



## Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 09:12 AM EST

PDB ID : 1O19  
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](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev43  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

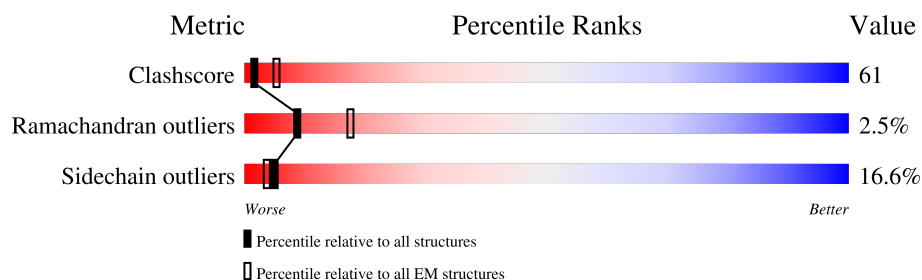
# 1 Overall quality at a glance

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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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  $\geq 3$ , 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	<div> <div>100%</div> <div>25% 51% 20% .</div> </div>
1	D	840	<div> <div>100%</div> <div>25% 50% 20% .</div> </div>
1	G	840	<div> <div>100%</div> <div>24% 51% 20% .</div> </div>
1	J	840	<div> <div>99%</div> <div>26% 50% 20% .</div> </div>
1	M	840	<div> <div>100%</div> <div>26% 50% 21% .</div> </div>
1	S	840	<div> <div>100%</div> <div>25% 51% 20% .</div> </div>
2	B	145	<div> <div>100%</div> <div>66% 26% 6% .</div> </div>
2	E	145	<div> <div>90%</div> <div>64% 27% 6% .</div> </div>

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Mol	Chain	Length	Quality of chain
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	
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 crite-

ria:

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

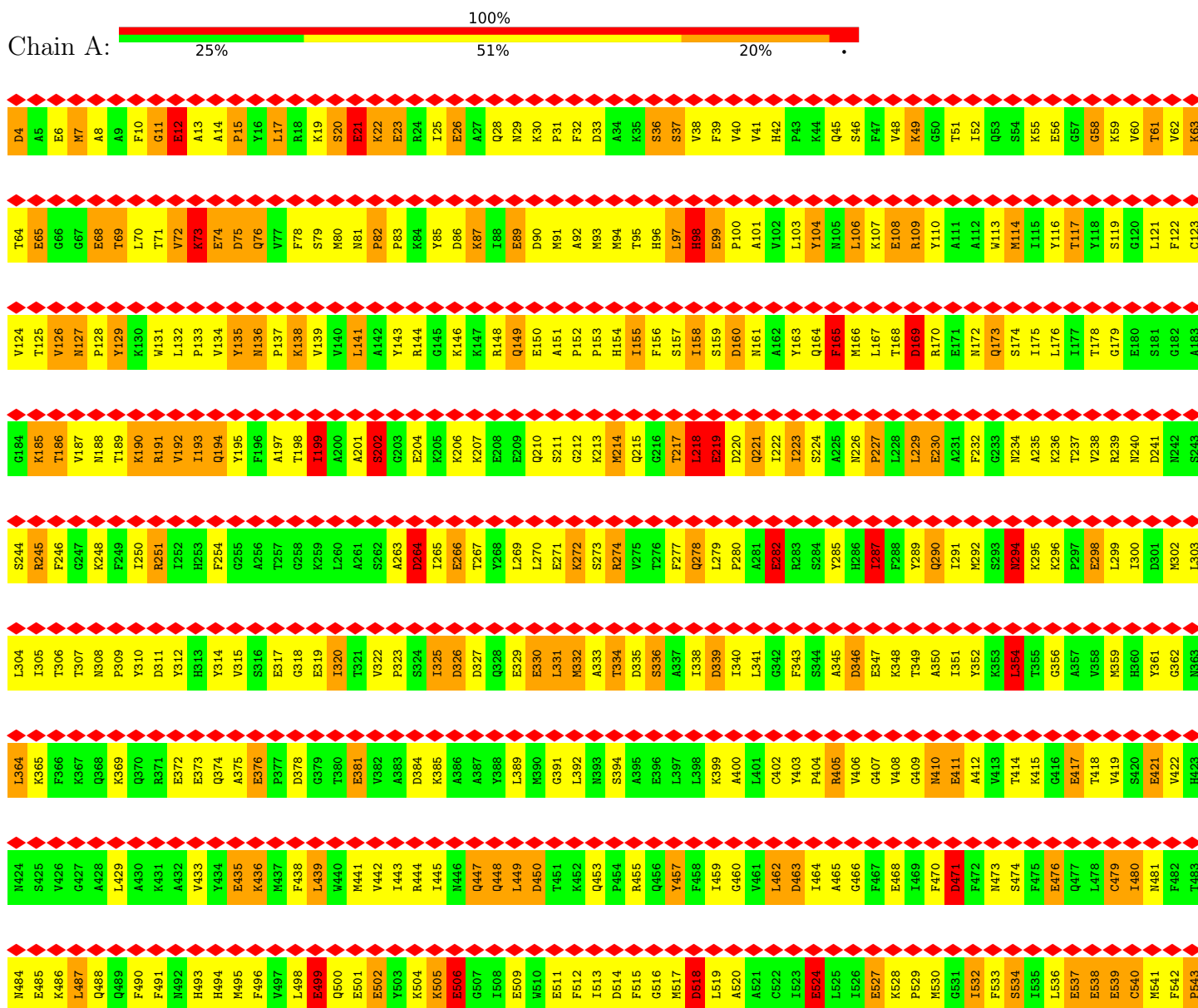
- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

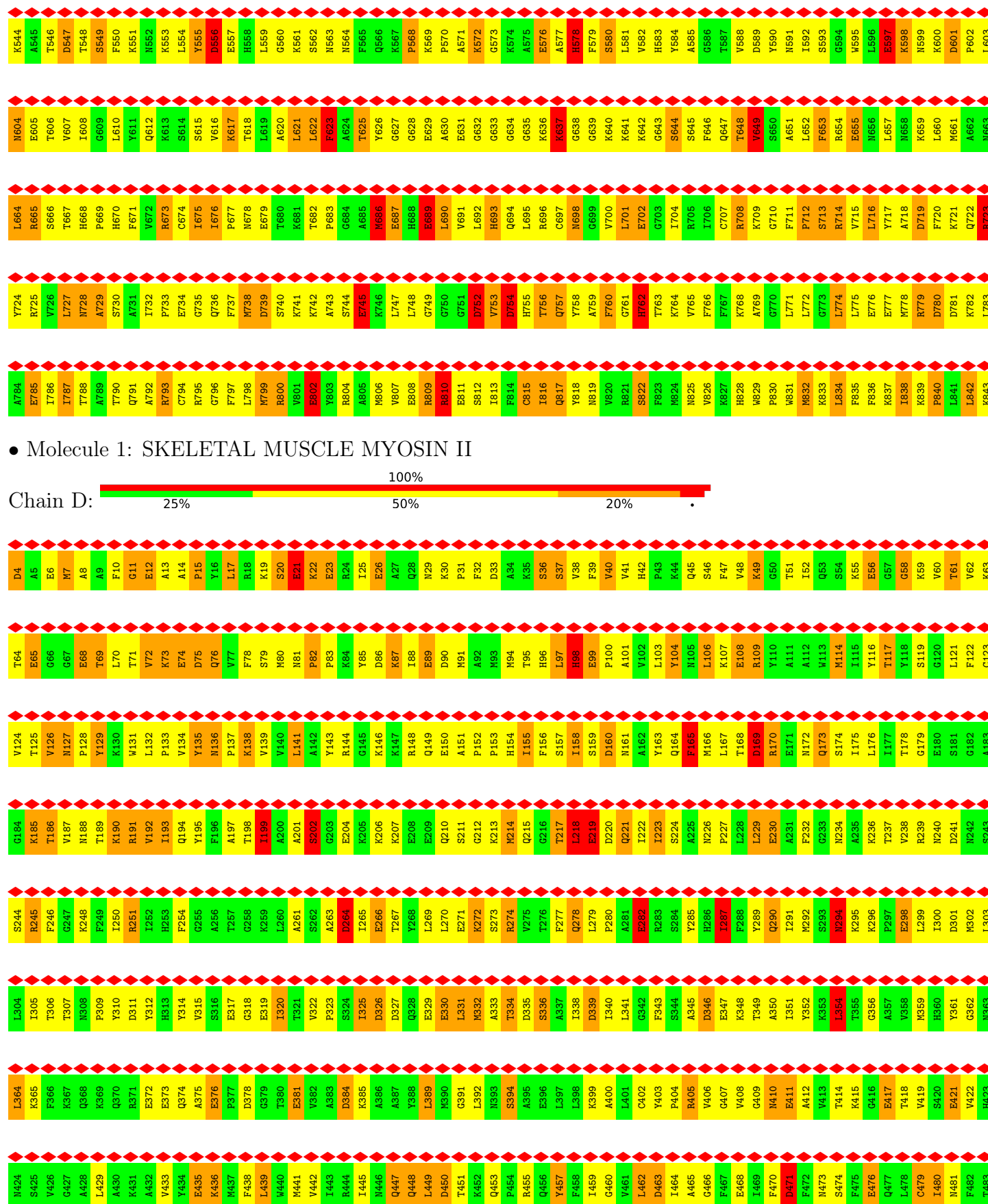
Mol	Chain	Residues	Atoms					AltConf	Trace
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	5	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20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

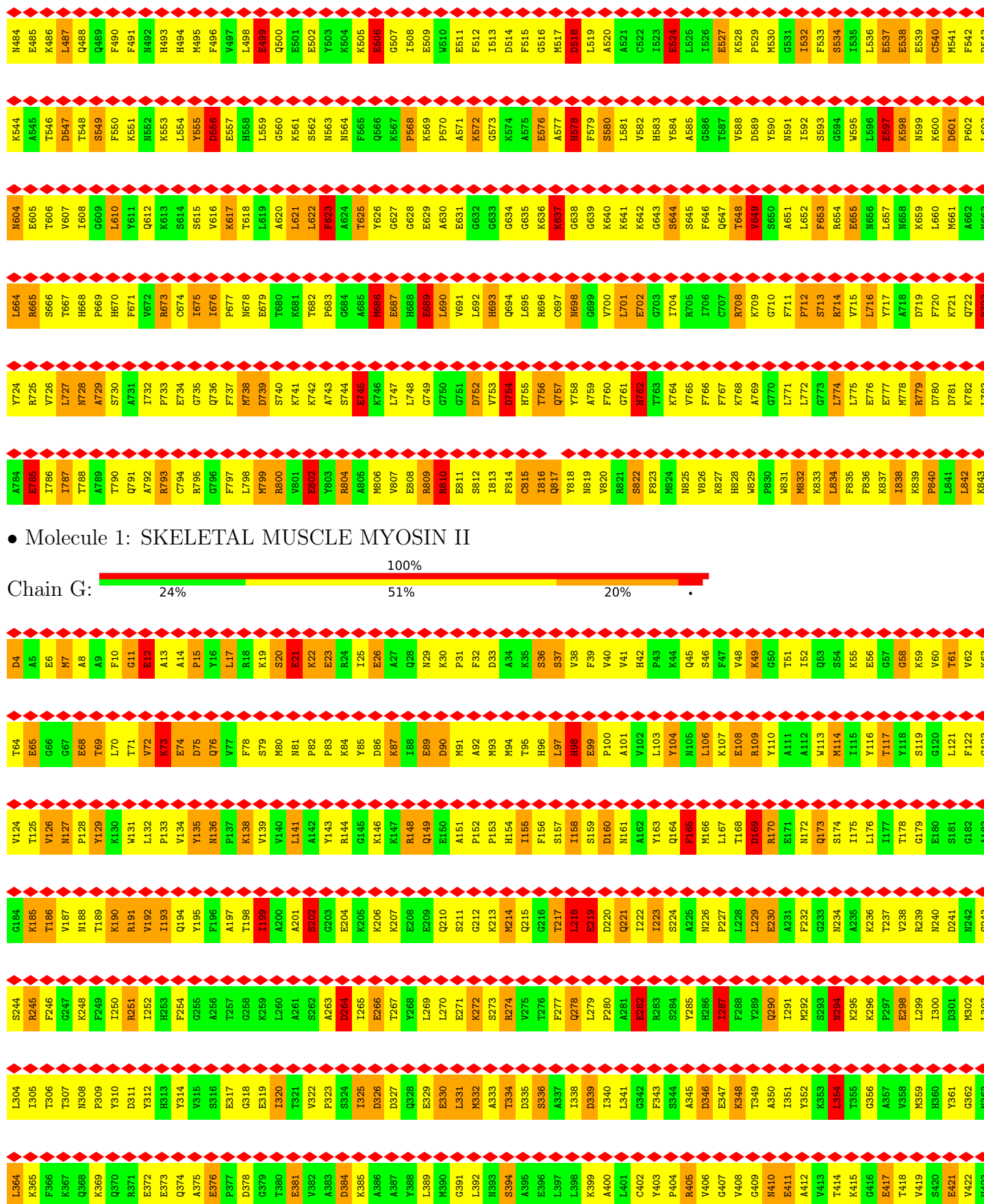
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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.

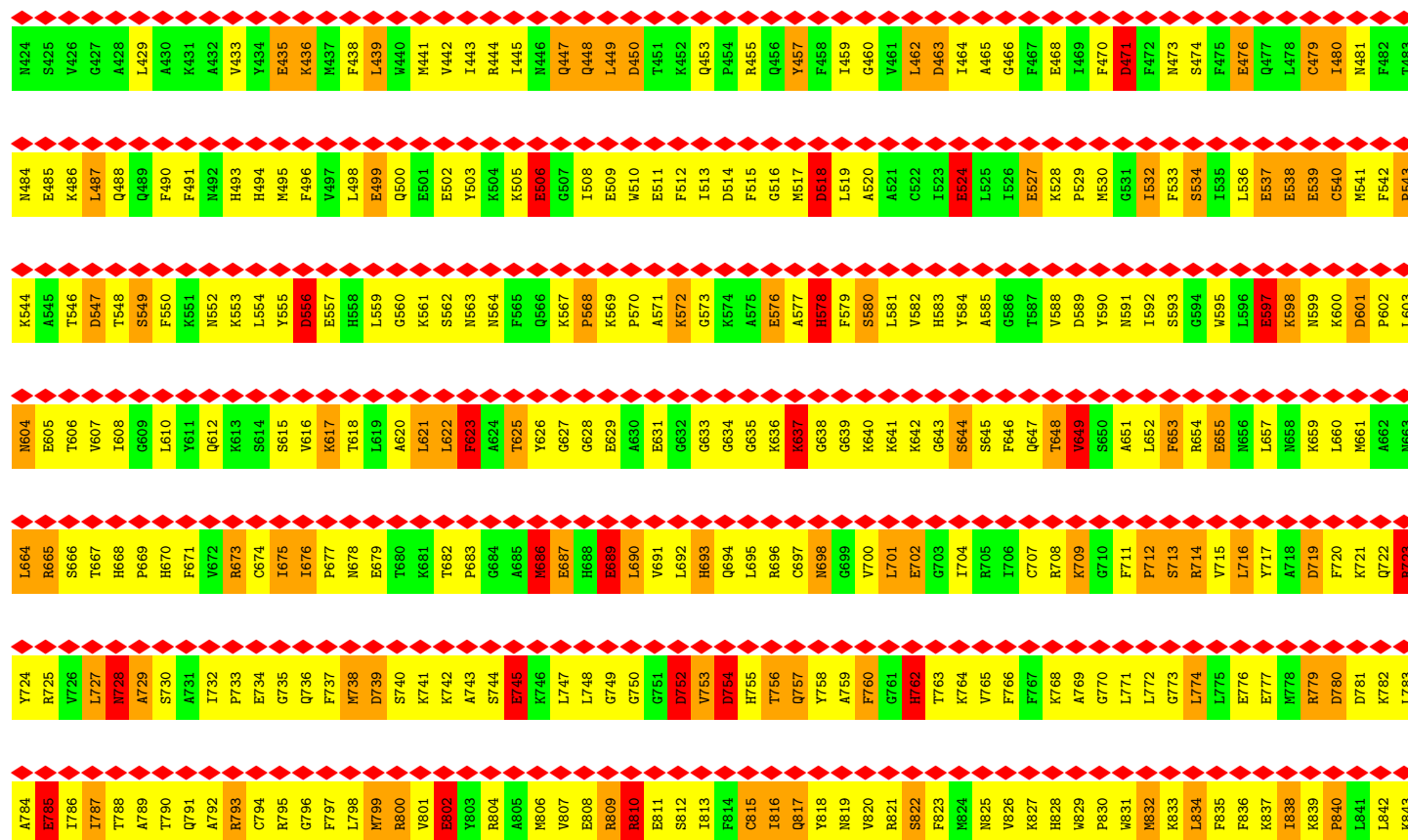
#### • Molecule 1: SKELETAL MUSCLE MYOSIN II



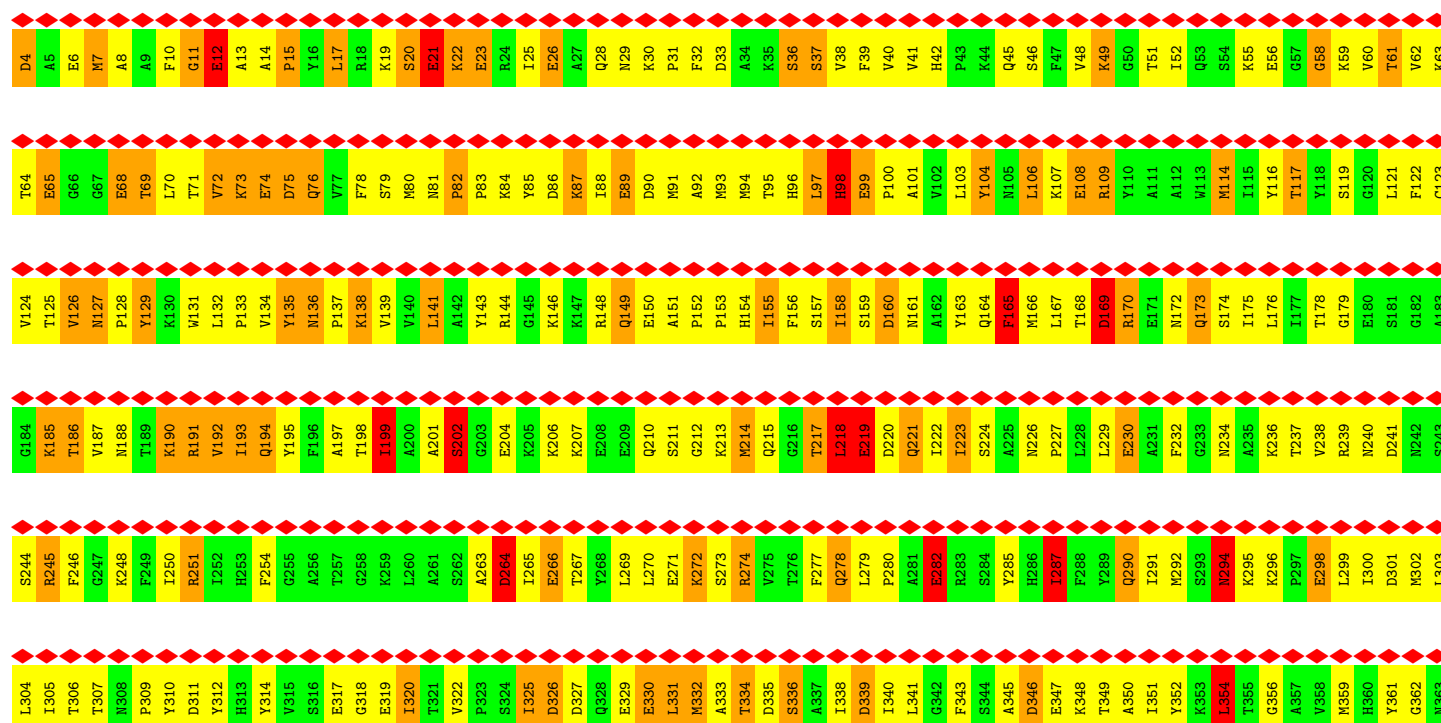


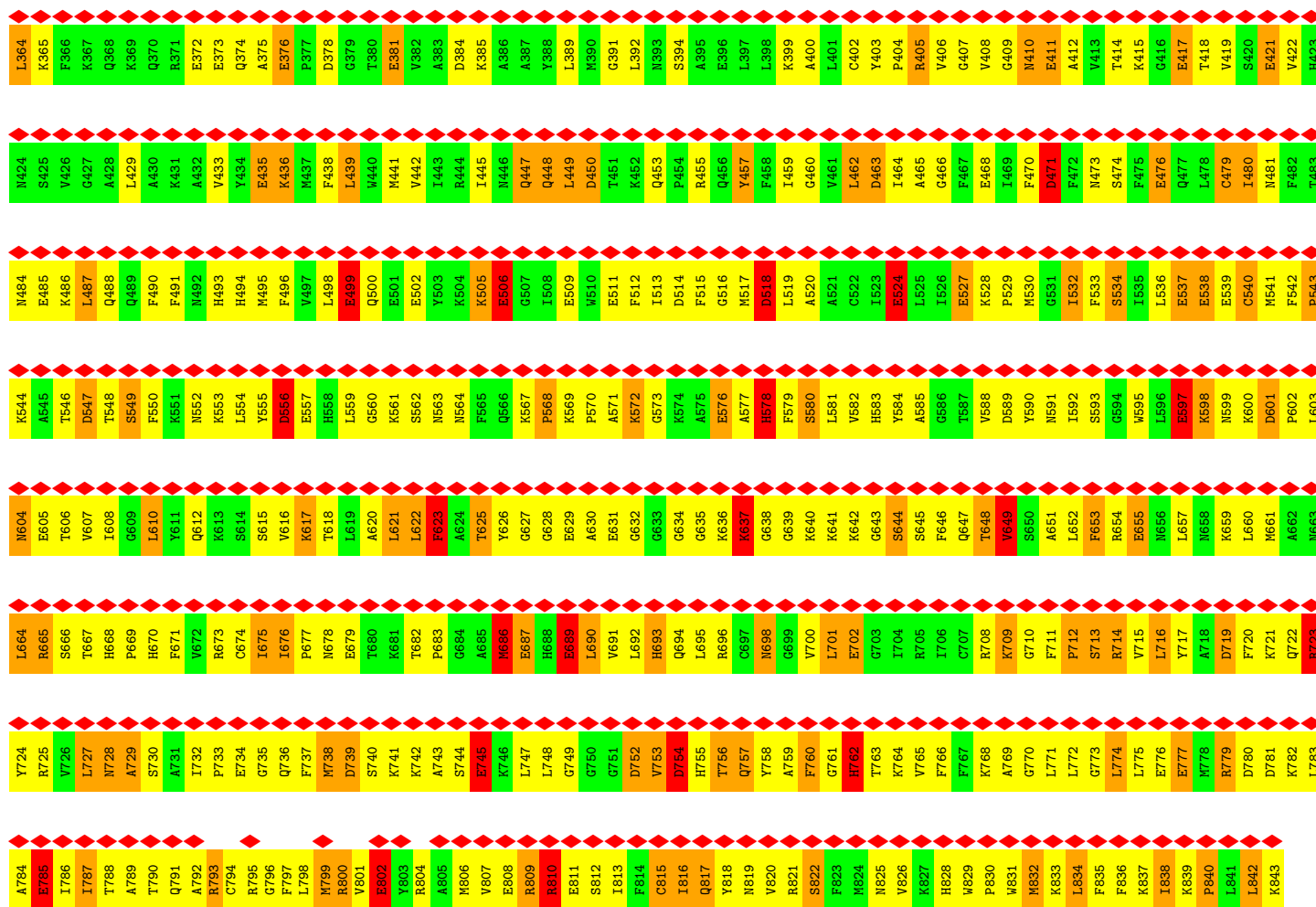




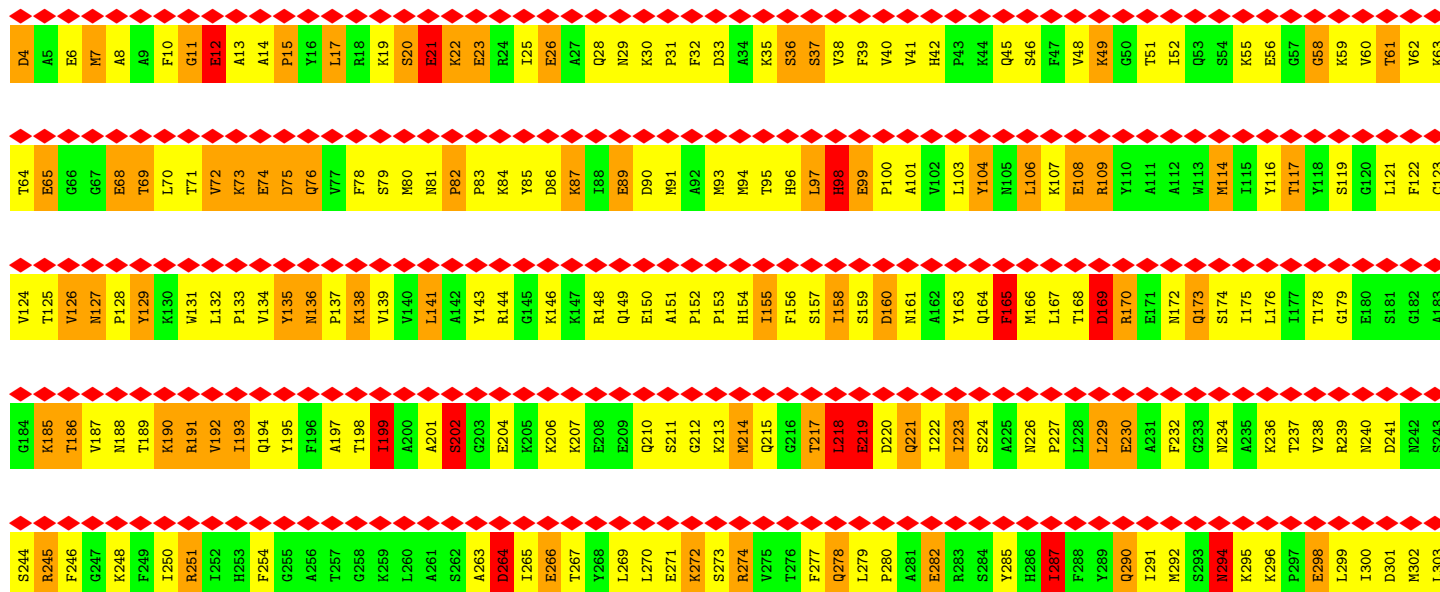


## ● Molecule 1: SKELETAL MUSCLE MYOSIN II





• Molecule 1: SKELETAL MUSCLE MYOSIN II



L304	L364	N424	N484	K544	N604	L664	Y724	A784	L844
I305	K365	S425	E485	A545	E605	R665	R725	E785	E845
T306	F366	V426	K486	T546	T606	S666	V726	I786	I846
T307	K367	G427	L487	D547	V607	T667	L727	I787	L847
N308	Q368	A428	Q488	T548	T608	H668	N728	T788	L848
P309	K369	L429	Q489	S549	G609	P669	A729	A789	L849
Y310	Q370	A430	F490	F550	L610	H670	S730	T790	L850
D311	R371	K431	F491	K551	Y611	F671	A731	Q791	L851
Y312	E372	A432	N492	N552	Q612	V672	I732	A792	L852
H313	E373	V433	H493	K553	K613	R673	P733	R793	L853
Y314	Q374	Y434	H494	L554	S614	C674	E734	C794	L854
V315	A375	E435	M495	Y555	S615	L675	G735	R795	L855
S316	A376	E436	F496	D556	V616	L676	Q736	G796	L856
E317	E377	M437	V497	E557	K617	P677	F737	F797	L857
G318	D378	F438	L498	H558	T618	N678	M738	L798	L858
E319	G379	L439	E499	L559	L619	E679	D739	M799	L859
I320	T380	W440	Q500	G560	A620	T680	S740	R800	L860
I321	E381	M441	E501	K561	L621	K681	K741	E801	L861
V322	V382	V442	E502	N562	L622	T682	K742	E802	L862
P323	A383	I443	Y503	N563	F623	P683	A743	R803	L863
S324	D384	R444	K504	N564	A624	G684	S744	R804	L864
I325	K385	I445	K505	F565	T625	A685	E745	A805	L865
D326	A386	N446	E506	Q566	Y626	N686	K746	M806	L866
D327	A387	Q447	G507	K567	G627	E687	L747	E807	L867
Q328	Y388	Q448	L508	P568	G628	H688	L748	E808	L868
E329	L389	L449	E509	K569	E629	E689	G749	R809	L869
E330	M390	D450	W510	P570	A630	L690	G750	R810	L870
L331	G391	T451	E511	A571	E631	V691	G751	E811	L871
M332	L392	K452	F512	K572	G632	L692	D752	S812	L872
A333	N393	Q453	I513	G573	G633	H693	V753	I813	L873
T334	S394	P454	D514	K574	G634	Q694	D754	F814	L874
D335	A395	R455	F515	A575	G635	L695	H755	C815	L875
S336	E396	Q456	G516	E576	K636	R696	T756	L816	L876
A337	L397	Y457	N517	A577	K637	G697	Q757	Q817	L877
I338	L398	F458	D518	H578	G638	N698	Y758	N818	L878
D339	K399	I459	L519	F579	G639	G699	A759	N819	L879
I340	A400	A460	A520	S580	K640	V700	F760	V820	L880
L341	L401	V461	A521	L581	K641	L701	G761	R821	L881
G342	C402	L462	C522	V582	K642	E702	H762	S822	L882
F343	Y403	D463	I523	H583	G643	G703	T763	F823	L883
S344	P404	I464	E524	Y584	S644	L704	K764	M824	L884
A345	R405	A465	L525	A585	S645	R705	V765	N825	L885
D346	V406	G466	I526	G586	F646	T706	F766	R826	L886
E347	G407	F467	E527	T587	Q647	G707	F767	K827	L887
K348	V408	E468	K528	V588	T648	R708	K768	H828	L888
T349	G409	I469	P529	D589	V649	A709	A769	W829	L889
A350	N410	F470	M530	Y590	S650	G710	G770	P830	L890
I351	E411	D471	G531	N591	A651	F711	L771	W831	L891
K353	V413	N473	F533	S593	F653	S713	G773	K833	L892
L354	T414	S474	S534	G594	R654	R714	L774	L834	L893
T355	K415	F475	I535	N595	E655	V715	L775	F835	L894
A357	E417	Q477	E537	E597	L657	L717	E777	R837	L895
V358	T418	L478	E538	K598	N658	A718	H778	K839	L896
M359	V419	C479	E539	N599	K659	D719	R779	P840	L897
H360	S420	I480	C540	K600	F720	L660	D780	V840	L898
Y361	E421	N481	M541	D601	N661	K721	D781	L841	L899
G362	V422	F482	F542	P602	A662	Q722	K782	L842	L900
N363	I423	T483	P543	L603	N663	R723	L783	L843	L901

• Molecule 1: SKELETAL MUSCLE MYOSIN II



D4	A5	E6	M7	A8	A9	F10	G11	E12	A13	A14	P15	Y16	L17	R18	K19	S20	E21	K22	E23	R24	I25	E26	A27	Q28	N29	K30	P31	F32	D33	A34	K35	S36	S37	V38	F39	V40	V41	H42	P43	K44	Q45	S46	F47	V48	K49	G50	T51	I52	Q53	S54	K55	E56	G57	G58	K59	V60	T61	V62	K63
T64	E65	G66	G67	E68	T69	L70	T71	V72	K73	E74	D75	Q76	V77	F78	S79	M80	N81	P82	P83	K84	Y85	D86	K87	I88	E89	D90	M91	A92	M93	M94	T95	H96	L97	H98	E99	P100	A101	V102	L103	Y104	N105	L106	K107	E108	R109	Y110	A111	A112	Y113	M114	I115	Y116	T117	Y118	S119	G120	L121	F122	C123
V124	T125	V126	N127	P128	Y129	K130	W131	L132	P133	V134	Y135	N136	P137	K138	V139	V140	L141	A142	Y143	R144	G145	K146	L147	R148	Q149	E150	A151	P152	P153	H154	I155	F156	S157	I158	S159	D160	N161	A162	Y163	Q164	F165	M166	L167	T168	D169	R170	E171	N172	Q173	S174	I175	L176	G177	T178	G179	E180	L181	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	N226	P227	L228	L229	E230	A231	F232	G233	N234	A235	K236	T237	V238	R239	N240	D241	N242	S243	



Frequency	Percentage
100%	100%
66%	66%
26%	26%
6%	6%



• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain E: 



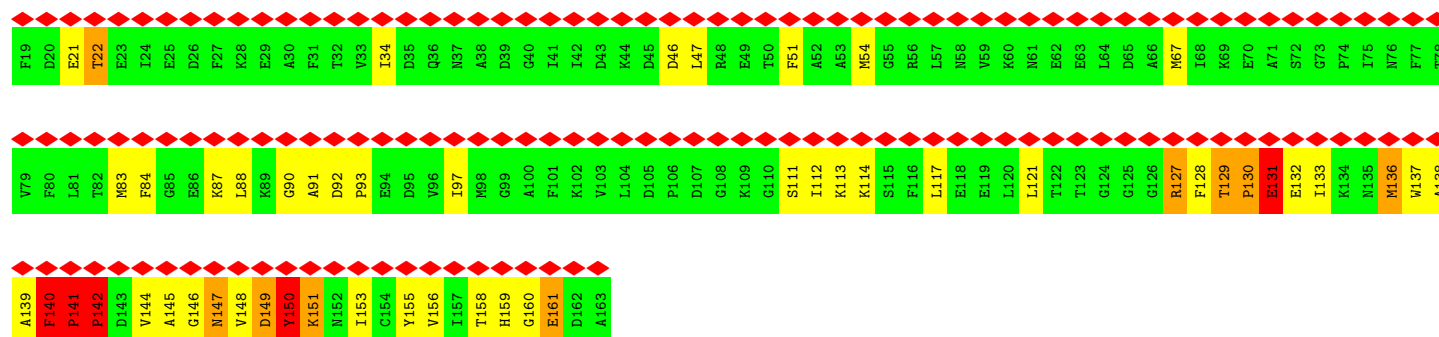
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain H: 



• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

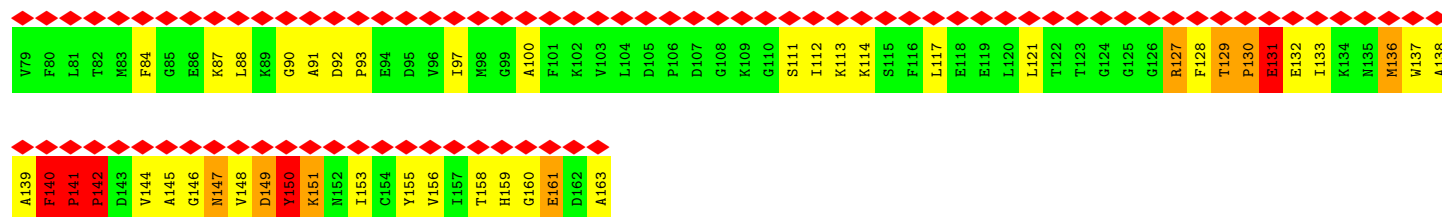
Chain K: 



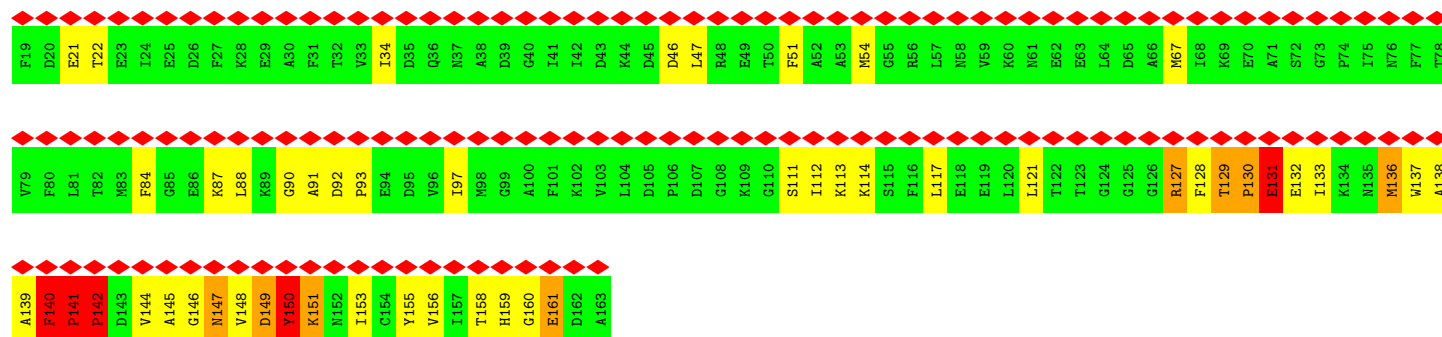
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

Chain N: 

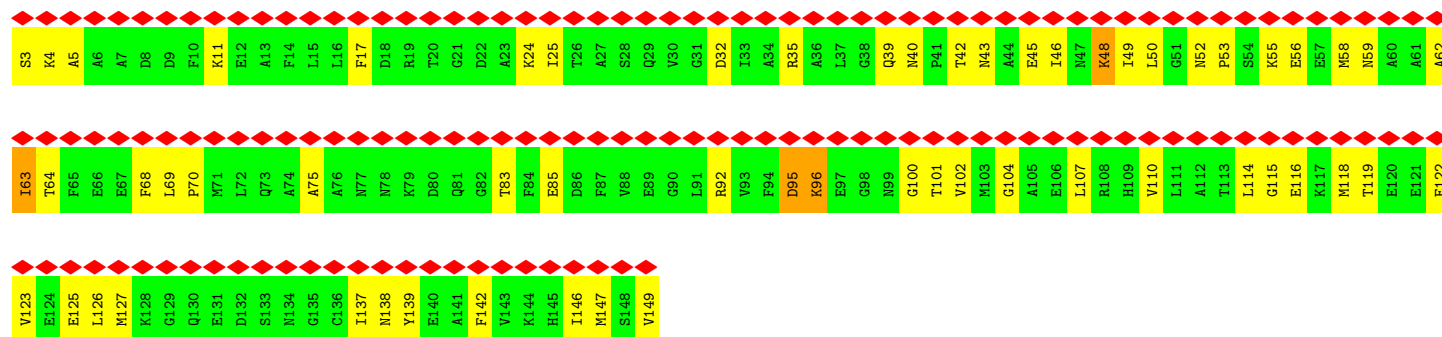




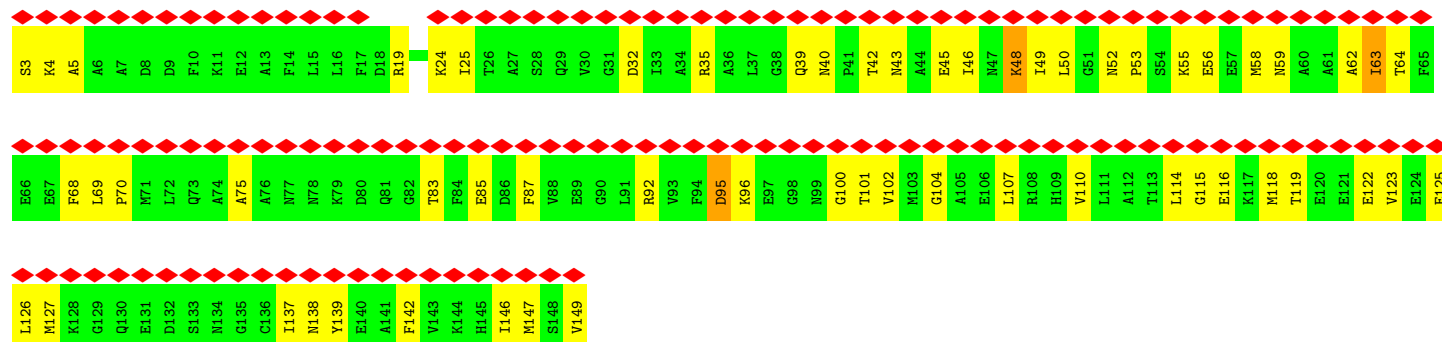
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN



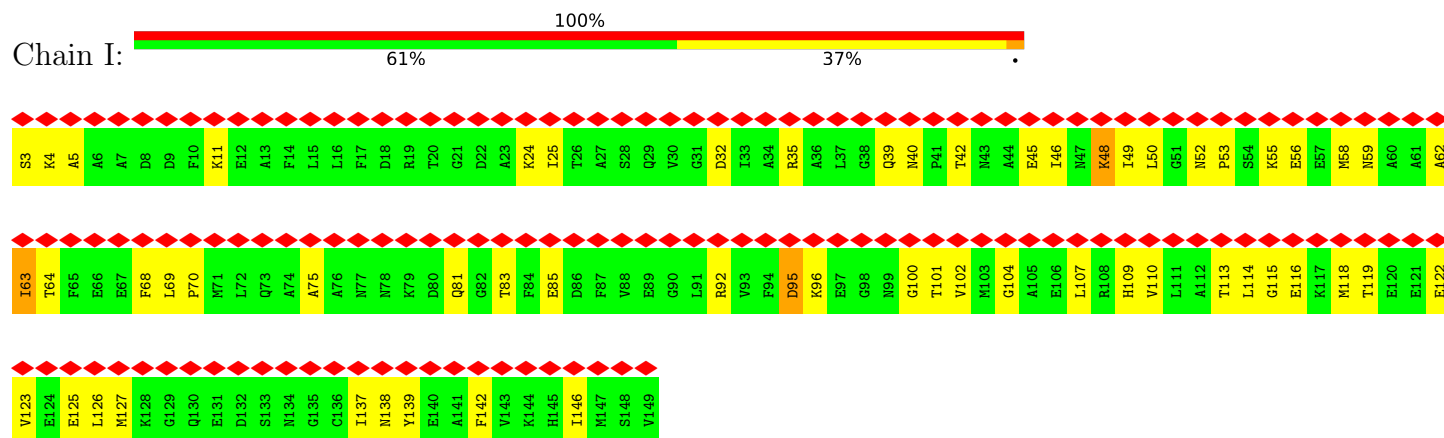
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



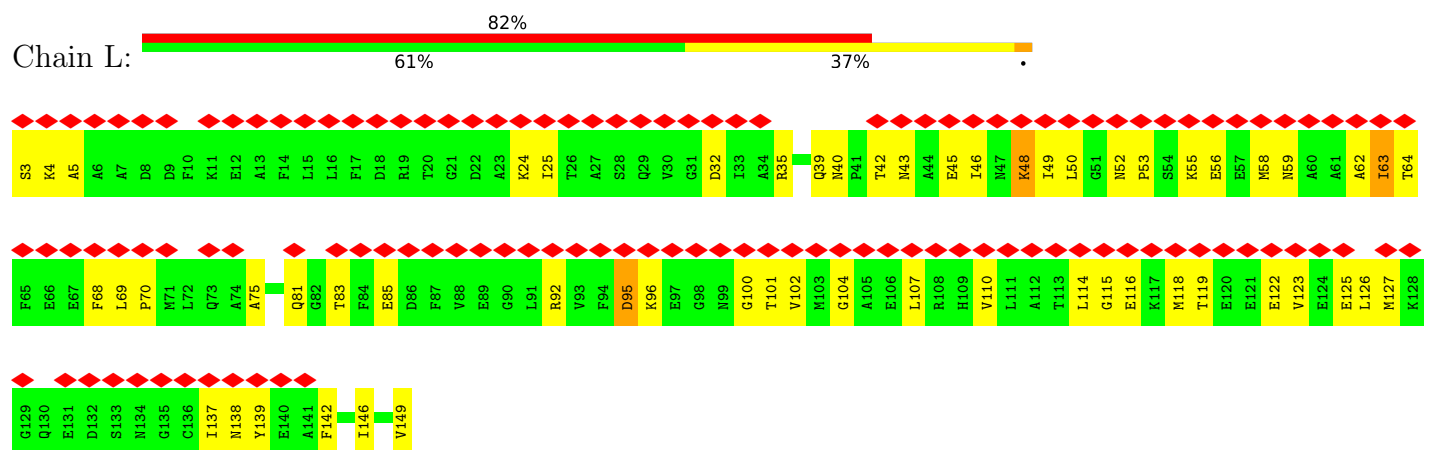
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



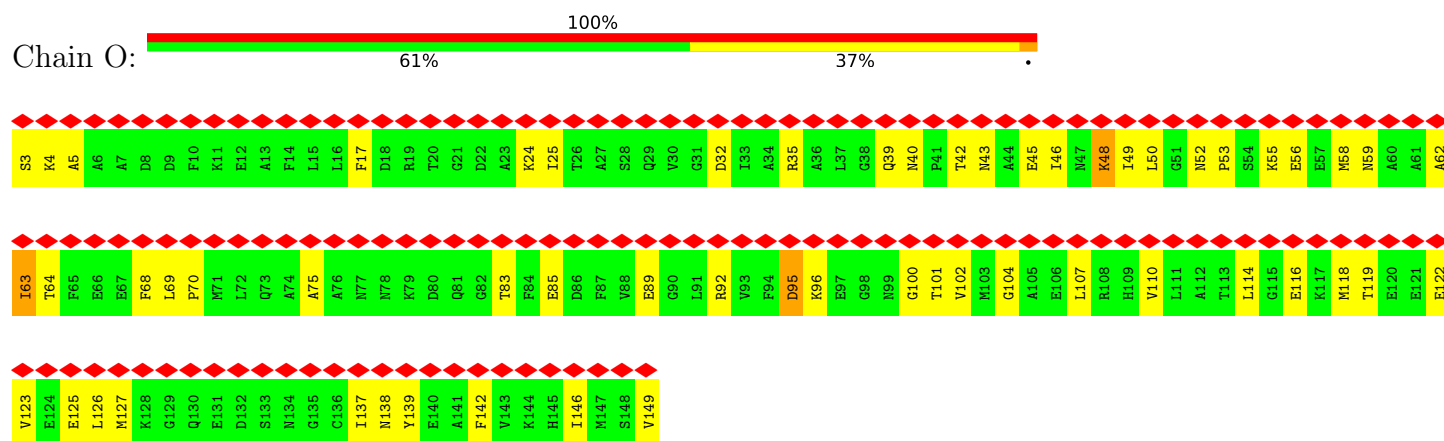
- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



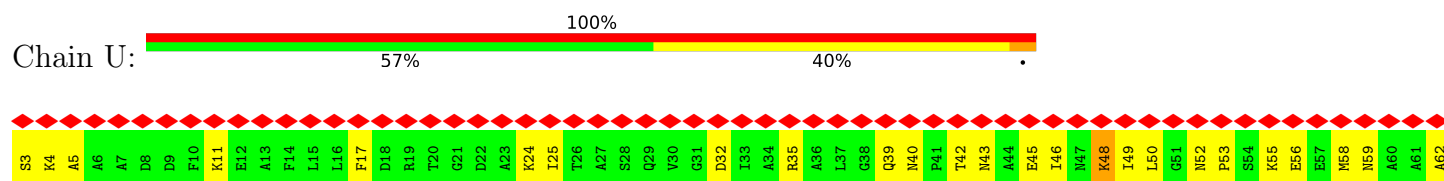
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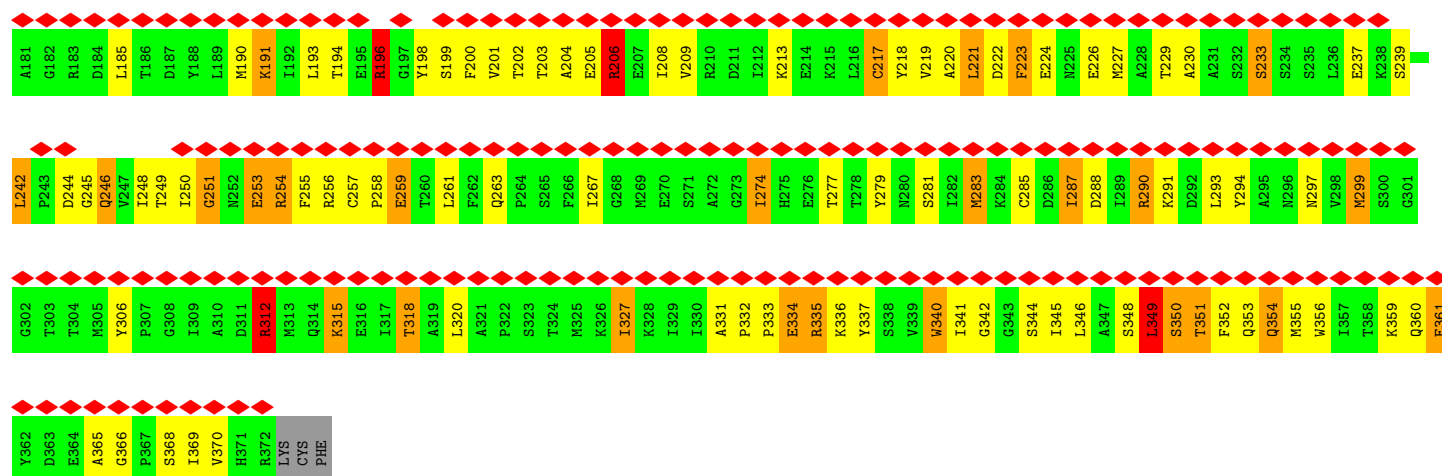


- Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN

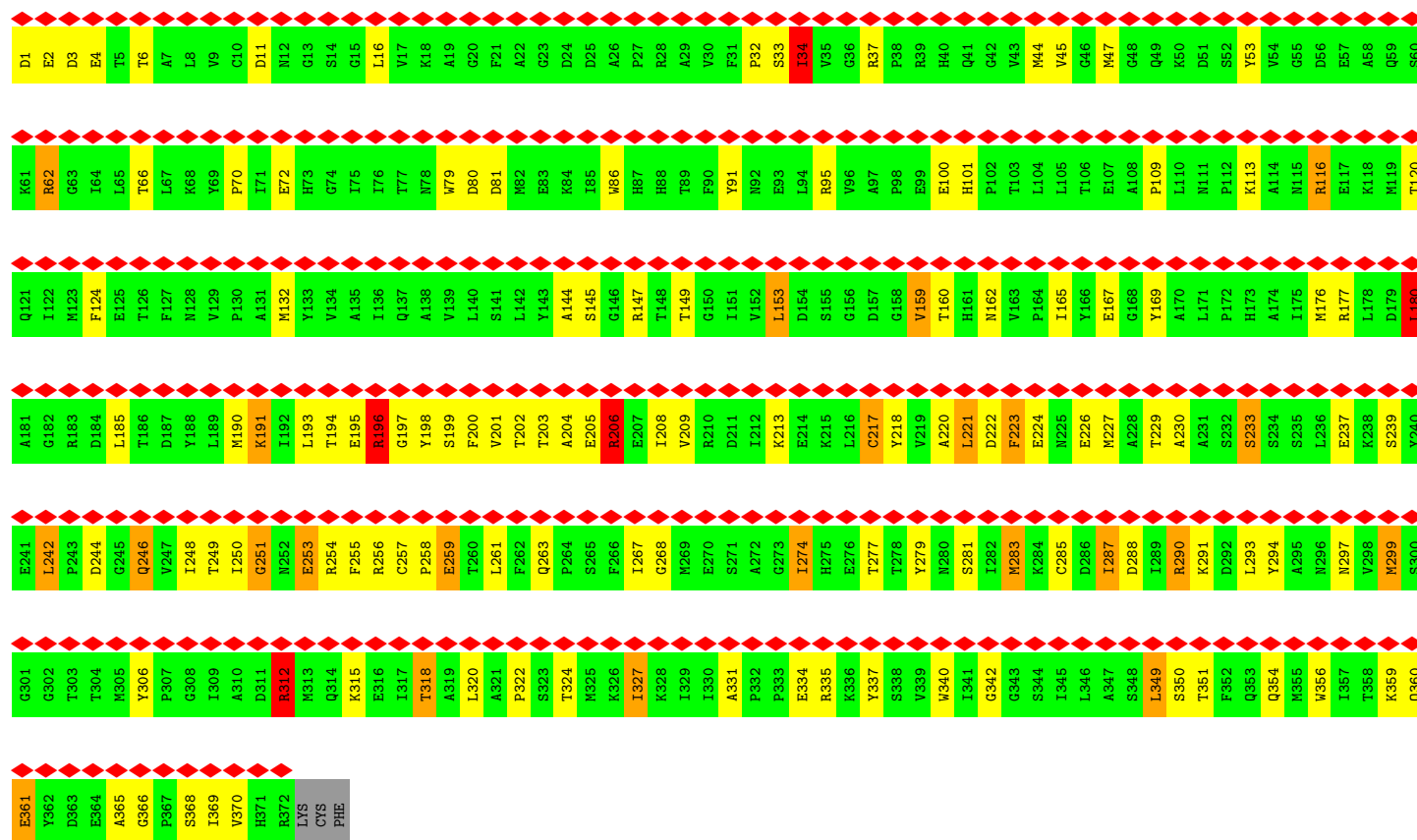




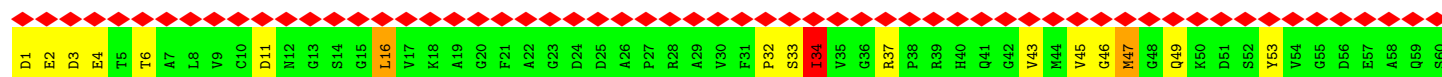


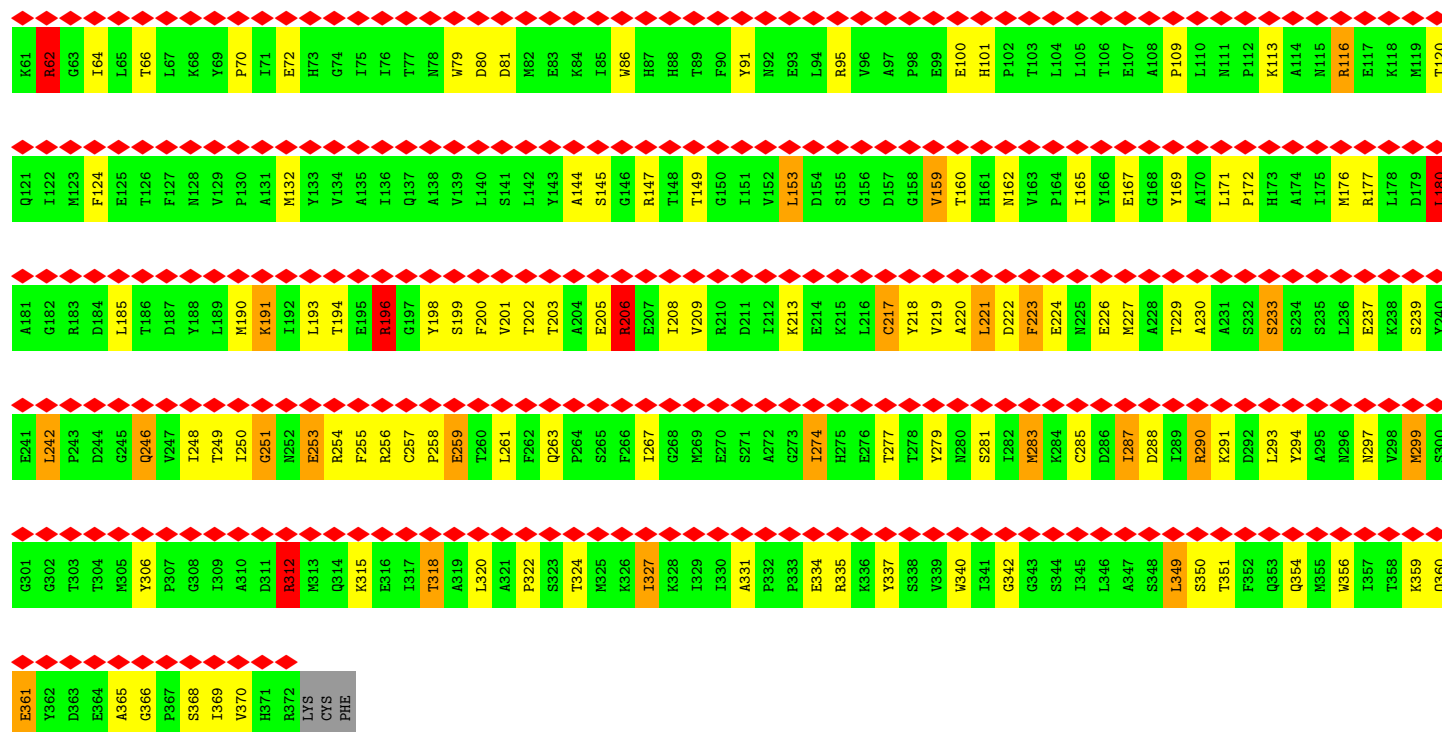


• Molecule 4: SKELETAL MUSCLE ACTIN

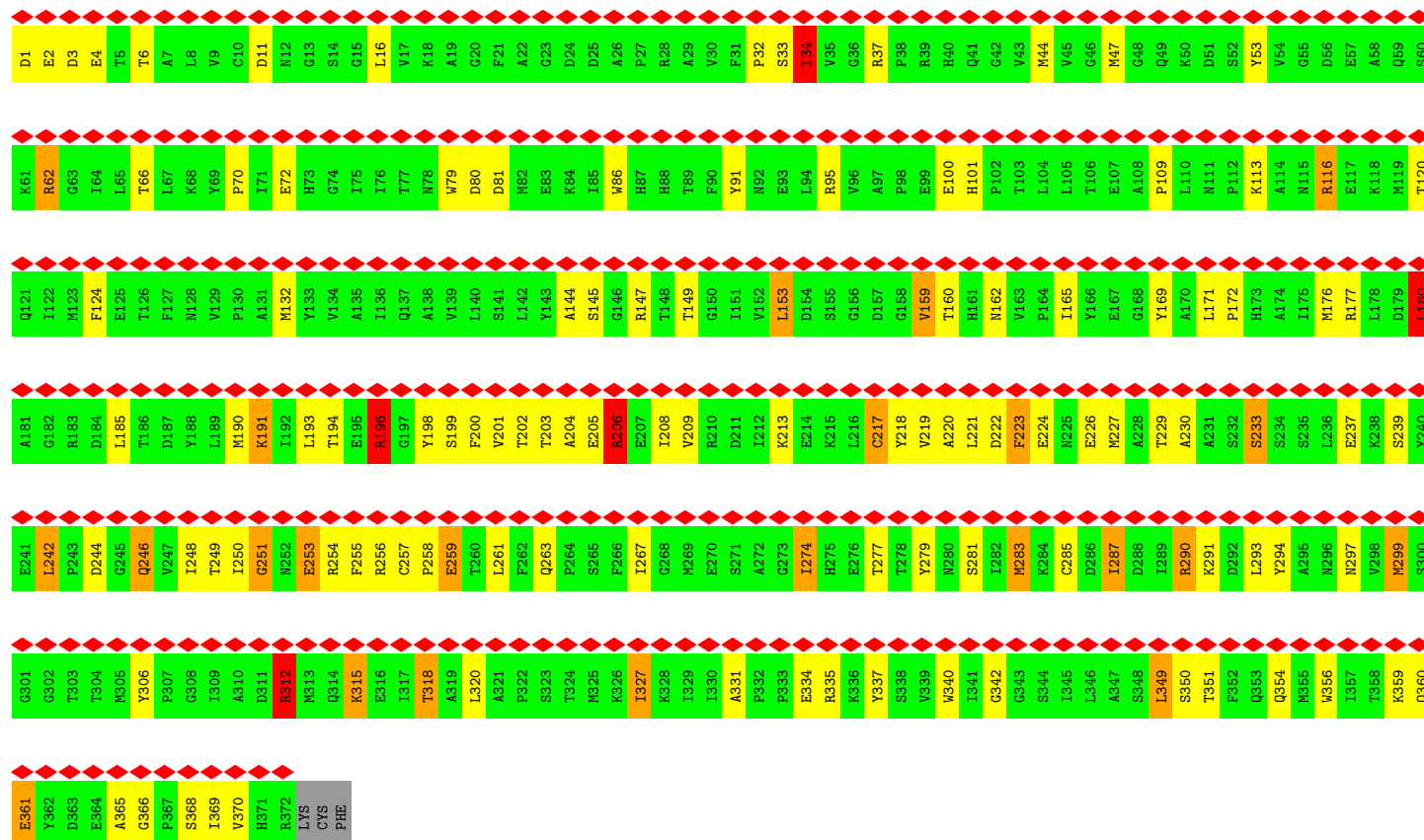


• Molecule 4: SKELETAL MUSCLE ACTIN

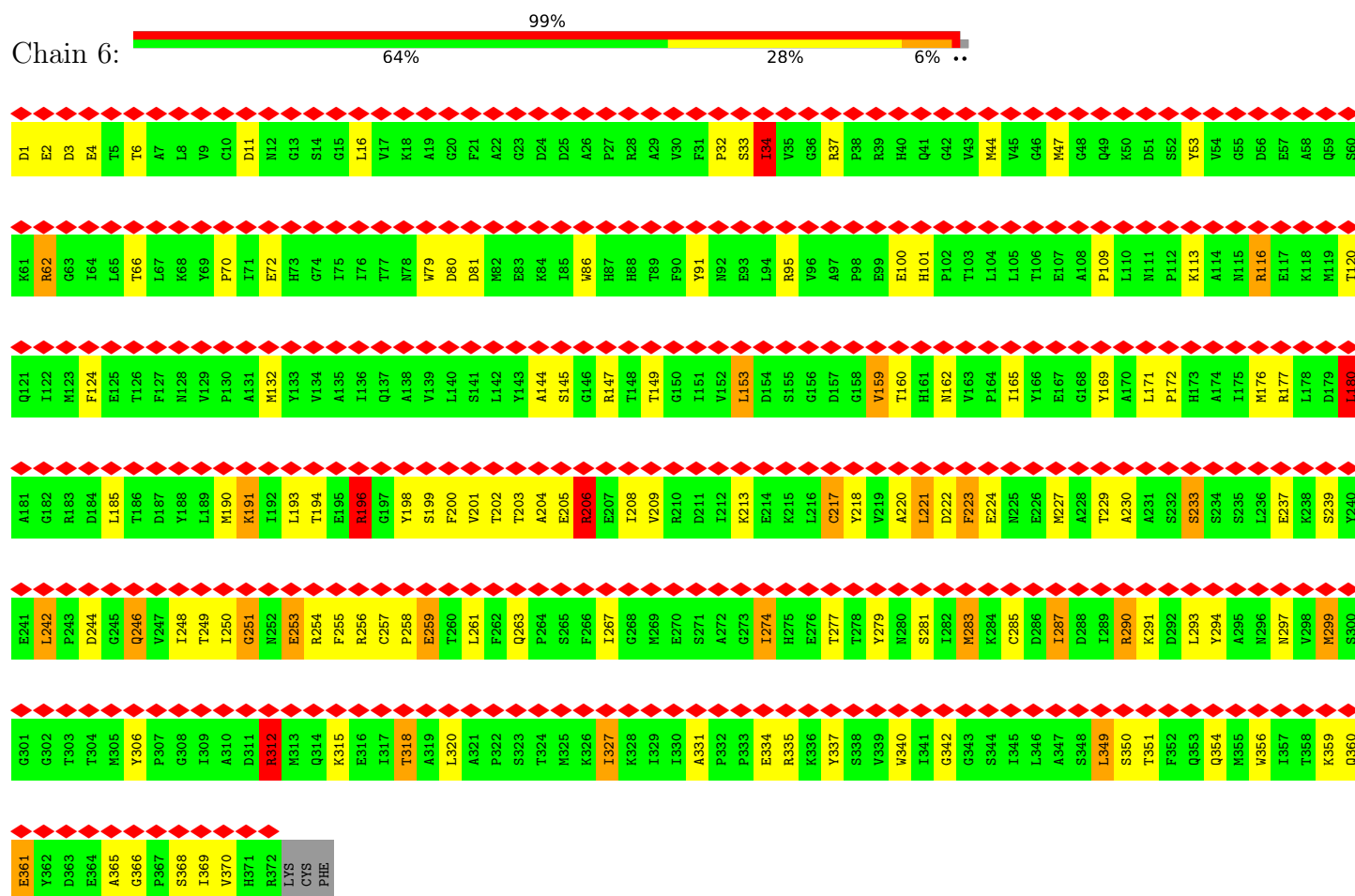




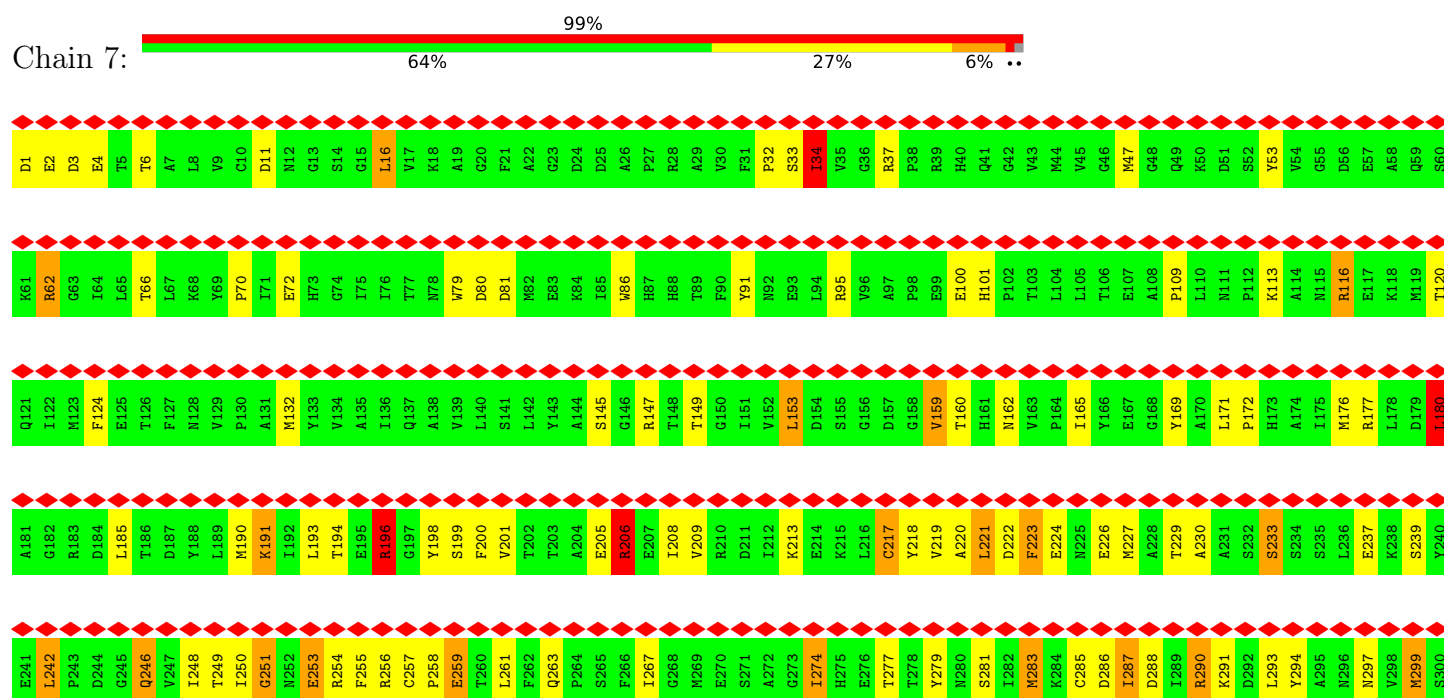
## ● Molecule 4: SKELETAL MUSCLE ACTIN



• Molecule 4: SKELETAL MUSCLE ACTIN

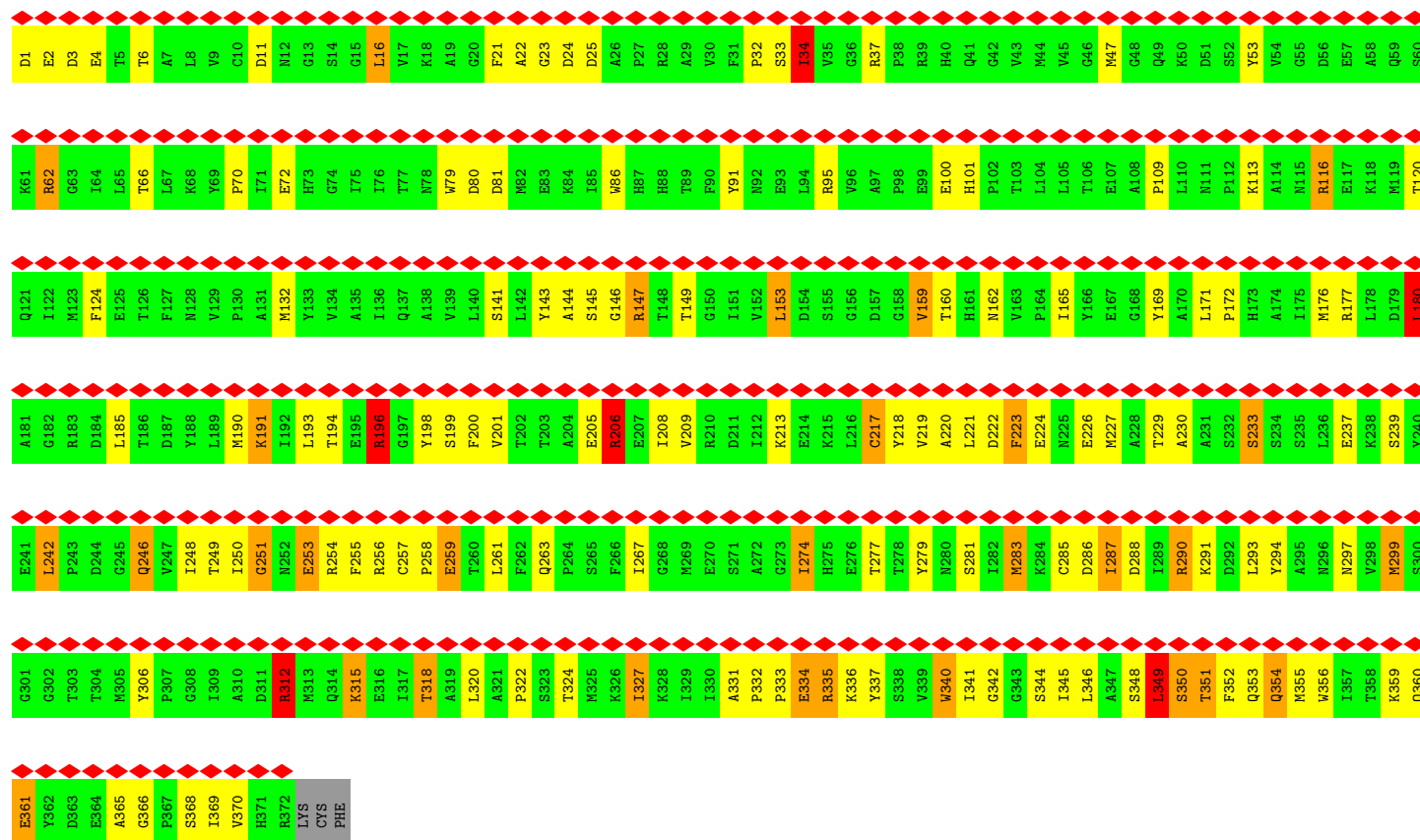


• Molecule 4: SKELETAL MUSCLE ACTIN

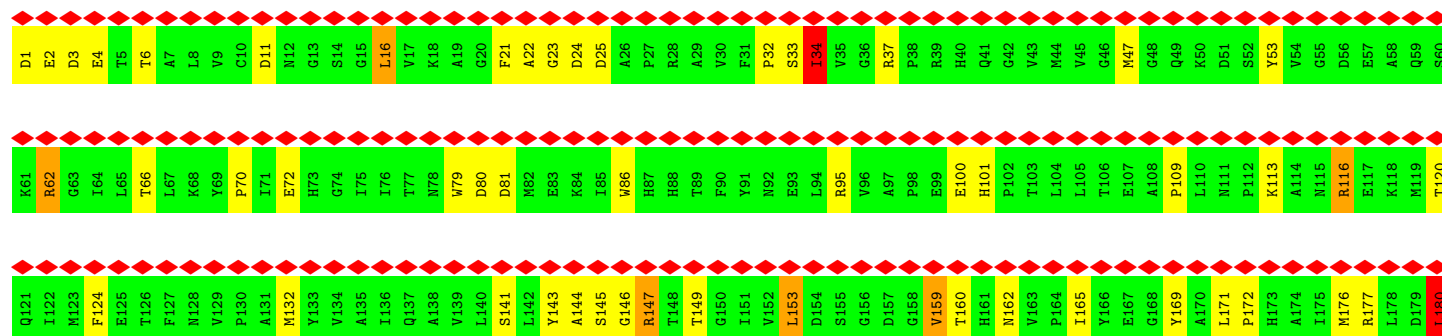


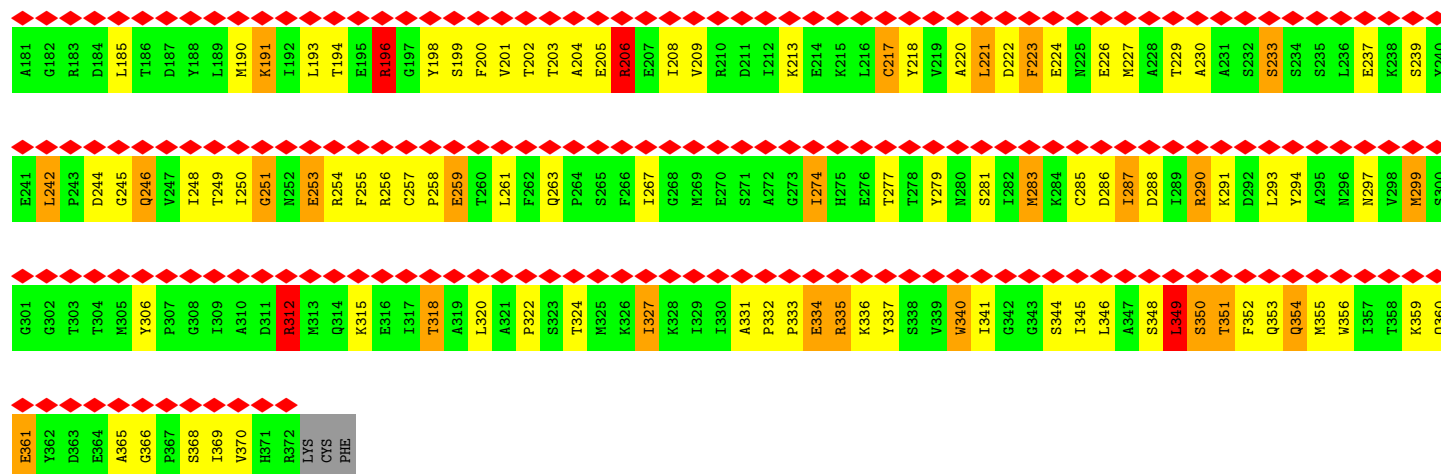


• Molecule 4: SKELETAL MUSCLE ACTIN

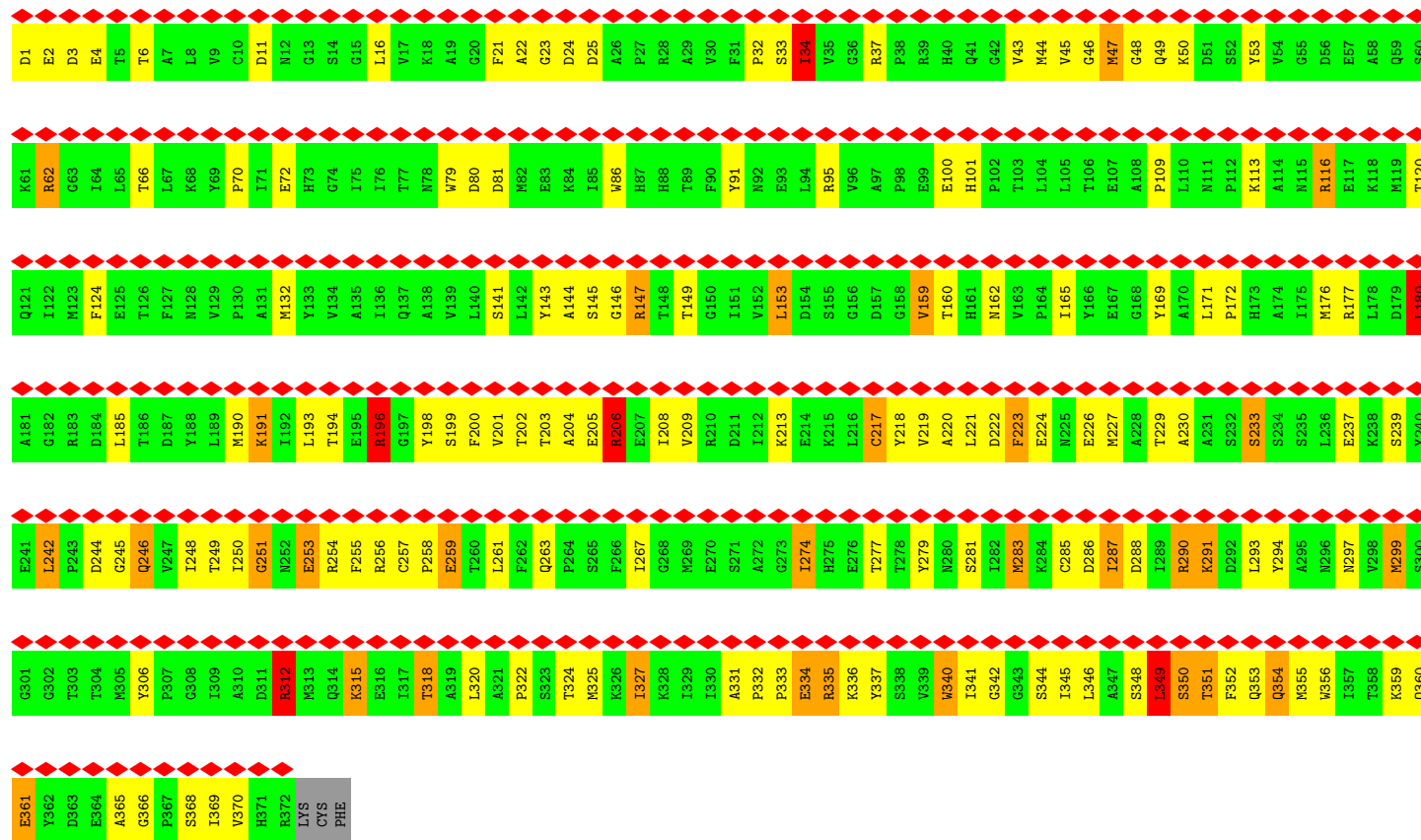


• Molecule 4: SKELETAL MUSCLE ACTIN



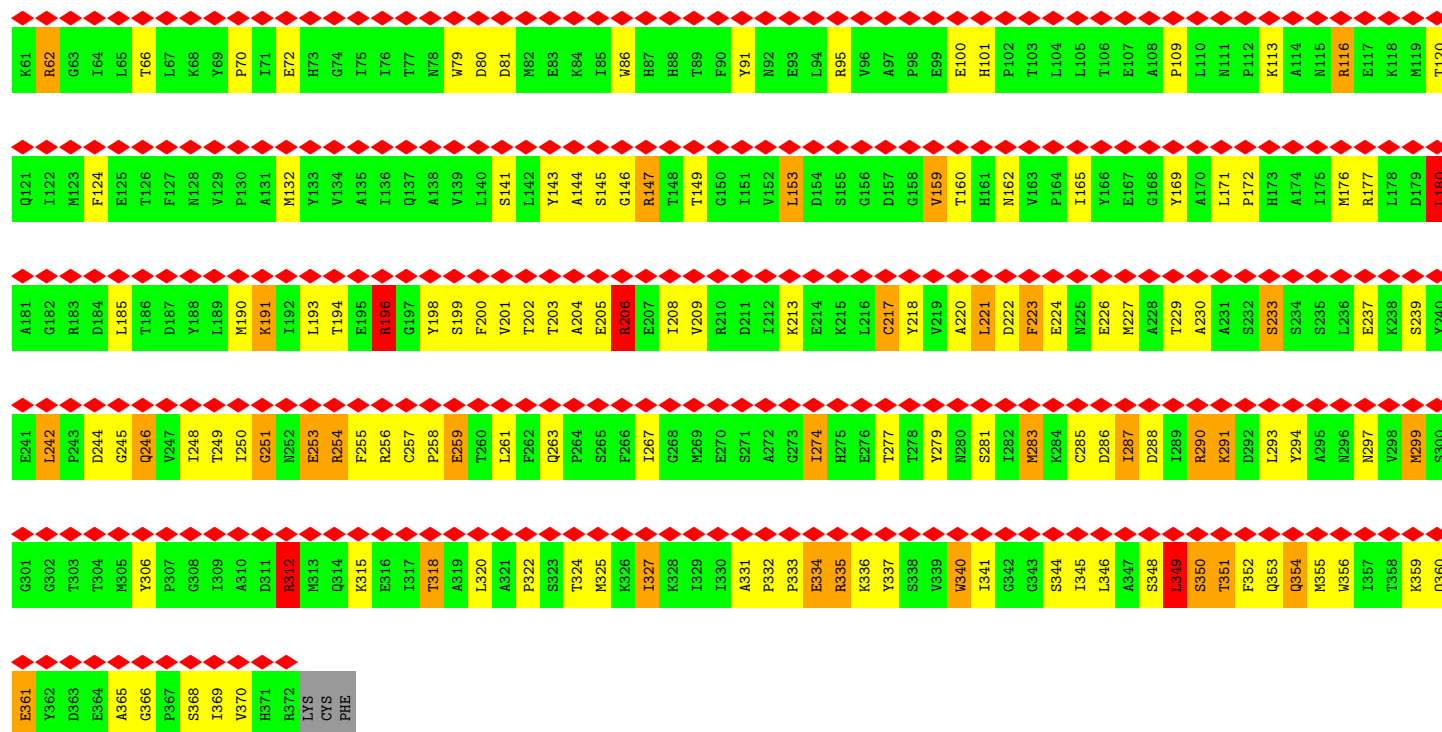


• Molecule 4: SKELETAL MUSCLE ACTIN

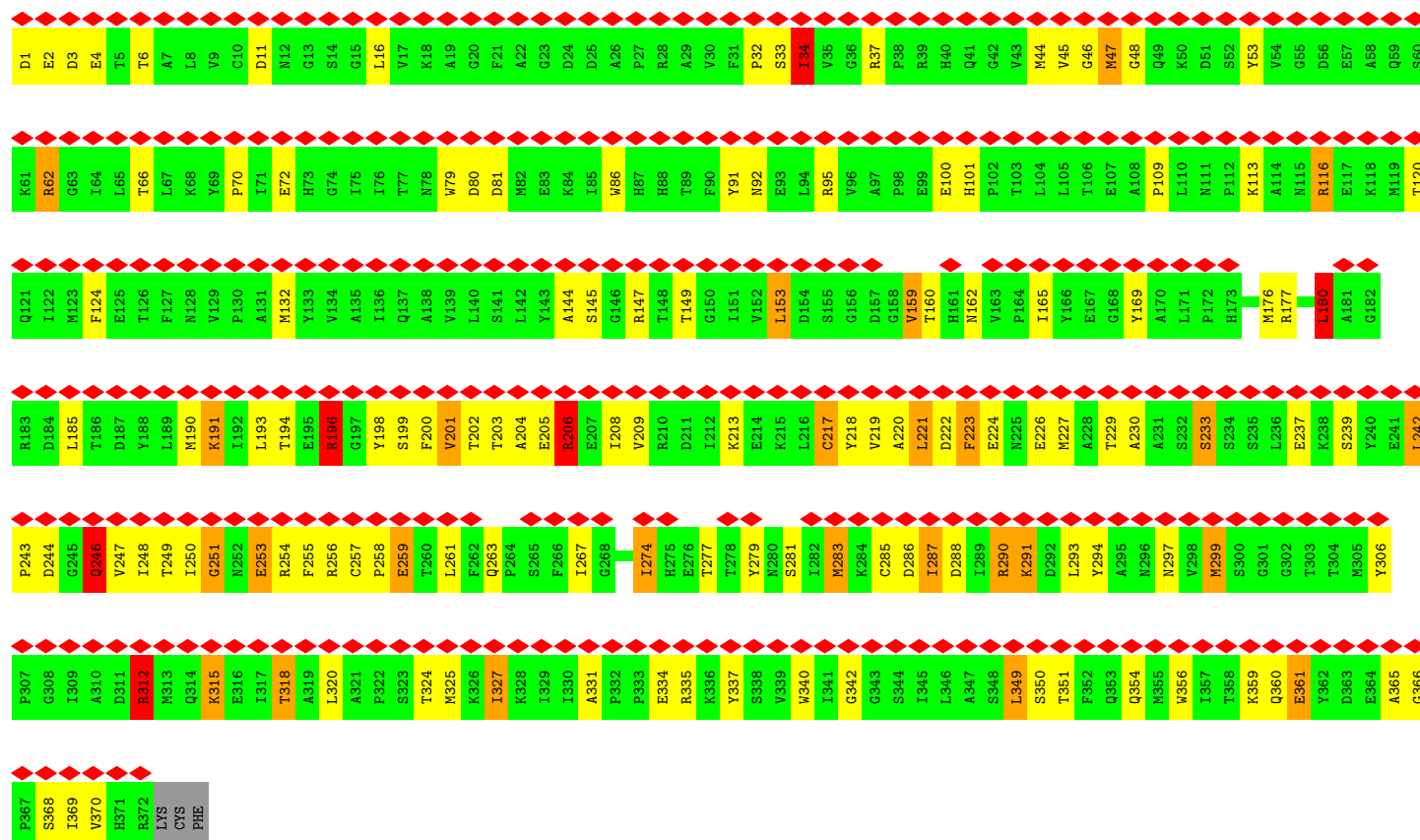
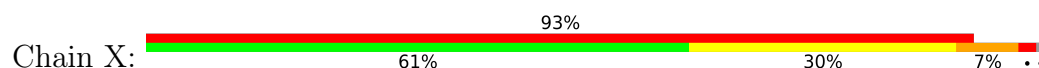


• Molecule 4: SKELETAL MUSCLE ACTIN



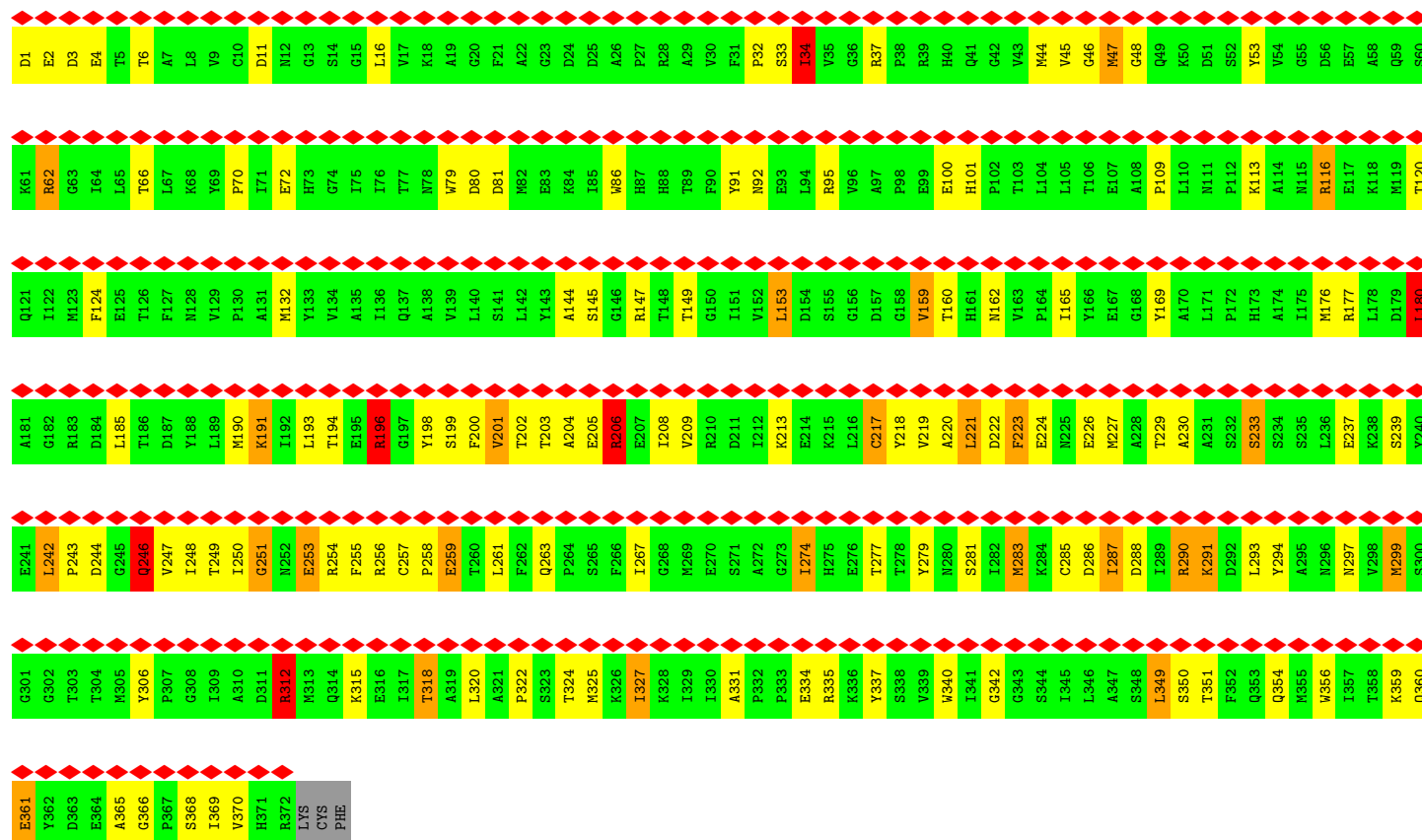


## ● Molecule 4: SKELETAL MUSCLE ACTIN



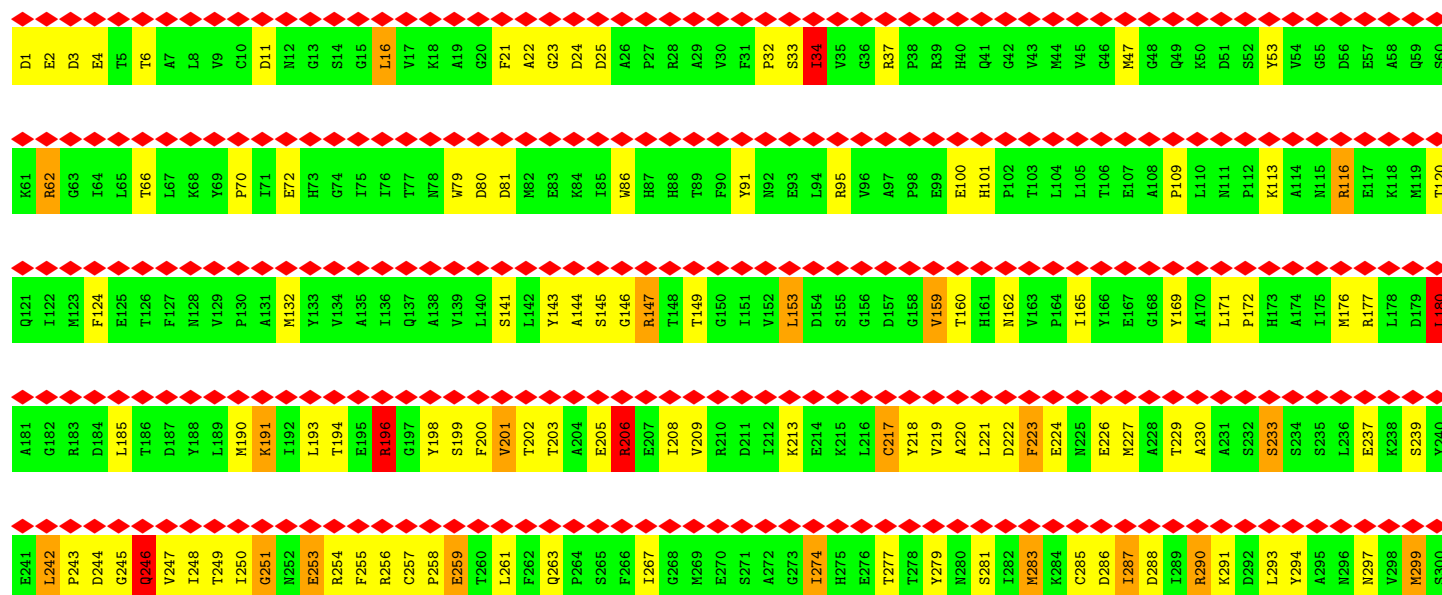
## ● Molecule 4: SKELETAL MUSCLE ACTIN

Chain Y: 



## ● Molecule 4: SKELETAL MUSCLE ACTIN

Chain Z: 





E361	G301
Y362	G302
D363	T303
E364	T304
A365	M305
G366	Y306
P367	P307
S368	G308
T369	T309
V370	A310
H371	D311
R372	R312
LYS	M313
CYS	Q314
PHE	K315
	E316
	I317
	T318
	A319
	L320
	A321
	P322
	S323
	T324
	M325
	K326
	T327
	K328
	I329
	T330
	A331
	P332
	P333
	E334
	R335
	K336
	Y337
	S338
	V339
	W340
	I341
	G342
	G343
	S344
	I345
	L346
	A347
	S348
	L349
	S350
	T351
	F352
	Q353
	Q354
	M355
	W356
	I357
	T358
	K359
	Q360

## 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	1.77	68/6448 (1.1%)	1.82	116/8729 (1.3%)
1	D	1.77	66/6448 (1.0%)	1.82	115/8729 (1.3%)
1	G	1.77	67/6449 (1.0%)	1.82	118/8732 (1.4%)
1	J	1.79	68/6449 (1.1%)	1.87	118/8732 (1.4%)
1	M	1.77	66/6447 (1.0%)	1.83	119/8726 (1.4%)
1	S	1.78	69/6446 (1.1%)	1.85	119/8723 (1.4%)
2	B	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	E	1.21	10/1148 (0.9%)	1.62	16/1548 (1.0%)
2	H	1.22	10/1148 (0.9%)	1.62	16/1548 (1.0%)
2	K	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	N	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	T	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
3	C	0.80	0/1136	0.95	4/1525 (0.3%)
3	F	0.80	0/1136	0.95	4/1525 (0.3%)
3	I	0.80	0/1136	0.95	4/1525 (0.3%)
3	L	0.79	0/1136	0.95	4/1525 (0.3%)
3	O	0.79	0/1136	0.95	4/1525 (0.3%)
3	U	0.80	0/1136	0.95	4/1525 (0.3%)
4	1	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	2	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	3	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	4	0.89	2/2968 (0.1%)	1.64	50/4023 (1.2%)
4	5	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	6	0.89	1/2968 (0.0%)	1.64	52/4023 (1.3%)
4	7	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	8	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	9	0.89	2/2968 (0.1%)	1.64	50/4023 (1.2%)
4	V	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	W	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	X	0.89	1/2968 (0.0%)	1.64	52/4023 (1.3%)
4	Y	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	Z	0.89	2/2968 (0.1%)	1.64	50/4023 (1.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
All	All	1.34	490/93943 (0.5%)	1.68	1542/127131 (1.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
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 (490) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	649	VAL	CB-CG1	53.33	2.64	1.52
1	S	649	VAL	CB-CG1	53.30	2.64	1.52
1	M	649	VAL	CB-CG1	53.28	2.64	1.52
1	G	649	VAL	CB-CG1	53.26	2.64	1.52
1	D	649	VAL	CB-CG1	53.22	2.64	1.52
1	A	649	VAL	CB-CG1	53.21	2.64	1.52
1	G	623	PHE	CB-CG	48.14	2.33	1.51
1	D	623	PHE	CB-CG	48.14	2.33	1.51
1	J	623	PHE	CB-CG	48.13	2.33	1.51
1	S	623	PHE	CB-CG	48.11	2.33	1.51
1	M	623	PHE	CB-CG	48.10	2.33	1.51
1	A	623	PHE	CB-CG	48.09	2.33	1.51
1	A	649	VAL	CB-CG2	46.26	2.50	1.52
1	G	649	VAL	CB-CG2	46.23	2.50	1.52
1	J	649	VAL	CB-CG2	46.21	2.49	1.52
1	S	649	VAL	CB-CG2	46.18	2.49	1.52
1	M	649	VAL	CB-CG2	46.15	2.49	1.52
1	D	649	VAL	CB-CG2	46.11	2.49	1.52
1	G	648	THR	CB-OG1	34.41	2.12	1.43
1	J	648	THR	CB-OG1	34.40	2.12	1.43
1	M	648	THR	CB-OG1	34.38	2.12	1.43
1	S	648	THR	CB-OG1	34.36	2.12	1.43
1	A	648	THR	CB-OG1	34.33	2.12	1.43
1	D	648	THR	CB-OG1	34.33	2.12	1.43
1	S	648	THR	CB-CG2	-30.71	0.51	1.52
1	M	648	THR	CB-CG2	-30.70	0.51	1.52
1	J	648	THR	CB-CG2	-30.70	0.51	1.52
1	A	648	THR	CB-CG2	-30.69	0.51	1.52
1	G	648	THR	CB-CG2	-30.65	0.51	1.52
1	D	648	THR	CB-CG2	-30.64	0.51	1.52
1	J	709	LYS	C-N	17.56	1.64	1.33
1	S	769	ALA	C-N	16.37	1.62	1.33
1	S	637	LYS	C-N	-15.05	1.05	1.33
1	M	637	LYS	C-N	-15.03	1.05	1.33
1	J	637	LYS	C-N	-14.99	1.06	1.33
1	D	637	LYS	C-N	-14.97	1.06	1.33
1	A	637	LYS	C-N	-14.81	1.06	1.33
1	G	637	LYS	C-N	-14.74	1.06	1.33
1	G	649	VAL	C-N	-13.50	1.02	1.34
1	A	649	VAL	C-N	-13.48	1.03	1.34
1	D	649	VAL	C-N	-13.45	1.03	1.34
1	M	649	VAL	C-N	-13.39	1.03	1.34
2	H	150	TYR	CB-CG	-13.37	1.31	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	649	VAL	C-N	-13.37	1.03	1.34
1	J	649	VAL	C-N	-13.32	1.03	1.34
2	T	150	TYR	CB-CG	-13.32	1.31	1.51
2	K	150	TYR	CB-CG	-13.31	1.31	1.51
2	E	150	TYR	CB-CG	-13.31	1.31	1.51
2	N	150	TYR	CB-CG	-13.29	1.31	1.51
2	B	150	TYR	CB-CG	-13.25	1.31	1.51
2	E	140	PHE	C-N	-12.98	1.09	1.34
2	B	140	PHE	C-N	-12.96	1.09	1.34
2	K	140	PHE	C-N	-12.90	1.09	1.34
2	N	140	PHE	C-N	-12.90	1.09	1.34
2	T	140	PHE	C-N	-12.87	1.09	1.34
2	H	140	PHE	C-N	-12.78	1.09	1.34
2	B	150	TYR	CG-CD2	-11.32	1.24	1.39
2	K	150	TYR	CG-CD2	-11.23	1.24	1.39
2	H	150	TYR	CG-CD2	-11.20	1.24	1.39
2	T	150	TYR	CG-CD2	-11.20	1.24	1.39
2	N	150	TYR	CG-CD2	-11.17	1.24	1.39
2	E	150	TYR	CG-CD2	-11.12	1.24	1.39
2	K	141	PRO	N-CD	-10.57	1.33	1.47
2	N	141	PRO	N-CD	-10.55	1.33	1.47
2	T	141	PRO	N-CD	-10.54	1.33	1.47
2	B	141	PRO	N-CD	-10.48	1.33	1.47
2	E	141	PRO	N-CD	-10.43	1.33	1.47
2	H	141	PRO	N-CD	-10.37	1.33	1.47
1	M	709	LYS	C-N	9.26	1.49	1.33
1	J	476	GLU	CD-OE1	8.92	1.35	1.25
1	M	476	GLU	CD-OE1	8.89	1.35	1.25
1	S	476	GLU	CD-OE1	8.86	1.35	1.25
1	J	785	GLU	C-N	8.77	1.54	1.34
1	D	476	GLU	CD-OE1	8.77	1.35	1.25
1	G	476	GLU	CD-OE1	8.73	1.35	1.25
1	A	622	LEU	C-N	8.72	1.54	1.34
1	M	622	LEU	C-N	8.72	1.54	1.34
1	J	622	LEU	C-N	8.71	1.54	1.34
1	A	476	GLU	CD-OE1	8.69	1.35	1.25
1	S	622	LEU	C-N	8.69	1.54	1.34
1	D	622	LEU	C-N	8.63	1.53	1.34
1	G	622	LEU	C-N	8.59	1.53	1.34
1	G	411	GLU	CD-OE1	8.32	1.34	1.25
1	M	745	GLU	CD-OE2	8.30	1.34	1.25
1	J	745	GLU	CD-OE2	8.27	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	150	TYR	CA-CB	-8.25	1.35	1.53
1	D	745	GLU	CD-OE2	8.25	1.34	1.25
1	J	411	GLU	CD-OE1	8.24	1.34	1.25
1	M	411	GLU	CD-OE1	8.24	1.34	1.25
2	N	150	TYR	CA-CB	-8.24	1.35	1.53
2	K	150	TYR	CA-CB	-8.24	1.35	1.53
1	S	745	GLU	CD-OE2	8.23	1.34	1.25
1	G	745	GLU	CD-OE2	8.22	1.34	1.25
2	H	150	TYR	CA-CB	-8.21	1.35	1.53
2	T	150	TYR	CA-CB	-8.20	1.35	1.53
1	S	411	GLU	CD-OE1	8.19	1.34	1.25
1	A	411	GLU	CD-OE1	8.18	1.34	1.25
1	D	411	GLU	CD-OE1	8.12	1.34	1.25
1	S	108	GLU	CD-OE1	8.09	1.34	1.25
2	E	150	TYR	CA-CB	-8.08	1.36	1.53
1	A	745	GLU	CD-OE2	8.08	1.34	1.25
1	A	381	GLU	CD-OE1	8.03	1.34	1.25
1	G	108	GLU	CD-OE1	7.98	1.34	1.25
1	M	108	GLU	CD-OE1	7.93	1.34	1.25
1	A	108	GLU	CD-OE1	7.91	1.34	1.25
1	G	381	GLU	CD-OE1	7.91	1.34	1.25
1	J	108	GLU	CD-OE1	7.84	1.34	1.25
1	M	381	GLU	CD-OE1	7.82	1.34	1.25
1	S	202	SER	CB-OG	7.81	1.52	1.42
1	S	381	GLU	CD-OE1	7.81	1.34	1.25
1	D	381	GLU	CD-OE1	7.78	1.34	1.25
1	J	381	GLU	CD-OE1	7.77	1.34	1.25
1	J	202	SER	CB-OG	7.76	1.52	1.42
1	A	202	SER	CB-OG	7.76	1.52	1.42
1	D	202	SER	CB-OG	7.73	1.52	1.42
1	G	202	SER	CB-OG	7.71	1.52	1.42
1	M	202	SER	CB-OG	7.68	1.52	1.42
1	D	108	GLU	CD-OE1	7.64	1.34	1.25
1	A	689	GLU	CD-OE2	7.55	1.33	1.25
1	G	689	GLU	CD-OE2	7.55	1.33	1.25
1	S	689	GLU	CD-OE2	7.54	1.33	1.25
1	D	689	GLU	CD-OE2	7.49	1.33	1.25
1	S	347	GLU	CD-OE1	7.46	1.33	1.25
1	A	347	GLU	CD-OE1	7.43	1.33	1.25
1	M	689	GLU	CD-OE2	7.43	1.33	1.25
1	J	689	GLU	CD-OE2	7.38	1.33	1.25
1	J	347	GLU	CD-OE1	7.37	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	23	GLU	CD-OE1	7.36	1.33	1.25
1	M	347	GLU	CD-OE1	7.33	1.33	1.25
1	D	23	GLU	CD-OE1	7.33	1.33	1.25
1	S	23	GLU	CD-OE1	7.30	1.33	1.25
1	J	23	GLU	CD-OE1	7.28	1.33	1.25
1	D	347	GLU	CD-OE1	7.27	1.33	1.25
1	G	347	GLU	CD-OE1	7.25	1.33	1.25
1	M	23	GLU	CD-OE1	7.24	1.33	1.25
1	G	23	GLU	CD-OE1	7.22	1.33	1.25
1	M	511	GLU	CD-OE1	7.19	1.33	1.25
1	J	511	GLU	CD-OE1	7.17	1.33	1.25
1	A	511	GLU	CD-OE1	7.16	1.33	1.25
1	S	511	GLU	CD-OE1	7.16	1.33	1.25
1	M	524	GLU	CD-OE1	7.09	1.33	1.25
1	S	785	GLU	C-N	-7.09	1.17	1.34
1	S	330	GLU	CD-OE1	7.08	1.33	1.25
1	J	330	GLU	CD-OE1	7.08	1.33	1.25
1	D	68	GLU	CD-OE2	7.07	1.33	1.25
1	J	524	GLU	CD-OE1	7.07	1.33	1.25
1	G	26	GLU	CD-OE1	7.06	1.33	1.25
1	S	524	GLU	CD-OE1	7.06	1.33	1.25
1	S	811	GLU	CD-OE1	7.04	1.33	1.25
1	G	68	GLU	CD-OE2	7.02	1.33	1.25
1	D	511	GLU	CD-OE1	6.99	1.33	1.25
1	M	330	GLU	CD-OE1	6.99	1.33	1.25
1	M	811	GLU	CD-OE1	6.98	1.33	1.25
1	D	524	GLU	CD-OE1	6.95	1.33	1.25
1	D	376	GLU	CD-OE1	6.95	1.33	1.25
1	G	376	GLU	CD-OE1	6.94	1.33	1.25
1	A	376	GLU	CD-OE1	6.93	1.33	1.25
1	G	330	GLU	CD-OE1	6.93	1.33	1.25
1	S	68	GLU	CD-OE2	6.93	1.33	1.25
1	D	26	GLU	CD-OE1	6.92	1.33	1.25
1	J	26	GLU	CD-OE1	6.92	1.33	1.25
1	S	26	GLU	CD-OE1	6.91	1.33	1.25
1	A	68	GLU	CD-OE2	6.89	1.33	1.25
1	A	655	GLU	CD-OE1	6.89	1.33	1.25
1	S	655	GLU	CD-OE1	6.89	1.33	1.25
1	A	524	GLU	CD-OE1	6.89	1.33	1.25
1	J	811	GLU	CD-OE1	6.88	1.33	1.25
1	J	68	GLU	CD-OE2	6.87	1.33	1.25
1	A	330	GLU	CD-OE1	6.86	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	376	GLU	CD-OE1	6.86	1.33	1.25
1	S	376	GLU	CD-OE1	6.86	1.33	1.25
1	D	811	GLU	CD-OE1	6.86	1.33	1.25
1	J	376	GLU	CD-OE1	6.85	1.33	1.25
1	G	524	GLU	CD-OE1	6.85	1.33	1.25
1	M	68	GLU	CD-OE2	6.83	1.33	1.25
1	A	26	GLU	CD-OE1	6.82	1.33	1.25
1	S	319	GLU	CD-OE1	6.81	1.33	1.25
1	M	26	GLU	CD-OE1	6.81	1.33	1.25
1	J	538	GLU	CD-OE1	6.80	1.33	1.25
1	G	511	GLU	CD-OE1	6.78	1.33	1.25
1	J	319	GLU	CD-OE1	6.78	1.33	1.25
1	M	319	GLU	CD-OE1	6.75	1.33	1.25
1	D	330	GLU	CD-OE1	6.72	1.33	1.25
1	A	811	GLU	CD-OE1	6.71	1.33	1.25
1	M	538	GLU	CD-OE1	6.70	1.33	1.25
1	J	655	GLU	CD-OE1	6.69	1.33	1.25
1	S	538	GLU	CD-OE1	6.69	1.33	1.25
1	G	655	GLU	CD-OE1	6.67	1.32	1.25
1	M	655	GLU	CD-OE1	6.66	1.32	1.25
1	G	811	GLU	CD-OE1	6.62	1.32	1.25
1	G	785	GLU	C-N	6.60	1.49	1.34
1	G	319	GLU	CD-OE1	6.59	1.32	1.25
1	A	538	GLU	CD-OE1	6.59	1.32	1.25
2	E	150	TYR	CD2-CE2	-6.59	1.29	1.39
1	D	655	GLU	CD-OE1	6.58	1.32	1.25
1	G	502	GLU	CD-OE2	6.58	1.32	1.25
1	G	538	GLU	CD-OE1	6.58	1.32	1.25
1	A	266	GLU	CD-OE2	6.55	1.32	1.25
1	D	319	GLU	CD-OE1	6.54	1.32	1.25
1	S	266	GLU	CD-OE2	6.54	1.32	1.25
1	D	538	GLU	CD-OE2	-6.53	1.18	1.25
1	G	99	GLU	CD-OE2	6.53	1.32	1.25
1	D	266	GLU	CD-OE2	6.52	1.32	1.25
1	D	538	GLU	CD-OE1	6.51	1.32	1.25
1	J	266	GLU	CD-OE2	6.51	1.32	1.25
1	M	266	GLU	CD-OE2	6.50	1.32	1.25
2	B	150	TYR	CD2-CE2	-6.49	1.29	1.39
1	G	89	GLU	CD-OE1	6.49	1.32	1.25
1	S	538	GLU	CD-OE2	-6.49	1.18	1.25
2	N	150	TYR	CD2-CE2	-6.48	1.29	1.39
1	D	99	GLU	CD-OE2	6.46	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	319	GLU	CD-OE1	6.45	1.32	1.25
1	S	89	GLU	CD-OE1	6.43	1.32	1.25
1	J	89	GLU	CD-OE1	6.41	1.32	1.25
1	M	538	GLU	CD-OE2	-6.41	1.18	1.25
1	A	502	GLU	CD-OE2	6.41	1.32	1.25
1	M	808	GLU	CD-OE1	6.40	1.32	1.25
1	A	605	GLU	CD-OE1	6.40	1.32	1.25
1	J	808	GLU	CD-OE1	6.40	1.32	1.25
1	A	89	GLU	CD-OE1	6.39	1.32	1.25
1	A	538	GLU	CD-OE2	-6.39	1.18	1.25
1	M	6	GLU	CD-OE1	6.38	1.32	1.25
1	S	6	GLU	CD-OE1	6.38	1.32	1.25
1	S	808	GLU	CD-OE1	6.38	1.32	1.25
1	M	89	GLU	CD-OE1	6.38	1.32	1.25
1	J	6	GLU	CD-OE1	6.37	1.32	1.25
1	G	266	GLU	CD-OE2	6.37	1.32	1.25
1	G	605	GLU	CD-OE1	6.36	1.32	1.25
1	A	808	GLU	CD-OE1	6.36	1.32	1.25
1	J	538	GLU	CD-OE2	-6.36	1.18	1.25
1	G	808	GLU	CD-OE1	6.35	1.32	1.25
2	T	150	TYR	CD2-CE2	-6.35	1.29	1.39
2	K	150	TYR	CD2-CE2	-6.34	1.29	1.39
1	D	6	GLU	CD-OE1	6.34	1.32	1.25
1	D	808	GLU	CD-OE1	6.33	1.32	1.25
1	G	802	GLU	CD-OE1	6.33	1.32	1.25
1	M	502	GLU	CD-OE2	6.33	1.32	1.25
2	B	150	TYR	N-CA	-6.32	1.33	1.46
1	S	99	GLU	CD-OE2	6.32	1.32	1.25
1	J	99	GLU	CD-OE2	6.31	1.32	1.25
4	Y	259	GLU	CG-CD	6.31	1.61	1.51
4	4	259	GLU	CG-CD	6.30	1.61	1.51
1	S	802	GLU	CD-OE1	6.30	1.32	1.25
1	G	538	GLU	CD-OE2	-6.30	1.18	1.25
4	6	259	GLU	CG-CD	6.30	1.61	1.51
2	H	150	TYR	CD2-CE2	-6.29	1.29	1.39
1	D	89	GLU	CD-OE1	6.29	1.32	1.25
1	M	99	GLU	CD-OE2	6.28	1.32	1.25
1	M	605	GLU	CD-OE1	6.27	1.32	1.25
1	A	6	GLU	CD-OE1	6.27	1.32	1.25
1	J	502	GLU	CD-OE2	6.27	1.32	1.25
1	J	802	GLU	CD-OE1	6.26	1.32	1.25
4	9	259	GLU	CG-CD	6.26	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	6	GLU	CD-OE1	6.26	1.32	1.25
4	X	259	GLU	CG-CD	6.26	1.61	1.51
1	S	502	GLU	CD-OE2	6.26	1.32	1.25
1	D	502	GLU	CD-OE2	6.25	1.32	1.25
4	3	259	GLU	CG-CD	6.25	1.61	1.51
4	5	259	GLU	CG-CD	6.24	1.61	1.51
4	W	259	GLU	CG-CD	6.24	1.61	1.51
2	T	150	TYR	N-CA	-6.24	1.33	1.46
1	S	605	GLU	CD-OE1	6.23	1.32	1.25
2	H	150	TYR	N-CA	-6.23	1.33	1.46
1	D	802	GLU	CD-OE1	6.23	1.32	1.25
4	V	259	GLU	CG-CD	6.22	1.61	1.51
4	2	259	GLU	CG-CD	6.21	1.61	1.51
1	D	605	GLU	CD-OE1	6.21	1.32	1.25
4	7	259	GLU	CG-CD	6.21	1.61	1.51
4	1	259	GLU	CG-CD	6.20	1.61	1.51
2	N	150	TYR	N-CA	-6.20	1.33	1.46
4	Z	259	GLU	CG-CD	6.19	1.61	1.51
1	D	509	GLU	CD-OE1	6.18	1.32	1.25
1	A	99	GLU	CD-OE2	6.18	1.32	1.25
1	J	605	GLU	CD-OE1	6.18	1.32	1.25
2	K	150	TYR	N-CA	-6.17	1.34	1.46
1	G	509	GLU	CD-OE1	6.16	1.32	1.25
4	8	259	GLU	CG-CD	6.16	1.61	1.51
1	M	329	GLU	CD-OE1	6.14	1.32	1.25
2	E	150	TYR	N-CA	-6.14	1.34	1.46
1	A	509	GLU	CD-OE1	6.14	1.32	1.25
1	A	329	GLU	CD-OE1	6.13	1.32	1.25
1	M	509	GLU	CD-OE1	6.13	1.32	1.25
1	S	329	GLU	CD-OE1	6.12	1.32	1.25
1	J	329	GLU	CD-OE1	6.07	1.32	1.25
1	A	417	GLU	CD-OE1	6.06	1.32	1.25
1	J	509	GLU	CD-OE1	6.06	1.32	1.25
1	M	230	GLU	CD-OE2	6.05	1.32	1.25
1	S	230	GLU	CD-OE2	6.03	1.32	1.25
1	M	802	GLU	CD-OE1	6.02	1.32	1.25
1	G	476	GLU	CD-OE2	-6.00	1.19	1.25
1	D	417	GLU	CD-OE1	5.96	1.32	1.25
1	J	527	GLU	CD-OE1	5.94	1.32	1.25
1	M	417	GLU	CD-OE1	5.93	1.32	1.25
1	G	417	GLU	CD-OE1	5.93	1.32	1.25
1	G	329	GLU	CD-OE1	5.93	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	329	GLU	CD-OE1	5.93	1.32	1.25
1	S	509	GLU	CD-OE1	5.92	1.32	1.25
1	J	540	CYS	CB-SG	-5.90	1.72	1.81
1	J	230	GLU	CD-OE2	5.89	1.32	1.25
1	A	476	GLU	CD-OE2	-5.88	1.19	1.25
1	G	540	CYS	CB-SG	-5.87	1.72	1.81
1	J	417	GLU	CD-OE1	5.87	1.32	1.25
1	J	476	GLU	CD-OE2	-5.85	1.19	1.25
1	A	802	GLU	CD-OE1	5.85	1.32	1.25
1	D	785	GLU	CD-OE2	5.85	1.32	1.25
1	M	540	CYS	CB-SG	-5.85	1.72	1.81
1	D	468	GLU	CD-OE1	5.83	1.32	1.25
1	A	74	GLU	CD-OE2	5.82	1.32	1.25
1	G	230	GLU	CD-OE2	5.82	1.32	1.25
1	G	218	LEU	CB-CG	5.82	1.69	1.52
1	M	527	GLU	CD-OE1	5.81	1.32	1.25
1	S	540	CYS	CB-SG	-5.81	1.72	1.81
1	D	230	GLU	CD-OE2	5.81	1.32	1.25
1	M	74	GLU	CD-OE2	5.79	1.32	1.25
1	A	468	GLU	CD-OE1	5.79	1.32	1.25
1	S	417	GLU	CD-OE1	5.79	1.32	1.25
1	S	74	GLU	CD-OE2	5.78	1.32	1.25
1	M	499	GLU	CD-OE2	5.78	1.32	1.25
1	M	468	GLU	CD-OE1	5.78	1.32	1.25
1	J	499	GLU	CD-OE2	5.78	1.32	1.25
1	J	74	GLU	CD-OE2	5.77	1.32	1.25
1	S	476	GLU	CD-OE2	-5.77	1.19	1.25
1	S	499	GLU	CD-OE2	5.77	1.31	1.25
1	J	468	GLU	CD-OE1	5.77	1.31	1.25
1	A	230	GLU	CD-OE2	5.75	1.31	1.25
1	M	421	GLU	CD-OE2	5.75	1.31	1.25
1	M	476	GLU	CD-OE2	-5.75	1.19	1.25
1	D	540	CYS	CB-SG	-5.75	1.72	1.81
1	S	468	GLU	CD-OE1	5.75	1.31	1.25
1	J	421	GLU	CD-OE2	5.75	1.31	1.25
1	J	597	GLU	CD-OE1	5.75	1.31	1.25
1	S	785	GLU	CD-OE2	5.75	1.31	1.25
1	A	785	GLU	CD-OE2	5.73	1.31	1.25
1	S	527	GLU	CD-OE1	5.73	1.31	1.25
1	A	597	GLU	CD-OE1	5.73	1.31	1.25
1	D	476	GLU	CD-OE2	-5.72	1.19	1.25
1	G	597	GLU	CD-OE1	5.72	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	218	LEU	CB-CG	5.71	1.69	1.52
1	A	625	THR	CB-CG2	5.71	1.71	1.52
1	J	625	THR	CB-CG2	5.71	1.71	1.52
1	A	540	CYS	CB-SG	-5.70	1.72	1.81
1	G	74	GLU	CD-OE2	5.70	1.31	1.25
1	M	625	THR	CB-CG2	5.70	1.71	1.52
1	S	625	THR	CB-CG2	5.70	1.71	1.52
1	S	421	GLU	CD-OE2	5.69	1.31	1.25
1	J	218	LEU	CB-CG	5.68	1.69	1.52
1	D	625	THR	CB-CG2	5.67	1.71	1.52
1	A	527	GLU	CD-OE1	5.67	1.31	1.25
1	G	785	GLU	CD-OE2	5.67	1.31	1.25
1	G	625	THR	CB-CG2	5.65	1.71	1.52
1	S	218	LEU	CB-CG	5.65	1.69	1.52
1	A	218	LEU	CB-CG	5.64	1.69	1.52
1	M	218	LEU	CB-CG	5.64	1.69	1.52
1	D	597	GLU	CD-OE1	5.63	1.31	1.25
1	D	499	GLU	CD-OE2	5.63	1.31	1.25
1	G	527	GLU	CD-OE1	5.63	1.31	1.25
1	J	785	GLU	CD-OE2	5.61	1.31	1.25
1	M	785	GLU	CD-OE2	5.61	1.31	1.25
1	D	74	GLU	CD-OE2	5.60	1.31	1.25
1	D	687	GLU	CD-OE1	5.60	1.31	1.25
1	G	687	GLU	CD-OE1	5.59	1.31	1.25
1	A	687	GLU	CD-OE1	5.59	1.31	1.25
1	J	373	GLU	CD-OE1	5.59	1.31	1.25
1	M	687	GLU	CD-OE1	5.58	1.31	1.25
1	A	421	GLU	CD-OE2	5.58	1.31	1.25
2	H	150	TYR	CE1-CZ	5.58	1.45	1.38
1	G	468	GLU	CD-OE1	5.56	1.31	1.25
1	G	373	GLU	CD-OE1	5.55	1.31	1.25
1	S	687	GLU	CD-OE1	5.54	1.31	1.25
1	J	687	GLU	CD-OE1	5.53	1.31	1.25
1	S	373	GLU	CD-OE1	5.53	1.31	1.25
1	S	597	GLU	CD-OE1	5.53	1.31	1.25
1	D	373	GLU	CD-OE1	5.52	1.31	1.25
1	D	527	GLU	CD-OE1	5.52	1.31	1.25
1	M	597	GLU	CD-OE1	5.52	1.31	1.25
1	G	298	GLU	CD-OE2	5.51	1.31	1.25
1	G	499	GLU	CD-OE2	5.51	1.31	1.25
2	K	131	GLU	N-CA	5.51	1.57	1.46
2	E	150	TYR	CE1-CZ	5.51	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	373	GLU	CD-OE1	5.49	1.31	1.25
1	M	777	GLU	CD-OE2	5.49	1.31	1.25
1	G	506	GLU	CD-OE2	5.49	1.31	1.25
1	G	421	GLU	CD-OE2	5.47	1.31	1.25
1	A	373	GLU	CD-OE1	5.47	1.31	1.25
1	J	777	GLU	CD-OE2	5.46	1.31	1.25
1	A	777	GLU	CD-OE2	5.46	1.31	1.25
2	T	131	GLU	N-CA	5.45	1.57	1.46
2	B	150	TYR	CE1-CZ	5.44	1.45	1.38
1	D	777	GLU	CD-OE2	5.43	1.31	1.25
1	S	298	GLU	CD-OE2	5.43	1.31	1.25
1	A	479	CYS	CB-SG	-5.43	1.73	1.81
1	A	499	GLU	CD-OE2	5.42	1.31	1.25
2	N	131	GLU	N-CA	5.42	1.57	1.46
1	A	65	GLU	CD-OE1	5.41	1.31	1.25
1	G	777	GLU	CD-OE2	5.40	1.31	1.25
2	H	131	GLU	N-CA	5.40	1.57	1.46
1	G	479	CYS	CB-SG	-5.40	1.73	1.81
1	S	777	GLU	CD-OE2	5.39	1.31	1.25
1	A	506	GLU	CD-OE2	5.39	1.31	1.25
1	S	479	CYS	CB-SG	-5.39	1.73	1.81
1	D	218	LEU	C-N	-5.37	1.21	1.34
1	D	421	GLU	CD-OE2	5.37	1.31	1.25
1	D	298	GLU	CD-OE2	5.36	1.31	1.25
2	E	131	GLU	N-CA	5.36	1.57	1.46
1	A	218	LEU	C-N	-5.36	1.21	1.34
2	B	131	GLU	N-CA	5.35	1.57	1.46
2	N	150	TYR	CE1-CZ	5.35	1.45	1.38
1	J	218	LEU	C-N	-5.35	1.21	1.34
2	T	150	TYR	CE1-CZ	5.35	1.45	1.38
1	M	479	CYS	CB-SG	-5.35	1.73	1.81
2	K	150	TYR	CE1-CZ	5.34	1.45	1.38
1	M	218	LEU	C-N	-5.34	1.21	1.34
1	D	65	GLU	CD-OE1	5.34	1.31	1.25
1	J	479	CYS	CB-SG	-5.31	1.73	1.81
1	J	679	GLU	CD-OE2	5.31	1.31	1.25
1	S	218	LEU	C-N	-5.31	1.21	1.34
1	G	218	LEU	C-N	-5.31	1.21	1.34
1	S	679	GLU	CD-OE2	5.29	1.31	1.25
1	J	65	GLU	CD-OE1	5.29	1.31	1.25
1	M	679	GLU	CD-OE2	5.28	1.31	1.25
1	G	679	GLU	CD-OE2	5.26	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	298	GLU	CD-OE2	5.26	1.31	1.25
1	J	298	GLU	CD-OE2	5.26	1.31	1.25
1	S	527	GLU	CD-OE2	-5.26	1.19	1.25
1	D	679	GLU	CD-OE2	5.25	1.31	1.25
1	M	298	GLU	CD-OE2	5.25	1.31	1.25
2	K	149	ASP	CB-CG	5.25	1.62	1.51
1	D	479	CYS	CB-SG	-5.25	1.73	1.81
1	M	65	GLU	CD-OE1	5.23	1.31	1.25
1	S	21	GLU	CD-OE2	5.22	1.31	1.25
1	S	702	GLU	CD-OE2	5.22	1.31	1.25
1	G	65	GLU	CD-OE1	5.21	1.31	1.25
2	N	149	ASP	CB-CG	5.21	1.62	1.51
1	D	282	GLU	CD-OE1	5.21	1.31	1.25
1	D	702	GLU	CD-OE2	5.21	1.31	1.25
1	J	702	GLU	CD-OE2	5.20	1.31	1.25
1	S	506	GLU	CD-OE2	5.20	1.31	1.25
1	J	506	GLU	CD-OE2	5.19	1.31	1.25
1	S	65	GLU	CD-OE1	5.18	1.31	1.25
1	M	527	GLU	CD-OE2	-5.18	1.20	1.25
2	T	149	ASP	CB-CG	5.18	1.62	1.51
1	A	679	GLU	CD-OE2	5.18	1.31	1.25
1	J	527	GLU	CD-OE2	-5.17	1.20	1.25
1	A	21	GLU	CD-OE2	5.16	1.31	1.25
1	A	702	GLU	CD-OE2	5.16	1.31	1.25
1	G	21	GLU	CD-OE2	5.16	1.31	1.25
1	S	282	GLU	CD-OE1	5.15	1.31	1.25
1	M	506	GLU	CD-OE2	5.15	1.31	1.25
1	D	506	GLU	CD-OE2	5.14	1.31	1.25
2	B	149	ASP	CB-CG	5.14	1.62	1.51
1	S	12	GLU	CD-OE2	5.13	1.31	1.25
2	E	149	ASP	CB-CG	5.12	1.62	1.51
1	J	282	GLU	CD-OE1	5.12	1.31	1.25
4	V	259	GLU	CB-CG	5.12	1.61	1.52
1	M	702	GLU	CD-OE2	5.11	1.31	1.25
1	G	702	GLU	CD-OE2	5.11	1.31	1.25
1	G	697	CYS	CB-SG	5.10	1.91	1.82
1	J	150	GLU	CD-OE1	5.10	1.31	1.25
1	M	12	GLU	CD-OE2	5.10	1.31	1.25
1	M	21	GLU	CD-OE2	5.10	1.31	1.25
1	A	527	GLU	CD-OE2	-5.09	1.20	1.25
4	1	259	GLU	CB-CG	5.08	1.61	1.52
1	A	697	CYS	CB-SG	5.08	1.90	1.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	539	GLU	CD-OE1	5.08	1.31	1.25
4	8	259	GLU	CB-CG	5.07	1.61	1.52
1	G	12	GLU	CD-OE2	5.07	1.31	1.25
2	H	149	ASP	CB-CG	5.06	1.62	1.51
1	M	150	GLU	CD-OE1	5.06	1.31	1.25
1	A	150	GLU	CD-OE1	5.06	1.31	1.25
4	4	259	GLU	CB-CG	5.06	1.61	1.52
4	9	259	GLU	CB-CG	5.05	1.61	1.52
1	A	282	GLU	CD-OE1	5.05	1.31	1.25
1	J	21	GLU	CD-OE2	5.05	1.31	1.25
1	S	150	GLU	CD-OE1	5.04	1.31	1.25
4	3	259	GLU	CB-CG	5.04	1.61	1.52
4	W	259	GLU	CB-CG	5.04	1.61	1.52
4	Z	259	GLU	CB-CG	5.04	1.61	1.52
4	7	259	GLU	CB-CG	5.04	1.61	1.52
1	J	12	GLU	CD-OE2	5.03	1.31	1.25
4	5	259	GLU	CB-CG	5.03	1.61	1.52
1	G	539	GLU	CD-OE1	5.02	1.31	1.25
1	D	21	GLU	CD-OE2	5.02	1.31	1.25
4	2	259	GLU	CB-CG	5.02	1.61	1.52
1	D	56	GLU	CD-OE1	5.02	1.31	1.25
1	D	697	CYS	CB-SG	5.02	1.90	1.82
1	S	697	CYS	CB-SG	5.02	1.90	1.82
1	G	282	GLU	CD-OE1	5.01	1.31	1.25
1	A	12	GLU	CD-OE2	5.01	1.31	1.25
4	Y	259	GLU	CB-CG	5.00	1.61	1.52
1	D	150	GLU	CD-OE1	5.00	1.31	1.25

