



## Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 02:10 PM EST

PDB ID : 1O1E  
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 : 2002-11-19  
Resolution : 70.00 Å (reported)  
Based on initial models : 1ATN, 2MYS

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

We welcome your comments at [validation@mail.wwpdb.org](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

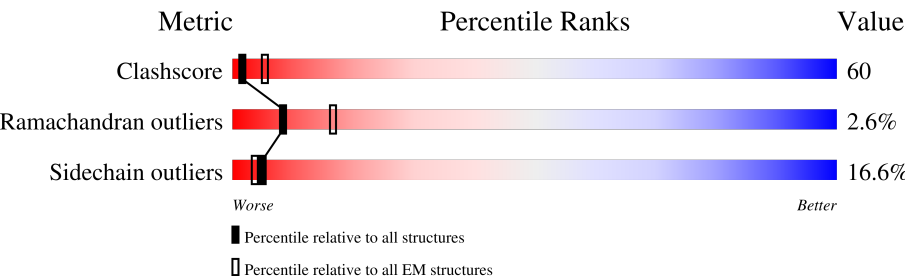
# 1 Overall quality at a glance ⓘ

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% 50% 21% .</div> </div>
1	D	840	<div> <div>100%</div> <div>26% 51% 19% .</div> </div>
1	G	840	<div> <div>100%</div> <div>25% 50% 21% .</div> </div>
1	J	840	<div> <div>100%</div> <div>25% 50% 21% .</div> </div>
1	M	840	<div> <div>100%</div> <div>25% 51% 20% .</div> </div>
1	P	840	<div> <div>100%</div> <div>25% 50% 20% 5%</div> </div>
2	B	145	<div> <div>100%</div> <div>67% 24% 6% .</div> </div>
2	E	145	<div> <div>100%</div> <div>63% 28% 6% .</div> </div>

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Mol	Chain	Length	Quality of chain
2	H	145	<div>100%</div> <div>63% 28% 6% .</div>
2	K	145	<div>100%</div> <div>63% 27% 6% .</div>
2	N	145	<div>100%</div> <div>66% 26% 6% .</div>
2	Q	145	<div>100%</div> <div>65% 26% 6% .</div>
3	C	147	<div>100%</div> <div>60% 38% .</div>
3	F	147	<div>100%</div> <div>61% 37% .</div>
3	I	147	<div>99%</div> <div>61% 37% .</div>
3	L	147	<div>100%</div> <div>60% 38% .</div>
3	O	147	<div>100%</div> <div>59% 38% .</div>
3	R	147	<div>100%</div> <div>59% 38% .</div>
4	1	375	<div>93%</div> <div>57% 31% 9% ..</div>
4	2	375	<div>99%</div> <div>60% 31% 6% ..</div>
4	3	375	<div>99%</div> <div>62% 29% 6% ..</div>
4	4	375	<div>99%</div> <div>62% 30% 6% ..</div>
4	5	375	<div>99%</div> <div>63% 28% 6% ..</div>
4	6	375	<div>99%</div> <div>64% 28% 6% ..</div>
4	7	375	<div>99%</div> <div>64% 27% 7% ..</div>
4	8	375	<div>99%</div> <div>59% 31% 8% ..</div>
4	9	375	<div>99%</div> <div>57% 33% 8% ..</div>
4	V	375	<div>99%</div> <div>55% 34% 9% ..</div>
4	W	375	<div>94%</div> <div>55% 34% 9% ..</div>
4	X	375	<div>99%</div> <div>61% 30% 7% ..</div>
4	Y	375	<div>98%</div> <div>61% 30% 7% ..</div>
4	Z	375	<div>99%</div> <div>58% 31% 8% ..</div>

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	837	-	-	X	-
1	MLY	D	553	-	-	X	-
1	MLY	D	764	-	-	X	-
1	MLY	D	782	-	-	X	-
1	MLY	G	505	-	-	X	-
1	MLY	G	553	-	-	X	-
1	MLY	G	84	-	-	X	-
1	MLY	J	505	-	-	X	-
1	MLY	J	553	-	-	X	-
1	MLY	J	839	-	-	X	-
1	MLY	J	84	-	-	X	-
1	MLY	M	839	-	-	X	-
1	MLY	M	84	-	-	X	-
1	MLY	P	782	-	-	X	-
1	MLY	P	839	-	-	X	-
1	MLY	P	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	P	840	Total	C	N	O	S	0	0
			6797	4382	1135	1243	37		

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

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

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

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

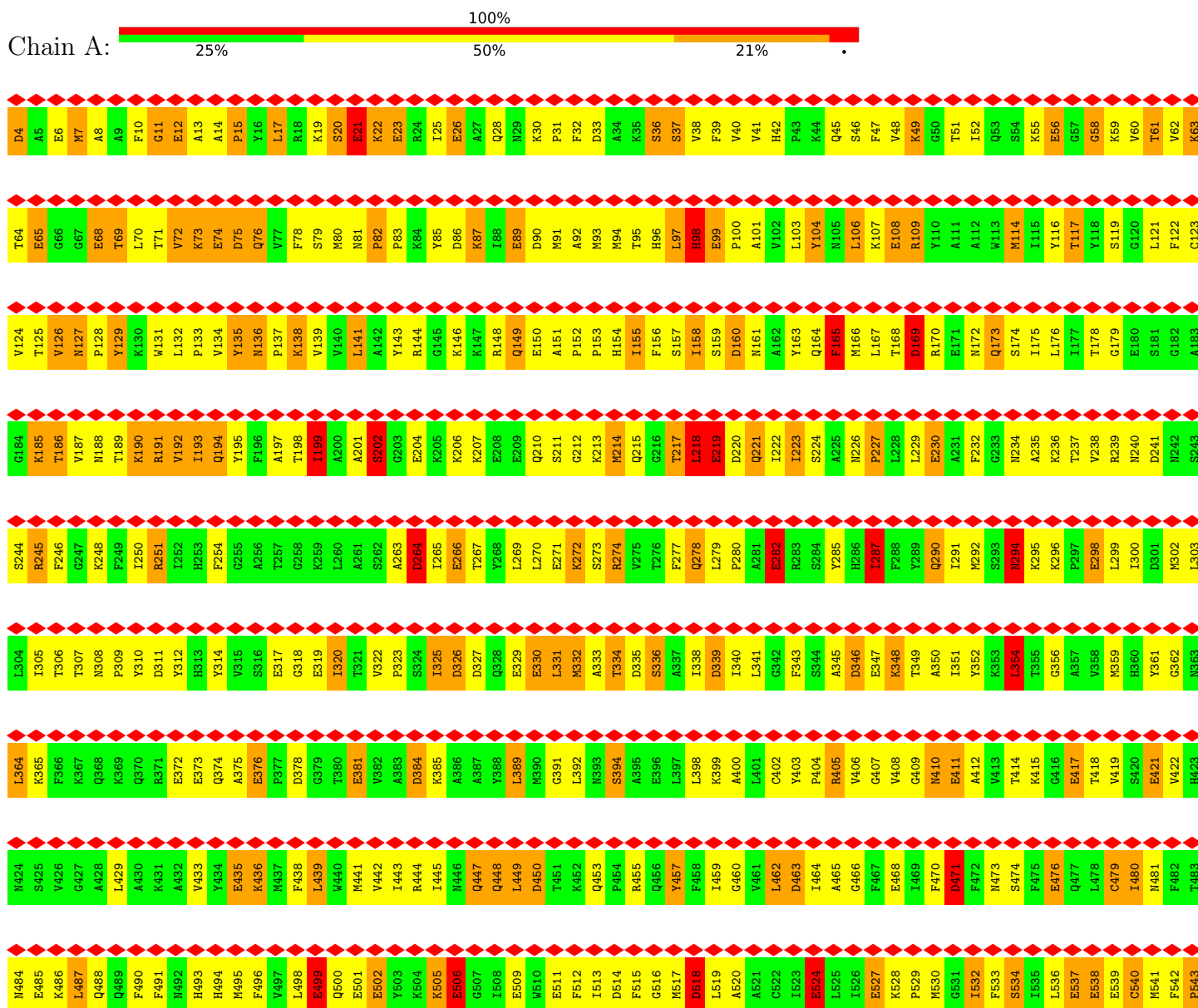
- Molecule 4 is a protein called SKELETAL MUSCLE ACTIN.

