU:HA	1.67	0.94
1:J:534:SER:O	4:W:351:THR:HA	1.60	0.94
1:J:756:THR:CG2	1:J:776:GLU:HA	1.97	0.94
1:M:410:ASN:OD1	4:Z:334:GLU:C	2.10	0.94
1:M:795:ARG:HD2	3:O:43:ASN:OD1	1.64	0.94
1:M:818:TYR:HE1	2:N:127:ARG:NH2	1.66	0.94
1:S:546:THR:OG1	4:4:46:GLY:C	2.09	0.94
1:A:97:LEU:HD23	1:A:712:PRO:HB3	1.49	0.94
2:B:150:TYR:O	2:B:151:LYS:HB2	1.67	0.94
1:D:541:MET:N	4:9:349:LEU:HD21	1.80	0.94
1:G:546:THR:HG22	1:G:548:THR:H	1.32	0.94
1:J:756:THR:HG22	1:J:776:GLU:OE1	1.67	0.94
1:J:783:LEU:O	1:J:787:ILE:N	1.99	0.94
1:J:834:LEU:HD13	2:K:51:PHE:HE1	1.33	0.94
1:M:530:MET:CA	4:Z:354:GLN:CG	2.45	0.94
2:N:150:TYR:O	2:N:151:LYS:CG	2.16	0.94
1:S:218:LEU:CB	1:S:221:GLN:CG	2.46	0.94
4:1:287:ILE:CD1	4:3:203:THR:HB	1.96	0.94
1:A:553:MLY:HB3	4:V:46:GLY:HA2	1.47	0.94
1:A:798:LEU:HD11	3:C:126:LEU:HD21	0.95	0.94
1:D:206:LYS:CD	1:D:217:THR:CG2	2.16	0.94
1:D:215:GLN:HA	1:D:340:ILE:HG23	0.95	0.94
1:D:557:GLU:N	4:W:48:GLY:CA	2.12	0.94
1:D:612:GLN:NE2	1:D:627:GLY:CA	2.31	0.94
1:D:724:TYR:HB3	1:D:782:MLY:CD	1.96	0.94
1:D:732:ILE:CD1	1:D:782:MLY:HH11	1.95	0.94
2:E:150:TYR:O	2:E:151:LYS:CG	2.15	0.94
1:G:292:MET:HE1	1:G:309:PRO:HA	1.47	0.94
1:G:553:MLY:CE	4:X:45:VAL:HB	1.91	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:830:PRO:CB	2:H:67:MET:HE2	1.96	0.94
1:J:538:GLU:N	4:W:349:LEU:CD1	2.28	0.94
1:J:612:GLN:NE2	1:J:627:GLY:CA	2.31	0.94
1:J:710:GLY:C	1:J:772:LEU:HD22	1.90	0.94
1:J:756:THR:HG23	1:J:779:ARG:HD2	1.47	0.94
1:M:800:ARG:HB3	3:O:149:VAL:HG22	1.47	0.94
2:N:121:LEU:CB	2:N:128:PHE:HB3	1.69	0.94
1:S:709:LYS:C	1:S:710:GLY:CA	2.41	0.94
4:2:112:PRO:CB	4:3:196:ARG:CA	2.44	0.94
4:9:288:ASP:HA	4:W:204:ALA:HB2	1.48	0.94
1:A:292:MET:HE1	1:A:309:PRO:HA	1.47	0.94
1:A:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.94
1:G:215:GLN:HA	1:G:340:ILE:HG23	0.95	0.94
2:H:150:TYR:O	2:H:151:LYS:HG3	1.65	0.94
1:J:546:THR:HG22	1:J:548:THR:H	1.32	0.94
2:K:150:TYR:O	2:K:151:LYS:CG	2.15	0.94
1:S:84:MLY:CH1	1:S:724:TYR:HE2	1.80	0.94
1:S:612:GLN:NE2	1:S:627:GLY:HA3	1.83	0.94
1:S:736:GLN:CA	1:S:743:ALA:HB2	1.95	0.94
1:S:795:ARG:HB2	3:U:35:ARG:NH1	1.83	0.94
4:7:288:ASP:HA	4:9:204:ALA:HB2	1.48	0.94
1:A:538:GLU:HG3	4:8:352:PHE:N	1.82	0.94
1:D:557:GLU:H	4:W:48:GLY:HA2	1.32	0.94
1:J:84:MLY:NZ	1:J:724:TYR:CE2	2.35	0.94
1:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.94
1:J:612:GLN:NE2	1:J:627:GLY:HA3	1.83	0.94
1:M:218:LEU:CB	1:M:221:GLN:CG	2.46	0.94
1:M:612:GLN:NE2	1:M:627:GLY:HA3	1.83	0.94
2:N:149:ASP:CG	2:N:150:TYR:H	1.73	0.94
4:2:287:ILE:HG12	4:4:203:THR:H	1.30	0.94
4:4:322:PRO:HB3	4:6:244:ASP:CB	1.98	0.94
4:X:324:THR:HB	4:Z:246:GLN:HA	1.50	0.94
1:A:530:MET:HA	4:8:354:GLN:HG3	0.96	0.93
1:A:630:ALA:O	4:8:25:ASP:CG	2.10	0.93
1:G:795:ARG:NE	3:I:116:GLU:CB	2.27	0.93
4:X:287:ILE:HG12	4:Z:201:VAL:H	1.29	0.93
1:A:768:MLY:HG2	1:A:771:LEU:HD13	1.49	0.93
1:D:818:TYR:CG	2:E:90:GLY:HA3	2.03	0.93
1:G:530:MET:CA	4:V:354:GLN:CG	2.45	0.93
1:G:612:GLN:NE2	1:G:627:GLY:HA3	1.83	0.93
1:G:754:ASP:CB	1:G:776:GLU:HA	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:829:TRP:CE3	2:K:87:LYS:NZ	2.29	0.93
1:M:541:MET:N	4:Z:349:LEU:HD21	1.80	0.93
1:M:553:MLY:HB3	4:2:46:GLY:HA2	1.48	0.93
2:N:117:LEU:HD13	2:N:147:ASN:OD1	1.64	0.93
1:D:612:GLN:NE2	1:D:627:GLY:HA3	1.83	0.93
1:D:642:LYS:CG	4:9:23:GLY:H	1.77	0.93
2:E:149:ASP:CG	2:E:150:TYR:H	1.72	0.93
1:G:206:LYS:CD	1:G:217:THR:CG2	2.16	0.93
1:G:215:GLN:H	1:G:340:ILE:CG1	1.73	0.93
1:G:819:ASN:ND2	2:H:92:ASP:CB	2.30	0.93
1:J:795:ARG:NE	3:L:116:GLU:CD	2.25	0.93
1:S:750:GLY:CA	3:U:89:GLU:HB3	1.97	0.93
2:T:121:LEU:HG	2:T:128:PHE:HA	1.47	0.93
4:3:287:ILE:CG2	4:5:204:ALA:H	1.81	0.93
4:3:322:PRO:HB3	4:5:244:ASP:CB	1.97	0.93
4:X:324:THR:CG2	4:Z:247:VAL:HG23	1.93	0.93
1:A:641:LYS:HG3	1:A:647:GLN:NE2	1.58	0.93
1:D:546:THR:HG22	1:D:548:THR:H	1.32	0.93
1:D:747:LEU:CD2	1:D:782:MLY:HH11	1.96	0.93
1:G:84:MLY:HH21	1:G:720:PHE:HA	1.51	0.93
1:M:530:MET:HA	4:Z:354:GLN:HG3	0.96	0.93
1:S:530:MET:CA	4:2:354:GLN:CG	2.44	0.93
1:S:831:TRP:CH2	2:T:47:LEU:HD21	2.00	0.93
2:T:150:TYR:O	2:T:151:LYS:HB2	1.67	0.93
4:4:287:ILE:CG2	4:6:204:ALA:H	1.81	0.93
2:B:150:TYR:O	2:B:151:LYS:CG	2.15	0.93
1:D:726:VAL:CG1	1:D:785:GLU:CG	2.44	0.93
1:J:530:MET:HA	4:W:354:GLN:HG3	0.96	0.93
1:S:770:GLY:O	1:S:774:LEU:CA	2.15	0.93
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.93
1:J:93:MET:HE2	1:J:764:MLY:CD	1.99	0.93
1:J:739:ASP:HB3	1:J:742:LYS:CB	1.99	0.93
1:J:756:THR:HG21	1:J:776:GLU:C	1.92	0.93
1:M:798:LEU:CD2	3:O:126:LEU:HD11	1.98	0.93
1:S:749:GLY:O	3:U:89:GLU:HB3	1.69	0.93
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.98	0.93
1:G:792:ALA:CB	3:I:42:THR:CA	2.47	0.93
1:J:84:MLY:HH11	1:J:720:PHE:CE1	2.04	0.93
1:M:642:LYS:CG	4:Z:23:GLY:H	1.77	0.93
1:S:642:LYS:CB	4:2:21:PHE:O	2.17	0.93
1:S:836:PHE:CE2	2:T:160:GLY:CA	2.52	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:GLN:HE22	1:A:723:ARG:HH21	0.97	0.93
1:A:502:GLU:O	1:A:761:GLY:HA2	1.69	0.93
1:A:642:LYS:CB	4:8:21:PHE:O	2.17	0.93
1:A:739:ASP:HB3	1:A:742:LYS:CB	1.99	0.93
1:A:831:TRP:CZ3	2:B:50:THR:HG21	2.04	0.93
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	0.93
1:D:530:MET:HA	4:9:354:GLN:HG3	0.96	0.93
1:D:639:GLY:N	4:9:345:ILE:N	1.94	0.93
1:G:629:GLU:CB	1:G:643:GLY:O	2.17	0.93
1:G:797:PHE:HE2	3:I:126:LEU:CD2	1.61	0.93
1:J:215:GLN:H	1:J:340:ILE:CG1	1.72	0.93
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	0.93
1:J:836:PHE:HE1	2:K:159:HIS:HA	1.23	0.93
1:M:612:GLN:NE2	1:M:627:GLY:CA	2.31	0.93
1:M:641:LYS:HG3	1:M:647:GLN:NE2	1.58	0.93
1:S:215:GLN:HA	1:S:340:ILE:HG23	0.95	0.93
1:S:821:ARG:HH21	2:T:127:ARG:HG2	1.27	0.93
4:3:287:ILE:HD13	4:5:203:THR:CB	1.91	0.93
4:4:287:ILE:HG21	4:6:202:THR:CB	1.99	0.93
1:A:648:THR:HG21	1:A:651:ALA:HB2	1.50	0.93
1:J:642:LYS:CB	4:W:21:PHE:O	2.17	0.93
1:J:791:GLN:HE21	3:L:115:GLY:HA3	1.31	0.93
1:J:836:PHE:CZ	2:K:160:GLY:N	2.35	0.93
1:M:215:GLN:HA	1:M:340:ILE:HG23	0.95	0.93
1:M:797:PHE:HE2	3:O:126:LEU:CD2	1.81	0.93
2:T:149:ASP:CG	2:T:150:TYR:H	1.73	0.93
4:4:322:PRO:HB2	4:6:244:ASP:HB3	1.49	0.93
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	0.93
1:G:739:ASP:HB3	1:G:742:LYS:CB	1.99	0.93
2:H:150:TYR:O	2:H:151:LYS:CG	2.15	0.93
1:J:567:LYS:HZ2	4:Y:92:ASN:HD22	1.06	0.93
1:S:149:GLN:OE1	1:S:763:THR:HA	1.69	0.93
4:2:204:ALA:HB2	4:Z:288:ASP:HA	1.48	0.93
4:X:291:LYS:CD	4:Z:243:PRO:C	2.41	0.93
1:A:502:GLU:HA	1:A:761:GLY:CA	1.99	0.92
1:J:538:GLU:N	4:W:351:THR:H	1.67	0.92
4:3:287:ILE:CG1	4:5:202:THR:CB	2.33	0.92
1:A:215:GLN:HA	1:A:340:ILE:HG23	0.96	0.92
1:A:557:GLU:H	4:V:48:GLY:HA2	1.32	0.92
2:E:150:TYR:O	2:E:151:LYS:HB2	1.67	0.92
1:G:834:LEU:CD1	2:H:51:PHE:CE1	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:530:MET:CA	4:W:354:GLN:CG	2.44	0.92
1:J:834:LEU:HD13	2:K:51:PHE:CE1	2.02	0.92
2:K:150:TYR:O	2:K:151:LYS:HB2	1.67	0.92
1:M:629:GLU:CB	1:M:643:GLY:O	2.17	0.92
1:M:817:GLN:HG2	2:N:127:ARG:HD2	1.45	0.92
4:3:287:ILE:HG21	4:5:202:THR:CB	1.99	0.92
4:3:287:ILE:HB	4:5:203:THR:HG22	1.50	0.92
1:A:831:TRP:HZ2	2:B:47:LEU:CA	1.80	0.92
1:J:829:TRP:CH2	2:K:87:LYS:HE2	2.03	0.92
1:M:797:PHE:CE1	3:O:149:VAL:CG1	2.52	0.92
1:M:836:PHE:CZ	2:N:160:GLY:N	2.34	0.92
1:S:612:GLN:NE2	1:S:627:GLY:CA	2.31	0.92
1:S:629:GLU:CB	1:S:643:GLY:O	2.17	0.92
4:1:287:ILE:CB	4:3:203:THR:HG22	2.00	0.92
1:A:834:LEU:HD21	2:B:54:MET:HE3	0.93	0.92
1:D:508:ILE:CD1	1:D:766:PHE:CE2	2.52	0.92
1:D:642:LYS:CB	4:9:21:PHE:O	2.17	0.92
1:D:834:LEU:CG	2:E:54:MET:HG3	1.99	0.92
1:J:801:VAL:HG21	3:L:126:LEU:HD23	1.47	0.92
1:M:834:LEU:HD13	2:N:51:PHE:CE1	2.05	0.92
1:S:731:ALA:CB	3:U:93:VAL:C	2.43	0.92
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.69	0.92
1:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.92
1:A:817:GLN:CD	2:B:127:ARG:CG	2.39	0.92
1:J:84:MLY:NZ	1:J:724:TYR:HE2	1.66	0.92
1:J:791:GLN:NE2	3:L:115:GLY:HA3	1.84	0.92
1:S:834:LEU:HD13	2:T:51:PHE:HE1	0.75	0.92
4:2:287:ILE:HG21	4:4:203:THR:N	1.84	0.92
4:X:291:LYS:CG	4:Z:244:ASP:N	2.24	0.92
2:H:150:TYR:O	2:H:151:LYS:HB2	1.67	0.92
1:M:641:LYS:HE3	1:M:647:GLN:CG	2.00	0.92
1:D:278:GLN:HG2	1:D:317:GLU:HB2	1.52	0.92
1:D:820:VAL:HG11	2:E:136:MET:CE	1.99	0.92
1:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.92
1:G:791:GLN:CD	3:I:116:GLU:H	1.77	0.92
1:J:505:MLY:HD2	1:J:762:HIS:HE1	1.17	0.92
1:J:639:GLY:N	4:W:345:ILE:N	1.94	0.92
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.92
1:J:829:TRP:CZ2	2:K:83:MET:HE3	2.05	0.92
1:M:28:GLN:C	1:M:723:ARG:HH22	1.77	0.92
1:M:642:LYS:CB	4:Z:21:PHE:O	2.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:834:LEU:CD1	2:N:51:PHE:HE1	1.82	0.92
1:S:93:MET:HE3	1:S:764:MLY:HD2	0.93	0.92
1:S:638:GLY:HA3	4:2:341:ILE:O	1.70	0.92
4:V:286:ASP:OD2	4:X:203:THR:HG22	1.69	0.92
1:A:149:GLN:CB	1:A:718:ALA:HB3	2.00	0.92
1:A:629:GLU:CB	1:A:643:GLY:O	2.17	0.92
1:A:638:GLY:HA3	4:8:341:ILE:O	1.70	0.92
1:A:795:ARG:HD2	3:C:35:ARG:HH12	0.77	0.92
1:D:708:ARG:C	1:D:710:GLY:N	2.28	0.92
1:G:537:GLU:O	4:V:349:LEU:HD13	0.74	0.92
1:G:648:THR:HG21	1:G:651:ALA:HB2	1.50	0.92
1:G:707:CYS:SG	1:G:714:ARG:NH2	2.43	0.92
1:J:278:GLN:HG2	1:J:317:GLU:HB2	1.52	0.92
1:J:756:THR:CG2	1:J:776:GLU:CA	2.48	0.92
1:A:502:GLU:HG2	1:A:764:MLY:O	1.69	0.92
1:A:612:GLN:NE2	1:A:627:GLY:CA	2.31	0.92
1:D:629:GLU:CB	1:D:643:GLY:O	2.17	0.92
1:G:642:LYS:CB	4:V:21:PHE:O	2.17	0.92
1:G:728:ASN:HD21	3:I:114:LEU:HD23	1.16	0.92
1:G:831:TRP:CZ2	2:H:47:LEU:HD22	2.01	0.92
1:J:636:LYS:H	4:W:334:GLU:CD	1.78	0.92
1:J:641:LYS:HE3	1:J:647:GLN:CG	2.00	0.92
1:M:542:PHE:HA	4:Z:143:TYR:HE1	1.34	0.92
1:S:641:LYS:HE3	1:S:647:GLN:CG	2.00	0.92
1:A:641:LYS:HE3	1:A:647:GLN:CG	2.00	0.92
1:D:648:THR:HG21	1:D:651:ALA:HB2	1.50	0.92
1:D:800:ARG:NH2	3:F:40:ASN:CG	2.28	0.92
1:G:612:GLN:NE2	1:G:627:GLY:CA	2.31	0.92
1:G:817:GLN:HG2	2:H:127:ARG:CB	2.00	0.92
1:J:553:MLY:HG3	4:Y:45:VAL:C	1.95	0.92
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.92
1:M:538:GLU:N	4:Z:351:THR:H	1.67	0.92
4:1:203:THR:HG22	4:Y:286:ASP:OD2	1.70	0.92
4:X:291:LYS:HD2	4:Z:244:ASP:H	1.23	0.92
1:A:537:GLU:O	4:8:349:LEU:HD13	0.74	0.91
1:A:544:LYS:HD2	4:8:147:ARG:HB3	1.53	0.91
1:D:641:LYS:HG3	1:D:647:GLN:NE2	1.59	0.91
1:D:818:TYR:HB2	2:E:90:GLY:CA	1.95	0.91
1:G:541:MET:N	4:V:349:LEU:HD21	1.80	0.91
1:G:636:LYS:H	4:V:334:GLU:CD	1.78	0.91
1:M:648:THR:HG21	1:M:651:ALA:HB2	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:739:ASP:HB3	1:S:742:LYS:CB	1.98	0.91
4:1:287:ILE:HG23	4:3:202:THR:OG1	1.68	0.91
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	0.91
1:G:819:ASN:HA	2:H:90:GLY:C	1.95	0.91
1:G:829:TRP:CZ2	2:H:87:LYS:HE2	2.04	0.91
1:J:218:LEU:CB	1:J:221:GLN:CG	2.46	0.91
1:M:800:ARG:HB3	3:O:149:VAL:CG2	2.00	0.91
1:S:218:LEU:HA	1:S:221:GLN:CG	2.01	0.91
1:S:542:PHE:HA	4:2:143:TYR:HE1	1.34	0.91
1:S:791:GLN:OE1	3:U:116:GLU:HG3	1.70	0.91
1:S:797:PHE:HE1	3:U:146:ILE:O	1.48	0.91
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	0.91
1:A:95:THR:HG1	1:A:769:ALA:C	1.75	0.91
1:A:218:LEU:HA	1:A:221:GLN:CG	2.01	0.91
1:A:538:GLU:N	4:8:349:LEU:HD12	1.86	0.91
1:D:836:PHE:CE2	2:E:160:GLY:N	2.39	0.91
1:M:218:LEU:HA	1:M:221:GLN:CG	2.01	0.91
1:M:537:GLU:O	4:Z:349:LEU:HD13	0.73	0.91
1:M:797:PHE:CD1	3:O:149:VAL:HG12	2.03	0.91
1:M:798:LEU:HD23	3:O:122:GLU:HB3	1.53	0.91
1:S:537:GLU:O	4:2:349:LEU:HD13	0.73	0.91
1:S:641:LYS:HG3	1:S:647:GLN:NE2	1.59	0.91
1:S:831:TRP:CZ2	2:T:47:LEU:HD22	2.05	0.91
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	0.91
1:A:501:GLU:O	1:A:762:HIS:CE1	2.22	0.91
1:A:538:GLU:N	4:8:351:THR:H	1.68	0.91
1:D:530:MET:CA	4:9:354:GLN:CG	2.45	0.91
1:D:538:GLU:N	4:9:351:THR:H	1.68	0.91
1:D:641:LYS:HE3	1:D:647:GLN:CG	2.00	0.91
1:G:218:LEU:CB	1:G:221:GLN:CG	2.46	0.91
1:G:567:LYS:HZ2	4:X:92:ASN:HD22	1.12	0.91
1:G:795:ARG:CA	3:I:118:MET:HE1	2.00	0.91
1:J:537:GLU:O	4:W:349:LEU:HD13	0.73	0.91
1:J:792:ALA:H	3:L:42:THR:HG22	1.36	0.91
1:M:538:GLU:N	4:Z:349:LEU:HD12	1.86	0.91
1:D:799:MET:SD	3:F:32:ASP:HA	2.11	0.91
1:J:567:LYS:HZ1	4:Y:92:ASN:HD22	1.16	0.91
1:J:756:THR:CG2	1:J:776:GLU:CD	2.43	0.91
1:J:829:TRP:CE2	2:K:87:LYS:HE2	2.04	0.91
1:M:544:LYS:HD2	4:Z:147:ARG:HB3	1.53	0.91
1:M:636:LYS:HD2	4:Z:332:PRO:HB3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:739:ASP:HB3	1:M:742:LYS:CB	1.99	0.91
1:M:836:PHE:HE1	2:N:159:HIS:HA	1.32	0.91
2:N:150:TYR:O	2:N:151:LYS:HB2	1.67	0.91
1:S:502:GLU:OE1	1:S:761:GLY:CA	2.18	0.91
1:S:546:THR:HG22	1:S:548:THR:H	1.32	0.91
4:1:247:VAL:H	4:Y:324:THR:CG2	1.84	0.91
4:2:244:ASP:CG	4:Z:322:PRO:HB2	1.94	0.91
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.91
4:W:324:THR:CG2	4:Y:247:VAL:H	1.84	0.91
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.70	0.91
1:D:636:LYS:H	4:9:334:GLU:CD	1.78	0.91
1:D:813:ILE:CG2	2:E:128:PHE:HZ	1.60	0.91
1:J:218:LEU:HA	1:J:221:GLN:CG	2.01	0.91
1:J:629:GLU:CB	1:J:643:GLY:O	2.17	0.91
1:S:636:LYS:H	4:2:334:GLU:CD	1.78	0.91
1:A:817:GLN:CG	2:B:127:ARG:CD	2.47	0.91
1:D:538:GLU:N	4:9:349:LEU:HD12	1.86	0.91
1:J:567:LYS:HZ1	4:Y:92:ASN:ND2	1.65	0.91
1:S:829:TRP:CH2	2:T:87:LYS:HE2	2.06	0.91
4:2:287:ILE:CB	4:4:203:THR:CG2	2.35	0.91
4:V:324:THR:CG2	4:X:247:VAL:H	1.84	0.91
1:D:712:PRO:HB2	1:D:771:LEU:CB	2.01	0.91
1:D:727:LEU:CD1	1:D:782:MLY:HH12	1.99	0.91
1:D:797:PHE:CE1	3:F:146:ILE:CA	2.53	0.91
1:G:795:ARG:HB3	3:I:35:ARG:HH22	1.34	0.91
1:S:92:ALA:HB3	1:S:764:MLY:HH11	1.53	0.91
1:S:752:ASP:CB	3:U:86:ASP:OD2	2.19	0.91
1:S:786:ILE:C	1:S:787:ILE:C	2.39	0.91
1:D:218:LEU:CB	1:D:221:GLN:CG	2.46	0.91
1:D:735:GLY:O	1:D:743:ALA:CA	2.19	0.91
1:J:831:TRP:HE1	2:K:67:MET:HB3	1.35	0.91
1:M:736:GLN:CA	1:M:743:ALA:HB2	1.95	0.91
1:S:746:LYS:HZ3	3:U:96:LYS:HA	1.35	0.91
1:S:798:LEU:HD12	3:U:126:LEU:HD21	1.52	0.91
4:1:287:ILE:HG21	4:3:204:ALA:H	1.33	0.91
1:A:218:LEU:CB	1:A:221:GLN:CG	2.46	0.91
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.49	0.91
1:J:768:MLY:CH1	1:J:772:LEU:HD12	1.95	0.91
1:M:557:GLU:N	4:2:48:GLY:CA	2.12	0.91
1:S:278:GLN:HG2	1:S:317:GLU:HB2	1.52	0.91
1:S:544:LYS:HD2	4:2:147:ARG:HB3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:649:VAL:CB	1:S:649:VAL:CG2	2.49	0.91
1:S:829:TRP:CH2	2:T:87:LYS:NZ	2.39	0.91
1:A:505:MLY:HB3	1:A:762:HIS:CG	2.03	0.90
1:A:550:PHE:HA	4:V:46:GLY:CA	2.01	0.90
1:A:649:VAL:CB	1:A:649:VAL:CG2	2.50	0.90
1:G:638:GLY:HA3	4:V:341:ILE:O	1.70	0.90
1:G:641:LYS:HG3	1:G:647:GLN:NE2	1.58	0.90
1:G:838:ILE:HD12	2:H:54:MET:HE3	1.51	0.90
1:M:649:VAL:CB	1:M:649:VAL:CG2	2.49	0.90
4:3:324:THR:HG23	4:5:244:ASP:CA	2.01	0.90
4:X:291:LYS:CD	4:Z:243:PRO:HB2	1.99	0.90
1:A:149:GLN:OE1	1:A:716:LEU:HD23	0.73	0.90
1:D:544:LYS:HD2	4:9:147:ARG:HB3	1.53	0.90
1:D:713:SER:HB3	1:D:775:LEU:HD22	1.51	0.90
1:D:800:ARG:O	3:F:149:VAL:HG21	1.69	0.90
1:G:544:LYS:HD2	4:V:147:ARG:HB3	1.53	0.90
1:G:834:LEU:HD13	2:H:51:PHE:CE1	2.05	0.90
1:J:93:MET:HE1	1:J:716:LEU:CD1	2.02	0.90
1:M:278:GLN:HG2	1:M:317:GLU:HB2	1.52	0.90
1:S:636:LYS:HD2	4:2:332:PRO:HB3	1.52	0.90
3:U:62:ALA:O	3:U:63:ILE:HG12	1.71	0.90
4:2:166:TYR:CZ	4:4:64:ILE:HG21	2.05	0.90
1:A:553:MLY:HE2	4:V:45:VAL:HA	1.53	0.90
2:B:117:LEU:CG	2:B:147:ASN:CG	2.44	0.90
1:D:508:ILE:HD13	1:D:766:PHE:CD1	2.06	0.90
1:G:538:GLU:N	4:V:351:THR:H	1.68	0.90
1:G:813:ILE:HG23	2:H:128:PHE:CZ	2.06	0.90
1:J:215:GLN:HA	1:J:340:ILE:HG23	0.95	0.90
1:J:819:ASN:CG	2:K:90:GLY:O	2.14	0.90
1:M:819:ASN:OD1	2:N:92:ASP:CB	2.18	0.90
2:N:117:LEU:CG	2:N:147:ASN:CG	2.44	0.90
1:S:648:THR:HG21	1:S:651:ALA:HB2	1.50	0.90
4:3:287:ILE:CD1	4:5:203:THR:HB	2.01	0.90
1:A:636:LYS:HD2	4:8:332:PRO:HB3	1.51	0.90
1:G:97:LEU:CD2	1:G:712:PRO:CB	2.50	0.90
1:G:218:LEU:HA	1:G:221:GLN:CG	2.01	0.90
1:G:542:PHE:HA	4:V:143:TYR:HE1	1.34	0.90
1:G:641:LYS:HE3	1:G:647:GLN:CG	2.00	0.90
1:G:728:ASN:ND2	3:I:113:THR:O	2.04	0.90
1:J:95:THR:N	1:J:713:SER:HB3	1.84	0.90
1:J:735:GLY:O	1:J:743:ALA:CA	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:817:GLN:CD	2:K:127:ARG:CD	2.41	0.90
1:M:553:MLY:HE2	4:2:45:VAL:HA	1.53	0.90
1:M:638:GLY:HA3	4:Z:341:ILE:O	1.70	0.90
1:M:735:GLY:O	1:M:743:ALA:CA	2.19	0.90
1:M:804:ARG:O	1:M:808:GLU:N	2.04	0.90
3:O:62:ALA:O	3:O:63:ILE:CG1	2.19	0.90
1:S:538:GLU:N	4:2:351:THR:H	1.68	0.90
1:A:809:ARG:NH1	2:B:124:GLY:HA2	1.85	0.90
2:E:137:TRP:HA	2:E:145:ALA:HB2	1.54	0.90
1:G:84:MLY:CH2	1:G:719:ASP:C	2.45	0.90
1:G:149:GLN:CD	1:G:763:THR:HG23	1.96	0.90
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.59	0.90
1:M:721:LYS:CB	1:M:736:GLN:OE1	2.20	0.90
3:O:24:LYS:HB3	3:O:63:ILE:O	1.72	0.90
1:D:538:GLU:O	4:9:349:LEU:CG	2.20	0.90
1:G:278:GLN:HG2	1:G:317:GLU:HB2	1.52	0.90
1:G:796:GLY:CA	3:I:35:ARG:HD3	1.99	0.90
3:I:24:LYS:HB3	3:I:63:ILE:O	1.72	0.90
1:M:557:GLU:H	4:2:48:GLY:HA2	1.32	0.90
1:M:636:LYS:H	4:Z:334:GLU:CD	1.78	0.90
1:S:721:LYS:CB	1:S:736:GLN:OE1	2.20	0.90
4:4:287:ILE:HB	4:6:203:THR:HG22	1.50	0.90
1:A:107:MLY:HB3	1:A:686:MET:HE2	1.54	0.90
1:D:795:ARG:CB	3:F:35:ARG:HH12	1.76	0.90
1:G:567:LYS:HZ1	4:X:92:ASN:HD22	1.11	0.90
1:G:736:GLN:HA	1:G:743:ALA:HB2	1.51	0.90
1:J:538:GLU:O	4:W:349:LEU:CG	2.20	0.90
1:J:544:LYS:HD2	4:W:147:ARG:HB3	1.53	0.90
1:M:649:VAL:CG2	1:M:649:VAL:HG13	2.02	0.90
1:S:107:MLY:HB3	1:S:686:MET:HE2	1.54	0.90
1:S:549:SER:HA	4:4:43:VAL:CG1	2.01	0.90
1:S:641:LYS:CD	1:S:647:GLN:OE1	2.18	0.90
1:S:649:VAL:CG2	1:S:649:VAL:HG13	2.02	0.90
2:T:117:LEU:CG	2:T:147:ASN:CG	2.44	0.90
3:U:62:ALA:O	3:U:63:ILE:CG1	2.19	0.90
1:A:530:MET:N	4:8:354:GLN:HB3	1.87	0.90
1:A:553:MLY:CG	4:V:44:MET:O	2.20	0.90
1:A:735:GLY:O	1:A:743:ALA:CA	2.19	0.90
1:A:795:ARG:HD3	3:C:43:ASN:OD1	1.70	0.90
1:A:797:PHE:CE2	3:C:146:ILE:HD12	2.06	0.90
1:D:721:LYS:CB	1:D:736:GLN:OE1	2.20	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:636:LYS:HD2	4:W:332:PRO:HB3	1.52	0.90
1:J:638:GLY:HA3	4:W:341:ILE:O	1.70	0.90
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	0.90
1:M:819:ASN:OD1	2:N:91:ALA:C	2.14	0.90
1:A:542:PHE:HA	4:8:143:TYR:HE1	1.34	0.90
1:D:85:TYR:HH	1:D:772:LEU:HD23	0.94	0.90
1:D:218:LEU:HA	1:D:221:GLN:CG	2.01	0.90
1:D:550:PHE:CA	4:W:46:GLY:HA3	2.02	0.90
1:G:817:GLN:HG2	2:H:127:ARG:HB2	1.53	0.90
1:M:550:PHE:CA	4:2:46:GLY:HA3	2.02	0.90
1:M:550:PHE:HA	4:2:46:GLY:CA	2.00	0.90
1:S:795:ARG:NH1	3:U:43:ASN:CG	2.08	0.90
1:S:805:ALA:O	1:S:809:ARG:HB2	1.72	0.90
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	0.90
1:A:831:TRP:CZ3	2:B:34:ILE:HG23	2.06	0.90
3:C:62:ALA:O	3:C:63:ILE:HG12	1.71	0.90
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	0.90
1:D:791:GLN:NE2	3:F:115:GLY:C	2.15	0.90
1:J:206:LYS:CD	1:J:217:THR:CG2	2.16	0.90
1:J:534:SER:HA	4:W:350:SER:O	1.71	0.90
1:J:839:MLY:HH21	2:K:158:THR:HG22	1.53	0.90
1:M:534:SER:HA	4:Z:350:SER:O	1.71	0.90
1:M:538:GLU:O	4:Z:349:LEU:CG	2.20	0.90
1:M:640:LYS:C	4:Z:23:GLY:O	2.15	0.90
1:M:817:GLN:HB3	2:N:127:ARG:NH1	1.87	0.90
1:S:538:GLU:O	4:2:349:LEU:CG	2.20	0.90
1:S:783:LEU:HB3	1:S:786:ILE:CD1	1.99	0.90
1:A:550:PHE:CA	4:V:46:GLY:HA3	2.02	0.89
1:A:736:GLN:CA	1:A:743:ALA:HB2	1.95	0.89
1:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.89
1:D:641:LYS:CD	1:D:647:GLN:OE1	2.17	0.89
1:D:649:VAL:CB	1:D:649:VAL:CG2	2.49	0.89
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.54	0.89
1:G:649:VAL:HG13	1:G:649:VAL:CG2	2.02	0.89
1:G:826:VAL:HG21	2:H:88:LEU:HD21	1.54	0.89
1:G:829:TRP:CH2	2:H:83:MET:HE3	2.06	0.89
1:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.89
2:K:137:TRP:HA	2:K:145:ALA:HB2	1.53	0.89
3:L:62:ALA:O	3:L:63:ILE:CG1	2.19	0.89
1:M:793:ARG:NH1	3:O:40:ASN:HD22	1.66	0.89
3:O:62:ALA:O	3:O:63:ILE:HG12	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:753:VAL:HG22	1:S:779:ARG:HH22	1.34	0.89
1:A:649:VAL:HG13	1:A:649:VAL:CG2	2.02	0.89
3:C:62:ALA:O	3:C:63:ILE:CG1	2.19	0.89
1:D:550:PHE:HA	4:W:46:GLY:CA	2.00	0.89
1:D:636:LYS:HD2	4:9:332:PRO:HB3	1.52	0.89
1:G:553:MLY:NZ	4:X:45:VAL:HG11	1.88	0.89
1:G:795:ARG:NH2	3:I:116:GLU:HB3	1.84	0.89
1:J:649:VAL:CG2	1:J:649:VAL:HG13	2.02	0.89
1:J:836:PHE:CE1	2:K:159:HIS:CA	2.52	0.89
1:M:735:GLY:C	1:M:743:ALA:HB1	1.84	0.89
1:S:92:ALA:O	1:S:714:ARG:HG3	0.72	0.89
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.53	0.89
1:D:640:LYS:C	4:9:23:GLY:O	2.15	0.89
1:D:649:VAL:CG2	1:D:649:VAL:HG13	2.02	0.89
3:F:62:ALA:O	3:F:63:ILE:CG1	2.19	0.89
1:G:534:SER:HA	4:V:350:SER:O	1.71	0.89
1:G:636:LYS:HD2	4:V:332:PRO:HB3	1.52	0.89
2:H:117:LEU:CG	2:H:147:ASN:CG	2.45	0.89
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.89
1:J:826:VAL:HG21	2:K:88:LEU:CD2	2.02	0.89
1:S:735:GLY:O	1:S:743:ALA:CA	2.19	0.89
1:S:746:LYS:O	3:U:93:VAL:HG22	1.70	0.89
1:A:502:GLU:HA	1:A:761:GLY:C	1.96	0.89
1:A:630:ALA:C	4:8:25:ASP:OD2	2.15	0.89
3:C:24:LYS:HB3	3:C:63:ILE:O	1.72	0.89
1:G:92:ALA:O	1:G:714:ARG:HG3	1.72	0.89
1:G:829:TRP:CH2	2:H:87:LYS:HE2	2.06	0.89
1:J:813:ILE:CG2	2:K:128:PHE:HE1	1.86	0.89
1:M:530:MET:N	4:Z:354:GLN:HB3	1.87	0.89
1:S:541:MET:CB	4:2:143:TYR:OH	2.20	0.89
1:S:640:LYS:C	4:2:23:GLY:O	2.15	0.89
1:S:793:ARG:HD3	3:U:40:ASN:ND2	1.87	0.89
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.54	0.89
2:E:117:LEU:CG	2:E:147:ASN:CG	2.44	0.89
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.89
1:G:735:GLY:O	1:G:743:ALA:CA	2.20	0.89
3:I:62:ALA:O	3:I:63:ILE:CG1	2.19	0.89
1:M:107:MLY:HB3	1:M:686:MET:HE2	1.54	0.89
1:M:553:MLY:CG	4:2:44:MET:O	2.20	0.89
1:M:599:ASN:OD1	1:M:649:VAL:HB	1.73	0.89
2:N:137:TRP:HA	2:N:145:ALA:HB2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:819:ASN:CG	2:T:90:GLY:O	2.14	0.89
1:A:278:GLN:HG2	1:A:317:GLU:HB2	1.52	0.89
1:A:502:GLU:CG	1:A:761:GLY:N	2.35	0.89
1:A:534:SER:HA	4:8:350:SER:O	1.71	0.89
1:D:215:GLN:H	1:D:340:ILE:CG1	1.73	0.89
1:G:642:LYS:HG2	4:V:22:ALA:CA	2.03	0.89
1:J:84:MLY:HA	1:J:723:ARG:NH1	1.86	0.89
1:J:530:MET:N	4:W:354:GLN:HB3	1.87	0.89
1:J:721:LYS:CB	1:J:736:GLN:OE1	2.20	0.89
1:M:635:GLY:CA	4:Z:341:ILE:HD13	2.02	0.89
1:S:793:ARG:HH11	3:U:40:ASN:ND2	1.48	0.89
1:A:709:LYS:O	1:A:710:GLY:CA	2.20	0.89
1:D:638:GLY:HA3	4:9:341:ILE:O	1.70	0.89
3:F:62:ALA:O	3:F:63:ILE:HG12	1.71	0.89
1:S:635:GLY:CA	4:2:341:ILE:HD13	2.02	0.89
1:A:215:GLN:H	1:A:340:ILE:HG12	1.06	0.89
1:A:640:LYS:C	4:8:23:GLY:O	2.15	0.89
1:D:534:SER:O	4:9:351:THR:HG23	1.13	0.89
1:D:727:LEU:CB	1:D:782:MLY:CE	2.51	0.89
1:J:635:GLY:CA	4:W:341:ILE:HD13	2.02	0.89
1:M:557:GLU:H	4:2:48:GLY:HA3	1.28	0.89
1:S:641:LYS:HD2	4:2:348:SER:CB	2.03	0.89
1:A:149:GLN:HE21	1:A:718:ALA:HB3	1.34	0.89
1:A:641:LYS:HD2	4:8:348:SER:CB	2.02	0.89
1:A:721:LYS:CB	1:A:736:GLN:OE1	2.20	0.89
1:G:538:GLU:O	4:V:349:LEU:CG	2.20	0.89
2:H:137:TRP:HA	2:H:145:ALA:HB2	1.54	0.89
2:K:144:VAL:HG13	2:K:153:ILE:HG12	1.14	0.89
3:L:24:LYS:HB3	3:L:63:ILE:O	1.72	0.89
1:M:642:LYS:HG2	4:Z:22:ALA:CA	2.03	0.89
1:M:806:MET:CA	1:M:807:VAL:N	2.35	0.89
1:S:629:GLU:HG2	1:S:643:GLY:O	1.72	0.89
4:3:324:THR:HG23	4:5:244:ASP:HA	1.52	0.89
1:A:215:GLN:H	1:A:340:ILE:CG1	1.73	0.89
1:A:629:GLU:HG2	1:A:643:GLY:O	1.72	0.89
1:J:792:ALA:HB2	3:L:42:THR:HG23	0.90	0.89
3:L:62:ALA:O	3:L:63:ILE:HG12	1.71	0.89
1:M:84:MLY:CH2	1:M:719:ASP:O	2.20	0.89
4:2:166:TYR:CE2	4:4:64:ILE:CG2	2.53	0.89
4:4:287:ILE:CD1	4:6:203:THR:HB	2.01	0.89
1:D:727:LEU:HD13	1:D:782:MLY:HH12	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:836:PHE:CE2	2:E:160:GLY:CA	2.56	0.88
1:J:505:MLY:CD	1:J:762:HIS:HE1	1.84	0.88
1:J:801:VAL:HG21	3:L:126:LEU:HD21	1.54	0.88
1:J:817:GLN:HB3	2:K:127:ARG:HH11	1.36	0.88
1:M:629:GLU:HG2	1:M:643:GLY:O	1.72	0.88
1:S:84:MLY:HH11	1:S:724:TYR:HE2	1.29	0.88
4:4:324:THR:HG23	4:6:244:ASP:HA	1.52	0.88
1:A:28:GLN:HE22	1:A:723:ARG:NH2	1.70	0.88
1:D:507:GLY:HA2	1:D:762:HIS:CE1	2.08	0.88
1:D:508:ILE:CD1	1:D:766:PHE:CD1	2.55	0.88
1:D:534:SER:HA	4:9:350:SER:O	1.71	0.88
1:G:635:GLY:CA	4:V:341:ILE:HD13	2.03	0.88
1:G:721:LYS:CB	1:G:736:GLN:OE1	2.20	0.88
1:J:94:MET:O	1:J:713:SER:HA	1.72	0.88
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.54	0.88
1:M:641:LYS:HD2	4:Z:348:SER:CB	2.02	0.88
1:M:836:PHE:CD1	2:N:159:HIS:HA	2.07	0.88
1:S:630:ALA:C	4:2:25:ASP:OD2	2.15	0.88
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.03	0.88
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.46	0.88
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.88
1:M:817:GLN:HG2	2:N:127:ARG:CB	2.01	0.88
1:S:753:VAL:CG1	1:S:779:ARG:CZ	2.50	0.88
1:S:797:PHE:CE1	3:U:149:VAL:HG12	2.08	0.88
1:D:635:GLY:HA2	4:9:334:GLU:CG	2.03	0.88
1:G:215:GLN:H	1:G:340:ILE:HG12	1.06	0.88
1:G:754:ASP:HB2	1:G:776:GLU:CA	2.00	0.88
1:G:819:ASN:CG	2:H:90:GLY:O	2.17	0.88
1:J:541:MET:CB	4:W:143:TYR:OH	2.20	0.88
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.53	0.88
1:M:215:GLN:H	1:M:340:ILE:CG1	1.72	0.88
1:S:534:SER:HA	4:2:350:SER:O	1.71	0.88
1:S:642:LYS:CG	4:2:21:PHE:O	2.22	0.88
1:S:817:GLN:HG2	2:T:127:ARG:CB	2.03	0.88
2:B:137:TRP:HA	2:B:145:ALA:HB2	1.54	0.88
1:D:635:GLY:CA	4:9:341:ILE:HD13	2.03	0.88
1:G:629:GLU:HG2	1:G:643:GLY:O	1.72	0.88
1:J:640:LYS:C	4:W:23:GLY:O	2.15	0.88
1:J:649:VAL:HG12	1:J:649:VAL:C	1.98	0.88
1:J:838:ILE:HD11	2:K:54:MET:HE3	0.89	0.88
2:T:121:LEU:CA	2:T:128:PHE:CB	2.46	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:322:PRO:CB	4:3:244:ASP:HB3	2.02	0.88
1:D:541:MET:CB	4:9:143:TYR:OH	2.20	0.88
1:D:553:MLY:CG	4:W:44:MET:O	2.20	0.88
1:G:728:ASN:OD1	3:I:114:LEU:HG	1.74	0.88
1:J:599:ASN:OD1	1:J:649:VAL:HB	1.73	0.88
1:J:642:LYS:HG2	4:W:22:ALA:CA	2.03	0.88
1:S:797:PHE:CE1	3:U:146:ILE:HA	2.07	0.88
1:A:505:MLY:HG3	1:A:741:LYS:HZ2	1.35	0.88
1:A:538:GLU:O	4:8:349:LEU:CG	2.20	0.88
1:A:599:ASN:OD1	1:A:649:VAL:HB	1.72	0.88
1:A:642:LYS:CG	4:8:21:PHE:O	2.22	0.88
1:D:836:PHE:CE1	2:E:159:HIS:CB	2.52	0.88
1:G:821:ARG:HH22	2:H:127:ARG:HG2	0.81	0.88
1:J:629:GLU:HG2	1:J:643:GLY:O	1.72	0.88
1:J:642:LYS:CG	4:W:21:PHE:O	2.22	0.88
2:N:137:TRP:HA	2:N:145:ALA:CB	2.04	0.88
1:S:206:LYS:CD	1:S:217:THR:CG2	2.16	0.88
1:S:530:MET:N	4:2:354:GLN:HB3	1.87	0.88
2:T:137:TRP:HA	2:T:145:ALA:CB	2.04	0.88
4:2:112:PRO:CG	4:3:197:GLY:H	1.76	0.88
1:A:792:ALA:HB2	3:C:42:THR:CG2	2.04	0.88
1:D:819:ASN:N	2:E:90:GLY:O	2.06	0.88
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.88
1:J:820:VAL:HG13	2:K:136:MET:HE1	1.54	0.88
1:M:541:MET:CB	4:Z:143:TYR:OH	2.20	0.88
1:M:630:ALA:C	4:Z:25:ASP:OD2	2.15	0.88
1:S:735:GLY:C	1:S:743:ALA:HB2	1.82	0.88
1:D:641:LYS:HD2	4:9:348:SER:CB	2.02	0.88
1:D:649:VAL:HG12	1:D:649:VAL:C	1.98	0.88
1:G:640:LYS:C	4:V:23:GLY:O	2.16	0.88
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	0.88
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.19	0.88
1:M:798:LEU:CD1	3:O:126:LEU:HD11	2.04	0.88
1:S:642:LYS:HG2	4:2:22:ALA:CA	2.03	0.88
1:S:839:MLY:CH1	2:T:159:HIS:HD2	1.87	0.88
4:3:324:THR:OG1	4:5:244:ASP:N	1.96	0.88
4:X:324:THR:CB	4:Z:246:GLN:HA	2.03	0.88
1:A:541:MET:CB	4:8:143:TYR:OH	2.20	0.88
1:D:642:LYS:HG2	4:9:22:ALA:CA	2.04	0.88
2:E:137:TRP:HA	2:E:145:ALA:CB	2.03	0.88
1:G:641:LYS:HD2	4:V:348:SER:CB	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	0.88
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	0.88
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.56	0.88
3:L:139:TYR:HA	3:L:142:PHE:HB3	1.56	0.88
1:M:215:GLN:H	1:M:340:ILE:HG12	1.05	0.88
1:M:635:GLY:HA2	4:Z:334:GLU:CG	2.03	0.88
1:M:641:LYS:CD	1:M:647:GLN:OE1	2.18	0.88
1:S:215:GLN:H	1:S:340:ILE:HG12	1.05	0.88
1:S:538:GLU:N	4:2:349:LEU:HD12	1.86	0.88
3:U:24:LYS:HB3	3:U:63:ILE:O	1.72	0.88
1:A:93:MET:CG	1:A:715:VAL:HG22	2.02	0.87
2:E:121:LEU:CB	2:E:128:PHE:HB3	1.69	0.87
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.87
1:G:646:PHE:CE2	1:G:652:LEU:CD1	2.58	0.87
1:J:641:LYS:HD2	4:W:348:SER:CB	2.03	0.87
1:M:649:VAL:HG12	1:M:649:VAL:C	1.98	0.87
1:S:599:ASN:OD1	1:S:649:VAL:HB	1.73	0.87
1:S:635:GLY:HA2	4:2:334:GLU:CG	2.03	0.87
1:S:786:ILE:O	1:S:789:ALA:CA	2.21	0.87
1:A:97:LEU:HD22	1:A:712:PRO:CB	2.03	0.87
1:J:646:PHE:CE2	1:J:652:LEU:CD1	2.58	0.87
1:J:769:ALA:CB	1:J:770:GLY:CA	2.51	0.87
1:M:642:LYS:CG	4:Z:21:PHE:O	2.22	0.87
1:M:646:PHE:CE2	1:M:652:LEU:CD1	2.58	0.87
1:M:819:ASN:HA	2:N:90:GLY:C	1.98	0.87
1:S:736:GLN:HA	1:S:743:ALA:HB2	1.51	0.87
4:4:287:ILE:HG21	4:6:202:THR:OG1	1.75	0.87
1:G:752:ASP:OD1	1:G:783:LEU:HB2	1.74	0.87
1:G:795:ARG:CG	3:I:118:MET:CE	2.04	0.87
1:M:795:ARG:NH2	3:O:116:GLU:CG	2.37	0.87
1:S:649:VAL:HG12	1:S:649:VAL:C	1.98	0.87
4:2:287:ILE:CG2	4:4:203:THR:CG2	2.50	0.87
1:A:798:LEU:HD11	3:C:126:LEU:CD1	2.04	0.87
1:D:506:GLU:OE2	1:D:764:MLY:CH2	2.22	0.87
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.81	0.87
1:G:754:ASP:N	1:G:776:GLU:OE1	1.85	0.87
1:J:553:MLY:NZ	4:Y:45:VAL:HG11	1.88	0.87
1:M:817:GLN:HG2	2:N:127:ARG:CD	2.03	0.87
1:S:639:GLY:CA	4:2:344:SER:C	2.48	0.87
1:S:751:GLY:CA	3:U:86:ASP:OD1	2.22	0.87
1:A:72:VAL:CG1	1:A:76:GLN:HB3	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.87
2:B:111:SER:OG	2:B:148:VAL:C	2.15	0.87
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.87
1:J:538:GLU:N	4:W:349:LEU:HD12	1.86	0.87
1:M:720:PHE:CD1	1:M:772:LEU:CD2	2.56	0.87
2:T:137:TRP:HA	2:T:145:ALA:HB2	1.53	0.87
4:1:322:PRO:CB	4:3:244:ASP:CB	2.52	0.87
1:A:505:MLY:CB	1:A:762:HIS:H	1.87	0.87
1:A:557:GLU:H	4:V:48:GLY:HA3	1.28	0.87
2:B:137:TRP:HA	2:B:145:ALA:CB	2.04	0.87
3:C:139:TYR:HA	3:C:142:PHE:HB3	1.56	0.87
1:D:642:LYS:CG	4:9:21:PHE:O	2.22	0.87
1:G:72:VAL:CG1	1:G:76:GLN:HB3	2.05	0.87
1:G:755:HIS:HA	1:G:758:TYR:CE1	2.10	0.87
1:G:792:ALA:HB2	3:I:42:THR:HG22	1.03	0.87
1:J:553:MLY:CH1	4:Y:45:VAL:CG1	2.49	0.87
1:J:813:ILE:CG2	2:K:128:PHE:CE1	2.57	0.87
1:M:639:GLY:CA	4:Z:344:SER:C	2.48	0.87
1:M:732:ILE:HG23	1:M:747:LEU:HB2	1.57	0.87
1:M:798:LEU:HD22	3:O:126:LEU:HD11	1.57	0.87
1:S:292:MET:HE1	1:S:309:PRO:CA	2.05	0.87
1:S:502:GLU:CD	1:S:761:GLY:CA	2.47	0.87
1:S:797:PHE:CE1	3:U:149:VAL:CG1	2.57	0.87
4:3:324:THR:OG1	4:5:244:ASP:CB	2.22	0.87
4:4:324:THR:OG1	4:6:244:ASP:CB	2.22	0.87
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.87
3:F:24:LYS:HB3	3:F:63:ILE:O	1.72	0.87
1:G:503:TYR:OH	1:G:711:PHE:CD2	2.23	0.87
1:G:556:ASP:CG	4:X:47:MET:HE2	1.84	0.87
1:J:641:LYS:CD	1:J:647:GLN:OE1	2.18	0.87
1:J:797:PHE:HE2	3:L:126:LEU:HD13	1.39	0.87
1:J:830:PRO:CB	2:K:67:MET:HE2	2.05	0.87
1:A:822:SER:CB	2:B:88:LEU:HD23	2.04	0.87
1:D:72:VAL:CG1	1:D:76:GLN:HB3	2.05	0.87
1:D:549:SER:O	4:W:46:GLY:C	2.18	0.87
1:D:649:VAL:CG1	1:D:649:VAL:CA	2.53	0.87
1:D:712:PRO:HB2	1:D:771:LEU:HB3	1.54	0.87
1:G:538:GLU:N	4:V:349:LEU:HD12	1.87	0.87
1:G:541:MET:CB	4:V:143:TYR:OH	2.21	0.87
1:G:646:PHE:CD2	1:G:652:LEU:HD11	2.09	0.87
1:G:649:VAL:CG1	1:G:649:VAL:CA	2.53	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:137:TRP:HA	2:K:145:ALA:CB	2.04	0.87
1:M:72:VAL:CG1	1:M:76:GLN:HB3	2.05	0.87
1:S:731:ALA:HB1	3:U:93:VAL:CB	2.05	0.87
1:A:831:TRP:NE1	2:B:51:PHE:CE2	2.42	0.87
1:G:641:LYS:CD	1:G:647:GLN:OE1	2.17	0.87
1:G:752:ASP:C	1:G:780:ASP:OD1	2.17	0.87
2:K:121:LEU:CA	2:K:128:PHE:CB	2.46	0.87
1:M:91:MET:HE3	1:M:119:SER:HB2	1.57	0.87
1:M:549:SER:O	4:2:46:GLY:C	2.18	0.87
1:S:546:THR:CG2	4:4:46:GLY:O	2.23	0.87
1:A:635:GLY:HA2	4:8:334:GLU:CG	2.03	0.86
1:A:649:VAL:CG1	1:A:649:VAL:CA	2.53	0.86
2:E:111:SER:OG	2:E:148:VAL:C	2.15	0.86
1:M:292:MET:HE1	1:M:309:PRO:CA	2.05	0.86
1:A:639:GLY:CA	4:8:344:SER:C	2.48	0.86
1:A:797:PHE:CE1	3:C:146:ILE:CA	2.55	0.86
1:A:797:PHE:CE2	3:C:146:ILE:CD1	2.58	0.86
2:K:111:SER:OG	2:K:148:VAL:C	2.15	0.86
1:A:91:MET:HE3	1:A:119:SER:HB2	1.57	0.86
1:A:798:LEU:CD1	3:C:126:LEU:CD2	2.33	0.86
1:D:723:ARG:NH2	1:D:779:ARG:NH2	2.23	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
1:S:646:PHE:CE2	1:S:652:LEU:CD1	2.58	0.86
1:S:791:GLN:NE2	3:U:116:GLU:H	1.73	0.86
4:1:244:ASP:CG	4:Y:325:MET:HE1	2.00	0.86
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	0.86
1:D:292:MET:HE1	1:D:309:PRO:CA	2.05	0.86
1:G:91:MET:HE3	1:G:119:SER:HB2	1.57	0.86
1:G:292:MET:HE1	1:G:309:PRO:CA	2.05	0.86
2:H:137:TRP:HA	2:H:145:ALA:CB	2.04	0.86
1:J:553:MLY:CE	4:Y:45:VAL:HB	1.91	0.86
1:M:95:THR:HG1	1:M:770:GLY:N	1.73	0.86
1:M:649:VAL:CG1	1:M:649:VAL:CA	2.53	0.86
1:M:817:GLN:CB	2:N:127:ARG:HH11	1.88	0.86
1:S:546:THR:OG1	4:4:46:GLY:CA	2.21	0.86
4:W:286:ASP:OD1	4:Y:203:THR:HG22	1.74	0.86
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	0.86
1:D:735:GLY:C	1:D:743:ALA:HB1	1.84	0.86
1:G:707:CYS:SG	1:G:714:ARG:NH1	2.48	0.86
1:J:829:TRP:CZ2	2:K:87:LYS:CE	2.55	0.86
1:M:783:LEU:HB3	1:M:786:ILE:HD12	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:646:PHE:CD2	1:S:652:LEU:HD11	2.09	0.86
4:1:287:ILE:HG12	4:3:202:THR:HA	1.57	0.86
1:G:635:GLY:HA2	4:V:334:GLU:CG	2.03	0.86
1:S:206:LYS:HD3	1:S:217:THR:CB	2.06	0.86
1:S:649:VAL:CG1	1:S:649:VAL:CA	2.53	0.86
3:U:139:TYR:HA	3:U:142:PHE:HB3	1.56	0.86
1:A:206:LYS:HD3	1:A:217:THR:CB	2.06	0.86
1:D:646:PHE:CD2	1:D:652:LEU:HD11	2.09	0.86
1:D:798:LEU:HD13	3:F:126:LEU:CD1	1.99	0.86
3:F:139:TYR:HA	3:F:142:PHE:HB3	1.56	0.86
1:G:639:GLY:CA	4:V:344:SER:C	2.49	0.86
1:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.86
1:M:795:ARG:HH22	3:O:116:GLU:HB3	1.40	0.86
1:M:821:ARG:HH22	2:N:127:ARG:HG2	1.37	0.86
1:M:838:ILE:HD11	2:N:54:MET:HE1	1.57	0.86
1:S:91:MET:HE3	1:S:119:SER:HB2	1.57	0.86
1:S:530:MET:HG2	4:2:354:GLN:CG	2.05	0.86
1:S:725:ARG:CZ	1:S:733:PRO:HB3	2.06	0.86
4:2:112:PRO:HG2	4:3:197:GLY:H	1.26	0.86
4:8:287:ILE:CG2	4:V:205:GLU:HG2	2.05	0.86
1:J:757:GLN:CA	1:J:776:GLU:HG3	2.03	0.86
1:M:206:LYS:HD3	1:M:217:THR:CB	2.06	0.86
1:A:646:PHE:CD2	1:A:652:LEU:HD11	2.10	0.86
1:D:91:MET:HE3	1:D:119:SER:HB2	1.57	0.86
1:G:817:GLN:CG	2:H:127:ARG:HD2	2.05	0.86
1:J:310:TYR:CZ	1:J:320:ILE:HD11	2.11	0.86
1:M:793:ARG:HH11	3:O:40:ASN:HD22	1.14	0.86
1:S:783:LEU:CA	1:S:786:ILE:CG1	2.36	0.86
1:S:795:ARG:HG2	3:U:118:MET:SD	2.14	0.86
1:S:836:PHE:CE2	2:T:160:GLY:N	2.41	0.86
4:1:203:THR:HG22	4:Y:286:ASP:OD1	1.74	0.86
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.86
1:G:148:ARG:HH21	1:G:764:MLY:CH2	1.89	0.86
1:G:206:LYS:HD3	1:G:217:THR:CB	2.06	0.86
1:G:795:ARG:CZ	3:I:116:GLU:CB	2.54	0.86
1:J:292:MET:HE1	1:J:309:PRO:CA	2.05	0.86
1:J:646:PHE:CD2	1:J:652:LEU:HD11	2.10	0.86
1:M:797:PHE:CE2	3:O:126:LEU:HD22	2.11	0.86
1:S:709:LYS:O	1:S:710:GLY:CA	2.23	0.86
1:S:821:ARG:NH2	2:T:127:ARG:CG	2.37	0.86
4:4:288:ASP:OD1	4:6:203:THR:HG23	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.56	0.85
1:G:310:TYR:CZ	1:G:320:ILE:HD11	2.11	0.85
1:G:538:GLU:N	4:V:351:THR:N	2.24	0.85
1:G:732:ILE:HG23	1:G:747:LEU:HB2	1.57	0.85
1:J:639:GLY:CA	4:W:344:SER:C	2.48	0.85
1:J:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.85
1:M:538:GLU:N	4:Z:351:THR:N	2.24	0.85
1:M:646:PHE:CD2	1:M:652:LEU:HD11	2.09	0.85
1:M:755:HIS:HA	1:M:758:TYR:CE1	2.10	0.85
2:N:111:SER:OG	2:N:148:VAL:C	2.15	0.85
4:1:288:ASP:N	4:3:203:THR:HG22	1.90	0.85
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.85
4:W:325:MET:HE1	4:Y:244:ASP:CG	2.00	0.85
1:D:530:MET:HG2	4:9:354:GLN:CG	2.05	0.85
1:D:709:LYS:C	1:D:710:GLY:HA2	2.01	0.85
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	0.85
1:G:534:SER:O	4:V:351:THR:HG23	1.12	0.85
1:G:557:GLU:HB2	4:X:46:GLY:C	2.00	0.85
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.85
1:J:94:MET:O	1:J:713:SER:CA	2.23	0.85
1:M:530:MET:HG2	4:Z:354:GLN:CG	2.06	0.85
1:M:599:ASN:OD1	1:M:649:VAL:CA	2.25	0.85
1:S:310:TYR:CZ	1:S:320:ILE:HD11	2.11	0.85
4:1:287:ILE:CG1	4:3:202:THR:HA	2.05	0.85
4:4:324:THR:HG23	4:6:244:ASP:CA	2.01	0.85
1:G:797:PHE:CE1	3:I:146:ILE:HG23	2.10	0.85
1:J:215:GLN:H	1:J:340:ILE:HG12	1.05	0.85
1:M:84:MLY:HH12	1:M:715:VAL:HG13	1.57	0.85
1:M:797:PHE:CE1	3:O:149:VAL:HG11	2.10	0.85
3:O:139:TYR:HA	3:O:142:PHE:HB3	1.56	0.85
1:A:755:HIS:HA	1:A:758:TYR:CE1	2.10	0.85
1:A:768:MLY:HB3	1:A:771:LEU:HB2	0.89	0.85
1:G:599:ASN:OD1	1:G:649:VAL:CA	2.25	0.85
1:M:753:VAL:HG13	1:M:775:LEU:HD11	1.57	0.85
1:M:803:TYR:CD2	3:O:17:PHE:CZ	2.65	0.85
1:S:72:VAL:CG1	1:S:76:GLN:HB3	2.05	0.85
1:S:752:ASP:N	1:S:779:ARG:NH2	2.24	0.85
1:A:502:GLU:CD	1:A:764:MLY:N	2.34	0.85
1:A:795:ARG:HH21	3:C:116:GLU:CG	1.88	0.85
1:G:553:MLY:HH12	4:X:45:VAL:HG11	1.58	0.85
1:M:204:GLU:H	1:M:207:LYS:HE3	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:310:TYR:CZ	1:M:320:ILE:HD11	2.11	0.85
1:M:797:PHE:CE2	3:O:126:LEU:CD2	2.59	0.85
1:S:410:ASN:OD1	4:2:334:GLU:CA	2.24	0.85
1:S:793:ARG:CD	3:U:40:ASN:ND2	2.38	0.85
1:A:97:LEU:HD22	1:A:712:PRO:HB3	1.57	0.85
1:A:599:ASN:OD1	1:A:649:VAL:CA	2.25	0.85
1:D:599:ASN:OD1	1:D:649:VAL:CA	2.25	0.85
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	0.85
1:G:567:LYS:HZ3	4:X:92:ASN:ND2	1.73	0.85
1:J:769:ALA:HB2	1:J:770:GLY:CA	2.06	0.85
1:J:839:MLY:HH21	2:K:158:THR:CG2	2.07	0.85
1:M:84:MLY:HH21	1:M:719:ASP:O	1.75	0.85
1:S:204:GLU:H	1:S:207:LYS:HE3	1.42	0.85
1:S:599:ASN:OD1	1:S:649:VAL:CA	2.25	0.85
1:S:728:ASN:OD1	3:U:90:GLY:HA3	1.74	0.85
1:S:795:ARG:CB	3:U:35:ARG:NH2	2.40	0.85
4:2:205:GLU:HG2	4:Z:287:ILE:CG2	2.05	0.85
1:D:732:ILE:CG2	1:D:747:LEU:HD13	1.34	0.85
1:D:834:LEU:CD1	2:E:54:MET:CB	2.52	0.85
1:G:732:ILE:CG2	1:G:747:LEU:HD13	1.34	0.85
1:J:202:SER:HA	1:J:207:LYS:HE2	0.85	0.85
1:A:310:TYR:CZ	1:A:320:ILE:HD11	2.11	0.85
1:A:530:MET:HG2	4:8:354:GLN:CG	2.05	0.85
2:B:121:LEU:CA	2:B:128:PHE:CB	2.46	0.85
1:D:202:SER:HA	1:D:207:LYS:HE2	0.85	0.85
1:D:215:GLN:H	1:D:340:ILE:HG12	1.06	0.85
2:E:163:ALA:O	2:K:21:GLU:N	2.09	0.85
3:I:139:TYR:HA	3:I:142:PHE:HB3	1.56	0.85
1:J:91:MET:HE3	1:J:119:SER:HB2	1.57	0.85
1:M:410:ASN:OD1	4:Z:334:GLU:CA	2.24	0.85
1:M:785:GLU:O	1:M:788:THR:N	2.09	0.85
1:M:798:LEU:CD2	3:O:122:GLU:HB3	2.07	0.85
1:S:755:HIS:HA	1:S:758:TYR:CE1	2.10	0.85
1:S:817:GLN:HG2	2:T:127:ARG:CG	2.07	0.85
1:S:819:ASN:ND2	2:T:92:ASP:CB	2.39	0.85
4:2:287:ILE:HG21	4:4:203:THR:H	1.41	0.85
4:3:287:ILE:HG21	4:5:202:THR:OG1	1.74	0.85
1:A:292:MET:HE1	1:A:309:PRO:CA	2.05	0.85
1:A:732:ILE:HG23	1:A:747:LEU:HB2	1.58	0.85
1:D:204:GLU:H	1:D:207:LYS:HE3	1.42	0.85
1:G:410:ASN:CG	4:V:334:GLU:CA	2.47	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:530:MET:HG2	4:V:354:GLN:CG	2.05	0.85
1:G:792:ALA:HB2	3:I:42:THR:HA	1.57	0.85
1:J:529:PRO:CB	4:W:353:GLN:OE1	2.25	0.85
1:M:35:MLY:HE2	1:M:777:GLU:OE2	1.75	0.85
1:M:783:LEU:CD1	1:M:786:ILE:HD11	2.06	0.85
1:S:797:PHE:CD1	3:U:146:ILE:O	2.29	0.85
1:A:646:PHE:CE2	1:A:652:LEU:CD1	2.58	0.85
1:A:817:GLN:HG3	2:B:127:ARG:CD	2.05	0.85
1:D:725:ARG:CD	1:D:733:PRO:HB3	2.07	0.85
1:J:410:ASN:ND2	4:W:336:LYS:HG2	1.92	0.85
1:J:725:ARG:CD	1:J:733:PRO:HB3	2.07	0.85
1:J:732:ILE:HG23	1:J:747:LEU:HB2	1.57	0.85
1:M:95:THR:HA	1:M:713:SER:OG	1.77	0.85
1:M:549:SER:O	4:2:46:GLY:HA3	1.77	0.85
1:S:548:THR:O	4:4:49:GLN:N	2.06	0.85
1:S:735:GLY:C	1:S:743:ALA:HB1	1.84	0.85
4:X:286:ASP:OD1	4:Z:202:THR:OG1	1.95	0.85
4:X:287:ILE:CG2	4:Z:201:VAL:HG23	2.06	0.85
1:A:640:LYS:CB	1:A:645:SER:OG	2.25	0.84
1:A:800:ARG:HB3	3:C:149:VAL:HG22	0.88	0.84
1:D:823:PHE:HE1	2:E:160:GLY:HA2	1.36	0.84
1:G:95:THR:HA	1:G:713:SER:CB	2.06	0.84
1:J:204:GLU:H	1:J:207:LYS:HE3	1.42	0.84
1:J:206:LYS:HD3	1:J:217:THR:CB	2.06	0.84
1:J:530:MET:HG2	4:W:354:GLN:CG	2.06	0.84
1:J:756:THR:HG21	1:J:776:GLU:CA	2.07	0.84
1:S:538:GLU:N	4:2:351:THR:N	2.24	0.84
1:A:202:SER:HA	1:A:207:LYS:HE2	0.85	0.84
1:A:725:ARG:CD	1:A:733:PRO:HB3	2.07	0.84
1:A:795:ARG:CG	3:C:35:ARG:HH12	1.90	0.84
1:D:639:GLY:CA	4:9:344:SER:C	2.48	0.84
1:D:732:ILE:CD1	1:D:782:MLY:CH2	2.54	0.84
1:D:736:GLN:HA	1:D:743:ALA:HB2	1.51	0.84
1:G:752:ASP:O	1:G:780:ASP:CA	2.20	0.84
1:G:754:ASP:O	1:G:776:GLU:OE1	1.94	0.84
1:G:813:ILE:CG2	2:H:128:PHE:CE1	2.60	0.84
1:G:817:GLN:CD	2:H:127:ARG:CD	2.50	0.84
1:S:731:ALA:O	3:U:93:VAL:CG1	2.24	0.84
4:1:287:ILE:HB	4:3:203:THR:H	1.38	0.84
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.84
1:A:800:ARG:NH2	3:C:40:ASN:HD21	1.75	0.84