All (1542) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	637	LYS	O-C-N	-58.53	23.70	123.20
1	D	637	LYS	O-C-N	-58.47	23.79	123.20
1	M	637	LYS	O-C-N	-58.47	23.80	123.20
1	S	637	LYS	O-C-N	-58.47	23.80	123.20
1	J	637	LYS	O-C-N	-58.47	23.81	123.20
1	A	637	LYS	O-C-N	-58.44	23.86	123.20
1	J	709	LYS	O-C-N	-39.10	56.73	123.20
1	J	649	VAL	CG1-CB-CG2	-34.02	56.48	110.90
1	D	649	VAL	CG1-CB-CG2	-34.00	56.49	110.90
1	M	649	VAL	CG1-CB-CG2	-34.00	56.50	110.90
1	A	649	VAL	CG1-CB-CG2	-33.99	56.51	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	649	VAL	CG1-CB-CG2	-33.99	56.52	110.90
1	S	649	VAL	CG1-CB-CG2	-33.99	56.52	110.90
1	J	648	THR	CA-CB-OG1	-31.72	42.39	109.00
1	S	648	THR	CA-CB-OG1	-31.71	42.41	109.00
1	M	648	THR	CA-CB-OG1	-31.71	42.41	109.00
1	G	648	THR	CA-CB-OG1	-31.70	42.44	109.00
1	A	648	THR	CA-CB-OG1	-31.69	42.45	109.00
1	D	648	THR	CA-CB-OG1	-31.69	42.45	109.00
2	E	150	TYR	CB-CG-CD2	-28.67	103.80	121.00
2	H	150	TYR	CB-CG-CD2	-28.64	103.81	121.00
2	T	150	TYR	CB-CG-CD2	-28.64	103.82	121.00
2	K	150	TYR	CB-CG-CD2	-28.59	103.84	121.00
2	B	150	TYR	CB-CG-CD2	-28.55	103.87	121.00
2	N	150	TYR	CB-CG-CD2	-28.53	103.88	121.00
1	G	649	VAL	CA-CB-CG1	-28.52	68.12	110.90
1	D	649	VAL	CA-CB-CG1	-28.49	68.16	110.90
1	J	649	VAL	CA-CB-CG1	-28.48	68.17	110.90
1	M	649	VAL	CA-CB-CG1	-28.46	68.20	110.90
1	S	649	VAL	CA-CB-CG1	-28.45	68.22	110.90
1	A	649	VAL	CA-CB-CG1	-28.44	68.24	110.90
1	G	649	VAL	CA-CB-CG2	-28.18	68.63	110.90
1	D	649	VAL	CA-CB-CG2	-28.16	68.67	110.90
1	J	649	VAL	CA-CB-CG2	-28.16	68.67	110.90
1	M	649	VAL	CA-CB-CG2	-28.15	68.67	110.90
1	A	649	VAL	CA-CB-CG2	-28.15	68.67	110.90
1	S	649	VAL	CA-CB-CG2	-28.11	68.73	110.90
1	S	648	THR	CA-CB-CG2	-25.62	76.53	112.40
1	M	648	THR	CA-CB-CG2	-25.60	76.56	112.40
1	J	648	THR	CA-CB-CG2	-25.57	76.59	112.40
1	D	648	THR	CA-CB-CG2	-25.54	76.64	112.40
1	A	648	THR	CA-CB-CG2	-25.44	76.79	112.40
1	G	648	THR	CA-CB-CG2	-25.36	76.90	112.40
1	S	785	GLU	O-C-N	-23.89	84.48	122.70
2	H	150	TYR	CG-CD2-CE2	-20.88	104.60	121.30
2	T	150	TYR	CG-CD2-CE2	-20.64	104.79	121.30
2	E	150	TYR	CG-CD2-CE2	-20.61	104.81	121.30
2	N	150	TYR	CG-CD2-CE2	-20.59	104.82	121.30
2	K	150	TYR	CG-CD2-CE2	-20.57	104.85	121.30
2	B	150	TYR	CG-CD2-CE2	-20.54	104.87	121.30
1	M	709	LYS	O-C-N	-19.71	89.70	123.20
2	K	150	TYR	CD1-CG-CD2	19.50	139.35	117.90
2	T	150	TYR	CD1-CG-CD2	19.49	139.34	117.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	150	TYR	CD1-CG-CD2	19.49	139.34	117.90
2	N	150	TYR	CD1-CG-CD2	19.47	139.32	117.90
2	E	150	TYR	CD1-CG-CD2	19.45	139.30	117.90
2	B	150	TYR	CD1-CG-CD2	19.41	139.25	117.90
2	E	150	TYR	CG-CD1-CE1	-18.55	106.46	121.30
2	H	150	TYR	CG-CD1-CE1	-18.50	106.50	121.30
2	T	150	TYR	CG-CD1-CE1	-18.48	106.52	121.30
2	K	150	TYR	CG-CD1-CE1	-18.45	106.54	121.30
2	N	150	TYR	CG-CD1-CE1	-18.39	106.59	121.30
2	B	150	TYR	CG-CD1-CE1	-18.31	106.66	121.30
1	M	800	ARG	NE-CZ-NH2	-16.63	111.98	120.30
1	D	800	ARG	NE-CZ-NH2	-16.56	112.02	120.30
1	J	800	ARG	NE-CZ-NH2	-16.53	112.03	120.30
1	S	800	ARG	NE-CZ-NH2	-16.37	112.12	120.30
1	G	800	ARG	NE-CZ-NH2	-16.28	112.16	120.30
1	A	800	ARG	NE-CZ-NH2	-16.10	112.25	120.30
1	G	623	PHE	CB-CG-CD2	-13.78	111.16	120.80
1	S	623	PHE	CB-CG-CD2	-13.67	111.23	120.80
1	A	623	PHE	CB-CG-CD2	-13.66	111.24	120.80
1	D	623	PHE	CB-CG-CD2	-13.64	111.25	120.80
1	M	623	PHE	CB-CG-CD2	-13.63	111.26	120.80
1	J	623	PHE	CB-CG-CD2	-13.63	111.26	120.80
1	S	769	ALA	CA-C-N	-13.05	90.10	116.20
1	S	623	PHE	CB-CG-CD1	12.39	129.47	120.80
1	A	623	PHE	CB-CG-CD1	12.37	129.46	120.80
1	S	785	GLU	CA-C-N	12.35	144.36	117.20
1	M	623	PHE	CB-CG-CD1	12.32	129.43	120.80
1	J	623	PHE	CB-CG-CD1	12.31	129.42	120.80
1	G	623	PHE	CB-CG-CD1	12.29	129.40	120.80
1	J	623	PHE	CA-CB-CG	-12.27	84.46	113.90
1	M	623	PHE	CA-CB-CG	-12.27	84.46	113.90
1	S	623	PHE	CA-CB-CG	-12.26	84.48	113.90
1	A	623	PHE	CA-CB-CG	-12.25	84.50	113.90
1	D	623	PHE	CA-CB-CG	-12.23	84.53	113.90
1	G	623	PHE	CA-CB-CG	-12.20	84.61	113.90
1	D	623	PHE	CB-CG-CD1	12.08	129.26	120.80
1	J	98	HIS	CB-CA-C	-11.60	87.21	110.40
1	M	98	HIS	CB-CA-C	-11.60	87.21	110.40
1	S	98	HIS	CB-CA-C	-11.57	87.27	110.40
1	G	98	HIS	CB-CA-C	-11.55	87.29	110.40
1	D	98	HIS	CB-CA-C	-11.55	87.31	110.40
1	A	98	HIS	CB-CA-C	-11.54	87.32	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	568	PRO	O-C-N	10.70	139.81	122.70
1	G	568	PRO	O-C-N	10.69	139.80	122.70
1	A	568	PRO	O-C-N	10.68	139.78	122.70
1	J	568	PRO	O-C-N	10.64	139.73	122.70
1	M	568	PRO	O-C-N	10.62	139.69	122.70
1	S	568	PRO	O-C-N	10.57	139.61	122.70
2	E	141	PRO	CA-N-CD	10.28	126.09	111.70
2	H	141	PRO	CA-N-CD	10.26	126.06	111.70
2	T	141	PRO	CA-N-CD	10.23	126.03	111.70
2	K	141	PRO	CA-N-CD	10.22	126.02	111.70
2	N	141	PRO	CA-N-CD	10.18	125.96	111.70
2	B	141	PRO	CA-N-CD	10.12	125.87	111.70
1	G	327	ASP	CB-CG-OD1	-10.07	109.23	118.30
1	M	625	THR	CA-CB-CG2	-10.07	98.30	112.40
1	G	625	THR	CA-CB-CG2	-10.06	98.31	112.40
1	S	625	THR	CA-CB-CG2	-10.06	98.32	112.40
1	J	625	THR	CA-CB-CG2	-10.06	98.32	112.40
1	S	327	ASP	CB-CG-OD1	-10.05	109.25	118.30
1	A	625	THR	CA-CB-CG2	-10.03	98.36	112.40
1	J	327	ASP	CB-CG-OD1	-10.01	109.30	118.30
1	A	327	ASP	CB-CG-OD1	-9.99	109.31	118.30
1	D	625	THR	CA-CB-CG2	-9.99	98.41	112.40
1	M	327	ASP	CB-CG-OD1	-9.98	109.32	118.30
1	D	327	ASP	CB-CG-OD1	-9.94	109.36	118.30
1	A	241	ASP	CB-CG-OD1	-9.88	109.41	118.30
1	G	241	ASP	CB-CG-OD1	-9.85	109.44	118.30
1	S	241	ASP	CB-CG-OD1	-9.80	109.48	118.30
1	M	241	ASP	CB-CG-OD1	-9.80	109.48	118.30
3	C	63	ILE	O-C-N	9.76	138.32	122.70
1	D	241	ASP	CB-CG-OD1	-9.76	109.52	118.30
3	O	63	ILE	O-C-N	9.75	138.29	122.70
3	I	63	ILE	O-C-N	9.72	138.25	122.70
3	L	63	ILE	O-C-N	9.72	138.25	122.70
3	U	63	ILE	O-C-N	9.72	138.25	122.70
1	D	728	ASN	O-C-N	9.71	138.24	122.70
3	F	63	ILE	O-C-N	9.71	138.24	122.70
1	J	241	ASP	CB-CG-OD1	-9.71	109.56	118.30
1	J	728	ASN	O-C-N	9.70	138.21	122.70
1	M	728	ASN	O-C-N	9.68	138.19	122.70
1	A	728	ASN	O-C-N	9.63	138.11	122.70
1	G	728	ASN	O-C-N	9.60	138.06	122.70
1	S	728	ASN	O-C-N	9.59	138.05	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	264	ASP	CB-CG-OD2	-9.50	109.75	118.30
1	J	264	ASP	CB-CG-OD2	-9.47	109.78	118.30
1	D	264	ASP	CB-CG-OD2	-9.44	109.80	118.30
1	M	264	ASP	CB-CG-OD2	-9.40	109.84	118.30
2	E	150	TYR	N-CA-CB	-9.40	93.68	110.60
1	A	264	ASP	CB-CG-OD2	-9.38	109.86	118.30
2	N	150	TYR	N-CA-CB	-9.38	93.72	110.60
1	S	264	ASP	CB-CG-OD2	-9.37	109.87	118.30
2	T	150	TYR	N-CA-CB	-9.37	93.74	110.60
2	K	150	TYR	N-CA-CB	-9.35	93.78	110.60
2	H	150	TYR	N-CA-CB	-9.33	93.80	110.60
2	B	150	TYR	N-CA-CB	-9.33	93.81	110.60
4	7	356	TRP	CD1-CG-CD2	9.19	113.65	106.30
4	W	356	TRP	CD1-CG-CD2	9.16	113.63	106.30
4	9	356	TRP	CD1-CG-CD2	9.15	113.62	106.30
4	2	356	TRP	CD1-CG-CD2	9.15	113.62	106.30
4	5	356	TRP	CD1-CG-CD2	9.14	113.61	106.30
4	8	356	TRP	CD1-CG-CD2	9.14	113.61	106.30
4	4	356	TRP	CD1-CG-CD2	9.13	113.61	106.30
4	3	356	TRP	CD1-CG-CD2	9.11	113.59	106.30
4	1	356	TRP	CD1-CG-CD2	9.10	113.58	106.30
4	X	356	TRP	CD1-CG-CD2	9.08	113.57	106.30
4	6	356	TRP	CD1-CG-CD2	9.05	113.54	106.30
1	S	378	ASP	CB-CG-OD2	9.04	126.43	118.30
4	Y	356	TRP	CD1-CG-CD2	9.04	113.53	106.30
4	V	356	TRP	CD1-CG-CD2	9.03	113.53	106.30
4	Z	356	TRP	CD1-CG-CD2	9.00	113.50	106.30
1	J	378	ASP	CB-CG-OD2	8.98	126.38	118.30
1	M	378	ASP	CB-CG-OD2	8.94	126.34	118.30
1	J	352	TYR	CB-CG-CD1	8.93	126.36	121.00
1	J	709	LYS	C-N-CA	-8.91	103.58	122.30
1	D	378	ASP	CB-CG-OD2	8.90	126.31	118.30
1	S	352	TYR	CB-CG-CD1	8.86	126.32	121.00
1	M	352	TYR	CB-CG-CD1	8.85	126.31	121.00
1	G	352	TYR	CB-CG-CD1	8.83	126.30	121.00
1	A	378	ASP	CB-CG-OD2	8.83	126.24	118.30
1	G	378	ASP	CB-CG-OD2	8.81	126.23	118.30
1	D	352	TYR	CB-CG-CD1	8.80	126.28	121.00
2	E	138	ALA	O-C-N	-8.76	108.69	122.70
1	A	352	TYR	CB-CG-CD1	8.75	126.25	121.00
2	T	138	ALA	O-C-N	-8.73	108.74	122.70
4	1	177	ARG	NE-CZ-NH2	-8.70	115.95	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	138	ALA	O-C-N	-8.70	108.79	122.70
2	K	138	ALA	O-C-N	-8.69	108.79	122.70
2	N	138	ALA	O-C-N	-8.68	108.81	122.70
2	B	138	ALA	O-C-N	-8.68	108.82	122.70
4	8	177	ARG	NE-CZ-NH2	-8.65	115.97	120.30
4	4	177	ARG	NE-CZ-NH2	-8.64	115.98	120.30
4	W	177	ARG	NE-CZ-NH2	-8.62	115.99	120.30
4	6	177	ARG	NE-CZ-NH2	-8.62	115.99	120.30
4	2	86	TRP	CD1-CG-CD2	8.58	113.17	106.30
4	Z	177	ARG	NE-CZ-NH2	-8.56	116.02	120.30
4	X	177	ARG	NE-CZ-NH2	-8.55	116.02	120.30
4	2	177	ARG	NE-CZ-NH2	-8.55	116.03	120.30
4	X	86	TRP	CD1-CG-CD2	8.54	113.13	106.30
4	9	177	ARG	NE-CZ-NH2	-8.54	116.03	120.30
4	V	177	ARG	NE-CZ-NH2	-8.53	116.04	120.30
1	D	601	ASP	CB-CG-OD1	-8.52	110.63	118.30
4	5	177	ARG	NE-CZ-NH2	-8.52	116.04	120.30
4	V	86	TRP	CD1-CG-CD2	8.52	113.11	106.30
4	W	86	TRP	CD1-CG-CD2	8.52	113.11	106.30
1	M	601	ASP	CB-CG-OD1	-8.51	110.64	118.30
4	Y	86	TRP	CD1-CG-CD2	8.51	113.11	106.30
4	9	86	TRP	CD1-CG-CD2	8.51	113.11	106.30
1	J	601	ASP	CB-CG-OD1	-8.50	110.65	118.30
4	1	86	TRP	CD1-CG-CD2	8.49	113.09	106.30
4	4	86	TRP	CD1-CG-CD2	8.49	113.09	106.30
4	3	86	TRP	CD1-CG-CD2	8.48	113.09	106.30
4	3	177	ARG	NE-CZ-NH2	-8.47	116.06	120.30
1	G	601	ASP	CB-CG-OD1	-8.47	110.67	118.30
4	6	86	TRP	CD1-CG-CD2	8.46	113.07	106.30
4	8	86	TRP	CD1-CG-CD2	8.45	113.06	106.30
4	Y	177	ARG	NE-CZ-NH2	-8.45	116.07	120.30
1	A	601	ASP	CB-CG-OD1	-8.43	110.71	118.30
1	S	601	ASP	CB-CG-OD1	-8.43	110.71	118.30
1	S	33	ASP	CB-CG-OD1	-8.43	110.72	118.30
4	7	177	ARG	NE-CZ-NH2	-8.40	116.10	120.30
4	5	86	TRP	CD1-CG-CD2	8.39	113.01	106.30
1	M	352	TYR	CB-CG-CD2	-8.38	115.97	121.00
4	Z	86	TRP	CD1-CG-CD2	8.38	113.00	106.30
1	M	33	ASP	CB-CG-OD1	-8.38	110.76	118.30
4	7	86	TRP	CD1-CG-CD2	8.37	113.00	106.30
1	J	33	ASP	CB-CG-OD1	-8.36	110.78	118.30
1	S	352	TYR	CB-CG-CD2	-8.31	116.01	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	33	ASP	CB-CG-OD1	-8.29	110.84	118.30
1	A	352	TYR	CB-CG-CD2	-8.26	116.04	121.00
1	J	352	TYR	CB-CG-CD2	-8.26	116.05	121.00
1	A	33	ASP	CB-CG-OD1	-8.26	110.87	118.30
1	G	33	ASP	CB-CG-OD1	-8.19	110.93	118.30
1	G	352	TYR	CB-CG-CD2	-8.19	116.09	121.00
1	D	352	TYR	CB-CG-CD2	-8.17	116.09	121.00
4	W	356	TRP	CE2-CD2-CG	-8.04	100.86	107.30
4	7	356	TRP	CE2-CD2-CG	-8.01	100.89	107.30
4	2	356	TRP	CE2-CD2-CG	-7.99	100.91	107.30
1	A	637	LYS	CA-C-N	7.99	132.17	116.20
4	5	356	TRP	CE2-CD2-CG	-7.97	100.93	107.30
4	1	356	TRP	CE2-CD2-CG	-7.96	100.94	107.30
1	A	339	ASP	CB-CG-OD1	-7.94	111.15	118.30
4	8	356	TRP	CE2-CD2-CG	-7.94	100.95	107.30
1	D	637	LYS	CA-C-N	7.93	132.07	116.20
1	G	339	ASP	CB-CG-OD1	-7.93	111.16	118.30
4	3	356	TRP	CE2-CD2-CG	-7.93	100.96	107.30
1	D	339	ASP	CB-CG-OD1	-7.93	111.17	118.30
4	4	356	TRP	CE2-CD2-CG	-7.93	100.96	107.30
4	V	356	TRP	CE2-CD2-CG	-7.93	100.96	107.30
4	6	356	TRP	CE2-CD2-CG	-7.92	100.96	107.30
1	S	637	LYS	CA-C-N	7.92	132.04	116.20
1	J	637	LYS	CA-C-N	7.91	132.01	116.20
4	9	356	TRP	CE2-CD2-CG	-7.91	100.97	107.30
1	M	637	LYS	CA-C-N	7.89	131.99	116.20
4	Z	356	TRP	CE2-CD2-CG	-7.89	100.99	107.30
1	M	339	ASP	CB-CG-OD1	-7.88	111.20	118.30
1	G	637	LYS	CA-C-N	7.88	131.96	116.20
4	Y	356	TRP	CE2-CD2-CG	-7.87	101.00	107.30
1	J	339	ASP	CB-CG-OD1	-7.87	111.22	118.30
1	S	339	ASP	CB-CG-OD1	-7.87	111.22	118.30
4	X	356	TRP	CE2-CD2-CG	-7.86	101.01	107.30
2	B	150	TYR	CD1-CE1-CZ	-7.85	112.73	119.80
2	K	150	TYR	CD1-CE1-CZ	-7.80	112.78	119.80
1	D	202	SER	CB-CA-C	-7.79	95.30	110.10
1	A	202	SER	CB-CA-C	-7.78	95.32	110.10
2	N	150	TYR	CD1-CE1-CZ	-7.77	112.81	119.80
1	M	202	SER	CB-CA-C	-7.76	95.35	110.10
1	S	653	PHE	CB-CG-CD1	-7.76	115.36	120.80
2	E	150	TYR	CD1-CE1-CZ	-7.75	112.82	119.80
1	J	202	SER	CB-CA-C	-7.75	95.36	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	202	SER	CB-CA-C	-7.75	95.37	110.10
4	X	312	ARG	NE-CZ-NH2	7.74	124.17	120.30
4	8	312	ARG	NE-CZ-NH2	7.72	124.16	120.30
1	S	202	SER	CB-CA-C	-7.71	95.45	110.10
2	H	150	TYR	CD1-CE1-CZ	-7.71	112.86	119.80
4	1	312	ARG	NE-CZ-NH2	7.70	124.15	120.30
4	W	312	ARG	NE-CZ-NH2	7.68	124.14	120.30
4	7	312	ARG	NE-CZ-NH2	7.66	124.13	120.30
1	M	653	PHE	CB-CG-CD1	-7.66	115.44	120.80
2	T	150	TYR	CD1-CE1-CZ	-7.65	112.91	119.80
4	V	312	ARG	NE-CZ-NH2	7.65	124.12	120.30
4	V	86	TRP	CE2-CD2-CG	-7.63	101.19	107.30
1	J	653	PHE	CB-CG-CD1	-7.63	115.46	120.80
4	3	312	ARG	NE-CZ-NH2	7.63	124.11	120.30
4	9	312	ARG	NE-CZ-NH2	7.62	124.11	120.30
1	G	654	ARG	NE-CZ-NH1	7.62	124.11	120.30
4	5	312	ARG	NE-CZ-NH2	7.62	124.11	120.30
4	2	312	ARG	NE-CZ-NH2	7.60	124.10	120.30
4	6	86	TRP	CE2-CD2-CG	-7.60	101.22	107.30
1	G	653	PHE	CB-CG-CD1	-7.59	115.48	120.80
4	6	312	ARG	NE-CZ-NH2	7.59	124.09	120.30
4	5	86	TRP	CE2-CD2-CG	-7.58	101.23	107.30
1	A	654	ARG	NE-CZ-NH1	7.58	124.09	120.30
4	2	86	TRP	CE2-CD2-CG	-7.58	101.24	107.30
4	Z	312	ARG	NE-CZ-NH2	7.56	124.08	120.30
1	D	653	PHE	CB-CG-CD1	-7.56	115.51	120.80
4	3	86	TRP	CE2-CD2-CG	-7.56	101.25	107.30
4	1	86	TRP	CE2-CD2-CG	-7.56	101.25	107.30
4	4	86	TRP	CE2-CD2-CG	-7.56	101.25	107.30
4	W	86	TRP	CE2-CD2-CG	-7.55	101.26	107.30
4	X	86	TRP	CE2-CD2-CG	-7.54	101.27	107.30
4	8	86	TRP	CE2-CD2-CG	-7.54	101.27	107.30
4	Y	86	TRP	CE2-CD2-CG	-7.53	101.28	107.30
4	Y	312	ARG	NE-CZ-NH2	7.52	124.06	120.30
4	9	86	TRP	CE2-CD2-CG	-7.51	101.29	107.30
3	U	63	ILE	CG1-CB-CG2	-7.50	94.90	111.40
4	7	86	TRP	CE2-CD2-CG	-7.49	101.31	107.30
3	C	63	ILE	CG1-CB-CG2	-7.49	94.92	111.40
3	I	63	ILE	CG1-CB-CG2	-7.49	94.92	111.40
4	4	312	ARG	NE-CZ-NH2	7.48	124.04	120.30
3	L	63	ILE	CG1-CB-CG2	-7.48	94.95	111.40
3	O	63	ILE	CG1-CB-CG2	-7.47	94.96	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	F	63	ILE	CG1-CB-CG2	-7.46	94.98	111.40
2	B	127	ARG	NE-CZ-NH2	7.45	124.03	120.30
1	A	653	PHE	CB-CG-CD1	-7.45	115.58	120.80
4	Z	86	TRP	CE2-CD2-CG	-7.45	101.34	107.30
1	G	346	ASP	CB-CG-OD2	-7.44	111.60	118.30
1	M	518	ASP	CB-CG-OD1	-7.44	111.61	118.30
4	Z	254	ARG	NE-CZ-NH2	-7.43	116.58	120.30
1	J	518	ASP	CB-CG-OD1	-7.42	111.62	118.30
1	J	654	ARG	NE-CZ-NH1	7.41	124.01	120.30
3	I	63	ILE	CA-C-N	-7.41	100.91	117.20
4	7	233	SER	CA-C-N	-7.40	100.93	117.20
4	X	233	SER	CA-C-N	-7.38	100.97	117.20
4	X	254	ARG	NE-CZ-NH2	-7.38	116.61	120.30
4	1	180	LEU	CA-CB-CG	7.37	132.25	115.30
1	A	346	ASP	CB-CG-OD2	-7.37	111.67	118.30
3	L	63	ILE	CA-C-N	-7.37	100.99	117.20
1	M	654	ARG	NE-CZ-NH1	7.37	123.98	120.30
4	Z	233	SER	CA-C-N	-7.37	101.00	117.20
4	7	180	LEU	CA-CB-CG	7.36	132.23	115.30
1	S	654	ARG	NE-CZ-NH1	7.36	123.98	120.30
4	9	233	SER	CA-C-N	-7.36	101.01	117.20
1	S	518	ASP	CB-CG-OD1	-7.36	111.68	118.30
3	U	63	ILE	CA-C-N	-7.36	101.02	117.20
4	1	233	SER	CA-C-N	-7.36	101.02	117.20
4	W	180	LEU	CA-CB-CG	7.36	132.22	115.30
4	3	180	LEU	CA-CB-CG	7.35	132.21	115.30
3	C	63	ILE	CA-C-N	-7.35	101.03	117.20
4	6	233	SER	CA-C-N	-7.35	101.02	117.20
4	2	233	SER	CA-C-N	-7.35	101.03	117.20
4	W	233	SER	CA-C-N	-7.35	101.03	117.20
1	D	346	ASP	CB-CG-OD2	-7.35	111.69	118.30
1	D	518	ASP	CB-CG-OD1	-7.35	111.69	118.30
4	V	233	SER	CA-C-N	-7.35	101.03	117.20
4	8	233	SER	CA-C-N	-7.35	101.04	117.20
4	X	180	LEU	CA-CB-CG	7.35	132.20	115.30
4	Z	180	LEU	CA-CB-CG	7.34	132.19	115.30
3	O	63	ILE	CA-C-N	-7.34	101.05	117.20
4	2	180	LEU	CA-CB-CG	7.34	132.18	115.30
4	Y	233	SER	CA-C-N	-7.34	101.06	117.20
1	G	709	LYS	C-N-CA	7.33	137.70	122.30
4	4	233	SER	CA-C-N	-7.33	101.07	117.20
3	F	63	ILE	CA-C-N	-7.33	101.07	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	654	ARG	NE-CZ-NH1	7.33	123.96	120.30
4	6	180	LEU	CA-CB-CG	7.33	132.15	115.30
4	8	180	LEU	CA-CB-CG	7.33	132.15	115.30
4	Y	180	LEU	CA-CB-CG	7.32	132.15	115.30
1	G	709	LYS	CA-C-N	-7.32	101.56	116.20
4	3	233	SER	CA-C-N	-7.32	101.09	117.20
4	5	180	LEU	CA-CB-CG	7.32	132.13	115.30
4	5	233	SER	CA-C-N	-7.32	101.10	117.20
4	4	180	LEU	CA-CB-CG	7.32	132.13	115.30
4	9	180	LEU	CA-CB-CG	7.31	132.11	115.30
1	A	518	ASP	CB-CG-OD1	-7.31	111.72	118.30
4	V	180	LEU	CA-CB-CG	7.31	132.11	115.30
1	S	104	TYR	CB-CG-CD2	7.30	125.38	121.00
1	G	518	ASP	CB-CG-OD1	-7.28	111.75	118.30
2	E	127	ARG	NE-CZ-NH2	7.28	123.94	120.30
4	8	79	TRP	CD1-CG-CD2	7.27	112.12	106.30
4	5	254	ARG	NE-CZ-NH2	-7.26	116.67	120.30
1	M	346	ASP	CB-CG-OD2	-7.26	111.77	118.30
4	1	254	ARG	NE-CZ-NH2	-7.26	116.67	120.30
1	J	346	ASP	CB-CG-OD2	-7.25	111.77	118.30
1	S	346	ASP	CB-CG-OD2	-7.25	111.77	118.30
4	2	79	TRP	CD1-CG-CD2	7.25	112.10	106.30
4	X	79	TRP	CD1-CG-CD2	7.25	112.10	106.30
4	7	340	TRP	CE2-CD2-CG	-7.25	101.50	107.30
4	7	254	ARG	NE-CZ-NH2	-7.22	116.69	120.30
4	V	340	TRP	CE2-CD2-CG	-7.21	101.53	107.30
1	A	148	ARG	NE-CZ-NH2	-7.21	116.69	120.30
1	G	104	TYR	CB-CG-CD2	7.21	125.32	121.00
1	M	104	TYR	CB-CG-CD2	7.21	125.32	121.00
4	Z	79	TRP	CD1-CG-CD2	7.21	112.06	106.30
4	X	206	ARG	NE-CZ-NH1	7.20	123.90	120.30
4	6	254	ARG	NE-CZ-NH2	-7.20	116.70	120.30
4	Z	340	TRP	CE2-CD2-CG	-7.19	101.55	107.30
1	J	104	TYR	CB-CG-CD2	7.19	125.31	121.00
1	A	104	TYR	CB-CG-CD2	7.19	125.31	121.00
4	1	79	TRP	CD1-CG-CD2	7.19	112.05	106.30
4	6	79	TRP	CD1-CG-CD2	7.18	112.04	106.30
4	6	206	ARG	NE-CZ-NH1	7.18	123.89	120.30
4	Y	254	ARG	NE-CZ-NH2	-7.18	116.71	120.30
4	1	340	TRP	CE2-CD2-CG	-7.17	101.56	107.30
4	Y	79	TRP	CD1-CG-CD2	7.17	112.04	106.30
4	Z	206	ARG	NE-CZ-NH1	7.17	123.89	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	340	TRP	CE2-CD2-CG	-7.17	101.56	107.30
4	9	79	TRP	CD1-CG-CD2	7.17	112.04	106.30
4	W	79	TRP	CD1-CG-CD2	7.17	112.04	106.30
4	4	79	TRP	CD1-CG-CD2	7.17	112.03	106.30
4	8	340	TRP	CE2-CD2-CG	-7.17	101.57	107.30
4	8	254	ARG	NE-CZ-NH2	-7.16	116.72	120.30
2	K	150	TYR	CB-CG-CD1	-7.16	116.71	121.00
4	3	254	ARG	NE-CZ-NH2	-7.16	116.72	120.30
4	1	206	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	A	568	PRO	CA-C-N	-7.14	101.49	117.20
4	4	206	ARG	NE-CZ-NH1	7.14	123.87	120.30
2	N	150	TYR	CB-CG-CD1	-7.13	116.72	121.00
4	7	79	TRP	CD1-CG-CD2	7.13	112.01	106.30
4	3	206	ARG	NE-CZ-NH1	7.13	123.86	120.30
4	9	340	TRP	CE2-CD2-CG	-7.12	101.60	107.30
2	H	127	ARG	NE-CZ-NH2	7.12	123.86	120.30
1	M	568	PRO	CA-C-N	-7.12	101.53	117.20
1	G	568	PRO	CA-C-N	-7.12	101.53	117.20
4	2	254	ARG	NE-CZ-NH2	-7.12	116.74	120.30
1	J	148	ARG	NE-CZ-NH2	-7.12	116.74	120.30
4	4	340	TRP	CE2-CD2-CG	-7.11	101.61	107.30
4	3	79	TRP	CD1-CG-CD2	7.10	111.98	106.30
2	H	150	TYR	CB-CG-CD1	-7.10	116.74	121.00
4	W	340	TRP	CE2-CD2-CG	-7.10	101.62	107.30
4	4	254	ARG	NE-CZ-NH2	-7.10	116.75	120.30
2	N	127	ARG	NE-CZ-NH2	7.09	123.85	120.30
4	6	340	TRP	CE2-CD2-CG	-7.09	101.63	107.30
1	D	148	ARG	NE-CZ-NH2	-7.09	116.76	120.30
1	S	568	PRO	CA-C-N	-7.09	101.60	117.20
2	T	127	ARG	NE-CZ-NH2	7.09	123.84	120.30
2	T	150	TYR	CB-CG-CD1	-7.09	116.75	121.00
4	W	254	ARG	NE-CZ-NH2	-7.09	116.76	120.30
4	X	340	TRP	CE2-CD2-CG	-7.08	101.63	107.30
1	J	568	PRO	CA-C-N	-7.08	101.62	117.20
4	5	79	TRP	CD1-CG-CD2	7.08	111.97	106.30
4	9	254	ARG	NE-CZ-NH2	-7.08	116.76	120.30
4	V	79	TRP	CD1-CG-CD2	7.08	111.97	106.30
4	V	206	ARG	NE-CZ-NH1	7.08	123.84	120.30
4	2	340	TRP	CE2-CD2-CG	-7.08	101.64	107.30
2	K	127	ARG	NE-CZ-NH2	7.08	123.84	120.30
1	D	568	PRO	CA-C-N	-7.08	101.63	117.20
4	2	206	ARG	NE-CZ-NH1	7.07	123.84	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	47	MET	CA-CB-CG	-7.07	101.28	113.30
4	9	206	ARG	NE-CZ-NH1	7.06	123.83	120.30
4	Y	340	TRP	CE2-CD2-CG	-7.06	101.65	107.30
4	1	47	MET	CA-CB-CG	-7.06	101.30	113.30
1	M	709	LYS	C-N-CA	-7.06	107.48	122.30
4	5	340	TRP	CE2-CD2-CG	-7.06	101.65	107.30
4	8	47	MET	CA-CB-CG	-7.06	101.30	113.30
4	V	254	ARG	NE-CZ-NH2	-7.06	116.77	120.30
4	W	206	ARG	NE-CZ-NH1	7.06	123.83	120.30
4	7	47	MET	CA-CB-CG	-7.05	101.31	113.30
1	J	264	ASP	N-CA-CB	-7.04	97.92	110.60
4	7	206	ARG	NE-CZ-NH1	7.04	123.82	120.30
4	1	340	TRP	CD1-CG-CD2	7.04	111.93	106.30
2	B	150	TYR	CB-CG-CD1	-7.03	116.78	121.00
4	4	47	MET	CA-CB-CG	-7.03	101.35	113.30
1	M	264	ASP	N-CA-CB	-7.03	97.95	110.60
4	1	79	TRP	CE2-CD2-CG	-7.03	101.68	107.30
4	5	47	MET	CA-CB-CG	-7.03	101.36	113.30
4	Y	47	MET	CA-CB-CG	-7.03	101.36	113.30
4	2	79	TRP	CE2-CD2-CG	-7.02	101.68	107.30
4	9	47	MET	CA-CB-CG	-7.02	101.36	113.30
4	8	79	TRP	CE2-CD2-CG	-7.02	101.69	107.30
4	W	47	MET	CA-CB-CG	-7.02	101.37	113.30
4	X	47	MET	CA-CB-CG	-7.02	101.37	113.30
4	X	79	TRP	CE2-CD2-CG	-7.02	101.69	107.30
4	3	47	MET	CA-CB-CG	-7.01	101.38	113.30
4	6	47	MET	CA-CB-CG	-7.01	101.38	113.30
4	Y	206	ARG	NE-CZ-NH1	7.01	123.81	120.30
1	S	264	ASP	N-CA-CB	-7.01	97.99	110.60
4	Y	79	TRP	CE2-CD2-CG	-7.00	101.70	107.30
4	Z	79	TRP	CE2-CD2-CG	-7.00	101.70	107.30
1	A	218	LEU	CB-CG-CD1	7.00	122.90	111.00
2	E	150	TYR	CB-CG-CD1	-7.00	116.80	121.00
1	D	218	LEU	CB-CG-CD1	6.99	122.89	111.00
1	M	217	THR	N-CA-CB	6.99	123.59	110.30
1	D	264	ASP	N-CA-CB	-6.99	98.02	110.60
1	S	218	LEU	CB-CG-CD1	6.99	122.88	111.00
1	D	217	THR	N-CA-CB	6.99	123.57	110.30
1	M	218	LEU	CB-CG-CD1	6.99	122.88	111.00
4	2	47	MET	CA-CB-CG	-6.99	101.42	113.30
4	7	340	TRP	CD1-CG-CD2	6.99	111.89	106.30
1	G	217	THR	N-CA-CB	6.98	123.56	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	340	TRP	CD1-CG-CD2	6.98	111.89	106.30
1	A	264	ASP	N-CA-CB	-6.98	98.04	110.60
1	A	217	THR	N-CA-CB	6.97	123.55	110.30
4	8	340	TRP	CD1-CG-CD2	6.97	111.88	106.30
4	9	79	TRP	CE2-CD2-CG	-6.97	101.72	107.30
4	Z	47	MET	CA-CB-CG	-6.97	101.45	113.30
1	G	218	LEU	CB-CG-CD1	6.97	122.84	111.00
4	Y	340	TRP	CD1-CG-CD2	6.96	111.87	106.30
1	G	148	ARG	NE-CZ-NH2	-6.96	116.82	120.30
1	J	217	THR	N-CA-CB	6.96	123.53	110.30
1	J	218	LEU	CB-CG-CD1	6.96	122.83	111.00
4	Z	340	TRP	CD1-CG-CD2	6.96	111.87	106.30
1	G	264	ASP	N-CA-CB	-6.95	98.08	110.60
4	8	206	ARG	NE-CZ-NH1	6.95	123.77	120.30
1	S	217	THR	N-CA-CB	6.95	123.50	110.30
1	M	148	ARG	NE-CZ-NH2	-6.95	116.83	120.30
4	6	79	TRP	CE2-CD2-CG	-6.94	101.75	107.30
1	D	104	TYR	CB-CG-CD2	6.94	125.16	121.00
4	3	79	TRP	CE2-CD2-CG	-6.94	101.75	107.30
4	5	206	ARG	NE-CZ-NH1	6.94	123.77	120.30
4	9	340	TRP	CD1-CG-CD2	6.93	111.85	106.30
1	S	148	ARG	NE-CZ-NH2	-6.93	116.83	120.30
4	7	79	TRP	CE2-CD2-CG	-6.93	101.76	107.30
4	W	79	TRP	CE2-CD2-CG	-6.93	101.76	107.30
4	V	79	TRP	CE2-CD2-CG	-6.92	101.76	107.30
4	4	340	TRP	CD1-CG-CD2	6.92	111.84	106.30
4	4	79	TRP	CE2-CD2-CG	-6.92	101.77	107.30
4	X	340	TRP	CD1-CG-CD2	6.91	111.83	106.30
4	W	340	TRP	CD1-CG-CD2	6.90	111.82	106.30
4	2	340	TRP	CD1-CG-CD2	6.89	111.81	106.30
1	M	728	ASN	CA-C-N	-6.88	102.05	117.20
4	5	340	TRP	CD1-CG-CD2	6.88	111.81	106.30
4	3	340	TRP	CD1-CG-CD2	6.88	111.80	106.30
4	5	79	TRP	CE2-CD2-CG	-6.88	101.80	107.30
1	G	728	ASN	CA-C-N	-6.88	102.07	117.20
1	S	75	ASP	N-CA-CB	6.87	122.97	110.60
1	G	450	ASP	CB-CG-OD2	6.87	124.48	118.30
1	A	75	ASP	N-CA-CB	6.87	122.96	110.60
1	D	728	ASN	CA-C-N	-6.87	102.10	117.20
1	J	728	ASN	CA-C-N	-6.87	102.09	117.20
1	G	75	ASP	N-CA-CB	6.86	122.95	110.60
1	J	75	ASP	N-CA-CB	6.86	122.95	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6	340	TRP	CD1-CG-CD2	6.86	111.79	106.30
1	S	728	ASN	CA-C-N	-6.85	102.13	117.20
1	A	728	ASN	CA-C-N	-6.84	102.15	117.20
1	S	555	TYR	CB-CG-CD2	-6.82	116.91	121.00
1	M	75	ASP	N-CA-CB	6.80	122.84	110.60
1	M	450	ASP	CB-CG-OD2	6.79	124.41	118.30
1	M	555	TYR	CB-CG-CD2	-6.79	116.93	121.00
1	D	450	ASP	CB-CG-OD2	6.78	124.40	118.30
1	S	450	ASP	CB-CG-OD2	6.77	124.39	118.30
1	D	75	ASP	N-CA-CB	6.76	122.78	110.60
1	G	781	ASP	CB-CG-OD1	-6.73	112.24	118.30
1	J	555	TYR	CB-CG-CD2	-6.73	116.96	121.00
1	M	709	LYS	CA-C-N	-6.73	102.75	116.20
1	A	450	ASP	CB-CG-OD2	6.71	124.34	118.30
1	J	450	ASP	CB-CG-OD2	6.71	124.34	118.30
4	5	196	ARG	NE-CZ-NH1	6.71	123.66	120.30
1	S	75	ASP	CB-CG-OD2	6.70	124.33	118.30
1	G	555	TYR	CB-CG-CD2	-6.68	116.99	121.00
1	M	219	GLU	N-CA-C	-6.68	92.98	111.00
1	G	756	THR	N-CA-CB	-6.67	97.62	110.30
1	S	756	THR	N-CA-CB	-6.67	97.63	110.30
1	S	219	GLU	N-CA-C	-6.65	93.04	111.00
1	J	219	GLU	N-CA-C	-6.65	93.06	111.00
1	D	756	THR	N-CA-CB	-6.64	97.67	110.30
1	J	75	ASP	CB-CG-OD2	6.64	124.28	118.30
1	G	219	GLU	N-CA-C	-6.64	93.06	111.00
1	M	756	THR	N-CA-CB	-6.64	97.69	110.30
4	5	169	TYR	CB-CG-CD2	-6.64	117.02	121.00
1	A	781	ASP	CB-CG-OD1	-6.62	112.34	118.30
1	J	756	THR	N-CA-CB	-6.62	97.72	110.30
1	M	75	ASP	CB-CG-OD2	6.62	124.25	118.30
1	A	219	GLU	N-CA-C	-6.61	93.15	111.00
4	7	196	ARG	NE-CZ-NH1	6.61	123.61	120.30
1	D	781	ASP	CB-CG-OD1	-6.61	112.35	118.30
1	J	781	ASP	CB-CG-OD1	-6.61	112.35	118.30
4	V	169	TYR	CB-CG-CD2	-6.61	117.04	121.00
1	M	781	ASP	CB-CG-OD1	-6.60	112.36	118.30
1	D	219	GLU	N-CA-C	-6.59	93.20	111.00
1	A	756	THR	N-CA-CB	-6.59	97.78	110.30
4	Y	169	TYR	CB-CG-CD2	-6.59	117.05	121.00
1	A	75	ASP	CB-CG-OD2	6.58	124.22	118.30
1	D	555	TYR	CB-CG-CD2	-6.57	117.06	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	75	ASP	CB-CG-OD2	6.57	124.21	118.30
1	S	781	ASP	CB-CG-OD1	-6.57	112.39	118.30
1	D	332	MET	CG-SD-CE	-6.56	89.71	100.20
4	Y	283	MET	CG-SD-CE	6.55	110.69	100.20
1	M	332	MET	CG-SD-CE	-6.55	89.72	100.20
1	G	332	MET	CG-SD-CE	-6.55	89.72	100.20
4	3	283	MET	CG-SD-CE	6.55	110.68	100.20
1	J	141	LEU	CB-CA-C	-6.54	97.77	110.20
4	7	283	MET	CG-SD-CE	6.54	110.67	100.20
1	A	169	ASP	CB-CG-OD1	-6.54	112.41	118.30
4	8	169	TYR	CB-CG-CD2	-6.54	117.07	121.00
4	X	196	ARG	NE-CZ-NH1	6.54	123.57	120.30
4	2	283	MET	CG-SD-CE	6.54	110.67	100.20
4	X	283	MET	CG-SD-CE	6.54	110.67	100.20
1	A	332	MET	CG-SD-CE	-6.54	89.74	100.20
4	4	283	MET	CG-SD-CE	6.54	110.66	100.20
4	W	283	MET	CG-SD-CE	6.54	110.66	100.20
4	2	169	TYR	CB-CG-CD2	-6.54	117.08	121.00
4	6	196	ARG	NE-CZ-NH1	6.53	123.57	120.30
1	S	141	LEU	CB-CA-C	-6.53	97.79	110.20
4	5	283	MET	CG-SD-CE	6.53	110.65	100.20
4	Z	283	MET	CG-SD-CE	6.53	110.65	100.20
4	6	283	MET	CG-SD-CE	6.53	110.64	100.20
4	1	196	ARG	NE-CZ-NH1	6.53	123.56	120.30
1	A	555	TYR	CB-CG-CD2	-6.52	117.09	121.00
1	M	141	LEU	CB-CA-C	-6.52	97.81	110.20
4	1	283	MET	CG-SD-CE	6.52	110.64	100.20
4	8	283	MET	CG-SD-CE	6.52	110.63	100.20
1	G	141	LEU	CB-CA-C	-6.52	97.81	110.20
1	J	332	MET	CG-SD-CE	-6.52	89.77	100.20
1	S	332	MET	CG-SD-CE	-6.52	89.77	100.20
1	A	343	PHE	CB-CG-CD1	6.52	125.36	120.80
1	G	343	PHE	CB-CG-CD1	6.51	125.36	120.80
4	9	283	MET	CG-SD-CE	6.51	110.62	100.20
4	W	169	TYR	CB-CG-CD2	-6.51	117.09	121.00
1	D	141	LEU	CB-CA-C	-6.51	97.84	110.20
1	J	169	ASP	CB-CG-OD1	-6.50	112.45	118.30
4	V	283	MET	CG-SD-CE	6.50	110.61	100.20
1	D	343	PHE	CB-CG-CD1	6.50	125.35	120.80
1	M	169	ASP	CB-CG-OD1	-6.50	112.45	118.30
1	G	75	ASP	CB-CG-OD2	6.50	124.15	118.30
1	G	334	THR	CA-CB-CG2	-6.49	103.31	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	159	VAL	CB-CA-C	-6.49	99.06	111.40
1	D	334	THR	CA-CB-CG2	-6.49	103.31	112.40
4	4	169	TYR	CB-CG-CD2	-6.49	117.11	121.00
4	X	159	VAL	CB-CA-C	-6.49	99.07	111.40
4	Y	159	VAL	CB-CA-C	-6.48	99.08	111.40
4	4	159	VAL	CB-CA-C	-6.48	99.09	111.40
4	6	159	VAL	CB-CA-C	-6.48	99.09	111.40
4	7	159	VAL	CB-CA-C	-6.48	99.09	111.40
4	9	196	ARG	NE-CZ-NH1	6.48	123.54	120.30
4	8	196	ARG	NE-CZ-NH1	6.48	123.54	120.30
1	A	334	THR	CA-CB-CG2	-6.47	103.34	112.40
4	6	169	TYR	CB-CG-CD2	-6.47	117.12	121.00
4	V	159	VAL	CB-CA-C	-6.47	99.11	111.40
4	Z	169	TYR	CB-CG-CD2	-6.47	117.12	121.00
4	9	159	VAL	CB-CA-C	-6.46	99.12	111.40
4	8	159	VAL	CB-CA-C	-6.46	99.12	111.40
1	G	169	ASP	CB-CG-OD1	-6.46	112.48	118.30
4	W	196	ARG	NE-CZ-NH1	6.46	123.53	120.30
4	3	169	TYR	CB-CG-CD2	-6.46	117.12	121.00
1	S	334	THR	CA-CB-CG2	-6.45	103.37	112.40
4	W	159	VAL	CB-CA-C	-6.45	99.14	111.40
4	X	169	TYR	CB-CG-CD2	-6.45	117.13	121.00
4	5	159	VAL	CB-CA-C	-6.45	99.14	111.40
4	Z	159	VAL	CB-CA-C	-6.45	99.14	111.40
4	1	159	VAL	CB-CA-C	-6.45	99.15	111.40
2	E	141	PRO	N-CD-CG	-6.45	93.53	103.20
1	M	810	ARG	NE-CZ-NH1	6.44	123.52	120.30
1	M	334	THR	CA-CB-CG2	-6.44	103.38	112.40
4	2	159	VAL	CB-CA-C	-6.44	99.16	111.40
2	H	141	PRO	N-CD-CG	-6.44	93.54	103.20
4	7	169	TYR	CB-CG-CD2	-6.43	117.14	121.00
1	D	169	ASP	CB-CG-OD1	-6.43	112.51	118.30
1	S	169	ASP	CB-CG-OD1	-6.43	112.51	118.30
1	A	141	LEU	CB-CA-C	-6.43	97.98	110.20
4	Y	34	ILE	CA-CB-CG2	-6.43	98.05	110.90
1	J	129	TYR	CB-CG-CD2	-6.42	117.14	121.00
4	8	34	ILE	CA-CB-CG2	-6.42	98.05	110.90
4	V	196	ARG	NE-CZ-NH1	6.42	123.51	120.30
1	J	334	THR	CA-CB-CG2	-6.42	103.41	112.40
4	3	34	ILE	CA-CB-CG2	-6.42	98.06	110.90
4	9	34	ILE	CA-CB-CG2	-6.42	98.06	110.90
4	W	34	ILE	CA-CB-CG2	-6.42	98.06	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	196	ARG	NE-CZ-NH1	6.41	123.51	120.30
4	4	196	ARG	NE-CZ-NH1	6.41	123.51	120.30
4	7	34	ILE	CA-CB-CG2	-6.41	98.07	110.90
2	N	141	PRO	N-CD-CG	-6.41	93.58	103.20
1	J	779	ARG	NE-CZ-NH1	6.41	123.50	120.30
4	9	169	TYR	CB-CG-CD2	-6.41	117.16	121.00
1	G	589	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	A	589	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	M	589	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	S	129	TYR	CB-CG-CD2	-6.40	117.16	121.00
4	5	34	ILE	CA-CB-CG2	-6.40	98.10	110.90
4	Z	34	ILE	CA-CB-CG2	-6.40	98.11	110.90
1	S	327	ASP	CB-CG-OD2	6.40	124.06	118.30
2	K	141	PRO	N-CD-CG	-6.39	93.61	103.20
4	6	34	ILE	CA-CB-CG2	-6.39	98.11	110.90
1	J	589	ASP	CB-CG-OD1	-6.39	112.55	118.30
4	V	34	ILE	CA-CB-CG2	-6.39	98.12	110.90
4	X	34	ILE	CA-CB-CG2	-6.38	98.13	110.90
1	M	343	PHE	CB-CG-CD1	6.38	125.27	120.80
1	S	589	ASP	CB-CG-OD1	-6.38	112.56	118.30
4	1	34	ILE	CA-CB-CG2	-6.38	98.13	110.90
4	2	34	ILE	CA-CB-CG2	-6.38	98.14	110.90
4	4	34	ILE	CA-CB-CG2	-6.38	98.15	110.90
1	A	341	LEU	CB-CA-C	6.37	122.30	110.20
2	T	141	PRO	N-CD-CG	-6.37	93.65	103.20
4	Y	196	ARG	NE-CZ-NH1	6.36	123.48	120.30
4	1	169	TYR	CB-CG-CD2	-6.36	117.19	121.00
1	G	341	LEU	CB-CA-C	6.34	122.25	110.20
1	M	129	TYR	CB-CG-CD2	-6.34	117.20	121.00
2	B	141	PRO	N-CD-CG	-6.33	93.70	103.20
1	D	589	ASP	CB-CG-OD1	-6.33	112.60	118.30
1	M	578	HIS	N-CA-CB	6.33	121.99	110.60
1	J	810	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	S	343	PHE	CB-CG-CD1	6.32	125.23	120.80
1	S	578	HIS	N-CA-CB	6.32	121.98	110.60
4	X	217	CYS	CA-CB-SG	-6.32	102.62	114.00
1	M	341	LEU	CB-CA-C	6.32	122.21	110.20
1	D	129	TYR	CB-CG-CD2	-6.32	117.21	121.00
1	G	590	TYR	CB-CG-CD2	6.32	124.79	121.00
1	G	578	HIS	N-CA-CB	6.32	121.97	110.60
4	Z	196	ARG	NE-CZ-NH1	6.32	123.46	120.30
1	J	343	PHE	CB-CG-CD1	6.31	125.22	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	779	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	S	341	LEU	CB-CA-C	6.30	122.17	110.20
4	1	217	CYS	CA-CB-SG	-6.30	102.67	114.00
4	5	217	CYS	CA-CB-SG	-6.30	102.67	114.00
4	2	196	ARG	NE-CZ-NH1	6.29	123.45	120.30
4	8	217	CYS	CA-CB-SG	-6.29	102.67	114.00
1	J	341	LEU	CB-CA-C	6.29	122.15	110.20
4	7	217	CYS	CA-CB-SG	-6.29	102.68	114.00
4	4	217	CYS	CA-CB-SG	-6.29	102.68	114.00
4	V	217	CYS	CA-CB-SG	-6.29	102.68	114.00
4	6	217	CYS	CA-CB-SG	-6.29	102.69	114.00
1	A	578	HIS	N-CA-CB	6.28	121.91	110.60
4	2	217	CYS	CA-CB-SG	-6.28	102.69	114.00
1	J	327	ASP	CB-CG-OD2	6.28	123.95	118.30
4	Z	217	CYS	CA-CB-SG	-6.28	102.70	114.00
4	9	217	CYS	CA-CB-SG	-6.28	102.70	114.00
1	A	463	ASP	CB-CG-OD2	-6.28	112.65	118.30
4	Y	217	CYS	CA-CB-SG	-6.28	102.70	114.00
1	J	760	PHE	CB-CG-CD2	-6.27	116.41	120.80
4	3	217	CYS	CA-CB-SG	-6.27	102.72	114.00
2	N	129	THR	CB-CA-C	-6.27	94.68	111.60
1	D	341	LEU	CB-CA-C	6.26	122.10	110.20
1	J	578	HIS	N-CA-CB	6.26	121.88	110.60
4	W	217	CYS	CA-CB-SG	-6.26	102.73	114.00
1	D	760	PHE	CB-CG-CD2	-6.25	116.43	120.80
2	K	129	THR	CB-CA-C	-6.24	94.76	111.60
1	M	327	ASP	CB-CG-OD2	6.24	123.91	118.30
2	T	129	THR	CB-CA-C	-6.24	94.76	111.60
2	H	129	THR	CB-CA-C	-6.21	94.82	111.60
1	D	578	HIS	N-CA-CB	6.21	121.78	110.60
1	A	129	TYR	CB-CG-CD2	-6.20	117.28	121.00
1	A	780	ASP	CB-CG-OD2	6.20	123.88	118.30
1	G	129	TYR	CB-CG-CD2	-6.20	117.28	121.00
1	G	104	TYR	CB-CG-CD1	-6.19	117.28	121.00
1	J	214	MET	CG-SD-CE	6.18	110.09	100.20
1	M	698	ASN	CB-CA-C	-6.18	98.04	110.40
1	S	214	MET	CG-SD-CE	6.18	110.09	100.20
1	M	779	ARG	NE-CZ-NH1	6.18	123.39	120.30
1	G	327	ASP	CB-CG-OD2	6.17	123.86	118.30
1	S	698	ASN	CB-CA-C	-6.17	98.06	110.40
1	D	327	ASP	CB-CG-OD2	6.17	123.85	118.30
1	D	590	TYR	CB-CG-CD2	6.17	124.70	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	129	THR	CB-CA-C	-6.17	94.95	111.60
2	E	129	THR	CB-CA-C	-6.17	94.95	111.60
1	A	698	ASN	CB-CA-C	-6.16	98.08	110.40
1	D	214	MET	CG-SD-CE	6.16	110.06	100.20
1	A	214	MET	CG-SD-CE	6.16	110.06	100.20
1	G	810	ARG	NE-CZ-NH1	6.16	123.38	120.30
1	A	327	ASP	CB-CG-OD2	6.16	123.84	118.30
4	3	259	GLU	CA-CB-CG	6.16	126.94	113.40
1	S	752	ASP	CB-CG-OD2	6.15	123.84	118.30
1	G	214	MET	CG-SD-CE	6.15	110.04	100.20
2	K	141	PRO	N-CA-CB	-6.15	95.83	102.60
4	2	259	GLU	CA-CB-CG	6.15	126.93	113.40
4	W	259	GLU	CA-CB-CG	6.15	126.93	113.40
3	F	58	MET	CG-SD-CE	6.15	110.04	100.20
1	M	463	ASP	CB-CG-OD2	-6.15	112.77	118.30
1	M	214	MET	CG-SD-CE	6.14	110.03	100.20
2	N	141	PRO	N-CA-CB	-6.14	95.84	102.60
2	E	129	THR	CA-CB-CG2	6.14	120.99	112.40
2	T	141	PRO	N-CA-CB	-6.14	95.85	102.60
4	1	259	GLU	CA-CB-CG	6.14	126.90	113.40
4	V	259	GLU	CA-CB-CG	6.14	126.90	113.40
1	S	104	TYR	CB-CG-CD1	-6.14	117.32	121.00
1	D	779	ARG	NE-CZ-NH1	6.13	123.37	120.30
1	J	698	ASN	CB-CA-C	-6.13	98.14	110.40
4	9	259	GLU	CA-CB-CG	6.13	126.89	113.40
2	H	141	PRO	N-CA-CB	-6.13	95.86	102.60
1	S	682	THR	CA-CB-CG2	-6.13	103.82	112.40
4	8	259	GLU	CA-CB-CG	6.13	126.88	113.40
2	E	141	PRO	N-CA-CB	-6.13	95.86	102.60
4	X	259	GLU	CA-CB-CG	6.13	126.88	113.40
3	O	58	MET	CG-SD-CE	6.12	110.00	100.20
1	J	752	ASP	CB-CG-OD2	6.12	123.81	118.30
1	S	810	ARG	NE-CZ-NH1	6.12	123.36	120.30
4	5	259	GLU	CA-CB-CG	6.12	126.86	113.40
4	Z	259	GLU	CA-CB-CG	6.12	126.86	113.40
1	G	463	ASP	CB-CG-OD2	-6.12	112.80	118.30
4	4	259	GLU	CA-CB-CG	6.12	126.86	113.40
4	7	259	GLU	CA-CB-CG	6.12	126.86	113.40
4	Y	259	GLU	CA-CB-CG	6.12	126.85	113.40
4	6	259	GLU	CA-CB-CG	6.11	126.85	113.40
1	J	590	TYR	CB-CG-CD2	6.11	124.67	121.00
1	G	698	ASN	CB-CA-C	-6.11	98.18	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	760	PHE	CB-CG-CD2	-6.11	116.53	120.80
1	D	698	ASN	CB-CA-C	-6.10	98.19	110.40
1	S	760	PHE	CB-CG-CD2	-6.10	116.53	120.80
1	A	810	ARG	NE-CZ-NH1	6.10	123.35	120.30
3	L	58	MET	CG-SD-CE	6.10	109.96	100.20
1	S	463	ASP	CB-CG-OD2	-6.10	112.81	118.30
1	J	104	TYR	CB-CG-CD1	-6.09	117.34	121.00
1	M	760	PHE	CB-CG-CD2	-6.09	116.54	120.80
4	2	349	LEU	CA-C-N	-6.09	103.81	117.20
1	M	104	TYR	CB-CG-CD1	-6.08	117.35	121.00
1	A	682	THR	CA-CB-CG2	-6.08	103.88	112.40
1	J	682	THR	CA-CB-CG2	-6.08	103.89	112.40
4	7	349	LEU	CA-C-N	-6.08	103.82	117.20
1	J	463	ASP	CB-CG-OD2	-6.08	112.83	118.30
4	3	349	LEU	CA-C-N	-6.08	103.83	117.20
4	4	349	LEU	CA-C-N	-6.08	103.83	117.20
1	M	682	THR	CA-CB-CG2	-6.07	103.90	112.40
1	G	625	THR	CA-CB-OG1	6.07	121.75	109.00
4	9	349	LEU	CA-C-N	-6.07	103.85	117.20
4	9	16	LEU	CA-CB-CG	6.07	129.25	115.30
1	D	104	TYR	CB-CG-CD1	-6.06	117.36	121.00
1	J	450	ASP	CB-CG-OD1	-6.06	112.84	118.30
1	J	625	THR	CA-CB-OG1	6.06	121.72	109.00
3	U	58	MET	CG-SD-CE	6.06	109.90	100.20
4	Z	16	LEU	CA-CB-CG	6.06	129.24	115.30
2	B	129	THR	CA-CB-CG2	6.06	120.88	112.40
1	D	810	ARG	NE-CZ-NH1	6.06	123.33	120.30
4	V	16	LEU	CA-CB-CG	6.05	129.23	115.30
4	V	349	LEU	CA-C-N	-6.05	103.88	117.20
4	3	16	LEU	CA-CB-CG	6.05	129.22	115.30
4	V	335	ARG	NE-CZ-NH2	-6.05	117.28	120.30
1	M	450	ASP	CB-CG-OD1	-6.05	112.86	118.30
4	6	16	LEU	CA-CB-CG	6.05	129.21	115.30
4	X	16	LEU	CA-CB-CG	6.05	129.21	115.30
4	6	349	LEU	CA-C-N	-6.04	103.90	117.20
4	Z	349	LEU	CA-C-N	-6.04	103.90	117.20
1	S	590	TYR	CB-CG-CD2	6.04	124.63	121.00
1	S	665	ARG	NE-CZ-NH2	-6.04	117.28	120.30
4	2	16	LEU	CA-CB-CG	6.04	129.20	115.30
4	8	16	LEU	CA-CB-CG	6.04	129.20	115.30
2	B	141	PRO	N-CA-CB	-6.04	95.95	102.60
1	M	752	ASP	CB-CG-OD2	6.04	123.74	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	16	LEU	CA-CB-CG	6.04	129.19	115.30
3	C	58	MET	CG-SD-CE	6.04	109.86	100.20
2	H	129	THR	CA-CB-CG2	6.04	120.86	112.40
3	I	58	MET	CG-SD-CE	6.04	109.86	100.20
4	5	349	LEU	CA-C-N	-6.04	103.92	117.20
4	X	349	LEU	CA-C-N	-6.04	103.92	117.20
4	Y	16	LEU	CA-CB-CG	6.04	129.19	115.30
1	A	779	ARG	NE-CZ-NH1	6.04	123.32	120.30
1	D	682	THR	CA-CB-CG2	-6.03	103.95	112.40
1	G	682	THR	CA-CB-CG2	-6.03	103.95	112.40
1	M	192	VAL	CA-CB-CG1	-6.03	101.85	110.90
1	S	625	THR	CA-CB-OG1	6.03	121.67	109.00
4	7	16	LEU	CA-CB-CG	6.03	129.17	115.30
4	W	16	LEU	CA-CB-CG	6.03	129.17	115.30
1	D	378	ASP	CB-CG-OD1	-6.03	112.87	118.30
1	S	192	VAL	CA-CB-CG1	-6.03	101.85	110.90
1	M	625	THR	CA-CB-OG1	6.03	121.66	109.00
4	5	16	LEU	CA-CB-CG	6.03	129.17	115.30
4	W	349	LEU	CA-C-N	-6.03	103.94	117.20
4	1	349	LEU	CA-C-N	-6.03	103.95	117.20
4	8	79	TRP	CG-CD2-CE3	6.03	139.32	133.90
1	D	625	THR	CA-CB-OG1	6.02	121.64	109.00
1	G	346	ASP	CB-CG-OD1	6.02	123.72	118.30
4	4	16	LEU	CA-CB-CG	6.02	129.15	115.30
1	J	192	VAL	CA-CB-CG1	-6.02	101.88	110.90
4	8	349	LEU	CA-C-N	-6.02	103.97	117.20
4	Y	349	LEU	CA-C-N	-6.01	103.97	117.20
1	A	590	TYR	CB-CG-CD2	6.01	124.61	121.00
1	A	625	THR	CA-CB-OG1	6.01	121.62	109.00
2	T	129	THR	CA-CB-CG2	6.00	120.80	112.40
1	G	760	PHE	CB-CG-CD2	-6.00	116.60	120.80
1	J	447	GLN	N-CA-CB	6.00	121.40	110.60
1	J	665	ARG	NE-CZ-NH2	-6.00	117.30	120.30
1	A	447	GLN	N-CA-CB	6.00	121.39	110.60
1	D	346	ASP	CB-CG-OD1	6.00	123.70	118.30
1	S	447	GLN	N-CA-CB	6.00	121.39	110.60
1	M	447	GLN	N-CA-CB	5.99	121.38	110.60
1	G	192	VAL	CA-CB-CG1	-5.99	101.92	110.90
1	S	450	ASP	CB-CG-OD1	-5.99	112.91	118.30
1	D	192	VAL	CA-CB-CG1	-5.99	101.92	110.90
1	S	785	GLU	C-N-CA	5.99	136.66	121.70
1	G	780	ASP	CB-CG-OD2	5.98	123.68	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	129	THR	CA-CB-CG2	5.98	120.78	112.40
4	W	335	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	G	779	ARG	NE-CZ-NH1	5.98	123.29	120.30
4	7	116	ARG	NE-CZ-NH1	5.98	123.29	120.30
1	D	471	ASP	CB-CG-OD1	-5.98	112.92	118.30
1	A	665	ARG	NE-CZ-NH2	-5.97	117.31	120.30
1	G	447	GLN	N-CA-CB	5.96	121.34	110.60
1	D	447	GLN	N-CA-CB	5.96	121.33	110.60
1	S	780	ASP	CB-CG-OD2	5.96	123.66	118.30
1	M	665	ARG	NE-CZ-NH2	-5.96	117.32	120.30
4	1	79	TRP	CG-CD2-CE3	5.96	139.26	133.90
4	Z	79	TRP	CG-CD2-CE3	5.96	139.26	133.90
1	G	754	ASP	CB-CG-OD2	-5.96	112.94	118.30
2	N	129	THR	CA-CB-CG2	5.95	120.73	112.40
1	D	339	ASP	CB-CG-OD2	5.95	123.65	118.30
4	1	335	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	M	590	TYR	CB-CG-CD2	5.94	124.57	121.00
4	X	79	TRP	CG-CD2-CE3	5.94	139.25	133.90
1	D	450	ASP	CB-CG-OD1	-5.94	112.96	118.30
1	D	463	ASP	CB-CG-OD2	-5.93	112.96	118.30
1	D	780	ASP	CB-CG-OD2	5.93	123.64	118.30
4	2	79	TRP	CG-CD2-CE3	5.93	139.24	133.90
4	3	335	ARG	NE-CZ-NH2	-5.93	117.33	120.30
1	J	378	ASP	CB-CG-OD1	-5.93	112.97	118.30
1	M	346	ASP	CB-CG-OD1	5.93	123.64	118.30
1	S	378	ASP	CB-CG-OD1	-5.93	112.97	118.30
1	A	754	ASP	CB-CG-OD2	-5.92	112.97	118.30
1	G	339	ASP	CB-CG-OD2	5.92	123.63	118.30
1	S	346	ASP	CB-CG-OD1	5.92	123.63	118.30
1	M	780	ASP	CB-CG-OD2	5.92	123.63	118.30
1	S	754	ASP	CB-CG-OD2	-5.92	112.97	118.30
4	X	254	ARG	NE-CZ-NH1	5.92	123.26	120.30
1	A	104	TYR	CB-CG-CD1	-5.92	117.45	121.00
4	Z	116	ARG	NE-CZ-NH1	5.91	123.26	120.30
1	A	192	VAL	CA-CB-CG1	-5.91	102.03	110.90
1	M	378	ASP	CB-CG-OD1	-5.91	112.98	118.30
1	D	754	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	G	378	ASP	CB-CG-OD1	-5.91	112.98	118.30
1	J	780	ASP	CB-CG-OD2	5.91	123.62	118.30
1	D	738	MET	CG-SD-CE	5.90	109.65	100.20
4	7	200	PHE	CA-C-N	-5.90	104.21	117.20
1	A	809	ARG	NE-CZ-NH2	-5.90	117.35	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	815	CYS	CA-CB-SG	-5.90	103.38	114.00
1	D	556	ASP	CB-CG-OD1	-5.90	112.99	118.30
1	G	665	ARG	NE-CZ-NH2	-5.89	117.35	120.30
1	J	754	ASP	CB-CG-OD2	-5.89	112.99	118.30
1	G	450	ASP	CB-CG-OD1	-5.89	113.00	118.30
1	G	752	ASP	CB-CG-OD2	5.89	123.60	118.30
4	3	79	TRP	CG-CD2-CE3	5.89	139.20	133.90
4	8	335	ARG	NE-CZ-NH2	-5.89	117.36	120.30
4	1	200	PHE	CA-C-N	-5.89	104.25	117.20
1	J	346	ASP	CB-CG-OD1	5.89	123.60	118.30
4	3	200	PHE	CA-C-N	-5.89	104.25	117.20
4	6	200	PHE	CA-C-N	-5.88	104.27	117.20
4	W	200	PHE	CA-C-N	-5.88	104.27	117.20
4	Y	79	TRP	CG-CD2-CE3	5.88	139.19	133.90
4	6	79	TRP	CG-CD2-CE3	5.88	139.19	133.90
1	G	738	MET	CG-SD-CE	5.87	109.60	100.20
4	9	116	ARG	NE-CZ-NH1	5.87	123.24	120.30
4	V	200	PHE	CA-C-N	-5.87	104.28	117.20
4	X	200	PHE	CA-C-N	-5.87	104.28	117.20
4	X	335	ARG	NE-CZ-NH2	-5.87	117.36	120.30
4	6	335	ARG	NE-CZ-NH2	-5.87	117.37	120.30
1	S	339	ASP	CB-CG-OD2	5.87	123.58	118.30
1	A	450	ASP	CB-CG-OD1	-5.86	113.02	118.30
1	A	378	ASP	CB-CG-OD1	-5.86	113.03	118.30
4	4	116	ARG	NE-CZ-NH1	5.86	123.23	120.30
4	5	200	PHE	CA-C-N	-5.86	104.31	117.20
4	8	200	PHE	CA-C-N	-5.86	104.31	117.20
4	X	116	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	G	780	ASP	CB-CG-OD1	-5.86	113.03	118.30
4	3	116	ARG	NE-CZ-NH1	5.86	123.23	120.30
4	7	335	ARG	NE-CZ-NH2	-5.86	117.37	120.30
1	S	809	ARG	NE-CZ-NH2	-5.86	117.37	120.30
4	Y	200	PHE	CA-C-N	-5.85	104.32	117.20
4	9	200	PHE	CA-C-N	-5.85	104.33	117.20
1	M	815	CYS	CA-CB-SG	-5.85	103.47	114.00
1	A	738	MET	CG-SD-CE	5.85	109.56	100.20
1	J	738	MET	CG-SD-CE	5.85	109.56	100.20
1	S	738	MET	CG-SD-CE	5.85	109.55	100.20
4	V	116	ARG	NE-CZ-NH1	5.84	123.22	120.30
4	2	200	PHE	CA-C-N	-5.84	104.35	117.20
4	9	79	TRP	CG-CD2-CE3	5.84	139.16	133.90
1	M	339	ASP	CB-CG-OD2	5.84	123.56	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	738	MET	CG-SD-CE	5.84	109.54	100.20
1	A	780	ASP	CB-CG-OD1	-5.83	113.05	118.30
1	G	556	ASP	CB-CG-OD1	-5.83	113.05	118.30
4	4	79	TRP	CG-CD2-CE3	5.83	139.15	133.90
4	5	79	TRP	CG-CD2-CE3	5.83	139.15	133.90
1	S	815	CYS	CA-CB-SG	-5.83	103.51	114.00
1	J	815	CYS	CA-CB-SG	-5.83	103.51	114.00
4	W	116	ARG	NE-CZ-NH1	5.83	123.21	120.30
4	4	200	PHE	CA-C-N	-5.83	104.39	117.20
1	M	556	ASP	CB-CG-OD1	-5.82	113.06	118.30
1	J	556	ASP	CB-CG-OD1	-5.82	113.06	118.30
1	M	754	ASP	CB-CG-OD2	-5.82	113.06	118.30
4	3	95	ARG	CA-CB-CG	5.82	126.19	113.40
4	9	254	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	G	809	ARG	NE-CZ-NH2	-5.81	117.39	120.30
4	4	95	ARG	CA-CB-CG	5.81	126.19	113.40
1	A	471	ASP	CB-CG-OD1	-5.81	113.07	118.30
4	W	79	TRP	CG-CD2-CE3	5.81	139.13	133.90
1	D	815	CYS	CA-CB-SG	-5.81	103.55	114.00
1	A	752	ASP	CB-CG-OD2	5.80	123.52	118.30
4	Z	200	PHE	CA-C-N	-5.80	104.43	117.20
4	7	79	TRP	CG-CD2-CE3	5.80	139.12	133.90
4	7	254	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	M	471	ASP	CB-CG-OD1	-5.80	113.08	118.30
4	W	95	ARG	CA-CB-CG	5.80	126.15	113.40
1	S	471	ASP	CB-CG-OD1	-5.79	113.08	118.30
4	2	95	ARG	CA-CB-CG	5.79	126.14	113.40
4	Z	335	ARG	NE-CZ-NH2	-5.79	117.40	120.30
1	J	339	ASP	CB-CG-OD2	5.79	123.51	118.30
1	S	556	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	A	556	ASP	CB-CG-OD1	-5.79	113.09	118.30
1	D	665	ARG	NE-CZ-NH2	-5.79	117.41	120.30
4	1	95	ARG	CA-CB-CG	5.79	126.13	113.40
4	9	95	ARG	CA-CB-CG	5.79	126.13	113.40
4	X	95	ARG	CA-CB-CG	5.79	126.13	113.40
1	A	339	ASP	CB-CG-OD2	5.78	123.50	118.30
1	J	471	ASP	CB-CG-OD1	-5.78	113.09	118.30
4	1	254	ARG	NE-CZ-NH1	5.78	123.19	120.30
4	5	335	ARG	NE-CZ-NH2	-5.78	117.41	120.30
4	V	79	TRP	CG-CD2-CE3	5.78	139.11	133.90
4	2	335	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	D	809	ARG	NE-CZ-NH2	-5.78	117.41	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	809	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	M	809	ARG	NE-CZ-NH2	-5.78	117.41	120.30
4	8	95	ARG	CA-CB-CG	5.78	126.11	113.40
4	4	335	ARG	NE-CZ-NH2	-5.78	117.41	120.30
1	D	752	ASP	CB-CG-OD2	5.77	123.50	118.30
4	7	95	ARG	CA-CB-CG	5.77	126.10	113.40
4	6	95	ARG	CA-CB-CG	5.77	126.09	113.40
4	Z	95	ARG	CA-CB-CG	5.77	126.09	113.40
4	Y	95	ARG	CA-CB-CG	5.77	126.09	113.40
4	V	95	ARG	CA-CB-CG	5.76	126.08	113.40
4	9	335	ARG	NE-CZ-NH2	-5.76	117.42	120.30
4	Z	254	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	D	352	TYR	N-CA-CB	5.76	120.96	110.60
4	4	254	ARG	NE-CZ-NH1	5.76	123.18	120.30
2	B	149	ASP	N-CA-CB	5.75	120.96	110.60
4	5	254	ARG	NE-CZ-NH1	5.75	123.18	120.30
4	Y	254	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	S	4	ASP	CB-CG-OD2	5.75	123.47	118.30
4	5	116	ARG	NE-CZ-NH1	5.75	123.17	120.30
4	8	254	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	A	346	ASP	CB-CG-OD1	5.75	123.47	118.30
1	M	165	PHE	N-CA-CB	-5.75	100.26	110.60
4	5	95	ARG	CA-CB-CG	5.75	126.04	113.40
1	G	471	ASP	CB-CG-OD1	-5.74	113.13	118.30
4	2	116	ARG	NE-CZ-NH1	5.73	123.17	120.30
1	S	780	ASP	CB-CG-OD1	-5.73	113.14	118.30
1	A	165	PHE	N-CA-CB	-5.73	100.29	110.60
4	Y	335	ARG	CA-CB-CG	5.72	125.99	113.40
2	H	149	ASP	N-CA-CB	5.72	120.90	110.60
1	J	4	ASP	CB-CG-OD2	5.72	123.45	118.30
2	T	149	ASP	N-CA-CB	5.72	120.89	110.60
4	Z	335	ARG	CA-CB-CG	5.71	125.97	113.40
4	1	116	ARG	NE-CZ-NH1	5.71	123.16	120.30
4	5	335	ARG	CA-CB-CG	5.71	125.97	113.40
4	9	335	ARG	CA-CB-CG	5.71	125.97	113.40
1	S	165	PHE	N-CA-CB	-5.71	100.32	110.60
1	G	4	ASP	CB-CG-OD2	5.71	123.43	118.30
1	D	4	ASP	CB-CG-OD2	5.70	123.43	118.30
1	G	165	PHE	N-CA-CB	-5.70	100.33	110.60
1	J	165	PHE	N-CA-CB	-5.70	100.33	110.60
1	G	815	CYS	CA-CB-SG	-5.70	103.74	114.00
4	8	335	ARG	CA-CB-CG	5.70	125.94	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7	335	ARG	CA-CB-CG	5.70	125.94	113.40
1	A	4	ASP	CB-CG-OD2	5.70	123.43	118.30
4	3	335	ARG	CA-CB-CG	5.70	125.93	113.40
1	M	780	ASP	CB-CG-OD1	-5.69	113.17	118.30
4	8	116	ARG	NE-CZ-NH1	5.69	123.15	120.30
4	1	335	ARG	CA-CB-CG	5.69	125.92	113.40
4	6	335	ARG	CA-CB-CG	5.69	125.92	113.40
4	X	335	ARG	CA-CB-CG	5.69	125.92	113.40
1	D	165	PHE	N-CA-CB	-5.69	100.36	110.60
4	2	254	ARG	NE-CZ-NH1	5.69	123.15	120.30
4	W	335	ARG	CA-CB-CG	5.69	125.92	113.40
4	2	335	ARG	CA-CB-CG	5.69	125.92	113.40
4	V	335	ARG	CA-CB-CG	5.69	125.91	113.40
2	E	149	ASP	N-CA-CB	5.68	120.83	110.60
4	4	335	ARG	CA-CB-CG	5.68	125.91	113.40
4	V	254	ARG	NE-CZ-NH1	5.68	123.14	120.30
4	W	254	ARG	NE-CZ-NH1	5.68	123.14	120.30
1	D	780	ASP	CB-CG-OD1	-5.68	113.19	118.30
4	3	254	ARG	NE-CZ-NH1	5.67	123.14	120.30
2	N	149	ASP	N-CA-CB	5.67	120.80	110.60
1	M	4	ASP	CB-CG-OD2	5.66	123.40	118.30
4	5	279	TYR	CB-CG-CD2	-5.66	117.60	121.00
1	G	352	TYR	N-CA-CB	5.66	120.78	110.60
4	Y	335	ARG	NE-CZ-NH2	-5.65	117.47	120.30
4	6	254	ARG	NE-CZ-NH1	5.65	123.12	120.30
1	G	693	HIS	CA-CB-CG	-5.64	104.01	113.60
4	Y	116	ARG	NE-CZ-NH1	5.64	123.12	120.30
1	G	781	ASP	CB-CG-OD2	5.63	123.37	118.30
1	D	781	ASP	CB-CG-OD2	5.63	123.37	118.30
1	G	785	GLU	O-C-N	5.63	131.71	122.70
4	1	294	TYR	CB-CG-CD2	-5.63	117.62	121.00
1	J	352	TYR	N-CA-CB	5.62	120.72	110.60
1	M	352	TYR	N-CA-CB	5.62	120.72	110.60
1	S	693	HIS	CA-CB-CG	-5.62	104.04	113.60
4	6	116	ARG	NE-CZ-NH1	5.62	123.11	120.30
2	K	149	ASP	N-CA-CB	5.62	120.71	110.60
4	1	113	LYS	CA-CB-CG	5.61	125.74	113.40
4	9	113	LYS	CA-CB-CG	5.61	125.73	113.40
1	A	352	TYR	N-CA-CB	5.61	120.69	110.60
1	S	352	TYR	N-CA-CB	5.60	120.68	110.60
1	J	693	HIS	CA-CB-CG	-5.60	104.08	113.60
1	M	686	MET	N-CA-CB	-5.60	100.53	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4	113	LYS	CA-CB-CG	5.59	125.71	113.40
4	8	356	TRP	CG-CD2-CE3	5.59	138.94	133.90
4	8	294	TYR	CB-CG-CD2	-5.59	117.64	121.00
4	W	356	TRP	CG-CD2-CE3	5.59	138.93	133.90
4	7	356	TRP	CG-CD2-CE3	5.59	138.93	133.90
1	M	693	HIS	CA-CB-CG	-5.59	104.10	113.60
4	7	11	ASP	CB-CG-OD1	5.59	123.33	118.30
4	Y	113	LYS	CA-CB-CG	5.59	125.69	113.40
1	D	693	HIS	CA-CB-CG	-5.58	104.11	113.60
4	W	113	LYS	CA-CB-CG	5.58	125.68	113.40
4	3	356	TRP	CG-CD2-CE3	5.58	138.92	133.90
4	Z	113	LYS	CA-CB-CG	5.58	125.68	113.40
4	2	113	LYS	CA-CB-CG	5.58	125.67	113.40
4	6	113	LYS	CA-CB-CG	5.57	125.66	113.40
1	A	241	ASP	CB-CG-OD2	5.57	123.31	118.30
4	5	294	TYR	CB-CG-CD2	-5.57	117.66	121.00
1	J	780	ASP	CB-CG-OD1	-5.57	113.29	118.30
4	3	113	LYS	CA-CB-CG	5.57	125.65	113.40
4	8	279	TYR	CB-CG-CD2	-5.57	117.66	121.00
4	Y	279	TYR	CB-CG-CD2	-5.57	117.66	121.00
1	A	752	ASP	CB-CA-C	5.57	121.53	110.40
4	3	254	ARG	N-CA-CB	-5.57	100.58	110.60
4	V	113	LYS	CA-CB-CG	5.57	125.64	113.40
4	5	113	LYS	CA-CB-CG	5.56	125.64	113.40
4	7	113	LYS	CA-CB-CG	5.56	125.64	113.40
4	7	294	TYR	CB-CG-CD2	-5.56	117.66	121.00
1	D	384	ASP	CB-CG-OD1	-5.55	113.30	118.30
4	7	279	TYR	CB-CG-CD2	-5.55	117.67	121.00
1	G	320	ILE	CB-CA-C	-5.55	100.50	111.60
4	X	113	LYS	CA-CB-CG	5.55	125.61	113.40
1	M	33	ASP	CB-CG-OD2	5.55	123.29	118.30
1	G	686	MET	N-CA-CB	-5.55	100.62	110.60
1	J	686	MET	N-CA-CB	-5.55	100.62	110.60
4	5	254	ARG	N-CA-CB	-5.55	100.62	110.60
1	S	686	MET	N-CA-CB	-5.54	100.62	110.60
4	V	254	ARG	N-CA-CB	-5.54	100.62	110.60
1	D	306	THR	CA-CB-CG2	-5.54	104.64	112.40
4	8	113	LYS	CA-CB-CG	5.54	125.59	113.40
4	6	254	ARG	N-CA-CB	-5.54	100.63	110.60
4	2	356	TRP	CG-CD2-CE3	5.54	138.88	133.90
4	1	356	TRP	CG-CD2-CE3	5.54	138.88	133.90
4	6	279	TYR	CB-CG-CD2	-5.54	117.68	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2	279	TYR	CB-CG-CD2	-5.53	117.68	121.00
4	8	254	ARG	N-CA-CB	-5.53	100.64	110.60
4	4	279	TYR	CB-CG-CD2	-5.53	117.68	121.00
4	2	254	ARG	N-CA-CB	-5.53	100.65	110.60
4	4	356	TRP	CG-CD2-CE3	5.53	138.88	133.90
1	D	752	ASP	CB-CA-C	5.53	121.45	110.40
1	A	781	ASP	CB-CG-OD2	5.53	123.27	118.30
4	W	279	TYR	CB-CG-CD2	-5.53	117.68	121.00
4	3	294	TYR	CB-CG-CD2	-5.52	117.69	121.00
4	9	254	ARG	N-CA-CB	-5.52	100.66	110.60
4	V	294	TYR	CB-CG-CD2	-5.52	117.69	121.00
1	J	781	ASP	CB-CG-OD2	5.52	123.27	118.30
1	D	686	MET	N-CA-CB	-5.52	100.67	110.60
1	A	693	HIS	CA-CB-CG	-5.52	104.22	113.60
4	5	356	TRP	CG-CD2-CE3	5.52	138.86	133.90
4	9	294	TYR	CB-CG-CD2	-5.52	117.69	121.00
4	Z	254	ARG	N-CA-CB	-5.52	100.67	110.60
1	A	686	MET	N-CA-CB	-5.51	100.67	110.60
4	3	11	ASP	CB-CG-OD1	5.51	123.26	118.30
4	6	294	TYR	CB-CG-CD2	-5.51	117.69	121.00
4	8	11	ASP	CB-CG-OD1	5.51	123.26	118.30
1	J	752	ASP	CB-CA-C	5.51	121.42	110.40
1	M	752	ASP	CB-CA-C	5.51	121.42	110.40
4	7	254	ARG	N-CA-CB	-5.51	100.68	110.60
4	X	254	ARG	N-CA-CB	-5.51	100.68	110.60
4	Z	11	ASP	CB-CG-OD1	5.51	123.26	118.30
4	1	254	ARG	N-CA-CB	-5.51	100.68	110.60
4	1	279	TYR	CB-CG-CD2	-5.51	117.69	121.00
1	J	547	ASP	CB-CG-OD2	5.51	123.26	118.30
1	S	752	ASP	CB-CA-C	5.51	121.42	110.40
4	9	356	TRP	CG-CD2-CE3	5.51	138.86	133.90
1	J	33	ASP	CB-CG-OD2	5.50	123.25	118.30
4	5	11	ASP	CB-CG-OD1	5.50	123.25	118.30
4	W	11	ASP	CB-CG-OD1	5.50	123.25	118.30
4	4	254	ARG	N-CA-CB	-5.50	100.70	110.60
1	D	723	ARG	NE-CZ-NH1	5.50	123.05	120.30
1	J	320	ILE	CB-CA-C	-5.50	100.60	111.60
4	6	356	TRP	CG-CD2-CE3	5.50	138.85	133.90
1	D	33	ASP	CB-CG-OD2	5.50	123.25	118.30
1	G	306	THR	CA-CB-CG2	-5.50	104.70	112.40
1	M	781	ASP	CB-CG-OD2	5.50	123.25	118.30
4	V	279	TYR	CB-CG-CD2	-5.50	117.70	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	W	254	ARG	N-CA-CB	-5.49	100.71	110.60
1	G	752	ASP	CB-CA-C	5.49	121.38	110.40
4	X	356	TRP	CG-CD2-CE3	5.49	138.84	133.90
1	M	320	ILE	CB-CA-C	-5.49	100.62	111.60
4	Z	294	TYR	CB-CG-CD2	-5.49	117.71	121.00
1	S	320	ILE	CB-CA-C	-5.49	100.63	111.60
1	S	781	ASP	CB-CG-OD2	5.49	123.24	118.30
4	4	294	TYR	CB-CG-CD2	-5.49	117.71	121.00
4	4	11	ASP	CB-CG-OD1	5.48	123.23	118.30
1	D	320	ILE	CB-CA-C	-5.48	100.64	111.60
1	M	326	ASP	CB-CG-OD2	5.48	123.23	118.30
1	M	723	ARG	NE-CZ-NH1	5.48	123.04	120.30
4	V	356	TRP	CG-CD2-CE3	5.48	138.83	133.90
4	X	11	ASP	CB-CG-OD1	5.48	123.23	118.30
4	Y	254	ARG	N-CA-CB	-5.48	100.74	110.60
4	X	294	TYR	CB-CG-CD2	-5.47	117.72	121.00
4	4	79	TRP	CB-CG-CD1	-5.47	119.89	127.00
4	Z	356	TRP	CG-CD2-CE3	5.47	138.82	133.90
4	3	279	TYR	CB-CG-CD2	-5.47	117.72	121.00
1	J	343	PHE	CB-CG-CD2	-5.47	116.97	120.80
1	A	306	THR	CA-CB-CG2	-5.47	104.75	112.40
4	V	147	ARG	NE-CZ-NH2	-5.47	117.57	120.30
4	9	11	ASP	CB-CG-OD1	5.46	123.22	118.30
4	W	294	TYR	CB-CG-CD2	-5.46	117.72	121.00
1	S	547	ASP	CB-CG-OD2	5.46	123.21	118.30
4	2	294	TYR	CB-CG-CD2	-5.46	117.73	121.00
4	V	11	ASP	CB-CG-OD1	5.46	123.21	118.30
4	8	356	TRP	CB-CG-CD1	-5.45	119.91	127.00
1	J	326	ASP	CB-CG-OD2	5.45	123.21	118.30
1	M	343	PHE	CB-CG-CD2	-5.45	116.98	120.80
1	G	326	ASP	CB-CG-OD2	5.45	123.20	118.30
4	6	79	TRP	CB-CG-CD1	-5.45	119.92	127.00
4	Y	294	TYR	CB-CG-CD2	-5.45	117.73	121.00
4	2	79	TRP	CB-CG-CD1	-5.45	119.92	127.00
4	1	11	ASP	CB-CG-OD1	5.44	123.20	118.30
4	Y	11	ASP	CB-CG-OD1	5.44	123.20	118.30
4	9	79	TRP	CB-CG-CD1	-5.44	119.93	127.00
4	X	356	TRP	CB-CG-CD1	-5.44	119.93	127.00
1	A	33	ASP	CB-CG-OD2	5.44	123.19	118.30
1	S	33	ASP	CB-CG-OD2	5.44	123.19	118.30
4	7	356	TRP	CB-CG-CD1	-5.44	119.93	127.00
4	9	356	TRP	CB-CG-CD1	-5.44	119.93	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	279	TYR	CB-CG-CD2	-5.44	117.74	121.00
4	W	79	TRP	CB-CG-CD1	-5.43	119.93	127.00
1	A	320	ILE	CB-CA-C	-5.43	100.73	111.60
1	J	306	THR	CA-CB-CG2	-5.43	104.80	112.40
4	7	79	TRP	CB-CG-CD1	-5.43	119.94	127.00
1	M	218	LEU	O-C-N	5.43	131.38	122.70
1	S	326	ASP	CB-CG-OD2	5.43	123.18	118.30
1	D	343	PHE	CB-CG-CD2	-5.42	117.00	120.80
4	1	356	TRP	CB-CG-CD1	-5.42	119.96	127.00
4	4	356	TRP	CB-CG-CD1	-5.41	119.96	127.00
1	M	306	THR	CA-CB-CG2	-5.41	104.83	112.40
4	X	279	TYR	CB-CG-CD2	-5.41	117.75	121.00
4	5	356	TRP	CB-CG-CD1	-5.41	119.97	127.00
1	J	384	ASP	CB-CG-OD1	-5.41	113.44	118.30
4	3	356	TRP	CB-CG-CD1	-5.41	119.97	127.00
1	G	723	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	M	547	ASP	CB-CG-OD2	5.40	123.16	118.30
1	S	343	PHE	CB-CG-CD2	-5.40	117.02	120.80
4	2	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	5	79	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	6	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	X	147	ARG	NE-CZ-NH2	-5.40	117.60	120.30
4	Y	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	Y	356	TRP	CG-CD2-CE3	5.40	138.76	133.90
1	S	306	THR	CA-CB-CG2	-5.40	104.84	112.40
1	D	547	ASP	CB-CG-OD2	5.40	123.16	118.30
1	D	326	ASP	CB-CG-OD2	5.39	123.16	118.30
4	V	356	TRP	CB-CG-CD1	-5.39	119.99	127.00
1	G	241	ASP	CB-CG-OD2	5.39	123.15	118.30
4	6	356	TRP	CG-CD1-NE1	-5.39	104.71	110.10
4	X	79	TRP	CB-CG-CD1	-5.39	119.99	127.00
4	1	147	ARG	NE-CZ-NH2	-5.39	117.61	120.30
4	8	147	ARG	NE-CZ-NH2	-5.39	117.61	120.30
4	9	356	TRP	CG-CD1-NE1	-5.38	104.72	110.10
1	S	384	ASP	CB-CG-OD1	-5.38	113.45	118.30
4	9	251	GLY	CA-C-N	-5.38	105.36	117.20
4	2	147	ARG	NE-CZ-NH2	-5.38	117.61	120.30
4	Z	79	TRP	CB-CG-CD1	-5.38	120.01	127.00
4	1	79	TRP	CB-CG-CD1	-5.38	120.01	127.00
4	2	11	ASP	CB-CG-OD1	5.38	123.14	118.30
4	2	356	TRP	CG-CD1-NE1	-5.38	104.72	110.10
4	Z	356	TRP	CB-CG-CD1	-5.38	120.01	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	79	TRP	CB-CG-CD1	-5.38	120.01	127.00
4	Y	79	TRP	CB-CG-CD1	-5.37	120.02	127.00
1	G	343	PHE	CB-CG-CD2	-5.37	117.04	120.80
1	M	241	ASP	CB-CG-OD2	5.37	123.13	118.30
1	S	723	ARG	NE-CZ-NH1	5.37	122.99	120.30
4	W	356	TRP	CB-CG-CD1	-5.37	120.02	127.00
4	5	356	TRP	CG-CD1-NE1	-5.37	104.73	110.10
4	9	279	TYR	CB-CG-CD2	-5.37	117.78	121.00
4	X	356	TRP	CG-CD1-NE1	-5.37	104.73	110.10
4	Y	356	TRP	CG-CD1-NE1	-5.37	104.73	110.10
4	8	335	ARG	NE-CZ-NH1	5.36	122.98	120.30
2	K	136	MET	CG-SD-CE	5.36	108.78	100.20
4	3	79	TRP	CB-CG-CD1	-5.36	120.03	127.00
1	G	686	MET	CG-SD-CE	-5.36	91.62	100.20
1	M	800	ARG	NH1-CZ-NH2	5.36	125.30	119.40
4	3	251	GLY	CA-C-N	-5.36	105.42	117.20
4	8	79	TRP	CB-CG-CD1	-5.36	120.04	127.00
4	8	356	TRP	CG-CD1-NE1	-5.36	104.74	110.10
4	Y	62	ARG	NE-CZ-NH1	5.36	122.98	120.30
1	G	555	TYR	CB-CG-CD1	5.36	124.21	121.00
4	7	356	TRP	CG-CD1-NE1	-5.36	104.74	110.10
4	Y	251	GLY	CA-C-N	-5.36	105.42	117.20
1	A	686	MET	CG-SD-CE	-5.35	91.63	100.20
1	A	326	ASP	CB-CG-OD2	5.35	123.12	118.30
2	B	136	MET	CG-SD-CE	5.35	108.76	100.20
1	J	723	ARG	NE-CZ-NH1	5.35	122.98	120.30
4	1	251	GLY	CA-C-N	-5.35	105.43	117.20
1	A	384	ASP	CB-CG-OD1	-5.35	113.48	118.30
1	D	800	ARG	NH1-CZ-NH2	5.35	125.28	119.40
1	J	170	ARG	NE-CZ-NH1	5.35	122.97	120.30
4	1	335	ARG	NE-CZ-NH1	5.35	122.97	120.30
1	G	601	ASP	CB-CG-OD2	5.35	123.11	118.30
1	J	686	MET	CG-SD-CE	-5.35	91.64	100.20
2	T	136	MET	CG-SD-CE	5.35	108.75	100.20
1	J	218	LEU	O-C-N	5.34	131.25	122.70
4	6	251	GLY	CA-C-N	-5.34	105.44	117.20
4	W	251	GLY	CA-C-N	-5.34	105.44	117.20
2	N	136	MET	CG-SD-CE	5.34	108.75	100.20
1	S	218	LEU	O-C-N	5.34	131.25	122.70
4	5	251	GLY	CA-C-N	-5.34	105.45	117.20
1	A	343	PHE	CB-CG-CD2	-5.34	117.06	120.80
4	8	251	GLY	CA-C-N	-5.34	105.45	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	251	GLY	CA-C-N	-5.34	105.45	117.20
4	2	251	GLY	CA-C-N	-5.34	105.46	117.20
4	6	11	ASP	CB-CG-OD1	5.34	123.10	118.30
4	Z	176	MET	CG-SD-CE	5.34	108.74	100.20
1	M	686	MET	CG-SD-CE	-5.33	91.67	100.20
1	A	723	ARG	NE-CZ-NH1	5.33	122.97	120.30
1	G	125	THR	CA-CB-CG2	-5.33	104.93	112.40
1	S	241	ASP	CB-CG-OD2	5.33	123.10	118.30
4	X	251	GLY	CA-C-N	-5.33	105.47	117.20
1	D	241	ASP	CB-CG-OD2	5.33	123.10	118.30
1	D	601	ASP	CB-CG-OD2	5.33	123.10	118.30
4	5	147	ARG	NE-CZ-NH2	-5.33	117.64	120.30
4	V	356	TRP	CG-CD1-NE1	-5.33	104.77	110.10
1	S	686	MET	CG-SD-CE	-5.33	91.67	100.20
4	1	356	TRP	CG-CD1-NE1	-5.33	104.77	110.10
4	3	147	ARG	NE-CZ-NH2	-5.33	117.64	120.30
4	4	356	TRP	CG-CD1-NE1	-5.33	104.77	110.10
4	V	335	ARG	NE-CZ-NH1	5.33	122.97	120.30
4	7	251	GLY	CA-C-N	-5.33	105.48	117.20
4	X	176	MET	CG-SD-CE	5.33	108.72	100.20
4	7	176	MET	CG-SD-CE	5.33	108.72	100.20
4	4	251	GLY	CA-C-N	-5.32	105.49	117.20
4	W	356	TRP	CG-CD1-NE1	-5.32	104.78	110.10
4	Z	251	GLY	CA-C-N	-5.32	105.50	117.20
4	8	176	MET	CG-SD-CE	5.32	108.71	100.20
1	J	241	ASP	CB-CG-OD2	5.32	123.09	118.30
4	9	147	ARG	NE-CZ-NH2	-5.31	117.64	120.30
4	W	176	MET	CG-SD-CE	5.31	108.70	100.20
1	D	354	LEU	CB-CG-CD2	-5.31	101.97	111.00
4	Y	176	MET	CG-SD-CE	5.31	108.69	100.20
2	H	136	MET	CG-SD-CE	5.31	108.69	100.20
4	V	176	MET	CG-SD-CE	5.31	108.69	100.20
1	G	354	LEU	CB-CG-CD2	-5.31	101.98	111.00
4	3	356	TRP	CG-CD1-NE1	-5.30	104.80	110.10
4	4	337	TYR	CB-CG-CD1	-5.30	117.82	121.00
1	D	686	MET	CG-SD-CE	-5.30	91.72	100.20
1	J	800	ARG	NH1-CZ-NH2	5.30	125.23	119.40
4	4	176	MET	CG-SD-CE	5.30	108.68	100.20
1	A	601	ASP	CB-CG-OD2	5.30	123.07	118.30
4	Z	147	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	J	601	ASP	CB-CG-OD2	5.29	123.06	118.30
1	G	33	ASP	CB-CG-OD2	5.29	123.06	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	384	ASP	CB-CG-OD1	-5.29	113.54	118.30
1	G	218	LEU	O-C-N	5.29	131.16	122.70
2	E	136	MET	CG-SD-CE	5.28	108.65	100.20
1	M	384	ASP	CB-CG-OD1	-5.28	113.55	118.30
4	5	176	MET	CG-SD-CE	5.28	108.65	100.20
1	A	218	LEU	O-C-N	5.28	131.15	122.70
1	D	125	THR	CA-CB-CG2	-5.28	105.01	112.40
4	2	176	MET	CG-SD-CE	5.28	108.65	100.20
4	1	176	MET	CG-SD-CE	5.28	108.64	100.20
4	6	176	MET	CG-SD-CE	5.28	108.64	100.20
1	A	354	LEU	CB-CG-CD2	-5.28	102.03	111.00
1	M	601	ASP	CB-CG-OD2	5.28	123.05	118.30
1	S	660	LEU	CB-CG-CD2	5.28	119.97	111.00
1	S	800	ARG	NH1-CZ-NH2	5.27	125.20	119.40
4	7	147	ARG	NE-CZ-NH2	-5.27	117.66	120.30
1	G	660	LEU	CB-CG-CD2	5.27	119.96	111.00
4	3	176	MET	CG-SD-CE	5.27	108.63	100.20
1	S	125	THR	CA-CB-CG2	-5.27	105.03	112.40
4	9	176	MET	CG-SD-CE	5.27	108.63	100.20
4	Z	62	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	A	547	ASP	CB-CG-OD2	5.26	123.04	118.30
1	A	125	THR	CA-CB-CG2	-5.26	105.03	112.40
1	D	660	LEU	CB-CG-CD2	5.26	119.94	111.00
1	M	125	THR	CA-CB-CG2	-5.26	105.03	112.40
4	W	335	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	J	4	ASP	CB-CG-OD1	-5.26	113.57	118.30
1	M	660	LEU	CB-CG-CD2	5.26	119.94	111.00
1	M	346	ASP	N-CA-CB	-5.26	101.14	110.60
4	4	335	ARG	NE-CZ-NH1	5.26	122.93	120.30
4	Z	356	TRP	CG-CD1-NE1	-5.25	104.85	110.10
1	A	660	LEU	CB-CG-CD2	5.25	119.92	111.00
1	J	125	THR	CA-CB-CG2	-5.25	105.05	112.40
1	J	660	LEU	CB-CG-CD2	5.25	119.92	111.00
4	6	91	TYR	CB-CG-CD2	-5.25	117.85	121.00
4	W	337	TYR	CB-CG-CD1	-5.25	117.85	121.00
4	1	337	TYR	CB-CG-CD1	-5.24	117.86	121.00
1	A	760	PHE	CB-CG-CD1	5.24	124.47	120.80
1	J	354	LEU	CB-CG-CD2	-5.24	102.09	111.00
1	G	547	ASP	CB-CG-OD2	5.24	123.01	118.30
1	S	601	ASP	CB-CG-OD2	5.23	123.01	118.30
1	M	354	LEU	CB-CG-CD2	-5.23	102.11	111.00
1	D	760	PHE	CB-CG-CD1	5.23	124.46	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	760	PHE	CB-CG-CD1	5.23	124.46	120.80
1	S	346	ASP	N-CA-CB	-5.22	101.20	110.60
4	V	62	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	S	170	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	5	335	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	7	62	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	A	346	ASP	N-CA-CB	-5.22	101.20	110.60
1	S	354	LEU	CB-CG-CD2	-5.22	102.13	111.00
4	5	337	TYR	CB-CG-CD1	-5.22	117.87	121.00
4	6	335	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	M	555	TYR	CB-CG-CD1	5.22	124.13	121.00
1	G	800	ARG	NH1-CZ-NH2	5.22	125.14	119.40
4	9	335	ARG	NE-CZ-NH1	5.22	122.91	120.30
4	1	53	TYR	CB-CG-CD1	-5.21	117.87	121.00
4	Z	91	TYR	CB-CG-CD2	-5.21	117.87	121.00
1	G	4	ASP	CB-CG-OD1	-5.20	113.62	118.30
1	D	346	ASP	N-CA-CB	-5.20	101.24	110.60
1	S	4	ASP	CB-CG-OD1	-5.20	113.62	118.30
4	X	91	TYR	CB-CG-CD2	-5.19	117.88	121.00
1	D	170	ARG	NE-CZ-NH1	5.19	122.89	120.30
1	M	160	ASP	CB-CG-OD2	-5.19	113.63	118.30
4	W	147	ARG	NE-CZ-NH2	-5.19	117.70	120.30
4	X	335	ARG	NE-CZ-NH1	5.19	122.89	120.30
4	Z	335	ARG	NE-CZ-NH1	5.19	122.89	120.30
1	D	4	ASP	CB-CG-OD1	-5.19	113.63	118.30
1	M	4	ASP	CB-CG-OD1	-5.19	113.63	118.30
1	J	346	ASP	N-CA-CB	-5.19	101.26	110.60
4	W	62	ARG	NE-CZ-NH1	5.19	122.89	120.30
1	A	90	ASP	CB-CG-OD1	-5.19	113.63	118.30
1	D	218	LEU	O-C-N	5.18	130.99	122.70
4	4	147	ARG	NE-CZ-NH2	-5.18	117.71	120.30
4	6	147	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	A	800	ARG	NH1-CZ-NH2	5.18	125.10	119.40
4	4	290	ARG	CA-C-N	5.18	128.60	117.20
4	7	290	ARG	CA-C-N	5.18	128.59	117.20
4	Y	147	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	S	555	TYR	CB-CG-CD1	5.18	124.11	121.00
4	8	62	ARG	NE-CZ-NH1	5.18	122.89	120.30
1	S	760	PHE	CB-CG-CD1	5.17	124.42	120.80
4	Y	290	ARG	CA-C-N	5.17	128.58	117.20
4	7	337	TYR	CB-CG-CD1	-5.17	117.90	121.00
1	A	555	TYR	CB-CG-CD1	5.17	124.10	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	290	ARG	CA-C-N	5.17	128.57	117.20
4	W	290	ARG	CA-C-N	5.17	128.57	117.20
4	3	62	ARG	NE-CZ-NH1	5.16	122.88	120.30
1	G	170	ARG	NE-CZ-NH1	5.16	122.88	120.30
1	M	170	ARG	NE-CZ-NH1	5.16	122.88	120.30
4	3	335	ARG	NE-CZ-NH1	5.16	122.88	120.30
4	Z	290	ARG	CA-C-N	5.16	128.55	117.20
4	8	290	ARG	CA-C-N	5.16	128.54	117.20
4	X	290	ARG	CA-C-N	5.15	128.54	117.20
1	A	160	ASP	CB-CG-OD2	-5.15	113.66	118.30
4	2	335	ARG	NE-CZ-NH1	5.15	122.88	120.30
4	V	290	ARG	CA-C-N	5.15	128.54	117.20
4	X	337	TYR	CB-CG-CD1	-5.15	117.91	121.00
4	3	290	ARG	CA-C-N	5.15	128.53	117.20
4	3	337	TYR	CB-CG-CD1	-5.15	117.91	121.00
4	Y	337	TYR	CB-CG-CD1	-5.15	117.91	121.00
4	6	290	ARG	CA-C-N	5.14	128.50	117.20
4	6	337	TYR	CB-CG-CD1	-5.13	117.92	121.00
4	9	290	ARG	CA-C-N	5.13	128.49	117.20
4	9	337	TYR	CB-CG-CD1	-5.13	117.92	121.00
1	G	346	ASP	N-CA-CB	-5.13	101.37	110.60
4	2	290	ARG	CA-C-N	5.13	128.48	117.20
1	D	82	PRO	N-CA-CB	5.12	109.45	103.30
1	S	301	ASP	CB-CG-OD2	5.12	122.91	118.30
4	8	53	TYR	CB-CG-CD1	-5.12	117.92	121.00
4	8	337	TYR	CB-CG-CD1	-5.12	117.92	121.00
1	G	709	LYS	O-C-N	5.12	131.91	123.20
4	2	86	TRP	CG-CD1-NE1	-5.12	104.98	110.10
4	5	62	ARG	CA-CB-CG	5.12	124.67	113.40
4	5	290	ARG	CA-C-N	5.12	128.47	117.20
4	7	91	TYR	CB-CG-CD2	-5.12	117.93	121.00
1	M	82	PRO	N-CA-CB	5.12	109.44	103.30
1	D	576	GLU	CA-CB-CG	-5.12	102.15	113.40
1	G	576	GLU	CA-CB-CG	-5.12	102.15	113.40
4	9	53	TYR	CB-CG-CD1	-5.12	117.93	121.00
1	J	628	GLY	O-C-N	-5.11	114.52	122.70
4	1	91	TYR	CB-CG-CD2	-5.11	117.93	121.00
4	3	91	TYR	CB-CG-CD2	-5.11	117.93	121.00
1	S	628	GLY	O-C-N	-5.11	114.52	122.70
4	2	62	ARG	CA-CB-CG	5.11	124.64	113.40
4	1	62	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	A	4	ASP	CB-CG-OD1	-5.11	113.70	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	760	PHE	CB-CG-CD1	5.11	124.37	120.80
4	Y	91	TYR	CB-CG-CD2	-5.11	117.94	121.00
1	M	218	LEU	CA-CB-CG	5.10	127.04	115.30
4	Y	53	TYR	CB-CG-CD1	-5.10	117.94	121.00
4	Z	53	TYR	CB-CG-CD1	-5.10	117.94	121.00
4	6	62	ARG	CA-CB-CG	5.10	124.62	113.40
4	7	62	ARG	CA-CB-CG	5.10	124.62	113.40
4	2	91	TYR	CB-CG-CD2	-5.10	117.94	121.00
4	3	62	ARG	CA-CB-CG	5.10	124.62	113.40
4	5	62	ARG	NE-CZ-NH1	5.10	122.85	120.30
4	9	62	ARG	CA-CB-CG	5.10	124.62	113.40
1	D	218	LEU	CA-CB-CG	5.10	127.02	115.30
1	D	628	GLY	O-C-N	-5.10	114.55	122.70
1	J	555	TYR	CB-CG-CD1	5.10	124.06	121.00
1	J	576	GLU	CA-CB-CG	-5.10	102.19	113.40
4	W	62	ARG	CA-CB-CG	5.10	124.61	113.40
1	G	90	ASP	CB-CG-OD1	-5.09	113.72	118.30
4	6	53	TYR	CB-CG-CD1	-5.09	117.94	121.00
1	A	576	GLU	CA-CB-CG	-5.09	102.20	113.40
4	V	62	ARG	CA-CB-CG	5.09	124.60	113.40
4	Y	62	ARG	CA-CB-CG	5.09	124.60	113.40
4	Z	62	ARG	CA-CB-CG	5.09	124.60	113.40
1	A	218	LEU	CA-CB-CG	5.09	127.00	115.30
1	J	82	PRO	N-CA-CB	5.09	109.41	103.30
4	6	62	ARG	NE-CZ-NH1	5.09	122.84	120.30
4	7	335	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	M	576	GLU	CA-CB-CG	-5.08	102.22	113.40
1	S	218	LEU	CA-CB-CG	5.08	126.99	115.30
4	V	91	TYR	CB-CG-CD2	-5.08	117.95	121.00
1	A	621	LEU	CA-CB-CG	-5.08	103.61	115.30
4	4	62	ARG	CA-CB-CG	5.08	124.58	113.40
4	8	62	ARG	CA-CB-CG	5.08	124.58	113.40
1	M	463	ASP	CB-CG-OD1	5.08	122.87	118.30
1	J	160	ASP	CB-CG-OD2	-5.08	113.73	118.30
1	M	628	GLY	O-C-N	-5.08	114.57	122.70
1	S	82	PRO	N-CA-CB	5.08	109.39	103.30
1	S	576	GLU	CA-CB-CG	-5.08	102.24	113.40
4	V	53	TYR	CB-CG-CD1	-5.08	117.95	121.00
4	4	191	LYS	CA-C-N	5.07	128.36	117.20
4	9	191	LYS	CA-C-N	5.07	128.36	117.20
4	V	337	TYR	CB-CG-CD1	-5.07	117.96	121.00
4	Z	191	LYS	CA-C-N	5.07	128.36	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	218	LEU	CA-CB-CG	5.07	126.96	115.30
4	1	62	ARG	CA-CB-CG	5.07	124.55	113.40
4	W	191	LYS	CA-C-N	5.07	128.36	117.20
4	X	86	TRP	CG-CD1-NE1	-5.07	105.03	110.10
4	8	91	TYR	CB-CG-CD2	-5.07	117.96	121.00
1	A	235	ALA	N-CA-CB	-5.07	103.00	110.10
4	2	191	LYS	CA-C-N	5.07	128.35	117.20
4	6	86	TRP	CG-CD1-NE1	-5.07	105.03	110.10
4	5	53	TYR	CB-CG-CD1	-5.07	117.96	121.00
4	Y	335	ARG	NE-CZ-NH1	5.07	122.83	120.30
1	G	760	PHE	CB-CG-CD1	5.06	124.34	120.80
4	X	62	ARG	CA-CB-CG	5.06	124.54	113.40
4	5	191	LYS	CA-C-N	5.06	128.34	117.20
4	X	191	LYS	CA-C-N	5.06	128.33	117.20
1	G	621	LEU	CA-CB-CG	-5.06	103.66	115.30
4	1	191	LYS	CA-C-N	5.06	128.33	117.20
4	8	191	LYS	CA-C-N	5.06	128.33	117.20
4	V	191	LYS	CA-C-N	5.06	128.33	117.20
1	M	301	ASP	CB-CG-OD2	5.06	122.85	118.30
4	9	86	TRP	CG-CD1-NE1	-5.06	105.04	110.10
1	M	621	LEU	CA-CB-CG	-5.05	103.67	115.30
4	2	62	ARG	NE-CZ-NH1	5.05	122.83	120.30
4	3	86	TRP	CG-CD1-NE1	-5.05	105.05	110.10
4	7	191	LYS	CA-C-N	5.05	128.32	117.20
1	J	90	ASP	CB-CG-OD1	-5.05	113.75	118.30
1	D	621	LEU	CA-CB-CG	-5.05	103.69	115.30
4	4	91	TYR	CB-CG-CD2	-5.05	117.97	121.00
1	A	463	ASP	CB-CG-OD1	5.05	122.84	118.30
1	G	160	ASP	CB-CG-OD2	-5.05	113.76	118.30
1	J	301	ASP	CB-CG-OD2	5.05	122.84	118.30
4	3	191	LYS	CA-C-N	5.05	128.30	117.20
4	5	91	TYR	CB-CG-CD2	-5.05	117.97	121.00
4	6	191	LYS	CA-C-N	5.05	128.30	117.20
1	A	82	PRO	N-CA-CB	5.04	109.35	103.30
4	X	53	TYR	CB-CG-CD1	-5.04	117.97	121.00
1	G	628	GLY	O-C-N	-5.04	114.63	122.70
1	J	621	LEU	CA-CB-CG	-5.04	103.70	115.30
4	8	86	TRP	CG-CD1-NE1	-5.04	105.06	110.10
1	S	621	LEU	CA-CB-CG	-5.04	103.72	115.30
4	3	53	TYR	CB-CG-CD1	-5.04	117.98	121.00
4	4	53	TYR	CB-CG-CD1	-5.04	117.98	121.00
4	W	91	TYR	CB-CG-CD2	-5.03	117.98	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	86	TRP	CG-CD1-NE1	-5.03	105.07	110.10
4	Y	191	LYS	CA-C-N	5.03	128.28	117.20
4	2	53	TYR	CB-CG-CD1	-5.03	117.98	121.00
1	G	218	LEU	CA-CB-CG	5.03	126.87	115.30
1	S	235	ALA	N-CA-CB	-5.03	103.06	110.10
1	A	739	ASP	CA-CB-CG	-5.03	102.34	113.40
1	D	739	ASP	N-CA-CB	5.03	119.65	110.60
1	D	301	ASP	CB-CG-OD2	5.03	122.82	118.30
1	J	739	ASP	N-CA-CB	5.03	119.64	110.60
4	2	337	TYR	CB-CG-CD1	-5.02	117.98	121.00
1	D	160	ASP	CB-CG-OD2	-5.02	113.78	118.30
1	D	555	TYR	CB-CG-CD1	5.02	124.01	121.00
1	M	90	ASP	CB-CG-OD1	-5.02	113.78	118.30
1	S	160	ASP	CB-CG-OD2	-5.02	113.78	118.30
1	G	739	ASP	N-CA-CB	5.02	119.63	110.60
1	A	628	GLY	O-C-N	-5.01	114.69	122.70
4	X	62	ARG	NE-CZ-NH1	5.00	122.80	120.30
4	7	53	TYR	CB-CG-CD1	-5.00	118.00	121.00
4	W	53	TYR	CB-CG-CD1	-5.00	118.00	121.00