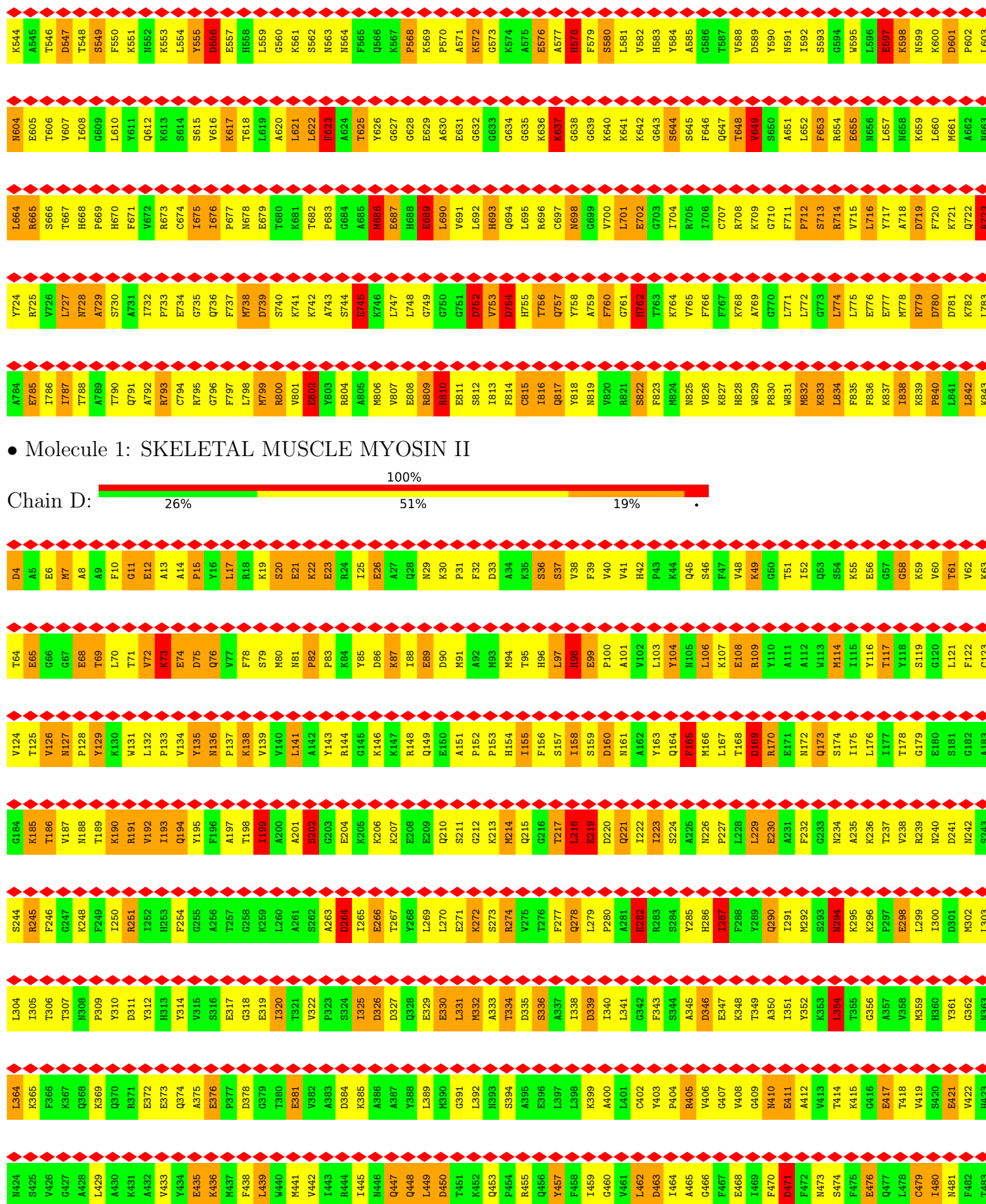
Mol	Chain	Residues	Atoms					AltConf	Trace
4	1	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	2	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	3	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	4	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20		
4	5	372	Total	C	N	O	S	0	0
			2906	1836	489	561	20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

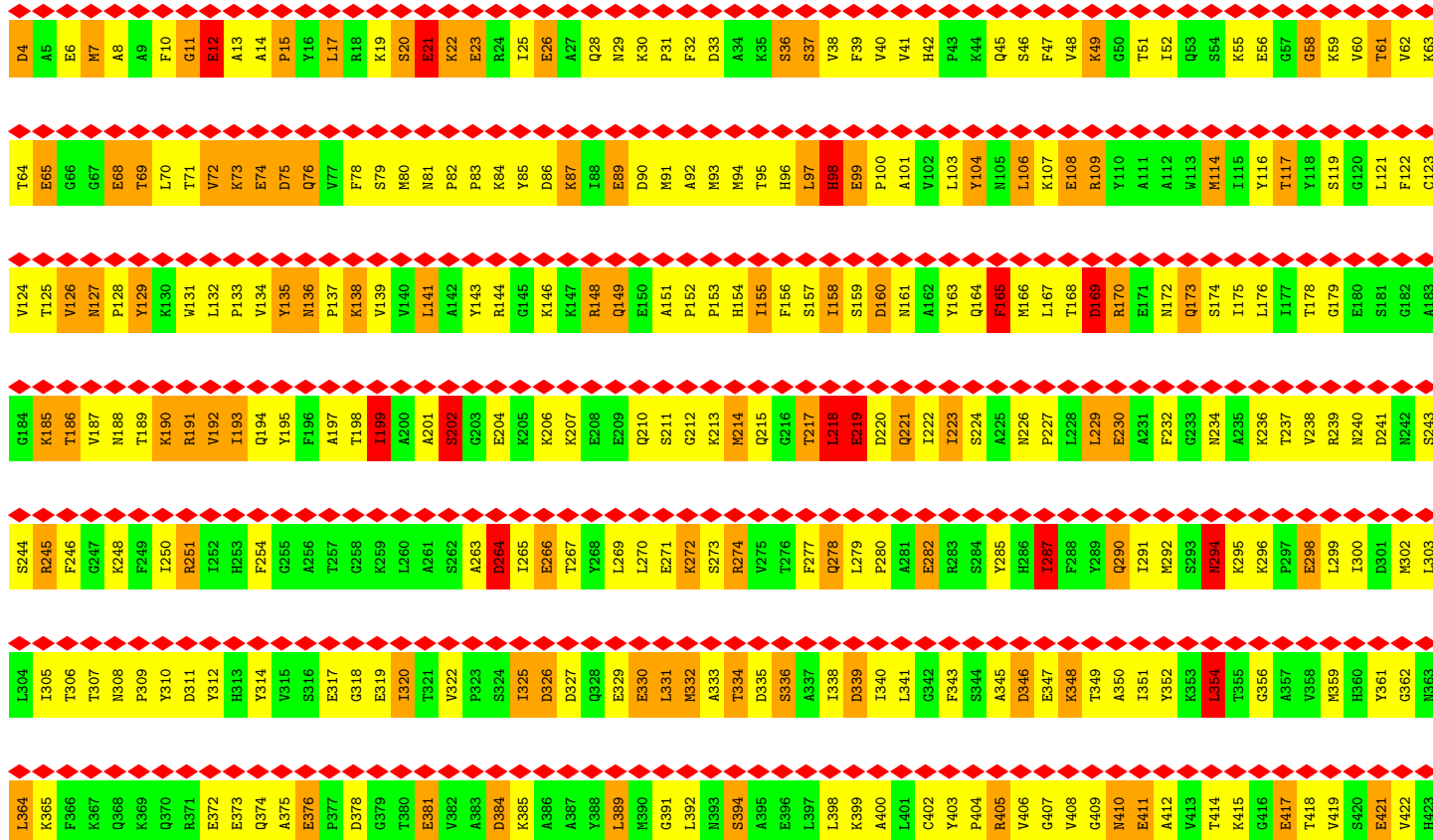
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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