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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	0.84
1:M:84:MLY:HH12	1:M:715:VAL:HG22	1.57	0.84
1:S:709:LYS:C	1:S:710:GLY:N	2.35	0.84
1:S:829:TRP:CH2	2:T:87:LYS:CE	2.61	0.84
4:7:287:ILE:CG2	4:9:205:GLU:HG2	2.05	0.84
1:D:410:ASN:ND2	4:9:336:LYS:HG2	1.93	0.84
1:D:834:LEU:CD1	2:E:54:MET:CG	2.16	0.84
1:D:834:LEU:HD21	2:E:54:MET:CE	2.05	0.84
1:G:538:GLU:HG3	4:V:351:THR:C	2.02	0.84
1:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	0.84
1:J:710:GLY:C	1:J:772:LEU:HD23	2.01	0.84
1:J:831:TRP:HH2	2:K:47:LEU:CD2	1.82	0.84
1:S:732:ILE:HG23	1:S:747:LEU:HB2	1.57	0.84
4:2:287:ILE:HG12	4:4:203:THR:N	1.93	0.84
4:3:287:ILE:CB	4:5:202:THR:CB	2.33	0.84
1:A:538:GLU:N	4:8:351:THR:N	2.24	0.84
1:A:543:PRO:HG3	4:8:143:TYR:O	1.77	0.84
1:D:543:PRO:HG3	4:9:143:TYR:O	1.77	0.84
1:J:820:VAL:CG1	2:K:136:MET:CE	2.48	0.84
1:M:735:GLY:C	1:M:743:ALA:HB2	1.82	0.84
1:S:795:ARG:HH12	3:U:43:ASN:HB2	1.05	0.84
4:3:288:ASP:OD1	4:5:203:THR:HG23	1.76	0.84
1:G:95:THR:CA	1:G:713:SER:HB3	2.07	0.84
1:J:538:GLU:N	4:W:351:THR:N	2.24	0.84
1:J:732:ILE:CG2	1:J:747:LEU:HD13	1.34	0.84
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	0.84
3:U:50:LEU:C	3:U:53:PRO:HD2	2.03	0.84
1:A:410:ASN:OD1	4:8:334:GLU:CA	2.24	0.84
1:A:549:SER:O	4:V:46:GLY:HA3	1.77	0.84
1:A:648:THR:CG2	1:A:651:ALA:HB2	2.08	0.84
1:D:85:TYR:OH	1:D:772:LEU:HD22	1.77	0.84
1:D:732:ILE:HG23	1:D:747:LEU:HB2	1.57	0.84
1:J:410:ASN:OD1	4:W:334:GLU:CA	2.24	0.84
2:K:121:LEU:CG	2:K:128:PHE:CA	2.48	0.84
2:K:141:PRO:CB	2:K:142:PRO:CD	2.56	0.84
1:A:94:MET:O	1:A:713:SER:HB3	1.78	0.84
1:D:646:PHE:CE2	1:D:652:LEU:CD1	2.57	0.84
1:G:553:MLY:CH1	4:X:45:VAL:CG1	2.49	0.84
1:G:754:ASP:HA	1:G:779:ARG:NE	1.92	0.84
1:J:769:ALA:HB3	1:J:770:GLY:HA2	1.59	0.84
1:M:648:THR:CG2	1:M:651:ALA:HB2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:543:PRO:HG3	4:2:143:TYR:O	1.77	0.84
4:1:322:PRO:HB3	4:3:244:ASP:HB3	1.60	0.84
1:A:800:ARG:HH22	3:C:40:ASN:ND2	1.76	0.84
1:D:599:ASN:OD1	1:D:649:VAL:HB	1.73	0.84
1:D:727:LEU:HB2	1:D:782:MLY:CE	2.07	0.84
1:D:732:ILE:HD13	1:D:782:MLY:CH1	2.06	0.84
1:D:769:ALA:C	1:D:774:LEU:CB	2.48	0.84
1:G:730:SER:HG	3:I:113:THR:HG21	1.41	0.84
4:7:286:ASP:OD1	4:9:203:THR:CG2	2.26	0.84
4:Y:237:GLU:HA	4:Y:251:GLY:HA2	1.60	0.84
1:A:204:GLU:H	1:A:207:LYS:HE3	1.42	0.84
1:A:279:LEU:HB2	1:A:282:GLU:HG3	1.60	0.84
1:D:529:PRO:CB	4:9:353:GLN:OE1	2.25	0.84
1:G:757:GLN:CG	1:G:776:GLU:CD	2.45	0.84
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.84
1:J:279:LEU:HB2	1:J:282:GLU:HG3	1.60	0.84
1:S:410:ASN:ND2	4:2:336:LYS:HG2	1.92	0.84
1:S:732:ILE:HG21	1:S:747:LEU:HD13	0.91	0.84
1:S:819:ASN:HA	2:T:90:GLY:C	2.02	0.84
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.84
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	0.83
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.83
1:D:410:ASN:CG	4:9:334:GLU:CA	2.47	0.83
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.58	0.83
1:D:820:VAL:CG1	2:E:136:MET:HE1	2.07	0.83
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.83
1:J:796:GLY:HA2	3:L:35:ARG:CD	2.08	0.83
1:M:279:LEU:HB2	1:M:282:GLU:HG3	1.60	0.83
1:M:542:PHE:CA	4:Z:143:TYR:CE1	2.61	0.83
1:M:736:GLN:HA	1:M:743:ALA:HB2	1.51	0.83
2:N:144:VAL:HG13	2:N:153:ILE:HD11	1.21	0.83
1:S:753:VAL:HG13	1:S:779:ARG:NE	1.93	0.83
1:S:831:TRP:HE1	2:T:67:MET:HB3	1.42	0.83
4:4:288:ASP:H	4:6:203:THR:HG22	1.41	0.83
4:6:237:GLU:HA	4:6:251:GLY:HA2	1.60	0.83
4:V:325:MET:HE1	4:X:244:ASP:CG	2.00	0.83
1:D:542:PHE:CA	4:9:143:TYR:CE1	2.61	0.83
1:G:202:SER:HA	1:G:207:LYS:HE2	0.85	0.83
1:J:410:ASN:CG	4:W:334:GLU:CA	2.47	0.83
1:J:542:PHE:CA	4:W:143:TYR:CE1	2.61	0.83
1:M:410:ASN:ND2	4:Z:336:LYS:HG2	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:218:LEU:HB3	1:S:221:GLN:HG3	1.61	0.83
1:S:279:LEU:HB2	1:S:282:GLU:HG3	1.60	0.83
1:S:795:ARG:NE	3:U:116:GLU:HB3	1.93	0.83
4:7:237:GLU:HA	4:7:251:GLY:HA2	1.60	0.83
4:9:237:GLU:HA	4:9:251:GLY:HA2	1.60	0.83
4:9:286:ASP:OD1	4:W:203:THR:CG2	2.26	0.83
4:9:287:ILE:CG2	4:W:205:GLU:HG2	2.05	0.83
4:W:237:GLU:HA	4:W:251:GLY:HA2	1.60	0.83
1:A:643:GLY:N	4:8:24:ASP:HA	1.93	0.83
1:D:538:GLU:N	4:9:351:THR:N	2.24	0.83
1:G:648:THR:CG2	1:G:651:ALA:HB2	2.08	0.83
1:G:725:ARG:CD	1:G:733:PRO:HB3	2.08	0.83
1:J:791:GLN:NE2	3:L:115:GLY:CA	2.42	0.83
1:J:839:MLY:HH13	2:K:159:HIS:HD2	1.41	0.83
1:A:732:ILE:CG2	1:A:747:LEU:HD13	1.34	0.83
1:G:410:ASN:OD1	4:V:334:GLU:CA	2.24	0.83
1:G:529:PRO:CB	4:V:353:GLN:OE1	2.25	0.83
1:G:795:ARG:HH21	3:I:116:GLU:CG	1.77	0.83
1:J:819:ASN:CG	2:K:92:ASP:CB	2.48	0.83
1:M:725:ARG:CD	1:M:733:PRO:HB3	2.08	0.83
1:M:797:PHE:CE1	3:O:149:VAL:HG12	2.13	0.83
1:M:803:TYR:CD2	3:O:17:PHE:HZ	1.96	0.83
1:S:640:LYS:CB	1:S:645:SER:OG	2.25	0.83
1:S:770:GLY:O	1:S:771:LEU:O	1.94	0.83
1:A:502:GLU:O	1:A:761:GLY:CA	2.26	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:410:ASN:OD1	4:9:334:GLU:CA	2.24	0.83
1:D:418:THR:HB	1:D:421:GLU:HG3	1.59	0.83
1:D:507:GLY:HA3	1:D:762:HIS:CD2	2.14	0.83
1:D:813:ILE:CG2	2:E:128:PHE:HE1	1.71	0.83
2:H:141:PRO:CB	2:H:142:PRO:CD	2.56	0.83
1:J:557:GLU:HB2	4:Y:46:GLY:C	2.00	0.83
1:J:648:THR:CG2	1:J:651:ALA:HB2	2.08	0.83
1:M:725:ARG:CZ	1:M:733:PRO:HB3	2.06	0.83
4:2:287:ILE:HB	4:4:203:THR:HG21	1.59	0.83
1:A:542:PHE:CA	4:8:143:TYR:CE1	2.61	0.83
1:A:553:MLY:HG2	4:V:47:MET:H	1.44	0.83
1:D:831:TRP:NE1	2:E:51:PHE:HZ	1.76	0.83
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	0.83
1:J:730:SER:O	1:J:734:GLU:HG3	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	2.14	0.83
1:M:720:PHE:CE1	1:M:772:LEU:HD22	1.90	0.83
1:S:529:PRO:CB	4:2:353:GLN:OE1	2.25	0.83
1:S:542:PHE:CA	4:2:143:TYR:CE1	2.61	0.83
1:S:749:GLY:HA3	3:U:93:VAL:CG2	2.09	0.83
4:1:287:ILE:CG2	4:3:202:THR:OG1	2.23	0.83
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.83
1:A:707:CYS:HA	1:A:714:ARG:HH12	1.39	0.83
1:D:629:GLU:CG	1:D:643:GLY:O	2.26	0.83
1:D:648:THR:CG2	1:D:651:ALA:HB2	2.08	0.83
1:D:730:SER:O	1:D:734:GLU:HG3	1.78	0.83
1:G:410:ASN:ND2	4:V:336:LYS:HG2	1.92	0.83
1:G:754:ASP:CG	1:G:776:GLU:HA	2.03	0.83
1:J:538:GLU:HG3	4:W:351:THR:C	2.03	0.83
1:J:641:LYS:HG2	1:J:647:GLN:HG3	1.61	0.83
1:J:756:THR:HG22	1:J:776:GLU:CB	2.08	0.83
1:M:629:GLU:CG	1:M:643:GLY:O	2.26	0.83
1:M:783:LEU:HG	1:M:786:ILE:CG1	2.08	0.83
1:S:530:MET:CG	4:2:354:GLN:CB	2.30	0.83
4:1:287:ILE:CD1	4:3:203:THR:H	1.92	0.83
4:2:287:ILE:HG22	4:4:203:THR:HG22	1.60	0.83
1:G:769:ALA:O	1:G:773:GLY:HA3	1.79	0.83
1:J:629:GLU:CG	1:J:643:GLY:O	2.26	0.83
1:M:529:PRO:CB	4:Z:353:GLN:OE1	2.25	0.83
1:S:202:SER:HA	1:S:207:LYS:HE2	0.85	0.83
1:S:648:THR:CG2	1:S:651:ALA:HB2	2.08	0.83
4:2:203:THR:CG2	4:Z:286:ASP:OD1	2.26	0.83
4:5:237:GLU:HA	4:5:251:GLY:HA2	1.60	0.83
1:G:149:GLN:CG	1:G:763:THR:HG23	2.09	0.83
1:G:542:PHE:CA	4:V:143:TYR:CE1	2.61	0.83
1:G:732:ILE:HG21	1:G:747:LEU:HD13	0.91	0.83
2:H:144:VAL:HG12	2:H:153:ILE:CD1	2.09	0.83
1:S:529:PRO:C	4:2:354:GLN:CB	2.49	0.83
4:1:244:ASP:HB3	4:Y:325:MET:SD	2.19	0.83
4:3:237:GLU:HA	4:3:251:GLY:HA2	1.60	0.83
1:A:769:ALA:O	1:A:772:LEU:N	2.08	0.83
2:B:141:PRO:CB	2:B:142:PRO:CD	2.56	0.83
1:D:218:LEU:HB3	1:D:221:GLN:HG3	1.61	0.83
1:D:549:SER:O	4:W:46:GLY:HA3	1.77	0.83
1:D:836:PHE:CE2	2:E:160:GLY:C	2.57	0.83
1:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:538:GLU:HG3	4:Z:351:THR:C	2.03	0.83
2:N:141:PRO:CB	2:N:142:PRO:CD	2.56	0.83
1:S:725:ARG:CD	1:S:733:PRO:HB3	2.08	0.83
4:4:322:PRO:HB2	4:6:244:ASP:CB	2.08	0.83
4:8:286:ASP:OD1	4:V:203:THR:CG2	2.26	0.83
1:A:838:ILE:HD12	2:B:54:MET:SD	2.19	0.82
1:D:507:GLY:CA	1:D:762:HIS:CG	2.62	0.82
1:J:84:MLY:CH1	1:J:715:VAL:HG11	2.08	0.82
1:J:418:THR:HB	1:J:421:GLU:HG3	1.60	0.82
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.82
1:J:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.82
1:M:819:ASN:CG	2:N:90:GLY:O	2.22	0.82
3:O:50:LEU:C	3:O:53:PRO:HD2	2.03	0.82
1:S:93:MET:CE	1:S:764:MLY:CD	2.45	0.82
1:S:750:GLY:HA2	3:U:89:GLU:HB2	1.60	0.82
1:A:410:ASN:ND2	4:8:336:LYS:HG2	1.93	0.82
2:E:141:PRO:CB	2:E:142:PRO:CD	2.56	0.82
1:G:543:PRO:HG3	4:V:143:TYR:O	1.78	0.82
1:M:97:LEU:HD22	1:M:712:PRO:CB	2.08	0.82
1:S:817:GLN:HG2	2:T:127:ARG:HB2	1.60	0.82
4:1:287:ILE:HG21	4:3:202:THR:CB	2.07	0.82
1:A:798:LEU:HD11	3:C:126:LEU:HD11	1.60	0.82
1:D:640:LYS:CB	1:D:645:SER:OG	2.25	0.82
1:D:799:MET:SD	3:F:32:ASP:CG	2.63	0.82
1:S:629:GLU:CG	1:S:643:GLY:O	2.26	0.82
1:A:798:LEU:HD12	3:C:126:LEU:HD21	1.56	0.82
1:D:542:PHE:CA	4:9:143:TYR:HE1	1.92	0.82
1:J:93:MET:HE2	1:J:764:MLY:HD2	1.60	0.82
1:J:218:LEU:HA	1:J:221:GLN:HG2	1.62	0.82
1:J:506:GLU:OE2	1:J:761:GLY:CA	2.25	0.82
2:K:144:VAL:HG12	2:K:153:ILE:CD1	2.10	0.82
1:M:640:LYS:CB	1:M:645:SER:OG	2.25	0.82
1:S:505:MLY:NZ	1:S:762:HIS:NE2	2.27	0.82
1:S:730:SER:O	1:S:734:GLU:HG3	1.79	0.82
1:S:792:ALA:HB1	3:U:42:THR:HA	1.59	0.82
4:2:287:ILE:HG21	4:4:203:THR:HG22	1.60	0.82
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:G:578:HIS:HB3	1:G:592:ILE:HD12	1.62	0.82
1:J:218:LEU:HD22	1:J:222:ILE:CG1	2.10	0.82
1:J:818:TYR:HE1	2:K:127:ARG:NH2	1.71	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:826:VAL:HG21	2:N:88:LEU:HD21	1.58	0.82
2:T:144:VAL:HG12	2:T:153:ILE:CD1	2.10	0.82
4:4:237:GLU:HA	4:4:251:GLY:HA2	1.60	0.82
1:A:93:MET:CE	1:A:715:VAL:HG13	2.09	0.82
1:A:549:SER:O	4:V:46:GLY:CA	2.27	0.82
1:A:578:HIS:HB3	1:A:592:ILE:HD12	1.62	0.82
1:G:629:GLU:CG	1:G:643:GLY:O	2.26	0.82
1:G:795:ARG:CA	3:I:118:MET:CE	2.58	0.82
1:G:829:TRP:HH2	2:H:83:MET:HE3	1.43	0.82
1:J:756:THR:HG22	1:J:776:GLU:CA	2.09	0.82
1:M:35:MLY:HH22	1:M:777:GLU:HG2	0.85	0.82
1:M:641:LYS:HG2	1:M:647:GLN:HG3	1.61	0.82
1:M:643:GLY:N	4:Z:24:ASP:HA	1.93	0.82
2:T:141:PRO:CB	2:T:142:PRO:CD	2.56	0.82
4:2:110:LEU:O	4:3:195:GLU:HA	1.79	0.82
1:D:218:LEU:HA	1:D:221:GLN:HG2	1.62	0.82
1:G:820:VAL:HG11	2:H:136:MET:HE1	1.62	0.82
1:J:795:ARG:CZ	3:L:116:GLU:OE1	2.27	0.82
1:M:202:SER:HA	1:M:207:LYS:HE2	0.85	0.82
1:M:549:SER:O	4:2:46:GLY:CA	2.27	0.82
1:A:831:TRP:CG	2:B:51:PHE:CZ	2.68	0.82
1:D:218:LEU:HD22	1:D:222:ILE:CG1	2.10	0.82
1:D:549:SER:O	4:W:46:GLY:CA	2.27	0.82
1:D:557:GLU:H	4:W:48:GLY:HA3	1.28	0.82
1:D:799:MET:HE1	3:F:32:ASP:CB	2.09	0.82
1:G:94:MET:O	1:G:713:SER:HA	1.79	0.82
1:G:599:ASN:OD1	1:G:649:VAL:HB	1.72	0.82
1:G:730:SER:O	1:G:734:GLU:HG3	1.79	0.82
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	0.82
1:J:553:MLY:HH12	4:Y:45:VAL:HG11	1.59	0.82
1:J:735:GLY:C	1:J:743:ALA:HB2	1.82	0.82
1:M:786:ILE:C	1:M:787:ILE:CA	2.51	0.82
1:S:793:ARG:HH11	3:U:40:ASN:HD22	0.85	0.82
1:A:410:ASN:CG	4:8:334:GLU:CA	2.48	0.82
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.82
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	0.82
2:E:121:LEU:CG	2:E:128:PHE:CA	2.49	0.82
1:G:640:LYS:CB	1:G:645:SER:OG	2.25	0.82
1:G:817:GLN:CG	2:H:127:ARG:HB2	2.10	0.82
1:J:783:LEU:O	1:J:787:ILE:HB	1.78	0.82
1:S:538:GLU:HG3	4:2:351:THR:C	2.03	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:578:HIS:HB3	1:S:592:ILE:HD12	1.61	0.82
1:S:796:GLY:CA	3:U:35:ARG:CD	2.43	0.82
1:A:730:SER:O	1:A:734:GLU:HG3	1.78	0.82
1:D:599:ASN:CA	1:D:649:VAL:CB	2.53	0.82
1:G:418:THR:HB	1:G:421:GLU:HG3	1.59	0.82
1:J:796:GLY:HA2	3:L:35:ARG:HD3	1.59	0.82
1:M:84:MLY:CH1	1:M:715:VAL:CG2	2.57	0.82
4:1:287:ILE:HB	4:3:203:THR:N	1.93	0.82
4:7:290:ARG:NH1	4:9:202:THR:HG21	1.94	0.82
1:A:28:GLN:NE2	1:A:723:ARG:HH21	1.77	0.81
1:A:218:LEU:HD22	1:A:222:ILE:CG1	2.10	0.81
1:D:823:PHE:CZ	2:E:156:VAL:HG12	2.15	0.81
1:G:218:LEU:HD22	1:G:222:ILE:CG1	2.10	0.81
1:G:578:HIS:HD2	1:G:591:ASN:HA	1.45	0.81
1:G:643:GLY:N	4:V:24:ASP:HA	1.94	0.81
1:J:218:LEU:CA	1:J:221:GLN:HG2	2.10	0.81
1:J:641:LYS:HD2	4:W:348:SER:CA	2.09	0.81
1:M:543:PRO:HG3	4:Z:143:TYR:O	1.77	0.81
1:M:553:MLY:HG2	4:2:47:MET:H	1.44	0.81
1:S:820:VAL:CG1	2:T:136:MET:HE1	2.10	0.81
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.81
1:A:641:LYS:HD2	4:8:348:SER:CA	2.09	0.81
1:A:641:LYS:HG2	1:A:647:GLN:HG3	1.61	0.81
1:A:795:ARG:HG2	3:C:118:MET:CE	2.09	0.81
3:C:50:LEU:C	3:C:53:PRO:HD2	2.03	0.81
1:D:791:GLN:HE22	3:F:116:GLU:N	1.63	0.81
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.81
1:J:84:MLY:CD	1:J:724:TYR:CZ	2.59	0.81
1:J:84:MLY:HH12	1:J:715:VAL:CG1	2.09	0.81
1:J:218:LEU:HB3	1:J:221:GLN:HG3	1.61	0.81
1:J:821:ARG:NH2	2:K:127:ARG:CG	2.42	0.81
1:M:218:LEU:HA	1:M:221:GLN:HG2	1.62	0.81
2:N:121:LEU:CA	2:N:128:PHE:CB	2.46	0.81
1:S:546:THR:HG21	4:4:46:GLY:O	1.80	0.81
1:S:571:ALA:O	1:S:572:LYS:CG	2.28	0.81
1:S:838:ILE:CD1	2:T:54:MET:CE	2.44	0.81
1:A:831:TRP:HH2	2:B:50:THR:HB	1.40	0.81
2:B:121:LEU:CG	2:B:128:PHE:CA	2.48	0.81
2:E:163:ALA:C	2:K:21:GLU:HB3	2.05	0.81
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.61	0.81
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:646:PHE:CE2	1:G:652:LEU:HD21	2.14	0.81
1:G:768:MLY:HH23	1:G:772:LEU:CG	2.05	0.81
1:J:734:GLU:O	1:J:738:MET:CG	2.28	0.81
1:J:791:GLN:OE1	3:L:116:GLU:HG3	1.79	0.81
1:J:829:TRP:CZ3	2:K:84:PHE:CZ	2.68	0.81
1:M:530:MET:CG	4:Z:354:GLN:CB	2.30	0.81
1:M:599:ASN:CA	1:M:649:VAL:CB	2.53	0.81
1:M:641:LYS:HD2	4:Z:348:SER:CA	2.09	0.81
1:S:215:GLN:N	1:S:340:ILE:CD1	2.44	0.81
1:S:418:THR:HB	1:S:421:GLU:HG3	1.60	0.81
1:S:599:ASN:CA	1:S:649:VAL:CB	2.53	0.81
1:S:641:LYS:HD2	4:2:348:SER:CA	2.09	0.81
1:S:721:LYS:CA	1:S:736:GLN:NE2	2.43	0.81
1:S:732:ILE:CG2	1:S:747:LEU:HD13	1.34	0.81
1:S:839:MLY:HH21	2:T:158:THR:CG2	2.10	0.81
4:2:202:THR:HG21	4:Z:290:ARG:NH1	1.94	0.81
4:V:325:MET:SD	4:X:244:ASP:HB3	2.19	0.81
4:Z:237:GLU:HA	4:Z:251:GLY:HA2	1.60	0.81
1:A:127:ASN:HD22	1:A:128:PRO:HD2	1.45	0.81
1:A:725:ARG:CZ	1:A:733:PRO:HB3	2.06	0.81
1:D:571:ALA:O	1:D:572:LYS:CG	2.28	0.81
1:M:215:GLN:N	1:M:340:ILE:CD1	2.44	0.81
1:M:795:ARG:HB3	3:O:35:ARG:CZ	2.10	0.81
4:2:237:GLU:HA	4:2:251:GLY:HA2	1.60	0.81
1:A:502:GLU:C	1:A:761:GLY:CA	2.53	0.81
1:A:734:GLU:O	1:A:738:MET:CG	2.28	0.81
1:A:752:ASP:CG	1:A:782:MLY:HD3	2.05	0.81
1:A:754:ASP:OD2	1:A:774:LEU:HD23	1.80	0.81
1:A:795:ARG:CD	3:C:35:ARG:NH1	2.24	0.81
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	0.81
1:G:757:GLN:HG2	1:G:776:GLU:CG	1.85	0.81
1:J:578:HIS:HB3	1:J:592:ILE:HD12	1.62	0.81
1:J:721:LYS:CA	1:J:736:GLN:NE2	2.43	0.81
1:M:418:THR:HB	1:M:421:GLU:HG3	1.60	0.81
1:M:534:SER:O	4:Z:351:THR:HG23	1.13	0.81
1:S:218:LEU:HA	1:S:221:GLN:HG2	1.61	0.81
4:1:288:ASP:OD2	4:3:203:THR:CG2	2.25	0.81
4:8:237:GLU:HA	4:8:251:GLY:HA2	1.60	0.81
1:A:418:THR:HB	1:A:421:GLU:HG3	1.60	0.81
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	0.81
1:A:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:LEU:CA	1:D:221:GLN:HG2	2.10	0.81
1:G:232:PHE:CZ	1:G:287:ILE:HD13	2.16	0.81
1:G:791:GLN:NE2	3:I:115:GLY:CA	1.96	0.81
2:H:121:LEU:CG	2:H:128:PHE:CA	2.49	0.81
1:J:831:TRP:CZ2	2:K:47:LEU:CD2	2.64	0.81
1:M:720:PHE:CZ	1:M:772:LEU:HD21	2.08	0.81
1:S:480:ILE:HG22	1:S:481:ASN:HD22	1.45	0.81
1:S:805:ALA:HA	1:S:808:GLU:H	1.43	0.81
4:7:223:PHE:HE1	4:7:255:PHE:HB2	1.46	0.81
4:V:237:GLU:HA	4:V:251:GLY:HA2	1.60	0.81
1:A:795:ARG:NH2	3:C:116:GLU:HB3	1.93	0.81
1:D:799:MET:CE	3:F:32:ASP:CB	2.51	0.81
1:G:641:LYS:HD2	4:V:348:SER:CA	2.10	0.81
1:G:791:GLN:HE21	3:I:115:GLY:HA3	1.44	0.81
1:J:538:GLU:CA	4:W:351:THR:H	1.93	0.81
1:J:784:ALA:O	1:J:788:THR:N	2.14	0.81
1:M:218:LEU:HD22	1:M:222:ILE:CG1	2.10	0.81
1:M:730:SER:O	1:M:734:GLU:HG3	1.79	0.81
1:S:232:PHE:CZ	1:S:287:ILE:HD13	2.16	0.81
4:1:223:PHE:HE1	4:1:255:PHE:HB2	1.46	0.81
1:D:641:LYS:HD2	1:D:647:GLN:OE1	1.81	0.81
1:G:725:ARG:CZ	1:G:733:PRO:HB3	2.05	0.81
1:J:831:TRP:HZ3	2:K:34:ILE:HD13	1.46	0.81
1:M:232:PHE:CZ	1:M:287:ILE:HD13	2.16	0.81
1:M:834:LEU:CD1	2:N:51:PHE:CE1	2.63	0.81
4:3:287:ILE:HG21	4:5:202:THR:C	2.06	0.81
4:9:290:ARG:NH1	4:W:202:THR:HG21	1.94	0.81
1:A:232:PHE:CZ	1:A:287:ILE:HD13	2.16	0.81
1:A:578:HIS:HD2	1:A:591:ASN:HA	1.44	0.81
1:A:831:TRP:CZ3	2:B:50:THR:CG2	2.63	0.81
1:D:641:LYS:HD2	4:9:348:SER:CA	2.09	0.81
1:D:641:LYS:HG2	1:D:647:GLN:HG3	1.60	0.81
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.81
1:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.81
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.16	0.81
1:M:538:GLU:CA	4:Z:351:THR:H	1.93	0.81
1:M:733:PRO:C	1:M:737:PHE:HD1	1.88	0.81
1:S:374:GLN:HG3	1:S:375:ALA:N	1.96	0.81
1:S:409:GLY:N	1:S:636:LYS:CG	2.44	0.81
4:1:287:ILE:HG21	4:3:202:THR:C	2.06	0.81
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:PRO:C	4:8:354:GLN:CB	2.49	0.81
1:A:732:ILE:HG21	1:A:747:LEU:HD13	0.91	0.81
2:B:144:VAL:CA	2:B:153:ILE:HD11	2.11	0.81
1:D:480:ILE:HG22	1:D:481:ASN:HD22	1.45	0.81
1:D:643:GLY:N	4:9:24:ASP:HA	1.94	0.81
1:G:127:ASN:HD22	1:G:128:PRO:HD2	1.45	0.81
1:G:732:ILE:HG22	1:G:747:LEU:HD12	0.81	0.81
1:G:788:THR:O	3:I:42:THR:HG21	1.80	0.81
1:J:374:GLN:HG3	1:J:375:ALA:N	1.96	0.81
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.76	0.81
1:M:557:GLU:N	4:2:48:GLY:HA2	1.90	0.81
1:M:578:HIS:HB3	1:M:592:ILE:HD12	1.62	0.81
1:M:821:ARG:HH21	2:N:127:ARG:HG2	1.01	0.81
2:N:144:VAL:CA	2:N:153:ILE:HD11	2.11	0.81
1:S:791:GLN:NE2	3:U:116:GLU:N	2.27	0.81
4:X:223:PHE:HE1	4:X:255:PHE:HB2	1.46	0.81
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.62	0.80
1:D:734:GLU:O	1:D:738:MET:CG	2.28	0.80
1:D:800:ARG:NH2	3:F:40:ASN:OD1	2.13	0.80
1:J:93:MET:HE2	1:J:764:MLY:HD3	1.62	0.80
1:J:793:ARG:NH1	3:L:40:ASN:HD22	1.79	0.80
1:M:732:ILE:HG21	1:M:747:LEU:HD13	0.90	0.80
2:N:141:PRO:CB	2:N:142:PRO:HD2	2.12	0.80
2:N:144:VAL:HG12	2:N:153:ILE:CD1	2.10	0.80
1:S:218:LEU:HD22	1:S:222:ILE:CG1	2.10	0.80
1:S:552:ASN:OD1	4:4:49:GLN:O	1.70	0.80
4:4:324:THR:CB	4:6:244:ASP:CA	2.48	0.80
4:W:223:PHE:HE1	4:W:255:PHE:HB2	1.46	0.80
3:C:49:ILE:N	3:C:52:ASN:ND2	2.29	0.80
1:D:646:PHE:CE2	1:D:652:LEU:HD21	2.14	0.80
1:J:232:PHE:CZ	1:J:287:ILE:HD13	2.16	0.80
2:K:141:PRO:HB2	2:K:142:PRO:CD	2.12	0.80
1:M:84:MLY:CH2	1:M:719:ASP:HB3	2.10	0.80
1:M:480:ILE:HG22	1:M:481:ASN:HD22	1.45	0.80
1:S:538:GLU:CA	4:2:351:THR:H	1.93	0.80
1:A:798:LEU:CD2	3:C:126:LEU:HD11	2.12	0.80
1:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.69	0.80
2:H:141:PRO:CB	2:H:142:PRO:HD2	2.11	0.80
2:H:144:VAL:CA	2:H:153:ILE:HD11	2.11	0.80
1:J:127:ASN:HD22	1:J:128:PRO:HD2	1.45	0.80
1:J:530:MET:CG	4:W:354:GLN:CB	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:643:GLY:N	4:W:24:ASP:HA	1.94	0.80
1:S:218:LEU:CA	1:S:221:GLN:HG2	2.10	0.80
1:S:542:PHE:CA	4:2:143:TYR:HE1	1.92	0.80
4:3:223:PHE:HE1	4:3:255:PHE:HB2	1.46	0.80
1:A:550:PHE:CA	4:V:46:GLY:CA	2.59	0.80
1:D:538:GLU:CA	4:9:351:THR:H	1.93	0.80
1:D:578:HIS:HB3	1:D:592:ILE:HD12	1.62	0.80
1:D:721:LYS:CA	1:D:736:GLN:NE2	2.43	0.80
1:G:215:GLN:N	1:G:340:ILE:CD1	2.44	0.80
1:G:826:VAL:HG21	2:H:88:LEU:CD2	2.12	0.80
1:J:710:GLY:O	1:J:772:LEU:HB2	1.81	0.80
1:S:291:ILE:HA	1:S:331:LEU:HD11	1.64	0.80
4:2:223:PHE:HE1	4:2:255:PHE:HB2	1.46	0.80
4:8:223:PHE:HE1	4:8:255:PHE:HB2	1.46	0.80
4:W:325:MET:SD	4:Y:244:ASP:HB3	2.19	0.80
2:B:114:LYS:HA	2:B:146:GLY:C	2.03	0.80
1:D:127:ASN:HD22	1:D:128:PRO:HD2	1.45	0.80
1:D:727:LEU:CG	1:D:782:MLY:HH12	2.10	0.80
3:F:49:ILE:N	3:F:52:ASN:ND2	2.29	0.80
1:J:829:TRP:HZ3	2:K:84:PHE:CZ	2.00	0.80
2:K:144:VAL:CA	2:K:153:ILE:HD11	2.11	0.80
1:S:643:GLY:N	4:2:24:ASP:HA	1.93	0.80
1:S:734:GLU:O	1:S:738:MET:CG	2.28	0.80
1:S:747:LEU:HA	3:U:93:VAL:HG11	1.63	0.80
1:S:783:LEU:HG	1:S:786:ILE:HD11	0.81	0.80
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	0.80
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.77	0.80
1:D:823:PHE:CD1	2:E:156:VAL:O	2.35	0.80
2:E:117:LEU:HB2	2:E:147:ASN:HD21	1.47	0.80
1:G:795:ARG:HB2	3:I:35:ARG:HH12	1.44	0.80
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	0.80
1:J:480:ILE:HG22	1:J:481:ASN:HD22	1.45	0.80
1:J:736:GLN:HA	1:J:743:ALA:HB2	1.51	0.80
1:J:769:ALA:HB2	1:J:770:GLY:HA2	1.61	0.80
1:J:830:PRO:HB3	2:K:67:MET:HE2	1.61	0.80
1:M:291:ILE:HA	1:M:331:LEU:HD11	1.64	0.80
1:M:578:HIS:HD2	1:M:591:ASN:HA	1.45	0.80
1:M:732:ILE:HG22	1:M:747:LEU:HD12	0.81	0.80
3:O:49:ILE:N	3:O:52:ASN:ND2	2.29	0.80
1:S:792:ALA:HB3	3:U:42:THR:CG2	1.96	0.80
2:T:150:TYR:C	2:T:151:LYS:CG	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:288:ASP:H	4:5:203:THR:HG22	1.40	0.80
4:X:291:LYS:HE3	4:Z:243:PRO:HB2	0.80	0.80
1:A:218:LEU:HA	1:A:221:GLN:HG2	1.62	0.80
1:A:374:GLN:HG3	1:A:375:ALA:N	1.96	0.80
1:D:831:TRP:CE2	2:E:51:PHE:HZ	1.99	0.80
1:G:148:ARG:NH2	1:G:764:MLY:HH21	1.94	0.80
1:G:542:PHE:CA	4:V:143:TYR:HE1	1.93	0.80
1:G:734:GLU:O	1:G:738:MET:CG	2.28	0.80
1:G:755:HIS:H	1:G:779:ARG:CZ	1.94	0.80
1:J:578:HIS:HD2	1:J:591:ASN:HA	1.45	0.80
1:J:732:ILE:HG21	1:J:747:LEU:HD13	0.91	0.80
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	0.80
1:M:218:LEU:CA	1:M:221:GLN:HG2	2.10	0.80
1:M:734:GLU:O	1:M:738:MET:CG	2.28	0.80
2:T:141:PRO:CB	2:T:142:PRO:HD2	2.12	0.80
2:T:144:VAL:CA	2:T:153:ILE:HD11	2.11	0.80
2:B:141:PRO:CB	2:B:142:PRO:HD2	2.12	0.80
2:E:144:VAL:CA	2:E:153:ILE:HD11	2.11	0.80
1:J:84:MLY:HD2	1:J:724:TYR:OH	1.82	0.80
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.80
1:J:646:PHE:CE2	1:J:652:LEU:HD21	2.14	0.80
1:J:732:ILE:HG22	1:J:747:LEU:HD12	0.81	0.80
1:M:550:PHE:CA	4:2:46:GLY:CA	2.59	0.80
1:M:818:TYR:CD1	2:N:127:ARG:NH1	2.50	0.80
1:S:578:HIS:HD2	1:S:591:ASN:HA	1.45	0.80
1:A:215:GLN:N	1:A:340:ILE:CD1	2.44	0.80
1:A:218:LEU:CA	1:A:221:GLN:HG2	2.10	0.80
1:D:215:GLN:N	1:D:340:ILE:CD1	2.44	0.80
2:H:141:PRO:HB2	2:H:142:PRO:CD	2.12	0.80
1:J:291:ILE:HA	1:J:331:LEU:HD11	1.64	0.80
1:J:834:LEU:HD12	2:K:51:PHE:HE1	1.47	0.80
1:M:553:MLY:CB	4:2:46:GLY:CA	2.33	0.80
1:M:795:ARG:HG3	3:O:118:MET:CE	1.92	0.80
1:M:803:TYR:HD2	3:O:17:PHE:CZ	1.99	0.80
2:N:114:LYS:HA	2:N:146:GLY:C	2.03	0.80
1:S:836:PHE:HE1	2:T:159:HIS:HA	1.03	0.80
1:A:538:GLU:CA	4:8:351:THR:H	1.93	0.80
1:D:578:HIS:HD2	1:D:591:ASN:HA	1.45	0.80
1:D:727:LEU:HB3	1:D:782:MLY:CH1	2.09	0.80
1:D:791:GLN:CD	3:F:116:GLU:N	2.25	0.80
1:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:599:ASN:CA	1:J:649:VAL:CB	2.53	0.80
1:J:725:ARG:CZ	1:J:733:PRO:HB3	2.06	0.80
1:M:127:ASN:HD22	1:M:128:PRO:HD2	1.44	0.80
1:S:733:PRO:C	1:S:737:PHE:HD1	1.88	0.80
2:T:141:PRO:HB2	2:T:142:PRO:CD	2.12	0.80
1:A:817:GLN:OE1	2:B:127:ARG:CZ	2.30	0.79
1:D:232:PHE:CZ	1:D:287:ILE:HD13	2.16	0.79
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.79
1:G:820:VAL:HG11	2:H:136:MET:CE	2.11	0.79
1:S:127:ASN:HD22	1:S:128:PRO:HD2	1.44	0.79
1:S:792:ALA:HB1	3:U:42:THR:CA	2.09	0.79
4:Z:223:PHE:HE1	4:Z:255:PHE:HB2	1.46	0.79
1:A:797:PHE:CE2	3:C:126:LEU:CD2	2.60	0.79
1:D:409:GLY:N	1:D:636:LYS:CG	2.44	0.79
1:D:550:PHE:HA	4:W:46:GLY:HA2	1.64	0.79
1:D:724:TYR:HA	1:D:782:MLY:HD2	0.81	0.79
1:G:374:GLN:HG3	1:G:375:ALA:N	1.96	0.79
1:G:757:GLN:CD	1:G:776:GLU:HG2	2.05	0.79
1:M:571:ALA:O	1:M:572:LYS:CG	2.28	0.79
1:S:797:PHE:HZ	3:U:146:ILE:HD13	1.43	0.79
1:A:93:MET:HG2	1:A:715:VAL:CG2	2.12	0.79
1:A:409:GLY:N	1:A:636:LYS:CG	2.44	0.79
1:A:542:PHE:CA	4:8:143:TYR:HE1	1.92	0.79
1:A:641:LYS:HD2	1:A:647:GLN:OE1	1.81	0.79
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.79
1:D:834:LEU:CD2	2:E:54:MET:HE3	2.10	0.79
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	2.00	0.79
1:M:374:GLN:HG3	1:M:375:ALA:N	1.96	0.79
1:M:732:ILE:HG23	1:M:747:LEU:CB	1.85	0.79
2:N:121:LEU:CG	2:N:128:PHE:CA	2.48	0.79
1:S:544:LYS:HD3	4:4:45:VAL:HG21	1.63	0.79
1:S:641:LYS:HG2	1:S:647:GLN:HG3	1.61	0.79
4:4:288:ASP:N	4:6:203:THR:CG2	2.45	0.79
1:A:732:ILE:HG22	1:A:747:LEU:HD12	0.81	0.79
1:D:712:PRO:CG	1:D:771:LEU:CB	2.53	0.79
2:E:141:PRO:HB2	2:E:142:PRO:CD	2.12	0.79
3:L:49:ILE:N	3:L:52:ASN:ND2	2.30	0.79
1:M:407:GLY:HA2	1:M:412:ALA:HA	1.65	0.79
2:N:141:PRO:HB2	2:N:142:PRO:CD	2.12	0.79
1:S:93:MET:HG2	1:S:715:VAL:CA	2.05	0.79
4:2:204:ALA:N	4:Z:287:ILE:HB	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:223:PHE:HE1	4:Y:255:PHE:HB2	1.46	0.79
1:A:799:MET:SD	3:C:32:ASP:HA	2.23	0.79
2:B:144:VAL:HG12	2:B:153:ILE:CD1	2.09	0.79
1:D:725:ARG:CZ	1:D:733:PRO:HB3	2.05	0.79
2:K:141:PRO:CB	2:K:142:PRO:HD2	2.12	0.79
4:1:287:ILE:CG1	4:3:202:THR:HB	2.13	0.79
4:4:287:ILE:HG21	4:6:202:THR:C	2.06	0.79
1:A:480:ILE:HG22	1:A:481:ASN:HD22	1.45	0.79
1:A:571:ALA:O	1:A:572:LYS:CG	2.28	0.79
1:A:735:GLY:C	1:A:743:ALA:HB1	1.84	0.79
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	0.79
1:G:530:MET:CG	4:V:354:GLN:CB	2.30	0.79
1:G:641:LYS:HG2	1:G:647:GLN:HG3	1.61	0.79
1:J:537:GLU:O	4:W:350:SER:N	2.16	0.79
1:M:542:PHE:CA	4:Z:143:TYR:HE1	1.92	0.79
1:M:786:ILE:CA	1:M:787:ILE:N	2.45	0.79
1:M:826:VAL:HG21	2:N:88:LEU:HD23	1.63	0.79
1:S:174:SER:CB	1:S:667:THR:HG21	2.13	0.79
1:S:751:GLY:C	3:U:86:ASP:OD1	2.25	0.79
4:3:288:ASP:N	4:5:203:THR:CG2	2.45	0.79
4:5:223:PHE:HE1	4:5:255:PHE:HB2	1.46	0.79
1:A:550:PHE:N	4:V:46:GLY:HA3	1.97	0.79
1:M:629:GLU:HA	1:M:643:GLY:C	2.05	0.79
1:M:753:VAL:HG11	1:M:775:LEU:HD11	1.64	0.79
1:S:84:MLY:CH1	1:S:724:TYR:CE2	2.60	0.79
1:S:629:GLU:HA	1:S:643:GLY:C	2.05	0.79
1:A:501:GLU:HG2	1:A:762:HIS:HD1	0.71	0.79
1:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.79
1:D:550:PHE:CA	4:W:46:GLY:CA	2.59	0.79
1:G:571:ALA:O	1:G:572:LYS:CG	2.28	0.79
1:J:571:ALA:O	1:J:572:LYS:CG	2.28	0.79
1:M:174:SER:CB	1:M:667:THR:HG21	2.13	0.79
1:S:727:LEU:HD23	1:S:783:LEU:HB2	0.89	0.79
1:S:732:ILE:HG22	1:S:747:LEU:HD12	0.81	0.79
1:S:805:ALA:CA	1:S:808:GLU:H	1.95	0.79
4:4:287:ILE:HG23	4:6:202:THR:HG1	1.48	0.79
1:A:797:PHE:HE1	3:C:146:ILE:HA	1.45	0.79
1:D:407:GLY:HA2	1:D:412:ALA:HA	1.65	0.79
1:D:537:GLU:O	4:9:350:SER:N	2.16	0.79
1:D:713:SER:HG	1:D:771:LEU:CD2	1.94	0.79
2:E:141:PRO:CB	2:E:142:PRO:HD2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:291:ILE:HA	1:G:331:LEU:HD11	1.64	0.79
1:G:409:GLY:N	1:G:636:LYS:CG	2.44	0.79
3:I:49:ILE:N	3:I:52:ASN:ND2	2.29	0.79
1:J:818:TYR:CD1	2:K:127:ARG:NH1	2.50	0.79
1:M:642:LYS:HG2	4:Z:22:ALA:HA	1.65	0.79
1:M:805:ALA:HA	1:M:808:GLU:HB2	1.64	0.79
2:T:111:SER:OG	2:T:148:VAL:C	2.15	0.79
4:3:287:ILE:HG13	4:5:202:THR:CB	2.12	0.79
4:4:324:THR:OG1	4:6:244:ASP:N	1.96	0.79
4:6:223:PHE:HE1	4:6:255:PHE:HB2	1.46	0.79
1:A:291:ILE:HA	1:A:331:LEU:HD11	1.64	0.79
1:A:831:TRP:HZ3	2:B:50:THR:CG2	1.95	0.79
1:D:724:TYR:HB3	1:D:782:MLY:NZ	1.99	0.79
1:D:732:ILE:HG22	1:D:747:LEU:HD12	0.81	0.79
1:G:791:GLN:NE2	3:I:116:GLU:H	1.81	0.79
1:M:550:PHE:HA	4:2:46:GLY:HA2	1.64	0.79
1:M:550:PHE:N	4:2:46:GLY:HA3	1.97	0.79
1:S:505:MLY:HH21	1:S:762:HIS:CD2	2.17	0.79
1:S:795:ARG:HB2	3:U:35:ARG:HH12	1.45	0.79
3:U:49:ILE:N	3:U:52:ASN:ND2	2.29	0.79
4:V:223:PHE:HE1	4:V:255:PHE:HB2	1.46	0.79
1:A:174:SER:CB	1:A:667:THR:HG21	2.13	0.78
1:A:407:GLY:HA2	1:A:412:ALA:HA	1.65	0.78
1:A:642:LYS:HG2	4:8:22:ALA:HA	1.65	0.78
2:K:117:LEU:HB2	2:K:147:ASN:HD21	1.47	0.78
1:A:505:MLY:H	1:A:762:HIS:CD2	1.97	0.78
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.62	0.78
1:D:641:LYS:CE	1:D:647:GLN:HB2	2.13	0.78
1:D:726:VAL:HG12	1:D:785:GLU:HG3	1.61	0.78
1:D:732:ILE:CD1	1:D:782:MLY:HH13	2.13	0.78
1:J:174:SER:CB	1:J:667:THR:HG21	2.13	0.78
1:M:409:GLY:N	1:M:636:LYS:CG	2.44	0.78
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.78
1:D:721:LYS:CB	1:D:736:GLN:CD	2.56	0.78
1:G:757:GLN:CG	1:G:776:GLU:HG3	2.03	0.78
1:G:823:PHE:CE1	2:H:156:VAL:O	2.37	0.78
1:M:553:MLY:NZ	4:2:45:VAL:HA	1.84	0.78
1:S:537:GLU:O	4:2:350:SER:N	2.16	0.78
4:1:288:ASP:CG	4:3:203:THR:HG23	2.07	0.78
2:B:141:PRO:HB2	2:B:142:PRO:CD	2.12	0.78
1:D:836:PHE:CE1	2:E:159:HIS:CA	2.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:817:GLN:HB3	2:H:127:ARG:CD	2.14	0.78
1:J:639:GLY:CA	4:W:345:ILE:N	2.47	0.78
1:M:97:LEU:CD2	1:M:712:PRO:CB	2.61	0.78
1:S:642:LYS:HG2	4:2:22:ALA:HA	1.65	0.78
1:S:721:LYS:CB	1:S:736:GLN:CD	2.56	0.78
4:2:166:TYR:HE2	4:4:64:ILE:HG21	1.48	0.78
1:D:174:SER:CB	1:D:667:THR:HG21	2.13	0.78
1:D:823:PHE:CE1	2:E:156:VAL:CG1	2.67	0.78
2:E:144:VAL:HG12	2:E:153:ILE:CD1	2.10	0.78
1:G:646:PHE:HE2	1:G:652:LEU:CD2	1.97	0.78
1:S:839:MLY:HD2	2:T:159:HIS:HB3	1.66	0.78
4:4:223:PHE:HE1	4:4:255:PHE:HB2	1.46	0.78
4:X:291:LYS:CE	4:Z:243:PRO:CA	2.61	0.78
4:X:291:LYS:HE2	4:Z:243:PRO:O	1.82	0.78
1:A:219:GLU:O	1:A:223:ILE:HG13	1.84	0.78
1:A:537:GLU:O	4:8:350:SER:N	2.16	0.78
1:A:639:GLY:CA	4:8:345:ILE:N	2.47	0.78
1:D:639:GLY:CA	4:9:345:ILE:N	2.47	0.78
1:G:166:MET:HE1	1:G:254:PHE:CD2	2.19	0.78
1:G:219:GLU:O	1:G:223:ILE:HG13	1.84	0.78
1:G:537:GLU:O	4:V:350:SER:N	2.16	0.78
1:G:801:VAL:HG21	3:I:126:LEU:HD23	1.64	0.78
1:J:409:GLY:N	1:J:636:LYS:CG	2.44	0.78
1:J:646:PHE:HE2	1:J:652:LEU:CD2	1.97	0.78
1:J:797:PHE:CE2	3:L:126:LEU:HD13	2.19	0.78
1:M:51:THR:O	1:M:62:VAL:HG13	1.84	0.78
1:M:721:LYS:CB	1:M:736:GLN:CD	2.56	0.78
1:S:646:PHE:HE2	1:S:652:LEU:CD2	1.97	0.78
1:S:731:ALA:HB1	3:U:93:VAL:CA	2.14	0.78
1:S:753:VAL:HG13	1:S:779:ARG:NH1	1.98	0.78
4:X:288:ASP:N	4:Z:202:THR:OG1	2.03	0.78
1:A:166:MET:HE1	1:A:254:PHE:CD2	2.19	0.78
1:A:498:LEU:HD21	1:A:764:MLY:HH22	1.66	0.78
1:D:51:THR:O	1:D:62:VAL:HG13	1.84	0.78
1:G:817:GLN:HG3	2:H:128:PHE:CE1	2.19	0.78
1:G:820:VAL:CG1	2:H:136:MET:HE1	2.13	0.78
1:J:84:MLY:HH22	1:J:719:ASP:C	2.00	0.78
1:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.78
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.78
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.78
1:J:756:THR:HG21	1:J:779:ARG:HB3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:93:MET:HE1	1:S:764:MLY:HB2	1.61	0.78
1:S:641:LYS:HD2	1:S:647:GLN:OE1	1.81	0.78
1:S:803:TYR:CE2	3:U:17:PHE:CZ	2.72	0.78
4:2:173:HIS:CD2	4:3:268:GLY:HA3	2.18	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:530:MET:CG	4:8:354:GLN:CB	2.30	0.78
1:A:550:PHE:HA	4:V:46:GLY:HA2	1.65	0.78
1:A:646:PHE:HE2	1:A:652:LEU:CD2	1.97	0.78
1:A:817:GLN:CD	2:B:127:ARG:HE	1.89	0.78
1:A:834:LEU:HD21	2:B:54:MET:SD	2.21	0.78
2:B:121:LEU:CG	2:B:128:PHE:HA	2.14	0.78
1:M:410:ASN:CG	4:Z:334:GLU:CA	2.47	0.78
2:B:117:LEU:HB2	2:B:147:ASN:HD21	1.47	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:529:PRO:C	4:9:354:GLN:CB	2.49	0.78
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.78
1:D:735:GLY:C	1:D:743:ALA:HB2	1.82	0.78
1:G:641:LYS:CE	1:G:647:GLN:HB2	2.13	0.78
1:G:736:GLN:CA	1:G:743:ALA:HB2	1.95	0.78
1:J:166:MET:HE1	1:J:254:PHE:CD2	2.19	0.78
1:J:733:PRO:C	1:J:737:PHE:CD1	2.62	0.78
1:M:219:GLU:O	1:M:223:ILE:HG13	1.84	0.78
1:M:537:GLU:O	4:Z:350:SER:N	2.16	0.78
1:S:217:THR:C	1:S:221:GLN:HE21	1.92	0.78
1:S:753:VAL:CG1	1:S:779:ARG:NH1	2.47	0.78
3:C:3:SER:O	3:C:4:LYS:HB2	1.84	0.78
1:D:721:LYS:HG2	1:D:736:GLN:CD	1.86	0.78
1:G:218:LEU:HD22	1:G:222:ILE:HG12	1.66	0.78
1:G:496:PHE:CD2	1:G:514:ASP:HA	2.19	0.78
1:G:642:LYS:HG2	4:V:22:ALA:HA	1.65	0.78
1:S:51:THR:O	1:S:62:VAL:HG13	1.84	0.78
1:S:84:MLY:NZ	1:S:724:TYR:HE2	1.82	0.78
1:S:166:MET:HE1	1:S:254:PHE:CD2	2.19	0.78
1:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.77
1:A:553:MLY:NZ	4:V:45:VAL:HA	1.84	0.77
1:A:641:LYS:CE	1:A:647:GLN:HB2	2.13	0.77
1:A:800:ARG:C	3:C:149:VAL:HG21	2.09	0.77
1:D:641:LYS:CE	1:D:647:GLN:CG	2.60	0.77
1:D:712:PRO:CB	1:D:771:LEU:CB	2.62	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:SER:CB	1:G:667:THR:HG21	2.13	0.77
1:G:836:PHE:CZ	2:H:159:HIS:HA	2.17	0.77
1:M:217:THR:C	1:M:221:GLN:HE21	1.92	0.77
1:M:639:GLY:CA	4:Z:345:ILE:N	2.46	0.77
1:M:783:LEU:CD2	1:M:786:ILE:HD11	2.10	0.77
1:M:795:ARG:HG2	3:O:118:MET:SD	2.23	0.77
1:S:496:PHE:CD2	1:S:514:ASP:HA	2.19	0.77
4:1:223:PHE:HD2	4:1:312:ARG:HH21	1.33	0.77
1:A:496:PHE:CD2	1:A:514:ASP:HA	2.19	0.77
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.77
3:C:49:ILE:N	3:C:52:ASN:HD22	1.82	0.77
1:D:732:ILE:HG21	1:D:747:LEU:HD13	0.91	0.77
1:D:795:ARG:HB3	3:F:35:ARG:NH2	1.98	0.77
1:G:218:LEU:HA	1:G:221:GLN:HG2	1.62	0.77
1:J:51:THR:O	1:J:62:VAL:HG13	1.84	0.77
1:J:798:LEU:HD11	3:L:126:LEU:HD13	1.59	0.77
1:M:166:MET:HE1	1:M:254:PHE:CD2	2.19	0.77
1:M:641:LYS:CE	1:M:647:GLN:HB2	2.13	0.77
1:M:732:ILE:CG2	1:M:747:LEU:HD13	1.34	0.77
3:U:49:ILE:N	3:U:52:ASN:HD22	1.82	0.77
4:Y:223:PHE:HD2	4:Y:312:ARG:HH21	1.33	0.77
1:A:131:TRP:C	1:A:132:LEU:HD12	2.09	0.77
1:D:131:TRP:C	1:D:132:LEU:HD12	2.09	0.77
1:D:635:GLY:HA3	4:9:341:ILE:CD1	2.14	0.77
1:D:795:ARG:HD2	3:F:35:ARG:HH12	1.49	0.77
1:D:831:TRP:CH2	2:E:34:ILE:HG23	2.18	0.77
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.77
1:G:407:GLY:HA2	1:G:412:ALA:HA	1.65	0.77
1:J:219:GLU:O	1:J:223:ILE:HG13	1.84	0.77
1:J:635:GLY:HA3	4:W:341:ILE:CD1	2.14	0.77
1:M:496:PHE:CD2	1:M:514:ASP:HA	2.19	0.77
1:M:530:MET:HE2	4:Z:354:GLN:HG3	1.61	0.77
1:M:798:LEU:HD13	3:O:126:LEU:HD11	1.67	0.77
1:S:131:TRP:C	1:S:132:LEU:HD12	2.10	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
4:W:223:PHE:HD2	4:W:312:ARG:HH21	1.33	0.77
1:A:642:LYS:CG	4:8:23:GLY:H	1.77	0.77
1:D:557:GLU:N	4:W:48:GLY:HA2	1.90	0.77
1:D:795:ARG:HE	3:F:116:GLU:HB3	1.50	0.77
1:G:51:THR:O	1:G:62:VAL:HG13	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.77
1:G:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.77
1:J:84:MLY:CH2	1:J:720:PHE:N	2.48	0.77
1:J:407:GLY:HA2	1:J:412:ALA:HA	1.65	0.77
1:M:506:GLU:OE2	1:M:761:GLY:HA3	1.84	0.77
1:M:817:GLN:CB	2:N:127:ARG:CD	2.50	0.77
1:S:116:TYR:O	1:S:153:PRO:HB2	1.85	0.77
4:1:324:THR:HG23	4:3:244:ASP:HA	1.67	0.77
4:8:223:PHE:HD2	4:8:312:ARG:HH21	1.33	0.77
1:J:821:ARG:HH21	2:K:127:ARG:HG2	1.50	0.77
1:M:635:GLY:HA3	4:Z:341:ILE:CD1	2.14	0.77
1:M:795:ARG:CB	3:O:35:ARG:NH2	2.37	0.77
1:S:218:LEU:HD22	1:S:222:ILE:HG12	1.67	0.77
1:S:530:MET:HE2	4:2:354:GLN:HG3	1.62	0.77
1:S:783:LEU:HA	1:S:786:ILE:HG12	1.61	0.77
4:4:287:ILE:HG13	4:6:202:THR:CB	2.12	0.77
1:D:290:GLN:C	1:D:331:LEU:HD12	2.09	0.77
1:D:800:ARG:CD	3:F:149:VAL:C	2.58	0.77
1:J:131:TRP:C	1:J:132:LEU:HD12	2.09	0.77
1:J:530:MET:HE2	4:W:354:GLN:HG3	1.62	0.77
1:M:646:PHE:HE2	1:M:652:LEU:CD2	1.97	0.77
1:M:798:LEU:CD1	3:O:126:LEU:CD1	2.63	0.77
3:O:3:SER:O	3:O:4:LYS:HB2	1.85	0.77
1:S:797:PHE:CE1	3:U:146:ILE:C	2.62	0.77
4:3:223:PHE:HD2	4:3:312:ARG:HH21	1.33	0.77
4:V:223:PHE:HD2	4:V:312:ARG:HH21	1.33	0.77
4:X:223:PHE:HD2	4:X:312:ARG:HH21	1.32	0.77
1:A:116:TYR:O	1:A:153:PRO:HB2	1.85	0.77
1:A:290:GLN:C	1:A:331:LEU:HD12	2.10	0.77
1:A:499:GLU:OE2	1:A:766:PHE:CE2	2.38	0.77
1:A:557:GLU:N	4:V:48:GLY:HA3	1.90	0.77
1:D:94:MET:CE	1:D:101:ALA:HB1	2.15	0.77
1:D:795:ARG:NE	3:F:43:ASN:OD1	2.18	0.77
1:G:834:LEU:CD1	2:H:51:PHE:HE1	1.95	0.77
3:L:49:ILE:N	3:L:52:ASN:HD22	1.83	0.77
1:S:641:LYS:CE	1:S:647:GLN:HB2	2.13	0.77
1:S:783:LEU:HA	1:S:786:ILE:CD1	2.14	0.77
1:S:826:VAL:HG21	2:T:88:LEU:CD2	2.15	0.77
2:T:114:LYS:HA	2:T:146:GLY:C	2.03	0.77
1:D:496:PHE:CD2	1:D:514:ASP:HA	2.19	0.77
1:D:822:SER:OG	2:E:88:LEU:CD2	2.33	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.72	0.77
1:J:290:GLN:C	1:J:331:LEU:HD12	2.09	0.77
1:J:641:LYS:CE	1:J:647:GLN:HB2	2.13	0.77
1:J:641:LYS:CE	1:J:647:GLN:CG	2.60	0.77
1:J:710:GLY:O	1:J:772:LEU:CB	2.33	0.77
1:M:93:MET:HG2	1:M:714:ARG:O	1.84	0.77
1:M:116:TYR:O	1:M:153:PRO:HB2	1.85	0.77
1:S:219:GLU:O	1:S:223:ILE:HG13	1.84	0.77
1:S:721:LYS:CA	1:S:736:GLN:OE1	2.33	0.77
1:S:746:LYS:HZ1	3:U:96:LYS:HA	1.49	0.77
4:1:201:VAL:O	4:Y:287:ILE:HD11	1.75	0.77
4:7:223:PHE:HD2	4:7:312:ARG:HH21	1.33	0.77
4:V:287:ILE:HD11	4:X:201:VAL:O	1.75	0.77
1:A:732:ILE:N	1:A:733:PRO:HD2	2.00	0.77
1:D:623:PHE:CG	1:D:623:PHE:CA	2.68	0.77
1:D:831:TRP:CZ2	2:E:47:LEU:HD22	2.20	0.77
3:F:3:SER:O	3:F:4:LYS:HB2	1.84	0.77
3:F:49:ILE:N	3:F:52:ASN:HD22	1.82	0.77
1:G:116:TYR:O	1:G:153:PRO:HB2	1.85	0.77
1:G:817:GLN:CD	2:H:127:ARG:HB2	2.10	0.77
1:J:496:PHE:CD2	1:J:514:ASP:HA	2.19	0.77
1:J:623:PHE:CG	1:J:623:PHE:CA	2.68	0.77
1:J:829:TRP:CZ3	2:K:84:PHE:CE1	2.73	0.77
1:M:721:LYS:HG2	1:M:736:GLN:CD	1.85	0.77
1:M:819:ASN:OD1	2:N:92:ASP:CA	2.32	0.77
1:S:407:GLY:HA2	1:S:412:ALA:HA	1.65	0.77
1:S:639:GLY:CA	4:2:345:ILE:N	2.47	0.77
1:A:797:PHE:CG	3:C:146:ILE:HG23	2.20	0.77
1:D:116:TYR:O	1:D:153:PRO:HB2	1.85	0.77
1:G:641:LYS:CE	1:G:647:GLN:CG	2.61	0.77
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	0.77
1:J:94:MET:CE	1:J:101:ALA:HB1	2.16	0.77
1:J:218:LEU:HB2	1:J:221:GLN:CG	2.09	0.77
2:K:121:LEU:CG	2:K:128:PHE:HA	2.14	0.77
1:M:646:PHE:CE2	1:M:652:LEU:HD21	2.15	0.77
1:M:725:ARG:HG3	1:M:733:PRO:HA	1.67	0.77
1:S:635:GLY:HA3	4:2:341:ILE:CD1	2.14	0.77
1:A:217:THR:C	1:A:221:GLN:HE21	1.93	0.76
1:A:218:LEU:HB3	1:A:221:GLN:HG3	1.61	0.76
1:A:795:ARG:CB	3:C:35:ARG:NH2	2.45	0.76
1:J:721:LYS:CA	1:J:736:GLN:OE1	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:795:ARG:HH21	3:L:116:GLU:CG	1.98	0.76
1:M:95:THR:CA	1:M:713:SER:CB	2.48	0.76
1:M:131:TRP:C	1:M:132:LEU:HD12	2.09	0.76
4:Z:223:PHE:HD2	4:Z:312:ARG:HH21	1.32	0.76
1:A:481:ASN:HD22	1:A:481:ASN:N	1.82	0.76
1:A:635:GLY:HA3	4:8:341:ILE:CD1	2.14	0.76
1:A:725:ARG:HG3	1:A:733:PRO:HA	1.67	0.76
1:D:534:SER:O	4:9:351:THR:N	2.19	0.76
1:G:599:ASN:CA	1:G:649:VAL:CB	2.53	0.76
1:G:639:GLY:CA	4:V:345:ILE:N	2.47	0.76
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.76
2:H:121:LEU:CG	2:H:128:PHE:HA	2.14	0.76
1:J:836:PHE:CE1	2:K:160:GLY:N	2.53	0.76
1:M:836:PHE:CZ	2:N:159:HIS:HA	2.17	0.76
1:S:646:PHE:CE2	1:S:652:LEU:HD21	2.14	0.76
4:3:287:ILE:HG23	4:5:202:THR:HG1	1.49	0.76
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:A:797:PHE:CD1	3:C:149:VAL:CG1	2.69	0.76
1:G:94:MET:CE	1:G:101:ALA:HB1	2.15	0.76
1:G:97:LEU:HD22	1:G:712:PRO:HB3	1.65	0.76
1:G:795:ARG:HB2	3:I:35:ARG:NH1	1.99	0.76
1:J:481:ASN:HD22	1:J:481:ASN:N	1.82	0.76
1:J:642:LYS:HG2	4:W:22:ALA:HA	1.65	0.76
1:J:817:GLN:CG	2:K:127:ARG:CB	2.40	0.76
1:M:623:PHE:CG	1:M:623:PHE:CA	2.68	0.76
1:M:732:ILE:N	1:M:733:PRO:HD2	2.00	0.76
4:1:287:ILE:CG1	4:3:202:THR:CB	2.63	0.76
1:A:599:ASN:CA	1:A:649:VAL:CB	2.54	0.76
1:D:219:GLU:O	1:D:223:ILE:HG13	1.84	0.76
1:D:530:MET:CG	4:9:354:GLN:CB	2.30	0.76
1:J:795:ARG:C	3:L:35:ARG:NH2	2.42	0.76
4:2:202:THR:CG2	4:Z:290:ARG:NH1	2.49	0.76
4:3:324:THR:CB	4:5:244:ASP:CA	2.48	0.76
1:A:505:MLY:HG3	1:A:741:LYS:HZ3	1.48	0.76
1:J:116:TYR:O	1:J:153:PRO:HB2	1.85	0.76
1:J:792:ALA:HA	3:L:42:THR:HA	1.65	0.76
1:M:94:MET:CE	1:M:101:ALA:HB1	2.15	0.76
1:M:721:LYS:CA	1:M:736:GLN:OE1	2.33	0.76
1:M:733:PRO:C	1:M:737:PHE:CD1	2.62	0.76
1:M:816:ILE:HD11	2:N:100:ALA:HB1	1.66	0.76
1:S:793:ARG:HH11	3:U:40:ASN:CB	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:TYR:CD1	1:D:782:MLY:CD	2.69	0.76
1:D:725:ARG:HG3	1:D:733:PRO:HA	1.68	0.76
1:D:800:ARG:HD3	3:F:149:VAL:C	2.10	0.76
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.76
1:J:817:GLN:CB	2:K:127:ARG:HH11	1.99	0.76
1:M:641:LYS:CE	1:M:647:GLN:CG	2.61	0.76
1:M:805:ALA:O	1:M:809:ARG:N	2.18	0.76
1:M:831:TRP:CZ2	2:N:47:LEU:HD22	2.20	0.76
1:S:290:GLN:C	1:S:331:LEU:HD12	2.09	0.76
1:S:725:ARG:HG3	1:S:733:PRO:HA	1.67	0.76
3:U:3:SER:O	3:U:4:LYS:HB2	1.84	0.76
4:2:223:PHE:HD2	4:2:312:ARG:HH21	1.32	0.76
4:4:223:PHE:HD2	4:4:312:ARG:HH21	1.33	0.76
4:6:223:PHE:HD2	4:6:312:ARG:HH21	1.33	0.76
1:A:721:LYS:CA	1:A:736:GLN:OE1	2.33	0.76
1:D:642:LYS:HG2	4:9:22:ALA:HA	1.65	0.76
1:D:712:PRO:CD	1:D:771:LEU:HD13	2.15	0.76
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	0.76
1:G:817:GLN:NE2	2:H:127:ARG:HB2	2.00	0.76
1:S:538:GLU:OE2	4:2:355:MET:HE2	1.86	0.76
1:S:831:TRP:HZ3	2:T:34:ILE:HD13	1.51	0.76
2:T:117:LEU:HB2	2:T:147:ASN:HD21	1.47	0.76
4:1:287:ILE:CD1	4:3:203:THR:N	2.48	0.76
4:9:290:ARG:NH1	4:W:202:THR:CG2	2.49	0.76
1:D:217:THR:C	1:D:221:GLN:HE21	1.92	0.76
1:M:649:VAL:CG1	1:M:649:VAL:CB	2.64	0.76
1:M:836:PHE:CD2	2:N:160:GLY:N	2.50	0.76
3:O:49:ILE:N	3:O:52:ASN:HD22	1.82	0.76
4:1:288:ASP:N	4:3:203:THR:CG2	2.48	0.76
4:8:290:ARG:NH1	4:V:202:THR:CG2	2.49	0.76
1:A:836:PHE:HZ	2:B:160:GLY:H	1.28	0.76
1:D:218:LEU:HB2	1:D:221:GLN:CG	2.09	0.76
1:D:649:VAL:CG1	1:D:649:VAL:CB	2.64	0.76
1:D:721:LYS:CA	1:D:736:GLN:OE1	2.33	0.76
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.76
1:G:623:PHE:CG	1:G:623:PHE:CA	2.69	0.76
1:J:217:THR:C	1:J:221:GLN:HE21	1.92	0.76
1:J:218:LEU:HD22	1:J:222:ILE:HG12	1.67	0.76
1:J:725:ARG:HG3	1:J:733:PRO:HA	1.67	0.76
1:M:290:GLN:C	1:M:331:LEU:HD12	2.09	0.76
1:M:534:SER:O	4:Z:351:THR:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:636:LYS:O	1:M:637:LYS:HB2	1.86	0.76
1:M:664:LEU:O	1:M:667:THR:HB	1.86	0.76
1:S:534:SER:O	4:2:351:THR:N	2.19	0.76
1:S:732:ILE:N	1:S:733:PRO:HD2	2.00	0.76
1:S:797:PHE:CE1	3:U:146:ILE:CA	2.69	0.76
1:S:836:PHE:CE1	2:T:160:GLY:H	1.43	0.76
4:2:202:THR:HG23	4:Z:290:ARG:HH22	1.50	0.76
1:A:830:PRO:HG2	2:B:67:MET:CE	2.15	0.76
1:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.76
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	0.76
1:S:770:GLY:C	1:S:771:LEU:N	2.43	0.76
1:A:149:GLN:CB	1:A:719:ASP:N	2.49	0.75
1:A:818:TYR:HB2	2:B:90:GLY:HA3	1.65	0.75
1:G:290:GLN:C	1:G:331:LEU:HD12	2.10	0.75
1:G:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.75
1:G:732:ILE:HG23	1:G:747:LEU:CB	1.85	0.75
1:G:732:ILE:N	1:G:733:PRO:HD2	2.00	0.75
1:G:754:ASP:N	1:G:779:ARG:HD3	2.01	0.75
1:G:757:GLN:CB	1:G:776:GLU:CG	2.63	0.75
1:G:795:ARG:HA	3:I:118:MET:CE	2.16	0.75
1:J:736:GLN:CA	1:J:743:ALA:HB2	1.95	0.75
1:M:95:THR:OG1	1:M:770:GLY:N	2.20	0.75
1:M:97:LEU:HD23	1:M:712:PRO:HB3	1.66	0.75
1:S:636:LYS:O	1:S:637:LYS:HB2	1.86	0.75
1:S:649:VAL:CG1	1:S:649:VAL:CB	2.64	0.75
1:A:218:LEU:HD22	1:A:222:ILE:HG12	1.67	0.75
1:D:732:ILE:N	1:D:733:PRO:HD2	2.00	0.75
1:G:218:LEU:HB2	1:G:221:GLN:CG	2.09	0.75
1:S:792:ALA:HB2	3:U:42:THR:HA	1.45	0.75
4:X:291:LYS:HD2	4:Z:243:PRO:C	2.10	0.75
1:A:623:PHE:CG	1:A:623:PHE:CA	2.68	0.75
1:D:798:LEU:HD12	3:F:126:LEU:HD21	1.68	0.75
1:G:534:SER:O	4:V:351:THR:N	2.20	0.75
1:G:636:LYS:O	1:G:637:LYS:HB2	1.86	0.75
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	0.75
1:G:817:GLN:OE1	2:H:127:ARG:CD	2.29	0.75
1:G:832:MET:SD	2:H:84:PHE:CE2	2.74	0.75
1:M:218:LEU:HD22	1:M:222:ILE:HG12	1.67	0.75
1:S:664:LEU:O	1:S:667:THR:HB	1.86	0.75
4:X:287:ILE:CG1	4:Z:201:VAL:CG2	2.63	0.75
1:A:641:LYS:CE	1:A:647:GLN:CG	2.60	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.75
1:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.75
1:D:732:ILE:CD1	1:D:782:MLY:HH21	2.16	0.75
1:J:664:LEU:O	1:J:667:THR:HB	1.86	0.75
1:J:732:ILE:N	1:J:733:PRO:HD2	2.01	0.75
3:L:3:SER:O	3:L:4:LYS:HB2	1.85	0.75
1:M:350:ALA:O	1:M:354:LEU:HB2	1.87	0.75
1:M:641:LYS:HD2	1:M:647:GLN:OE1	1.81	0.75
1:S:94:MET:CE	1:S:101:ALA:HB1	2.15	0.75
1:S:831:TRP:CZ2	2:T:47:LEU:CD2	2.68	0.75
1:A:538:GLU:OE2	4:8:355:MET:HE2	1.87	0.75
1:D:831:TRP:CZ2	2:E:47:LEU:CD2	2.69	0.75
1:G:481:ASN:HD22	1:G:481:ASN:N	1.82	0.75
2:N:163:ALA:C	2:T:21:GLU:CB	2.57	0.75
1:S:350:ALA:O	1:S:354:LEU:HB2	1.87	0.75
1:S:623:PHE:CG	1:S:623:PHE:CA	2.68	0.75
1:S:803:TYR:O	1:S:807:VAL:HG23	1.86	0.75
4:1:322:PRO:HB3	4:3:244:ASP:CG	2.10	0.75
4:8:288:ASP:H	4:V:203:THR:HG22	1.52	0.75
1:A:753:VAL:HG12	1:A:775:LEU:CD2	2.16	0.75
1:A:838:ILE:CD1	2:B:54:MET:SD	2.74	0.75
2:E:121:LEU:CG	2:E:128:PHE:HA	2.14	0.75
1:G:218:LEU:HB3	1:G:221:GLN:HG3	1.60	0.75
1:G:817:GLN:HB3	2:H:127:ARG:HD3	1.67	0.75
1:J:756:THR:HG22	1:J:776:GLU:CG	2.17	0.75
1:S:481:ASN:HD22	1:S:481:ASN:N	1.82	0.75
4:2:287:ILE:CG2	4:4:203:THR:H	2.00	0.75
4:W:325:MET:CE	4:Y:244:ASP:OD2	2.34	0.75
1:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.75
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	0.75
1:M:84:MLY:CH2	1:M:719:ASP:C	2.60	0.75
1:M:310:TYR:CE2	1:M:320:ILE:HD11	2.22	0.75
1:M:836:PHE:CE2	2:N:160:GLY:CA	2.70	0.75
1:S:796:GLY:HA2	3:U:35:ARG:HD3	0.76	0.75
1:A:664:LEU:O	1:A:667:THR:HB	1.86	0.75
1:D:541:MET:O	4:9:143:TYR:CZ	2.40	0.75
1:J:769:ALA:HB3	1:J:770:GLY:CA	2.15	0.75
1:M:556:ASP:HA	4:2:49:GLN:O	1.69	0.75
1:S:95:THR:HA	1:S:713:SER:HB3	1.68	0.75
1:S:310:TYR:CE2	1:S:320:ILE:HD11	2.22	0.75
4:1:287:ILE:CG2	4:3:203:THR:N	2.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:GLN:NE2	1:A:336:SER:O	2.20	0.75
1:A:218:LEU:HB2	1:A:221:GLN:CG	2.09	0.75
1:A:732:ILE:HG23	1:A:747:LEU:CB	1.85	0.75
1:G:830:PRO:CG	2:H:67:MET:HE2	2.17	0.75
1:M:783:LEU:HA	1:M:786:ILE:CD1	2.13	0.75
1:S:541:MET:O	4:2:143:TYR:CZ	2.40	0.75
1:S:783:LEU:O	1:S:786:ILE:CG1	2.33	0.75
1:S:797:PHE:HE1	3:U:149:VAL:HG12	1.52	0.75
1:S:831:TRP:HE1	2:T:67:MET:CB	1.99	0.75
4:2:203:THR:HG22	4:Z:288:ASP:H	1.52	0.75
4:3:287:ILE:CA	4:5:202:THR:HB	2.17	0.75
4:4:253:GLU:HA	4:4:256:ARG:HG3	1.69	0.75
1:A:541:MET:O	4:8:143:TYR:CZ	2.40	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
1:D:553:MLY:NZ	4:W:45:VAL:HA	1.84	0.74
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.84	0.74
1:J:538:GLU:O	4:W:349:LEU:HG	1.86	0.74
1:J:836:PHE:CE2	2:K:160:GLY:N	2.55	0.74
1:M:538:GLU:OE2	4:Z:355:MET:HE2	1.86	0.74
1:M:721:LYS:CA	1:M:736:GLN:NE2	2.43	0.74
2:N:117:LEU:HB2	2:N:147:ASN:HD21	1.47	0.74
1:S:641:LYS:CE	1:S:647:GLN:CG	2.61	0.74
1:S:783:LEU:HB3	1:S:786:ILE:HD12	1.69	0.74
1:S:819:ASN:OD1	2:T:92:ASP:CB	2.34	0.74
4:4:322:PRO:CB	4:6:244:ASP:HB2	2.16	0.74
4:7:253:GLU:HA	4:7:256:ARG:HG3	1.69	0.74
4:9:288:ASP:H	4:W:203:THR:HG22	1.52	0.74
1:A:295:MLY:HG3	1:A:332:MET:HE2	1.69	0.74
1:A:534:SER:O	4:8:351:THR:N	2.18	0.74
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.74
1:D:664:LEU:O	1:D:667:THR:HB	1.86	0.74
1:G:769:ALA:O	1:G:773:GLY:CA	2.35	0.74
1:G:791:GLN:NE2	3:I:116:GLU:N	2.35	0.74
1:G:829:TRP:CH2	2:H:87:LYS:CE	2.68	0.74
3:I:49:ILE:N	3:I:52:ASN:HD22	1.82	0.74
1:J:537:GLU:HG3	4:W:350:SER:O	1.78	0.74
1:J:826:VAL:HG21	2:K:88:LEU:HD21	1.66	0.74
1:M:541:MET:O	4:Z:143:TYR:CZ	2.40	0.74
1:S:733:PRO:C	1:S:737:PHE:CD1	2.62	0.74
4:6:253:GLU:HA	4:6:256:ARG:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:TYR:CE2	1:A:320:ILE:HD11	2.22	0.74
1:A:436:MLY:HE3	1:A:626:TYR:CE1	2.23	0.74
1:A:830:PRO:HB2	2:B:51:PHE:CZ	2.22	0.74
1:D:795:ARG:CD	3:F:43:ASN:CG	2.59	0.74
2:H:117:LEU:HB2	2:H:147:ASN:HD21	1.47	0.74
1:J:272:MLY:HH13	1:J:435:GLU:OE1	1.88	0.74
1:J:310:TYR:CE2	1:J:320:ILE:HD11	2.22	0.74
1:J:792:ALA:HB2	3:L:42:THR:HG22	0.95	0.74
1:J:795:ARG:HH21	3:L:116:GLU:CD	1.94	0.74
4:2:253:GLU:HA	4:2:256:ARG:HG3	1.69	0.74
4:X:287:ILE:HG23	4:Z:201:VAL:HG23	1.68	0.74
1:M:481:ASN:HD22	1:M:481:ASN:N	1.82	0.74
1:S:215:GLN:NE2	1:S:336:SER:O	2.20	0.74
1:S:793:ARG:HH11	3:U:40:ASN:HB2	1.49	0.74
2:T:121:LEU:CG	2:T:128:PHE:HA	2.14	0.74
4:W:253:GLU:HA	4:W:256:ARG:HG3	1.69	0.74
1:A:636:LYS:O	1:A:637:LYS:HB2	1.86	0.74
1:D:486:MLY:HH13	1:D:527:GLU:OE1	1.88	0.74
1:D:708:ARG:O	1:D:710:GLY:N	2.20	0.74
1:D:797:PHE:CZ	3:F:126:LEU:HD22	2.14	0.74
1:D:829:TRP:HZ3	2:E:84:PHE:HZ	1.34	0.74
1:G:310:TYR:CE2	1:G:320:ILE:HD11	2.22	0.74
1:G:783:LEU:O	1:G:787:ILE:CB	2.35	0.74
1:M:739:ASP:CB	1:M:742:LYS:HB3	2.12	0.74
4:X:287:ILE:HG13	4:Z:201:VAL:HG23	1.69	0.74
4:Y:253:GLU:HA	4:Y:256:ARG:HG3	1.69	0.74
1:A:537:GLU:HG3	4:8:350:SER:O	1.79	0.74
1:A:538:GLU:O	4:8:349:LEU:HG	1.86	0.74
1:A:640:LYS:O	4:8:23:GLY:O	2.06	0.74
1:D:436:MLY:HE3	1:D:626:TYR:CE1	2.23	0.74
3:I:3:SER:O	3:I:4:LYS:HB2	1.84	0.74
1:J:534:SER:O	4:W:351:THR:N	2.19	0.74
1:J:541:MET:O	4:W:143:TYR:CZ	2.40	0.74
1:J:817:GLN:OE1	2:K:127:ARG:HD2	1.87	0.74
1:S:786:ILE:O	1:S:789:ALA:CB	2.35	0.74
1:S:798:LEU:HD11	3:U:126:LEU:HD22	1.60	0.74
1:A:836:PHE:CB	2:B:161:GLU:OE1	2.35	0.74
1:J:636:LYS:O	1:J:637:LYS:HB2	1.86	0.74
1:J:640:LYS:O	4:W:23:GLY:O	2.06	0.74
1:S:272:MLY:HH13	1:S:435:GLU:OE1	1.87	0.74
4:4:322:PRO:CB	4:6:244:ASP:HB3	2.12	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	0.74
1:A:791:GLN:HE22	3:C:115:GLY:C	1.96	0.74
1:D:538:GLU:O	4:9:349:LEU:HG	1.86	0.74
1:D:640:LYS:O	4:9:23:GLY:O	2.06	0.74
1:D:640:LYS:O	1:D:645:SER:OG	2.06	0.74
1:D:747:LEU:HD13	1:D:782:MLY:CH2	2.03	0.74
1:G:350:ALA:O	1:G:354:LEU:HB2	1.87	0.74
1:G:436:MLY:HE3	1:G:626:TYR:CE1	2.23	0.74
1:G:538:GLU:HA	4:V:349:LEU:HD12	0.74	0.74
1:G:541:MET:O	4:V:143:TYR:CZ	2.40	0.74
1:G:707:CYS:SG	1:G:714:ARG:CZ	2.75	0.74
1:G:819:ASN:CB	2:H:90:GLY:O	2.36	0.74
1:J:793:ARG:HH11	3:L:40:ASN:HD22	1.34	0.74
1:M:272:MLY:HH13	1:M:435:GLU:OE1	1.87	0.74
1:M:806:MET:C	1:M:807:VAL:CA	2.60	0.74
2:N:130:PRO:O	2:N:132:GLU:N	2.21	0.74
1:S:732:ILE:N	1:S:733:PRO:CD	2.51	0.74
1:S:820:VAL:HG11	2:T:136:MET:CE	2.18	0.74
4:1:244:ASP:OD2	4:Y:325:MET:CE	2.34	0.74
4:1:253:GLU:HA	4:1:256:ARG:HG3	1.69	0.74
4:7:288:ASP:H	4:9:203:THR:HG22	1.52	0.74
4:9:253:GLU:HA	4:9:256:ARG:HG3	1.70	0.74
4:Z:253:GLU:HA	4:Z:256:ARG:HG3	1.69	0.74
1:A:752:ASP:O	1:A:778:MET:HB3	1.87	0.74
1:G:215:GLN:NE2	1:G:336:SER:O	2.21	0.74
1:G:410:ASN:OD1	4:V:335:ARG:N	2.21	0.74
1:G:641:LYS:HD2	1:G:647:GLN:OE1	1.81	0.74
1:G:732:ILE:N	1:G:733:PRO:CD	2.51	0.74
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.74
1:J:552:ASN:C	4:Y:47:MET:HE1	2.13	0.74
1:M:84:MLY:HH12	1:M:715:VAL:CG2	2.18	0.74
1:M:295:MLY:HG3	1:M:332:MET:HE2	1.69	0.74
1:M:538:GLU:O	4:Z:349:LEU:HG	1.86	0.74
1:M:538:GLU:HA	4:Z:349:LEU:HD12	0.75	0.74
2:N:150:TYR:C	2:N:151:LYS:CG	2.48	0.74
1:S:538:GLU:HA	4:2:349:LEU:HD12	0.75	0.74
1:D:310:TYR:CE2	1:D:320:ILE:HD11	2.23	0.74
1:G:295:MLY:HG3	1:G:332:MET:HE2	1.69	0.74
1:J:215:GLN:NE2	1:J:336:SER:O	2.20	0.74
1:J:538:GLU:HA	4:W:349:LEU:HD12	0.75	0.74
1:J:735:GLY:CA	1:J:743:ALA:HA	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:218:LEU:HB2	1:M:221:GLN:CG	2.09	0.74
1:M:557:GLU:N	4:2:48:GLY:HA3	1.90	0.74
1:M:821:ARG:HH22	2:N:127:ARG:CG	1.93	0.74
1:S:410:ASN:CG	4:2:334:GLU:CA	2.47	0.74
4:1:322:PRO:HB2	4:3:244:ASP:HB3	1.70	0.74
1:A:732:ILE:N	1:A:733:PRO:CD	2.51	0.73
1:D:272:MLY:HH13	1:D:435:GLU:OE1	1.87	0.73
1:D:636:LYS:O	1:D:637:LYS:HB2	1.86	0.73
1:D:732:ILE:N	1:D:733:PRO:CD	2.51	0.73
1:J:486:MLY:HH13	1:J:527:GLU:OE1	1.88	0.73
2:K:130:PRO:O	2:K:132:GLU:N	2.21	0.73
1:M:732:ILE:N	1:M:733:PRO:CD	2.51	0.73
1:S:486:MLY:HH13	1:S:527:GLU:OE1	1.88	0.73
1:S:836:PHE:CD2	2:T:160:GLY:HA3	2.21	0.73
4:X:253:GLU:HA	4:X:256:ARG:HG3	1.70	0.73
1:A:736:GLN:HA	1:A:743:ALA:HB2	1.51	0.73
1:D:538:GLU:HA	4:9:349:LEU:HD12	0.74	0.73
1:J:409:GLY:HA3	4:W:333:PRO:N	2.03	0.73
1:J:436:MLY:HE3	1:J:626:TYR:CE1	2.23	0.73
1:J:529:PRO:C	4:W:354:GLN:CB	2.48	0.73
1:J:732:ILE:N	1:J:733:PRO:CD	2.51	0.73
1:M:735:GLY:CA	1:M:743:ALA:HA	2.18	0.73
1:S:218:LEU:HB2	1:S:221:GLN:CG	2.09	0.73
1:S:786:ILE:CA	1:S:787:ILE:N	2.50	0.73
4:V:253:GLU:HA	4:V:256:ARG:HG3	1.69	0.73
1:A:550:PHE:HA	4:V:46:GLY:HA3	1.66	0.73
1:D:487:LEU:O	1:D:490:PHE:HB3	1.88	0.73
1:D:534:SER:CA	4:9:351:THR:HA	2.19	0.73
2:E:130:PRO:O	2:E:132:GLU:N	2.21	0.73
1:G:735:GLY:CA	1:G:743:ALA:HA	2.18	0.73
1:J:487:LEU:O	1:J:490:PHE:HB3	1.89	0.73
1:J:640:LYS:O	1:J:645:SER:OG	2.06	0.73
3:L:24:LYS:CA	3:L:63:ILE:O	2.37	0.73
3:L:48:LYS:C	3:L:52:ASN:HD21	1.97	0.73
1:M:486:MLY:HH13	1:M:527:GLU:OE1	1.88	0.73
1:M:831:TRP:HE1	2:N:67:MET:HB3	1.53	0.73
1:S:92:ALA:CB	1:S:764:MLY:HH12	2.17	0.73
1:S:795:ARG:NH2	3:U:116:GLU:CG	2.51	0.73
1:S:805:ALA:HA	1:S:808:GLU:N	2.04	0.73
4:X:286:ASP:OD1	4:Z:202:THR:C	2.31	0.73
4:X:287:ILE:HG12	4:Z:201:VAL:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:130:PRO:O	2:B:132:GLU:N	2.21	0.73
3:C:4:LYS:N	3:C:5:ALA:O	2.17	0.73
1:D:507:GLY:CA	1:D:762:HIS:CD2	2.71	0.73
1:D:538:GLU:OE2	4:9:355:MET:HE2	1.87	0.73
1:G:486:MLY:HH13	1:G:527:GLU:OE1	1.88	0.73
1:J:817:GLN:CG	2:K:127:ARG:CG	2.54	0.73
1:J:826:VAL:HG21	2:K:88:LEU:HD23	1.69	0.73
1:M:190:MLY:HE3	1:M:230:GLU:OE2	1.89	0.73
1:M:409:GLY:HA3	4:Z:333:PRO:N	2.03	0.73
1:M:436:MLY:HE3	1:M:626:TYR:CE1	2.23	0.73
1:M:802:GLU:O	1:M:806:MET:HG3	1.89	0.73
1:S:190:MLY:HE3	1:S:230:GLU:OE2	1.89	0.73
1:A:272:MLY:HH13	1:A:435:GLU:OE1	1.88	0.73
1:A:409:GLY:HA3	4:8:333:PRO:N	2.03	0.73
1:A:410:ASN:OD1	4:8:335:ARG:N	2.22	0.73
1:A:530:MET:CE	4:8:355:MET:SD	2.76	0.73
1:A:538:GLU:HA	4:8:349:LEU:HD12	0.74	0.73
1:D:295:MLY:HG3	1:D:332:MET:HE2	1.69	0.73
1:D:726:VAL:O	1:D:785:GLU:CG	2.36	0.73
1:D:838:ILE:HD11	2:E:54:MET:SD	2.28	0.73
3:F:24:LYS:CA	3:F:63:ILE:O	2.37	0.73
1:G:503:TYR:CE1	1:G:711:PHE:HE2	2.04	0.73
1:G:506:GLU:OE2	1:G:760:PHE:O	2.07	0.73
1:G:643:GLY:N	4:V:24:ASP:CA	2.47	0.73
1:M:410:ASN:OD1	4:Z:335:ARG:N	2.21	0.73
1:M:786:ILE:C	1:M:787:ILE:C	2.56	0.73
1:M:831:TRP:HZ3	2:N:34:ILE:HD13	1.53	0.73
1:S:802:GLU:O	1:S:806:MET:HG3	1.88	0.73
2:T:130:PRO:O	2:T:132:GLU:N	2.21	0.73
3:U:48:LYS:C	3:U:52:ASN:HD21	1.96	0.73
4:3:253:GLU:HA	4:3:256:ARG:HG3	1.70	0.73
4:3:322:PRO:CB	4:5:244:ASP:HB2	2.16	0.73
4:4:287:ILE:HG21	4:6:204:ALA:H	1.54	0.73
4:4:287:ILE:CA	4:6:202:THR:HB	2.17	0.73
1:A:441:MET:O	1:A:445:ILE:HG13	1.88	0.73
3:C:24:LYS:CA	3:C:63:ILE:O	2.37	0.73
1:D:237:THR:HG22	1:D:239:ARG:H	1.54	0.73
1:G:441:MET:O	1:G:445:ILE:HG13	1.88	0.73
1:J:538:GLU:OE2	4:W:355:MET:HE2	1.86	0.73
1:M:218:LEU:HB3	1:M:221:GLN:HG3	1.61	0.73
1:M:487:LEU:O	1:M:490:PHE:HB3	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:295:MLY:HG3	1:S:332:MET:HE2	1.69	0.73
1:S:546:THR:CB	4:4:47:MET:O	2.37	0.73
1:S:820:VAL:HG11	2:T:136:MET:HE3	1.71	0.73
4:3:287:ILE:HB	4:5:203:THR:CG2	2.19	0.73
1:A:536:LEU:HD13	1:A:550:PHE:CZ	2.24	0.73
1:A:542:PHE:CD2	4:8:143:TYR:CE1	2.77	0.73
1:D:536:LEU:HD13	1:D:550:PHE:CZ	2.24	0.73
1:G:536:LEU:HD13	1:G:550:PHE:CZ	2.23	0.73
1:M:95:THR:N	1:M:713:SER:HB3	2.04	0.73
1:M:215:GLN:NE2	1:M:336:SER:O	2.21	0.73
1:S:546:THR:CG2	4:4:46:GLY:C	2.62	0.73
4:2:287:ILE:HG23	4:4:202:THR:HB	1.71	0.73
4:7:290:ARG:HH22	4:9:202:THR:HG23	1.51	0.73
1:G:21:GLU:O	1:G:25:ILE:HG13	1.89	0.73
1:G:84:MLY:CD	1:G:723:ARG:HD2	2.16	0.73
1:G:272:MLY:HH13	1:G:435:GLU:OE1	1.88	0.73
1:G:802:GLU:O	1:G:806:MET:HG3	1.89	0.73
1:G:829:TRP:CZ3	2:H:84:PHE:CZ	2.77	0.73
1:J:21:GLU:O	1:J:25:ILE:HG13	1.89	0.73
1:J:295:MLY:HG3	1:J:332:MET:HE2	1.69	0.73
1:J:536:LEU:HD13	1:J:550:PHE:CZ	2.24	0.73
1:S:735:GLY:CA	1:S:743:ALA:HA	2.18	0.73
4:8:253:GLU:HA	4:8:256:ARG:HG3	1.69	0.73
1:A:21:GLU:O	1:A:25:ILE:HG13	1.88	0.73
1:A:350:ALA:O	1:A:354:LEU:HB2	1.87	0.73
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.73
1:D:542:PHE:HA	4:9:143:TYR:HE1	1.34	0.73
1:G:538:GLU:OE2	4:V:355:MET:HE2	1.87	0.73
1:G:753:VAL:N	1:G:780:ASP:OD1	2.21	0.73
1:J:839:MLY:HH13	2:K:159:HIS:CD2	2.23	0.73
1:S:21:GLU:O	1:S:25:ILE:HG13	1.88	0.73
1:S:214:MET:HA	1:S:340:ILE:HD11	1.70	0.73
1:S:536:LEU:HD13	1:S:550:PHE:CZ	2.24	0.73
1:S:821:ARG:HH22	2:T:127:ARG:HE	1.35	0.73
1:A:190:MLY:HE3	1:A:230:GLU:OE2	1.89	0.73
1:D:735:GLY:CA	1:D:743:ALA:HA	2.18	0.73
1:D:814:PHE:HD1	2:E:127:ARG:HH12	1.13	0.73
1:G:237:THR:HG22	1:G:239:ARG:H	1.54	0.73
3:I:24:LYS:CA	3:I:63:ILE:O	2.37	0.73
1:J:542:PHE:HA	4:W:143:TYR:HE1	1.34	0.73
1:M:534:SER:CA	4:Z:351:THR:HA	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:436:MLY:HE3	1:S:626:TYR:CE1	2.23	0.73
1:S:487:LEU:O	1:S:490:PHE:HB3	1.88	0.73
1:S:538:GLU:O	4:2:349:LEU:HG	1.86	0.73
1:A:486:MLY:HH13	1:A:527:GLU:OE1	1.88	0.72
1:A:802:GLU:O	1:A:806:MET:HG3	1.89	0.72
1:D:190:MLY:HE3	1:D:230:GLU:OE2	1.89	0.72
1:D:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.72
1:G:534:SER:C	4:V:351:THR:CA	2.48	0.72
2:H:130:PRO:O	2:H:132:GLU:N	2.21	0.72
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	0.72
1:J:530:MET:CE	4:W:355:MET:SD	2.77	0.72
1:J:534:SER:CA	4:W:351:THR:HA	2.19	0.72
1:S:786:ILE:C	1:S:788:THR:N	2.47	0.72
4:5:253:GLU:HA	4:5:256:ARG:HG3	1.69	0.72
1:A:36:SER:O	1:A:52:ILE:HG12	1.90	0.72
1:A:501:GLU:CG	1:A:762:HIS:ND1	2.37	0.72
1:D:409:GLY:HA3	4:9:333:PRO:N	2.03	0.72
3:F:48:LYS:C	3:F:52:ASN:HD21	1.97	0.72
1:G:487:LEU:O	1:G:490:PHE:HB3	1.89	0.72
1:G:769:ALA:HB3	1:G:770:GLY:HA2	0.75	0.72
1:J:95:THR:CA	1:J:713:SER:OG	2.30	0.72
1:J:556:ASP:CG	4:Y:47:MET:HE2	1.84	0.72
1:M:214:MET:HA	1:M:340:ILE:HD11	1.70	0.72
1:S:441:MET:O	1:S:445:ILE:HG13	1.88	0.72
1:S:640:LYS:O	4:2:23:GLY:O	2.06	0.72
3:U:24:LYS:CA	3:U:63:ILE:O	2.37	0.72
4:3:3:ASP:HA	4:3:6:THR:CB	2.18	0.72
4:8:3:ASP:HA	4:8:6:THR:CB	2.18	0.72
4:X:287:ILE:HG12	4:Z:201:VAL:CG2	2.18	0.72
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.66	0.72
1:D:214:MET:HA	1:D:340:ILE:HD11	1.70	0.72
1:D:530:MET:CE	4:9:355:MET:SD	2.76	0.72
1:G:84:MLY:HH21	1:G:719:ASP:C	2.12	0.72
1:G:93:MET:HA	1:G:714:ARG:N	2.03	0.72
1:G:190:MLY:HE3	1:G:230:GLU:OE2	1.89	0.72
1:G:519:LEU:HD12	1:G:519:LEU:N	2.05	0.72
1:G:618:THR:O	1:G:622:LEU:HD13	1.89	0.72
1:G:831:TRP:CH2	2:H:47:LEU:HD23	2.19	0.72
2:H:117:LEU:HD12	2:H:147:ASN:CA	2.20	0.72
1:J:441:MET:O	1:J:445:ILE:HG13	1.88	0.72
1:J:795:ARG:C	3:L:35:ARG:CZ	2.63	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:802:GLU:O	1:J:806:MET:HG3	1.89	0.72
1:M:441:MET:O	1:M:445:ILE:HG13	1.88	0.72
1:M:542:PHE:CD2	4:Z:143:TYR:CE1	2.77	0.72
1:S:237:THR:HG22	1:S:239:ARG:H	1.54	0.72
1:S:410:ASN:OD1	4:2:335:ARG:N	2.21	0.72
1:S:519:LEU:N	1:S:519:LEU:HD12	2.04	0.72
1:S:542:PHE:CD2	4:2:143:TYR:CE1	2.77	0.72
1:A:176:LEU:N	1:A:176:LEU:HD12	2.05	0.72
1:A:534:SER:CA	4:8:351:THR:HA	2.18	0.72
1:D:36:SER:O	1:D:52:ILE:HG12	1.90	0.72
1:D:769:ALA:N	1:D:771:LEU:HA	2.05	0.72
1:D:800:ARG:O	3:F:149:VAL:CG2	2.37	0.72
1:D:836:PHE:CZ	2:E:160:GLY:CA	2.72	0.72
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	0.72
1:G:534:SER:CA	4:V:351:THR:HA	2.19	0.72
1:J:36:SER:O	1:J:52:ILE:HG12	1.90	0.72
1:J:797:PHE:HE2	3:L:126:LEU:CD1	2.01	0.72
2:N:121:LEU:CG	2:N:128:PHE:HA	2.14	0.72
1:S:409:GLY:HA3	4:2:333:PRO:N	2.03	0.72
1:S:754:ASP:HB3	1:S:757:GLN:HG2	1.72	0.72
4:7:290:ARG:NH1	4:9:202:THR:CG2	2.49	0.72
1:A:487:LEU:O	1:A:490:PHE:HB3	1.89	0.72
1:D:618:THR:O	1:D:622:LEU:HD13	1.89	0.72
1:D:836:PHE:CZ	2:E:159:HIS:CA	2.72	0.72
1:G:214:MET:HA	1:G:340:ILE:HD11	1.70	0.72
1:G:409:GLY:HA3	4:V:333:PRO:N	2.03	0.72
1:J:214:MET:HA	1:J:340:ILE:HD11	1.70	0.72
1:M:84:MLY:CH1	1:M:715:VAL:HG22	2.19	0.72
1:M:536:LEU:HD13	1:M:550:PHE:CZ	2.24	0.72
1:M:550:PHE:HA	4:2:46:GLY:HA3	1.66	0.72
1:M:618:THR:O	1:M:622:LEU:HD13	1.89	0.72
1:S:120:GLY:HA2	1:S:764:MLY:HH11	1.71	0.72
1:S:546:THR:OG1	4:4:46:GLY:N	2.22	0.72
1:S:762:HIS:CD2	1:S:762:HIS:H	2.08	0.72
4:1:287:ILE:HG23	4:3:202:THR:HB	0.80	0.72
4:X:324:THR:HB	4:Z:246:GLN:CA	2.20	0.72
1:A:93:MET:HE2	1:A:715:VAL:CB	2.19	0.72
1:A:735:GLY:CA	1:A:743:ALA:HA	2.18	0.72
2:B:144:VAL:CB	2:B:153:ILE:HD11	2.19	0.72
1:D:819:ASN:O	2:E:157:ILE:HG23	1.90	0.72
1:G:753:VAL:C	1:G:779:ARG:HD3	2.13	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:519:LEU:N	1:M:519:LEU:HD12	2.04	0.72
1:M:530:MET:CE	4:Z:355:MET:SD	2.77	0.72
1:M:783:LEU:CD2	1:M:786:ILE:CD1	2.66	0.72
2:T:144:VAL:CB	2:T:153:ILE:HD11	2.19	0.72
4:4:166:TYR:OH	4:4:64:ILE:HD13	1.89	0.72
4:4:3:ASP:HA	4:4:6:THR:CB	2.17	0.72
4:W:287:ILE:HD11	4:Y:201:VAL:O	1.76	0.72
1:A:295:MLY:HG3	1:A:332:MET:CE	2.19	0.72
1:A:798:LEU:CD1	3:C:126:LEU:CD1	2.63	0.72
1:D:727:LEU:CG	1:D:782:MLY:CH1	2.66	0.72
1:D:795:ARG:CD	3:F:35:ARG:HH12	2.02	0.72
1:G:36:SER:O	1:G:52:ILE:HG12	1.90	0.72
1:G:754:ASP:C	1:G:776:GLU:OE1	2.09	0.72
1:G:829:TRP:CZ3	2:H:84:PHE:CE1	2.78	0.72
1:J:797:PHE:HE1	3:L:146:ILE:HA	1.54	0.72
1:M:35:MLY:HE2	1:M:777:GLU:HG3	1.70	0.72
3:O:24:LYS:CA	3:O:63:ILE:O	2.37	0.72
1:A:618:THR:O	1:A:622:LEU:HD13	1.89	0.72
1:A:640:LYS:O	1:A:645:SER:OG	2.06	0.72
1:A:754:ASP:HB3	1:A:757:GLN:HG2	1.72	0.72
1:G:14:ALA:HB3	1:G:15:PRO:HD3	1.72	0.72
1:G:538:GLU:O	4:V:349:LEU:HG	1.87	0.72
1:M:295:MLY:HG3	1:M:332:MET:CE	2.19	0.72
1:S:176:LEU:N	1:S:176:LEU:HD12	2.05	0.72
1:S:534:SER:CA	4:2:351:THR:HA	2.19	0.72
1:S:751:GLY:C	1:S:779:ARG:HH22	1.97	0.72
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.50	0.72
4:X:324:THR:HB	4:Z:247:VAL:H	1.55	0.72
1:A:530:MET:HE3	4:8:355:MET:SD	2.30	0.72
1:A:791:GLN:OE1	3:C:116:GLU:CG	2.36	0.72
1:D:519:LEU:HD12	1:D:519:LEU:N	2.05	0.72
1:D:550:PHE:HA	4:W:46:GLY:HA3	1.66	0.72
1:D:556:ASP:HA	4:W:49:GLN:O	1.70	0.72
2:E:144:VAL:CB	2:E:153:ILE:HD11	2.19	0.72
1:G:295:MLY:HG3	1:G:332:MET:CE	2.20	0.72
1:G:552:ASN:C	4:X:47:MET:HE1	2.14	0.72
1:G:640:LYS:O	4:V:23:GLY:O	2.06	0.72
1:G:795:ARG:CZ	3:I:116:GLU:CG	2.68	0.72
1:J:542:PHE:CD2	4:W:143:TYR:CE1	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.72
1:S:537:GLU:C	4:2:351:THR:H	1.98	0.72
1:S:839:MLY:CH2	2:T:158:THR:HG22	2.19	0.72
4:2:3:ASP:HA	4:2:6:THR:CB	2.18	0.72
1:D:441:MET:O	1:D:445:ILE:HG13	1.88	0.72
1:D:709:LYS:O	1:D:710:GLY:HA2	1.88	0.72
1:G:530:MET:CE	4:V:355:MET:SD	2.78	0.72
2:H:144:VAL:CB	2:H:153:ILE:HD11	2.19	0.72
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	0.72
1:J:818:TYR:CG	2:K:127:ARG:NH1	2.58	0.72
1:S:486:MLY:HH22	1:S:527:GLU:OE2	1.90	0.72
1:S:836:PHE:CD1	2:T:160:GLY:N	2.58	0.72
1:A:237:THR:HG22	1:A:239:ARG:H	1.54	0.71
1:A:753:VAL:CG1	1:A:775:LEU:CD2	2.68	0.71
1:D:797:PHE:CE1	3:F:146:ILE:CB	2.71	0.71
1:D:802:GLU:O	1:D:806:MET:HG3	1.89	0.71
1:G:84:MLY:CH1	1:G:724:TYR:HE2	2.02	0.71
1:G:640:LYS:O	1:G:645:SER:OG	2.06	0.71
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.47	0.71
1:G:797:PHE:HE1	3:I:146:ILE:HA	1.55	0.71
3:I:48:LYS:C	3:I:52:ASN:HD21	1.97	0.71
1:J:641:LYS:HD2	1:J:647:GLN:OE1	1.81	0.71
1:J:818:TYR:CD1	2:K:127:ARG:CZ	2.73	0.71
1:M:640:LYS:O	4:Z:23:GLY:O	2.06	0.71
2:N:136:MET:O	2:N:140:PHE:HB2	1.90	0.71
2:N:144:VAL:CB	2:N:153:ILE:HD11	2.19	0.71
3:O:48:LYS:C	3:O:52:ASN:HD21	1.96	0.71
1:S:14:ALA:HB3	1:S:15:PRO:HD3	1.72	0.71
1:S:530:MET:CE	4:2:355:MET:SD	2.77	0.71
1:S:732:ILE:HG23	1:S:747:LEU:CB	1.84	0.71
1:S:806:MET:C	1:S:807:VAL:N	2.47	0.71
1:A:97:LEU:HD23	1:A:712:PRO:CB	2.14	0.71
2:B:117:LEU:HD12	2:B:147:ASN:CA	2.20	0.71
1:D:410:ASN:OD1	4:9:335:ARG:N	2.22	0.71
2:E:136:MET:O	2:E:140:PHE:HB2	1.90	0.71
1:J:519:LEU:HD12	1:J:519:LEU:N	2.04	0.71
1:J:537:GLU:C	4:W:351:THR:H	1.98	0.71
1:M:36:SER:O	1:M:52:ILE:HG12	1.89	0.71
1:S:791:GLN:HE22	3:U:115:GLY:C	1.98	0.71
1:S:798:LEU:HD22	3:U:126:LEU:HD11	1.65	0.71
4:4:287:ILE:HB	4:6:203:THR:CG2	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:530:MET:HE3	4:9:355:MET:SD	2.30	0.71
1:D:641:LYS:HD2	4:9:348:SER:HA	1.73	0.71
1:J:295:MLY:HG3	1:J:332:MET:CE	2.19	0.71
1:J:801:VAL:CG2	3:L:126:LEU:HD21	2.21	0.71
2:K:144:VAL:CB	2:K:153:ILE:HD11	2.19	0.71
1:M:176:LEU:HD12	1:M:176:LEU:N	2.05	0.71
1:S:36:SER:O	1:S:52:ILE:HG12	1.90	0.71
1:S:295:MLY:HG3	1:S:332:MET:CE	2.19	0.71
1:S:618:THR:O	1:S:622:LEU:HD13	1.89	0.71
4:3:322:PRO:HB2	4:5:244:ASP:CB	2.08	0.71
4:6:3:ASP:HA	4:6:6:THR:CB	2.18	0.71
4:8:290:ARG:HH22	4:V:202:THR:HG23	1.50	0.71
1:A:149:GLN:NE2	1:A:718:ALA:HB2	2.06	0.71
1:A:486:MLY:HH22	1:A:527:GLU:OE2	1.90	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:295:MLY:HG3	1:D:332:MET:CE	2.20	0.71
1:J:817:GLN:HB3	2:K:127:ARG:NH1	2.05	0.71
1:M:14:ALA:HB3	1:M:15:PRO:HD3	1.73	0.71
4:Z:3:ASP:HA	4:Z:6:THR:CB	2.18	0.71
1:A:93:MET:SD	1:A:715:VAL:HG22	2.31	0.71
1:A:754:ASP:OD2	1:A:774:LEU:CD2	2.38	0.71
1:D:217:THR:O	1:D:220:ASP:HB2	1.90	0.71
1:G:217:THR:O	1:G:220:ASP:HB2	1.91	0.71
1:G:834:LEU:HD12	2:H:51:PHE:CE1	2.24	0.71
2:H:136:MET:O	2:H:140:PHE:HB2	1.90	0.71
1:J:754:ASP:HB3	1:J:757:GLN:HG2	1.72	0.71
1:J:793:ARG:HH21	3:L:147:MET:HE3	1.54	0.71
1:M:21:GLU:O	1:M:25:ILE:HG13	1.89	0.71
1:S:245:ARG:HD3	1:S:271:GLU:OE1	1.90	0.71
1:S:783:LEU:CA	1:S:786:ILE:CD1	2.68	0.71
1:S:831:TRP:HH2	2:T:47:LEU:HD23	1.48	0.71
3:U:4:LYS:N	3:U:5:ALA:O	2.16	0.71
4:9:3:ASP:HA	4:9:6:THR:CB	2.18	0.71
1:A:14:ALA:HB3	1:A:15:PRO:HD3	1.72	0.71
1:A:217:THR:O	1:A:220:ASP:HB2	1.91	0.71
1:A:831:TRP:CH2	2:B:50:THR:CB	2.70	0.71
3:F:4:LYS:N	3:F:5:ALA:O	2.16	0.71
1:G:274:ARG:NH2	1:G:282:GLU:OE1	2.24	0.71
1:J:237:THR:HG22	1:J:239:ARG:H	1.54	0.71
1:J:274:ARG:NH2	1:J:282:GLU:OE1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:641:LYS:HD2	4:W:348:SER:HA	1.73	0.71
1:M:486:MLY:HH22	1:M:527:GLU:OE2	1.90	0.71
1:M:541:MET:HG2	4:Z:345:ILE:C	2.16	0.71
1:M:641:LYS:HD2	4:Z:348:SER:HA	1.72	0.71
1:M:802:GLU:OE2	1:M:809:ARG:NH1	2.23	0.71
2:N:117:LEU:HD12	2:N:147:ASN:CA	2.19	0.71
4:X:3:ASP:HA	4:X:6:THR:CB	2.17	0.71
1:A:818:TYR:HB2	2:B:90:GLY:CA	2.19	0.71
1:A:831:TRP:CD2	2:B:51:PHE:CZ	2.78	0.71
1:D:86:ASP:OD2	1:D:87:MLY:HH13	1.91	0.71
1:D:508:ILE:HG12	1:D:766:PHE:CE1	2.26	0.71
1:D:823:PHE:CZ	2:E:156:VAL:CG1	2.73	0.71
1:G:542:PHE:CD2	4:V:143:TYR:CE1	2.77	0.71
1:G:753:VAL:C	1:G:779:ARG:HH11	1.91	0.71
1:G:762:HIS:H	1:G:762:HIS:CD2	2.07	0.71
1:J:86:ASP:OD2	1:J:87:MLY:HH13	1.91	0.71
1:J:217:THR:O	1:J:220:ASP:HB2	1.91	0.71
1:J:541:MET:HG2	4:W:345:ILE:C	2.16	0.71
1:M:86:ASP:OD2	1:M:87:MLY:HH13	1.91	0.71
1:M:537:GLU:C	4:Z:351:THR:H	1.98	0.71
1:S:56:GLU:CB	1:S:59:MLY:HB3	2.19	0.71
1:S:546:THR:HG22	1:S:548:THR:N	2.05	0.71
1:S:786:ILE:O	1:S:789:ALA:HB3	1.90	0.71
1:S:795:ARG:CB	3:U:35:ARG:NH1	2.53	0.71
1:A:641:LYS:HD2	4:8:348:SER:HA	1.73	0.71
1:A:800:ARG:HD2	3:C:149:VAL:O	1.90	0.71
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.20	0.71
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.73	0.71
1:M:245:ARG:HD3	1:M:271:GLU:OE1	1.90	0.71
1:M:791:GLN:CD	3:O:116:GLU:H	1.96	0.71
1:S:734:GLU:OE2	3:U:94:PHE:CE2	2.43	0.71
1:S:820:VAL:HG13	2:T:136:MET:HE1	1.71	0.71
2:T:117:LEU:HD12	2:T:147:ASN:CA	2.19	0.71
4:7:3:ASP:HA	4:7:6:THR:CB	2.18	0.71
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.73	0.71
1:A:214:MET:HA	1:A:340:ILE:HD11	1.71	0.71
1:A:274:ARG:NH2	1:A:282:GLU:OE1	2.24	0.71
2:B:136:MET:O	2:B:140:PHE:HB2	1.90	0.71
1:D:709:LYS:C	1:D:710:GLY:CA	2.63	0.71
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.71
1:G:537:GLU:C	4:V:351:THR:H	1.99	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:56:GLU:CB	1:J:59:MLY:HB3	2.19	0.71
1:M:237:THR:HG22	1:M:239:ARG:H	1.54	0.71
1:A:86:ASP:OD2	1:A:87:MLY:HH13	1.91	0.71
1:A:206:LYS:HD3	1:A:217:THR:HG23	0.71	0.71
1:A:732:ILE:HG21	1:A:747:LEU:HD11	0.73	0.71
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.73	0.71
1:D:739:ASP:CB	1:D:742:LYS:HB3	2.12	0.71
1:D:754:ASP:HB3	1:D:757:GLN:HG2	1.72	0.71
1:J:72:VAL:HG13	1:J:76:GLN:CB	2.19	0.71
1:J:176:LEU:HD12	1:J:176:LEU:N	2.05	0.71
1:J:486:MLY:HH22	1:J:527:GLU:OE2	1.90	0.71
1:J:546:THR:HG22	1:J:548:THR:N	2.05	0.71
2:K:150:TYR:C	2:K:151:LYS:CG	2.48	0.71
1:M:35:MLY:CH2	1:M:777:GLU:CG	2.50	0.71
1:M:56:GLU:CB	1:M:59:MLY:HB3	2.19	0.71
1:M:640:LYS:O	1:M:645:SER:OG	2.06	0.71
1:S:641:LYS:HD2	4:2:348:SER:HA	1.73	0.71
1:S:819:ASN:OD1	2:T:92:ASP:HB2	1.89	0.71
4:2:290:ARG:HH22	4:4:202:THR:HG22	1.51	0.71
4:V:286:ASP:OD1	4:X:203:THR:N	2.23	0.71
1:A:519:LEU:HD12	1:A:519:LEU:N	2.04	0.70
1:A:768:MLY:CG	1:A:771:LEU:HD13	2.21	0.70
1:A:800:ARG:NH2	3:C:40:ASN:OD1	2.24	0.70
1:D:541:MET:HG2	4:9:345:ILE:C	2.16	0.70
1:D:727:LEU:HB3	1:D:782:MLY:HH13	1.64	0.70
1:G:641:LYS:HD2	4:V:348:SER:HA	1.73	0.70
2:H:150:TYR:C	2:H:151:LYS:CG	2.48	0.70
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.70
1:M:35:MLY:CE	1:M:777:GLU:CD	2.63	0.70
1:M:274:ARG:NH2	1:M:282:GLU:OE1	2.24	0.70
1:M:796:GLY:HA2	3:O:35:ARG:CD	2.20	0.70
4:2:112:PRO:CB	4:3:196:ARG:HA	2.11	0.70
4:W:286:ASP:OD1	4:Y:203:THR:N	2.23	0.70
1:A:72:VAL:HG13	1:A:76:GLN:CB	2.19	0.70
1:A:245:ARG:HD3	1:A:271:GLU:OE1	1.90	0.70
1:D:245:ARG:HD3	1:D:271:GLU:OE1	1.90	0.70
1:D:274:ARG:NH2	1:D:282:GLU:OE1	2.24	0.70
1:D:798:LEU:CD1	3:F:126:LEU:HD13	2.14	0.70
1:G:795:ARG:HH21	3:I:116:GLU:CA	2.03	0.70
1:J:14:ALA:HB3	1:J:15:PRO:HD3	1.73	0.70
1:J:797:PHE:HE2	3:L:126:LEU:HD22	1.52	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:4:LYS:N	3:L:5:ALA:O	2.16	0.70
1:M:530:MET:HE3	4:Z:355:MET:SD	2.30	0.70
1:M:821:ARG:NH2	2:N:127:ARG:CD	2.54	0.70
1:S:206:LYS:HD3	1:S:217:THR:HG23	0.71	0.70
1:S:541:MET:HG2	4:2:345:ILE:C	2.16	0.70
1:D:14:ALA:HB3	1:D:15:PRO:HD3	1.72	0.70
1:D:486:MLY:HH22	1:D:527:GLU:OE2	1.90	0.70
1:D:537:GLU:C	4:9:351:THR:H	1.98	0.70
1:J:166:MET:HE1	1:J:254:PHE:HB2	1.74	0.70
1:S:577:ALA:O	1:S:578:HIS:CG	2.45	0.70
4:V:3:ASP:HA	4:V:6:THR:CB	2.18	0.70
1:A:546:THR:HG22	1:A:548:THR:N	2.05	0.70
1:A:762:HIS:CD2	1:A:762:HIS:H	2.08	0.70
1:A:809:ARG:NH1	2:B:124:GLY:CA	2.54	0.70
1:D:166:MET:HE1	1:D:254:PHE:HD2	1.56	0.70
1:D:176:LEU:HD12	1:D:176:LEU:N	2.05	0.70
1:D:206:LYS:HD3	1:D:217:THR:HG23	0.71	0.70
1:D:823:PHE:HE1	2:E:160:GLY:CA	2.04	0.70
1:G:176:LEU:HD12	1:G:176:LEU:N	2.05	0.70
1:G:579:PHE:HD2	1:G:592:ILE:HD11	1.57	0.70
1:J:206:LYS:HD3	1:J:217:THR:HG23	0.70	0.70
1:J:245:ARG:HD3	1:J:271:GLU:OE1	1.90	0.70
1:J:739:ASP:CB	1:J:742:LYS:HB3	2.12	0.70
1:J:831:TRP:CZ3	2:K:34:ILE:HD13	2.25	0.70
1:M:754:ASP:HB3	1:M:757:GLN:HG2	1.72	0.70
1:M:818:TYR:CD1	2:N:127:ARG:CZ	2.74	0.70
1:S:217:THR:O	1:S:220:ASP:HB2	1.91	0.70
1:S:530:MET:HE3	4:2:355:MET:SD	2.30	0.70
1:S:786:ILE:CG2	1:S:787:ILE:N	2.54	0.70
1:S:836:PHE:CE1	2:T:159:HIS:C	2.69	0.70
3:U:48:LYS:O	3:U:52:ASN:CG	2.34	0.70
4:1:203:THR:N	4:Y:286:ASP:OD1	2.23	0.70
4:X:286:ASP:OD1	4:Z:203:THR:N	2.24	0.70
1:A:123:CYS:HB2	1:A:158:ILE:HD11	1.73	0.70
1:A:149:GLN:CG	1:A:718:ALA:HB3	2.21	0.70
1:A:579:PHE:HD2	1:A:592:ILE:HD11	1.57	0.70
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
1:G:541:MET:HG2	4:V:345:ILE:C	2.17	0.70
3:I:25:ILE:O	3:I:63:ILE:HB	1.92	0.70
1:J:93:MET:CE	1:J:716:LEU:HD12	2.17	0.70
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:579:PHE:HD2	1:J:592:ILE:HD11	1.57	0.70
1:S:549:SER:CB	4:4:43:VAL:HG11	2.20	0.70
1:S:640:LYS:O	1:S:645:SER:OG	2.06	0.70
1:S:793:ARG:NE	3:U:40:ASN:ND2	2.39	0.70
2:T:136:MET:O	2:T:140:PHE:HB2	1.90	0.70
4:Y:3:ASP:HA	4:Y:6:THR:CB	2.18	0.70
1:G:546:THR:HG22	1:G:548:THR:N	2.05	0.70
1:J:530:MET:HE3	4:W:355:MET:SD	2.30	0.70
1:S:786:ILE:HG22	1:S:787:ILE:N	2.07	0.70
1:S:797:PHE:HE2	3:U:126:LEU:HD22	1.56	0.70
1:S:819:ASN:OD1	2:T:91:ALA:C	2.32	0.70
1:A:793:ARG:HE	3:C:147:MET:HG2	1.56	0.70
1:D:72:VAL:HG13	1:D:76:GLN:CB	2.19	0.70
1:D:727:LEU:H	1:D:782:MLY:CE	2.05	0.70
1:D:829:TRP:CZ3	2:E:84:PHE:HZ	2.09	0.70
3:F:25:ILE:O	3:F:63:ILE:HB	1.92	0.70
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.70
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	0.70
1:G:530:MET:HE3	4:V:355:MET:SD	2.31	0.70
1:J:97:LEU:HD23	1:J:712:PRO:HB3	1.74	0.70
1:J:630:ALA:O	4:W:25:ASP:HB2	1.91	0.70
1:M:577:ALA:O	1:M:578:HIS:CG	2.45	0.70
1:M:762:HIS:H	1:M:762:HIS:CD2	2.07	0.70
1:S:534:SER:C	4:2:351:THR:CA	2.47	0.70
2:T:121:LEU:CG	2:T:128:PHE:CA	2.49	0.70
4:4:288:ASP:H	4:6:203:THR:CG2	2.02	0.70
4:Z:1:ASP:HA	4:Z:4:GLU:HB3	1.74	0.70
1:A:541:MET:HG2	4:8:345:ILE:C	2.16	0.70
1:A:800:ARG:C	3:C:149:VAL:CG2	2.65	0.70
1:D:579:PHE:HD2	1:D:592:ILE:HD11	1.56	0.70
1:G:56:GLU:CB	1:G:59:MLY:HB3	2.19	0.70
1:G:818:TYR:CD1	2:H:127:ARG:NH1	2.60	0.70
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.70
1:J:829:TRP:HZ2	2:K:83:MET:HE3	1.54	0.70
1:M:217:THR:O	1:M:220:ASP:HB2	1.91	0.70
1:S:818:TYR:HE1	2:T:127:ARG:NH2	1.88	0.70
2:T:111:SER:OG	2:T:148:VAL:HG12	1.92	0.70
4:2:1:ASP:HA	4:2:4:GLU:HB3	1.74	0.70
4:6:1:ASP:HA	4:6:4:GLU:HB3	1.74	0.70
1:J:166:MET:HE1	1:J:254:PHE:HD2	1.56	0.70
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:553:MLY:HG2	4:2:47:MET:N	2.07	0.70
1:S:752:ASP:N	3:U:86:ASP:CG	2.49	0.70
1:S:782:MLY:C	1:S:783:LEU:HD12	2.22	0.70
4:3:288:ASP:H	4:5:203:THR:CG2	2.02	0.70
1:A:577:ALA:O	1:A:578:HIS:CG	2.45	0.70
2:B:111:SER:OG	2:B:148:VAL:HG12	1.92	0.70
1:D:630:ALA:O	4:9:25:ASP:HB2	1.92	0.70
1:D:810:ARG:HG2	1:D:810:ARG:HH11	1.57	0.70
1:G:72:VAL:HG13	1:G:76:GLN:CB	2.19	0.70
1:G:97:LEU:HD22	1:G:712:PRO:CB	2.20	0.70
1:G:123:CYS:HB2	1:G:158:ILE:HD11	1.73	0.70
1:G:245:ARG:HD3	1:G:271:GLU:OE1	1.90	0.70
1:M:579:PHE:HD2	1:M:592:ILE:HD11	1.57	0.70
1:M:782:MLY:C	1:M:783:LEU:HD12	2.22	0.70
3:O:48:LYS:O	3:O:52:ASN:CG	2.34	0.70
1:S:793:ARG:HH11	3:U:40:ASN:CG	1.99	0.70
4:3:287:ILE:HG21	4:5:204:ALA:H	1.54	0.70
1:A:215:GLN:CA	1:A:340:ILE:CG2	2.63	0.69
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	0.69
1:A:817:GLN:NE2	2:B:127:ARG:CD	2.47	0.69
1:D:546:THR:HG22	1:D:548:THR:N	2.05	0.69
2:E:111:SER:OG	2:E:148:VAL:HG12	1.92	0.69
1:G:97:LEU:HD23	1:G:712:PRO:CB	2.20	0.69
1:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	0.69
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.69
1:J:408:VAL:C	1:J:636:LYS:HG3	1.91	0.69
1:M:546:THR:HG22	1:M:548:THR:N	2.05	0.69
3:O:4:LYS:N	3:O:5:ALA:O	2.16	0.69
1:S:274:ARG:NH2	1:S:282:GLU:OE1	2.24	0.69
1:S:642:LYS:CG	4:2:23:GLY:H	1.77	0.69
1:A:752:ASP:O	1:A:778:MET:SD	2.49	0.69
1:A:782:MLY:C	1:A:783:LEU:HD12	2.22	0.69
1:A:787:ILE:HG22	1:A:788:THR:N	2.07	0.69
1:D:541:MET:CG	4:9:345:ILE:O	2.41	0.69
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.18	0.69
1:D:727:LEU:N	1:D:782:MLY:HE2	2.07	0.69
1:G:557:GLU:HB2	4:X:47:MET:C	2.16	0.69
1:G:577:ALA:O	1:G:578:HIS:CG	2.45	0.69
2:H:111:SER:OG	2:H:148:VAL:HG12	1.92	0.69
1:J:577:ALA:O	1:J:578:HIS:CG	2.45	0.69
1:J:762:HIS:H	1:J:762:HIS:CD2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:206:LYS:HD3	1:M:217:THR:HG23	0.71	0.69
1:M:636:LYS:HG3	4:Z:334:GLU:CD	2.17	0.69
1:M:787:ILE:HG22	1:M:788:THR:N	2.07	0.69
1:S:86:ASP:OD2	1:S:87:MLY:HH13	1.91	0.69
1:S:93:MET:CE	1:S:716:LEU:HD12	2.22	0.69
1:S:148:ARG:HH22	1:S:764:MLY:HH21	1.54	0.69
3:C:48:LYS:O	3:C:52:ASN:CG	2.34	0.69
1:D:713:SER:HB3	1:D:772:LEU:HD12	1.74	0.69
1:G:166:MET:HE1	1:G:254:PHE:HD2	1.56	0.69
1:G:813:ILE:CG2	2:H:128:PHE:CZ	2.74	0.69
1:J:756:THR:HG21	1:J:776:GLU:HA	1.66	0.69
1:M:123:CYS:HB2	1:M:158:ILE:HD11	1.73	0.69
1:M:802:GLU:OE1	1:M:802:GLU:HA	1.93	0.69
1:S:95:THR:CB	1:S:713:SER:HB3	2.21	0.69
1:S:731:ALA:HB1	3:U:93:VAL:HB	1.74	0.69
3:U:25:ILE:O	3:U:63:ILE:HB	1.92	0.69
4:1:244:ASP:CB	4:Y:325:MET:CE	2.70	0.69
4:9:1:ASP:HA	4:9:4:GLU:HB3	1.74	0.69
1:A:791:GLN:HE22	3:C:115:GLY:CA	2.04	0.69
2:B:117:LEU:CB	2:B:147:ASN:OD1	2.39	0.69
3:C:25:ILE:O	3:C:63:ILE:HB	1.92	0.69
3:C:48:LYS:HB3	3:C:52:ASN:HD21	1.57	0.69
1:D:822:SER:OG	2:E:88:LEU:HD22	1.91	0.69
1:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.69
1:G:752:ASP:OD2	1:G:780:ASP:O	2.09	0.69
1:J:557:GLU:HB2	4:Y:47:MET:C	2.16	0.69
1:J:798:LEU:CD1	3:L:126:LEU:HD13	2.17	0.69
1:J:836:PHE:CE2	2:K:160:GLY:HA3	2.27	0.69
2:K:117:LEU:HD12	2:K:147:ASN:CA	2.19	0.69
1:M:534:SER:C	4:Z:351:THR:CA	2.47	0.69
1:M:769:ALA:C	1:M:770:GLY:HA3	2.17	0.69
1:S:643:GLY:N	4:2:24:ASP:CA	2.46	0.69
4:1:3:ASP:HA	4:1:6:THR:CB	2.18	0.69
4:W:1:ASP:HA	4:W:4:GLU:HB3	1.74	0.69
1:A:800:ARG:NH2	3:C:40:ASN:ND2	2.38	0.69
1:A:815:CYS:O	1:A:819:ASN:HB2	1.93	0.69
1:D:553:MLY:HG2	4:W:47:MET:N	2.07	0.69
1:D:800:ARG:C	3:F:149:VAL:HG21	2.17	0.69
1:G:795:ARG:CB	3:I:35:ARG:HH12	2.04	0.69
1:G:810:ARG:HG2	1:G:810:ARG:HH11	1.56	0.69
1:J:756:THR:HG22	1:J:776:GLU:HA	1.69	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:783:LEU:C	1:M:786:ILE:HG13	2.16	0.69
1:M:797:PHE:CZ	3:O:146:ILE:HD13	2.27	0.69
1:S:123:CYS:HB2	1:S:158:ILE:HD11	1.73	0.69
1:S:787:ILE:HG22	1:S:788:THR:N	2.07	0.69
4:7:1:ASP:HA	4:7:4:GLU:HB3	1.74	0.69
4:W:3:ASP:HA	4:W:6:THR:CB	2.18	0.69
2:B:150:TYR:C	2:B:151:LYS:CG	2.49	0.69
1:D:787:ILE:HG22	1:D:788:THR:N	2.07	0.69
1:G:123:CYS:HB2	1:G:158:ILE:CD1	2.23	0.69
1:J:505:MLY:HD2	1:J:762:HIS:ND1	2.05	0.69
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.69
1:J:541:MET:CG	4:W:345:ILE:O	2.40	0.69
1:J:782:MLY:C	1:J:783:LEU:HD12	2.22	0.69
1:M:529:PRO:C	4:Z:354:GLN:CB	2.49	0.69
1:S:120:GLY:O	1:S:764:MLY:HH22	1.92	0.69
1:S:810:ARG:HG2	1:S:810:ARG:HH11	1.57	0.69
1:S:820:VAL:CG1	2:T:136:MET:CE	2.70	0.69
4:1:1:ASP:HA	4:1:4:GLU:HB3	1.74	0.69
4:1:287:ILE:HG21	4:3:203:THR:N	2.08	0.69
1:A:166:MET:HE1	1:A:254:PHE:HD2	1.56	0.69
1:D:123:CYS:HB2	1:D:158:ILE:HD11	1.73	0.69
1:J:213:LYS:HA	1:J:220:ASP:OD1	1.92	0.69
1:J:815:CYS:O	1:J:819:ASN:HB2	1.93	0.69
1:J:817:GLN:CB	2:K:127:ARG:HD3	2.05	0.69
1:M:72:VAL:HG13	1:M:76:GLN:CB	2.19	0.69
1:M:166:MET:HE1	1:M:254:PHE:HB2	1.74	0.69
1:S:630:ALA:O	4:2:25:ASP:HB2	1.92	0.69
1:S:636:LYS:HG3	4:2:334:GLU:CD	2.17	0.69
1:S:721:LYS:HG2	1:S:736:GLN:CD	1.86	0.69
4:1:287:ILE:HG21	4:3:204:ALA:N	2.06	0.69
1:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.69
1:A:630:ALA:O	4:8:25:ASP:HB2	1.92	0.69
1:A:732:ILE:CG2	1:A:747:LEU:HD11	1.26	0.69
1:A:795:ARG:HB2	3:C:35:ARG:NH1	2.08	0.69
1:D:508:ILE:HD12	1:D:766:PHE:CZ	2.16	0.69
1:D:782:MLY:C	1:D:783:LEU:HD12	2.22	0.69
1:D:792:ALA:HB2	3:F:42:THR:HG22	0.76	0.69
1:D:815:CYS:O	1:D:819:ASN:HB2	1.93	0.69
1:G:642:LYS:HB3	4:V:21:PHE:O	1.92	0.69
1:G:787:ILE:HG22	1:G:788:THR:N	2.07	0.69
3:I:48:LYS:HB3	3:I:52:ASN:HD21	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:93:MET:SD	1:J:716:LEU:HB2	2.31	0.69
1:J:642:LYS:HB3	4:W:21:PHE:O	1.92	0.69
1:J:643:GLY:N	4:W:24:ASP:CA	2.46	0.69
1:J:802:GLU:OE1	1:J:802:GLU:HA	1.93	0.69
1:J:807:VAL:O	1:J:810:ARG:HB2	1.93	0.69
1:J:810:ARG:HG2	1:J:810:ARG:HH11	1.57	0.69
1:M:630:ALA:O	4:Z:25:ASP:HB2	1.91	0.69
1:M:783:LEU:O	1:M:786:ILE:HB	1.91	0.69
1:M:807:VAL:O	1:M:810:ARG:HB2	1.93	0.69
1:M:820:VAL:CG1	2:N:136:MET:HE1	2.23	0.69
1:S:805:ALA:O	1:S:809:ARG:CB	2.40	0.69
1:S:815:CYS:O	1:S:819:ASN:HB2	1.93	0.69
4:4:1:ASP:HA	4:4:4:GLU:HB3	1.74	0.69
4:X:1:ASP:HA	4:X:4:GLU:HB3	1.74	0.69
1:D:807:VAL:O	1:D:810:ARG:HB2	1.93	0.69
1:D:831:TRP:CZ3	2:E:34:ILE:HD13	2.28	0.69
1:G:795:ARG:HB3	3:I:35:ARG:NH2	2.08	0.69
2:K:117:LEU:CB	2:K:147:ASN:OD1	2.39	0.69
1:M:724:TYR:CE2	1:M:772:LEU:HD23	2.28	0.69
1:M:793:ARG:HH21	3:O:147:MET:HE3	1.58	0.69
1:M:810:ARG:HG2	1:M:810:ARG:HH11	1.57	0.69
3:O:3:SER:O	3:O:4:LYS:CB	2.41	0.69
1:S:579:PHE:HD2	1:S:592:ILE:HD11	1.56	0.69
4:3:322:PRO:CB	4:5:244:ASP:HB3	2.12	0.69
1:A:807:VAL:O	1:A:810:ARG:HB2	1.93	0.69
1:D:213:LYS:HA	1:D:220:ASP:OD1	1.92	0.69
1:D:732:ILE:HG21	1:D:747:LEU:HD11	0.73	0.69
3:F:48:LYS:HB3	3:F:52:ASN:HD21	1.57	0.69
1:G:533:PHE:O	1:G:537:GLU:HG2	1.93	0.69
1:G:754:ASP:CG	1:G:779:ARG:CD	2.57	0.69
1:M:123:CYS:HB2	1:M:158:ILE:CD1	2.23	0.69
1:M:533:PHE:O	1:M:537:GLU:HG2	1.93	0.69
1:M:537:GLU:HG3	4:Z:350:SER:O	1.78	0.69
1:M:829:TRP:CZ2	2:N:87:LYS:CE	2.65	0.69
1:S:799:MET:SD	3:U:32:ASP:CG	2.75	0.69
1:S:807:VAL:O	1:S:810:ARG:HB2	1.93	0.69
1:S:826:VAL:HG21	2:T:88:LEU:HD21	1.74	0.69
1:S:829:TRP:HZ3	2:T:84:PHE:CZ	2.10	0.69
3:U:48:LYS:HB3	3:U:52:ASN:HD21	1.57	0.69
4:5:3:ASP:HA	4:5:6:THR:CB	2.18	0.69
1:A:92:ALA:O	1:A:713:SER:HA	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:HB3	4:8:21:PHE:O	1.93	0.68
1:A:810:ARG:HG2	1:A:810:ARG:HH11	1.57	0.68
1:D:62:VAL:HG12	1:D:63:MLY:O	1.93	0.68
1:D:408:VAL:C	1:D:636:LYS:HG3	1.92	0.68
1:D:724:TYR:HE1	1:D:778:MET:C	2.01	0.68
1:D:762:HIS:CD2	1:D:762:HIS:H	2.08	0.68
1:G:816:ILE:HD11	2:H:100:ALA:CB	2.23	0.68
1:J:62:VAL:HG12	1:J:63:MLY:O	1.93	0.68
1:J:537:GLU:C	4:W:351:THR:N	2.51	0.68
1:J:630:ALA:O	4:W:25:ASP:CB	2.41	0.68
1:J:839:MLY:CH2	2:K:158:THR:HG22	2.22	0.68
3:L:48:LYS:HB3	3:L:52:ASN:HD21	1.57	0.68
1:S:166:MET:HE1	1:S:254:PHE:HB2	1.74	0.68
4:4:324:THR:HG23	4:6:244:ASP:C	2.18	0.68
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.68
1:G:537:GLU:C	4:V:351:THR:N	2.51	0.68
1:G:798:LEU:HG	3:I:122:GLU:HB3	1.74	0.68
1:J:787:ILE:HG22	1:J:788:THR:N	2.07	0.68
1:M:541:MET:CG	4:Z:345:ILE:O	2.40	0.68
1:M:642:LYS:HB3	4:Z:21:PHE:O	1.92	0.68
3:O:25:ILE:O	3:O:63:ILE:HB	1.92	0.68
1:S:537:GLU:C	4:2:351:THR:N	2.51	0.68
1:A:97:LEU:HD22	1:A:712:PRO:HB2	1.75	0.68
1:D:537:GLU:C	4:9:351:THR:N	2.51	0.68
1:D:557:GLU:N	4:W:48:GLY:HA3	1.90	0.68
1:G:213:LYS:HA	1:G:220:ASP:OD1	1.92	0.68
1:J:533:PHE:O	1:J:537:GLU:HG2	1.93	0.68
3:L:25:ILE:O	3:L:63:ILE:HB	1.92	0.68
1:M:652:LEU:O	1:M:655:GLU:N	2.26	0.68
2:N:111:SER:OG	2:N:148:VAL:HG12	1.92	0.68
1:S:652:LEU:O	1:S:655:GLU:N	2.27	0.68
1:S:707:CYS:CA	1:S:714:ARG:HH22	2.05	0.68
1:S:731:ALA:CB	3:U:93:VAL:HB	2.22	0.68
1:A:56:GLU:CB	1:A:59:MLY:HB3	2.20	0.68
1:A:149:GLN:HE21	1:A:718:ALA:CB	1.91	0.68
1:A:652:LEU:O	1:A:655:GLU:N	2.27	0.68
1:A:795:ARG:CG	3:C:35:ARG:NH1	2.52	0.68
1:A:802:GLU:OE1	1:A:802:GLU:HA	1.93	0.68
1:A:822:SER:CB	2:B:88:LEU:CD2	2.66	0.68
1:D:642:LYS:CG	4:9:22:ALA:C	2.67	0.68
1:D:793:ARG:NH2	3:F:147:MET:CE	2.36	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:140:PHE:O	2:E:141:PRO:C	2.33	0.68
1:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	0.68
1:S:541:MET:CG	4:2:345:ILE:O	2.40	0.68
1:S:642:LYS:HB3	4:2:21:PHE:O	1.92	0.68
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.68
1:A:553:MLY:HG2	4:V:47:MET:N	2.07	0.68
1:A:630:ALA:O	4:8:25:ASP:CB	2.41	0.68
1:D:642:LYS:HB3	4:9:21:PHE:O	1.93	0.68
1:G:784:ALA:O	1:G:788:THR:HB	1.94	0.68
1:G:807:VAL:O	1:G:810:ARG:HB2	1.93	0.68
1:J:123:CYS:HB2	1:J:158:ILE:CD1	2.23	0.68
1:J:642:LYS:CG	4:W:22:ALA:C	2.67	0.68
1:M:553:MLY:CG	4:2:47:MET:N	2.54	0.68
3:O:48:LYS:HB3	3:O:52:ASN:HD21	1.57	0.68
1:S:123:CYS:HB2	1:S:158:ILE:CD1	2.23	0.68
1:S:506:GLU:OE2	1:S:760:PHE:CG	2.43	0.68
1:S:642:LYS:CG	4:2:22:ALA:C	2.67	0.68
1:S:795:ARG:CB	3:U:35:ARG:HH12	2.05	0.68
1:A:123:CYS:HB2	1:A:158:ILE:CD1	2.23	0.68
1:A:505:MLY:HB2	1:A:762:HIS:N	2.09	0.68
1:D:630:ALA:O	4:9:25:ASP:CB	2.41	0.68
1:D:643:GLY:N	4:9:24:ASP:CA	2.46	0.68
1:D:732:ILE:HD12	1:D:782:MLY:HH13	1.76	0.68
1:D:836:PHE:HZ	2:E:160:GLY:H	0.68	0.68
1:G:782:MLY:C	1:G:783:LEU:HD12	2.22	0.68
1:G:817:GLN:CB	2:H:127:ARG:HD2	2.22	0.68
1:J:557:GLU:HA	4:Y:48:GLY:CA	2.18	0.68
1:M:630:ALA:O	4:Z:25:ASP:CB	2.41	0.68
1:M:785:GLU:O	1:M:787:ILE:N	2.26	0.68
1:M:836:PHE:CE2	2:N:160:GLY:HA3	2.29	0.68
1:S:72:VAL:HG13	1:S:76:GLN:CB	2.19	0.68
1:S:544:LYS:HB3	4:4:45:VAL:HG22	1.76	0.68
1:S:732:ILE:HG21	1:S:747:LEU:HD11	0.73	0.68
4:V:1:ASP:HA	4:V:4:GLU:HB3	1.74	0.68
4:W:325:MET:CE	4:Y:244:ASP:CB	2.70	0.68
1:G:553:MLY:CD	4:X:45:VAL:HG12	2.23	0.68
1:G:652:LEU:O	1:G:655:GLU:N	2.27	0.68
1:G:829:TRP:HZ3	2:H:84:PHE:CE1	2.12	0.68
3:I:3:SER:O	3:I:4:LYS:CB	2.41	0.68
1:J:84:MLY:CH2	1:J:720:PHE:CA	2.07	0.68
1:J:553:MLY:HH12	4:Y:45:VAL:CG2	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:553:MLY:CD	4:Y:45:VAL:HG12	2.23	0.68
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	0.68
1:J:819:ASN:OD1	2:K:92:ASP:CB	2.42	0.68
2:K:140:PHE:O	2:K:141:PRO:C	2.33	0.68
1:M:537:GLU:C	4:Z:351:THR:N	2.51	0.68
1:M:642:LYS:CG	4:Z:22:ALA:C	2.67	0.68
1:S:52:ILE:HD13	1:S:52:ILE:N	2.09	0.68
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.68
4:X:287:ILE:C	4:Z:205:GLU:OE1	2.37	0.68
1:A:541:MET:CG	4:8:345:ILE:O	2.40	0.68
1:D:123:CYS:HB2	1:D:158:ILE:CD1	2.23	0.68
1:G:206:LYS:HD3	1:G:217:THR:HG23	0.70	0.68
1:G:557:GLU:HA	4:X:48:GLY:CA	2.18	0.68
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.68
1:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.68
1:J:817:GLN:CD	2:K:127:ARG:CG	2.66	0.68
1:M:213:LYS:HA	1:M:220:ASP:OD1	1.92	0.68
1:S:166:MET:HE1	1:S:254:PHE:HD2	1.56	0.68
1:S:213:LYS:HA	1:S:220:ASP:OD1	1.92	0.68
1:S:630:ALA:O	4:2:25:ASP:CB	2.41	0.68
4:1:153:LEU:HD11	4:1:274:ILE:HG13	1.76	0.68
4:1:160:THR:HG21	4:1:274:ILE:HD11	1.76	0.68
4:4:160:THR:HG21	4:4:274:ILE:HD11	1.75	0.68
4:Y:1:ASP:HA	4:Y:4:GLU:HB3	1.74	0.68
4:Y:160:THR:HG21	4:Y:274:ILE:HD11	1.76	0.68
1:A:213:LYS:HA	1:A:220:ASP:OD1	1.92	0.68
3:C:3:SER:O	3:C:4:LYS:CB	2.41	0.68
1:D:823:PHE:CD1	2:E:160:GLY:HA2	2.28	0.68
2:E:149:ASP:OD2	2:E:150:TYR:C	2.36	0.68
2:E:163:ALA:C	2:K:22:THR:N	2.51	0.68
1:G:739:ASP:CB	1:G:742:LYS:HB3	2.12	0.68
1:G:797:PHE:CE1	3:I:146:ILE:HA	2.29	0.68
1:G:815:CYS:O	1:G:819:ASN:HB2	1.93	0.68
1:G:831:TRP:HH2	2:H:47:LEU:HD21	0.63	0.68
1:J:788:THR:O	3:L:42:THR:CG2	2.37	0.68
2:K:117:LEU:CG	2:K:147:ASN:HB3	2.24	0.68
1:M:52:ILE:HD13	1:M:52:ILE:N	2.09	0.68
1:S:95:THR:CA	1:S:713:SER:HB3	2.24	0.68
1:S:550:PHE:HE2	1:S:592:ILE:HG23	1.59	0.68
1:S:643:GLY:H	4:2:23:GLY:C	2.01	0.68
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:153:LEU:HD11	4:3:274:ILE:HG13	1.76	0.68
1:A:643:GLY:N	4:8:24:ASP:CA	2.46	0.68
1:G:642:LYS:CG	4:V:22:ALA:C	2.66	0.68
2:H:149:ASP:OD2	2:H:150:TYR:C	2.36	0.68
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	0.68
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	0.68
3:L:3:SER:O	3:L:4:LYS:CB	2.41	0.68
1:M:408:VAL:HG12	4:Z:332:PRO:HB3	1.75	0.68
1:M:798:LEU:HD11	3:O:126:LEU:HD21	0.72	0.68
2:N:149:ASP:OD2	2:N:150:TYR:C	2.36	0.68
1:S:802:GLU:OE1	1:S:802:GLU:HA	1.93	0.68
4:2:287:ILE:CG1	4:4:203:THR:H	2.03	0.68
4:6:160:THR:HG21	4:6:274:ILE:HD11	1.75	0.68
1:A:505:MLY:HG2	1:A:762:HIS:CD2	2.28	0.67
1:A:533:PHE:O	1:A:537:GLU:HG2	1.93	0.67
1:A:546:THR:H	1:A:549:SER:HB3	1.60	0.67
2:B:140:PHE:O	2:B:141:PRO:C	2.33	0.67
1:D:533:PHE:O	1:D:537:GLU:HG2	1.93	0.67
1:D:814:PHE:CE1	2:E:127:ARG:CZ	2.77	0.67
3:F:3:SER:O	3:F:4:LYS:CB	2.41	0.67
1:G:541:MET:CG	4:V:345:ILE:O	2.41	0.67
1:J:652:LEU:O	1:J:655:GLU:N	2.26	0.67
1:J:795:ARG:HH21	3:L:116:GLU:HG2	1.57	0.67
1:M:546:THR:H	1:M:549:SER:HB3	1.59	0.67
3:U:3:SER:O	3:U:4:LYS:CB	2.41	0.67
4:8:153:LEU:HD11	4:8:274:ILE:HG13	1.76	0.67
1:A:58:GLY:HA2	1:A:74:GLU:OE1	1.94	0.67
1:A:795:ARG:CZ	3:C:116:GLU:CD	2.43	0.67
1:A:795:ARG:NE	3:C:116:GLU:OE2	2.26	0.67
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.67
1:G:754:ASP:O	1:G:776:GLU:CD	2.36	0.67
1:J:374:GLN:HG3	1:J:375:ALA:H	1.59	0.67
1:J:801:VAL:CG2	3:L:126:LEU:CD2	2.66	0.67
1:M:550:PHE:HE2	1:M:592:ILE:HG23	1.59	0.67
1:M:815:CYS:O	1:M:819:ASN:HB2	1.93	0.67
1:S:84:MLY:HD3	1:S:723:ARG:HD2	1.75	0.67
1:S:749:GLY:HA3	3:U:93:VAL:HG22	1.76	0.67
1:G:802:GLU:OE1	1:G:802:GLU:HA	1.93	0.67
1:J:819:ASN:OD1	2:K:92:ASP:HB2	1.93	0.67
1:M:58:GLY:HA2	1:M:74:GLU:OE1	1.95	0.67
1:M:95:THR:OG1	1:M:770:GLY:CA	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:817:GLN:HG3	2:N:128:PHE:CE1	2.30	0.67
1:S:408:VAL:HG12	4:2:332:PRO:HB3	1.76	0.67
1:S:533:PHE:O	1:S:537:GLU:HG2	1.93	0.67
2:T:117:LEU:CG	2:T:147:ASN:HB3	2.25	0.67
4:3:1:ASP:HA	4:3:4:GLU:HB3	1.74	0.67
4:Y:153:LEU:HD11	4:Y:274:ILE:HG13	1.76	0.67
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.67
1:A:541:MET:C	4:8:143:TYR:CZ	2.73	0.67
2:B:141:PRO:O	2:B:145:ALA:CB	2.43	0.67
1:D:131:TRP:O	1:D:132:LEU:HD12	1.95	0.67
1:D:612:GLN:NE2	1:D:627:GLY:N	2.43	0.67
2:E:163:ALA:O	2:K:21:GLU:CA	2.43	0.67
1:M:730:SER:C	1:M:733:PRO:HD2	2.20	0.67
1:M:795:ARG:CZ	3:O:116:GLU:OE2	2.42	0.67
2:N:117:LEU:HD11	2:N:147:ASN:HB3	1.76	0.67
1:S:290:GLN:O	1:S:331:LEU:HD12	1.95	0.67
1:S:731:ALA:C	3:U:93:VAL:CG1	2.62	0.67
1:S:836:PHE:CD2	2:T:160:GLY:CA	2.77	0.67
2:T:141:PRO:O	2:T:145:ALA:CB	2.43	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
1:M:820:VAL:HG11	2:N:136:MET:HE3	1.75	0.67
2:N:117:LEU:CB	2:N:147:ASN:OD1	2.39	0.67
1:S:793:ARG:HA	3:U:40:ASN:HB3	1.75	0.67
2:T:117:LEU:HD11	2:T:147:ASN:HB3	1.76	0.67
4:5:153:LEU:HD11	4:5:274:ILE:HG13	1.76	0.67
4:Z:160:THR:HG21	4:Z:274:ILE:HD11	1.76	0.67
1:A:52:ILE:HD13	1:A:52:ILE:N	2.08	0.67
1:A:752:ASP:CB	1:A:782:MLY:HD3	2.24	0.67
1:D:652:LEU:O	1:D:655:GLU:N	2.27	0.67
1:D:838:ILE:HD13	2:E:54:MET:HE1	1.75	0.67
1:G:506:GLU:CD	1:G:760:PHE:O	2.37	0.67
1:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.67
1:J:757:GLN:HA	1:J:776:GLU:CB	2.25	0.67
1:J:768:MLY:CB	1:J:773:GLY:HA2	1.71	0.67
1:M:166:MET:HE1	1:M:254:PHE:HD2	1.56	0.67
1:S:549:SER:HB2	4:4:43:VAL:CG2	2.24	0.67
4:W:153:LEU:HD11	4:W:274:ILE:HG13	1.76	0.67
1:A:149:GLN:HG2	1:A:719:ASP:H	1.59	0.67
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.67
1:A:643:GLY:H	4:8:23:GLY:C	2.02	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:799:MET:SD	3:C:32:ASP:C	2.78	0.67
1:A:829:TRP:HE1	2:B:67:MET:HG2	1.58	0.67
1:A:830:PRO:HB2	2:B:51:PHE:CE1	2.30	0.67
2:B:149:ASP:OD2	2:B:150:TYR:C	2.37	0.67
1:G:541:MET:C	4:V:143:TYR:CZ	2.73	0.67
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	0.67
1:J:52:ILE:HD13	1:J:52:ILE:N	2.09	0.67
2:N:141:PRO:O	2:N:145:ALA:CB	2.43	0.67
1:S:537:GLU:HG3	4:2:350:SER:O	1.78	0.67
1:S:541:MET:C	4:2:143:TYR:CZ	2.73	0.67
1:S:546:THR:H	1:S:549:SER:HB3	1.59	0.67
2:T:149:ASP:OD2	2:T:150:TYR:C	2.36	0.67
4:3:324:THR:OG1	4:5:244:ASP:HB3	1.95	0.67
4:9:160:THR:HG21	4:9:274:ILE:HD11	1.75	0.67
1:A:791:GLN:HE22	3:C:115:GLY:HA3	1.59	0.67
1:D:712:PRO:HB2	1:D:771:LEU:CD2	2.25	0.67
1:G:801:VAL:HG21	3:I:126:LEU:CD2	2.23	0.67
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.67
1:J:730:SER:C	1:J:733:PRO:HD2	2.20	0.67
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.67
1:S:648:THR:CB	4:2:350:SER:OG	2.43	0.67
1:S:730:SER:C	1:S:733:PRO:HD2	2.20	0.67
1:S:795:ARG:HH21	3:U:116:GLU:HB3	0.99	0.67
4:2:112:PRO:HG2	4:3:197:GLY:HA2	1.75	0.67
4:3:160:THR:HG21	4:3:274:ILE:HD11	1.76	0.67
4:3:324:THR:HG23	4:5:244:ASP:C	2.18	0.67
4:V:153:LEU:HD11	4:V:274:ILE:HG13	1.76	0.67
1:A:61:THR:HG23	1:A:71:THR:OG1	1.94	0.67
1:A:730:SER:C	1:A:733:PRO:HD2	2.20	0.67
1:A:739:ASP:CB	1:A:742:LYS:HB3	2.12	0.67
1:D:52:ILE:HD13	1:D:52:ILE:N	2.09	0.67
1:D:648:THR:CB	4:9:350:SER:OG	2.43	0.67
1:D:727:LEU:HB2	1:D:782:MLY:HH13	0.68	0.67
2:E:141:PRO:O	2:E:145:ALA:CB	2.43	0.67
1:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.67
1:G:797:PHE:HE2	3:I:126:LEU:HD22	0.87	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
2:K:141:PRO:O	2:K:145:ALA:CB	2.43	0.67
1:S:374:GLN:HG3	1:S:375:ALA:H	1.59	0.67
1:S:739:ASP:CB	1:S:742:LYS:HB3	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:167:GLU:OE2	4:4:43:VAL:O	2.12	0.67
4:W:160:THR:HG21	4:W:274:ILE:HD11	1.76	0.67
1:A:499:GLU:OE2	1:A:766:PHE:HE2	1.77	0.67
1:D:58:GLY:HA2	1:D:74:GLU:OE1	1.95	0.67
1:D:480:ILE:HG22	1:D:481:ASN:ND2	2.10	0.67
1:D:550:PHE:HE2	1:D:592:ILE:HG23	1.59	0.67
1:D:727:LEU:CA	1:D:782:MLY:HE2	2.25	0.67
1:G:78:PHE:HB3	1:G:98:HIS:CD2	2.30	0.67
1:G:829:TRP:CH2	2:H:87:LYS:NZ	2.63	0.67
2:H:117:LEU:CG	2:H:147:ASN:HB3	2.24	0.67
1:J:480:ILE:HG22	1:J:481:ASN:ND2	2.10	0.67
1:J:792:ALA:H	3:L:42:THR:CG2	2.08	0.67
1:M:648:THR:CB	4:Z:350:SER:OG	2.43	0.67
4:X:153:LEU:HD11	4:X:274:ILE:HG13	1.76	0.67
4:X:160:THR:HG21	4:X:274:ILE:HD11	1.76	0.67
1:A:78:PHE:HB3	1:A:98:HIS:CD2	2.30	0.66
1:A:93:MET:HE2	1:A:715:VAL:CG1	2.24	0.66
1:D:635:GLY:O	4:9:341:ILE:HG21	1.95	0.66
1:D:800:ARG:HB3	3:F:149:VAL:CG2	2.25	0.66
3:F:102:VAL:HG23	3:F:139:TYR:HD1	1.59	0.66
1:G:62:VAL:HG12	1:G:63:MLY:O	1.94	0.66
1:G:217:THR:O	1:G:221:GLN:HG2	1.95	0.66
1:G:503:TYR:HE1	1:G:711:PHE:CE2	2.11	0.66
1:G:817:GLN:CG	2:H:127:ARG:CD	2.73	0.66
2:H:140:PHE:O	2:H:141:PRO:C	2.33	0.66
1:J:648:THR:CB	4:W:350:SER:OG	2.43	0.66
1:J:818:TYR:OH	2:K:127:ARG:NH2	2.27	0.66
1:M:217:THR:O	1:M:221:GLN:HG2	1.95	0.66
1:M:290:GLN:O	1:M:331:LEU:HD12	1.95	0.66
1:M:480:ILE:HG22	1:M:481:ASN:ND2	2.10	0.66
1:M:643:GLY:H	4:Z:23:GLY:C	2.02	0.66
1:M:803:TYR:O	1:M:807:VAL:N	2.28	0.66
3:O:24:LYS:HA	3:O:63:ILE:O	1.96	0.66
1:S:546:THR:HG21	4:4:47:MET:CA	2.25	0.66
4:4:153:LEU:HD11	4:4:274:ILE:HG13	1.76	0.66
4:7:160:THR:HG21	4:7:274:ILE:HD11	1.76	0.66
3:C:24:LYS:HA	3:C:63:ILE:O	1.95	0.66
1:D:418:THR:HG22	1:D:419:VAL:N	2.11	0.66
1:D:802:GLU:OE1	1:D:802:GLU:HA	1.93	0.66
2:E:117:LEU:CG	2:E:147:ASN:HB3	2.24	0.66
1:G:553:MLY:HH12	4:X:45:VAL:CG2	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:OD2	4:X:47:MET:HE3	1.85	0.66
1:G:643:GLY:H	4:V:23:GLY:C	2.02	0.66
1:J:290:GLN:O	1:J:331:LEU:HD12	1.95	0.66
3:L:24:LYS:HA	3:L:63:ILE:O	1.95	0.66
3:O:102:VAL:HG23	3:O:139:TYR:HD1	1.59	0.66
1:S:90:ASP:OD1	1:S:764:MLY:HH11	1.95	0.66
2:T:117:LEU:CB	2:T:147:ASN:OD1	2.39	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:836:PHE:HB3	2:B:161:GLU:OE1	1.95	0.66
2:B:117:LEU:CG	2:B:147:ASN:HB3	2.24	0.66
2:B:144:VAL:CG1	2:B:153:ILE:HD13	2.19	0.66
1:D:290:GLN:O	1:D:331:LEU:HD12	1.95	0.66
1:D:599:ASN:OD1	1:D:649:VAL:N	2.29	0.66
1:G:52:ILE:HD13	1:G:52:ILE:N	2.09	0.66
1:G:503:TYR:CZ	1:G:711:PHE:CD2	2.83	0.66
1:G:757:GLN:HG3	1:G:776:GLU:CB	2.15	0.66
1:J:408:VAL:HG12	4:W:332:PRO:HB3	1.76	0.66
1:J:418:THR:HG22	1:J:419:VAL:N	2.11	0.66
1:J:505:MLY:CG	1:J:762:HIS:HE1	2.08	0.66
1:J:541:MET:C	4:W:143:TYR:CZ	2.73	0.66
1:M:62:VAL:HG12	1:M:63:MLY:O	1.94	0.66
1:M:78:PHE:HB3	1:M:98:HIS:CD2	2.30	0.66
1:M:541:MET:C	4:Z:143:TYR:CZ	2.73	0.66
1:M:639:GLY:N	4:Z:344:SER:C	2.54	0.66
4:4:288:ASP:CB	4:6:203:THR:HG21	2.25	0.66
4:Z:153:LEU:HD11	4:Z:274:ILE:HG13	1.76	0.66
1:A:93:MET:HE2	1:A:715:VAL:HG13	1.76	0.66
1:A:707:CYS:CA	1:A:714:ARG:NH1	2.41	0.66
1:A:797:PHE:CE1	3:C:146:ILE:HD13	2.28	0.66
1:A:809:ARG:HH12	2:B:124:GLY:HA2	1.61	0.66
1:D:61:THR:HG23	1:D:71:THR:OG1	1.95	0.66
1:D:322:VAL:HB	1:D:325:ILE:CD1	2.26	0.66
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.66
1:G:612:GLN:NE2	1:G:627:GLY:N	2.43	0.66
1:G:754:ASP:CA	1:G:779:ARG:HD3	2.07	0.66
1:J:78:PHE:HB3	1:J:98:HIS:CD2	2.30	0.66
1:J:642:LYS:CD	4:W:24:ASP:O	2.43	0.66
1:J:834:LEU:HD12	2:K:51:PHE:CE1	2.26	0.66
1:M:797:PHE:CE1	3:O:146:ILE:HA	2.31	0.66
1:S:480:ILE:HG22	1:S:481:ASN:ND2	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:612:GLN:NE2	1:S:627:GLY:N	2.43	0.66
3:U:102:VAL:HG23	3:U:139:TYR:HD1	1.59	0.66
4:V:325:MET:CE	4:X:244:ASP:CB	2.70	0.66
1:A:374:GLN:HG3	1:A:375:ALA:H	1.60	0.66
1:A:550:PHE:HE2	1:A:592:ILE:HG23	1.59	0.66
1:A:648:THR:CB	4:8:350:SER:OG	2.43	0.66
1:D:217:THR:O	1:D:221:GLN:HG2	1.94	0.66
1:G:149:GLN:CB	1:G:763:THR:CG2	2.73	0.66
1:G:408:VAL:HG12	4:V:332:PRO:HB3	1.76	0.66
1:G:480:ILE:HG22	1:G:481:ASN:ND2	2.10	0.66
1:G:599:ASN:OD1	1:G:649:VAL:N	2.29	0.66
3:I:24:LYS:HA	3:I:63:ILE:O	1.95	0.66
1:J:97:LEU:CD2	1:J:712:PRO:CB	2.74	0.66
1:J:635:GLY:O	4:W:341:ILE:HG21	1.95	0.66
2:N:144:VAL:CG1	2:N:153:ILE:HD13	2.20	0.66
1:S:802:GLU:OE2	1:S:809:ARG:CZ	2.44	0.66
4:I:247:VAL:H	4:Y:324:THR:HG23	1.61	0.66
1:A:174:SER:O	1:A:670:HIS:HB2	1.96	0.66
1:A:408:VAL:HG12	4:8:332:PRO:HB3	1.76	0.66
1:A:501:GLU:O	1:A:762:HIS:CG	2.48	0.66
1:A:538:GLU:HA	4:8:349:LEU:HB3	1.78	0.66
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	0.66
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.66
1:J:339:ASP:OD1	1:J:348:MLY:HH13	1.95	0.66
2:K:141:PRO:O	2:K:145:ALA:HB2	1.96	0.66
1:M:798:LEU:HD13	3:O:126:LEU:HD21	1.58	0.66
1:M:829:TRP:HZ3	2:N:84:PHE:CZ	2.13	0.66
1:S:78:PHE:HB3	1:S:98:HIS:CD2	2.30	0.66
1:S:217:THR:O	1:S:221:GLN:HG2	1.95	0.66
1:S:530:MET:CA	4:2:354:GLN:CB	2.74	0.66
4:6:153:LEU:HD11	4:6:274:ILE:HG13	1.76	0.66
1:A:144:ARG:NH1	1:A:160:ASP:OD1	2.29	0.66
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	0.66
1:A:639:GLY:N	4:8:344:SER:C	2.54	0.66
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.96	0.66
1:D:226:ASN:HB2	1:D:227:PRO:HD3	1.78	0.66
1:D:829:TRP:CZ3	2:E:84:PHE:CZ	2.84	0.66
2:E:144:VAL:CG1	2:E:153:ILE:HD13	2.19	0.66
1:G:58:GLY:HA2	1:G:74:GLU:OE1	1.95	0.66
1:G:480:ILE:HG22	1:G:481:ASN:N	2.11	0.66
1:G:788:THR:O	3:I:42:THR:CG2	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:541:MET:O	4:W:143:TYR:OH	2.13	0.66
1:J:817:GLN:HG3	2:K:128:PHE:CE1	2.31	0.66
1:M:226:ASN:HB2	1:M:227:PRO:HD3	1.78	0.66
1:M:538:GLU:HA	4:Z:349:LEU:HB3	1.78	0.66
1:M:599:ASN:OD1	1:M:649:VAL:N	2.29	0.66
2:N:141:PRO:O	2:N:145:ALA:HB2	1.96	0.66
1:S:61:THR:HG23	1:S:71:THR:OG1	1.95	0.66
2:T:141:PRO:O	2:T:145:ALA:HB2	1.96	0.66
4:1:167:GLU:OE1	4:3:44:MET:HA	1.95	0.66
4:7:153:LEU:HD11	4:7:274:ILE:HG13	1.76	0.66
1:A:217:THR:O	1:A:221:GLN:HG2	1.95	0.66
1:A:296:MLY:HH11	1:A:348:MLY:HH21	1.78	0.66
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.66
1:D:78:PHE:HB3	1:D:98:HIS:CD2	2.30	0.66
1:D:374:GLN:HG3	1:D:375:ALA:H	1.60	0.66
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.66
1:G:202:SER:HA	1:G:207:LYS:HE3	1.72	0.66
1:G:290:GLN:O	1:G:331:LEU:HD12	1.95	0.66
1:G:556:ASP:OD2	4:X:47:MET:CE	2.39	0.66
1:G:783:LEU:O	1:G:787:ILE:CA	2.43	0.66
2:H:117:LEU:CB	2:H:147:ASN:OD1	2.39	0.66
1:M:553:MLY:CE	4:2:45:VAL:CA	2.49	0.66
1:M:612:GLN:NE2	1:M:627:GLY:N	2.43	0.66
1:M:829:TRP:CZ3	2:N:84:PHE:CZ	2.84	0.66
1:S:58:GLY:HA2	1:S:74:GLU:OE1	1.95	0.66
1:S:161:ASN:O	1:S:165:PHE:HB2	1.96	0.66
1:S:339:ASP:OD1	1:S:348:MLY:HH13	1.95	0.66
4:2:153:LEU:HD11	4:2:274:ILE:HG13	1.76	0.66
2:B:141:PRO:O	2:B:145:ALA:HB2	1.96	0.66
3:C:102:VAL:HG23	3:C:139:TYR:HD1	1.60	0.66
1:D:831:TRP:CZ2	2:E:51:PHE:CZ	2.84	0.66
1:G:817:GLN:NE2	2:H:128:PHE:CE1	2.64	0.66
1:J:144:ARG:NH1	1:J:160:ASP:OD1	2.29	0.66
1:J:322:VAL:HB	1:J:325:ILE:CD1	2.26	0.66
1:J:643:GLY:H	4:W:23:GLY:C	2.02	0.66
1:M:131:TRP:O	1:M:132:LEU:HD12	1.95	0.66
1:M:418:THR:HG22	1:M:419:VAL:N	2.11	0.66
2:N:146:GLY:O	2:N:147:ASN:HB2	1.96	0.66
4:1:288:ASP:OD1	4:3:203:THR:HG23	1.96	0.66
4:5:160:THR:HG21	4:5:274:ILE:HD11	1.76	0.66
1:A:226:ASN:HB2	1:A:227:PRO:HD3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:831:TRP:CD2	2:B:51:PHE:CE1	2.84	0.66
1:D:174:SER:O	1:D:670:HIS:HB2	1.96	0.66
1:D:408:VAL:HG12	4:9:332:PRO:HB3	1.76	0.66
1:D:466:GLY:HA2	1:D:484:ASN:HD21	1.61	0.66
2:E:141:PRO:O	2:E:145:ALA:HB2	1.96	0.66
1:G:144:ARG:NH1	1:G:160:ASP:OD1	2.29	0.66
1:G:217:THR:C	1:G:221:GLN:HG2	2.21	0.66
1:G:226:ASN:HB2	1:G:227:PRO:HD3	1.78	0.66
1:G:642:LYS:CD	4:V:24:ASP:O	2.43	0.66
3:I:102:VAL:HG23	3:I:139:TYR:HD1	1.59	0.66
1:J:61:THR:HG23	1:J:71:THR:OG1	1.95	0.66
1:J:505:MLY:HG3	1:J:762:HIS:CE1	2.31	0.66
2:K:146:GLY:O	2:K:147:ASN:HB2	1.96	0.66
1:M:161:ASN:O	1:M:165:PHE:HB2	1.96	0.66
1:S:62:VAL:HG12	1:S:63:MLY:O	1.94	0.66
1:S:642:LYS:HA	4:2:21:PHE:O	1.96	0.66
1:A:62:VAL:HG12	1:A:63:MLY:O	1.94	0.65
1:A:131:TRP:O	1:A:132:LEU:HD12	1.95	0.65
1:A:530:MET:CA	4:8:354:GLN:CB	2.74	0.65
3:C:48:LYS:C	3:C:52:ASN:HD21	1.97	0.65
1:G:93:MET:CA	1:G:714:ARG:H	2.04	0.65
1:G:174:SER:O	1:G:670:HIS:HB2	1.96	0.65
1:G:339:ASP:OD1	1:G:348:MLY:HH13	1.95	0.65
1:G:466:GLY:HA2	1:G:484:ASN:HD21	1.61	0.65
1:G:648:THR:CB	4:V:350:SER:OG	2.44	0.65
1:G:752:ASP:OD1	1:G:783:LEU:CB	2.43	0.65
1:G:795:ARG:HG2	3:I:118:MET:SD	2.33	0.65
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.65
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.65
1:J:217:THR:O	1:J:221:GLN:HG2	1.95	0.65
1:J:466:GLY:HA2	1:J:484:ASN:ND2	2.11	0.65
1:J:691:VAL:O	1:J:695:LEU:HD13	1.96	0.65
1:M:480:ILE:HG22	1:M:481:ASN:N	2.11	0.65
2:N:117:LEU:CG	2:N:147:ASN:HB3	2.25	0.65
1:S:174:SER:O	1:S:670:HIS:HB2	1.96	0.65
1:S:226:ASN:HB2	1:S:227:PRO:HD3	1.77	0.65
1:S:466:GLY:HA2	1:S:484:ASN:ND2	2.12	0.65
1:S:747:LEU:HA	3:U:93:VAL:CG1	2.27	0.65
1:S:796:GLY:HA2	3:U:35:ARG:NE	2.10	0.65
4:4:324:THR:OG1	4:6:244:ASP:HB3	1.95	0.65
1:A:642:LYS:CD	4:8:24:ASP:O	2.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:339:ASP:OD1	1:D:348:MLY:HH13	1.95	0.65
1:G:296:MLY:HH11	1:G:348:MLY:HH21	1.79	0.65
1:G:635:GLY:O	4:V:341:ILE:HG21	1.95	0.65
1:J:838:ILE:CD1	2:K:54:MET:CE	2.44	0.65
1:M:174:SER:O	1:M:670:HIS:HB2	1.96	0.65
1:S:322:VAL:HB	1:S:325:ILE:CD1	2.26	0.65
1:S:502:GLU:CD	1:S:761:GLY:HA3	2.19	0.65
1:S:599:ASN:OD1	1:S:649:VAL:N	2.28	0.65
1:A:831:TRP:CH2	2:B:47:LEU:HA	2.31	0.65
1:D:466:GLY:HA2	1:D:484:ASN:ND2	2.11	0.65
1:G:61:THR:HG23	1:G:71:THR:OG1	1.94	0.65
1:J:599:ASN:OD1	1:J:649:VAL:N	2.29	0.65
1:M:322:VAL:HB	1:M:325:ILE:CD1	2.26	0.65
1:M:374:GLN:HG3	1:M:375:ALA:H	1.59	0.65
1:M:530:MET:CA	4:Z:354:GLN:CB	2.74	0.65
1:S:217:THR:C	1:S:221:GLN:HG2	2.21	0.65
3:U:45:GLU:O	3:U:49:ILE:HG13	1.97	0.65
4:2:112:PRO:HG3	4:3:197:GLY:H	1.61	0.65
4:8:160:THR:HG21	4:8:274:ILE:HD11	1.76	0.65
4:V:160:THR:HG21	4:V:274:ILE:HD11	1.76	0.65
4:V:288:ASP:H	4:X:204:ALA:H	1.43	0.65
1:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.65
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.65
1:D:643:GLY:H	4:9:23:GLY:C	2.02	0.65
1:D:665:ARG:C	1:D:667:THR:H	2.05	0.65
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.65
1:G:94:MET:O	1:G:713:SER:CA	2.43	0.65
1:G:797:PHE:HE2	3:I:126:LEU:CG	2.08	0.65
1:J:530:MET:CG	4:W:354:GLN:CG	2.72	0.65
1:J:791:GLN:NE2	3:L:116:GLU:N	2.44	0.65
1:M:339:ASP:OD1	1:M:348:MLY:HH13	1.95	0.65
1:S:131:TRP:O	1:S:132:LEU:HD12	1.95	0.65
1:S:296:MLY:HH11	1:S:348:MLY:HH21	1.78	0.65
1:S:418:THR:HG22	1:S:419:VAL:N	2.11	0.65
1:S:635:GLY:O	4:2:341:ILE:HG21	1.95	0.65
1:S:691:VAL:O	1:S:695:LEU:HD13	1.96	0.65
1:S:749:GLY:C	3:U:89:GLU:HB3	2.20	0.65
1:S:805:ALA:O	1:S:808:GLU:N	2.29	0.65
4:W:324:THR:HG23	4:Y:247:VAL:H	1.61	0.65
4:X:287:ILE:O	4:Z:205:GLU:CD	2.38	0.65
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.65
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.65
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.65
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.65
1:M:217:THR:C	1:M:221:GLN:HG2	2.22	0.65
1:M:831:TRP:CZ2	2:N:47:LEU:CD2	2.76	0.65
1:S:410:ASN:CG	4:2:334:GLU:C	2.65	0.65
1:S:480:ILE:HG22	1:S:481:ASN:N	2.11	0.65
4:3:288:ASP:CB	4:5:203:THR:HG21	2.25	0.65
4:V:324:THR:HG23	4:X:247:VAL:H	1.61	0.65
4:W:288:ASP:H	4:Y:204:ALA:H	1.43	0.65
1:A:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.65
1:A:161:ASN:O	1:A:165:PHE:HB2	1.96	0.65
1:A:322:VAL:HB	1:A:325:ILE:CD1	2.26	0.65
1:A:466:GLY:HA2	1:A:484:ASN:ND2	2.12	0.65
1:D:144:ARG:NH1	1:D:160:ASP:OD1	2.29	0.65
1:D:541:MET:O	4:9:143:TYR:OH	2.14	0.65
1:D:800:ARG:HB3	3:F:149:VAL:CG1	2.27	0.65
1:G:131:TRP:O	1:G:132:LEU:HD12	1.95	0.65
1:G:530:MET:CG	4:V:354:GLN:CG	2.71	0.65
1:G:754:ASP:CG	1:G:779:ARG:CB	2.69	0.65
1:G:818:TYR:HB3	2:H:90:GLY:HA3	1.78	0.65
1:J:530:MET:CA	4:W:354:GLN:CB	2.74	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:635:GLY:O	4:Z:341:ILE:HG21	1.95	0.65
1:M:642:LYS:HA	4:Z:21:PHE:O	1.96	0.65
1:M:806:MET:C	1:M:807:VAL:HA	2.21	0.65
1:M:820:VAL:HG11	2:N:136:MET:CE	2.27	0.65
1:S:541:MET:O	4:2:143:TYR:OH	2.13	0.65
1:S:725:ARG:NE	1:S:737:PHE:HE1	1.95	0.65
1:S:839:MLY:CD	2:T:159:HIS:HB3	2.26	0.65
4:1:204:ALA:H	4:Y:288:ASP:H	1.43	0.65
4:1:287:ILE:HB	4:3:203:THR:CB	2.27	0.65
1:A:642:LYS:HA	4:8:21:PHE:O	1.96	0.65
3:C:45:GLU:O	3:C:49:ILE:HG13	1.97	0.65
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.65
1:D:530:MET:CA	4:9:354:GLN:CB	2.74	0.65
1:G:161:ASN:O	1:G:165:PHE:HB2	1.96	0.65
1:J:174:SER:O	1:J:670:HIS:HB2	1.95	0.65
1:J:557:GLU:CB	4:Y:47:MET:C	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:612:GLN:HE22	1:J:627:GLY:N	1.95	0.65
1:M:144:ARG:NH1	1:M:160:ASP:OD1	2.29	0.65
1:M:732:ILE:CG2	1:M:747:LEU:HD11	1.26	0.65
3:O:45:GLU:O	3:O:49:ILE:HG13	1.97	0.65
1:S:792:ALA:HB1	3:U:42:THR:N	2.11	0.65
1:A:504:MLY:C	1:A:762:HIS:NE2	2.59	0.65
1:A:799:MET:HE1	3:C:32:ASP:HB3	1.74	0.65
1:D:822:SER:O	1:D:825:ASN:HB2	1.97	0.65
3:F:45:GLU:O	3:F:49:ILE:HG13	1.97	0.65
1:G:466:GLY:HA2	1:G:484:ASN:ND2	2.12	0.65
1:J:84:MLY:HH23	1:J:719:ASP:C	2.22	0.65
1:J:217:THR:HB	1:J:220:ASP:OD2	1.97	0.65
1:S:752:ASP:N	1:S:779:ARG:HH21	1.95	0.65
4:2:287:ILE:CG1	4:4:203:THR:HB	2.26	0.65
1:D:217:THR:C	1:D:221:GLN:HG2	2.21	0.65
1:D:296:MLY:HH11	1:D:348:MLY:HH21	1.78	0.65
1:D:691:VAL:O	1:D:695:LEU:HD13	1.97	0.65
1:D:713:SER:HG	1:D:771:LEU:HG	1.57	0.65
2:E:146:GLY:O	2:E:147:ASN:HB2	1.96	0.65
1:G:149:GLN:HG2	1:G:763:THR:HG21	0.65	0.65
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.65
1:J:97:LEU:CD2	1:J:712:PRO:HB3	2.26	0.65
1:J:466:GLY:HA2	1:J:484:ASN:HD21	1.61	0.65
1:J:797:PHE:CE1	3:L:146:ILE:CB	2.71	0.65
1:J:831:TRP:CZ2	2:K:47:LEU:HD22	2.32	0.65
1:M:217:THR:HB	1:M:220:ASP:OD2	1.97	0.65
1:M:798:LEU:CD1	3:O:126:LEU:CG	2.56	0.65
1:S:530:MET:CG	4:2:354:GLN:CG	2.72	0.65
1:S:544:LYS:HD3	4:4:45:VAL:CG2	2.27	0.65
1:S:817:GLN:HB3	2:T:127:ARG:CZ	2.25	0.65
1:S:821:ARG:HH22	2:T:127:ARG:NE	1.95	0.65
4:X:291:LYS:HG3	4:Z:244:ASP:N	1.86	0.65
1:D:814:PHE:CD1	2:E:127:ARG:CZ	2.79	0.65
1:G:530:MET:CA	4:V:354:GLN:CB	2.75	0.65
1:J:217:THR:C	1:J:221:GLN:HG2	2.21	0.65
1:J:296:MLY:HH11	1:J:348:MLY:HH21	1.78	0.65
1:J:819:ASN:HD21	2:K:92:ASP:HB2	1.56	0.65
1:J:822:SER:O	1:J:825:ASN:HB2	1.97	0.65
1:M:466:GLY:HA2	1:M:484:ASN:HD21	1.61	0.65
1:M:725:ARG:NE	1:M:737:PHE:HE1	1.95	0.65
1:M:795:ARG:NE	3:O:118:MET:HE1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:803:TYR:CE2	3:O:17:PHE:CZ	2.84	0.65
1:S:94:MET:HE1	1:S:101:ALA:HB1	1.79	0.65
1:S:642:LYS:CD	4:2:24:ASP:O	2.43	0.65
1:S:795:ARG:CZ	3:U:116:GLU:CB	2.59	0.65
4:X:287:ILE:CB	4:Z:201:VAL:HG23	2.27	0.65
1:A:217:THR:C	1:A:221:GLN:HG2	2.21	0.64
1:A:217:THR:HB	1:A:220:ASP:OD2	1.97	0.64
1:A:339:ASP:OD1	1:A:348:MLY:HH13	1.95	0.64
1:A:504:MLY:HB2	1:A:762:HIS:CE1	2.33	0.64
1:A:635:GLY:O	4:8:341:ILE:HG21	1.96	0.64
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	0.64
1:D:479:CYS:HB3	1:D:653:PHE:CE2	2.32	0.64
1:D:732:ILE:CG2	1:D:782:MLY:CH2	2.55	0.64
1:D:799:MET:SD	3:F:32:ASP:OD2	2.54	0.64
1:G:665:ARG:C	1:G:667:THR:H	2.05	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:725:ARG:NE	1:J:737:PHE:HE1	1.95	0.64
1:M:541:MET:O	4:Z:143:TYR:OH	2.14	0.64
1:M:691:VAL:O	1:M:695:LEU:HD13	1.96	0.64
1:S:821:ARG:NH2	2:T:127:ARG:NE	2.45	0.64
1:A:133:PRO:O	1:A:136:ASN:HB2	1.98	0.64
1:A:636:LYS:O	1:A:637:LYS:CB	2.45	0.64
1:D:534:SER:C	4:9:351:THR:CA	2.47	0.64
1:G:218:LEU:CD2	1:G:222:ILE:HG12	2.28	0.64
1:G:541:MET:O	4:V:143:TYR:OH	2.13	0.64
1:G:725:ARG:NE	1:G:737:PHE:HE1	1.95	0.64
1:G:806:MET:O	1:G:809:ARG:HB2	1.98	0.64
1:G:813:ILE:CG2	2:H:128:PHE:HE1	2.10	0.64
1:G:822:SER:O	1:G:825:ASN:HB2	1.97	0.64
1:J:161:ASN:O	1:J:165:PHE:HB2	1.96	0.64
1:J:505:MLY:CG	1:J:762:HIS:CE1	2.80	0.64
1:M:61:THR:HG23	1:M:71:THR:OG1	1.95	0.64
1:M:642:LYS:CA	4:Z:21:PHE:O	2.45	0.64
1:M:665:ARG:C	1:M:667:THR:H	2.05	0.64
2:N:140:PHE:HB3	2:N:144:VAL:CG1	2.28	0.64
1:S:502:GLU:OE1	1:S:761:GLY:HA2	1.95	0.64
1:S:642:LYS:CA	4:2:21:PHE:O	2.45	0.64
1:S:786:ILE:C	1:S:787:ILE:CA	2.70	0.64
2:T:140:PHE:HB3	2:T:144:VAL:CG1	2.28	0.64
1:D:217:THR:HB	1:D:220:ASP:OD2	1.97	0.64