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

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Mol	Chain	Res	Type	Group
1	A	623	PHE	Sidechain
1	A	637	LYS	Mainchain
1	A	649	VAL	Mainchain
1	A	98	HIS	Mainchain
2	B	150	TYR	Sidechain
2	B	155	TYR	Mainchain
2	B	22	THR	Mainchain
3	C	75	ALA	Mainchain
3	C	85	GLU	Mainchain
1	D	623	PHE	Sidechain
1	D	637	LYS	Mainchain
1	D	649	VAL	Mainchain
1	D	98	HIS	Mainchain
2	E	150	TYR	Sidechain
2	E	155	TYR	Mainchain
2	E	22	THR	Mainchain
3	F	75	ALA	Mainchain
3	F	85	GLU	Mainchain
1	G	623	PHE	Sidechain
1	G	637	LYS	Mainchain
1	G	649	VAL	Mainchain
1	G	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	Mainchain,Peptide
1	J	98	HIS	Mainchain
2	K	150	TYR	Sidechain
2	K	155	TYR	Mainchain
2	K	22	THR	Mainchain
3	L	75	ALA	Mainchain
3	L	85	GLU	Mainchain
1	M	623	PHE	Sidechain
1	M	637	LYS	Mainchain
1	M	649	VAL	Mainchain
1	M	709	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	M	785	GLU	Mainchain,Peptide
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	Mainchain,Peptide
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 [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6797	0	6755	1473	0
1	D	6797	0	6759	1500	0
1	G	6797	0	6762	1471	0
1	J	6797	0	6761	1483	0
1	M	6797	0	6766	1434	0
1	S	6797	0	6764	1607	0
2	B	1127	0	1085	237	0
2	E	1127	0	1088	272	0
2	H	1127	0	1087	258	0
2	K	1127	0	1088	282	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	N	1127	0	1088	252	0
2	T	1127	0	1089	262	0
3	C	1123	0	1083	191	0
3	F	1123	0	1084	187	0
3	I	1123	0	1082	184	0
3	L	1123	0	1083	163	0
3	O	1123	0	1084	164	0
3	U	1123	0	1084	292	0
4	1	2906	0	2862	156	0
4	2	2906	0	2853	428	0
4	3	2906	0	2865	219	0
4	4	2906	0	2862	199	0
4	5	2906	0	2866	124	0
4	6	2906	0	2866	117	0
4	7	2906	0	2866	77	0
4	8	2906	0	2857	321	0
4	9	2906	0	2855	339	0
4	V	2906	0	2851	383	0
4	W	2906	0	2851	388	0
4	X	2906	0	2862	210	0
4	Y	2906	0	2861	167	0
4	Z	2906	0	2854	390	0
All	All	94966	0	93623	11394	0