N424	N484	K544	N604	L664	Y724	A784	N424	N484	K544	N604	L664	Y724	A784
S425	E485	A545	E505	R665	R725	E785	S425	E485	A545	E505	R665	R725	E785
V426	K486	T546	T606	S666	V726	I786	V426	K486	T546	T606	S666	V726	I786
G427	L487	D547	V607	T667	L727	T787	G427	L487	D547	V607	T667	L727	T787
N428	Q488	T548	I608	H668	M728	T788	N428	Q488	T548	I608	H668	M728	T788
L429	Q489	S549	G609	P669	A729	A789	L429	Q489	S549	G609	P669	A729	A789
A430	F490	F550	L610	H670	S730	T790	A430	F490	F550	L610	H670	S730	T790
K431	F491	K551	Y611	F671	A731	Q791	K431	F491	K551	Y611	F671	A731	Q791
A432	N492	N552	Q612	V672	I732	A792	A432	N492	N552	Q612	V672	I732	A792
V433	H493	K553	K613	R673	P733	R793	V433	H493	K553	K613	R673	P733	R793
Y434	H494	L554	S614	C674	E734	C794	Y434	H494	L554	S614	C674	E734	C794
E435	M495	Y555	S615	I675	G735	R795	E435	M495	Y555	S615	I675	G735	R795
K436	F496	D556	V616	I676	Q736	G796	K436	F496	D556	V616	I676	Q736	G796
M437	V497	V557	K617	P677	F737	F797	M437	V497	V557	K617	P677	F737	F797
F438	L498	H558	T618	N678	M738	L798	F438	L498	H558	T618	N678	M738	L798
L439	E499	L559	L619	E679	D739	M799	L439	E499	L559	L619	E679	D739	M799
Y440	Q500	G560	A620	T680	S740	R800	Y440	Q500	G560	A620	T680	S740	R800
M441	E501	K561	L621	K681	K741	V601	M441	E501	K561	L621	K681	K741	V601
V442	E502	S562	L622	T682	K742	E502	V442	E502	S562	L622	T682	K742	E502
I443	Y503	N563	F623	P683	A743	R603	I443	Y503	N563	F623	P683	A743	R603
R444	K504	N564	G624	G684	S744	R604	R444	K504	N564	G624	G684	S744	R604
I445	K505	F565	T625	A685	E745	A605	I445	K505	F565	T625	A685	E745	A605
N446	E506	Q566	Y626	M686	K746	M606	N446	E506	Q566	Y626	M686	K746	M606
Q447	G507	K567	G627	H687	L747	V607	Q447	G507	K567	G627	H687	L747	V607
Q448	I508	P568	G628	H688	L748	E508	Q448	I508	P568	G628	H688	L748	E508
L449	E509	K569	E629	E689	G749	M609	L449	E509	K569	E629	E689	G749	M609
D450	W510	P570	A630	L690	G750	R610	D450	W510	P570	A630	L690	G750	R610
T451	E511	A571	E631	V691	G751	E611	T451	E511	A571	E631	V691	G751	E611
K452	F512	K572	G632	L692	D752	S612	K452	F512	K572	G632	L692	D752	S612
Q453	I513	G573	H633	H693	V753	L613	Q453	I513	G573	H633	H693	V753	L613
P454	D514	K574	G634	Q694	D754	F614	P454	D514	K574	G634	Q694	D754	F614
R455	F515	A575	G635	L695	H755	C615	R455	F515	A575	G635	L695	H755	C615
Q456	G516	E576	K636	R696	T756	L616	Q456	G516	E576	K636	R696	T756	L616
Y457	M517	A577	K637	C697	Q757	Q617	Y457	M517	A577	K637	C697	Q757	Q617
F458	D518	H578	G638	N698	Y758	Y618	F458	D518	H578	G638	N698	Y758	Y618
I459	L519	F579	G639	G699	A759	N619	I459	L519	F579	G639	G699	A759	N619
G460	A520	S580	K640	V700	F760	W620	G460	A520	S580	K640	V700	F760	W620
V461	A521	L581	K641	L701	G761	R621	V461	A521	L581	K641	L701	G761	R621
L462	C522	V582	K642	E702	H762	S622	L462	C522	V582	K642	E702	H762	S622
D463	I523	H583	G643	G703	T763	F623	D463	I523	H583	G643	G703	T763	F623
I464	E524	Y584	S644	I704	K764	M624	I464	E524	Y584	S644	I704	K764	M624
A465	L525	A585	S645	R705	V765	N625	A465	L525	A585	S645	R705	V765	N625
G466	I526	G586	F646	I706	F766	W626	G466	I526	G586	F646	I706	F766	W626
F467	E527	T587	Q647	C707	F767	K627	F467	E527	T587	Q647	C707	F767	K627
E468	K528	V588	T648	R708	K768	H628	E468	K528	V588	T648	R708	K768	H628
I469	P529	D589	V649	K709	A769	W629	I469	P529	D589	V649	K709	A769	W629
F470	M530	Y590	S550	G710	G770	P630	F470	M530	Y590	S550	G710	G770	P630
D471	G531	N591	A651	F711	L771	W631	D471	G531	N591	A651	F711	L771	W631
F472	I532	L592	L652	P712	L772	M632	F472	I532	L592	L652	P712	L772	M632
N473	F533	S593	F653	S713	G773	K633	N473	F533	S593	F653	S713	G773	K633
S474	S534	G594	R654	R714	L774	L634	S474	S534	G594	R654	R714	L774	L634
F475	I535	W595	E655	V715	L775	P635	F475	I535	W595	E655	V715	L775	P635
E476	L536	L596	M656	L716	E776	F636	E476	L536	L596	M656	L716	E776	F636
Q477	E537	R597	L657	T717	K778	H638	Q477	E537	R597	L657	T717	K778	H638
L478	E538	K598	M558	A718	M778	W638	L478	E538	K598	M558	A718	M778	W638
C479	E539	N599	K659	D719	R779	K639	C479	E539	N599	K659	D719	R779	K639
I480	C540	K600	L660	F720	D780	P640	I480	C540	K600	L660	F720	D780	P640
N481	M541	D601	M661	K721	D781	L641	N481	M541	D601	M661	K721	D781	L641
F482	F542	P602	A662	Q722	K782	L642	F482	F542	P602	A662	Q722	K782	L642
T483	P543	L603	N663	R723	L783	K643	T483	P543	L603	N663	R723	L783	K643