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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	0.64
1:G:133:PRO:O	1:G:136:ASN:HB2	1.98	0.64
1:G:374:GLN:HG3	1:G:375:ALA:H	1.60	0.64
1:G:791:GLN:CD	3:I:116:GLU:N	2.52	0.64
1:G:813:ILE:HG23	2:H:128:PHE:CE1	2.31	0.64
1:J:226:ASN:HB2	1:J:227:PRO:HD3	1.78	0.64
1:J:636:LYS:O	1:J:637:LYS:CB	2.45	0.64
1:J:806:MET:O	1:J:809:ARG:HB2	1.98	0.64
1:M:215:GLN:CA	1:M:340:ILE:CG2	2.62	0.64
1:S:466:GLY:HA2	1:S:484:ASN:HD21	1.61	0.64
1:S:806:MET:CA	1:S:807:VAL:N	2.59	0.64
1:S:817:GLN:CD	2:T:127:ARG:CD	2.58	0.64
1:S:831:TRP:HE1	2:T:67:MET:CG	2.10	0.64
2:T:146:GLY:O	2:T:147:ASN:HB2	1.96	0.64
4:3:288:ASP:CB	4:5:203:THR:CG2	2.75	0.64
1:A:149:GLN:HB3	1:A:719:ASP:CA	2.27	0.64
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	0.64
1:A:665:ARG:C	1:A:667:THR:H	2.05	0.64
1:A:806:MET:O	1:A:809:ARG:HB2	1.98	0.64
1:A:822:SER:O	1:A:825:ASN:HB2	1.97	0.64
1:D:107:MLY:HB3	1:D:686:MET:CE	2.26	0.64
1:D:636:LYS:O	1:D:637:LYS:CB	2.45	0.64
1:D:642:LYS:CD	4:9:24:ASP:O	2.42	0.64
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.79	0.64
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	0.64
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.64
1:G:691:VAL:O	1:G:695:LEU:HD13	1.97	0.64
2:H:140:PHE:HB3	2:H:144:VAL:CG1	2.28	0.64
1:S:506:GLU:CD	1:S:760:PHE:HD1	2.02	0.64
1:S:636:LYS:O	1:S:637:LYS:CB	2.45	0.64
3:U:24:LYS:HA	3:U:63:ILE:O	1.95	0.64
1:A:95:THR:HG1	1:A:769:ALA:CA	2.05	0.64
1:A:530:MET:CG	4:8:354:GLN:CG	2.71	0.64
1:A:831:TRP:CZ2	2:B:47:LEU:CA	2.63	0.64
2:B:140:PHE:HB3	2:B:144:VAL:CG1	2.28	0.64
1:G:278:GLN:CG	1:G:317:GLU:HB2	2.26	0.64
1:G:406:VAL:HG12	1:G:407:GLY:N	2.13	0.64
1:G:769:ALA:CB	1:G:770:GLY:N	2.61	0.64
1:J:49:MLY:HH23	1:J:80:MET:HE3	1.80	0.64
1:J:541:MET:HG2	4:W:345:ILE:O	1.98	0.64
1:J:756:THR:HG23	1:J:779:ARG:HD3	1.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:218:LEU:CD2	1:M:222:ILE:HG12	2.28	0.64
1:M:410:ASN:CG	4:Z:334:GLU:C	2.65	0.64
1:S:797:PHE:CD1	3:U:149:VAL:CG1	2.81	0.64
1:S:804:ARG:C	1:S:808:GLU:H	2.06	0.64
3:U:49:ILE:HA	3:U:52:ASN:ND2	2.06	0.64
4:1:287:ILE:HG13	4:3:202:THR:HA	1.78	0.64
1:A:218:LEU:CD2	1:A:222:ILE:HG12	2.28	0.64
1:A:797:PHE:CD1	3:C:149:VAL:HG12	2.32	0.64
1:D:49:MLY:HH23	1:D:80:MET:HE3	1.80	0.64
1:D:798:LEU:CD1	3:F:126:LEU:HD21	2.26	0.64
1:G:783:LEU:HD12	1:G:783:LEU:N	2.13	0.64
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.64
1:M:133:PRO:O	1:M:136:ASN:HB2	1.98	0.64
1:M:466:GLY:HA2	1:M:484:ASN:ND2	2.12	0.64
2:N:140:PHE:O	2:N:141:PRO:C	2.33	0.64
1:S:107:MLY:HB3	1:S:686:MET:CE	2.27	0.64
1:S:541:MET:HG2	4:2:345:ILE:O	1.98	0.64
1:S:549:SER:HB2	4:4:43:VAL:HG11	1.80	0.64
1:S:665:ARG:C	1:S:667:THR:H	2.05	0.64
2:T:144:VAL:HA	2:T:153:ILE:HD11	1.80	0.64
4:X:287:ILE:CG1	4:Z:201:VAL:CB	2.75	0.64
4:X:291:LYS:HG3	4:Z:243:PRO:C	2.22	0.64
1:A:541:MET:HG2	4:8:345:ILE:O	1.98	0.64
1:A:691:VAL:O	1:A:695:LEU:HD13	1.97	0.64
2:E:117:LEU:CG	2:E:147:ASN:CB	2.76	0.64
1:G:210:GLN:O	1:G:211:SER:OG	2.15	0.64
1:G:636:LYS:O	1:G:637:LYS:CB	2.45	0.64
2:H:144:VAL:CG1	2:H:153:ILE:HD13	2.19	0.64
1:J:543:PRO:HG2	4:W:143:TYR:O	1.98	0.64
1:M:530:MET:CG	4:Z:354:GLN:CG	2.72	0.64
1:M:541:MET:HG2	4:Z:345:ILE:O	1.98	0.64
1:M:822:SER:O	1:M:825:ASN:HB2	1.97	0.64
2:N:144:VAL:HA	2:N:153:ILE:HD11	1.80	0.64
1:S:92:ALA:CB	1:S:764:MLY:CH1	2.69	0.64
1:S:783:LEU:HD12	1:S:783:LEU:N	2.13	0.64
1:S:805:ALA:CA	1:S:808:GLU:N	2.59	0.64
1:A:541:MET:O	4:8:143:TYR:OH	2.14	0.64
1:A:612:GLN:HE22	1:A:627:GLY:N	1.94	0.64
2:B:146:GLY:O	2:B:147:ASN:HB2	1.96	0.64
1:D:127:ASN:HD22	1:D:128:PRO:CD	2.11	0.64
1:D:642:LYS:HA	4:9:21:PHE:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:823:PHE:CE1	2:E:160:GLY:CA	2.76	0.64
1:G:538:GLU:HA	4:V:349:LEU:HB3	1.79	0.64
1:G:642:LYS:HA	4:V:21:PHE:O	1.97	0.64
1:G:795:ARG:N	3:I:118:MET:HE3	2.13	0.64
1:J:556:ASP:OD2	4:Y:47:MET:CE	2.40	0.64
1:J:795:ARG:HE	3:L:116:GLU:HB3	1.63	0.64
3:L:45:GLU:O	3:L:49:ILE:HG13	1.96	0.64
1:M:94:MET:HE1	1:M:101:ALA:HB1	1.79	0.64
1:M:803:TYR:HD2	3:O:17:PHE:HZ	1.34	0.64
1:S:546:THR:HG21	4:4:46:GLY:C	2.21	0.64
4:Y:190:MET:SD	4:Y:209:VAL:HG11	2.38	0.64
1:A:636:LYS:N	4:8:334:GLU:OE1	2.31	0.64
1:A:752:ASP:OD2	1:A:782:MLY:HG2	1.98	0.64
2:B:144:VAL:HA	2:B:153:ILE:HD11	1.80	0.64
1:D:218:LEU:CD2	1:D:222:ILE:HG12	2.28	0.64
1:D:806:MET:O	1:D:809:ARG:HB2	1.98	0.64
3:F:49:ILE:HA	3:F:52:ASN:ND2	2.05	0.64
1:G:503:TYR:CZ	1:G:711:PHE:CE2	2.85	0.64
1:G:612:GLN:HE22	1:G:627:GLY:N	1.94	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:553:MLY:O	4:Y:46:GLY:CA	2.45	0.64
1:J:577:ALA:O	1:J:578:HIS:CD2	2.51	0.64
1:J:642:LYS:HA	4:W:21:PHE:O	1.96	0.64
1:J:710:GLY:O	1:J:772:LEU:CD2	2.45	0.64
1:J:725:ARG:NE	1:J:737:PHE:CE1	2.66	0.64
1:J:732:ILE:CG2	1:J:747:LEU:HD11	1.26	0.64
1:M:530:MET:HA	4:Z:354:GLN:CB	2.28	0.64
1:M:612:GLN:HE22	1:M:627:GLY:N	1.95	0.64
1:M:732:ILE:HG21	1:M:747:LEU:HD11	0.73	0.64
1:M:783:LEU:HD12	1:M:783:LEU:N	2.13	0.64
1:S:541:MET:CA	4:2:143:TYR:OH	2.46	0.64
1:S:791:GLN:OE1	3:U:116:GLU:CG	2.46	0.64
4:3:190:MET:SD	4:3:209:VAL:HG11	2.38	0.64
4:5:190:MET:SD	4:5:209:VAL:HG11	2.38	0.64
1:A:725:ARG:NE	1:A:737:PHE:HE1	1.95	0.64
2:B:132:GLU:O	2:B:136:MET:HG2	1.99	0.64
1:D:133:PRO:O	1:D:136:ASN:HB2	1.98	0.64
1:D:537:GLU:HB3	1:D:648:THR:HB	1.80	0.64
1:D:577:ALA:O	1:D:578:HIS:CD2	2.51	0.64
1:G:479:CYS:HB3	1:G:653:PHE:CE2	2.33	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
1:G:577:ALA:O	1:G:578:HIS:CD2	2.51	0.64
1:G:642:LYS:CA	4:V:21:PHE:O	2.46	0.64
1:G:791:GLN:HE22	3:I:115:GLY:C	2.01	0.64
1:J:479:CYS:HB3	1:J:653:PHE:CE2	2.33	0.64
2:K:140:PHE:HB3	2:K:144:VAL:CG1	2.28	0.64
1:M:84:MLY:HB3	1:M:723:ARG:HD2	1.78	0.64
1:M:93:MET:CE	1:M:764:MLY:NZ	2.61	0.64
1:M:127:ASN:HD22	1:M:128:PRO:CD	2.11	0.64
1:M:479:CYS:HB3	1:M:653:PHE:CE2	2.33	0.64
1:M:636:LYS:O	1:M:637:LYS:CB	2.45	0.64
1:M:798:LEU:HD13	3:O:126:LEU:CD1	2.27	0.64
1:S:538:GLU:HA	4:2:349:LEU:HB3	1.78	0.64
1:S:725:ARG:NE	1:S:737:PHE:CE1	2.66	0.64
4:4:288:ASP:CB	4:6:203:THR:CG2	2.75	0.64
1:A:577:ALA:O	1:A:578:HIS:CD2	2.51	0.63
1:A:724:TYR:HB3	1:A:727:LEU:HD12	1.80	0.63
1:A:783:LEU:HD12	1:A:783:LEU:N	2.13	0.63
2:B:117:LEU:CG	2:B:147:ASN:CB	2.76	0.63
1:D:541:MET:SD	4:9:346:LEU:O	2.48	0.63
1:G:553:MLY:O	4:X:46:GLY:CA	2.45	0.63
1:G:817:GLN:HG3	2:H:128:PHE:CZ	2.32	0.63
3:I:45:GLU:O	3:I:49:ILE:HG13	1.97	0.63
1:J:218:LEU:CD2	1:J:222:ILE:HG12	2.28	0.63
1:J:406:VAL:HG12	1:J:407:GLY:N	2.13	0.63
1:S:84:MLY:NZ	1:S:724:TYR:CE2	2.64	0.63
1:S:278:GLN:CG	1:S:317:GLU:HB2	2.27	0.63
1:S:798:LEU:HD11	3:U:126:LEU:HD13	1.69	0.63
1:A:202:SER:CA	1:A:207:LYS:HE3	2.27	0.63
1:A:537:GLU:HB3	1:A:648:THR:HB	1.80	0.63
1:D:541:MET:HG2	4:9:345:ILE:O	1.98	0.63
1:D:725:ARG:NE	1:D:737:PHE:HE1	1.95	0.63
1:G:107:MLY:HB3	1:G:686:MET:CE	2.27	0.63
1:G:149:GLN:HG2	1:G:763:THR:HG22	1.69	0.63
1:G:784:ALA:O	1:G:788:THR:CB	2.45	0.63
2:H:146:GLY:O	2:H:147:ASN:CB	2.46	0.63
1:J:480:ILE:HG22	1:J:481:ASN:N	2.11	0.63
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.63
1:M:725:ARG:NE	1:M:737:PHE:CE1	2.67	0.63
1:M:805:ALA:O	1:M:809:ARG:CB	2.42	0.63
1:S:144:ARG:NH1	1:S:160:ASP:OD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:505:MLY:CH2	1:S:762:HIS:CD2	2.80	0.63
1:S:804:ARG:C	1:S:807:VAL:CB	2.68	0.63
4:1:190:MET:SD	4:1:209:VAL:HG11	2.38	0.63
4:W:190:MET:SD	4:W:209:VAL:HG11	2.38	0.63
1:A:541:MET:CA	4:8:143:TYR:OH	2.47	0.63
1:A:795:ARG:NH2	3:C:116:GLU:CB	2.46	0.63
1:A:817:GLN:HG3	2:B:127:ARG:CG	2.28	0.63
1:A:818:TYR:HB2	2:B:90:GLY:N	2.13	0.63
1:D:480:ILE:HG22	1:D:481:ASN:N	2.11	0.63
1:J:107:MLY:HB3	1:J:686:MET:CE	2.27	0.63
1:J:544:LYS:HB2	4:W:147:ARG:HA	1.80	0.63
1:J:757:GLN:N	1:J:776:GLU:HB3	2.12	0.63
2:K:132:GLU:O	2:K:136:MET:HG2	1.99	0.63
1:S:133:PRO:O	1:S:136:ASN:HB2	1.98	0.63
1:S:544:LYS:HB2	4:2:147:ARG:HA	1.80	0.63
1:S:805:ALA:HA	1:S:808:GLU:CB	2.21	0.63
1:S:805:ALA:N	1:S:807:VAL:N	2.47	0.63
4:V:190:MET:SD	4:V:209:VAL:HG11	2.38	0.63
1:D:724:TYR:HB3	1:D:727:LEU:HD12	1.80	0.63
2:E:140:PHE:HB3	2:E:144:VAL:CG1	2.28	0.63
2:E:146:GLY:O	2:E:147:ASN:CB	2.46	0.63
1:G:217:THR:HB	1:G:220:ASP:OD2	1.97	0.63
1:G:537:GLU:HB3	1:G:648:THR:HB	1.81	0.63
1:G:836:PHE:CE2	2:H:160:GLY:N	2.61	0.63
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	0.63
1:J:410:ASN:CG	4:W:334:GLU:C	2.65	0.63
1:J:642:LYS:CA	4:W:21:PHE:O	2.45	0.63
1:J:724:TYR:HB3	1:J:727:LEU:HD12	1.80	0.63
1:M:537:GLU:HB3	1:M:648:THR:HB	1.80	0.63
1:M:795:ARG:HH22	3:O:116:GLU:CB	2.00	0.63
2:N:146:GLY:O	2:N:147:ASN:CB	2.46	0.63
1:S:127:ASN:HD22	1:S:128:PRO:CD	2.11	0.63
1:S:546:THR:OG1	4:4:47:MET:N	2.31	0.63
1:S:546:THR:HG23	4:4:46:GLY:O	1.97	0.63
4:2:287:ILE:HB	4:4:203:THR:CB	2.27	0.63
1:A:831:TRP:CZ3	2:B:34:ILE:HG12	2.33	0.63
1:D:636:LYS:N	4:9:334:GLU:OE1	2.31	0.63
1:G:725:ARG:NE	1:G:737:PHE:CE1	2.67	0.63
1:J:84:MLY:HD2	1:J:724:TYR:CE2	2.27	0.63
1:J:829:TRP:CH2	2:K:84:PHE:CE1	2.86	0.63
2:K:144:VAL:CG1	2:K:153:ILE:HD13	2.20	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:93:MET:HE2	1:M:764:MLY:NZ	2.13	0.63
1:M:107:MLY:HB3	1:M:686:MET:CE	2.27	0.63
1:M:767:PHE:CZ	1:M:772:LEU:HD13	2.32	0.63
1:S:49:MLY:HH23	1:S:80:MET:HE3	1.80	0.63
1:S:217:THR:HB	1:S:220:ASP:OD2	1.97	0.63
1:S:502:GLU:CD	1:S:761:GLY:HA2	2.22	0.63
1:S:818:TYR:CE1	2:T:127:ARG:CZ	2.80	0.63
1:S:822:SER:O	1:S:825:ASN:HB2	1.97	0.63
4:1:257:CYS:HB3	4:1:258:PRO:HD3	1.81	0.63
4:Y:257:CYS:HB3	4:Y:258:PRO:HD3	1.81	0.63
1:A:278:GLN:CG	1:A:317:GLU:HB2	2.27	0.63
1:A:642:LYS:CA	4:8:21:PHE:O	2.46	0.63
1:A:725:ARG:NE	1:A:737:PHE:CE1	2.67	0.63
1:D:795:ARG:HB2	3:F:35:ARG:NH1	2.12	0.63
1:G:202:SER:CA	1:G:207:LYS:HE3	2.28	0.63
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.63
1:J:556:ASP:OD2	4:Y:47:MET:HE3	1.86	0.63
1:M:202:SER:CA	1:M:207:LYS:HE3	2.27	0.63
1:M:577:ALA:O	1:M:578:HIS:CD2	2.51	0.63
2:N:132:GLU:O	2:N:136:MET:HG2	1.99	0.63
1:S:577:ALA:O	1:S:578:HIS:CD2	2.51	0.63
1:S:612:GLN:HE22	1:S:627:GLY:N	1.95	0.63
1:S:804:ARG:O	1:S:807:VAL:HB	1.98	0.63
4:9:257:CYS:HB3	4:9:258:PRO:HD3	1.81	0.63
4:W:257:CYS:HB3	4:W:258:PRO:HD3	1.81	0.63
1:A:149:GLN:CB	1:A:718:ALA:CB	2.67	0.63
1:A:642:LYS:CD	4:8:340:TRP:CZ3	2.79	0.63
2:B:146:GLY:O	2:B:147:ASN:CB	2.46	0.63
1:D:538:GLU:HA	4:9:349:LEU:HB3	1.78	0.63
1:D:642:LYS:CD	4:9:340:TRP:CZ3	2.79	0.63
1:D:783:LEU:HD12	1:D:783:LEU:N	2.13	0.63
1:G:829:TRP:CZ2	2:H:83:MET:HE3	2.33	0.63
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.63
1:J:141:LEU:H	1:J:141:LEU:HD12	1.64	0.63
1:J:251:ARG:HB2	1:J:264:ASP:CB	2.29	0.63
1:M:278:GLN:CG	1:M:317:GLU:HB2	2.27	0.63
1:M:544:LYS:HB2	4:Z:147:ARG:HA	1.80	0.63
1:S:406:VAL:HG12	1:S:407:GLY:N	2.13	0.63
1:S:640:LYS:C	4:2:23:GLY:CA	2.64	0.63
4:3:257:CYS:HB3	4:3:258:PRO:HD3	1.81	0.63
4:7:190:MET:SD	4:7:209:VAL:HG11	2.38	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:93:MET:CE	1:A:716:LEU:H	2.11	0.63
1:A:551:MLY:C	4:V:46:GLY:O	2.47	0.63
2:B:121:LEU:HA	2:B:128:PHE:CG	2.34	0.63
1:D:202:SER:CA	1:D:207:LYS:HE3	2.27	0.63
1:D:541:MET:CA	4:9:143:TYR:OH	2.47	0.63
1:D:544:LYS:HB2	4:9:147:ARG:HA	1.80	0.63
1:D:642:LYS:CA	4:9:21:PHE:O	2.46	0.63
1:D:798:LEU:CD1	3:F:126:LEU:CD2	2.76	0.63
1:D:831:TRP:CH2	2:E:34:ILE:CG2	2.82	0.63
1:G:642:LYS:CD	4:V:340:TRP:CZ3	2.80	0.63
1:G:771:LEU:O	1:G:774:LEU:N	2.32	0.63
1:J:537:GLU:HB3	1:J:648:THR:HB	1.80	0.63
1:J:636:LYS:N	4:W:334:GLU:OE1	2.31	0.63
1:J:795:ARG:HE	3:L:116:GLU:CD	2.04	0.63
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.34	0.63
1:J:831:TRP:CH2	2:K:47:LEU:HD22	2.32	0.63
2:K:144:VAL:HA	2:K:153:ILE:HD11	1.80	0.63
1:M:724:TYR:HD1	1:M:727:LEU:HD11	1.64	0.63
1:M:771:LEU:O	1:M:774:LEU:N	2.32	0.63
1:S:141:LEU:HD12	1:S:141:LEU:H	1.64	0.63
1:S:202:SER:CA	1:S:207:LYS:HE3	2.27	0.63
1:S:218:LEU:CD2	1:S:222:ILE:HG12	2.28	0.63
4:3:287:ILE:CB	4:5:203:THR:HG22	2.29	0.63
4:7:257:CYS:HB3	4:7:258:PRO:HD3	1.81	0.63
4:8:190:MET:SD	4:8:209:VAL:HG11	2.38	0.63
4:X:190:MET:SD	4:X:209:VAL:HG11	2.38	0.63
4:X:324:THR:O	4:Z:245:GLY:HA3	1.98	0.63
4:Z:190:MET:SD	4:Z:209:VAL:HG11	2.38	0.63
1:A:141:LEU:H	1:A:141:LEU:HD12	1.64	0.63
1:A:479:CYS:HB3	1:A:653:PHE:CE2	2.33	0.63
1:A:724:TYR:HD1	1:A:727:LEU:HD11	1.64	0.63
1:D:537:GLU:HG3	4:9:350:SER:O	1.79	0.63
1:D:724:TYR:HD1	1:D:782:MLY:CD	2.10	0.63
2:E:132:GLU:O	2:E:136:MET:HG2	1.99	0.63
1:G:127:ASN:HD22	1:G:128:PRO:CD	2.11	0.63
1:M:642:LYS:CD	4:Z:340:TRP:CZ3	2.79	0.63
1:M:798:LEU:HD11	3:O:126:LEU:CD1	2.29	0.63
1:S:505:MLY:HH21	1:S:762:HIS:NE2	2.14	0.63
1:S:818:TYR:CZ	2:T:127:ARG:NH2	2.44	0.63
2:T:132:GLU:O	2:T:136:MET:HG2	1.98	0.63
4:X:286:ASP:OD1	4:Z:202:THR:CA	2.44	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.62
1:A:542:PHE:CZ	1:A:553:MLY:HH11	2.34	0.62
1:A:752:ASP:OD2	1:A:782:MLY:HD3	1.99	0.62
1:A:797:PHE:CD1	3:C:146:ILE:HG23	2.33	0.62
1:D:251:ARG:HB2	1:D:264:ASP:CB	2.29	0.62
1:D:725:ARG:NE	1:D:737:PHE:CE1	2.67	0.62
1:D:726:VAL:C	1:D:785:GLU:HG2	2.23	0.62
1:D:767:PHE:O	1:D:771:LEU:HD21	1.98	0.62
1:G:724:TYR:HB3	1:G:727:LEU:HD12	1.80	0.62
1:G:789:ALA:HB1	3:I:81:GLN:NE2	2.14	0.62
1:J:735:GLY:O	1:J:743:ALA:HA	1.94	0.62
1:M:406:VAL:HG12	1:M:407:GLY:N	2.13	0.62
1:M:551:MLY:C	4:2:46:GLY:O	2.47	0.62
3:O:24:LYS:HB3	3:O:63:ILE:H	1.64	0.62
1:S:537:GLU:HB3	1:S:648:THR:HB	1.80	0.62
1:S:636:LYS:N	4:2:334:GLU:OE1	2.31	0.62
1:S:731:ALA:CB	3:U:94:PHE:N	2.61	0.62
1:S:793:ARG:NH1	3:U:40:ASN:HB2	2.13	0.62
2:T:144:VAL:CG1	2:T:153:ILE:HD13	2.20	0.62
4:5:257:CYS:HB3	4:5:258:PRO:HD3	1.81	0.62
4:6:257:CYS:HB3	4:6:258:PRO:HD3	1.81	0.62
4:8:257:CYS:HB3	4:8:258:PRO:HD3	1.81	0.62
4:9:190:MET:SD	4:9:209:VAL:HG11	2.38	0.62
4:X:324:THR:OG1	4:Z:246:GLN:HA	1.99	0.62
1:A:302:MET:HG2	1:A:303:LEU:CD1	2.30	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:G:557:GLU:HB2	4:X:47:MET:N	2.11	0.62
2:H:132:GLU:O	2:H:136:MET:HG2	1.99	0.62
1:M:251:ARG:HB2	1:M:264:ASP:CB	2.29	0.62
1:M:580:SER:HA	1:M:588:VAL:O	2.00	0.62
1:M:724:TYR:HB3	1:M:727:LEU:HD12	1.80	0.62
1:M:792:ALA:CB	3:O:42:THR:HG22	2.22	0.62
1:M:817:GLN:HB3	2:N:127:ARG:HD3	1.78	0.62
2:N:111:SER:OG	2:N:148:VAL:CG1	2.47	0.62
3:O:49:ILE:HA	3:O:52:ASN:ND2	2.06	0.62
1:S:746:LYS:O	3:U:93:VAL:CG2	2.47	0.62
1:S:795:ARG:CB	3:U:35:ARG:CZ	2.77	0.62
2:T:121:LEU:HA	2:T:128:PHE:CG	2.34	0.62
4:1:324:THR:CG2	4:3:244:ASP:HA	2.29	0.62
4:1:324:THR:OG1	4:3:244:ASP:CA	2.47	0.62
4:4:190:MET:SD	4:4:209:VAL:HG11	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:49:MLY:HH23	1:A:80:MET:HE3	1.80	0.62
1:A:530:MET:HA	4:8:354:GLN:CB	2.29	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	1.99	0.62
3:C:24:LYS:HB3	3:C:63:ILE:H	1.65	0.62
1:D:530:MET:CG	4:9:354:GLN:CG	2.71	0.62
1:D:538:GLU:HA	4:9:349:LEU:CG	2.28	0.62
1:D:542:PHE:CZ	1:D:553:MLY:HH11	2.34	0.62
1:D:724:TYR:HD1	1:D:727:LEU:HD11	1.64	0.62
1:D:834:LEU:CD2	2:E:54:MET:HG3	2.27	0.62
2:E:121:LEU:HA	2:E:128:PHE:CG	2.34	0.62
1:G:752:ASP:OD1	1:G:783:LEU:N	2.32	0.62
1:J:642:LYS:CD	4:W:340:TRP:CZ3	2.79	0.62
1:M:530:MET:HE1	4:Z:355:MET:SD	2.40	0.62
1:M:541:MET:CA	4:Z:143:TYR:OH	2.47	0.62
1:M:642:LYS:CD	4:Z:24:ASP:O	2.43	0.62
4:4:287:ILE:CG2	4:6:202:THR:CA	2.76	0.62
1:A:538:GLU:HA	4:8:349:LEU:CG	2.27	0.62
1:D:161:ASN:HA	1:D:164:GLN:HE21	1.64	0.62
1:D:278:GLN:HG3	1:D:318:GLY:N	2.15	0.62
1:D:771:LEU:O	1:D:774:LEU:N	2.32	0.62
1:D:800:ARG:HG2	3:F:149:VAL:HG22	1.80	0.62
1:G:141:LEU:H	1:G:141:LEU:HD12	1.64	0.62
1:G:274:ARG:HB2	1:G:285:TYR:CE2	2.34	0.62
1:G:530:MET:HA	4:V:354:GLN:CB	2.30	0.62
1:G:580:SER:HA	1:G:588:VAL:O	2.00	0.62
1:G:636:LYS:N	4:V:334:GLU:OE1	2.32	0.62
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.62
1:J:278:GLN:HG3	1:J:318:GLY:N	2.15	0.62
1:J:538:GLU:HA	4:W:349:LEU:CG	2.28	0.62
1:J:732:ILE:HG23	1:J:747:LEU:CB	1.84	0.62
2:K:121:LEU:HA	2:K:128:PHE:CG	2.34	0.62
1:M:95:THR:CB	1:M:713:SER:CB	2.77	0.62
1:M:202:SER:HA	1:M:207:LYS:HE3	1.72	0.62
1:M:803:TYR:O	1:M:807:VAL:HG23	1.99	0.62
1:S:578:HIS:CD2	1:S:591:ASN:HA	2.31	0.62
4:2:167:GLU:CD	4:4:43:VAL:O	2.42	0.62
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.62
1:A:278:GLN:HG3	1:A:318:GLY:N	2.15	0.62
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	0.62
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	0.62
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.30	0.62
1:D:839:MLY:CH1	2:E:159:HIS:CD2	2.82	0.62
1:G:49:MLY:HH23	1:G:80:MET:HE3	1.80	0.62
1:G:503:TYR:HE1	1:G:711:PHE:CD2	2.15	0.62
1:J:541:MET:CA	4:W:143:TYR:OH	2.46	0.62
1:J:771:LEU:O	1:J:774:LEU:N	2.32	0.62
2:K:146:GLY:O	2:K:147:ASN:CB	2.46	0.62
1:M:302:MET:HG2	1:M:303:LEU:CD1	2.30	0.62
1:M:542:PHE:CZ	1:M:553:MLY:HH11	2.34	0.62
1:M:543:PRO:HG2	4:Z:143:TYR:O	1.98	0.62
1:M:553:MLY:O	4:2:48:GLY:HA2	1.99	0.62
1:M:795:ARG:CB	3:O:35:ARG:CZ	2.77	0.62
1:S:98:HIS:HB3	1:S:100:PRO:CD	2.25	0.62
1:S:479:CYS:HB3	1:S:653:PHE:CE2	2.33	0.62
1:S:580:SER:HA	1:S:588:VAL:O	2.00	0.62
1:S:771:LEU:O	1:S:774:LEU:N	2.32	0.62
1:S:829:TRP:CZ3	2:T:84:PHE:CZ	2.87	0.62
4:2:190:MET:SD	4:2:209:VAL:HG11	2.38	0.62
1:A:543:PRO:HG2	4:8:143:TYR:O	1.98	0.62
1:A:580:SER:HA	1:A:588:VAL:O	2.00	0.62
1:A:771:LEU:O	1:A:774:LEU:N	2.32	0.62
1:D:406:VAL:HG12	1:D:407:GLY:N	2.13	0.62
1:D:727:LEU:CD1	1:D:782:MLY:CH1	2.56	0.62
1:G:544:LYS:HB2	4:V:147:ARG:HA	1.80	0.62
1:M:154:HIS:CE1	1:M:156:PHE:CD2	2.88	0.62
1:M:732:ILE:HG22	1:M:747:LEU:CD1	1.55	0.62
1:M:831:TRP:HE1	2:N:67:MET:CB	2.13	0.62
1:S:735:GLY:O	1:S:743:ALA:HA	1.94	0.62
1:S:798:LEU:CD1	3:U:126:LEU:HD13	2.22	0.62
2:T:111:SER:OG	2:T:148:VAL:CG1	2.48	0.62
2:T:112:ILE:C	2:T:147:ASN:O	2.42	0.62
3:U:24:LYS:HB3	3:U:63:ILE:H	1.64	0.62
4:4:257:CYS:HB3	4:4:258:PRO:HD3	1.81	0.62
1:A:817:GLN:CG	2:B:127:ARG:CG	2.76	0.62
1:D:542:PHE:CB	4:9:143:TYR:HE1	2.13	0.62
2:E:114:LYS:HG3	2:E:146:GLY:HA2	1.82	0.62
1:G:541:MET:CA	4:V:143:TYR:OH	2.47	0.62
1:M:49:MLY:HH23	1:M:80:MET:HE3	1.80	0.62
1:S:819:ASN:CB	2:T:90:GLY:O	2.48	0.62
4:1:361:GLU:HB3	4:1:369:ILE:HG12	1.82	0.62
4:Z:257:CYS:HB3	4:Z:258:PRO:HD3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:LYS:C	4:8:23:GLY:CA	2.64	0.62
1:G:251:ARG:HB2	1:G:264:ASP:CB	2.29	0.62
1:G:302:MET:HG2	1:G:303:LEU:CD1	2.30	0.62
1:J:84:MLY:NZ	1:J:724:TYR:CD2	2.68	0.62
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	0.62
1:J:542:PHE:CZ	1:J:553:MLY:HH11	2.34	0.62
1:J:580:SER:HA	1:J:588:VAL:O	2.00	0.62
1:J:795:ARG:HG3	3:L:116:GLU:OE2	1.99	0.62
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.62
1:M:84:MLY:HH12	1:M:715:VAL:CG1	2.19	0.62
1:M:161:ASN:HA	1:M:164:GLN:HE21	1.63	0.62
1:M:599:ASN:CG	1:M:649:VAL:HB	2.25	0.62
2:N:117:LEU:CG	2:N:147:ASN:CB	2.76	0.62
1:S:251:ARG:HB2	1:S:264:ASP:CB	2.29	0.62
1:S:724:TYR:HB3	1:S:727:LEU:HD12	1.80	0.62
1:S:797:PHE:CE2	3:U:146:ILE:HG23	2.34	0.62
4:6:190:MET:SD	4:6:209:VAL:HG11	2.38	0.62
4:X:257:CYS:HB3	4:X:258:PRO:HD3	1.81	0.62
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.62
1:A:410:ASN:CG	4:8:334:GLU:C	2.65	0.62
1:A:599:ASN:CG	1:A:649:VAL:HB	2.25	0.62
1:A:815:CYS:O	2:B:90:GLY:O	2.16	0.62
2:B:117:LEU:HD11	2:B:147:ASN:HB3	1.76	0.62
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.62
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	0.62
1:J:795:ARG:HA	3:L:118:MET:HE1	1.80	0.62
1:J:829:TRP:HZ3	2:K:84:PHE:CE2	2.18	0.62
1:S:154:HIS:CE1	1:S:156:PHE:CD2	2.88	0.62
1:S:530:MET:HE1	4:2:355:MET:SD	2.40	0.62
1:S:599:ASN:CG	1:S:649:VAL:HB	2.25	0.62
2:T:146:GLY:O	2:T:147:ASN:CB	2.46	0.62
3:U:50:LEU:O	3:U:53:PRO:HD2	2.00	0.62
3:U:52:ASN:N	3:U:53:PRO:HD2	2.15	0.62
4:V:257:CYS:HB3	4:V:258:PRO:HD3	1.81	0.62
4:X:361:GLU:HB3	4:X:369:ILE:HG12	1.82	0.62
1:A:98:HIS:HB3	1:A:100:PRO:CD	2.25	0.62
1:A:542:PHE:N	4:8:143:TYR:OH	2.33	0.62
2:B:112:ILE:C	2:B:147:ASN:O	2.42	0.62
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.62
1:D:530:MET:HE1	4:9:355:MET:SD	2.39	0.62
1:D:641:LYS:CE	1:D:647:GLN:CB	2.75	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:649:VAL:HA	1:D:649:VAL:HG22	1.80	0.62
1:D:747:LEU:HD22	1:D:782:MLY:HH11	1.78	0.62
1:G:98:HIS:HB3	1:G:100:PRO:CD	2.25	0.62
2:H:144:VAL:HA	2:H:153:ILE:HD11	1.80	0.62
1:J:161:ASN:HA	1:J:164:GLN:HE21	1.64	0.62
1:J:542:PHE:CB	4:W:143:TYR:HE1	2.13	0.62
1:J:557:GLU:HG3	1:J:557:GLU:O	2.00	0.62
1:M:636:LYS:N	4:Z:334:GLU:OE1	2.31	0.62
1:S:161:ASN:HA	1:S:164:GLN:HE21	1.64	0.62
1:S:278:GLN:HG3	1:S:318:GLY:N	2.15	0.62
1:S:302:MET:HG2	1:S:303:LEU:CD1	2.30	0.62
1:S:542:PHE:N	4:2:143:TYR:OH	2.33	0.62
1:A:173:GLN:C	1:A:667:THR:HG23	2.25	0.61
1:A:520:ALA:O	1:A:524:GLU:HG2	2.00	0.61
1:A:817:GLN:HE21	2:B:127:ARG:HG2	0.65	0.61
1:D:173:GLN:C	1:D:667:THR:HG23	2.25	0.61
1:D:274:ARG:HB2	1:D:285:TYR:CE2	2.34	0.61
1:D:553:MLY:O	4:W:48:GLY:HA2	1.99	0.61
1:D:578:HIS:CB	1:D:592:ILE:HD12	2.30	0.61
1:D:724:TYR:CG	1:D:782:MLY:CD	2.83	0.61
1:D:798:LEU:HD21	3:F:122:GLU:HB3	1.82	0.61
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.61
1:G:173:GLN:C	1:G:667:THR:HG23	2.25	0.61
1:G:542:PHE:CZ	1:G:553:MLY:HH11	2.34	0.61
1:G:578:HIS:CB	1:G:592:ILE:HD12	2.30	0.61
1:G:579:PHE:CE1	1:G:581:LEU:HD13	2.35	0.61
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	0.61
1:G:643:GLY:O	1:G:644:SER:CB	2.48	0.61
1:G:732:ILE:HG21	1:G:747:LEU:HD11	0.72	0.61
3:L:52:ASN:N	3:L:53:PRO:HD2	2.15	0.61
1:M:98:HIS:HB3	1:M:100:PRO:CD	2.25	0.61
1:M:278:GLN:HG3	1:M:318:GLY:N	2.15	0.61
1:M:411:GLU:N	4:Z:333:PRO:HB2	2.11	0.61
1:M:542:PHE:N	4:Z:143:TYR:OH	2.33	0.61
1:M:578:HIS:CD2	1:M:591:ASN:HA	2.31	0.61
1:S:274:ARG:HB2	1:S:285:TYR:CE2	2.34	0.61
1:S:505:MLY:CH2	1:S:762:HIS:NE2	2.63	0.61
1:S:795:ARG:C	3:U:35:ARG:NH2	2.58	0.61
4:2:257:CYS:HB3	4:2:258:PRO:HD3	1.81	0.61
4:Y:361:GLU:HB3	4:Y:369:ILE:HG12	1.82	0.61
3:C:49:ILE:HA	3:C:52:ASN:ND2	2.05	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:506:GLU:OE2	1:D:764:MLY:HE3	1.99	0.61
1:D:520:ALA:O	1:D:524:GLU:HG2	2.00	0.61
2:E:111:SER:OG	2:E:148:VAL:CG1	2.48	0.61
2:E:144:VAL:HA	2:E:153:ILE:HD11	1.80	0.61
1:G:542:PHE:N	4:V:143:TYR:OH	2.33	0.61
2:K:111:SER:OG	2:K:148:VAL:CG1	2.48	0.61
3:L:50:LEU:O	3:L:53:PRO:HD2	2.00	0.61
1:M:274:ARG:HB2	1:M:285:TYR:CE2	2.34	0.61
2:N:121:LEU:HA	2:N:128:PHE:CG	2.34	0.61
1:S:805:ALA:O	1:S:807:VAL:C	2.43	0.61
1:S:838:ILE:HD13	2:T:54:MET:HE3	1.76	0.61
4:3:361:GLU:HB3	4:3:369:ILE:HG12	1.82	0.61
4:4:361:GLU:HB3	4:4:369:ILE:HG12	1.82	0.61
1:A:127:ASN:HD22	1:A:128:PRO:CD	2.11	0.61
1:D:302:MET:HG2	1:D:303:LEU:CD1	2.30	0.61
1:D:506:GLU:O	1:D:762:HIS:HB2	2.00	0.61
1:D:538:GLU:CG	4:9:351:THR:C	2.74	0.61
1:G:530:MET:HE1	4:V:355:MET:SD	2.41	0.61
1:G:791:GLN:NE2	3:I:115:GLY:C	2.56	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:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:M:141:LEU:H	1:M:141:LEU:HD12	1.64	0.61
1:S:215:GLN:CA	1:S:340:ILE:CG2	2.63	0.61
1:S:411:GLU:N	4:2:333:PRO:HB2	2.11	0.61
1:S:543:PRO:HG2	4:2:143:TYR:O	1.98	0.61
1:S:623:PHE:CG	1:S:623:PHE:HA	2.35	0.61
1:A:579:PHE:CE1	1:A:581:LEU:HD13	2.35	0.61
3:C:50:LEU:O	3:C:53:PRO:HD2	2.00	0.61
3:C:52:ASN:N	3:C:53:PRO:HD2	2.15	0.61
1:D:557:GLU:HG3	1:D:557:GLU:O	2.00	0.61
1:D:732:ILE:HD11	1:D:782:MLY:HH11	1.79	0.61
2:E:117:LEU:HD11	2:E:147:ASN:HB3	1.76	0.61
3:F:24:LYS:HB3	3:F:63:ILE:H	1.64	0.61
3:F:63:ILE:HG22	3:F:64:THR:O	2.01	0.61
1:G:724:TYR:HD1	1:G:727:LEU:HD11	1.64	0.61
3:I:24:LYS:HB3	3:I:63:ILE:H	1.64	0.61
1:J:84:MLY:N	1:J:723:ARG:CZ	2.64	0.61
1:J:557:GLU:HB2	4:Y:47:MET:N	2.11	0.61
1:J:649:VAL:HA	1:J:649:VAL:HG22	1.80	0.61
3:L:24:LYS:HB3	3:L:63:ILE:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:190:MET:HE1	4:9:206:ARG:HA	1.83	0.61
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.61
2:B:111:SER:OG	2:B:148:VAL:CG1	2.47	0.61
1:D:81:ASN:OD1	1:D:96:HIS:HB2	2.00	0.61
1:D:712:PRO:CB	1:D:771:LEU:HD22	2.19	0.61
1:G:278:GLN:HG3	1:G:318:GLY:N	2.15	0.61
1:G:752:ASP:OD1	1:G:783:LEU:CA	2.48	0.61
1:J:84:MLY:HH12	1:J:715:VAL:HG21	1.82	0.61
1:J:530:MET:CG	4:W:354:GLN:HG3	2.31	0.61
1:J:530:MET:HE1	4:W:355:MET:SD	2.40	0.61
1:M:520:ALA:O	1:M:524:GLU:HG2	2.00	0.61
1:M:643:GLY:O	1:M:644:SER:CB	2.49	0.61
1:M:817:GLN:HG2	2:N:127:ARG:CG	2.30	0.61
1:S:542:PHE:CZ	1:S:553:MLY:HH11	2.34	0.61
1:S:642:LYS:CA	4:2:22:ALA:C	2.70	0.61
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	0.61
4:Z:190:MET:HE1	4:Z:206:ARG:HA	1.83	0.61
1:A:107:MLY:HB3	1:A:686:MET:CE	2.27	0.61
1:A:686:MET:HG3	1:A:691:VAL:HG21	1.83	0.61
1:D:580:SER:HA	1:D:588:VAL:O	2.00	0.61
1:D:599:ASN:CG	1:D:649:VAL:HB	2.25	0.61
3:F:52:ASN:N	3:F:53:PRO:HD2	2.16	0.61
1:G:81:ASN:OD1	1:G:96:HIS:HB2	2.00	0.61
1:G:686:MET:HG3	1:G:691:VAL:HG21	1.83	0.61
1:J:81:ASN:OD1	1:J:96:HIS:HB2	2.00	0.61
1:J:524:GLU:O	1:J:528:MLY:HB3	2.01	0.61
1:J:542:PHE:N	4:W:143:TYR:OH	2.33	0.61
1:J:686:MET:HG3	1:J:691:VAL:HG21	1.83	0.61
2:K:114:LYS:HG3	2:K:146:GLY:HA2	1.82	0.61
1:M:84:MLY:HH22	1:M:719:ASP:O	2.01	0.61
1:M:524:GLU:O	1:M:528:MLY:HB3	2.01	0.61
1:M:578:HIS:CB	1:M:592:ILE:HD12	2.30	0.61
1:M:642:LYS:CA	4:Z:22:ALA:C	2.70	0.61
1:M:818:TYR:CG	2:N:127:ARG:NH1	2.68	0.61
1:S:173:GLN:C	1:S:667:THR:HG23	2.25	0.61
1:S:578:HIS:CB	1:S:592:ILE:HD12	2.30	0.61
1:S:793:ARG:NE	3:U:40:ASN:HD22	1.96	0.61
1:S:795:ARG:CZ	3:U:43:ASN:OD1	2.47	0.61
1:S:826:VAL:HG21	2:T:88:LEU:HD23	1.82	0.61
4:8:361:GLU:HB3	4:8:369:ILE:HG12	1.82	0.61
4:V:190:MET:HE1	4:V:206:ARG:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.61
1:A:149:GLN:HB3	1:A:718:ALA:C	2.25	0.61
1:A:530:MET:HE1	4:8:355:MET:SD	2.39	0.61
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.61
1:G:553:MLY:HB2	4:X:46:GLY:HA3	1.83	0.61
1:J:154:HIS:CE1	1:J:156:PHE:CD2	2.88	0.61
1:J:724:TYR:HD1	1:J:727:LEU:HD11	1.64	0.61
1:M:173:GLN:C	1:M:667:THR:HG23	2.25	0.61
1:M:623:PHE:CG	1:M:623:PHE:HA	2.35	0.61
2:N:34:ILE:O	2:N:46:ASP:HB3	2.01	0.61
1:S:639:GLY:N	4:2:344:SER:C	2.54	0.61
1:S:724:TYR:HD1	1:S:727:LEU:HD11	1.64	0.61
4:2:361:GLU:HB3	4:2:369:ILE:HG12	1.82	0.61
4:6:190:MET:HE1	4:6:206:ARG:HA	1.83	0.61
4:6:361:GLU:HB3	4:6:369:ILE:HG12	1.82	0.61
4:X:190:MET:HE1	4:X:206:ARG:HA	1.83	0.61
1:A:502:GLU:HA	1:A:762:HIS:H	1.64	0.61
2:B:114:LYS:HG3	2:B:146:GLY:HA2	1.82	0.61
1:D:524:GLU:O	1:D:528:MLY:HB3	2.01	0.61
1:D:542:PHE:N	4:9:143:TYR:OH	2.33	0.61
1:D:831:TRP:CZ2	2:E:47:LEU:HD23	2.35	0.61
1:G:99:GLU:OE2	1:G:696:ARG:NH2	2.30	0.61
1:G:639:GLY:N	4:V:344:SER:C	2.54	0.61
1:G:829:TRP:CE3	2:H:87:LYS:NZ	2.67	0.61
3:I:63:ILE:HG22	3:I:64:THR:O	2.01	0.61
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.61
1:J:643:GLY:O	1:J:644:SER:CB	2.48	0.61
1:S:751:GLY:O	3:U:89:GLU:OE2	2.19	0.61
4:7:190:MET:HE1	4:7:206:ARG:HA	1.83	0.61
4:V:286:ASP:OD2	4:X:203:THR:CG2	2.47	0.61
1:A:643:GLY:O	1:A:644:SER:CB	2.48	0.61
2:B:34:ILE:O	2:B:46:ASP:HB3	2.01	0.61
1:D:623:PHE:CG	1:D:623:PHE:HA	2.36	0.61
1:D:724:TYR:HB3	1:D:782:MLY:CE	2.29	0.61
1:D:814:PHE:CE1	2:E:127:ARG:NH2	2.69	0.61
3:F:50:LEU:O	3:F:53:PRO:HD2	2.00	0.61
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.61
1:J:813:ILE:O	1:J:817:GLN:N	2.30	0.61
1:M:686:MET:HG3	1:M:691:VAL:HG21	1.83	0.61
3:O:50:LEU:O	3:O:53:PRO:HD2	2.00	0.61
1:S:524:GLU:O	1:S:528:MLY:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:795:ARG:HB3	3:U:35:ARG:CZ	2.30	0.61
4:4:190:MET:HE1	4:4:206:ARG:HA	1.83	0.61
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.61
3:C:3:SER:HG	3:C:5:ALA:N	1.98	0.61
1:J:38:VAL:HB	1:J:52:ILE:HD11	1.83	0.61
1:J:520:ALA:O	1:J:524:GLU:HG2	2.00	0.61
3:L:63:ILE:HG22	3:L:64:THR:O	2.01	0.61
1:M:99:GLU:OE2	1:M:696:ARG:NH2	2.31	0.61
1:M:579:PHE:CE1	1:M:581:LEU:HD13	2.35	0.61
1:S:520:ALA:O	1:S:524:GLU:HG2	2.00	0.61
1:S:579:PHE:CE1	1:S:581:LEU:HD13	2.35	0.61
1:S:686:MET:HG3	1:S:691:VAL:HG21	1.83	0.61
1:S:797:PHE:CZ	3:U:146:ILE:CA	2.80	0.61
4:1:190:MET:HE1	4:1:206:ARG:HA	1.83	0.61
4:2:190:MET:HE1	4:2:206:ARG:HA	1.83	0.61
4:3:190:MET:HE1	4:3:206:ARG:HA	1.83	0.61
4:8:190:MET:HE1	4:8:206:ARG:HA	1.83	0.61
4:W:190:MET:HE1	4:W:206:ARG:HA	1.83	0.61
1:A:40:VAL:HG22	1:A:41:VAL:N	2.16	0.60
1:A:161:ASN:HA	1:A:164:GLN:HE21	1.63	0.60
1:A:623:PHE:CG	1:A:623:PHE:HA	2.36	0.60
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.60
1:D:154:HIS:CE1	1:D:156:PHE:CD2	2.88	0.60
1:D:508:ILE:HD13	1:D:766:PHE:CE2	2.30	0.60
1:G:506:GLU:OE2	1:G:760:PHE:HB2	2.01	0.60
1:G:543:PRO:HG2	4:V:143:TYR:O	1.99	0.60
1:G:578:HIS:CD2	1:G:591:ASN:HA	2.31	0.60
1:G:734:GLU:OE2	3:I:109:HIS:CE1	2.54	0.60
1:J:274:ARG:HB2	1:J:285:TYR:CE2	2.34	0.60
1:J:769:ALA:CB	1:J:770:GLY:HA3	2.31	0.60
1:J:839:MLY:HD2	2:K:159:HIS:HB3	1.83	0.60
1:M:786:ILE:N	1:M:787:ILE:N	2.48	0.60
1:M:795:ARG:HE	3:O:118:MET:CE	2.14	0.60
1:S:538:GLU:HA	4:2:349:LEU:CG	2.28	0.60
4:W:223:PHE:HD2	4:W:312:ARG:NH2	1.99	0.60
1:A:81:ASN:OD1	1:A:96:HIS:HB2	2.00	0.60
1:A:542:PHE:CB	4:8:143:TYR:HE1	2.12	0.60
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.60
3:C:63:ILE:HG22	3:C:64:THR:O	2.01	0.60
1:G:538:GLU:CG	4:V:351:THR:C	2.73	0.60
1:G:541:MET:SD	4:V:346:LEU:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:278:GLN:CG	1:J:317:GLU:HB2	2.27	0.60
1:J:541:MET:SD	4:W:346:LEU:O	2.48	0.60
2:K:34:ILE:O	2:K:46:ASP:HB3	2.01	0.60
1:M:720:PHE:CZ	1:M:772:LEU:HD11	2.36	0.60
3:O:63:ILE:HG22	3:O:64:THR:O	2.01	0.60
4:5:361:GLU:HB3	4:5:369:ILE:HG12	1.82	0.60
4:6:223:PHE:HD2	4:6:312:ARG:NH2	1.99	0.60
4:8:223:PHE:HD2	4:8:312:ARG:NH2	1.99	0.60
4:9:361:GLU:HB3	4:9:369:ILE:HG12	1.82	0.60
4:Y:190:MET:HE1	4:Y:206:ARG:HA	1.83	0.60
4:Z:223:PHE:HD2	4:Z:312:ARG:NH2	1.99	0.60
1:A:156:PHE:CD1	1:A:195:TYR:CD1	2.89	0.60
1:D:210:GLN:O	1:D:211:SER:OG	2.15	0.60
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.60
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.64	0.60
1:G:640:LYS:C	1:G:645:SER:OG	2.44	0.60
1:G:757:GLN:CB	1:G:776:GLU:HG3	2.29	0.60
1:G:834:LEU:HD12	2:H:51:PHE:HE1	1.60	0.60
1:J:710:GLY:HA2	1:J:772:LEU:HD22	1.03	0.60
1:J:732:ILE:HG22	1:J:747:LEU:CD1	1.55	0.60
1:M:124:VAL:CG1	1:M:675:ILE:HD13	2.31	0.60
1:M:542:PHE:CB	4:Z:143:TYR:HE1	2.13	0.60
1:M:798:LEU:CD2	3:O:126:LEU:CD1	2.76	0.60
1:S:751:GLY:CA	1:S:779:ARG:HH22	2.14	0.60
3:U:63:ILE:HG22	3:U:64:THR:O	2.01	0.60
4:5:190:MET:HE1	4:5:206:ARG:HA	1.83	0.60
4:V:223:PHE:HD2	4:V:312:ARG:NH2	1.99	0.60
1:A:38:VAL:HB	1:A:52:ILE:HD11	1.84	0.60
1:A:149:GLN:CG	1:A:719:ASP:H	2.14	0.60
1:A:530:MET:CG	4:8:354:GLN:HG3	2.30	0.60
1:A:546:THR:HG22	1:A:547:ASP:N	2.17	0.60
1:A:553:MLY:NZ	4:V:45:VAL:HG13	2.16	0.60
1:A:732:ILE:HG22	1:A:747:LEU:CD1	1.55	0.60
1:D:530:MET:HA	4:9:354:GLN:CB	2.29	0.60
1:D:795:ARG:NE	3:F:116:GLU:HB3	2.16	0.60
1:D:813:ILE:O	1:D:817:GLN:N	2.30	0.60
1:G:524:GLU:O	1:G:528:MLY:HB3	2.01	0.60
2:H:114:LYS:HG3	2:H:146:GLY:HA2	1.82	0.60
3:I:50:LEU:O	3:I:53:PRO:HD2	2.00	0.60
1:J:640:LYS:C	1:J:645:SER:OG	2.44	0.60
1:S:84:MLY:CH2	1:S:719:ASP:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:599:ASN:CB	1:S:649:VAL:HB	2.32	0.60
1:S:834:LEU:CD1	2:T:51:PHE:CD1	2.82	0.60
2:T:114:LYS:HG3	2:T:146:GLY:HA2	1.82	0.60
4:1:203:THR:CG2	4:Y:286:ASP:OD2	2.47	0.60
4:7:361:GLU:HB3	4:7:369:ILE:HG12	1.82	0.60
1:A:502:GLU:HG3	1:A:760:PHE:C	2.25	0.60
1:D:124:VAL:HG13	1:D:675:ILE:HD13	1.84	0.60
1:D:579:PHE:CE1	1:D:581:LEU:HD13	2.35	0.60
1:D:640:LYS:C	1:D:645:SER:OG	2.44	0.60
1:D:798:LEU:HD11	3:F:126:LEU:CD2	2.31	0.60
1:G:40:VAL:HG22	1:G:41:VAL:N	2.16	0.60
1:G:156:PHE:CD1	1:G:195:TYR:CD1	2.90	0.60
1:G:530:MET:CG	4:V:354:GLN:HG3	2.30	0.60
1:G:546:THR:HG22	1:G:547:ASP:N	2.17	0.60
1:G:623:PHE:CG	1:G:623:PHE:HA	2.36	0.60
1:G:837:MLY:O	1:G:840:PRO:HD2	2.02	0.60
2:H:34:ILE:O	2:H:46:ASP:HB3	2.01	0.60
1:J:757:GLN:NE2	1:J:777:GLU:H	1.93	0.60
1:J:821:ARG:HH22	2:K:127:ARG:HG2	1.60	0.60
2:K:130:PRO:HA	2:K:133:ILE:HD12	1.83	0.60
1:M:40:VAL:HG22	1:M:41:VAL:N	2.16	0.60
1:M:599:ASN:CB	1:M:649:VAL:HB	2.32	0.60
1:M:753:VAL:CG1	1:M:775:LEU:CD1	2.75	0.60
1:S:546:THR:HG21	4:4:47:MET:C	2.27	0.60
1:S:640:LYS:C	1:S:645:SER:OG	2.44	0.60
1:S:643:GLY:O	1:S:644:SER:CB	2.49	0.60
4:7:287:ILE:HD12	4:7:287:ILE:H	1.67	0.60
4:9:223:PHE:HD2	4:9:312:ARG:NH2	1.99	0.60
4:W:361:GLU:HB3	4:W:369:ILE:HG12	1.82	0.60
4:X:223:PHE:HD2	4:X:312:ARG:NH2	1.99	0.60
4:Y:223:PHE:HD2	4:Y: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:643:GLY:O	1:D:644:SER:CB	2.48	0.60
1:D:800:ARG:CG	3:F:149:VAL:HG22	2.31	0.60
1:G:550:PHE:CE2	1:G:592:ILE:HG23	2.37	0.60
1:G:599:ASN:CB	1:G:649:VAL:HB	2.32	0.60
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.60
1:G:768:MLY:HH23	1:G:772:LEU:HD11	1.60	0.60
1:J:95:THR:HG23	1:J:96:HIS:ND1	2.17	0.60
1:J:530:MET:HA	4:W:354:GLN:CD	2.11	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:579:PHE:CE1	1:J:581:LEU:HD13	2.35	0.60
3:L:52:ASN:HB2	3:L:53:PRO:CD	2.28	0.60
2:N:130:PRO:HA	2:N:133:ILE:HD12	1.84	0.60
1:S:40:VAL:HG22	1:S:41:VAL:N	2.16	0.60
1:S:95:THR:HG23	1:S:96:HIS:ND1	2.17	0.60
1:S:124:VAL:CG1	1:S:675:ILE:HD13	2.32	0.60
1:S:156:PHE:CD1	1:S:195:TYR:CD1	2.90	0.60
1:S:530:MET:CG	4:2:354:GLN:HG3	2.30	0.60
2:T:34:ILE:O	2:T:46:ASP:HB3	2.01	0.60
4:1:287:ILE:H	4:1:287:ILE:HD12	1.67	0.60
4:9:287:ILE:H	4:9:287:ILE:HD12	1.67	0.60
1:D:95:THR:HG23	1:D:96:HIS:ND1	2.17	0.60
1:D:831:TRP:HZ3	2:E:34:ILE:HG12	1.65	0.60
1:D:836:PHE:CZ	2:E:159:HIS:HA	2.37	0.60
1:D:837:MLY:O	1:D:840:PRO:HD2	2.02	0.60
1:G:124:VAL:CG1	1:G:675:ILE:HD13	2.31	0.60
1:G:542:PHE:CB	4:V:143:TYR:HE1	2.13	0.60
1:G:817:GLN:HG2	2:H:127:ARG:HB3	1.80	0.60
1:J:411:GLU:N	4:W:333:PRO:HB2	2.11	0.60
1:M:81:ASN:OD1	1:M:96:HIS:HB2	2.00	0.60
1:M:95:THR:OG1	1:M:713:SER:OG	2.20	0.60
1:M:553:MLY:NZ	4:2:45:VAL:HG13	2.17	0.60
1:S:38:VAL:HB	1:S:52:ILE:HD11	1.83	0.60
1:S:60:VAL:O	1:S:71:THR:HA	2.02	0.60
1:S:81:ASN:OD1	1:S:96:HIS:HB2	2.00	0.60
1:S:210:GLN:O	1:S:211:SER:OG	2.15	0.60
4:2:223:PHE:HD2	4:2:312:ARG:NH2	1.99	0.60
4:2:287:ILE:H	4:2:287:ILE:HD12	1.67	0.60
4:4:223:PHE:HD2	4:4:312:ARG:NH2	1.99	0.60
1:A:578:HIS:CD2	1:A:591:ASN:HA	2.31	0.60
1:A:831:TRP:CZ3	2:B:34:ILE:CG2	2.84	0.60
1:D:124:VAL:CG1	1:D:675:ILE:HD13	2.31	0.60
1:D:278:GLN:CG	1:D:317:GLU:HB2	2.27	0.60
1:D:411:GLU:N	4:9:333:PRO:HB2	2.11	0.60
1:D:783:LEU:O	1:D:787:ILE:N	2.28	0.60
1:G:38:VAL:HB	1:G:52:ILE:HD11	1.84	0.60
1:G:643:GLY:N	4:V:23:GLY:C	2.55	0.60
1:G:736:GLN:HA	1:G:743:ALA:HB1	1.27	0.60
1:G:816:ILE:HD11	2:H:100:ALA:HB1	1.83	0.60
1:J:84:MLY:HH11	1:J:720:PHE:HD1	0.80	0.60
1:J:124:VAL:HG13	1:J:675:ILE:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:127:ASN:ND2	1:J:128:PRO:HD2	2.16	0.60
1:J:546:THR:HG22	1:J:547:ASP:N	2.17	0.60
1:J:599:ASN:CB	1:J:649:VAL:HB	2.32	0.60
1:J:756:THR:CG2	1:J:779:ARG:HB3	2.31	0.60
1:M:156:PHE:CD1	1:M:195:TYR:CD1	2.90	0.60
1:M:640:LYS:C	1:M:645:SER:OG	2.44	0.60
1:S:550:PHE:CE2	1:S:592:ILE:HG23	2.37	0.60
2:T:130:PRO:HA	2:T:133:ILE:HD12	1.83	0.60
1:A:60:VAL:O	1:A:71:THR:HA	2.02	0.60
1:A:124:VAL:CG1	1:A:675:ILE:HD13	2.31	0.60
1:A:599:ASN:CB	1:A:649:VAL:HB	2.32	0.60
1:A:817:GLN:NE2	2:B:127:ARG:NE	2.47	0.60
1:D:599:ASN:CB	1:D:649:VAL:HB	2.32	0.60
1:J:124:VAL:CG1	1:J:675:ILE:HD13	2.31	0.60
1:J:210:GLN:O	1:J:211:SER:OG	2.15	0.60
1:M:38:VAL:HB	1:M:52:ILE:HD11	1.83	0.60
1:M:530:MET:CG	4:Z:354:GLN:HG3	2.30	0.60
1:S:542:PHE:CB	4:2:143:TYR:HE1	2.13	0.60
1:S:839:MLY:HD2	2:T:159:HIS:CB	2.31	0.60
4:W:286:ASP:OD2	4:Y:203:THR:CG2	2.47	0.60
1:A:40:VAL:HG22	1:A:41:VAL:H	1.67	0.60
3:F:52:ASN:N	3:F:53:PRO:CD	2.65	0.60
1:G:95:THR:HG23	1:G:96:HIS:ND1	2.17	0.60
3:I:3:SER:HG	3:I:5:ALA:N	1.99	0.60
1:J:84:MLY:HD2	1:J:724:TYR:CZ	2.33	0.60
1:S:769:ALA:O	1:S:773:GLY:N	2.17	0.60
4:V:286:ASP:OD1	4:X:202:THR:HB	2.02	0.60
1:A:538:GLU:CG	4:8:351:THR:C	2.74	0.59
1:A:791:GLN:NE2	3:C:115:GLY:HA3	2.16	0.59
1:A:806:MET:HE1	3:C:17:PHE:CE2	2.37	0.59
1:D:49:MLY:HH13	1:D:108:GLU:OE2	2.02	0.59
1:D:506:GLU:O	1:D:762:HIS:CB	2.49	0.59
1:D:836:PHE:CE1	2:E:159:HIS:C	2.79	0.59
1:J:40:VAL:HG22	1:J:41:VAL:N	2.16	0.59
1:J:536:LEU:HD13	1:J:550:PHE:CE1	2.37	0.59
1:J:576:GLU:CG	1:J:577:ALA:N	2.44	0.59
1:J:623:PHE:CG	1:J:623:PHE:HA	2.35	0.59
1:J:755:HIS:HA	1:J:758:TYR:HE1	1.64	0.59
1:M:60:VAL:O	1:M:71:THR:HA	2.02	0.59
1:M:95:THR:HG23	1:M:96:HIS:ND1	2.17	0.59
1:M:538:GLU:HA	4:Z:349:LEU:CG	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:817:GLN:CD	2:N:127:ARG:CD	2.69	0.59
2:N:112:ILE:C	2:N:147:ASN:O	2.42	0.59
1:S:135:TYR:N	1:S:135:TYR:CD1	2.70	0.59
1:S:642:LYS:HG2	4:2:22:ALA:C	2.27	0.59
3:U:52:ASN:N	3:U:53:PRO:CD	2.65	0.59
4:3:287:ILE:H	4:3:287:ILE:HD12	1.67	0.59
4:Z:287:ILE:HD12	4:Z:287:ILE:H	1.67	0.59
1:A:776:GLU:O	1:A:779:ARG:HB3	2.02	0.59
1:A:799:MET:SD	3:C:32:ASP:O	2.60	0.59
1:D:85:TYR:HH	1:D:772:LEU:CD2	1.75	0.59
1:D:578:HIS:CD2	1:D:591:ASN:HA	2.32	0.59
1:J:787:ILE:O	1:J:790:THR:N	2.35	0.59
1:J:800:ARG:HD2	3:L:149:VAL:HG13	1.84	0.59
1:J:836:PHE:CE2	2:K:160:GLY:CA	2.85	0.59
1:M:795:ARG:HH22	3:O:116:GLU:CG	2.15	0.59
1:S:94:MET:O	1:S:713:SER:HA	2.02	0.59
1:S:837:MLY:O	1:S:840:PRO:HD2	2.02	0.59
4:1:202:THR:HB	4:Y:286:ASP:OD1	2.02	0.59
1:A:95:THR:HG23	1:A:96:HIS:ND1	2.16	0.59
1:A:629:GLU:CB	1:A:643:GLY:C	2.75	0.59
1:A:752:ASP:O	1:A:778:MET:CB	2.51	0.59
1:D:40:VAL:HG22	1:D:41:VAL:N	2.16	0.59
1:G:60:VAL:O	1:G:71:THR:HA	2.02	0.59
1:G:411:GLU:N	4:V:333:PRO:HB2	2.11	0.59
1:G:536:LEU:HD13	1:G:550:PHE:CE1	2.37	0.59
1:G:776:GLU:O	1:G:779:ARG:HB3	2.03	0.59
1:J:156:PHE:CD1	1:J:195:TYR:CD1	2.90	0.59
1:J:550:PHE:CE2	1:J:592:ILE:HG23	2.37	0.59
1:J:721:LYS:C	1:J:736:GLN:OE1	2.46	0.59
1:J:784:ALA:O	1:J:788:THR:HB	2.02	0.59
1:M:546:THR:HG22	1:M:547:ASP:N	2.17	0.59
1:S:93:MET:CG	1:S:715:VAL:CA	2.80	0.59
4:1:223:PHE:HD2	4:1:312:ARG:NH2	1.99	0.59
1:D:166:MET:HE2	1:D:457:TYR:HB2	1.84	0.59
1:D:798:LEU:CD2	3:F:122:GLU:HB3	2.33	0.59
1:D:838:ILE:CD1	2:E:54:MET:CE	2.79	0.59
2:E:130:PRO:HA	2:E:133:ILE:HD12	1.84	0.59
1:G:94:MET:O	1:G:713:SER:HB3	2.02	0.59
1:G:116:TYR:HB2	1:G:153:PRO:O	2.03	0.59
1:G:629:GLU:CB	1:G:643:GLY:C	2.76	0.59
1:J:60:VAL:O	1:J:71:THR:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.84	0.59
1:M:538:GLU:CG	4:Z:351:THR:C	2.73	0.59
1:M:642:LYS:HG2	4:Z:22:ALA:C	2.27	0.59
2:N:114:LYS:HG3	2:N:146:GLY:HA2	1.82	0.59
1:S:538:GLU:CG	4:2:351:THR:C	2.73	0.59
1:S:721:LYS:C	1:S:736:GLN:OE1	2.46	0.59
1:S:755:HIS:HA	1:S:758:TYR:HE1	1.64	0.59
1:S:787:ILE:O	1:S:790:THR:N	2.35	0.59
3:U:102:VAL:HG11	3:U:107:LEU:HB2	1.85	0.59
4:8:287:ILE:H	4:8:287:ILE:HD12	1.67	0.59
1:A:195:TYR:O	1:A:199:ILE:HG23	2.03	0.59
1:A:210:GLN:O	1:A:211:SER:OG	2.15	0.59
1:A:411:GLU:N	4:8:333:PRO:HB2	2.11	0.59
1:A:817:GLN:CG	2:B:127:ARG:HG2	2.33	0.59
1:D:542:PHE:CD1	4:9:143:TYR:CE1	2.90	0.59
1:D:553:MLY:NZ	4:W:45:VAL:HG13	2.17	0.59
1:G:94:MET:C	1:G:713:SER:HB3	2.27	0.59
1:J:135:TYR:N	1:J:135:TYR:CD1	2.69	0.59
1:J:791:GLN:HE22	3:L:115:GLY:CA	2.13	0.59
3:L:3:SER:HG	3:L:5:ALA:N	1.99	0.59
3:L:52:ASN:N	3:L:53:PRO:CD	2.65	0.59
1:M:116:TYR:HB2	1:M:153:PRO:O	2.03	0.59
1:M:541:MET:SD	4:Z:346:LEU:O	2.48	0.59
1:M:542:PHE:CD1	4:Z:143:TYR:CE1	2.90	0.59
3:O:102:VAL:HG11	3:O:107:LEU:HB2	1.85	0.59
1:S:124:VAL:HG13	1:S:675:ILE:HD13	1.84	0.59
1:S:536:LEU:HD13	1:S:550:PHE:CE1	2.37	0.59
1:A:230:GLU:O	1:A:234:ASN:HB2	2.03	0.59
1:A:649:VAL:HG22	1:A:649:VAL:HA	1.80	0.59
1:A:831:TRP:CE2	2:B:51:PHE:CE2	2.89	0.59
1:A:839:MLY:HH11	2:B:159:HIS:CD2	2.14	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:202:SER:HA	1:D:207:LYS:HE3	1.72	0.59
1:D:265:ILE:HG22	1:D:266:GLU:N	2.18	0.59
1:D:629:GLU:CB	1:D:643:GLY:C	2.75	0.59
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.59
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.33	0.59
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.59
1:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:793:ARG:NH1	3:L:40:ASN:ND2	2.50	0.59
1:M:94:MET:O	1:M:713:SER:HA	2.03	0.59
1:M:95:THR:OG1	1:M:770:GLY:HA2	2.03	0.59
1:M:124:VAL:HG13	1:M:675:ILE:HD13	1.84	0.59
1:M:135:TYR:N	1:M:135:TYR:CD1	2.70	0.59
1:M:836:PHE:CZ	2:N:160:GLY:H	1.59	0.59
1:S:49:MLY:HH13	1:S:108:GLU:OE2	2.02	0.59
1:S:817:GLN:CB	2:T:127:ARG:NH1	2.41	0.59
4:7:223:PHE:HD2	4:7:312:ARG:NH2	1.99	0.59
4:W:286:ASP:OD1	4:Y:202:THR:HB	2.02	0.59
1:A:536:LEU:HD13	1:A:550:PHE:CE1	2.37	0.59
1:A:542:PHE:CD1	4:8:143:TYR:CE1	2.90	0.59
1:A:800:ARG:CG	3:C:149:VAL:HG22	2.33	0.59
1:D:546:THR:HG22	1:D:547:ASP:N	2.17	0.59
1:G:230:GLU:O	1:G:234:ASN:HB2	2.03	0.59
1:G:549:SER:OG	1:G:550:PHE:N	2.36	0.59
1:J:505:MLY:HG3	1:J:762:HIS:HE1	1.66	0.59
1:J:757:GLN:CD	1:J:777:GLU:N	2.60	0.59
1:J:776:GLU:O	1:J:779:ARG:HB3	2.02	0.59
1:J:832:MET:SD	2:K:84:PHE:HE2	2.26	0.59
1:M:230:GLU:O	1:M:234:ASN:HB2	2.03	0.59
1:M:813:ILE:O	1:M:817:GLN:N	2.30	0.59
1:S:542:PHE:CD1	4:2:143:TYR:CE1	2.91	0.59
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.59
1:A:831:TRP:CZ2	2:B:47:LEU:HD23	2.37	0.59
1:D:543:PRO:HG2	4:9:143:TYR:O	1.98	0.59
1:D:797:PHE:CE1	3:F:146:ILE:CG2	2.72	0.59
1:D:822:SER:OG	2:E:88:LEU:HD23	2.02	0.59
1:D:831:TRP:NE1	2:E:67:MET:SD	2.71	0.59
1:G:124:VAL:HG13	1:G:675:ILE:CD1	2.33	0.59
1:G:124:VAL:HG13	1:G:675:ILE:HD13	1.84	0.59
1:G:538:GLU:HA	4:V:349:LEU:CG	2.28	0.59
1:G:787:ILE:O	1:G:790:THR:N	2.35	0.59
1:J:166:MET:HE2	1:J:457:TYR:HB2	1.84	0.59
1:M:536:LEU:HD13	1:M:550:PHE:CE1	2.37	0.59
1:M:787:ILE:O	1:M:790:THR:N	2.35	0.59
3:O:52:ASN:N	3:O:53:PRO:HD2	2.15	0.59
1:S:557:GLU:O	1:S:557:GLU:HG3	2.00	0.59
1:S:629:GLU:CB	1:S:643:GLY:C	2.76	0.59
1:S:798:LEU:HD23	3:U:122:GLU:HB3	1.84	0.59
4:X:287:ILE:O	4:Z:205:GLU:OE1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:536:LEU:HD13	1:D:550:PHE:CE1	2.37	0.59
1:D:549:SER:OG	1:D:550:PHE:N	2.36	0.59
1:D:676:ILE:HG23	1:D:676:ILE:O	2.03	0.59
1:D:727:LEU:HD13	1:D:782:MLY:CH1	2.26	0.59
1:G:48:VAL:HG22	1:G:49:MLY:N	2.18	0.59
1:G:135:TYR:N	1:G:135:TYR:CD1	2.70	0.59
1:G:649:VAL:HG22	1:G:649:VAL:HA	1.80	0.59
2:H:130:PRO:HA	2:H:133:ILE:HD12	1.84	0.59
1:J:49:MLY:HH13	1:J:108:GLU:OE2	2.02	0.59
1:J:629:GLU:CB	1:J:643:GLY:C	2.76	0.59
1:J:715:VAL:HG11	1:J:720:PHE:HD1	1.68	0.59
1:J:791:GLN:NE2	3:L:116:GLU:H	2.01	0.59
1:M:819:ASN:CB	2:N:90:GLY:O	2.50	0.59
1:M:837:MLY:O	1:M:840:PRO:HD2	2.02	0.59
3:O:52:ASN:N	3:O:53:PRO:CD	2.65	0.59
1:S:116:TYR:HB2	1:S:153:PRO:O	2.03	0.59
1:S:776:GLU:O	1:S:779:ARG:HB3	2.03	0.59
3:U:127:MET:HE2	3:U:137:ILE:HD13	1.85	0.59
1:A:116:TYR:HB2	1:A:153:PRO:O	2.03	0.59
1:A:549:SER:OG	1:A:550:PHE:N	2.36	0.59
1:A:787:ILE:O	1:A:790:THR:N	2.35	0.59
1:D:529:PRO:HG3	4:9:353:GLN:OE1	2.03	0.59
3:F:49:ILE:CA	3:F:52:ASN:ND2	2.53	0.59
1:G:601:ASP:N	1:G:602:PRO:HD3	2.18	0.59
1:G:795:ARG:HH21	3:I:116:GLU:HA	1.68	0.59
1:J:230:GLU:O	1:J:234:ASN:HB2	2.03	0.59
1:J:464:ILE:HG22	1:J:465:ALA:N	2.18	0.59
1:J:839:MLY:CH1	2:K:159:HIS:HD2	2.14	0.59
3:L:49:ILE:HA	3:L:52:ASN:ND2	2.06	0.59
1:M:40:VAL:HG22	1:M:41:VAL:H	1.67	0.59
1:M:721:LYS:C	1:M:736:GLN:OE1	2.46	0.59
1:S:40:VAL:HG22	1:S:41:VAL:H	1.67	0.59
4:4:287:ILE:H	4:4:287:ILE:HD12	1.67	0.59
1:D:646:PHE:CD2	1:D:652:LEU:CD1	2.85	0.58
1:D:715:VAL:HG11	1:D:720:PHE:HD1	1.68	0.58
1:D:732:ILE:HG22	1:D:747:LEU:CD1	1.55	0.58
1:G:612:GLN:HE22	1:G:627:GLY:HA2	1.66	0.58
1:G:823:PHE:HE1	2:H:160:GLY:HA2	1.68	0.58
1:J:97:LEU:HD22	1:J:712:PRO:CB	2.33	0.58
1:J:124:VAL:HG13	1:J:675:ILE:CD1	2.33	0.58
1:J:542:PHE:CD1	4:W:143:TYR:CE1	2.91	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:549:SER:OG	1:J:550:PHE:N	2.35	0.58
1:J:553:MLY:HB2	4:Y:46:GLY:HA3	1.83	0.58
1:J:557:GLU:HB2	4:Y:47:MET:O	2.03	0.58
1:M:48:VAL:HG22	1:M:49:MLY:N	2.18	0.58
1:M:49:MLY:HH13	1:M:108:GLU:OE2	2.02	0.58
1:S:629:GLU:HB3	1:S:645:SER:N	2.18	0.58
1:S:676:ILE:O	1:S:676:ILE:HG23	2.03	0.58
1:S:783:LEU:CA	1:S:786:ILE:HD11	2.30	0.58
1:S:797:PHE:CZ	3:U:146:ILE:HG23	2.37	0.58
4:5:287:ILE:H	4:5:287:ILE:HD12	1.67	0.58
1:A:135:TYR:N	1:A:135:TYR:CD1	2.70	0.58
1:A:506:GLU:CD	1:A:761:GLY:N	2.61	0.58
1:A:813:ILE:O	1:A:817:GLN:N	2.30	0.58
1:D:507:GLY:CA	1:D:762:HIS:CE1	2.82	0.58
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.58
1:D:800:ARG:HB3	3:F:149:VAL:HG22	1.85	0.58
3:F:127:MET:HE2	3:F:137:ILE:HD13	1.85	0.58
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.58
2:H:112:ILE:C	2:H:147:ASN:O	2.42	0.58
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.58
1:J:538:GLU:CG	4:W:351:THR:C	2.73	0.58
3:O:3:SER:HG	3:O:5:ALA:N	2.02	0.58
1:S:546:THR:HG22	1:S:547:ASP:N	2.17	0.58
4:6:287:ILE:H	4:6:287:ILE:HD12	1.67	0.58
1:A:550:PHE:CE2	1:A:592:ILE:HG23	2.37	0.58
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	0.58
1:A:735:GLY:O	1:A:743:ALA:HA	1.94	0.58
3:C:52:ASN:N	3:C:53:PRO:CD	2.65	0.58
1:D:116:TYR:HB2	1:D:153:PRO:O	2.03	0.58
1:D:195:TYR:O	1:D:199:ILE:HG23	2.03	0.58
1:G:795:ARG:C	3:I:35:ARG:NH2	2.61	0.58
1:G:830:PRO:HB3	2:H:67:MET:HE2	1.82	0.58
1:J:265:ILE:HG22	1:J:266:GLU:N	2.18	0.58
1:J:797:PHE:HE2	3:L:126:LEU:CD2	2.11	0.58
1:J:837:MLY:O	1:J:840:PRO:HD2	2.02	0.58
1:M:124:VAL:HG13	1:M:675:ILE:CD1	2.33	0.58
1:M:640:LYS:C	4:Z:23:GLY:CA	2.64	0.58
3:O:127:MET:HE2	3:O:137:ILE:HD13	1.85	0.58
1:S:195:TYR:O	1:S:199:ILE:HG23	2.03	0.58
1:S:230:GLU:O	1:S:234:ASN:HB2	2.03	0.58
4:1:287:ILE:CG2	4:3:202:THR:C	2.73	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:324:THR:HG23	4:3:244:ASP:CA	2.32	0.58
1:A:124:VAL:HG13	1:A:675:ILE:HD13	1.84	0.58
1:A:464:ILE:HG22	1:A:465:ALA:N	2.18	0.58
1:A:529:PRO:HG3	4:8:353:GLN:OE1	2.03	0.58
1:A:538:GLU:O	1:A:541:MET:HB2	2.04	0.58
2:B:130:PRO:HA	2:B:133:ILE:HD12	1.84	0.58
3:C:46:ILE:O	3:C:50:LEU:CG	2.47	0.58
1:D:601:ASP:N	1:D:602:PRO:HD3	2.18	0.58
1:D:629:GLU:HB3	1:D:645:SER:N	2.18	0.58
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.58
1:D:732:ILE:CD1	1:D:782:MLY:HH22	2.33	0.58
1:J:40:VAL:HG22	1:J:41:VAL:H	1.67	0.58
1:J:141:LEU:O	1:J:144:ARG:HB3	2.03	0.58
1:J:195:TYR:O	1:J:199:ILE:HG23	2.03	0.58
1:J:643:GLY:HA2	4:W:24:ASP:OD1	2.04	0.58
1:J:676:ILE:HG23	1:J:676:ILE:O	2.03	0.58
1:M:254:PHE:CE2	1:M:459:ILE:HD12	2.39	0.58
1:M:794:CYS:O	1:M:798:LEU:N	2.37	0.58
1:S:124:VAL:HG13	1:S:675:ILE:CD1	2.33	0.58
1:S:141:LEU:O	1:S:144:ARG:HB3	2.04	0.58
4:1:288:ASP:H	4:3:203:THR:CG2	2.17	0.58
1:D:175:ILE:HA	1:D:670:HIS:O	2.04	0.58
1:D:230:GLU:O	1:D:234:ASN:HB2	2.03	0.58
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.58
3:F:52:ASN:HB2	3:F:53:PRO:CD	2.28	0.58
1:G:40:VAL:HG22	1:G:41:VAL:H	1.67	0.58
1:G:464:ILE:HG22	1:G:465:ALA:N	2.18	0.58
1:G:795:ARG:HA	3:I:118:MET:SD	2.43	0.58
1:J:202:SER:HA	1:J:207:LYS:HE3	1.72	0.58
1:J:254:PHE:CE2	1:J:459:ILE:HD12	2.39	0.58
1:J:817:GLN:HG2	2:K:127:ARG:HB3	1.72	0.58
1:J:831:TRP:NE1	2:K:67:MET:HB3	2.14	0.58
1:M:550:PHE:CE2	1:M:592:ILE:HG23	2.37	0.58
1:M:629:GLU:HB3	1:M:645:SER:N	2.18	0.58
1:M:776:GLU:O	1:M:779:ARG:HB3	2.02	0.58
1:S:749:GLY:O	3:U:89:GLU:CB	2.48	0.58
1:S:796:GLY:N	3:U:35:ARG:CZ	2.67	0.58
1:D:124:VAL:HG13	1:D:675:ILE:CD1	2.33	0.58
1:D:135:TYR:N	1:D:135:TYR:CD1	2.70	0.58
1:D:713:SER:OG	1:D:771:LEU:HD23	1.25	0.58
1:D:776:GLU:O	1:D:779:ARG:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:787:ILE:O	1:D:790:THR:N	2.35	0.58
1:D:834:LEU:HD11	2:E:54:MET:HG3	0.59	0.58
1:D:839:MLY:HH11	2:E:159:HIS:CD2	2.39	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:97:LEU:CD2	1:G:712:PRO:CA	2.82	0.58
1:G:217:THR:C	1:G:221:GLN:NE2	2.62	0.58
1:G:629:GLU:HB3	1:G:645:SER:N	2.18	0.58
1:G:715:VAL:HG11	1:G:720:PHE:HD1	1.68	0.58
1:G:819:ASN:N	2:H:90:GLY:O	2.33	0.58
1:J:93:MET:CE	1:J:764:MLY:HD2	2.31	0.58
1:J:642:LYS:CG	4:W:22:ALA:CA	2.80	0.58
1:J:819:ASN:OD1	2:K:90:GLY:O	2.21	0.58
1:M:549:SER:OG	1:M:550:PHE:N	2.36	0.58
1:M:629:GLU:CB	1:M:643:GLY:C	2.76	0.58
1:M:642:LYS:CG	4:Z:22:ALA:CA	2.80	0.58
1:M:676:ILE:O	1:M:676:ILE:HG23	2.03	0.58
1:S:175:ILE:HA	1:S:670:HIS:O	2.03	0.58
1:S:813:ILE:O	1:S:817:GLN:N	2.30	0.58
1:S:819:ASN:OD1	2:T:92:ASP:CA	2.50	0.58
1:A:49:MLY:HH13	1:A:108:GLU:OE2	2.03	0.58
1:A:141:LEU:O	1:A:144:ARG:HB3	2.03	0.58
1:A:254:PHE:CE2	1:A:459:ILE:HD12	2.39	0.58
1:A:502:GLU:OE2	1:A:761:GLY:N	2.21	0.58
1:A:557:GLU:HG3	1:A:557:GLU:O	2.01	0.58
1:D:40:VAL:HG22	1:D:41:VAL:H	1.67	0.58
1:D:418:THR:HG22	1:D:419:VAL:H	1.69	0.58
1:D:464:ILE:HG22	1:D:465:ALA:N	2.18	0.58
1:D:795:ARG:HE	3:F:116:GLU:CB	2.15	0.58
1:D:827:MLY:CH2	2:E:139:ALA:HB3	2.22	0.58
1:G:175:ILE:HA	1:G:670:HIS:O	2.03	0.58
3:I:127:MET:HE2	3:I:137:ILE:HD13	1.85	0.58
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.58
1:M:539:GLU:OE2	4:2:45:VAL:C	2.47	0.58
1:M:601:ASP:N	1:M:602:PRO:HD3	2.18	0.58
1:S:418:THR:HG22	1:S:419:VAL:H	1.69	0.58
1:S:549:SER:OG	1:S:550:PHE:N	2.35	0.58
1:S:796:GLY:CA	3:U:35:ARG:NE	2.67	0.58
2:T:117:LEU:CG	2:T:147:ASN:CB	2.76	0.58
4:2:167:GLU:OE1	4:4:43:VAL:N	2.36	0.58
1:A:499:GLU:CD	1:A:766:PHE:CE2	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:794:CYS:O	1:A:798:LEU:N	2.37	0.58
1:D:99:GLU:OE2	1:D:696:ARG:NH2	2.31	0.58
1:D:254:PHE:CE2	1:D:459:ILE:HD12	2.39	0.58
1:D:279:LEU:HB3	1:D:280:PRO:HD2	1.86	0.58
1:D:550:PHE:CE2	1:D:592:ILE:HG23	2.37	0.58
1:D:634:GLY:N	4:9:25:ASP:O	2.31	0.58
1:D:712:PRO:HB2	1:D:771:LEU:HD22	1.83	0.58
3:F:102:VAL:HG23	3:F:139:TYR:CD1	2.39	0.58
1:G:542:PHE:CD1	4:V:143:TYR:CE1	2.91	0.58
1:G:568:PRO:HG3	1:G:578:HIS:H	1.69	0.58
1:J:92:ALA:O	1:J:714:ARG:HG3	2.02	0.58
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:J:643:GLY:N	4:W:23:GLY:C	2.55	0.58
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.58
1:M:127:ASN:ND2	1:M:128:PRO:HD2	2.16	0.58
1:M:529:PRO:HG3	4:Z:353:GLN:OE1	2.04	0.58
1:S:64:THR:HG22	1:S:65:GLU:N	2.19	0.58
1:S:218:LEU:N	1:S:221:GLN:HE21	2.01	0.58
1:S:538:GLU:O	1:S:541:MET:HB2	2.03	0.58
1:S:599:ASN:CG	1:S:649:VAL:H	2.12	0.58
1:S:642:LYS:CD	4:2:340:TRP:CZ3	2.79	0.58
4:X:287:ILE:HG13	4:Z:201:VAL:CB	2.34	0.58
1:A:553:MLY:CE	4:V:45:VAL:CA	2.49	0.58
1:A:629:GLU:HB3	1:A:645:SER:N	2.18	0.58
3:C:102:VAL:HG11	3:C:107:LEU:HB2	1.85	0.58
3:C:127:MET:HE2	3:C:137:ILE:HD13	1.85	0.58
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.85	0.58
1:D:218:LEU:N	1:D:221:GLN:HE21	2.01	0.58
1:G:49:MLY:HH13	1:G:108:GLU:OE2	2.03	0.58
1:G:529:PRO:HG3	4:V:353:GLN:OE1	2.04	0.58
1:G:642:LYS:CG	4:V:22:ALA:CA	2.80	0.58
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	0.58
1:G:817:GLN:CG	2:H:127:ARG:CB	2.74	0.58
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.85	0.58
1:J:64:THR:HG22	1:J:65:GLU:N	2.19	0.58
1:J:116:TYR:HB2	1:J:153:PRO:O	2.03	0.58
1:J:529:PRO:HG3	4:W:353:GLN:OE1	2.04	0.58
1:M:210:GLN:O	1:M:211:SER:OG	2.15	0.58
1:M:464:ILE:HG22	1:M:465:ALA:N	2.18	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)
3:O:102:VAL:HG23	3:O:139:TYR:CD1	2.39	0.58
1:S:99:GLU:OE2	1:S:696:ARG:NH2	2.30	0.58
4:3:322:PRO:HB3	4:5:244:ASP:OD2	2.03	0.58
4:X:325:MET:CE	4:Z:244:ASP:OD2	2.52	0.58
1:A:166:MET:HE2	1:A:457:TYR:HB2	1.84	0.58
1:A:643:GLY:HA2	4:8:24:ASP:OD1	2.04	0.58
1:A:676:ILE:HG23	1:A:676:ILE:O	2.03	0.58
1:A:818:TYR:CB	2:B:90:GLY:N	2.67	0.58
1:D:508:ILE:HD13	1:D:766:PHE:CG	2.38	0.58
1:G:64:THR:HG22	1:G:65:GLU:N	2.19	0.58
1:G:721:LYS:C	1:G:736:GLN:OE1	2.46	0.58
1:G:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.58
1:M:217:THR:C	1:M:221:GLN:NE2	2.62	0.58
1:M:557:GLU:HG3	1:M:557:GLU:O	2.00	0.58
1:S:279:LEU:HB3	1:S:280:PRO:HD2	1.86	0.58
1:S:529:PRO:HG3	4:2:353:GLN:OE1	2.04	0.58
1:S:805:ALA:C	1:S:808:GLU:N	2.62	0.58
4:3:223:PHE:HD2	4:3:312:ARG:NH2	1.99	0.58
1:A:601:ASP:N	1:A:602:PRO:HD3	2.18	0.57
1:A:612:GLN:HE22	1:A:627:GLY:HA2	1.66	0.57
1:A:646:PHE:CD2	1:A:652:LEU:CD1	2.85	0.57
1:A:800:ARG:NH2	3:C:40:ASN:CG	2.62	0.57
1:D:141:LEU:O	1:D:144:ARG:HB3	2.03	0.57
1:G:538:GLU:O	1:G:541:MET:HB2	2.04	0.57
1:J:175:ILE:HA	1:J:670:HIS:O	2.03	0.57
1:J:530:MET:HA	4:W:354:GLN:CB	2.28	0.57
1:J:599:ASN:CG	1:J:649:VAL:H	2.12	0.57
1:M:821:ARG:HH12	2:N:127:ARG:NE	2.02	0.57
2:N:163:ALA:HA	2:T:21:GLU:OE1	2.05	0.57
1:S:48:VAL:HG22	1:S:49:MLY:N	2.18	0.57
1:S:568:PRO:HG3	1:S:578:HIS:H	1.69	0.57
1:S:730:SER:HB2	3:U:94:PHE:CD2	2.39	0.57
1:S:749:GLY:CA	3:U:93:VAL:CG2	2.80	0.57
1:S:804:ARG:C	1:S:807:VAL:N	2.62	0.57
1:S:805:ALA:C	1:S:809:ARG:HB2	2.28	0.57
1:S:821:ARG:NH2	2:T:127:ARG:CD	2.66	0.57
4:2:112:PRO:CG	4:3:196:ARG:CA	2.80	0.57
1:G:22:LYS:O	1:G:26:GLU:N	2.29	0.57
1:G:279:LEU:HB3	1:G:280:PRO:HD2	1.86	0.57
1:J:279:LEU:HB3	1:J:280:PRO:HD2	1.86	0.57
1:J:640:LYS:C	4:W:23:GLY:CA	2.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:64:THR:HG22	1:M:65:GLU:N	2.19	0.57
1:M:166:MET:HE2	1:M:457:TYR:HB2	1.84	0.57
1:M:195:TYR:O	1:M:199:ILE:HG23	2.03	0.57
1:M:538:GLU:O	1:M:541:MET:HB2	2.03	0.57
1:M:795:ARG:NH2	3:O:116:GLU:CD	2.62	0.57
1:S:464:ILE:HG22	1:S:465:ALA:N	2.18	0.57
1:S:530:MET:CA	4:2:354:GLN:HB3	2.35	0.57
4:3:287:ILE:HG21	4:5:204:ALA:N	2.19	0.57
1:A:539:GLU:OE2	4:V:45:VAL:C	2.47	0.57
1:A:642:LYS:HG2	4:8:22:ALA:C	2.28	0.57
1:A:820:VAL:HG21	2:B:136:MET:HE1	1.87	0.57
1:D:64:THR:HG22	1:D:65:GLU:N	2.19	0.57
1:D:538:GLU:O	1:D:541:MET:HB2	2.04	0.57
1:D:836:PHE:CE1	2:E:159:HIS:HA	2.40	0.57
1:G:166:MET:HE2	1:G:457:TYR:HB2	1.84	0.57
1:G:254:PHE:CE2	1:G:459:ILE:HD12	2.39	0.57
1:G:768:MLY:HH22	1:G:772:LEU:HD13	1.62	0.57
1:J:202:SER:CA	1:J:207:LYS:HE3	2.27	0.57
3:L:127:MET:HE2	3:L:137:ILE:HD13	1.85	0.57
1:M:797:PHE:HE2	3:O:126:LEU:HD22	1.50	0.57
1:M:813:ILE:O	1:M:816:ILE:N	2.37	0.57
1:S:265:ILE:HG22	1:S:266:GLU:N	2.18	0.57
4:4:287:ILE:CB	4:6:203:THR:HG22	2.29	0.57
1:A:175:ILE:HA	1:A:670:HIS:O	2.04	0.57
1:A:541:MET:HG2	4:8:345:ILE:CG2	2.35	0.57
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	0.57
1:D:322:VAL:HG11	1:D:325:ILE:HD11	1.86	0.57
1:D:579:PHE:CD2	1:D:592:ILE:HD11	2.40	0.57
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	0.57
1:J:579:PHE:CD2	1:J:592:ILE:HD11	2.40	0.57
1:J:629:GLU:HB3	1:J:645:SER:N	2.18	0.57
1:J:784:ALA:O	1:J:788:THR:CB	2.52	0.57
1:M:530:MET:CA	4:Z:354:GLN:HB3	2.35	0.57
1:S:149:GLN:OE1	1:S:762:HIS:O	2.21	0.57
1:S:731:ALA:CB	3:U:93:VAL:CB	2.80	0.57
1:A:48:VAL:HG22	1:A:49:MLY:N	2.18	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:A:568:PRO:HG3	1:A:578:HIS:H	1.69	0.57
1:A:715:VAL:HG11	1:A:720:PHE:HD1	1.68	0.57
1:A:768:MLY:HB3	1:A:771:LEU:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:813:ILE:O	1:G:816:ILE:N	2.37	0.57
3:I:102:VAL:HG23	3:I:139:TYR:CD1	2.39	0.57
1:M:630:ALA:CA	4:Z:25:ASP:OD2	2.53	0.57
1:M:715:VAL:HG11	1:M:720:PHE:HD1	1.68	0.57
1:M:820:VAL:CG1	2:N:136:MET:CE	2.81	0.57
1:S:127:ASN:ND2	1:S:128:PRO:HD2	2.16	0.57
1:S:166:MET:HE2	1:S:457:TYR:HB2	1.85	0.57
1:S:601:ASP:N	1:S:602:PRO:HD3	2.18	0.57
1:S:731:ALA:HB1	3:U:93:VAL:HG12	1.87	0.57
1:S:783:LEU:CD2	1:S:786:ILE:HD11	2.24	0.57
1:S:797:PHE:CD2	3:U:146:ILE:HG23	2.40	0.57
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.57
1:D:727:LEU:N	1:D:782:MLY:CE	2.66	0.57
1:D:831:TRP:CZ3	2:E:34:ILE:CD1	2.87	0.57
1:G:141:LEU:O	1:G:144:ARG:HB3	2.03	0.57
1:G:817:GLN:CB	2:H:127:ARG:CD	2.79	0.57
1:J:82:PRO:HD2	1:J:85:TYR:CD2	2.40	0.57
1:J:538:GLU:O	1:J:541:MET:HB2	2.03	0.57
1:J:568:PRO:HG3	1:J:578:HIS:H	1.69	0.57
1:S:746:LYS:HZ3	3:U:96:LYS:CA	2.13	0.57
1:S:747:LEU:O	1:S:747:LEU:HD23	2.05	0.57
1:S:818:TYR:CD1	2:T:127:ARG:NH1	2.73	0.57
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.85	0.57
1:A:798:LEU:HD21	3:C:126:LEU:HD11	1.84	0.57
1:D:82:PRO:HD2	1:D:85:TYR:CD2	2.40	0.57
1:D:643:GLY:HA2	4:9:24:ASP:OD1	2.04	0.57
1:D:813:ILE:O	1:D:816:ILE:N	2.37	0.57
1:D:831:TRP:HH2	2:E:34:ILE:HG23	1.68	0.57
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	0.57
1:G:265:ILE:HG22	1:G:266:GLU:N	2.18	0.57
1:G:599:ASN:CG	1:G:649:VAL:H	2.12	0.57
1:G:643:GLY:HA2	4:V:24:ASP:OD1	2.04	0.57
1:G:747:LEU:HD23	1:G:747:LEU:O	2.05	0.57
3:I:52:ASN:HB2	3:I:53:PRO:CD	2.28	0.57
1:J:322:VAL:HG11	1:J:325:ILE:HD11	1.86	0.57
1:J:409:GLY:HA3	4:W:333:PRO:CD	2.34	0.57
1:J:819:ASN:HA	2:K:90:GLY:C	2.20	0.57
1:M:141:LEU:O	1:M:144:ARG:HB3	2.04	0.57
1:M:218:LEU:N	1:M:221:GLN:HE21	2.01	0.57
1:M:279:LEU:HB3	1:M:280:PRO:HD2	1.87	0.57
1:M:409:GLY:HA3	4:Z:333:PRO:CD	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:747:LEU:O	1:M:747:LEU:HD23	2.04	0.57
1:S:7:MET:HE3	1:S:14:ALA:HB1	1.85	0.57
1:S:630:ALA:CA	4:2:25:ASP:OD2	2.53	0.57
4:1:204:ALA:H	4:Y:288:ASP:N	2.03	0.57
1:A:82:PRO:HD2	1:A:85:TYR:CD2	2.40	0.57
1:A:279:LEU:HB3	1:A:280:PRO:HD2	1.86	0.57
1:A:747:LEU:HD23	1:A:747:LEU:O	2.05	0.57
1:A:795:ARG:CD	3:C:43:ASN:CG	2.77	0.57
1:A:813:ILE:O	1:A:816:ILE:N	2.37	0.57
3:C:52:ASN:HB2	3:C:53:PRO:CD	2.28	0.57
1:D:541:MET:HG2	4:9:345:ILE:CG2	2.35	0.57
1:D:817:GLN:OE1	2:E:127:ARG:NH1	2.27	0.57
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.57
1:G:676:ILE:HG23	1:G:676:ILE:O	2.03	0.57
1:G:817:GLN:HB3	2:H:127:ARG:HH11	1.70	0.57
1:J:48:VAL:HG22	1:J:49:MLY:N	2.18	0.57
1:J:418:THR:HG22	1:J:419:VAL:H	1.69	0.57
1:J:747:LEU:O	1:J:747:LEU:HD23	2.05	0.57
1:J:813:ILE:O	1:J:816:ILE:N	2.37	0.57
1:M:265:ILE:HG22	1:M:266:GLU:N	2.18	0.57
1:M:767:PHE:CE1	1:M:771:LEU:HB3	2.38	0.57
1:S:409:GLY:HA3	4:2:333:PRO:CD	2.35	0.57
1:S:715:VAL:HG11	1:S:720:PHE:HD1	1.68	0.57
1:S:731:ALA:HB1	3:U:93:VAL:CG1	2.34	0.57
1:A:64:THR:HG22	1:A:65:GLU:N	2.19	0.57
1:A:109:ARG:O	1:A:114:MET:N	2.37	0.57
1:A:418:THR:HG22	1:A:419:VAL:H	1.70	0.57
1:A:529:PRO:CG	4:8:353:GLN:OE1	2.53	0.57
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.60	0.57
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.57
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.57
2:H:117:LEU:CG	2:H:147:ASN:CB	2.76	0.57
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	0.57
1:M:7:MET:HE3	1:M:14:ALA:HB1	1.85	0.57
1:M:175:ILE:HA	1:M:670:HIS:O	2.03	0.57
1:S:254:PHE:CE2	1:S:459:ILE:HD12	2.39	0.57
1:S:642:LYS:CG	4:2:22:ALA:CA	2.80	0.57
1:S:813:ILE:O	1:S:816:ILE:N	2.37	0.57
1:S:831:TRP:NE1	2:T:67:MET:HB3	2.14	0.57
4:X:287:ILE:HG13	4:Z:201:VAL:CG2	2.32	0.57
1:A:127:ASN:ND2	1:A:128:PRO:HD2	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:338:ILE:HG21	1:A:348:MLY:HB3	1.87	0.57
1:A:409:GLY:HA3	4:8:333:PRO:CD	2.34	0.57
1:A:707:CYS:SG	1:A:714:ARG:NH1	2.77	0.57
1:D:409:GLY:HA3	4:9:333:PRO:CD	2.35	0.57
1:D:530:MET:CA	4:9:354:GLN:HB3	2.35	0.57
1:D:836:PHE:CE2	2:E:160:GLY:O	2.58	0.57
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.57
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	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:J:783:LEU:O	1:J:787:ILE:CB	2.52	0.57
1:M:338:ILE:HG21	1:M:348:MLY:HB3	1.87	0.57
1:M:418:THR:HG22	1:M:419:VAL:H	1.69	0.57
1:M:649:VAL:HA	1:M:649:VAL:HG23	1.83	0.57
1:S:22:LYS:O	1:S:26:GLU:N	2.30	0.57
1:S:752:ASP:N	1:S:779:ARG:HH22	1.97	0.57
1:A:218:LEU:N	1:A:221:GLN:HE21	2.01	0.56
1:A:635:GLY:HA3	4:8:334:GLU:CG	2.30	0.56
1:D:48:VAL:HG22	1:D:49:MLY:N	2.18	0.56
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.56
1:D:794:CYS:O	1:D:798:LEU:N	2.37	0.56
1:G:646:PHE:CD2	1:G:652:LEU:CD1	2.85	0.56
3:I:102:VAL:HG11	3:I:107:LEU:HB2	1.85	0.56
1:J:797:PHE:HE1	3:L:146:ILE:CA	2.18	0.56
1:M:541:MET:HG2	4:Z:345:ILE:CG2	2.35	0.56
1:M:646:PHE:CD2	1:M:652:LEU:CD1	2.85	0.56
1:A:530:MET:CA	4:8:354:GLN:HB3	2.35	0.56
2:B:54:MET:C	2:H:21:GLU:OE1	2.47	0.56
1:D:127:ASN:ND2	1:D:128:PRO:HD2	2.16	0.56
1:D:411:GLU:H	4:9:333:PRO:HG2	1.70	0.56
1:D:568:PRO:HG3	1:D:578:HIS:H	1.69	0.56
1:D:677:PRO:HB2	1:D:678:ASN:ND2	2.20	0.56
1:D:732:ILE:HD12	1:D:782:MLY:HH22	1.87	0.56
1:D:831:TRP:CE3	2:E:34:ILE:HD13	2.40	0.56
1:D:831:TRP:HZ2	2:E:47:LEU:HD22	1.70	0.56
1:G:409:GLY:HA3	4:V:333:PRO:CD	2.35	0.56
1:G:553:MLY:HH13	4:X:45:VAL:CG1	2.25	0.56
3:I:49:ILE:HA	3:I:52:ASN:ND2	2.06	0.56
1:J:217:THR:HG22	1:J:218:LEU:O	2.05	0.56
1:J:638:GLY:CA	4:W:345:ILE:H	2.18	0.56
1:J:756:THR:CG2	1:J:776:GLU:C	2.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:768:MLY:CH1	1:J:772:LEU:CD1	2.27	0.56
1:J:792:ALA:HB2	3:L:42:THR:CA	2.35	0.56
1:M:783:LEU:CA	1:M:786:ILE:CD1	2.74	0.56
4:3:287:ILE:CG2	4:5:202:THR:CA	2.75	0.56
1:A:107:MLY:CB	1:A:686:MET:HE2	2.32	0.56
1:A:302:MET:HG2	1:A:303:LEU:HD13	1.87	0.56
1:A:630:ALA:CA	4:8:25:ASP:OD2	2.53	0.56
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.45	0.56
1:A:755:HIS:HA	1:A:758:TYR:HE1	1.65	0.56
3:C:102:VAL:HG23	3:C:139:TYR:CD1	2.39	0.56
1:D:116:TYR:CE2	1:D:154:HIS:CD2	2.94	0.56
1:D:135:TYR:N	1:D:135:TYR:HD1	2.04	0.56
1:D:638:GLY:CA	4:9:345:ILE:H	2.19	0.56
1:D:800:ARG:HD2	3:F:149:VAL:C	2.30	0.56
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.85	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:J:107:MLY:CB	1:J:686:MET:HE2	2.32	0.56
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.94	0.56
1:J:677:PRO:HB2	1:J:678:ASN:ND2	2.20	0.56
1:J:795:ARG:CD	3:L:116:GLU:OE2	2.53	0.56
1:M:94:MET:C	1:M:713:SER:HB3	2.31	0.56
1:M:109:ARG:O	1:M:114:MET:N	2.37	0.56
1:M:643:GLY:HA2	4:Z:24:ASP:OD1	2.04	0.56
1:M:677:PRO:HB2	1:M:678:ASN:ND2	2.20	0.56
1:M:818:TYR:OH	2:N:127:ARG:NH2	2.37	0.56
1:S:135:TYR:N	1:S:135:TYR:HD1	2.04	0.56
1:S:640:LYS:C	1:S:645:SER:HG	2.12	0.56
1:S:731:ALA:HB1	3:U:94:PHE:N	2.17	0.56
1:S:733:PRO:CA	1:S:737:PHE:HE1	2.19	0.56
1:S:817:GLN:HB3	2:T:127:ARG:HD3	1.82	0.56
4:W:288:ASP:N	4:Y:204:ALA:H	2.03	0.56
1:A:135:TYR:N	1:A:135:TYR:HD1	2.04	0.56
1:A:677:PRO:HB2	1:A:678:ASN:ND2	2.20	0.56
1:A:733:PRO:CA	1:A:737:PHE:HE1	2.19	0.56
1:D:217:THR:HG22	1:D:218:LEU:O	2.06	0.56
3:F:3:SER:HG	3:F:5:ALA:N	2.03	0.56
1:G:302:MET:HG2	1:G:303:LEU:HD13	1.88	0.56
1:G:530:MET:CA	4:V:354:GLN:HB3	2.35	0.56
1:G:557:GLU:HG3	1:G:557:GLU:O	2.01	0.56
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.56
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:819:ASN:ND2	2:K:92:ASP:CB	2.48	0.56
1:M:568:PRO:HG3	1:M:578:HIS:H	1.69	0.56
1:M:798:LEU:HD13	3:O:126:LEU:CD2	2.20	0.56
1:M:819:ASN:ND2	2:N:92:ASP:CB	2.62	0.56
3:U:3:SER:HG	3:U:5:ALA:N	2.03	0.56
4:1:287:ILE:HG13	4:3:202:THR:CA	2.31	0.56
4:1:287:ILE:C	4:3:203:THR:HG22	2.30	0.56
4:2:365:ALA:HB3	4:2:369:ILE:HB	1.88	0.56
4:4:287:ILE:HG21	4:6:204:ALA:N	2.19	0.56
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.88	0.56
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:643:GLY:N	4:8:23:GLY:C	2.55	0.56
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	0.56
1:D:107:MLY:CB	1:D:686:MET:HE2	2.32	0.56
1:D:507:GLY:O	1:D:761:GLY:HA2	2.05	0.56
1:G:217:THR:HG22	1:G:218:LEU:O	2.06	0.56
1:G:768:MLY:CH2	1:G:772:LEU:CD1	2.06	0.56
1:G:792:ALA:HB1	3:I:42:THR:HA	1.84	0.56
1:J:640:LYS:C	4:W:23:GLY:C	2.74	0.56
1:J:642:LYS:HG2	4:W:21:PHE:C	2.30	0.56
1:J:725:ARG:HG3	1:J:733:PRO:CA	2.36	0.56
1:M:411:GLU:H	4:Z:333:PRO:HG2	1.71	0.56
1:M:529:PRO:CG	4:Z:353:GLN:OE1	2.54	0.56
1:M:817:GLN:CG	2:N:127:ARG:HB2	2.30	0.56
1:S:302:MET:HG2	1:S:303:LEU:HD13	1.87	0.56
1:S:541:MET:HG2	4:2:345:ILE:CG2	2.35	0.56
4:6:365:ALA:HB3	4:6:369:ILE:HB	1.88	0.56
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.88	0.56
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.56
1:D:406:VAL:HG12	1:D:407:GLY:H	1.71	0.56
1:D:733:PRO:CA	1:D:737:PHE:HE1	2.19	0.56
1:D:800:ARG:HD2	3:F:149:VAL:HG13	1.86	0.56
1:G:7:MET:HE3	1:G:14:ALA:CB	2.36	0.56
1:G:135:TYR:N	1:G:135:TYR:HD1	2.04	0.56
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	0.56
1:J:22:LYS:HA	1:J:25:ILE:HB	1.87	0.56
1:J:135:TYR:N	1:J:135:TYR:HD1	2.04	0.56
1:J:630:ALA:CA	4:W:25:ASP:OD2	2.53	0.56
1:J:733:PRO:CB	1:J:737:PHE:HE1	2.19	0.56
1:J:795:ARG:HG2	3:L:118:MET:CE	2.29	0.56
1:J:839:MLY:HH11	2:K:158:THR:CG2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:35:MLY:CE	1:M:777:GLU:OE2	2.51	0.56
1:M:82:PRO:HD2	1:M:85:TYR:CD2	2.40	0.56
1:S:217:THR:HG22	1:S:218:LEU:O	2.05	0.56
1:S:411:GLU:H	4:2:333:PRO:HG2	1.71	0.56
1:S:502:GLU:OE2	1:S:761:GLY:CA	2.48	0.56
1:S:791:GLN:HE22	3:U:116:GLU:N	1.98	0.56
4:4:287:ILE:HG23	4:6:202:THR:CG2	2.23	0.56
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.88	0.56
1:D:435:GLU:O	1:D:438:PHE:HB3	2.06	0.56
1:D:530:MET:CB	4:9:354:GLN:HG3	2.36	0.56
1:D:630:ALA:CA	4:9:25:ASP:OD2	2.53	0.56
1:D:640:LYS:C	4:9:23:GLY:C	2.74	0.56
1:D:747:LEU:HD23	1:D:747:LEU:O	2.05	0.56
1:G:411:GLU:H	4:V:333:PRO:HG2	1.70	0.56
1:G:546:THR:HB	1:G:549:SER:H	1.71	0.56
1:G:728:ASN:HD21	3:I:114:LEU:HA	1.71	0.56
1:G:733:PRO:CA	1:G:737:PHE:HE1	2.19	0.56
1:G:754:ASP:OD2	1:G:776:GLU:CA	2.49	0.56
1:M:95:THR:CB	1:M:713:SER:OG	2.54	0.56
1:M:135:TYR:N	1:M:135:TYR:HD1	2.04	0.56
1:M:220:ASP:O	1:M:224:SER:N	2.27	0.56
1:M:559:LEU:HD23	1:M:559:LEU:C	2.31	0.56
1:M:604:ASN:OD1	1:M:607:VAL:HG23	2.06	0.56
1:S:7:MET:HE3	1:S:14:ALA:CB	2.36	0.56
1:S:82:PRO:HD2	1:S:85:TYR:CD2	2.40	0.56
1:S:794:CYS:O	1:S:798:LEU:N	2.37	0.56
4:V:288:ASP:N	4:X:204:ALA:H	2.03	0.56
1:A:7:MET:HE3	1:A:14:ALA:CB	2.36	0.56
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	0.56
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	0.56
1:D:438:PHE:HA	1:D:441:MET:HE3	1.88	0.56
1:D:529:PRO:CG	4:9:353:GLN:OE1	2.53	0.56
1:D:733:PRO:CB	1:D:737:PHE:HE1	2.19	0.56
1:D:819:ASN:CA	2:E:90:GLY:O	2.53	0.56
1:G:84:MLY:HH21	1:G:720:PHE:CA	2.31	0.56
1:G:541:MET:HG2	4:V:345:ILE:CG2	2.35	0.56
1:J:83:PRO:C	1:J:723:ARG:NH2	2.64	0.56
1:J:99:GLU:OE2	1:J:696:ARG:NH2	2.30	0.56
1:M:13:ALA:C	1:M:15:PRO:HD2	2.31	0.56
1:M:95:THR:CB	1:M:713:SER:HB3	2.34	0.56
1:M:322:VAL:HG11	1:M:325:ILE:HD11	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:438:PHE:HA	1:M:441:MET:HE3	1.88	0.56
1:M:733:PRO:CB	1:M:737:PHE:HE1	2.19	0.56
1:M:733:PRO:CA	1:M:737:PHE:HE1	2.18	0.56
1:M:795:ARG:NE	3:O:118:MET:CE	2.69	0.56
1:S:107:MLY:CB	1:S:686:MET:HE2	2.32	0.56
1:S:217:THR:C	1:S:221:GLN:NE2	2.62	0.56
1:S:546:THR:HG21	1:S:548:THR:HB	1.88	0.56
1:S:604:ASN:OD1	1:S:607:VAL:HG23	2.06	0.56
1:S:643:GLY:HA2	4:2:24:ASP:OD1	2.04	0.56
4:2:287:ILE:CG2	4:4:202:THR:HB	2.35	0.56
4:6:299:MET:HE2	4:6:331:ALA:HB2	1.88	0.56
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.88	0.56
4:7:365:ALA:HB3	4:7:369:ILE:HB	1.88	0.56
4:Z:365:ALA:HB3	4:Z:369:ILE:HB	1.88	0.56
1:A:537:GLU:HB3	1:A:648:THR:CB	2.36	0.56
1:A:546:THR:HG21	1:A:548:THR:HB	1.88	0.56
1:A:634:GLY:N	4:8:25:ASP:O	2.31	0.56
1:D:32:PHE:CG	1:D:83:PRO:HD3	2.41	0.56
1:D:290:GLN:HG2	1:D:331:LEU:HA	1.87	0.56
1:D:629:GLU:O	1:D:643:GLY:HA3	2.06	0.56
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	0.56
1:G:22:LYS:O	1:G:26:GLU:HG3	2.06	0.56
1:G:127:ASN:ND2	1:G:128:PRO:HD2	2.17	0.56
1:G:435:GLU:O	1:G:438:PHE:HB3	2.06	0.56
1:G:769:ALA:HB2	1:G:770:GLY:N	2.21	0.56
1:J:13:ALA:C	1:J:15:PRO:HD2	2.31	0.56
1:J:295:MLY:CG	1:J:332:MET:HE2	2.36	0.56
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.56
1:M:7:MET:HE3	1:M:14:ALA:CB	2.36	0.56
1:M:537:GLU:HB3	1:M:648:THR:CB	2.36	0.56
1:M:612:GLN:HE22	1:M:627:GLY:HA2	1.66	0.56
1:M:649:VAL:CG1	1:M:649:VAL:HA	2.35	0.56
3:O:46:ILE:O	3:O:50:LEU:CG	2.47	0.56
1:S:13:ALA:C	1:S:15:PRO:HD2	2.31	0.56
1:S:32:PHE:CG	1:S:83:PRO:HD3	2.41	0.56
1:S:677:PRO:HB2	1:S:678:ASN:ND2	2.20	0.56
1:S:795:ARG:HH21	3:U:116:GLU:HA	1.68	0.56
4:1:322:PRO:CB	4:3:244:ASP:HB2	2.35	0.56
4:1:365:ALA:HB3	4:1:369:ILE:HB	1.88	0.56
4:2:110:LEU:O	4:3:195:GLU:HG3	2.06	0.56
4:3:287:ILE:CG2	4:5:202:THR:C	2.65	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:D:13:ALA:C	1:D:15:PRO:HD2	2.31	0.56
1:D:725:ARG:HG3	1:D:733:PRO:CA	2.36	0.56
1:D:800:ARG:HB3	3:F:149:VAL:HG13	1.87	0.56
1:G:107:MLY:CB	1:G:686:MET:HE2	2.32	0.56
1:G:338:ILE:HG21	1:G:348:MLY:HB3	1.87	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:206:LYS:HB3	1:J:217:THR:OG1	2.06	0.56
1:J:530:MET:CB	4:W:354:GLN:HG3	2.36	0.56
1:J:733:PRO:CA	1:J:737:PHE:HE1	2.19	0.56
1:J:794:CYS:O	1:J:798:LEU:N	2.37	0.56
1:M:302:MET:HG2	1:M:303:LEU:HD13	1.88	0.56
1:M:649:VAL:HA	1:M:649:VAL:HG22	1.80	0.56
1:M:725:ARG:HG3	1:M:733:PRO:CA	2.36	0.56
3:O:52:ASN:HB2	3:O:53:PRO:CD	2.28	0.56
1:S:438:PHE:HA	1:S:441:MET:HE3	1.88	0.56
4:V:291:LYS:HD2	4:X:243:PRO:HB2	1.87	0.56
1:A:32:PHE:CG	1:A:83:PRO:HD3	2.42	0.55
1:A:406:VAL:HG12	1:A:407:GLY:H	1.71	0.55
1:A:505:MLY:CG	1:A:762:HIS:CG	2.89	0.55
1:A:631:GLU:C	4:8:25:ASP:HB2	2.31	0.55
1:D:559:LEU:HD23	1:D:559:LEU:C	2.31	0.55
1:G:604:ASN:OD1	1:G:607:VAL:HG23	2.06	0.55
1:G:733:PRO:CB	1:G:737:PHE:HE1	2.19	0.55
1:J:435:GLU:O	1:J:438:PHE:HB3	2.06	0.55
1:J:438:PHE:HA	1:J:441:MET:HE3	1.88	0.55
1:M:505:MLY:HG3	1:M:762:HIS:HE1	1.72	0.55
1:M:631:GLU:C	4:Z:25:ASP:HB2	2.32	0.55
1:S:109:ARG:O	1:S:114:MET:N	2.37	0.55
1:S:116:TYR:CE2	1:S:154:HIS:CD2	2.94	0.55
1:S:290:GLN:HG2	1:S:331:LEU:HA	1.87	0.55
1:S:634:GLY:N	4:2:25:ASP:O	2.31	0.55
1:S:649:VAL:HA	1:S:649:VAL:HG23	1.83	0.55
1:S:732:ILE:HG22	1:S:747:LEU:CD1	1.55	0.55
4:9:365:ALA:HB3	4:9:369:ILE:HB	1.88	0.55
4:W:365:ALA:HB3	4:W:369:ILE:HB	1.88	0.55
1:A:22:LYS:O	1:A:26:GLU:HG3	2.06	0.55
1:A:345:ALA:O	1:A:349:THR:N	2.40	0.55
1:D:22:LYS:HA	1:D:25:ILE:HB	1.87	0.55
1:D:295:MLY:CG	1:D:332:MET:HE2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:206:LYS:HB3	1:G:217:THR:OG1	2.06	0.55
1:G:546:THR:HG21	1:G:548:THR:HB	1.88	0.55
1:G:635:GLY:HA3	4:V:334:GLU:CG	2.30	0.55
1:G:677:PRO:HB2	1:G:678:ASN:ND2	2.20	0.55
1:G:725:ARG:HG3	1:G:733:PRO:CA	2.36	0.55
1:J:109:ARG:O	1:J:114:MET:N	2.37	0.55
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	0.55
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	0.55
1:S:649:VAL:CG1	1:S:649:VAL:HA	2.35	0.55
4:1:243:PRO:HB2	4:Y:291:LYS:HD2	1.87	0.55
4:1:299:MET:HE2	4:1:331:ALA:HB2	1.88	0.55
4:W:291:LYS:HD2	4:Y:243:PRO:HB2	1.87	0.55
1:A:99:GLU:OE2	1:A:696:ARG:NH2	2.30	0.55
1:A:290:GLN:NE2	1:A:334:THR:OG1	2.40	0.55
1:A:481:ASN:N	1:A:481:ASN:ND2	2.51	0.55
1:A:559:LEU:HD23	1:A:559:LEU:C	2.31	0.55
1:A:757:GLN:OE1	1:A:771:LEU:CD1	2.32	0.55
1:A:783:LEU:O	1:A:787:ILE:N	2.28	0.55
1:D:85:TYR:OH	1:D:772:LEU:HD21	1.93	0.55
1:D:206:LYS:HB3	1:D:217:THR:OG1	2.06	0.55
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	0.55
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.55
1:J:338:ILE:HG21	1:J:348:MLY:HB3	1.87	0.55
1:J:411:GLU:H	4:W:333:PRO:HG2	1.71	0.55
1:J:529:PRO:CG	4:W:353:GLN:OE1	2.54	0.55
1:M:22:LYS:HA	1:M:25:ILE:HB	1.87	0.55
1:M:116:TYR:CE2	1:M:154:HIS:CD2	2.94	0.55
1:M:206:LYS:HB3	1:M:217:THR:OG1	2.06	0.55
1:M:290:GLN:HG2	1:M:331:LEU:HA	1.87	0.55
1:M:804:ARG:HA	1:M:807:VAL:HB	1.89	0.55
1:S:290:GLN:NE2	1:S:334:THR:OG1	2.40	0.55
1:S:435:GLU:O	1:S:438:PHE:HB3	2.06	0.55
1:S:481:ASN:N	1:S:481:ASN:ND2	2.51	0.55
1:S:642:LYS:HG2	4:2:21:PHE:C	2.30	0.55
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.55
1:A:290:GLN:HG2	1:A:331:LEU:HA	1.87	0.55
1:A:768:MLY:HB3	1:A:771:LEU:HD13	1.87	0.55
1:A:831:TRP:CE2	2:B:51:PHE:CE1	2.94	0.55
1:A:836:PHE:HB2	2:B:161:GLU:OE1	2.06	0.55
1:D:290:GLN:NE2	1:D:334:THR:OG1	2.40	0.55
1:D:642:LYS:CA	4:9:22:ALA:C	2.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	0.55
1:J:84:MLY:HH21	1:J:720:PHE:C	2.20	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:546:THR:HG21	1:J:548:THR:HB	1.88	0.55
1:J:553:MLY:HH13	4:Y:45:VAL:CG1	2.26	0.55
1:J:604:ASN:OD1	1:J:607:VAL:HG23	2.06	0.55
1:M:32:PHE:CG	1:M:83:PRO:HD3	2.41	0.55
1:M:800:ARG:HB3	3:O:149:VAL:HG21	1.83	0.55
1:M:839:MLY:HH11	2:N:158:THR:CG2	2.37	0.55
2:T:156:VAL:HA	2:T:159:HIS:O	2.07	0.55
3:U:123:VAL:O	3:U:127:MET:HG2	2.07	0.55
4:4:287:ILE:HG22	4:6:204:ALA:H	1.70	0.55
4:V:365:ALA:HB3	4:V:369:ILE:HB	1.88	0.55
1:A:97:LEU:CD2	1:A:712:PRO:HB2	2.31	0.55
1:A:206:LYS:HB3	1:A:217:THR:OG1	2.06	0.55
1:A:604:ASN:OD1	1:A:607:VAL:HG23	2.06	0.55
1:A:739:ASP:CB	1:A:742:LYS:CB	2.81	0.55
1:D:22:LYS:O	1:D:26:GLU:HG3	2.07	0.55
1:G:84:MLY:CH1	1:G:724:TYR:CE2	2.89	0.55
1:G:792:ALA:HB1	3:I:42:THR:CA	2.35	0.55
1:J:579:PHE:HE1	1:J:581:LEU:HD13	1.72	0.55
1:J:797:PHE:CE2	3:L:126:LEU:CD1	2.83	0.55
1:M:22:LYS:O	1:M:26:GLU:HG3	2.07	0.55
1:M:290:GLN:NE2	1:M:334:THR:OG1	2.40	0.55
1:M:629:GLU:O	1:M:643:GLY:HA3	2.06	0.55
1:M:640:LYS:C	4:Z:23:GLY:C	2.74	0.55
3:O:35:ARG:HA	3:O:39:GLN:O	2.07	0.55
1:S:530:MET:CB	4:2:354:GLN:HG3	2.36	0.55
1:S:546:THR:CB	4:4:46:GLY:C	2.80	0.55
1:S:579:PHE:CD2	1:S:592:ILE:HD11	2.39	0.55
1:S:612:GLN:HE22	1:S:627:GLY:HA2	1.66	0.55
1:S:629:GLU:O	1:S:643:GLY:HA3	2.06	0.55
4:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.88	0.55
3:C:35:ARG:HA	3:C:39:GLN:O	2.07	0.55
1:G:22:LYS:HA	1:G:25:ILE:HB	1.87	0.55
1:G:109:ARG:O	1:G:114:MET:N	2.37	0.55
1:G:406:VAL:HG12	1:G:407:GLY:H	1.71	0.55
1:G:537:GLU:HB3	1:G:648:THR:CB	2.36	0.55
3:I:35:ARG:HA	3:I:39:GLN:O	2.07	0.55
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:220:ASP:O	1:J:224:SER:N	2.27	0.55
1:J:290:GLN:HG2	1:J:331:LEU:HA	1.87	0.55
1:M:435:GLU:O	1:M:438:PHE:HB3	2.06	0.55
1:M:630:ALA:HA	4:Z:25:ASP:OD2	2.07	0.55
1:M:646:PHE:CE2	1:M:652:LEU:CG	2.90	0.55
1:M:797:PHE:CD1	3:O:146:ILE:O	2.60	0.55
1:S:206:LYS:HB3	1:S:217:THR:OG1	2.06	0.55
1:S:322:VAL:HG11	1:S:325:ILE:HD11	1.86	0.55
1:S:529:PRO:CB	4:2:354:GLN:HA	2.36	0.55
1:S:546:THR:HB	1:S:549:SER:H	1.71	0.55
4:4:322:PRO:HB3	4:6:244:ASP:OD2	2.04	0.55
1:A:438:PHE:HA	1:A:441:MET:HE3	1.88	0.55
1:A:725:ARG:HG3	1:A:733:PRO:CA	2.36	0.55
1:D:529:PRO:CB	4:9:354:GLN:HA	2.36	0.55
1:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.55
1:D:795:ARG:HD2	3:F:43:ASN:CG	2.32	0.55
1:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.55
1:G:438:PHE:HA	1:G:441:MET:HE3	1.88	0.55
1:G:631:GLU:C	4:V:25:ASP:HB2	2.31	0.55
1:J:84:MLY:CE	1:J:724:TYR:CE2	2.60	0.55
1:J:559:LEU:HD23	1:J:559:LEU:C	2.31	0.55
1:M:82:PRO:HD2	1:M:85:TYR:HD2	1.72	0.55
1:M:217:THR:HG22	1:M:218:LEU:O	2.05	0.55
1:M:739:ASP:CB	1:M:742:LYS:CB	2.81	0.55
1:S:559:LEU:C	1:S:559:LEU:HD23	2.31	0.55
1:S:635:GLY:HA3	4:2:334:GLU:CG	2.30	0.55
1:S:817:GLN:CB	2:T:127:ARG:HD3	2.37	0.55
4:1:287:ILE:HG22	4:3:204:ALA:H	1.70	0.55
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.88	0.55
4:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.88	0.55
1:D:7:MET:HE3	1:D:14:ALA:CB	2.36	0.55
1:D:135:TYR:HD2	1:D:191:ARG:HG2	1.72	0.55
1:D:338:ILE:HG21	1:D:348:MLY:HB3	1.87	0.55
1:D:345:ALA:O	1:D:349:THR:N	2.40	0.55
1:D:546:THR:HB	1:D:549:SER:H	1.71	0.55
1:D:579:PHE:HE1	1:D:581:LEU:HD13	1.72	0.55
2:E:156:VAL:HA	2:E:159:HIS:O	2.07	0.55
3:F:123:VAL:O	3:F:127:MET:HG2	2.07	0.55
1:G:148:ARG:NH2	1:G:764:MLY:CH2	2.62	0.55
1:G:290:GLN:NE2	1:G:334:THR:OG1	2.40	0.55
1:G:529:PRO:CG	4:V:353:GLN:OE1	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.55
1:J:546:THR:HB	1:J:549:SER:H	1.71	0.55
1:J:646:PHE:CE2	1:J:652:LEU:CG	2.90	0.55
3:L:35:ARG:HA	3:L:39:GLN:O	2.07	0.55
1:M:295:MLY:CG	1:M:332:MET:HE2	2.36	0.55
1:M:546:THR:HG21	1:M:548:THR:HB	1.88	0.55
1:M:642:LYS:HG2	4:Z:21:PHE:C	2.29	0.55
3:O:123:VAL:O	3:O:127:MET:HG2	2.07	0.55
1:S:22:LYS:HA	1:S:25:ILE:HB	1.87	0.55
1:S:338:ILE:HG21	1:S:348:MLY:HB3	1.87	0.55
1:S:345:ALA:O	1:S:349:THR:N	2.40	0.55
1:S:529:PRO:CG	4:2:353:GLN:OE1	2.54	0.55
1:S:579:PHE:HE1	1:S:581:LEU:HD13	1.72	0.55
1:S:725:ARG:HG3	1:S:733:PRO:CA	2.36	0.55
1:S:733:PRO:CB	1:S:737:PHE:HE1	2.19	0.55
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.88	0.55
4:X:285:CYS:O	4:Z:202:THR:CG2	2.48	0.55
1:A:529:PRO:CB	4:8:354:GLN:HA	2.36	0.55
1:A:579:PHE:HE1	1:A:581:LEU:HD13	1.72	0.55
1:A:640:LYS:C	4:8:23:GLY:C	2.74	0.55
1:A:732:ILE:HG21	1:A:747:LEU:CD1	0.64	0.55
1:A:800:ARG:O	3:C:149:VAL:CG2	2.55	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
2:E:162:ASP:O	2:K:21:GLU:HB3	2.06	0.55
1:G:530:MET:CB	4:V:354:GLN:HG3	2.37	0.55
1:G:579:PHE:HE1	1:G:581:LEU:HD13	1.72	0.55
1:G:646:PHE:CE2	1:G:652:LEU:CG	2.90	0.55
1:G:795:ARG:N	3:I:118:MET:CE	2.69	0.55
2:H:121:LEU:CA	2:H:128:PHE:CG	2.89	0.55
1:J:32:PHE:CG	1:J:83:PRO:HD3	2.41	0.55
1:J:290:GLN:NE2	1:J:334:THR:OG1	2.40	0.55
1:J:839:MLY:HH11	2:K:158:THR:HG22	1.89	0.55
1:M:546:THR:HB	1:M:549:SER:H	1.71	0.55
1:M:793:ARG:NH1	3:O:40:ASN:HD21	2.04	0.55
1:S:502:GLU:OE2	1:S:761:GLY:HA2	2.07	0.55
1:S:506:GLU:HG2	1:S:759:ALA:HA	1.88	0.55
1:S:638:GLY:CA	4:2:345:ILE:H	2.18	0.55
4:1:288:ASP:CB	4:3:203:THR:HG21	2.35	0.55
4:3:287:ILE:HG22	4:5:204:ALA:H	1.70	0.55
4:8:365:ALA:HB3	4:8:369:ILE:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:LYS:HA	1:A:25:ILE:HB	1.88	0.55
1:A:93:MET:C	1:A:713:SER:HB3	2.32	0.55
1:A:765:VAL:HG12	1:A:766:PHE:N	2.22	0.55
1:A:768:MLY:HB3	1:A:771:LEU:CG	2.36	0.55
1:D:82:PRO:HD2	1:D:85:TYR:HD2	1.72	0.55
1:D:220:ASP:O	1:D:224:SER:N	2.27	0.55
1:D:507:GLY:CA	1:D:762:HIS:ND1	2.70	0.55
1:D:631:GLU:C	4:9:25:ASP:HB2	2.31	0.55
1:G:32:PHE:CG	1:G:83:PRO:HD3	2.41	0.55
1:G:116:TYR:CE2	1:G:154:HIS:CD2	2.94	0.55
1:G:290:GLN:HG2	1:G:331:LEU:HA	1.87	0.55
1:G:345:ALA:O	1:G:349:THR:N	2.40	0.55
1:G:750:GLY:HA3	3:I:114:LEU:CD2	2.36	0.55
1:J:556:ASP:OD2	4:Y:44:MET:HG3	2.07	0.55
3:L:123:VAL:O	3:L:127:MET:HG2	2.07	0.55
1:M:579:PHE:HE1	1:M:581:LEU:HD13	1.72	0.55
1:S:84:MLY:CH2	1:S:724:TYR:HE2	2.19	0.55
1:S:95:THR:HA	1:S:713:SER:CB	2.37	0.55
1:S:640:LYS:C	4:2:23:GLY:C	2.74	0.55
1:S:795:ARG:HG3	3:U:118:MET:CE	2.03	0.55
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.88	0.55
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.55
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.88	0.55
1:D:295:MLY:CD	1:D:332:MET:HE2	2.37	0.54
1:D:302:MET:HG2	1:D:303:LEU:HD13	1.87	0.54
1:D:630:ALA:HA	4:9:25:ASP:OD2	2.07	0.54
1:D:646:PHE:CE2	1:D:652:LEU:CG	2.90	0.54
1:D:723:ARG:CG	1:D:723:ARG:HH11	2.20	0.54
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.54
1:G:723:ARG:HH11	1:G:723:ARG:CG	2.20	0.54
1:G:765:VAL:HG12	1:G:766:PHE:N	2.22	0.54
2:H:156:VAL:HA	2:H:159:HIS:O	2.07	0.54
3:I:123:VAL:O	3:I:127:MET:HG2	2.07	0.54
1:J:135:TYR:HD2	1:J:191:ARG:HG2	1.72	0.54
1:J:295:MLY:CD	1:J:332:MET:HE2	2.37	0.54
2:K:156:VAL:HA	2:K:159:HIS:O	2.07	0.54
1:M:635:GLY:HA3	4:Z:334:GLU:CG	2.30	0.54
1:M:735:GLY:O	1:M:743:ALA:HA	1.94	0.54
1:S:82:PRO:HD2	1:S:85:TYR:HD2	1.72	0.54
1:S:731:ALA:CB	3:U:93:VAL:HG12	2.36	0.54
3:U:102:VAL:HG23	3:U:139:TYR:CD1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:287:ILE:HD13	4:4:203:THR:HB	1.89	0.54
1:A:135:TYR:HD2	1:A:191:ARG:HG2	1.72	0.54
1:A:546:THR:HB	1:A:549:SER:H	1.71	0.54
1:A:646:PHE:CE2	1:A:652:LEU:CG	2.90	0.54
1:D:217:THR:C	1:D:221:GLN:NE2	2.62	0.54
1:D:305:ILE:HG22	1:D:312:TYR:CZ	2.42	0.54
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	0.54
1:D:818:TYR:CB	2:E:90:GLY:C	2.80	0.54
3:F:35:ARG:HA	3:F:39:GLN:O	2.07	0.54
1:G:78:PHE:HB3	1:G:98:HIS:NE2	2.23	0.54
1:G:638:GLY:CA	4:V:345:ILE:H	2.18	0.54
1:G:821:ARG:HH21	2:H:127:ARG:HG2	1.60	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CZ	2.42	0.54
1:J:629:GLU:O	1:J:643:GLY:HA3	2.06	0.54
1:J:630:ALA:HA	4:W:25:ASP:OD2	2.07	0.54
1:M:10:PHE:O	1:M:12:GLU:N	2.40	0.54
1:S:78:PHE:HB3	1:S:98:HIS:NE2	2.22	0.54
1:S:649:VAL:HA	1:S:649:VAL:HG22	1.81	0.54
4:3:365:ALA:HB3	4:3:369:ILE:HB	1.88	0.54
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	1.88	0.54
1:A:82:PRO:HD2	1:A:85:TYR:HD2	1.72	0.54
1:D:755:HIS:HA	1:D:758:TYR:HE1	1.64	0.54
1:D:836:PHE:HE2	2:E:160:GLY:CA	2.14	0.54
1:D:838:ILE:CD1	2:E:54:MET:HE1	2.37	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	0.54
1:G:640:LYS:C	4:V:23:GLY:C	2.75	0.54
1:G:789:ALA:HB1	3:I:81:GLN:CD	2.33	0.54
1:G:831:TRP:HE1	2:H:67:MET:CG	2.21	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CE2	2.43	0.54
1:M:295:MLY:CD	1:M:332:MET:HE2	2.37	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CZ	2.42	0.54
1:M:642:LYS:HA	4:Z:22:ALA:C	2.33	0.54
1:M:723:ARG:HH11	1:M:723:ARG:CG	2.20	0.54
2:N:156:VAL:HA	2:N:159:HIS:O	2.07	0.54
1:S:135:TYR:HD2	1:S:191:ARG:HG2	1.73	0.54
1:S:537:GLU:HB3	1:S:648:THR:CB	2.36	0.54
1:S:642:LYS:HA	4:2:22:ALA:C	2.33	0.54
1:S:646:PHE:CE2	1:S:652:LEU:CG	2.90	0.54
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.88	0.54
1:A:51:THR:C	1:A:62:VAL:HG13	2.32	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:98:HIS:HB3	1:D:100:PRO:CD	2.25	0.54
1:D:604:ASN:OD1	1:D:607:VAL:HG23	2.06	0.54
2:E:121:LEU:CA	2:E:128:PHE:CG	2.89	0.54
3:L:46:ILE:O	3:L:50:LEU:CG	2.47	0.54
1:M:345:ALA:O	1:M:349:THR:N	2.40	0.54
1:M:406:VAL:HG12	1:M:407:GLY:H	1.71	0.54
1:M:529:PRO:CB	4:Z:354:GLN:HA	2.36	0.54
1:M:530:MET:CB	4:Z:354:GLN:HG3	2.37	0.54
1:M:579:PHE:CD2	1:M:592:ILE:HD11	2.40	0.54
1:M:638:GLY:CA	4:Z:345:ILE:H	2.18	0.54
2:N:146:GLY:O	2:N:147:ASN:ND2	2.41	0.54
1:S:295:MLY:CG	1:S:332:MET:HE2	2.36	0.54
1:S:305:ILE:HG22	1:S:312:TYR:CZ	2.42	0.54
1:S:631:GLU:C	4:2:25:ASP:HB2	2.32	0.54
1:S:804:ARG:HA	1:S:807:VAL:CB	2.29	0.54
4:V:291:LYS:HD2	4:X:243:PRO:CB	2.37	0.54
4:X:287:ILE:HG23	4:Z:201:VAL:CG2	2.38	0.54
4:X:365:ALA:HB3	4:X:369:ILE:HB	1.88	0.54
1:A:10:PHE:O	1:A:12:GLU:N	2.41	0.54
1:A:530:MET:CB	4:8:354:GLN:HG3	2.36	0.54
1:A:629:GLU:O	1:A:643:GLY:HA3	2.06	0.54
1:A:649:VAL:CG1	1:A:649:VAL:HA	2.35	0.54
1:D:10:PHE:O	1:D:12:GLU:N	2.41	0.54
1:D:767:PHE:O	1:D:771:LEU:CD2	2.56	0.54
1:G:38:VAL:CB	1:G:52:ILE:HD11	2.38	0.54
1:G:103:LEU:C	1:G:103:LEU:HD12	2.33	0.54
1:J:10:PHE:O	1:J:12:GLU:N	2.40	0.54
1:J:345:ALA:O	1:J:349:THR:N	2.40	0.54
1:M:765:VAL:HG12	1:M:766:PHE:N	2.22	0.54
2:N:121:LEU:CA	2:N:128:PHE:CG	2.89	0.54
1:S:22:LYS:O	1:S:26:GLU:HG3	2.07	0.54
1:S:295:MLY:CD	1:S:332:MET:HE2	2.37	0.54
1:S:406:VAL:HG12	1:S:407:GLY:H	1.71	0.54
4:1:243:PRO:CB	4:Y:291:LYS:HD2	2.38	0.54
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.88	0.54
1:A:94:MET:O	1:A:713:SER:CB	2.52	0.54
1:A:103:LEU:C	1:A:103:LEU:HD12	2.33	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	0.54
1:A:295:MLY:CG	1:A:332:MET:HE2	2.36	0.54
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	0.54
1:A:753:VAL:CG1	1:A:775:LEU:CG	2.25	0.54
1:A:753:VAL:HG11	1:A:775:LEU:CD2	2.36	0.54
1:A:831:TRP:CZ3	2:B:50:THR:CB	2.90	0.54
1:D:78:PHE:HB3	1:D:98:HIS:NE2	2.22	0.54
1:D:546:THR:HG21	1:D:548:THR:HB	1.88	0.54
2:E:123:THR:HA	3:F:19:ARG:CZ	2.37	0.54
1:G:51:THR:C	1:G:62:VAL:HG13	2.32	0.54
1:G:126:VAL:HG13	1:G:675:ILE:HG22	1.89	0.54
1:G:571:ALA:O	1:G:572:LYS:CB	2.56	0.54
1:G:629:GLU:O	1:G:643:GLY:HA3	2.06	0.54
1:G:638:GLY:HA2	4:V:345:ILE:H	1.72	0.54
1:G:769:ALA:HB1	1:G:770:GLY:HA2	1.74	0.54
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	0.54
1:M:78:PHE:HB3	1:M:98:HIS:NE2	2.23	0.54
1:M:538:GLU:HG3	4:Z:352:PHE:CA	2.38	0.54
1:M:816:ILE:HD11	2:N:100:ALA:CB	2.36	0.54
1:S:10:PHE:O	1:S:12:GLU:N	2.40	0.54
1:S:93:MET:HE1	1:S:716:LEU:CG	2.37	0.54
1:S:552:ASN:N	4:4:49:GLN:HB2	1.91	0.54
1:S:739:ASP:CB	1:S:742:LYS:CB	2.81	0.54
1:S:789:ALA:HA	3:U:42:THR:HG21	1.88	0.54
3:U:35:ARG:HA	3:U:39:GLN:O	2.07	0.54
1:A:78:PHE:HB3	1:A:98:HIS:NE2	2.23	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CZ	2.43	0.54
1:A:649:VAL:HA	1:A:649:VAL:HG23	1.83	0.54
1:A:723:ARG:CG	1:A:723:ARG:HH11	2.20	0.54
1:A:768:MLY:C	1:A:771:LEU:HB2	2.37	0.54
1:D:22:LYS:O	1:D:26:GLU:N	2.29	0.54
1:D:38:VAL:CB	1:D:52:ILE:HD11	2.38	0.54
1:D:792:ALA:CB	3:F:42:THR:CG2	2.49	0.54
1:G:305:ILE:HG22	1:G:312:TYR:CE2	2.42	0.54
1:G:404:PRO:CG	1:G:417:GLU:HG3	2.38	0.54
1:G:493:HIS:ND1	1:G:514:ASP:OD2	2.41	0.54
1:G:556:ASP:OD2	4:X:44:MET:HG3	2.08	0.54
1:G:557:GLU:CB	4:X:47:MET:C	2.50	0.54
1:G:794:CYS:O	1:G:798:LEU:N	2.37	0.54
1:J:22:LYS:O	1:J:26:GLU:HG3	2.07	0.54
1:J:126:VAL:HG13	1:J:675:ILE:HG22	1.90	0.54
1:J:218:LEU:CD2	1:J:222:ILE:CG1	2.86	0.54
1:J:493:HIS:ND1	1:J:514:ASP:OD2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:796:GLY:N	3:L:35:ARG:CZ	2.71	0.54
1:M:571:ALA:O	1:M:572:LYS:CB	2.56	0.54
1:S:103:LEU:C	1:S:103:LEU:HD12	2.33	0.54
1:S:791:GLN:O	1:S:794:CYS:HB2	2.08	0.54
1:S:804:ARG:O	1:S:807:VAL:CB	2.55	0.54
4:1:287:ILE:HB	4:3:203:THR:CA	2.38	0.54
1:A:38:VAL:CB	1:A:52:ILE:HD11	2.38	0.54
1:A:295:MLY:CD	1:A:332:MET:HE2	2.37	0.54
1:A:793:ARG:CZ	3:C:147:MET:HE3	2.27	0.54
1:A:813:ILE:HG12	2:B:128:PHE:HE1	1.71	0.54
1:D:507:GLY:O	1:D:761:GLY:CA	2.55	0.54
1:D:765:VAL:HG12	1:D:766:PHE:N	2.22	0.54
1:G:830:PRO:HB2	2:H:67:MET:HE2	1.84	0.54
1:J:571:ALA:O	1:J:572:LYS:CB	2.56	0.54
1:J:791:GLN:O	1:J:794:CYS:HB2	2.08	0.54
1:M:126:VAL:HG13	1:M:675:ILE:HG22	1.90	0.54
1:S:538:GLU:HG3	4:2:352:PHE:CA	2.38	0.54
2:T:146:GLY:O	2:T:147:ASN:ND2	2.41	0.54
3:U:52:ASN:HB2	3:U:53:PRO:CD	2.28	0.54
2:B:156:VAL:HA	2:B:159:HIS:O	2.07	0.54
1:D:126:VAL:HG13	1:D:675:ILE:HG22	1.90	0.54
1:D:493:HIS:ND1	1:D:514:ASP:OD2	2.41	0.54
1:D:642:LYS:CG	4:9:22:ALA:CA	2.80	0.54
1:D:769:ALA:CA	1:D:771:LEU:CA	2.21	0.54
1:G:135:TYR:HD2	1:G:191:ARG:HG2	1.72	0.54
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	0.54
1:J:723:ARG:HH11	1:J:723:ARG:CG	2.20	0.54
2:K:146:GLY:O	2:K:147:ASN:ND2	2.41	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CE2	2.43	0.54
1:S:404:PRO:CG	1:S:417:GLU:HG3	2.38	0.54
1:S:530:MET:HA	4:2:354:GLN:CD	2.11	0.54
1:S:630:ALA:HA	4:2:25:ASP:OD2	2.07	0.54
1:S:795:ARG:NE	3:U:43:ASN:OD1	2.39	0.54
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.54
2:B:146:GLY:O	2:B:147:ASN:ND2	2.41	0.54
1:D:553:MLY:O	4:W:48:GLY:CA	2.56	0.54
1:D:638:GLY:HA2	4:9:345:ILE:H	1.72	0.54
1:G:642:LYS:CG	4:V:22:ALA:HA	2.37	0.54
1:J:757:GLN:CA	1:J:776:GLU:CG	2.74	0.54
2:K:114:LYS:O	2:K:147:ASN:ND2	2.41	0.54
1:M:642:LYS:CG	4:Z:22:ALA:HA	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:638:GLY:HA2	4:8:345:ILE:H	1.72	0.53
1:A:831:TRP:CG	2:B:51:PHE:CE1	2.96	0.53
1:G:795:ARG:CZ	3:I:116:GLU:OE2	2.56	0.53
1:J:215:GLN:CA	1:J:340:ILE:CG2	2.63	0.53
1:M:32:PHE:CD1	1:M:83:PRO:HD3	2.44	0.53
1:M:38:VAL:CB	1:M:52:ILE:HD11	2.38	0.53
1:M:103:LEU:HD12	1:M:103:LEU:C	2.33	0.53
1:M:135:TYR:HD2	1:M:191:ARG:HG2	1.72	0.53
1:S:32:PHE:CD1	1:S:83:PRO:HD3	2.43	0.53
1:S:92:ALA:O	1:S:714:ARG:CD	2.52	0.53
1:S:541:MET:SD	4:2:346:LEU:O	2.48	0.53
1:S:802:GLU:OE2	1:S:809:ARG:NH1	2.41	0.53
4:1:148:THR:OG1	4:3:45:VAL:CG2	2.56	0.53
4:1:185:LEU:HD23	4:1:306:TYR:OH	2.09	0.53
4:3:185:LEU:HD23	4:3:306:TYR:OH	2.09	0.53
4:5:185:LEU:HD23	4:5:306:TYR:OH	2.09	0.53
4:W:291:LYS:HD2	4:Y:243:PRO:CB	2.38	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HD3	1.74	0.53
1:D:571:ALA:O	1:D:572:LYS:CB	2.56	0.53
1:D:642:LYS:HA	4:9:22:ALA:C	2.33	0.53
1:G:295:MLY:CD	1:G:332:MET:HE2	2.38	0.53
1:G:418:THR:CB	1:G:421:GLU:HG3	2.37	0.53
1:J:38:VAL:CB	1:J:52:ILE:HD11	2.38	0.53
1:J:135:TYR:HD2	1:J:191:ARG:HD3	1.73	0.53
1:J:756:THR:CG2	1:J:776:GLU:CB	2.81	0.53
1:M:493:HIS:ND1	1:M:514:ASP:OD2	2.41	0.53
1:M:791:GLN:O	1:M:794:CYS:HB2	2.08	0.53
1:M:795:ARG:HD2	3:O:35:ARG:HH12	1.72	0.53
1:S:135:TYR:HD2	1:S:191:ARG:HD3	1.73	0.53
1:S:765:VAL:HG12	1:S:766:PHE:N	2.22	0.53
3:U:92:ARG:HA	3:U:139:TYR:OH	2.08	0.53
1:A:505:MLY:HB2	1:A:761:GLY:HA2	1.89	0.53
2:B:130:PRO:O	2:B:131:GLU:C	2.52	0.53
3:C:92:ARG:HA	3:C:139:TYR:OH	2.08	0.53
1:D:154:HIS:CE1	1:D:156:PHE:HD2	2.26	0.53
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	0.53
1:D:724:TYR:CE1	1:D:779:ARG:HA	2.43	0.53
1:D:791:GLN:CD	3:F:115:GLY:HA3	2.16	0.53
1:D:791:GLN:OE1	3:F:116:GLU:N	2.41	0.53
2:H:146:GLY:O	2:H:147:ASN:ND2	2.41	0.53
1:J:638:GLY:HA2	4:W:345:ILE:H	1.72	0.53