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

All (11394) 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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:CG2	4:3:202:THR:HB	1.25	1.63
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: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
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:S:795:ARG:CG	3:U:118:MET:HE1	1.32	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
1:G:795:ARG:CG	3:I:118:MET:HE1	1.32	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
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: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:G:556:ASP:CG	4:X:47:MET:CE	1.76	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
1:J:556:ASP:CG	4:Y:47:MET:CE	1.76	1.52
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	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
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
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.51
1:M:799:MET:SD	3:O:32:ASP:HB3	1.50	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
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
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
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.50
1:M:783:LEU:HA	1:M:786:ILE:CG1	1.37	1.50
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	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: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
2:K:111:SER:HB2	2:K:148:VAL:C	1.22	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
2:B:111:SER:HB2	2:B:148:VAL:C	1.23	1.47
1:J:792:ALA:CB	3:L:42:THR:CG2	1.83	1.47
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.47
2:T:111:SER:HB2	2:T:148:VAL:C	1.23	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
2:N:111:SER:HB2	2:N:148:VAL:C	1.22	1.47
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.46
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.46
2:B:117:LEU:HD12	2:B:147:ASN:CG	1.30	1.46
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.29	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
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.46
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.46
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:M:641:LYS:CD	1:M:647:GLN:CD	1.85	1.45
1:M:783:LEU:CA	1:M:786:ILE:HG13	1.43	1.45
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	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:641:LYS:CD	1:J:647:GLN:CD	1.85	1.45
2:T:117:LEU:HD12	2:T:147:ASN:CG	1.29	1.45
2:N:117:LEU:HD12	2:N:147:ASN:CG	1.29	1.44
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:M:538:GLU:C	4:Z:349:LEU:CD1	1.84	1.44
1:A:795:ARG:NH2	3:C:116:GLU:CD	1.71	1.44
1:S:641:LYS:CD	1:S:647:GLN:CD	1.85	1.44
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.44
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.44
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.43
4:4:287:ILE:CB	4:6:202:THR:HB	1.44	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:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.43
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.67	1.42
1:G:641:LYS:CD	1:G:647:GLN:CD	1.85	1.42
1:M:783:LEU:HG	1:M:786:ILE:CD1	0.97	1.42
1:M:819:ASN:CG	2:N:92:ASP:HB2	1.36	1.42
1:S:505:MLY:HH11	1:S:762:HIS:NE2	1.21	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: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:538:GLU:C	4:2:349:LEU:CD1	1.84	1.41
1:S:796:GLY:HA2	3:U:35:ARG:CD	1.50	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:J:202:SER:HA	1:J:207:LYS:CE	1.51	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:218:LEU:CB	1:S:221:GLN:HG3	1.52	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
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: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: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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I: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: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:HG3	1:J:736:GLN:CG	1.15	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
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:M:641:LYS:CG	1:M:647:GLN:CD	1.93	1.37
1:S:641:LYS:CG	1:S:647:GLN:CD	1.93	1.37
1:S:728:ASN:OD1	3:U:90:GLY:CA	1.69	1.37
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	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: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:D:736:GLN:N	1:D:743:ALA:HB1	1.35	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:HG12	4:3:202:THR:C	1.42	1.36
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.36
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	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:S:795:ARG:HH11	3:U:43:ASN:CG	1.27	1.36
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.36
1:M:641:LYS:HG3	1:M:647:GLN:CD	1.46	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:641:LYS:HG3	1:S:647:GLN:CD	1.45	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
1:S:819:ASN:CG	2:T:92:ASP:HB2	1.46	1.35
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.35
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.35
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.45	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
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.35
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.34
1:J:817:GLN:HB3	2:K:127:ARG:CD	1.54	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: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:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	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:J:649:VAL:O	1:J:649:VAL:CG1	1.74	1.34
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:S:798:LEU:CD1	3:U:126:LEU:HD11	1.56	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:783:LEU:HA	1:S:786:ILE:CG1	1.58	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:M:635:GLY:CA	4:Z:334:GLU:HG2	1.59	1.33
1:M:829:TRP:CZ3	2:N:87:LYS:NZ	1.95	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
1:S:791:GLN:CD	3:U:116:GLU:H	1.32	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
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:D:641:LYS:HG3	1:D:647:GLN:CD	1.46	1.32
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.39	1.32
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	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
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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LYS:CG	1:M:736:GLN:CD	1.98	1.32
4:2:166:TYR:CE2	4:4:64:ILE:HG21	1.63	1.32
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	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
4:4:288:ASP:CG	4:6:203:THR:CG2	1.98	1.32
1:A:798:LEU:HD11	3:C:126:LEU:CD2	1.57	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:A:721:LYS:CG	1:A:736:GLN:CD	1.98	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
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	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:S:707:CYS:C	1:S:714:ARG:HH22	1.33	1.31
4:3:288:ASP:CG	4:5:203:THR:CG2	1.98	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: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:721:LYS:HG2	1:M:736:GLN:OE1	1.29	1.30
1:A:502:GLU:HG3	1:A:761:GLY:CA	1.61	1.30
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	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:721:LYS:CG	1:S:736:GLN:CD	1.98	1.30
1:S:725:ARG:NE	1:S:733:PRO:HB3	1.00	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:599:ASN:HA	1:A:649:VAL:CB	1.60	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:LEU:O	2:B:128:PHE:CB	1.79	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:A:537:GLU:C	4:8:349:LEU:HD13	1.52	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
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:CG	2:H:92:ASP:HB2	1.38	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:537:GLU:C	4:W:349:LEU:HD13	1.52	1.29
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.29
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.54	1.29
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.29
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.44	1.28
1:A:721:LYS:HG3	1:A:736:GLN:CD	1.53	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:M:735:GLY:C	1:M:743:ALA:CB	2.01	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
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.28
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.28
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.27	1.28
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.63	1.28
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.28
1:M:537:GLU:C	4:Z:349:LEU:HD13	1.52	1.28
1:S:834:LEU:HD13	2:T:51:PHE:CE1	1.67	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.28
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	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
1:S:735:GLY:C	1:S:743:ALA:CB	2.01	1.28
1:J:534:SER:O	4:W:351:THR:CA	1.82	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:G:721:LYS:HG3	1:G:736:GLN:CD	1.54	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:A:721:LYS:CG	1:A:736:GLN:OE1	1.82	1.27
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:S:795:ARG:CG	3:U:118:MET:CE	1.96	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
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.27
1:S:537:GLU:C	4:2:349:LEU:HD13	1.52	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
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.27
1:J:799:MET:SD	3:L:32:ASP:CG	2.13	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
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
4:2:287:ILE:HB	4:4:203:THR:CG2	1.62	1.27
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.26
1:M:721:LYS:HG3	1:M:736:GLN:CD	1.54	1.26
1:D:792:ALA:CB	3:F:42:THR:HG22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:721:LYS:HG3	1:D:736:GLN:CD	1.54	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:M:538:GLU:C	4:Z:349:LEU:HD12	1.48	1.26
1:S:786:ILE:O	1:S:789:ALA:N	1.67	1.26
1:S:721:LYS:HG3	1:S:736:GLN:CD	1.54	1.25
2:T:117:LEU:CD1	2:T:147:ASN:CG	2.05	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
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
4:4:287:ILE:HG23	4:6:202:THR:OG1	1.28	1.25
4:W:324:THR:HG21	4:Y:247:VAL:N	1.49	1.25
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.25
1:G:149:GLN:CD	1:G:763:THR:CG2	2.00	1.25
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	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:M:795:ARG:CG	3:O:118:MET:HE3	1.61	1.25
1:S:630:ALA:O	4:2:25:ASP:OD2	1.52	1.25
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.24
1:G:728:ASN:CG	3:I:114:LEU:CD2	2.03	1.24
1:M:819:ASN:CA	2:N:90:GLY:O	1.85	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:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.24
1:S:770:GLY:O	1:S:774:LEU:HB2	1.34	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:B:117:LEU:CD1	2:B:147:ASN:CG	2.05	1.24
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.36	1.24
2:N:117:LEU:CD1	2:N:147:ASN:CG	2.05	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
4:X:286:ASP:CG	4:Z:202:THR:HB	1.32	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
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.05	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
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:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.23
1:D:791:GLN:NE2	3:F:116:GLU:H	1.37	1.23
1:D:791:GLN:NE2	3:F:116:GLU:N	1.86	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
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	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
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	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:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.23
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.23
1:G:757:GLN:CG	1:G:776:GLU:CG	1.77	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:798:LEU:CD1	3:O:126:LEU:CD2	1.97	1.23
1:S:770:GLY:O	1:S:774:LEU:N	1.68	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:M:641:LYS:CD	1:M:647:GLN:NE2	1.99	1.23
1:S:641:LYS:CD	1:S:647:GLN:NE2	1.99	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
2:T:121:LEU:C	2:T:128:PHE:CB	2.07	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
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	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
1:M:629:GLU:CA	1:M:643:GLY:O	1.87	1.22
2:N:121:LEU:C	2:N:128:PHE:CB	2.07	1.22
1:S:93:MET:HE2	1:S:764:MLY:CB	1.69	1.22
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.22
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.22
1:D:534:SER:O	4:9:351:THR:CB	1.88	1.22
1:D:795:ARG:CG	3:F:118:MET:HE1	1.68	1.22
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	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
2:B:121:LEU:C	2:B:128:PHE:CB	2.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.21
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:770:GLY:C	1:S:771:LEU:C	1.99	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: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:M:641:LYS:CG	1:M:647:GLN:HG3	1.71	1.21
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
4:3:288:ASP:OD2	4:5:203:THR:CG2	1.89	1.21
1:D:791:GLN:HE22	3:F:115:GLY:C	1.43	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:S:538:GLU:C	4:2:349:LEU:HD12	1.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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
4:4:288:ASP:CG	4:6:203:THR:HG21	1.60	1.20
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.20
4:1:288:ASP:CG	4:3:203:THR:HG21	1.62	1.20
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.20
1:J:792:ALA:CA	3:L:42:THR:HG22	1.70	1.20
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.62	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:D:791:GLN:CD	3:F:116:GLU:H	1.45	1.20
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.20
1:G:754:ASP:CA	1:G:779:ARG:CD	2.17	1.20
1:J:756:THR:HG22	1:J:776:GLU:CD	1.59	1.20
1:M:538:GLU:OE2	4:Z:355:MET:CE	1.90	1.20
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	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:795:ARG:NH2	3:I:116:GLU:CG	2.05	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:731:ALA:HB1	3:U:93:VAL:C	1.61	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
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.19
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.18
1:J:95:THR:CA	1:J:713:SER:HB3	1.72	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
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
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	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
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: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: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
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:T:144:VAL:CG1	2:T:153:ILE:HD11	1.64	1.17
1:J:553:MLY:HE2	4:Y:45:VAL:CB	1.74	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: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
1:S:817:GLN:CB	2:T:127:ARG:HD2	1.73	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: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: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:530:MET:HE2	4:W:354:GLN:HG2	1.24	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
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:538:GLU:C	4:9:349:LEU:HD11	1.54	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
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: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: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: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:530:MET:HE2	4:V:354:GLN:CG	1.74	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
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
1:M:640:LYS:HB3	1:M:645:SER:OG	1.45	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
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.15
1:G:556:ASP:CG	4:X:47:MET:HE3	1.44	1.15
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.15
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:530:MET:HE2	4:2:354:GLN:HG2	1.24	1.15
1:S:641:LYS:CE	4:2:348:SER:O	1.93	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:538:GLU:O	4:8:349:LEU:HD11	1.35	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:D:530:MET:HE2	4:9:354:GLN:HG2	1.25	1.15
1:J:768:MLY:HB2	1:J:773:GLY:CA	1.74	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
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
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:S:735:GLY:O	1:S:743:ALA:CB	1.91	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
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.66	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
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.15
1:A:793:ARG:HH21	3:C:147:MET:HE2	1.00	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
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.15
1:J:556:ASP:CG	4:Y:47:MET:HE3	1.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.14
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:538:GLU:C	4:2:349:LEU:HD11	1.54	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:A:817:GLN:CD	2:B:127:ARG:NE	1.99	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
2:E:111:SER:CB	2:E:148:VAL:C	1.93	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: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
1:M:805:ALA:C	1:M:807:VAL:N	2.00	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: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
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
1:A:800:ARG:HD2	3:C:149:VAL:C	1.68	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:K:111:SER:CB	2:K:148:VAL:C	1.92	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:502:GLU:CG	1:A:761:GLY:CA	2.20	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: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:J:28:GLN:C	1:J:723:ARG:NH2	1.99	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:M:786:ILE:C	1:M:787:ILE:N	2.02	1.13
1:S:599:ASN:OD1	1:S:649:VAL:CB	1.96	1.13
2:T:121:LEU:C	2:T:128:PHE:HB2	1.67	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:J:817:GLN:CD	2:K:127:ARG:HD2	1.69	1.13
1:M:541:MET:C	4:Z:143:TYR:OH	1.87	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:530:MET:HE2	4:8:354:GLN:HG2	1.18	1.13
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.13
2:B:121:LEU:C	2:B:128:PHE:HB2	1.67	1.13
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:541:MET:C	4:V:143:TYR:OH	1.87	1.13
1:G:795:ARG:CZ	3:I:116:GLU:HB3	1.79	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: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: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:599:ASN:OD1	1:M:649:VAL:CB	1.96	1.13
2:N:121:LEU:C	2:N:128:PHE:HB2	1.67	1.12
1:S:93:MET:HE1	1:S:764:MLY:HB2	1.26	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:N:163:ALA:C	2:T:21:GLU:HB2	1.69	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
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.12
1:G:795:ARG:CB	3:I:118:MET:HE1	1.78	1.12
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.12
1:J:541:MET:C	4:W:143:TYR:OH	1.87	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:NZ	4:2:348:SER:O	1.80	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:287:ILE:CB	4:3:202:THR:HB	1.77	1.12
1:A:530:MET:HE2	4:8:354:GLN:CG	1.78	1.12
3:C:48:LYS:C	3:C:52:ASN:ND2	2.03	1.12
1:D:541:MET:C	4:9:143:TYR:OH	1.87	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:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.12
1:J:788:THR:O	3:L:42:THR:HG21	1.49	1.12
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	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
2:N:117:LEU:HD12	2:N:147:ASN:OD1	1.32	1.12
3:O:48:LYS:C	3:O:52:ASN:ND2	2.03	1.12
1:S:215:GLN:N	1:S:340:ILE:HG12	1.20	1.12
2:T:111:SER:CB	2:T:148:VAL:C	1.92	1.12
3:U:48:LYS:C	3:U:52:ASN:ND2	2.03	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: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: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:813:ILE:HG21	2:E:128:PHE:CE1	1.76	1.12
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	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
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.12
1:M:635:GLY:HA2	4:Z:334:GLU:HG2	1.16	1.12
1:M:641:LYS:CE	1:M:647:GLN:OE1	1.97	1.12
1:S:93:MET:HE3	1:S:764:MLY:HD2	1.27	1.12
1:S:721:LYS:HG3	1:S:736:GLN:HG2	1.25	1.12
4:X:324:THR:CG2	4:Z:247:VAL:CG2	2.26	1.12
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:795:ARG:HB3	3:C:35:ARG:NH1	1.62	1.11
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.11
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.59	1.11
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.70	1.11
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.11
1:G:754:ASP:CG	1:G:779:ARG:HD2	1.69	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
4:3:287: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:S:93:MET:CE	1:S:764:MLY:HD2	1.80	1.11
1:S:541:MET:C	4:2:143:TYR:OH	1.87	1.11
1:S:641:LYS:HG3	1:S:647:GLN:HG3	1.20	1.11
1:S:641:LYS:CE	1:S:647:GLN:CD	2.18	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:641:LYS:CE	1:A:647:GLN:CD	2.18	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:G:795:ARG:CG	3:I:118:MET:CE	2.04	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:M:838:ILE:HD11	2:N:54:MET:HE1	1.17	1.11
2:T:117:LEU:HB2	2:T:147:ASN:CG	1.70	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:541:MET:C	4:8:143:TYR:OH	1.87	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
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.70	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:798:LEU:HD12	3:O:126:LEU:HD21	1.28	1.11
1:M:817:GLN:HB3	2:N:127:ARG:HH11	1.13	1.11
1:S:806:MET:N	1:S:807:VAL:N	1.97	1.11
1:A:795:ARG:NE	3:C:43:ASN:OD1	1.82	1.11
2:B:117:LEU:HB2	2:B:147:ASN:CG	1.71	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
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.11
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.11
1:G:754:ASP:OD2	1:G:779:ARG:HB2	1.42	1.11
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.32	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:721:LYS:HG3	1:A:736:GLN:HG2	1.25	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: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
2:N:117:LEU:HB2	2:N:147:ASN:CG	1.70	1.10
4:4:288:ASP:CG	4:6:203:THR:HG23	1.66	1.10
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.10
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.10
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.10
1:G:149:GLN:CD	1:G:763:THR:HG21	1.60	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
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: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
2:H:111:SER:CB	2:H:148:VAL:C	1.93	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:641:LYS:CE	1:M:647:GLN:CD	2.18	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:831:TRP:HH2	2:N:47:LEU:HD21	1.15	1.10
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: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:641:LYS:CE	1:J:647:GLN:CD	2.18	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: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:757:GLN:OE1	1:A:771:LEU:HD12	1.49	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:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.09
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	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:HA	4:2:349:LEU:CD1	1.55	1.09
2:T:121:LEU:O	2:T:128:PHE:HB2	0.94	1.09
4:3:288:ASP:CG	4:5:203:THR:HG23	1.66	1.09
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.09
1:A:834:LEU:HD21	2:B:54:MET:HE2	1.26	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: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:S:641:LYS:HD2	1:S:647:GLN:CD	1.70	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:A:817:GLN:CD	2:B:127:ARG:CD	2.20	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:834:LEU:HD11	2:E:54:MET:CB	1.81	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:OE1	1.50	1.09
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	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: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: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
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:S:721:LYS:HA	1:S:736:GLN:CD	1.73	1.09
4:3:288:ASP:CG	4:5:203:THR:HG21	1.60	1.09
1:A:822:SER:OG	2:B:88:LEU:HD23	0.93	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:571:ALA:O	1:G:572:LYS:HG3	1.52	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:530:MET:HE2	4:Z:354:GLN:HG2	1.31	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:538:GLU:OE2	4:2:355:MET:HE1	1.48	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:709:LYS:C	1:A:710:GLY:HA3	1.73	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
1:G:819:ASN:CG	2:H:92:ASP:CB	2.14	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:M:641:LYS:HD2	1:M:647:GLN:NE2	1.59	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: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:94:MET:C	1:J:713:SER:HB3	1.72	1.08
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.08
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.16	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
2:N:111:SER:OG	2:N:148:VAL:O	1.71	1.08
1:S:817:GLN:CB	2:T:127:ARG:HH11	1.65	1.08
2:B:111:SER:CB	2:B:148:VAL:C	1.93	1.08
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.08
1:J:28:GLN:HA	1:J:723:ARG:NH2	1.17	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.25	1.08
1:M:529:PRO:HB3	4:Z:353:GLN:OE1	1.53	1.08
1:M:721:LYS:HA	1:M:736:GLN:CD	1.73	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
2:E:123:THR:HA	3:F:19:ARG:HH22	1.18	1.08
1:J:556:ASP:OD1	4:Y:47:MET:HE3	1.51	1.08
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	1.08
1:J:838:ILE:HD11	2:K:54:MET:HE3	1.31	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:538:GLU:OE2	4:8:355:MET:HE1	1.54	1.07
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:530:MET:HE2	4:V:354:GLN:HG2	1.15	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: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
2:B:121:LEU:C	2:B:128:PHE:HB3	1.72	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:6:3: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
1:S:571:ALA:O	1:S:572:LYS:HG3	1.52	1.07
1:S:783:LEU:C	1:S:786:ILE:HG13	1.72	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:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.07
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.07
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.07
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.37	1.07
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.53	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: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:530:MET:HE2	4:2:354:GLN:CG	1.84	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
2:T:121:LEU:C	2:T:128:PHE:HB3	1.72	1.07
4:2:290:ARG:HH21	4:4:202:THR:HG21	1.16	1.07
4:3:324:THR:OG1	4:5:244:ASP:HA	1.45	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:641:LYS:HD2	1:G:647:GLN:CD	1.70	1.07
1:G:643:GLY:O	1:G:644:SER:OG	1.70	1.07
1:M:538:GLU:C	4:Z:349:LEU:HD11	1.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:643:GLY:O	1:D:644:SER:OG	1.70	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: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
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
1:J:530:MET:HE2	4:W:354:GLN:CG	1.84	1.06
2:K:111:SER:OG	2:K:148:VAL:O	1.71	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:S:93:MET:CE	1:S:764:MLY:CB	2.27	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
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	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
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	1.06
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.06
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
4:1:288:ASP:CG	4:3:203:THR:CG2	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:769:ALA:C	1:D:774:LEU:HB2	1.74	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:J:557:GLU:HB3	4:Y:46:GLY:C	1.75	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:G:795:ARG:CA	3:I:118:MET:HE1	1.86	1.05
1:J:553:MLY:HE2	4:Y:45:VAL:HB	1.09	1.05
2:N:111:SER:CB	2:N:148:VAL:C	1.92	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: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:783:LEU:O	1:S:786:ILE:HG13	1.54	1.05
1:S:805:ALA:C	1:S:807:VAL:N	2.09	1.05
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:553:MLY:CB	4:2:46:GLY:CA	2.33	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:731:ALA:C	3:U:93:VAL:HG12	1.75	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:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	1.05
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	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:728:ASN:CG	3:I:114:LEU:HD21	1.66	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:538:GLU:OE2	4:W:355:MET:HE1	1.52	1.05
1:J:638:GLY:HA2	4:W:341:ILE:O	1.57	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
1:A:795:ARG:CB	3:C:35:ARG:CZ	2.32	1.05
1:D:530:MET:HE2	4:9:354:GLN:CG	1.85	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
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	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:542:PHE:CG	4:2:143:TYR:HE1	1.73	1.05
4:2:112:PRO:HB3	4:3:196:ARG:C	1.76	1.05
4:2:112:PRO:CB	4:3:196:ARG:C	2.25	1.05
4:4:324:THR:CG2	4:6:244:ASP:HA	1.86	1.05
2:H:114:LYS:HA	2:H:146:GLY:O	0.89	1.04
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	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:M:641:LYS:HD2	1:M:647:GLN:CD	1.70	1.04
1:S:635:GLY:HA3	4:2:341:ILE:HD13	1.37	1.04
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.36	1.04
2:K:121:LEU:C	2:K:128:PHE:HB3	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:93:MET:HE2	1:A:715:VAL:CA	1.87	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: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:641:LYS:HE3	1:M:647:GLN:CD	1.77	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: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:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.04
1:G:530:MET:CA	4:V:354:GLN:HG3	1.88	1.04
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	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:639:GLY:HA3	4:Z:344:SER:C	1.78	1.04
1:M:641:LYS:HB2	1:M:647:GLN:NE2	1.68	1.04
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:H:121:LEU:C	2:H:128:PHE:HB3	1.72	1.04
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.23	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:639:GLY:HA3	4:2:344:SER:C	1.78	1.03
1:S:641:LYS:HE3	4:2:348:SER:O	1.55	1.03
1:S:770:GLY:C	1:S:771:LEU:O	1.96	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
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	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:J:557:GLU:CB	4:Y:46:GLY:C	2.26	1.03
1:M:84:MLY:HH11	1:M:715:VAL:HG11	1.35	1.03
1:M:529:PRO:C	4:Z:354:GLN:HB3	1.77	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: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:538:GLU:OE2	4:V:355:MET:HE1	1.55	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
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	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:639:GLY:HA3	4:W:344:SER:C	1.78	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:M:795:ARG:CG	3:O:118:MET:HE1	1.86	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
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:529:PRO:C	4:W:354:GLN:HB3	1.77	1.03
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.42	1.03
1:M:553:MLY:HG2	4:2:44:MET:O	1.59	1.03
1:M:557:GLU:N	4:2:48:GLY:CA	2.12	1.03
1:M:642:LYS:HG3	4:Z:23:GLY:H	0.86	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
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.57	1.03
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:G:639:GLY:N	4:V:345:ILE:N	1.94	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:806:MET:C	1:M:807:VAL:N	2.12	1.02
1:S:791:GLN:NE2	3:U:115:GLY:HA3	1.72	1.02
1:S:817:GLN:CD	2:T:127:ARG:HD2	1.78	1.02
2:T:144:VAL:HG11	2:T:153:ILE:HG12	1.38	1.02
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
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.80	1.02
1:A:95:THR:HG1	1:A:769:ALA:CA	1.69	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:639:GLY:HA3	4:9:344:SER:C	1.78	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
1:J:798:LEU:HD11	3:L:126:LEU:HD12	1.38	1.02
2:N:121:LEU:C	2:N:128:PHE:HB3	1.72	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
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:639:GLY:HA3	4:8:344:SER:C	1.78	1.02
1:D:836:PHE:CZ	2:E:159:HIS:C	2.32	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: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
1:M:56:GLU:HB2	1:M:59:MLY:HB3	1.40	1.02
1:M:538:GLU:OE2	4:Z:355:MET:HE1	1.55	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: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
4:1:246:GLN:C	4:Y:324:THR:HG21	1.70	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:149:GLN:CD	1:A:716:LEU:HD23	1.77	1.02
2:B:121:LEU:HG	2:B:128:PHE:CA	1.59	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:144:VAL:HG11	2:B:153:ILE:HG12	1.38	1.02
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	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:S:641:LYS:HE3	1:S:647:GLN:CD	1.77	1.02
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.02
4:W:324:THR:HG21	4:Y:246:GLN:C	1.70	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:529:PRO:C	4:9:354:GLN:HB3	1.78	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: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:786:ILE:C	1:S:787:ILE:N	2.14	1.02
1:S:791:GLN:NE2	3:U:114:LEU:O	1.93	1.02
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.02
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.58	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:534:SER:O	4:V:351:THR:HG23	1.12	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:J:795:ARG:CZ	3:L:116:GLU:CD	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:753:VAL:CG1	1:M:775:LEU:HD11	1.90	1.01
1:M:795:ARG:HG2	3:O:118:MET:HE3	1.14	1.01
1:M:795:ARG:NE	3:O:118:MET:HE1	1.75	1.01
2:N:149:ASP:OD2	2:N:150:TYR:N	1.91	1.01
1:S:529:PRO:C	4:2:354:GLN:HB3	1.77	1.01
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
1:A:795:ARG:NH2	3:C:116:GLU:OE2	1.81	1.01
2:B:150:TYR:O	2:B:151:LYS:CB	2.07	1.01
1:D:534:SER:O	4:9:351:THR:HA	1.59	1.01
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	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
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:534:SER:C	4:Z:351:THR:HA	1.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	1.01
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	1.01
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.01
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:793:ARG:NH2	3:C:147:MET:CE	2.23	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:534:SER:O	4:W:351:THR:HA	1.60	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:752:ASP:N	3:U:86:ASP:OD1	1.94	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: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
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.22	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
1:M:819:ASN:CG	2:N:92:ASP:CB	2.28	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:534:SER:C	4:2:351:THR:HA	1.81	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:797:PHE:CZ	3:U:146:ILE:HA	1.96	1.00
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.00
1:A:95:THR:HG1	1:A:769:ALA:HA	0.86	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
1:J:639:GLY:N	4:W:345:ILE:N	1.94	1.00
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.00
1:M:530:MET:HE2	4:Z:354:GLN:CG	1.91	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
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: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
1:G:84:MLY:HD3	1:G:723:ARG:HD2	1.40	1.00
1:J:641:LYS:CG	4:W:348:SER:HB2	1.87	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
4:4:322:PRO:HB3	4:6:244:ASP:CG	1.80	1.00
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.23	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
1:J:795:ARG:NH2	3:L:116:GLU:CD	2.14	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: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:831:TRP:CZ2	2:H:47:LEU:HD21	1.97	0.99
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
1:M:35:MLY:HE2	1:M:777:GLU:CD	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.39	0.99
1:A:534:SER:C	4:8:351:THR:HA	1.81	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:529:PRO:C	4:V:354:GLN:HB3	1.79	0.99
1:G:728:ASN:ND2	3:I:114:LEU:CD2	2.21	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
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
1:G:576:GLU:CG	1:G:577:ALA:H	1.75	0.99
1:G:838:ILE:HD11	2:H:54:MET:HE3	1.26	0.99
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	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:795:ARG:HB3	3:F:35:ARG:HH12	1.20	0.99
1:G:534:SER:C	4:V:351:THR:HA	1.82	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
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:A:793:ARG:NH2	3:C:147:MET:HE2	1.78	0.99
1:G:754:ASP:HA	1:G:779:ARG:HD2	1.01	0.99
1:J:534:SER:C	4:W:351:THR:HA	1.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:836:PHE:CZ	2:B:160:GLY:N	2.31	0.99
1:D:534:SER:C	4:9:351:THR:HA	1.81	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
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.99
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	0.99
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	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:S:508:ILE:HD11	1:S:759:ALA:HB2	1.01	0.99
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.61	0.98
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:D:767:PHE:C	1:D:771:LEU:HD11	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:112:ILE:O	2:B:147:ASN:C	2.01	0.98
1:G:728:ASN:OD1	3:I:114:LEU:CG	2.10	0.98
2:N:117:LEU:CB	2:N:147:ASN:CG	2.32	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:M:530:MET:CE	4:Z:354:GLN:CG	2.40	0.98
1:M:795:ARG:HG3	3:O:118:MET:CE	1.92	0.98
1:S:612:GLN:HE22	1:S:627:GLY:CA	1.76	0.98
2:B:117:LEU:CB	2:B:147:ASN:CG	2.32	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
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	0.98
1:M:84:MLY:HH21	1:M:719:ASP:C	1.84	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
2:N:112:ILE:O	2:N:147:ASN:C	2.02	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
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	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
1:M:795:ARG:HE	3:O:118:MET:HE1	1.26	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
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	0.98
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.46	0.98
2:N:150:TYR:C	2:N:151:LYS:HG3	1.83	0.98
2:T:139:ALA:O	2:T:141:PRO:HD3	1.62	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:H:112:ILE:O	2:H:147:ASN:C	2.01	0.98
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.47	0.98
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
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	0.98
1:A:505:MLY:CB	1:A:762:HIS:N	2.26	0.97
2:B:150:TYR:C	2:B:151:LYS:HG3	1.83	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: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:S:649:VAL:CG1	1:S:649:VAL:HG22	1.92	0.97
1:S:819:ASN:CG	2:T:92:ASP:CB	2.32	0.97
3:U:46:ILE:O	3:U:50:LEU:HG	1.64	0.97
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.97
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.97
1:M:817:GLN:HG2	2:N:127:ARG:HB2	1.45	0.97
1:M:838:ILE:HD11	2:N:54:MET:HE3	1.43	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:502:GLU:C	1:A:761:GLY:HA3	1.84	0.97
1:A:534:SER:O	4:8:351:THR:HA	1.60	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
1:A:800:ARG:HH22	3:C:40:ASN:HD21	1.10	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:M:542:PHE:CG	4:Z:143:TYR:CE1	2.53	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	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:S:93:MET:HE2	1:S:764:MLY:CD	1.93	0.97
2:T:112:ILE:O	2:T:147:ASN:C	2.01	0.97
1:A:707:CYS:CA	1:A:714:ARG:CZ	2.39	0.97
1:D:726:VAL:O	1:D:785:GLU:HG2	1.64	0.97
2:E:112:ILE:O	2:E:147:ASN:C	2.01	0.97
1:M:831:TRP:CH2	2:N:47:LEU:HD22	1.97	0.97
1:S:93:MET:HE3	1:S:716:LEU:HD12	1.46	0.97
2:T:141:PRO:HB2	2:T:142:PRO:HD2	1.44	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:CB	2:H:147:ASN:CG	2.32	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:S:707:CYS:C	1:S:714:ARG:NH2	2.17	0.97
1:S:770:GLY:C	1:S:771:LEU:CA	2.33	0.97
2:T:117:LEU:CB	2:T:147:ASN:CG	2.32	0.97
4:1:287:ILE:CG2	4:3:204:ALA:H	1.78	0.97
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	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
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	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:567:LYS:HZ1	4:Y:92:ASN:HD22	1.07	0.96
1:J:792:ALA:CB	3:L:42:THR:HG23	1.70	0.96
2:K:112:ILE:O	2:K:147:ASN:C	2.02	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:S:795:ARG:HH21	3:U:116:GLU:CA	1.78	0.96
1:A:798:LEU:CD1	3:C:126:LEU:HD11	1.94	0.96
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.77	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: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
2:B:144:VAL:HG13	2:B:153:ILE:HD11	1.22	0.96
2:B:150:TYR:O	2:B:151:LYS:HG3	1.65	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.96
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	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:727:LEU:HD21	1:S:783:LEU:HB2	1.44	0.96
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.44	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:A:149:GLN:CD	1:A:718:ALA:HB3	1.84	0.96
1:G:93:MET:HA	1:G:714:ARG:H	1.29	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:537:GLU:C	4:2:349:LEU:CD1	2.20	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:J:721:LYS:CA	1:J:736:GLN:CD	2.34	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
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:J:84:MLY:CH2	1:J:719:ASP:C	2.34	0.96
1:J:710:GLY:C	1:J:772:LEU:CD2	2.35	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
2:T:150:TYR:C	2:T:151:LYS:HG3	1.83	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:508:ILE:HD13	1:D:766:PHE:CZ	2.00	0.96
1:G:728:ASN:CG	3:I:114:LEU:HD23	1.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
2:N:150:TYR:O	2:N:151:LYS:HG3	1.65	0.95
1:S:543:PRO:CG	4:2:143:TYR:O	2.14	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:A:735:GLY:C	1:A:743:ALA:CA	2.34	0.95
1:A:817:GLN:CD	2:B:127:ARG:HG2	1.85	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
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.87	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
2:H:117:LEU:HD12	2:H:147:ASN:HB3	1.41	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:CG2	2.44	0.95
1:S:735:GLY:C	1:S:743:ALA:CA	2.35	0.95
1:S:797:PHE:CE2	3:U:146:ILE:CD1	2.48	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: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:537:GLU:C	4:Z:349:LEU:CD1	2.20	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
1:S:721:LYS:CA	1:S:736:GLN:CD	2.34	0.95
4:1:287:ILE:HD13	4:3:203:THR:CB	1.96	0.95
1:A:502:GLU:HG3	1:A:761:GLY:HA3	1.33	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:M:642:LYS:HD2	4:Z:24:ASP:O	1.64	0.95
1:S:746:LYS:HZ1	3:U:96:LYS:HA	1.26	0.95
1:A:831:TRP:HZ2	2:B:47:LEU:HA	1.22	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:537:GLU:C	4:9:349:LEU:CD1	2.20	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:735:GLY:C	1:J:743:ALA:CA	2.34	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
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	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
4:X:291:LYS:HE2	4:Z:243:PRO:C	1.85	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:791:GLN:CD	3:L:116:GLU:HG3	1.87	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: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
4:X:291:LYS:CE	4:Z:243:PRO:C	2.34	0.95
1:A:95:THR:OG1	1:A:769:ALA:C	2.03	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
1:G:735:GLY:C	1:G:743:ALA:CA	2.34	0.95
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: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:M:721:LYS:CA	1:M:736:GLN:CD	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:642:LYS:HD2	4:2:24:ASP:O	1.65	0.95
1:S:786:ILE:C	1:S:789:ALA:H	1.69	0.95
1:S:803:TYR:O	1:S:807:VAL:N	2.00	0.95
4:4:324:THR:OG1	4:6:244:ASP:N	1.96	0.95
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.95
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	0.94
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	0.94
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.94
1:G:754:ASP:N	1:G:776:GLU:OE1	1.85	0.94
1:S:786:ILE:HB	1:S:787:ILE:N	1.82	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: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:642:LYS:HG2	4:2:21:PHE:O	1.65	0.94
4:1:244:ASP:OD2	4:Y:325:MET:HE2	1.67	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
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	0.94
2:B:117:LEU:HD13	2:B:147:ASN:OD1	1.64	0.94
1:D:735:GLY:C	1:D:743:ALA:CA	2.35	0.94
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.94
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	0.94
1:J:710:GLY:N	1:J:772:LEU:HD22	1.81	0.94
1:M:735:GLY:C	1:M:743:ALA:CA	2.35	0.94
1:M:819:ASN:OD1	2:N:92:ASP:HB2	1.67	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
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:A:93:MET:HE2	1:A:715:VAL:HA	0.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:162:ASP:O	2:K:21:GLU:CB	2.15	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:A:641:LYS:CD	4:8:348:SER:HB2	1.92	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:756:THR:CG2	1:J:776:GLU:HA	1.97	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:A:97:LEU:HD23	1:A:712:PRO:HB3	1.49	0.94
1:A:793:ARG:HH21	3:C:147:MET:HE3	1.31	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:D:557:GLU:N	4:W:48:GLY:CA	2.12	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
1:M:817:GLN:CD	2:N:127:ARG:HD2	1.87	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: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:553:MLY:CE	4:X:45:VAL:HB	1.91	0.94
1:G:838:ILE:CD1	2:H:54:MET:CE	2.29	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: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
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:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:G:795:ARG:NE	3:I:116:GLU:CB	2.27	0.93
1:S:93:MET:CE	1:S:764:MLY:CD	2.45	0.93
1:S:795:ARG:CG	3:U:118:MET:HE2	1.95	0.93
1:S:838:ILE:CD1	2:T:54:MET:CE	2.44	0.93
4:X:287:ILE:HG12	4:Z:201:VAL:H	1.29	0.93
4:X:287:ILE:C	4:Z:205:GLU:CD	2.27	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:567:LYS:HZ2	4:X:92:ASN:HD22	1.11	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
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
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:S:750:GLY:CA	3:U:89:GLU:HB3	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:538:GLU:OE2	4:9:355:MET:HE3	1.66	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:J:739:ASP:HB3	1:J:742:LYS:CB	1.99	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
4:1:203:THR:HG22	4:Y:286:ASP:CG	1.87	0.93
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.93
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.98	0.93
1:G:757:GLN:HG2	1:G:776:GLU:CD	1.88	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:M:799:MET:SD	3:O:32:ASP:CG	2.47	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:1:244:ASP:CG	4:Y:325:MET:CE	2.37	0.93
4:4:322:PRO:HB2	4:6:244:ASP:HB3	1.49	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:M:549:SER:C	4:2:46:GLY:HA3	1.90	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
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
1:J:838:ILE:CD1	2:K:54:MET:CE	2.44	0.92
1:S:804:ARG:C	1:S:807:VAL:HB	1.88	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
1:A:800:ARG:CD	3:C:149:VAL:C	2.37	0.92
1:D:549:SER:C	4:W:46:GLY:HA3	1.90	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
1:J:530:MET:CA	4:W:354:GLN:CG	2.44	0.92
1:J:537:GLU:C	4:W:349:LEU:CD1	2.20	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:D:820:VAL:HG11	2:E:136:MET:CE	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:537:GLU:C	4:V:349:LEU:CD1	2.21	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: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
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.69	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:V:325:MET:CE	4:X:244:ASP:CG	2.37	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:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.92
1:J:505:MLY:HD2	1:J:762:HIS:HE1	1.17	0.92
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.92
1:M:642:LYS:CB	4:Z:21:PHE:O	2.17	0.92
1:M:834:LEU:CD1	2:N:51:PHE:HE1	1.82	0.92
1:S:638:GLY:HA3	4:2:341:ILE:O	1.70	0.92
1:S:838:ILE:HD11	2:T:54:MET:HE3	1.48	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:649:VAL:CG1	1:D:649:VAL:C	2.38	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:649:VAL:CG1	1:J:649:VAL:C	2.38	0.92
1:M:213:LYS:HA	1:M:220:ASP:CG	1.90	0.92
1:M:538:GLU:N	4:Z:351:THR:H	1.67	0.92
1:S:735:GLY:C	1:S:743:ALA:HA	1.90	0.92
4:I: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:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.91
1:M:648:THR:HG21	1:M:651:ALA:HB2	1.50	0.91
1:S:213:LYS:HA	1:S:220:ASP:CG	1.90	0.91
1:S:739:ASP:HB3	1:S:742:LYS:CB	1.98	0.91
4:I:287:ILE:HG23	4:3:202:THR:OG1	1.68	0.91
1:A:549:SER:C	4:V:46:GLY:HA3	1.89	0.91
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.91
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	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:795:ARG:HG3	3:O:118:MET:HE3	1.46	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.91
1:D:836:PHE:CE2	2:E:160:GLY:N	2.39	0.91
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	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
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:A:735:GLY:C	1:A:743:ALA:HA	1.91	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: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:A:537:GLU:C	4:8:349:LEU:CD1	2.20	0.91
1:D:799:MET:SD	3:F:32:ASP:HA	2.11	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
1:M:735:GLY:C	1:M:743:ALA:HA	1.91	0.91
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:W:324:THR:CG2	4:Y:247:VAL:H	1.84	0.91
1:D:813:ILE:CG2	2:E:128:PHE:HZ	1.60	0.91
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	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:M:649:VAL:CG1	1:M:649:VAL:C	2.38	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:735:GLY:C	1:J:743:ALA:HA	1.90	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:630:ALA:O	4:2:25:ASP:CG	2.09	0.91
1:S:752:ASP:CB	3:U:86:ASP:OD2	2.19	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:649:VAL:CG1	1:S:649:VAL:C	2.38	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:A:502:GLU:CD	1:A:764:MLY:O	2.09	0.91
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.91
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.49	0.91
1:J:552:ASN:O	4:Y:47:MET:HE1	1.69	0.91
1:J:768:MLY:CH1	1:J:772:LEU:HD12	1.95	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
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
4:2:112:PRO:CG	4:3:196:ARG:C	2.40	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:A:791:GLN:CD	3:C:116:GLU:H	1.74	0.90
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.90
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	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:M:649:VAL:CB	1:M:649:VAL:CG2	2.49	0.90
1:S:92:ALA:C	1:S:714:ARG:HG3	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	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: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:149:ASP:CG	2:B:150:TYR:H	1.73	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:M:819:ASN:OD1	2:N:92:ASP:CB	2.18	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:567:LYS:HZ1	4:X:92:ASN:HD22	1.11	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:G:838:ILE:HD12	2:H:54:MET:HE3	1.49	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
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:S:709:LYS:C	1:S:710:GLY:HA3	1.92	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:838:ILE:HD11	2:H:54:MET:HE1	1.51	0.90
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.59	0.90
1:M:630:ALA:O	4:Z:25:ASP:CG	2.09	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:D:795:ARG:CB	3:F:35:ARG:HH12	1.76	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: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
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
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.90
1:G:752:ASP:CG	1:G:780:ASP:O	2.08	0.90
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
1:J:820:VAL:CG1	2:K:136:MET:CE	2.48	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:410:ASN:OD1	4:2:334:GLU:C	2.10	0.90
1:S:805:ALA:O	1:S:809:ARG:HB2	1.72	0.90
1:A:410:ASN:OD1	4:8:334:GLU:C	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	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: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: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: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:J:630:ALA:O	4:W:25:ASP:CG	2.09	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
1:S:753:VAL:HG22	1:S:779:ARG:HH22	1.34	0.89
1:S:791:GLN:CD	3:U:116:GLU:N	2.17	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:538:GLU:OE2	4:V:355:MET:HE3	1.72	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:410:ASN:OD1	4:Z:334:GLU:C	2.10	0.89
1:S:92:ALA:O	1:S:714:ARG:HG3	0.72	0.89
1:S:546:THR:OG1	4:4:46:GLY:C	2.09	0.89
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.53	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
1:J:567:LYS:HZ2	4:Y:92:ASN:HD22	1.14	0.89
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:793:ARG:HD3	3:U:40:ASN:ND2	1.87	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:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.89
1:J:710:GLY:C	1:J:772:LEU:HD22	1.90	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
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
2:N:149:ASP:CG	2:N:150:TYR:H	1.73	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:630:ALA:O	4:8:25:ASP:CG	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.19	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
2:E:149:ASP:CG	2:E:150:TYR:H	1.72	0.89
1:J:792:ALA:HB2	3:L:42:THR:HG23	0.90	0.89
1:J:795:ARG:NE	3:L:116:GLU:CD	2.25	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
1:M:538:GLU:OE2	4:Z:355:MET:HE3	1.72	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
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: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:709:LYS:C	1:S:710:GLY:CA	2.41	0.88
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.03	0.88
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.88
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:756:THR:HG21	1:J:776:GLU:C	1.92	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:J:541:MET:CB	4:W:143:TYR:OH	2.20	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
2:T:121:LEU:CA	2:T:128:PHE:CB	2.46	0.88
4:1:322:PRO:CB	4:3:244:ASP:HB3	2.02	0.88
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.88
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	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
2:T:149:ASP:CG	2:T:150:TYR:H	1.73	0.88
4:1:203:THR:HG22	4:Y:286:ASP:OD1	1.74	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:552:ASN:O	4:X:47:MET:HE1	1.72	0.88
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.88
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.88
1:M:541:MET:CB	4:Z:143:TYR:OH	2.20	0.88
4:X:291:LYS:CD	4:Z:243:PRO:C	2.41	0.88
1:D:641:LYS:HD2	4:9:348:SER:CB	2.02	0.88
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	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
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	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:646:PHE:CE2	1:G:652:LEU:CD1	2.58	0.87
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.71	0.87
1:J:641:LYS:HD2	4:W:348:SER:CB	2.03	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:731:ALA:CB	3:U:93:VAL:C	2.43	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:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.87
1:A:817:GLN:CD	2:B:127:ARG:CG	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:646:PHE:CE2	1:M:652:LEU:CD1	2.58	0.87
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:J:820:VAL:CG1	2:K:136:MET:HE3	2.05	0.87
1:M:795:ARG:NH2	3:O:116:GLU:CG	2.37	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:793:ARG:NH2	3:F:147:MET:CE	2.36	0.87
1:G:791:GLN:CD	3:I:116:GLU:H	1.77	0.87
1:J:553:MLY:NZ	4:Y:45:VAL:HG11	1.88	0.87
1:M:28:GLN:C	1:M:723:ARG:HH22	1.77	0.87
1:M:817:GLN:HG2	2:N:127:ARG:CD	2.03	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
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.87
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.87
1:D:708:ARG:C	1:D:710:GLY:N	2.28	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: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: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
4:W:286:ASP:OD1	4:Y:203:THR:HG22	1.74	0.87
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.87
1:D:800:ARG:NH2	3:F:40:ASN:CG	2.28	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:553:MLY:HG3	4:Y:45:VAL:C	1.95	0.87
1:J:636:LYS:H	4:W:334:GLU:CD	1.78	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
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.87
4:X:288:ASP:N	4:Z:202:THR:OG1	2.03	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: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:636:LYS:H	4:V:334:GLU:CD	1.78	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
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:819:ASN:HA	2:H:90:GLY:C	1.95	0.87
2:K:121:LEU:CA	2:K:128:PHE:CB	2.46	0.87
1:S:546:THR:CG2	4:4:46:GLY:O	2.23	0.87
1:S:795:ARG:HG3	3:U:118:MET:CE	2.03	0.87
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	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
1:M:636:LYS:H	4:Z:334:GLU:CD	1.78	0.86
1:S:546:THR:OG1	4:4:46:GLY:CA	2.21	0.86
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	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
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:93:MET:HE1	1:J:764:MLY:HD2	1.57	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
1:J:756:THR:CG2	1:J:776:GLU:CD	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.86
1:A:538:GLU:OE2	4:8:355:MET:HE3	1.74	0.86
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	0.86
1:D:636:LYS:H	4:9:334:GLU:CD	1.78	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:636:LYS:H	4:2:334:GLU:CD	1.78	0.86
4:2:244:ASP:CG	4:Z:322:PRO:HB2	1.94	0.86
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	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
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:552:ASN:OD1	4:4:49:GLN:O	1.70	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:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.86
1:J:538:GLU:OE2	4:W:355:MET:HE3	1.75	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: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:A:834:LEU:CD2	2:B:54:MET:CE	2.49	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:J:817:GLN:CD	2:K:127:ARG:CD	2.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.86
2:B:117:LEU:CG	2:B:147:ASN:CG	2.44	0.86
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.58	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:646:PHE:CD2	1:J:652:LEU:HD11	2.10	0.86
1:M:35:MLY:HE2	1:M:777:GLU:OE2	1.75	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:820:VAL:HG11	2:T:136:MET:HE3	1.57	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
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.56	0.85
2:E:117:LEU:CG	2:E:147:ASN:CG	2.44	0.85
1:G:149:GLN:CD	1:G:763:THR:HG23	1.96	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:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.85
1:J:819:ASN:CG	2:K:90:GLY:O	2.14	0.85
1:J:838:ILE:CD1	2:K:54:MET:HE1	2.05	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:117:LEU:CG	2:N:147:ASN:CG	2.44	0.85
4:1:288:ASP:N	4:3:203:THR:HG22	1.90	0.85
1:D:530:MET:HG2	4:9:354:GLN:CG	2.05	0.85
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	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:84:MLY:CH2	1:G:719:ASP:C	2.45	0.85
1:G:797:PHE:CE1	3:I:146:ILE:HG23	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	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: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
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
4:1:244:ASP:CG	4:Y:325:MET:HE1	1.97	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:D:834:LEU:HD21	2:E:54:MET:CE	2.05	0.85
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	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:M:819:ASN:OD1	2:N:91:ALA:C	2.14	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:567:LYS:HZ3	4:X:92:ASN:ND2	1.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	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:M:410:ASN:OD1	4:Z:334:GLU:CA	2.24	0.85
1:M:530:MET:HE1	4:Z:355:MET:SD	2.17	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
2:T:117:LEU:CG	2:T:147:ASN:CG	2.44	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: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:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.85
1:D:791:GLN:NE2	3:F:115:GLY:C	2.15	0.85
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:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.85
1:M:640:LYS:C	4:Z:23:GLY:O	2.15	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:M:735:GLY:C	1:M:743:ALA:HB1	1.84	0.85
1:S:548:THR:O	4:4:49:GLN:N	2.06	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:630:ALA:C	4:8:25:ASP:OD2	2.15	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: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:S:107:MLY:HB3	1:S:686:MET:HE2	1.59	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:640:LYS:C	4:8:23:GLY:O	2.15	0.84
1:A:800:ARG:NH2	3:C:40:ASN:HD21	1.75	0.84
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.84
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:819:ASN:CG	2:T:90:GLY:O	2.14	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:A:502:GLU:HA	1:A:761:GLY:C	1.96	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:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	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
2:H:117:LEU:CG	2:H:147:ASN:CG	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.75	0.84
1:G:95:THR:CA	1:G:713:SER:HB3	2.07	0.84
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.60	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
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:640:LYS:C	4:9:23:GLY:O	2.15	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:640:LYS:C	4:W:23:GLY:O	2.15	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
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
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: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:630:ALA:C	4:2:25:ASP:OD2	2.15	0.84
1:S:640:LYS:C	4:2:23:GLY:O	2.15	0.84
1:S:732:ILE:HG21	1:S:747:LEU:HD13	0.91	0.84
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.84
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.83
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.58	0.83
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.46	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
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:G:819:ASN:CG	2:H:90:GLY:O	2.17	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
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:649:VAL:HG12	1:J:649:VAL:C	1.98	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:D:538:GLU:CD	4:9:355:MET:HE3	1.98	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:G:820:VAL:HG11	2:H:136:MET:HE3	1.60	0.83
1:J:730:SER:O	1:J:734:GLU:HG3	1.78	0.83
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	2.14	0.83
1:M:630:ALA:C	4:Z:25:ASP:OD2	2.15	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: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:640:LYS:C	4:V:23:GLY:O	2.16	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:J:838:ILE:CD1	2:K:54:MET:HE3	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:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.83
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:202:SER:HA	1:S:207:LYS:HE2	0.85	0.83
1:S:502:GLU:CD	1:S:761:GLY:CA	2.47	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:M:649:VAL:HG12	1:M:649:VAL:C	1.98	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:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.83
1:M:819:ASN:HA	2:N:90:GLY:C	1.98	0.83
2:N:141:PRO:CB	2:N:142:PRO:CD	2.56	0.83
1:S:641:LYS:HD2	4:2:348:SER:CA	2.09	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:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.82
1:S:649:VAL:HG12	1:S:649:VAL:C	1.98	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
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.81	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:M:820:VAL:HG11	2:N:136:MET:HE3	1.60	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:107:MLY:HB3	1:A:686:MET:HE2	1.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.69	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:A:795:ARG:HG2	3:C:118:MET:CE	2.09	0.82
2:E:111:SER:OG	2:E:148:VAL:C	2.15	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
1:M:549:SER:O	4:2:46:GLY:C	2.18	0.82
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:292:MET:HE3	1:A:309:PRO:HA	1.60	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: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
1:S:639:GLY:CA	4:2:344:SER:C	2.48	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:D:549:SER:O	4:W:46:GLY:C	2.18	0.82
1:G:752:ASP:C	1:G:780:ASP:OD1	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:J:553:MLY:HH12	4:Y:45:VAL:HG11	1.59	0.82
1:M:795:ARG:CD	3:O:118:MET:HE1	2.10	0.82
1:S:793:ARG:HH11	3:U:40:ASN:HD22	0.85	0.82
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.82
2:E:121:LEU:CG	2:E:128:PHE:CA	2.49	0.82
1:G:557:GLU:HB2	4:X:46:GLY:C	2.00	0.82
1:G:639:GLY:CA	4:V:344:SER:C	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: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
2:B:111:SER:OG	2:B:148:VAL:C	2.15	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:639:GLY:CA	4:W:344:SER:C	2.48	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
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.81
1:A:639:GLY:CA	4:8:344:SER:C	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:791:GLN:HE22	3:F:116:GLU:N	1.63	0.81
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.62	0.81
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.81
1:G:795:ARG:CA	3:I:118:MET:CE	2.58	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
1:M:721:LYS:CA	1:M:736:GLN:NE2	2.43	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: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
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.81
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: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:786:ILE:C	1:S:787:ILE:C	2.39	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:639:GLY:CA	4:Z:344:SER:C	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:734:GLU:O	1:A:738:MET:CG	2.28	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: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:93:MET:HE2	1:S:764:MLY:HB3	1.62	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:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.81
1:A:795:ARG:HG2	3:C:118:MET:HE3	1.61	0.81
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:93:MET:HG2	1:S:715:VAL:CA	2.05	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:793:ARG:HH21	3:F:147:MET:HE1	1.46	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:D:709:LYS:C	1:D:710:GLY:HA2	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:9:290: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:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.81
1:M:538:GLU:CA	4:Z:351:THR:H	1.93	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
1:S:795:ARG:HG3	3:U:118:MET:HE1	1.55	0.81
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	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:639:GLY:CA	4:9:344:SER:C	2.48	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: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:93:MET:HE2	1:S:764:MLY:CG	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:502:GLU:CD	1:A:764:MLY:N	2.34	0.80
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.80
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	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:793:ARG:NH1	3:L:40:ASN:HD22	1.79	0.80
2:K:111:SER:OG	2:K:148:VAL:C	2.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:530:MET:HE1	4:9:355:MET:SD	2.21	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
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
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:529:PRO:C	4:W:354:GLN:CB	2.48	0.80
1:J:557:GLU:HB2	4:Y:46:GLY:C	2.00	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	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
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.80
1:G:795:ARG:HB2	3:I:35:ARG:HH12	1.44	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:M:291:ILE:HA	1:M:331:LEU:HD11	1.64	0.80
1:M:550:PHE:N	4:2:46:GLY:HA3	1.97	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:735:GLY:C	1:S:743:ALA:HB1	1.84	0.80
1:S:792:ALA:HB3	3:U:42:THR:CG2	1.96	0.80
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:803:TYR:HD2	3:O:17:PHE:CZ	1.99	0.80
1:S:709:LYS:C	1:S:710:GLY:N	2.35	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:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.80
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
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:538:GLU:HG3	4:V:351:THR:C	2.02	0.79
1:G:820:VAL:HG11	2:H:136:MET:CE	2.11	0.79
1:M:735:GLY:C	1:M:743:ALA:HB2	1.82	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
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	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:A:793:ARG:NH2	3:C:147:MET:HE3	1.92	0.79
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.79
1:G:817:GLN:CD	2:H:127:ARG:CD	2.50	0.79
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	2.00	0.79
1:J:710:GLY:C	1:J:772:LEU:HD23	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:121:LEU:CG	2:N:128:PHE:CA	2.48	0.79
1:S:530:MET:HE1	4:2:355:MET:SD	2.23	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
3:U:50:LEU:C	3:U:53:PRO:HD2	2.03	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
4:2:204:ALA:N	4:Z:287:ILE:HB	1.98	0.79
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
1:J:530:MET:HE1	4:W:355:MET:SD	2.23	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
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: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:G:757:GLN:CG	1:G:776:GLU:CD	2.45	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
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:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.79
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.65	0.79
1:G:641:LYS:CE	1:G:647:GLN:CG	2.61	0.79
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.79
1:J:819:ASN:CG	2:K:92:ASP:CB	2.48	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:A:501:GLU:HG2	1:A:762:HIS:HD1	0.71	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	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:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	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
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
4:3:287:ILE:HG13	4:5:202:THR:CB	2.12	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: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
4:X:291:LYS:HE2	4:Z:243:PRO:O	1.82	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:820:VAL:CG1	2:K:136:MET:HE1	2.12	0.78
1:M:409:GLY:N	1:M:636:LYS:CG	2.44	0.78
1:S:529:PRO:C	4:2:354:GLN:CB	2.49	0.78
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.78
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	0.78
1:G:754:ASP:CG	1:G:776:GLU:HA	2.03	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:J:538:GLU:HG3	4:W:351:THR:C	2.03	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
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.78
2:B:141:PRO:HB2	2:B:142:PRO:CD	2.12	0.78
1:D:769:ALA:C	1:D:774:LEU:CB	2.48	0.78
1:D:836:PHE:CE1	2:E:159:HIS:CA	2.66	0.78
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
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
1:D:836:PHE:CE2	2:E:160:GLY:C	2.57	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:M:530:MET:HE3	4:Z:354:GLN:HG2	1.65	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
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:D:649:VAL:HG12	1:D:649:VAL:C	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:538:GLU:HG3	4:Z:351:THR:C	2.03	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
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:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.78
1:J:756:THR:HG21	1:J:779:ARG:HB3	1.65	0.78
1:M:819:ASN:CG	2:N:90:GLY:O	2.22	0.78
3:O:50:LEU:C	3:O:53:PRO:HD2	2.03	0.78
1:S:537:GLU:HG3	4:2:350:SER:O	1.78	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
4:3:287:ILE:HG23	4:5:202:THR:HG1	1.47	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: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
2:B:117:LEU:HB2	2:B:147:ASN:HD21	1.47	0.78
1:D:481:ASN:HD22	1:D:481:ASN:N	1.82	0.78
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.78
1:D:799:MET:SD	3:F:32:ASP:CG	2.63	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: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: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: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:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:538:GLU:HG3	4:9:351:THR:C	2.03	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
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: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
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
2:K:150:TYR:C	2:K:151:LYS:CG	2.48	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
1:M:786:ILE:C	1:M:787:ILE:CA	2.51	0.77
1:S:538:GLU:OE2	4:2:355:MET:HE3	1.80	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: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: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:798:LEU:HD13	3:O:126:LEU:HD11	1.67	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:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.77
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	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:J:735:GLY:C	1:J:743:ALA:HB2	1.82	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:538:GLU:HG3	4:2:351:THR:C	2.03	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:A:817:GLN:NE2	2:B:127:ARG:CD	2.47	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
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:499:GLU:OE2	1:A:766:PHE:CE2	2.38	0.77
1:A:502:GLU:C	1:A:761:GLY:CA	2.53	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:166:MET:HE3	1:D:254:PHE:CD2	2.20	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
1:S:838:ILE:HD11	2:T:54:MET:HE1	1.61	0.77
3:C:50:LEU:C	3:C:53:PRO:HD2	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
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.72	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:E:163:ALA:C	2:K:21:GLU:HB3	2.05	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: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: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: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:M:838:ILE:CD1	2:N:54:MET:CE	2.51	0.77
1:S:635:GLY:HA3	4:2:341:ILE:CD1	2.14	0.77
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
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
4:3:287:ILE:HG21	4:5:202:THR:C	2.06	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:529:PRO:C	4:8:354:GLN:CB	2.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:752:ASP:CG	1:A:782:MLY:HD3	2.05	0.76
1:A:830:PRO:HG2	2:B:67:MET:CE	2.15	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
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
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	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:D:791:GLN:CD	3:F:116:GLU:N	2.25	0.76
1:M:107:MLY:HB3	1:M:686:MET:HE2	1.67	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: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
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:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.76
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:733:PRO:C	1:M:737:PHE:HD1	1.88	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: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
4:1:287:ILE:HG21	4:3:202:THR:C	2.06	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
1:G:817:GLN:NE2	2:H:127:ARG:HB2	2.00	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: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
1:S:838:ILE:CD1	2:T:54:MET:HE3	2.11	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:G:623:PHE:CG	1:G:623:PHE:CA	2.69	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:534:SER:O	4:Z:351:THR:N	2.19	0.76
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:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	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:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.75
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	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
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: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
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.75
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	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
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.75
1:D:732:ILE:CD1	1:D:782:MLY:HH21	2.16	0.75
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.75
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:819:ASN:HA	2:T:90:GLY:C	2.02	0.75
1:S:831:TRP:CZ2	2:T:47:LEU:CD2	2.68	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
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.75
1:M:538:GLU:CD	4:Z:355:MET:HE3	2.07	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
2:T:111:SER:OG	2:T:148:VAL:C	2.15	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:410:ASN:CG	4:V:334:GLU:CA	2.47	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
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.75
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	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:733:PRO:C	1:S:737:PHE:HD1	1.88	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:D:793:ARG:NH2	3:F:147:MET:HE1	2.01	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
1:S:819:ASN:OD1	2:T:92:ASP:CB	2.34	0.75
4:1:287:ILE:CG2	4:3:203:THR:N	2.49	0.75
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:556:ASP:CG	4:X:47:MET:HE2	1.50	0.75
1:G:757:GLN:CD	1:G:776:GLU:HG2	2.05	0.75
1:M:783:LEU:HA	1:M:786:ILE:CD1	2.13	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:556:ASP:HA	4:W:49:GLN:O	1.70	0.74
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.84	0.74
1:G:538:GLU:CD	4:V:355:MET:HE3	2.08	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
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
4:4:287:ILE:HG21	4:6:202:THR:C	2.06	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:534:SER:O	4:8:351:THR:N	2.18	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
4:6:253:GLU:HA	4:6:256:ARG:HG3	1.69	0.74
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
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:M:537:GLU:HG3	4:Z:350:SER:O	1.78	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:93:MET:CE	1:J:716:LEU:HD12	2.17	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:751:GLY:C	3:U:86:ASP:OD1	2.25	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:A:735:GLY:C	1:A:743:ALA:HB1	1.84	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:629:GLU:HA	1:M:643:GLY:C	2.05	0.74
1:M:739:ASP:CB	1:M:742:LYS:HB3	2.12	0.74
1:S:629:GLU:HA	1:S:643:GLY:C	2.05	0.74
1:S:795:ARG:NH1	3:U:43:ASN:CG	2.08	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:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.74
1:A:834:LEU:HD21	2:B:54:MET:HE3	1.67	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:556:ASP:CG	4:Y:47:MET:HE2	1.53	0.74
1:J:817:GLN:OE1	2:K:127:ARG:HD2	1.87	0.74
1:S:735:GLY:C	1:S:743:ALA:HB2	1.82	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:530:MET:HE1	4:8:355:MET:SD	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	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:410:ASN:CG	4:Z:334:GLU:CA	2.47	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:D:721:LYS:CB	1:D:736:GLN:CD	2.56	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:G:795:ARG:HA	3:I:118:MET:HE1	1.68	0.74
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.74
1:M:84:MLY:HH12	1:M:715:VAL:CG2	2.18	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
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:J:215:GLN:NE2	1:J:336:SER:O	2.20	0.74
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	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
4:1:322:PRO:HB2	4:3:244:ASP:HB3	1.70	0.74
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.73
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:529:PRO:C	4:9:354:GLN:CB	2.49	0.73
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	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:410:ASN:CG	4:W:334:GLU:CA	2.47	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: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
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: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: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: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:J:84:MLY:HH22	1:J:719:ASP:C	2.00	0.73
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.73
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.73
1:M:410:ASN:OD1	4:Z:335:ARG:N	2.21	0.73
1:M:831:TRP:HZ3	2:N:34:ILE:HD13	1.53	0.73
1:M:838:ILE:CD1	2:N:54:MET:HE1	2.09	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
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: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
1:S:546:THR:CB	4:4:47:MET:O	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:287:ILE:HB	4:5:203:THR:CG2	2.19	0.73
1:A:93:MET:HE1	1:A:715:VAL:CG1	2.16	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:J:733:PRO:C	1:J:737:PHE:CD1	2.62	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:217:THR:C	1:S:221:GLN:HE21	1.92	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: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:A:800:ARG:C	3:C:149:VAL:HG21	2.09	0.73
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.73
1:D:537:GLU:HG3	4:9:350:SER:O	1.79	0.73
1:D:542:PHE:HA	4:9:143:TYR:HE1	1.34	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:M:217:THR:C	1:M:221:GLN:HE21	1.92	0.73
1:M:838:ILE:CD1	2:N:54:MET:HE3	2.18	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:131:TRP:C	1:D:132:LEU:HD12	2.09	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
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:131:TRP:C	1:A:132:LEU:HD12	2.09	0.72
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:292:MET:HE3	1:D:309:PRO:HA	1.70	0.72
1:D:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.72
1:D:793:ARG:NH2	3:F:147:MET:HE3	2.04	0.72
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.72
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.72
2:H:130:PRO:O	2:H:132:GLU: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
2:N:111:SER:OG	2:N:148:VAL:C	2.15	0.72
1:S:131:TRP:C	1:S:132:LEU:HD12	2.10	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
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:93:MET:HE1	1:J:716:LEU:HD12	1.71	0.72
1:J:95:THR:CA	1:J:713:SER:OG	2.30	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:290:GLN:C	1:J:331:LEU:HD12	2.09	0.72
1:J:441:MET:O	1:J:445:ILE:HG13	1.88	0.72
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:290:GLN:C	1:D:331:LEU:HD12	2.09	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
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:131:TRP:C	1:J:132:LEU:HD12	2.09	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
1:S:797:PHE:CE1	3:U:146:ILE:C	2.62	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:800:ARG:HD3	3:F:149:VAL:C	2.10	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
4:2:166: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:817:GLN:CD	2:H:127:ARG:HB2	2.10	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
1:M:721:LYS:HG2	1:M:736:GLN:CD	1.85	0.72
3:O:24:LYS:CA	3:O:63:ILE:O	2.37	0.72
1:A:217:THR:C	1:A:221:GLN:HE21	1.93	0.72
1:A:290:GLN:C	1:A:331:LEU:HD12	2.10	0.72
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.70	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
2:B:150:TYR:C	2:B:151:LYS:CG	2.49	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
4:1:288:ASP:CG	4:3:203:THR:HG23	2.07	0.72
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.50	0.72
4:W:325:MET:HE1	4:Y:244:ASP:CG	2.09	0.72
4:X:324:THR:HB	4:Z:247:VAL:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:CD	4:8:355:MET:HE3	2.10	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
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:640:LYS:O	4:V:23:GLY:O	2.06	0.72
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	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
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.72
1:M:131:TRP:C	1:M:132:LEU:HD12	2.09	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:166:MET:HE1	1:J:254:PHE:HB2	1.71	0.72
1:J:795:ARG:C	3:L:35:ARG:NH2	2.42	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:530:MET:HE3	4:2:354:GLN:HG2	1.71	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:735:GLY:C	1:D:743:ALA:HB2	1.82	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:797:PHE:HE1	3:I:146:ILE:HA	1.55	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
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:A:97:LEU:HD23	1:A:712:PRO:CB	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:36:SER:O	1:M:52:ILE:HG12	1.89	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
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.90	0.71
1:A:817:GLN:CD	2:B:127:ARG:HE	1.89	0.71
1:D:641:LYS:HD2	4:9:348:SER:HA	1.73	0.71
1:D:800:ARG:CD	3:F:149:VAL:C	2.58	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
4:V:325:MET:HE1	4:X:244:ASP:CG	2.08	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:D:56:GLU:CB	1:D:59:MLY:HB3	2.20	0.71
1:D:166:MET:HE3	1:D:254:PHE:HD2	1.53	0.71
1:D:295:MLY:HG3	1:D:332:MET:CE	2.20	0.71
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	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
1:S:290:GLN:C	1:S:331:LEU:HD12	2.09	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
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	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:M:21:GLU:O	1:M:25:ILE:HG13	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:834:LEU:CD2	2:B:54:MET:HE2	2.16	0.71
1:D:217:THR:C	1:D:221:GLN:HE21	1.92	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:G:290:GLN:C	1:G:331:LEU:HD12	2.10	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
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:641:LYS:HD2	4:Z:348:SER:HA	1.72	0.71
1:M:643:GLY:N	4:Z:24:ASP:CA	2.46	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: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:217:THR:C	1:J:221:GLN:HE21	1.92	0.71
1:M:86:ASP:OD2	1:M:87:MLY:HH13	1.91	0.71
1:M:721:LYS:CB	1:M:736:GLN:CD	2.56	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
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.20	0.71
1:M:245:ARG:HD3	1:M:271:GLU:OE1	1.90	0.71
1:M:290:GLN:C	1:M:331:LEU:HD12	2.09	0.71
2:N:163:ALA:C	2:T:21:GLU:CB	2.57	0.71
1:S:734:GLU:OE2	3:U:94:PHE:CE2	2.43	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: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
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.71
2:B:136:MET:O	2:B:140:PHE:HB2	1.90	0.71
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.71
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: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:G:530:MET:HE1	4:V:355:MET:SD	2.31	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
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:795:ARG:CB	3:U:118:MET:HE1	2.18	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
4:X:291:LYS:HD2	4:Z:243:PRO:C	2.10	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: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
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
1:S:770:GLY:C	1:S:771:LEU:N	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:4:LYS:N	3:L:5:ALA:O	2.16	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: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: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: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:786:ILE:CG2	1:S:787:ILE:N	2.54	0.70
4:1:203:THR:N	4:Y:286:ASP:OD1	2.23	0.70
4:1:322:PRO:HB3	4:3:244:ASP:CG	2.10	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:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.70
1:D:530:MET:HE3	4:9:354:GLN:HG2	1.70	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
3:I:25:ILE:O	3:I:63:ILE:HB	1.92	0.70
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.70
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
2:N:150:TYR:C	2:N:151:LYS:CG	2.48	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
2:T:114:LYS:HA	2:T:146:GLY:C	2.03	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
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	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:J:795:ARG:HH21	3:L:116:GLU:CD	1.94	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:410:ASN:CG	4:2:334:GLU: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: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:G:830:PRO:HB3	2:H:67:MET:HE1	1.73	0.70
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.70
1:M:217:THR:O	1:M:220:ASP:HB2	1.91	0.70
1:S:530:MET:HE2	4:2:354:GLN:HG3	1.74	0.70
1:S:721:LYS:CB	1:S:736:GLN:CD	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.70
1:M:553:MLY:HG2	4:2:47:MET:N	2.07	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:166:MET:HE1	1:M:254:PHE:HB2	1.72	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
1:S:292:MET:HE3	1:S:309:PRO:HA	1.74	0.70
1:S:733:PRO:C	1:S:737:PHE:CD1	2.62	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:D:546:THR:HG22	1:D:548:THR:N	2.05	0.69
1:D:795:ARG:CD	3:F:43:ASN:CG	2.59	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: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:166:MET:HE3	1:S:254:PHE:CD2	2.27	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:727:LEU:N	1:D:782:MLY:HE2	2.07	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
1:M:206:LYS:HD3	1:M:217:THR:HG23	0.71	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:148:ARG:HH22	1:S:764:MLY:HH21	1.54	0.69
1:D:713:SER:HB3	1:D:772:LEU:HD12	1.74	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:630:ALA:O	4:Z:25:ASP:CB	2.41	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
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.69
1:G:752:ASP:OD2	1:G:780:ASP:O	2.09	0.69
1:J:538:GLU:CD	4:W:355:MET:HE3	2.12	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:806:MET:C	1:M:807:VAL:CA	2.60	0.69
1:S:643:GLY:N	4:2:24:ASP:CA	2.46	0.69
1:S:820:VAL:CG1	2:T:136:MET:CE	2.70	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:791:GLN:HE22	3:C:115:GLY:C	1.96	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: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
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
4:W:325:MET:CE	4:Y:244:ASP:CB	2.70	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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:HE3	1:A:254:PHE:CD2	2.28	0.69
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.73	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:S:630:ALA:O	4:2:25:ASP:HB2	1.92	0.69
4:1:287:ILE:HG21	4:3:204:ALA:N	2.06	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:292:MET:HE3	1:G:309:PRO:HA	1.74	0.69
1:G:534:SER:C	4:V:351:THR:CA	2.48	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
4:X:286:ASP:OD1	4:Z:202:THR:C	2.31	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:C	3:F:52:ASN:HD21	1.97	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:J:538:GLU:CD	4:W:355:MET:CE	2.62	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:829:TRP:CZ2	2:N:87:LYS:CE	2.65	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
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: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: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	1.75	0.68
1:S:630:ALA:O	4:2:25:ASP:CB	2.41	0.68
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.68
4:W:325:MET:HE2	4:Y:244:ASP:CG	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:97:LEU:HD22	1:A:712:PRO:HB2	1.75	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:546:THR:CG2	4:4:46:GLY:C	2.62	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:M:733:PRO:C	1:M:737:PHE:CD1	2.62	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
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:754:ASP:CG	1:G:779:ARG:CD	2.57	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:530:MET:HE3	4:W:354:GLN:HG2	1.72	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:530:MET:HE2	4:W:354:GLN:HG3	1.74	0.68
1:J:557:GLU:HA	4:Y:48:GLY:CA	2.18	0.68
1:J:819:ASN:OD1	2:K:92:ASP:HB2	1.93	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
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
1:J:553:MLY:CD	4:Y:45:VAL:HG12	2.23	0.68
1:J:819:ASN:OD1	2:K:92:ASP:CB	2.42	0.68
1:S:52:ILE:HD13	1:S:52:ILE:N	2.09	0.68
1:S:786:ILE:C	1:S:788:THR:N	2.47	0.68
2:T:117:LEU:CB	2:T:147:ASN:OD1	2.39	0.68
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.68
1:A:541:MET:CG	4:8:345:ILE:O	2.40	0.68
2:B:117:LEU:CB	2:B:147:ASN:ND2	2.35	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:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.68
1:M:213:LYS:HA	1:M:220:ASP:OD1	1.92	0.68
1:S:213:LYS:HA	1:S:220:ASP:OD1	1.92	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
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.66	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:84:MLY:HH21	1:G:719:ASP:C	2.12	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
1:J:795:ARG:C	3:L:35:ARG:CZ	2.63	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:746:LYS:HZ3	3:U:96:LYS:HA	1.59	0.68
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.76	0.68
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:D:91:MET:HE3	1:D:119:SER:HB2	1.76	0.68
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	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
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
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
1:D:820:VAL:HG11	2:E:136:MET:HE3	1.75	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:NE	3:C:116:GLU:OE2	2.26	0.67
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:753:VAL:C	1:G:779:ARG:HD3	2.13	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:538:GLU:CD	4:2:355:MET:CE	2.62	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: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
1:M:166:MET:HE3	1:M:254:PHE:CD2	2.29	0.67
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
1:S:795:ARG:HG2	3:U:118:MET:HE1	0.70	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:538:GLU:CD	4:8:355:MET:CE	2.62	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: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
3:O:48:LYS:C	3:O:52:ASN:HD21	1.96	0.67
1:S:290:GLN:O	1:S:331:LEU:HD12	1.95	0.67
1:S:751:GLY:C	1:S:779:ARG:HH22	1.97	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:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.67
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.75	0.67
1:D:546:THR:H	1:D:549:SER:HB3	1.59	0.67
1:G:754:ASP:C	1:G:776:GLU:OE1	2.09	0.67
1:J:546:THR:H	1:J:549:SER:HB3	1.59	0.67
2:N:117:LEU:CB	2:N:147:ASN:OD1	2.39	0.67
1:S:537:GLU:C	4:2:351:THR:H	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:325:MET:HE2	4:X:244:ASP:CG	2.08	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:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.67
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	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
3:L:48:LYS:C	3:L:52:ASN:HD21	1.97	0.67
1:S:549:SER:HB2	4:4:43:VAL:CG2	2.24	0.67
1:S:806:MET:C	1:S:807:VAL:N	2.47	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: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
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.47	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:546:THR:H	1:S:549:SER:HB3	1.59	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:537:GLU:C	4:W:351:THR:H	1.98	0.67
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.67
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.67
1:S:166:MET:HE3	1:S:254:PHE:HD2	1.59	0.67
1:S:648:THR:CB	4:2:350:SER:OG	2.43	0.67
1:S:791:GLN:HE22	3:U:115:GLY:C	1.98	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:OD2	4:X:47:MET:HE2	1.91	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
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:A:537:GLU:C	4:8:351:THR:H	1.99	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:292:MET:HE3	1:M:309:PRO:HA	1.77	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: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
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	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
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: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:534:SER:C	4:2:351:THR:CA	2.47	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:M:541:MET:HG2	4:Z:345:ILE:C	2.16	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
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:753:VAL:C	1:G:779:ARG:HH11	1.91	0.66
1:G:757:GLN:HG3	1:G:776:GLU:CB	2.15	0.66
1:J:166:MET:HE3	1:J:254:PHE:CD2	2.30	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:HG2	4:W:345:ILE:C	2.16	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:537:GLU:C	4:Z:351:THR:H	1.98	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: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:709:LYS:C	1:D:710:GLY:CA	2.63	0.66
1:G:612:GLN:NE2	1:G:627:GLY:N	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:S:612:GLN:NE2	1:S:627:GLY:N	2.43	0.66
2:T:150:TYR:C	2:T:151:LYS:CG	2.49	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:537:GLU:C	4:V:351:THR:H	1.99	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
1:M:791:GLN:CD	3:O:116:GLU:H	1.96	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:541:MET:HG2	4:9:345:ILE:C	2.16	0.66
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.66
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	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
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
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.66
1:M:226:ASN:HB2	1:M:227:PRO:HD3	1.78	0.66
1:M:534:SER:C	4:Z:351:THR:CA	2.47	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: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: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
1:S:541:MET:HG2	4:2:345:ILE:C	2.16	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:537:GLU:C	4:9:351:THR:H	1.98	0.66
1:D:831:TRP:CZ2	2:E:51:PHE:CZ	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.66
3:I:48:LYS:C	3:I:52:ASN:HD21	1.97	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:93:MET:HE1	1:J:764:MLY:CD	2.26	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:S:836:PHE:CE1	2:T:159:HIS:C	2.69	0.66