## ● Molecule 1: SKELETAL MUSCLE MYOSIN II



L304	I305	T306	T307	N308	P309	Y310	D311	Y312	H313	Y314	V315	S316	E317	G318	E319	I320	T321	V322	P323	S324	T325	D326	D327	Q328	E329	E330	L331	K332	A333	T334	D335	S336	A337	I338	D339	T340	L341	G342	F343	S344	A345	D346	E347	K348	T349	A350	T351	Y352	K353	L354	T355	G356	A357	V358	K359	H360	Y361	G362	N363	
S244	R245	T246	G247	K248	F249	L250	R251	L252	H253	F254	G255	A256	T257	Q258	K259	L260	A261	S262	E263	D264	T265	E266	T267	T268	Y269	L269	L270	E271	K272	S273	R274	V275	T276	F277	Q278	L279	P280	A281	E282	R283	S284	Y285	H286	T287	F288	Y289	Q290	T291	M292	N293	K294	K295	K296	E297	E298	L299	T300	D301	M302	L303
G184	K185	T186	V187	N188	T189	K190	R191	V192	H193	Q194	Y195	F196	A197	T198	I199	A200	A201	S202	G203	E204	K205	K206	K207	E208	E209	Q210	S211	G212	K213	M214	Q215	G216	T217	L218	E219	D220	Q221	I222	I223	S224	A225	N226	P227	L228	L229	E230	A231	F232	G233	N234	A235	K236	T237	V238	R239	N240	D241	N242	S243	
V124	T125	V126	N127	P128	Y129	K130	W131	L132	P133	Q134	Y135	N136	P137	K138	V139	V140	L141	A142	Y143	R144	G145	K146	K147	R148	Q149	E150	A151	P152	P153	H154	I155	F156	S157	I158	S159	D160	A161	A162	Y163	Q164	F165	M166	L167	T168	D169	R170	E171	N172	Q173	S174	I175	L176	I177	T178	G179	E180	G182	A183		
T64	E65	G66	G67	E68	T69	L70	T71	V72	K73	E74	D75	Q76	V77	F78	S79	M80	N81	P82	P83	K84	Y85	D86	K87	T88	E89	D90	M91	A92	M93	M94	T95	H96	L97	H98	E99	P100	A101	V102	L103	Y104	N105	L106	K107	E108	R109	Y110	A111	A112	Q113	M114	I115	Y116	T117	Y118	S119	G120	L121	F122	C123	
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	C35	L36	S37	V38	F39	V40	V41	H42	P43	K44	Q45	S46	F47	V48	H49	G50	T51	I52	Q53	S54	K55	E56	G57	E58	K59	V60	T61	V62	C63	

A784	E785	I786	T787	T788	A789	S730	A731	I732	P733	E734	G735	Q736	F737	M738	D739	S740	K741	K742	A743	S744	E745	K746	L747	L748	G749	G750	G751	D752	V753	D754	C815	L816	Q817	Y818	N819	V820	R821	S822	F823	M824	N825	V826	K827	H828	V829	P830	M831	N832	K833	L834	F835	P836	K837	T838	K839	P840	L841	L842	K843
Y724	R725	V726	L727	H728	A729	S730	A731	I732	P733	E734	G735	Q736	F737	M738	D739	S740	K741	K742	A743	S744	E745	K746	L747	L748	G749	G750	G751	D752	V753	D754	C815	L816	Q817	Y818	N819	V820	R821	S822	F823	M824	N825	V826	K827	H828	V829	P830	M831	N832	K833	L834	F835	P836	K837	T838	K839	P840	L841	L842	K843
L664	R665	S666	T667	H668	P669	H670	F671	V672	K673	C674	I675	I676	P677	N678	E679	T680	K681	T682	P683	G684	A685	M686	G687	H688	E689	L690	V691	L692	H693	Q694	L695	R696	C697	N698	G699	V700	L701	E702	G703	I704	R705	I706	G707	R708	K709	G710	F711	L712	S713	R714	V715	L716	Y717	A718	D719	F720	D721	Q722	R723
N604	E605	T606	V607	I608	G609	L610	Y611	Q612	K613	S614	S615	V616	K617	T618	L619	A620	L621	L622	F623	A624	T625	Y626	G627	G628	E629	A630	E631	G632	G633	G634	G635	K636	K637	G638	G639	K640	K641	K642	G643	S644	S645	F646	Q647	T648	V649	S650	A651	L652	F653	R654	E655	M656	L657	M658	K659	L660	M661	A662	N663
K544	A545	T546	D547	S548	S549	F550	K551	N552	K553	L554	D555	D556	E557	H558	L559	G560	E561	S562	N563	N564	F565	Q566	G567	P568	K569	P570	A571	K572	G573	K574	A575	E576	A577	H578	F579	S580	L581	V582	H583	Y584	A585	G586	T587	V588	D589	Y590	N591	I592	F593	S594	L595	L596	E597	K598	K599	K600	D601	P602	L603
N484	E485	K486	L487	Q488	Q489	F490	F491	N492	H493	H494	M495	F496	V497	L498	E499	Q500	E501	E502	Y503	K504	K505	E506	I507	I508	E509	W510	E511	F512	I513	D514	F515	G516	M517	D518	L519	A520	A521	C522	I523	E524	L525	I526	E527	K528	P529	M530	G531	I532	F533	S534	I535	L536	E537	E538	E539	C540	M541	F542	P543
N424	S425	V426	G427	A428	L429	A430	K431	A432	V433	Y434	E435	A436	M437	F438	L439	M440	V442	I443	R444	I445	M446	Q447	Q448	L449	D450	T451	K452	Q453	P454	R455	Q456	Y457	F458	I459	G460	V461	L462	D463	I464	A465	G466	F467	E468	I469	F470	D471	F472	N473	S474	F475	E476	Q477	L478	C479	I480	M481	F482	T483	
L364	K365	F366	K367	Q368	K369	Q370	R371	E372	E373	Q374	A375	E376	P377	D378	G379	T380	E381	V382	A383	D384	K385	A386	A387	Y388	L389	M390	G391	L392	N393	S394	A395	E396	L397	L398	K399	A400	L401	C402	Y403	P404	R405	V406	G407	V408	G409	N410	E411	A412	V413	T414	K415	G416	E417	T418	V419	S420	V422	H423	