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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	0.53
1:M:135:TYR:HD2	1:M:191:ARG:HD3	1.73	0.53
1:M:576:GLU:CG	1:M:577:ALA:N	2.44	0.53
1:M:759:ALA:O	1:M:766:PHE:N	2.32	0.53
1:S:51:THR:C	1:S:62:VAL:HG13	2.32	0.53
1:S:93:MET:CE	1:S:764:MLY:CG	2.85	0.53
1:S:305:ILE:HG22	1:S:312:TYR:CE2	2.43	0.53
1:S:661:MET:O	1:S:665:ARG:HG3	2.09	0.53
4:9:185:LEU:HD23	4:9:306:TYR:OH	2.09	0.53
1:A:404:PRO:CG	1:A:417:GLU:HG3	2.38	0.53
1:A:541:MET:SD	4:8:346:LEU:O	2.49	0.53
1:A:553:MLY:O	4:V:48:GLY:CA	2.56	0.53
1:A:630:ALA:HA	4:8:25:ASP:OD2	2.07	0.53
1:A:661:MET:O	1:A:665:ARG:HG3	2.09	0.53
1:D:834:LEU:HD21	2:E:54:MET:HG3	1.90	0.53
2:E:163:ALA:O	2:K:21:GLU:C	2.49	0.53
1:G:32:PHE:CD1	1:G:83:PRO:HD3	2.44	0.53
1:G:84:MLY:HD3	1:G:723:ARG:CD	2.25	0.53
1:G:584:TYR:CD1	1:G:585:ALA:N	2.77	0.53
1:G:831:TRP:HZ3	2:H:34:ILE:HG21	1.73	0.53
2:H:114:LYS:O	2:H:147:ASN:ND2	2.41	0.53
3:I:46:ILE:O	3:I:50:LEU:CG	2.47	0.53
1:J:84:MLY:CH1	1:J:724:TYR:CE2	2.91	0.53
1:J:98:HIS:HB3	1:J:100:PRO:CD	2.25	0.53
1:J:210:GLN:C	1:J:211:SER:HG	2.15	0.53
1:J:277:PHE:CG	1:J:278:GLN:N	2.76	0.53
1:J:404:PRO:CG	1:J:417:GLU:HG3	2.38	0.53
1:M:84:MLY:CH1	1:M:715:VAL:HG21	2.36	0.53
1:M:218:LEU:N	1:M:221:GLN:HG2	2.24	0.53
1:M:277:PHE:CG	1:M:278:GLN:N	2.76	0.53
1:S:126:VAL:HG13	1:S:675:ILE:HG22	1.90	0.53
1:S:493:HIS:ND1	1:S:514:ASP:OD2	2.41	0.53
1:S:793:ARG:NH1	3:U:40:ASN:CG	2.55	0.53
4:1:324:THR:OG1	4:3:244:ASP:N	2.41	0.53
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	0.53
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.53
1:A:642:LYS:HG2	4:8:21:PHE:C	2.30	0.53
2:B:121:LEU:CA	2:B:128:PHE:CG	2.89	0.53
1:D:612:GLN:HE22	1:D:627:GLY:HA2	1.66	0.53
1:D:661:MET:O	1:D:665:ARG:HG3	2.09	0.53
1:D:791:GLN:O	1:D:794:CYS:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:839:MLY:HH11	2:E:159:HIS:HD2	1.73	0.53
1:G:10:PHE:O	1:G:12:GLU:N	2.41	0.53
3:I:92:ARG:HA	3:I:139:TYR:OH	2.09	0.53
1:J:661:MET:O	1:J:665:ARG:HG3	2.09	0.53
1:M:553:MLY:O	4:2:48:GLY:CA	2.56	0.53
1:M:584:TYR:CD1	1:M:585:ALA:N	2.77	0.53
1:M:753:VAL:HG11	1:M:775:LEU:CD1	2.37	0.53
1:M:796:GLY:CA	3:O:35:ARG:HD3	2.30	0.53
2:N:114:LYS:O	2:N:147:ASN:ND2	2.42	0.53
1:S:642:LYS:CG	4:2:22:ALA:HA	2.37	0.53
1:S:646:PHE:CD2	1:S:652:LEU:CD1	2.85	0.53
1:S:723:ARG:HH11	1:S:723:ARG:CG	2.20	0.53
1:S:730:SER:HB2	3:U:94:PHE:CE2	2.44	0.53
4:3:288:ASP:OD2	4:5:203:THR:CB	2.56	0.53
4:4:288:ASP:OD2	4:6:203:THR:CB	2.56	0.53
1:A:576:GLU:CG	1:A:577:ALA:N	2.43	0.53
1:D:584:TYR:CD1	1:D:585:ALA:N	2.77	0.53
2:E:114:LYS:O	2:E:147:ASN:ND2	2.41	0.53
1:G:295:MLY:CG	1:G:332:MET:HE2	2.36	0.53
1:G:817:GLN:CD	2:H:127:ARG:CB	2.81	0.53
1:J:529:PRO:HB2	4:W:354:GLN:HA	1.91	0.53
1:J:538:GLU:HG3	4:W:352:PHE:CA	2.38	0.53
1:J:732:ILE:HG23	1:J:747:LEU:CD1	1.05	0.53
1:J:829:TRP:CE2	2:K:87:LYS:CE	2.85	0.53
2:K:144:VAL:HG12	2:K:153:ILE:HD11	1.75	0.53
1:M:51:THR:C	1:M:62:VAL:HG13	2.33	0.53
1:M:720:PHE:HZ	1:M:772:LEU:HD11	1.70	0.53
2:N:114:LYS:N	2:N:146:GLY:O	2.40	0.53
1:S:38:VAL:CB	1:S:52:ILE:HD11	2.38	0.53
1:S:636:LYS:HB2	4:2:334:GLU:OE1	2.09	0.53
1:S:638:GLY:HA2	4:2:345:ILE:H	1.72	0.53
1:S:803:TYR:HE2	3:U:17:PHE:CZ	2.22	0.53
4:2:166:TYR:CZ	4:4:64:ILE:CG2	2.86	0.53
4:W:185:LEU:HD23	4:W:306:TYR:OH	2.09	0.53
4:X:324:THR:HB	4:Z:247:VAL:N	2.22	0.53
1:A:42:HIS:HB3	1:A:45:GLN:O	2.09	0.53
1:A:571:ALA:O	1:A:572:LYS:CB	2.56	0.53
1:A:642:LYS:HA	4:8:22:ALA:C	2.33	0.53
1:A:797:PHE:CD1	3:C:146:ILE:C	2.87	0.53
1:D:404:PRO:CG	1:D:417:GLU:HG3	2.38	0.53
1:D:404:PRO:HG3	1:D:417:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:GLU:HG3	4:9:352:PHE:CA	2.38	0.53
2:E:146:GLY:O	2:E:147:ASN:ND2	2.41	0.53
1:G:636:LYS:HB2	4:V:334:GLU:OE1	2.09	0.53
1:G:791:GLN:O	1:G:794:CYS:HB2	2.08	0.53
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	0.53
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.53
2:K:130:PRO:O	2:K:131:GLU:C	2.52	0.53
1:M:154:HIS:CE1	1:M:156:PHE:HD2	2.26	0.53
1:M:529:PRO:HB2	4:Z:354:GLN:HA	1.91	0.53
1:M:638:GLY:HA2	4:Z:345:ILE:H	1.72	0.53
1:M:783:LEU:CA	1:M:786:ILE:CG1	2.30	0.53
1:A:538:GLU:HG3	4:8:352:PHE:CA	2.39	0.53
1:A:584:TYR:CD1	1:A:585:ALA:N	2.77	0.53
1:D:109:ARG:O	1:D:114:MET:N	2.37	0.53
1:D:135:TYR:CD2	1:D:191:ARG:HG2	2.44	0.53
1:D:506:GLU:O	1:D:762:HIS:CA	2.57	0.53
1:D:723:ARG:NH2	1:D:779:ARG:HH21	2.06	0.53
1:D:814:PHE:HE1	2:E:127:ARG:CZ	2.22	0.53
1:G:251:ARG:HB2	1:G:264:ASP:HB2	1.91	0.53
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	0.53
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.53
1:J:135:TYR:CD2	1:J:191:ARG:HG2	2.44	0.53
1:J:206:LYS:HD2	1:J:217:THR:CG2	2.17	0.53
1:J:831:TRP:HZ3	2:K:34:ILE:CD1	2.20	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
1:M:107:MLY:CB	1:M:686:MET:HE2	2.32	0.53
1:M:251:ARG:HB2	1:M:264:ASP:HB2	1.91	0.53
1:M:404:PRO:CG	1:M:417:GLU:HG3	2.38	0.53
1:M:661:MET:O	1:M:665:ARG:HG3	2.09	0.53
3:O:92:ARG:HA	3:O:139:TYR:OH	2.08	0.53
1:S:571:ALA:O	1:S:572:LYS:CB	2.56	0.53
1:S:752:ASP:H	1:S:779:ARG:NH2	2.05	0.53
1:S:791:GLN:NE2	3:U:115:GLY:CA	2.38	0.53
4:V:324:THR:HG22	4:X:247:VAL:HG13	1.91	0.53
1:A:418:THR:CB	1:A:421:GLU:HG3	2.37	0.53
1:A:553:MLY:HG3	4:V:44:MET:O	2.07	0.53
1:A:642:LYS:CG	4:8:22:ALA:HA	2.38	0.53
1:A:759:ALA:O	1:A:766:PHE:N	2.32	0.53
1:D:32:PHE:CD1	1:D:83:PRO:HD3	2.43	0.53
1:D:732:ILE:H	1:D:733:PRO:HD2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:CG	3:F:35:ARG:HH12	2.21	0.53
1:G:538:GLU:HG3	4:V:352:PHE:CA	2.38	0.53
1:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.53
1:G:789:ALA:CB	3:I:81:GLN:CD	2.82	0.53
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.53
1:J:154:HIS:CE1	1:J:156:PHE:HD2	2.26	0.53
1:J:584:TYR:CD1	1:J:585:ALA:N	2.77	0.53
1:J:795:ARG:O	3:L:35:ARG:NH2	2.40	0.53
1:M:556:ASP:HB3	4:2:43:VAL:HG12	1.91	0.53
1:S:218:LEU:N	1:S:221:GLN:HG2	2.24	0.53
1:S:418:THR:CB	1:S:421:GLU:HG3	2.37	0.53
1:S:584:TYR:CD1	1:S:585:ALA:N	2.77	0.53
4:1:288:ASP:H	4:3:203:THR:HG22	1.69	0.53
4:3:287:ILE:HG23	4:5:202:THR:HB	0.99	0.53
4:7:185:LEU:HD23	4:7:306:TYR:OH	2.09	0.53
4:Y:185:LEU:HD23	4:Y:306:TYR:OH	2.09	0.53
1:A:154:HIS:CE1	1:A:156:PHE:HD2	2.26	0.53
1:A:218:LEU:N	1:A:221:GLN:HG2	2.23	0.53
1:A:579:PHE:CD2	1:A:592:ILE:HD11	2.40	0.53
1:A:791:GLN:O	1:A:794:CYS:HB2	2.08	0.53
1:D:529:PRO:HB2	4:9:354:GLN:HA	1.91	0.53
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.53
3:F:92:ARG:HA	3:F:139:TYR:OH	2.08	0.53
1:G:42:HIS:HB3	1:G:45:GLN:O	2.09	0.53
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	0.53
1:G:530:MET:HA	4:V:354:GLN:CD	2.11	0.53
1:J:32:PHE:CD1	1:J:83:PRO:HD3	2.43	0.53
1:J:649:VAL:CG1	1:J:649:VAL:HA	2.35	0.53
1:J:733:PRO:O	1:J:737:PHE:CE1	2.53	0.53
1:J:819:ASN:OD1	2:K:91:ALA:C	2.51	0.53
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.53
1:M:42:HIS:HB3	1:M:45:GLN:O	2.09	0.53
2:N:130:PRO:O	2:N:131:GLU:C	2.52	0.53
1:S:491:PHE:HD1	1:S:671:PHE:CE2	2.27	0.53
1:S:732:ILE:H	1:S:733:PRO:HD2	1.74	0.53
1:S:799:MET:SD	3:U:32:ASP:HB3	2.49	0.53
4:1:324:THR:CG2	4:3:244:ASP:CA	2.86	0.53
4:2:167:GLU:OE1	4:4:43:VAL:O	2.27	0.53
1:A:156:PHE:HD1	1:A:195:TYR:CD1	2.27	0.52
1:A:214:MET:C	1:A:340:ILE:CD1	2.82	0.52
1:A:355:THR:OG1	1:A:437:MET:HE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:PRO:HB2	4:8:354:GLN:HA	1.91	0.52
1:A:556:ASP:HB3	4:V:43:VAL:HG12	1.91	0.52
3:C:49:ILE:CA	3:C:52:ASN:ND2	2.53	0.52
3:C:53:PRO:HB2	3:C:55:LYS:HG3	1.91	0.52
3:C:104:GLY:HA2	3:C:137:ILE:HD11	1.91	0.52
1:D:135:TYR:HD2	1:D:191:ARG:HD3	1.73	0.52
2:E:114:LYS:HA	2:E:147:ASN:HD22	1.74	0.52
1:G:404:PRO:HG3	1:G:417:GLU:HG3	1.91	0.52
3:I:53:PRO:HB2	3:I:55:LYS:HG3	1.91	0.52
1:J:817:GLN:OE1	2:K:127:ARG:CD	2.54	0.52
1:M:95:THR:CA	1:M:713:SER:OG	2.49	0.52
1:M:135:TYR:CD2	1:M:191:ARG:HG2	2.44	0.52
1:M:404:PRO:HG3	1:M:417:GLU:HG3	1.91	0.52
1:M:640:LYS:C	1:M:645:SER:HG	2.14	0.52
1:M:800:ARG:HH22	3:O:40:ASN:CG	2.17	0.52
1:M:821:ARG:NH1	2:N:127:ARG:NE	2.57	0.52
1:M:836:PHE:CD2	2:N:160:GLY:CA	2.91	0.52
1:M:838:ILE:C	1:M:840:PRO:HD2	2.35	0.52
1:S:42:HIS:HB3	1:S:45:GLN:O	2.09	0.52
1:S:135:TYR:CD2	1:S:191:ARG:HG2	2.44	0.52
1:S:214:MET:C	1:S:340:ILE:CD1	2.82	0.52
1:S:251:ARG:HB2	1:S:264:ASP:HB2	1.91	0.52
1:S:529:PRO:HB2	4:2:354:GLN:HA	1.91	0.52
1:S:734:GLU:OE2	3:U:94:PHE:CD2	2.62	0.52
1:S:749:GLY:HA3	3:U:93:VAL:HG23	1.89	0.52
1:S:838:ILE:C	1:S:840:PRO:HD2	2.34	0.52
2:T:114:LYS:O	2:T:147:ASN:ND2	2.41	0.52
4:2:185:LEU:HD23	4:2:306:TYR:OH	2.09	0.52
4:X:287:ILE:CG2	4:Z:201:VAL:CG2	2.85	0.52
3:C:110:VAL:HG13	3:C:114:LEU:HD12	1.92	0.52
1:D:42:HIS:HB3	1:D:45:GLN:O	2.09	0.52
1:D:218:LEU:N	1:D:221:GLN:HG2	2.24	0.52
1:D:556:ASP:HB3	4:W:43:VAL:HG12	1.91	0.52
1:G:63:MLY:HG3	1:G:64:THR:H	1.75	0.52
1:G:135:TYR:CD2	1:G:191:ARG:HG2	2.44	0.52
1:J:156:PHE:HD1	1:J:195:TYR:CD1	2.27	0.52
1:J:404:PRO:HG3	1:J:417:GLU:HG3	1.91	0.52
3:L:110:VAL:HG13	3:L:114:LEU:HD12	1.92	0.52
1:S:154:HIS:CE1	1:S:156:PHE:HD2	2.26	0.52
1:S:232:PHE:CE1	1:S:287:ILE:HD13	2.44	0.52
4:6:180:LEU:HD22	4:6:267:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:180:LEU:HD22	4:8:267:ILE:HD11	1.92	0.52
1:A:135:TYR:CD2	1:A:191:ARG:HG2	2.44	0.52
1:A:251:ARG:HB2	1:A:264:ASP:HB2	1.91	0.52
1:A:754:ASP:CG	1:A:778:MET:HE1	2.33	0.52
1:A:796:GLY:HA3	3:C:40:ASN:OD1	2.09	0.52
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	0.52
1:D:214:MET:C	1:D:340:ILE:CD1	2.82	0.52
1:D:636:LYS:HB2	4:9:334:GLU:OE1	2.09	0.52
1:G:84:MLY:HH12	1:G:715:VAL:CG2	2.39	0.52
1:G:154:HIS:CE1	1:G:156:PHE:HD2	2.27	0.52
1:G:218:LEU:N	1:G:221:GLN:HG2	2.24	0.52
1:G:838:ILE:C	1:G:840:PRO:HD2	2.34	0.52
1:J:51:THR:C	1:J:62:VAL:HG13	2.32	0.52
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	0.52
1:J:838:ILE:C	1:J:840:PRO:HD2	2.35	0.52
1:M:109:ARG:HD3	1:M:117:THR:HB	1.92	0.52
1:M:156:PHE:HD1	1:M:195:TYR:CD1	2.27	0.52
1:M:555:TYR:N	4:2:48:GLY:N	2.58	0.52
1:S:404:PRO:HG3	1:S:417:GLU:HG3	1.91	0.52
2:T:130:PRO:O	2:T:131:GLU:C	2.52	0.52
4:1:247:VAL:HG13	4:Y:324:THR:HG22	1.91	0.52
4:1:285:CYS:O	4:1:290:ARG:NH1	2.43	0.52
4:1:324:THR:OG1	4:3:244:ASP:HA	2.09	0.52
4:4:180:LEU:HD22	4:4:267:ILE:HD11	1.92	0.52
4:9:180:LEU:HD22	4:9:267:ILE:HD11	1.92	0.52
4:X:185:LEU:HD23	4:X:306:TYR:OH	2.09	0.52
4:Z:185:LEU:HD23	4:Z:306:TYR:OH	2.09	0.52
1:A:218:LEU:CD2	1:A:222:ILE:CG1	2.85	0.52
1:D:251:ARG:HB2	1:D:264:ASP:HB2	1.91	0.52
1:D:555:TYR:N	4:W:48:GLY:N	2.58	0.52
1:D:712:PRO:CG	1:D:771:LEU:HD13	2.39	0.52
1:G:214:MET:C	1:G:340:ILE:CD1	2.82	0.52
1:G:529:PRO:HB2	4:V:354:GLN:HA	1.92	0.52
1:G:732:ILE:H	1:G:733:PRO:CD	2.23	0.52
1:G:818:TYR:CE1	2:H:127:ARG:NH1	2.48	0.52
2:H:129:THR:O	2:H:133:ILE:HG13	2.09	0.52
1:J:84:MLY:HH12	1:J:715:VAL:CG2	2.39	0.52
1:J:197:ALA:O	1:J:201:ALA:HB2	2.10	0.52
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.52
1:J:218:LEU:N	1:J:221:GLN:HG2	2.24	0.52
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:121:LEU:CA	2:K:128:PHE:CG	2.89	0.52
3:L:104:GLY:HA2	3:L:137:ILE:HD11	1.92	0.52
1:M:63:MLY:HG3	1:M:64:THR:H	1.75	0.52
1:M:214:MET:C	1:M:340:ILE:CD1	2.82	0.52
1:M:232:PHE:CE1	1:M:287:ILE:HD13	2.45	0.52
1:M:491:PHE:HD1	1:M:671:PHE:CE2	2.27	0.52
1:M:832:MET:SD	2:N:84:PHE:HE2	2.31	0.52
1:S:156:PHE:HD1	1:S:195:TYR:CD1	2.27	0.52
1:S:355:THR:OG1	1:S:437:MET:HE1	2.10	0.52
4:5:180:LEU:HD22	4:5:267:ILE:HD11	1.92	0.52
4:V:185:LEU:HD23	4:V:306:TYR:OH	2.09	0.52
4:W:285:CYS:O	4:W:290:ARG:NH1	2.43	0.52
4:X:180:LEU:HD22	4:X:267:ILE:HD11	1.92	0.52
1:A:838:ILE:C	1:A:840:PRO:HD2	2.35	0.52
1:D:41:VAL:HG13	1:D:42:HIS:N	2.25	0.52
1:D:128:PRO:O	1:D:129:TYR:HB2	2.09	0.52
1:D:277:PHE:CG	1:D:278:GLN:N	2.76	0.52
1:G:40:VAL:HG13	1:G:41:VAL:O	2.10	0.52
1:G:135:TYR:HD2	1:G:191:ARG:HD3	1.73	0.52
1:G:798:LEU:CG	3:I:122:GLU:HB3	2.40	0.52
1:G:818:TYR:CG	2:H:127:ARG:NH1	2.77	0.52
1:J:42:HIS:HB3	1:J:45:GLN:O	2.09	0.52
1:J:553:MLY:HH12	4:Y:45:VAL:CG1	2.30	0.52
1:J:732:ILE:H	1:J:733:PRO:CD	2.23	0.52
2:K:114:LYS:N	2:K:146:GLY:O	2.40	0.52
1:M:418:THR:CB	1:M:421:GLU:HG3	2.37	0.52
1:M:831:TRP:NE1	2:N:67:MET:HB3	2.24	0.52
1:S:753:VAL:HG22	1:S:779:ARG:CZ	2.38	0.52
4:5:285:CYS:O	4:5:290:ARG:NH1	2.43	0.52
4:7:285:CYS:O	4:7:290:ARG:NH1	2.43	0.52
4:9:287:ILE:HG22	4:W:204:ALA:HB3	1.91	0.52
4:V:180:LEU:HD22	4:V:267:ILE:HD11	1.92	0.52
4:X:285:CYS:O	4:X:290:ARG:NH1	2.43	0.52
4:Z:180:LEU:HD22	4:Z:267:ILE:HD11	1.92	0.52
1:A:232:PHE:CE1	1:A:287:ILE:HD13	2.44	0.52
1:D:63:MLY:HG3	1:D:64:THR:H	1.75	0.52
1:D:355:THR:OG1	1:D:437:MET:HE1	2.10	0.52
1:D:795:ARG:HD2	3:F:43:ASN:OD1	1.95	0.52
1:D:800:ARG:HD3	3:F:149:VAL:O	2.08	0.52
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.52
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:232:PHE:CE1	1:G:287:ILE:HD13	2.45	0.52
1:G:732:ILE:HG23	1:G:747:LEU:CD1	1.04	0.52
4:2:204:ALA:HB2	4:Z:288:ASP:CA	2.32	0.52
4:2:285:CYS:O	4:2:290:ARG:NH1	2.43	0.52
4:3:285:CYS:O	4:3:290:ARG:NH1	2.43	0.52
4:7:180:LEU:HD22	4:7:267:ILE:HD11	1.92	0.52
4:W:180:LEU:HD22	4:W:267:ILE:HD11	1.92	0.52
4:W:324:THR:HG22	4:Y:247:VAL:HG13	1.91	0.52
4:Z:285:CYS:O	4:Z:290:ARG:NH1	2.43	0.52
1:A:41:VAL:HG13	1:A:42:HIS:N	2.25	0.52
1:A:109:ARG:HD3	1:A:117:THR:HB	1.92	0.52
1:A:128:PRO:O	1:A:129:TYR:HB2	2.10	0.52
1:D:103:LEU:C	1:D:103:LEU:HD12	2.33	0.52
1:D:494:HIS:O	1:D:498:LEU:HB2	2.09	0.52
1:D:538:GLU:HA	4:9:349:LEU:CB	2.40	0.52
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.92	0.52
1:G:355:THR:OG1	1:G:437:MET:HE1	2.10	0.52
1:G:661:MET:O	1:G:665:ARG:HG3	2.09	0.52
1:G:739:ASP:CB	1:G:742:LYS:CB	2.81	0.52
2:H:114:LYS:N	2:H:146:GLY:O	2.40	0.52
3:I:104:GLY:HA2	3:I:137:ILE:HD11	1.92	0.52
1:J:63:MLY:HG3	1:J:64:THR:H	1.75	0.52
1:J:251:ARG:HB2	1:J:264:ASP:HB2	1.91	0.52
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	0.52
2:K:139:ALA:C	2:K:141:PRO:HD3	2.33	0.52
1:M:494:HIS:O	1:M:498:LEU:HB2	2.09	0.52
1:M:636:LYS:HB2	4:Z:334:GLU:OE1	2.09	0.52
2:N:114:LYS:HA	2:N:147:ASN:HD22	1.74	0.52
3:O:53:PRO:HB2	3:O:55:LYS:HG3	1.91	0.52
1:S:795:ARG:HE	3:U:116:GLU:HB3	1.74	0.52
1:S:805:ALA:O	1:S:809:ARG:CA	2.57	0.52
4:2:180:LEU:HD22	4:2:267:ILE:HD11	1.92	0.52
4:4:185:LEU:HD23	4:4:306:TYR:OH	2.09	0.52
4:6:185:LEU:HD23	4:6:306:TYR:OH	2.09	0.52
4:7:287:ILE:HG22	4:9:204:ALA:HB3	1.91	0.52
4:9:285:CYS:O	4:9:290:ARG:NH1	2.43	0.52
4:X:291:LYS:CG	4:Z:243:PRO:C	2.74	0.52
4:Y:180:LEU:HD22	4:Y:267:ILE:HD11	1.92	0.52
1:A:277:PHE:CG	1:A:278:GLN:N	2.76	0.52
1:A:530:MET:HG2	4:8:354:GLN:HB2	0.57	0.52
1:A:538:GLU:HA	4:8:349:LEU:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:LYS:HB2	4:8:334:GLU:OE1	2.08	0.52
1:A:817:GLN:NE2	2:B:127:ARG:HE	2.06	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
2:E:129:THR:O	2:E:133:ILE:HG13	2.09	0.52
1:G:277:PHE:CG	1:G:278:GLN:N	2.76	0.52
1:G:579:PHE:CD2	1:G:592:ILE:HD11	2.40	0.52
1:J:214:MET:C	1:J:340:ILE:CD1	2.82	0.52
1:J:829:TRP:HZ3	2:K:84:PHE:CE1	2.23	0.52
1:J:829:TRP:HZ2	2:K:83:MET:CE	2.21	0.52
1:M:93:MET:CE	1:M:764:MLY:CH1	2.87	0.52
1:M:408:VAL:CG1	4:Z:332:PRO:HB3	2.40	0.52
1:M:481:ASN:N	1:M:481:ASN:ND2	2.51	0.52
1:M:538:GLU:HA	4:Z:349:LEU:CB	2.40	0.52
1:M:782:MLY:O	1:M:786:ILE:HG13	2.10	0.52
2:N:137:TRP:CA	2:N:145:ALA:CB	2.82	0.52
1:S:63:MLY:HG3	1:S:64:THR:H	1.75	0.52
1:S:90:ASP:OD1	1:S:764:MLY:CH1	2.58	0.52
1:S:795:ARG:HD2	3:U:43:ASN:CG	2.10	0.52
1:S:831:TRP:NE1	2:T:67:MET:CG	2.73	0.52
1:S:836:PHE:CD2	2:T:160:GLY:N	2.76	0.52
3:U:110:VAL:HG13	3:U:114:LEU:HD12	1.92	0.52
4:1:180:LEU:HD22	4:1:267:ILE:HD11	1.92	0.52
4:8:185:LEU:HD23	4:8:306:TYR:OH	2.09	0.52
1:A:135:TYR:HD2	1:A:191:ARG:CD	2.23	0.52
1:A:491:PHE:HD1	1:A:671:PHE:CE2	2.27	0.52
1:D:221:GLN:HB2	1:D:449:LEU:HD11	1.92	0.52
1:D:732:ILE:HG23	1:D:747:LEU:CD1	1.04	0.52
1:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.52
1:G:599:ASN:CG	1:G:649:VAL:CB	2.80	0.52
1:G:732:ILE:H	1:G:733:PRO:HD2	1.74	0.52
1:G:796:GLY:N	3:I:35:ARG:CZ	2.73	0.52
1:J:355:THR:OG1	1:J:437:MET:HE1	2.10	0.52
1:M:629:GLU:CA	1:M:643:GLY:C	2.73	0.52
1:M:798:LEU:HD11	3:O:126:LEU:HG	1.81	0.52
1:M:819:ASN:OD1	2:N:90:GLY:O	2.26	0.52
1:M:836:PHE:HE1	2:N:158:THR:O	1.93	0.52
1:S:197:ALA:O	1:S:201:ALA:HB2	2.09	0.52
1:S:332:MET:O	1:S:336:SER:OG	2.27	0.52
2:T:129:THR:O	2:T:133:ILE:HG13	2.09	0.52
3:U:104:GLY:HA2	3:U:137:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:204:ALA:HB3	4:Z:287:ILE:HG22	1.91	0.52
4:3:180:LEU:HD22	4:3:267:ILE:HD11	1.92	0.52
4:8:285:CYS:O	4:8:290:ARG:NH1	2.43	0.52
1:A:40:VAL:HG13	1:A:41:VAL:O	2.10	0.52
1:A:221:GLN:HB2	1:A:449:LEU:HD11	1.92	0.52
1:A:404:PRO:HG3	1:A:417:GLU:HG3	1.91	0.52
1:D:109:ARG:HD3	1:D:117:THR:HB	1.92	0.52
1:D:195:TYR:CE2	1:D:199:ILE:CD1	2.93	0.52
1:G:197:ALA:O	1:G:201:ALA:HB2	2.09	0.52
1:G:494:HIS:O	1:G:498:LEU:HB2	2.09	0.52
1:G:649:VAL:HA	1:G:649:VAL:HG23	1.83	0.52
1:G:813:ILE:HG23	2:H:128:PHE:HZ	1.71	0.52
2:H:114:LYS:HA	2:H:147:ASN:HD22	1.75	0.52
3:I:49:ILE:CA	3:I:52:ASN:ND2	2.53	0.52
1:J:128:PRO:O	1:J:129:TYR:HB2	2.10	0.52
1:J:221:GLN:HB2	1:J:449:LEU:HD11	1.92	0.52
1:J:795:ARG:CZ	3:L:116:GLU:OE2	2.39	0.52
1:S:218:LEU:CD2	1:S:222:ILE:CG1	2.86	0.52
1:S:221:GLN:HB2	1:S:449:LEU:HD11	1.92	0.52
1:S:552:ASN:H	4:4:49:GLN:HB2	1.75	0.52
4:3:167:GLU:OE1	4:5:44:MET:HA	2.10	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	0.51
1:A:546:THR:CG2	1:A:548:THR:HB	2.41	0.51
1:A:646:PHE:CE2	1:A:652:LEU:CD2	2.87	0.51
2:B:139:ALA:C	2:B:141:PRO:HD3	2.33	0.51
1:D:41:VAL:HG21	1:D:76:GLN:HG3	1.92	0.51
1:D:197:ALA:O	1:D:201:ALA:HB2	2.10	0.51
1:D:725:ARG:O	1:D:729:ALA:HA	2.10	0.51
1:G:135:TYR:HD2	1:G:191:ARG:CD	2.23	0.51
1:G:221:GLN:HB2	1:G:449:LEU:HD11	1.93	0.51
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.51
1:J:41:VAL:HG13	1:J:42:HIS:N	2.25	0.51
1:J:798:LEU:HD22	3:L:118:MET:SD	2.50	0.51
1:M:22:LYS:O	1:M:26:GLU:N	2.30	0.51
1:M:40:VAL:HG13	1:M:41:VAL:O	2.10	0.51
1:M:592:ILE:HG22	1:M:592:ILE:O	2.10	0.51
1:M:725:ARG:O	1:M:729:ALA:HA	2.10	0.51
1:M:798:LEU:CG	3:O:126:LEU:HD11	2.39	0.51
1:M:804:ARG:C	1:M:808:GLU:H	2.09	0.51
1:S:40:VAL:HG13	1:S:41:VAL:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:292:MET:HE2	1:S:309:PRO:HD3	1.93	0.51
1:S:408:VAL:CG1	4:2:332:PRO:HB3	2.40	0.51
1:S:797:PHE:HE2	3:U:146:ILE:HD12	1.60	0.51
4:Y:285:CYS:O	4:Y:290:ARG:NH1	2.43	0.51
1:A:212:GLY:O	1:A:213:LYS:HB2	2.10	0.51
1:A:292:MET:HE2	1:A:309:PRO:HD3	1.93	0.51
1:A:494:HIS:O	1:A:498:LEU:HB2	2.09	0.51
1:A:555:TYR:N	4:V:48:GLY:N	2.58	0.51
1:A:640:LYS:C	1:A:645:SER:HG	2.16	0.51
1:A:831:TRP:CH2	2:B:34:ILE:CG2	2.81	0.51
1:G:546:THR:CG2	1:G:548:THR:HB	2.41	0.51
1:J:248:MLY:N	1:J:463:ASP:O	2.44	0.51
1:J:538:GLU:HA	4:W:349:LEU:CB	2.40	0.51
1:M:135:TYR:HD2	1:M:191:ARG:CD	2.23	0.51
1:M:221:GLN:HB2	1:M:449:LEU:HD11	1.92	0.51
1:M:578:HIS:O	1:M:579:PHE:HB3	2.11	0.51
1:M:732:ILE:H	1:M:733:PRO:CD	2.23	0.51
1:M:742:LYS:O	1:M:745:GLU:HB2	2.10	0.51
3:O:100:GLY:O	3:O:138:ASN:HA	2.11	0.51
1:S:725:ARG:O	1:S:729:ALA:HA	2.10	0.51
1:A:149:GLN:CG	1:A:719:ASP:N	2.73	0.51
1:A:195:TYR:CE2	1:A:199:ILE:CD1	2.93	0.51
1:A:499:GLU:OE1	1:A:766:PHE:CE2	2.60	0.51
1:A:592:ILE:O	1:A:592:ILE:HG22	2.11	0.51
1:D:793:ARG:CZ	3:F:87:PHE:HE1	2.24	0.51
1:D:836:PHE:HB2	2:E:161:GLU:OE1	2.10	0.51
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.51
1:G:134:VAL:C	1:G:136:ASN:H	2.16	0.51
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.51
1:G:834:LEU:CD1	2:H:51:PHE:CD1	2.93	0.51
1:J:40:VAL:HG13	1:J:41:VAL:O	2.10	0.51
1:J:212:GLY:O	1:J:213:LYS:HB2	2.10	0.51
1:J:232:PHE:CE1	1:J:287:ILE:HD13	2.44	0.51
1:J:491:PHE:HD1	1:J:671:PHE:CE2	2.27	0.51
1:M:134:VAL:C	1:M:136:ASN:H	2.16	0.51
1:M:195:TYR:CE2	1:M:199:ILE:CD1	2.93	0.51
1:M:248:MLY:N	1:M:463:ASP:O	2.44	0.51
1:M:355:THR:OG1	1:M:437:MET:HE1	2.09	0.51
1:M:546:THR:CG2	1:M:548:THR:HB	2.41	0.51
1:M:553:MLY:HG3	4:2:44:MET:O	2.07	0.51
1:M:797:PHE:HD1	3:O:149:VAL:HG13	1.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:494:HIS:O	1:S:498:LEU:HB2	2.09	0.51
1:S:538:GLU:HA	4:2:349:LEU:CB	2.40	0.51
1:S:733:PRO:O	1:S:737:PHE:CE1	2.53	0.51
1:S:821:ARG:HH12	2:T:127:ARG:CZ	2.23	0.51
1:S:830:PRO:CB	2:T:67:MET:HE2	2.40	0.51
3:U:53:PRO:HB2	3:U:55:LYS:HG3	1.91	0.51
4:4:167:GLU:OE1	4:6:44:MET:HA	2.10	0.51
4:6:285:CYS:O	4:6:290:ARG:NH1	2.43	0.51
1:A:506:GLU:H	1:A:761:GLY:HA2	1.74	0.51
1:D:530:MET:HG2	4:9:354:GLN:HB2	0.57	0.51
1:D:739:ASP:CB	1:D:742:LYS:CB	2.81	0.51
2:E:112:ILE:HG23	2:E:147:ASN:HB3	1.93	0.51
1:G:220:ASP:O	1:G:224:SER:N	2.27	0.51
1:G:248:MLY:N	1:G:463:ASP:O	2.44	0.51
1:G:508:ILE:CD1	1:G:759:ALA:HB2	2.09	0.51
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.51
1:J:642:LYS:HA	4:W:21:PHE:C	2.36	0.51
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	0.51
1:M:38:VAL:CG1	1:M:39:PHE:N	2.74	0.51
1:M:829:TRP:CH2	2:N:83:MET:HE3	2.45	0.51
4:1:148:THR:OG1	4:3:45:VAL:HG23	2.09	0.51
4:3:287:ILE:HG23	4:5:202:THR:CG2	2.23	0.51
4:4:285:CYS:O	4:4:290:ARG:NH1	2.43	0.51
4:8:287:ILE:HG22	4:V:204:ALA:HB3	1.91	0.51
1:A:578:HIS:O	1:A:579:PHE:HB3	2.11	0.51
1:A:769:ALA:C	1:A:772:LEU:H	2.19	0.51
1:A:836:PHE:CE1	2:B:160:GLY:N	2.78	0.51
2:B:129:THR:O	2:B:133:ILE:HG13	2.10	0.51
3:C:100:GLY:O	3:C:138:ASN:HA	2.11	0.51
1:D:232:PHE:CE1	1:D:287:ILE:HD13	2.45	0.51
1:D:599:ASN:CG	1:D:649:VAL:CB	2.80	0.51
1:D:742:LYS:O	1:D:745:GLU:HB2	2.10	0.51
1:G:109:ARG:HD3	1:G:117:THR:HB	1.92	0.51
1:G:292:MET:HE2	1:G:309:PRO:HD3	1.93	0.51
1:G:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
2:K:117:LEU:CG	2:K:147:ASN:OD1	2.52	0.51
1:M:41:VAL:HG13	1:M:42:HIS:N	2.25	0.51
1:M:197:ALA:O	1:M:201:ALA:HB2	2.10	0.51
1:M:418:THR:O	1:M:422:VAL:HG23	2.11	0.51
3:O:104:GLY:HA2	3:O:137:ILE:HD11	1.92	0.51
1:S:95:THR:HB	1:S:713:SER:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:418:THR:O	1:S:422:VAL:HG23	2.11	0.51
1:S:732:ILE:HG23	1:S:747:LEU:CD1	1.05	0.51
2:T:140:PHE:O	2:T:141:PRO:C	2.33	0.51
1:A:41:VAL:HG21	1:A:76:GLN:HG3	1.92	0.51
2:B:114:LYS:O	2:B:147:ASN:ND2	2.42	0.51
1:D:218:LEU:N	1:D:221:GLN:CG	2.74	0.51
1:D:640:LYS:C	1:D:645:SER:HG	2.10	0.51
3:F:100:GLY:O	3:F:138:ASN:HA	2.11	0.51
1:G:38:VAL:CG1	1:G:39:PHE:N	2.74	0.51
1:G:411:GLU:H	4:V:333:PRO:CG	2.24	0.51
1:G:592:ILE:HG22	1:G:592:ILE:O	2.11	0.51
1:G:795:ARG:CB	3:I:35:ARG:NH1	2.67	0.51
1:G:817:GLN:CG	2:H:128:PHE:CE1	2.93	0.51
3:I:110:VAL:HG13	3:I:114:LEU:HD12	1.91	0.51
1:J:135:TYR:HD2	1:J:191:ARG:CD	2.23	0.51
1:J:195:TYR:CE2	1:J:199:ILE:CD1	2.93	0.51
2:K:121:LEU:O	2:K:128:PHE:CG	2.61	0.51
1:M:41:VAL:HG21	1:M:76:GLN:HG3	1.93	0.51
1:M:212:GLY:O	1:M:213:LYS:HB2	2.10	0.51
1:M:629:GLU:HG2	1:M:643:GLY:C	2.35	0.51
1:M:640:LYS:CA	1:M:645:SER:OG	2.58	0.51
1:M:732:ILE:HG21	1:M:747:LEU:CD1	0.63	0.51
1:M:732:ILE:H	1:M:733:PRO:HD2	1.74	0.51
2:N:129:THR:O	2:N:133:ILE:HG13	2.09	0.51
1:S:38:VAL:CG1	1:S:39:PHE:N	2.74	0.51
1:S:128:PRO:O	1:S:129:TYR:HB2	2.10	0.51
1:S:629:GLU:HG2	1:S:643:GLY:C	2.35	0.51
1:S:742:LYS:O	1:S:745:GLU:HB2	2.10	0.51
1:A:400:ALA:HB1	1:A:606:THR:HG22	1.92	0.51
1:A:725:ARG:O	1:A:729:ALA:HA	2.10	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:448:GLN:C	1:D:450:ASP:H	2.19	0.51
1:D:508:ILE:HD13	1:D:766:PHE:CD2	2.45	0.51
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	0.51
1:D:687:GLU:O	1:D:691:VAL:HG23	2.11	0.51
1:G:195:TYR:CE2	1:G:199:ILE:CD1	2.93	0.51
1:G:418:THR:O	1:G:422:VAL:HG23	2.11	0.51
1:J:687:GLU:O	1:J:691:VAL:HG23	2.11	0.51
1:M:84:MLY:HH23	1:M:719:ASP:HB3	1.89	0.51
1:M:206:LYS:HD2	1:M:217:THR:CG2	2.17	0.51
1:M:755:HIS:HA	1:M:758:TYR:HE1	1.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:218:LEU:N	1:S:221:GLN:CG	2.74	0.51
1:S:546:THR:CG2	1:S:548:THR:HB	2.41	0.51
1:S:818:TYR:C	2:T:90:GLY:HA3	2.35	0.51
2:T:114:LYS:HA	2:T:147:ASN:HD22	1.74	0.51
4:3:324:THR:H	4:5:244:ASP:HA	1.75	0.51
4:W:322:PRO:HB3	4:Y:246:GLN:HG2	1.92	0.51
1:A:38:VAL:CG1	1:A:39:PHE:N	2.74	0.51
2:B:114:LYS:HA	2:B:147:ASN:HD22	1.75	0.51
1:D:38:VAL:CG1	1:D:39:PHE:N	2.74	0.51
1:D:278:GLN:HG3	1:D:318:GLY:H	1.75	0.51
1:D:578:HIS:O	1:D:579:PHE:HB3	2.10	0.51
1:D:712:PRO:HG2	1:D:771:LEU:HD13	1.92	0.51
1:D:829:TRP:HZ3	2:E:84:PHE:CZ	2.20	0.51
1:D:838:ILE:HD13	2:E:54:MET:CE	2.40	0.51
1:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.51
1:G:642:LYS:HA	4:V:21:PHE:C	2.36	0.51
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.51
1:G:830:PRO:CB	2:H:67:MET:CE	2.81	0.51
1:J:448:GLN:C	1:J:450:ASP:H	2.19	0.51
1:J:634:GLY:N	4:W:25:ASP:O	2.31	0.51
1:J:796:GLY:HA2	3:L:35:ARG:NE	2.24	0.51
1:J:798:LEU:CD2	3:L:118:MET:HB3	2.41	0.51
1:M:292:MET:HE2	1:M:309:PRO:HD3	1.93	0.51
1:M:632:GLY:HA3	1:M:643:GLY:N	2.17	0.51
1:S:120:GLY:O	1:S:764:MLY:CH2	2.58	0.51
1:S:135:TYR:HD2	1:S:191:ARG:CD	2.23	0.51
1:S:202:SER:HB2	1:S:207:LYS:NZ	2.26	0.51
1:S:400:ALA:HB1	1:S:606:THR:HG22	1.93	0.51
1:S:540:CYS:C	4:2:349:LEU:HD21	2.36	0.51
1:A:202:SER:HB2	1:A:207:LYS:NZ	2.26	0.51
1:A:248:MLY:N	1:A:463:ASP:O	2.44	0.51
1:A:267:THR:HG21	1:A:438:PHE:HE2	1.76	0.51
1:A:798:LEU:HD13	3:C:126:LEU:HD11	1.85	0.51
1:D:237:THR:O	1:D:240:ASN:O	2.29	0.51
1:D:248:MLY:N	1:D:463:ASP:O	2.44	0.51
1:D:408:VAL:CG1	4:9:332:PRO:HB3	2.41	0.51
1:D:411:GLU:H	4:9:333:PRO:CG	2.24	0.51
1:D:732:ILE:HD11	1:D:782:MLY:CH1	2.34	0.51
1:G:218:LEU:CD2	1:G:222:ILE:CG1	2.86	0.51
3:I:100:GLY:O	3:I:138:ASN:HA	2.11	0.51
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.51