3:U:48:LYS:O	3:U:52:ASN:CG	2.34	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
1:D:534:SER:C	4:9:351:THR:CA	2.47	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:541:MET:HG2	4:V:345:ILE:C	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.65
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
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:91:MET:HE3	1:J:119:SER:HB2	1.78	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:599:ASN:OD1	1:S:649:VAL:N	2.28	0.65
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.65
1:A:107:MLY:HB3	1:A:686:MET:CE	2.27	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:M:769:ALA:C	1:M:770:GLY:HA3	2.17	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:541:MET:HG2	4:8:345:ILE:C	2.16	0.65
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.65
3:F:3:SER:HG	3:F:5:ALA:N	1.95	0.65
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.65
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.65
1:G:94:MET:O	1:G:713:SER:CA	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:538:GLU:CD	4:Z:355:MET:CE	2.62	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:805:ALA:O	1:S:808:GLU:N	2.29	0.65
1:S:819:ASN:OD1	2:T:91:ALA:C	2.32	0.65
4:W:324:THR:HG23	4:Y:247:VAL:H	1.61	0.65
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.76	0.65
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.65
1:A:800:ARG:C	3:C:149:VAL:CG2	2.65	0.65
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.65
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.65
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.65
1:M:831:TRP:CZ2	2:N:47:LEU:CD2	2.76	0.65
1:S:480:ILE:HG22	1:S:481:ASN:N	2.11	0.65
1:S:752:ASP:N	3:U:86:ASP:CG	2.49	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: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:557:GLU:HB2	4:X:47:MET:C	2.16	0.65
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	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:M:296:MLY:HH11	1:M:348:MLY:HH21	1.78	0.65
1:M:529:PRO:C	4:Z:354:GLN:CB	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:820:VAL:HG11	2:N:136:MET:CE	2.27	0.65
2:N:117:LEU:CB	2:N:147:ASN:ND2	2.35	0.65
3:O:48:LYS:O	3:O:52:ASN:CG	2.34	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:793:ARG:HH11	3:U:40:ASN:CG	1.99	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:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.65
1:A:530:MET:HE3	4:8:354:GLN:HG2	1.77	0.65
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	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: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
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.65
1:J:174:SER:O	1:J:670:HIS:HB2	1.95	0.65
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:S:799:MET:SD	3:U:32:ASP:CG	2.75	0.65
2:T:117:LEU:CB	2:T:147:ASN:ND2	2.35	0.65
1:A:504:MLY:C	1:A:762:HIS:NE2	2.59	0.65
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.18	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:217:THR:HB	1:J:220:ASP:OD2	1.97	0.65
1:M:166:MET:HE3	1:M:254:PHE:HD2	1.61	0.65
1:M:636:LYS:HG3	4:Z:334:GLU:CD	2.17	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:A:717:TYR:HD1	1:A:744:SER:HG	1.45	0.65
3:C:48:LYS:O	3:C:52:ASN:CG	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:149:GLN:HG2	1:G:763:THR:HG21	0.65	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
3:L:3:SER:HG	3:L:5:ALA:N	1.95	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:820:VAL:CG1	2:T:136:MET:HE1	2.26	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: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: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: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: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:D:800:ARG:C	3:F:149:VAL:HG21	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.64
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:107:MLY:HB3	1:M:686:MET:CE	2.27	0.64
1:M:642:LYS:CA	4:Z:21:PHE:O	2.45	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
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
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:813:ILE:HG23	2:H:128:PHE:CE1	2.31	0.64
3:I:3:SER:HG	3:I:5:ALA:N	1.95	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
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	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:636:LYS:HG3	4:2:334:GLU:CD	2.17	0.64
1:S:721:LYS:HG2	1:S:736:GLN:CD	1.86	0.64
1:S:806:MET:CA	1:S:807:VAL:N	2.59	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:166:MET:HE3	1:A:254:PHE:HD2	1.60	0.64
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:LYS:CD	4:9:24:ASP:O	2.42	0.64
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	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:J:292:MET:HE3	1:J:309:PRO:HA	1.78	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: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:D:410:ASN:CG	4:9:334:GLU:CA	2.47	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: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
1:M:218:LEU:CD2	1:M:222:ILE:HG12	2.28	0.64
1:S:797:PHE:CD1	3:U:149:VAL:CG1	2.81	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
3:C:3:SER:HG	3:C:5:ALA:N	1.95	0.64
1:D:798:LEU:CD1	3:F:126:LEU:HD21	2.26	0.64
1:G:530:MET:HE3	4:V:354:GLN:HG2	1.79	0.64
1:G:783:LEU:HD12	1:G:783:LEU:N	2.13	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
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
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
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:J:556:ASP:OD2	4:Y:47:MET:CE	2.40	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:783:LEU:C	1:M:786:ILE:HG13	2.16	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:643:GLY:H	4:2:23:GLY:C	2.01	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
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:J:537:GLU:C	4:W:351:THR:N	2.51	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:530:MET:HE3	4:Z:354:GLN:CG	2.23	0.64
1:M:786:ILE:C	1:M:787:ILE:C	2.56	0.64
1:M:803:TYR:HD2	3:O:17:PHE:HZ	1.34	0.64
2:T:117:LEU:CG	2:T:147:ASN:CB	2.76	0.64
4:4:324:THR:HG23	4:6:244:ASP:C	2.18	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:537:GLU:C	4:V:351:THR:N	2.51	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:557:GLU:HB2	4:Y:47:MET:C	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:530:MET:HE2	4:Z:354:GLN:HG3	1.80	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:537:GLU:C	4:2:351:THR:N	2.51	0.64
1:S:541:MET:CA	4:2:143:TYR:OH	2.46	0.64
1:S:731:ALA:CB	3:U:94:PHE:N	2.61	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
1:A:830:PRO:HG2	2:B:67:MET:HE2	1.80	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:C	4:9:351:THR:N	2.51	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
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:J:94:MET:HE1	1:J:101:ALA:HB1	1.80	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
2:N:117:LEU:CG	2:N:147:ASN:CB	2.76	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:642:LYS:CG	4:9:22:ALA:C	2.67	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:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	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:117:LEU:CG	2:H:147:ASN:CB	2.76	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:642:LYS:CG	4:W:22:ALA:C	2.67	0.63
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.63
1:M:541:MET:SD	4:Z:346:LEU:O	2.48	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
1:S:505:MLY:CH2	1:S:762:HIS:CD2	2.80	0.63
1:S:642:LYS:CG	4:2:22:ALA:C	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:210:GLN:O	1:M:211:SER:OG	2.15	0.63
1:S:91:MET:HE3	1:S:119:SER:HB2	1.81	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
1:D:724:TYR:HE1	1:D:778:MET:C	2.01	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:643:GLY:H	4:V:23:GLY:C	2.02	0.63
1:G:836:PHE:CE2	2:H:160:GLY:N	2.61	0.63
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.63
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	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:C	4:Z:351:THR:N	2.51	0.63
1:M:537:GLU:HB3	1:M:648:THR:HB	1.80	0.63
1:M:642:LYS:CG	4:Z:22:ALA:C	2.67	0.63
1:M:643:GLY:H	4:Z:23:GLY:C	2.02	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
1:M:767:PHE:CZ	1:M:772:LEU:HD13	2.32	0.63
1:S:217:THR:HB	1:S:220:ASP:OD2	1.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:E:163:ALA:C	2:K:22:THR:N	2.51	0.63
1:G:202:SER:CA	1:G:207:LYS:HE3	2.28	0.63
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.63
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.63
1:J:567:LYS:HZ1	4:Y:92:ASN:ND2	1.69	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
2:E:149:ASP:OD2	2:E:150:TYR:C	2.36	0.63
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.63
2:H:149:ASP:OD2	2:H:150:TYR:C	2.36	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
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	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
2:N:149:ASP:OD2	2:N:150:TYR:C	2.36	0.63
1:S:406:VAL:HG12	1:S:407:GLY:N	2.13	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
1:A:93:MET:CE	1:A:716:LEU:H	2.11	0.63
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:CZ	3:L:116:GLU:OE2	2.39	0.63
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.34	0.63
1:J:817:GLN:CD	2:K:127:ARG:CG	2.66	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:94:MET:HE1	1:M:101:ALA:HB1	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
1:S:541:MET:C	4:2:143:TYR:CZ	2.73	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: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:G:830:PRO:CB	2:H:67:MET:HE1	2.29	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
4:X:287:ILE:C	4:Z:205:GLU:OE1	2.37	0.63
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:754:ASP:O	1:G:776:GLU:CD	2.36	0.62
1:G:789:ALA:HB1	3:I:81:GLN:NE2	2.14	0.62
1:G:791:GLN:CD	3:I:116:GLU:N	2.52	0.62
1:J:166:MET:HE3	1:J:254:PHE:HD2	1.63	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: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:A:541:MET:C	4:8:143:TYR:CZ	2.73	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.79	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:J:556:ASP:OD2	4:Y:47:MET:HE2	1.94	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:730:SER:C	1:M:733:PRO:HD2	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:530:MET:HA	4:8:354:GLN:CB	2.29	0.62
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	1.99	0.62
2:B:114:LYS:HA	2:B:146:GLY:C	2.03	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:541:MET:C	4:Z:143:TYR:CZ	2.73	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
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:91:MET:HE3	1:M:119:SER:HB2	1.82	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
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:GLN:HG3	1:A:318:GLY:N	2.15	0.62
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.62
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.30	0.62
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.62
1:A:799:MET:SD	3:C:32:ASP:C	2.78	0.62
2:B:149:ASP:OD2	2:B:150:TYR:C	2.37	0.62
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.62
1:D:839:MLY:CH1	2:E:159:HIS:CD2	2.82	0.62
1:G:503:TYR:HE1	1:G:711:PHE:CD2	2.15	0.62
1:G:541:MET:C	4:V:143:TYR:CZ	2.73	0.62
1:G:717:TYR:HD1	1:G:744:SER:HG	1.47	0.62
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	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
1:J:830:PRO:HB3	2:K:67:MET:HE1	1.81	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:730:SER:C	1:S:733:PRO:HD2	2.20	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:91:MET:HE3	1:A:119:SER:HB2	1.82	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:A:830:PRO:HG2	2:B:67:MET:HE1	1.81	0.62
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.82	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:J:210:GLN:O	1:J:211:SER:OG	2.15	0.62
1:J:730:SER:C	1:J:733:PRO:HD2	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:831:TRP:HE1	2:N:67:MET:CB	2.13	0.62
1:S:538:GLU:CD	4:2:355:MET:HE3	2.19	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:149:ASP:OD2	2:T:150:TYR:C	2.36	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:730:SER:C	1:A:733:PRO:HD2	2.20	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
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.62
1:D:834:LEU:HD21	2:E:54:MET:HE2	1.81	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:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.62
1:M:717:TYR:HD1	1:M:744:SER:HG	1.46	0.62
1:S:819:ASN:CB	2:T:90:GLY:O	2.48	0.62
3:U:48:LYS:C	3:U:52:ASN:HD21	1.96	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
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: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
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: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
4:3:324:THR:HG23	4:5:244:ASP:C	2.18	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
4:X:287:ILE:O	4:Z:205:GLU:CD	2.38	0.62
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.62
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.82	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
3:C:48:LYS:C	3:C:52:ASN:HD21	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.62
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.62
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	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
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
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.62
1:D:541:MET:HE1	4:9:346:LEU:HD12	1.82	0.62
1:D:641:LYS:CE	1:D:647:GLN:CB	2.75	0.62
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:541:MET:HE2	4:W:346:LEU:HD12	1.82	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:35:MLY:CE	1:M:777:GLU:CD	2.63	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: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: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:721:LYS:HG2	1:D:736:GLN:CD	1.86	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
1:G:538:GLU:CD	4:V:355:MET:CE	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:CG	4:V:22:ALA:C	2.66	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
1:J:634:GLY:N	4:W:25:ASP:O	2.31	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:M:639:GLY:N	4:Z:344:SER:C	2.54	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
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
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
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:93:MET:CE	1:A:715:VAL:CA	2.64	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:G:506:GLU:CD	1:G:760:PHE:O	2.37	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:541:MET:C	4:W:143:TYR:CZ	2.73	0.61
1:J:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:J:643:GLY:H	4:W:23:GLY:C	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.61
1:A:639:GLY:N	4:8:344:SER:C	2.54	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
2:H:150:TYR:C	2:H:151:LYS:CG	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: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:557:GLU:O	1:S:557:GLU:HG3	2.00	0.61
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:818:TYR:CG	2:N:127:ARG:NH1	2.68	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:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.61
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.61
1:G:530:MET:HE3	4:V:355:MET:SD	2.41	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:557:GLU:HG3	1:M:557:GLU:O	2.00	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: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
4:6:361:GLU:HB3	4:6:369:ILE:HG12	1.82	0.61
1:A:502:GLU:HA	1:A:762:HIS:H	1.64	0.61
1:A:643:GLY:H	4:8:23:GLY:C	2.02	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: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: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: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:217:THR:C	1:G:221:GLN:HG2	2.21	0.61
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:N:114:LYS:HA	2:N:146:GLY:C	2.03	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
1:S:795:ARG:HB3	3:U:35:ARG:CZ	2.30	0.61
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.61
1:G:541:MET:HE1	4:V:346:LEU:HD12	1.82	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:502:GLU:CD	1:S:761:GLY:HA3	2.19	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
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: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:D:643:GLY:H	4:9:23:GLY:C	2.02	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
2:K:140:PHE:O	2:K:141:PRO:C	2.33	0.60
1:M:84:MLY:CH2	1:M:719:ASP:C	2.60	0.60
1:M:786:ILE:N	1:M:787:ILE:N	2.48	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
3:C:63:ILE:HG22	3:C:64:THR:O	2.01	0.60
1:D:665:ARG:C	1:D:667:THR:H	2.05	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:G:557:GLU:HG3	1:G:557:GLU:O	2.01	0.60
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
1:S:749:GLY:C	3:U:89:GLU:HB3	2.20	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: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:217:THR:C	1:D:221:GLN:HG2	2.21	0.60
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.60
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.60
1:D:793:ARG:HH21	3:F:147:MET:HE3	1.57	0.60
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.64	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:217:THR:C	1:M:221:GLN:HG2	2.22	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
1:S:817:GLN:CD	2:T:127:ARG:CD	2.58	0.60
3:U:63:ILE:HG22	3:U:64:THR:O	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:754:ASP:CG	1:G:779:ARG:CB	2.69	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:665:ARG:C	1:J:667:THR:H	2.05	0.60
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.60
1:S:84:MLY:CH2	1:S:719:ASP:O	2.49	0.60
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
1:S:838:ILE:CD1	2:T:54:MET:HE1	2.26	0.60
2:T:114:LYS:HG3	2:T:146:GLY:HA2	1.82	0.60
4:Y: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: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:798:LEU:HD11	3:F:126:LEU:CD2	2.31	0.60
1:D:820:VAL:HG11	2:E:136:MET:HE1	1.82	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:643:GLY:O	1:S:644:SER:CB	2.49	0.60
1:S:717:TYR:HD1	1:S:744:SER:HG	1.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:599:ASN:CB	1:G:649:VAL:HB	2.32	0.60
1:G:634:GLY:N	4:V:25:ASP:O	2.31	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:557:GLU:CB	4:Y:47:MET:C	2.50	0.60
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
1:M:295:MLY:HG3	1:M:332:MET:HE1	1.83	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:541:MET:HE2	4:Z:346:LEU:HD12	1.81	0.60
1:M:553:MLY:NZ	4:2:45:VAL:HG13	2.17	0.60
3:O:3:SER:HG	3:O:5:ALA:N	1.99	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:665:ARG:C	1:M:667:THR:H	2.05	0.60
1:S:7:MET:HE3	1:S:14:ALA:HB1	1.82	0.60
1:S:217:THR:C	1:S:221:GLN:HG2	2.21	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
3:U:3:SER:HG	3:U:5:ALA:N	1.99	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:217:THR:C	1:A:221:GLN:HG2	2.21	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:217:THR:C	1:J:221:GLN:HG2	2.21	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:786:ILE:C	1:S:787:ILE:CA	2.70	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
1:J:84:MLY:HD2	1:J:724:TYR:CZ	2.33	0.60
1:S:502:GLU:CD	1:S:761:GLY:HA2	2.22	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:791:GLN:NE2	3:C:115:GLY:HA3	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	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
1:M:806:MET:C	1:M:807:VAL:HA	2.21	0.59
1:S:135:TYR:N	1:S:135:TYR:CD1	2.70	0.59
1:S:503:TYR:HH	1:S:711:PHE:HD2	1.50	0.59
1:S:541:MET:HE2	4:2:346:LEU:HD12	1.82	0.59
1:S:665:ARG:C	1:S:667:THR:H	2.05	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:710:GLY:CA	1:J:772:LEU:HD23	2.23	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:210:GLN:O	1:S:211:SER:OG	2.15	0.59
1:S:506:GLU:CD	1:S:760:PHE:HD1	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:665:ARG:C	1:A:667:THR:H	2.05	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:295:MLY:HG3	1:G:332:MET:HE1	1.84	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:G:829:TRP:HH2	2:H:83:MET:HE3	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:J:60:VAL:O	1:J:71:THR:HA	2.02	0.59
1:J:552:ASN:C	4:Y:47:MET:HE1	2.22	0.59
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.84	0.59
2:N:114:LYS:HG3	2:N:146:GLY:HA2	1.82	0.59
2:N:140:PHE:O	2:N:141:PRO:C	2.33	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
1:S:804:ARG:C	1:S:808:GLU:H	2.06	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
4:X:291:LYS:HG3	4:Z:243:PRO:C	2.22	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:538:GLU:CD	4:9:355:MET:CE	2.62	0.59
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.33	0.59
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.59
1:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.59
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: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:S:546:THR:HG21	4:4:46:GLY:C	2.21	0.59
1:S:804:ARG:C	1:S:807:VAL:CB	2.68	0.59
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.59
1:A:530:MET:HE3	4:8:355:MET:SD	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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:166:MET:HE3	1:G:254:PHE:CD2	2.38	0.59
1:G:649:VAL:HG22	1:G:649:VAL:HA	1.80	0.59
1:G:665:ARG:C	1:G:667:THR:H	2.05	0.59
1:G:791:GLN:HE22	3:I:115:GLY:C	2.01	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: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
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
1:D:717:TYR:HD1	1:D:744:SER:HG	1.50	0.59
3:F:49:ILE:CA	3:F:52:ASN:ND2	2.53	0.59
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	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:G:830:PRO:CB	2:H:67:MET:CE	2.81	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:7:MET:HE3	1:M:14:ALA:HB1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:40:VAL:HG22	1:M:41:VAL:H	1.67	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:530:MET:HE3	4:9:354:GLN:CG	2.29	0.58
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:D:834:LEU:HD21	2:E:54:MET:HE3	1.84	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
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:J:717:TYR:HD1	1:J:744:SER:HG	1.50	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: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:800:ARG:HB3	3:F:149:VAL:HG22	1.85	0.58
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.58
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.58
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.84	0.58
1:J:795:ARG:HE	3:L:116:GLU:CD	2.04	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
4:1:324:THR:HG23	4:3:244:ASP:CA	2.32	0.58
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.84	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:732:ILE:CD1	1:D:782:MLY:HH22	2.33	0.58
1:G:819:ASN:CB	2:H:92:ASP:HB2	2.31	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:634:GLY:N	4:Z:25:ASP:O	2.31	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
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:93:MET:CE	1:J:764:MLY:HD2	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:265:ILE:HG22	1:A:266:GLU:N	2.18	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
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:265:ILE:HG22	1:G:266:GLU:N	2.18	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:84:MLY:HH23	1:J:719:ASP:C	2.22	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: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
1:J:93:MET:CE	1:J:764:MLY:CD	2.81	0.58
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.58
1:M:601:ASP:N	1:M:602:PRO:HD3	2.18	0.58
1:S:265:ILE:HG22	1:S:266:GLU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:2:167:GLU:OE1	4:4:43:VAL:N	2.36	0.58
1:A:794:CYS:O	1:A:798:LEU:N	2.37	0.58
1:A:799:MET:HE1	3:C:32:ASP:HB3	1.83	0.58
2:B:140:PHE:O	2:B:141:PRO:C	2.33	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
1:D:726:VAL:C	1:D:785:GLU:HG2	2.23	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:48:VAL:HG22	1:J:49:MLY:N	2.18	0.58
1:J:92:ALA:O	1:J:714:ARG:HG3	2.02	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.58
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	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: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
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:817:GLN:CG	2:H:127:ARG:CB	2.74	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:464:ILE:HG22	1:M:465:ALA:N	2.18	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: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:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.58
1:M:820:VAL:CG1	2:N:136:MET:CE	2.81	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
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: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: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: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
4:2:167:GLU:CD	4:4:43:VAL:O	2.42	0.57
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.84	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:M:64:THR:HG22	1:M:65:GLU:N	2.19	0.57
1:M:195:TYR:O	1:M:199:ILE:HG23	2.03	0.57
1:M:265:ILE:HG22	1:M:266:GLU:N	2.18	0.57
1:M:481:ASN:N	1:M:481:ASN:ND2	2.51	0.57
1:M:538:GLU:O	1:M:541:MET:HB2	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:287:ILE:HG21	4:5:204:ALA:N	2.19	0.57
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.86	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:91:MET:HE3	1:G:119:SER:HB2	1.86	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
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
2:T:112:ILE:C	2:T:147:ASN:O	2.42	0.57
4:4:287:ILE:CB	4:6:203:THR:HG22	2.29	0.57
4:4:322:PRO:HB3	4:6:244:ASP:OD2	2.04	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: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: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: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
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:599:ASN:CG	1:M:649:VAL:HB	2.25	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:S:127:ASN:ND2	1:S:128:PRO:HD2	2.16	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:599:ASN:CG	1:A:649:VAL:HB	2.25	0.57
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:552:ASN:C	4:X:47:MET:HE1	2.24	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
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.57
1:S:599:ASN:CG	1:S:649:VAL:HB	2.25	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:798:LEU:HD21	3:C:126:LEU:HD11	1.84	0.57
2:B:112:ILE:C	2:B:147:ASN:O	2.42	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: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: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
1:M:747:LEU:O	1:M:747:LEU:HD23	2.04	0.57
1:S:295:MLY:HG3	1:S:332:MET:HE1	1.86	0.57
1:S:630:ALA:CA	4:2:25:ASP:OD2	2.53	0.57
1:S:642:LYS:CA	4:2:22:ALA:C	2.70	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:173:GLN:C	1:A:667:THR:HG23	2.25	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: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:173:GLN:C	1:G:667:THR:HG23	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.57
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	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:418:THR:HG22	1:J:419:VAL:H	1.69	0.57
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	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:93:MET:HE2	1:M:764:MLY:NZ	2.20	0.57
1:M:640:LYS:C	4:Z:23:GLY:CA	2.64	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:S:795:ARG:C	3:U:35:ARG:NH2	2.58	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:173:GLN:C	1:D:667:THR:HG23	2.25	0.57
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.60	0.57
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.57
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.57
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.57
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.57
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	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:805:ALA:O	1:S:807:VAL:C	2.43	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
1:A:292:MET:HE3	1:A:309:PRO:CA	2.34	0.57
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.57
1:G:166:MET:HE3	1:G:254:PHE:HD2	1.70	0.57
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	0.57
1:G:791:GLN:NE2	3:I:115:GLY:C	2.56	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: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
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: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:149:GLN:HB3	1:A:718:ALA:C	2.25	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.45	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:599:ASN:CG	1:D:649:VAL:HB	2.25	0.56
1:D:638:GLY:CA	4:9:345:ILE:H	2.19	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.56
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.94	0.56
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	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:109:ARG:O	1:M:114:MET:N	2.37	0.56
1:M:173:GLN:C	1:M:667:THR:HG23	2.25	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:173:GLN:C	1:S:667:THR:HG23	2.25	0.56
1:S:639:GLY:N	4:2:344:SER:C	2.54	0.56
1:S:731:ALA:HB1	3:U:94:PHE:N	2.17	0.56
1:S:731:ALA:C	3:U:93:VAL:CG1	2.62	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:A:795:ARG:CZ	3:C:116:GLU:CD	2.43	0.56
1:D:217:THR:HG22	1:D:218:LEU:O	2.06	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:639:GLY:N	4:V:344:SER:C	2.54	0.56
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.56
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.56
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
4:1:287:ILE:HG13	4:3:202:THR:CA	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	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: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
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.56
1:A:295:MLY:HG3	1:A:332:MET:HE1	1.88	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:135:TYR:N	1:G:135:TYR:HD1	2.04	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:839:MLY:HH11	2:K:158:THR:CG2	2.34	0.56
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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:604:ASN:OD1	1:M:607:VAL:HG23	2.06	0.56
1:S:82:PRO:HD2	1:S:85:TYR:CD2	2.40	0.56
1:S:731:ALA:CB	3:U:93:VAL:HG12	2.36	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:410:ASN:CG	4:8:334:GLU:CA	2.48	0.56
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	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:99:GLU:OE2	1:J:696:ARG:NH2	2.30	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
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: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
4:7:365: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:D:735:GLY:C	1:D:743:ALA:HB1	1.84	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:538:GLU:CG	4:V:351:THR:C	2.73	0.56
1:G:769:ALA:HB2	1:G:770:GLY:N	2.21	0.56
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.56
1:M:537:GLU:HB3	1:M:648:THR:CB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:32:PHE:CG	1:S:83:PRO:HD3	2.41	0.56
1:S:410:ASN:CG	4:2:334:GLU:C	2.65	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
1:A:116:TYR:CE2	1:A:154:HIS:CD2	2.94	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:7:MET:HE3	1:G:14:ALA:CB	2.36	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:640:LYS:C	1:J:645:SER:OG	2.44	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
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:D:640:LYS:C	1:D:645:SER:OG	2.44	0.55
1:D:643:GLY:N	4:9:23:GLY:C	2.55	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:M:505:MLY:HG3	1:M:762:HIS:HE1	1.72	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:546:THR:HG21	4:4:47:MET:C	2.27	0.55
1:S:634:GLY:N	4:2:25:ASP:O	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:530:MET:HA	4:W:354:GLN:CD	2.11	0.55
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	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: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: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:295:MLY:HG3	1:D:332:MET:HE1	1.88	0.55
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	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:530:MET:HE3	4:Z:354:GLN:CB	2.36	0.55
1:M:804:ARG:HA	1:M:807:VAL:HB	1.89	0.55
1:M:817:GLN:CD	2:N:127:ARG:CD	2.69	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
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:538:GLU:CG	4:9:351:THR:C	2.74	0.55
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	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:7:MET:HE3	1:M:14:ALA:CB	2.37	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:7:MET:HE3	1:A:14:ALA:CB	2.37	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:640:LYS:C	1:G:645:SER:OG	2.44	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	1:M:645:SER:OG	2.44	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:538:GLU:CD	4:2:355:MET:HE1	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.55
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.55
1:J:84:MLY:CE	1:J:724:TYR:CE2	2.60	0.55
1:J:292:MET:HE1	1:J:309:PRO:CD	2.37	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
2:N:112:ILE:C	2:N:147:ASN:O	2.42	0.55
1:S:538:GLU:CG	4:2:351:THR:C	2.73	0.55
1:S:635:GLY:HA3	4:2:334:GLU:CG	2.30	0.55
1:S:642:LYS:HG2	4:2:22:ALA:C	2.27	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:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.88	0.55
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.55
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.55
1:J:530:MET:HE3	4:W:354:GLN:CG	2.31	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:410:ASN:CG	4:Z:334:GLU:C	2.65	0.55
1:M:538:GLU:CG	4:Z:351:THR:C	2.73	0.55
1:M:546:THR:HG21	1:M:548:THR:HB	1.88	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: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:629:GLU:CB	1:A:643:GLY:C	2.75	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:721:LYS:C	1:J:736:GLN:OE1	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:506:GLU:HG2	1:S:759:ALA:HA	1.88	0.55
1:S:530:MET:HE3	4:2:354:GLN:CG	2.30	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
1:A:22:LYS:HA	1:A:25:ILE:HB	1.88	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: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:292:MET:HE1	1:G:309:PRO:CD	2.37	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
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	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:721:LYS:C	1:S:736:GLN:OE1	2.46	0.55
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.55
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:94:MET:C	1:G:713:SER:HB3	2.27	0.54
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.54
1:G:629:GLU:CB	1:G:643:GLY:C	2.76	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
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:642:LYS:HG2	4:Z:22:ALA:C	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:292:MET:HE1	1:S:309:PRO:CD	2.37	0.54
3:U:102:VAL:HG23	3:U:139:TYR:CD1	2.39	0.54
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:538:GLU:CG	4:8:351:THR:C	2.74	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:305:ILE:HG22	1:D:312:TYR:CZ	2.42	0.54
1:D:629:GLU:CB	1:D:643:GLY:C	2.75	0.54
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.54
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	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:G:830:PRO:CG	2:H:67:MET:HE2	2.37	0.54
1:J:295:MLY:HG3	1:J:332:MET:HE1	1.89	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:7:MET:HE3	1:S:14:ALA:CB	2.37	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
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:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	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:292:MET:HE1	1:M:309:PRO:CD	2.37	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CZ	2.42	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:646:PHE:CE2	1:S:652:LEU:CG	2.90	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
1:J:757:GLN:CD	1:J:777:GLU:N	2.60	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
1:M:642:LYS:CA	4:Z:22:ALA:C	2.70	0.54
2:N:146:GLY:O	2:N:147:ASN:ND2	2.41	0.54
1:S:305:ILE:HG22	1:S:312:TYR:CZ	2.42	0.54
1:S:629:GLU:CB	1:S:643:GLY:C	2.76	0.54
1:S:640:LYS:C	1:S:645:SER:OG	2.44	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:292:MET:HE1	1:D:309:PRO:CD	2.37	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: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:J:629:GLU:CB	1:J:643:GLY:C	2.76	0.54
1:M:530:MET:CE	4:Z:354:GLN:HG3	2.35	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: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
1:A:94:MET:O	1:A:713:SER:CB	2.52	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.54
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:640:LYS:C	4:W:23:GLY:CA	2.64	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:721:LYS:C	1:M:736:GLN:OE1	2.46	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:530:MET:HE3	4:2:355:MET:SD	2.48	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:765:VAL:HG12	1:S:766:PHE:N	2.22	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: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:410:ASN:CG	4:W:334:GLU:C	2.65	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:M:795:ARG:HG3	3:O:118:MET:HE1	1.70	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
1:S:820:VAL:HG13	2:T:136:MET:HE1	1.89	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:506:GLU:CD	1:A:761:GLY:N	2.61	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
2:H:112:ILE:C	2:H:147:ASN:O	2.42	0.54
1:J:530:MET:HE3	4:W:355:MET:SD	2.48	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:G:795:ARG:C	3:I:35:ARG:NH2	2.61	0.54
1:J:538:GLU:CG	4:W:351:THR:C	2.73	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: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
4:1:287:ILE:CG2	4:3:202:THR:C	2.73	0.54
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.54
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.54
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.54
1:D:836:PHE:CE1	2:E:159:HIS:C	2.79	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
1:J:829:TRP:CZ2	2:K:83:MET:CE	2.91	0.54
1:J:829:TRP:HZ2	2:K:83:MET:HE1	1.73	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
1:S:277:PHE:CG	1:S:278:GLN:N	2.76	0.54
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:J:643:GLY:N	4:W:23:GLY:C	2.55	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: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:G:217:THR:C	1:G:221:GLN:NE2	2.62	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:629:GLU:CB	1:M:643:GLY:C	2.76	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
3:U:92:ARG:HA	3:U:139:TYR:OH	2.08	0.53
1:A:292:MET:HE1	1:A:309:PRO:CD	2.38	0.53
1:A:505:MLY:HB2	1:A:761:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:724:TYR:CE1	1:D:779:ARG:HA	2.43	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
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:539:GLU:OE2	4:2:45:VAL:C	2.47	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:305:ILE:HG22	1:S:312:TYR:CE2	2.43	0.53
1:S:599:ASN:CG	1:S:649:VAL:H	2.12	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:A:795:ARG:HG2	3:C:118:MET:HE1	1.88	0.53
1:D:800:ARG:HD3	3:F:149:VAL:O	2.08	0.53
1:D:834:LEU:HD21	2:E:54:MET:HG3	1.90	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: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:217:THR:C	1:M:221:GLN:NE2	2.62	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:M:599:ASN:CG	1:M:649:VAL:H	2.12	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
4:1:324:THR:OG1	4:3:244:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	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
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
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	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: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:295:MLY:HE2	1:M:332:MET:HE1	1.91	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:93:MET:HE1	1:S:764:MLY:CB	2.15	0.53
1:S:295:MLY:HE2	1:S:332:MET:HE1	1.91	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
1:S:805:ALA:C	1:S:808:GLU:N	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:800:ARG:NH2	3:C:40:ASN:CG	2.62	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
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:599:ASN:CG	1:J:649:VAL:H	2.12	0.53
1:J:820:VAL:HG13	2:K:136:MET:HE1	1.90	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:S:640:LYS:C	4:2:23:GLY:CA	2.64	0.53
1:S:804:ARG:C	1:S:807:VAL:N	2.62	0.53
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.91	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:217:THR:C	1:D:221:GLN:NE2	2.62	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:G:295:MLY:HE2	1:G:332:MET:HE1	1.91	0.53
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	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: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
1:M:795:ARG:NH2	3:O:116:GLU:CD	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:T:117:LEU:CG	2:T:147:ASN:OD1	2.52	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:539:GLU:OE2	4:V:45:VAL:C	2.47	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:642:LYS:HG2	4:8:22:ALA:C	2.28	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
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:721:LYS:C	1:G:736:GLN:OE1	2.46	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:499:GLU:CD	1:A:766:PHE:CE2	2.82	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
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	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:292:MET:CE	1:G:309:PRO:HA	2.39	0.53
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	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
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:42:HIS:HB3	1:M:45:GLN:O	2.09	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:410:ASN:CG	4:8:334:GLU:C	2.65	0.52
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
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	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:218:LEU:N	1:J:221:GLN:HG2	2.24	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:292:MET:CE	1:M:309:PRO:HA	2.39	0.52
1:M:404:PRO:HG3	1:M:417:GLU:HG3	1.91	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:M:819:ASN:OD1	2:N:90:GLY:O	2.26	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
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:292:MET:HE1	1:A:309:PRO:HD3	1.91	0.52
1:A:502:GLU:HG3	1:A:760:PHE:C	2.25	0.52
1:A:796:GLY:HA3	3:C:40:ASN:OD1	2.09	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:599:ASN:CG	1:G:649:VAL:H	2.12	0.52
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	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
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:A:795:ARG:CD	3:C:43:ASN:CG	2.77	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.52
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.52
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: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
2:N:149:ASP:CG	2:N:150:TYR:N	2.49	0.52
1:S:156:PHE:HD1	1:S:195:TYR:CD1	2.27	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: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:292:MET:CE	1:J:309:PRO:HA	2.39	0.52
1:J:553:MLY:HH12	4:Y:45:VAL:CG1	2.30	0.52
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	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:530:MET:HE3	4:9:355:MET:SD	2.49	0.52
1:D:795:ARG:HD2	3:F:43:ASN:OD1	1.95	0.52
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.52
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
1:M:820:VAL:CG1	2:N:136:MET:HE1	2.40	0.52
1:S:217:THR:C	1:S:221:GLN:NE2	2.62	0.52
1:S:805:ALA:C	1:S:809:ARG:HB2	2.28	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: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
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.52
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.92	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:295:MLY:HG3	1:J:332:MET:HE2	1.91	0.52
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:B:54:MET:C	2:H:21:GLU:OE1	2.47	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: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: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: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: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:M:798:LEU:HD11	3:O:126:LEU:HG	1.81	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:829:TRP:CZ2	2:K:83:MET:HE1	2.45	0.52
1:M:94:MET:C	1:M:713:SER:HB3	2.31	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
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
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:S:40:VAL:HG13	1:S:41:VAL:O	2.10	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
4:1:287:ILE:C	4:3:203:THR:HG22	2.30	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:642:LYS:HG2	4:W:21:PHE:C	2.30	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
1:D:838:ILE:HD13	2:E:54:MET:CE	2.40	0.51
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.51
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.51
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	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: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: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
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:795:ARG:CA	3:U:118:MET:HE1	2.40	0.51
1:S:821:ARG:HH12	2:T:127:ARG:CZ	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:MLY:CB	1:D:686:MET:HE2	2.38	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:G:557:GLU:CB	4:X:47:MET:C	2.50	0.51
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.51
1:M:38:VAL:CG1	1:M:39:PHE:N	2.74	0.51
1:M:559:LEU:HD23	1:M:559:LEU:C	2.31	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: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: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:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
1:J:83:PRO:C	1:J:723:ARG:NH2	2.64	0.51
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.51
2:K:117:LEU:CG	2:K:147:ASN:OD1	2.52	0.51
1:M:13:ALA:C	1:M:15:PRO:HD2	2.31	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
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
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	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:295:MLY:HE2	1:D:332:MET:HE1	1.91	0.51
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.51
3:F:100:GLY:O	3:F:138:ASN:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	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:13:ALA:C	1:J:15:PRO:HD2	2.31	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: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:13:ALA:C	1:S:15:PRO:HD2	2.31	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:742:LYS:O	1:S:745:GLU:HB2	2.10	0.51
4:3:287:ILE:CG2	4:5:202:THR:C	2.65	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:13:ALA:C	1:D:15:PRO:HD2	2.31	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:508:ILE:HD13	1:D:766:PHE:CD2	2.45	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
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
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
1:A:631:GLU:C	4:8:25:ASP:HB2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:538:GLU:OE1	4:9:355:MET:HE3	2.11	0.51
1:D:559:LEU:HD23	1:D:559:LEU:C	2.31	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:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.51
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.51
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.91	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: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:169:ASP:OD1	1:S:169:ASP:N	2.44	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: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:212:GLY:O	1:D:213:LYS:HB2	2.11	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
1:G:795:ARG:CG	3:I:118:MET:HE2	2.07	0.51
3:I:100:GLY:O	3:I:138:ASN:HA	2.11	0.51
1:J:169:ASP:N	1:J:169:ASP:OD1	2.44	0.51
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.51
1:J:400:ALA:HB1	1:J:606:THR:HG22	1.93	0.51
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:631:GLU:C	4:Z:25:ASP:HB2	2.32	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: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:559:LEU:HD23	1:A:559:LEU:C	2.31	0.51
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.51
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	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
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:640:LYS:CA	1:A:645:SER:OG	2.58	0.50
1:A:709:LYS:C	1:A:710:GLY:CA	2.64	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:631:GLU:C	4:9:25:ASP:HB2	2.31	0.50
1:D:732:ILE:O	1:D:736:GLN:HG3	2.11	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:M:675:ILE:CG2	1:M:676:ILE:N	2.74	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:S:642:LYS:HG2	4:2:21:PHE:C	2.30	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
1:D:295:MLY:HG3	1:D:332:MET:HE2	1.92	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:797:PHE:CD2	3:I:126:LEU:CD2	2.84	0.50
1:G:829:TRP:CH2	2:H:83:MET:HE3	2.46	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:546:THR:CB	4:4:46:GLY:C	2.80	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:732:ILE:H	1:D:733:PRO:CD	2.22	0.50
1:D:795:ARG:HD2	3:F:43:ASN:CG	2.32	0.50
1:D:800:ARG:HD2	3:F:149:VAL:C	2.30	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:631:GLU:C	4:V:25:ASP:HB2	2.31	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:559:LEU:HD23	1:J:559:LEU:C	2.31	0.50
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	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:93:MET:HG2	1:S:715:VAL:HA	1.90	0.50
1:S:530:MET:CE	4:2:354:GLN:HG3	2.35	0.50
1:S:559:LEU:C	1:S:559:LEU:HD23	2.31	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:629:GLU:CB	1:A:645:SER:N	2.74	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:169:ASP:OD1	1:D:169:ASP:N	2.44	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:1:287:ILE:HG13	4:3:202:THR:CB	2.42	0.50
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.31	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:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.50
1:D:795:ARG:HG2	3:F:118:MET:HE1	0.72	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:642:LYS:HG2	4:Z:21:PHE:C	2.29	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: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:715:VAL:O	1:A:764:MLY:HB3	2.12	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: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
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	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:A:93:MET:C	1:A:713:SER:HB3	2.32	0.50
1:A:732:ILE:O	1:A:736:GLN:HG3	2.12	0.50
1:A:795:ARG:NH2	3:C:116:GLU:OE1	2.37	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:538:GLU:OE1	4:W:351:THR:HB	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:289:TYR:OH	1:A:315:VAL:O	2.27	0.50
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	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:D:642:LYS:CA	4:9:22:ALA:C	2.71	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:733:PRO:CA	1:S:737:PHE:CE1	2.95	0.50
1:A:214:MET:HA	1:A:340:ILE:CD1	2.41	0.50
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	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:292:MET:HE1	1:D:309:PRO:HD3	1.94	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:649:VAL:HA	1:D:649:VAL:HG23	1.82	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:816:ILE:HD11	2:H:100:ALA:HB3	1.94	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:409:GLY:N	1:M:636:LYS:CD	2.70	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
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	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: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: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:642:LYS:HA	4:Z:22:ALA:C	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:642:LYS:HA	4:2:22:ALA:C	2.33	0.49
1:S:753:VAL:N	1:S:779:ARG:NH2	2.60	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:51:THR:C	1:A:62:VAL:HG13	2.32	0.49
1:A:768:MLY:CB	1:A:771:LEU:HD13	2.42	0.49
1:D:292:MET:CE	1:D:309:PRO:HA	2.39	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:103:LEU:C	1:G:103:LEU:HD12	2.33	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.61	0.49
1:G:789:ALA:HB1	3:I:81:GLN:CD	2.33	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
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	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
1:S:41:VAL:HG21	1:S:76:GLN:HG3	1.93	0.49
1:S:292:MET:CE	1:S:309:PRO:HA	2.40	0.49
1:S:631:GLU:C	4:2:25:ASP:HB2	2.32	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
4:7:318: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:G:820:VAL:CG1	2:H:136:MET:CE	2.87	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:41:VAL:CG1	1:J:42:HIS:N	2.75	0.49
1:J:94:MET:C	1:J:713:SER:CB	2.61	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	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: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: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
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: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
2:B:117:LEU:CG	2:B:147:ASN:OD1	2.52	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:51:THR:C	1:G:62:VAL:HG13	2.32	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: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:J:530:MET:CE	4:W:354:GLN:HG3	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	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: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
1:A:834:LEU:CD2	2:B:54:MET:HE3	2.34	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
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: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:640:LYS:C	4:8:23:GLY:CA	2.64	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
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:103:LEU:C	1:S:103:LEU:HD12	2.33	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:470:PHE:O	1:A:473:ASN:ND2	2.40	0.49
1:A:795:ARG:CG	3:C:118:MET:CE	2.86	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:792:ALA:HB1	3:I:42:THR:N	2.28	0.49
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.49
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:530:MET:HA	4:2:354:GLN:CD	2.11	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
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
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
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:103:LEU:C	1:A:103:LEU:HD12	2.33	0.49
1:A:149:GLN:HG2	1:A:719:ASP:N	2.26	0.49
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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:530:MET:CE	4:9:354:GLN:HG3	2.35	0.49
1:D:642:LYS:HA	4:9:22:ALA:C	2.33	0.49
1:D:675:ILE:CG2	1:D:676:ILE:N	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:B:130:PRO:O	2:B:131:GLU:C	2.52	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:530:MET:HE3	4:9:354:GLN:CB	2.42	0.48
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	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
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.48
1:S:51:THR:C	1:S:62:VAL:HG13	2.32	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: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:103:LEU:C	1:D:103:LEU:HD12	2.33	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:769:ALA:CA	1:D:774:LEU:HB2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:163:ALA:O	2:K:21:GLU:C	2.49	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:793:ARG:NH1	3:U:40:ASN:CG	2.55	0.48
1:S:839:MLY:HB2	1:S:840:PRO:HD3	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:A:642:LYS:HG2	4:8:21:PHE:C	2.30	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
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
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:756:THR:O	1:M:758:TYR:N	2.45	0.48
3:O:50:LEU:O	3:O:55:LYS:HB2	2.13	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.48
1:J:567:LYS:HZ3	4:Y:92:ASN:HD21	1.59	0.48
1:J:723:ARG:HH11	1:J:723:ARG:HG3	1.79	0.48
1:J:820:VAL:HG13	2:K:136:MET:CE	2.40	0.48
1:M:51:THR:C	1:M:62:VAL:HG13	2.33	0.48
1:M:103:LEU:HD12	1:M:103:LEU:C	2.33	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:499:GLU:OE1	1:S:499:GLU:HA	2.13	0.48
1:S:720:PHE:CD2	1:S:744:SER:HB3	2.48	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:765:VAL:CG1	1:A:766:PHE:N	2.77	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:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.48
2:K:130:PRO:O	2:K:131:GLU:C	2.52	0.48
1:M:64:THR:CG2	1:M:65:GLU:N	2.75	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:8:288: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
1:A:505:MLY:CG	1:A:741:LYS:NZ	2.59	0.48
1:A:642:LYS:HA	4:8:22:ALA:C	2.33	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:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.48
1:G:248:MLY:HE2	1:G:250:ILE:HD11	1.95	0.48
1:G:292:MET:HE1	1:G:309:PRO:HD3	1.96	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:93:MET:HE3	1:J:716:LEU:HD12	1.93	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: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:292:MET:HE1	1:S:309:PRO:HD3	1.96	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:787:ILE:CG2	1:G:788:THR:N	2.77	0.48
1:G:789:ALA:CB	3:I:81:GLN:CD	2.82	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
1:M:410:ASN:HA	4:Z:334:GLU:HB3	1.29	0.48
1:M:499:GLU:HA	1:M:499:GLU:OE1	2.13	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:A:295:MLY:HG3	1:A:332:MET:HE2	1.92	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
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.48
1:G:530:MET:HA	4:V:354:GLN:CD	2.11	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:J:819:ASN:OD1	2:K:91:ALA:C	2.51	0.48
1:M:406:VAL:CG1	1:M:407:GLY:N	2.77	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
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.95	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:214:MET:C	1:A:340:ILE:CD1	2.82	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:409:GLY:N	1:G:636:LYS:CD	2.71	0.48
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.48
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.48
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:M:800:ARG:HH22	3:O:40:ASN:CG	2.17	0.48
1:M:838:ILE:C	1:M:840:PRO:HD2	2.35	0.48
1:S:41:VAL:CG1	1:S:42:HIS:N	2.76	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:530:MET:HE3	4:2:354:GLN:CB	2.43	0.48
1:S:546:THR:CG2	1:S:547:ASP:N	2.77	0.48
1:S:838:ILE:C	1:S:840:PRO:HD2	2.34	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: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:546:THR:CG2	1:D:547:ASP:N	2.77	0.48
1:G:795:ARG:N	3:I:118:MET:HE3	2.29	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:S:97:LEU:HD13	1:S:97:LEU:N	2.28	0.48
1:S:295:MLY:HG3	1:S:332:MET:HE2	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:291:LYS:CG	4:Z:243:PRO:C	2.74	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: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: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:838:ILE:C	1:G:840:PRO:HD2	2.34	0.47
1:J:51:THR:C	1:J:62:VAL:HG13	2.32	0.47
1:J:530:MET:HE3	4:W:354:GLN:CB	2.43	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:J:830:PRO:HB3	2:K:67:MET:CE	2.42	0.47
1:J:838:ILE:C	1:J:840:PRO:HD2	2.35	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:538:GLU:OE1	4:Z:355:MET:HE3	2.14	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: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
1:S:770:GLY:O	1:S:771:LEU:C	2.44	0.47
2:T:130:PRO:O	2:T:131:GLU:C	2.52	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:642:LYS:HB2	4:8:24:ASP:O	1.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:214:MET:C	1:G:340:ILE:CD1	2.82	0.47
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.47
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:214:MET:C	1:M:340:ILE:CD1	2.82	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: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:640:LYS:HD2	1:A:646:PHE:O	2.14	0.47
1:A:838:ILE:C	1:A:840:PRO:HD2	2.35	0.47
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.47
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	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:765:VAL:CG1	1:G:766:PHE:N	2.77	0.47
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:406:VAL:CG1	1:J:407:GLY: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
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: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:CA	4:2:24:ASP:OD1	2.61	0.47
1:S:725:ARG:NE	1:S:733:PRO:CB	1.95	0.47
4:6:250: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:636:LYS:O	4:V:144:ALA:HB1	2.14	0.47
1:G:820:VAL:CG1	2:H:136:MET:HE1	2.45	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:93:MET:HE2	1:M:764:MLY:CH1	2.45	0.47
1:M:169:ASP:OD1	1:M:169:ASP:N	2.44	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
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)
4:8:198: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:795:ARG:HD2	3:L:43:ASN:H	1.80	0.47
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.49	0.47
2:K:139:ALA:C	2:K:141:PRO:HD3	2.33	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
2:N:112:ILE:CG2	2:N:147:ASN:O	2.62	0.47
1:S:251:ARG:HB2	1:S:264:ASP:HB3	1.95	0.47
1:S:409:GLY:N	1:S:636:LYS:CD	2.70	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:W:325:MET:CE	4:Y:244:ASP:OD2	2.34	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:530:MET:CE	4:8:354:GLN:HG3	2.35	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: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:214:MET:C	1:J:340:ILE:CD1	2.82	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: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
4:3:162: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
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.95	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:599:ASN:CG	1:G:649:VAL:CB	2.80	0.47
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.24	0.47
1:G:817:GLN:CD	2:H:127:ARG:CB	2.81	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:629:GLU:CA	1:M:643:GLY:C	2.73	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:214:MET:C	1:S:340:ILE:CD1	2.82	0.47
1:S:727:LEU:HD22	1:S:783:LEU:HD22	1.96	0.47
4:2:244:ASP:HA	4:Z:324:THR:O	2.09	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
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.96	0.47
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.47
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	1.96	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: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
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.47
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.47
1:J:84:MLY:CH1	1:J:715:VAL:HG21	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:292:MET:HE1	1:M:309:PRO:HD3	1.97	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:804:ARG:C	1:M:808:GLU:H	2.09	0.47
1:S:107:MLY:CB	1:S:686:MET:HE2	2.39	0.47
4:2:287:ILE:CD1	4:4:203:THR:HB	2.44	0.47
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.96	0.47
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.47
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.96	0.47
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.47
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.95	0.47
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.47
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.47
1:A: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:HG2	1:A:689:GLU:O	2.14	0.47
2:B:139:ALA:C	2:B:141:PRO:HD3	2.33	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:640:LYS:C	4:W:23:GLY:C	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:6:253:GLU:HA	4:6:256:ARG:CG	2.42	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: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:G:556:ASP:OD1	4:X:47:MET:CE	2.27	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:530:MET:HE3	4:Z:355:MET:SD	2.54	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
2:N:130:PRO:O	2:N:131:GLU:C	2.52	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
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:214:MET:C	1:D:340:ILE:CD1	2.82	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:640:LYS:C	4:9:23:GLY:C	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:540:CYS:N	4:W:349:LEU:HD11	2.31	0.46
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
4:6:299:MET:HE2	4:6:331:ALA:HB2	1.96	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:A:769:ALA:C	1:A:772:LEU:H	2.19	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:G:795:ARG:N	3:I:118:MET:HE1	2.28	0.46
1:J:642:LYS:HA	4:W:21:PHE:C	2.36	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
2:T:140:PHE:O	2:T:141:PRO:C	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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:134:VAL:C	1:D:136:ASN:H	2.16	0.46
1:D:519:LEU:N	1:D:519:LEU:CD1	2.77	0.46
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	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: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:797:PHE:CE2	3:O:146:ILE:CD1	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:S:818:TYR:C	2:T:90:GLY:HA3	2.35	0.46
4:3:6:THR:HG22	4:3:101:HIS:HA	1.97	0.46
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.97	0.46
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.97	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: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: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:292:MET:HE1	1:J:309:PRO:CG	2.46	0.46
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.46
1:J:448:GLN:C	1:J:450:ASP:H	2.19	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:805:ALA:O	1:M:807:VAL:N	2.44	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
1:S:770:GLY:C	1:S:771:LEU:HA	2.32	0.46
3:U:52:ASN:CB	3:U:53:PRO:HD3	2.28	0.46
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:M:564:ASN:HD22	1:M:582:VAL:HB	1.79	0.46
1:M:642:LYS:HA	4:Z:21:PHE:C	2.36	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:746:LYS:HZ1	3:U:96:LYS:CA	2.13	0.46
1:S:805:ALA:CA	1:S:807:VAL:N	2.78	0.46
1:S:820:VAL:CG1	2:T:136:MET:HE3	2.30	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: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: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:817:GLN:CD	2:H:127:ARG:CG	2.84	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:817:GLN:OE1	2:N:127:ARG:HD2	2.16	0.46
1:M:821:ARG:HH22	2:N:127:ARG:HE	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:642:LYS:HA	4:2:21:PHE:C	2.35	0.46
1:S:783:LEU:N	1:S:783:LEU:CD1	2.78	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: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:292:MET:CE	1:A:309:PRO:HA	2.39	0.46
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.46
1:A:629:GLU:HG2	1:A:643:GLY:C	2.35	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.78	0.46
1:D:289:TYR:OH	1:D:315:VAL:O	2.27	0.46
1:D:292:MET:HE3	1:D:309:PRO:CA	2.43	0.46
2:E:139:ALA:C	2:E:141:PRO:HD3	2.33	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: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
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.97	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: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:538:GLU:OE1	4:V:355:MET:HE3	2.15	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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: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: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:J:89:GLU:CD	1:J:153:PRO:HD2	2.36	0.46
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.46
1:J:641:LYS:CD	1:J:647:GLN:CG	2.72	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:89:GLU:CD	1:S:153:PRO:HD2	2.36	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:4:322:PRO:C	4:6:244:ASP:HB2	2.37	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
1:A:506:GLU:OE2	1:A:717:TYR:OH	2.33	0.45
1:A:795:ARG:CG	3:C:118:MET:HE1	2.46	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: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:292:MET:HE1	1:J:309:PRO:HD3	1.97	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: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:292:MET:HE1	1:M:309:PRO:CG	2.46	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:795:ARG:HG3	3:U:118:MET:HE2	1.82	0.45
1:S:831:TRP:CZ3	2:T:34:ILE:HD13	2.41	0.45
2:T:139:ALA:C	2:T:141:PRO:HD3	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:640:LYS:C	4:8:23:GLY:C	2.74	0.45
1:A:642:LYS:HA	4:8:21:PHE:C	2.36	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
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	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: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:505:MLY:HB2	1:A:761:GLY:C	2.36	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
2:B:149:ASP:CG	2:B:150:TYR:N	2.49	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:448:GLN:C	1:D:450:ASP:H	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	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:448:GLN:C	1:S:450:ASP:H	2.19	0.45
1:S:449:LEU:HA	1:S:449:LEU:HD12	1.60	0.45
1:S:791:GLN:CD	3:U:115:GLY:HA3	2.32	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
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.99	0.45
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.45
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.45
1:A:448:GLN:C	1:A:450:ASP:H	2.19	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
4:3:322:PRO:C	4:5:244:ASP:HB2	2.37	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:89:GLU:CD	1:D:153:PRO:HD2	2.36	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
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:640:LYS:C	4:Z:23:GLY:C	2.74	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:486:MLY:HH22	1:S:527:GLU:CD	2.37	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
4:8:366: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:629:GLU:HG2	1:D:643:GLY:C	2.35	0.45
1:D:724:TYR:CB	1:D:782:MLY:HD2	2.12	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:725:ARG:C	1:D:782:MLY:HH22	2.37	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
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	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: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
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: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: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:486:MLY:HH22	1:D:527:GLU:CD	2.37	0.45
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
1:G:448:GLN:C	1:G:450:ASP:H	2.19	0.45
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.45
1:G:629:GLU:HG2	1:G:643:GLY:C	2.35	0.45
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:556:ASP:OD1	4:Y:47:MET:CE	2.27	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:791:GLN:HE22	3:U:114:LEU:C	2.20	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
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:89:GLU:CD	1:A:153:PRO:HD2	2.37	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:540:CYS:C	4:8:349:LEU:HD21	2.36	0.45
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	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:G:642:LYS:HA	4:V:21:PHE:C	2.36	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:M:486:MLY:HH22	1:M:527:GLU:CD	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:296:MLY:O	1:J:299:LEU:HB2	2.17	0.45
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.45
1:J:725:ARG:CG	1:J:733:PRO:CA	2.95	0.45
1:J:756:THR:CG2	1:J:776:GLU:C	2.70	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
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:M:747:LEU:C	1:M:749:GLY:H	2.20	0.45
2:N:139:ALA:C	2:N:141:PRO:HD3	2.33	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:549:SER:N	4:4:47:MET:O	2.50	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
1:S:804:ARG:C	1:S:807:VAL:CA	2.85	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:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.99	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:538:GLU:OE1	4:8:355:MET:HE3	2.16	0.45
1:A:599:ASN:CG	1:A:649:VAL:CB	2.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:747:LEU:C	1:G:749:GLY:H	2.20	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
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:629:GLU:HG2	1:M:643:GLY:C	2.35	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: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
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:411:GLU:H	4:V:333:PRO:CB	2.29	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:448:GLN:C	1:M:450:ASP:H	2.19	0.44
1:M:530:MET:HA	4:Z:354:GLN:CD	2.11	0.44
1:M:540:CYS:C	4:Z:349:LEU:HD21	2.36	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:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	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: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:292:MET:HE1	1:G:309:PRO:CG	2.47	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:486:MLY:HH22	1:G:527:GLU:CD	2.37	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:G:829:TRP:CH2	2:H:83:MET:CE	3.01	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	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:89:GLU:CD	1:M:153:PRO:HD2	2.37	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:224:SER:O	1:S:227:PRO:HD2	2.17	0.44
1:S:320:ILE:O	1:S:320:ILE:HG22	2.18	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:629:GLU:HG2	1:S:643:GLY:C	2.35	0.44
1:S:640:LYS:C	4:2:23:GLY:C	2.74	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:747:LEU:C	1:S:749:GLY:H	2.20	0.44
1:S:793:ARG:HD3	3:U:40:ASN:CG	2.37	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: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:540:CYS:C	4:9:349:LEU:HD21	2.36	0.44
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.44
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.44
1:D: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.18	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:320:ILE:O	1:A:320:ILE:HG22	2.18	0.44
1:A:354:LEU:HD12	1:A:354:LEU:HA	1.55	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
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:G:530:MET:CB	4:V:354:GLN:CB	2.96	0.44
1:G:640:LYS:C	4:V:23:GLY:C	2.75	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:791:GLN:NE2	3:L:115:GLY:C	2.69	0.44
1:J:817:GLN:HB3	2:K:127:ARG:CZ	2.48	0.44
3:L:48:LYS:HD3	3:L:48:LYS:HA	1.17	0.44
1:M:99:GLU:N	1:M:100:PRO:CD	2.80	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: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
4:1:299:MET:HE2	4:1:331:ALA:HB2	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:486:MLY:HH22	1:A:527:GLU:CD	2.37	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
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: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
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: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
4:6:32:PRO:HB2	4:6:34:ILE:HD11	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:E:140:PHE:O	2:E:141:PRO:C	2.33	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:747:LEU:C	1:J:749:GLY:H	2.20	0.44
1:J:835:PHE:O	1:J:839:MLY:N	2.49	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:295:MLY:HG3	1:M:332:MET:HE2	1.97	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:292:MET:HE1	1:S:309:PRO:CG	2.47	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:C	1:S:749:GLY:N	2.71	0.44
1:S:829:TRP:O	1:S:832:MET:N	2.50	0.44
3:U:101:THR:HA	3:U:137:ILE:O	2.18	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:530:MET:HE3	4:8:354:GLN:CG	2.37	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:A:747:LEU:C	1:A:749:GLY:N	2.71	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:476:GLU:CD	1:J:476:GLU:H	2.21	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:91:MET:CE	1:S:119:SER:HB2	2.48	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
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: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:476:GLU:H	1:D:476:GLU:CD	2.22	0.44
1:D:485:GLU:OE2	1:D:584:TYR:N	2.50	0.44
1:D:799:MET:HE1	3:F:32:ASP:CB	2.28	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:785:GLU:C	1:M:787:ILE:N	2.71	0.44
3:O:50:LEU:O	3:O:53:PRO:HG2	2.18	0.44
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:746:LYS:C	3:U:93:VAL:HG13	2.37	0.44
3:U:50:LEU:O	3:U:53:PRO:HG2	2.18	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:774:LEU:HD23	1:A:778:MET:HE3	2.00	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:292:MET:HE1	1:D:309:PRO:CG	2.48	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.48	0.43
1:D:747:LEU:C	1:D:749:GLY:N	2.71	0.43
2:E:149:ASP:OD2	2:E:150:TYR:CA	2.64	0.43
1:G:91:MET:CE	1:G:119:SER:HB2	2.48	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.00	0.43
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.43
1:J:166:MET:CE	1:J:254:PHE:CD2	3.01	0.43
1:J:725:ARG:CG	1:J:733:PRO:HA	2.43	0.43
1:J:839:MLY:NZ	2:K:158:THR:HG22	2.33	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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
4:5:193: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
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
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: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:93:MET:HE2	1:J:764:MLY:HD3	2.00	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
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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:315:LYS:HD2	4:2:315:LYS:HA	1.92	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: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:549:SER:C	4:V:45:VAL:O	2.56	0.43
1:A:643:GLY:CA	4:8:24:ASP:OD1	2.62	0.43
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	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: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
1:M:309:PRO:C	1:M:311:ASP:H	2.22	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:549:SER:C	4:2:45:VAL:O	2.56	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
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: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
4:9:193: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:X:324:THR:O	4:Z:245:GLY:C	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:155:ILE:HG22	1:D:156:PHE:N	2.33	0.43
1:D:166:MET:CE	1:D:254:PHE:HB2	2.46	0.43
1:D:292:MET:CE	1:D:309:PRO:CA	2.97	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
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.43
1:G:175:ILE:C	1:G:176:LEU:HD12	2.38	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
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:292:MET:CE	1:J:309:PRO:CA	2.97	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
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:134:VAL:C	1:M:136:ASN:H	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:226:ASN:N	1:S:227:PRO:HD2	2.32	0.43
1:S:443:ILE:HG22	1:S:444:ARG:N	2.29	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: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
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.43
1:G:201:ALA:O	1:G:202:SER:OG	2.36	0.43
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	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
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.43
1:J:747:LEU:C	1:J:749:GLY:N	2.71	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:292:MET:CE	1:M:309:PRO:CA	2.97	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
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
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:309:PRO:C	1:A:311:ASP:H	2.22	0.43
1:A:747:LEU:C	1:A:749:GLY:H	2.20	0.43
3:C:122:GLU:HA	3:C:125:GLU:OE1	2.18	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: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:292:MET:CE	1:G:309:PRO:CA	2.97	0.43
1:G:295:MLY:HG3	1:G:332:MET:HE2	1.97	0.43
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.43
1:G:543:PRO:CD	4:V:143:TYR:O	2.64	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
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: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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:ILE:C	1:A:176:LEU:HD12	2.38	0.43
1:A:308:ASN:HA	1:A:309:PRO:HD2	1.88	0.43
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	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:639:GLY:CA	4:V:344:SER:O	2.40	0.43
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.43
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	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:689:GLU:HA	1:M:692:LEU:HB2	2.00	0.43
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:292:MET:CE	1:S:309:PRO:CA	2.97	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:292:MET:CE	1:A:309:PRO:CA	2.97	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.43
1:D:549:SER:C	4:W:45:VAL:O	2.57	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
1:G:747:LEU:C	1:G:749:GLY:N	2.71	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:175:ILE:C	1:J:176:LEU:HD12	2.39	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:246:PHE:HB3	1:M:270:LEU:HD12	2.01	0.43
1:S:214:MET:CA	1:S:340:ILE:HD11	2.45	0.43
1:S:411:GLU:H	4:2:333:PRO:CB	2.30	0.43
1:S:476:GLU:CD	1:S:476:GLU:H	2.21	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
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: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:402:CYS:C	1:D:404:PRO:HD3	2.40	0.43
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:93:MET:CE	1:J:764:MLY:HD3	2.48	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: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:692:LEU:O	1:M:696:ARG:HG3	2.18	0.43
1:S:17:LEU:HD12	1:S:17:LEU:HA	1.67	0.43
1:S:134:VAL:C	1:S:136:ASN:H	2.16	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
4:6:217:CYS:C	4:6:218:TYR:HD1	2.23	0.43
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.43
4:8:205:GLU:O	4:8:208:ILE:HG22	2.18	0.43
1:A:93:MET:CE	1:A:715:VAL:CG1	2.84	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:550:PHE:C	4:V:46:GLY:CA	2.87	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:175:ILE:C	1:D:176:LEU:HD12	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.43
1:G:166:MET:CE	1:G:254:PHE:CD2	3.01	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:642:LYS:HB2	4:V:24:ASP:O	1.89	0.43
1:G:799:MET:SD	3:I:32:ASP:CG	2.97	0.43
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.43
1:J:91:MET:CE	1:J:119:SER:HB2	2.48	0.43
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.43
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.43
1:J:402:CYS:C	1:J:404:PRO:HD3	2.40	0.43
1:J:675:ILE:HG23	1:J:676:ILE:N	2.33	0.43
1:M:40:VAL:HG23	1:M:76:GLN:O	2.19	0.43
1:M:476:GLU:CD	1:M:476:GLU:H	2.22	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:747:LEU:C	1:M:749:GLY:N	2.71	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
1:S:536:LEU:HD12	1:S:536:LEU:HA	1.69	0.43
1:S:639:GLY:CA	4:2:344:SER:O	2.39	0.43
4:2:110:LEU:C	4:3:195:GLU:HG3	2.37	0.43
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	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:530:MET:HE3	4:8:354:GLN:CB	2.49	0.42
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	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:642:LYS:HB3	4:9:24:ASP:HB2	1.37	0.42
1:D:713:SER:O	1:D:771:LEU:HD21	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:796:GLY:HA2	3:I:35:ARG:NE	2.31	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:538:GLU:OE1	4:W:355:MET:HE3	2.18	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: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
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:795:ARG:HE	3:U:118:MET:HE2	1.83	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
4:4:217:CYS:C	4:4:218:TYR:HD1	2.22	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: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:541:MET:CE	4:8:346:LEU:HD12	2.48	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:62:VAL:HG12	1:D:63:MLY:N	2.35	0.42
1:D:409:GLY:N	1:D:636:LYS:CD	2.71	0.42
1:D:480:ILE:CG2	1:D:481:ASN:N	2.74	0.42
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:134:VAL:C	1:G:136:ASN:H	2.16	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:320:ILE:O	1:G:320:ILE:HG22	2.18	0.42
1:G:443:ILE:HG22	1:G:444:ARG:N	2.29	0.42
1:G:476:GLU:H	1:G:476:GLU:CD	2.22	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: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:S:14:ALA:N	1:S:15:PRO:CD	2.81	0.42
1:S:148:ARG:HE	1:S:763:THR:HG21	1.84	0.42
1:S:175:ILE:C	1:S:176:LEU:HD12	2.39	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: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
4:3:217:CYS:C	4:3:218:TYR:HD1	2.22	0.42
4:4:149:THR:HA	4:4:165:ILE:O	2.19	0.42
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.42
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.20	0.42
1:A:166:MET:CE	1:A:254:PHE:HB2	2.46	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:A:797:PHE:CD1	3:C:146:ILE:C	2.87	0.42
1:D:136:ASN:HA	1:D:137:PRO:HD3	1.50	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:402:CYS:C	1:G:404:PRO:HD3	2.40	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: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
1:M:639:GLY:CA	4:Z:344:SER:O	2.39	0.42
1:M:804:ARG:C	1:M:807:VAL:HB	2.40	0.42
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: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: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
4:8:217:CYS:C	4:8:218:TYR:HD1	2.23	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: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: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:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:SER:HA	1:D:460:GLY:O	2.20	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: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
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	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:93:MET:HE2	1:S:764:MLY:HD3	1.91	0.42
1:S:295:MLY:CE	1:S:332:MET:CE	2.97	0.42
1:S:309:PRO:C	1:S:311:ASP:H	2.22	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
4:1:217:CYS:C	4:1:218:TYR:HD1	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.23	0.42
1:A:402:CYS:C	1:A:404:PRO:HD3	2.40	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:A:800:ARG:HD3	3:C:149:VAL:C	2.30	0.42
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.42
1:D:322:VAL:HA	1:D:323:PRO:HD3	1.87	0.42
1:D:541:MET:CE	4:9:346:LEU:HD12	2.48	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
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	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:175:ILE:C	1:M:176:LEU:HD12	2.39	0.42
1:M:195:TYR:CD2	1:M:199:ILE:HD13	2.54	0.42
1:M:295:MLY:CG	1:M:332:MET:HE1	2.49	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:546:THR:HG1	4:4:47:MET:N	2.18	0.42
1:S:751:GLY:HA3	1:S:779:ARG:HH22	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:309:PRO:C	1:J:311:ASP:H	2.22	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:735:GLY:HA3	1:J:743:ALA:HA	2.01	0.42
1:J:817:GLN:CD	2:K:127:ARG:HG3	2.40	0.42
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: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
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
4:2:217:CYS:C	4:2:218:TYR:HD1	2.23	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:V:217:CYS:C	4:V:218:TYR:HD1	2.22	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:476:GLU:H	1:A:476:GLU:CD	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.67	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:643:GLY:N	4:Z:23:GLY:C	2.55	0.42
1:M:747:LEU:O	1:M:749:GLY:N	2.53	0.42
1:M:805:ALA:O	1:M:807:VAL:C	2.58	0.42
1:M:818:TYR:N	2:N:127:ARG:HH11	2.18	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:643:GLY:N	4:2:23:GLY:C	2.55	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
4:9:217:CYS:C	4:9:218:TYR:HD1	2.23	0.42
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.42
4:W:217:CYS:C	4:W:218:TYR:HD1	2.23	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: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:D:818:TYR:HB3	2:E:90:GLY:C	2.26	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:673:ARG:HD2	1:G:673:ARG:HA	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:643:GLY:CA	4:W:24:ASP:OD1	2.61	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:842:LEU:N	1:J:842:LEU:CD1	2.83	0.42
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:320:ILE:O	1:M:320:ILE:HG22	2.18	0.42
1:M:402:CYS:C	1:M:404:PRO:HD3	2.40	0.42
1:M:744:SER:O	1:M:748:LEU:HD12	2.20	0.42
1:M:800:ARG:HD2	3:O:149:VAL:C	2.40	0.42
1:S:62:VAL:O	1:S:69:THR:HA	2.20	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.42
1:M:91:MET:CE	1:M:119:SER:HB2	2.48	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:541:MET:CE	4:Z:346:LEU:HD12	2.47	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
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: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: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: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:295:MLY:CG	1:J:332:MET:CE	2.96	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
2:K:149:ASP:CG	2:K:150:TYR:N	2.49	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:540:CYS:C	4:2:349:LEU:HD21	2.36	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
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
4:5:217:CYS:C	4:5:218:TYR:HD1	2.23	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: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: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
1:A:795:ARG:HE	3:C:118:MET:HE1	1.85	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:838:ILE:HD13	2:E:54:MET:HE3	2.01	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: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:84:MLY:HD3	1:M:723:ARG:HD2	2.02	0.41
1:M:107:MLY:N	1:M:686:MET:HE1	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
4:9:222: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:136:ASN:O	1:A:138:MLY:N	2.54	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: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:335:ASP:O	1:G:338:ILE:HB	2.20	0.41
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	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:107:MLY:CB	1:J:686:MET:HE2	2.39	0.41
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.41
1:J:541:MET:CG	4:W:345:ILE:C	2.87	0.41
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.41
1:J:830:PRO:CB	2:K:67:MET:CE	2.98	0.41
1:M:166:MET:CE	1:M:254:PHE:CD2	3.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:533:PHE:HD1	1:M:533:PHE:HA	1.79	0.41
1:M:550:PHE:C	4:2:46:GLY:CA	2.88	0.41
1:M:739:ASP:OD1	1:M:739:ASP:C	2.58	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:629:GLU:CA	1:S:643:GLY:C	2.73	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:X:217:CYS:C	4:X:218:TYR:HD1	2.23	0.41
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	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:443:ILE:HG22	1:A:444:ARG:N	2.29	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:320:ILE:O	1:D:320:ILE:CG2	2.68	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: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:295:MLY:CD	1:J:332:MET:HE2	2.50	0.41
1:J:464:ILE:HD13	1:J:464:ILE:HG21	1.69	0.41
1:M:63:MLY:HH23	1:M:63:MLY:HD3	1.76	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: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: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
4:7:217:CYS:C	4:7:218:TYR:HD1	2.23	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: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:640:LYS:C	1:G:645:SER:HG	2.14	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:93:MET:CE	1:S:764:MLY:CG	2.85	0.41
1:S:204:GLU:N	1:S:207:LYS:HE3	2.23	0.41
1:S:210:GLN:C	1:S:211:SER:HG	2.16	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: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: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:91:MET:CE	1:A:119:SER:HB2	2.48	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.41
1:A:747:LEU:O	1:A:749:GLY:N	2.52	0.41
1:D:449:LEU:N	1:D:449:LEU:CD1	2.82	0.41
1:D:550:PHE:C	4:W:46:GLY:CA	2.88	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.41
1:J:812:SER:O	1:J:816:ILE:HG13	2.21	0.41
1:J:819:ASN:HA	2:K:90:GLY:C	2.20	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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: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: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:812:SER:O	1:S:816:ILE:HG13	2.21	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
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:356:GLY:HA2	1:M:359:MET:HG3	2.02	0.41
1:S:402:CYS:C	1:S:404:PRO:HD3	2.40	0.41
1:S:541:MET:CE	4:2:346:LEU:HD12	2.47	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
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
4:5:222: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:49:MLY:HH23	1:A:80:MET:CE	2.51	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:295:MLY:CD	1:A:332:MET:HE2	2.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:665:ARG:C	1:A:667:THR:N	2.74	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: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: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: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
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:166:MET:CE	1:S:254:PHE:CD2	3.01	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
4:1:324:THR:CB	4:3:244:ASP:HA	2.51	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	0.41
1:A: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: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
1:D:295:MLY:CD	1:D:332:MET:HE2	2.51	0.41
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.41
1:D:533:PHE:O	1:D:537:GLU:N	2.49	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: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:818:TYR:CB	2:E:90:GLY:C	2.80	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:295:MLY:CG	1:G:332:MET:HE1	2.49	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:530:MET:HE3	4:V:354:GLN:CB	2.51	0.41
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	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:166:MET:CE	1:J:254:PHE:HB2	2.47	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:692:LEU:HD23	1:J:692:LEU:HA	1.85	0.41
1:J:739:ASP:OD1	1:J:739:ASP:C	2.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:775:LEU:HA	1:J:775:LEU:HD12	1.71	0.41
1:J:830:PRO:CB	2:K:67:MET:HE1	2.51	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
1:M:217:THR:CA	1:M:221:GLN:HE21	2.33	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:724:TYR:HB3	1:M:727:LEU:CD1	2.48	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: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: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:629:GLU:CA	1:A:643:GLY:C	2.73	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:49:MLY:HH23	1:D:80:MET:CE	2.51	0.41
1:D:724:TYR:CB	1:D:782:MLY:NZ	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.41
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:629:GLU:HB3	1:G:643:GLY:C	2.41	0.41
1:G:643:GLY:N	4:V:23:GLY:C	2.55	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:629:GLU:HB3	1:J:643:GLY:C	2.42	0.41
1:J:642:LYS:HE2	4:W:344:SER:HA	1.56	0.41
1:J:710:GLY:O	1:J:772:LEU:HD22	2.14	0.41
1:M:25:ILE:HG23	1:M:29:ASN:HD22	1.85	0.41
1:M:166:MET:CE	1:M:254:PHE:HB2	2.47	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:217:THR:CA	1:J:221:GLN:HE21	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: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:49:MLY:HH23	1:S:80:MET:CE	2.51	0.40
1:S:172:ASN:OD1	1:S:457:TYR:HA	2.21	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: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
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:568:PRO:CG	1:A:578:HIS:N	2.84	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:172:ASN:OD1	1:D:457:TYR:HA	2.21	0.40
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:530:MET:HE3	4:V:354:GLN:CG	2.39	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:49:MLY:HH23	1:J:80:MET:CE	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:M:665:ARG:C	1:M:667:THR:N	2.74	0.40
1:S:295:MLY:CD	1:S:332:MET:HE2	2.51	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: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
4:8:288: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
1:A:166:MET:CE	1:A:254:PHE:CD2	3.01	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: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:629:GLU:HB3	1:D:643:GLY:C	2.41	0.40
1:D:659:MLY:HH22	1:D:659:MLY:HD2	1.42	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
1:G:553:MLY:HA	4:X:45:VAL:O	2.21	0.40
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.40
1:J:320:ILE:O	1:J:320:ILE:CG2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:829:TRP:HH2	2:K:83:MET:HE3	1.86	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:88:ILE:HG22	1:S:90:ASP:C	2.42	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:88:ILE:HG22	1:D:90:ASP:C	2.42	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
1:D:739:ASP:OD1	1:D:739:ASP:C	2.58	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:305:ILE:HG22	1:G:312:TYR:OH	2.22	0.40
1:G:599:ASN:OD1	1:G:649:VAL:C	2.60	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
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:789:ALA:CB	3:L:81:GLN:CD	2.90	0.40
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.03	0.40
1:M:107:MLY:CA	1:M:686:MET:HE1	2.52	0.40
1:M:174:SER:HA	1:M:460:GLY:O	2.20	0.40
1:M:292:MET:HE3	1:M:309:PRO:CA	2.50	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:786:ILE:C	1:S:789:ALA:N	2.47	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: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: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
3:F:25:ILE:O	3:F:63:ILE:CB	2.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:49:MLY:HH23	1:G:80:MET:CE	2.51	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:M:49:MLY:HH23	1:M:80:MET:CE	2.51	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: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: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%)	4	26
1	D	789/840 (94%)	651 (82%)	112 (14%)	26 (3%)	4	26
1	G	791/840 (94%)	652 (82%)	112 (14%)	27 (3%)	3	26
1	J	791/840 (94%)	652 (82%)	112 (14%)	27 (3%)	3	26
1	M	787/840 (94%)	649 (82%)	112 (14%)	26 (3%)	4	26
1	S	785/840 (94%)	648 (82%)	110 (14%)	27 (3%)	3	26
2	B	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	E	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	H	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	K	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	N	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
2	T	143/145 (99%)	126 (88%)	9 (6%)	8 (6%)	2	19
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%)	9	44
4	2	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	3	370/375 (99%)	333 (90%)	31 (8%)	6 (2%)	9	44
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	5	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	6	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	7	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	8	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	9	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	V	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	W	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	X	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	Y	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44
4	Z	370/375 (99%)	335 (90%)	29 (8%)	6 (2%)	9	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	11628/12042 (97%)	10139 (87%)	1198 (10%)	291 (2%)	9	32