## ● 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	Q27	N28	K29	P30	F31	F32	D33	A34	K35	S36	S37	V38	F39	V40	V41	H42	H43	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	P82	P83	K84	G85	D86	K87	I88	E89	D90	N91	A92	H93	M94	T95	H96	L97	H98	E99	P100	A101	V102	L103	Y104	N105	L106	K107	E108	R109	Y110	A111	A112	Q113	M114	I115	Y116	T117	Y118	S119	G120	L121	F122	G123	
V124	T125	V126	N127	P128	Y129	K130	V131	L132	P133	V134	Y135	N136	P137	K138	V139	Y140	A142	Y143	R144	G145	K146	K147	R148	Q149	E150	A151	P152	P153	H154	I155	F156	S157	I158	S159	D160	N161	A162	L163	Q164	F165	M166	L167	T168	D169	R170	E171	N172	Q173	S174	I175	L176	I177	T178	G179	E180	S181	G182	A183	
G184	K185	T186	V187	N188	T189	K190	R191	V192	I193	Q194	Y195	F196	A197	T198	I199	A200	A201	S202	G203	E204	K205	K206	K207	E208	E209	Q210	S211	G212	K213	M214	Q215	G216	T217	L218	E219	D220	Q221	I222	I223	S224	A225	N226	P227	L228	L229	E230	A231	F232	G233	N234	A235	K236	T237	V238	R239	N240	D241	N242	S243
S244	R245	F246	G247	K248	F249	L250	R251	L252	H253	F254	G255	A256	T257	G258	K259	L260	A261	S262	A263	D264	L265	E266	T267	Y268	L269	L270	E271	K272	S273	R274	V275	T276	F277	Q278	L279	P280	A281	E282	R283	S284	Y285	H286	F287	F288	Y289	Q290	T291	M292	S293	N294	K295	K296	T297	E298	L299	I300	D301	K302	L303