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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	0.51
1:J:635:GLY:HA3	4:W:334:GLU:CG	2.30	0.51
1:J:795:ARG:CG	3:L:116:GLU:OE2	2.59	0.51
1:J:795:ARG:HD2	3:L:43:ASN:N	2.26	0.51
1:J:813:ILE:HG22	2:K:128:PHE:HE1	1.73	0.51
2:K:114:LYS:HA	2:K:147:ASN:HD22	1.74	0.51
1:M:128:PRO:O	1:M:129:TYR:HB2	2.10	0.51
1:M:202:SER:HB2	1:M:207:LYS:NZ	2.26	0.51
1:M:642:LYS:HA	4:Z:21:PHE:C	2.36	0.51
1:S:237:THR:O	1:S:240:ASN:O	2.29	0.51
1:S:248:MLY:N	1:S:463:ASP:O	2.44	0.51
1:S:267:THR:HG21	1:S:438:PHE:HE2	1.76	0.51
1:S:277:PHE:CG	1:S:278:GLN:N	2.76	0.51
1:S:311:ASP:HB2	1:S:312:TYR:CE1	2.46	0.51
1:S:592:ILE:O	1:S:592:ILE:HG22	2.11	0.51
1:S:675:ILE:CG2	1:S:676:ILE:N	2.74	0.51
1:S:753:VAL:HG11	1:S:779:ARG:NH1	2.24	0.51
1:S:819:ASN:OD1	2:T:90:GLY:O	2.28	0.51
3:U:100:GLY:O	3:U:138:ASN:HA	2.11	0.51
1:A:311:ASP:HB2	1:A:312:TYR:CE1	2.46	0.51
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.51
1:D:640:LYS:CA	1:D:645:SER:OG	2.58	0.51
1:G:41:VAL:HG13	1:G:42:HIS:N	2.25	0.51
1:G:640:LYS:CA	1:G:645:SER:OG	2.59	0.51
1:G:646:PHE:CE2	1:G:652:LEU:CD2	2.87	0.51
1:G:675:ILE:CG2	1:G:676:ILE:N	2.74	0.51
1:G:742:LYS:O	1:G:745:GLU:HB2	2.10	0.51
1:J:84:MLY:HH23	1:J:719:ASP:O	1.99	0.51
1:J:278:GLN:HG3	1:J:318:GLY:H	1.75	0.51
1:J:408:VAL:CG1	4:W:332:PRO:HB3	2.40	0.51
1:J:725:ARG:O	1:J:729:ALA:HA	2.10	0.51
1:J:792:ALA:CB	3:L:42:THR:CA	2.89	0.51
2:K:117:LEU:HG	2:K:147:ASN:HB3	1.93	0.51
1:M:218:LEU:N	1:M:221:GLN:CG	2.74	0.51
3:O:110:VAL:HG13	3:O:114:LEU:HD12	1.92	0.51
1:S:41:VAL:HG13	1:S:42:HIS:N	2.25	0.51
1:S:84:MLY:CD	1:S:723:ARG:HD2	2.39	0.51
1:S:642:LYS:HA	4:2:21:PHE:C	2.35	0.51
2:T:117:LEU:HG	2:T:147:ASN:HB3	1.93	0.51
1:A:411:GLU:H	4:8:333:PRO:CG	2.24	0.50
1:A:629:GLU:HG2	1:A:643:GLY:C	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:640:LYS:CA	1:A:645:SER:OG	2.58	0.50
1:D:135:TYR:HD2	1:D:191:ARG:CD	2.23	0.50
1:D:311:ASP:HB2	1:D:312:TYR:CE1	2.46	0.50
1:D:732:ILE:O	1:D:736:GLN:HG3	2.11	0.50
2:E:139:ALA:C	2:E:141:PRO:HD3	2.33	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50
1:G:311:ASP:HB2	1:G:312:TYR:CE1	2.46	0.50
1:J:93:MET:HA	1:J:714:ARG:H	1.77	0.50
1:J:202:SER:HB2	1:J:207:LYS:NZ	2.26	0.50
1:J:411:GLU:H	4:W:333:PRO:CG	2.24	0.50
1:J:418:THR:O	1:J:422:VAL:HG23	2.11	0.50
1:J:646:PHE:HE2	1:J:652:LEU:CG	2.25	0.50
1:M:210:GLN:C	1:M:211:SER:HG	2.15	0.50
1:M:237:THR:O	1:M:240:ASN:O	2.29	0.50
1:M:311:ASP:HB2	1:M:312:TYR:CE1	2.46	0.50
1:M:400:ALA:HB1	1:M:606:THR:HG22	1.93	0.50
1:S:291:ILE:HA	1:S:331:LEU:CD1	2.39	0.50
1:S:470:PHE:O	1:S:473:ASN:ND2	2.40	0.50
1:S:505:MLY:NZ	1:S:762:HIS:CD2	2.79	0.50
1:S:640:LYS:CA	1:S:645:SER:OG	2.58	0.50
1:A:197:ALA:O	1:A:201:ALA:HB2	2.10	0.50
1:A:732:ILE:HG23	1:A:747:LEU:CD1	1.04	0.50
1:A:742:LYS:O	1:A:745:GLU:HB2	2.11	0.50
2:E:114:LYS:N	2:E:146:GLY:O	2.40	0.50
1:G:128:PRO:O	1:G:129:TYR:HB2	2.09	0.50
1:G:212:GLY:O	1:G:213:LYS:HB2	2.11	0.50
1:G:400:ALA:HB1	1:G:606:THR:HG22	1.93	0.50
1:G:540:CYS:C	4:V:349:LEU:HD21	2.37	0.50
1:G:797:PHE:CD2	3:I:126:LEU:CD2	2.84	0.50
1:J:553:MLY:O	4:Y:46:GLY:HA3	2.11	0.50
1:J:592:ILE:HG22	1:J:592:ILE:O	2.10	0.50
1:J:642:LYS:CG	4:W:22:ALA:HA	2.37	0.50
1:M:795:ARG:CB	3:O:35:ARG:NH1	2.73	0.50
1:S:84:MLY:HH21	1:S:724:TYR:CE2	2.46	0.50
1:S:109:ARG:HD3	1:S:117:THR:HB	1.92	0.50
1:S:214:MET:HA	1:S:340:ILE:CD1	2.41	0.50
1:S:646:PHE:HE2	1:S:652:LEU:CG	2.25	0.50
1:S:796:GLY:HA2	3:U:35:ARG:CG	2.35	0.50
3:U:46:ILE:O	3:U:50:LEU:CG	2.47	0.50
1:D:215:GLN:CA	1:D:340:ILE:CG2	2.63	0.50
1:D:291:ILE:HA	1:D:331:LEU:CD1	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:429:LEU:O	1:D:433:VAL:HG23	2.12	0.50
1:D:546:THR:CG2	1:D:548:THR:HB	2.41	0.50
1:D:646:PHE:HE2	1:D:652:LEU:CG	2.25	0.50
1:D:732:ILE:H	1:D:733:PRO:CD	2.22	0.50
1:G:237:THR:O	1:G:240:ASN:O	2.29	0.50
1:G:267:THR:HG21	1:G:438:PHE:HE2	1.76	0.50
1:G:278:GLN:HG3	1:G:318:GLY:H	1.75	0.50
1:G:408:VAL:CG1	4:V:332:PRO:HB3	2.41	0.50
1:G:429:LEU:O	1:G:433:VAL:HG23	2.12	0.50
1:G:725:ARG:O	1:G:729:ALA:HA	2.10	0.50
1:J:218:LEU:N	1:J:221:GLN:CG	2.74	0.50
1:J:470:PHE:O	1:J:473:ASN:ND2	2.40	0.50
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	0.50
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.50
1:J:829:TRP:CZ3	2:K:87:LYS:CE	2.81	0.50
1:M:429:LEU:O	1:M:433:VAL:HG23	2.12	0.50
1:M:470:PHE:O	1:M:473:ASN:ND2	2.40	0.50
1:M:646:PHE:HE2	1:M:652:LEU:CG	2.25	0.50
1:M:831:TRP:HE1	2:N:67:MET:CG	2.23	0.50
2:N:112:ILE:HG23	2:N:147:ASN:HB3	1.93	0.50
1:S:89:GLU:CD	1:S:153:PRO:HD2	2.36	0.50
1:S:93:MET:HG2	1:S:715:VAL:HA	1.90	0.50
1:S:687:GLU:O	1:S:691:VAL:HG23	2.11	0.50
2:T:121:LEU:HA	2:T:128:PHE:CD2	2.46	0.50
4:2:287:ILE:CB	4:4:203:THR:CB	2.87	0.50
1:A:418:THR:O	1:A:422:VAL:HG23	2.11	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:795:ARG:HD3	3:C:35:ARG:HH22	1.76	0.50
1:D:40:VAL:HG13	1:D:41:VAL:O	2.10	0.50
1:D:89:GLU:CD	1:D:153:PRO:HD2	2.36	0.50
1:D:212:GLY:O	1:D:213:LYS:HB2	2.11	0.50
1:D:635:GLY:HA3	4:9:334:GLU:CG	2.30	0.50
1:D:642:LYS:CG	4:9:22:ALA:HA	2.37	0.50
1:D:795:ARG:HG2	3:F:118:MET:HE1	0.72	0.50
1:D:831:TRP:CZ3	2:E:34:ILE:HG12	2.45	0.50
1:G:41:VAL:HG21	1:G:76:GLN:HG3	1.92	0.50
1:G:553:MLY:HH12	4:X:45:VAL:CG1	2.29	0.50
1:J:93:MET:CE	1:J:764:MLY:CD	2.81	0.50
1:J:154:HIS:CD2	1:J:155:ILE:H	2.30	0.50
1:M:733:PRO:CA	1:M:737:PHE:CE1	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:829:TRP:HZ3	2:N:84:PHE:CE2	2.30	0.50
1:M:836:PHE:CE1	2:N:160:GLY:N	2.75	0.50
1:S:195:TYR:CE2	1:S:199:ILE:CD1	2.93	0.50
1:S:642:LYS:HB2	4:2:24:ASP:O	1.89	0.50
1:S:770:GLY:O	1:S:771:LEU:C	2.44	0.50
2:T:139:ALA:C	2:T:141:PRO:HD3	2.33	0.50
4:1:287:ILE:HG13	4:3:202:THR:CB	2.42	0.50
4:4:322:PRO:C	4:6:244:ASP:HB2	2.37	0.50
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.31	0.50
1:A:89:GLU:CD	1:A:153:PRO:HD2	2.37	0.50
1:A:817:GLN:NE2	2:B:127:ARG:HG3	2.08	0.50
1:D:418:THR:CB	1:D:421:GLU:HG3	2.37	0.50
1:G:795:ARG:HA	3:I:118:MET:HE1	1.82	0.50
1:J:109:ARG:HD3	1:J:117:THR:HB	1.92	0.50
1:J:346:ASP:O	1:J:349:THR:HB	2.11	0.50
1:J:640:LYS:CA	1:J:645:SER:OG	2.58	0.50
1:J:733:PRO:CA	1:J:737:PHE:CE1	2.95	0.50
1:J:742:LYS:O	1:J:745:GLU:HB2	2.10	0.50
1:J:797:PHE:HE2	3:L:126:LEU:CG	2.24	0.50
1:M:732:ILE:O	1:M:736:GLN:HG3	2.12	0.50
2:N:121:LEU:O	2:N:128:PHE:CG	2.61	0.50
1:S:578:HIS:O	1:S:579:PHE:HB3	2.11	0.50
1:S:732:ILE:HG21	1:S:747:LEU:CD1	0.63	0.50
1:S:791:GLN:CD	3:U:115:GLY:HA3	2.32	0.50
1:S:798:LEU:CD1	3:U:126:LEU:HD22	2.29	0.50
1:A:218:LEU:N	1:A:221:GLN:CG	2.74	0.50
1:A:278:GLN:HG3	1:A:318:GLY:H	1.75	0.50
1:A:346:ASP:O	1:A:349:THR:HB	2.11	0.50
1:A:505:MLY:HB2	1:A:761:GLY:C	2.36	0.50
1:A:715:VAL:O	1:A:764:MLY:HB3	2.12	0.50
1:D:134:VAL:C	1:D:136:ASN:H	2.16	0.50
1:D:292:MET:HE2	1:D:309:PRO:HD3	1.93	0.50
1:D:418:THR:O	1:D:422:VAL:HG23	2.11	0.50
1:D:629:GLU:CB	1:D:645:SER:N	2.74	0.50
1:D:712:PRO:HB2	1:D:771:LEU:CG	2.42	0.50
1:D:725:ARG:CA	1:D:782:MLY:CH2	2.89	0.50
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	0.50
1:G:169:ASP:N	1:G:169:ASP:OD1	2.44	0.50
1:G:471:ASP:HB3	1:G:573:GLY:O	2.12	0.50
1:G:578:HIS:O	1:G:579:PHE:HB3	2.10	0.50
1:J:41:VAL:HG21	1:J:76:GLN:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:169:ASP:N	1:J:169:ASP:OD1	2.44	0.50
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	0.50
1:J:795:ARG:CA	3:L:118:MET:HE1	2.42	0.50
1:J:800:ARG:HG2	3:L:149:VAL:HG22	1.93	0.50
1:M:214:MET:HA	1:M:340:ILE:CD1	2.41	0.50
1:S:448:GLN:C	1:S:450:ASP:H	2.19	0.50
1:A:448:GLN:C	1:A:450:ASP:H	2.19	0.50
1:A:709:LYS:C	1:A:710:GLY:CA	2.64	0.50
1:A:732:ILE:O	1:A:736:GLN:HG3	2.12	0.50
1:A:834:LEU:CD2	2:B:54:MET:CE	2.49	0.50
1:D:346:ASP:O	1:D:349:THR:HB	2.12	0.50
1:G:553:MLY:O	4:X:46:GLY:HA3	2.12	0.50
1:J:89:GLU:CD	1:J:153:PRO:HD2	2.36	0.50
1:J:538:GLU:OE1	4:W:351:THR:HB	2.12	0.50
1:J:546:THR:CG2	1:J:548:THR:HB	2.41	0.50
1:J:715:VAL:O	1:J:764:MLY:HB3	2.12	0.50
1:J:757:GLN:CA	1:J:776:GLU:CB	2.90	0.50
1:M:346:ASP:O	1:M:349:THR:HB	2.11	0.50
1:M:411:GLU:H	4:Z:333:PRO:CG	2.24	0.50
1:M:687:GLU:O	1:M:691:VAL:HG23	2.11	0.50
1:M:782:MLY:O	1:M:786:ILE:CG1	2.60	0.50
1:S:168:THR:HG22	1:S:169:ASP:OD1	2.12	0.50
1:S:220:ASP:O	1:S:224:SER:N	2.27	0.50
1:S:732:ILE:O	1:S:736:GLN:HG3	2.12	0.50
4:3:322:PRO:C	4:5:244:ASP:HB2	2.37	0.50
1:A:687:GLU:O	1:A:691:VAL:HG23	2.11	0.50
1:D:154:HIS:CD2	1:D:155:ILE:H	2.30	0.50
1:D:538:GLU:OE1	4:9:351:THR:HB	2.12	0.50
1:J:292:MET:HE2	1:J:309:PRO:HD3	1.93	0.50
1:J:792:ALA:CA	3:L:42:THR:CG2	2.60	0.50
1:J:819:ASN:CB	2:K:90:GLY:O	2.60	0.50
1:J:839:MLY:N	1:J:840:PRO:CD	2.75	0.50
3:L:100:GLY:O	3:L:138:ASN:HA	2.10	0.50
1:M:128:PRO:O	1:M:683:PRO:HB3	2.12	0.50
1:M:267:THR:HG21	1:M:438:PHE:HE2	1.76	0.50
1:S:128:PRO:O	1:S:683:PRO:HB3	2.12	0.50
1:S:212:GLY:O	1:S:213:LYS:HB2	2.11	0.50
1:S:346:ASP:O	1:S:349:THR:HB	2.11	0.50
1:S:471:ASP:HB3	1:S:573:GLY:O	2.12	0.50
1:S:486:MLY:HH22	1:S:527:GLU:CD	2.37	0.50
1:S:733:PRO:CA	1:S:737:PHE:CE1	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:325:MET:HE2	4:V:244:ASP:HB3	1.94	0.50
1:A:214:MET:HA	1:A:340:ILE:CD1	2.41	0.50
1:A:629:GLU:CB	1:A:645:SER:N	2.74	0.50
1:D:95:THR:CB	1:D:772:LEU:HB2	2.42	0.50
1:D:206:LYS:HD2	1:D:217:THR:CG2	2.17	0.50
1:D:400:ALA:HB1	1:D:606:THR:HG22	1.92	0.50
1:D:471:ASP:HB3	1:D:573:GLY:O	2.12	0.50
1:D:629:GLU:HG2	1:D:643:GLY:C	2.35	0.50
1:D:649:VAL:HA	1:D:649:VAL:HG23	1.82	0.50
1:D:725:ARG:C	1:D:782:MLY:HH22	2.37	0.50
1:D:732:ILE:HD12	1:D:782:MLY:CH2	2.39	0.50
1:G:154:HIS:CD2	1:G:155:ILE:H	2.30	0.50
1:G:218:LEU:N	1:G:221:GLN:CG	2.74	0.50
1:G:538:GLU:OE1	4:V:351:THR:HB	2.12	0.50
1:G:629:GLU:HG2	1:G:643:GLY:C	2.35	0.50
1:G:715:VAL:HG12	1:G:716:LEU:O	2.12	0.50
1:G:733:PRO:CA	1:G:737:PHE:CE1	2.95	0.50
1:G:816:ILE:HD11	2:H:100:ALA:HB3	1.94	0.50
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	0.50
1:J:595:TRP:N	1:J:595:TRP:CD1	2.80	0.50
1:J:601:ASP:N	1:J:602:PRO:CD	2.75	0.50
1:M:291:ILE:HA	1:M:331:LEU:CD1	2.39	0.50
1:M:732:ILE:HG23	1:M:747:LEU:CD1	1.05	0.50
2:N:121:LEU:HA	2:N:128:PHE:CD2	2.46	0.50
1:S:803:TYR:CD2	3:U:17:PHE:CZ	2.99	0.50
2:T:114:LYS:N	2:T:146:GLY:O	2.40	0.50
4:2:318:THR:HA	4:2:327:ILE:HG12	1.94	0.50
4:4:324:THR:H	4:6:244:ASP:HA	1.75	0.50
4:7:70:PRO:HG3	4:7:81:ASP:HB3	1.94	0.50
4:X:318:THR:HA	4:X:327:ILE:HG12	1.94	0.50
4:X:324:THR:HG21	4:Z:247:VAL:HG23	1.89	0.50
4:Y:253:GLU:HA	4:Y:256:ARG:CG	2.42	0.50
1:A:154:HIS:CD2	1:A:155:ILE:H	2.30	0.49
1:A:169:ASP:OD1	1:A:169:ASP:N	2.44	0.49
1:A:471:ASP:HB3	1:A:573:GLY:O	2.12	0.49
1:A:498:LEU:HD21	1:A:764:MLY:CH2	2.40	0.49
1:A:547:ASP:O	1:A:550:PHE:HB3	2.12	0.49
1:A:797:PHE:CE1	3:C:149:VAL:HG12	2.46	0.49
1:A:815:CYS:SG	2:B:92:ASP:HB2	2.52	0.49
1:D:128:PRO:O	1:D:683:PRO:HB3	2.12	0.49
1:D:168:THR:HG22	1:D:169:ASP:OD1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	0.49
1:D:486:MLY:HH22	1:D:527:GLU:CD	2.37	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:G:448:GLN:C	1:G:450:ASP:H	2.19	0.49
1:G:510:TRP:CH2	1:G:768:MLY:HH11	2.47	0.49
1:G:601:ASP:N	1:G:602:PRO:CD	2.75	0.49
1:G:732:ILE:O	1:G:736:GLN:HG3	2.12	0.49
1:G:733:PRO:O	1:G:737:PHE:CE1	2.53	0.49
1:J:38:VAL:CG1	1:J:39:PHE:N	2.74	0.49
1:J:94:MET:C	1:J:713:SER:CB	2.61	0.49
1:J:97:LEU:HD23	1:J:712:PRO:CB	2.38	0.49
1:J:291:ILE:HA	1:J:331:LEU:CD1	2.39	0.49
1:J:418:THR:CB	1:J:421:GLU:HG3	2.37	0.49
1:J:429:LEU:O	1:J:433:VAL:HG23	2.12	0.49
2:K:112:ILE:HG23	2:K:147:ASN:HB3	1.93	0.49
1:M:154:HIS:CD2	1:M:155:ILE:H	2.30	0.49
1:M:168:THR:HG22	1:M:169:ASP:OD1	2.12	0.49
1:M:192:VAL:O	1:M:195:TYR:HB3	2.12	0.49
1:M:715:VAL:O	1:M:764:MLY:HB3	2.12	0.49
1:M:715:VAL:HG12	1:M:716:LEU:O	2.12	0.49
1:M:732:ILE:HG23	1:M:747:LEU:HD12	0.95	0.49
1:M:831:TRP:CZ3	2:N:34:ILE:HD13	2.40	0.49
1:S:411:GLU:H	4:2:333:PRO:CG	2.24	0.49
1:S:547:ASP:O	1:S:550:PHE:HB3	2.12	0.49
1:S:753:VAL:N	1:S:779:ARG:NH2	2.60	0.49
1:S:791:GLN:HE22	3:U:114:LEU:C	2.20	0.49
2:T:121:LEU:CA	2:T:128:PHE:CG	2.89	0.49
4:6:70:PRO:HG3	4:6:81:ASP:HB3	1.94	0.49
4:Y:318:THR:HA	4:Y:327:ILE:HG12	1.94	0.49
1:A:540:CYS:C	4:8:349:LEU:HD21	2.36	0.49
1:A:768:MLY:CB	1:A:771:LEU:HD13	2.42	0.49
1:D:169:ASP:OD1	1:D:169:ASP:N	2.44	0.49
1:D:481:ASN:N	1:D:481:ASN:ND2	2.51	0.49
1:D:733:PRO:CA	1:D:737:PHE:CE1	2.94	0.49
1:D:793:ARG:CZ	3:F:87:PHE:CE1	2.95	0.49
1:G:92:ALA:C	1:G:714:ARG:HG3	2.36	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.61	0.49
1:G:817:GLN:CD	2:H:127:ARG:CG	2.84	0.49
2:H:121:LEU:HA	2:H:128:PHE:CD2	2.47	0.49
1:J:176:LEU:N	1:J:176:LEU:CD1	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	0.49
1:M:448:GLN:C	1:M:450:ASP:H	2.19	0.49
1:M:486:MLY:HH22	1:M:527:GLU:CD	2.37	0.49
1:M:733:PRO:O	1:M:737:PHE:CE1	2.53	0.49
2:N:93:PRO:O	2:N:97:ILE:HG13	2.12	0.49
2:N:139:ALA:C	2:N:141:PRO:HD3	2.33	0.49
1:S:41:VAL:HG21	1:S:76:GLN:HG3	1.93	0.49
1:S:739:ASP:OD1	1:S:740:SER:N	2.45	0.49
2:T:112:ILE:HG23	2:T:147:ASN:HB3	1.92	0.49
4:2:244:ASP:HB3	4:Z:325:MET:HE2	1.94	0.49
4:7:318:THR:HA	4:7:327:ILE:HG12	1.94	0.49
4:9:70:PRO:HG3	4:9:81:ASP:HB3	1.94	0.49
1:A:237:THR:O	1:A:240:ASN:O	2.29	0.49
1:A:429:LEU:O	1:A:433:VAL:HG23	2.11	0.49
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
2:B:117:LEU:CB	2:B:147:ASN:ND2	2.35	0.49
2:B:140:PHE:HB3	2:B:144:VAL:HG12	1.94	0.49
1:D:543:PRO:CD	4:9:146:GLY:O	2.61	0.49
1:D:547:ASP:O	1:D:550:PHE:HB3	2.12	0.49
1:D:592:ILE:O	1:D:592:ILE:HG22	2.11	0.49
1:D:831:TRP:CZ3	2:E:34:ILE:HG23	2.47	0.49
1:D:839:MLY:HB2	1:D:840:PRO:HD3	1.95	0.49
1:G:470:PHE:O	1:G:473:ASN:ND2	2.40	0.49
1:G:687:GLU:O	1:G:691:VAL:HG23	2.11	0.49
1:G:792:ALA:HB3	3:I:42:THR:CG2	2.16	0.49
1:G:796:GLY:N	3:I:35:ARG:NH2	2.60	0.49
2:H:93:PRO:O	2:H:97:ILE:HG13	2.12	0.49
2:H:117:LEU:HG	2:H:147:ASN:HB3	1.93	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	0.49
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.49
1:M:543:PRO:CD	4:Z:146:GLY:O	2.61	0.49
1:M:629:GLU:CB	1:M:645:SER:N	2.73	0.49
1:M:747:LEU:C	1:M:749:GLY:H	2.20	0.49
1:S:64:THR:CG2	1:S:65:GLU:N	2.75	0.49
1:S:192:VAL:O	1:S:195:TYR:HB3	2.13	0.49
1:S:595:TRP:CD1	1:S:595:TRP:N	2.80	0.49
1:S:795:ARG:NH2	3:U:116:GLU:CA	2.56	0.49
1:S:804:ARG:C	1:S:807:VAL:CA	2.85	0.49
1:S:839:MLY:N	1:S:840:PRO:CD	2.75	0.49
4:5:70:PRO:HG3	4:5:81:ASP:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:70:PRO:HG3	4:8:81:ASP:HB3	1.94	0.49
4:V:70:PRO:HG3	4:V:81:ASP:HB3	1.94	0.49
4:V:318:THR:HA	4:V:327:ILE:HG12	1.94	0.49
1:A:97:LEU:HD13	1:A:97:LEU:N	2.28	0.49
1:A:128:PRO:O	1:A:683:PRO:HB3	2.12	0.49
1:A:251:ARG:O	1:A:263:ALA:HA	2.12	0.49
1:A:599:ASN:CG	1:A:649:VAL:CB	2.80	0.49
1:A:756:THR:O	1:A:758:TYR:N	2.46	0.49
1:A:836:PHE:CZ	2:B:160:GLY:CA	2.95	0.49
1:A:839:MLY:HB2	1:A:840:PRO:HD3	1.94	0.49
1:D:540:CYS:C	4:9:349:LEU:HD21	2.36	0.49
1:D:556:ASP:CA	4:W:49:GLN:O	2.52	0.49
1:D:642:LYS:CB	4:9:24:ASP:O	2.59	0.49
1:G:128:PRO:O	1:G:683:PRO:HB3	2.12	0.49
1:G:291:ILE:HA	1:G:331:LEU:CD1	2.40	0.49
1:G:346:ASP:O	1:G:349:THR:HB	2.11	0.49
1:G:725:ARG:NE	1:G:733:PRO:CB	1.95	0.49
1:G:747:LEU:C	1:G:749:GLY:H	2.20	0.49
1:G:834:LEU:CD2	2:H:34:ILE:HD11	2.42	0.49
2:H:121:LEU:O	2:H:128:PHE:CG	2.61	0.49
1:J:168:THR:HG22	1:J:169:ASP:OD1	2.12	0.49
1:J:215:GLN:H	1:J:340:ILE:CD1	2.20	0.49
1:M:218:LEU:CD2	1:M:222:ILE:CG1	2.86	0.49
1:M:471:ASP:HB3	1:M:573:GLY:O	2.12	0.49
1:M:530:MET:HA	4:Z:354:GLN:CD	2.11	0.49
1:M:839:MLY:HB2	1:M:840:PRO:HD3	1.94	0.49
2:N:117:LEU:HG	2:N:147:ASN:HB3	1.93	0.49
1:S:715:VAL:HG12	1:S:716:LEU:O	2.12	0.49
1:S:731:ALA:HB2	3:U:94:PHE:N	2.28	0.49
1:S:834:LEU:HD11	2:T:51:PHE:CD1	2.48	0.49
4:4:318:THR:HA	4:4:327:ILE:HG12	1.94	0.49
4:6:318:THR:HA	4:6:327:ILE:HG12	1.94	0.49
4:8:318:THR:HA	4:8:327:ILE:HG12	1.95	0.49
4:W:70:PRO:HG3	4:W:81:ASP:HB3	1.94	0.49
4:Z:318:THR:HA	4:Z:327:ILE:HG12	1.95	0.49
1:A:601:ASP:N	1:A:602:PRO:CD	2.75	0.49
1:A:753:VAL:HG12	1:A:775:LEU:CD1	2.27	0.49
2:B:121:LEU:HA	2:B:128:PHE:CD2	2.46	0.49
1:D:797:PHE:CG	3:F:146:ILE:CG2	2.77	0.49
1:D:798:LEU:HD12	3:F:126:LEU:CD2	2.37	0.49
1:G:251:ARG:O	1:G:263:ALA:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	0.49
2:H:117:LEU:CB	2:H:147:ASN:ND2	2.35	0.49
1:J:192:VAL:O	1:J:195:TYR:HB3	2.13	0.49
1:J:629:GLU:CB	1:J:645:SER:N	2.73	0.49
1:J:715:VAL:HG12	1:J:716:LEU:O	2.12	0.49
1:M:290:GLN:HG2	1:M:331:LEU:CA	2.43	0.49
1:M:540:CYS:C	4:Z:349:LEU:HD21	2.36	0.49
1:M:634:GLY:N	4:Z:25:ASP:O	2.31	0.49
1:S:530:MET:HG2	4:2:354:GLN:HB2	0.57	0.49
1:S:601:ASP:N	1:S:602:PRO:CD	2.75	0.49
4:1:124:PHE:CZ	4:1:132:MET:HG3	2.48	0.49
4:1:246:GLN:HG2	4:Y:322:PRO:HB3	1.93	0.49
4:3:70:PRO:HG3	4:3:81:ASP:HB3	1.94	0.49
4:3:318:THR:HA	4:3:327:ILE:HG12	1.94	0.49
4:9:318:THR:HA	4:9:327:ILE:HG12	1.95	0.49
4:W:318:THR:HA	4:W:327:ILE:HG12	1.95	0.49
4:X:324:THR:CB	4:Z:247:VAL:H	2.23	0.49
1:A:22:LYS:O	1:A:26:GLU:N	2.30	0.49
1:A:64:THR:CG2	1:A:65:GLU:N	2.76	0.49
1:A:732:ILE:H	1:A:733:PRO:CD	2.23	0.49
1:A:831:TRP:CZ3	2:B:50:THR:HB	2.39	0.49
2:B:112:ILE:HG23	2:B:147:ASN:HB3	1.93	0.49
1:D:20:SER:HB3	1:D:23:GLU:OE1	2.13	0.49
1:D:64:THR:CG2	1:D:65:GLU:N	2.75	0.49
1:D:839:MLY:N	1:D:840:PRO:CD	2.75	0.49
2:E:117:LEU:HG	2:E:147:ASN:HB3	1.93	0.49
2:E:121:LEU:HA	2:E:128:PHE:CD2	2.46	0.49
1:G:20:SER:HB3	1:G:23:GLU:OE1	2.12	0.49
1:G:168:THR:HG22	1:G:169:ASP:OD1	2.12	0.49
1:G:192:VAL:O	1:G:195:TYR:HB3	2.13	0.49
1:G:595:TRP:N	1:G:595:TRP:CD1	2.80	0.49
1:G:795:ARG:HH21	3:I:116:GLU:HG2	1.46	0.49
1:G:819:ASN:CB	2:H:92:ASP:HB2	2.31	0.49
2:H:112:ILE:HG23	2:H:147:ASN:HB3	1.93	0.49
1:J:251:ARG:O	1:J:263:ALA:HA	2.12	0.49
1:J:267:THR:HG21	1:J:438:PHE:HE2	1.76	0.49
1:J:553:MLY:CB	4:Y:45:VAL:O	2.56	0.49
1:M:35:MLY:CE	1:M:777:GLU:CG	2.81	0.49
1:M:89:GLU:CD	1:M:153:PRO:HD2	2.37	0.49
1:M:251:ARG:O	1:M:263:ALA:HA	2.12	0.49
1:M:538:GLU:OE1	4:Z:351:THR:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:739:ASP:OD1	1:M:740:SER:N	2.45	0.49
1:M:795:ARG:HB2	3:O:35:ARG:NH1	2.28	0.49
1:S:576:GLU:CG	1:S:577:ALA:N	2.44	0.49
2:T:114:LYS:HG3	2:T:137:TRP:CZ2	2.48	0.49
4:2:124:PHE:CZ	4:2:132:MET:HG3	2.48	0.49
4:3:124:PHE:CZ	4:3:132:MET:HG3	2.48	0.49
1:A:289:TYR:OH	1:A:315:VAL:O	2.27	0.49
1:A:470:PHE:O	1:A:473:ASN:ND2	2.40	0.49
1:A:839:MLY:N	1:A:840:PRO:CD	2.75	0.49
2:B:114:LYS:N	2:B:146:GLY:O	2.40	0.49
1:D:173:GLN:OE1	1:D:668:HIS:HB3	2.13	0.49
1:D:405:ARG:HB2	1:D:414:THR:OG1	2.13	0.49
1:D:713:SER:CB	1:D:775:LEU:CD2	2.51	0.49
1:D:756:THR:O	1:D:758:TYR:N	2.45	0.49
1:D:818:TYR:CG	2:E:90:GLY:CA	2.78	0.49
2:E:93:PRO:O	2:E:97:ILE:HG13	2.13	0.49
1:G:486:MLY:HH22	1:G:527:GLU:CD	2.37	0.49
1:G:792:ALA:HB1	3:I:42:THR:N	2.28	0.49
1:J:732:ILE:O	1:J:736:GLN:HG3	2.12	0.49
1:J:739:ASP:OD1	1:J:740:SER:N	2.45	0.49
1:M:538:GLU:HA	4:Z:351:THR:H	1.77	0.49
1:M:595:TRP:N	1:M:595:TRP:CD1	2.80	0.49
1:S:154:HIS:CD2	1:S:155:ILE:H	2.30	0.49
1:S:543:PRO:CD	4:2:146:GLY:O	2.61	0.49
1:S:756:THR:O	1:S:758:TYR:N	2.46	0.49
1:S:793:ARG:HD3	3:U:40:ASN:CG	2.37	0.49
2:T:128:PHE:O	2:T:133:ILE:HD11	2.13	0.49
4:1:318:THR:HA	4:1:327:ILE:HG12	1.95	0.49
4:5:318:THR:HA	4:5:327:ILE:HG12	1.95	0.49
4:7:288:ASP:CA	4:9:204:ALA:HB2	2.32	0.49
4:X:124:PHE:CZ	4:X:132:MET:HG3	2.48	0.49
1:A:290:GLN:HG2	1:A:331:LEU:CA	2.43	0.49
1:A:720:PHE:CD2	1:A:744:SER:HB3	2.48	0.49
1:A:733:PRO:CA	1:A:737:PHE:CE1	2.95	0.49
1:A:739:ASP:OD1	1:A:740:SER:N	2.45	0.49
1:A:797:PHE:CD1	3:C:146:ILE:CA	2.95	0.49
2:B:114:LYS:HG3	2:B:137:TRP:CZ2	2.48	0.49
1:D:267:THR:HG21	1:D:438:PHE:HE2	1.76	0.49
1:D:831:TRP:HZ2	2:E:47:LEU:CD2	2.21	0.49
2:E:121:LEU:O	2:E:128:PHE:CG	2.61	0.49
1:G:173:GLN:OE1	1:G:668:HIS:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:547:ASP:O	1:G:550:PHE:HB3	2.12	0.49
2:H:140:PHE:HB3	2:H:144:VAL:HG12	1.95	0.49
1:J:20:SER:HB3	1:J:23:GLU:OE1	2.13	0.49
1:J:791:GLN:NE2	3:L:115:GLY:C	2.69	0.49
2:K:93:PRO:O	2:K:97:ILE:HG13	2.12	0.49
1:M:821:ARG:HH22	2:N:127:ARG:NE	2.09	0.49
1:M:821:ARG:HH12	2:N:127:ARG:CZ	2.26	0.49
2:N:114:LYS:HG3	2:N:137:TRP:CZ2	2.48	0.49
1:S:93:MET:CG	1:S:715:VAL:HA	2.43	0.49
1:S:429:LEU:O	1:S:433:VAL:HG23	2.12	0.49
4:2:287:ILE:HB	4:4:203:THR:HB	1.95	0.49
4:4:198:TYR:CZ	4:4:248:ILE:HG13	2.48	0.49
4:9:198:TYR:CZ	4:9:248:ILE:HG13	2.48	0.49
4:V:322:PRO:HB3	4:X:246:GLN:HG2	1.93	0.49
4:Y:124:PHE:CZ	4:Y:132:MET:HG3	2.48	0.49
1:A:20:SER:HB3	1:A:23:GLU:OE1	2.13	0.49
1:A:149:GLN:HG2	1:A:719:ASP:N	2.26	0.49
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.95	0.49
1:A:543:PRO:CD	4:8:146:GLY:O	2.61	0.49
1:D:251:ARG:O	1:D:263:ALA:HA	2.12	0.49
2:E:114:LYS:HG3	2:E:137:TRP:CZ2	2.48	0.49
1:G:715:VAL:O	1:G:764:MLY:HB3	2.12	0.49
1:G:720:PHE:CD2	1:G:744:SER:HB3	2.48	0.49
1:G:757:GLN:HB2	1:G:776:GLU:HG3	1.95	0.49
1:G:839:MLY:HB2	1:G:840:PRO:HD3	1.94	0.49
3:I:50:LEU:O	3:I:55:LYS:HB2	2.13	0.49
1:J:64:THR:CG2	1:J:65:GLU:N	2.76	0.49
1:J:173:GLN:OE1	1:J:668:HIS:HB3	2.13	0.49
1:J:214:MET:HA	1:J:340:ILE:CD1	2.41	0.49
1:J:290:GLN:HG2	1:J:331:LEU:CA	2.43	0.49
1:J:312:TYR:N	1:J:312:TYR:CD1	2.81	0.49
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.49
1:J:547:ASP:O	1:J:550:PHE:HB3	2.12	0.49
1:J:756:THR:O	1:J:758:TYR:N	2.45	0.49
1:M:839:MLY:N	1:M:840:PRO:CD	2.75	0.49
1:S:120:GLY:CA	1:S:764:MLY:HH11	2.40	0.49
1:S:723:ARG:HH11	1:S:723:ARG:HG3	1.78	0.49
4:4:124:PHE:CZ	4:4:132:MET:HG3	2.48	0.49
4:5:213:LYS:O	4:5:217:CYS:HB2	2.13	0.49
4:7:198:TYR:CZ	4:7:248:ILE:HG13	2.48	0.49
4:X:70:PRO:HG3	4:X:81:ASP:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:70:PRO:HG3	4:Z:81:ASP:HB3	1.94	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	2.80	0.49
1:A:486:MLY:HH22	1:A:527:GLU:CD	2.37	0.49
1:A:800:ARG:CD	3:C:149:VAL:O	2.55	0.49
1:D:506:GLU:CG	1:D:764:MLY:HE3	2.43	0.49
1:D:715:VAL:O	1:D:764:MLY:HB3	2.12	0.49
2:E:128:PHE:O	2:E:133:ILE:HD11	2.13	0.49
1:G:290:GLN:HG2	1:G:331:LEU:CA	2.43	0.49
1:G:310:TYR:CE2	1:G:320:ILE:CD1	2.94	0.49
2:H:114:LYS:HG3	2:H:137:TRP:CZ2	2.48	0.49
1:J:314:TYR:CZ	1:J:362:GLY:HA2	2.48	0.49
1:J:410:ASN:HD22	4:W:336:LYS:HE2	1.78	0.49
2:K:114:LYS:HG3	2:K:137:TRP:CZ2	2.48	0.49
1:M:278:GLN:HG3	1:M:318:GLY:H	1.75	0.49
1:M:530:MET:HG2	4:Z:354:GLN:HB2	0.57	0.49
1:M:725:ARG:NE	1:M:733:PRO:CB	1.95	0.49
1:S:642:LYS:CB	4:2:24:ASP:O	2.60	0.49
3:U:50:LEU:O	3:U:55:LYS:HB2	2.13	0.49
4:2:198:TYR:CZ	4:2:248:ILE:HG13	2.48	0.49
4:4:213:LYS:O	4:4:217:CYS:HB2	2.13	0.49
4:6:124:PHE:CZ	4:6:132:MET:HG3	2.48	0.49
4:6:198:TYR:CZ	4:6:248:ILE:HG13	2.48	0.49
4:8:290:ARG:HH22	4:V:202:THR:CG2	2.17	0.49
4:W:198:TYR:CZ	4:W:248:ILE:HG13	2.48	0.49
4:X:198:TYR:CZ	4:X:248:ILE:HG13	2.48	0.49
1:A:291:ILE:HA	1:A:331:LEU:CD1	2.39	0.48
1:A:642:LYS:CB	4:8:24:ASP:O	2.59	0.48
2:B:93:PRO:O	2:B:97:ILE:HG13	2.13	0.48
3:C:50:LEU:O	3:C:55:LYS:HB2	2.13	0.48
1:D:97:LEU:HD13	1:D:97:LEU:N	2.27	0.48
1:D:192:VAL:O	1:D:195:TYR:HB3	2.13	0.48
1:D:314:TYR:CZ	1:D:362:GLY:HA2	2.48	0.48
1:D:404:PRO:HD2	1:D:415:MLY:O	2.13	0.48
1:D:715:VAL:HG12	1:D:716:LEU:O	2.12	0.48
1:G:723:ARG:HH11	1:G:723:ARG:HG3	1.79	0.48
1:G:839:MLY:N	1:G:840:PRO:CD	2.75	0.48
2:H:137:TRP:CA	2:H:145:ALA:CB	2.82	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:471:ASP:HB3	1:J:573:GLY:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.48
1:S:295:MLY:HE2	1:S:332:MET:HE1	1.95	0.48
2:T:93:PRO:O	2:T:97:ILE:HG13	2.12	0.48
4:2:70:PRO:HG3	4:2:81:ASP:HB3	1.94	0.48
4:2:173:HIS:CD2	4:3:268:GLY:CA	2.92	0.48
4:6:120:THR:HG21	4:6:370:VAL:HG11	1.95	0.48
4:8:124:PHE:CZ	4:8:132:MET:HG3	2.48	0.48
4:V:124:PHE:CZ	4:V:132:MET:HG3	2.48	0.48
1:A:168:THR:HG22	1:A:169:ASP:OD1	2.12	0.48
1:A:173:GLN:OE1	1:A:668:HIS:HB3	2.13	0.48
1:A:237:THR:HG22	1:A:238:VAL:N	2.28	0.48
1:A:542:PHE:CD2	4:8:143:TYR:CD1	3.02	0.48
1:A:553:MLY:CG	4:V:47:MET:N	2.54	0.48
1:A:747:LEU:C	1:A:749:GLY:N	2.71	0.48
1:A:752:ASP:OD2	1:A:782:MLY:CG	2.61	0.48
2:B:117:LEU:HG	2:B:147:ASN:HB3	1.93	0.48
1:D:237:THR:HG22	1:D:238:VAL:N	2.28	0.48
1:D:251:ARG:HB2	1:D:264:ASP:HB3	1.94	0.48
1:D:476:GLU:H	1:D:476:GLU:CD	2.22	0.48
1:G:576:GLU:CG	1:G:577:ALA:N	2.44	0.48
1:J:251:ARG:HB2	1:J:264:ASP:HB3	1.95	0.48
1:M:84:MLY:HH22	1:M:719:ASP:HB3	1.95	0.48
1:M:173:GLN:OE1	1:M:668:HIS:HB3	2.13	0.48
1:M:547:ASP:O	1:M:550:PHE:HB3	2.12	0.48
1:M:601:ASP:N	1:M:602:PRO:CD	2.75	0.48
1:M:767:PHE:CD1	1:M:771:LEU:HB3	2.48	0.48
1:S:20:SER:HB3	1:S:23:GLU:OE1	2.13	0.48
1:S:251:ARG:O	1:S:263:ALA:HA	2.12	0.48
1:S:538:GLU:HA	4:2:351:THR:H	1.77	0.48
1:S:538:GLU:OE1	4:2:351:THR:HB	2.13	0.48
1:S:770:GLY:C	1:S:771:LEU:HA	2.32	0.48
1:S:829:TRP:CH2	2:T:83:MET:HE3	2.47	0.48
1:S:839:MLY:HB2	1:S:840:PRO:HD3	1.94	0.48
4:2:110:LEU:C	4:3:195:GLU:HG3	2.37	0.48
4:9:325:MET:HE2	4:W:244:ASP:HB3	1.94	0.48
4:Y:70:PRO:HG3	4:Y:81:ASP:HB3	1.94	0.48
4:Z:124:PHE:CZ	4:Z:132:MET:HG3	2.48	0.48
1:A:248:MLY:HE2	1:A:250:ILE:HD11	1.95	0.48
1:A:310:TYR:CE2	1:A:320:ILE:CD1	2.94	0.48
1:D:436:MLY:HE3	1:D:626:TYR:HE1	1.77	0.48
1:D:538:GLU:HA	4:9:351:THR:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:140:PHE:HB3	2:E:144:VAL:HG12	1.94	0.48
1:G:64:THR:CG2	1:G:65:GLU:N	2.76	0.48
1:G:556:ASP:OD1	4:X:47:MET:CE	2.27	0.48
1:G:753:VAL:HA	1:G:780:ASP:CG	2.29	0.48
2:H:128:PHE:O	2:H:133:ILE:HD11	2.13	0.48
1:J:22:LYS:O	1:J:26:GLU:N	2.30	0.48
1:J:97:LEU:HD13	1:J:97:LEU:N	2.27	0.48
1:M:20:SER:HB3	1:M:23:GLU:OE1	2.13	0.48
1:M:310:TYR:CE2	1:M:320:ILE:CD1	2.94	0.48
1:M:549:SER:C	4:2:45:VAL:O	2.56	0.48
1:M:756:THR:O	1:M:758:TYR:N	2.45	0.48
1:M:785:GLU:C	1:M:787:ILE:N	2.71	0.48
3:O:50:LEU:O	3:O:55:LYS:HB2	2.13	0.48
1:S:746:LYS:C	3:U:93:VAL:HG13	2.37	0.48
1:S:747:LEU:C	1:S:749:GLY:H	2.20	0.48
1:S:817:GLN:CG	2:T:127:ARG:HB2	2.39	0.48
2:T:140:PHE:HB3	2:T:144:VAL:HG12	1.94	0.48
4:1:70:PRO:HG3	4:1:81:ASP:HB3	1.94	0.48
4:1:202:THR:HG22	4:Y:285:CYS:O	2.14	0.48
4:1:253:GLU:HA	4:1:256:ARG:CG	2.42	0.48
4:2:213:LYS:O	4:2:217:CYS:HB2	2.13	0.48
4:7:253:GLU:HA	4:7:256:ARG:CG	2.42	0.48
4:8:120:THR:HG21	4:8:370:VAL:HG11	1.95	0.48
4:8:213:LYS:O	4:8:217:CYS:HB2	2.13	0.48
4:9:120:THR:HG21	4:9:370:VAL:HG11	1.95	0.48
4:9:213:LYS:O	4:9:217:CYS:HB2	2.13	0.48
1:A:87:MLY:HH12	1:A:87:MLY:HD3	1.62	0.48
1:A:314:TYR:CZ	1:A:362:GLY:HA2	2.48	0.48
1:D:312:TYR:N	1:D:312:TYR:CD1	2.81	0.48
1:D:675:ILE:CG2	1:D:676:ILE:N	2.74	0.48
1:D:767:PHE:CE1	1:D:778:MET:HE1	2.48	0.48
1:D:795:ARG:HD2	3:F:35:ARG:NH1	2.25	0.48
1:D:797:PHE:CD1	3:F:146:ILE:CA	2.96	0.48
3:F:50:LEU:O	3:F:55:LYS:HB2	2.13	0.48
1:G:97:LEU:HD13	1:G:97:LEU:N	2.28	0.48
1:G:295:MLY:HE2	1:G:332:MET:HE1	1.96	0.48
1:G:314:TYR:CZ	1:G:362:GLY:HA2	2.48	0.48
1:G:756:THR:O	1:G:758:TYR:N	2.46	0.48
1:J:237:THR:HG22	1:J:238:VAL:N	2.28	0.48
1:J:541:MET:SD	4:W:345:ILE:C	2.95	0.48
1:J:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:723:ARG:HH11	1:J:723:ARG:HG3	1.79	0.48
1:J:747:LEU:C	1:J:749:GLY:H	2.20	0.48
1:M:314:TYR:CZ	1:M:362:GLY:HA2	2.48	0.48
1:M:646:PHE:CE2	1:M:652:LEU:CD2	2.87	0.48
1:M:720:PHE:CD2	1:M:744:SER:HB3	2.48	0.48
1:M:798:LEU:HD21	3:O:122:GLU:HB3	1.93	0.48
1:S:312:TYR:N	1:S:312:TYR:CD1	2.81	0.48
1:S:354:LEU:HD12	1:S:354:LEU:HA	1.56	0.48
1:S:720:PHE:CD2	1:S:744:SER:HB3	2.48	0.48
1:S:795:ARG:CD	3:U:118:MET:HE1	2.17	0.48
4:2:287:ILE:HG21	4:4:203:THR:CG2	2.32	0.48
4:4:70:PRO:HG3	4:4:81:ASP:HB3	1.94	0.48
4:7:120:THR:HG21	4:7:370:VAL:HG11	1.95	0.48
4:7:287:ILE:HA	4:9:202:THR:HG21	1.59	0.48
4:V:213:LYS:O	4:V:217:CYS:HB2	2.13	0.48
4:W:120:THR:HG21	4:W:370:VAL:HG11	1.95	0.48
4:Z:198:TYR:CZ	4:Z:248:ILE:HG13	2.48	0.48
1:A:309:PRO:C	1:A:311:ASP:H	2.22	0.48
1:A:765:VAL:CG1	1:A:766:PHE:N	2.77	0.48
1:A:800:ARG:HD3	3:C:149:VAL:C	2.30	0.48
1:D:290:GLN:HG2	1:D:331:LEU:CA	2.43	0.48
1:D:727:LEU:CA	1:D:782:MLY:HH13	2.33	0.48
1:G:554:LEU:HD12	1:G:554:LEU:HA	1.77	0.48
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.95	0.48
1:M:64:THR:CG2	1:M:65:GLU:N	2.75	0.48
1:M:295:MLY:HE2	1:M:332:MET:HE1	1.95	0.48
1:S:278:GLN:HG3	1:S:318:GLY:H	1.75	0.48
1:S:617:MLY:O	1:S:620:ALA:HB3	2.14	0.48
1:S:715:VAL:O	1:S:764:MLY:HB3	2.12	0.48
1:S:797:PHE:CE2	3:U:126:LEU:HD22	2.43	0.48
1:S:800:ARG:HB3	3:U:149:VAL:HG22	1.95	0.48
4:5:124:PHE:CZ	4:5:132:MET:HG3	2.48	0.48
4:5:198:TYR:CZ	4:5:248:ILE:HG13	2.48	0.48
4:7:325:MET:HE2	4:9:244:ASP:HB3	1.94	0.48
4:8:288:ASP:CA	4:V:204:ALA:HB2	2.32	0.48
4:W:213:LYS:O	4:W:217:CYS:HB2	2.13	0.48
4:W:285:CYS:O	4:Y:202:THR:HG22	2.14	0.48
4:Y:198:TYR:CZ	4:Y:248:ILE:HG13	2.48	0.48
4:Z:213:LYS:O	4:Z:217:CYS:HB2	2.13	0.48
1:A:251:ARG:HB2	1:A:264:ASP:HB3	1.95	0.48
1:A:406:VAL:CG1	1:A:407:GLY:N	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:MLY:CG	1:A:741:LYS:NZ	2.59	0.48
1:A:549:SER:C	4:V:45:VAL:O	2.56	0.48
1:A:831:TRP:CZ2	2:B:47:LEU:CD2	2.97	0.48
1:D:617:MLY:O	1:D:620:ALA:HB3	2.14	0.48
1:D:733:PRO:O	1:D:737:PHE:CE1	2.53	0.48
1:D:765:VAL:CG1	1:D:766:PHE:N	2.77	0.48
1:D:814:PHE:CE1	2:E:127:ARG:NH1	2.71	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:689:GLU:O	1:G:689:GLU:HG2	2.14	0.48
1:G:739:ASP:OD1	1:G:740:SER:N	2.45	0.48
1:G:815:CYS:SG	2:H:92:ASP:OD1	2.72	0.48
1:J:476:GLU:CD	1:J:476:GLU:H	2.21	0.48
1:J:541:MET:HE2	4:W:346:LEU:HD12	1.96	0.48
1:J:689:GLU:O	1:J:689:GLU:HG2	2.14	0.48
1:M:248:MLY:HE2	1:M:250:ILE:HD11	1.95	0.48
1:M:804:ARG:CA	1:M:807:VAL:HB	2.43	0.48
1:M:829:TRP:CZ3	2:N:84:PHE:CE1	3.02	0.48
1:S:134:VAL:C	1:S:136:ASN:H	2.16	0.48
1:S:173:GLN:OE1	1:S:668:HIS:HB3	2.13	0.48
1:S:237:THR:HG22	1:S:238:VAL:N	2.28	0.48
1:S:290:GLN:HG2	1:S:331:LEU:CA	2.43	0.48
1:S:405:ARG:HB2	1:S:414:THR:OG1	2.13	0.48
1:S:759:ALA:O	1:S:766:PHE:N	2.32	0.48
1:S:831:TRP:HE1	2:T:67:MET:HG2	1.79	0.48
4:1:213:LYS:O	4:1:217:CYS:HB2	2.13	0.48
4:Y:213:LYS:O	4:Y:217:CYS:HB2	2.13	0.48
2:B:128:PHE:O	2:B:133:ILE:HD11	2.13	0.48
1:D:295:MLY:HE2	1:D:332:MET:HE1	1.95	0.48
1:D:541:MET:HE2	4:9:346:LEU:HD12	1.96	0.48
1:D:550:PHE:CE2	1:D:592:ILE:CG2	2.97	0.48
1:D:553:MLY:HG3	4:W:44:MET:O	2.07	0.48
1:G:10:PHE:CD2	1:G:17:LEU:HD23	2.49	0.48
1:G:405:ARG:HB2	1:G:414:THR:OG1	2.13	0.48
1:G:503:TYR:CZ	1:G:711:PHE:HE2	2.29	0.48
1:G:830:PRO:HB3	2:H:67:MET:CE	2.43	0.48
1:G:838:ILE:CD1	2:H:54:MET:HE1	2.20	0.48
1:M:10:PHE:CD2	1:M:17:LEU:HD23	2.49	0.48
1:M:237:THR:HG22	1:M:238:VAL:N	2.28	0.48
1:M:251:ARG:HB2	1:M:264:ASP:HB3	1.95	0.48
1:M:312:TYR:N	1:M:312:TYR:CD1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:410:ASN:HA	4:Z:334:GLU:HB3	1.29	0.48
1:M:643:GLY:N	4:Z:24:ASP:CA	2.46	0.48
1:S:149:GLN:CG	1:S:763:THR:HG23	2.44	0.48
1:S:314:TYR:CZ	1:S:362:GLY:HA2	2.48	0.48
1:S:797:PHE:CE1	3:U:146:ILE:HG23	2.48	0.48
4:3:250:ILE:HG23	4:3:253:GLU:HG2	1.96	0.48
4:8:250:ILE:HG23	4:8:253:GLU:HG2	1.96	0.48
4:V:120:THR:HG21	4:V:370:VAL:HG11	1.95	0.48
4:W:124:PHE:CZ	4:W:132:MET:HG3	2.48	0.48
4:W:250:ILE:HG23	4:W:253:GLU:HG2	1.96	0.48
1:A:202:SER:HA	1:A:207:LYS:NZ	2.22	0.48
1:D:410:ASN:HD22	4:9:336:LYS:HE2	1.78	0.48
1:D:595:TRP:N	1:D:595:TRP:CD1	2.80	0.48
1:D:712:PRO:HG2	1:D:771:LEU:CD1	2.43	0.48
1:J:720:PHE:CD2	1:J:744:SER:HB3	2.48	0.48
1:J:732:ILE:H	1:J:733:PRO:HD2	1.74	0.48
1:M:309:PRO:C	1:M:311:ASP:H	2.22	0.48
1:M:406:VAL:CG1	1:M:407:GLY:N	2.77	0.48
1:M:541:MET:SD	4:Z:345:ILE:C	2.95	0.48
1:M:747:LEU:C	1:M:749:GLY:N	2.71	0.48
2:N:140:PHE:HB3	2:N:144:VAL:HG12	1.94	0.48
1:S:689:GLU:O	1:S:689:GLU:HG2	2.14	0.48
1:S:797:PHE:CE1	3:U:149:VAL:HG11	2.45	0.48
4:1:287:ILE:HG21	4:3:202:THR:OG1	2.04	0.48
4:9:250:ILE:HG23	4:9:253:GLU:HG2	1.96	0.48
4:X:213:LYS:O	4:X:217:CYS:HB2	2.13	0.48
1:A:404:PRO:HD2	1:A:415:MLY:O	2.13	0.48
1:A:410:ASN:HD22	4:8:336:LYS:HE2	1.78	0.48
1:A:499:GLU:OE1	1:A:499:GLU:HA	2.13	0.48
1:A:546:THR:CG2	1:A:547:ASP:N	2.77	0.48
1:A:723:ARG:HH11	1:A:723:ARG:HG3	1.79	0.48
2:B:112:ILE:CG2	2:B:147:ASN:O	2.62	0.48
1:D:214:MET:HA	1:D:340:ILE:CD1	2.41	0.48
1:D:712:PRO:HG2	1:D:771:LEU:CG	2.40	0.48
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.48
2:E:112:ILE:CG2	2:E:147:ASN:O	2.62	0.48
2:E:123:THR:CA	3:F:19:ARG:HH22	2.07	0.48
1:G:202:SER:HA	1:G:207:LYS:NZ	2.22	0.48
1:G:215:GLN:H	1:G:340:ILE:CD1	2.20	0.48
1:G:251:ARG:HB2	1:G:264:ASP:HB3	1.95	0.48
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:789:ALA:CB	3:I:81:GLN:NE2	2.76	0.48
1:J:10:PHE:CD2	1:J:17:LEU:HD23	2.49	0.48
1:J:725:ARG:NE	1:J:733:PRO:CB	1.95	0.48
1:M:602:PRO:O	1:M:603:LEU:HD12	2.14	0.48
1:S:404:PRO:HD2	1:S:415:MLY:O	2.13	0.48
1:S:410:ASN:HD22	4:2:336:LYS:HE2	1.78	0.48
1:S:499:GLU:OE1	1:S:499:GLU:HA	2.13	0.48
1:S:541:MET:HE2	4:2:346:LEU:HD12	1.96	0.48
1:S:546:THR:CG2	1:S:547:ASP:N	2.77	0.48
4:4:250:ILE:HG23	4:4:253:GLU:HG2	1.96	0.48
4:7:250:ILE:HG23	4:7:253:GLU:HG2	1.96	0.48
4:V:250:ILE:HG23	4:V:253:GLU:HG2	1.96	0.48
4:Y:250:ILE:HG23	4:Y:253:GLU:HG2	1.96	0.48
4:Z:120:THR:HG21	4:Z:370:VAL:HG11	1.95	0.48
1:A:166:MET:HE3	1:A:459:ILE:HG13	1.96	0.48
1:A:175:ILE:C	1:A:176:LEU:HD12	2.38	0.48
1:A:504:MLY:HB2	1:A:762:HIS:NE2	2.29	0.48
1:A:797:PHE:CD1	3:C:146:ILE:HA	2.37	0.48
1:D:541:MET:SD	4:9:345:ILE:C	2.95	0.48
1:D:546:THR:CG2	1:D:547:ASP:N	2.77	0.48
1:D:549:SER:C	4:W:45:VAL:O	2.57	0.48
1:J:839:MLY:HB2	1:J:840:PRO:HD3	1.94	0.48
2:K:128:PHE:O	2:K:133:ILE:HD11	2.13	0.48
1:M:476:GLU:CD	1:M:476:GLU:H	2.22	0.48
1:M:541:MET:HE2	4:Z:346:LEU:HD12	1.96	0.48
1:S:97:LEU:HD13	1:S:97:LEU:N	2.28	0.48
1:S:541:MET:SD	4:2:345:ILE:C	2.95	0.48
4:1:198:TYR:CZ	4:1:248:ILE:HG13	2.48	0.48
4:1:250:ILE:HG23	4:1:253:GLU:HG2	1.96	0.48
4:2:253:GLU:HA	4:2:256:ARG:CG	2.42	0.48
4:4:287:ILE:HG23	4:6:202:THR:HB	0.99	0.48
4:5:120:THR:HG21	4:5:370:VAL:HG11	1.95	0.48
4:V:198:TYR:CZ	4:V:248:ILE:HG13	2.48	0.48
4:X:120:THR:HG21	4:X:370:VAL:HG11	1.95	0.48
4:X:324:THR:O	4:Z:245:GLY:C	2.56	0.48
1:A:10:PHE:CD2	1:A:17:LEU:HD23	2.49	0.47
1:A:405:ARG:HB2	1:A:414:THR:OG1	2.13	0.47
1:A:502:GLU:CD	1:A:761:GLY:N	2.70	0.47
1:A:564:ASN:HD22	1:A:582:VAL:HB	1.79	0.47
1:A:617:MLY:O	1:A:620:ALA:HB3	2.14	0.47
1:A:747:LEU:C	1:A:749:GLY:H	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:578:HIS:HB3	1:D:592:ILE:CD1	2.38	0.47
1:G:218:LEU:HA	1:G:221:GLN:H	1.79	0.47
1:G:499:GLU:OE1	1:G:499:GLU:HA	2.13	0.47
1:G:640:LYS:HD2	1:G:646:PHE:O	2.15	0.47
1:G:747:LEU:C	1:G:749:GLY:N	2.71	0.47
1:J:175:ILE:C	1:J:176:LEU:HD12	2.39	0.47
1:J:546:THR:CG2	1:J:547:ASP:N	2.77	0.47
1:J:617:MLY:O	1:J:620:ALA:HB3	2.14	0.47
1:M:84:MLY:HB3	1:M:723:ARG:CD	2.44	0.47
1:M:405:ARG:HB2	1:M:414:THR:OG1	2.13	0.47
1:M:410:ASN:HD22	4:Z:336:LYS:HE2	1.78	0.47
1:M:640:LYS:HB3	1:M:645:SER:CB	2.42	0.47
1:M:765:VAL:CG1	1:M:766:PHE:N	2.77	0.47
1:S:10:PHE:CD2	1:S:17:LEU:HD23	2.49	0.47
1:S:476:GLU:CD	1:S:476:GLU:H	2.21	0.47
1:S:568:PRO:HD3	1:S:579:PHE:HA	1.96	0.47
1:S:732:ILE:H	1:S:733:PRO:CD	2.23	0.47
4:1:202:THR:CG2	4:Y:285:CYS:O	2.62	0.47
4:2:250:ILE:HG23	4:2:253:GLU:HG2	1.96	0.47
4:5:250:ILE:HG23	4:5:253:GLU:HG2	1.96	0.47
4:6:213:LYS:O	4:6:217:CYS:HB2	2.13	0.47
4:7:124:PHE:CZ	4:7:132:MET:HG3	2.48	0.47
4:9:124:PHE:CZ	4:9:132:MET:HG3	2.48	0.47
4:V:285:CYS:O	4:X:202:THR:HG22	2.14	0.47
4:X:324:THR:CG2	4:Z:247:VAL:H	2.27	0.47
1:A:122:PHE:CE2	1:A:700:VAL:HA	2.49	0.47
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.96	0.47
1:A:642:LYS:HB2	4:8:24:ASP:O	1.88	0.47
1:A:708:ARG:HA	1:A:712:PRO:HA	1.96	0.47
1:A:783:LEU:HA	1:A:786:ILE:HB	1.97	0.47
1:D:106:LEU:HD12	1:D:117:THR:HG21	1.96	0.47
1:D:175:ILE:C	1:D:176:LEU:HD12	2.39	0.47
1:D:402:CYS:C	1:D:404:PRO:HD3	2.40	0.47
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	0.47
1:D:542:PHE:CD2	4:9:143:TYR:CD1	3.02	0.47
1:D:759:ALA:O	1:D:766:PHE:N	2.32	0.47
3:F:53:PRO:O	3:F:55:LYS:HG3	2.14	0.47
1:G:94:MET:O	1:G:713:SER:CB	2.61	0.47
1:G:122:PHE:CE2	1:G:700:VAL:HA	2.50	0.47
1:G:166:MET:HE3	1:G:459:ILE:HG13	1.97	0.47
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:312:TYR:N	1:G:312:TYR:CD1	2.81	0.47
1:G:404:PRO:HD2	1:G:415:MLY:O	2.13	0.47
1:G:410:ASN:HD22	4:V:336:LYS:HE2	1.79	0.47
1:G:546:THR:CG2	1:G:547:ASP:N	2.77	0.47
1:J:715:VAL:HG11	1:J:720:PHE:CD1	2.49	0.47
1:J:799:MET:CE	3:L:32:ASP:HB3	2.44	0.47
1:M:332:MET:O	1:M:336:SER:OG	2.27	0.47
1:M:436:MLY:HE3	1:M:626:TYR:HE1	1.77	0.47
1:M:617:MLY:O	1:M:620:ALA:HB3	2.14	0.47
1:M:689:GLU:O	1:M:689:GLU:HG2	2.14	0.47
2:N:128:PHE:O	2:N:133:ILE:HD11	2.13	0.47
2:N:144:VAL:HG12	2:N:153:ILE:HD11	1.75	0.47
1:S:206:LYS:HD2	1:S:217:THR:CG2	2.17	0.47
1:S:218:LEU:HA	1:S:221:GLN:H	1.79	0.47
1:S:731:ALA:HB2	3:U:94:PHE:HB2	1.96	0.47
3:U:49:ILE:CA	3:U:52:ASN:ND2	2.54	0.47
4:6:217:CYS:C	4:6:218:TYR:HD1	2.23	0.47
4:Z:250:ILE:HG23	4:Z:253:GLU:HG2	1.96	0.47
1:A:41:VAL:CG1	1:A:42:HIS:N	2.76	0.47
1:A:97:LEU:HD23	1:A:712:PRO:CA	2.44	0.47
1:A:106:LEU:HD12	1:A:117:THR:HG21	1.96	0.47
1:A:550:PHE:C	4:V:46:GLY:CA	2.87	0.47
1:A:640:LYS:HD2	1:A:646:PHE:O	2.14	0.47
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.47
1:D:218:LEU:HA	1:D:221:GLN:H	1.79	0.47
1:D:499:GLU:OE1	1:D:499:GLU:HA	2.13	0.47
1:D:732:ILE:HG23	1:D:747:LEU:HD12	0.95	0.47
1:G:237:THR:HG22	1:G:238:VAL:N	2.28	0.47
1:G:634:GLY:N	4:V:25:ASP:O	2.31	0.47
1:G:765:VAL:CG1	1:G:766:PHE:N	2.77	0.47
1:G:799:MET:SD	3:I:32:ASP:CG	2.97	0.47
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.44	0.47
3:I:48:LYS:C	3:I:52:ASN:HD22	1.97	0.47
1:J:166:MET:HE3	1:J:459:ILE:HG13	1.96	0.47
1:J:309:PRO:C	1:J:311:ASP:H	2.22	0.47
1:J:402:CYS:C	1:J:404:PRO:HD3	2.40	0.47
1:J:406:VAL:CG1	1:J:407:GLY:N	2.77	0.47
1:J:542:PHE:CD2	4:W:143:TYR:CD1	3.02	0.47
1:J:568:PRO:HD3	1:J:579:PHE:HA	1.96	0.47
1:J:632:GLY:HA3	1:J:643:GLY:N	2.17	0.47
1:J:765:VAL:CG1	1:J:766:PHE:N	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:769:ALA:HB3	1:J:770:GLY:HA3	1.94	0.47
1:M:218:LEU:HA	1:M:221:GLN:H	1.79	0.47
1:M:404:PRO:HD2	1:M:415:MLY:O	2.13	0.47
1:M:499:GLU:HA	1:M:499:GLU:OE1	2.13	0.47
1:M:797:PHE:HE2	3:O:126:LEU:HD23	1.70	0.47
1:S:310:TYR:CE2	1:S:320:ILE:CD1	2.94	0.47
1:S:550:PHE:CE2	1:S:592:ILE:CG2	2.97	0.47
1:S:643:GLY:N	4:2:23:GLY:C	2.55	0.47
1:S:643:GLY:CA	4:2:24:ASP:OD1	2.61	0.47
1:S:725:ARG:NE	1:S:733:PRO:CB	1.95	0.47
4:4:217:CYS:C	4:4:218:TYR:HD1	2.22	0.47
4:5:217:CYS:C	4:5:218:TYR:HD1	2.23	0.47
4:6:250:ILE:HG23	4:6:253:GLU:HG2	1.96	0.47
4:7:213:LYS:O	4:7:217:CYS:HB2	2.13	0.47
4:V:285:CYS:O	4:X:202:THR:CG2	2.62	0.47
1:A:798:LEU:HD12	1:A:798:LEU:HA	1.37	0.47
1:A:798:LEU:CG	3:C:126:LEU:HD11	2.43	0.47
2:B:160:GLY:O	2:B:161:GLU:HG2	2.14	0.47
1:D:136:ASN:O	1:D:139:VAL:N	2.47	0.47
1:D:400:ALA:HB1	1:D:606:THR:CG2	2.45	0.47
1:D:524:GLU:HB3	1:D:528:MLY:HG2	1.96	0.47
1:D:564:ASN:HD22	1:D:582:VAL:HB	1.79	0.47
1:D:568:PRO:HD3	1:D:579:PHE:HA	1.96	0.47
1:D:720:PHE:CD2	1:D:744:SER:HB3	2.48	0.47
1:D:795:ARG:CZ	3:F:43:ASN:OD1	2.61	0.47
1:G:406:VAL:CG1	1:G:407:GLY:N	2.77	0.47
1:G:541:MET:HE2	4:V:346:LEU:HD12	1.96	0.47
1:G:636:LYS:O	4:V:144:ALA:HB1	2.14	0.47
1:J:436:MLY:HE3	1:J:626:TYR:HE1	1.77	0.47
1:J:499:GLU:OE1	1:J:499:GLU:HA	2.13	0.47
2:K:112:ILE:CG2	2:K:147:ASN:O	2.62	0.47
3:L:50:LEU:O	3:L:55:LYS:HB2	2.13	0.47
1:M:169:ASP:OD1	1:M:169:ASP:N	2.44	0.47
1:M:402:CYS:C	1:M:404:PRO:HD3	2.40	0.47
1:M:636:LYS:O	4:Z:144:ALA:HB1	2.14	0.47
1:M:821:ARG:NH2	2:N:127:ARG:NE	2.63	0.47
3:O:53:PRO:O	3:O:55:LYS:HG3	2.15	0.47
1:S:248:MLY:HE2	1:S:250:ILE:HD11	1.95	0.47
1:S:747:LEU:C	1:S:749:GLY:N	2.71	0.47
4:2:120:THR:HG21	4:2:370:VAL:HG11	1.95	0.47
4:2:287:ILE:CB	4:4:203:THR:H	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:217:CYS:C	4:3:218:TYR:HD1	2.22	0.47
4:8:198:TYR:CZ	4:8:248:ILE:HG13	2.48	0.47
4:X:250:ILE:HG23	4:X:253:GLU:HG2	1.96	0.47
1:A:449:LEU:HA	1:A:449:LEU:HD12	1.60	0.47
1:A:797:PHE:CD1	3:C:149:VAL:HG11	2.50	0.47
1:D:602:PRO:O	1:D:603:LEU:HD12	2.14	0.47
1:D:640:LYS:HD2	1:D:646:PHE:O	2.14	0.47
1:D:664:LEU:HD12	1:D:664:LEU:HA	1.53	0.47
1:G:602:PRO:O	1:G:603:LEU:HD12	2.14	0.47
1:G:617:MLY:O	1:G:620:ALA:HB3	2.14	0.47
2:H:112:ILE:CG2	2:H:147:ASN:O	2.62	0.47
1:J:602:PRO:O	1:J:603:LEU:HD12	2.14	0.47
1:J:636:LYS:O	4:W:144:ALA:HB1	2.14	0.47
1:J:642:LYS:CB	4:W:24:ASP:O	2.60	0.47
1:J:747:LEU:C	1:J:749:GLY:N	2.71	0.47
1:J:795:ARG:HD2	3:L:43:ASN:H	1.80	0.47
1:M:97:LEU:HD13	1:M:97:LEU:N	2.28	0.47
1:M:122:PHE:CE2	1:M:700:VAL:HA	2.50	0.47
1:M:568:PRO:HD3	1:M:579:PHE:HA	1.96	0.47
1:M:640:LYS:HD2	1:M:646:PHE:O	2.15	0.47
1:M:675:ILE:CG2	1:M:676:ILE:N	2.74	0.47
2:N:112:ILE:CG2	2:N:147:ASN:O	2.62	0.47
1:S:169:ASP:OD1	1:S:169:ASP:N	2.44	0.47
1:S:175:ILE:C	1:S:176:LEU:HD12	2.39	0.47
1:S:251:ARG:HB2	1:S:264:ASP:HB3	1.95	0.47
1:S:410:ASN:HA	4:2:334:GLU:HB3	1.29	0.47
1:S:636:LYS:O	4:2:144:ALA:HB1	2.14	0.47
1:S:640:LYS:HB3	1:S:645:SER:CB	2.42	0.47
1:S:797:PHE:CZ	3:U:146:ILE:HD12	2.23	0.47
2:T:137:TRP:CA	2:T:145:ALA:HB2	2.37	0.47
4:1:120:THR:HG21	4:1:370:VAL:HG11	1.95	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
4:4:120:THR:HG21	4:4:370:VAL:HG11	1.95	0.47
4:4:253:GLU:HA	4:4:256:ARG:CG	2.42	0.47
4:9:162:ASN:OD1	4:9:277:THR:HG22	2.15	0.47
4:Y:120:THR:HG21	4:Y:370:VAL:HG11	1.95	0.47
1:A:218:LEU:HA	1:A:221:GLN:H	1.79	0.47
1:A:278:GLN:HE21	1:A:278:GLN:HB3	1.42	0.47
1:A:602:PRO:O	1:A:603:LEU:HD12	2.14	0.47
1:A:831:TRP:HZ3	2:B:34:ILE:HG12	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:834:LEU:CD2	2:B:54:MET:SD	2.94	0.47
3:C:53:PRO:O	3:C:55:LYS:HG3	2.15	0.47
1:D:144:ARG:HA	1:D:144:ARG:HD2	1.78	0.47
1:D:689:GLU:O	1:D:689:GLU:HG2	2.14	0.47
1:D:814:PHE:HE1	2:E:127:ARG:NH2	2.12	0.47
1:G:176:LEU:N	1:G:176:LEU:CD1	2.75	0.47
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.47
1:G:550:PHE:CE2	1:G:592:ILE:CG2	2.97	0.47
1:G:629:GLU:CB	1:G:645:SER:N	2.74	0.47
1:J:122:PHE:CE2	1:J:700:VAL:HA	2.50	0.47
1:J:400:ALA:HB1	1:J:606:THR:CG2	2.45	0.47
1:J:818:TYR:CE1	2:K:127:ARG:NH1	2.74	0.47
1:M:546:THR:CG2	1:M:547:ASP:N	2.77	0.47
1:M:804:ARG:C	1:M:807:VAL:HB	2.40	0.47
1:S:402:CYS:C	1:S:404:PRO:HD3	2.40	0.47
1:S:406:VAL:CG1	1:S:407:GLY:N	2.77	0.47
1:S:542:PHE:CD2	4:2:143:TYR:CD1	3.02	0.47
1:S:602:PRO:O	1:S:603:LEU:HD12	2.14	0.47
2:T:112:ILE:CG2	2:T:147:ASN:O	2.62	0.47
4:1:217:CYS:C	4:1:218:TYR:HD1	2.23	0.47
4:3:162:ASN:OD1	4:3:277:THR:HG22	2.15	0.47
4:3:213:LYS:O	4:3:217:CYS:HB2	2.13	0.47
4:4:162:ASN:OD1	4:4:277:THR:HG22	2.15	0.47
4:8:162:ASN:OD1	4:8:277:THR:HG22	2.15	0.47
4:V:162:ASN:OD1	4:V:277:THR:HG22	2.15	0.47
4:W:286:ASP:HA	4:Y:202:THR:HG22	1.63	0.47
4:Y:162:ASN:OD1	4:Y:277:THR:HG22	2.15	0.47
1:A:188:ASN:ND2	1:A:674:CYS:SG	2.88	0.47
1:A:411:GLU:H	4:8:333:PRO:HB2	1.80	0.47
1:A:559:LEU:HD23	1:A:560:GLY:N	2.30	0.47
1:A:595:TRP:N	1:A:595:TRP:CD1	2.80	0.47
1:A:636:LYS:O	4:8:144:ALA:HB1	2.15	0.47
1:A:695:LEU:HB3	1:A:701:LEU:HD22	1.97	0.47
1:D:10:PHE:CD2	1:D:17:LEU:HD23	2.49	0.47
1:D:154:HIS:CE1	1:D:156:PHE:CE2	3.02	0.47
1:D:188:ASN:ND2	1:D:674:CYS:SG	2.88	0.47
1:D:202:SER:HA	1:D:207:LYS:NZ	2.23	0.47
1:D:506:GLU:HG3	1:D:764:MLY:HE3	1.96	0.47
1:D:643:GLY:N	4:9:23:GLY:C	2.55	0.47
1:D:723:ARG:HE	1:D:779:ARG:HG3	1.80	0.47
1:D:783:LEU:HA	1:D:786:ILE:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:ARG:CD	3:F:149:VAL:O	2.63	0.47
1:G:154:HIS:CE1	1:G:156:PHE:CE2	3.02	0.47
1:G:411:GLU:H	4:V:333:PRO:HB2	1.80	0.47
1:G:506:GLU:HG2	1:G:759:ALA:HB1	1.97	0.47
1:G:542:PHE:CD2	4:V:143:TYR:CD1	3.03	0.47
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.24	0.47
2:H:144:VAL:HG12	2:H:153:ILE:HD13	1.92	0.47
2:H:160:GLY:O	2:H:161:GLU:HG2	2.15	0.47
1:J:106:LEU:HD12	1:J:117:THR:HG21	1.96	0.47
1:J:154:HIS:CE1	1:J:156:PHE:CE2	3.02	0.47
1:J:248:MLY:HE2	1:J:250:ILE:HD11	1.95	0.47
1:J:524:GLU:HB3	1:J:528:MLY:HG2	1.97	0.47
1:J:578:HIS:HB3	1:J:592:ILE:CD1	2.38	0.47
1:J:640:LYS:HD2	1:J:646:PHE:O	2.15	0.47
1:J:675:ILE:CG2	1:J:676:ILE:N	2.74	0.47
2:K:137:TRP:CZ3	2:K:145:ALA:N	2.81	0.47
1:M:166:MET:HE3	1:M:459:ILE:HG13	1.96	0.47
1:M:175:ILE:C	1:M:176:LEU:HD12	2.39	0.47
1:M:723:ARG:HH11	1:M:723:ARG:HG3	1.78	0.47
1:S:87:MLY:HD3	1:S:87:MLY:HH12	1.61	0.47
1:S:176:LEU:N	1:S:176:LEU:CD1	2.75	0.47
1:S:309:PRO:C	1:S:311:ASP:H	2.22	0.47
1:S:727:LEU:HD22	1:S:783:LEU:HD22	1.96	0.47
4:2:217:CYS:C	4:2:218:TYR:HD1	2.23	0.47
4:3:120:THR:HG21	4:3:370:VAL:HG11	1.95	0.47
4:3:198:TYR:CZ	4:3:248:ILE:HG13	2.48	0.47
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.47
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.47
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.23	0.47
1:A:332:MET:O	1:A:336:SER:OG	2.27	0.47
1:A:554:LEU:HD12	1:A:554:LEU:HA	1.76	0.47
1:A:646:PHE:HE2	1:A:652:LEU:CG	2.24	0.47
1:D:166:MET:HE3	1:D:459:ILE:HG13	1.96	0.47
1:D:507:GLY:HA2	1:D:762:HIS:ND1	2.30	0.47
1:D:723:ARG:HH11	1:D:723:ARG:HG3	1.79	0.47
2:E:137:TRP:CA	2:E:145:ALA:HB2	2.38	0.47
1:G:106:LEU:HD12	1:G:117:THR:HG21	1.96	0.47
1:G:136:ASN:O	1:G:139:VAL:N	2.47	0.47
1:G:538:GLU:HA	4:V:351:THR:H	1.77	0.47
1:G:640:LYS:HB3	1:G:645:SER:CB	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.47
1:J:84:MLY:CH1	1:J:715:VAL:HG21	2.44	0.47
1:J:218:LEU:HA	1:J:221:GLN:H	1.80	0.47
1:J:406:VAL:CG1	1:J:407:GLY:H	2.28	0.47
1:J:817:GLN:CD	2:K:127:ARG:HG3	2.40	0.47
2:K:160:GLY:O	2:K:161:GLU:HG2	2.14	0.47
1:M:106:LEU:HD12	1:M:117:THR:HG21	1.96	0.47
1:M:278:GLN:HE21	1:M:278:GLN:HB3	1.42	0.47
1:M:542:PHE:CD2	4:Z:143:TYR:CD1	3.02	0.47
1:M:695:LEU:HB3	1:M:701:LEU:HD22	1.97	0.47
1:M:805:ALA:O	1:M:807:VAL:C	2.58	0.47
4:2:287:ILE:CD1	4:4:203:THR:HB	2.44	0.47
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.47
4:W:217:CYS:C	4:W:218:TYR:HD1	2.23	0.47
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.47
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.47
1:A:476:GLU:H	1:A:476:GLU:CD	2.22	0.47
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.47
1:A:543:PRO:HD2	4:8:146:GLY:O	2.15	0.47
1:A:550:PHE:CE2	1:A:592:ILE:CG2	2.97	0.47
1:A:689:GLU:O	1:A:689:GLU:HG2	2.14	0.47
1:D:248:MLY:HE2	1:D:250:ILE:HD11	1.96	0.47
1:D:311:ASP:CB	1:D:312:TYR:CE1	2.98	0.47
1:D:714:ARG:HD3	1:D:766:PHE:CE2	2.50	0.47
2:E:160:GLY:O	2:E:161:GLU:HG2	2.14	0.47
1:G:41:VAL:CG1	1:G:42:HIS:N	2.75	0.47
1:G:559:LEU:HD23	1:G:560:GLY:N	2.30	0.47
3:I:53:PRO:O	3:I:55:LYS:HG3	2.14	0.47
1:J:543:PRO:HD2	4:W:146:GLY:O	2.15	0.47
1:J:795:ARG:HE	3:L:116:GLU:CB	2.28	0.47
1:M:154:HIS:CE1	1:M:156:PHE:CE2	3.02	0.47
1:S:564:ASN:HD22	1:S:582:VAL:HB	1.79	0.47
1:S:640:LYS:HD2	1:S:646:PHE:O	2.15	0.47
1:S:762:HIS:CD2	1:S:762:HIS:N	2.78	0.47
1:S:765:VAL:CG1	1:S:766:PHE:N	2.77	0.47
1:S:795:ARG:HB2	3:U:35:ARG:CZ	2.40	0.47
4:2:287:ILE:HG21	4:4:203:THR:CA	2.44	0.47
4:5:162:ASN:OD1	4:5:277:THR:HG22	2.15	0.47
4:6:162:ASN:OD1	4:6:277:THR:HG22	2.15	0.47
4:6:253:GLU:HA	4:6:256:ARG:CG	2.42	0.47
4:7:217:CYS:C	4:7:218:TYR:HD1	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:217:CYS:C	4:9:218:TYR:HD1	2.23	0.47
4:W:285:CYS:O	4:Y:202:THR:CG2	2.62	0.47
1:A:732:ILE:H	1:A:733:PRO:HD2	1.74	0.47
1:A:793:ARG:O	1:A:797:PHE:N	2.40	0.47
2:B:88:LEU:HB3	2:B:91:ALA:HB2	1.97	0.47
1:D:406:VAL:CG1	1:D:407:GLY:H	2.28	0.47
1:D:543:PRO:HD2	4:9:146:GLY:O	2.15	0.47
1:D:559:LEU:HD23	1:D:560:GLY:N	2.30	0.47
1:D:818:TYR:HB3	2:E:90:GLY:C	2.26	0.47
1:G:97:LEU:HD12	1:G:97:LEU:HA	1.67	0.47
1:G:510:TRP:CZ2	1:G:768:MLY:HH11	2.50	0.47
1:J:42:HIS:O	1:J:45:GLN:O	2.33	0.47
1:J:188:ASN:ND2	1:J:674:CYS:SG	2.88	0.47
1:J:311:ASP:CB	1:J:312:TYR:CE1	2.98	0.47
1:J:538:GLU:HA	4:W:351:THR:H	1.77	0.47
1:J:559:LEU:HD23	1:J:560:GLY:N	2.30	0.47
1:J:715:VAL:CG1	1:J:720:PHE:HB2	2.45	0.47
1:J:732:ILE:CG2	1:J:747:LEU:HD12	0.35	0.47
1:M:550:PHE:CE2	1:M:592:ILE:CG2	2.97	0.47
1:M:783:LEU:CD1	1:M:783:LEU:N	2.78	0.47
1:M:800:ARG:HD2	3:O:149:VAL:C	2.40	0.47
2:N:160:GLY:O	2:N:161:GLU:HG2	2.14	0.47
1:S:122:PHE:CE2	1:S:700:VAL:HA	2.50	0.47
1:S:154:HIS:CE1	1:S:156:PHE:CE2	3.02	0.47
4:4:322:PRO:CA	4:6:244:ASP:HB2	2.45	0.47
4:8:217:CYS:C	4:8:218:TYR:HD1	2.23	0.47
4:8:288:ASP:CG	4:V:203:THR:C	2.83	0.47
1:A:406:VAL:CG1	1:A:407:GLY:H	2.28	0.46
1:A:524:GLU:HB3	1:A:528:MLY:HG2	1.96	0.46
1:A:724:TYR:HD1	1:A:727:LEU:CD1	2.27	0.46
1:D:332:MET:O	1:D:336:SER:OG	2.27	0.46
1:D:406:VAL:CG1	1:D:407:GLY:N	2.77	0.46
1:D:793:ARG:O	1:D:797:PHE:N	2.39	0.46
3:F:50:LEU:O	3:F:53:PRO:CD	2.63	0.46
1:G:695:LEU:HB3	1:G:701:LEU:HD22	1.97	0.46
1:G:715:VAL:CG1	1:G:720:PHE:HB2	2.46	0.46
1:J:84:MLY:CH1	1:J:720:PHE:CE1	2.82	0.46
1:J:84:MLY:N	1:J:723:ARG:NE	2.34	0.46
1:J:218:LEU:HD22	1:J:222:ILE:HG13	1.95	0.46
1:J:496:PHE:CE2	1:J:514:ASP:HA	2.50	0.46
1:J:540:CYS:N	4:W:349:LEU:HD11	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:505:MLY:HG3	1:M:762:HIS:CE1	2.49	0.46
1:M:712:PRO:HB2	1:M:713:SER:H	1.61	0.46
1:M:797:PHE:CD2	3:O:126:LEU:HD22	2.49	0.46
2:N:117:LEU:CG	2:N:147:ASN:OD1	2.52	0.46
1:S:136:ASN:HA	1:S:137:PRO:HD3	1.50	0.46
3:U:50:LEU:O	3:U:53:PRO:CD	2.63	0.46
3:U:53:PRO:O	3:U:55:LYS:HG3	2.15	0.46
4:3:253:GLU:HA	4:3:256:ARG:CG	2.42	0.46
1:A:374:GLN:NE2	1:A:403:TYR:CE1	2.84	0.46
1:A:543:PRO:CD	4:8:143:TYR:O	2.64	0.46
1:A:568:PRO:HD3	1:A:579:PHE:HA	1.96	0.46
1:A:715:VAL:CG1	1:A:720:PHE:HB2	2.45	0.46
1:D:30:MLY:HB3	1:D:31:PRO:HD2	1.97	0.46
1:D:218:LEU:CD2	1:D:222:ILE:CG1	2.86	0.46
1:D:322:VAL:HB	1:D:325:ILE:HG13	1.98	0.46
1:D:374:GLN:NE2	1:D:403:TYR:CE1	2.84	0.46
1:D:529:PRO:HB2	4:9:354:GLN:HB3	1.98	0.46
1:D:695:LEU:HB3	1:D:701:LEU:HD22	1.97	0.46
1:G:543:PRO:HD2	4:V:146:GLY:O	2.15	0.46
1:J:797:PHE:CE1	3:L:146:ILE:CA	2.99	0.46
1:M:411:GLU:H	4:Z:333:PRO:HB2	1.81	0.46
1:M:768:MLY:O	1:M:770:GLY:CA	2.63	0.46
1:S:188:ASN:ND2	1:S:674:CYS:SG	2.88	0.46
1:S:265:ILE:CG2	1:S:266:GLU:N	2.78	0.46
1:S:400:ALA:HB1	1:S:606:THR:CG2	2.45	0.46
1:S:543:PRO:HD2	4:2:146:GLY:O	2.15	0.46
1:S:810:ARG:HG2	1:S:810:ARG:NH1	2.29	0.46
4:V:253:GLU:HA	4:V:256:ARG:CG	2.42	0.46
1:A:82:PRO:HG2	1:A:85:TYR:CE2	2.50	0.46
1:A:496:PHE:CE2	1:A:514:ASP:HA	2.50	0.46
1:A:810:ARG:HG2	1:A:810:ARG:NH1	2.29	0.46
2:B:121:LEU:O	2:B:128:PHE:CG	2.61	0.46
1:D:534:SER:HB2	4:9:354:GLN:HE22	1.56	0.46
1:D:540:CYS:N	4:9:349:LEU:HD11	2.31	0.46
1:D:715:VAL:HG11	1:D:720:PHE:CD1	2.49	0.46
1:D:783:LEU:N	1:D:783:LEU:CD1	2.78	0.46
1:D:831:TRP:CE3	2:E:34:ILE:CD1	2.97	0.46
1:G:90:ASP:OD2	1:G:764:MLY:HH12	2.00	0.46
1:G:265:ILE:CG2	1:G:266:GLU:N	2.79	0.46
1:G:322:VAL:HB	1:G:325:ILE:HG13	1.98	0.46
1:G:406:VAL:CG1	1:G:407:GLY:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:643:GLY:CA	4:V:24:ASP:OD1	2.62	0.46
3:I:52:ASN:CB	3:I:53:PRO:HD3	2.28	0.46
1:J:82:PRO:HG2	1:J:85:TYR:CE2	2.50	0.46
1:J:649:VAL:HA	1:J:649:VAL:HG23	1.83	0.46
1:M:84:MLY:CH2	1:M:715:VAL:HG13	2.46	0.46
1:M:136:ASN:O	1:M:139:VAL:N	2.47	0.46
1:M:400:ALA:HB1	1:M:606:THR:CG2	2.45	0.46
1:M:496:PHE:CE2	1:M:514:ASP:HA	2.50	0.46
1:M:839:MLY:HH11	2:N:158:THR:HG21	1.97	0.46
1:S:508:ILE:CD1	1:S:759:ALA:CB	2.71	0.46
1:S:559:LEU:HD23	1:S:560:GLY:N	2.30	0.46
1:S:629:GLU:CA	1:S:643:GLY:C	2.73	0.46
2:T:88:LEU:HB3	2:T:91:ALA:HB2	1.98	0.46
4:7:162:ASN:OD1	4:7:277:THR:HG22	2.15	0.46
1:A:144:ARG:HA	1:A:144:ARG:HD2	1.79	0.46
1:A:311:ASP:CB	1:A:312:TYR:CE1	2.98	0.46
1:D:122:PHE:CE2	1:D:700:VAL:HA	2.50	0.46
1:D:519:LEU:N	1:D:519:LEU:CD1	2.77	0.46
1:D:834:LEU:CD1	2:E:54:MET:HB2	2.44	0.46
1:G:149:GLN:CB	1:G:763:THR:HG23	2.43	0.46
1:G:436:MLY:HE3	1:G:626:TYR:HE1	1.77	0.46
1:G:476:GLU:H	1:G:476:GLU:CD	2.22	0.46
1:G:714:ARG:HD3	1:G:766:PHE:CE2	2.50	0.46
2:H:137:TRP:CA	2:H:145:ALA:HB2	2.37	0.46
1:J:30:MLY:HB3	1:J:31:PRO:HD2	1.97	0.46
1:J:149:GLN:OE1	1:J:763:THR:HG21	2.15	0.46
1:J:374:GLN:NE2	1:J:403:TYR:CE1	2.84	0.46
1:J:519:LEU:N	1:J:519:LEU:CD1	2.77	0.46
1:J:529:PRO:HB2	4:W:354:GLN:HB3	1.98	0.46
1:J:757:GLN:CA	1:J:776:GLU:HB3	2.44	0.46
1:J:798:LEU:HD22	3:L:118:MET:CG	2.45	0.46
1:M:41:VAL:CG1	1:M:42:HIS:N	2.75	0.46
1:M:374:GLN:NE2	1:M:403:TYR:CE1	2.84	0.46
1:M:418:THR:CG2	1:M:419:VAL:N	2.79	0.46
1:M:550:PHE:C	4:2:46:GLY:CA	2.88	0.46
1:M:739:ASP:OD1	1:M:739:ASP:C	2.58	0.46
1:M:797:PHE:CE2	3:O:146:ILE:CD1	2.98	0.46
1:M:805:ALA:C	1:M:809:ARG:HB2	2.39	0.46
1:S:406:VAL:CG1	1:S:407:GLY:H	2.28	0.46
1:S:418:THR:CG2	1:S:419:VAL:N	2.79	0.46
1:S:770:GLY:O	1:S:771:LEU:CA	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:6:THR:HG22	4:3:101:HIS:HA	1.97	0.46
4:X:217:CYS:C	4:X:218:TYR:HD1	2.23	0.46
4:Y:6:THR:HG22	4:Y:101:HIS:HA	1.98	0.46
1:A:42:HIS:O	1:A:45:GLN:O	2.33	0.46
1:A:322:VAL:HB	1:A:325:ILE:HG13	1.98	0.46
1:A:400:ALA:HB1	1:A:606:THR:CG2	2.45	0.46
1:A:544:LYS:HD2	4:8:147:ARG:CB	2.36	0.46
1:D:553:MLY:CE	4:W:45:VAL:CA	2.49	0.46
1:D:665:ARG:C	1:D:667:THR:N	2.74	0.46
1:D:820:VAL:HG11	2:E:136:MET:SD	2.55	0.46
1:G:42:HIS:O	1:G:45:GLN:O	2.33	0.46
1:G:402:CYS:C	1:G:404:PRO:HD3	2.40	0.46
1:G:496:PHE:CE2	1:G:514:ASP:HA	2.50	0.46
1:G:524:GLU:HB3	1:G:528:MLY:HG2	1.97	0.46
1:G:568:PRO:HD3	1:G:579:PHE:HA	1.97	0.46
3:I:50:LEU:O	3:I:53:PRO:CD	2.63	0.46
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.46
1:J:541:MET:CG	4:W:345:ILE:C	2.87	0.46
3:L:53:PRO:O	3:L:55:LYS:HG3	2.15	0.46
1:M:188:ASN:ND2	1:M:674:CYS:SG	2.88	0.46
1:M:361:TYR:O	1:M:364:LEU:HB2	2.16	0.46
1:M:406:VAL:CG1	1:M:407:GLY:H	2.28	0.46
1:M:715:VAL:CG1	1:M:720:PHE:HB2	2.45	0.46
1:M:821:ARG:CZ	2:N:127:ARG:CD	2.94	0.46
1:S:524:GLU:HB3	1:S:528:MLY:HG2	1.97	0.46
3:U:52:ASN:CB	3:U:53:PRO:HD3	2.28	0.46
4:9:288:ASP:CG	4:W:203:THR:C	2.83	0.46
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.94	0.46
1:A:834:LEU:HD23	2:B:54:MET:HE3	1.85	0.46
1:D:82:PRO:HG2	1:D:85:TYR:CE2	2.50	0.46
1:D:508:ILE:HA	1:D:761:GLY:HA3	1.97	0.46
1:D:723:ARG:NH2	1:D:779:ARG:CZ	2.79	0.46
2:E:114:LYS:CG	2:E:146:GLY:HA2	2.46	0.46
1:G:84:MLY:CG	1:G:723:ARG:HD2	2.45	0.46
1:G:139:VAL:HG12	1:G:143:TYR:HD2	1.81	0.46
2:H:88:LEU:HB3	2:H:91:ALA:HB2	1.98	0.46
3:I:52:ASN:CB	3:I:53:PRO:CD	2.92	0.46
1:J:310:TYR:CE2	1:J:320:ILE:CD1	2.94	0.46
1:J:564:ASN:HD22	1:J:582:VAL:HB	1.79	0.46
2:K:121:LEU:HA	2:K:128:PHE:CD2	2.47	0.46
1:M:139:VAL:HG12	1:M:143:TYR:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:564:ASN:HD22	1:M:582:VAL:HB	1.79	0.46
1:M:714:ARG:HD3	1:M:766:PHE:CE2	2.50	0.46
1:S:139:VAL:HG12	1:S:143:TYR:HD2	1.81	0.46
1:S:326:ASP:O	1:S:330:GLU:HG2	2.16	0.46
1:S:496:PHE:CE2	1:S:514:ASP:HA	2.50	0.46
1:S:805:ALA:CA	1:S:807:VAL:N	2.78	0.46
4:4:47:MET:HE2	4:4:47:MET:HB2	1.79	0.46
4:9:6:THR:HG22	4:9:101:HIS:HA	1.98	0.46
1:A:139:VAL:HG12	1:A:143:TYR:HD2	1.81	0.46
1:A:402:CYS:C	1:A:404:PRO:HD3	2.40	0.46
1:A:725:ARG:NE	1:A:733:PRO:CB	1.95	0.46
1:A:797:PHE:CD2	3:C:146:ILE:HD12	2.49	0.46
1:D:42:HIS:O	1:D:45:GLN:O	2.33	0.46
1:D:550:PHE:C	4:W:46:GLY:CA	2.88	0.46
1:D:636:LYS:O	4:9:144:ALA:HB1	2.15	0.46
1:D:732:ILE:CG2	1:D:747:LEU:CD1	0.65	0.46
1:D:836:PHE:CD2	2:E:161:GLU:HG2	2.51	0.46
2:E:144:VAL:HG12	2:E:153:ILE:HD11	1.75	0.46
1:G:725:ARG:CG	1:G:733:PRO:HA	2.43	0.46
1:G:725:ARG:HH21	1:G:733:PRO:HB2	1.81	0.46
1:G:784:ALA:O	1:G:788:THR:CA	2.61	0.46
1:G:834:LEU:HD21	2:H:34:ILE:HG12	1.98	0.46
1:J:202:SER:HA	1:J:207:LYS:NZ	2.22	0.46
1:J:265:ILE:CG2	1:J:266:GLU:N	2.79	0.46
1:J:361:TYR:O	1:J:364:LEU:HB2	2.16	0.46
1:J:714:ARG:HD3	1:J:766:PHE:CE2	2.50	0.46
1:J:783:LEU:N	1:J:783:LEU:CD1	2.78	0.46
1:J:792:ALA:CB	3:L:42:THR:N	2.78	0.46
2:K:88:LEU:HB3	2:K:91:ALA:HB2	1.98	0.46
1:M:322:VAL:HB	1:M:325:ILE:HG13	1.98	0.46
1:M:449:LEU:HA	1:M:449:LEU:HD12	1.60	0.46
1:M:524:GLU:HB3	1:M:528:MLY:HG2	1.97	0.46
1:M:543:PRO:CD	4:Z:143:TYR:O	2.64	0.46
1:M:800:ARG:CB	3:O:149:VAL:HG22	2.31	0.46
1:M:821:ARG:HH22	2:N:127:ARG:HE	1.61	0.46
2:N:88:LEU:HB3	2:N:91:ALA:HB2	1.98	0.46
2:N:114:LYS:CG	2:N:146:GLY:HA2	2.46	0.46
1:S:311:ASP:CB	1:S:312:TYR:CE1	2.98	0.46
1:S:361:TYR:O	1:S:364:LEU:HB2	2.16	0.46
1:S:543:PRO:CD	4:2:143:TYR:O	2.64	0.46
1:S:783:LEU:N	1:S:783:LEU:CD1	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:203:THR:C	4:Z:288:ASP:CG	2.83	0.46
4:2:204:ALA:H	4:Z:287:ILE:CB	2.13	0.46
4:3:322:PRO:CA	4:5:244:ASP:HB2	2.45	0.46
4:V:217:CYS:C	4:V:218:TYR:HD1	2.22	0.46
4:W:6:THR:HG22	4:W:101:HIS:HA	1.98	0.46
4:W:162:ASN:OD1	4:W:277:THR:HG22	2.15	0.46
1:A:206:LYS:CE	1:A:217:THR:HG23	2.30	0.46
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.78	0.46
1:G:188:ASN:ND2	1:G:674:CYS:SG	2.88	0.46
1:G:311:ASP:CB	1:G:312:TYR:CE1	2.98	0.46
1:G:795:ARG:CB	3:I:35:ARG:HH22	2.18	0.46
1:J:732:ILE:CG2	1:J:747:LEU:CD1	0.65	0.46
1:M:326:ASP:O	1:M:330:GLU:HG2	2.16	0.46
1:M:529:PRO:HB2	4:Z:354:GLN:HB3	1.98	0.46
1:S:166:MET:HE3	1:S:459:ILE:HG13	1.97	0.46
1:S:374:GLN:NE2	1:S:403:TYR:CE1	2.84	0.46
1:S:664:LEU:HD12	1:S:664:LEU:HA	1.52	0.46
1:S:715:VAL:CG1	1:S:720:PHE:HB2	2.45	0.46
4:6:190:MET:O	4:6:194:THR:HG23	2.16	0.46
4:W:190:MET:O	4:W:194:THR:HG23	2.16	0.46
1:A:732:ILE:CG2	1:A:747:LEU:CD1	0.65	0.46
1:D:206:LYS:HD3	1:D:217:THR:OG1	2.16	0.46
1:D:629:GLU:HB3	1:D:643:GLY:C	2.41	0.46
1:D:640:LYS:HB3	1:D:645:SER:CB	2.42	0.46
1:G:82:PRO:HG2	1:G:85:TYR:CE2	2.51	0.46
1:G:544:LYS:HD2	4:V:147:ARG:CB	2.36	0.46
1:G:754:ASP:N	1:G:779:ARG:CD	2.65	0.46
1:G:838:ILE:CG1	2:H:54:MET:HE1	2.45	0.46
1:J:544:LYS:HD2	4:W:147:ARG:CB	2.36	0.46
1:M:311:ASP:CB	1:M:312:TYR:CE1	2.98	0.46
1:M:354:LEU:HD12	1:M:354:LEU:HA	1.55	0.46
1:M:642:LYS:CB	4:Z:24:ASP:O	2.60	0.46
1:M:725:ARG:CG	1:M:733:PRO:HA	2.43	0.46
2:N:117:LEU:CB	2:N:147:ASN:ND2	2.35	0.46
1:S:106:LEU:HD12	1:S:117:THR:HG21	1.96	0.46
1:S:218:LEU:HD22	1:S:222:ILE:HG13	1.95	0.46
1:S:322:VAL:HB	1:S:325:ILE:HG13	1.98	0.46
1:S:529:PRO:HB2	4:2:354:GLN:HB3	1.98	0.46
1:S:544:LYS:HD2	4:2:147:ARG:CB	2.36	0.46
1:S:714:ARG:HD3	1:S:766:PHE:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:836:PHE:CD1	2:T:159:HIS:HA	2.37	0.46
2:T:121:LEU:O	2:T:128:PHE:CG	2.61	0.46
4:1:6:THR:HG22	4:1:101:HIS:HA	1.98	0.46
4:1:190:MET:O	4:1:194:THR:HG23	2.16	0.46
4:7:6:THR:HG22	4:7:101:HIS:HA	1.98	0.46
4:9:366:GLY:O	4:9:369:ILE:HG22	2.16	0.46
4:Z:253:GLU:HA	4:Z:256:ARG:CG	2.42	0.46
1:A:136:ASN:HA	1:A:137:PRO:HD3	1.49	0.46
1:A:418:THR:CG2	1:A:419:VAL:N	2.79	0.46
1:A:485:GLU:OE1	1:A:583:HIS:ND1	2.49	0.46
1:A:519:LEU:N	1:A:519:LEU:CD1	2.77	0.46
1:A:665:ARG:C	1:A:667:THR:N	2.74	0.46
1:A:768:MLY:C	1:A:771:LEU:CB	2.94	0.46
1:A:831:TRP:HH2	2:B:50:THR:CB	2.15	0.46
3:C:50:LEU:O	3:C:53:PRO:CD	2.63	0.46
1:D:335:ASP:OD1	1:D:348:MLY:NZ	2.49	0.46
1:D:747:LEU:C	1:D:749:GLY:N	2.71	0.46
1:G:87:MLY:HH12	1:G:87:MLY:HD3	1.62	0.46
1:G:95:THR:N	1:G:713:SER:HB3	2.30	0.46
1:G:326:ASP:O	1:G:330:GLU:HG2	2.16	0.46
1:G:418:THR:CG2	1:G:419:VAL:N	2.79	0.46
1:G:540:CYS:N	4:V:349:LEU:HD11	2.31	0.46
1:G:642:LYS:CB	4:V:24:ASP:O	2.60	0.46
1:G:661:MET:HE3	1:G:661:MET:HB3	1.74	0.46
2:K:112:ILE:O	2:K:148:VAL:HA	2.16	0.46
1:M:543:PRO:HD2	4:Z:146:GLY:O	2.15	0.46
1:M:667:THR:O	1:M:669:PRO:HD3	2.17	0.46
1:S:409:GLY:N	1:S:636:LYS:CD	2.70	0.46
1:S:540:CYS:N	4:2:349:LEU:HD11	2.30	0.46
1:S:695:LEU:HB3	1:S:701:LEU:HD22	1.97	0.46
1:S:795:ARG:HG2	3:U:118:MET:HE1	0.46	0.46
1:S:803:TYR:CE2	3:U:17:PHE:CE2	3.03	0.46
1:S:835:PHE:O	1:S:839:MLY:N	2.49	0.46
2:T:137:TRP:CZ3	2:T:145:ALA:N	2.81	0.46
4:1:366:GLY:O	4:1:369:ILE:HG22	2.16	0.46
4:3:190:MET:O	4:3:194:THR:HG23	2.16	0.46
4:3:366:GLY:O	4:3:369:ILE:HG22	2.16	0.46
4:5:6:THR:HG22	4:5:101:HIS:HA	1.97	0.46
4:6:366:GLY:O	4:6:369:ILE:HG22	2.16	0.46
4:Y:366:GLY:O	4:Y:369:ILE:HG22	2.16	0.46
4:Z:223:PHE:CD2	4:Z:259:GLU:HG3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:GLU:OE2	1:A:717:TYR:OH	2.33	0.45
1:D:715:VAL:CG1	1:D:720:PHE:HB2	2.46	0.45
2:E:163:ALA:HA	2:K:21:GLU:CB	2.26	0.45
1:G:144:ARG:HA	1:G:144:ARG:HD2	1.78	0.45
1:G:335:ASP:OD1	1:G:348:MLY:NZ	2.49	0.45
1:G:476:GLU:OE2	1:G:598:MLY:HH13	2.16	0.45
1:G:732:ILE:CG2	1:G:747:LEU:HD12	0.35	0.45
1:G:820:VAL:HG11	2:H:136:MET:HE3	1.96	0.45
1:G:835:PHE:O	1:G:839:MLY:N	2.49	0.45
1:J:87:MLY:HD3	1:J:87:MLY:HH12	1.61	0.45
1:J:543:PRO:CD	4:W:143:TYR:O	2.64	0.45
1:J:695:LEU:HB3	1:J:701:LEU:HD22	1.97	0.45
1:J:739:ASP:OD1	1:J:739:ASP:C	2.58	0.45
1:M:94:MET:O	1:M:713:SER:CA	2.64	0.45
1:M:265:ILE:CG2	1:M:266:GLU:N	2.79	0.45
1:M:476:GLU:OE2	1:M:598:MLY:HH13	2.16	0.45
1:M:786:ILE:CB	1:M:787:ILE:N	2.79	0.45
1:M:839:MLY:HH11	2:N:158:THR:HG22	1.98	0.45
2:N:112:ILE:O	2:N:148:VAL:HA	2.17	0.45
1:S:42:HIS:O	1:S:45:GLN:O	2.33	0.45
1:S:732:ILE:CG2	1:S:747:LEU:CD1	0.65	0.45
1:S:831:TRP:CZ3	2:T:34:ILE:HD13	2.41	0.45
4:2:223:PHE:CD2	4:2:259:GLU:HG3	2.52	0.45
4:4:32:PRO:HB2	4:4:34:ILE:HD11	1.98	0.45
4:5:190:MET:O	4:5:194:THR:HG23	2.16	0.45
4:6:223:PHE:CD2	4:6:259:GLU:HG3	2.52	0.45
4:8:223:PHE:CD2	4:8:259:GLU:HG3	2.51	0.45
4:V:223:PHE:CD2	4:V:259:GLU:HG3	2.51	0.45
1:A:30:MLY:HB3	1:A:31:PRO:HD2	1.97	0.45
1:A:206:LYS:HD3	1:A:217:THR:OG1	2.16	0.45
1:A:265:ILE:CG2	1:A:266:GLU:N	2.79	0.45
1:A:346:ASP:O	1:A:350:ALA:N	2.46	0.45
1:A:464:ILE:CG2	1:A:465:ALA:N	2.79	0.45
1:A:714:ARG:HD3	1:A:766:PHE:CE2	2.51	0.45
1:A:794:CYS:O	1:A:797:PHE:HB3	2.17	0.45
1:A:800:ARG:CB	3:C:149:VAL:CG2	2.54	0.45
1:D:221:GLN:HG2	1:D:221:GLN:H	1.47	0.45
1:D:326:ASP:O	1:D:330:GLU:HG2	2.16	0.45
1:D:724:TYR:HD1	1:D:727:LEU:CD1	2.27	0.45
1:D:836:PHE:CB	2:E:161:GLU:OE1	2.65	0.45
1:G:374:GLN:NE2	1:G:403:TYR:CE1	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:629:GLU:HB3	1:G:643:GLY:C	2.41	0.45
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	0.45
1:G:788:THR:C	3:I:42:THR:HG21	2.41	0.45
1:J:206:LYS:HD3	1:J:217:THR:OG1	2.16	0.45
1:J:326:ASP:O	1:J:330:GLU:HG2	2.16	0.45
1:J:629:GLU:HB3	1:J:643:GLY:C	2.42	0.45
1:J:725:ARG:HH21	1:J:733:PRO:HB2	1.82	0.45
3:L:49:ILE:CA	3:L:52:ASN:ND2	2.54	0.45
3:L:50:LEU:O	3:L:53:PRO:CD	2.63	0.45
1:M:42:HIS:O	1:M:45:GLN:O	2.33	0.45
1:M:179:GLY:O	1:M:185:LYS:HE2	2.17	0.45
1:S:82:PRO:HG2	1:S:85:TYR:CE2	2.50	0.45
1:S:578:HIS:HB3	1:S:592:ILE:CD1	2.38	0.45
2:T:112:ILE:O	2:T:148:VAL:HA	2.16	0.45
4:4:190:MET:O	4:4:194:THR:HG23	2.16	0.45
4:5:223:PHE:CD2	4:5:259:GLU:HG3	2.51	0.45
4:5:366:GLY:O	4:5:369:ILE:HG22	2.16	0.45
4:6:6:THR:HG22	4:6:101:HIS:HA	1.98	0.45
4:X:324:THR:O	4:Z:245:GLY:CA	2.64	0.45
1:A:326:ASP:O	1:A:330:GLU:HG2	2.16	0.45
1:A:629:GLU:CA	1:A:643:GLY:C	2.73	0.45
1:A:640:LYS:HB3	1:A:645:SER:CB	2.42	0.45
1:A:642:LYS:NZ	4:8:340:TRP:O	2.50	0.45
1:A:809:ARG:CZ	2:B:124:GLY:CA	2.94	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:346:ASP:O	1:D:350:ALA:N	2.46	0.45
1:D:507:GLY:HA2	1:D:762:HIS:NE2	2.30	0.45
1:D:794:CYS:O	1:D:797:PHE:HB3	2.17	0.45
1:G:400:ALA:HB1	1:G:606:THR:CG2	2.45	0.45
1:G:723:ARG:CG	1:G:723:ARG:NH1	2.80	0.45
1:J:136:ASN:O	1:J:139:VAL:N	2.47	0.45
1:J:136:ASN:HA	1:J:137:PRO:HD3	1.50	0.45
1:M:218:LEU:HD22	1:M:222:ILE:HG13	1.95	0.45
1:M:408:VAL:HG22	1:M:636:LYS:HG2	1.52	0.45
1:M:559:LEU:HD23	1:M:560:GLY:N	2.30	0.45
1:M:723:ARG:CG	1:M:723:ARG:NH1	2.79	0.45
1:S:103:LEU:HD22	1:S:692:LEU:HG	1.98	0.45
1:S:449:LEU:HA	1:S:449:LEU:HD12	1.60	0.45
1:S:792:ALA:CB	3:U:42:THR:N	2.75	0.45
4:4:366:GLY:O	4:4:369:ILE:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.45
1:A:529:PRO:HB2	4:8:354:GLN:HB3	1.98	0.45
1:A:639:GLY:CA	4:8:344:SER:O	2.40	0.45
1:A:667:THR:O	1:A:669:PRO:HD3	2.17	0.45
1:A:783:LEU:N	1:A:783:LEU:CD1	2.79	0.45
1:A:831:TRP:CD1	2:B:67:MET:SD	3.09	0.45
1:D:99:GLU:N	1:D:100:PRO:CD	2.79	0.45
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.45
1:D:310:TYR:CE2	1:D:320:ILE:CD1	2.95	0.45
1:D:361:TYR:O	1:D:364:LEU:HB2	2.16	0.45
1:D:418:THR:CG2	1:D:419:VAL:N	2.79	0.45
1:D:795:ARG:CG	3:F:118:MET:CE	2.55	0.45
1:D:818:TYR:HB3	2:E:90:GLY:HA3	0.45	0.45
1:G:30:MLY:HB3	1:G:31:PRO:HD2	1.97	0.45
1:G:84:MLY:NZ	1:G:724:TYR:HE2	2.14	0.45
1:G:206:LYS:HD2	1:G:217:THR:CG2	2.17	0.45
1:G:384:ASP:OD1	1:G:394:SER:OG	2.28	0.45
1:G:464:ILE:CG2	1:G:465:ALA:N	2.80	0.45
1:G:529:PRO:HB2	4:V:354:GLN:HB3	1.98	0.45
1:G:795:ARG:CB	3:I:35:ARG:NH2	2.78	0.45
1:J:810:ARG:HG2	1:J:810:ARG:NH1	2.29	0.45
1:M:186:THR:O	1:M:190:MLY:HG2	2.17	0.45
1:M:296:MLY:O	1:M:299:LEU:HB2	2.17	0.45
1:M:701:LEU:HD12	1:M:701:LEU:HA	1.55	0.45
1:M:783:LEU:O	1:M:786:ILE:CB	2.63	0.45
3:O:62:ALA:O	3:O:63:ILE:HG13	2.14	0.45
1:S:179:GLY:O	1:S:185:LYS:HE2	2.17	0.45
1:S:210:GLN:C	1:S:211:SER:HG	2.17	0.45
1:S:335:ASP:OD1	1:S:348:MLY:NZ	2.49	0.45
1:S:798:LEU:HD12	1:S:798:LEU:HA	1.36	0.45
2:T:160:GLY:O	2:T:161:GLU:HG2	2.14	0.45
4:1:223:PHE:CD2	4:1:259:GLU:HG3	2.52	0.45
4:7:47:MET:HE2	4:7:47:MET:HB2	1.79	0.45
4:W:366:GLY:O	4:W:369:ILE:HG22	2.16	0.45
1:A:176:LEU:N	1:A:176:LEU:CD1	2.74	0.45
1:A:322:VAL:CG1	1:A:325:ILE:HD11	2.47	0.45
1:D:692:LEU:HD23	1:D:692:LEU:HA	1.84	0.45
1:D:726:VAL:CG1	1:D:785:GLU:HG3	2.34	0.45
1:D:831:TRP:CZ3	2:E:34:ILE:CG1	2.99	0.45
1:D:835:PHE:O	1:D:839:MLY:N	2.49	0.45
1:G:206:LYS:HD3	1:G:217:THR:OG1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:332:MET:O	1:G:336:SER:OG	2.27	0.45
1:G:361:TYR:O	1:G:364:LEU:HB2	2.16	0.45
1:G:783:LEU:N	1:G:783:LEU:CD1	2.78	0.45
1:G:831:TRP:NE1	2:H:67:MET:CB	2.60	0.45
1:J:99:GLU:N	1:J:100:PRO:CD	2.80	0.45
1:J:612:GLN:NE2	1:J:627:GLY:H	2.15	0.45
1:M:642:LYS:NZ	4:Z:340:TRP:O	2.50	0.45
1:M:836:PHE:CD1	2:N:159:HIS:CA	2.83	0.45
3:O:50:LEU:O	3:O:53:PRO:CD	2.63	0.45
1:S:488:GLN:O	1:S:491:PHE:HB3	2.17	0.45
1:S:612:GLN:NE2	1:S:627:GLY:H	2.15	0.45
4:3:47:MET:HE2	4:3:47:MET:HB2	1.79	0.45
4:8:366:GLY:O	4:8:369:ILE:HG22	2.16	0.45
1:A:99:GLU:N	1:A:100:PRO:CD	2.80	0.45
1:A:163:TYR:O	1:A:166:MET:HB3	2.17	0.45
1:A:194:GLN:HE21	1:A:194:GLN:HB3	1.43	0.45
1:A:501:GLU:CB	1:A:762:HIS:ND1	2.80	0.45
1:A:753:VAL:HA	1:A:778:MET:SD	2.57	0.45
1:A:835:PHE:O	1:A:839:MLY:N	2.49	0.45
1:D:179:GLY:O	1:D:185:LYS:HE2	2.17	0.45
1:D:568:PRO:CG	1:D:578:HIS:H	2.30	0.45
1:D:724:TYR:CB	1:D:782:MLY:HD2	2.12	0.45
1:D:747:LEU:CG	1:D:782:MLY:HH21	2.34	0.45
1:D:836:PHE:HE2	2:E:160:GLY:HA3	1.81	0.45
2:E:137:TRP:CZ3	2:E:145:ALA:N	2.81	0.45
1:G:14:ALA:HB3	1:G:15:PRO:CD	2.46	0.45
1:G:173:GLN:HG3	1:G:670:HIS:HD2	1.82	0.45
1:G:186:THR:O	1:G:190:MLY:HG2	2.17	0.45
1:J:92:ALA:O	1:J:714:ARG:CG	2.64	0.45
1:J:173:GLN:HG3	1:J:670:HIS:HD2	1.82	0.45
1:J:186:THR:O	1:J:190:MLY:HG2	2.17	0.45
1:J:330:GLU:O	1:J:333:ALA:HB3	2.16	0.45
1:J:836:PHE:CD1	2:K:159:HIS:HA	2.36	0.45
1:M:30:MLY:HB3	1:M:31:PRO:HD2	1.97	0.45
1:M:82:PRO:HG2	1:M:85:TYR:CE2	2.50	0.45
1:M:103:LEU:HD22	1:M:692:LEU:HG	1.98	0.45
1:M:335:ASP:OD1	1:M:348:MLY:NZ	2.49	0.45
1:M:488:GLN:O	1:M:491:PHE:HB3	2.17	0.45
1:M:665:ARG:C	1:M:667:THR:N	2.74	0.45
1:M:793:ARG:O	1:M:797:PHE:N	2.39	0.45
1:M:835:PHE:O	1:M:839:MLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:88:ILE:HG22	1:S:90:ASP:C	2.42	0.45
1:S:296:MLY:O	1:S:299:LEU:HB2	2.17	0.45
1:S:330:GLU:O	1:S:333:ALA:HB3	2.16	0.45
1:S:546:THR:HG21	4:4:47:MET:HA	1.96	0.45
1:S:629:GLU:CB	1:S:645:SER:N	2.74	0.45
4:2:366:GLY:O	4:2:369:ILE:HG22	2.16	0.45
4:3:223:PHE:CD2	4:3:259:GLU:HG3	2.52	0.45
4:7:288:ASP:CG	4:9:203:THR:C	2.83	0.45
4:X:32:PRO:HB2	4:X:34:ILE:HD11	1.98	0.45
4:X:223:PHE:CD2	4:X:259:GLU:HG3	2.51	0.45
1:A:179:GLY:O	1:A:185:LYS:HE2	2.17	0.45
1:A:186:THR:O	1:A:190:MLY:HG2	2.17	0.45
1:A:476:GLU:OE2	1:A:598:MLY:HH13	2.17	0.45
1:A:791:GLN:OE1	3:C:116:GLU:N	2.47	0.45
2:B:137:TRP:CA	2:B:145:ALA:HB2	2.38	0.45
1:D:88:ILE:HG22	1:D:90:ASP:C	2.42	0.45
1:D:95:THR:HB	1:D:772:LEU:HD22	1.98	0.45
1:D:476:GLU:OE2	1:D:598:MLY:HH13	2.16	0.45
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
1:D:739:ASP:OD1	1:D:739:ASP:C	2.58	0.45
1:D:769:ALA:HA	1:D:771:LEU:C	2.25	0.45
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.45
1:G:599:ASN:OD1	1:G:649:VAL:C	2.60	0.45
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.45
1:G:759:ALA:O	1:G:766:PHE:N	2.32	0.45
1:G:792:ALA:CB	3:I:42:THR:N	2.80	0.45
1:J:84:MLY:CD	1:J:724:TYR:OH	2.53	0.45
1:J:179:GLY:O	1:J:185:LYS:HE2	2.17	0.45
1:J:335:ASP:OD1	1:J:348:MLY:NZ	2.49	0.45
1:J:792:ALA:HB3	3:L:42:THR:CG2	2.19	0.45
1:J:793:ARG:HH11	3:L:40:ASN:ND2	2.08	0.45
1:M:37:SER:O	1:M:38:VAL:HG23	2.17	0.45
1:M:554:LEU:HD12	1:M:554:LEU:HA	1.77	0.45
1:S:163:TYR:O	1:S:166:MET:HB3	2.17	0.45
1:S:554:LEU:HD12	1:S:554:LEU:HA	1.77	0.45
1:S:786:ILE:C	1:S:789:ALA:N	2.47	0.45
4:7:223:PHE:CD2	4:7:259:GLU:HG3	2.52	0.45
4:8:6:THR:HG22	4:8:101:HIS:HA	1.97	0.45
4:9:190:MET:O	4:9:194:THR:HG23	2.16	0.45
4:V:366:GLY:O	4:V:369:ILE:HG22	2.16	0.45
4:W:223:PHE:CD2	4:W:259:GLU:HG3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:6:THR:HG22	4:Z:101:HIS:HA	1.97	0.45
1:A:14:ALA:N	1:A:15:PRO:HD2	2.32	0.45
1:A:195:TYR:CE2	1:A:199:ILE:HD12	2.52	0.45
1:A:296:MLY:O	1:A:299:LEU:HB2	2.17	0.45
1:A:361:TYR:O	1:A:364:LEU:HB2	2.16	0.45
1:A:488:GLN:O	1:A:491:PHE:HB3	2.17	0.45
1:A:501:GLU:C	1:A:762:HIS:CE1	2.93	0.45
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	0.45
1:A:793:ARG:NH2	3:C:147:MET:CE	2.23	0.45
1:A:829:TRP:O	1:A:832:MET:N	2.50	0.45
2:B:112:ILE:O	2:B:148:VAL:HA	2.17	0.45
1:D:218:LEU:HD22	1:D:222:ILE:HG13	1.95	0.45
1:D:775:LEU:HD12	1:D:775:LEU:HA	1.70	0.45
1:G:55:MLY:HH23	1:G:60:VAL:HG22	1.99	0.45
1:J:206:LYS:CE	1:J:217:THR:HG23	2.29	0.45
1:J:226:ASN:N	1:J:227:PRO:HD2	2.32	0.45
1:J:476:GLU:OE2	1:J:598:MLY:HH13	2.17	0.45
1:M:163:TYR:O	1:M:166:MET:HB3	2.17	0.45
1:S:278:GLN:HE21	1:S:278:GLN:HB3	1.42	0.45
1:S:642:LYS:NZ	4:2:340:TRP:O	2.50	0.45
1:S:794:CYS:O	1:S:797:PHE:HB3	2.17	0.45
1:S:804:ARG:O	1:S:807:VAL:C	2.59	0.45
4:2:190:MET:O	4:2:194:THR:HG23	2.16	0.45
4:9:223:PHE:CD2	4:9:259:GLU:HG3	2.52	0.45
4:W:253:GLU:HA	4:W:256:ARG:CG	2.42	0.45
4:X:6:THR:HG22	4:X:101:HIS:HA	1.98	0.45
4:Y:190:MET:O	4:Y:194:THR:HG23	2.16	0.45
1:D:206:LYS:CE	1:D:217:THR:HG23	2.29	0.45
1:D:226:ASN:N	1:D:227:PRO:HD2	2.32	0.45
1:D:289:TYR:OH	1:D:315:VAL:O	2.27	0.45
1:D:544:LYS:HD2	4:9:147:ARG:CB	2.37	0.45
1:D:576:GLU:CG	1:D:577:ALA:N	2.44	0.45
1:D:712:PRO:CB	1:D:771:LEU:HB3	2.32	0.45
1:D:798:LEU:CD2	3:F:126:LEU:HD11	2.45	0.45
1:G:296:MLY:O	1:G:299:LEU:HB2	2.17	0.45
1:J:83:PRO:HB2	1:J:723:ARG:HH21	1.82	0.45
1:J:88:ILE:HG22	1:J:90:ASP:C	2.42	0.45
1:J:296:MLY:O	1:J:299:LEU:HB2	2.17	0.45
1:J:725:ARG:CG	1:J:733:PRO:CA	2.95	0.45
1:M:106:LEU:HD12	1:M:106:LEU:HA	1.80	0.45
1:M:540:CYS:N	4:Z:349:LEU:HD11	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:599:ASN:OD1	1:M:649:VAL:C	2.60	0.45
1:M:643:GLY:CA	4:Z:24:ASP:OD1	2.62	0.45
1:M:725:ARG:HH21	1:M:733:PRO:HB2	1.82	0.45
1:S:99:GLU:N	1:S:100:PRO:CD	2.80	0.45
1:S:173:GLN:HG3	1:S:670:HIS:HD2	1.82	0.45
1:S:546:THR:CG2	4:4:47:MET:C	2.90	0.45
1:S:549:SER:N	4:4:47:MET:O	2.50	0.45
1:S:629:GLU:HB3	1:S:643:GLY:C	2.41	0.45
1:S:734:GLU:OE1	3:U:94:PHE:O	2.34	0.45
1:S:746:LYS:NZ	3:U:96:LYS:CA	2.61	0.45
4:1:32:PRO:HB2	4:1:34:ILE:HD11	1.98	0.45
4:2:6:THR:HG22	4:2:101:HIS:HA	1.98	0.45
4:4:6:THR:HG22	4:4:101:HIS:HA	1.98	0.45
4:Y:32:PRO:HB2	4:Y:34:ILE:HD11	1.98	0.45
4:Z:366:GLY:O	4:Z:369:ILE:HG22	2.16	0.45
1:A:48:VAL:HA	1:A:104:TYR:OH	2.17	0.45
1:A:136:ASN:O	1:A:139:VAL:N	2.47	0.45
1:A:599:ASN:OD1	1:A:649:VAL:C	2.60	0.45
1:D:37:SER:O	1:D:38:VAL:HG23	2.17	0.45
1:D:278:GLN:HE21	1:D:278:GLN:HB3	1.42	0.45
1:D:725:ARG:NE	1:D:733:PRO:CB	1.95	0.45
1:D:791:GLN:NE2	3:F:114:LEU:O	2.42	0.45
2:E:123:THR:HB	3:F:19:ARG:HH12	1.82	0.45
3:F:69:LEU:HB3	3:F:70:PRO:HD3	1.99	0.45
1:G:99:GLU:N	1:G:100:PRO:CD	2.80	0.45
1:G:449:LEU:HA	1:G:449:LEU:HD12	1.60	0.45
1:G:665:ARG:C	1:G:667:THR:N	2.74	0.45
1:G:675:ILE:HG23	1:G:676:ILE:N	2.32	0.45
1:G:725:ARG:CG	1:G:733:PRO:CA	2.95	0.45
1:G:769:ALA:O	1:G:773:GLY:HA2	2.13	0.45
1:G:798:LEU:CD2	3:I:122:GLU:HB3	2.47	0.45
1:G:838:ILE:CG1	2:H:54:MET:CE	2.92	0.45
1:J:642:LYS:NZ	4:W:340:TRP:O	2.50	0.45
1:J:667:THR:O	1:J:669:PRO:HD3	2.17	0.45
1:J:794:CYS:O	1:J:797:PHE:HB3	2.17	0.45
2:K:149:ASP:CG	2:K:150:TYR:N	2.49	0.45
1:M:173:GLN:HG3	1:M:670:HIS:HD2	1.82	0.45
1:M:330:GLU:O	1:M:333:ALA:HB3	2.16	0.45
1:M:642:LYS:HB2	4:Z:24:ASP:O	1.88	0.45
1:S:14:ALA:N	1:S:15:PRO:HD2	2.32	0.45
1:S:599:ASN:OD1	1:S:649:VAL:C	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:724:TYR:HE1	1:S:780:ASP:CG	2.25	0.45
1:S:747:LEU:O	3:U:93:VAL:HG21	2.17	0.45
3:U:69:LEU:HB3	3:U:70:PRO:HD3	1.99	0.45
4:7:32:PRO:HB2	4:7:34:ILE:HD11	1.98	0.45
4:7:366:GLY:O	4:7:369:ILE:HG22	2.16	0.45
4:Z:190:MET:O	4:Z:194:THR:HG23	2.16	0.45
1:A:129:TYR:HD1	1:A:129:TYR:HA	1.65	0.44
1:A:505:MLY:CG	1:A:741:LYS:HZ2	2.17	0.44
1:A:540:CYS:N	4:8:349:LEU:HD11	2.31	0.44
1:A:639:GLY:H	4:8:344:SER:HB3	1.82	0.44
1:A:797:PHE:CE1	3:C:149:VAL:CG1	3.00	0.44
2:B:144:VAL:C	2:B:153:ILE:HD11	2.43	0.44
1:D:296:MLY:O	1:D:299:LEU:HB2	2.17	0.44
1:D:330:GLU:O	1:D:333:ALA:HB3	2.17	0.44
1:D:675:ILE:HG23	1:D:676:ILE:N	2.32	0.44
2:E:112:ILE:O	2:E:148:VAL:HA	2.17	0.44
1:G:14:ALA:N	1:G:15:PRO:HD2	2.32	0.44
1:G:88:ILE:HG22	1:G:90:ASP:C	2.42	0.44
1:G:411:GLU:H	4:V:333:PRO:CB	2.29	0.44
1:G:629:GLU:CA	1:G:643:GLY:C	2.73	0.44
1:J:64:THR:HB	1:J:68:GLU:N	2.33	0.44
1:J:163:TYR:O	1:J:166:MET:HB3	2.17	0.44
1:J:599:ASN:OD1	1:J:649:VAL:C	2.60	0.44
1:J:640:LYS:HB3	1:J:645:SER:CB	2.42	0.44
1:J:725:ARG:HA	1:J:732:ILE:HG22	1.99	0.44
1:M:155:ILE:HG22	1:M:156:PHE:N	2.33	0.44
1:M:195:TYR:CE2	1:M:199:ILE:HD12	2.52	0.44
1:M:224:SER:O	1:M:227:PRO:HD2	2.17	0.44
1:M:541:MET:CE	4:Z:346:LEU:HD12	2.47	0.44
1:M:829:TRP:O	1:M:832:MET:N	2.50	0.44
1:S:322:VAL:CG1	1:S:325:ILE:HD11	2.47	0.44
1:S:485:GLU:OE1	1:S:583:HIS:ND1	2.49	0.44
1:S:597:GLU:O	1:S:600:MLY:N	2.50	0.44
1:S:791:GLN:HB3	3:U:116:GLU:HB2	1.98	0.44
2:T:129:THR:HG23	2:T:132:GLU:OE1	2.17	0.44
4:4:223:PHE:CD2	4:4:259:GLU:HG3	2.51	0.44
4:5:32:PRO:HB2	4:5:34:ILE:HD11	1.98	0.44
4:5:253:GLU:HA	4:5:256:ARG:CG	2.42	0.44
4:9:47:MET:HE2	4:9:47:MET:HB2	1.79	0.44
4:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	0.44
4:X:253:GLU:CD	4:X:253:GLU:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:299:MET:HE2	4:Y:299:MET:HB2	1.82	0.44
1:A:55:MLY:HH23	1:A:60:VAL:HG22	1.99	0.44
1:A:411:GLU:H	4:8:333:PRO:CB	2.30	0.44
1:A:436:MLY:HE3	1:A:626:TYR:HE1	1.77	0.44
1:A:701:LEU:HA	1:A:701:LEU:HD12	1.55	0.44
1:A:791:GLN:NE2	3:C:114:LEU:O	2.51	0.44
1:D:64:THR:HB	1:D:68:GLU:N	2.33	0.44
1:D:103:LEU:HD22	1:D:692:LEU:HG	1.98	0.44
1:D:136:ASN:C	1:D:138:MLY:N	2.75	0.44
1:D:139:VAL:HG12	1:D:143:TYR:HD2	1.81	0.44
1:D:689:GLU:HA	1:D:692:LEU:HB2	2.00	0.44
1:D:692:LEU:O	1:D:696:ARG:HG3	2.18	0.44
1:D:831:TRP:CZ3	2:E:34:ILE:CG2	3.00	0.44
1:G:163:TYR:O	1:G:166:MET:HB3	2.17	0.44
1:G:485:GLU:HA	1:G:584:TYR:HE2	1.83	0.44
1:J:97:LEU:HD22	1:J:712:PRO:HB2	1.98	0.44
1:J:195:TYR:CE2	1:J:199:ILE:HD12	2.52	0.44
1:J:493:HIS:O	1:J:496:PHE:HB3	2.18	0.44
1:J:597:GLU:O	1:J:600:MLY:N	2.50	0.44
1:J:768:MLY:CB	1:J:773:GLY:HA3	2.08	0.44
1:M:226:ASN:HB2	1:M:227:PRO:CD	2.47	0.44
1:M:544:LYS:HD2	4:Z:147:ARG:CB	2.36	0.44
1:M:578:HIS:HB3	1:M:592:ILE:CD1	2.38	0.44
1:M:818:TYR:CE1	2:N:127:ARG:NH1	2.76	0.44
2:N:129:THR:HG23	2:N:132:GLU:OE1	2.17	0.44
3:O:48:LYS:C	3:O:52:ASN:HD22	1.96	0.44
1:S:84:MLY:CH2	1:S:724:TYR:CE2	3.00	0.44
1:S:506:GLU:HG2	1:S:760:PHE:H	1.81	0.44
4:1:202:THR:CG2	4:Y:290:ARG:NH1	2.81	0.44
4:1:287:ILE:CG2	4:3:202:THR:CA	2.89	0.44
4:3:32:PRO:HB2	4:3:34:ILE:HD11	1.98	0.44
4:3:324:THR:N	4:5:244:ASP:HA	2.33	0.44
4:8:253:GLU:HA	4:8:256:ARG:CG	2.42	0.44
1:A:103:LEU:HD22	1:A:692:LEU:HG	1.98	0.44
1:A:173:GLN:HG3	1:A:670:HIS:HD2	1.82	0.44
1:A:485:GLU:OE2	1:A:584:TYR:N	2.50	0.44
1:A:629:GLU:HB3	1:A:643:GLY:C	2.41	0.44
1:A:723:ARG:CG	1:A:723:ARG:NH1	2.80	0.44
3:C:69:LEU:HB3	3:C:70:PRO:HD3	2.00	0.44
1:D:193:ILE:HD11	1:D:250:ILE:CD1	2.48	0.44
1:D:725:ARG:HA	1:D:732:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:725:ARG:HH21	1:D:733:PRO:HB2	1.81	0.44
2:E:129:THR:HG23	2:E:132:GLU:OE1	2.17	0.44
3:F:122:GLU:HA	3:F:125:GLU:OE1	2.18	0.44
1:G:195:TYR:CE2	1:G:199:ILE:HD12	2.52	0.44
1:G:218:LEU:HD22	1:G:222:ILE:HG13	1.95	0.44
1:G:519:LEU:N	1:G:519:LEU:CD1	2.77	0.44
1:G:597:GLU:O	1:G:600:MLY:N	2.50	0.44
1:G:642:LYS:NZ	4:V:340:TRP:O	2.50	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	0.44
1:J:136:ASN:C	1:J:138:MLY:N	2.75	0.44
1:J:139:VAL:HG12	1:J:143:TYR:HD2	1.81	0.44
1:J:194:GLN:HE21	1:J:194:GLN:HB3	1.44	0.44
1:J:732:ILE:HG21	1:J:747:LEU:CD1	0.63	0.44
1:J:762:HIS:CD2	1:J:762:HIS:N	2.78	0.44
1:M:14:ALA:N	1:M:15:PRO:HD2	2.32	0.44
1:M:493:HIS:O	1:M:496:PHE:HB3	2.18	0.44
1:M:639:GLY:H	4:Z:344:SER:HB3	1.82	0.44
1:S:30:MLY:HB3	1:S:31:PRO:HD2	1.97	0.44
1:S:136:ASN:C	1:S:138:MLY:N	2.76	0.44
1:S:224:SER:O	1:S:227:PRO:HD2	2.17	0.44
1:S:332:MET:H	1:S:332:MET:HG2	1.52	0.44
1:S:476:GLU:OE2	1:S:598:MLY:HH13	2.16	0.44
1:S:701:LEU:HD12	1:S:701:LEU:HA	1.55	0.44
1:S:724:TYR:HD1	1:S:727:LEU:CD1	2.27	0.44
1:S:725:ARG:CG	1:S:733:PRO:CA	2.95	0.44
4:7:190:MET:O	4:7:194:THR:HG23	2.16	0.44
4:8:190:MET:O	4:8:194:THR:HG23	2.16	0.44
4:W:32:PRO:HB2	4:W:34:ILE:HD11	1.98	0.44
4:Y:223:PHE:HB3	4:Y:259:GLU:OE2	2.18	0.44
1:A:88:ILE:HG22	1:A:90:ASP:C	2.42	0.44
1:A:206:LYS:HD2	1:A:217:THR:CG2	2.17	0.44
1:A:224:SER:O	1:A:227:PRO:HD2	2.17	0.44
1:A:408:VAL:CG1	4:8:332:PRO:HB3	2.40	0.44
1:A:410:ASN:HA	4:8:334:GLU:HB3	1.29	0.44
1:A:711:PHE:HB3	1:A:766:PHE:HB3	1.99	0.44
1:A:725:ARG:CG	1:A:733:PRO:CA	2.95	0.44
1:D:411:GLU:H	4:9:333:PRO:CB	2.30	0.44
1:D:439:LEU:N	1:D:439:LEU:CD1	2.81	0.44
1:D:488:GLN:O	1:D:491:PHE:HB3	2.17	0.44
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.44
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:701:LEU:HA	1:D:701:LEU:HD12	1.55	0.44
2:E:88:LEU:HB3	2:E:91:ALA:HB2	1.98	0.44
2:E:144:VAL:C	2:E:153:ILE:HD11	2.42	0.44
1:G:48:VAL:HA	1:G:104:TYR:OH	2.18	0.44
1:G:64:THR:HB	1:G:68:GLU:N	2.32	0.44
1:G:84:MLY:HB3	1:G:723:ARG:CZ	2.46	0.44
1:G:103:LEU:HD22	1:G:692:LEU:HG	1.98	0.44
2:H:112:ILE:O	2:H:148:VAL:HA	2.16	0.44