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%)	512 (76%)	160 (24%)	0	4
1	D	672/672 (100%)	513 (76%)	159 (24%)	1	4
1	G	672/672 (100%)	513 (76%)	159 (24%)	1	4
1	J	672/672 (100%)	515 (77%)	157 (23%)	1	4
1	M	672/672 (100%)	514 (76%)	158 (24%)	1	4
1	S	672/672 (100%)	515 (77%)	157 (23%)	1	4
2	B	120/120 (100%)	119 (99%)	1 (1%)	81	89
2	E	120/120 (100%)	119 (99%)	1 (1%)	81	89
2	H	120/120 (100%)	119 (99%)	1 (1%)	81	89
2	K	120/120 (100%)	119 (99%)	1 (1%)	81	89
2	N	120/120 (100%)	119 (99%)	1 (1%)	81	89
2	T	120/120 (100%)	119 (99%)	1 (1%)	81	89
3	C	117/117 (100%)	112 (96%)	5 (4%)	29	53
3	F	117/117 (100%)	112 (96%)	5 (4%)	29	53
3	I	117/117 (100%)	112 (96%)	5 (4%)	29	53
3	L	117/117 (100%)	112 (96%)	5 (4%)	29	53
3	O	117/117 (100%)	112 (96%)	5 (4%)	29	53
3	U	117/117 (100%)	112 (96%)	5 (4%)	29	53
4	1	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	2	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	3	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	4	315/318 (99%)	268 (85%)	47 (15%)	3	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	5	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	6	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	7	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	8	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	9	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	V	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	W	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	X	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	Y	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	Z	315/318 (99%)	268 (85%)	47 (15%)	3	15
All	All	9864/9906 (100%)	8227 (83%)	1637 (17%)	5	12

All (1637) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	ASP
1	A	7	MET
1	A	12	GLU
1	A	15	PRO
1	A	17	LEU
1	A	20	SER
1	A	22	LYS
1	A	36	SER
1	A	37	SER
1	A	46	SER
1	A	61	THR
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	97	LEU
1	A	106	LEU
1	A	109	ARG
1	A	114	MET
1	A	117	THR
1	A	121	LEU

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Mol	Chain	Res	Type
1	A	126	VAL
1	A	127	ASN
1	A	135	TYR
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	165	PHE
1	A	167	LEU
1	A	169	ASP
1	A	173	GLN
1	A	178	THR
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	227	PRO
1	A	229	LEU
1	A	244	SER
1	A	245	ARG
1	A	251	ARG
1	A	264	ASP
1	A	273	SER
1	A	274	ARG
1	A	278	GLN
1	A	282	GLU
1	A	287	ILE
1	A	290	GLN
1	A	294	ASN
1	A	298	GLU

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Mol	Chain	Res	Type
1	A	300	ILE
1	A	325	ILE
1	A	331	LEU
1	A	336	SER
1	A	351	ILE
1	A	354	LEU
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	405	ARG
1	A	410	ASN
1	A	439	LEU
1	A	447	GLN
1	A	448	GLN
1	A	449	LEU
1	A	453	GLN
1	A	455	ARG
1	A	457	TYR
1	A	462	LEU
1	A	471	ASP
1	A	474	SER
1	A	480	ILE
1	A	487	LEU
1	A	495	MET
1	A	499	GLU
1	A	506	GLU
1	A	513	ILE
1	A	518	ASP
1	A	524	GLU
1	A	532	ILE
1	A	534	SER
1	A	537	GLU
1	A	543	PRO
1	A	549	SER
1	A	561	LYS
1	A	562	SER

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Mol	Chain	Res	Type
1	A	563	ASN
1	A	569	LYS
1	A	580	SER
1	A	593	SER
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	701	LEU
1	A	702	GLU
1	A	704	ILE
1	A	708	ARG
1	A	713	SER
1	A	714	ARG
1	A	716	LEU
1	A	719	ASP
1	A	722	GLN
1	A	723	ARG
1	A	727	LEU
1	A	728	ASN
1	A	745	GLU
1	A	752	ASP
1	A	753	VAL
1	A	754	ASP
1	A	762	HIS
1	A	774	LEU
1	A	785	GLU
1	A	787	ILE
1	A	793	ARG

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Mol	Chain	Res	Type
1	A	799	MET
1	A	802	GLU
1	A	804	ARG
1	A	810	ARG
1	A	816	ILE
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	142	PRO
3	C	48	LYS
3	C	68	PHE
3	C	83	THR
3	C	95	ASP
3	C	96	LYS
1	D	4	ASP
1	D	7	MET
1	D	12	GLU
1	D	15	PRO
1	D	17	LEU
1	D	20	SER
1	D	22	LYS
1	D	36	SER
1	D	37	SER
1	D	40	VAL
1	D	46	SER
1	D	61	THR
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	97	LEU
1	D	106	LEU
1	D	109	ARG
1	D	114	MET
1	D	117	THR
1	D	121	LEU
1	D	126	VAL

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Mol	Chain	Res	Type
1	D	127	ASN
1	D	135	TYR
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	165	PHE
1	D	167	LEU
1	D	169	ASP
1	D	173	GLN
1	D	178	THR
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	264	ASP
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	294	ASN
1	D	298	GLU
1	D	300	ILE
1	D	325	ILE

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Mol	Chain	Res	Type
1	D	331	LEU
1	D	336	SER
1	D	351	ILE
1	D	354	LEU
1	D	364	LEU
1	D	365	LYS
1	D	372	GLU
1	D	376	GLU
1	D	381	GLU
1	D	389	LEU
1	D	392	LEU
1	D	394	SER
1	D	399	LYS
1	D	405	ARG
1	D	410	ASN
1	D	439	LEU
1	D	447	GLN
1	D	448	GLN
1	D	449	LEU
1	D	453	GLN
1	D	455	ARG
1	D	457	TYR
1	D	462	LEU
1	D	471	ASP
1	D	474	SER
1	D	480	ILE
1	D	487	LEU
1	D	495	MET
1	D	499	GLU
1	D	506	GLU
1	D	513	ILE
1	D	518	ASP
1	D	524	GLU
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	563	ASN
1	D	569	LYS
1	D	580	SER

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Mol	Chain	Res	Type
1	D	593	SER
1	D	597	GLU
1	D	604	ASN
1	D	608	ILE
1	D	610	LEU
1	D	615	SER
1	D	621	LEU
1	D	625	THR
1	D	664	LEU
1	D	666	SER
1	D	673	ARG
1	D	675	ILE
1	D	676	ILE
1	D	686	MET
1	D	689	GLU
1	D	690	LEU
1	D	693	HIS
1	D	698	ASN
1	D	701	LEU
1	D	702	GLU
1	D	704	ILE
1	D	708	ARG
1	D	713	SER
1	D	714	ARG
1	D	716	LEU
1	D	719	ASP
1	D	722	GLN
1	D	723	ARG
1	D	727	LEU
1	D	728	ASN
1	D	745	GLU
1	D	752	ASP
1	D	753	VAL
1	D	754	ASP
1	D	762	HIS
1	D	774	LEU
1	D	785	GLU
1	D	787	ILE
1	D	793	ARG
1	D	799	MET
1	D	802	GLU
1	D	804	ARG

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Mol	Chain	Res	Type
1	D	810	ARG
1	D	816	ILE
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	142	PRO
3	F	48	LYS
3	F	68	PHE
3	F	83	THR
3	F	95	ASP
3	F	96	LYS
1	G	4	ASP
1	G	7	MET
1	G	12	GLU
1	G	15	PRO
1	G	17	LEU
1	G	20	SER
1	G	22	LYS
1	G	36	SER
1	G	37	SER
1	G	46	SER
1	G	61	THR
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	97	LEU
1	G	106	LEU
1	G	109	ARG
1	G	114	MET
1	G	117	THR
1	G	121	LEU
1	G	126	VAL
1	G	127	ASN
1	G	135	TYR
1	G	136	ASN
1	G	146	LYS

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Mol	Chain	Res	Type
1	G	149	GLN
1	G	155	ILE
1	G	157	SER
1	G	158	ILE
1	G	159	SER
1	G	165	PHE
1	G	167	LEU
1	G	169	ASP
1	G	173	GLN
1	G	178	THR
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	243	SER
1	G	244	SER
1	G	245	ARG
1	G	251	ARG
1	G	264	ASP
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	294	ASN
1	G	298	GLU
1	G	300	ILE
1	G	325	ILE
1	G	331	LEU
1	G	336	SER
1	G	351	ILE

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Mol	Chain	Res	Type
1	G	354	LEU
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	405	ARG
1	G	410	ASN
1	G	439	LEU
1	G	447	GLN
1	G	448	GLN
1	G	449	LEU
1	G	453	GLN
1	G	455	ARG
1	G	457	TYR
1	G	462	LEU
1	G	471	ASP
1	G	474	SER
1	G	480	ILE
1	G	487	LEU
1	G	495	MET
1	G	506	GLU
1	G	513	ILE
1	G	518	ASP
1	G	524	GLU
1	G	532	ILE
1	G	534	SER
1	G	537	GLU
1	G	543	PRO
1	G	549	SER
1	G	561	LYS
1	G	562	SER
1	G	563	ASN
1	G	569	LYS
1	G	580	SER
1	G	593	SER
1	G	597	GLU
1	G	604	ASN

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Mol	Chain	Res	Type
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	701	LEU
1	G	702	GLU
1	G	704	ILE
1	G	708	ARG
1	G	713	SER
1	G	714	ARG
1	G	716	LEU
1	G	719	ASP
1	G	722	GLN
1	G	723	ARG
1	G	727	LEU
1	G	728	ASN
1	G	745	GLU
1	G	752	ASP
1	G	753	VAL
1	G	754	ASP
1	G	762	HIS
1	G	774	LEU
1	G	785	GLU
1	G	787	ILE
1	G	793	ARG
1	G	799	MET
1	G	802	GLU
1	G	804	ARG
1	G	810	ARG
1	G	816	ILE
1	G	822	SER

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Mol	Chain	Res	Type
1	G	832	MET
1	G	834	LEU
1	G	838	ILE
1	G	842	LEU
1	G	843	LYS
2	H	142	PRO
3	I	48	LYS
3	I	68	PHE
3	I	83	THR
3	I	95	ASP
3	I	96	LYS
1	J	4	ASP
1	J	7	MET
1	J	12	GLU
1	J	15	PRO
1	J	17	LEU
1	J	20	SER
1	J	22	LYS
1	J	36	SER
1	J	37	SER
1	J	46	SER
1	J	61	THR
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	97	LEU
1	J	106	LEU
1	J	109	ARG
1	J	114	MET
1	J	117	THR
1	J	121	LEU
1	J	126	VAL
1	J	127	ASN
1	J	135	TYR
1	J	136	ASN
1	J	146	LYS
1	J	149	GLN
1	J	155	ILE
1	J	157	SER

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Mol	Chain	Res	Type
1	J	158	ILE
1	J	159	SER
1	J	165	PHE
1	J	167	LEU
1	J	169	ASP
1	J	173	GLN
1	J	178	THR
1	J	185	LYS
1	J	186	THR
1	J	187	VAL
1	J	191	ARG
1	J	193	ILE
1	J	194	GLN
1	J	198	THR
1	J	199	ILE
1	J	218	LEU
1	J	219	GLU
1	J	221	GLN
1	J	223	ILE
1	J	229	LEU
1	J	244	SER
1	J	245	ARG
1	J	251	ARG
1	J	264	ASP
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	294	ASN
1	J	298	GLU
1	J	300	ILE
1	J	325	ILE
1	J	331	LEU
1	J	336	SER
1	J	351	ILE
1	J	354	LEU
1	J	364	LEU
1	J	365	LYS
1	J	372	GLU
1	J	376	GLU

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Mol	Chain	Res	Type
1	J	381	GLU
1	J	389	LEU
1	J	392	LEU
1	J	394	SER
1	J	399	LYS
1	J	405	ARG
1	J	410	ASN
1	J	439	LEU
1	J	447	GLN
1	J	448	GLN
1	J	449	LEU
1	J	453	GLN
1	J	455	ARG
1	J	457	TYR
1	J	462	LEU
1	J	471	ASP
1	J	474	SER
1	J	480	ILE
1	J	487	LEU
1	J	495	MET
1	J	499	GLU
1	J	506	GLU
1	J	513	ILE
1	J	518	ASP
1	J	524	GLU
1	J	532	ILE
1	J	534	SER
1	J	537	GLU
1	J	543	PRO
1	J	549	SER
1	J	561	LYS
1	J	562	SER
1	J	563	ASN
1	J	569	LYS
1	J	580	SER
1	J	593	SER
1	J	597	GLU
1	J	604	ASN
1	J	608	ILE
1	J	610	LEU
1	J	615	SER
1	J	621	LEU

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Mol	Chain	Res	Type
1	J	625	THR
1	J	664	LEU
1	J	666	SER
1	J	673	ARG
1	J	675	ILE
1	J	676	ILE
1	J	686	MET
1	J	689	GLU
1	J	690	LEU
1	J	693	HIS
1	J	698	ASN
1	J	701	LEU
1	J	702	GLU
1	J	708	ARG
1	J	713	SER
1	J	714	ARG
1	J	716	LEU
1	J	719	ASP
1	J	722	GLN
1	J	723	ARG
1	J	727	LEU
1	J	728	ASN
1	J	745	GLU
1	J	752	ASP
1	J	753	VAL
1	J	754	ASP
1	J	762	HIS
1	J	774	LEU
1	J	785	GLU
1	J	787	ILE
1	J	793	ARG
1	J	799	MET
1	J	802	GLU
1	J	804	ARG
1	J	810	ARG
1	J	816	ILE
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
2	K	142	PRO
3	L	48	LYS
3	L	68	PHE
3	L	83	THR
3	L	95	ASP
3	L	96	LYS
1	M	4	ASP
1	M	7	MET
1	M	12	GLU
1	M	15	PRO
1	M	17	LEU
1	M	20	SER
1	M	22	LYS
1	M	36	SER
1	M	37	SER
1	M	46	SER
1	M	61	THR
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	97	LEU
1	M	106	LEU
1	M	109	ARG
1	M	114	MET
1	M	117	THR
1	M	121	LEU
1	M	126	VAL
1	M	127	ASN
1	M	135	TYR
1	M	136	ASN
1	M	146	LYS
1	M	149	GLN
1	M	155	ILE
1	M	157	SER
1	M	158	ILE
1	M	159	SER
1	M	165	PHE
1	M	167	LEU
1	M	169	ASP

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Mol	Chain	Res	Type
1	M	173	GLN
1	M	178	THR
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	264	ASP
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	294	ASN
1	M	298	GLU
1	M	300	ILE
1	M	325	ILE
1	M	331	LEU
1	M	336	SER
1	M	351	ILE
1	M	354	LEU
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

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Mol	Chain	Res	Type
1	M	399	LYS
1	M	405	ARG
1	M	410	ASN
1	M	439	LEU
1	M	447	GLN
1	M	448	GLN
1	M	449	LEU
1	M	453	GLN
1	M	455	ARG
1	M	457	TYR
1	M	462	LEU
1	M	471	ASP
1	M	474	SER
1	M	480	ILE
1	M	487	LEU
1	M	495	MET
1	M	499	GLU
1	M	506	GLU
1	M	513	ILE
1	M	518	ASP
1	M	524	GLU
1	M	532	ILE
1	M	534	SER
1	M	537	GLU
1	M	543	PRO
1	M	549	SER
1	M	561	LYS
1	M	562	SER
1	M	563	ASN
1	M	569	LYS
1	M	580	SER
1	M	593	SER
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

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Mol	Chain	Res	Type
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	701	LEU
1	M	702	GLU
1	M	708	ARG
1	M	713	SER
1	M	714	ARG
1	M	716	LEU
1	M	719	ASP
1	M	722	GLN
1	M	723	ARG
1	M	727	LEU
1	M	728	ASN
1	M	745	GLU
1	M	752	ASP
1	M	753	VAL
1	M	754	ASP
1	M	762	HIS
1	M	774	LEU
1	M	785	GLU
1	M	787	ILE
1	M	793	ARG
1	M	799	MET
1	M	802	GLU
1	M	804	ARG
1	M	810	ARG
1	M	816	ILE
1	M	822	SER
1	M	832	MET
1	M	834	LEU
1	M	838	ILE
1	M	842	LEU
1	M	843	LYS
2	N	142	PRO
3	O	48	LYS
3	O	68	PHE
3	O	83	THR

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Mol	Chain	Res	Type
3	O	95	ASP
3	O	96	LYS
1	S	4	ASP
1	S	7	MET
1	S	12	GLU
1	S	15	PRO
1	S	17	LEU
1	S	20	SER
1	S	22	LYS
1	S	36	SER
1	S	37	SER
1	S	46	SER
1	S	61	THR
1	S	69	THR
1	S	70	LEU
1	S	72	VAL
1	S	73	LYS
1	S	75	ASP
1	S	76	GLN
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	126	VAL
1	S	127	ASN
1	S	135	TYR
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	165	PHE
1	S	167	LEU
1	S	169	ASP
1	S	173	GLN
1	S	178	THR
1	S	185	LYS
1	S	186	THR

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Mol	Chain	Res	Type
1	S	187	VAL
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
1	S	251	ARG
1	S	264	ASP
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	294	ASN
1	S	298	GLU
1	S	300	ILE
1	S	325	ILE
1	S	331	LEU
1	S	336	SER
1	S	351	ILE
1	S	354	LEU
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	405	ARG
1	S	410	ASN
1	S	439	LEU
1	S	447	GLN

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Mol	Chain	Res	Type
1	S	448	GLN
1	S	449	LEU
1	S	453	GLN
1	S	455	ARG
1	S	457	TYR
1	S	462	LEU
1	S	471	ASP
1	S	474	SER
1	S	480	ILE
1	S	487	LEU
1	S	495	MET
1	S	499	GLU
1	S	506	GLU
1	S	513	ILE
1	S	518	ASP
1	S	524	GLU
1	S	532	ILE
1	S	534	SER
1	S	537	GLU
1	S	543	PRO
1	S	549	SER
1	S	561	LYS
1	S	562	SER
1	S	563	ASN
1	S	569	LYS
1	S	580	SER
1	S	593	SER
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

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Mol	Chain	Res	Type
1	S	693	HIS
1	S	698	ASN
1	S	701	LEU
1	S	702	GLU
1	S	708	ARG
1	S	713	SER
1	S	714	ARG
1	S	716	LEU
1	S	719	ASP
1	S	722	GLN
1	S	723	ARG
1	S	727	LEU
1	S	728	ASN
1	S	745	GLU
1	S	752	ASP
1	S	753	VAL
1	S	754	ASP
1	S	762	HIS
1	S	774	LEU
1	S	785	GLU
1	S	787	ILE
1	S	793	ARG
1	S	799	MET
1	S	802	GLU
1	S	804	ARG
1	S	810	ARG
1	S	816	ILE
1	S	822	SER
1	S	832	MET
1	S	834	LEU
1	S	838	ILE
1	S	842	LEU
1	S	843	LYS
2	T	142	PRO
3	U	48	LYS
3	U	68	PHE
3	U	83	THR
3	U	95	ASP
3	U	96	LYS
4	1	33	SER
4	1	34	ILE
4	1	37	ARG

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Mol	Chain	Res	Type
4	1	66	THR
4	1	72	GLU
4	1	80	ASP
4	1	100	GLU
4	1	109	PRO
4	1	116	ARG
4	1	145	SER
4	1	153	LEU
4	1	159	VAL
4	1	180	LEU
4	1	191	LYS
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	239	SER
4	1	242	LEU
4	1	246	GLN
4	1	263	GLN
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	312	ARG
4	1	315	LYS
4	1	318	THR
4	1	320	LEU
4	1	327	ILE
4	1	334	GLU
4	1	349	LEU
4	1	350	SER
4	1	351	THR
4	1	354	GLN
4	1	359	LYS
4	1	360	GLN
4	1	361	GLU

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Mol	Chain	Res	Type
4	1	368	SER
4	2	16	LEU
4	2	33	SER
4	2	34	ILE
4	2	37	ARG
4	2	66	THR
4	2	72	GLU
4	2	80	ASP
4	2	100	GLU
4	2	109	PRO
4	2	116	ARG
4	2	145	SER
4	2	153	LEU
4	2	159	VAL
4	2	180	LEU
4	2	191	LYS
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	239	SER
4	2	242	LEU
4	2	246	GLN
4	2	263	GLN
4	2	281	SER
4	2	283	MET
4	2	287	ILE
4	2	291	LYS
4	2	293	LEU
4	2	297	ASN
4	2	299	MET
4	2	312	ARG
4	2	315	LYS
4	2	318	THR
4	2	320	LEU
4	2	327	ILE
4	2	334	GLU
4	2	349	LEU
4	2	350	SER

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Mol	Chain	Res	Type
4	2	351	THR
4	2	354	GLN
4	2	359	LYS
4	2	360	GLN
4	2	361	GLU
4	2	368	SER
4	3	33	SER
4	3	34	ILE
4	3	37	ARG
4	3	66	THR
4	3	72	GLU
4	3	80	ASP
4	3	100	GLU
4	3	109	PRO
4	3	116	ARG
4	3	145	SER
4	3	153	LEU
4	3	159	VAL
4	3	180	LEU
4	3	191	LYS
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	239	SER
4	3	242	LEU
4	3	246	GLN
4	3	263	GLN
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	312	ARG
4	3	315	LYS
4	3	318	THR
4	3	320	LEU

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Mol	Chain	Res	Type
4	3	327	ILE
4	3	334	GLU
4	3	349	LEU
4	3	350	SER
4	3	351	THR
4	3	354	GLN
4	3	359	LYS
4	3	360	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	66	THR
4	4	72	GLU
4	4	80	ASP
4	4	100	GLU
4	4	109	PRO
4	4	116	ARG
4	4	145	SER
4	4	153	LEU
4	4	159	VAL
4	4	180	LEU
4	4	191	LYS
4	4	196	ARG
4	4	199	SER
4	4	201	VAL
4	4	206	ARG
4	4	221	LEU
4	4	223	PHE
4	4	229	THR
4	4	239	SER
4	4	242	LEU
4	4	246	GLN
4	4	263	GLN
4	4	281	SER
4	4	283	MET
4	4	287	ILE
4	4	291	LYS
4	4	293	LEU
4	4	297	ASN

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Mol	Chain	Res	Type
4	4	299	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	354	GLN
4	4	359	LYS
4	4	360	GLN
4	4	361	GLU
4	4	368	SER
4	5	33	SER
4	5	34	ILE
4	5	37	ARG
4	5	66	THR
4	5	72	GLU
4	5	80	ASP
4	5	100	GLU
4	5	109	PRO
4	5	116	ARG
4	5	145	SER
4	5	153	LEU
4	5	159	VAL
4	5	180	LEU
4	5	191	LYS
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	239	SER
4	5	242	LEU
4	5	246	GLN
4	5	263	GLN
4	5	281	SER
4	5	283	MET

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Mol	Chain	Res	Type
4	5	287	ILE
4	5	291	LYS
4	5	293	LEU
4	5	297	ASN
4	5	299	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	354	GLN
4	5	359	LYS
4	5	360	GLN
4	5	361	GLU
4	5	368	SER
4	6	33	SER
4	6	34	ILE
4	6	37	ARG
4	6	66	THR
4	6	72	GLU
4	6	80	ASP
4	6	100	GLU
4	6	109	PRO
4	6	116	ARG
4	6	145	SER
4	6	153	LEU
4	6	159	VAL
4	6	180	LEU
4	6	191	LYS
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	239	SER
4	6	242	LEU

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Mol	Chain	Res	Type
4	6	246	GLN
4	6	263	GLN
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	312	ARG
4	6	315	LYS
4	6	318	THR
4	6	320	LEU
4	6	327	ILE
4	6	334	GLU
4	6	349	LEU
4	6	350	SER
4	6	351	THR
4	6	354	GLN
4	6	359	LYS
4	6	360	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	66	THR
4	7	72	GLU
4	7	80	ASP
4	7	100	GLU
4	7	109	PRO
4	7	116	ARG
4	7	145	SER
4	7	153	LEU
4	7	159	VAL
4	7	180	LEU
4	7	191	LYS
4	7	196	ARG
4	7	199	SER
4	7	201	VAL
4	7	206	ARG

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Mol	Chain	Res	Type
4	7	221	LEU
4	7	223	PHE
4	7	229	THR
4	7	239	SER
4	7	242	LEU
4	7	246	GLN
4	7	263	GLN
4	7	281	SER
4	7	283	MET
4	7	287	ILE
4	7	291	LYS
4	7	293	LEU
4	7	297	ASN
4	7	299	MET
4	7	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	354	GLN
4	7	359	LYS
4	7	360	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	66	THR
4	8	72	GLU
4	8	80	ASP
4	8	100	GLU
4	8	109	PRO
4	8	116	ARG
4	8	145	SER
4	8	153	LEU
4	8	159	VAL
4	8	180	LEU

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Mol	Chain	Res	Type
4	8	191	LYS
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	239	SER
4	8	242	LEU
4	8	246	GLN
4	8	263	GLN
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	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	354	GLN
4	8	359	LYS
4	8	360	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	66	THR
4	9	72	GLU
4	9	80	ASP
4	9	100	GLU
4	9	109	PRO

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Mol	Chain	Res	Type
4	9	116	ARG
4	9	145	SER
4	9	153	LEU
4	9	159	VAL
4	9	180	LEU
4	9	191	LYS
4	9	196	ARG
4	9	199	SER
4	9	201	VAL
4	9	206	ARG
4	9	221	LEU
4	9	223	PHE
4	9	229	THR
4	9	239	SER
4	9	242	LEU
4	9	246	GLN
4	9	263	GLN
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	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	354	GLN
4	9	359	LYS
4	9	360	GLN
4	9	361	GLU
4	9	368	SER
4	V	33	SER
4	V	34	ILE
4	V	37	ARG
4	V	66	THR

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Mol	Chain	Res	Type
4	V	72	GLU
4	V	80	ASP
4	V	100	GLU
4	V	109	PRO
4	V	116	ARG
4	V	145	SER
4	V	153	LEU
4	V	159	VAL
4	V	180	LEU
4	V	191	LYS
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	239	SER
4	V	242	LEU
4	V	246	GLN
4	V	263	GLN
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	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	354	GLN
4	V	359	LYS
4	V	360	GLN
4	V	361	GLU
4	V	368	SER

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Mol	Chain	Res	Type
4	W	16	LEU
4	W	33	SER
4	W	34	ILE
4	W	37	ARG
4	W	66	THR
4	W	72	GLU
4	W	80	ASP
4	W	100	GLU
4	W	109	PRO
4	W	116	ARG
4	W	145	SER
4	W	153	LEU
4	W	159	VAL
4	W	180	LEU
4	W	191	LYS
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	239	SER
4	W	242	LEU
4	W	246	GLN
4	W	263	GLN
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	312	ARG
4	W	315	LYS
4	W	318	THR
4	W	320	LEU
4	W	327	ILE
4	W	334	GLU
4	W	349	LEU
4	W	350	SER
4	W	351	THR

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Mol	Chain	Res	Type
4	W	354	GLN
4	W	359	LYS
4	W	360	GLN
4	W	361	GLU
4	W	368	SER
4	X	33	SER
4	X	34	ILE
4	X	37	ARG
4	X	66	THR
4	X	72	GLU
4	X	80	ASP
4	X	100	GLU
4	X	109	PRO
4	X	116	ARG
4	X	145	SER
4	X	153	LEU
4	X	159	VAL
4	X	180	LEU
4	X	191	LYS
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	239	SER
4	X	242	LEU
4	X	246	GLN
4	X	263	GLN
4	X	281	SER
4	X	283	MET
4	X	287	ILE
4	X	291	LYS
4	X	293	LEU
4	X	297	ASN
4	X	299	MET
4	X	312	ARG
4	X	315	LYS
4	X	318	THR
4	X	320	LEU
4	X	327	ILE

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Mol	Chain	Res	Type
4	X	334	GLU
4	X	349	LEU
4	X	350	SER
4	X	351	THR
4	X	354	GLN
4	X	359	LYS
4	X	360	GLN
4	X	361	GLU
4	X	368	SER
4	Y	33	SER
4	Y	34	ILE
4	Y	37	ARG
4	Y	66	THR
4	Y	72	GLU
4	Y	80	ASP
4	Y	100	GLU
4	Y	109	PRO
4	Y	116	ARG
4	Y	145	SER
4	Y	153	LEU
4	Y	159	VAL
4	Y	180	LEU
4	Y	191	LYS
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	239	SER
4	Y	242	LEU
4	Y	246	GLN
4	Y	263	GLN
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	312	ARG

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Mol	Chain	Res	Type
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	354	GLN
4	Y	359	LYS
4	Y	360	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	66	THR
4	Z	72	GLU
4	Z	80	ASP
4	Z	100	GLU
4	Z	109	PRO
4	Z	116	ARG
4	Z	145	SER
4	Z	153	LEU
4	Z	159	VAL
4	Z	180	LEU
4	Z	191	LYS
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	239	SER
4	Z	242	LEU
4	Z	246	GLN
4	Z	263	GLN
4	Z	281	SER
4	Z	283	MET
4	Z	287	ILE

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Mol	Chain	Res	Type
4	Z	291	LYS
4	Z	293	LEU
4	Z	297	ASN
4	Z	299	MET
4	Z	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	354	GLN
4	Z	359	LYS
4	Z	360	GLN
4	Z	361	GLU
4	Z	368	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (236) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	GLN
1	A	29	ASN
1	A	127	ASN
1	A	164	GLN
1	A	188	ASN
1	A	194	GLN
1	A	221	GLN
1	A	253	HIS
1	A	290	GLN
1	A	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	612	GLN
1	A	656	ASN

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Mol	Chain	Res	Type
1	A	670	HIS
1	A	698	ASN
1	A	757	GLN
1	A	762	HIS
1	A	791	GLN
2	B	159	HIS
3	C	39	GLN
3	C	52	ASN
1	D	29	ASN
1	D	127	ASN
1	D	149	GLN
1	D	164	GLN
1	D	188	ASN
1	D	194	GLN
1	D	221	GLN
1	D	253	HIS
1	D	290	GLN
1	D	368	GLN
1	D	424	ASN
1	D	447	GLN
1	D	453	GLN
1	D	481	ASN
1	D	484	ASN
1	D	563	ASN
1	D	564	ASN
1	D	578	HIS
1	D	612	GLN
1	D	656	ASN
1	D	670	HIS
1	D	698	ASN
1	D	757	GLN
1	D	762	HIS
1	D	791	GLN
2	E	159	HIS
3	F	39	GLN
3	F	40	ASN
3	F	52	ASN
1	G	29	ASN
1	G	127	ASN
1	G	149	GLN
1	G	164	GLN
1	G	188	ASN

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Mol	Chain	Res	Type
1	G	194	GLN
1	G	221	GLN
1	G	253	HIS
1	G	290	GLN
1	G	368	GLN
1	G	424	ASN
1	G	447	GLN
1	G	453	GLN
1	G	481	ASN
1	G	484	ASN
1	G	563	ASN
1	G	564	ASN
1	G	578	HIS
1	G	612	GLN
1	G	656	ASN
1	G	670	HIS
1	G	762	HIS
1	G	791	GLN
3	I	39	GLN
3	I	52	ASN
3	I	81	GLN
3	I	109	HIS
1	J	29	ASN
1	J	127	ASN
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	368	GLN
1	J	424	ASN
1	J	453	GLN
1	J	481	ASN
1	J	484	ASN
1	J	563	ASN
1	J	564	ASN
1	J	578	HIS
1	J	612	GLN
1	J	656	ASN
1	J	670	HIS
1	J	698	ASN

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Mol	Chain	Res	Type
1	J	762	HIS
1	J	791	GLN
2	K	159	HIS
3	L	40	ASN
3	L	52	ASN
1	M	29	ASN
1	M	127	ASN
1	M	149	GLN
1	M	164	GLN
1	M	188	ASN
1	M	194	GLN
1	M	221	GLN
1	M	253	HIS
1	M	290	GLN
1	M	368	GLN
1	M	424	ASN
1	M	447	GLN
1	M	453	GLN
1	M	481	ASN
1	M	484	ASN
1	M	563	ASN
1	M	564	ASN
1	M	578	HIS
1	M	612	GLN
1	M	656	ASN
1	M	670	HIS
1	M	757	GLN
1	M	762	HIS
3	O	39	GLN
3	O	52	ASN
1	S	29	ASN
1	S	127	ASN
1	S	164	GLN
1	S	188	ASN
1	S	194	GLN
1	S	221	GLN
1	S	253	HIS
1	S	290	GLN
1	S	368	GLN
1	S	424	ASN
1	S	453	GLN
1	S	481	ASN

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Mol	Chain	Res	Type
1	S	484	ASN
1	S	563	ASN
1	S	564	ASN
1	S	578	HIS
1	S	612	GLN
1	S	656	ASN
1	S	670	HIS
1	S	698	ASN
2	T	159	HIS
3	U	40	ASN
3	U	52	ASN
4	1	41	GLN
4	1	87	HIS
4	1	92	ASN
4	1	137	GLN
4	1	252	ASN
4	1	263	GLN
4	1	354	GLN
4	2	41	GLN
4	2	92	ASN
4	2	137	GLN
4	2	252	ASN
4	2	263	GLN
4	3	41	GLN
4	3	92	ASN
4	3	137	GLN
4	3	252	ASN
4	3	263	GLN
4	3	354	GLN
4	4	49	GLN
4	4	92	ASN
4	4	137	GLN
4	4	252	ASN
4	4	263	GLN
4	4	354	GLN
4	5	41	GLN
4	5	92	ASN
4	5	137	GLN
4	5	252	ASN
4	5	263	GLN
4	5	354	GLN
4	6	41	GLN

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

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Mol	Chain	Res	Type
4	Y	354	GLN
4	Z	41	GLN
4	Z	92	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	G	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	S	353	1	9,10,11	0.86	0	6,11,13	0.78	0
1	MLY	D	385	1	9,10,11	0.97	1 (11%)	6,11,13	0.44	0
1	MLY	M	504	1	9,10,11	0.85	0	6,11,13	0.23	0
1	MLY	M	107	1	9,10,11	0.48	0	6,11,13	0.34	0
1	MLY	S	833	1	9,10,11	1.18	1 (11%)	6,11,13	0.31	0
1	MLY	J	528	1	9,10,11	0.88	0	6,11,13	0.65	0
1	MLY	S	827	1	9,10,11	0.72	0	6,11,13	0.49	0
1	MLY	G	369	1	9,10,11	0.70	0	6,11,13	0.46	0
1	MLY	A	782	1	9,10,11	0.79	0	6,11,13	0.37	0
1	MLY	D	839	1	9,10,11	0.67	0	6,11,13	0.79	0
1	MLY	J	49	1	9,10,11	1.08	1 (11%)	6,11,13	0.74	0
1	MLY	J	295	1	9,10,11	0.78	0	6,11,13	0.35	0
1	MLY	A	659	1	9,10,11	0.84	0	6,11,13	0.59	0
1	MLY	A	296	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	G	63	1	9,10,11	0.90	0	6,11,13	0.43	0
1	MLY	J	63	1	9,10,11	0.89	0	6,11,13	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	A	353	1	9,10,11	0.86	0	6,11,13	0.79	0
1	MLY	J	681	1	9,10,11	0.59	0	6,11,13	0.46	0
1	MLY	S	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	D	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.43	0
1	MLY	S	528	1	9,10,11	0.89	0	6,11,13	0.66	0
1	MLY	G	272	1	9,10,11	0.97	1 (11%)	6,11,13	0.54	0
1	MLY	J	272	1	9,10,11	0.99	1 (11%)	6,11,13	0.56	0
1	MLY	M	353	1	9,10,11	0.85	0	6,11,13	0.79	0
1	MLY	M	385	1	9,10,11	1.02	1 (11%)	6,11,13	0.44	0
1	MLY	A	553	1,4	9,10,11	0.68	0	6,11,13	0.55	0
1	MLY	S	295	1	9,10,11	0.77	0	6,11,13	0.34	0
1	MLY	D	504	1	9,10,11	0.88	0	6,11,13	0.21	0
1	MLY	S	681	1	9,10,11	0.63	0	6,11,13	0.46	0
1	MLY	S	837	1	9,10,11	0.58	0	6,11,13	0.54	0
1	MLY	A	613	1	9,10,11	0.57	0	6,11,13	0.63	0
1	MLY	D	272	1	9,10,11	0.95	1 (11%)	6,11,13	0.58	0
1	MLY	G	385	1	9,10,11	0.99	1 (11%)	6,11,13	0.44	0
1	MLY	G	348	1	9,10,11	0.87	1 (11%)	6,11,13	0.48	0
1	MLY	J	415	1	9,10,11	0.77	0	6,11,13	0.18	0
1	MLY	S	30	1	9,10,11	0.89	0	6,11,13	0.32	0
1	MLY	G	431	1	9,10,11	0.52	0	6,11,13	0.46	0
1	MLY	D	130	1	9,10,11	0.80	0	6,11,13	0.74	0
1	MLY	D	528	1	9,10,11	0.91	0	6,11,13	0.64	0
1	MLY	G	367	1	9,10,11	0.66	0	6,11,13	0.38	0
1	MLY	G	553	1,4	9,10,11	0.67	0	6,11,13	0.55	0
1	MLY	J	768	1	9,10,11	0.77	0	6,11,13	0.42	0
1	MLY	G	138	1	9,10,11	1.35	1 (11%)	6,11,13	0.84	0
1	MLY	A	19	1	9,10,11	1.12	1 (11%)	6,11,13	0.58	0
1	MLY	M	505	1	9,10,11	0.93	1 (11%)	6,11,13	0.33	0
1	MLY	S	415	1	9,10,11	0.77	0	6,11,13	0.18	0
1	MLY	G	87	1	9,10,11	1.22	1 (11%)	6,11,13	0.43	0
1	MLY	G	436	1	9,10,11	1.04	1 (11%)	6,11,13	0.48	0
1	MLY	D	353	1	9,10,11	0.85	0	6,11,13	0.79	0
1	MLY	A	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	J	385	1	9,10,11	1.01	1 (11%)	6,11,13	0.44	0
1	MLY	S	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	S	768	1	9,10,11	0.75	0	6,11,13	0.42	0
1	MLY	J	833	1	9,10,11	1.19	1 (11%)	6,11,13	0.31	0
1	MLY	A	369	1	9,10,11	0.71	0	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	D	505	1	9,10,11	0.86	1 (11%)	6,11,13	0.35	0
1	MLY	J	600	1	9,10,11	0.53	0	6,11,13	0.37	0
1	MLY	J	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	A	55	1	9,10,11	0.71	0	6,11,13	0.79	0
1	MLY	A	415	1	9,10,11	0.76	0	6,11,13	0.19	0
1	MLY	G	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	A	431	1	9,10,11	0.51	0	6,11,13	0.44	0
1	MLY	A	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.44	0
1	MLY	D	827	1	9,10,11	0.67	0	6,11,13	0.48	0
1	MLY	M	551	1	9,10,11	0.53	0	6,11,13	0.19	0
1	MLY	D	782	1	9,10,11	0.79	0	6,11,13	0.34	0
1	MLY	A	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	D	84	1	9,10,11	0.51	0	6,11,13	0.80	0
1	MLY	J	598	1	9,10,11	0.88	1 (11%)	6,11,13	0.43	0
1	MLY	D	659	1	9,10,11	0.84	0	6,11,13	0.60	0
1	MLY	G	130	1	9,10,11	0.78	0	6,11,13	0.75	0
1	MLY	M	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	M	348	1	9,10,11	0.79	0	6,11,13	0.47	0
1	MLY	J	505	1	9,10,11	0.93	1 (11%)	6,11,13	0.34	0
1	MLY	M	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.43	0
1	MLY	S	486	1	9,10,11	0.63	0	6,11,13	0.40	0
1	MLY	M	190	1	9,10,11	1.24	1 (11%)	6,11,13	0.53	0
1	MLY	M	59	1	9,10,11	0.88	0	6,11,13	0.49	0
1	MLY	A	617	1	9,10,11	0.96	1 (11%)	6,11,13	0.34	0
1	MLY	D	248	1	9,10,11	0.86	0	6,11,13	0.62	0
1	MLY	S	35	1	9,10,11	0.72	0	6,11,13	0.38	0
1	MLY	A	30	1	9,10,11	0.88	0	6,11,13	0.32	0
1	MLY	S	764	1	9,10,11	0.83	0	6,11,13	0.38	0
1	MLY	J	107	1	9,10,11	0.49	0	6,11,13	0.34	0
1	MLY	A	486	1	9,10,11	0.65	0	6,11,13	0.38	0
1	MLY	A	827	1	9,10,11	0.72	0	6,11,13	0.46	0
1	MLY	D	49	1	9,10,11	1.08	1 (11%)	6,11,13	0.75	0
1	MLY	G	35	1	9,10,11	0.72	0	6,11,13	0.39	0
1	MLY	G	837	1	9,10,11	0.59	0	6,11,13	0.53	0
1	MLY	D	30	1	9,10,11	0.92	0	6,11,13	0.32	0
1	MLY	J	87	1	9,10,11	1.20	1 (11%)	6,11,13	0.44	0
1	MLY	J	436	1	9,10,11	1.05	1 (11%)	6,11,13	0.50	0
1	MLY	J	837	1	9,10,11	0.59	0	6,11,13	0.56	0
1	MLY	M	30	1	9,10,11	0.89	0	6,11,13	0.32	0
1	MLY	S	272	1	9,10,11	0.99	1 (11%)	6,11,13	0.56	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	G	49	1	9,10,11	1.08	1 (11%)	6,11,13	0.74	0
1	MLY	S	431	1	9,10,11	0.51	0	6,11,13	0.44	0
1	MLY	S	617	1	9,10,11	0.98	1 (11%)	6,11,13	0.34	0
1	MLY	D	348	1	9,10,11	0.82	0	6,11,13	0.47	0
1	MLY	G	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.48	0
1	MLY	G	296	1	9,10,11	0.65	0	6,11,13	0.37	0
1	MLY	J	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.47	0
1	MLY	J	353	1	9,10,11	0.86	0	6,11,13	0.78	0
1	MLY	S	385	1	9,10,11	1.01	1 (11%)	6,11,13	0.44	0
1	MLY	D	431	1	9,10,11	0.53	0	6,11,13	0.45	0
1	MLY	G	505	1	9,10,11	0.88	1 (11%)	6,11,13	0.35	0
1	MLY	S	63	1	9,10,11	0.88	0	6,11,13	0.43	0
1	MLY	A	764	1	9,10,11	0.84	0	6,11,13	0.36	0
1	MLY	D	138	1	9,10,11	1.39	1 (11%)	6,11,13	0.86	0
1	MLY	M	138	1	9,10,11	1.34	1 (11%)	6,11,13	0.83	0
1	MLY	G	528	1	9,10,11	0.91	0	6,11,13	0.66	0
1	MLY	D	681	1	9,10,11	0.59	0	6,11,13	0.45	0
1	MLY	S	367	1	9,10,11	0.63	0	6,11,13	0.38	0
1	MLY	S	600	1	9,10,11	0.53	0	6,11,13	0.37	0
1	MLY	M	827	1	9,10,11	0.73	0	6,11,13	0.48	0
1	MLY	S	87	1	9,10,11	1.23	1 (11%)	6,11,13	0.43	0
1	MLY	M	764	1	9,10,11	0.83	0	6,11,13	0.38	0
1	MLY	M	782	1	9,10,11	0.78	0	6,11,13	0.36	0
1	MLY	S	49	1	9,10,11	1.11	1 (11%)	6,11,13	0.74	0
1	MLY	S	436	1	9,10,11	1.04	1 (11%)	6,11,13	0.49	0
1	MLY	M	617	1	9,10,11	0.97	1 (11%)	6,11,13	0.33	0
1	MLY	G	839	1	9,10,11	0.71	0	6,11,13	0.80	0
1	MLY	G	681	1	9,10,11	0.62	0	6,11,13	0.45	0
1	MLY	G	613	1	9,10,11	0.59	0	6,11,13	0.63	0
1	MLY	J	613	1	9,10,11	0.57	0	6,11,13	0.64	0
1	MLY	M	613	1	9,10,11	0.56	0	6,11,13	0.64	0
1	MLY	G	768	1	9,10,11	0.74	0	6,11,13	0.42	0
1	MLY	A	84	1	9,10,11	0.49	0	6,11,13	0.79	0
1	MLY	A	505	1	9,10,11	0.88	1 (11%)	6,11,13	0.33	0
1	MLY	J	659	1	9,10,11	0.82	0	6,11,13	0.57	0
1	MLY	M	600	1	9,10,11	0.53	0	6,11,13	0.37	0
1	MLY	D	600	1	9,10,11	0.51	0	6,11,13	0.37	0
1	MLY	A	768	1	9,10,11	0.76	0	6,11,13	0.41	0
1	MLY	A	528	1	9,10,11	0.88	0	6,11,13	0.67	0
1	MLY	D	87	1	9,10,11	1.15	1 (11%)	6,11,13	0.45	0