L304	L364	N424	N484	K544	N604	L664	Y724	A784	L844	L904	L964	L1024	L1084	L1144	L1204	L1264	L1324	L1384	L1444	L1504	L1564	L1624	L1684	L1744	L1804	L1864	L1924	L1984	L2044	L2104	L2164	L2224	L2284	L2344	L2404	L2464	L2524	L2584	L2644	L2704	L2764	L2824	L2884	L2944	L3004	L3064	L3124	L3184	L3244	L3304	L3364	L3424	L3484	L3544	L3604	L3664	L3724	L3784	L3844	L3904	L3964	L4024	L4084	L4144	L4204	L4264	L4324	L4384	L4444	L4504	L4564	L4624	L4684	L4744	L4804	L4864	L4924	L4984	L5044	L5104	L5164	L5224	L5284	L5344	L5404	L5464	L5524	L5584	L5644	L5704	L5764	L5824	L5884	L5944	L6004	L6064	L6124	L6184	L6244	L6304	L6364	L6424	L6484	L6544	L6604	L6664	L6724	L6784	L6844	L6904	L6964	L7024	L7084	L7144	L7204	L7264	L7324	L7384	L7444	L7504	L7564	L7624	L7684	L7744	L7804	L7864	L7924	L7984	L8044	L8104	L8164	L8224	L8284	L8344	L8404	L8464	L8524	L8584	L8644	L8704	L8764	L8824	L8884	L8944	L9004	L9064	L9124	L9184	L9244	L9304	L9364	L9424	L9484	L9544	L9604	L9664	L9724	L9784	L9844	L9904	L9964	L10024	L10084	L10144	L10204	L10264	L10324	L10384	L10444	L10504	L10564	L10624	L10684	L10744	L10804	L10864	L10924	L10984	L11044	L11104	L11164	L11224	L11284	L11344	L11404	L11464	L11524	L11584	L11644	L11704	L11764	L11824	L11884	L11944	L12004	L12064	L12124	L12184	L12244	L12304	L12364	L12424	L12484	L12544	L12604	L12664	L12724	L12784	L12844	L12904	L12964	L13024	L13084	L13144	L13204	L13264	L13324	L13384	L13444	L13504	L13564	L13624	L13684	L13744	L13804	L13864	L13924	L13984	L14044	L14104	L14164	L14224	L14284	L14344	L14404	L14464	L14524	L14584	L14644	L14704	L14764	L14824	L14884	L14944	L15004	L15064	L15124	L15184	L15244	L15304	L15364	L15424	L15484	L15544	L15604	L15664	L15724	L15784	L15844	L15904	L15964	L16024	L16084	L16144	L16204	L16264	L16324	L16384	L16444	L16504	L16564	L16624	L16684	L16744	L16804	L16864	L16924	L16984	L17044	L17104	L17164	L17224	L17284	L17344	L17404	L17464	L17524	L17584	L17644	L17704	L17764	L17824	L17884	L17944	L18004	L18064	L18124	L18184	L18244	L18304	L18364	L18424	L18484	L18544	L18604	L18664	L18724	L18784	L18844	L18904	L18964	L19024	L19084	L19144	L19204	L19264	L19324	L19384	L19444	L19504	L19564	L19624	L19684	L19744	L19804	L19864	L19924	L19984	L20044	L20104	L20164	L20224	L20284	L20344	L20404	L20464	L20524	L20584	L20644	L20704	L20764	L20824	L20884	L20944	L21004	L21064	L21124	L21184	L21244	L21304	L21364	L21424	L21484	L21544	L21604	L21664	L21724	L21784	L21844	L21904	L21964	L22024	L22084	L22144	L22204	L22264	L22324	L22384	L22444	L22504	L22564	L22624	L22684	L22744	L22804	L22864	L22924	L22984	L23044	L23104	L23164	L23224	L23284	L23344	L23404	L23464	L23524	L23584	L23644	L23704	L23764	L23824	L23884	L23944	L24004	L24064	L24124	L24184	L24244	L24304	L24364	L24424	L24484	L24544	L24604	L24664	L24724	L24784	L24844	L24904	L24964	L25024	L25084	L25144	L25204	L25264	L25324	L25384	L25444	L25504	L25564	L25624	L25684	L25744	L25804	L25864	L25924	L25984	L26044	L26104	L26164	L26224	L26284	L26344	L26404	L26464	L26524	L26584	L26644	L26704	L26764	L26824	L26884	L26944	L27004	L27064	L27124	L27184	L27244	L27304	L27364	L27424	L27484	L27544	L27604	L27664	L27724	L27784	L27844	L27904	L27964	L28024	L28084	L28144	L28204	L28264	L28324	L28384	L28444	L28504	L28564	L28624	L28684	L28744	L28804	L28864	L28924	L28984	L29044	L29104	L29164	L29224	L29284	L29344	L29404	L29464	L29524	L29584	L29644	L29704	L29764	L29824	L29884	L29944	L30004	L30064	L30124	L30184	L30244	L30304	L30364	L30424	L30484	L30544	L30604	L30664	L30724	L30784	L30844	L30904	L30964	L31024	L31084	L31144	L31204	L31264	L31324	L31384	L31444	L31504	L31564	L31624	L31684	L31744	L31804	L31864	L31924	L31984	L32044	L32104	L32164	L32224	L32284	L32344	L32404	L32464	L32524	L32584	L32644	L32704	L32764	L32824	L32884	L32944	L33004	L33064	L33124	L33184	L33244	L33304	L33364	L33424	L33484	L33544	L33604	L33664	L33724	L33784	L33844	L33904	L33964	L34024	L34084	L34144	L34204	L34264	L34324	L34384	L34444	L34504	L34564	L34624	L34684	L34744	L34804	L34864	L34924	L34984	L35044	L35104	L35164	L35224	L35284	L35344	L35404	L35464	L35524	L35584	L35644	L35704	L35764	L35824	L35884	L35944	L36004	L36064	L36124	L36184	L36244	L36304	L36364	L36424	L36484	L36544	L36604	L36664	L36724	L36784	L36844	L36904	L36964	L37024	L37084	L37144	L37204	L37264	L37324	L37384	L37444	L37504	L37564	L37624	L37684	L37744	L37804	L37864	L37924	L37984	L38044	L38104	L38164	L38224	L38284	L38344	L38404	L38464	L38524	L38584	L38644	L38704	L38764	L38824	L38884	L38944	L39004	L39064	L39124	L39184	L39244	L39304	L39364	L39424	L39484	L39544	L39604	L39664	L39724	L39784	L39844	L39904	L39964	L40024	L40084	L40144	L40204	L40264	L40324	L40384	L40444	L40504	L40564	L40624	L40684	L40744	L40804	L40864	L40924	L40984	L41044	L41104	L41164	L41224	L41284	L41344	L41404	L41464	L41524	L41584	L41644	L41704	L41764	L41824	L41884	L41944	L42004	L42064	L42124	L42184	L42244	L42304	L42364	L42424	L42484	L42544	L42604	L42664	L42724	L42784	L42844	L42904	L42964	L43024	L43084	L43144	L43204	L43264	L43324	L43384	L43444	L43504	L43564	L43624	L43684	L43744	L43804	L43864	L43924	L43984	L44044	L44104	L44164	L44224	L44284	L44344	L44404	L44464	L44524	L44584	L44644	L44704	L44764	L44824	L44884	L44944	L45004	L45064	L45124	L45184	L45244	L45304	L45364	L45424	L45484	L45544	L45604	L45664	L45724	L45784	L45844	L45904	L45964	L46024	L46084	L46144	L46204	L46264	L46324	L46384	L46444	L46504	L46564	L46624	L46684	L46744	L46804	L46864	L46924	L46984	L47044	L47104	L47164	L47224	L47284	L47344	L47404	L47464	L47524	L47584	L47644	L47704	L47764	L47824	L47884	L47944	L48004	L48064	L48124	L48184	L48244	L48304	L48364	L48424	L48484	L48544	L48604	L48664	L48724	L48784	L48844	L48904	L48964	L49024	L49084	L49144	L49204	L49264	L49324	L49384	L49444	L49504	L49564	L49624	L49684	L49744	L49804	L49864	L49924	L49984	L50044	L50104	L50164	L50224	L50284	L50344	L50404	L50464	L50524	L50584	L50644	L50704	L50764	L50824	L50884	L50944	L51004	L51064	L51124	L51184	L51244	L51304	L51364	L51424	L51484	L51544	L51604	L51664	L51724	L51784	L51844	L51904	L51964	L52024	L52084	L52144	L52204	L52264	L52324	L52384	L52444	L52504	L52564	L52624	L52684	L52744	L52804	L52864	L52924	L52984	L53044	L53104	L53164	L53224	L53284	L53344	L53404	L53464	L53524	L53584	L53644	L53704	L53764	L53824	L53884	L53944	L54004	L54064	L54124	L54184	L54244	L54304	L54364	L54424	L54484	L54544	L54604	L54664	L54724	L54784	L54844	L54904	L54964	L55024	L55084	L55144	L55204	L55264	L55324	L55384	L55444	L55504	L55564	L55624	L55684	L55744	L55804	L55864	L55924	L55984	L56044	L56104	L56164	L56224	L56284	L56344	L56404	L56464	L56524	L56584	L56644	L56704	L56764	L56824	L56884	L56944	L57004	L57064	L57124	L57184	L57244	L57304	L57364	L57424	L57484	L57544	L57604	L57664	L57724	L57784	L57844	L57904	L57964	L58024	L58084	L58144	L58204	L58264	L58324	L58384	L58444	L58504	L58564	L58624	L58684	L58744	L58804	L58864	L58924	L58984	L59044	L59104	L59164	L59224	L59284	L59344	L59404	L59464	L59524	L59584	L59644	L59704	L59764	L59824	L59884	L59944	L60004	L60064	L60124	L60184	L60244	L60304	L60364	L60424	L60484	L60544	L60604	L60664	L60724	L60784	L60844	L60904	L60964	L61024	L61084	L61144	L61204	L61264	L61324	L61384	L61444	L61504	L61564	L61624	L61684	L61744	L61804	L61864	L61924	L61984	L62044	L62104	L62164	L62224	L62284	L62344	L62404	L62464	L62524	L62584	L62644	L62704	L62764	L62824	L62884	L62944	L63004	L63064	L63124	L63184	L63244	L63304	L63364	L63424	L63484	L63544	L63604	L63664	L63724	L63784	L63844	L63904	L63964	L64024	L64084	L64144	L64204	L64264	L64324	L64384	L64444	L64504	L64564	L64624	L64684	L64744	L64804	L64864	L64924	L64984	L65044	L65104	L65164	L65224	L65284	L65344	L65404	L65464	L65524	L65584	L65644	L65704	L65764	L65824	L65884	L65944	L66004	L66064	L66124	L66184	L66244	L66304	L66364	L66424	L66484	L66544	L66604	L66664	L66724	L66784	L66844	L66904	L66964	L67024	L67084	L67144	L67204	L67264	L67324	L67384	L67444	L67504	L67564	L67624	L67684	L67744	L67804	L67864	L67924	L67984	L68044	L68104	L68164	L68224	L68284	L68344	L68404	L68464	L68524	L68584	L68644	L68704	L68764	L68824	L68884	L68944	L69004	L69064	L69124	L69184	L69244	L69304	L69364	L69424	L69484	L69544	L69604	L69664	L69724	L69784	L69844	L69904	L69964	L70024	L70084	L70144	L70204	L70264	L70324	L70384	L70444	L70504	L70564	L70624	L70684	L70744	L70804	L70864	L70924	L70984	L71044	L71104	L71164	L71224	L71284	L71344	L71404	L71464	L71524	L71584	L71644	L71704	L71764	L71824	L71884	L71944	L72004	L72064	L72124	L72184	L72244	L72304	L72364	L72424	L72484	L72544	L72604	L72664	L72724	L72784	L72844	L72904	L72964	L73024	L73084	L73144	L73204	L73264	L73324	L73384	L73444	L73504	L73564	L73624	L73684	L73744	L73804	L73864	L73924	L73984	L74044	L74104	L74164	L74224	L74284	L74344	L74404	L74464	L74524	L74584	L74644	L74704	L74764	L74824	L74884	L74944	L75004	L75064	L75124	L75184	L75244	L75304	L75364	L75424	L75484	L75544	L7
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• 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	K24	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	G61	F62	C63
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	L107	E108	R109	Y110	A111	A112	M113	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	N158	S159	D160	N161	A162	Y163	Q164	F165	M166	L167	T168	D169	R170	E171	N172	Q173	S174	I175	L176	L177	T178	G179	E180	S181	G182	A183
G184	K185	T186	V187	N188	T189	K190	R191	V192	I193	Q194	Y195	F196	A197	T198	I199	A200	A201	S202	G203	E204	K205	K206	K207	E208	E209	Q210	S211	G212	K213	M214	I215	G216	T217	L218	E219	D220	Q221	I222	I223	S224	N225	P227	L228	L229	E230	A231	F232	G233	N234	A235	K236	T237	V238	R239	N240	D241	N242	S243	