2:H:140:PHE:HA	2:H:141:PRO:HD2	1.57	0.44
1:J:411:GLU:H	4:W:333:PRO:CB	2.30	0.44
1:J:692:LEU:O	1:J:696:ARG:HG3	2.18	0.44
1:J:724:TYR:HD1	1:J:727:LEU:CD1	2.27	0.44
1:J:757:GLN:N	1:J:776:GLU:CG	2.80	0.44
1:M:411:GLU:H	4:Z:333:PRO:CB	2.30	0.44
1:M:485:GLU:HA	1:M:584:TYR:HE2	1.83	0.44
1:M:519:LEU:N	1:M:519:LEU:CD1	2.77	0.44
1:M:641:LYS:C	4:Z:22:ALA:O	2.60	0.44
1:M:675:ILE:HG23	1:M:676:ILE:N	2.33	0.44
1:M:794:CYS:O	1:M:797:PHE:HB3	2.17	0.44
1:S:37:SER:O	1:S:38:VAL:HG23	2.17	0.44
1:S:206:LYS:HD3	1:S:217:THR:OG1	2.16	0.44
1:S:641:LYS:C	4:2:22:ALA:O	2.60	0.44
1:S:667:THR:O	1:S:669:PRO:HD3	2.16	0.44
1:S:715:VAL:HG11	1:S:720:PHE:CD1	2.50	0.44
3:U:48:LYS:HA	3:U:48:LYS:HD3	1.17	0.44
4:1:223:PHE:HB3	4:1:259:GLU:OE2	2.18	0.44
4:3:223:PHE:HB3	4:3:259:GLU:OE2	2.18	0.44
4:4:324:THR:N	4:6:244:ASP:HA	2.33	0.44
4:5:253:GLU:CD	4:5:253:GLU:H	2.25	0.44
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.18	0.44
4:9:253:GLU:H	4:9:253:GLU:CD	2.26	0.44
4:Y:223:PHE:CD2	4:Y:259:GLU:HG3	2.52	0.44
4:Z:32:PRO:HB2	4:Z:34:ILE:HD11	1.98	0.44
1:A:93:MET:CE	1:A:716:LEU:N	2.81	0.44
1:A:155:ILE:HG22	1:A:156:PHE:N	2.33	0.44
1:A:354:LEU:HD12	1:A:354:LEU:HA	1.55	0.44
1:A:655:GLU:CD	4:8:1:ASP:HB2	2.43	0.44
1:A:725:ARG:HH21	1:A:733:PRO:HB2	1.81	0.44
1:D:195:TYR:CE2	1:D:199:ILE:HD12	2.52	0.44
1:D:554:LEU:HD12	1:D:554:LEU:HA	1.77	0.44
1:D:597:GLU:O	1:D:600:MLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ASN:OD1	1:D:649:VAL:C	2.60	0.44
1:D:711:PHE:HB3	1:D:766:PHE:HB3	2.00	0.44
1:D:724:TYR:HD1	1:D:782:MLY:CG	2.30	0.44
1:D:769:ALA:CA	1:D:774:LEU:HB2	2.43	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:J:103:LEU:HD22	1:J:692:LEU:HG	1.98	0.44
1:J:278:GLN:HE21	1:J:278:GLN:HB3	1.42	0.44
1:J:332:MET:O	1:J:336:SER:OG	2.27	0.44
1:J:439:LEU:N	1:J:439:LEU:CD1	2.81	0.44
1:J:464:ILE:CG2	1:J:465:ALA:N	2.80	0.44
1:J:516:GLY:O	1:J:518:ASP:N	2.51	0.44
1:J:689:GLU:HA	1:J:692:LEU:HB2	2.00	0.44
1:J:725:ARG:CZ	1:J:733:PRO:CB	2.83	0.44
1:J:817:GLN:HB3	2:K:127:ARG:CZ	2.48	0.44
1:J:830:PRO:CG	2:K:67:MET:HE2	2.47	0.44
3:L:48:LYS:HD3	3:L:48:LYS:HA	1.17	0.44
1:M:88:ILE:HG22	1:M:90:ASP:C	2.42	0.44
1:M:99:GLU:N	1:M:100:PRO:CD	2.80	0.44
1:M:136:ASN:C	1:M:138:MLY:N	2.75	0.44
1:M:464:ILE:CG2	1:M:465:ALA:N	2.80	0.44
1:M:725:ARG:CZ	1:M:737:PHE:CZ	3.01	0.44
1:S:186:THR:O	1:S:190:MLY:HG2	2.17	0.44
1:S:464:ILE:CG2	1:S:465:ALA:N	2.80	0.44
1:S:516:GLY:O	1:S:518:ASP:N	2.51	0.44
1:S:541:MET:CE	4:2:346:LEU:HD12	2.47	0.44
1:S:661:MET:HE3	1:S:661:MET:HB3	1.75	0.44
1:S:834:LEU:HD11	2:T:51:PHE:CE1	2.42	0.44
3:U:119:THR:O	3:U:123:VAL:HG23	2.18	0.44
4:2:32:PRO:HB2	4:2:34:ILE:HD11	1.98	0.44
4:4:223:PHE:HB3	4:4:259:GLU:OE2	2.18	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:V:6:THR:HG22	4:V:101:HIS:HA	1.98	0.44
4:V:190:MET:O	4:V:194:THR:HG23	2.16	0.44
4:V:287:ILE:HG13	4:X:202:THR:HG23	1.65	0.44
1:A:64:THR:HB	1:A:68:GLU:N	2.33	0.44
1:A:330:GLU:O	1:A:333:ALA:HB3	2.17	0.44
1:A:502:GLU:OE2	1:A:764:MLY:O	2.35	0.44
1:A:505:MLY:CG	1:A:741:LYS:HZ3	2.25	0.44
1:A:752:ASP:OD2	1:A:782:MLY:CD	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:768:MLY:CA	1:A:771:LEU:HB2	2.41	0.44
1:A:776:GLU:O	1:A:780:ASP:N	2.45	0.44
1:A:798:LEU:HD21	3:C:122:GLU:HB3	1.99	0.44
3:C:48:LYS:HA	3:C:48:LYS:HD3	1.17	0.44
1:D:667:THR:O	1:D:669:PRO:HD3	2.16	0.44
1:D:747:LEU:HD23	1:D:747:LEU:C	2.43	0.44
1:G:93:MET:HE1	1:G:716:LEU:HD12	1.99	0.44
1:G:667:THR:O	1:G:669:PRO:HD3	2.17	0.44
1:G:750:GLY:HA2	3:I:114:LEU:HD13	2.00	0.44
1:G:829:TRP:O	1:G:832:MET:N	2.50	0.44
2:H:113:LYS:C	2:H:147:ASN:HB2	2.43	0.44
2:H:144:VAL:C	2:H:153:ILE:HD11	2.43	0.44
1:J:214:MET:CA	1:J:340:ILE:HD11	2.45	0.44
1:J:354:LEU:HA	1:J:354:LEU:HD12	1.55	0.44
1:J:485:GLU:OE1	1:J:583:HIS:ND1	2.49	0.44
1:J:568:PRO:CG	1:J:578:HIS:H	2.30	0.44
1:J:664:LEU:HD12	1:J:664:LEU:HA	1.52	0.44
1:J:789:ALA:CB	3:L:81:GLN:CD	2.90	0.44
1:J:839:MLY:CH1	2:K:158:THR:HG22	2.48	0.44
2:K:114:LYS:CG	2:K:146:GLY:HA2	2.46	0.44
3:L:122:GLU:HA	3:L:125:GLU:OE1	2.18	0.44
1:M:193:ILE:HD11	1:M:250:ILE:CD1	2.48	0.44
1:M:206:LYS:HD3	1:M:217:THR:OG1	2.16	0.44
1:M:715:VAL:HG11	1:M:720:PHE:CD1	2.50	0.44
3:O:101:THR:HA	3:O:137:ILE:O	2.18	0.44
1:S:725:ARG:HH21	1:S:733:PRO:HB2	1.81	0.44
2:T:144:VAL:C	2:T:153:ILE:HD11	2.43	0.44
4:6:32:PRO:HB2	4:6:34:ILE:HD11	1.98	0.44
4:6:253:GLU:H	4:6:253:GLU:CD	2.25	0.44
4:W:253:GLU:H	4:W:253:GLU:CD	2.25	0.44
4:X:223:PHE:HB3	4:X:259:GLU:OE2	2.18	0.44
4:X:366:GLY:O	4:X:369:ILE:HG22	2.16	0.44
1:A:123:CYS:CB	1:A:158:ILE:HD13	2.48	0.44
1:A:505:MLY:HB2	1:A:761:GLY:CA	2.48	0.44
1:A:725:ARG:HA	1:A:732:ILE:HG22	1.99	0.44
1:D:48:VAL:HA	1:D:104:TYR:OH	2.18	0.44
1:D:87:MLY:HH12	1:D:87:MLY:HD3	1.61	0.44
1:D:266:GLU:OE1	1:D:659:MLY:NZ	2.51	0.44
1:D:464:ILE:CG2	1:D:465:ALA:N	2.79	0.44
1:D:485:GLU:HA	1:D:584:TYR:HE2	1.83	0.44
1:D:496:PHE:CE2	1:D:514:ASP:HA	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:541:MET:CE	4:9:346:LEU:HD12	2.48	0.44
1:D:725:ARG:CG	1:D:733:PRO:CA	2.95	0.44
1:D:810:ARG:HG2	1:D:810:ARG:NH1	2.29	0.44
1:G:179:GLY:O	1:G:185:LYS:HE2	2.17	0.44
1:G:308:ASN:HA	1:G:309:PRO:HD2	1.88	0.44
1:G:322:VAL:CG1	1:G:325:ILE:HD11	2.47	0.44
1:G:516:GLY:O	1:G:518:ASP:N	2.51	0.44
1:G:530:MET:CE	4:V:354:GLN:CB	2.95	0.44
1:G:568:PRO:CG	1:G:578:HIS:H	2.30	0.44
1:G:831:TRP:NE1	2:H:67:MET:CG	2.81	0.44
1:J:193:ILE:HD11	1:J:250:ILE:CD1	2.48	0.44
1:J:322:VAL:CG1	1:J:325:ILE:HD11	2.47	0.44
1:J:418:THR:CG2	1:J:419:VAL:N	2.79	0.44
1:J:835:PHE:O	1:J:839:MLY:N	2.49	0.44
3:L:48:LYS:C	3:L:52:ASN:HD22	1.97	0.44
3:L:69:LEU:HB3	3:L:70:PRO:HD3	2.00	0.44
1:M:48:VAL:HA	1:M:104:TYR:OH	2.18	0.44
1:M:144:ARG:HA	1:M:144:ARG:HD2	1.78	0.44
1:M:174:SER:OG	1:M:669:PRO:HA	2.18	0.44
1:M:176:LEU:N	1:M:176:LEU:CD1	2.75	0.44
1:M:597:GLU:O	1:M:600:MLY:N	2.50	0.44
1:S:195:TYR:CE2	1:S:199:ILE:HD12	2.52	0.44
1:S:541:MET:HG2	4:2:345:ILE:HG22	2.00	0.44
1:S:639:GLY:H	4:2:344:SER:HB3	1.82	0.44
1:S:747:LEU:HD23	1:S:747:LEU:C	2.43	0.44
1:S:829:TRP:O	1:S:832:MET:N	2.50	0.44
2:T:113:LYS:C	2:T:147:ASN:HB2	2.43	0.44
3:U:101:THR:HA	3:U:137:ILE:O	2.18	0.44
4:7:253:GLU:H	4:7:253:GLU:CD	2.25	0.44
4:V:290:ARG:NH1	4:X:202:THR:CG2	2.81	0.44
4:W:223:PHE:HB3	4:W:259:GLU:OE2	2.18	0.44
4:W:290:ARG:NH1	4:Y:202:THR:CG2	2.81	0.44
1:A:715:VAL:HG12	1:A:720:PHE:HB2	2.00	0.44
1:A:725:ARG:CZ	1:A:737:PHE:CZ	3.01	0.44
1:D:163:TYR:O	1:D:166:MET:HB3	2.17	0.44
1:D:174:SER:OG	1:D:669:PRO:HA	2.18	0.44
1:D:516:GLY:O	1:D:518:ASP:N	2.51	0.44
1:D:768:MLY:C	1:D:771:LEU:HA	2.47	0.44
1:D:797:PHE:HD1	3:F:146:ILE:O	2.00	0.44
3:F:50:LEU:O	3:F:53:PRO:HG2	2.18	0.44
1:G:206:LYS:CE	1:G:217:THR:HG23	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:214:MET:HA	1:G:340:ILE:CD1	2.41	0.44
1:G:330:GLU:O	1:G:333:ALA:HB3	2.17	0.44
1:G:346:ASP:O	1:G:350:ALA:N	2.46	0.44
1:G:836:PHE:CZ	2:H:160:GLY:N	2.75	0.44
3:I:122:GLU:HA	3:I:125:GLU:OE1	2.18	0.44
1:J:266:GLU:OE1	1:J:659:MLY:NZ	2.51	0.44
1:J:541:MET:HB3	4:W:345:ILE:HG22	2.00	0.44
2:K:144:VAL:HG12	2:K:153:ILE:HD13	1.92	0.44
3:L:50:LEU:O	3:L:53:PRO:HG2	2.18	0.44
1:M:55:MLY:HH23	1:M:60:VAL:HG22	1.99	0.44
1:S:123:CYS:HB2	1:S:158:ILE:HD13	2.00	0.44
1:S:174:SER:OG	1:S:669:PRO:HA	2.18	0.44
1:S:529:PRO:HB3	4:2:354:GLN:HA	2.00	0.44
1:S:725:ARG:CZ	1:S:737:PHE:CZ	3.01	0.44
4:7:193:LEU:O	4:7:198:TYR:HD2	2.01	0.44
4:Y:253:GLU:H	4:Y:253:GLU:CD	2.25	0.44
1:A:37:SER:O	1:A:38:VAL:HG23	2.17	0.44
1:A:391:GLY:HA3	1:A:616:VAL:HG23	2.00	0.44
1:A:538:GLU:CA	4:8:351:THR:N	2.69	0.44
1:A:541:MET:SD	4:8:345:ILE:C	2.95	0.44
1:A:597:GLU:O	1:A:600:MLY:N	2.50	0.44
1:A:692:LEU:O	1:A:696:ARG:HG3	2.18	0.44
3:C:101:THR:HA	3:C:137:ILE:O	2.18	0.44
1:D:485:GLU:OE2	1:D:584:TYR:N	2.50	0.44
1:G:14:ALA:N	1:G:15:PRO:CD	2.81	0.44
1:G:37:SER:O	1:G:38:VAL:HG23	2.17	0.44
1:G:136:ASN:C	1:G:138:MLY:N	2.75	0.44
1:G:224:SER:O	1:G:227:PRO:HD2	2.17	0.44
1:G:659:MLY:HD2	1:G:659:MLY:HH22	1.42	0.44
1:G:725:ARG:HA	1:G:732:ILE:HG22	1.99	0.44
1:G:795:ARG:NE	3:I:116:GLU:OE2	2.51	0.44
3:I:50:LEU:O	3:I:53:PRO:HG2	2.18	0.44
1:J:55:MLY:HH23	1:J:60:VAL:HG22	1.99	0.44
1:J:166:MET:CE	1:J:254:PHE:HB2	2.47	0.44
1:J:541:MET:CE	4:W:346:LEU:HD12	2.47	0.44
1:J:701:LEU:HD12	1:J:701:LEU:HA	1.55	0.44
1:J:783:LEU:HA	1:J:786:ILE:HB	1.99	0.44
1:M:541:MET:HG2	4:Z:345:ILE:HG22	2.00	0.44
1:M:711:PHE:HB3	1:M:766:PHE:HB3	2.00	0.44
1:M:754:ASP:C	1:M:756:THR:H	2.26	0.44
3:O:50:LEU:O	3:O:53:PRO:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:55:MLY:HH23	1:S:60:VAL:HG22	1.99	0.44
1:S:123:CYS:CB	1:S:158:ILE:HD13	2.48	0.44
1:S:193:ILE:HD11	1:S:250:ILE:CD1	2.48	0.44
1:S:665:ARG:C	1:S:667:THR:N	2.74	0.44
1:S:769:ALA:O	1:S:772:LEU:C	2.61	0.44
3:U:50:LEU:O	3:U:53:PRO:HG2	2.18	0.44
4:1:253:GLU:H	4:1:253:GLU:CD	2.25	0.44
4:2:287:ILE:CB	4:4:203:THR:HB	2.47	0.44
4:3:205:GLU:O	4:3:208:ILE:HG22	2.18	0.44
4:8:32:PRO:HB2	4:8:34:ILE:HD11	1.98	0.44
4:X:286:ASP:OD2	4:Z:203:THR:HG22	2.18	0.44
4:Y:205:GLU:O	4:Y:208:ILE:HG22	2.18	0.44
1:A:295:MLY:CE	1:A:332:MET:CE	2.96	0.43
1:A:439:LEU:N	1:A:439:LEU:CD1	2.81	0.43
1:A:568:PRO:CG	1:A:578:HIS:H	2.30	0.43
1:A:806:MET:SD	3:C:17:PHE:HE2	2.41	0.43
3:C:11:LYS:HE2	3:C:11:LYS:HB3	1.83	0.43
3:C:119:THR:O	3:C:123:VAL:HG23	2.18	0.43
1:D:123:CYS:CB	1:D:158:ILE:HD13	2.48	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.48	0.43
2:E:149:ASP:OD2	2:E:150:TYR:CA	2.64	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.00	0.43
1:G:733:PRO:C	1:G:737:PHE:CE1	2.96	0.43
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.43
1:J:725:ARG:CG	1:J:733:PRO:HA	2.43	0.43
1:J:733:PRO:C	1:J:737:PHE:CE1	2.96	0.43
1:J:839:MLY:NZ	2:K:158:THR:HG22	2.33	0.43
2:K:144:VAL:C	2:K:153:ILE:HD11	2.42	0.43
1:M:95:THR:HB	1:M:713:SER:CB	2.47	0.43
1:M:123:CYS:CB	1:M:158:ILE:HD13	2.48	0.43
1:M:529:PRO:HB3	4:Z:354:GLN:HA	2.00	0.43
1:M:612:GLN:NE2	1:M:627:GLY:H	2.15	0.43
1:M:724:TYR:HD1	1:M:727:LEU:CD1	2.27	0.43
1:M:732:ILE:CG2	1:M:747:LEU:CD1	0.65	0.43
2:N:144:VAL:C	2:N:153:ILE:HD11	2.42	0.43
3:O:119:THR:O	3:O:123:VAL:HG23	2.18	0.43
1:S:64:THR:CG2	1:S:65:GLU:H	2.31	0.43
1:S:64:THR:HB	1:S:68:GLU:N	2.33	0.43
1:S:266:GLU:OE1	1:S:659:MLY:NZ	2.51	0.43
1:S:485:GLU:HA	1:S:584:TYR:HE2	1.83	0.43
1:S:493:HIS:O	1:S:496:PHE:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:675:ILE:HG23	1:S:676:ILE:N	2.32	0.43
1:S:725:ARG:HA	1:S:732:ILE:HG22	1.99	0.43
1:S:751:GLY:C	1:S:753:VAL:HG22	2.43	0.43
1:S:787:ILE:HG21	1:S:787:ILE:HD13	1.67	0.43
4:2:193:LEU:O	4:2:198:TYR:HD2	2.01	0.43
4:2:253:GLU:CD	4:2:253:GLU:H	2.25	0.43
4:3:253:GLU:CD	4:3:253:GLU:H	2.25	0.43
4:5:193:LEU:O	4:5:198:TYR:HD2	2.01	0.43
4:5:223:PHE:HB3	4:5:259:GLU:OE2	2.18	0.43
4:6:223:PHE:HB3	4:6:259:GLU:OE2	2.18	0.43
4:8:324:THR:O	4:V:244:ASP:HA	2.08	0.43
4:9:287:ILE:CB	4:W:204:ALA:H	2.13	0.43
4:V:220:ALA:HB3	4:V:223:PHE:CD1	2.53	0.43
4:X:220:ALA:HB3	4:X:223:PHE:CD1	2.53	0.43
4:X:290:ARG:NH2	4:Z:201:VAL:HG21	2.33	0.43
4:Z:253:GLU:H	4:Z:253:GLU:CD	2.25	0.43
1:A:136:ASN:C	1:A:138:MLY:N	2.75	0.43
1:A:193:ILE:HD11	1:A:250:ILE:CD1	2.48	0.43
1:A:226:ASN:N	1:A:227:PRO:HD2	2.32	0.43
1:A:229:LEU:HA	1:A:229:LEU:HD12	1.75	0.43
1:A:436:MLY:CE	1:A:626:TYR:CE1	2.99	0.43
1:A:493:HIS:O	1:A:496:PHE:HB3	2.18	0.43
1:A:530:MET:CB	4:8:354:GLN:CB	2.95	0.43
1:A:751:GLY:C	1:A:753:VAL:HG22	2.43	0.43
2:B:129:THR:HG23	2:B:132:GLU:OE1	2.18	0.43
1:D:88:ILE:HG21	1:D:88:ILE:HD12	1.78	0.43
1:D:224:SER:O	1:D:227:PRO:HD2	2.17	0.43
1:D:400:ALA:CB	1:D:606:THR:HG22	2.48	0.43
1:D:493:HIS:O	1:D:496:PHE:HB3	2.18	0.43
1:D:800:ARG:HH22	3:F:40:ASN:HD21	1.31	0.43
3:F:52:ASN:CB	3:F:53:PRO:HD3	2.28	0.43
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	0.43
1:G:747:LEU:HD23	1:G:747:LEU:C	2.43	0.43
1:G:831:TRP:CZ3	2:H:34:ILE:HG21	2.52	0.43
2:H:129:THR:HG23	2:H:132:GLU:OE1	2.17	0.43
1:J:224:SER:O	1:J:227:PRO:HD2	2.17	0.43
1:J:496:PHE:HB2	1:J:515:PHE:CD2	2.53	0.43
1:J:795:ARG:CG	3:L:118:MET:HE1	2.34	0.43
2:K:129:THR:HG23	2:K:132:GLU:OE1	2.17	0.43
2:K:140:PHE:HA	2:K:141:PRO:HD2	1.56	0.43
1:M:35:MLY:HG3	1:M:777:GLU:OE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:655:GLU:CD	4:Z:1:ASP:HB2	2.43	0.43
1:M:659:MLY:HD2	1:M:659:MLY:HH22	1.42	0.43
1:M:725:ARG:HA	1:M:732:ILE:HG22	1.99	0.43
1:M:747:LEU:HD23	1:M:747:LEU:C	2.43	0.43
3:O:122:GLU:HA	3:O:125:GLU:OE1	2.18	0.43
1:S:439:LEU:N	1:S:439:LEU:CD1	2.81	0.43
3:U:122:GLU:HA	3:U:125:GLU:OE1	2.18	0.43
4:1:47:MET:HE2	4:1:47:MET:HB2	1.79	0.43
4:2:315:LYS:HD2	4:2:315:LYS:HA	1.92	0.43
4:4:253:GLU:H	4:4:253:GLU:CD	2.25	0.43
4:8:223:PHE:HB3	4:8:259:GLU:OE2	2.18	0.43
4:9:171:LEU:HA	4:9:172:PRO:HD2	1.84	0.43
4:V:223:PHE:HB3	4:V:259:GLU:OE2	2.18	0.43
4:W:299:MET:HE2	4:W:299:MET:HB2	1.82	0.43
4:X:287:ILE:O	4:Z:205:GLU:OE2	2.36	0.43
4:Z:171:LEU:HA	4:Z:172:PRO:HD2	1.84	0.43
1:A:109:ARG:CD	1:A:117:THR:HB	2.49	0.43
1:A:218:LEU:HD22	1:A:222:ILE:HG13	1.95	0.43
1:A:266:GLU:OE1	1:A:659:MLY:NZ	2.51	0.43
1:A:485:GLU:HA	1:A:584:TYR:HE2	1.83	0.43
1:A:643:GLY:CA	4:8:24:ASP:OD1	2.62	0.43
2:B:113:LYS:C	2:B:147:ASN:HB2	2.43	0.43
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	0.43
1:D:409:GLY:HA3	4:9:332:PRO:C	2.43	0.43
1:D:530:MET:CB	4:9:354:GLN:CB	2.95	0.43
1:G:109:ARG:CD	1:G:117:THR:HB	2.48	0.43
1:G:123:CYS:CB	1:G:158:ILE:HD13	2.48	0.43
1:G:166:MET:HE1	1:G:254:PHE:CB	2.46	0.43
1:G:493:HIS:O	1:G:496:PHE:HB3	2.18	0.43
1:G:768:MLY:HG3	1:G:772:LEU:HD23	1.78	0.43
1:G:787:ILE:HG23	1:G:791:GLN:HG3	2.00	0.43
1:G:817:GLN:HE21	2:H:127:ARG:HB2	1.82	0.43
1:J:226:ASN:HB2	1:J:227:PRO:CD	2.47	0.43
1:J:488:GLN:O	1:J:491:PHE:HB3	2.17	0.43
1:J:798:LEU:CD2	3:L:118:MET:SD	3.06	0.43
2:K:113:LYS:C	2:K:147:ASN:HB2	2.43	0.43
1:M:346:ASP:O	1:M:350:ALA:N	2.45	0.43
1:M:516:GLY:O	1:M:518:ASP:N	2.51	0.43
1:M:725:ARG:CG	1:M:733:PRO:CA	2.95	0.43
3:O:69:LEU:HB3	3:O:70:PRO:HD3	2.00	0.43
1:S:48:VAL:HA	1:S:104:TYR:OH	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:519:LEU:N	1:S:519:LEU:CD1	2.77	0.43
1:S:541:MET:HB3	4:2:345:ILE:HG22	2.00	0.43
1:S:655:GLU:CD	4:2:1:ASP:HB2	2.43	0.43
1:S:732:ILE:CG2	1:S:747:LEU:HD11	1.26	0.43
1:S:787:ILE:HG23	1:S:791:GLN:HG3	2.00	0.43
1:S:829:TRP:HZ3	2:T:84:PHE:CE2	2.35	0.43
4:1:205:GLU:O	4:1:208:ILE:HG22	2.18	0.43
4:8:253:GLU:CD	4:8:253:GLU:H	2.25	0.43
4:9:193:LEU:O	4:9:198:TYR:HD2	2.01	0.43
4:V:193:LEU:O	4:V:198:TYR:HD2	2.01	0.43
4:Y:149:THR:HA	4:Y:165:ILE:O	2.19	0.43
4:Z:193:LEU:O	4:Z:198:TYR:HD2	2.01	0.43
1:A:217:THR:HG22	1:A:218:LEU:N	2.34	0.43
1:A:322:VAL:CG1	1:A:325:ILE:HG13	2.49	0.43
1:A:516:GLY:O	1:A:518:ASP:N	2.51	0.43
3:C:52:ASN:CB	3:C:53:PRO:HD3	2.28	0.43
1:D:14:ALA:N	1:D:15:PRO:CD	2.81	0.43
1:D:391:GLY:HA3	1:D:616:VAL:HG23	2.00	0.43
1:D:541:MET:HG2	4:9:345:ILE:HG22	2.00	0.43
1:D:543:PRO:CD	4:9:143:TYR:O	2.64	0.43
1:D:723:ARG:CG	1:D:723:ARG:NH1	2.80	0.43
1:D:727:LEU:HB3	1:D:782:MLY:HH12	1.82	0.43
1:D:797:PHE:CD1	3:F:146:ILE:CB	2.93	0.43
2:E:112:ILE:O	2:E:148:VAL:N	2.50	0.43
2:E:113:LYS:C	2:E:147:ASN:HB2	2.43	0.43
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.43
1:G:226:ASN:N	1:G:227:PRO:HD2	2.32	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HG13	2.49	0.43
1:G:408:VAL:HG22	1:G:636:LYS:HG2	1.51	0.43
1:G:578:HIS:HB3	1:G:592:ILE:CD1	2.38	0.43
1:G:751:GLY:C	1:G:753:VAL:HG22	2.43	0.43
3:I:101:THR:HA	3:I:137:ILE:O	2.18	0.43
1:J:64:THR:CG2	1:J:65:GLU:H	2.32	0.43
1:J:88:ILE:HG21	1:J:88:ILE:HD12	1.78	0.43
1:J:123:CYS:CB	1:J:158:ILE:HD13	2.48	0.43
1:J:174:SER:OG	1:J:669:PRO:HA	2.18	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HG13	2.49	0.43
1:J:391:GLY:HA3	1:J:616:VAL:HG23	2.01	0.43
1:J:639:GLY:H	4:W:344:SER:HB3	1.82	0.43
1:J:642:LYS:HB2	4:W:24:ASP:O	1.89	0.43
1:M:14:ALA:N	1:M:15:PRO:CD	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:28:GLN:CB	1:M:723:ARG:HH12	2.31	0.43
1:M:64:THR:HB	1:M:68:GLU:N	2.33	0.43
1:M:86:ASP:OD2	1:M:87:MLY:HH22	2.19	0.43
1:M:226:ASN:N	1:M:227:PRO:HD2	2.32	0.43
1:M:322:VAL:CG1	1:M:325:ILE:HD11	2.47	0.43
1:M:391:GLY:HA3	1:M:616:VAL:HG23	2.01	0.43
1:M:541:MET:HB3	4:Z:345:ILE:HG22	2.00	0.43
1:S:86:ASP:OD2	1:S:87:MLY:HH22	2.19	0.43
1:S:93:MET:HE3	1:S:716:LEU:HD12	1.98	0.43
1:S:93:MET:HE1	1:S:716:LEU:HD12	1.98	0.43
1:S:226:ASN:N	1:S:227:PRO:HD2	2.32	0.43
1:S:711:PHE:HB3	1:S:766:PHE:HB3	2.00	0.43
1:S:725:ARG:CZ	1:S:737:PHE:CE1	3.02	0.43
1:S:798:LEU:CG	3:U:126:LEU:CD1	2.44	0.43
4:3:149:THR:HA	4:3:165:ILE:O	2.19	0.43
4:4:220:ALA:HB3	4:4:223:PHE:CD1	2.53	0.43
4:5:149:THR:HA	4:5:165:ILE:O	2.19	0.43
4:5:205:GLU:O	4:5:208:ILE:HG22	2.18	0.43
4:6:149:THR:HA	4:6:165:ILE:O	2.19	0.43
4:8:220:ALA:HB3	4:8:223:PHE:CD1	2.53	0.43
4:X:193:LEU:O	4:X:198:TYR:HD2	2.01	0.43
1:A:202:SER:C	1:A:207:LYS:HE3	2.44	0.43
1:A:747:LEU:HD23	1:A:747:LEU:C	2.43	0.43
1:A:787:ILE:HG23	1:A:791:GLN:HG3	2.00	0.43
1:D:40:VAL:HG23	1:D:76:GLN:O	2.19	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HD11	2.47	0.43
1:D:354:LEU:HA	1:D:354:LEU:HD12	1.56	0.43
1:D:637:LYS:HD2	4:9:144:ALA:HB3	1.20	0.43
1:D:798:LEU:HD12	1:D:798:LEU:HA	1.37	0.43
1:D:819:ASN:HB3	2:E:157:ILE:HG21	1.99	0.43
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.43
1:G:201:ALA:O	1:G:202:SER:OG	2.36	0.43
1:G:409:GLY:HA3	4:V:332:PRO:C	2.44	0.43
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	0.43
1:G:655:GLU:CD	4:V:1:ASP:HB2	2.44	0.43
1:G:725:ARG:CZ	1:G:737:PHE:CZ	3.01	0.43
1:G:750:GLY:HA3	3:I:114:LEU:HD22	2.00	0.43
1:G:793:ARG:O	1:G:797:PHE:N	2.39	0.43
1:G:794:CYS:O	1:G:797:PHE:HB3	2.17	0.43
1:J:84:MLY:HH23	1:J:715:VAL:CG1	2.48	0.43
1:J:346:ASP:O	1:J:350:ALA:N	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.43
2:K:137:TRP:CA	2:K:145:ALA:CB	2.82	0.43
1:M:64:THR:CG2	1:M:65:GLU:H	2.31	0.43
1:M:166:MET:HE1	1:M:254:PHE:CB	2.47	0.43
1:M:295:MLY:CE	1:M:332:MET:CE	2.97	0.43
1:M:485:GLU:OE1	1:M:583:HIS:ND1	2.49	0.43
1:M:805:ALA:O	1:M:808:GLU:N	2.51	0.43
2:N:113:LYS:C	2:N:147:ASN:HB2	2.43	0.43
1:S:40:VAL:HG23	1:S:76:GLN:O	2.19	0.43
1:S:798:LEU:HD22	3:U:126:LEU:CD1	2.27	0.43
4:1:193:LEU:O	4:1:198:TYR:HD2	2.01	0.43
4:1:220:ALA:HB3	4:1:223:PHE:CD1	2.53	0.43
4:5:47:MET:HB2	4:5:47:MET:HE2	1.79	0.43
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43
4:9:149:THR:HA	4:9:165:ILE:O	2.19	0.43
4:9:205:GLU:O	4:9:208:ILE:HG22	2.18	0.43
4:V:253:GLU:CD	4:V:253:GLU:H	2.25	0.43
4:X:291:LYS:CE	4:Z:243:PRO:HB3	2.09	0.43
4:Y:220:ALA:HB3	4:Y:223:PHE:CD1	2.53	0.43
1:A:93:MET:HE2	1:A:716:LEU:N	2.33	0.43
2:B:117:LEU:CG	2:B:147:ASN:OD1	2.52	0.43
3:C:122:GLU:HA	3:C:125:GLU:OE1	2.18	0.43
1:D:166:MET:CE	1:D:254:PHE:HB2	2.46	0.43
1:D:173:GLN:HG3	1:D:670:HIS:HD2	1.82	0.43
1:D:195:TYR:CD2	1:D:199:ILE:HD13	2.54	0.43
1:D:217:THR:HG22	1:D:218:LEU:N	2.34	0.43
1:D:274:ARG:HH22	1:D:282:GLU:CD	2.27	0.43
1:D:436:MLY:CE	1:D:626:TYR:CE1	2.99	0.43
1:D:442:VAL:O	1:D:445:ILE:HB	2.19	0.43
1:D:732:ILE:CG2	1:D:747:LEU:HD12	0.35	0.43
1:G:193:ILE:HD11	1:G:250:ILE:CD1	2.48	0.43
1:G:266:GLU:OE1	1:G:659:MLY:NZ	2.51	0.43
1:G:543:PRO:CD	4:V:143:TYR:O	2.64	0.43
1:G:640:LYS:C	1:G:645:SER:HG	2.16	0.43
1:G:701:LEU:HA	1:G:701:LEU:HD12	1.55	0.43
1:G:797:PHE:CE1	3:I:146:ILE:CG2	2.93	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:554:LEU:HD12	1:J:554:LEU:HA	1.77	0.43
1:J:711:PHE:HB3	1:J:766:PHE:HB3	2.00	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CE1	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:798:LEU:HD11	3:L:126:LEU:HD11	0.83	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:266:GLU:OE1	1:M:659:MLY:NZ	2.51	0.43
1:M:530:MET:CE	4:Z:354:GLN:CB	2.96	0.43
1:S:151:ALA:HB1	1:S:152:PRO:HD2	2.01	0.43
1:S:246:PHE:HB3	1:S:270:LEU:HD12	2.01	0.43
1:S:391:GLY:HA3	1:S:616:VAL:HG23	2.01	0.43
1:S:409:GLY:HA3	4:2:332:PRO:C	2.43	0.43
4:4:171:LEU:HA	4:4:172:PRO:HD2	1.84	0.43
4:4:193:LEU:O	4:4:198:TYR:HD2	2.01	0.43
4:5:220:ALA:HB3	4:5:223:PHE:CD1	2.53	0.43
4:8:149:THR:HA	4:8:165:ILE:O	2.19	0.43
4:X:325:MET:HE1	4:Z:244:ASP:OD2	2.18	0.43
1:A:86:ASP:OD2	1:A:87:MLY:HH22	2.19	0.43
1:A:97:LEU:CD2	1:A:712:PRO:CA	2.96	0.43
1:A:123:CYS:HB2	1:A:158:ILE:HD13	2.00	0.43
1:A:151:ALA:HB1	1:A:152:PRO:HD2	2.01	0.43
1:A:308:ASN:HA	1:A:309:PRO:HD2	1.88	0.43
1:A:409:GLY:HA3	4:8:332:PRO:C	2.43	0.43
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	0.43
1:A:537:GLU:C	4:8:350:SER:N	2.77	0.43
1:A:584:TYR:CD1	1:A:584:TYR:C	2.96	0.43
1:D:496:PHE:HB2	1:D:515:PHE:CD2	2.54	0.43
1:D:831:TRP:CD1	2:E:51:PHE:HZ	2.34	0.43
1:G:439:LEU:N	1:G:439:LEU:CD1	2.81	0.43
1:G:530:MET:CE	4:V:354:GLN:HG3	2.34	0.43
1:G:612:GLN:NE2	1:G:627:GLY:H	2.14	0.43
1:G:754:ASP:C	1:G:756:THR:H	2.27	0.43
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	0.43
1:J:202:SER:C	1:J:207:LYS:HE3	2.44	0.43
1:J:541:MET:HG2	4:W:345:ILE:HG22	2.00	0.43
3:L:119:THR:O	3:L:123:VAL:HG23	2.18	0.43
1:M:109:ARG:CD	1:M:117:THR:HB	2.49	0.43
1:M:201:ALA:O	1:M:202:SER:OG	2.36	0.43
1:M:215:GLN:H	1:M:340:ILE:CD1	2.20	0.43
1:M:439:LEU:N	1:M:439:LEU:CD1	2.81	0.43
1:M:568:PRO:CG	1:M:578:HIS:H	2.30	0.43
1:M:629:GLU:HB3	1:M:643:GLY:C	2.41	0.43
1:M:689:GLU:HA	1:M:692:LEU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:725:ARG:CZ	1:M:737:PHE:CE1	3.02	0.43
1:M:798:LEU:HD21	3:O:126:LEU:CD1	2.48	0.43
1:M:817:GLN:HB3	2:N:127:ARG:CZ	2.48	0.43
1:S:84:MLY:HH21	1:S:724:TYR:HE2	1.80	0.43
1:S:500:GLN:HB2	1:S:512:PHE:CZ	2.54	0.43
1:S:689:GLU:HA	1:S:692:LEU:HB2	2.00	0.43
1:S:692:LEU:O	1:S:696:ARG:HG3	2.18	0.43
1:S:731:ALA:HA	3:U:94:PHE:HA	2.01	0.43
2:T:140:PHE:HA	2:T:141:PRO:HD2	1.56	0.43
4:3:193:LEU:O	4:3:198:TYR:HD2	2.01	0.43
4:7:205:GLU:O	4:7:208:ILE:HG22	2.18	0.43
4:8:193:LEU:O	4:8:198:TYR:HD2	2.01	0.43
4:W:205:GLU:O	4:W:208:ILE:HG22	2.18	0.43
4:Z:220:ALA:HB3	4:Z:223:PHE:CD1	2.53	0.43
1:A:529:PRO:HB3	4:8:354:GLN:HA	1.99	0.43
1:A:537:GLU:OE1	4:8:350:SER:HA	2.19	0.43
1:A:757:GLN:HB2	1:A:771:LEU:HD21	1.29	0.43
1:D:123:CYS:HB2	1:D:158:ILE:HD13	2.00	0.43
1:D:246:PHE:HB3	1:D:270:LEU:HD12	2.01	0.43
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.43
1:D:751:GLY:C	1:D:753:VAL:HG22	2.43	0.43
1:D:754:ASP:C	1:D:756:THR:H	2.26	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
3:I:63:ILE:CG2	3:I:64:THR:H	2.32	0.43
3:I:119:THR:O	3:I:123:VAL:HG23	2.18	0.43
1:J:169:ASP:O	1:J:170:ARG:HB2	2.19	0.43
1:J:409:GLY:HA3	4:W:332:PRO:C	2.44	0.43
1:J:584:TYR:CD1	1:J:584:TYR:C	2.96	0.43
1:J:715:VAL:HG12	1:J:720:PHE:HB2	2.00	0.43
1:M:87:MLY:HD3	1:M:87:MLY:HH12	1.62	0.43
1:M:202:SER:C	1:M:207:LYS:HE3	2.44	0.43
1:M:246:PHE:HB3	1:M:270:LEU:HD12	2.01	0.43
1:M:751:GLY:C	1:M:753:VAL:HG22	2.43	0.43
1:S:166:MET:HE1	1:S:254:PHE:CB	2.47	0.43
1:S:214:MET:CA	1:S:340:ILE:HD11	2.45	0.43
1:S:223:ILE:C	1:S:225:ALA:N	2.76	0.43
1:S:411:GLU:H	4:2:333:PRO:CB	2.30	0.43
1:S:799:MET:SD	3:U:32:ASP:CB	3.07	0.43
4:1:149:THR:HA	4:1:165:ILE:O	2.19	0.43
4:2:220:ALA:HB3	4:2:223:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:287:ILE:C	4:5:203:THR:HG22	2.41	0.43
4:6:205:GLU:O	4:6:208:ILE:HG22	2.18	0.43
4:6:220:ALA:HB3	4:6:223:PHE:CD1	2.53	0.43
4:8:287:ILE:HA	4:V:202:THR:HG21	1.59	0.43
4:W:220:ALA:HB3	4:W:223:PHE:CD1	2.53	0.43
4:X:149:THR:HA	4:X:165:ILE:O	2.19	0.43
4:X:238:LYS:HZ2	4:X:239:SER:N	2.17	0.43
4:Y:193:LEU:O	4:Y:198:TYR:HD2	2.01	0.43
1:A:40:VAL:HG23	1:A:76:GLN:O	2.19	0.43
1:A:442:VAL:O	1:A:445:ILE:HB	2.19	0.43
1:A:689:GLU:HA	1:A:692:LEU:HB2	2.00	0.43
1:A:725:ARG:CZ	1:A:737:PHE:CE1	3.02	0.43
2:B:140:PHE:HA	2:B:141:PRO:HD2	1.56	0.43
3:C:50:LEU:O	3:C:53:PRO:HG2	2.18	0.43
1:D:64:THR:CG2	1:D:65:GLU:H	2.32	0.43
1:D:229:LEU:HD12	1:D:229:LEU:HA	1.75	0.43
1:D:724:TYR:HE1	1:D:779:ARG:N	2.16	0.43
1:D:725:ARG:O	1:D:782:MLY:HH22	2.19	0.43
1:D:727:LEU:HG	1:D:782:MLY:HG3	1.24	0.43
3:F:63:ILE:CG2	3:F:64:THR:H	2.32	0.43
1:G:86:ASP:OD2	1:G:87:MLY:HH22	2.19	0.43
1:G:97:LEU:HD21	1:G:712:PRO:C	2.43	0.43
1:G:129:TYR:HD1	1:G:129:TYR:HA	1.65	0.43
1:G:217:THR:HG22	1:G:218:LEU:N	2.34	0.43
1:G:223:ILE:C	1:G:225:ALA:N	2.76	0.43
1:G:406:VAL:O	1:G:412:ALA:HA	2.19	0.43
1:G:689:GLU:HA	1:G:692:LEU:HB2	2.00	0.43
1:G:692:LEU:O	1:G:696:ARG:HG3	2.18	0.43
1:G:732:ILE:CG2	1:G:747:LEU:CD1	0.65	0.43
1:G:834:LEU:CD2	2:H:34:ILE:CD1	2.96	0.43
3:I:69:LEU:HB3	3:I:70:PRO:HD3	1.99	0.43
1:J:63:MLY:HH23	1:J:63:MLY:HD3	1.76	0.43
1:J:84:MLY:HG2	1:J:723:ARG:CB	2.33	0.43
1:J:217:THR:HG22	1:J:218:LEU:N	2.34	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:CZ	3.01	0.43
1:J:751:GLY:C	1:J:753:VAL:HG22	2.43	0.43
1:M:97:LEU:HD12	1:M:97:LEU:HA	1.67	0.43
1:M:400:ALA:CB	1:M:606:THR:HG22	2.49	0.43
1:M:541:MET:CG	4:Z:345:ILE:C	2.87	0.43
1:M:692:LEU:O	1:M:696:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:733:PRO:C	1:M:737:PHE:CE1	2.96	0.43
1:S:17:LEU:HD12	1:S:17:LEU:HA	1.67	0.43
1:S:400:ALA:CB	1:S:606:THR:HG22	2.49	0.43
1:S:406:VAL:O	1:S:412:ALA:HA	2.19	0.43
1:S:715:VAL:HG12	1:S:720:PHE:HB2	2.00	0.43
1:S:732:ILE:HG23	1:S:747:LEU:HD12	0.95	0.43
1:S:803:TYR:CE2	3:U:17:PHE:HZ	2.30	0.43
4:2:110:LEU:O	4:3:195:GLU:CA	2.58	0.43
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.43
4:8:47:MET:HE2	4:8:47:MET:HB2	1.79	0.43
4:8:205:GLU:O	4:8:208:ILE:HG22	2.18	0.43
1:A:294:ASN:OD1	1:A:307:THR:HG21	2.19	0.43
1:A:496:PHE:HB2	1:A:515:PHE:CD2	2.53	0.43
1:A:541:MET:CE	4:8:346:LEU:HD12	2.48	0.43
1:A:637:LYS:HD2	4:8:144:ALA:HB3	1.21	0.43
1:A:712:PRO:HB2	1:A:713:SER:H	1.61	0.43
2:B:137:TRP:CZ3	2:B:145:ALA:N	2.81	0.43
2:B:140:PHE:CD2	2:B:144:VAL:HG11	2.54	0.43
1:D:169:ASP:O	1:D:170:ARG:HB2	2.19	0.43
1:D:279:LEU:CB	1:D:280:PRO:HD2	2.49	0.43
1:D:294:ASN:OD1	1:D:307:THR:HG21	2.19	0.43
1:D:485:GLU:OE1	1:D:583:HIS:ND1	2.49	0.43
1:D:533:PHE:HD1	1:D:533:PHE:HA	1.79	0.43
1:D:612:GLN:NE2	1:D:627:GLY:H	2.14	0.43
1:G:485:GLU:OE1	1:G:583:HIS:ND1	2.49	0.43
1:G:496:PHE:HB2	1:G:515:PHE:CD2	2.53	0.43
1:G:556:ASP:HB2	4:X:47:MET:HE2	1.05	0.43
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.43
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.43
1:J:223:ILE:C	1:J:225:ALA:N	2.76	0.43
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.43
1:J:530:MET:CA	4:W:354:GLN:CD	2.86	0.43
1:J:675:ILE:HG23	1:J:676:ILE:N	2.33	0.43
1:J:747:LEU:HD23	1:J:747:LEU:C	2.43	0.43
1:J:754:ASP:C	1:J:756:THR:H	2.27	0.43
1:M:40:VAL:HG23	1:M:76:GLN:O	2.19	0.43
1:M:409:GLY:HA3	4:Z:332:PRO:C	2.44	0.43
1:M:506:GLU:HG3	1:M:760:PHE:O	2.19	0.43
1:M:537:GLU:OE1	4:Z:350:SER:HA	2.19	0.43
1:M:797:PHE:CD2	3:O:126:LEU:CD2	3.02	0.43
1:S:169:ASP:O	1:S:170:ARG:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:202:SER:C	1:S:207:LYS:HE3	2.43	0.43
1:S:274:ARG:HH22	1:S:282:GLU:CD	2.27	0.43
1:S:536:LEU:HD12	1:S:536:LEU:HA	1.69	0.43
1:S:537:GLU:C	4:2:350:SER:N	2.77	0.43
1:S:639:GLY:CA	4:2:344:SER:O	2.39	0.43
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	0.43
4:4:299:MET:HE2	4:4:299:MET:HB2	1.82	0.43
4:9:180:LEU:HD11	4:9:261:LEU:HD23	2.01	0.43
4:9:220:ALA:HB3	4:9:223:PHE:CD1	2.53	0.43
4:W:149:THR:HA	4:W:165:ILE:O	2.19	0.43
4:W:193:LEU:O	4:W:198:TYR:HD2	2.01	0.43
4:Z:223:PHE:HB3	4:Z:259:GLU:OE2	2.18	0.43
1:A:60:VAL:O	1:A:72:VAL:N	2.51	0.42
1:A:322:VAL:HA	1:A:323:PRO:HD3	1.87	0.42
1:A:408:VAL:HG22	1:A:636:LYS:HG2	1.51	0.42
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	0.42
1:D:202:SER:C	1:D:207:LYS:HE3	2.44	0.42
1:D:204:GLU:N	1:D:207:LYS:HE3	2.23	0.42
1:D:215:GLN:H	1:D:340:ILE:CD1	2.21	0.42
1:D:449:LEU:HD12	1:D:449:LEU:HA	1.60	0.42
1:D:584:TYR:CD1	1:D:584:TYR:C	2.96	0.42
1:D:642:LYS:HB3	4:9:24:ASP:HB2	1.37	0.42
1:G:151:ALA:HB1	1:G:152:PRO:HD2	2.01	0.42
1:G:400:ALA:CB	1:G:606:THR:HG22	2.49	0.42
1:G:442:VAL:O	1:G:445:ILE:HB	2.19	0.42
1:G:796:GLY:HA2	3:I:35:ARG:NE	2.31	0.42
2:H:112:ILE:O	2:H:148:VAL:N	2.50	0.42
2:H:114:LYS:CG	2:H:146:GLY:HA2	2.46	0.42
1:J:14:ALA:N	1:J:15:PRO:CD	2.82	0.42
1:J:155:ILE:HG22	1:J:156:PHE:N	2.33	0.42
1:J:195:TYR:CD2	1:J:199:ILE:HD13	2.54	0.42
1:J:400:ALA:CB	1:J:606:THR:HG22	2.49	0.42
1:J:449:LEU:HA	1:J:449:LEU:HD12	1.60	0.42
1:J:530:MET:CE	4:W:354:GLN:CB	2.96	0.42
1:J:829:TRP:O	1:J:832:MET:N	2.50	0.42
1:J:839:MLY:N	1:J:840:PRO:HD2	2.34	0.42
3:L:101:THR:HA	3:L:137:ILE:O	2.18	0.42
1:M:274:ARG:HH22	1:M:282:GLU:CD	2.27	0.42
1:M:322:VAL:CG1	1:M:325:ILE:HG13	2.49	0.42
1:S:62:VAL:HG12	1:S:63:MLY:N	2.34	0.42
1:S:136:ASN:O	1:S:139:VAL:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:144:ARG:HA	1:S:144:ARG:HD2	1.78	0.42
1:S:294:ASN:OD1	1:S:307:THR:HG21	2.19	0.42
1:S:530:MET:CB	4:2:354:GLN:CB	2.95	0.42
1:S:568:PRO:O	1:S:570:PRO:HD3	2.19	0.42
1:S:568:PRO:CG	1:S:578:HIS:H	2.30	0.42
1:S:584:TYR:CD1	1:S:584:TYR:C	2.96	0.42
1:S:636:LYS:C	1:S:637:LYS:HG3	2.44	0.42
1:S:839:MLY:N	1:S:840:PRO:HD2	2.34	0.42
1:S:842:LEU:N	1:S:842:LEU:CD1	2.82	0.42
4:5:180:LEU:HD11	4:5:261:LEU:HD23	2.01	0.42
4:5:315:LYS:HD2	4:5:315:LYS:HA	1.92	0.42
4:7:220:ALA:HB3	4:7:223:PHE:CD1	2.53	0.42
4:V:149:THR:HA	4:V:165:ILE:O	2.19	0.42
4:V:222:ASP:OD1	4:V:224:GLU:HB3	2.19	0.42
1:A:14:ALA:N	1:A:15:PRO:CD	2.81	0.42
1:A:42:HIS:C	1:A:42:HIS:ND1	2.77	0.42
1:A:62:VAL:O	1:A:69:THR:HA	2.19	0.42
1:A:185:LYS:H	1:A:185:LYS:HG3	1.63	0.42
1:A:530:MET:CE	4:8:354:GLN:CB	2.96	0.42
1:A:636:LYS:CB	4:8:334:GLU:OE1	2.67	0.42
1:A:659:MLY:HD2	1:A:659:MLY:HH22	1.42	0.42
2:B:54:MET:O	2:H:21:GLU:OE1	2.38	0.42
1:D:409:GLY:N	1:D:636:LYS:CD	2.71	0.42
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.42
1:D:724:TYR:HB3	1:D:727:LEU:CD1	2.48	0.42
1:D:817:GLN:HG2	2:E:127:ARG:HB3	1.64	0.42
1:G:84:MLY:HH23	1:G:715:VAL:HG13	2.01	0.42
1:G:174:SER:OG	1:G:669:PRO:HA	2.18	0.42
1:G:226:ASN:HB2	1:G:227:PRO:CD	2.48	0.42
1:G:229:LEU:HD12	1:G:229:LEU:HA	1.75	0.42
1:G:246:PHE:HB3	1:G:270:LEU:HD12	2.00	0.42
1:G:274:ARG:HH22	1:G:282:GLU:CD	2.27	0.42
1:G:320:ILE:O	1:G:320:ILE:HG22	2.18	0.42
1:G:541:MET:SD	4:V:345:ILE:C	2.96	0.42
1:G:568:PRO:O	1:G:570:PRO:HD3	2.19	0.42
1:G:692:LEU:HD23	1:G:692:LEU:HA	1.85	0.42
1:G:771:LEU:C	1:G:773:GLY:N	2.75	0.42
1:J:62:VAL:O	1:J:69:THR:HA	2.20	0.42
1:M:406:VAL:O	1:M:412:ALA:HA	2.19	0.42
1:M:584:TYR:CD1	1:M:584:TYR:C	2.96	0.42
1:S:14:ALA:N	1:S:15:PRO:CD	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:148:ARG:HE	1:S:763:THR:HG21	1.84	0.42
1:S:496:PHE:HB2	1:S:515:PHE:CD2	2.53	0.42
1:S:659:MLY:HD2	1:S:659:MLY:HH22	1.42	0.42
1:S:797:PHE:CD1	3:U:149:VAL:HG13	2.54	0.42
1:S:830:PRO:HB2	2:T:67:MET:HE2	2.01	0.42
1:S:831:TRP:NE1	2:T:67:MET:HG2	2.33	0.42
4:1:322:PRO:HB3	4:3:244:ASP:HB2	1.88	0.42
4:2:223:PHE:HB3	4:2:259:GLU:OE2	2.18	0.42
4:4:149:THR:HA	4:4:165:ILE:O	2.19	0.42
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.20	0.42
1:A:174:SER:OG	1:A:669:PRO:HA	2.18	0.42
1:A:195:TYR:CD2	1:A:199:ILE:HD13	2.54	0.42
1:A:400:ALA:CB	1:A:606:THR:HG22	2.48	0.42
1:A:406:VAL:O	1:A:412:ALA:HA	2.19	0.42
1:A:534:SER:CB	4:8:351:THR:HA	2.48	0.42
1:D:136:ASN:HA	1:D:137:PRO:HD3	1.50	0.42
1:D:210:GLN:C	1:D:211:SER:HG	2.19	0.42
1:D:226:ASN:HB2	1:D:227:PRO:CD	2.47	0.42
1:D:406:VAL:O	1:D:412:ALA:HA	2.20	0.42
1:D:568:PRO:O	1:D:570:PRO:HD3	2.19	0.42
1:D:715:VAL:HG12	1:D:720:PHE:HB2	2.00	0.42
1:D:725:ARG:CZ	1:D:737:PHE:CE1	3.01	0.42
1:G:64:THR:CG2	1:G:65:GLU:H	2.32	0.42
1:G:213:LYS:HA	1:G:220:ASP:OD2	2.19	0.42
1:G:584:TYR:CD1	1:G:584:TYR:C	2.96	0.42
1:G:633:GLY:HA2	4:V:25:ASP:HA	1.26	0.42
1:G:642:LYS:HB3	4:V:24:ASP:HB2	1.38	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:295:MLY:CE	1:J:332:MET:CE	2.97	0.42
1:J:408:VAL:HG22	1:J:636:LYS:HG2	1.52	0.42
1:J:502:GLU:C	1:J:504:MLY:N	2.77	0.42
1:J:759:ALA:O	1:J:766:PHE:N	2.32	0.42
2:K:140:PHE:CD2	2:K:144:VAL:HG11	2.54	0.42
1:M:62:VAL:HG12	1:M:63:MLY:N	2.35	0.42
1:M:213:LYS:HA	1:M:220:ASP:OD2	2.19	0.42
1:M:294:ASN:OD1	1:M:307:THR:HG21	2.19	0.42
1:M:496:PHE:HB2	1:M:515:PHE:CD2	2.53	0.42
1:M:500:GLN:HB2	1:M:512:PHE:CZ	2.54	0.42
1:M:534:SER:CB	4:Z:351:THR:HA	2.49	0.42
1:M:568:PRO:O	1:M:570:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:137:TRP:CZ3	2:N:145:ALA:N	2.81	0.42
1:S:38:VAL:HG13	1:S:39:PHE:N	2.35	0.42
1:S:42:HIS:ND1	1:S:42:HIS:C	2.78	0.42
1:S:120:GLY:CA	1:S:764:MLY:CH1	2.82	0.42
1:S:195:TYR:CD2	1:S:199:ILE:HD13	2.54	0.42
1:S:201:ALA:O	1:S:202:SER:OG	2.36	0.42
1:S:213:LYS:HA	1:S:220:ASP:OD2	2.19	0.42
1:S:731:ALA:HB3	3:U:93:VAL:HB	1.97	0.42
1:S:792:ALA:CA	3:U:42:THR:HA	2.45	0.42
1:S:806:MET:C	1:S:807:VAL:CA	2.92	0.42
1:S:818:TYR:CD1	2:T:127:ARG:CZ	3.02	0.42
4:1:180:LEU:HD11	4:1:261:LEU:HD23	2.01	0.42
4:2:171:LEU:HA	4:2:172:PRO:HD2	1.84	0.42
4:2:202:THR:HG21	4:Z:287:ILE:HA	1.59	0.42
4:6:180:LEU:HD11	4:6:261:LEU:HD23	2.02	0.42
4:Z:315:LYS:HD2	4:Z:315:LYS:HA	1.92	0.42
1:A:38:VAL:HG13	1:A:39:PHE:N	2.35	0.42
1:A:166:MET:HE1	1:A:254:PHE:CB	2.46	0.42
1:A:169:ASP:O	1:A:170:ARG:HB2	2.19	0.42
1:A:246:PHE:HB3	1:A:270:LEU:HD12	2.01	0.42
1:A:274:ARG:HH22	1:A:282:GLU:CD	2.27	0.42
1:A:612:GLN:NE2	1:A:627:GLY:H	2.14	0.42
1:A:733:PRO:O	1:A:737:PHE:CE1	2.53	0.42
1:A:793:ARG:HH21	3:C:147:MET:HE3	0.46	0.42
1:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.42
1:D:174:SER:HA	1:D:460:GLY:O	2.20	0.42
1:D:214:MET:C	1:D:340:ILE:HD13	2.45	0.42
1:D:320:ILE:O	1:D:320:ILE:HG22	2.18	0.42
1:D:529:PRO:HB3	4:9:354:GLN:HA	2.00	0.42
1:D:713:SER:HG	1:D:771:LEU:CG	2.17	0.42
1:D:829:TRP:O	1:D:832:MET:N	2.50	0.42
1:D:839:MLY:N	1:D:840:PRO:HD2	2.35	0.42
2:E:140:PHE:CD2	2:E:144:VAL:HG11	2.54	0.42
3:F:119:THR:O	3:F:123:VAL:HG23	2.18	0.42
1:G:62:VAL:HG12	1:G:63:MLY:N	2.34	0.42
1:G:173:GLN:HG3	1:G:670:HIS:CD2	2.55	0.42
1:G:195:TYR:CD2	1:G:199:ILE:HD13	2.54	0.42
1:G:202:SER:C	1:G:207:LYS:HE3	2.44	0.42
1:G:295:MLY:CE	1:G:332:MET:CE	2.97	0.42
1:G:500:GLN:HB2	1:G:512:PHE:CZ	2.54	0.42
1:G:578:HIS:CD2	1:G:592:ILE:H	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	0.42
1:G:818:TYR:C	2:H:90:GLY:HA3	2.44	0.42
1:J:406:VAL:O	1:J:412:ALA:HA	2.19	0.42
1:J:529:PRO:HB3	4:W:354:GLN:HA	2.00	0.42
1:J:530:MET:CB	4:W:354:GLN:CB	2.95	0.42
1:M:206:LYS:CE	1:M:217:THR:HG23	2.29	0.42
1:M:348:MLY:HH12	1:M:348:MLY:HD2	1.81	0.42
1:M:823:PHE:CE1	2:N:156:VAL:O	2.73	0.42
1:M:826:VAL:O	1:M:828:HIS:N	2.53	0.42
1:S:295:MLY:CE	1:S:332:MET:CE	2.97	0.42
1:S:322:VAL:CG1	1:S:325:ILE:HG13	2.49	0.42
1:S:723:ARG:CG	1:S:723:ARG:NH1	2.79	0.42
1:S:750:GLY:N	3:U:89:GLU:HB3	2.33	0.42
4:1:206:ARG:O	4:1:209:VAL:HG12	2.20	0.42
4:2:149:THR:HA	4:2:165:ILE:O	2.19	0.42
4:2:245:GLY:CA	4:Z:324:THR:N	2.69	0.42
4:3:206:ARG:O	4:3:209:VAL:HG12	2.20	0.42
4:6:193:LEU:O	4:6:198:TYR:HD2	2.01	0.42
4:7:180:LEU:HD11	4:7:261:LEU:HD23	2.01	0.42
4:8:222:ASP:OD1	4:8:224:GLU:HB3	2.20	0.42
4:V:180:LEU:HD11	4:V:261:LEU:HD23	2.01	0.42
4:V:206:ARG:O	4:V:209:VAL:HG12	2.20	0.42
4:W:180:LEU:HD11	4:W:261:LEU:HD23	2.02	0.42
4:X:206:ARG:O	4:X:209:VAL:HG12	2.20	0.42
4:Y:180:LEU:HD11	4:Y:261:LEU:HD23	2.01	0.42
1:A:541:MET:HB3	4:8:345:ILE:HG22	2.00	0.42
1:A:568:PRO:O	1:A:570:PRO:HD3	2.19	0.42
1:A:715:VAL:HG11	1:A:720:PHE:CD1	2.50	0.42
1:D:322:VAL:HA	1:D:323:PRO:HD3	1.87	0.42
1:D:655:GLU:CD	4:9:1:ASP:HB2	2.43	0.42
1:G:42:HIS:C	1:G:42:HIS:ND1	2.77	0.42
1:G:62:VAL:O	1:G:69:THR:HA	2.20	0.42
1:G:294:ASN:OD1	1:G:307:THR:HG21	2.19	0.42
1:G:711:PHE:HB3	1:G:766:PHE:HB3	2.00	0.42
1:G:725:ARG:HA	1:G:732:ILE:CG2	2.50	0.42
1:G:823:PHE:CZ	2:H:156:VAL:HG12	2.54	0.42
1:J:123:CYS:HB2	1:J:158:ILE:HD13	2.00	0.42
1:J:144:ARG:HA	1:J:144:ARG:HD2	1.78	0.42
1:J:173:GLN:HG3	1:J:670:HIS:CD2	2.54	0.42
1:J:320:ILE:O	1:J:320:ILE:HG22	2.18	0.42
1:J:541:MET:HG2	4:W:345:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	0.42
1:J:599:ASN:CG	1:J:649:VAL:CB	2.80	0.42
1:J:793:ARG:O	1:J:797:PHE:N	2.39	0.42
2:K:137:TRP:CA	2:K:145:ALA:HB2	2.37	0.42
1:M:195:TYR:CD2	1:M:199:ILE:HD13	2.54	0.42
1:M:636:LYS:C	1:M:637:LYS:HG3	2.44	0.42
1:S:25:ILE:HG23	1:S:29:ASN:HD22	1.85	0.42
1:S:109:ARG:CD	1:S:117:THR:HB	2.49	0.42
1:S:155:ILE:HG22	1:S:156:PHE:N	2.33	0.42
1:S:348:MLY:HH12	1:S:348:MLY:HD2	1.81	0.42
1:S:534:SER:CB	4:2:351:THR:HA	2.49	0.42
1:S:599:ASN:CG	1:S:649:VAL:CB	2.80	0.42
1:S:739:ASP:OD1	1:S:739:ASP:C	2.58	0.42
1:S:751:GLY:HA3	1:S:779:ARG:HH22	1.85	0.42
1:S:754:ASP:C	1:S:756:THR:H	2.26	0.42
1:S:839:MLY:HH11	2:T:158:THR:HG22	2.00	0.42
3:U:11:LYS:HE2	3:U:11:LYS:HB3	1.83	0.42
4:2:206:ARG:O	4:2:209:VAL:HG12	2.20	0.42
4:3:180:LEU:HD11	4:3:261:LEU:HD23	2.02	0.42
4:4:222:ASP:OD1	4:4:224:GLU:HB3	2.19	0.42
4:7:287:ILE:CB	4:9:204:ALA:H	2.13	0.42
4:8:180:LEU:HD11	4:8:261:LEU:HD23	2.02	0.42
4:X:180:LEU:HD11	4:X:261:LEU:HD23	2.01	0.42
4:Y:222:ASP:OD1	4:Y:224:GLU:HB3	2.19	0.42
1:A:218:LEU:HA	1:A:221:GLN:HG3	1.71	0.42
1:A:578:HIS:CD2	1:A:592:ILE:H	2.38	0.42
1:A:661:MET:HB3	1:A:661:MET:HE3	1.74	0.42
1:A:690:LEU:O	1:A:694:GLN:HG3	2.20	0.42
2:B:113:LYS:O	2:B:147:ASN:HB2	2.20	0.42
1:D:62:VAL:O	1:D:69:THR:HA	2.20	0.42
1:D:642:LYS:HB2	4:9:24:ASP:O	1.88	0.42
1:D:834:LEU:HD12	2:E:54:MET:CB	2.44	0.42
1:G:38:VAL:HG13	1:G:39:PHE:N	2.35	0.42
1:G:93:MET:HG3	1:G:714:ARG:HG3	2.01	0.42
1:J:109:ARG:CD	1:J:117:THR:HB	2.49	0.42
1:J:537:GLU:C	4:W:350:SER:N	2.77	0.42
1:J:636:LYS:C	1:J:637:LYS:HG3	2.44	0.42
1:J:642:LYS:HB3	4:W:24:ASP:HB2	1.37	0.42
1:J:690:LEU:O	1:J:694:GLN:HG3	2.20	0.42
1:J:710:GLY:CA	1:J:772:LEU:HD23	2.23	0.42
1:J:735:GLY:HA3	1:J:743:ALA:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:139:ALA:O	2:K:141:PRO:CD	2.51	0.42
1:M:169:ASP:O	1:M:170:ARG:HB2	2.19	0.42
1:M:229:LEU:HD12	1:M:229:LEU:HA	1.75	0.42
1:M:332:MET:H	1:M:332:MET:HG2	1.52	0.42
1:M:537:GLU:C	4:Z:350:SER:N	2.77	0.42
1:M:715:VAL:HG12	1:M:720:PHE:HB2	2.00	0.42
1:M:787:ILE:HG23	1:M:791:GLN:HG3	2.00	0.42
1:M:797:PHE:CZ	3:O:146:ILE:CD1	3.01	0.42
1:S:217:THR:HG22	1:S:218:LEU:N	2.34	0.42
1:S:442:VAL:O	1:S:445:ILE:HB	2.19	0.42
1:S:541:MET:CG	4:2:345:ILE:C	2.87	0.42
1:S:733:PRO:C	1:S:737:PHE:CE1	2.97	0.42
2:T:114:LYS:CG	2:T:146:GLY:HA2	2.46	0.42
4:1:222:ASP:OD1	4:1:224:GLU:HB3	2.19	0.42
4:2:196:ARG:HH21	4:2:249:THR:HG23	1.85	0.42
4:2:205:GLU:O	4:2:208:ILE:HG22	2.19	0.42
4:2:287:ILE:HG12	4:4:203:THR:HB	2.00	0.42
4:4:180:LEU:HD11	4:4:261:LEU:HD23	2.02	0.42
4:4:205:GLU:O	4:4:208:ILE:HG22	2.18	0.42
4:4:206:ARG:O	4:4:209:VAL:HG12	2.20	0.42
4:8:196:ARG:HH21	4:8:249:THR:HG23	1.85	0.42
4:8:206:ARG:O	4:8:209:VAL:HG12	2.20	0.42
4:8:315:LYS:HD2	4:8:315:LYS:HA	1.92	0.42
4:X:205:GLU:O	4:X:208:ILE:HG22	2.19	0.42
4:X:291:LYS:HE2	4:Z:243:PRO:CA	2.41	0.42
4:Z:180:LEU:HD11	4:Z:261:LEU:HD23	2.01	0.42
1:A:132:LEU:C	1:A:134:VAL:H	2.28	0.42
1:A:636:LYS:C	1:A:637:LYS:HG3	2.44	0.42
1:A:744:SER:O	1:A:748:LEU:HD12	2.20	0.42
1:A:819:ASN:H	2:B:90:GLY:HA3	1.84	0.42
1:D:38:VAL:HG13	1:D:39:PHE:N	2.34	0.42
1:D:132:LEU:C	1:D:134:VAL:H	2.28	0.42
1:D:295:MLY:CE	1:D:332:MET:CE	2.97	0.42
1:D:410:ASN:HA	4:9:334:GLU:HB3	1.29	0.42
1:D:578:HIS:CD2	1:D:592:ILE:H	2.38	0.42
1:D:636:LYS:C	1:D:637:LYS:HG3	2.44	0.42
1:D:725:ARG:HA	1:D:732:ILE:CG2	2.50	0.42
1:G:149:GLN:HE21	1:G:149:GLN:HB2	1.71	0.42
1:G:529:PRO:HB3	4:V:354:GLN:HA	2.00	0.42
1:G:725:ARG:CZ	1:G:737:PHE:CE1	3.02	0.42
2:H:149:ASP:CG	2:H:150:TYR:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.67	0.42
1:J:41:VAL:CG1	1:J:42:HIS:N	2.75	0.42
1:J:537:GLU:OE1	4:W:350:SER:HA	2.19	0.42
1:J:578:HIS:CD2	1:J:592:ILE:H	2.38	0.42
1:J:723:ARG:NH1	1:J:723:ARG:CG	2.79	0.42
1:J:791:GLN:OE1	3:L:116:GLU:CG	2.59	0.42
1:M:462:LEU:HD11	1:M:464:ILE:CD1	2.50	0.42
1:M:747:LEU:O	1:M:749:GLY:N	2.53	0.42
1:M:818:TYR:N	2:N:127:ARG:HH11	2.18	0.42
1:M:829:TRP:HH2	2:N:83:MET:HE3	1.83	0.42
1:S:537:GLU:OE1	4:2:350:SER:HA	2.19	0.42
1:S:553:MLY:N	4:4:49:GLN:HG3	2.27	0.42
1:S:747:LEU:O	1:S:749:GLY:N	2.53	0.42
2:T:113:LYS:O	2:T:147:ASN:HB2	2.20	0.42
4:6:196:ARG:HH21	4:6:249:THR:HG23	1.85	0.42
4:7:206:ARG:O	4:7:209:VAL:HG12	2.20	0.42
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.42
1:A:110:TYR:O	1:A:113:TRP:N	2.42	0.42
1:A:541:MET:HG2	4:8:345:ILE:HG22	2.00	0.42
1:A:754:ASP:C	1:A:756:THR:H	2.26	0.42
1:A:775:LEU:HD12	1:A:775:LEU:HA	1.71	0.42
1:D:332:MET:H	1:D:332:MET:HG2	1.52	0.42
1:D:636:LYS:CB	4:9:334:GLU:OE1	2.68	0.42
1:D:804:ARG:NH2	3:F:149:VAL:HA	2.35	0.42
1:G:537:GLU:OE1	4:V:350:SER:HA	2.20	0.42
1:G:541:MET:HB3	4:V:345:ILE:HG22	2.01	0.42
1:G:553:MLY:C	4:X:46:GLY:HA3	2.50	0.42
1:G:555:TYR:C	1:G:557:GLU:N	2.77	0.42
1:G:673:ARG:HD2	1:G:673:ARG:HA	1.79	0.42
1:G:747:LEU:O	1:G:749:GLY:N	2.52	0.42
1:G:819:ASN:ND2	2:H:92:ASP:CA	2.82	0.42
1:G:839:MLY:N	1:G:840:PRO:HD2	2.35	0.42
1:J:174:SER:HA	1:J:460:GLY:O	2.20	0.42
1:J:500:GLN:HB2	1:J:512:PHE:CZ	2.54	0.42
1:J:553:MLY:CB	4:Y:46:GLY:HA3	2.49	0.42
1:J:635:GLY:C	4:W:341:ILE:HG21	2.45	0.42
1:J:741:LYS:HG2	1:J:742:LYS:N	2.35	0.42
1:J:744:SER:O	1:J:748:LEU:HD12	2.20	0.42
1:J:792:ALA:CA	3:L:42:THR:HA	2.42	0.42
1:J:836:PHE:CE1	2:K:159:HIS:C	2.98	0.42
1:J:842:LEU:N	1:J:842:LEU:CD1	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:25:ILE:O	3:L:63:ILE:CB	2.66	0.42
1:M:35:MLY:CH1	1:M:781:ASP:OD2	2.67	0.42
1:M:214:MET:C	1:M:340:ILE:HD13	2.45	0.42
1:M:320:ILE:O	1:M:320:ILE:HG22	2.18	0.42
1:M:744:SER:O	1:M:748:LEU:HD12	2.20	0.42
1:S:62:VAL:O	1:S:69:THR:HA	2.20	0.42
1:S:132:LEU:C	1:S:134:VAL:H	2.28	0.42
1:S:676:ILE:HA	1:S:677:PRO:HD3	1.82	0.42
1:S:839:MLY:HH11	2:T:158:THR:CG2	2.49	0.42
4:2:180:LEU:HD11	4:2:261:LEU:HD23	2.01	0.42
4:2:222:ASP:OD1	4:2:224:GLU:HB3	2.20	0.42
4:3:222:ASP:OD1	4:3:224:GLU:HB3	2.20	0.42
4:6:222:ASP:OD1	4:6:224:GLU:HB3	2.20	0.42
4:V:205:GLU:O	4:V:208:ILE:HG22	2.18	0.42
4:V:315:LYS:HD2	4:V:315:LYS:HA	1.92	0.42
4:W:222:ASP:OD1	4:W:224:GLU:HB3	2.19	0.42
4:X:222:ASP:OD1	4:X:224:GLU:HB3	2.20	0.42
4:X:299:MET:HE2	4:X:299:MET:HB2	1.82	0.42
1:A:62:VAL:HG12	1:A:63:MLY:N	2.35	0.42
1:A:732:ILE:CG2	1:A:747:LEU:HD12	0.35	0.42
1:A:735:GLY:HA3	1:A:743:ALA:HA	2.01	0.42
1:A:797:PHE:CD2	1:A:798:LEU:HD12	2.55	0.42
2:B:114:LYS:CG	2:B:146:GLY:HA2	2.46	0.42
1:D:11:GLY:O	1:D:14:ALA:HB3	2.20	0.42
1:D:151:ALA:HB1	1:D:152:PRO:HD2	2.01	0.42
1:D:202:SER:HB2	1:D:207:LYS:HZ1	1.85	0.42
1:D:733:PRO:C	1:D:737:PHE:CE1	2.97	0.42
1:D:813:ILE:HG23	2:E:128:PHE:HZ	0.66	0.42
1:G:11:GLY:O	1:G:14:ALA:HB3	2.20	0.42
1:G:60:VAL:O	1:G:72:VAL:N	2.51	0.42
1:G:169:ASP:O	1:G:170:ARG:HB2	2.19	0.42
1:G:724:TYR:HB3	1:G:727:LEU:CD1	2.48	0.42
1:J:553:MLY:C	4:Y:46:GLY:HA3	2.50	0.42
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.42
1:M:442:VAL:O	1:M:445:ILE:HB	2.19	0.42
1:M:536:LEU:HA	1:M:536:LEU:HD12	1.69	0.42
1:M:578:HIS:CD2	1:M:592:ILE:H	2.38	0.42
1:M:692:LEU:HA	1:M:692:LEU:HD23	1.85	0.42
2:N:140:PHE:CD2	2:N:144:VAL:HG11	2.54	0.42
1:S:195:TYR:CE2	1:S:199:ILE:HD13	2.55	0.42
1:S:539:GLU:OE2	1:S:553:MLY:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:793:ARG:CD	3:U:40:ASN:HD22	2.17	0.42
1:S:829:TRP:CE2	2:T:87:LYS:HE2	2.50	0.42
3:U:25:ILE:O	3:U:63:ILE:CB	2.66	0.42
4:1:369:ILE:HG23	4:1:370:VAL:N	2.35	0.42
4:4:193:LEU:HD11	4:4:250:ILE:HG13	2.02	0.42
4:X:369:ILE:HG23	4:X:370:VAL:N	2.35	0.42
4:Y:206:ARG:O	4:Y:209:VAL:HG12	2.20	0.42
1:A:64:THR:CG2	1:A:65:GLU:H	2.32	0.42
1:A:195:TYR:CE2	1:A:199:ILE:HD13	2.55	0.42
1:A:335:ASP:O	1:A:338:ILE:HB	2.20	0.42
1:A:673:ARG:HD2	1:A:673:ARG:HA	1.79	0.42
1:A:752:ASP:HB3	1:A:782:MLY:HD3	2.00	0.42
1:D:42:HIS:C	1:D:42:HIS:ND1	2.77	0.42
1:D:86:ASP:OD2	1:D:87:MLY:HH22	2.19	0.42
1:D:214:MET:CA	1:D:340:ILE:HD11	2.45	0.42
1:D:223:ILE:C	1:D:225:ALA:N	2.76	0.42
1:D:356:GLY:HA2	1:D:359:MET:HG3	2.02	0.42
1:D:500:GLN:HB2	1:D:512:PHE:CZ	2.54	0.42
1:D:507:GLY:CA	1:D:762:HIS:NE2	2.83	0.42
1:D:795:ARG:NE	3:F:116:GLU:CB	2.80	0.42
1:D:826:VAL:O	1:D:828:HIS:N	2.53	0.42
1:G:93:MET:HA	1:G:714:ARG:CG	2.50	0.42
1:G:132:LEU:C	1:G:134:VAL:H	2.28	0.42
1:G:728:ASN:HD21	3:I:113:THR:C	2.26	0.42
1:G:754:ASP:CG	1:G:779:ARG:HB2	2.35	0.42
1:J:151:ALA:HB1	1:J:152:PRO:HD2	2.01	0.42
1:J:195:TYR:CE2	1:J:199:ILE:HD13	2.55	0.42
1:J:408:VAL:HA	1:J:636:LYS:HG3	1.03	0.42
1:J:442:VAL:O	1:J:445:ILE:HB	2.19	0.42
1:J:747:LEU:O	1:J:749:GLY:N	2.53	0.42
1:J:787:ILE:HG23	1:J:791:GLN:HG3	2.00	0.42
1:M:17:LEU:HA	1:M:17:LEU:HD12	1.68	0.42
1:M:141:LEU:HD12	1:M:141:LEU:N	2.32	0.42
1:M:330:GLU:HA	1:M:330:GLU:OE1	2.20	0.42
1:M:445:ILE:HG22	1:M:449:LEU:HD22	2.02	0.42
1:S:11:GLY:O	1:S:14:ALA:HB3	2.20	0.42
1:S:173:GLN:HG3	1:S:670:HIS:CD2	2.54	0.42
1:S:226:ASN:HB2	1:S:227:PRO:CD	2.47	0.42
1:S:445:ILE:HG22	1:S:449:LEU:HD22	2.02	0.42
1:S:636:LYS:CB	4:2:334:GLU:OE1	2.68	0.42
1:S:770:GLY:O	1:S:771:LEU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:826:VAL:O	1:S:828:HIS:N	2.53	0.42
2:T:144:VAL:HG12	2:T:153:ILE:HD11	1.75	0.42
4:4:287:ILE:HG21	4:6:202:THR:CA	2.49	0.42
4:5:193:LEU:HD11	4:5:250:ILE:HG13	2.02	0.42
4:8:193:LEU:HD11	4:8:250:ILE:HG13	2.02	0.42
4:W:171:LEU:HA	4:W:172:PRO:HD2	1.84	0.42
4:X:315:LYS:HD2	4:X:315:LYS:HA	1.92	0.42
4:Z:149:THR:HA	4:Z:165:ILE:O	2.19	0.42
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.99	0.41
1:A:173:GLN:HG3	1:A:670:HIS:CD2	2.54	0.41
1:A:330:GLU:OE1	1:A:330:GLU:HA	2.20	0.41
1:A:332:MET:H	1:A:332:MET:HG2	1.52	0.41
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	0.41
1:A:445:ILE:HG22	1:A:449:LEU:HD22	2.01	0.41
1:A:449:LEU:N	1:A:449:LEU:CD1	2.82	0.41
1:A:724:TYR:HB3	1:A:727:LEU:CD1	2.48	0.41
3:C:63:ILE:CG2	3:C:64:THR:H	2.33	0.41
1:D:129:TYR:HD1	1:D:129:TYR:HA	1.66	0.41
1:D:471:ASP:CB	1:D:573:GLY:O	2.68	0.41
1:D:534:SER:CB	4:9:351:THR:HA	2.49	0.41
1:D:713:SER:O	1:D:771:LEU:HD21	2.19	0.41
1:G:141:LEU:HD12	1:G:141:LEU:N	2.32	0.41
1:G:445:ILE:HG22	1:G:449:LEU:HD22	2.01	0.41
1:G:530:MET:HE3	4:V:354:GLN:HG2	1.89	0.41
1:G:537:GLU:C	4:V:350:SER:N	2.78	0.41
1:G:636:LYS:CB	4:V:334:GLU:OE1	2.68	0.41
3:I:48:LYS:HD3	3:I:48:LYS:HA	1.17	0.41
1:J:38:VAL:HG13	1:J:39:PHE:N	2.35	0.41
1:J:471:ASP:CB	1:J:573:GLY:O	2.68	0.41
1:J:797:PHE:CD2	1:J:798:LEU:HD12	2.55	0.41
1:J:826:VAL:O	1:J:828:HIS:N	2.53	0.41
1:M:42:HIS:C	1:M:42:HIS:ND1	2.78	0.41
1:M:84:MLY:HD3	1:M:723:ARG:HD2	2.02	0.41
1:M:202:SER:HA	1:M:207:LYS:NZ	2.22	0.41
1:M:636:LYS:CB	4:Z:334:GLU:OE1	2.68	0.41
1:M:795:ARG:CZ	3:O:116:GLU:CD	2.92	0.41
3:O:63:ILE:CG2	3:O:64:THR:H	2.33	0.41
1:S:217:THR:CA	1:S:221:GLN:HE21	2.33	0.41
1:S:725:ARG:HA	1:S:732:ILE:CG2	2.50	0.41
1:S:798:LEU:CG	3:U:126:LEU:HD21	2.42	0.41
4:1:193:LEU:HD11	4:1:250:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:196:ARG:HH21	4:1:249:THR:HG23	1.85	0.41
4:1:221:LEU:HA	4:1:312:ARG:HG2	2.02	0.41
4:2:226:GLU:HG3	4:2:255:PHE:CE2	2.55	0.41
4:3:193:LEU:HD11	4:3:250:ILE:HG13	2.02	0.41
4:4:369:ILE:HG23	4:4:370:VAL:N	2.35	0.41
4:5:171:LEU:HA	4:5:172:PRO:HD2	1.84	0.41
4:6:299:MET:HE2	4:6:299:MET:HB2	1.82	0.41
4:9:222:ASP:OD1	4:9:224:GLU:HB3	2.19	0.41
4:X:193:LEU:HD11	4:X:250:ILE:HG13	2.02	0.41
4:Y:221:LEU:HA	4:Y:312:ARG:HG2	2.02	0.41
4:Z:206:ARG:O	4:Z:209:VAL:HG12	2.20	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	2.79	0.41
1:A:136:ASN:O	1:A:138:MLY:N	2.54	0.41
1:A:223:ILE:C	1:A:225:ALA:N	2.76	0.41
1:D:81:ASN:CG	1:D:96:HIS:HB2	2.45	0.41
1:D:173:GLN:HG3	1:D:670:HIS:CD2	2.54	0.41
1:D:271:GLU:OE1	1:D:274:ARG:NH1	2.53	0.41
1:D:335:ASP:O	1:D:338:ILE:HB	2.20	0.41
1:D:462:LEU:HD11	1:D:464:ILE:CD1	2.50	0.41
1:D:507:GLY:HA3	1:D:762:HIS:H	1.85	0.41
1:D:568:PRO:CG	1:D:578:HIS:N	2.83	0.41
1:D:747:LEU:O	1:D:749:GLY:N	2.52	0.41
1:D:834:LEU:HD21	2:E:54:MET:CG	2.50	0.41
2:E:137:TRP:CA	2:E:145:ALA:CB	2.82	0.41
3:F:62:ALA:O	3:F:63:ILE:HG13	2.14	0.41
1:G:81:ASN:CG	1:G:96:HIS:HB2	2.45	0.41
1:G:123:CYS:HB2	1:G:158:ILE:HD13	2.00	0.41
1:G:195:TYR:CE2	1:G:199:ILE:HD13	2.55	0.41
1:G:214:MET:C	1:G:340:ILE:HD13	2.45	0.41
1:G:335:ASP:O	1:G:338:ILE:HB	2.20	0.41
1:G:741:LYS:HG2	1:G:742:LYS:N	2.35	0.41
1:G:772:LEU:HA	1:G:772:LEU:HD12	1.82	0.41
1:G:821:ARG:HH22	2:H:127:ARG:CD	2.30	0.41
2:H:113:LYS:O	2:H:147:ASN:HB2	2.20	0.41
1:J:11:GLY:O	1:J:14:ALA:HB3	2.20	0.41
1:J:214:MET:C	1:J:340:ILE:HD13	2.45	0.41
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.41
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.41
1:M:81:ASN:CG	1:M:96:HIS:HB2	2.45	0.41
1:M:533:PHE:HD1	1:M:533:PHE:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:538:GLU:OE1	4:Z:355:MET:HE1	2.17	0.41
1:S:214:MET:C	1:S:340:ILE:HD13	2.45	0.41
1:S:330:GLU:HG2	1:S:330:GLU:H	1.54	0.41
1:S:369:MLY:HH22	1:S:369:MLY:HD3	1.78	0.41
1:S:436:MLY:HE3	1:S:626:TYR:HE1	1.77	0.41
1:S:791:GLN:OE1	3:U:116:GLU:CB	2.69	0.41
1:S:836:PHE:CG	2:T:160:GLY:N	2.88	0.41
4:3:196:ARG:HH21	4:3:249:THR:HG23	1.85	0.41
4:5:196:ARG:HH21	4:5:249:THR:HG23	1.85	0.41
4:5:206:ARG:O	4:5:209:VAL:HG12	2.20	0.41
4:8:226:GLU:HG3	4:8:255:PHE:CE2	2.55	0.41
4:9:206:ARG:O	4:9:209:VAL:HG12	2.20	0.41
4:V:193:LEU:HD11	4:V:250:ILE:HG13	2.02	0.41
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	0.41
4:Z:47:MET:HE2	4:Z:47:MET:HB2	1.79	0.41
4:Z:193:LEU:HD11	4:Z:250:ILE:HG13	2.02	0.41
1:A:11:GLY:O	1:A:14:ALA:HB3	2.20	0.41
1:A:214:MET:C	1:A:340:ILE:HD13	2.45	0.41
1:A:541:MET:N	4:8:349:LEU:CD2	2.69	0.41
1:A:692:LEU:HD23	1:A:692:LEU:HA	1.85	0.41
1:A:826:VAL:O	1:A:828:HIS:N	2.53	0.41
2:B:149:ASP:OD2	2:B:150:TYR:CA	2.64	0.41
1:D:551:MLY:C	4:W:47:MET:HA	2.48	0.41
1:D:713:SER:HG	1:D:771:LEU:HD21	1.80	0.41
1:D:787:ILE:HG23	1:D:791:GLN:HG3	2.01	0.41
1:D:797:PHE:CD2	1:D:798:LEU:HD12	2.55	0.41
2:E:113:LYS:O	2:E:147:ASN:HB2	2.20	0.41
1:G:25:ILE:HG23	1:G:29:ASN:HD22	1.85	0.41
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.41
1:G:641:LYS:C	4:V:22:ALA:O	2.61	0.41
1:G:757:GLN:OE1	1:G:772:LEU:CB	2.59	0.41
1:G:787:ILE:HG21	1:G:787:ILE:HD13	1.67	0.41
3:I:11:LYS:HB3	3:I:11:LYS:HE2	1.83	0.41
1:J:464:ILE:HD13	1:J:464:ILE:HG21	1.69	0.41
1:M:32:PHE:O	1:M:780:ASP:CG	2.59	0.41
1:M:63:MLY:HH23	1:M:63:MLY:HD3	1.76	0.41
1:M:132:LEU:C	1:M:134:VAL:H	2.28	0.41
1:M:136:ASN:O	1:M:138:MLY:N	2.54	0.41
1:M:471:ASP:CB	1:M:573:GLY:O	2.68	0.41
1:M:556:ASP:OD1	4:2:50:LYS:CG	2.69	0.41
1:M:725:ARG:HA	1:M:732:ILE:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:733:PRO:CB	1:M:737:PHE:CE1	3.02	0.41
1:M:797:PHE:HE1	3:O:149:VAL:HG12	1.79	0.41
1:M:818:TYR:C	2:N:90:GLY:HA3	2.45	0.41
1:M:839:MLY:N	1:M:840:PRO:HD2	2.35	0.41
2:N:113:LYS:O	2:N:147:ASN:HB2	2.20	0.41
1:S:141:LEU:HD12	1:S:141:LEU:N	2.32	0.41
1:S:202:SER:HA	1:S:207:LYS:NZ	2.22	0.41
1:S:356:GLY:HA2	1:S:359:MET:HG3	2.02	0.41
1:S:462:LEU:HD11	1:S:464:ILE:CD1	2.50	0.41
1:S:538:GLU:OE1	4:2:355:MET:HE1	2.17	0.41
1:S:690:LEU:O	1:S:694:GLN:HG3	2.20	0.41
1:S:797:PHE:CG	3:U:146:ILE:HG23	2.53	0.41
3:U:63:ILE:CG2	3:U:64:THR:H	2.32	0.41
4:2:202:THR:CG2	4:Z:287:ILE:N	2.77	0.41
4:3:287:ILE:CB	4:5:204:ALA:H	2.33	0.41
4:5:226:GLU:HG3	4:5:255:PHE:CE2	2.55	0.41
4:7:369:ILE:HG23	4:7:370:VAL:N	2.35	0.41
4:9:193:LEU:HD11	4:9:250:ILE:HG13	2.02	0.41
4:9:196:ARG:HH21	4:9:249:THR:HG23	1.85	0.41
1:A:135:TYR:HD2	1:A:191:ARG:CG	2.33	0.41
1:A:504:MLY:HG3	1:A:762:HIS:CE1	2.55	0.41
1:A:732:ILE:HG23	1:A:747:LEU:HD13	1.37	0.41
1:D:530:MET:CE	4:9:354:GLN:CB	2.96	0.41
1:D:537:GLU:C	4:9:350:SER:N	2.77	0.41
1:D:635:GLY:C	4:9:341:ILE:HG21	2.46	0.41
1:D:718:ALA:C	1:D:720:PHE:N	2.79	0.41
1:D:798:LEU:HD13	3:F:126:LEU:HD13	1.91	0.41
1:D:819:ASN:HA	2:E:90:GLY:O	2.19	0.41
1:G:63:MLY:HH23	1:G:63:MLY:HD3	1.76	0.41
1:G:462:LEU:HD11	1:G:464:ILE:CD1	2.50	0.41
1:G:568:PRO:CG	1:G:578:HIS:N	2.83	0.41
1:G:744:SER:O	1:G:748:LEU:HD12	2.20	0.41
1:G:834:LEU:HD22	2:H:34:ILE:CD1	2.50	0.41
1:J:42:HIS:ND1	1:J:42:HIS:C	2.78	0.41
1:J:110:TYR:C	1:J:112:ALA:N	2.79	0.41
1:J:539:GLU:OE2	1:J:553:MLY:HD3	2.20	0.41
1:J:568:PRO:CG	1:J:578:HIS:N	2.84	0.41
1:J:637:LYS:HD2	4:W:144:ALA:HB3	1.20	0.41
1:J:732:ILE:HG23	1:J:747:LEU:HD12	0.95	0.41
1:M:11:GLY:O	1:M:14:ALA:HB3	2.20	0.41
1:M:38:VAL:HG13	1:M:39:PHE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:173:GLN:HG3	1:M:670:HIS:CD2	2.54	0.41
1:M:296:MLY:HH11	1:M:348:MLY:CH2	2.48	0.41
1:M:335:ASP:O	1:M:338:ILE:HB	2.20	0.41
1:M:384:ASP:HA	1:M:394:SER:OG	2.21	0.41
1:M:528:MLY:HB2	1:M:529:PRO:HD2	2.03	0.41
1:M:637:LYS:HD2	4:Z:144:ALA:HB3	1.20	0.41
2:N:112:ILE:O	2:N:148:VAL:N	2.50	0.41
3:O:52:ASN:CB	3:O:53:PRO:CD	2.92	0.41
3:O:56:GLU:OE1	3:O:59:ASN:ND2	2.54	0.41
1:S:84:MLY:HH22	1:S:719:ASP:O	2.18	0.41
1:S:204:GLU:N	1:S:207:LYS:HE3	2.23	0.41
1:S:408:VAL:HG22	1:S:636:LYS:HG2	1.51	0.41
1:S:471:ASP:CB	1:S:573:GLY:O	2.68	0.41
1:S:568:PRO:CG	1:S:578:HIS:N	2.84	0.41
1:S:635:GLY:C	4:2:341:ILE:HG21	2.45	0.41
1:S:717:TYR:OH	1:S:760:PHE:HB3	2.21	0.41
1:S:756:THR:HB	1:S:757:GLN:H	1.63	0.41
1:S:797:PHE:CD2	1:S:798:LEU:HD12	2.56	0.41
1:S:817:GLN:HB3	2:T:127:ARG:NE	2.34	0.41
1:S:829:TRP:CZ3	2:T:84:PHE:CE1	3.07	0.41
4:2:288:ASP:OD2	4:4:62:ARG:HG3	2.20	0.41
4:3:369:ILE:HG23	4:3:370:VAL:N	2.35	0.41
4:4:221:LEU:HA	4:4:312:ARG:HG2	2.02	0.41
4:6:171:LEU:HA	4:6:172:PRO:HD2	1.84	0.41
4:6:193:LEU:HD11	4:6:250:ILE:HG13	2.02	0.41
4:7:196:ARG:HH21	4:7:249:THR:HG23	1.85	0.41
4:V:47:MET:HE2	4:V:47:MET:HB2	1.79	0.41
4:X:226:GLU:HG3	4:X:255:PHE:CE2	2.55	0.41
1:A:17:LEU:HA	1:A:17:LEU:HD12	1.68	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.41
1:A:502:GLU:CD	1:A:764:MLY:C	2.87	0.41
1:A:747:LEU:O	1:A:749:GLY:N	2.52	0.41
1:A:806:MET:HE1	3:C:17:PHE:HE2	1.84	0.41
1:D:449:LEU:N	1:D:449:LEU:CD1	2.82	0.41
1:D:787:ILE:HD13	1:D:787:ILE:HG21	1.67	0.41
1:D:800:ARG:CB	3:F:149:VAL:CG2	2.95	0.41
1:G:95:THR:HA	1:G:713:SER:OG	2.20	0.41
1:G:148:ARG:NH2	1:G:764:MLY:HH11	2.35	0.41
1:G:471:ASP:CB	1:G:573:GLY:O	2.68	0.41
1:G:534:SER:CB	4:V:351:THR:HA	2.50	0.41
1:G:750:GLY:HA3	3:I:114:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:796:GLY:CA	3:I:35:ARG:CD	2.77	0.41
1:G:826:VAL:O	1:G:828:HIS:N	2.53	0.41
3:I:25:ILE:O	3:I:63:ILE:CB	2.66	0.41
3:I:95:ASP:OD1	3:I:139:TYR:HE1	2.04	0.41
1:J:62:VAL:HG12	1:J:63:MLY:N	2.35	0.41
1:J:135:TYR:CD2	1:J:191:ARG:HD3	2.55	0.41
1:J:812:SER:O	1:J:816:ILE:HG13	2.21	0.41
3:L:52:ASN:CB	3:L:53:PRO:CD	2.92	0.41
3:L:63:ILE:CG2	3:L:64:THR:H	2.33	0.41
1:M:214:MET:CA	1:M:340:ILE:HD11	2.45	0.41
1:M:762:HIS:CD2	1:M:762:HIS:N	2.78	0.41
3:O:48:LYS:HA	3:O:48:LYS:HD3	1.17	0.41
1:S:384:ASP:HA	1:S:394:SER:OG	2.21	0.41
1:S:449:LEU:N	1:S:449:LEU:CD1	2.82	0.41
1:S:485:GLU:OE2	1:S:584:TYR:N	2.50	0.41
1:S:528:MLY:HB2	1:S:529:PRO:HD2	2.03	0.41
1:S:530:MET:CE	4:2:354:GLN:CB	2.95	0.41
1:S:578:HIS:CD2	1:S:592:ILE:H	2.38	0.41
1:S:731:ALA:CB	3:U:93:VAL:CG1	2.95	0.41
2:T:141:PRO:HB3	2:T:142:PRO:CD	2.49	0.41
4:2:193:LEU:HD11	4:2:250:ILE:HG13	2.02	0.41
4:4:226:GLU:HG3	4:4:255:PHE:CE2	2.56	0.41
4:5:369:ILE:HG23	4:5:370:VAL:N	2.35	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	2.20	0.41
4:V:171:LEU:HA	4:V:172:PRO:HD2	1.84	0.41
4:V:227:MET:O	4:V:230:ALA:HB3	2.21	0.41
4:Y:193:LEU:HD11	4:Y:250:ILE:HG13	2.02	0.41
4:Z:226:GLU:HG3	4:Z:255:PHE:CE2	2.55	0.41
1:A:193:ILE:CD1	1:A:250:ILE:HD13	2.51	0.41
1:A:642:LYS:HB3	4:8:24:ASP:HB2	1.37	0.41
1:A:717:TYR:OH	1:A:760:PHE:HB3	2.20	0.41
1:A:725:ARG:HA	1:A:732:ILE:CG2	2.50	0.41
1:A:733:PRO:C	1:A:737:PHE:CE1	2.97	0.41
1:A:797:PHE:CD1	3:C:146:ILE:CG2	3.03	0.41
1:A:839:MLY:N	1:A:840:PRO:HD2	2.35	0.41
3:C:25:ILE:O	3:C:63:ILE:CB	2.66	0.41
1:D:63:MLY:HD3	1:D:63:MLY:HH23	1.76	0.41
1:D:135:TYR:HD2	1:D:191:ARG:CG	2.33	0.41
1:D:322:VAL:HB	1:D:325:ILE:HD12	2.03	0.41
1:D:330:GLU:HA	1:D:330:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:657:LEU:O	1:D:657:LEU:HD12	2.21	0.41
1:D:741:LYS:HG2	1:D:742:LYS:N	2.35	0.41
1:D:795:ARG:CB	3:F:35:ARG:CZ	2.75	0.41
1:D:812:SER:O	1:D:816:ILE:HG13	2.21	0.41
1:G:136:ASN:O	1:G:138:MLY:N	2.54	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:690:LEU:O	1:G:694:GLN:HG3	2.20	0.41
1:G:817:GLN:NE2	2:H:128:PHE:HE1	2.12	0.41
1:G:827:MLY:HH21	2:H:139:ALA:HB3	2.01	0.41
2:H:137:TRP:CZ3	2:H:145:ALA:N	2.81	0.41
1:J:81:ASN:CG	1:J:96:HIS:HB2	2.45	0.41
1:J:83:PRO:C	1:J:723:ARG:CZ	2.94	0.41
1:J:193:ILE:HD11	1:J:250:ILE:HD12	2.03	0.41
1:J:271:GLU:OE1	1:J:274:ARG:NH1	2.53	0.41
1:J:330:GLU:OE1	1:J:330:GLU:HA	2.20	0.41
1:J:335:ASP:O	1:J:338:ILE:HB	2.20	0.41
1:J:462:LEU:HD11	1:J:464:ILE:CD1	2.50	0.41
1:J:840:PRO:C	1:J:842:LEU:N	2.79	0.41
2:K:112:ILE:O	2:K:148:VAL:N	2.50	0.41
3:L:56:GLU:OE1	3:L:59:ASN:ND2	2.54	0.41
1:M:369:MLY:HH22	1:M:369:MLY:HD3	1.79	0.41
1:M:718:ALA:C	1:M:720:PHE:N	2.79	0.41
1:M:741:LYS:HG2	1:M:742:LYS:N	2.35	0.41
2:N:140:PHE:HB3	2:N:144:VAL:HG11	2.03	0.41
1:S:81:ASN:CG	1:S:96:HIS:HB2	2.45	0.41
1:S:174:SER:HA	1:S:460:GLY:O	2.20	0.41
1:S:193:ILE:CD1	1:S:250:ILE:HD13	2.51	0.41
1:S:335:ASP:O	1:S:338:ILE:HB	2.21	0.41
1:S:555:TYR:C	1:S:557:GLU:N	2.77	0.41
1:S:707:CYS:CA	1:S:714:ARG:NH2	2.76	0.41
1:S:744:SER:O	1:S:748:LEU:HD12	2.20	0.41
1:S:771:LEU:C	1:S:773:GLY:N	2.75	0.41
1:S:812:SER:O	1:S:816:ILE:HG13	2.21	0.41
2:T:149:ASP:CG	2:T:150:TYR:N	2.49	0.41
3:U:95:ASP:OD1	3:U:139:TYR:HE1	2.03	0.41
4:2:110:LEU:O	4:3:195:GLU:CG	2.69	0.41
4:2:290:ARG:NH2	4:4:202:THR:HG21	1.99	0.41
4:6:206:ARG:O	4:6:209:VAL:HG12	2.20	0.41
4:8:171:LEU:HA	4:8:172:PRO:HD2	1.84	0.41
4:V:144:ALA:HB2	4:V:342:GLY:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:32:PRO:HB2	4:Y:34:ILE:CD1	2.51	0.41
4:Z:205:GLU:O	4:Z:208:ILE:HG22	2.18	0.41
1:A:25:ILE:HG23	1:A:29:ASN:HD22	1.85	0.41
1:A:217:THR:CA	1:A:221:GLN:HE21	2.33	0.41
1:A:538:GLU:OE1	4:8:355:MET:HE1	2.17	0.41
1:A:771:LEU:C	1:A:773:GLY:N	2.75	0.41
1:A:842:LEU:N	1:A:842:LEU:CD1	2.83	0.41
2:B:140:PHE:HB3	2:B:144:VAL:HG11	2.03	0.41
1:D:62:VAL:HG12	1:D:63:MLY:N	2.35	0.41
1:D:536:LEU:HD12	1:D:536:LEU:HA	1.69	0.41
1:D:643:GLY:CA	4:9:24:ASP:OD1	2.62	0.41
1:D:690:LEU:O	1:D:694:GLN:HG3	2.20	0.41
1:G:217:THR:CA	1:G:221:GLN:HE21	2.34	0.41
1:G:528:MLY:HB2	1:G:529:PRO:HD2	2.03	0.41
1:G:739:ASP:OD1	1:G:739:ASP:C	2.58	0.41
1:G:797:PHE:CD2	1:G:798:LEU:HD12	2.55	0.41
1:G:834:LEU:HD12	2:H:51:PHE:CD1	2.54	0.41
3:I:56:GLU:OE1	3:I:59:ASN:ND2	2.54	0.41
1:J:106:LEU:HD12	1:J:106:LEU:HA	1.79	0.41
1:J:361:TYR:C	1:J:363:ASN:N	2.79	0.41
1:J:445:ILE:HG22	1:J:449:LEU:HD22	2.01	0.41
1:J:534:SER:HB2	4:W:354:GLN:HE22	1.56	0.41
1:J:657:LEU:HD12	1:J:657:LEU:O	2.21	0.41
1:J:661:MET:HE3	1:J:661:MET:HB3	1.74	0.41
1:J:754:ASP:CG	1:J:777:GLU:HA	2.45	0.41
1:M:14:ALA:HB3	1:M:15:PRO:CD	2.46	0.41
1:M:28:GLN:HB3	1:M:723:ARG:NH1	2.35	0.41
1:M:60:VAL:O	1:M:72:VAL:N	2.51	0.41
1:M:62:VAL:O	1:M:69:THR:HA	2.20	0.41
1:M:110:TYR:C	1:M:112:ALA:N	2.79	0.41
1:M:356:GLY:HA2	1:M:359:MET:HG3	2.02	0.41
1:M:635:GLY:C	4:Z:341:ILE:HG21	2.45	0.41
1:S:144:ARG:HH11	1:S:160:ASP:CG	2.28	0.41
1:S:741:LYS:HG2	1:S:742:LYS:N	2.35	0.41
1:S:798:LEU:HD13	3:U:126:LEU:CD1	2.32	0.41
1:S:802:GLU:OE2	1:S:809:ARG:NH2	2.54	0.41
1:S:821:ARG:NH1	2:T:127:ARG:NE	2.69	0.41
2:T:140:PHE:CD2	2:T:144:VAL:HG11	2.55	0.41
3:U:62:ALA:O	3:U:63:ILE:HG13	2.14	0.41
4:1:144:ALA:HB2	4:1:342:GLY:CA	2.51	0.41
4:1:226:GLU:HG3	4:1:255:PHE:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:144:ALA:HB2	4:2:342:GLY:CA	2.51	0.41
4:3:144:ALA:HB2	4:3:342:GLY:CA	2.51	0.41
4:3:221:LEU:HA	4:3:312:ARG:HG2	2.02	0.41
4:3:227:MET:O	4:3:230:ALA:HB3	2.21	0.41
4:4:227:MET:O	4:4:230:ALA:HB3	2.21	0.41
4:4:287:ILE:C	4:6:203:THR:HG22	2.41	0.41
4:5:222:ASP:OD1	4:5:224:GLU:HB3	2.19	0.41
4:5:227:MET:O	4:5:230:ALA:HB3	2.21	0.41
4:6:227:MET:O	4:6:230:ALA:HB3	2.21	0.41
4:8:144:ALA:HB2	4:8:342:GLY:CA	2.51	0.41
4:8:324:THR:N	4:V:245:GLY:CA	2.69	0.41
4:V:369:ILE:HG23	4:V:370:VAL:N	2.35	0.41
4:W:206:ARG:O	4:W:209:VAL:HG12	2.20	0.41
4:X:291:LYS:HD2	4:Z:243:PRO:HB2	1.93	0.41
4:Y:196:ARG:HH21	4:Y:249:THR:HG23	1.85	0.41
4:Y:226:GLU:HG3	4:Y:255:PHE:CE2	2.55	0.41
4:Z:144:ALA:HB2	4:Z:342:GLY:CA	2.51	0.41
4:Z:227:MET:O	4:Z:230:ALA:HB3	2.21	0.41
1:A:141:LEU:HD12	1:A:141:LEU:N	2.33	0.41
1:A:213:LYS:HA	1:A:220:ASP:OD2	2.19	0.41
1:A:369:MLY:HH22	1:A:369:MLY:HD3	1.79	0.41
1:A:541:MET:HG2	4:8:345:ILE:HG23	2.01	0.41
1:A:641:LYS:C	4:8:22:ALA:O	2.61	0.41
1:A:739:ASP:OD1	1:A:739:ASP:C	2.58	0.41
1:A:840:PRO:C	1:A:842:LEU:N	2.79	0.41
2:B:54:MET:O	2:H:21:GLU:HB2	2.21	0.41
2:B:144:VAL:HG12	2:B:153:ILE:HD11	1.75	0.41
2:B:150:TYR:HB3	2:B:151:LYS:HG3	2.03	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:166:MET:HE1	1:D:254:PHE:CB	2.46	0.41
1:D:322:VAL:HG12	1:D:325:ILE:HG13	2.03	0.41
1:D:445:ILE:HG22	1:D:449:LEU:HD22	2.02	0.41
2:E:163:ALA:O	2:K:21:GLU:HB3	2.20	0.41
3:F:56:GLU:OE1	3:F:59:ASN:ND2	2.54	0.41
1:G:322:VAL:HA	1:G:323:PRO:HD3	1.87	0.41
1:G:536:LEU:HD12	1:G:536:LEU:HA	1.69	0.41
1:G:636:LYS:C	1:G:637:LYS:HG3	2.44	0.41
1:G:637:LYS:HD2	4:V:144:ALA:HB3	1.20	0.41
1:J:60:VAL:O	1:J:72:VAL:N	2.51	0.41
1:J:132:LEU:C	1:J:134:VAL:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:322:VAL:HB	1:J:325:ILE:HD12	2.03	0.41
1:J:408:VAL:HA	1:J:636:LYS:HG2	1.14	0.41
1:J:449:LEU:N	1:J:449:LEU:CD1	2.81	0.41
1:J:555:TYR:C	1:J:557:GLU:N	2.77	0.41
1:J:655:GLU:CD	4:W:1:ASP:HB2	2.43	0.41
1:J:829:TRP:HH2	2:K:83:MET:HE3	1.77	0.41
2:K:113:LYS:O	2:K:147:ASN:HB2	2.20	0.41
1:M:193:ILE:CD1	1:M:250:ILE:HD13	2.51	0.41
1:M:568:PRO:CG	1:M:578:HIS:N	2.84	0.41
1:S:136:ASN:O	1:S:138:MLY:N	2.54	0.41
1:S:346:ASP:O	1:S:350:ALA:N	2.46	0.41
1:S:657:LEU:HD12	1:S:657:LEU:O	2.21	0.41
1:S:718:ALA:C	1:S:720:PHE:N	2.79	0.41
4:1:324:THR:CB	4:3:244:ASP:HA	2.51	0.41
4:2:47:MET:HE2	4:2:47:MET:HB2	1.79	0.41
4:2:369:ILE:HG23	4:2:370:VAL:N	2.35	0.41
4:4:32:PRO:HB2	4:4:34:ILE:CD1	2.51	0.41
4:5:32:PRO:HB2	4:5:34:ILE:CD1	2.51	0.41
4:7:227:MET:O	4:7:230:ALA:HB3	2.21	0.41
4:8:227:MET:O	4:8:230:ALA:HB3	2.21	0.41
4:9:221:LEU:HA	4:9:312:ARG:HG2	2.02	0.41
4:W:193:LEU:HD11	4:W:250:ILE:HG13	2.02	0.41
4:W:196:ARG:HH21	4:W:249:THR:HG23	1.85	0.41
4:W:221:LEU:HA	4:W:312:ARG:HG2	2.02	0.41
4:W:287:ILE:HG13	4:Y:202:THR:HG23	1.65	0.41
4:X:196:ARG:HH21	4:X:249:THR:HG23	1.85	0.41
4:X:227:MET:O	4:X:230:ALA:HB3	2.21	0.41
4:Z:32:PRO:HB2	4:Z:34:ILE:CD1	2.51	0.41
4:Z:299:MET:HE2	4:Z:299:MET:HB2	1.82	0.41
1:A:72:VAL:O	1:A:73:LYS:O	2.39	0.41
1:A:174:SER:HA	1:A:460:GLY:O	2.20	0.41
1:A:356:GLY:HA2	1:A:359:MET:HG3	2.02	0.41
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	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:718:ALA:C	1:A:720:PHE:N	2.79	0.41
1:A:741:LYS:HG2	1:A:742:LYS:N	2.35	0.41
1:D:136:ASN:O	1:D:138:MLY:N	2.54	0.41
1:D:193:ILE:HD11	1:D:250:ILE:HD12	2.03	0.41
1:D:193:ILE:CD1	1:D:250:ILE:HD13	2.51	0.41
1:D:195:TYR:CE2	1:D:199:ILE:HD13	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:309:PRO:C	1:D:311:ASP:N	2.79	0.41
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.41
1:D:530:MET:CE	4:9:354:GLN:HG3	2.35	0.41
1:D:533:PHE:O	1:D:537:GLU:N	2.49	0.41
1:D:541:MET:CG	4:9:345:ILE:C	2.87	0.41
1:D:556:ASP:OD1	4:W:50:LYS:CG	2.69	0.41
1:D:610:LEU:N	1:D:610:LEU:CD1	2.84	0.41
1:D:661:MET:HE3	1:D:661:MET:HB3	1.75	0.41
1:D:673:ARG:HA	1:D:673:ARG:HD2	1.79	0.41
1:D:744:SER:O	1:D:748:LEU:HD12	2.20	0.41
1:D:762:HIS:CD2	1:D:762:HIS:N	2.79	0.41
1:D:840:PRO:C	1:D:842:LEU:N	2.78	0.41
1:D:842:LEU:N	1:D:842:LEU:CD1	2.83	0.41
1:G:17:LEU:HA	1:G:17:LEU:HD12	1.67	0.41
1:G:135:TYR:HD2	1:G:191:ARG:CG	2.33	0.41
1:G:356:GLY:HA2	1:G:359:MET:HG3	2.02	0.41
1:G:384:ASP:HA	1:G:394:SER:OG	2.21	0.41
1:G:410:ASN:HA	4:V:334:GLU:HB3	1.29	0.41
1:G:449:LEU:N	1:G:449:LEU:CD1	2.82	0.41
1:G:502:GLU:C	1:G:504:MLY:N	2.77	0.41
1:G:506:GLU:OE2	1:G:760:PHE:C	2.64	0.41
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	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:717:TYR:OH	1:G:760:PHE:HB3	2.21	0.41
1:G:831:TRP:CZ3	2:H:34:ILE:HD13	2.56	0.41
2:H:150:TYR:HB3	2:H:151:LYS:HG3	2.03	0.41
1:J:25:ILE:HG23	1:J:29:ASN:HD22	1.85	0.41
1:J:48:VAL:CG2	1:J:49:MLY:N	2.84	0.41
1:J:136:ASN:O	1:J:138:MLY:N	2.54	0.41
1:J:289:TYR:OH	1:J:315:VAL:O	2.27	0.41
1:J:322:VAL:HG12	1:J:325:ILE:HG13	2.03	0.41
1:J:493:HIS:O	1:J:496:PHE:N	2.54	0.41
1:J:556:ASP:OD1	4:Y:47:MET:CE	2.27	0.41
1:J:692:LEU:HD23	1:J:692:LEU:HA	1.85	0.41
1:J:753:VAL:O	1:J:755:HIS:ND1	2.54	0.41
1:J:757:GLN:N	1:J:776:GLU:CB	2.82	0.41
1:J:775:LEU:HA	1:J:775:LEU:HD12	1.71	0.41
1:M:129:TYR:HD1	1:M:129:TYR:HA	1.65	0.41
1:M:193:ILE:HD11	1:M:250:ILE:HD12	2.03	0.41
1:M:195:TYR:CE2	1:M:199:ILE:HD13	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:217:THR:CA	1:M:221:GLN:HE21	2.33	0.41
1:M:223:ILE:C	1:M:225:ALA:N	2.76	0.41
1:M:303:LEU:O	1:M:304:LEU:HB2	2.21	0.41
1:M:493:HIS:O	1:M:496:PHE:N	2.54	0.41
1:M:530:MET:CE	4:Z:354:GLN:HG3	2.35	0.41
1:M:724:TYR:HB3	1:M:727:LEU:CD1	2.48	0.41
1:M:771:LEU:C	1:M:773:GLY:N	2.75	0.41
1:M:797:PHE:CD2	1:M:798:LEU:HD12	2.55	0.41
1:M:817:GLN:HG3	2:N:128:PHE:HE1	1.80	0.41
1:M:840:PRO:C	1:M:842:LEU:N	2.79	0.41
1:M:842:LEU:N	1:M:842:LEU:CD1	2.83	0.41
3:O:95:ASP:OD1	3:O:139:TYR:HE1	2.03	0.41
1:S:193:ILE:HD11	1:S:250:ILE:HD12	2.03	0.41
1:S:303:LEU:O	1:S:304:LEU:HB2	2.21	0.41
1:S:502:GLU:C	1:S:504:MLY:N	2.78	0.41
1:S:637:LYS:HD2	4:2:144:ALA:HB3	1.20	0.41
1:S:797:PHE:CD1	3:U:146:ILE:HG23	2.56	0.41
2:T:112:ILE:O	2:T:148:VAL:N	2.50	0.41
4:3:32:PRO:HB2	4:3:34:ILE:CD1	2.51	0.41
4:4:144:ALA:HB2	4:4:342:GLY:CA	2.51	0.41
4:5:144:ALA:HB2	4:5:342:GLY:CA	2.51	0.41
4:6:144:ALA:HB2	4:6:342:GLY:CA	2.51	0.41
4:6:221:LEU:HA	4:6:312:ARG:HG2	2.02	0.41
4:6:369:ILE:HG23	4:6:370:VAL:N	2.35	0.41
4:7:32:PRO:HB2	4:7:34:ILE:CD1	2.51	0.41
4:7:221:LEU:HA	4:7:312:ARG:HG2	2.02	0.41
4:7:288:ASP:OD1	4:9:204:ALA:HA	2.21	0.41
4:8:369:ILE:HG23	4:8:370:VAL:N	2.35	0.41
4:9:32:PRO:HB2	4:9:34:ILE:CD1	2.51	0.41
4:9:287:ILE:N	4:W:202:THR:CG2	2.77	0.41
4:V:226:GLU:HG3	4:V:255:PHE:CE2	2.56	0.41
4:W:32:PRO:HB2	4:W:34:ILE:CD1	2.51	0.41
4:W:227:MET:O	4:W:230:ALA:HB3	2.21	0.41
4:X:144:ALA:HB2	4:X:342:GLY:CA	2.51	0.41
4:Z:369:ILE:HG23	4:Z:370:VAL:N	2.35	0.41
1:A:303:LEU:O	1:A:304:LEU:HB2	2.21	0.41
1:A:831:TRP:HZ2	2:B:47:LEU:C	2.27	0.41
2:B:63:GLU:O	2:B:67:MET:HG3	2.21	0.41
2:B:111:SER:OG	2:B:148:VAL:CA	2.69	0.41
1:D:724:TYR:CB	1:D:782:MLY:NZ	2.79	0.41
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:303:LEU:O	1:G:304:LEU:HB2	2.21	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG23	2.02	0.41
1:G:642:LYS:HB2	4:V:24:ASP:O	1.89	0.41
1:J:193:ILE:CD1	1:J:250:ILE:HD13	2.51	0.41
1:J:204:GLU:N	1:J:207:LYS:HE3	2.23	0.41
1:J:356:GLY:HA2	1:J:359:MET:HG3	2.02	0.41
1:J:536:LEU:HD12	1:J:536:LEU:HA	1.69	0.41
1:J:553:MLY:HA	4:Y:45:VAL:O	2.20	0.41
1:J:642:LYS:HE2	4:W:344:SER:HA	1.56	0.41
1:M:25:ILE:HG23	1:M:29:ASN:HD22	1.85	0.41
1:M:144:ARG:HH11	1:M:160:ASP:CG	2.28	0.41
1:M:172:ASN:OD1	1:M:457:TYR:HA	2.21	0.41
1:M:221:GLN:HG2	1:M:221:GLN:H	1.47	0.41
1:M:724:TYR:CE2	1:M:772:LEU:CD2	3.02	0.41
1:M:726:VAL:HG13	3:O:89:GLU:OE1	2.21	0.41
1:M:805:ALA:O	1:M:807:VAL:N	2.44	0.41
1:M:812:SER:O	1:M:816:ILE:HG13	2.21	0.41
1:M:836:PHE:CD2	2:N:160:GLY:HA3	2.55	0.41
1:S:60:VAL:O	1:S:72:VAL:N	2.51	0.41
1:S:72:VAL:O	1:S:73:LYS:O	2.39	0.41
1:S:296:MLY:HH11	1:S:348:MLY:CH2	2.48	0.41
1:S:753:VAL:O	1:S:755:HIS:ND1	2.54	0.41
1:S:821:ARG:CZ	2:T:127:ARG:NE	2.84	0.41
3:U:56:GLU:OE1	3:U:59:ASN:ND2	2.54	0.41
4:1:32:PRO:HB2	4:1:34:ILE:CD1	2.51	0.41
4:2:32:PRO:HB2	4:2:34:ILE:CD1	2.51	0.41
4:3:287:ILE:HB	4:5:203:THR:CB	2.45	0.41
4:8:32:PRO:HB2	4:8:34:ILE:CD1	2.51	0.41
4:9:226:GLU:HG3	4:9:255:PHE:CE2	2.55	0.41
4:9:369:ILE:HG23	4:9:370:VAL:N	2.35	0.41
4:V:219:VAL:HG22	4:V:258:PRO:CB	2.51	0.41
4:X:219:VAL:HG22	4:X:258:PRO:CB	2.51	0.41
4:Z:196:ARG:HH21	4:Z:249:THR:HG23	1.85	0.41
1:A:296:MLY:HH11	1:A:348:MLY:CH2	2.48	0.40
1:A:407:GLY:HA2	1:A:411:GLU:O	2.21	0.40
1:A:556:ASP:OD1	4:V:50:LYS:CG	2.69	0.40
2:B:112:ILE:O	2:B:148:VAL:N	2.50	0.40
2:B:139:ALA:O	2:B:141:PRO:CD	2.51	0.40
3:C:95:ASP:OD1	3:C:139:TYR:HE1	2.04	0.40
1:D:201:ALA:O	1:D:202:SER:OG	2.36	0.40
2:E:150:TYR:HB3	2:E:151:LYS:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:193:ILE:CD1	1:G:250:ILE:HD13	2.51	0.40
1:G:493:HIS:O	1:G:496:PHE:N	2.54	0.40
1:G:707:CYS:CB	1:G:714:ARG:NH2	2.84	0.40
1:J:135:TYR:HD2	1:J:191:ARG:CG	2.33	0.40
1:J:659:MLY:HH22	1:J:659:MLY:HD2	1.42	0.40
1:J:717:TYR:OH	1:J:760:PHE:HB3	2.21	0.40
1:M:485:GLU:OE1	1:M:583:HIS:HB3	2.21	0.40
1:M:496:PHE:CG	1:M:514:ASP:HA	2.57	0.40
1:M:502:GLU:C	1:M:504:MLY:N	2.77	0.40
1:M:720:PHE:CE1	1:M:772:LEU:CD1	3.04	0.40
1:M:753:VAL:O	1:M:755:HIS:ND1	2.54	0.40
2:N:111:SER:OG	2:N:148:VAL:CA	2.69	0.40
1:S:172:ASN:OD1	1:S:457:TYR:HA	2.21	0.40
1:S:309:PRO:C	1:S:311:ASP:N	2.79	0.40
1:S:485:GLU:OE1	1:S:583:HIS:HB3	2.21	0.40
1:S:496:PHE:CG	1:S:514:ASP:HA	2.57	0.40
1:S:668:HIS:CD2	1:S:668:HIS:C	2.99	0.40
1:S:724:TYR:HB3	1:S:727:LEU:CD1	2.49	0.40
1:S:792:ALA:CB	3:U:42:THR:CB	2.53	0.40
1:S:840:PRO:C	1:S:842:LEU:N	2.79	0.40
2:T:149:ASP:OD2	2:T:150:TYR:CA	2.65	0.40
2:T:150:TYR:HB3	2:T:151:LYS:HG3	2.03	0.40
4:1:315:LYS:HD2	4:1:315:LYS:HA	1.92	0.40
4:2:219:VAL:HG22	4:2:258:PRO:CB	2.52	0.40
4:2:287:ILE:H	4:2:287:ILE:CD1	2.31	0.40
4:4:196:ARG:HH21	4:4:249:THR:HG23	1.85	0.40
4:5:287:ILE:H	4:5:287:ILE:CD1	2.31	0.40
4:7:226:GLU:HG3	4:7:255:PHE:CE2	2.56	0.40
4:8:219:VAL:HG22	4:8:258:PRO:CB	2.51	0.40
4:W:369:ILE:HG23	4:W:370:VAL:N	2.35	0.40
4:Y:144:ALA:HB2	4:Y:342:GLY:CA	2.51	0.40
1:A:471:ASP:CB	1:A:573:GLY:O	2.68	0.40
1:A:528:MLY:HB2	1:A:529:PRO:HD2	2.03	0.40
1:A:555:TYR:C	1:A:557:GLU:N	2.78	0.40
1:A:568:PRO:CG	1:A:578:HIS:N	2.84	0.40
1:A:838:ILE:HD13	2:B:54:MET:HE1	2.03	0.40
1:D:17:LEU:HD12	1:D:17:LEU:HA	1.67	0.40
1:D:47:PHE:HE1	1:D:78:PHE:CE1	2.39	0.40
1:D:89:GLU:HB3	1:D:153:PRO:HG3	2.03	0.40
1:D:144:ARG:HH11	1:D:160:ASP:CG	2.28	0.40
1:D:172:ASN:OD1	1:D:457:TYR:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:466:GLY:CA	1:D:484:ASN:HD21	2.32	0.40
1:D:485:GLU:OE1	1:D:583:HIS:HB3	2.21	0.40
1:D:641:LYS:C	4:9:22:ALA:O	2.61	0.40
1:D:712:PRO:CB	1:D:771:LEU:CD2	2.88	0.40
1:D:747:LEU:CD2	1:D:782:MLY:HH21	2.47	0.40
1:G:110:TYR:C	1:G:112:ALA:N	2.79	0.40
1:G:110:TYR:O	1:G:113:TRP:N	2.42	0.40
1:G:172:ASN:OD1	1:G:457:TYR:HA	2.22	0.40
1:G:174:SER:HA	1:G:460:GLY:O	2.20	0.40
1:G:193:ILE:HD13	1:G:252:ILE:HD11	2.04	0.40
1:G:791:GLN:HE22	3:I:115:GLY:HA3	0.45	0.40
1:G:813:ILE:HG21	2:H:128:PHE:CE1	2.51	0.40
2:H:139:ALA:O	2:H:141:PRO:CD	2.51	0.40
1:J:237:THR:CG2	1:J:238:VAL:N	2.84	0.40
1:M:136:ASN:HA	1:M:137:PRO:HD3	1.50	0.40
1:M:485:GLU:OE2	1:M:584:TYR:N	2.50	0.40
1:M:554:LEU:N	4:2:46:GLY:O	2.52	0.40
1:S:320:ILE:O	1:S:320:ILE:CG2	2.68	0.40
1:S:330:GLU:HA	1:S:330:GLU:OE1	2.21	0.40
1:S:530:MET:HE3	4:2:354:GLN:HG2	1.90	0.40
1:S:541:MET:HG2	4:2:345:ILE:HG23	2.02	0.40
1:S:821:ARG:NH1	2:T:127:ARG:CZ	2.84	0.40
4:1:227:MET:O	4:1:230:ALA:HB3	2.21	0.40
4:2:221:LEU:HA	4:2:312:ARG:HG2	2.02	0.40
4:2:250:ILE:HG22	4:2:254:ARG:HB2	2.04	0.40
4:3:287:ILE:HG22	4:5:204:ALA:HB3	2.03	0.40
4:3:299:MET:HE2	4:3:299:MET:HB2	1.82	0.40
4:8:288:ASP:OD1	4:V:204:ALA:HA	2.21	0.40
4:9:288:ASP:OD1	4:W:204:ALA:HA	2.20	0.40
4:V:256:ARG:HH11	4:V:256:ARG:HD2	1.78	0.40
4:W:226:GLU:HG3	4:W:255:PHE:CE2	2.55	0.40
3:C:62:ALA:O	3:C:63:ILE:HG13	2.13	0.40
3:C:96:LYS:H	3:C:96:LYS:HG3	1.66	0.40
1:D:110:TYR:C	1:D:112:ALA:N	2.79	0.40
1:D:213:LYS:HA	1:D:220:ASP:OD2	2.19	0.40
1:D:493:HIS:O	1:D:496:PHE:N	2.54	0.40
1:D:659:MLY:HH22	1:D:659:MLY:HD2	1.42	0.40
1:D:840:PRO:C	1:D:842:LEU:H	2.29	0.40
2:E:163:ALA:C	2:K:22:THR:OG1	2.64	0.40
1:G:271:GLU:OE1	1:G:274:ARG:NH1	2.53	0.40
1:G:330:GLU:OE1	1:G:330:GLU:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:MLY:HA	4:X:45:VAL:O	2.21	0.40
1:G:840:PRO:C	1:G:842:LEU:N	2.79	0.40
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.40
1:J:410:ASN:HA	4:W:334:GLU:HB3	1.28	0.40
1:J:818:TYR:N	2:K:127:ARG:HH11	2.20	0.40
1:M:94:MET:HE1	1:M:101:ALA:CB	2.51	0.40
1:M:135:TYR:HD2	1:M:191:ARG:CG	2.33	0.40
1:M:271:GLU:OE1	1:M:274:ARG:NH1	2.53	0.40
1:M:580:SER:O	1:M:581:LEU:HD12	2.22	0.40
1:M:610:LEU:N	1:M:610:LEU:CD1	2.84	0.40
1:M:690:LEU:O	1:M:694:GLN:HG3	2.20	0.40
1:M:717:TYR:OH	1:M:760:PHE:HB3	2.21	0.40
2:N:144:VAL:HG12	2:N:153:ILE:HD13	1.92	0.40
1:S:135:TYR:CD2	1:S:191:ARG:HD3	2.55	0.40
1:S:322:VAL:HB	1:S:325:ILE:HD12	2.02	0.40
1:S:610:LEU:N	1:S:610:LEU:CD1	2.84	0.40
2:T:144:VAL:HG12	2:T:153:ILE:HD13	1.92	0.40
4:2:204:ALA:HA	4:Z:288:ASP:OD1	2.21	0.40
4:3:226:GLU:HG3	4:3:255:PHE:CE2	2.55	0.40
4:4:288:ASP:CA	4:6:203:THR:CG2	3.00	0.40
4:5:219:VAL:HG22	4:5:258:PRO:CB	2.52	0.40
4:7:219:VAL:HG22	4:7:258:PRO:CB	2.52	0.40
4:9:120:THR:HG21	4:9:370:VAL:CG1	2.52	0.40
4:V:32:PRO:HB2	4:V:34:ILE:CD1	2.51	0.40
4:X:221:LEU:HA	4:X:312:ARG:HG2	2.02	0.40
4:X:256:ARG:HH11	4:X:256:ARG:HD2	1.78	0.40
4:Z:219:VAL:HG22	4:Z:258:PRO:CB	2.51	0.40
1:A:28:GLN:NE2	1:A:723:ARG:NH2	2.47	0.40
1:A:172:ASN:OD1	1:A:457:TYR:HA	2.21	0.40
1:A:657:LEU:HD12	1:A:657:LEU:O	2.21	0.40
1:A:809:ARG:CZ	2:B:124:GLY:HA3	2.51	0.40
3:C:56:GLU:OE1	3:C:59:ASN:ND2	2.54	0.40
1:D:237:THR:CG2	1:D:238:VAL:N	2.85	0.40
1:D:348:MLY:HH12	1:D:348:MLY:HD2	1.82	0.40
3:F:95:ASP:OD1	3:F:139:TYR:HE1	2.04	0.40
1:G:72:VAL:O	1:G:73:LYS:O	2.39	0.40
1:G:94:MET:HE1	1:G:101:ALA:CB	2.50	0.40
1:G:224:SER:C	1:G:227:PRO:HD2	2.47	0.40
1:G:305:ILE:HG22	1:G:312:TYR:OH	2.22	0.40
1:G:812:SER:O	1:G:816:ILE:HG13	2.21	0.40
1:J:172:ASN:OD1	1:J:457:TYR:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:224:SER:C	1:J:227:PRO:HD2	2.47	0.40
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.40
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.03	0.40
1:M:174:SER:HA	1:M:460:GLY:O	2.20	0.40
1:M:305:ILE:HG22	1:M:312:TYR:OH	2.21	0.40
1:M:408:VAL:HA	1:M:636:LYS:HG2	1.14	0.40
1:M:530:MET:CB	4:Z:354:GLN:CB	2.95	0.40
1:M:544:LYS:N	4:Z:146:GLY:O	2.55	0.40
1:M:641:LYS:CE	1:M:647:GLN:CB	2.75	0.40
1:S:93:MET:HA	1:S:714:ARG:CA	2.52	0.40
1:S:407:GLY:HA2	1:S:411:GLU:O	2.21	0.40
1:S:692:LEU:HA	1:S:692:LEU:HD23	1.85	0.40
1:S:783:LEU:O	1:S:786:ILE:CB	2.70	0.40
1:S:819:ASN:CG	2:T:92:ASP:N	2.66	0.40
2:T:140:PHE:HB3	2:T:144:VAL:HG11	2.03	0.40
4:2:256:ARG:HH11	4:2:256:ARG:HD2	1.78	0.40
4:4:287:ILE:CD1	4:4:287:ILE:H	2.31	0.40
4:4:287:ILE:HG22	4:6:204:ALA:HB3	2.03	0.40
4:7:171:LEU:HA	4:7:172:PRO:HD2	1.84	0.40
4:7:287:ILE:N	4:9:202:THR:CG2	2.77	0.40
4:8:287:ILE:H	4:8:287:ILE:CD1	2.31	0.40
4:9:227:MET:O	4:9:230:ALA:HB3	2.21	0.40
4:9:324:THR:N	4:W:245:GLY:CA	2.69	0.40
4:Y:219:VAL:HG22	4:Y:258:PRO:CB	2.51	0.40
4:Z:120:THR:HG21	4:Z:370:VAL:CG1	2.52	0.40
1:A:149:GLN:CD	1:A:716:LEU:CD2	2.61	0.40
1:A:215:GLN:H	1:A:340:ILE:CD1	2.21	0.40
1:A:271:GLU:OE1	1:A:274:ARG:NH1	2.53	0.40
1:A:305:ILE:HG22	1:A:312:TYR:OH	2.22	0.40
1:A:633:GLY:HA2	4:8:25:ASP:HA	1.25	0.40
1:A:812:SER:O	1:A:816:ILE:HG13	2.21	0.40
1:A:818:TYR:HB3	2:B:90:GLY:N	2.35	0.40
1:D:94:MET:HE1	1:D:101:ALA:CB	2.50	0.40
1:D:261:ALA:O	1:D:451:THR:OG1	2.40	0.40
1:D:296:MLY:HH11	1:D:348:MLY:CH2	2.48	0.40
1:D:303:LEU:O	1:D:389:LEU:HD21	2.22	0.40
1:D:384:ASP:HA	1:D:394:SER:OG	2.21	0.40
1:D:400:ALA:CB	1:D:606:THR:CG2	3.00	0.40
1:D:407:GLY:HA2	1:D:411:GLU:O	2.21	0.40
1:D:519:LEU:HD12	1:D:519:LEU:H	1.83	0.40
2:E:48:ARG:HH11	2:E:48:ARG:HD2	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:25:ILE:O	3:F:63:ILE:CB	2.66	0.40
1:G:295:MLY:CG	1:G:332:MET:CE	2.97	0.40
1:G:541:MET:HG2	4:V:345:ILE:HG22	2.01	0.40
1:G:642:LYS:HE2	4:V:344:SER:HA	1.56	0.40
1:J:64:THR:OG1	1:J:68:GLU:HB3	2.22	0.40
1:J:279:LEU:CB	1:J:280:PRO:HD2	2.49	0.40
1:J:303:LEU:O	1:J:304:LEU:HB2	2.21	0.40
1:J:610:LEU:N	1:J:610:LEU:CD1	2.84	0.40
1:J:641:LYS:C	4:W:22:ALA:O	2.60	0.40
1:M:64:THR:OG1	1:M:68:GLU:HB3	2.22	0.40
1:M:322:VAL:HB	1:M:325:ILE:CG1	2.52	0.40
1:M:506:GLU:OE2	1:M:762:HIS:N	2.54	0.40
1:M:657:LEU:HD12	1:M:657:LEU:O	2.21	0.40
1:M:668:HIS:CD2	1:M:668:HIS:C	2.99	0.40
1:M:795:ARG:HH12	3:O:43:ASN:HB2	0.55	0.40
1:M:810:ARG:HG2	1:M:810:ARG:NH1	2.29	0.40
1:S:64:THR:OG1	1:S:68:GLU:HB3	2.22	0.40
1:S:94:MET:HE1	1:S:101:ALA:CB	2.51	0.40
1:S:110:TYR:C	1:S:112:ALA:N	2.79	0.40
1:S:493:HIS:O	1:S:496:PHE:N	2.54	0.40
2:T:111:SER:OG	2:T:148:VAL:CA	2.69	0.40
4:2:166:TYR:OH	4:4:64:ILE:CD1	2.62	0.40
4:2:227:MET:O	4:2:230:ALA:HB3	2.21	0.40
4:3:324:THR:CA	4:5:244:ASP:HA	2.49	0.40
4:4:219:VAL:HG22	4:4:258:PRO:CB	2.52	0.40
4:W:250:ILE:HG22	4:W:254:ARG:HB2	2.04	0.40
4:X:32:PRO:HB2	4:X:34:ILE:CD1	2.51	0.40
4:Y:227:MET:O	4:Y: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	787/840 (94%)	649 (82%)	112 (14%)	26 (3%)	3	21
1	S	785/840 (94%)	648 (82%)	110 (14%)	27 (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	T	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	1	14
3	C	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
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	U	143/147 (97%)	133 (93%)	10 (7%)	0	100	100
4	1	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	2	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	3	370/375 (99%)	333 (90%)	31 (8%)	6 (2%)	7	38
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	5	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	6	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	7	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	8	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	9	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	V	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	W	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	7	38
4	X	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	Y	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38
4	Z	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	7	38