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	M	19	1	9,10,11	1.16	1 (11%)	6,11,13	0.57	0
1	MLY	J	551	1	9,10,11	0.54	0	6,11,13	0.19	0
1	MLY	J	30	1	9,10,11	0.89	0	6,11,13	0.32	0
1	MLY	J	138	1	9,10,11	1.34	1 (11%)	6,11,13	0.83	0
1	MLY	D	764	1	9,10,11	0.86	0	6,11,13	0.36	0
1	MLY	G	600	1	9,10,11	0.52	0	6,11,13	0.37	0
1	MLY	J	296	1	9,10,11	0.69	0	6,11,13	0.36	0
1	MLY	J	348	1	9,10,11	0.82	0	6,11,13	0.47	0
1	MLY	A	295	1	9,10,11	0.80	0	6,11,13	0.33	0
1	MLY	G	248	1	9,10,11	0.81	0	6,11,13	0.63	0
1	MLY	G	504	1	9,10,11	0.88	0	6,11,13	0.22	0
1	MLY	J	55	1	9,10,11	0.73	0	6,11,13	0.78	0
1	MLY	A	681	1	9,10,11	0.59	0	6,11,13	0.46	0
1	MLY	J	504	1	9,10,11	0.85	0	6,11,13	0.24	0
1	MLY	G	59	1	9,10,11	0.84	0	6,11,13	0.50	0
1	MLY	M	431	1	9,10,11	0.53	0	6,11,13	0.44	0
1	MLY	A	837	1	9,10,11	0.60	0	6,11,13	0.54	0
1	MLY	J	59	1	9,10,11	0.87	0	6,11,13	0.49	0
1	MLY	M	528	1	9,10,11	0.89	0	6,11,13	0.64	0
1	MLY	M	295	1	9,10,11	0.78	0	6,11,13	0.34	0
1	MLY	D	295	1	9,10,11	0.78	0	6,11,13	0.36	0
1	MLY	S	19	1	9,10,11	1.17	1 (11%)	6,11,13	0.57	0
1	MLY	M	768	1	9,10,11	0.76	0	6,11,13	0.42	0
1	MLY	M	681	1	9,10,11	0.60	0	6,11,13	0.46	0
1	MLY	J	839	1	9,10,11	0.68	0	6,11,13	0.77	0
1	MLY	G	30	1	9,10,11	0.88	0	6,11,13	0.30	0
1	MLY	D	63	1	9,10,11	0.91	0	6,11,13	0.46	0
1	MLY	D	837	1	9,10,11	0.61	0	6,11,13	0.57	0
1	MLY	G	659	1	9,10,11	0.85	0	6,11,13	0.59	0
1	MLY	M	63	1	9,10,11	0.91	0	6,11,13	0.43	0
1	MLY	M	833	1	9,10,11	1.17	1 (11%)	6,11,13	0.31	0
1	MLY	M	837	1	9,10,11	0.59	0	6,11,13	0.56	0
1	MLY	S	55	1	9,10,11	0.73	0	6,11,13	0.77	0
1	MLY	S	505	1	9,10,11	0.92	1 (11%)	6,11,13	0.33	0
1	MLY	S	504	1	9,10,11	0.85	0	6,11,13	0.23	0
1	MLY	S	59	1	9,10,11	0.86	0	6,11,13	0.50	0
1	MLY	G	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	G	827	1	9,10,11	0.71	0	6,11,13	0.49	0
1	MLY	M	369	1	9,10,11	0.70	0	6,11,13	0.45	0
1	MLY	G	782	1	9,10,11	0.77	0	6,11,13	0.35	0
1	MLY	J	782	1	9,10,11	0.79	0	6,11,13	0.36	0
1	MLY	A	385	1	9,10,11	0.99	1 (11%)	6,11,13	0.43	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	M	415	1	9,10,11	0.78	0	6,11,13	0.19	0
1	MLY	G	190	1	9,10,11	1.26	1 (11%)	6,11,13	0.51	0
1	MLY	A	59	1	9,10,11	0.87	0	6,11,13	0.49	0
1	MLY	S	598	1	9,10,11	0.89	1 (11%)	6,11,13	0.43	0
1	MLY	A	236	1	9,10,11	0.80	1 (11%)	6,11,13	0.50	0
1	MLY	M	55	1	9,10,11	0.73	0	6,11,13	0.78	0
1	MLY	G	107	1	9,10,11	0.48	0	6,11,13	0.34	0
1	MLY	D	551	1	9,10,11	0.54	0	6,11,13	0.20	0
1	MLY	A	367	1	9,10,11	0.63	0	6,11,13	0.36	0
1	MLY	D	59	1	9,10,11	0.86	0	6,11,13	0.49	0
1	MLY	D	768	1	9,10,11	0.73	0	6,11,13	0.40	0
1	MLY	J	130	1	9,10,11	0.77	0	6,11,13	0.75	0
1	MLY	M	367	1	9,10,11	0.62	0	6,11,13	0.36	0
1	MLY	S	839	1	9,10,11	0.69	0	6,11,13	0.77	0
1	MLY	A	87	1	9,10,11	1.20	1 (11%)	6,11,13	0.42	0
1	MLY	D	190	1	9,10,11	1.21	1 (11%)	6,11,13	0.54	0
1	MLY	A	436	1	9,10,11	1.04	1 (11%)	6,11,13	0.49	0
1	MLY	A	833	1	9,10,11	1.15	1 (11%)	6,11,13	0.32	0
1	MLY	D	369	1	9,10,11	0.69	0	6,11,13	0.44	0
1	MLY	S	659	1	9,10,11	0.81	0	6,11,13	0.57	0
1	MLY	D	613	1	9,10,11	0.58	0	6,11,13	0.63	0
1	MLY	G	19	1	9,10,11	1.15	1 (11%)	6,11,13	0.58	0
1	MLY	J	19	1	9,10,11	1.18	1 (11%)	6,11,13	0.57	0
1	MLY	M	35	1	9,10,11	0.71	0	6,11,13	0.39	0
1	MLY	S	107	1	9,10,11	0.48	0	6,11,13	0.35	0
1	MLY	D	415	1	9,10,11	0.79	0	6,11,13	0.19	0
1	MLY	D	833	1	9,10,11	1.15	2 (22%)	6,11,13	0.32	0
1	MLY	S	130	1	9,10,11	0.78	0	6,11,13	0.75	0
1	MLY	J	248	1	9,10,11	0.84	0	6,11,13	0.62	0
1	MLY	S	553	1	9,10,11	0.67	0	6,11,13	0.53	0
1	MLY	D	19	1	9,10,11	1.19	1 (11%)	6,11,13	0.56	0
1	MLY	A	504	1	9,10,11	0.90	0	6,11,13	0.24	0
1	MLY	S	782	1	9,10,11	0.77	0	6,11,13	0.37	0
1	MLY	A	107	1	9,10,11	0.47	0	6,11,13	0.33	0
1	MLY	G	415	1	9,10,11	0.77	0	6,11,13	0.19	0
1	MLY	A	130	1	9,10,11	0.80	0	6,11,13	0.74	0
1	MLY	J	431	1	9,10,11	0.53	0	6,11,13	0.45	0
1	MLY	A	63	1	9,10,11	0.92	1 (11%)	6,11,13	0.44	0
1	MLY	D	55	1	9,10,11	0.72	0	6,11,13	0.79	0
1	MLY	S	248	1	9,10,11	0.82	0	6,11,13	0.62	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	J	190	1	9,10,11	1.25	1 (11%)	6,11,13	0.53	0
1	MLY	M	130	1	9,10,11	0.78	0	6,11,13	0.74	0
1	MLY	A	49	1	9,10,11	1.06	1 (11%)	6,11,13	0.74	0
1	MLY	D	486	1	9,10,11	0.66	0	6,11,13	0.38	0
1	MLY	G	295	1	9,10,11	0.78	0	6,11,13	0.33	0
1	MLY	M	49	1	9,10,11	1.08	1 (11%)	6,11,13	0.75	0
1	MLY	S	236	1	9,10,11	0.78	1 (11%)	6,11,13	0.47	0
1	MLY	A	35	1	9,10,11	0.71	0	6,11,13	0.38	0
1	MLY	S	296	1	9,10,11	0.68	0	6,11,13	0.36	0
1	MLY	M	839	1	9,10,11	0.71	0	6,11,13	0.77	0
1	MLY	G	833	1	9,10,11	1.17	2 (22%)	6,11,13	0.33	0
1	MLY	M	436	1	9,10,11	1.07	1 (11%)	6,11,13	0.50	0
1	MLY	D	436	1	9,10,11	1.09	1 (11%)	6,11,13	0.50	0
1	MLY	S	190	1	9,10,11	1.25	1 (11%)	6,11,13	0.52	0
1	MLY	A	600	1	9,10,11	0.50	0	6,11,13	0.37	0
1	MLY	M	248	1	9,10,11	0.82	0	6,11,13	0.62	0
1	MLY	J	369	1	9,10,11	0.69	0	6,11,13	0.46	0
1	MLY	G	764	1	9,10,11	0.81	0	6,11,13	0.35	0
1	MLY	A	248	1	9,10,11	0.83	0	6,11,13	0.61	0
1	MLY	G	598	1	9,10,11	0.90	1 (11%)	6,11,13	0.42	0
1	MLY	A	190	1	9,10,11	1.26	1 (11%)	6,11,13	0.51	0
1	MLY	J	553	1,4	9,10,11	0.67	0	6,11,13	0.54	0
1	MLY	D	107	1	9,10,11	0.51	0	6,11,13	0.34	0
1	MLY	M	272	1	9,10,11	1.02	1 (11%)	6,11,13	0.56	0
1	MLY	J	367	1	9,10,11	0.61	0	6,11,13	0.37	0
1	MLY	J	827	1	9,10,11	0.75	0	6,11,13	0.48	0
1	MLY	S	369	1	9,10,11	0.70	0	6,11,13	0.46	0
1	MLY	S	613	1	9,10,11	0.56	0	6,11,13	0.63	0
1	MLY	M	553	1,4	9,10,11	0.68	0	6,11,13	0.53	0
1	MLY	D	553	1,4	9,10,11	0.68	0	6,11,13	0.55	0
1	MLY	J	35	1	9,10,11	0.72	0	6,11,13	0.38	0
1	MLY	S	348	1	9,10,11	0.80	0	6,11,13	0.47	0
1	MLY	D	367	1	9,10,11	0.61	0	6,11,13	0.38	0
1	MLY	A	839	1	9,10,11	0.68	0	6,11,13	0.81	0
1	MLY	G	617	1	9,10,11	0.95	1 (11%)	6,11,13	0.35	0
1	MLY	J	764	1	9,10,11	0.83	0	6,11,13	0.37	0
1	MLY	J	617	1	9,10,11	0.96	1 (11%)	6,11,13	0.33	0
1	MLY	G	55	1	9,10,11	0.73	0	6,11,13	0.79	0
1	MLY	S	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.83	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	A	272	1	9,10,11	1.00	1 (11%)	6,11,13	0.56	0
1	MLY	G	486	1	9,10,11	0.65	0	6,11,13	0.39	0
1	MLY	J	486	1	9,10,11	0.63	0	6,11,13	0.40	0
1	MLY	M	486	1	9,10,11	0.64	0	6,11,13	0.40	0
1	MLY	A	348	1	9,10,11	0.82	0	6,11,13	0.48	0
1	MLY	M	659	1	9,10,11	0.81	0	6,11,13	0.57	0
1	MLY	D	617	1	9,10,11	0.96	1 (11%)	6,11,13	0.34	0
1	MLY	M	87	1	9,10,11	1.20	1 (11%)	6,11,13	0.43	0
1	MLY	M	236	1	9,10,11	0.80	1 (11%)	6,11,13	0.47	0
1	MLY	D	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.48	0
1	MLY	D	35	1	9,10,11	0.73	0	6,11,13	0.37	0
1	MLY	M	296	1	9,10,11	0.71	0	6,11,13	0.36	0
1	MLY	D	296	1	9,10,11	0.64	0	6,11,13	0.38	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	G	551	1	-	3/8/9/11	-
1	MLY	S	353	1	-	4/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	M	504	1	-	4/8/9/11	-
1	MLY	M	107	1	-	2/8/9/11	-
1	MLY	S	833	1	-	6/8/9/11	-
1	MLY	J	528	1	-	5/8/9/11	-
1	MLY	S	827	1	-	0/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	A	353	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	S	84	1	-	4/8/9/11	-
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	S	528	1	-	4/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	M	353	1	-	4/8/9/11	-
1	MLY	M	385	1	-	2/8/9/11	-
1	MLY	A	553	1,4	-	4/8/9/11	-
1	MLY	S	295	1	-	2/8/9/11	-
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	S	681	1	-	4/8/9/11	-
1	MLY	S	837	1	-	5/8/9/11	-
1	MLY	A	613	1	-	4/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	S	30	1	-	2/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	D	130	1	-	5/8/9/11	-
1	MLY	D	528	1	-	4/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	G	553	1,4	-	4/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	M	505	1	-	5/8/9/11	-
1	MLY	S	415	1	-	3/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	S	551	1	-	3/8/9/11	-
1	MLY	S	768	1	-	4/8/9/11	-
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	G	353	1	-	4/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	D	827	1	-	0/8/9/11	-
1	MLY	M	551	1	-	3/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	M	84	1	-	4/8/9/11	-
1	MLY	M	348	1	-	5/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	M	598	1	-	5/8/9/11	-
1	MLY	S	486	1	-	2/8/9/11	-
1	MLY	M	190	1	-	5/8/9/11	-
1	MLY	M	59	1	-	3/8/9/11	-
1	MLY	A	617	1	-	1/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	S	35	1	-	3/8/9/11	-
1	MLY	A	30	1	-	2/8/9/11	-
1	MLY	S	764	1	-	2/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	A	827	1	-	0/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	49	1	-	3/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	G	837	1	-	5/8/9/11	-
1	MLY	D	30	1	-	2/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	J	837	1	-	5/8/9/11	-
1	MLY	M	30	1	-	2/8/9/11	-
1	MLY	S	272	1	-	3/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	S	431	1	-	4/8/9/11	-
1	MLY	S	617	1	-	1/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	S	385	1	-	2/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-
1	MLY	S	63	1	-	4/8/9/11	-
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	M	138	1	-	4/8/9/11	-
1	MLY	G	528	1	-	4/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	S	367	1	-	2/8/9/11	-
1	MLY	S	600	1	-	3/8/9/11	-
1	MLY	M	827	1	-	0/8/9/11	-
1	MLY	S	87	1	-	2/8/9/11	-
1	MLY	M	764	1	-	2/8/9/11	-
1	MLY	M	782	1	-	6/8/9/11	-
1	MLY	S	49	1	-	3/8/9/11	-
1	MLY	S	436	1	-	4/8/9/11	-
1	MLY	M	617	1	-	1/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	839	1	-	3/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	G	613	1	-	4/8/9/11	-
1	MLY	J	613	1	-	4/8/9/11	-
1	MLY	M	613	1	-	4/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-
1	MLY	M	600	1	-	3/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	A	528	1	-	5/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	M	19	1	-	4/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	J	30	1	-	2/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	M	431	1	-	4/8/9/11	-
1	MLY	A	837	1	-	5/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	M	528	1	-	5/8/9/11	-
1	MLY	M	295	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	295	1	-	2/8/9/11	-
1	MLY	S	19	1	-	4/8/9/11	-
1	MLY	M	768	1	-	4/8/9/11	-
1	MLY	M	681	1	-	4/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	G	30	1	-	2/8/9/11	-
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	D	837	1	-	5/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	M	63	1	-	4/8/9/11	-
1	MLY	M	833	1	-	6/8/9/11	-
1	MLY	M	837	1	-	5/8/9/11	-
1	MLY	S	55	1	-	6/8/9/11	-
1	MLY	S	505	1	-	5/8/9/11	-
1	MLY	S	504	1	-	4/8/9/11	-
1	MLY	S	59	1	-	3/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	G	827	1	-	0/8/9/11	-
1	MLY	M	369	1	-	2/8/9/11	-
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	M	415	1	-	3/8/9/11	-
1	MLY	G	190	1	-	5/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	S	598	1	-	5/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-
1	MLY	M	55	1	-	6/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	M	367	1	-	2/8/9/11	-
1	MLY	S	839	1	-	3/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	D	190	1	-	5/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	S	659	1	-	3/8/9/11	-
1	MLY	D	613	1	-	4/8/9/11	-
1	MLY	G	19	1	-	4/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	M	35	1	-	3/8/9/11	-
1	MLY	S	107	1	-	2/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-
1	MLY	S	130	1	-	5/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-
1	MLY	S	553	1	-	4/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	S	782	1	-	6/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-
1	MLY	S	248	1	-	6/8/9/11	-
1	MLY	J	190	1	-	5/8/9/11	-
1	MLY	M	130	1	-	5/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	M	49	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	S	236	1	-	3/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	S	296	1	-	4/8/9/11	-
1	MLY	M	839	1	-	3/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	M	436	1	-	4/8/9/11	-
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	S	190	1	-	5/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	M	248	1	-	6/8/9/11	-
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	G	764	1	-	2/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	A	190	1	-	5/8/9/11	-
1	MLY	J	553	1,4	-	4/8/9/11	-
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	M	272	1	-	3/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	J	827	1	-	0/8/9/11	-
1	MLY	S	369	1	-	2/8/9/11	-
1	MLY	S	613	1	-	4/8/9/11	-
1	MLY	M	553	1,4	-	4/8/9/11	-
1	MLY	D	553	1,4	-	5/8/9/11	-
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	S	348	1	-	5/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	G	617	1	-	1/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	J	617	1	-	1/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	S	138	1	-	4/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	M	486	1	-	2/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	M	659	1	-	3/8/9/11	-
1	MLY	D	617	1	-	1/8/9/11	-
1	MLY	M	87	1	-	2/8/9/11	-
1	MLY	M	236	1	-	3/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	M	296	1	-	4/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-

All (82) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.81	1.48	1.53
1	G	138	MLY	CB-CA	-3.70	1.48	1.53
1	J	138	MLY	CB-CA	-3.67	1.48	1.53
1	M	138	MLY	CB-CA	-3.66	1.48	1.53
1	S	138	MLY	CB-CA	-3.62	1.48	1.53
1	A	138	MLY	CB-CA	-3.62	1.48	1.53
1	D	19	MLY	CB-CA	-3.20	1.49	1.53
1	G	87	MLY	CB-CA	-3.16	1.49	1.53
1	J	19	MLY	CB-CA	-3.16	1.49	1.53
1	S	19	MLY	CB-CA	-3.14	1.49	1.53
1	S	87	MLY	CB-CA	-3.13	1.49	1.53
1	M	19	MLY	CB-CA	-3.10	1.49	1.53
1	J	87	MLY	CB-CA	-3.07	1.49	1.53
1	A	87	MLY	CB-CA	-3.07	1.49	1.53
1	G	19	MLY	CB-CA	-3.07	1.49	1.53
1	M	87	MLY	CB-CA	-3.04	1.49	1.53
1	D	436	MLY	CB-CA	-3.00	1.49	1.53
1	A	19	MLY	CB-CA	-2.97	1.49	1.53
1	M	436	MLY	CB-CA	-2.96	1.49	1.53
1	S	49	MLY	CB-CA	-2.94	1.49	1.53
1	D	87	MLY	CB-CA	-2.90	1.49	1.53
1	J	436	MLY	CB-CA	-2.88	1.49	1.53
1	G	436	MLY	CB-CA	-2.87	1.49	1.53
1	S	436	MLY	CB-CA	-2.85	1.49	1.53
1	A	436	MLY	CB-CA	-2.83	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	49	MLY	CB-CA	-2.81	1.49	1.53
1	M	49	MLY	CB-CA	-2.81	1.49	1.53
1	J	49	MLY	CB-CA	-2.80	1.49	1.53
1	G	49	MLY	CB-CA	-2.79	1.49	1.53
1	M	272	MLY	CB-CA	-2.78	1.49	1.53
1	A	49	MLY	CB-CA	-2.75	1.49	1.53
1	A	272	MLY	CB-CA	-2.73	1.49	1.53
1	S	272	MLY	CB-CA	-2.72	1.49	1.53
1	J	272	MLY	CB-CA	-2.70	1.50	1.53
1	G	272	MLY	CB-CA	-2.65	1.50	1.53
1	G	190	MLY	CB-CA	-2.57	1.50	1.53
1	J	190	MLY	CB-CA	-2.57	1.50	1.53
1	S	190	MLY	CB-CA	-2.56	1.50	1.53
1	A	190	MLY	CB-CA	-2.55	1.50	1.53
1	D	272	MLY	CB-CA	-2.54	1.50	1.53
1	J	833	MLY	CB-CA	-2.52	1.50	1.53
1	S	385	MLY	CB-CA	-2.51	1.50	1.53
1	S	833	MLY	CB-CA	-2.50	1.50	1.53
1	M	385	MLY	CB-CA	-2.50	1.50	1.53
1	J	385	MLY	CB-CA	-2.50	1.50	1.53
1	M	190	MLY	CB-CA	-2.49	1.50	1.53
1	D	190	MLY	CB-CA	-2.40	1.50	1.53
1	M	833	MLY	CB-CA	-2.40	1.50	1.53
1	A	385	MLY	CB-CA	-2.39	1.50	1.53
1	G	385	MLY	CB-CA	-2.39	1.50	1.53
1	J	505	MLY	CB-CA	-2.35	1.50	1.53
1	M	505	MLY	CB-CA	-2.32	1.50	1.53
1	A	598	MLY	CB-CA	-2.32	1.50	1.53
1	D	385	MLY	CB-CA	-2.31	1.50	1.53
1	S	505	MLY	CB-CA	-2.31	1.50	1.53
1	M	598	MLY	CB-CA	-2.30	1.50	1.53
1	S	617	MLY	CB-CA	-2.29	1.50	1.53
1	G	598	MLY	CB-CA	-2.28	1.50	1.53
1	D	598	MLY	CB-CA	-2.28	1.50	1.53
1	M	617	MLY	CB-CA	-2.28	1.50	1.53
1	S	598	MLY	CB-CA	-2.25	1.50	1.53
1	D	617	MLY	CB-CA	-2.25	1.50	1.53
1	G	833	MLY	CB-CA	-2.24	1.50	1.53
1	A	833	MLY	CB-CA	-2.23	1.50	1.53
1	G	505	MLY	CB-CA	-2.22	1.50	1.53
1	J	617	MLY	CB-CA	-2.22	1.50	1.53
1	J	598	MLY	CB-CA	-2.21	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	833	MLY	CB-CA	-2.20	1.50	1.53
1	A	617	MLY	CB-CA	-2.19	1.50	1.53
1	A	505	MLY	CB-CA	-2.17	1.50	1.53
1	G	617	MLY	CB-CA	-2.16	1.50	1.53
1	A	236	MLY	CA-N	-2.15	1.41	1.48
1	M	236	MLY	CA-N	-2.14	1.41	1.48
1	D	236	MLY	CA-N	-2.14	1.41	1.48
1	J	236	MLY	CA-N	-2.12	1.41	1.48
1	G	236	MLY	CA-N	-2.11	1.41	1.48
1	D	505	MLY	CB-CA	-2.11	1.50	1.53
1	S	236	MLY	CA-N	-2.11	1.41	1.48
1	G	348	MLY	CB-CA	-2.09	1.50	1.53
1	G	833	MLY	CA-N	-2.04	1.42	1.48
1	A	63	MLY	CB-CA	-2.02	1.50	1.53
1	D	833	MLY	CA-N	-2.02	1.42	1.48

There are no bond angle outliers.

There are no chirality outliers.

All (958) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	19	MLY	C-CA-CB-CG
1	A	49	MLY	N-CA-CB-CG
1	A	49	MLY	C-CA-CB-CG
1	A	55	MLY	N-CA-CB-CG
1	A	55	MLY	C-CA-CB-CG
1	A	84	MLY	C-CA-CB-CG
1	A	130	MLY	C-CA-CB-CG
1	A	248	MLY	N-CA-CB-CG
1	A	248	MLY	C-CA-CB-CG
1	A	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

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

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

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Mol	Chain	Res	Type	Atoms
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
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	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	D	84	MLY	CD-CE-NZ-CH1
1	G	84	MLY	CD-CE-NZ-CH1
1	J	84	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	M	84	MLY	CD-CE-NZ-CH1
1	S	84	MLY	CD-CE-NZ-CH1
1	A	59	MLY	CD-CE-NZ-CH1
1	A	59	MLY	CD-CE-NZ-CH2
1	A	63	MLY	CD-CE-NZ-CH1
1	A	84	MLY	CD-CE-NZ-CH2
1	A	130	MLY	CD-CE-NZ-CH1
1	A	130	MLY	CD-CE-NZ-CH2
1	A	138	MLY	CD-CE-NZ-CH1
1	A	138	MLY	CD-CE-NZ-CH2
1	A	190	MLY	CD-CE-NZ-CH2
1	A	248	MLY	CD-CE-NZ-CH1
1	A	272	MLY	CD-CE-NZ-CH1
1	A	296	MLY	CD-CE-NZ-CH1
1	A	296	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-CH2
1	A	385	MLY	CD-CE-NZ-CH1
1	A	385	MLY	CD-CE-NZ-CH2
1	A	431	MLY	CD-CE-NZ-CH2
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-CH2
1	A	764	MLY	CD-CE-NZ-CH1
1	A	764	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH1
1	A	782	MLY	CD-CE-NZ-CH1
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-CH1
1	A	837	MLY	CD-CE-NZ-CH2
1	A	839	MLY	CD-CE-NZ-CH2
1	D	55	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

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Mol	Chain	Res	Type	Atoms
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-CH2
1	D	248	MLY	CD-CE-NZ-CH1
1	D	272	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH1
1	D	296	MLY	CD-CE-NZ-CH2
1	D	353	MLY	CD-CE-NZ-CH1
1	D	353	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH2
1	D	385	MLY	CD-CE-NZ-CH1
1	D	385	MLY	CD-CE-NZ-CH2
1	D	431	MLY	CD-CE-NZ-CH2
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-CH2
1	D	764	MLY	CD-CE-NZ-CH1
1	D	764	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH1
1	D	782	MLY	CD-CE-NZ-CH1
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-CH1
1	D	837	MLY	CD-CE-NZ-CH2
1	D	839	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-CH2
1	G	248	MLY	CD-CE-NZ-CH1
1	G	272	MLY	CD-CE-NZ-CH1
1	G	296	MLY	CD-CE-NZ-CH1
1	G	296	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	353	MLY	CD-CE-NZ-CH1
1	G	353	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-CH2
1	G	505	MLY	CD-CE-NZ-CH2
1	G	528	MLY	CD-CE-NZ-CH1
1	G	528	MLY	CD-CE-NZ-CH2
1	G	553	MLY	CD-CE-NZ-CH2
1	G	600	MLY	CD-CE-NZ-CH2
1	G	764	MLY	CD-CE-NZ-CH1
1	G	764	MLY	CD-CE-NZ-CH2
1	G	768	MLY	CD-CE-NZ-CH1
1	G	782	MLY	CD-CE-NZ-CH1
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-CH1
1	G	837	MLY	CD-CE-NZ-CH2
1	G	839	MLY	CD-CE-NZ-CH2
1	J	55	MLY	CD-CE-NZ-CH2
1	J	59	MLY	CD-CE-NZ-CH1
1	J	59	MLY	CD-CE-NZ-CH2
1	J	63	MLY	CD-CE-NZ-CH1
1	J	84	MLY	CD-CE-NZ-CH2
1	J	130	MLY	CD-CE-NZ-CH1
1	J	130	MLY	CD-CE-NZ-CH2
1	J	138	MLY	CD-CE-NZ-CH1
1	J	138	MLY	CD-CE-NZ-CH2
1	J	190	MLY	CD-CE-NZ-CH2
1	J	248	MLY	CD-CE-NZ-CH1
1	J	272	MLY	CD-CE-NZ-CH1
1	J	296	MLY	CD-CE-NZ-CH1
1	J	296	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-CH2
1	J	385	MLY	CD-CE-NZ-CH1
1	J	385	MLY	CD-CE-NZ-CH2
1	J	431	MLY	CD-CE-NZ-CH2
1	J	504	MLY	CD-CE-NZ-CH2
1	J	505	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
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-CH2
1	J	764	MLY	CD-CE-NZ-CH1
1	J	764	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH1
1	J	782	MLY	CD-CE-NZ-CH1
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-CH1
1	J	837	MLY	CD-CE-NZ-CH2
1	J	839	MLY	CD-CE-NZ-CH2
1	M	55	MLY	CD-CE-NZ-CH2
1	M	59	MLY	CD-CE-NZ-CH1
1	M	59	MLY	CD-CE-NZ-CH2
1	M	63	MLY	CD-CE-NZ-CH1
1	M	84	MLY	CD-CE-NZ-CH2
1	M	130	MLY	CD-CE-NZ-CH1
1	M	130	MLY	CD-CE-NZ-CH2
1	M	138	MLY	CD-CE-NZ-CH1
1	M	138	MLY	CD-CE-NZ-CH2
1	M	190	MLY	CD-CE-NZ-CH2
1	M	248	MLY	CD-CE-NZ-CH1
1	M	272	MLY	CD-CE-NZ-CH1
1	M	296	MLY	CD-CE-NZ-CH1
1	M	296	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-CH2
1	M	385	MLY	CD-CE-NZ-CH1
1	M	385	MLY	CD-CE-NZ-CH2
1	M	431	MLY	CD-CE-NZ-CH2
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-CH2
1	M	764	MLY	CD-CE-NZ-CH1
1	M	764	MLY	CD-CE-NZ-CH2
1	M	768	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	M	782	MLY	CD-CE-NZ-CH1
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-CH1
1	M	837	MLY	CD-CE-NZ-CH2
1	M	839	MLY	CD-CE-NZ-CH2
1	S	55	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-CH2
1	S	248	MLY	CD-CE-NZ-CH1
1	S	272	MLY	CD-CE-NZ-CH1
1	S	296	MLY	CD-CE-NZ-CH1
1	S	296	MLY	CD-CE-NZ-CH2
1	S	353	MLY	CD-CE-NZ-CH1
1	S	353	MLY	CD-CE-NZ-CH2
1	S	367	MLY	CD-CE-NZ-CH2
1	S	385	MLY	CD-CE-NZ-CH1
1	S	385	MLY	CD-CE-NZ-CH2
1	S	431	MLY	CD-CE-NZ-CH2
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-CH2
1	S	764	MLY	CD-CE-NZ-CH1
1	S	764	MLY	CD-CE-NZ-CH2
1	S	768	MLY	CD-CE-NZ-CH1
1	S	782	MLY	CD-CE-NZ-CH1
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-CH1
1	S	837	MLY	CD-CE-NZ-CH2
1	S	839	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
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	G	35	MLY	CG-CD-CE-NZ
1	J	87	MLY	CG-CD-CE-NZ
1	A	35	MLY	CG-CD-CE-NZ
1	A	87	MLY	CG-CD-CE-NZ
1	D	35	MLY	CG-CD-CE-NZ
1	D	87	MLY	CG-CD-CE-NZ
1	G	87	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	M	35	MLY	CG-CD-CE-NZ
1	M	87	MLY	CG-CD-CE-NZ
1	S	35	MLY	CG-CD-CE-NZ
1	S	87	MLY	CG-CD-CE-NZ
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	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	J	138	MLY	CG-CD-CE-NZ
1	S	138	MLY	CG-CD-CE-NZ
1	G	138	MLY	CG-CD-CE-NZ
1	M	138	MLY	CG-CD-CE-NZ
1	A	55	MLY	CD-CE-NZ-CH2
1	A	190	MLY	CD-CE-NZ-CH1
1	A	248	MLY	CD-CE-NZ-CH2
1	A	272	MLY	CD-CE-NZ-CH2
1	A	348	MLY	CD-CE-NZ-CH1
1	A	348	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	A	367	MLY	CD-CE-NZ-CH1
1	A	431	MLY	CD-CE-NZ-CH1
1	A	504	MLY	CD-CE-NZ-CH2
1	A	505	MLY	CD-CE-NZ-CH1
1	A	600	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH2
1	D	190	MLY	CD-CE-NZ-CH1
1	D	248	MLY	CD-CE-NZ-CH2
1	D	272	MLY	CD-CE-NZ-CH2
1	D	348	MLY	CD-CE-NZ-CH1
1	D	348	MLY	CD-CE-NZ-CH2
1	D	367	MLY	CD-CE-NZ-CH1
1	D	431	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH1
1	D	504	MLY	CD-CE-NZ-CH2
1	D	505	MLY	CD-CE-NZ-CH1
1	D	600	MLY	CD-CE-NZ-CH1
1	D	659	MLY	CD-CE-NZ-CH2
1	G	55	MLY	CD-CE-NZ-CH2
1	G	190	MLY	CD-CE-NZ-CH1
1	G	248	MLY	CD-CE-NZ-CH2
1	G	272	MLY	CD-CE-NZ-CH2
1	G	348	MLY	CD-CE-NZ-CH1
1	G	348	MLY	CD-CE-NZ-CH2
1	G	367	MLY	CD-CE-NZ-CH1
1	G	367	MLY	CD-CE-NZ-CH2
1	G	431	MLY	CD-CE-NZ-CH1
1	G	504	MLY	CD-CE-NZ-CH1
1	G	505	MLY	CD-CE-NZ-CH1
1	G	600	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH2
1	J	190	MLY	CD-CE-NZ-CH1
1	J	248	MLY	CD-CE-NZ-CH2
1	J	348	MLY	CD-CE-NZ-CH1
1	J	348	MLY	CD-CE-NZ-CH2
1	J	367	MLY	CD-CE-NZ-CH1
1	J	431	MLY	CD-CE-NZ-CH1
1	J	504	MLY	CD-CE-NZ-CH1
1	J	505	MLY	CD-CE-NZ-CH1
1	J	600	MLY	CD-CE-NZ-CH1
1	J	659	MLY	CD-CE-NZ-CH2
1	M	190	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	M	248	MLY	CD-CE-NZ-CH2
1	M	348	MLY	CD-CE-NZ-CH1
1	M	348	MLY	CD-CE-NZ-CH2
1	M	367	MLY	CD-CE-NZ-CH1
1	M	431	MLY	CD-CE-NZ-CH1
1	M	504	MLY	CD-CE-NZ-CH1
1	M	504	MLY	CD-CE-NZ-CH2
1	M	505	MLY	CD-CE-NZ-CH1
1	M	600	MLY	CD-CE-NZ-CH1
1	M	659	MLY	CD-CE-NZ-CH2
1	S	190	MLY	CD-CE-NZ-CH1
1	S	248	MLY	CD-CE-NZ-CH2
1	S	348	MLY	CD-CE-NZ-CH1
1	S	348	MLY	CD-CE-NZ-CH2
1	S	367	MLY	CD-CE-NZ-CH1
1	S	431	MLY	CD-CE-NZ-CH1
1	S	504	MLY	CD-CE-NZ-CH2
1	S	505	MLY	CD-CE-NZ-CH1
1	S	600	MLY	CD-CE-NZ-CH1
1	S	659	MLY	CD-CE-NZ-CH2
1	A	84	MLY	CG-CD-CE-NZ
1	A	130	MLY	CG-CD-CE-NZ
1	D	130	MLY	CG-CD-CE-NZ
1	G	84	MLY	CG-CD-CE-NZ
1	G	130	MLY	CG-CD-CE-NZ
1	J	84	MLY	CG-CD-CE-NZ
1	J	130	MLY	CG-CD-CE-NZ
1	M	84	MLY	CG-CD-CE-NZ
1	M	130	MLY	CG-CD-CE-NZ
1	S	84	MLY	CG-CD-CE-NZ
1	S	130	MLY	CG-CD-CE-NZ
1	A	504	MLY	CG-CD-CE-NZ
1	G	504	MLY	CG-CD-CE-NZ
1	S	504	MLY	CG-CD-CE-NZ
1	A	681	MLY	CG-CD-CE-NZ
1	D	84	MLY	CG-CD-CE-NZ
1	D	681	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	681	MLY	CG-CD-CE-NZ
1	A	295	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
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	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	107	MLY	CD-CE-NZ-CH1
1	A	369	MLY	CD-CE-NZ-CH2
1	A	768	MLY	CD-CE-NZ-CH2
1	D	107	MLY	CD-CE-NZ-CH1
1	D	369	MLY	CD-CE-NZ-CH2
1	D	768	MLY	CD-CE-NZ-CH2
1	G	107	MLY	CD-CE-NZ-CH1
1	G	369	MLY	CD-CE-NZ-CH2
1	G	504	MLY	CD-CE-NZ-CH2
1	G	768	MLY	CD-CE-NZ-CH2
1	J	107	MLY	CD-CE-NZ-CH1
1	J	272	MLY	CD-CE-NZ-CH2
1	J	369	MLY	CD-CE-NZ-CH2
1	J	768	MLY	CD-CE-NZ-CH2
1	M	107	MLY	CD-CE-NZ-CH1
1	M	369	MLY	CD-CE-NZ-CH2
1	M	768	MLY	CD-CE-NZ-CH2
1	S	107	MLY	CD-CE-NZ-CH1
1	S	272	MLY	CD-CE-NZ-CH2
1	S	369	MLY	CD-CE-NZ-CH2
1	S	768	MLY	CD-CE-NZ-CH2
1	A	598	MLY	CG-CD-CE-NZ
1	G	598	MLY	CG-CD-CE-NZ
1	J	598	MLY	CG-CD-CE-NZ
1	M	598	MLY	CG-CD-CE-NZ
1	S	598	MLY	CG-CD-CE-NZ
1	D	598	MLY	CG-CD-CE-NZ
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

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Mol	Chain	Res	Type	Atoms
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	A	63	MLY	CD-CE-NZ-CH2
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	63	MLY	CD-CE-NZ-CH2
1	D	87	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	D	659	MLY	CD-CE-NZ-CH1
1	G	55	MLY	CD-CE-NZ-CH1
1	G	63	MLY	CD-CE-NZ-CH2
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	G	659	MLY	CD-CE-NZ-CH1
1	J	55	MLY	CD-CE-NZ-CH1
1	J	63	MLY	CD-CE-NZ-CH2
1	J	87	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	J	659	MLY	CD-CE-NZ-CH1
1	M	55	MLY	CD-CE-NZ-CH1
1	M	63	MLY	CD-CE-NZ-CH2
1	M	87	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	M	659	MLY	CD-CE-NZ-CH1
1	S	55	MLY	CD-CE-NZ-CH1
1	S	63	MLY	CD-CE-NZ-CH2
1	S	87	MLY	CD-CE-NZ-CH1
1	S	415	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	S	415	MLY	CD-CE-NZ-CH2
1	S	504	MLY	CD-CE-NZ-CH1
1	S	553	MLY	CD-CE-NZ-CH1
1	S	659	MLY	CD-CE-NZ-CH1
1	G	415	MLY	CA-CB-CG-CD
1	J	415	MLY	CA-CB-CG-CD
1	A	19	MLY	CD-CE-NZ-CH2
1	A	55	MLY	CD-CE-NZ-CH1
1	A	87	MLY	CD-CE-NZ-CH1
1	A	659	MLY	CD-CE-NZ-CH1
1	D	19	MLY	CD-CE-NZ-CH2
1	G	19	MLY	CD-CE-NZ-CH2
1	G	87	MLY	CD-CE-NZ-CH1
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	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	551	MLY	CG-CD-CE-NZ
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	272	MLY	CE-CD-CG-CB
1	D	272	MLY	CE-CD-CG-CB
1	G	272	MLY	CE-CD-CG-CB
1	J	272	MLY	CE-CD-CG-CB
1	M	272	MLY	CE-CD-CG-CB
1	S	272	MLY	CE-CD-CG-CB
1	M	30	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	G	296	MLY	CE-CD-CG-CB
1	J	30	MLY	CE-CD-CG-CB
1	J	296	MLY	CE-CD-CG-CB
1	M	296	MLY	CE-CD-CG-CB
1	S	30	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	S	296	MLY	CE-CD-CG-CB
1	A	505	MLY	CE-CD-CG-CB
1	D	505	MLY	CE-CD-CG-CB
1	G	505	MLY	CE-CD-CG-CB
1	J	505	MLY	CE-CD-CG-CB
1	M	505	MLY	CE-CD-CG-CB
1	S	505	MLY	CE-CD-CG-CB
1	A	839	MLY	CD-CE-NZ-CH1
1	D	839	MLY	CD-CE-NZ-CH1
1	G	839	MLY	CD-CE-NZ-CH1
1	J	107	MLY	CD-CE-NZ-CH2
1	J	839	MLY	CD-CE-NZ-CH1
1	M	107	MLY	CD-CE-NZ-CH2
1	M	839	MLY	CD-CE-NZ-CH1
1	S	107	MLY	CD-CE-NZ-CH2
1	S	839	MLY	CD-CE-NZ-CH1
1	D	30	MLY	CE-CD-CG-CB
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	D	49	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	A	49	MLY	CE-CD-CG-CB
1	G	49	MLY	CE-CD-CG-CB
1	J	49	MLY	CE-CD-CG-CB
1	M	49	MLY	CE-CD-CG-CB
1	S	49	MLY	CE-CD-CG-CB
1	D	768	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	M	353	MLY	CE-CD-CG-CB
1	J	768	MLY	CE-CD-CG-CB
1	S	353	MLY	CE-CD-CG-CB
1	S	768	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	A	190	MLY	CE-CD-CG-CB
1	A	768	MLY	CE-CD-CG-CB
1	D	190	MLY	CE-CD-CG-CB
1	G	190	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	G	768	MLY	CE-CD-CG-CB
1	M	190	MLY	CE-CD-CG-CB
1	M	768	MLY	CE-CD-CG-CB
1	S	190	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB
1	A	782	MLY	CE-CD-CG-CB
1	D	782	MLY	CE-CD-CG-CB
1	A	369	MLY	CE-CD-CG-CB
1	G	369	MLY	CE-CD-CG-CB
1	G	782	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	369	MLY	CE-CD-CG-CB
1	J	369	MLY	CE-CD-CG-CB
1	S	369	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH2
1	A	236	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	M	782	MLY	CE-CD-CG-CB
1	D	190	MLY	CG-CD-CE-NZ
1	A	436	MLY	CA-CB-CG-CD
1	A	837	MLY	CA-CB-CG-CD
1	D	436	MLY	CA-CB-CG-CD
1	D	837	MLY	CA-CB-CG-CD
1	G	436	MLY	CA-CB-CG-CD
1	G	837	MLY	CA-CB-CG-CD
1	J	436	MLY	CA-CB-CG-CD
1	J	837	MLY	CA-CB-CG-CD
1	M	436	MLY	CA-CB-CG-CD
1	M	837	MLY	CA-CB-CG-CD
1	S	436	MLY	CA-CB-CG-CD
1	S	837	MLY	CA-CB-CG-CD
1	J	190	MLY	CG-CD-CE-NZ
1	S	190	MLY	CG-CD-CE-NZ
1	G	190	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	M	190	MLY	CG-CD-CE-NZ
1	A	190	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	A	833	MLY	CE-CD-CG-CB
1	M	833	MLY	CE-CD-CG-CB
1	A	431	MLY	CA-CB-CG-CD
1	D	236	MLY	CA-CB-CG-CD
1	D	431	MLY	CA-CB-CG-CD
1	G	431	MLY	CA-CB-CG-CD
1	J	236	MLY	CA-CB-CG-CD
1	J	431	MLY	CA-CB-CG-CD
1	M	236	MLY	CA-CB-CG-CD
1	M	431	MLY	CA-CB-CG-CD
1	S	236	MLY	CA-CB-CG-CD
1	S	431	MLY	CA-CB-CG-CD
1	A	55	MLY	CG-CD-CE-NZ
1	J	55	MLY	CG-CD-CE-NZ
1	D	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	55	MLY	CG-CD-CE-NZ
1	M	617	MLY	CE-CD-CG-CB
1	S	55	MLY	CG-CD-CE-NZ
1	A	617	MLY	CE-CD-CG-CB
1	S	617	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	A	348	MLY	C-CA-CB-CG
1	D	348	MLY	C-CA-CB-CG
1	G	348	MLY	C-CA-CB-CG
1	J	348	MLY	C-CA-CB-CG
1	M	348	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	S	348	MLY	C-CA-CB-CG
1	A	551	MLY	CE-CD-CG-CB
1	D	551	MLY	CE-CD-CG-CB
1	G	55	MLY	CG-CD-CE-NZ
1	G	551	MLY	CE-CD-CG-CB
1	J	551	MLY	CE-CD-CG-CB
1	S	551	MLY	CE-CD-CG-CB
1	M	551	MLY	CE-CD-CG-CB
1	G	59	MLY	CE-CD-CG-CB
1	A	59	MLY	CE-CD-CG-CB
1	D	55	MLY	CE-CD-CG-CB
1	D	59	MLY	CE-CD-CG-CB
1	G	55	MLY	CE-CD-CG-CB
1	J	59	MLY	CE-CD-CG-CB
1	J	553	MLY	CE-CD-CG-CB
1	M	59	MLY	CE-CD-CG-CB
1	S	59	MLY	CE-CD-CG-CB
1	A	553	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	553	MLY	CE-CD-CG-CB
1	S	55	MLY	CE-CD-CG-CB
1	S	553	MLY	CE-CD-CG-CB
1	A	55	MLY	CE-CD-CG-CB
1	D	553	MLY	CE-CD-CG-CB
1	J	138	MLY	CA-CB-CG-CD
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	G	248	MLY	CE-CD-CG-CB
1	S	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB
1	S	248	MLY	CE-CD-CG-CB
1	G	138	MLY	CA-CB-CG-CD
1	M	138	MLY	CA-CB-CG-CD
1	D	248	MLY	CE-CD-CG-CB
1	D	431	MLY	CE-CD-CG-CB
1	G	431	MLY	CE-CD-CG-CB
1	M	248	MLY	CE-CD-CG-CB
1	A	35	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	35	MLY	CE-CD-CG-CB
1	G	35	MLY	CE-CD-CG-CB
1	J	35	MLY	CE-CD-CG-CB
1	M	35	MLY	CE-CD-CG-CB
1	S	35	MLY	CE-CD-CG-CB
1	D	528	MLY	CG-CD-CE-NZ
1	G	528	MLY	CG-CD-CE-NZ
1	M	528	MLY	CG-CD-CE-NZ
1	A	528	MLY	CG-CD-CE-NZ
1	J	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	138	MLY	CA-CB-CG-CD
1	A	296	MLY	CA-CB-CG-CD
1	D	138	MLY	CA-CB-CG-CD
1	J	296	MLY	CA-CB-CG-CD
1	M	296	MLY	CA-CB-CG-CD
1	S	138	MLY	CA-CB-CG-CD
1	S	296	MLY	CA-CB-CG-CD
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	D	296	MLY	CA-CB-CG-CD
1	G	296	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	600	MLY	CE-CD-CG-CB
1	S	436	MLY	CE-CD-CG-CB
1	S	600	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	M	598	MLY	CE-CD-CG-CB
1	S	598	MLY	CE-CD-CG-CB
1	A	486	MLY	CE-CD-CG-CB
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	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	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	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

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

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Mol	Chain	Res	Type	Atoms
1	J	19	MLY	CE-CD-CG-CB
1	M	19	MLY	CE-CD-CG-CB
1	S	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	S	613	MLY	CE-CD-CG-CB
1	A	613	MLY	CE-CD-CG-CB
1	M	613	MLY	CE-CD-CG-CB
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	A	63	MLY	C-CA-CB-CG
1	A	353	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	G	63	MLY	C-CA-CB-CG
1	G	353	MLY	C-CA-CB-CG
1	J	63	MLY	C-CA-CB-CG
1	J	353	MLY	C-CA-CB-CG
1	M	63	MLY	C-CA-CB-CG
1	M	353	MLY	C-CA-CB-CG
1	S	63	MLY	C-CA-CB-CG
1	S	353	MLY	C-CA-CB-CG
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
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	348	MLY	CE-CD-CG-CB
1	D	348	MLY	CE-CD-CG-CB
1	G	348	MLY	CE-CD-CG-CB
1	A	613	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	G	613	MLY	CA-CB-CG-CD
1	J	613	MLY	CA-CB-CG-CD
1	S	613	MLY	CA-CB-CG-CD
1	M	613	MLY	CA-CB-CG-CD
1	A	190	MLY	CA-CB-CG-CD
1	A	528	MLY	CA-CB-CG-CD
1	D	190	MLY	CA-CB-CG-CD
1	D	613	MLY	CA-CB-CG-CD
1	G	190	MLY	CA-CB-CG-CD
1	J	190	MLY	CA-CB-CG-CD
1	J	528	MLY	CA-CB-CG-CD
1	M	190	MLY	CA-CB-CG-CD
1	M	528	MLY	CA-CB-CG-CD
1	S	190	MLY	CA-CB-CG-CD

There are no ring outliers.

186 monomers are involved in 820 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	M	107	MLY	4	0
1	J	528	MLY	3	0
1	G	369	MLY	1	0
1	A	782	MLY	8	0
1	D	839	MLY	7	0
1	J	49	MLY	4	0
1	J	295	MLY	7	0
1	A	659	MLY	2	0
1	A	296	MLY	3	0
1	G	63	MLY	4	0
1	J	63	MLY	4	0
1	S	84	MLY	14	0
1	D	598	MLY	1	0
1	S	528	MLY	3	0
1	G	272	MLY	1	0
1	J	272	MLY	1	0
1	A	553	MLY	17	0
1	S	295	MLY	6	0
1	S	837	MLY	1	0
1	D	272	MLY	1	0
1	G	348	MLY	4	0
1	J	415	MLY	1	0
1	S	30	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	528	MLY	3	0
1	G	553	MLY	26	0
1	J	768	MLY	9	0
1	G	138	MLY	1	0
1	M	505	MLY	2	0
1	S	415	MLY	1	0
1	G	87	MLY	3	0
1	G	436	MLY	2	0
1	A	138	MLY	1	0
1	A	369	MLY	1	0
1	J	600	MLY	1	0
1	J	84	MLY	43	0
1	A	55	MLY	1	0
1	A	415	MLY	1	0
1	A	598	MLY	1	0
1	D	827	MLY	3	0
1	M	551	MLY	1	0
1	D	782	MLY	71	0
1	A	551	MLY	2	0
1	J	598	MLY	1	0
1	D	659	MLY	2	0
1	M	84	MLY	23	0
1	M	348	MLY	6	0
1	J	505	MLY	9	0
1	M	598	MLY	1	0
1	S	486	MLY	3	0
1	M	190	MLY	2	0
1	M	59	MLY	2	0
1	A	617	MLY	1	0
1	D	248	MLY	2	0
1	A	30	MLY	1	0
1	S	764	MLY	31	0
1	J	107	MLY	3	0
1	A	486	MLY	3	0
1	D	49	MLY	3	0
1	G	837	MLY	1	0
1	D	30	MLY	1	0
1	J	87	MLY	3	0
1	J	436	MLY	2	0
1	J	837	MLY	1	0
1	M	30	MLY	1	0
1	S	272	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	49	MLY	3	0
1	S	617	MLY	1	0
1	D	348	MLY	6	0
1	G	296	MLY	2	0
1	S	63	MLY	3	0
1	A	764	MLY	10	0
1	D	138	MLY	1	0
1	M	138	MLY	1	0
1	G	528	MLY	3	0
1	S	600	MLY	1	0
1	S	87	MLY	3	0
1	M	764	MLY	5	0
1	M	782	MLY	3	0
1	S	49	MLY	3	0
1	S	436	MLY	2	0
1	M	617	MLY	1	0
1	G	839	MLY	4	0
1	G	768	MLY	9	0
1	A	505	MLY	24	0
1	J	659	MLY	2	0
1	M	600	MLY	1	0
1	D	600	MLY	1	0
1	A	768	MLY	12	0
1	A	528	MLY	3	0
1	D	87	MLY	3	0
1	J	30	MLY	1	0
1	J	138	MLY	1	0
1	D	764	MLY	6	0
1	G	600	MLY	1	0
1	J	296	MLY	3	0
1	J	348	MLY	5	0
1	A	295	MLY	6	0
1	G	248	MLY	2	0
1	J	55	MLY	1	0
1	G	59	MLY	2	0
1	A	837	MLY	1	0
1	J	59	MLY	2	0
1	M	528	MLY	3	0
1	M	295	MLY	6	0
1	D	295	MLY	6	0
1	M	768	MLY	1	0
1	J	839	MLY	15	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	30	MLY	1	0
1	D	63	MLY	4	0
1	D	837	MLY	1	0
1	G	659	MLY	2	0
1	M	63	MLY	4	0
1	M	837	MLY	1	0
1	S	55	MLY	1	0
1	S	505	MLY	8	0
1	S	59	MLY	2	0
1	G	84	MLY	16	0
1	G	827	MLY	1	0
1	M	369	MLY	1	0
1	G	782	MLY	1	0
1	J	782	MLY	1	0
1	M	415	MLY	1	0
1	G	190	MLY	2	0
1	A	59	MLY	2	0
1	S	598	MLY	1	0
1	M	55	MLY	1	0
1	G	107	MLY	2	0
1	D	551	MLY	2	0
1	D	59	MLY	2	0
1	D	768	MLY	1	0
1	S	839	MLY	15	0
1	A	87	MLY	3	0
1	D	190	MLY	2	0
1	A	436	MLY	3	0
1	S	659	MLY	2	0
1	M	35	MLY	13	0
1	S	107	MLY	3	0
1	D	415	MLY	1	0
1	J	248	MLY	2	0
1	S	553	MLY	3	0
1	A	504	MLY	4	0
1	S	782	MLY	1	0
1	A	107	MLY	2	0
1	G	415	MLY	1	0
1	A	63	MLY	3	0
1	D	55	MLY	1	0
1	S	248	MLY	2	0
1	J	190	MLY	2	0
1	A	49	MLY	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	486	MLY	3	0
1	G	295	MLY	7	0
1	M	49	MLY	3	0
1	S	296	MLY	3	0
1	M	839	MLY	7	0
1	M	436	MLY	2	0
1	D	436	MLY	3	0
1	S	190	MLY	2	0
1	A	600	MLY	1	0
1	M	248	MLY	2	0
1	G	764	MLY	8	0
1	A	248	MLY	2	0
1	G	598	MLY	1	0
1	A	190	MLY	2	0
1	J	553	MLY	27	0
1	D	107	MLY	3	0
1	M	272	MLY	1	0
1	S	369	MLY	1	0
1	M	553	MLY	17	0
1	D	553	MLY	16	0
1	S	348	MLY	6	0
1	A	839	MLY	9	0
1	G	617	MLY	1	0
1	J	764	MLY	7	0
1	J	617	MLY	1	0
1	G	55	MLY	1	0
1	S	138	MLY	1	0
1	A	272	MLY	1	0
1	G	486	MLY	3	0
1	J	486	MLY	3	0
1	M	486	MLY	3	0
1	A	348	MLY	5	0
1	M	659	MLY	2	0
1	D	617	MLY	1	0
1	M	87	MLY	3	0
1	M	296	MLY	3	0
1	D	296	MLY	3	0

## 5.5 Carbohydrates

There are no monosaccharides 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

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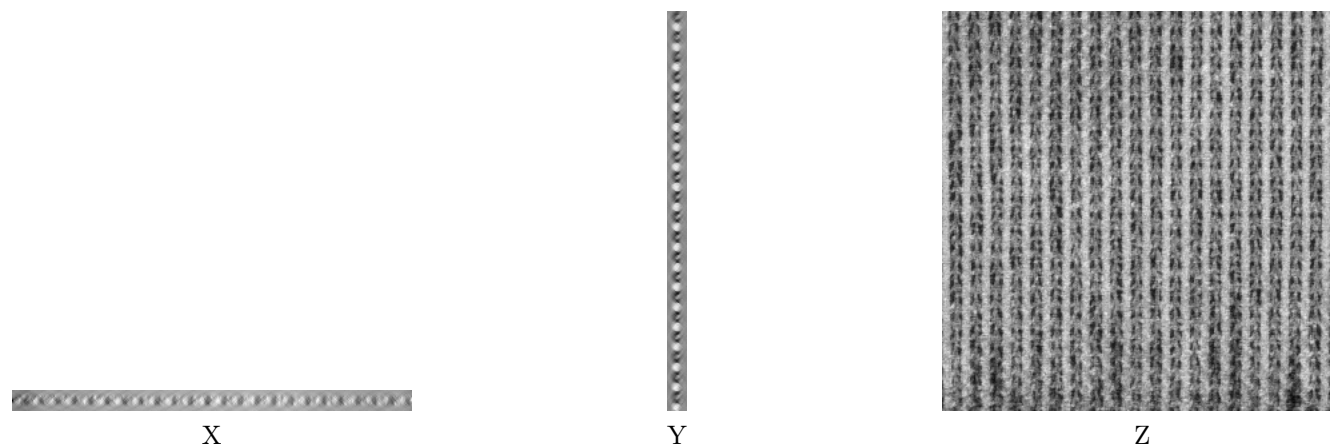
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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	4:LYS	C	5:ALA	N	2.61
1	L	4:LYS	C	5:ALA	N	2.61
1	O	4:LYS	C	5:ALA	N	2.61
1	U	4:LYS	C	5:ALA	N	2.61
1	A	769:ALA	C	770:GLY	N	2.49
1	S	806:MET	C	807:VAL	N	2.47
1	S	770:GLY	C	771:LEU	N	2.43
1	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
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](#)

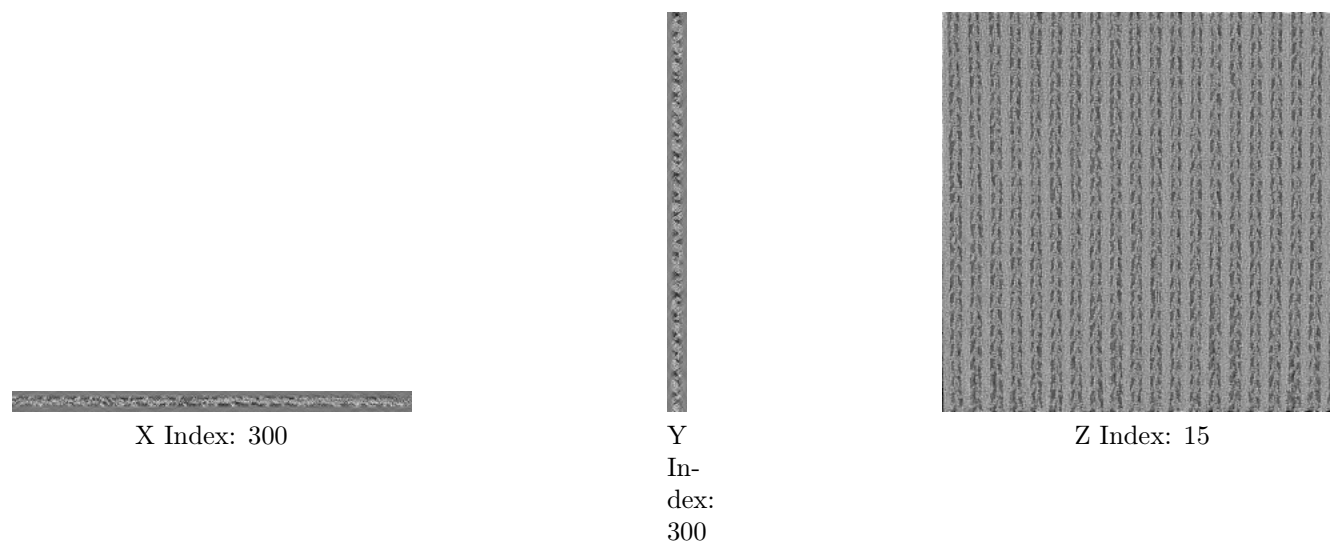
This section contains visualisations of the EMDB entry EMD-1001. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

### 6.1 Orthogonal projections [i](#)



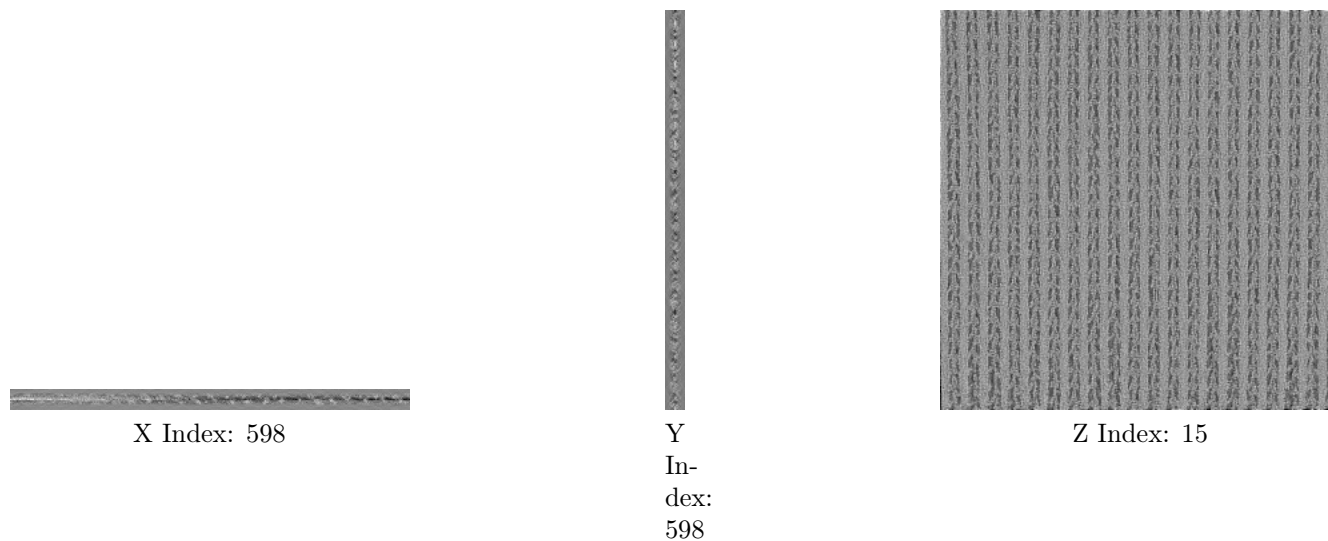
The images above show the tomogram projected in three orthogonal directions.

### 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.

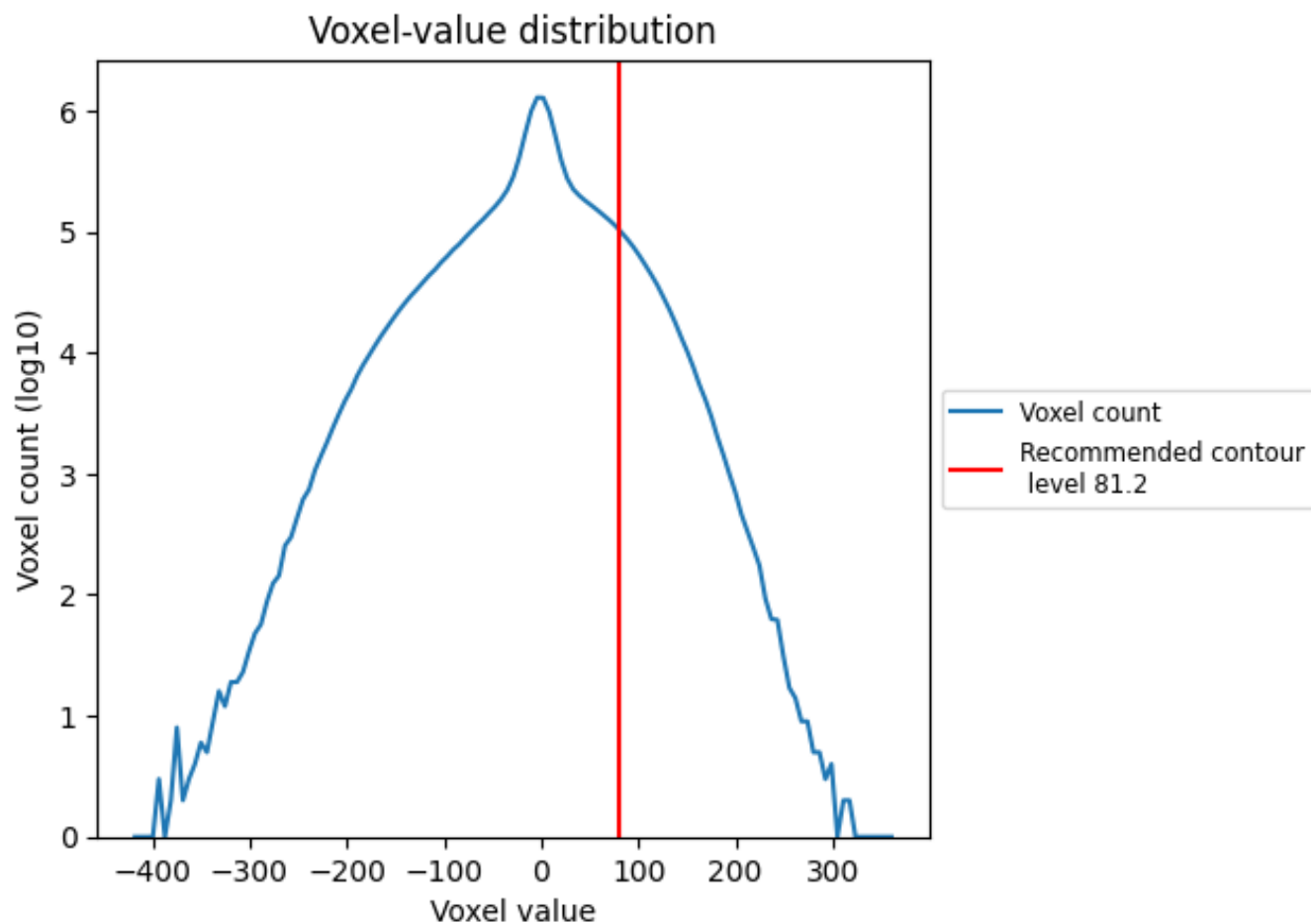
### 6.4 Mask visualisation [i](#)

This section was not generated.

## 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.

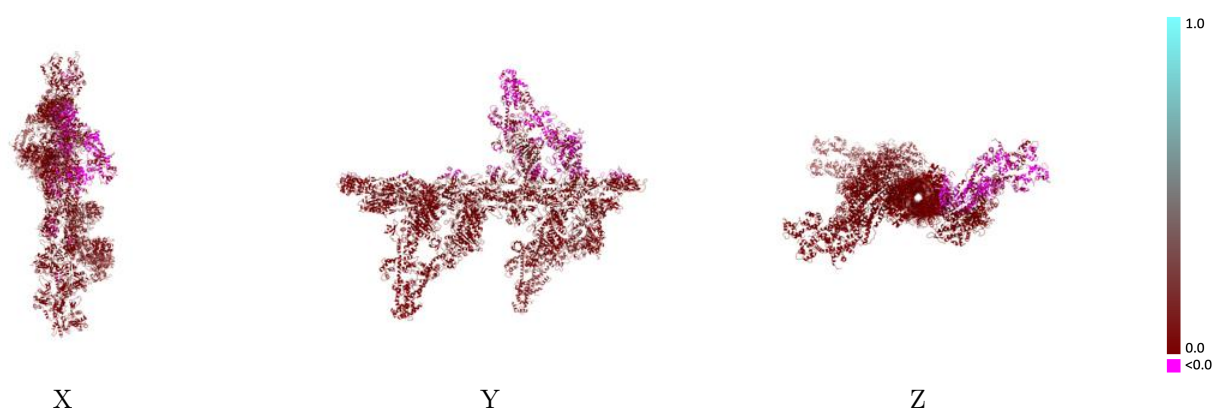
## 8 Map-model fit [i](#)

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](#)

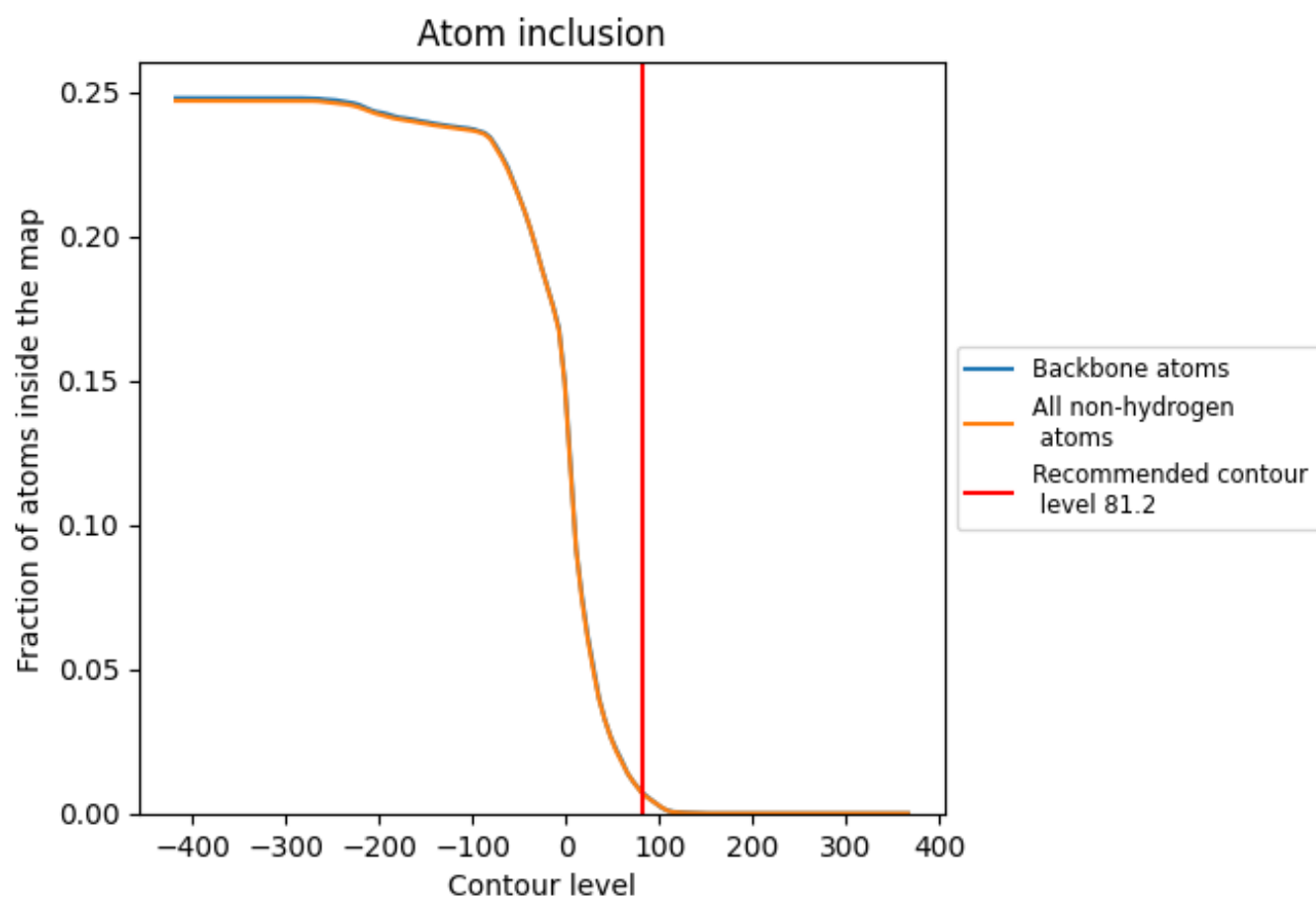


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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	 0.0072	 0.0010
1	 0.0000	 -0.0020
2	 0.0284	 -0.0000
3	 0.0000	 0.0000
4	 0.0000	 0.0030
5	 0.0000	 0.0000
6	 0.0000	 0.0020
7	 0.0000	 0.0020
8	 0.0000	 0.0000
9	 0.0000	 0.0020
A	 0.0000	 0.0000
B	 0.0000	 0.0000
C	 0.0000	 0.0000
D	 0.0018	 0.0000
E	 0.1029	 0.0190
F	 0.0395	 -0.0110
G	 0.0000	 0.0000
H	 0.0000	 0.0000
I	 0.0000	 0.0000
J	 0.0111	 0.0050
K	 0.0000	 -0.0200
L	 0.1697	 0.0230
M	 0.0000	 0.0000
N	 0.0000	 0.0000
O	 0.0000	 0.0000
S	 0.0000	 0.0000
T	 0.0000	 0.0000
U	 0.0000	 0.0000
V	 0.0000	 0.0000
W	 0.0000	 0.0020
X	 0.0537	 0.0000
Y	 0.0000	 0.0020
Z	 0.0000	 0.0000