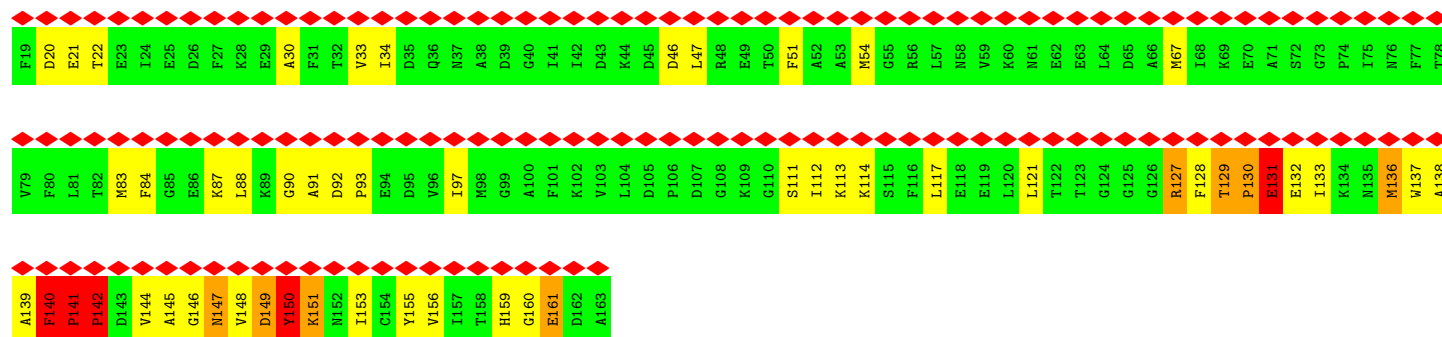
Frequency	Percentage
100%	100%
67%	67%
24%	24%
6%	6%



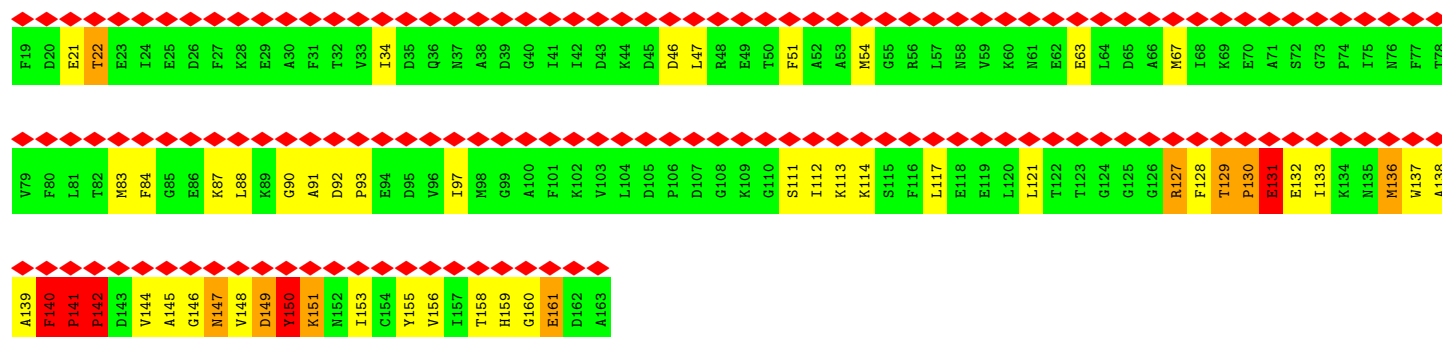
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN



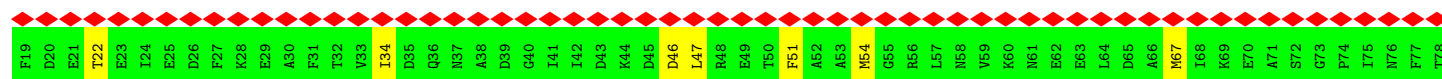
• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