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	11628/12042 (97%)	10139 (87%)	1198 (10%)	291 (2%)	6	26

All (291) 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
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

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Mol	Chain	Res	Type
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	S	73	LYS
1	S	202	SER
1	S	572	LYS
1	S	712	PRO
1	S	729	ALA
1	S	757	GLN
1	S	762	HIS
2	T	131	GLU
2	T	141	PRO
4	1	246	GLN
4	2	246	GLN
4	3	246	GLN
4	4	246	GLN
4	5	246	GLN
4	6	246	GLN
4	7	246	GLN
4	8	246	GLN
4	9	246	GLN
4	V	246	GLN
4	W	246	GLN
4	X	246	GLN
4	Y	246	GLN
4	Z	246	GLN
1	A	11	GLY
1	A	21	GLU
1	A	219	GLU
1	A	517	MET
1	A	637	LYS
2	B	130	PRO
2	B	147	ASN
2	B	151	LYS
2	B	161	GLU
1	D	11	GLY

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Mol	Chain	Res	Type
1	D	21	GLU
1	D	219	GLU
1	D	517	MET
1	D	637	LYS
2	E	130	PRO
2	E	147	ASN
2	E	151	LYS
1	G	11	GLY
1	G	21	GLU
1	G	219	GLU
1	G	517	MET
1	G	532	ILE
1	G	637	LYS
1	G	785	GLU
2	H	130	PRO
2	H	147	ASN
2	H	151	LYS
1	J	11	GLY
1	J	21	GLU
1	J	219	GLU
1	J	517	MET
1	J	637	LYS
2	K	130	PRO
2	K	147	ASN
2	K	151	LYS
2	K	161	GLU
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
1	S	11	GLY
1	S	21	GLU
1	S	219	GLU
1	S	517	MET
1	S	637	LYS
2	T	130	PRO
2	T	147	ASN
2	T	151	LYS

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

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Mol	Chain	Res	Type
4	2	233	SER
4	3	233	SER
4	4	233	SER
4	5	233	SER
4	6	233	SER
4	7	233	SER
4	8	233	SER
4	9	233	SER
4	V	233	SER
4	W	233	SER
4	X	233	SER
4	Y	233	SER
4	Z	233	SER
1	A	435	GLU
1	A	817	GLN
1	D	269	LEU
1	D	435	GLU
1	D	817	GLN
1	G	269	LEU
1	G	435	GLU
1	G	817	GLN
1	J	269	LEU
1	J	435	GLU
1	J	817	GLN
1	M	269	LEU
1	M	435	GLU
1	M	817	GLN
1	S	269	LEU
1	S	435	GLU
1	S	769	ALA
1	S	817	GLN
4	1	2	GLU
4	2	2	GLU
4	3	2	GLU
4	4	2	GLU
4	4	253	GLU
4	5	2	GLU
4	5	253	GLU
4	6	2	GLU
4	6	253	GLU
4	7	2	GLU
4	7	253	GLU

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Mol	Chain	Res	Type
4	8	2	GLU
4	9	2	GLU
4	9	253	GLU
4	V	2	GLU
4	V	253	GLU
4	W	2	GLU
4	W	253	GLU
4	X	2	GLU
4	Y	2	GLU
4	Z	2	GLU
4	Z	253	GLU
1	A	8	ALA
1	A	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
2	H	140	PHE
1	J	8	ALA
1	J	578	HIS
2	K	140	PHE
1	M	8	ALA
1	M	578	HIS
2	N	140	PHE
1	S	8	ALA
1	S	578	HIS
2	T	140	PHE
4	1	253	GLU
4	2	253	GLU
4	3	253	GLU
4	8	253	GLU
4	X	253	GLU
4	Y	253	GLU
1	A	79	SER
1	A	199	ILE
1	A	556	ASP
2	B	142	PRO

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Mol	Chain	Res	Type
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
1	M	556	ASP
2	N	142	PRO
1	S	79	SER
1	S	199	ILE
1	S	556	ASP
2	T	142	PRO
1	A	840	PRO
1	D	287	ILE
1	D	840	PRO
1	G	840	PRO
1	J	840	PRO
1	M	840	PRO
1	S	840	PRO
4	1	242	LEU
4	2	242	LEU
4	3	242	LEU
4	4	242	LEU
4	5	242	LEU
4	6	242	LEU
4	7	242	LEU
4	8	242	LEU
4	9	242	LEU
4	V	242	LEU
4	W	242	LEU
4	X	242	LEU
4	Y	242	LEU
4	Z	242	LEU
1	A	287	ILE
1	G	287	ILE
1	J	287	ILE

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Mol	Chain	Res	Type
1	M	287	ILE
1	S	287	ILE

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	672/672 (100%)	491 (73%)	181 (27%)	0	3
1	D	672/672 (100%)	491 (73%)	181 (27%)	0	3
1	G	672/672 (100%)	492 (73%)	180 (27%)	0	3
1	J	672/672 (100%)	491 (73%)	181 (27%)	0	3
1	M	672/672 (100%)	491 (73%)	181 (27%)	0	3
1	S	672/672 (100%)	491 (73%)	181 (27%)	0	3
2	B	120/120 (100%)	119 (99%)	1 (1%)	73	80
2	E	120/120 (100%)	119 (99%)	1 (1%)	73	80
2	H	120/120 (100%)	120 (100%)	0	100	100
2	K	120/120 (100%)	120 (100%)	0	100	100
2	N	120/120 (100%)	120 (100%)	0	100	100
2	T	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	U	117/117 (100%)	113 (97%)	4 (3%)	32	54
4	1	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	2	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	3	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	4	315/318 (99%)	264 (84%)	51 (16%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	5	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	6	315/318 (99%)	265 (84%)	50 (16%)	2	11
4	7	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	8	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	9	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	V	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	W	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	X	315/318 (99%)	265 (84%)	50 (16%)	2	11
4	Y	315/318 (99%)	264 (84%)	51 (16%)	2	11
4	Z	315/318 (99%)	264 (84%)	51 (16%)	2	11
All	All	9864/9906 (100%)	8041 (82%)	1823 (18%)	3	8

All (1823) 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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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
2	B	129	THR
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

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Mol	Chain	Res	Type
1	D	23	GLU
1	D	25	ILE
1	D	36	SER
1	D	37	SER
1	D	38	VAL
1	D	40	VAL
1	D	41	VAL
1	D	46	SER
1	D	52	ILE
1	D	61	THR
1	D	65	GLU
1	D	69	THR
1	D	70	LEU
1	D	72	VAL
1	D	73	LYS
1	D	75	ASP
1	D	76	GLN
1	D	88	ILE
1	D	97	LEU
1	D	106	LEU
1	D	109	ARG
1	D	114	MET
1	D	117	THR
1	D	121	LEU
1	D	125	THR
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

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Mol	Chain	Res	Type
1	D	185	LYS
1	D	186	THR
1	D	187	VAL
1	D	189	THR
1	D	191	ARG
1	D	193	ILE
1	D	194	GLN
1	D	198	THR
1	D	199	ILE
1	D	218	LEU
1	D	219	GLU
1	D	221	GLN
1	D	223	ILE
1	D	229	LEU
1	D	244	SER
1	D	245	ARG
1	D	251	ARG
1	D	273	SER
1	D	274	ARG
1	D	278	GLN
1	D	282	GLU
1	D	287	ILE
1	D	290	GLN
1	D	291	ILE
1	D	294	ASN
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

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Mol	Chain	Res	Type
1	D	381	GLU
1	D	389	LEU
1	D	392	LEU
1	D	394	SER
1	D	399	LYS
1	D	401	LEU
1	D	405	ARG
1	D	410	ASN
1	D	411	GLU
1	D	439	LEU
1	D	448	GLN
1	D	449	LEU
1	D	452	LYS
1	D	453	GLN
1	D	455	ARG
1	D	456	GLN
1	D	457	TYR
1	D	462	LEU
1	D	471	ASP
1	D	480	ILE
1	D	487	LEU
1	D	495	MET
1	D	498	LEU
1	D	506	GLU
1	D	513	ILE
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

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Mol	Chain	Res	Type
1	D	621	LEU
1	D	625	THR
1	D	664	LEU
1	D	666	SER
1	D	673	ARG
1	D	675	ILE
1	D	676	ILE
1	D	686	MET
1	D	689	GLU
1	D	690	LEU
1	D	693	HIS
1	D	698	ASN
1	D	700	VAL
1	D	701	LEU
1	D	702	GLU
1	D	704	ILE
1	D	705	ARG
1	D	707	CYS
1	D	708	ARG
1	D	713	SER
1	D	714	ARG
1	D	716	LEU
1	D	722	GLN
1	D	723	ARG
1	D	727	LEU
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

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Mol	Chain	Res	Type
1	D	816	ILE
1	D	819	ASN
1	D	822	SER
1	D	832	MET
1	D	834	LEU
1	D	838	ILE
1	D	842	LEU
1	D	843	LYS
2	E	129	THR
3	F	48	LYS
3	F	83	THR
3	F	85	GLU
3	F	96	LYS
1	G	7	MET
1	G	12	GLU
1	G	17	LEU
1	G	20	SER
1	G	22	LYS
1	G	23	GLU
1	G	25	ILE
1	G	36	SER
1	G	37	SER
1	G	38	VAL
1	G	40	VAL
1	G	41	VAL
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

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Mol	Chain	Res	Type
1	G	125	THR
1	G	126	VAL
1	G	127	ASN
1	G	136	ASN
1	G	146	LYS
1	G	149	GLN
1	G	155	ILE
1	G	157	SER
1	G	158	ILE
1	G	159	SER
1	G	166	MET
1	G	167	LEU
1	G	169	ASP
1	G	170	ARG
1	G	173	GLN
1	G	175	ILE
1	G	178	THR
1	G	180	GLU
1	G	185	LYS
1	G	186	THR
1	G	187	VAL
1	G	189	THR
1	G	191	ARG
1	G	193	ILE
1	G	194	GLN
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

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Mol	Chain	Res	Type
1	G	294	ASN
1	G	298	GLU
1	G	300	ILE
1	G	302	MET
1	G	303	LEU
1	G	305	ILE
1	G	315	VAL
1	G	325	ILE
1	G	331	LEU
1	G	332	MET
1	G	336	SER
1	G	351	ILE
1	G	354	LEU
1	G	359	MET
1	G	364	LEU
1	G	365	LYS
1	G	372	GLU
1	G	376	GLU
1	G	381	GLU
1	G	389	LEU
1	G	392	LEU
1	G	394	SER
1	G	399	LYS
1	G	401	LEU
1	G	405	ARG
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

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Mol	Chain	Res	Type
1	G	513	ILE
1	G	524	GLU
1	G	530	MET
1	G	532	ILE
1	G	534	SER
1	G	537	GLU
1	G	549	SER
1	G	561	LYS
1	G	562	SER
1	G	569	LYS
1	G	580	SER
1	G	596	LEU
1	G	597	GLU
1	G	604	ASN
1	G	608	ILE
1	G	610	LEU
1	G	615	SER
1	G	621	LEU
1	G	625	THR
1	G	664	LEU
1	G	666	SER
1	G	673	ARG
1	G	675	ILE
1	G	676	ILE
1	G	686	MET
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

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Mol	Chain	Res	Type
1	G	728	ASN
1	G	744	SER
1	G	745	GLU
1	G	748	LEU
1	G	752	ASP
1	G	753	VAL
1	G	754	ASP
1	G	762	HIS
1	G	772	LEU
1	G	774	LEU
1	G	785	GLU
1	G	787	ILE
1	G	793	ARG
1	G	798	LEU
1	G	799	MET
1	G	802	GLU
1	G	810	ARG
1	G	816	ILE
1	G	819	ASN
1	G	822	SER
1	G	832	MET
1	G	834	LEU
1	G	838	ILE
1	G	842	LEU
1	G	843	LYS
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

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Mol	Chain	Res	Type
1	J	52	ILE
1	J	61	THR
1	J	65	GLU
1	J	69	THR
1	J	70	LEU
1	J	72	VAL
1	J	73	LYS
1	J	75	ASP
1	J	76	GLN
1	J	88	ILE
1	J	97	LEU
1	J	106	LEU
1	J	109	ARG
1	J	114	MET
1	J	117	THR
1	J	121	LEU
1	J	125	THR
1	J	126	VAL
1	J	127	ASN
1	J	136	ASN
1	J	146	LYS
1	J	149	GLN
1	J	155	ILE
1	J	157	SER
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

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Mol	Chain	Res	Type
1	J	199	ILE
1	J	218	LEU
1	J	219	GLU
1	J	221	GLN
1	J	223	ILE
1	J	229	LEU
1	J	244	SER
1	J	245	ARG
1	J	251	ARG
1	J	273	SER
1	J	274	ARG
1	J	278	GLN
1	J	282	GLU
1	J	287	ILE
1	J	290	GLN
1	J	291	ILE
1	J	294	ASN
1	J	298	GLU
1	J	300	ILE
1	J	302	MET
1	J	303	LEU
1	J	305	ILE
1	J	315	VAL
1	J	325	ILE
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	J	689	GLU
1	J	690	LEU
1	J	693	HIS
1	J	698	ASN
1	J	700	VAL
1	J	701	LEU
1	J	702	GLU
1	J	704	ILE
1	J	705	ARG
1	J	707	CYS
1	J	708	ARG
1	J	713	SER
1	J	714	ARG
1	J	716	LEU
1	J	722	GLN
1	J	723	ARG
1	J	727	LEU
1	J	728	ASN
1	J	744	SER
1	J	745	GLU
1	J	748	LEU
1	J	752	ASP
1	J	753	VAL
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

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Mol	Chain	Res	Type
3	L	48	LYS
3	L	83	THR
3	L	85	GLU
3	L	96	LYS
1	M	7	MET
1	M	12	GLU
1	M	17	LEU
1	M	20	SER
1	M	22	LYS
1	M	23	GLU
1	M	25	ILE
1	M	36	SER
1	M	37	SER
1	M	38	VAL
1	M	40	VAL
1	M	41	VAL
1	M	46	SER
1	M	52	ILE
1	M	61	THR
1	M	65	GLU
1	M	69	THR
1	M	70	LEU
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

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Mol	Chain	Res	Type
1	M	159	SER
1	M	166	MET
1	M	167	LEU
1	M	169	ASP
1	M	170	ARG
1	M	173	GLN
1	M	175	ILE
1	M	178	THR
1	M	180	GLU
1	M	185	LYS
1	M	186	THR
1	M	187	VAL
1	M	189	THR
1	M	191	ARG
1	M	193	ILE
1	M	194	GLN
1	M	198	THR
1	M	199	ILE
1	M	218	LEU
1	M	219	GLU
1	M	221	GLN
1	M	223	ILE
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

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Mol	Chain	Res	Type
1	M	332	MET
1	M	336	SER
1	M	351	ILE
1	M	354	LEU
1	M	359	MET
1	M	364	LEU
1	M	365	LYS
1	M	372	GLU
1	M	376	GLU
1	M	381	GLU
1	M	389	LEU
1	M	392	LEU
1	M	394	SER
1	M	399	LYS
1	M	401	LEU
1	M	405	ARG
1	M	410	ASN
1	M	411	GLU
1	M	439	LEU
1	M	448	GLN
1	M	449	LEU
1	M	452	LYS
1	M	453	GLN
1	M	455	ARG
1	M	456	GLN
1	M	457	TYR
1	M	462	LEU
1	M	471	ASP
1	M	480	ILE
1	M	487	LEU
1	M	495	MET
1	M	498	LEU
1	M	506	GLU
1	M	513	ILE
1	M	524	GLU
1	M	530	MET
1	M	532	ILE
1	M	534	SER
1	M	537	GLU
1	M	549	SER
1	M	561	LYS
1	M	562	SER

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Mol	Chain	Res	Type
1	M	569	LYS
1	M	580	SER
1	M	593	SER
1	M	596	LEU
1	M	597	GLU
1	M	604	ASN
1	M	608	ILE
1	M	610	LEU
1	M	615	SER
1	M	621	LEU
1	M	625	THR
1	M	664	LEU
1	M	666	SER
1	M	673	ARG
1	M	675	ILE
1	M	676	ILE
1	M	686	MET
1	M	689	GLU
1	M	690	LEU
1	M	693	HIS
1	M	698	ASN
1	M	700	VAL
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

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Mol	Chain	Res	Type
1	M	772	LEU
1	M	774	LEU
1	M	785	GLU
1	M	787	ILE
1	M	793	ARG
1	M	798	LEU
1	M	799	MET
1	M	802	GLU
1	M	810	ARG
1	M	816	ILE
1	M	819	ASN
1	M	822	SER
1	M	832	MET
1	M	834	LEU
1	M	838	ILE
1	M	842	LEU
1	M	843	LYS
3	O	48	LYS
3	O	83	THR
3	O	85	GLU
3	O	96	LYS
1	S	7	MET
1	S	12	GLU
1	S	17	LEU
1	S	20	SER
1	S	22	LYS
1	S	23	GLU
1	S	25	ILE
1	S	36	SER
1	S	37	SER
1	S	38	VAL
1	S	40	VAL
1	S	41	VAL
1	S	46	SER
1	S	52	ILE
1	S	61	THR
1	S	65	GLU
1	S	69	THR
1	S	70	LEU
1	S	72	VAL
1	S	73	LYS
1	S	75	ASP

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Mol	Chain	Res	Type
1	S	76	GLN
1	S	88	ILE
1	S	97	LEU
1	S	106	LEU
1	S	109	ARG
1	S	114	MET
1	S	117	THR
1	S	121	LEU
1	S	125	THR
1	S	126	VAL
1	S	127	ASN
1	S	136	ASN
1	S	146	LYS
1	S	149	GLN
1	S	155	ILE
1	S	157	SER
1	S	158	ILE
1	S	159	SER
1	S	166	MET
1	S	167	LEU
1	S	169	ASP
1	S	170	ARG
1	S	173	GLN
1	S	175	ILE
1	S	178	THR
1	S	180	GLU
1	S	185	LYS
1	S	186	THR
1	S	187	VAL
1	S	189	THR
1	S	191	ARG
1	S	193	ILE
1	S	194	GLN
1	S	198	THR
1	S	199	ILE
1	S	218	LEU
1	S	219	GLU
1	S	221	GLN
1	S	223	ILE
1	S	229	LEU
1	S	244	SER
1	S	245	ARG

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Mol	Chain	Res	Type
1	S	251	ARG
1	S	273	SER
1	S	274	ARG
1	S	278	GLN
1	S	282	GLU
1	S	287	ILE
1	S	290	GLN
1	S	291	ILE
1	S	294	ASN
1	S	298	GLU
1	S	300	ILE
1	S	302	MET
1	S	303	LEU
1	S	305	ILE
1	S	315	VAL
1	S	325	ILE
1	S	331	LEU
1	S	332	MET
1	S	336	SER
1	S	351	ILE
1	S	354	LEU
1	S	359	MET
1	S	364	LEU
1	S	365	LYS
1	S	372	GLU
1	S	376	GLU
1	S	381	GLU
1	S	389	LEU
1	S	392	LEU
1	S	394	SER
1	S	399	LYS
1	S	401	LEU
1	S	405	ARG
1	S	410	ASN
1	S	411	GLU
1	S	439	LEU
1	S	448	GLN
1	S	449	LEU
1	S	452	LYS
1	S	453	GLN
1	S	455	ARG
1	S	456	GLN

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Mol	Chain	Res	Type
1	S	457	TYR
1	S	462	LEU
1	S	471	ASP
1	S	480	ILE
1	S	487	LEU
1	S	495	MET
1	S	498	LEU
1	S	506	GLU
1	S	513	ILE
1	S	524	GLU
1	S	530	MET
1	S	532	ILE
1	S	534	SER
1	S	537	GLU
1	S	549	SER
1	S	561	LYS
1	S	562	SER
1	S	569	LYS
1	S	580	SER
1	S	593	SER
1	S	596	LEU
1	S	597	GLU
1	S	604	ASN
1	S	608	ILE
1	S	610	LEU
1	S	615	SER
1	S	621	LEU
1	S	625	THR
1	S	664	LEU
1	S	666	SER
1	S	673	ARG
1	S	675	ILE
1	S	676	ILE
1	S	686	MET
1	S	689	GLU
1	S	690	LEU
1	S	693	HIS
1	S	698	ASN
1	S	700	VAL
1	S	701	LEU
1	S	702	GLU
1	S	704	ILE

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Mol	Chain	Res	Type
1	S	705	ARG
1	S	707	CYS
1	S	708	ARG
1	S	713	SER
1	S	714	ARG
1	S	716	LEU
1	S	722	GLN
1	S	723	ARG
1	S	727	LEU
1	S	728	ASN
1	S	744	SER
1	S	745	GLU
1	S	748	LEU
1	S	752	ASP
1	S	753	VAL
1	S	754	ASP
1	S	762	HIS
1	S	772	LEU
1	S	774	LEU
1	S	785	GLU
1	S	787	ILE
1	S	793	ARG
1	S	798	LEU
1	S	799	MET
1	S	802	GLU
1	S	810	ARG
1	S	816	ILE
1	S	819	ASN
1	S	822	SER
1	S	832	MET
1	S	834	LEU
1	S	838	ILE
1	S	842	LEU
1	S	843	LYS
3	U	48	LYS
3	U	83	THR
3	U	85	GLU
3	U	96	LYS
4	1	16	LEU
4	1	33	SER
4	1	34	ILE
4	1	37	ARG

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Mol	Chain	Res	Type
4	1	65	LEU
4	1	66	THR
4	1	67	LEU
4	1	72	GLU
4	1	80	ASP
4	1	99	GLU
4	1	100	GLU
4	1	109	PRO
4	1	145	SER
4	1	153	LEU
4	1	159	VAL
4	1	180	LEU
4	1	196	ARG
4	1	199	SER
4	1	201	VAL
4	1	206	ARG
4	1	221	LEU
4	1	223	PHE
4	1	229	THR
4	1	238	LYS
4	1	239	SER
4	1	242	LEU
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

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Mol	Chain	Res	Type
4	1	351	THR
4	1	353	GLN
4	1	354	GLN
4	1	361	GLU
4	1	368	SER
4	2	16	LEU
4	2	33	SER
4	2	34	ILE
4	2	37	ARG
4	2	65	LEU
4	2	66	THR
4	2	67	LEU
4	2	72	GLU
4	2	80	ASP
4	2	99	GLU
4	2	100	GLU
4	2	109	PRO
4	2	145	SER
4	2	153	LEU
4	2	159	VAL
4	2	180	LEU
4	2	196	ARG
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

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Mol	Chain	Res	Type
4	2	305	MET
4	2	312	ARG
4	2	315	LYS
4	2	318	THR
4	2	320	LEU
4	2	327	ILE
4	2	334	GLU
4	2	349	LEU
4	2	350	SER
4	2	351	THR
4	2	353	GLN
4	2	354	GLN
4	2	361	GLU
4	2	368	SER
4	3	16	LEU
4	3	33	SER
4	3	34	ILE
4	3	37	ARG
4	3	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

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Mol	Chain	Res	Type
4	3	263	GLN
4	3	274	ILE
4	3	281	SER
4	3	283	MET
4	3	287	ILE
4	3	291	LYS
4	3	293	LEU
4	3	297	ASN
4	3	299	MET
4	3	305	MET
4	3	312	ARG
4	3	315	LYS
4	3	318	THR
4	3	320	LEU
4	3	327	ILE
4	3	334	GLU
4	3	349	LEU
4	3	350	SER
4	3	351	THR
4	3	353	GLN
4	3	354	GLN
4	3	361	GLU
4	3	368	SER
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

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Mol	Chain	Res	Type
4	4	206	ARG
4	4	221	LEU
4	4	223	PHE
4	4	229	THR
4	4	238	LYS
4	4	239	SER
4	4	242	LEU
4	4	246	GLN
4	4	253	GLU
4	4	263	GLN
4	4	274	ILE
4	4	281	SER
4	4	283	MET
4	4	287	ILE
4	4	291	LYS
4	4	293	LEU
4	4	297	ASN
4	4	299	MET
4	4	305	MET
4	4	312	ARG
4	4	315	LYS
4	4	318	THR
4	4	320	LEU
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

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Mol	Chain	Res	Type
4	5	100	GLU
4	5	109	PRO
4	5	145	SER
4	5	153	LEU
4	5	159	VAL
4	5	180	LEU
4	5	196	ARG
4	5	199	SER
4	5	201	VAL
4	5	206	ARG
4	5	221	LEU
4	5	223	PHE
4	5	229	THR
4	5	238	LYS
4	5	239	SER
4	5	242	LEU
4	5	246	GLN
4	5	253	GLU
4	5	263	GLN
4	5	274	ILE
4	5	281	SER
4	5	283	MET
4	5	287	ILE
4	5	291	LYS
4	5	293	LEU
4	5	297	ASN
4	5	299	MET
4	5	305	MET
4	5	312	ARG
4	5	315	LYS
4	5	318	THR
4	5	320	LEU
4	5	327	ILE
4	5	334	GLU
4	5	349	LEU
4	5	350	SER
4	5	351	THR
4	5	353	GLN
4	5	354	GLN
4	5	361	GLU
4	5	368	SER
4	6	16	LEU

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Mol	Chain	Res	Type
4	6	33	SER
4	6	34	ILE
4	6	37	ARG
4	6	66	THR
4	6	67	LEU
4	6	72	GLU
4	6	80	ASP
4	6	99	GLU
4	6	100	GLU
4	6	109	PRO
4	6	145	SER
4	6	153	LEU
4	6	159	VAL
4	6	180	LEU
4	6	196	ARG
4	6	199	SER
4	6	201	VAL
4	6	206	ARG
4	6	221	LEU
4	6	223	PHE
4	6	229	THR
4	6	238	LYS
4	6	239	SER
4	6	242	LEU
4	6	246	GLN
4	6	253	GLU
4	6	263	GLN
4	6	274	ILE
4	6	281	SER
4	6	283	MET
4	6	287	ILE
4	6	291	LYS
4	6	293	LEU
4	6	297	ASN
4	6	299	MET
4	6	305	MET
4	6	312	ARG
4	6	315	LYS
4	6	318	THR
4	6	320	LEU
4	6	327	ILE
4	6	334	GLU

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Mol	Chain	Res	Type
4	6	349	LEU
4	6	350	SER
4	6	351	THR
4	6	353	GLN
4	6	354	GLN
4	6	361	GLU
4	6	368	SER
4	7	16	LEU
4	7	33	SER
4	7	34	ILE
4	7	37	ARG
4	7	65	LEU
4	7	66	THR
4	7	67	LEU
4	7	72	GLU
4	7	80	ASP
4	7	99	GLU
4	7	100	GLU
4	7	109	PRO
4	7	145	SER
4	7	153	LEU
4	7	159	VAL
4	7	180	LEU
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

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Mol	Chain	Res	Type
4	7	297	ASN
4	7	299	MET
4	7	305	MET
4	7	312	ARG
4	7	315	LYS
4	7	318	THR
4	7	320	LEU
4	7	327	ILE
4	7	334	GLU
4	7	349	LEU
4	7	350	SER
4	7	351	THR
4	7	353	GLN
4	7	354	GLN
4	7	361	GLU
4	7	368	SER
4	8	16	LEU
4	8	33	SER
4	8	34	ILE
4	8	37	ARG
4	8	65	LEU
4	8	66	THR
4	8	67	LEU
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

Continued on next page...

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Mol	Chain	Res	Type
4	8	246	GLN
4	8	253	GLU
4	8	263	GLN
4	8	274	ILE
4	8	281	SER
4	8	283	MET
4	8	287	ILE
4	8	291	LYS
4	8	293	LEU
4	8	297	ASN
4	8	299	MET
4	8	305	MET
4	8	312	ARG
4	8	315	LYS
4	8	318	THR
4	8	320	LEU
4	8	327	ILE
4	8	334	GLU
4	8	349	LEU
4	8	350	SER
4	8	351	THR
4	8	353	GLN
4	8	354	GLN
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

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Mol	Chain	Res	Type
4	9	199	SER
4	9	201	VAL
4	9	206	ARG
4	9	221	LEU
4	9	223	PHE
4	9	229	THR
4	9	238	LYS
4	9	239	SER
4	9	242	LEU
4	9	246	GLN
4	9	253	GLU
4	9	263	GLN
4	9	274	ILE
4	9	281	SER
4	9	283	MET
4	9	287	ILE
4	9	291	LYS
4	9	293	LEU
4	9	297	ASN
4	9	299	MET
4	9	305	MET
4	9	312	ARG
4	9	315	LYS
4	9	318	THR
4	9	320	LEU
4	9	327	ILE
4	9	334	GLU
4	9	349	LEU
4	9	350	SER
4	9	351	THR
4	9	353	GLN
4	9	354	GLN
4	9	361	GLU
4	9	368	SER
4	V	16	LEU
4	V	33	SER
4	V	34	ILE
4	V	37	ARG
4	V	65	LEU
4	V	66	THR
4	V	67	LEU
4	V	72	GLU

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Mol	Chain	Res	Type
4	V	80	ASP
4	V	99	GLU
4	V	100	GLU
4	V	109	PRO
4	V	145	SER
4	V	153	LEU
4	V	159	VAL
4	V	180	LEU
4	V	196	ARG
4	V	199	SER
4	V	201	VAL
4	V	206	ARG
4	V	221	LEU
4	V	223	PHE
4	V	229	THR
4	V	238	LYS
4	V	239	SER
4	V	242	LEU
4	V	246	GLN
4	V	253	GLU
4	V	263	GLN
4	V	274	ILE
4	V	281	SER
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

Continued on next page...

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Mol	Chain	Res	Type
4	V	368	SER
4	W	16	LEU
4	W	33	SER
4	W	34	ILE
4	W	37	ARG
4	W	65	LEU
4	W	66	THR
4	W	67	LEU
4	W	72	GLU
4	W	80	ASP
4	W	99	GLU
4	W	100	GLU
4	W	109	PRO
4	W	145	SER
4	W	153	LEU
4	W	159	VAL
4	W	180	LEU
4	W	196	ARG
4	W	199	SER
4	W	201	VAL
4	W	206	ARG
4	W	221	LEU
4	W	223	PHE
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

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Mol	Chain	Res	Type
4	W	320	LEU
4	W	327	ILE
4	W	334	GLU
4	W	349	LEU
4	W	350	SER
4	W	351	THR
4	W	353	GLN
4	W	354	GLN
4	W	361	GLU
4	W	368	SER
4	X	16	LEU
4	X	33	SER
4	X	34	ILE
4	X	37	ARG
4	X	66	THR
4	X	67	LEU
4	X	72	GLU
4	X	80	ASP
4	X	99	GLU
4	X	100	GLU
4	X	109	PRO
4	X	145	SER
4	X	153	LEU
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

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Mol	Chain	Res	Type
4	X	291	LYS
4	X	293	LEU
4	X	297	ASN
4	X	299	MET
4	X	305	MET
4	X	312	ARG
4	X	315	LYS
4	X	318	THR
4	X	320	LEU
4	X	327	ILE
4	X	334	GLU
4	X	349	LEU
4	X	350	SER
4	X	351	THR
4	X	353	GLN
4	X	354	GLN
4	X	361	GLU
4	X	368	SER
4	Y	16	LEU
4	Y	33	SER
4	Y	34	ILE
4	Y	37	ARG
4	Y	65	LEU
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

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

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Mol	Chain	Res	Type
4	Z	180	LEU
4	Z	196	ARG
4	Z	199	SER
4	Z	201	VAL
4	Z	206	ARG
4	Z	221	LEU
4	Z	223	PHE
4	Z	229	THR
4	Z	238	LYS
4	Z	239	SER
4	Z	242	LEU
4	Z	246	GLN
4	Z	253	GLU
4	Z	263	GLN
4	Z	274	ILE
4	Z	281	SER
4	Z	283	MET
4	Z	287	ILE
4	Z	291	LYS
4	Z	293	LEU
4	Z	297	ASN
4	Z	299	MET
4	Z	305	MET
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 (288) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	GLN
1	A	29	ASN

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Mol	Chain	Res	Type
1	A	76	GLN
1	A	127	ASN
1	A	164	GLN
1	A	188	ASN
1	A	194	GLN
1	A	221	GLN
1	A	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	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

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Mol	Chain	Res	Type
1	D	368	GLN
1	D	424	ASN
1	D	447	GLN
1	D	453	GLN
1	D	481	ASN
1	D	484	ASN
1	D	488	GLN
1	D	563	ASN
1	D	564	ASN
1	D	578	HIS
1	D	591	ASN
1	D	612	GLN
1	D	656	ASN
1	D	670	HIS
1	D	698	ASN
1	D	762	HIS
1	D	791	GLN
1	D	825	ASN
2	E	159	HIS
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	488	GLN
1	G	563	ASN
1	G	564	ASN

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Mol	Chain	Res	Type
1	G	578	HIS
1	G	591	ASN
1	G	612	GLN
1	G	656	ASN
1	G	670	HIS
1	G	698	ASN
1	G	762	HIS
1	G	791	GLN
1	G	825	ASN
3	I	52	ASN
3	I	59	ASN
3	I	109	HIS
1	J	29	ASN
1	J	76	GLN
1	J	127	ASN
1	J	149	GLN
1	J	164	GLN
1	J	188	ASN
1	J	194	GLN
1	J	221	GLN
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	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

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Mol	Chain	Res	Type
3	L	40	ASN
3	L	52	ASN
3	L	59	ASN
1	M	29	ASN
1	M	76	GLN
1	M	127	ASN
1	M	149	GLN
1	M	164	GLN
1	M	188	ASN
1	M	194	GLN
1	M	221	GLN
1	M	234	ASN
1	M	253	HIS
1	M	290	GLN
1	M	360	HIS
1	M	368	GLN
1	M	424	ASN
1	M	447	GLN
1	M	453	GLN
1	M	481	ASN
1	M	484	ASN
1	M	488	GLN
1	M	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
3	O	52	ASN
3	O	59	ASN
1	S	29	ASN
1	S	76	GLN
1	S	127	ASN
1	S	154	HIS
1	S	164	GLN
1	S	188	ASN
1	S	194	GLN
1	S	221	GLN

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Mol	Chain	Res	Type
1	S	253	HIS
1	S	290	GLN
1	S	360	HIS
1	S	368	GLN
1	S	424	ASN
1	S	453	GLN
1	S	481	ASN
1	S	484	ASN
1	S	488	GLN
1	S	563	ASN
1	S	564	ASN
1	S	578	HIS
1	S	591	ASN
1	S	612	GLN
1	S	656	ASN
1	S	670	HIS
1	S	698	ASN
1	S	825	ASN
2	T	159	HIS
3	U	40	ASN
3	U	52	ASN
3	U	59	ASN
4	1	40	HIS
4	1	41	GLN
4	1	78	ASN
4	1	137	GLN
4	1	252	ASN
4	1	263	GLN
4	1	354	GLN
4	1	360	GLN
4	2	40	HIS
4	2	41	GLN
4	2	78	ASN
4	2	137	GLN
4	2	252	ASN
4	2	263	GLN
4	2	360	GLN
4	3	40	HIS
4	3	41	GLN
4	3	78	ASN
4	3	137	GLN
4	3	252	ASN

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Mol	Chain	Res	Type
4	3	263	GLN
4	3	354	GLN
4	4	40	HIS
4	4	49	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	111	ASN
4	5	137	GLN
4	5	252	ASN
4	5	263	GLN
4	5	354	GLN
4	6	40	HIS
4	6	41	GLN
4	6	78	ASN
4	6	252	ASN
4	6	263	GLN
4	6	354	GLN
4	7	40	HIS
4	7	41	GLN
4	7	137	GLN
4	7	252	ASN
4	7	263	GLN
4	7	354	GLN
4	7	360	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	9	40	HIS
4	9	41	GLN
4	9	78	ASN
4	9	137	GLN
4	9	252	ASN
4	9	263	GLN

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Mol	Chain	Res	Type
4	V	40	HIS
4	V	41	GLN
4	V	78	ASN
4	V	137	GLN
4	V	252	ASN
4	V	263	GLN
4	W	40	HIS
4	W	41	GLN
4	W	78	ASN
4	W	137	GLN
4	W	252	ASN
4	W	263	GLN
4	W	360	GLN
4	X	40	HIS
4	X	41	GLN
4	X	78	ASN
4	X	92	ASN
4	X	137	GLN
4	X	252	ASN
4	X	263	GLN
4	X	354	GLN
4	Y	40	HIS
4	Y	41	GLN
4	Y	78	ASN
4	Y	92	ASN
4	Y	263	GLN
4	Y	354	GLN
4	Y	360	GLN
4	Z	40	HIS
4	Z	41	GLN
4	Z	78	ASN
4	Z	137	GLN
4	Z	252	ASN
4	Z	263	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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	S	431	1	9,10,11	0.51	0	6,11,13	0.45	0
1	MLY	A	598	1	9,10,11	0.84	1 (11%)	6,11,13	0.42	0
1	MLY	A	87	1	9,10,11	1.11	1 (11%)	6,11,13	0.42	0
1	MLY	S	272	1	9,10,11	0.89	1 (11%)	6,11,13	0.56	0
1	MLY	A	431	1	9,10,11	0.50	0	6,11,13	0.44	0
1	MLY	M	190	1	9,10,11	1.20	2 (22%)	6,11,13	0.53	0
1	MLY	A	248	1	9,10,11	0.81	0	6,11,13	0.64	0
1	MLY	A	839	1	9,10,11	0.65	0	6,11,13	0.82	0
1	MLY	S	764	1	9,10,11	0.81	0	6,11,13	0.38	0
1	MLY	D	295	1	9,10,11	0.75	0	6,11,13	0.38	0
1	MLY	D	30	1	9,10,11	0.93	0	6,11,13	0.31	0
1	MLY	G	367	1	9,10,11	0.62	0	6,11,13	0.38	0
1	MLY	J	369	1	9,10,11	0.70	0	6,11,13	0.46	0
1	MLY	D	528	1	9,10,11	0.92	0	6,11,13	0.64	0
1	MLY	J	505	1	9,10,11	0.86	1 (11%)	6,11,13	0.34	0
1	MLY	G	837	1	9,10,11	0.58	0	6,11,13	0.53	0
1	MLY	D	782	1	9,10,11	0.82	0	6,11,13	0.34	0
1	MLY	J	613	1	9,10,11	0.57	0	6,11,13	0.62	0
1	MLY	M	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	M	528	1	9,10,11	0.89	0	6,11,13	0.64	0
1	MLY	S	63	1	9,10,11	0.84	0	6,11,13	0.44	0
1	MLY	J	296	1	9,10,11	0.65	0	6,11,13	0.35	0
1	MLY	M	659	1	9,10,11	0.82	0	6,11,13	0.57	0
1	MLY	G	833	1	9,10,11	1.14	1 (11%)	6,11,13	0.32	0
1	MLY	S	130	1	9,10,11	0.77	0	6,11,13	0.73	0
1	MLY	A	436	1	9,10,11	0.94	1 (11%)	6,11,13	0.48	0
1	MLY	D	839	1	9,10,11	0.63	0	6,11,13	0.80	0
1	MLY	G	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.48	0
1	MLY	A	768	1	9,10,11	0.77	0	6,11,13	0.41	0
1	MLY	J	839	1	9,10,11	0.65	0	6,11,13	0.77	0
1	MLY	G	369	1	9,10,11	0.71	0	6,11,13	0.47	0
1	MLY	A	63	1	9,10,11	0.87	0	6,11,13	0.44	0
1	MLY	D	553	1,4	9,10,11	0.65	0	6,11,13	0.55	0
1	MLY	M	63	1	9,10,11	0.87	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	M	295	1	9,10,11	0.75	0	6,11,13	0.37	0
1	MLY	S	348	1	9,10,11	0.76	0	6,11,13	0.47	0
1	MLY	S	367	1	9,10,11	0.60	0	6,11,13	0.38	0
1	MLY	G	505	1	9,10,11	0.81	0	6,11,13	0.35	0
1	MLY	J	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.53	0
1	MLY	J	833	1	9,10,11	1.15	1 (11%)	6,11,13	0.30	0
1	MLY	G	600	1	9,10,11	0.52	0	6,11,13	0.39	0
1	MLY	S	528	1	9,10,11	0.89	0	6,11,13	0.66	0
1	MLY	A	764	1	9,10,11	0.81	0	6,11,13	0.35	0
1	MLY	D	486	1	9,10,11	0.68	0	6,11,13	0.40	0
1	MLY	D	138	1	9,10,11	1.25	1 (11%)	6,11,13	0.84	0
1	MLY	G	764	1	9,10,11	0.79	0	6,11,13	0.35	0
1	MLY	J	659	1	9,10,11	0.82	0	6,11,13	0.57	0
1	MLY	M	553	1,4	9,10,11	0.66	0	6,11,13	0.53	0
1	MLY	G	138	1	9,10,11	1.22	1 (11%)	6,11,13	0.82	0
1	MLY	J	837	1	9,10,11	0.58	0	6,11,13	0.57	0
1	MLY	J	30	1	9,10,11	0.91	0	6,11,13	0.32	0
1	MLY	M	837	1	9,10,11	0.58	0	6,11,13	0.56	0
1	MLY	D	768	1	9,10,11	0.73	0	6,11,13	0.40	0
1	MLY	M	598	1	9,10,11	0.84	1 (11%)	6,11,13	0.41	0
1	MLY	S	236	1	9,10,11	0.82	1 (11%)	6,11,13	0.47	0
1	MLY	A	190	1	9,10,11	1.22	2 (22%)	6,11,13	0.52	0
1	MLY	M	436	1	9,10,11	0.96	1 (11%)	6,11,13	0.48	0
1	MLY	D	63	1	9,10,11	0.87	0	6,11,13	0.46	0
1	MLY	S	49	1	9,10,11	1.01	1 (11%)	6,11,13	0.74	0
1	MLY	D	55	1	9,10,11	0.72	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	S	59	1	9,10,11	0.84	0	6,11,13	0.48	0
1	MLY	D	130	1	9,10,11	0.80	0	6,11,13	0.72	0
1	MLY	M	87	1	9,10,11	1.10	1 (11%)	6,11,13	0.42	0
1	MLY	M	415	1	9,10,11	0.75	0	6,11,13	0.19	0
1	MLY	G	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.45	0
1	MLY	D	353	1	9,10,11	0.86	0	6,11,13	0.81	0
1	MLY	S	107	1	9,10,11	0.49	0	6,11,13	0.34	0
1	MLY	S	681	1	9,10,11	0.60	0	6,11,13	0.47	0
1	MLY	J	353	1	9,10,11	0.87	0	6,11,13	0.79	0
1	MLY	G	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	G	353	1	9,10,11	0.87	0	6,11,13	0.82	0
1	MLY	M	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	M	59	1	9,10,11	0.85	0	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	S	613	1	9,10,11	0.57	0	6,11,13	0.62	0
1	MLY	G	248	1	9,10,11	0.79	0	6,11,13	0.66	0
1	MLY	J	385	1	9,10,11	0.93	1 (11%)	6,11,13	0.45	0
1	MLY	S	837	1	9,10,11	0.57	0	6,11,13	0.55	0
1	MLY	A	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	M	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.81	0
1	MLY	S	84	1	9,10,11	0.51	0	6,11,13	0.81	0
1	MLY	J	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	D	367	1	9,10,11	0.57	0	6,11,13	0.38	0
1	MLY	M	768	1	9,10,11	0.76	0	6,11,13	0.42	0
1	MLY	A	59	1	9,10,11	0.85	0	6,11,13	0.48	0
1	MLY	J	782	1	9,10,11	0.82	0	6,11,13	0.36	0
1	MLY	D	837	1	9,10,11	0.60	0	6,11,13	0.58	0
1	MLY	J	248	1	9,10,11	0.81	0	6,11,13	0.65	0
1	MLY	A	504	1	9,10,11	0.89	0	6,11,13	0.24	0
1	MLY	M	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.75	0
1	MLY	A	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	J	504	1	9,10,11	0.84	0	6,11,13	0.23	0
1	MLY	M	348	1	9,10,11	0.75	0	6,11,13	0.47	0
1	MLY	A	30	1	9,10,11	0.90	0	6,11,13	0.32	0
1	MLY	D	827	1	9,10,11	0.66	0	6,11,13	0.47	0
1	MLY	M	369	1	9,10,11	0.72	0	6,11,13	0.45	0
1	MLY	D	504	1	9,10,11	0.87	0	6,11,13	0.21	0
1	MLY	S	385	1	9,10,11	0.93	1 (11%)	6,11,13	0.45	0
1	MLY	G	348	1	9,10,11	0.81	0	6,11,13	0.48	0
1	MLY	G	827	1	9,10,11	0.69	0	6,11,13	0.49	0
1	MLY	S	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	S	19	1	9,10,11	1.06	1 (11%)	6,11,13	0.58	0
1	MLY	D	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.76	0
1	MLY	D	369	1	9,10,11	0.70	0	6,11,13	0.44	0
1	MLY	D	35	1	9,10,11	0.74	0	6,11,13	0.37	0
1	MLY	M	613	1	9,10,11	0.57	0	6,11,13	0.62	0
1	MLY	G	553	1,4	9,10,11	0.64	0	6,11,13	0.55	0
1	MLY	D	505	1	9,10,11	0.79	0	6,11,13	0.35	0
1	MLY	A	49	1	9,10,11	0.97	1 (11%)	6,11,13	0.74	0
1	MLY	A	107	1	9,10,11	0.48	0	6,11,13	0.32	0
1	MLY	J	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	A	385	1	9,10,11	0.92	1 (11%)	6,11,13	0.44	0
1	MLY	G	295	1	9,10,11	0.75	0	6,11,13	0.35	0
1	MLY	J	600	1	9,10,11	0.54	0	6,11,13	0.38	0
1	MLY	M	504	1	9,10,11	0.84	0	6,11,13	0.23	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	A	19	1	9,10,11	1.02	1 (11%)	6,11,13	0.58	0
1	MLY	S	827	1	9,10,11	0.69	0	6,11,13	0.48	0
1	MLY	S	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	A	296	1	9,10,11	0.60	0	6,11,13	0.35	0
1	MLY	S	138	1	9,10,11	1.21	1 (11%)	6,11,13	0.81	0
1	MLY	G	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.52	0
1	MLY	M	827	1	9,10,11	0.71	0	6,11,13	0.48	0
1	MLY	G	768	1	9,10,11	0.75	0	6,11,13	0.42	0
1	MLY	A	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	M	84	1	9,10,11	0.51	0	6,11,13	0.81	0
1	MLY	A	353	1	9,10,11	0.87	0	6,11,13	0.80	0
1	MLY	J	107	1	9,10,11	0.50	0	6,11,13	0.33	0
1	MLY	G	272	1	9,10,11	0.87	1 (11%)	6,11,13	0.54	0
1	MLY	D	613	1	9,10,11	0.58	0	6,11,13	0.61	0
1	MLY	S	248	1	9,10,11	0.80	0	6,11,13	0.65	0
1	MLY	M	486	1	9,10,11	0.66	0	6,11,13	0.41	0
1	MLY	J	415	1	9,10,11	0.74	0	6,11,13	0.19	0
1	MLY	D	84	1	9,10,11	0.52	0	6,11,13	0.81	0
1	MLY	D	19	1	9,10,11	1.08	1 (11%)	6,11,13	0.57	0
1	MLY	D	87	1	9,10,11	1.06	1 (11%)	6,11,13	0.44	0
1	MLY	A	837	1	9,10,11	0.59	0	6,11,13	0.54	0
1	MLY	D	415	1	9,10,11	0.76	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	A	486	1	9,10,11	0.67	0	6,11,13	0.39	0
1	MLY	D	296	1	9,10,11	0.62	0	6,11,13	0.37	0
1	MLY	G	19	1	9,10,11	1.04	1 (11%)	6,11,13	0.58	0
1	MLY	G	486	1	9,10,11	0.67	0	6,11,13	0.40	0
1	MLY	G	55	1	9,10,11	0.74	0	6,11,13	0.81	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	0.84	1 (11%)	6,11,13	0.50	0
1	MLY	D	248	1	9,10,11	0.83	0	6,11,13	0.66	0
1	MLY	G	659	1	9,10,11	0.86	1 (11%)	6,11,13	0.59	0
1	MLY	G	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	J	63	1	9,10,11	0.86	0	6,11,13	0.43	0
1	MLY	J	295	1	9,10,11	0.75	0	6,11,13	0.37	0
1	MLY	J	486	1	9,10,11	0.65	0	6,11,13	0.41	0
1	MLY	J	130	1	9,10,11	0.76	0	6,11,13	0.73	0
1	MLY	M	236	1	9,10,11	0.84	1 (11%)	6,11,13	0.47	0
1	MLY	D	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.48	0
1	MLY	D	385	1	9,10,11	0.90	1 (11%)	6,11,13	0.46	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	0.66	0	6,11,13	0.55	0
1	MLY	M	55	1	9,10,11	0.73	0	6,11,13	0.79	0
1	MLY	S	617	1	9,10,11	0.92	1 (11%)	6,11,13	0.34	0
1	MLY	D	436	1	9,10,11	0.98	1 (11%)	6,11,13	0.49	0
1	MLY	M	130	1	9,10,11	0.77	0	6,11,13	0.72	0
1	MLY	M	353	1	9,10,11	0.86	0	6,11,13	0.81	0
1	MLY	J	55	1	9,10,11	0.74	0	6,11,13	0.80	0
1	MLY	D	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	J	436	1	9,10,11	0.95	1 (11%)	6,11,13	0.48	0
1	MLY	S	486	1	9,10,11	0.65	0	6,11,13	0.41	0
1	MLY	G	436	1	9,10,11	0.94	1 (11%)	6,11,13	0.47	0
1	MLY	D	600	1	9,10,11	0.52	0	6,11,13	0.38	0
1	MLY	J	348	1	9,10,11	0.77	0	6,11,13	0.47	0
1	MLY	M	385	1	9,10,11	0.94	1 (11%)	6,11,13	0.45	0
1	MLY	M	681	1	9,10,11	0.57	0	6,11,13	0.47	0
1	MLY	S	768	1	9,10,11	0.76	0	6,11,13	0.42	0
1	MLY	M	296	1	9,10,11	0.67	0	6,11,13	0.35	0
1	MLY	J	59	1	9,10,11	0.85	0	6,11,13	0.47	0
1	MLY	G	528	1	9,10,11	0.92	0	6,11,13	0.66	0
1	MLY	M	782	1	9,10,11	0.80	0	6,11,13	0.37	0
1	MLY	M	19	1	9,10,11	1.05	1 (11%)	6,11,13	0.58	0
1	MLY	J	681	1	9,10,11	0.56	0	6,11,13	0.46	0
1	MLY	M	764	1	9,10,11	0.81	0	6,11,13	0.38	0
1	MLY	S	505	1	9,10,11	0.85	1 (11%)	6,11,13	0.33	0
1	MLY	S	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	S	659	1	9,10,11	0.82	1 (11%)	6,11,13	0.57	0
1	MLY	M	431	1	9,10,11	0.52	0	6,11,13	0.45	0
1	MLY	M	248	1	9,10,11	0.80	0	6,11,13	0.65	0
1	MLY	G	617	1	9,10,11	0.90	0	6,11,13	0.36	0
1	MLY	M	839	1	9,10,11	0.67	0	6,11,13	0.77	0
1	MLY	S	55	1	9,10,11	0.74	0	6,11,13	0.79	0
1	MLY	G	598	1	9,10,11	0.83	0	6,11,13	0.41	0
1	MLY	G	49	1	9,10,11	0.99	1 (11%)	6,11,13	0.74	0
1	MLY	A	272	1	9,10,11	0.90	1 (11%)	6,11,13	0.56	0
1	MLY	J	236	1	9,10,11	0.83	1 (11%)	6,11,13	0.47	0
1	MLY	M	35	1	9,10,11	0.73	0	6,11,13	0.39	0
1	MLY	M	833	1	9,10,11	1.13	2 (22%)	6,11,13	0.30	0
1	MLY	G	504	1	9,10,11	0.88	0	6,11,13	0.21	0
1	MLY	A	415	1	9,10,11	0.73	0	6,11,13	0.19	0
1	MLY	J	528	1	9,10,11	0.89	0	6,11,13	0.66	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	S	436	1	9,10,11	0.93	1 (11%)	6,11,13	0.48	0
1	MLY	A	505	1	9,10,11	0.81	0	6,11,13	0.33	0
1	MLY	D	190	1	9,10,11	1.18	2 (22%)	6,11,13	0.54	0
1	MLY	J	35	1	9,10,11	0.74	0	6,11,13	0.38	0
1	MLY	A	295	1	9,10,11	0.77	0	6,11,13	0.35	0
1	MLY	A	782	1	9,10,11	0.82	0	6,11,13	0.38	0
1	MLY	A	617	1	9,10,11	0.90	0	6,11,13	0.35	0
1	MLY	S	296	1	9,10,11	0.65	0	6,11,13	0.35	0
1	MLY	S	353	1	9,10,11	0.86	0	6,11,13	0.79	0
1	MLY	S	369	1	9,10,11	0.71	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	D	59	1	9,10,11	0.84	0	6,11,13	0.47	0
1	MLY	A	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	D	764	1	9,10,11	0.84	0	6,11,13	0.36	0
1	MLY	G	30	1	9,10,11	0.90	0	6,11,13	0.30	0
1	MLY	G	107	1	9,10,11	0.49	0	6,11,13	0.33	0
1	MLY	D	431	1	9,10,11	0.51	0	6,11,13	0.45	0
1	MLY	G	59	1	9,10,11	0.83	0	6,11,13	0.48	0
1	MLY	D	272	1	9,10,11	0.85	1 (11%)	6,11,13	0.58	0
1	MLY	D	617	1	9,10,11	0.90	0	6,11,13	0.35	0
1	MLY	G	782	1	9,10,11	0.80	0	6,11,13	0.35	0
1	MLY	G	681	1	9,10,11	0.59	0	6,11,13	0.45	0
1	MLY	M	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	D	833	1	9,10,11	1.12	1 (11%)	6,11,13	0.31	0
1	MLY	J	617	1	9,10,11	0.90	0	6,11,13	0.34	0
1	MLY	M	367	1	9,10,11	0.59	0	6,11,13	0.36	0
1	MLY	D	598	1	9,10,11	0.84	0	6,11,13	0.42	0
1	MLY	G	87	1	9,10,11	1.12	1 (11%)	6,11,13	0.42	0
1	MLY	M	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	S	598	1	9,10,11	0.82	0	6,11,13	0.41	0
1	MLY	J	553	1,4	9,10,11	0.65	0	6,11,13	0.54	0
1	MLY	A	130	1	9,10,11	0.79	0	6,11,13	0.73	0
1	MLY	G	35	1	9,10,11	0.74	0	6,11,13	0.38	0
1	MLY	S	504	1	9,10,11	0.85	0	6,11,13	0.23	0
1	MLY	G	839	1	9,10,11	0.66	0	6,11,13	0.80	0
1	MLY	J	367	1	9,10,11	0.58	0	6,11,13	0.36	0
1	MLY	S	190	1	9,10,11	1.21	2 (22%)	6,11,13	0.53	0
1	MLY	J	598	1	9,10,11	0.81	0	6,11,13	0.42	0
1	MLY	J	87	1	9,10,11	1.11	1 (11%)	6,11,13	0.43	0
1	MLY	S	295	1	9,10,11	0.75	0	6,11,13	0.36	0
1	MLY	A	659	1	9,10,11	0.84	1 (11%)	6,11,13	0.59	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MLY	G	296	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	S	30	1	9,10,11	0.91	0	6,11,13	0.31	0
1	MLY	S	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	D	107	1	9,10,11	0.53	0	6,11,13	0.33	0
1	MLY	S	782	1	9,10,11	0.80	0	6,11,13	0.37	0
1	MLY	A	827	1	9,10,11	0.69	0	6,11,13	0.45	0
1	MLY	A	528	1	9,10,11	0.88	0	6,11,13	0.67	0
1	MLY	G	431	1	9,10,11	0.51	0	6,11,13	0.46	0
1	MLY	S	553	1	9,10,11	0.65	0	6,11,13	0.53	0
1	MLY	D	681	1	9,10,11	0.56	0	6,11,13	0.45	0
1	MLY	D	659	1	9,10,11	0.85	1 (11%)	6,11,13	0.60	0
1	MLY	A	681	1	9,10,11	0.56	0	6,11,13	0.46	0
1	MLY	D	551	1	9,10,11	0.54	0	6,11,13	0.20	0
1	MLY	S	833	1	9,10,11	1.14	1 (11%)	6,11,13	0.31	0
1	MLY	J	49	1	9,10,11	0.98	1 (11%)	6,11,13	0.74	0
1	MLY	M	272	1	9,10,11	0.91	1 (11%)	6,11,13	0.56	0
1	MLY	M	617	1	9,10,11	0.91	0	6,11,13	0.34	0
1	MLY	G	613	1	9,10,11	0.60	0	6,11,13	0.61	0
1	MLY	S	87	1	9,10,11	1.13	1 (11%)	6,11,13	0.43	0
1	MLY	J	764	1	9,10,11	0.81	0	6,11,13	0.37	0
1	MLY	M	505	1	9,10,11	0.86	1 (11%)	6,11,13	0.33	0
1	MLY	J	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	J	272	1	9,10,11	0.89	1 (11%)	6,11,13	0.56	0
1	MLY	G	84	1	9,10,11	0.50	0	6,11,13	0.81	0
1	MLY	S	839	1	9,10,11	0.65	0	6,11,13	0.78	0
1	MLY	A	35	1	9,10,11	0.73	0	6,11,13	0.38	0
1	MLY	G	63	1	9,10,11	0.86	0	6,11,13	0.44	0
1	MLY	J	768	1	9,10,11	0.77	0	6,11,13	0.43	0
1	MLY	J	19	1	9,10,11	1.06	1 (11%)	6,11,13	0.58	0
1	MLY	A	600	1	9,10,11	0.51	0	6,11,13	0.39	0
1	MLY	G	130	1	9,10,11	0.77	0	6,11,13	0.74	0
1	MLY	J	827	1	9,10,11	0.72	0	6,11,13	0.48	0
1	MLY	J	138	1	9,10,11	1.22	1 (11%)	6,11,13	0.81	0
1	MLY	A	833	1	9,10,11	1.12	1 (11%)	6,11,13	0.32	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	S	431	1	-	4/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	S	272	1	-	3/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-
1	MLY	M	190	1	-	4/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	S	764	1	-	2/8/9/11	-
1	MLY	D	295	1	-	2/8/9/11	-
1	MLY	D	30	1	-	3/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	D	528	1	-	4/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	G	837	1	-	6/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	J	613	1	-	3/8/9/11	-
1	MLY	M	30	1	-	3/8/9/11	-
1	MLY	M	528	1	-	4/8/9/11	-
1	MLY	S	63	1	-	4/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	M	659	1	-	3/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	S	130	1	-	5/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	D	553	1,4	-	5/8/9/11	-
1	MLY	M	63	1	-	4/8/9/11	-
1	MLY	M	295	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	S	348	1	-	5/8/9/11	-
1	MLY	S	367	1	-	2/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-
1	MLY	J	190	1	-	4/8/9/11	-
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	S	528	1	-	4/8/9/11	-
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	G	764	1	-	2/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-
1	MLY	M	553	1,4	-	4/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	J	837	1	-	6/8/9/11	-
1	MLY	J	30	1	-	3/8/9/11	-
1	MLY	M	837	1	-	6/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-
1	MLY	M	598	1	-	5/8/9/11	-
1	MLY	S	236	1	-	3/8/9/11	-
1	MLY	A	190	1	-	4/8/9/11	-
1	MLY	M	436	1	-	4/8/9/11	-
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	S	49	1	-	3/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-
1	MLY	S	59	1	-	3/8/9/11	-
1	MLY	D	130	1	-	5/8/9/11	-
1	MLY	M	87	1	-	2/8/9/11	-
1	MLY	M	415	1	-	3/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	S	107	1	-	2/8/9/11	-
1	MLY	S	681	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	G	353	1	-	4/8/9/11	-
1	MLY	M	107	1	-	2/8/9/11	-
1	MLY	M	59	1	-	3/8/9/11	-
1	MLY	S	613	1	-	3/8/9/11	-
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-
1	MLY	S	837	1	-	6/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	M	138	1	-	4/8/9/11	-
1	MLY	S	84	1	-	4/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	M	768	1	-	4/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	D	837	1	-	6/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	M	49	1	-	3/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	M	348	1	-	5/8/9/11	-
1	MLY	A	30	1	-	3/8/9/11	-
1	MLY	D	827	1	-	1/8/9/11	-
1	MLY	M	369	1	-	2/8/9/11	-
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	S	385	1	-	2/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	G	827	1	-	1/8/9/11	-
1	MLY	S	415	1	-	3/8/9/11	-
1	MLY	S	19	1	-	4/8/9/11	-
1	MLY	D	49	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	M	613	1	-	3/8/9/11	-
1	MLY	G	553	1,4	-	4/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-
1	MLY	M	504	1	-	4/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	S	827	1	-	1/8/9/11	-
1	MLY	S	35	1	-	3/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	S	138	1	-	4/8/9/11	-
1	MLY	G	190	1	-	4/8/9/11	-
1	MLY	M	827	1	-	1/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	M	84	1	-	4/8/9/11	-
1	MLY	A	353	1	-	4/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	D	613	1	-	3/8/9/11	-
1	MLY	S	248	1	-	6/8/9/11	-
1	MLY	M	486	1	-	2/8/9/11	-
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	A	837	1	-	6/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-
1	MLY	G	19	1	-	4/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	G	551	1	-	3/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-
1	MLY	M	236	1	-	3/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	A	553	1,4	-	4/8/9/11	-
1	MLY	M	55	1	-	6/8/9/11	-
1	MLY	S	617	1	-	2/8/9/11	-
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	M	130	1	-	5/8/9/11	-
1	MLY	M	353	1	-	4/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	S	486	1	-	2/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	M	385	1	-	2/8/9/11	-
1	MLY	M	681	1	-	4/8/9/11	-
1	MLY	S	768	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	M	296	1	-	4/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	G	528	1	-	4/8/9/11	-
1	MLY	M	782	1	-	6/8/9/11	-
1	MLY	M	19	1	-	4/8/9/11	-
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	M	764	1	-	2/8/9/11	-
1	MLY	S	505	1	-	5/8/9/11	-
1	MLY	S	551	1	-	3/8/9/11	-
1	MLY	S	659	1	-	3/8/9/11	-
1	MLY	M	431	1	-	4/8/9/11	-
1	MLY	M	248	1	-	6/8/9/11	-
1	MLY	G	617	1	-	2/8/9/11	-
1	MLY	M	839	1	-	3/8/9/11	-
1	MLY	S	55	1	-	6/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	M	35	1	-	3/8/9/11	-
1	MLY	M	833	1	-	6/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	J	528	1	-	4/8/9/11	-
1	MLY	S	436	1	-	4/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	D	190	1	-	4/8/9/11	-
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	A	617	1	-	2/8/9/11	-
1	MLY	S	296	1	-	4/8/9/11	-
1	MLY	S	353	1	-	4/8/9/11	-
1	MLY	S	369	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	A	613	1	-	3/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	G	30	1	-	3/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	D	617	1	-	2/8/9/11	-
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	M	551	1	-	3/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-
1	MLY	J	617	1	-	2/8/9/11	-
1	MLY	M	367	1	-	2/8/9/11	-
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	M	600	1	-	3/8/9/11	-
1	MLY	S	598	1	-	5/8/9/11	-
1	MLY	J	553	1,4	-	4/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	S	504	1	-	4/8/9/11	-
1	MLY	G	839	1	-	3/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	S	190	1	-	4/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	S	295	1	-	2/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	S	30	1	-	3/8/9/11	-
1	MLY	S	600	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	S	782	1	-	6/8/9/11	-
1	MLY	A	827	1	-	1/8/9/11	-
1	MLY	A	528	1	-	4/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	S	553	1	-	4/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	S	833	1	-	6/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	M	272	1	-	3/8/9/11	-
1	MLY	M	617	1	-	2/8/9/11	-
1	MLY	G	613	1	-	3/8/9/11	-
1	MLY	S	87	1	-	2/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	M	505	1	-	5/8/9/11	-
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	S	839	1	-	3/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	J	827	1	-	1/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-

All (77) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.34	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	138	MLY	CB-CA	-3.25	1.48	1.53
1	J	138	MLY	CB-CA	-3.22	1.48	1.53
1	M	138	MLY	CB-CA	-3.21	1.48	1.53
1	S	138	MLY	CB-CA	-3.18	1.48	1.53
1	A	138	MLY	CB-CA	-3.18	1.48	1.53
1	D	19	MLY	CB-CA	-2.81	1.49	1.53
1	G	87	MLY	CB-CA	-2.77	1.49	1.53
1	J	19	MLY	CB-CA	-2.77	1.49	1.53
1	S	19	MLY	CB-CA	-2.75	1.49	1.53
1	S	87	MLY	CB-CA	-2.74	1.49	1.53
1	M	19	MLY	CB-CA	-2.72	1.49	1.53
1	J	87	MLY	CB-CA	-2.69	1.49	1.53
1	A	87	MLY	CB-CA	-2.69	1.49	1.53
1	G	19	MLY	CB-CA	-2.69	1.49	1.53
1	M	87	MLY	CB-CA	-2.66	1.49	1.53
1	D	436	MLY	CB-CA	-2.63	1.49	1.53
1	A	19	MLY	CB-CA	-2.61	1.49	1.53
1	M	436	MLY	CB-CA	-2.59	1.49	1.53
1	S	49	MLY	CB-CA	-2.58	1.49	1.53
1	D	87	MLY	CB-CA	-2.55	1.49	1.53
1	J	436	MLY	CB-CA	-2.53	1.49	1.53
1	G	436	MLY	CB-CA	-2.51	1.49	1.53
1	S	436	MLY	CB-CA	-2.50	1.49	1.53
1	A	436	MLY	CB-CA	-2.48	1.49	1.53
1	D	49	MLY	CB-CA	-2.47	1.49	1.53
1	M	49	MLY	CB-CA	-2.46	1.49	1.53
1	J	49	MLY	CB-CA	-2.45	1.49	1.53
1	G	49	MLY	CB-CA	-2.44	1.49	1.53
1	M	272	MLY	CB-CA	-2.44	1.49	1.53
1	A	49	MLY	CB-CA	-2.41	1.49	1.53
1	A	272	MLY	CB-CA	-2.39	1.49	1.53
1	S	272	MLY	CB-CA	-2.39	1.49	1.53
1	J	272	MLY	CB-CA	-2.37	1.50	1.53
1	G	272	MLY	CB-CA	-2.32	1.50	1.53
1	A	236	MLY	CA-N	-2.29	1.41	1.48
1	M	236	MLY	CA-N	-2.28	1.41	1.48
1	D	236	MLY	CA-N	-2.27	1.41	1.48
1	G	190	MLY	CB-CA	-2.25	1.50	1.53
1	J	190	MLY	CB-CA	-2.25	1.50	1.53
1	J	236	MLY	CA-N	-2.25	1.41	1.48
1	S	190	MLY	CB-CA	-2.25	1.50	1.53
1	G	236	MLY	CA-N	-2.25	1.41	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	236	MLY	CA-N	-2.24	1.41	1.48
1	A	190	MLY	CB-CA	-2.23	1.50	1.53
1	D	272	MLY	CB-CA	-2.23	1.50	1.53
1	J	833	MLY	CB-CA	-2.21	1.50	1.53
1	S	385	MLY	CB-CA	-2.20	1.50	1.53
1	S	833	MLY	CB-CA	-2.19	1.50	1.53
1	M	385	MLY	CB-CA	-2.19	1.50	1.53
1	J	385	MLY	CB-CA	-2.19	1.50	1.53
1	M	190	MLY	CB-CA	-2.18	1.50	1.53
1	G	833	MLY	CA-N	-2.17	1.42	1.48
1	D	833	MLY	CA-N	-2.14	1.42	1.48
1	D	190	MLY	CB-CA	-2.10	1.50	1.53
1	A	190	MLY	CA-N	-2.10	1.42	1.48
1	M	833	MLY	CB-CA	-2.10	1.50	1.53
1	M	190	MLY	CA-N	-2.10	1.42	1.48
1	A	385	MLY	CB-CA	-2.09	1.50	1.53
1	G	385	MLY	CB-CA	-2.09	1.50	1.53
1	G	659	MLY	CA-N	-2.09	1.42	1.48
1	D	190	MLY	CA-N	-2.09	1.42	1.48
1	S	190	MLY	CA-N	-2.09	1.42	1.48
1	A	833	MLY	CA-N	-2.08	1.42	1.48
1	G	190	MLY	CA-N	-2.07	1.42	1.48
1	J	505	MLY	CB-CA	-2.06	1.50	1.53
1	J	190	MLY	CA-N	-2.06	1.42	1.48
1	D	659	MLY	CA-N	-2.06	1.42	1.48
1	A	659	MLY	CA-N	-2.04	1.42	1.48
1	M	505	MLY	CB-CA	-2.04	1.50	1.53
1	A	598	MLY	CB-CA	-2.04	1.50	1.53
1	D	385	MLY	CB-CA	-2.03	1.50	1.53
1	S	505	MLY	CB-CA	-2.03	1.50	1.53
1	M	833	MLY	CA-N	-2.02	1.42	1.48
1	M	598	MLY	CB-CA	-2.02	1.50	1.53
1	S	659	MLY	CA-N	-2.01	1.42	1.48
1	S	617	MLY	CB-CA	-2.00	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

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

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Mol	Chain	Res	Type	Atoms
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	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
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

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Mol	Chain	Res	Type	Atoms
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
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	S	19	MLY	C-CA-CB-CG
1	S	49	MLY	N-CA-CB-CG
1	S	49	MLY	C-CA-CB-CG
1	S	55	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	S	55	MLY	C-CA-CB-CG
1	S	84	MLY	C-CA-CB-CG
1	S	130	MLY	C-CA-CB-CG
1	S	248	MLY	N-CA-CB-CG
1	S	248	MLY	C-CA-CB-CG
1	S	348	MLY	N-CA-CB-CG
1	S	348	MLY	C-CA-CB-CG
1	S	436	MLY	C-CA-CB-CG
1	S	486	MLY	C-CA-CB-CG
1	S	505	MLY	N-CA-CB-CG
1	S	505	MLY	C-CA-CB-CG
1	S	528	MLY	C-CA-CB-CG
1	S	551	MLY	C-CA-CB-CG
1	S	553	MLY	C-CA-CB-CG
1	S	598	MLY	N-CA-CB-CG
1	S	598	MLY	C-CA-CB-CG
1	S	613	MLY	N-CA-CB-CG
1	S	613	MLY	C-CA-CB-CG
1	S	681	MLY	C-CA-CB-CG
1	S	782	MLY	C-CA-CB-CG
1	S	782	MLY	O-C-CA-CB
1	A	84	MLY	CD-CE-NZ-CH1
1	A	248	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH2
1	A	367	MLY	CD-CE-NZ-CH2
1	A	431	MLY	CD-CE-NZ-CH2
1	A	600	MLY	CD-CE-NZ-CH2
1	A	764	MLY	CD-CE-NZ-CH1
1	A	764	MLY	CD-CE-NZ-CH2
1	A	782	MLY	CD-CE-NZ-CH2
1	A	833	MLY	CD-CE-NZ-CH1
1	A	833	MLY	CD-CE-NZ-CH2
1	A	837	MLY	CD-CE-NZ-CH2
1	D	55	MLY	CD-CE-NZ-CH2
1	D	84	MLY	CD-CE-NZ-CH1
1	D	248	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH2
1	D	431	MLY	CD-CE-NZ-CH2
1	D	600	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
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	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
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	55	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

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Mol	Chain	Res	Type	Atoms
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	S	55	MLY	CD-CE-NZ-CH2
1	S	84	MLY	CD-CE-NZ-CH1
1	S	248	MLY	CD-CE-NZ-CH1
1	S	296	MLY	CD-CE-NZ-CH1
1	S	296	MLY	CD-CE-NZ-CH2
1	S	367	MLY	CD-CE-NZ-CH2
1	S	431	MLY	CD-CE-NZ-CH2
1	S	600	MLY	CD-CE-NZ-CH2
1	S	764	MLY	CD-CE-NZ-CH1
1	S	764	MLY	CD-CE-NZ-CH2
1	S	782	MLY	CD-CE-NZ-CH2
1	S	833	MLY	CD-CE-NZ-CH1
1	S	833	MLY	CD-CE-NZ-CH2
1	S	837	MLY	CD-CE-NZ-CH2
1	A	295	MLY	CG-CD-CE-NZ
1	D	295	MLY	CG-CD-CE-NZ
1	G	295	MLY	CG-CD-CE-NZ
1	J	295	MLY	CG-CD-CE-NZ
1	M	295	MLY	CG-CD-CE-NZ
1	S	295	MLY	CG-CD-CE-NZ
1	A	659	MLY	CG-CD-CE-NZ
1	D	659	MLY	CG-CD-CE-NZ
1	G	659	MLY	CG-CD-CE-NZ
1	J	659	MLY	CG-CD-CE-NZ
1	M	659	MLY	CG-CD-CE-NZ
1	S	659	MLY	CG-CD-CE-NZ
1	A	35	MLY	CG-CD-CE-NZ
1	D	35	MLY	CG-CD-CE-NZ
1	G	35	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	M	35	MLY	CG-CD-CE-NZ
1	S	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

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Mol	Chain	Res	Type	Atoms
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
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

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Mol	Chain	Res	Type	Atoms
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
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	367	MLY	CD-CE-NZ-CH2
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

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Mol	Chain	Res	Type	Atoms
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
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	504	MLY	CD-CE-NZ-CH2
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	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

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Mol	Chain	Res	Type	Atoms
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
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	S	59	MLY	CD-CE-NZ-CH1
1	S	59	MLY	CD-CE-NZ-CH2
1	S	63	MLY	CD-CE-NZ-CH1
1	S	84	MLY	CD-CE-NZ-CH2
1	S	130	MLY	CD-CE-NZ-CH1
1	S	130	MLY	CD-CE-NZ-CH2
1	S	138	MLY	CD-CE-NZ-CH1
1	S	138	MLY	CD-CE-NZ-CH2
1	S	190	MLY	CD-CE-NZ-CH1
1	S	190	MLY	CD-CE-NZ-CH2
1	S	248	MLY	CD-CE-NZ-CH2
1	S	272	MLY	CD-CE-NZ-CH1
1	S	348	MLY	CD-CE-NZ-CH1
1	S	348	MLY	CD-CE-NZ-CH2
1	S	353	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	S	353	MLY	CD-CE-NZ-CH2
1	S	367	MLY	CD-CE-NZ-CH1
1	S	385	MLY	CD-CE-NZ-CH1
1	S	385	MLY	CD-CE-NZ-CH2
1	S	431	MLY	CD-CE-NZ-CH1
1	S	505	MLY	CD-CE-NZ-CH1
1	S	505	MLY	CD-CE-NZ-CH2
1	S	528	MLY	CD-CE-NZ-CH1
1	S	528	MLY	CD-CE-NZ-CH2
1	S	553	MLY	CD-CE-NZ-CH2
1	S	600	MLY	CD-CE-NZ-CH1
1	S	659	MLY	CD-CE-NZ-CH2
1	S	768	MLY	CD-CE-NZ-CH1
1	S	782	MLY	CD-CE-NZ-CH1
1	S	837	MLY	CD-CE-NZ-CH1
1	S	839	MLY	CD-CE-NZ-CH2
1	J	87	MLY	CG-CD-CE-NZ
1	A	87	MLY	CG-CD-CE-NZ
1	D	87	MLY	CG-CD-CE-NZ
1	G	87	MLY	CG-CD-CE-NZ
1	M	87	MLY	CG-CD-CE-NZ
1	S	87	MLY	CG-CD-CE-NZ
1	A	782	MLY	CG-CD-CE-NZ
1	D	782	MLY	CG-CD-CE-NZ
1	G	782	MLY	CG-CD-CE-NZ
1	J	782	MLY	CG-CD-CE-NZ
1	M	782	MLY	CG-CD-CE-NZ
1	S	782	MLY	CG-CD-CE-NZ
1	A	138	MLY	CG-CD-CE-NZ
1	D	138	MLY	CG-CD-CE-NZ
1	G	138	MLY	CG-CD-CE-NZ
1	M	138	MLY	CG-CD-CE-NZ
1	S	138	MLY	CG-CD-CE-NZ
1	J	138	MLY	CG-CD-CE-NZ
1	A	84	MLY	CG-CD-CE-NZ
1	A	130	MLY	CG-CD-CE-NZ
1	D	130	MLY	CG-CD-CE-NZ
1	G	84	MLY	CG-CD-CE-NZ
1	G	130	MLY	CG-CD-CE-NZ
1	J	84	MLY	CG-CD-CE-NZ
1	J	130	MLY	CG-CD-CE-NZ
1	M	84	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	M	130	MLY	CG-CD-CE-NZ
1	S	84	MLY	CG-CD-CE-NZ
1	S	130	MLY	CG-CD-CE-NZ
1	A	272	MLY	CD-CE-NZ-CH2
1	A	369	MLY	CD-CE-NZ-CH2
1	A	504	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH2
1	D	272	MLY	CD-CE-NZ-CH2
1	D	369	MLY	CD-CE-NZ-CH2
1	D	504	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH2
1	G	272	MLY	CD-CE-NZ-CH2
1	G	369	MLY	CD-CE-NZ-CH2
1	G	504	MLY	CD-CE-NZ-CH1
1	G	768	MLY	CD-CE-NZ-CH2
1	J	369	MLY	CD-CE-NZ-CH2
1	J	504	MLY	CD-CE-NZ-CH1
1	J	768	MLY	CD-CE-NZ-CH2
1	M	369	MLY	CD-CE-NZ-CH2
1	M	504	MLY	CD-CE-NZ-CH1
1	M	504	MLY	CD-CE-NZ-CH2
1	M	768	MLY	CD-CE-NZ-CH2
1	S	369	MLY	CD-CE-NZ-CH2
1	S	504	MLY	CD-CE-NZ-CH2
1	S	768	MLY	CD-CE-NZ-CH2
1	D	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	681	MLY	CG-CD-CE-NZ
1	M	681	MLY	CG-CD-CE-NZ
1	S	504	MLY	CG-CD-CE-NZ
1	S	681	MLY	CG-CD-CE-NZ
1	D	504	MLY	CG-CD-CE-NZ
1	J	504	MLY	CG-CD-CE-NZ
1	M	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

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Mol	Chain	Res	Type	Atoms
1	M	598	MLY	CG-CD-CE-NZ
1	S	598	MLY	CG-CD-CE-NZ
1	D	598	MLY	CG-CD-CE-NZ
1	A	63	MLY	CD-CE-NZ-CH2
1	D	63	MLY	CD-CE-NZ-CH2
1	D	87	MLY	CD-CE-NZ-CH1
1	G	63	MLY	CD-CE-NZ-CH2
1	G	504	MLY	CD-CE-NZ-CH2
1	J	63	MLY	CD-CE-NZ-CH2
1	J	87	MLY	CD-CE-NZ-CH1
1	J	272	MLY	CD-CE-NZ-CH2
1	M	63	MLY	CD-CE-NZ-CH2
1	M	87	MLY	CD-CE-NZ-CH1
1	S	63	MLY	CD-CE-NZ-CH2
1	S	87	MLY	CD-CE-NZ-CH1
1	S	272	MLY	CD-CE-NZ-CH2
1	A	87	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CD-CE-NZ-CH2
1	A	504	MLY	CD-CE-NZ-CH1
1	A	553	MLY	CD-CE-NZ-CH1
1	D	55	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH1
1	D	415	MLY	CD-CE-NZ-CH2
1	D	553	MLY	CD-CE-NZ-CH1
1	G	55	MLY	CD-CE-NZ-CH1
1	G	87	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH1
1	J	55	MLY	CD-CE-NZ-CH1
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	S	55	MLY	CD-CE-NZ-CH1
1	S	415	MLY	CD-CE-NZ-CH1
1	S	415	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	S	504	MLY	CD-CE-NZ-CH1
1	S	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	S	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	S	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
1	S	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	S	504	MLY	CA-CB-CG-CD
1	S	768	MLY	CA-CB-CG-CD
1	D	49	MLY	CE-CD-CG-CB
1	A	49	MLY	CE-CD-CG-CB
1	A	505	MLY	CE-CD-CG-CB
1	D	505	MLY	CE-CD-CG-CB
1	G	49	MLY	CE-CD-CG-CB
1	G	505	MLY	CE-CD-CG-CB
1	J	49	MLY	CE-CD-CG-CB
1	J	505	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	M	49	MLY	CE-CD-CG-CB
1	M	505	MLY	CE-CD-CG-CB
1	S	49	MLY	CE-CD-CG-CB
1	S	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	30	MLY	CE-CD-CG-CB
1	M	272	MLY	CE-CD-CG-CB
1	M	296	MLY	CE-CD-CG-CB
1	S	272	MLY	CE-CD-CG-CB
1	S	296	MLY	CE-CD-CG-CB
1	A	30	MLY	CE-CD-CG-CB
1	A	296	MLY	CE-CD-CG-CB
1	D	296	MLY	CE-CD-CG-CB
1	G	30	MLY	CE-CD-CG-CB
1	J	30	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	M	353	MLY	CE-CD-CG-CB
1	S	30	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH1
1	A	839	MLY	CD-CE-NZ-CH1
1	D	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	S	107	MLY	CD-CE-NZ-CH1
1	S	839	MLY	CD-CE-NZ-CH1
1	A	190	MLY	CE-CD-CG-CB
1	D	30	MLY	CE-CD-CG-CB
1	D	190	MLY	CE-CD-CG-CB
1	G	190	MLY	CE-CD-CG-CB
1	M	190	MLY	CE-CD-CG-CB
1	S	190	MLY	CE-CD-CG-CB
1	S	353	MLY	CE-CD-CG-CB
1	A	353	MLY	CE-CD-CG-CB
1	D	353	MLY	CE-CD-CG-CB
1	G	353	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	681	MLY	CE-CD-CG-CB
1	G	681	MLY	CE-CD-CG-CB
1	A	681	MLY	CE-CD-CG-CB
1	J	681	MLY	CE-CD-CG-CB
1	M	681	MLY	CE-CD-CG-CB
1	S	681	MLY	CE-CD-CG-CB
1	J	190	MLY	CG-CD-CE-NZ
1	S	190	MLY	CG-CD-CE-NZ
1	D	768	MLY	CE-CD-CG-CB
1	D	190	MLY	CG-CD-CE-NZ
1	M	190	MLY	CG-CD-CE-NZ
1	J	768	MLY	CE-CD-CG-CB
1	S	768	MLY	CE-CD-CG-CB
1	G	190	MLY	CG-CD-CE-NZ
1	A	768	MLY	CE-CD-CG-CB
1	G	768	MLY	CE-CD-CG-CB
1	M	768	MLY	CE-CD-CG-CB
1	A	190	MLY	CG-CD-CE-NZ
1	A	369	MLY	CE-CD-CG-CB
1	D	782	MLY	CE-CD-CG-CB
1	G	369	MLY	CE-CD-CG-CB
1	A	782	MLY	CE-CD-CG-CB
1	D	369	MLY	CE-CD-CG-CB
1	G	782	MLY	CE-CD-CG-CB
1	J	369	MLY	CE-CD-CG-CB
1	J	782	MLY	CE-CD-CG-CB
1	M	369	MLY	CE-CD-CG-CB
1	S	782	MLY	CE-CD-CG-CB
1	D	659	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH1
1	G	839	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH2
1	J	659	MLY	CD-CE-NZ-CH1
1	J	839	MLY	CD-CE-NZ-CH1
1	M	107	MLY	CD-CE-NZ-CH2
1	M	659	MLY	CD-CE-NZ-CH1
1	M	839	MLY	CD-CE-NZ-CH1
1	S	107	MLY	CD-CE-NZ-CH2
1	S	659	MLY	CD-CE-NZ-CH1
1	S	369	MLY	CE-CD-CG-CB
1	M	782	MLY	CE-CD-CG-CB
1	G	415	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	J	415	MLY	CA-CB-CG-CD
1	A	415	MLY	CA-CB-CG-CD
1	D	415	MLY	CA-CB-CG-CD
1	M	415	MLY	CA-CB-CG-CD
1	S	415	MLY	CA-CB-CG-CD
1	A	107	MLY	CD-CE-NZ-CH2
1	A	236	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH1
1	D	107	MLY	CD-CE-NZ-CH2
1	D	236	MLY	CD-CE-NZ-CH1
1	G	107	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH1
1	J	236	MLY	CD-CE-NZ-CH1
1	M	236	MLY	CD-CE-NZ-CH1
1	S	236	MLY	CD-CE-NZ-CH1
1	A	55	MLY	CG-CD-CE-NZ
1	J	55	MLY	CG-CD-CE-NZ
1	D	833	MLY	CE-CD-CG-CB
1	G	833	MLY	CE-CD-CG-CB
1	J	833	MLY	CE-CD-CG-CB
1	S	833	MLY	CE-CD-CG-CB
1	D	55	MLY	CG-CD-CE-NZ
1	M	55	MLY	CG-CD-CE-NZ
1	S	55	MLY	CG-CD-CE-NZ
1	A	833	MLY	CE-CD-CG-CB
1	M	833	MLY	CE-CD-CG-CB
1	G	55	MLY	CG-CD-CE-NZ
1	D	617	MLY	CE-CD-CG-CB
1	G	617	MLY	CE-CD-CG-CB
1	J	617	MLY	CE-CD-CG-CB
1	M	617	MLY	CE-CD-CG-CB
1	A	436	MLY	CA-CB-CG-CD
1	D	436	MLY	CA-CB-CG-CD
1	G	436	MLY	CA-CB-CG-CD
1	J	436	MLY	CA-CB-CG-CD
1	M	436	MLY	CA-CB-CG-CD
1	S	436	MLY	CA-CB-CG-CD
1	S	617	MLY	CE-CD-CG-CB
1	A	617	MLY	CE-CD-CG-CB
1	A	551	MLY	CE-CD-CG-CB
1	D	551	MLY	CE-CD-CG-CB
1	G	551	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	J	551	MLY	CE-CD-CG-CB
1	M	551	MLY	CE-CD-CG-CB
1	S	551	MLY	CE-CD-CG-CB
1	G	59	MLY	CE-CD-CG-CB
1	A	59	MLY	CE-CD-CG-CB
1	A	553	MLY	CE-CD-CG-CB
1	D	55	MLY	CE-CD-CG-CB
1	D	59	MLY	CE-CD-CG-CB
1	J	59	MLY	CE-CD-CG-CB
1	J	553	MLY	CE-CD-CG-CB
1	M	553	MLY	CE-CD-CG-CB
1	S	553	MLY	CE-CD-CG-CB
1	D	553	MLY	CE-CD-CG-CB
1	G	55	MLY	CE-CD-CG-CB
1	G	553	MLY	CE-CD-CG-CB
1	J	55	MLY	CE-CD-CG-CB
1	M	55	MLY	CE-CD-CG-CB
1	M	59	MLY	CE-CD-CG-CB
1	S	55	MLY	CE-CD-CG-CB
1	S	59	MLY	CE-CD-CG-CB
1	D	528	MLY	CG-CD-CE-NZ
1	G	528	MLY	CG-CD-CE-NZ
1	A	55	MLY	CE-CD-CG-CB
1	A	528	MLY	CG-CD-CE-NZ
1	J	528	MLY	CG-CD-CE-NZ
1	M	528	MLY	CG-CD-CE-NZ
1	S	528	MLY	CG-CD-CE-NZ
1	M	248	MLY	CG-CD-CE-NZ
1	S	248	MLY	CG-CD-CE-NZ
1	A	248	MLY	CG-CD-CE-NZ
1	G	248	MLY	CG-CD-CE-NZ
1	J	248	MLY	CG-CD-CE-NZ
1	D	248	MLY	CG-CD-CE-NZ
1	J	431	MLY	CE-CD-CG-CB
1	M	431	MLY	CE-CD-CG-CB
1	A	431	MLY	CE-CD-CG-CB
1	S	431	MLY	CE-CD-CG-CB
1	G	248	MLY	CE-CD-CG-CB
1	D	431	MLY	CE-CD-CG-CB
1	G	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	S	248	MLY	CE-CD-CG-CB
1	D	248	MLY	CE-CD-CG-CB
1	M	248	MLY	CE-CD-CG-CB
1	D	35	MLY	CE-CD-CG-CB
1	S	35	MLY	CE-CD-CG-CB
1	A	35	MLY	CE-CD-CG-CB
1	G	35	MLY	CE-CD-CG-CB
1	J	35	MLY	CE-CD-CG-CB
1	M	35	MLY	CE-CD-CG-CB
1	A	431	MLY	CA-CB-CG-CD
1	D	431	MLY	CA-CB-CG-CD
1	G	431	MLY	CA-CB-CG-CD
1	J	431	MLY	CA-CB-CG-CD
1	M	431	MLY	CA-CB-CG-CD
1	S	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	S	837	MLY	CA-CB-CG-CD
1	A	600	MLY	CE-CD-CG-CB
1	G	598	MLY	CE-CD-CG-CB
1	A	436	MLY	CE-CD-CG-CB
1	A	598	MLY	CE-CD-CG-CB
1	D	436	MLY	CE-CD-CG-CB
1	D	598	MLY	CE-CD-CG-CB
1	D	600	MLY	CE-CD-CG-CB
1	G	436	MLY	CE-CD-CG-CB
1	G	600	MLY	CE-CD-CG-CB
1	J	436	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	S	436	MLY	CE-CD-CG-CB
1	S	598	MLY	CE-CD-CG-CB
1	S	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

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Mol	Chain	Res	Type	Atoms
1	M	236	MLY	CA-CB-CG-CD
1	S	236	MLY	CA-CB-CG-CD
1	G	486	MLY	CE-CD-CG-CB
1	S	486	MLY	CE-CD-CG-CB
1	D	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	M	833	MLY	CA-CB-CG-CD
1	S	833	MLY	CA-CB-CG-CD
1	J	138	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	A	839	MLY	CE-CD-CG-CB
1	D	839	MLY	CE-CD-CG-CB
1	S	839	MLY	CE-CD-CG-CB
1	A	138	MLY	CA-CB-CG-CD
1	A	296	MLY	CA-CB-CG-CD
1	D	138	MLY	CA-CB-CG-CD
1	G	138	MLY	CA-CB-CG-CD
1	J	296	MLY	CA-CB-CG-CD
1	M	138	MLY	CA-CB-CG-CD
1	M	296	MLY	CA-CB-CG-CD
1	S	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

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Mol	Chain	Res	Type	Atoms
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	S	63	MLY	C-CA-CB-CG
1	S	353	MLY	C-CA-CB-CG
1	S	827	MLY	C-CA-CB-CG
1	S	833	MLY	C-CA-CB-CG
1	S	296	MLY	CA-CB-CG-CD
1	D	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	348	MLY	N-CA-CB-CG
1	A	436	MLY	N-CA-CB-CG
1	A	681	MLY	N-CA-CB-CG
1	A	833	MLY	N-CA-CB-CG
1	A	837	MLY	N-CA-CB-CG
1	D	35	MLY	N-CA-CB-CG
1	D	63	MLY	N-CA-CB-CG
1	D	130	MLY	N-CA-CB-CG
1	D	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	348	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

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Mol	Chain	Res	Type	Atoms
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	S	35	MLY	N-CA-CB-CG
1	S	63	MLY	N-CA-CB-CG
1	S	130	MLY	N-CA-CB-CG
1	S	436	MLY	N-CA-CB-CG
1	S	681	MLY	N-CA-CB-CG
1	S	833	MLY	N-CA-CB-CG
1	S	837	MLY	N-CA-CB-CG
1	J	19	MLY	CA-CB-CG-CD
1	M	19	MLY	CA-CB-CG-CD
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	S	19	MLY	CA-CB-CG-CD
1	D	837	MLY	CE-CD-CG-CB
1	A	837	MLY	CE-CD-CG-CB
1	S	837	MLY	CE-CD-CG-CB
1	G	837	MLY	CE-CD-CG-CB
1	A	19	MLY	CE-CD-CG-CB
1	J	837	MLY	CE-CD-CG-CB
1	M	837	MLY	CE-CD-CG-CB
1	S	19	MLY	CE-CD-CG-CB
1	D	19	MLY	CE-CD-CG-CB
1	J	19	MLY	CE-CD-CG-CB
1	M	19	MLY	CE-CD-CG-CB
1	G	19	MLY	CE-CD-CG-CB
1	J	613	MLY	CE-CD-CG-CB
1	D	613	MLY	CE-CD-CG-CB
1	G	613	MLY	CE-CD-CG-CB
1	M	613	MLY	CE-CD-CG-CB
1	S	613	MLY	CE-CD-CG-CB
1	A	613	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
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	S	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	S	598	MLY	CD-CE-NZ-CH2
1	M	598	MLY	CD-CE-NZ-CH2
1	J	348	MLY	CE-CD-CG-CB
1	M	348	MLY	CE-CD-CG-CB
1	S	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
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	S	30	MLY	C-CA-CB-CG
1	S	617	MLY	C-CA-CB-CG
1	S	837	MLY	C-CA-CB-CG
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	S	30	MLY	CA-CB-CG-CD

There are no ring outliers.

190 monomers are involved in 828 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	598	MLY	1	0
1	A	87	MLY	3	0
1	S	272	MLY	1	0
1	M	190	MLY	2	0
1	A	248	MLY	2	0
1	A	839	MLY	9	0
1	S	764	MLY	29	0
1	D	295	MLY	6	0
1	D	30	MLY	1	0
1	D	528	MLY	3	0
1	J	505	MLY	9	0
1	G	837	MLY	1	0
1	D	782	MLY	71	0
1	M	30	MLY	1	0
1	M	528	MLY	3	0
1	S	63	MLY	3	0
1	J	296	MLY	3	0
1	M	659	MLY	2	0
1	A	436	MLY	3	0
1	D	839	MLY	7	0
1	A	768	MLY	12	0
1	J	839	MLY	15	0
1	G	369	MLY	1	0
1	A	63	MLY	3	0
1	D	553	MLY	16	0
1	M	63	MLY	4	0
1	M	295	MLY	6	0
1	S	348	MLY	6	0
1	J	190	MLY	2	0
1	G	600	MLY	1	0
1	S	528	MLY	3	0
1	A	764	MLY	11	0
1	D	486	MLY	3	0
1	D	138	MLY	2	0
1	G	764	MLY	8	0
1	J	659	MLY	2	0
1	M	553	MLY	17	0
1	G	138	MLY	2	0
1	J	837	MLY	1	0
1	J	30	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	M	837	MLY	1	0
1	D	768	MLY	1	0
1	M	598	MLY	1	0
1	A	190	MLY	2	0
1	M	436	MLY	2	0
1	D	63	MLY	4	0
1	S	49	MLY	3	0
1	D	55	MLY	1	0
1	A	369	MLY	1	0
1	S	59	MLY	2	0
1	M	87	MLY	3	0
1	M	415	MLY	1	0
1	S	107	MLY	3	0
1	G	415	MLY	1	0
1	M	107	MLY	3	0
1	M	59	MLY	2	0
1	G	248	MLY	2	0
1	S	837	MLY	1	0
1	A	551	MLY	2	0
1	M	138	MLY	2	0
1	S	84	MLY	14	0
1	M	768	MLY	1	0
1	A	59	MLY	2	0
1	J	782	MLY	1	0
1	D	837	MLY	1	0
1	J	248	MLY	2	0
1	A	504	MLY	4	0
1	M	49	MLY	3	0
1	A	348	MLY	5	0
1	J	504	MLY	1	0
1	M	348	MLY	6	0
1	A	30	MLY	1	0
1	D	827	MLY	3	0
1	M	369	MLY	1	0
1	G	348	MLY	4	0
1	G	827	MLY	1	0
1	S	415	MLY	1	0
1	D	49	MLY	3	0
1	G	553	MLY	26	0
1	A	49	MLY	3	0
1	A	107	MLY	3	0
1	G	295	MLY	7	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	J	600	MLY	1	0
1	M	504	MLY	1	0
1	A	296	MLY	3	0
1	S	138	MLY	2	0
1	G	190	MLY	2	0
1	G	768	MLY	9	0
1	M	84	MLY	23	0
1	J	107	MLY	3	0
1	G	272	MLY	1	0
1	S	248	MLY	2	0
1	M	486	MLY	3	0
1	J	415	MLY	1	0
1	D	87	MLY	3	0
1	A	837	MLY	1	0
1	D	415	MLY	1	0
1	A	55	MLY	1	0
1	A	486	MLY	3	0
1	D	296	MLY	3	0
1	G	486	MLY	3	0
1	G	55	MLY	1	0
1	A	138	MLY	2	0
1	D	248	MLY	2	0
1	G	659	MLY	2	0
1	J	63	MLY	4	0
1	J	295	MLY	6	0
1	J	486	MLY	3	0
1	A	553	MLY	17	0
1	M	55	MLY	1	0
1	S	617	MLY	1	0
1	D	436	MLY	3	0
1	J	55	MLY	1	0
1	D	348	MLY	6	0
1	J	436	MLY	2	0
1	S	486	MLY	3	0
1	G	436	MLY	2	0
1	D	600	MLY	1	0
1	J	348	MLY	5	0
1	M	296	MLY	3	0
1	J	59	MLY	2	0
1	G	528	MLY	3	0
1	M	782	MLY	3	0
1	M	764	MLY	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	S	505	MLY	8	0
1	S	659	MLY	2	0
1	M	248	MLY	2	0
1	G	617	MLY	1	0
1	M	839	MLY	7	0
1	S	55	MLY	1	0
1	G	598	MLY	1	0
1	G	49	MLY	3	0
1	A	272	MLY	1	0
1	M	35	MLY	13	0
1	G	504	MLY	1	0
1	A	415	MLY	1	0
1	J	528	MLY	3	0
1	S	436	MLY	2	0
1	A	505	MLY	24	0
1	D	190	MLY	2	0
1	A	295	MLY	6	0
1	A	782	MLY	8	0
1	A	617	MLY	1	0
1	S	296	MLY	3	0
1	S	369	MLY	1	0
1	D	59	MLY	2	0
1	D	764	MLY	6	0
1	G	30	MLY	1	0
1	G	107	MLY	3	0
1	G	59	MLY	2	0
1	D	272	MLY	1	0
1	D	617	MLY	1	0
1	G	782	MLY	1	0
1	M	551	MLY	1	0
1	J	617	MLY	1	0
1	D	598	MLY	1	0
1	G	87	MLY	3	0
1	M	600	MLY	1	0
1	S	598	MLY	1	0
1	J	553	MLY	27	0
1	S	504	MLY	1	0
1	G	839	MLY	4	0
1	S	190	MLY	2	0
1	J	598	MLY	1	0
1	J	87	MLY	3	0
1	S	295	MLY	6	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	659	MLY	2	0
1	G	296	MLY	2	0
1	S	30	MLY	1	0
1	S	600	MLY	1	0
1	D	107	MLY	3	0
1	S	782	MLY	1	0
1	A	528	MLY	3	0
1	S	553	MLY	3	0
1	D	659	MLY	2	0
1	D	551	MLY	2	0
1	J	49	MLY	4	0
1	M	272	MLY	1	0
1	M	617	MLY	1	0
1	S	87	MLY	3	0
1	J	764	MLY	6	0
1	M	505	MLY	2	0
1	J	84	MLY	44	0
1	J	272	MLY	1	0
1	G	84	MLY	16	0
1	S	839	MLY	15	0
1	G	63	MLY	4	0
1	J	768	MLY	9	0
1	A	600	MLY	1	0
1	J	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	S	8
1	M	5
1	J	4
1	D	4
1	A	4
1	G	3
3	C	1
3	F	1
3	I	1
3	L	1
3	O	1
3	U	1
2	H	1
2	B	1
2	E	1
2	K	1
2	N	1
2	T	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	5.58
1	D	769:ALA	C	770:GLY	N	5.32
1	G	769:ALA	C	770:GLY	N	4.88
1	M	769:ALA	C	770:GLY	N	3.92
1	A	709:LYS	C	710:GLY	N	3.14
1	D	709:LYS	C	710:GLY	N	2.89
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	U	4:LYS	C	5:ALA	N	2.61
1	A	769:ALA	C	770:GLY	N	2.49
1	S	806:MET	C	807:VAL	N	2.47
1	S	770:GLY	C	771:LEU	N	2.43
1	S	709:LYS	C	710:GLY	N	2.35
1	S	786:ILE	C	787:ILE	N	2.14
1	M	806:MET	C	807:VAL	N	2.12
1	M	786:ILE	C	787:ILE	N	2.02
1	J	709:LYS	C	710:GLY	N	1.64
1	S	769:ALA	C	770:GLY	N	1.62
1	S	785:GLU	C	786:ILE	N	1.17

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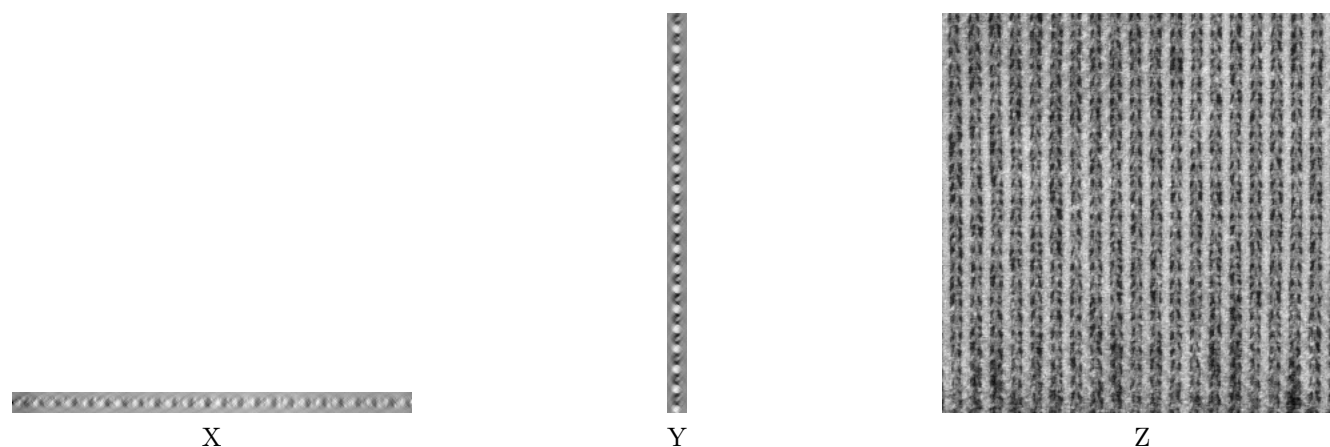
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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H	140:PHE	C	141:PRO	N	1.10
1	B	140:PHE	C	141:PRO	N	1.09
1	E	140:PHE	C	141:PRO	N	1.09
1	K	140:PHE	C	141:PRO	N	1.09
1	N	140:PHE	C	141:PRO	N	1.09
1	T	140:PHE	C	141:PRO	N	1.09
1	A	637:LYS	C	638:GLY	N	1.06
1	D	637:LYS	C	638:GLY	N	1.06
1	G	637:LYS	C	638:GLY	N	1.06
1	J	637:LYS	C	638:GLY	N	1.06
1	M	637:LYS	C	638:GLY	N	1.06
1	S	637:LYS	C	638:GLY	N	1.06
1	A	649:VAL	C	650:SER	N	1.03
1	D	649:VAL	C	650:SER	N	1.03
1	G	649:VAL	C	650:SER	N	1.03
1	J	649:VAL	C	650:SER	N	1.03
1	M	649:VAL	C	650:SER	N	1.03
1	S	649:VAL	C	650:SER	N	1.03

6 Tomogram visualisation [i](#)

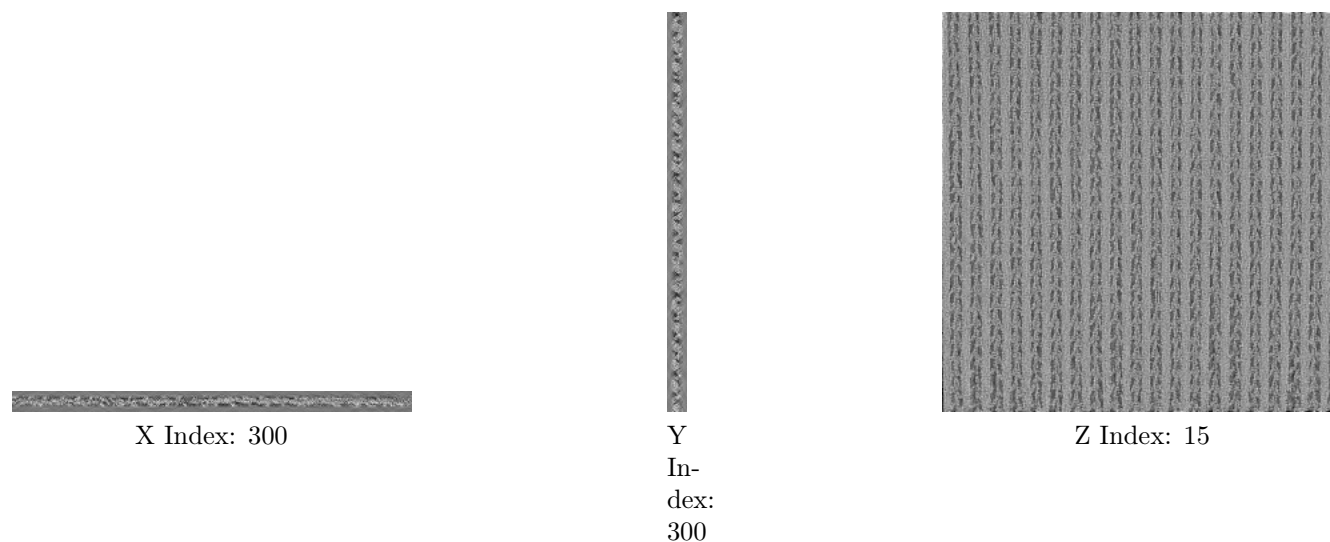
This section contains visualisations of the EMDB entry EMD-1001. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

6.1 Orthogonal projections [i](#)



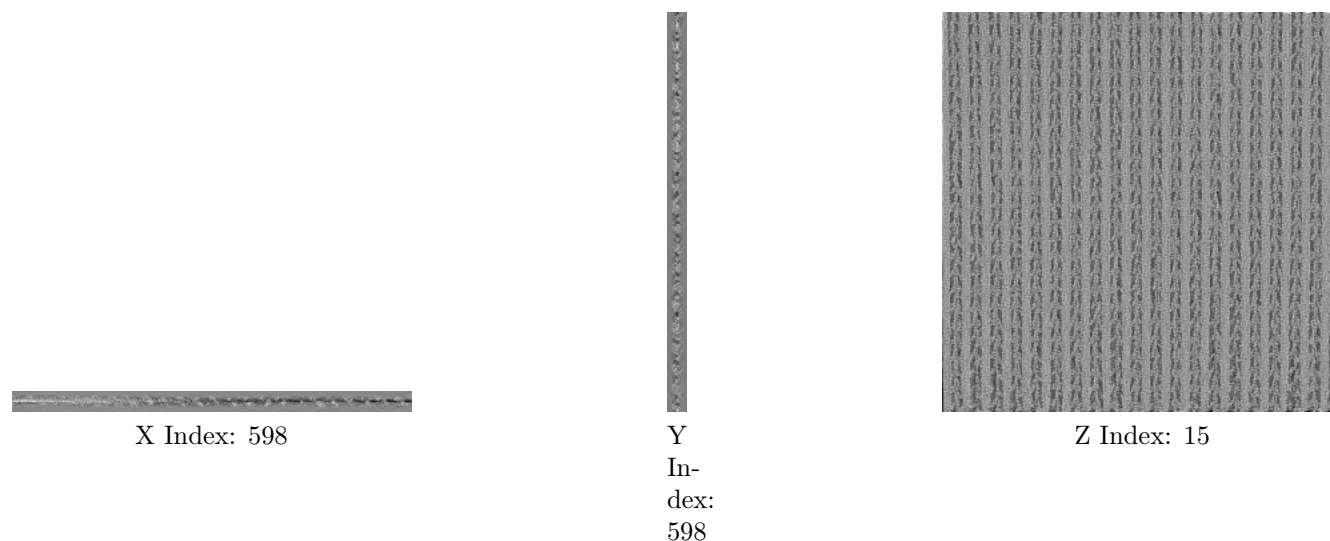
The images above show the tomogram projected in three orthogonal directions.

6.2 Central slices [i](#)



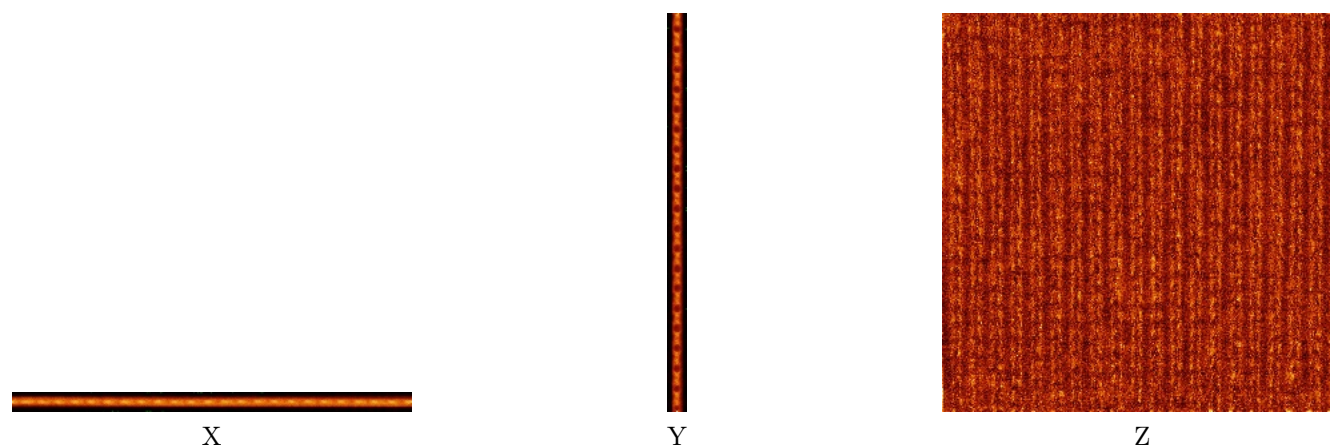
The images above show central slices of the tomogram in three orthogonal directions.

6.3 Largest variance slices [i](#)



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

6.4 Orthogonal standard-deviation projections (False-color) [i](#)



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

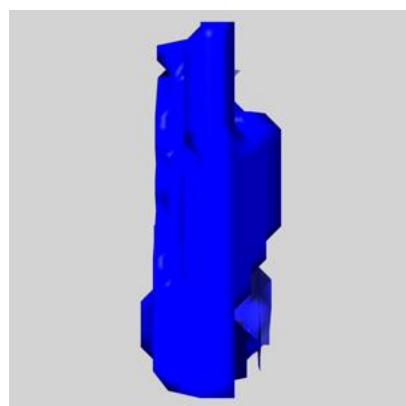
6.5 Mask visualisation [i](#)

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

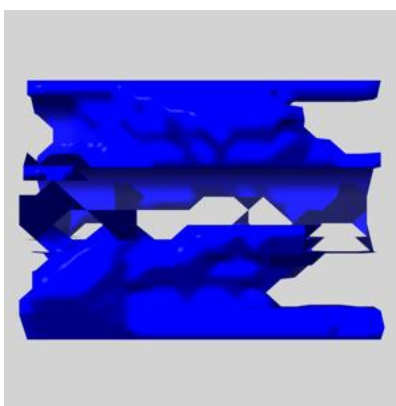
A mask typically either:

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

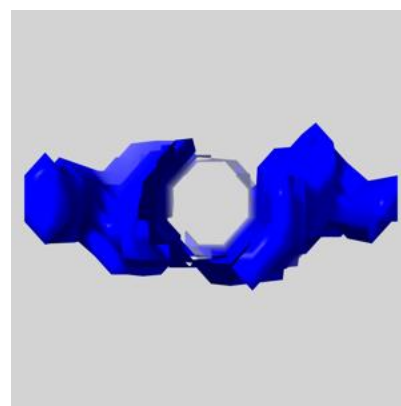
6.5.1 emd_1001_msk_25.map [i](#)



X

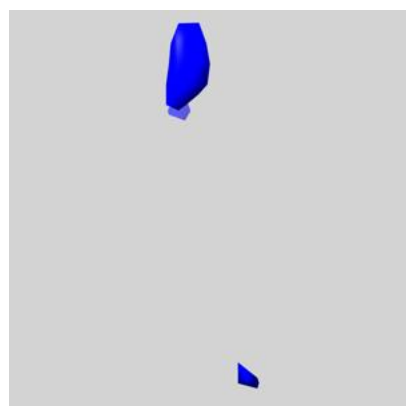


Y

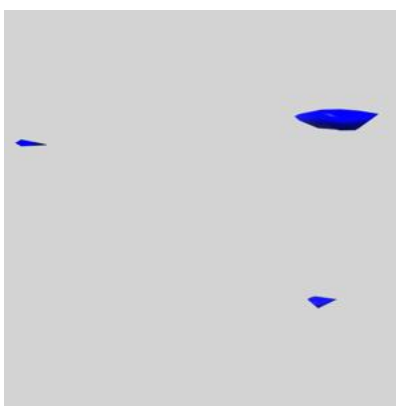


Z

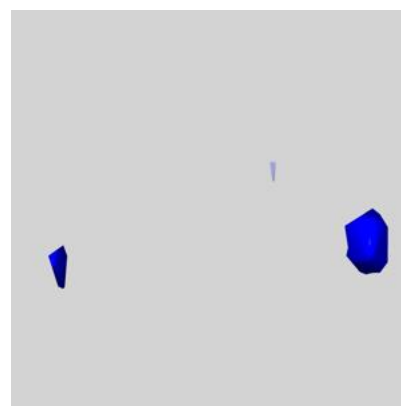
6.5.2 emd_1001_msk_24.map [i](#)



X

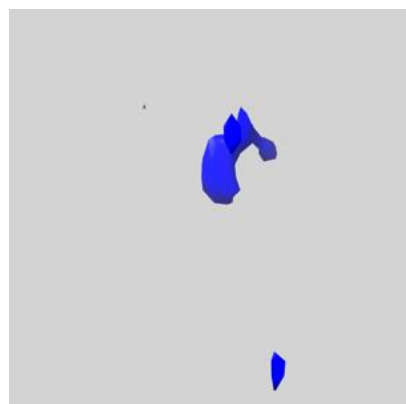


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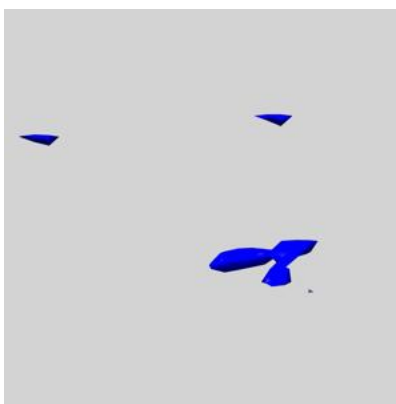


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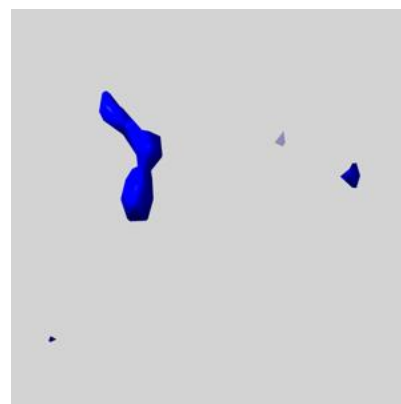
6.5.3 emd_1001_msk_23.map [i](#)



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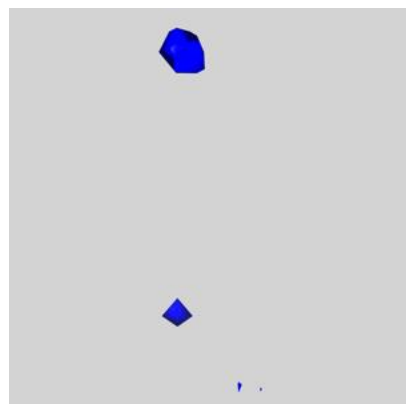


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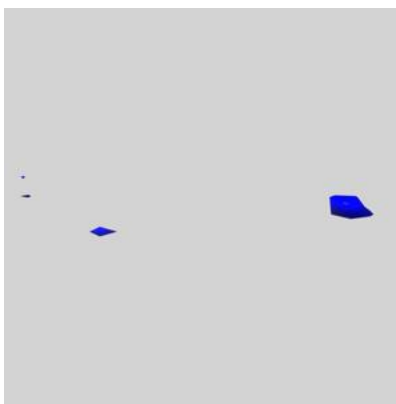


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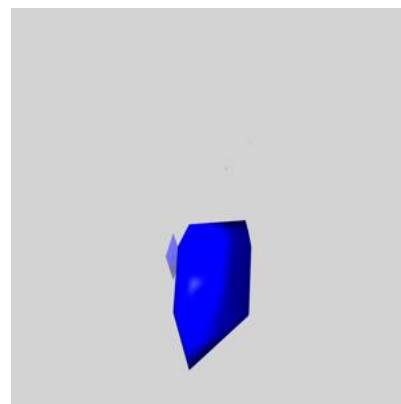
6.5.4 emd_1001_msk_22.map [i](#)



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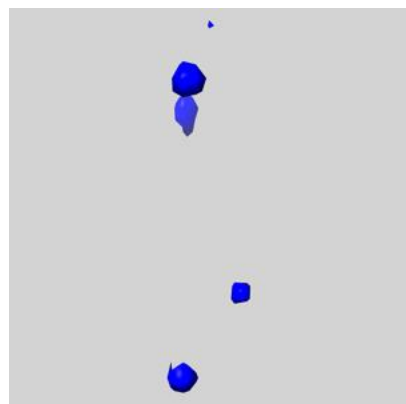


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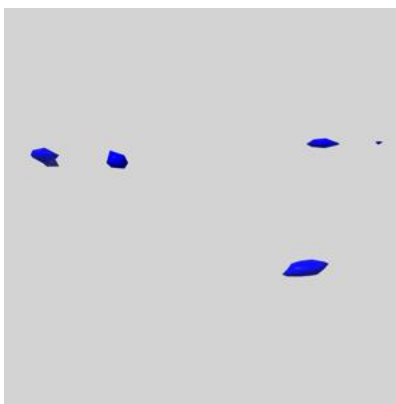


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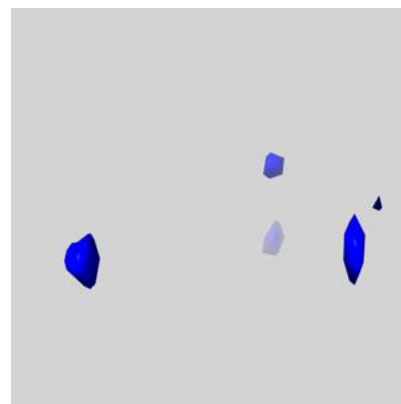
6.5.5 emd_1001_msk_21.map [i](#)



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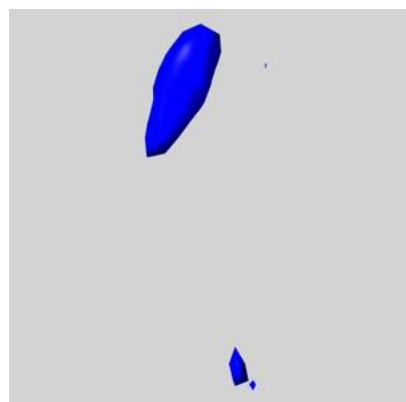


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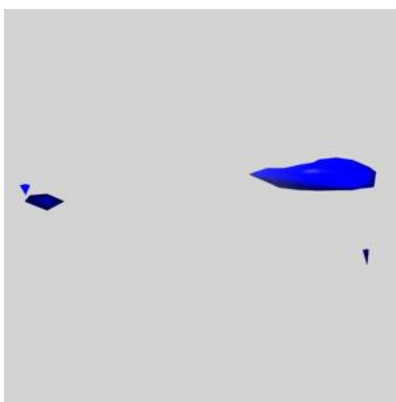


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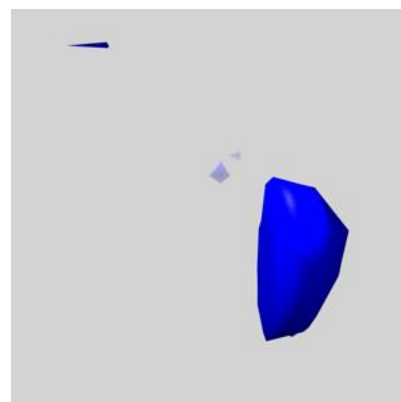
6.5.6 emd_1001_msk_20.map [i](#)



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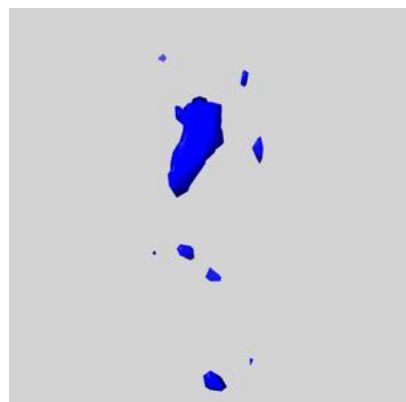


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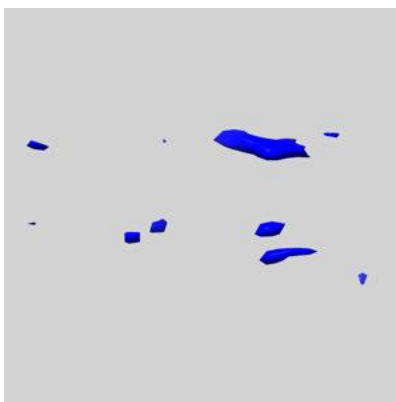


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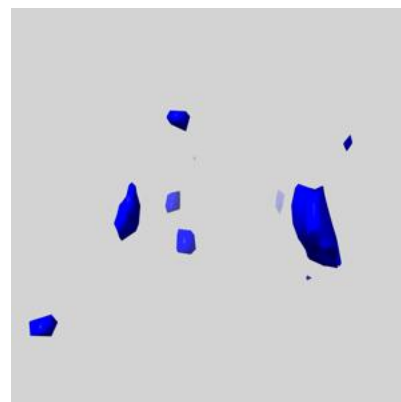
6.5.7 emd_1001_msk_19.map [i](#)



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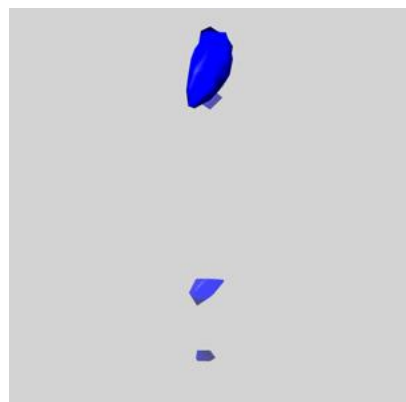


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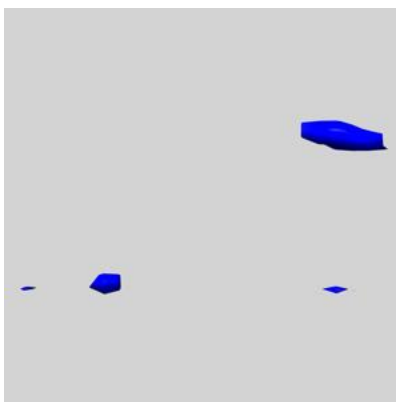


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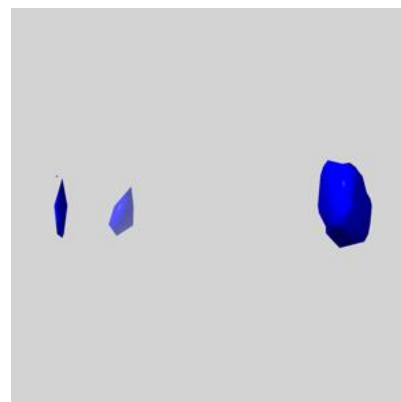
6.5.8 emd_1001_msk_18.map [i](#)



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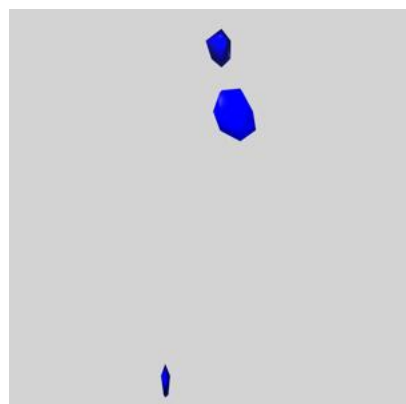


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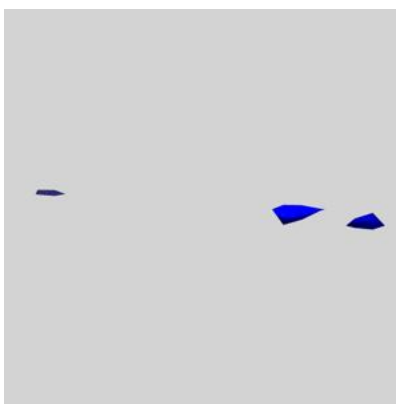


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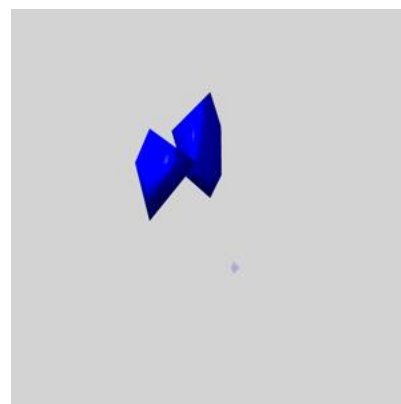
6.5.9 emd_1001_msk_17.map [i](#)



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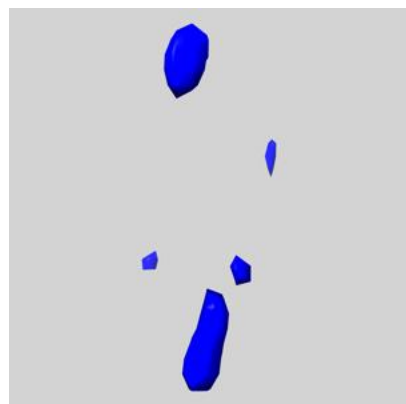


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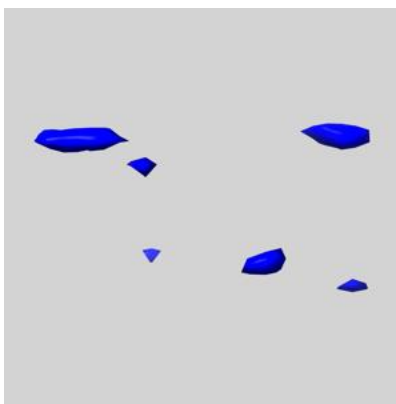


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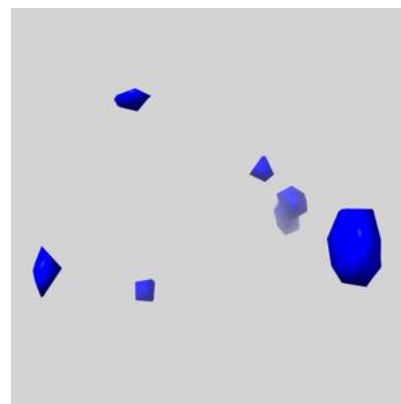
6.5.10 emd_1001_msk_16.map [i](#)



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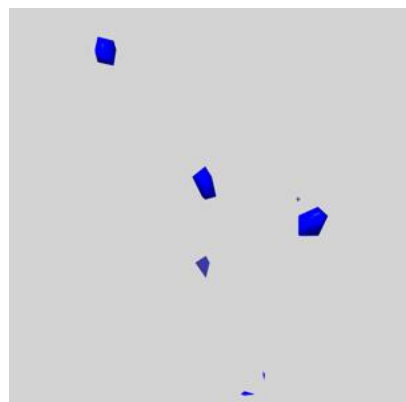


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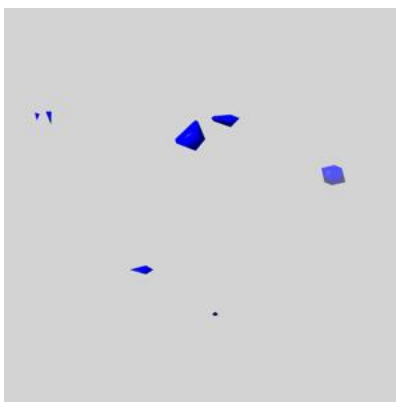


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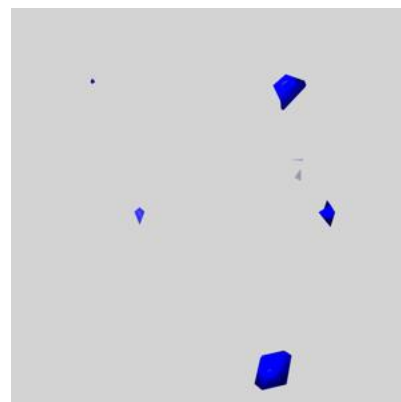
6.5.11 emd_1001_msk_15.map [i](#)



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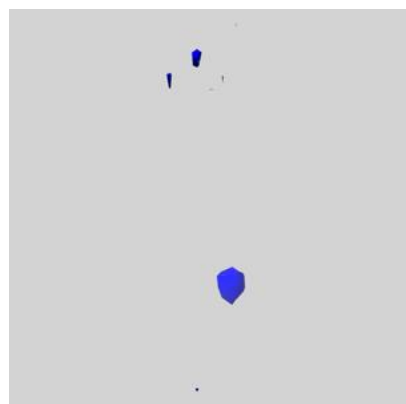


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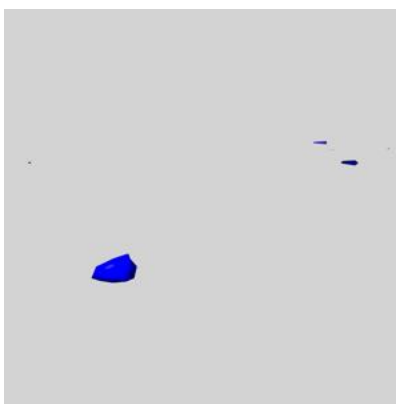


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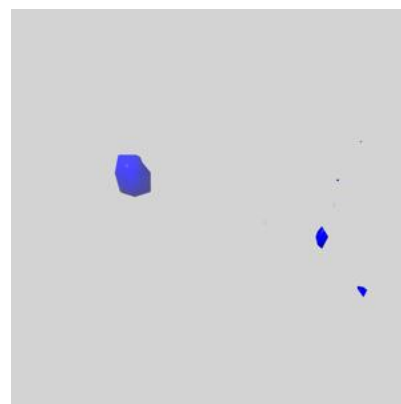
6.5.12 emd_1001_msk_14.map [i](#)



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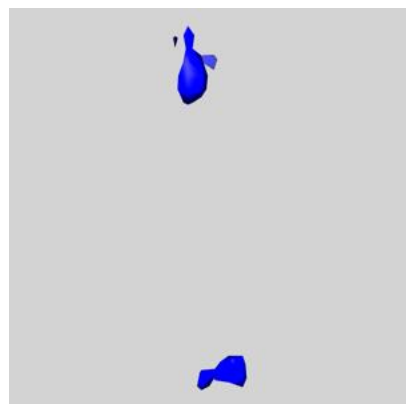


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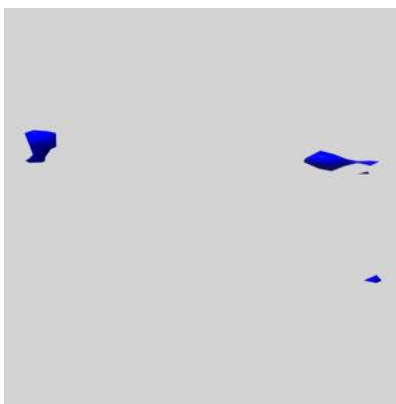


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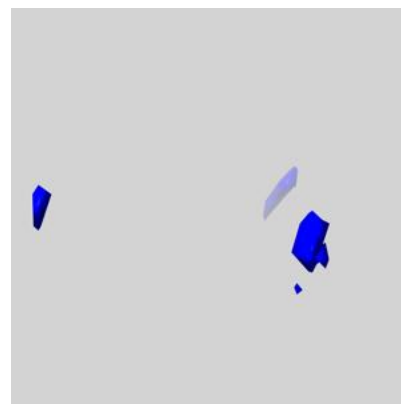
6.5.13 emd_1001_msk_13.map [i](#)



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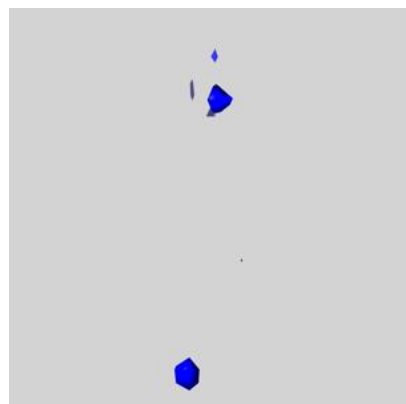


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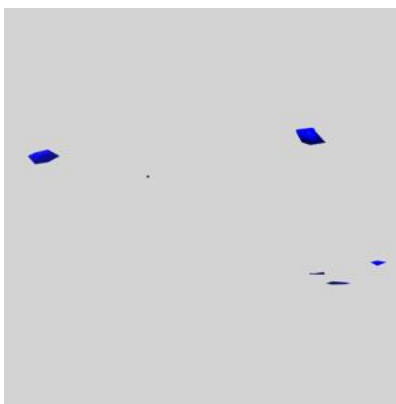


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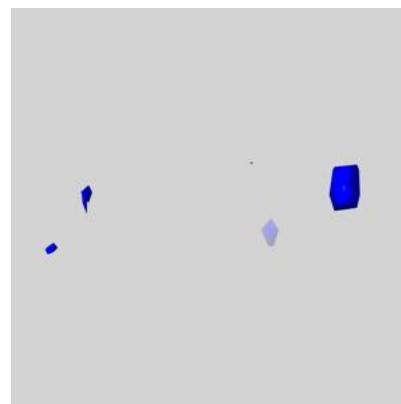
6.5.14 emd_1001_msk_12.map [i](#)



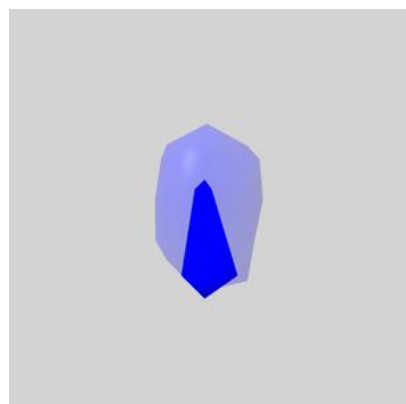
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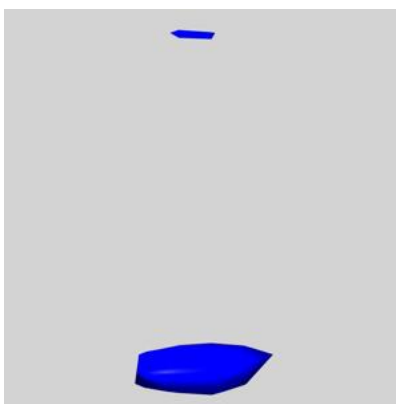
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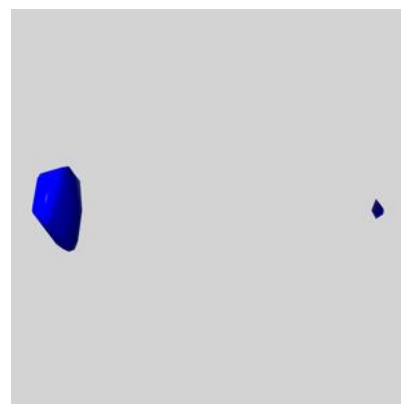
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6.5.15 emd_1001_msk_11.map [i](#)

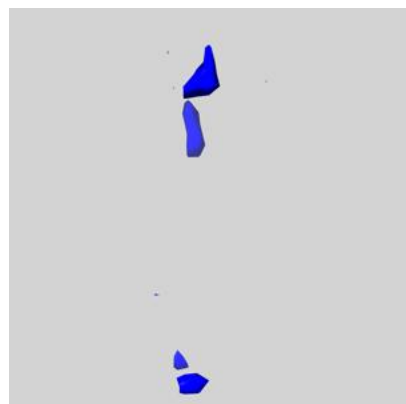
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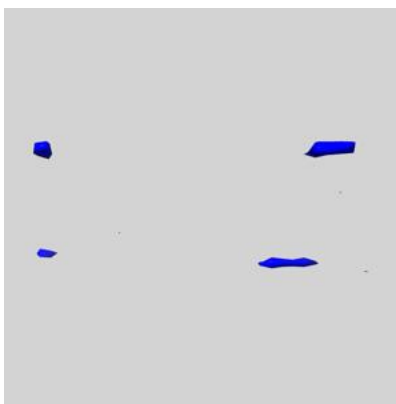
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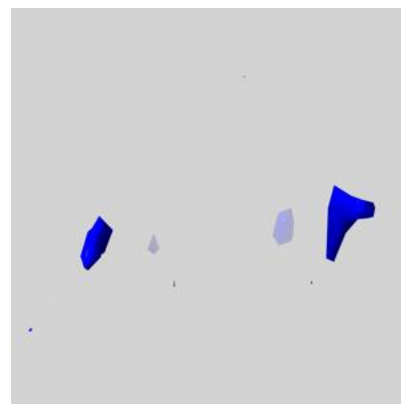
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6.5.16 emd_1001_msk_10.map [i](#)

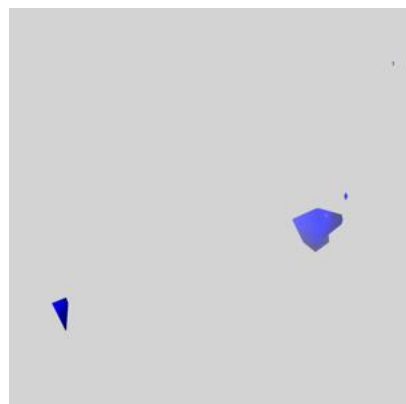
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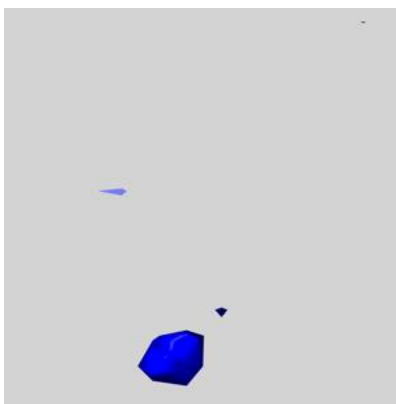
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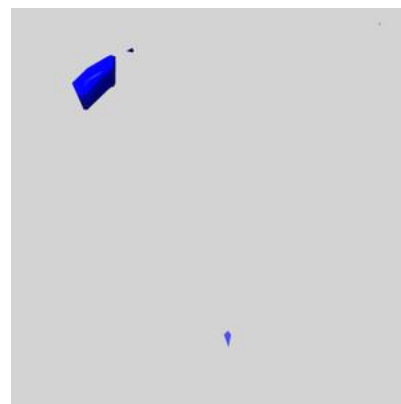
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6.5.17 emd_1001_msk_9.map [i](#)

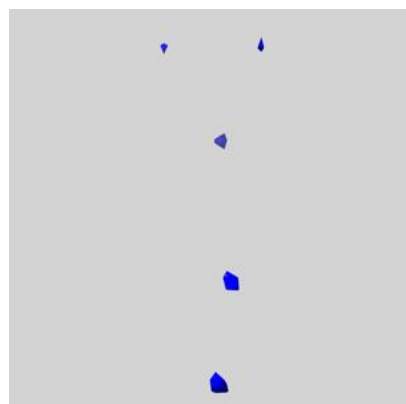
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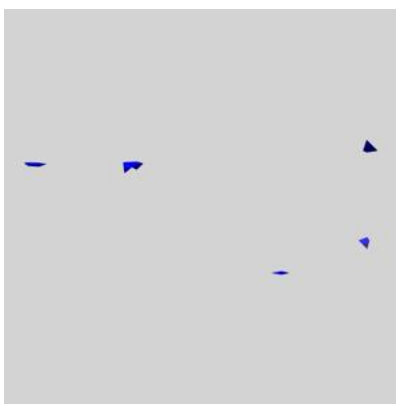
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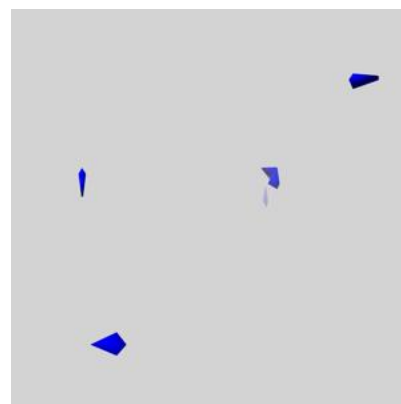
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6.5.18 emd_1001_msk_8.map [i](#)

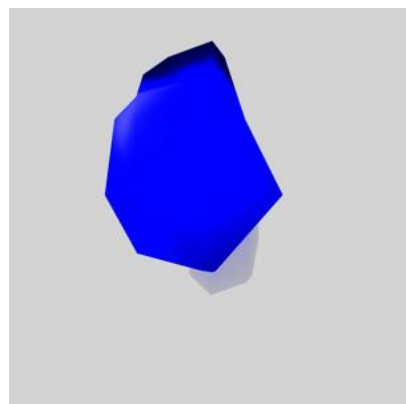
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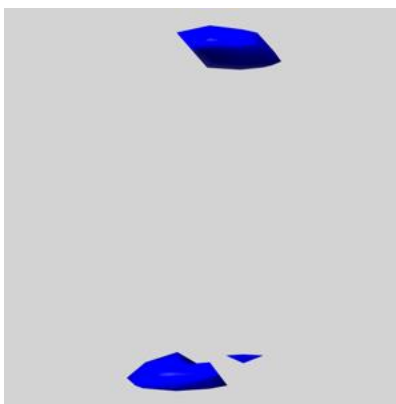
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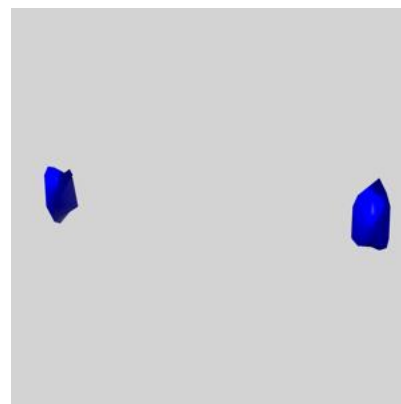
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6.5.19 emd_1001_msk_7.map [i](#)

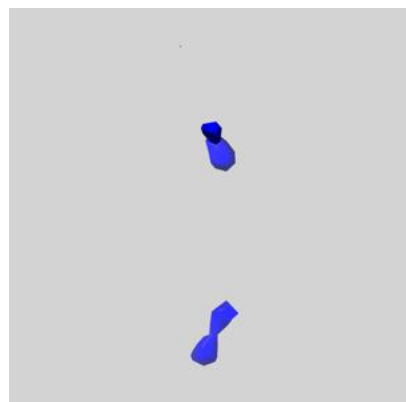
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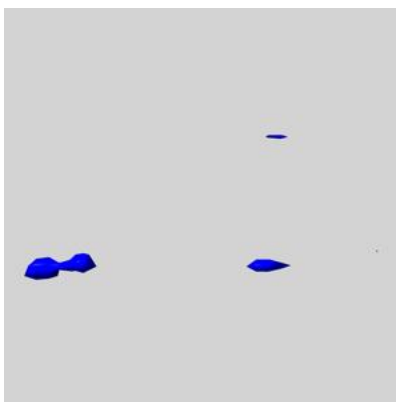
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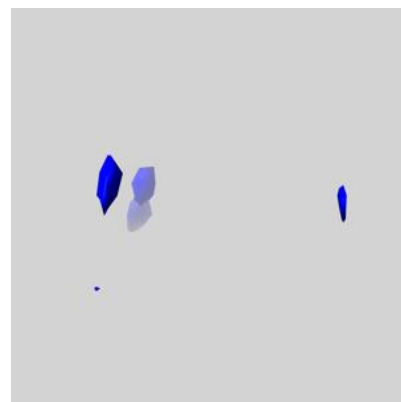
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6.5.20 emd_1001_msk_6.map [i](#)

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Y

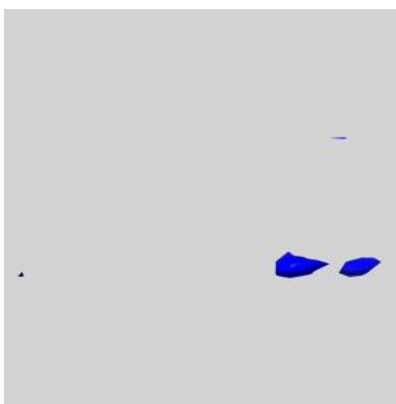


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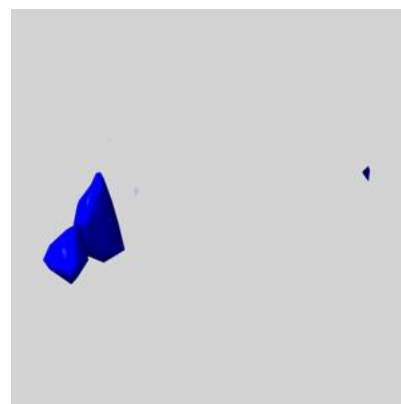
6.5.21 emd_1001_msk_5.map [i](#)



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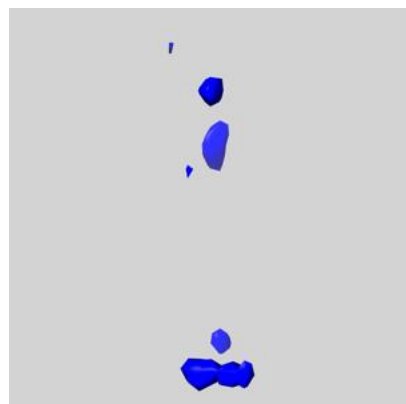


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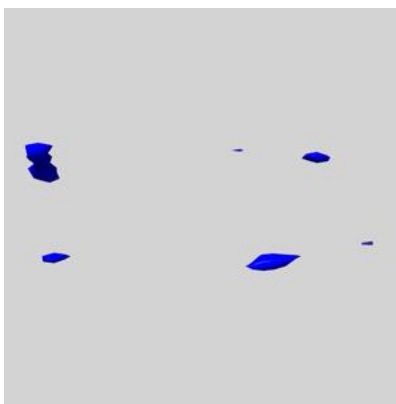


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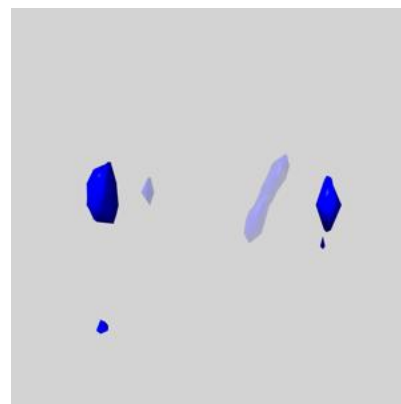
6.5.22 emd_1001_msk_4.map [i](#)



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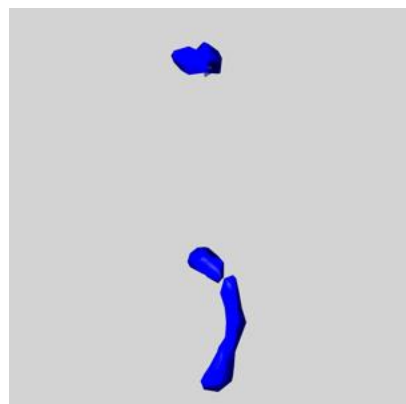


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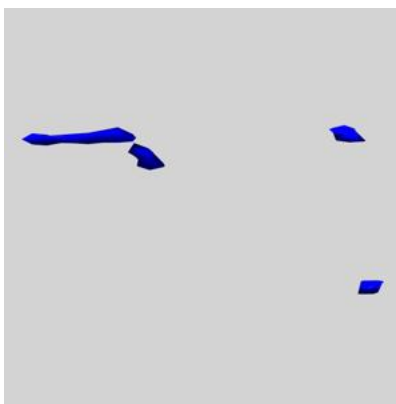


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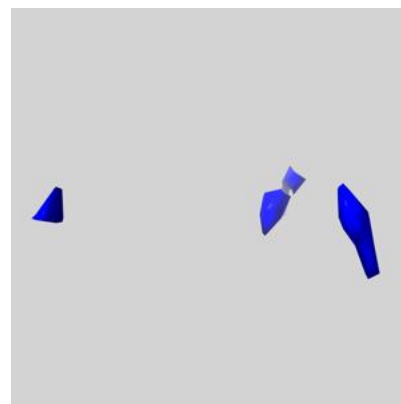
6.5.23 emd_1001_msk_3.map [i](#)



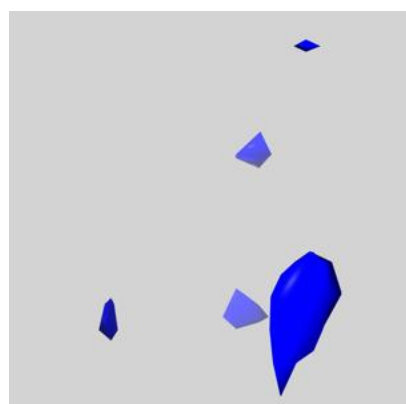
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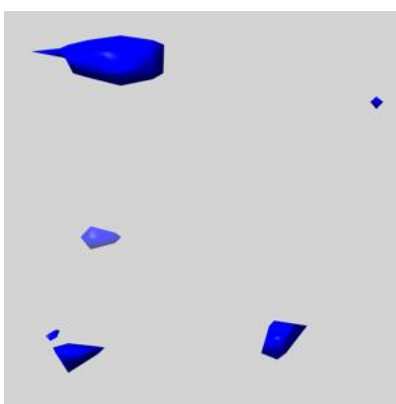
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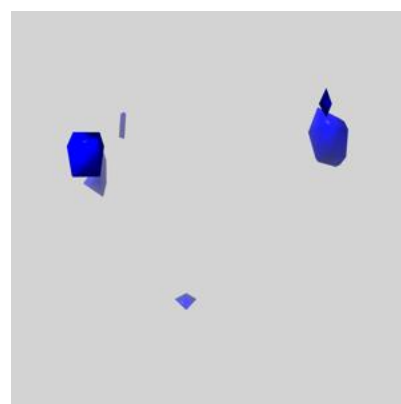
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6.5.24 emd_1001_msk_2.map [i](#)

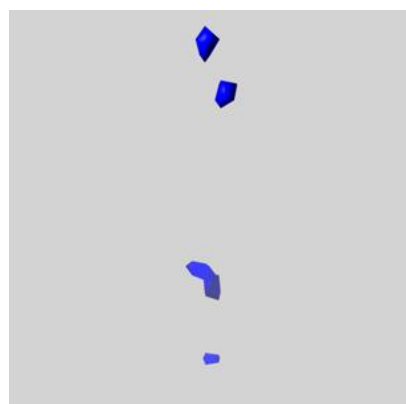
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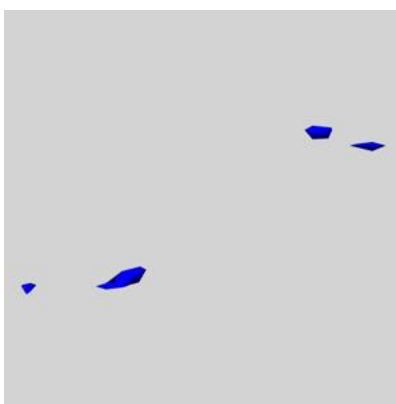
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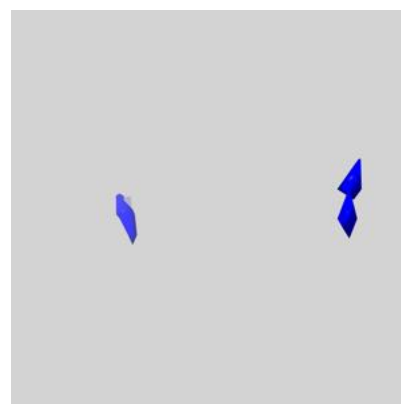
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6.5.25 emd_1001_msk_1.map [i](#)

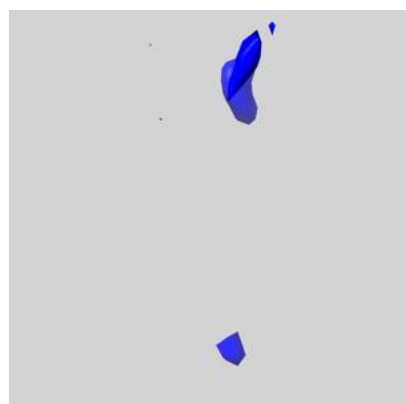
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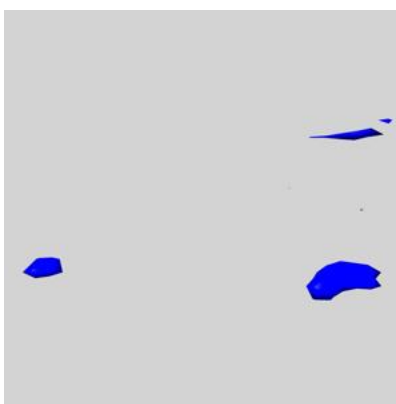
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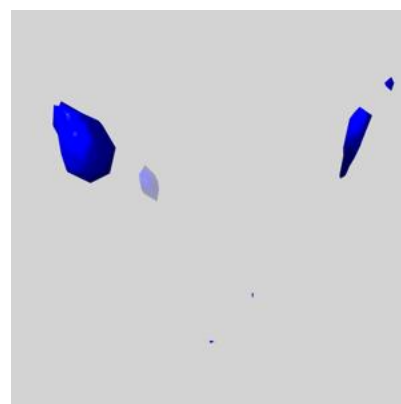
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6.5.26 emd_1001_msk_26.map [i](#)

X



Y

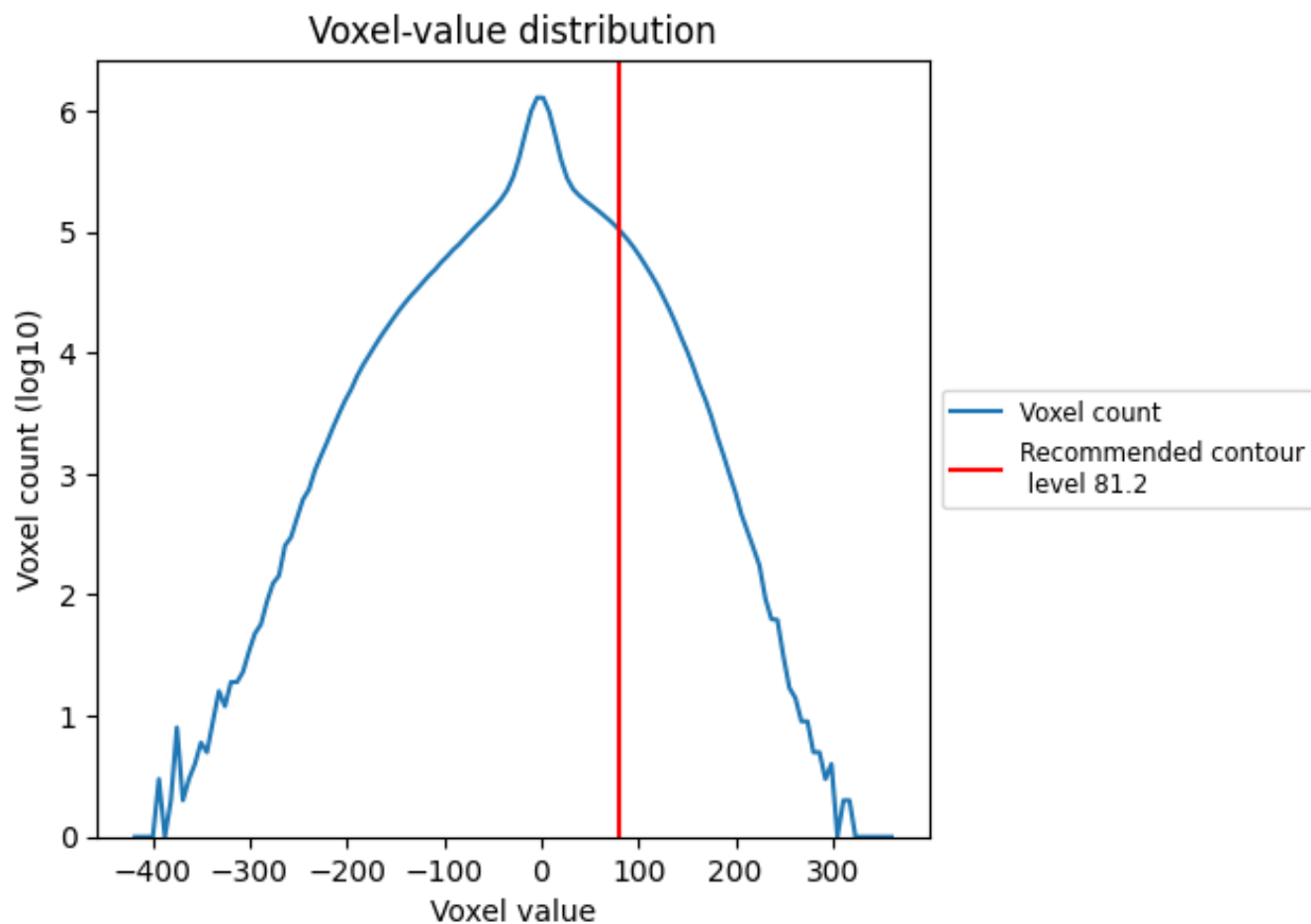


Z

7 Tomogram analysis [i](#)

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

7.1 Voxel-value distribution [i](#)



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

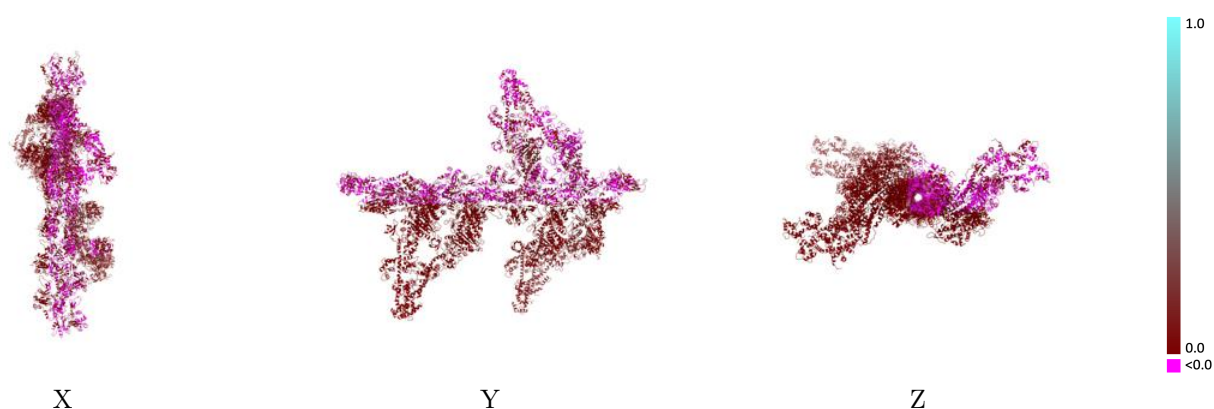
8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1001 and PDB model 1O19. Per-residue inclusion information can be found in section 3 on page 7.

8.1 Map-model overlay [i](#)

This section was not generated.

8.2 Q-score mapped to coordinate model [i](#)

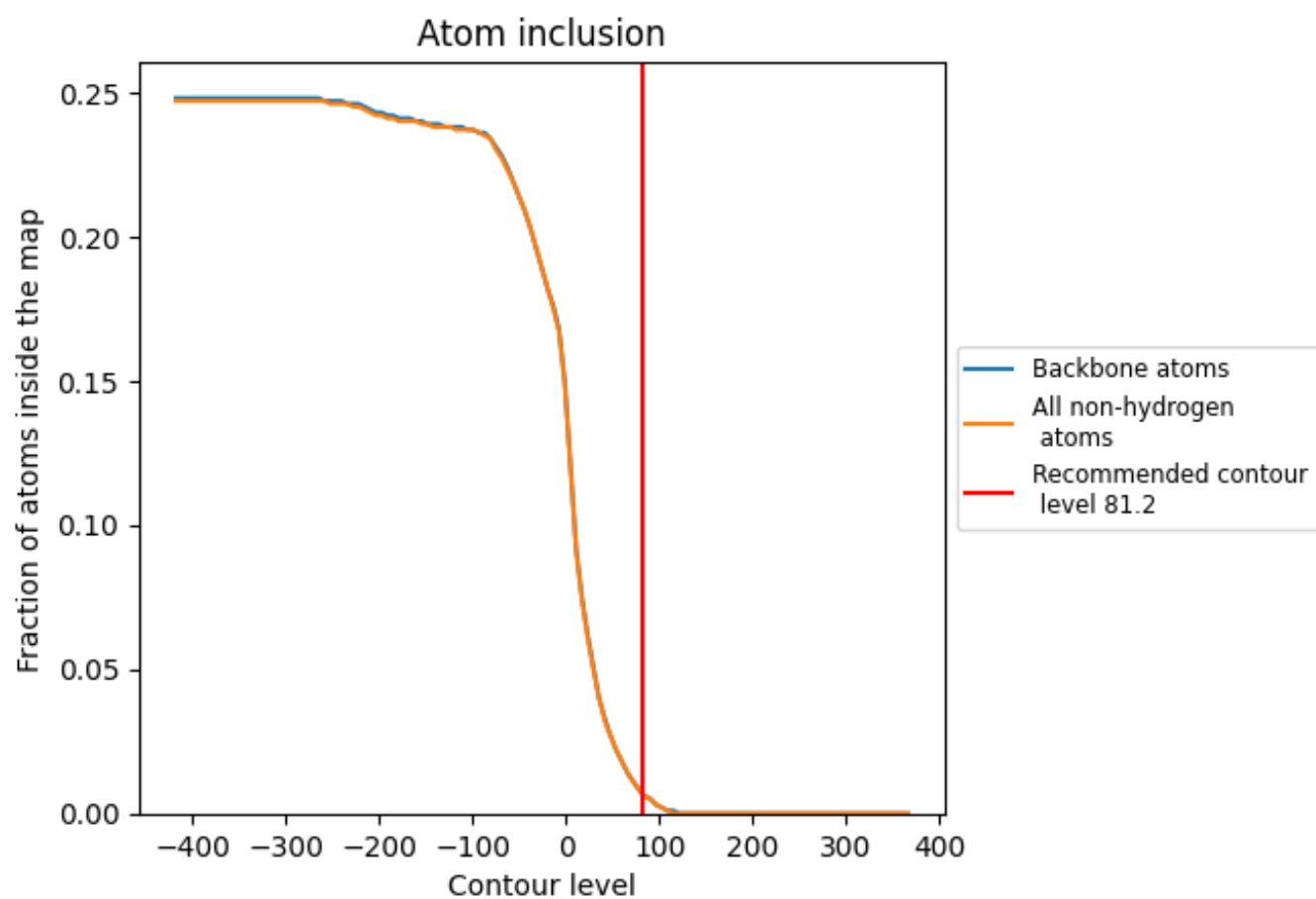


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 [i](#)

This section was not generated.

8.4 Atom inclusion [i](#)



At the recommended contour level, 1% of all backbone atoms, 1% 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	 0.0070	 0.0010
1	 0.0000	 0.0010
2	 0.0280	 0.0010
3	 0.0000	 -0.0060
4	 0.0000	 0.0120
5	 0.0000	 -0.0020
6	 0.0000	 0.0010
7	 0.0000	 0.0010
8	 0.0000	 0.0030
9	 0.0000	 0.0070
A	 0.0000	 0.0000
B	 0.0000	 0.0000
C	 0.0000	 0.0000
D	 0.0020	 -0.0030
E	 0.1030	 0.0240
F	 0.0400	 -0.0110
G	 0.0000	 0.0000
H	 0.0000	 0.0000
I	 0.0000	 0.0000
J	 0.0110	 0.0070
K	 0.0000	 -0.0200
L	 0.1700	 0.0250
M	 0.0000	 0.0000
N	 0.0000	 0.0000
O	 0.0000	 0.0000
S	 0.0000	 0.0010
T	 0.0000	 0.0000
U	 0.0000	 0.0000
V	 0.0000	 -0.0010
W	 0.0000	 -0.0080
X	 0.0540	 0.0100
Y	 0.0000	 0.0040
Z	 0.0000	 -0.0200