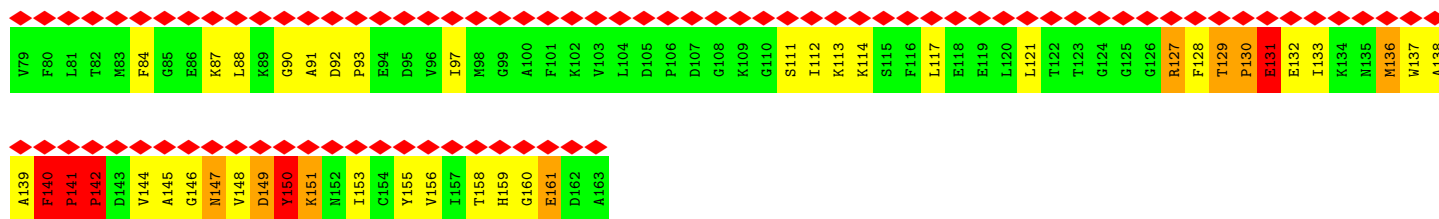


• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

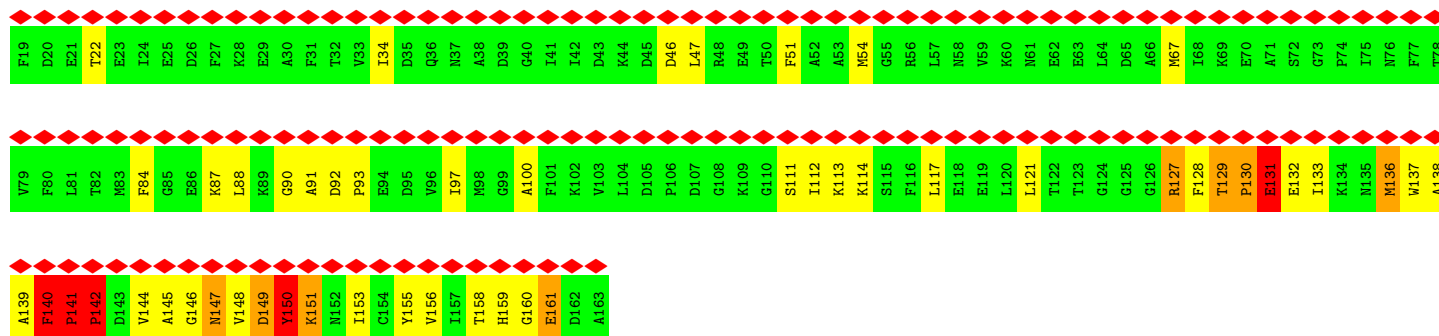


• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN

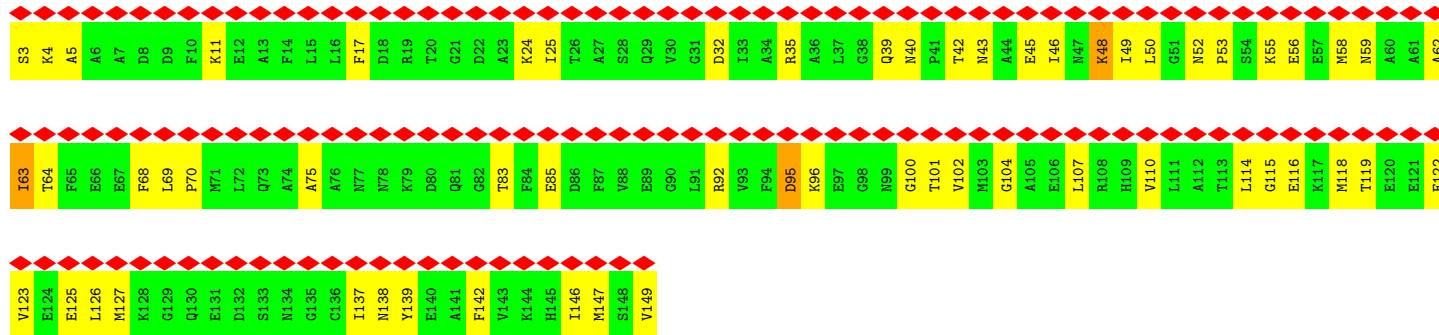




• Molecule 2: SKELETAL MUSCLE MYOSIN II REGULATORY LIGHT CHAIN



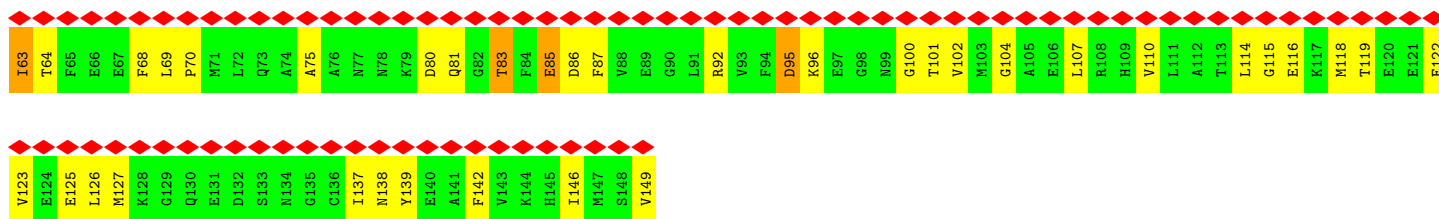
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



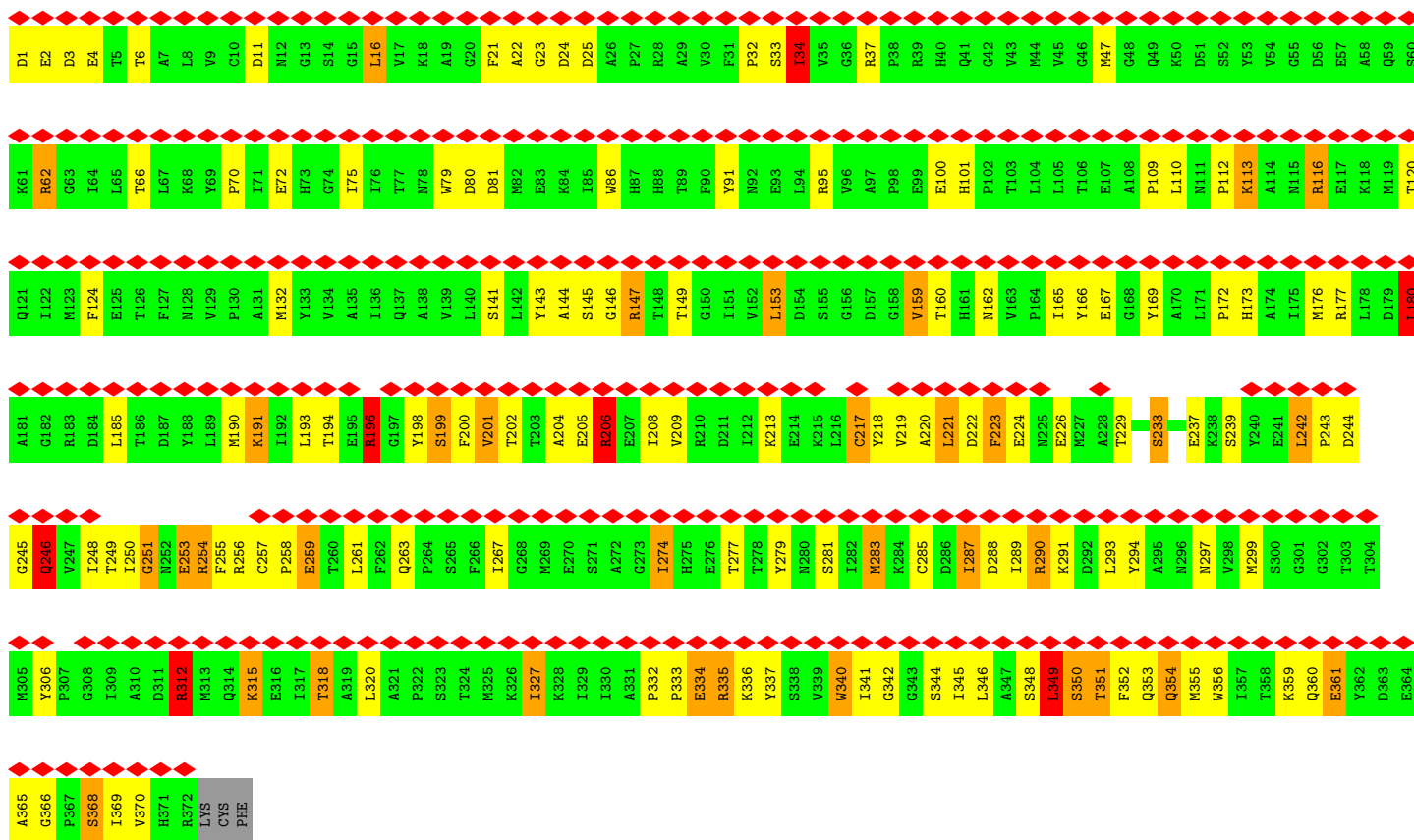
• Molecule 3: SKELETAL MUSCLE MYOSIN II ESSENTIAL LIGHT CHAIN



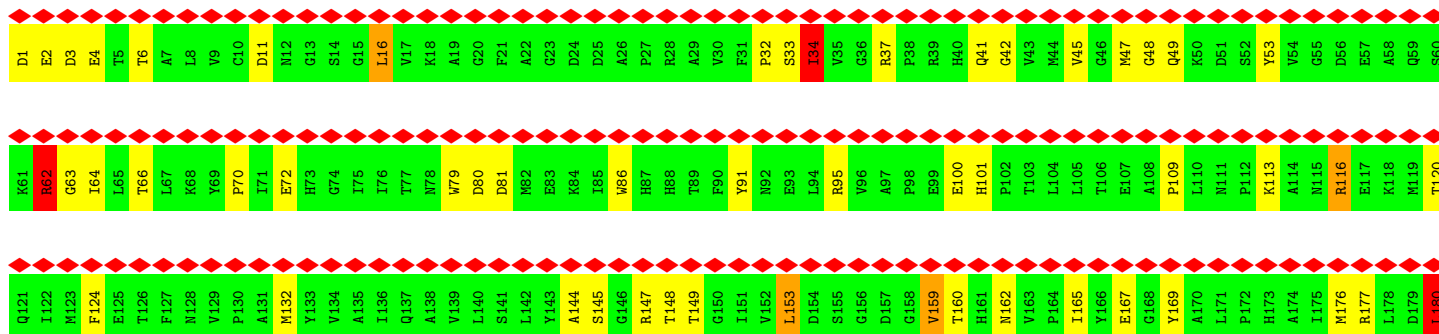




• Molecule 4: SKELETAL MUSCLE ACTIN

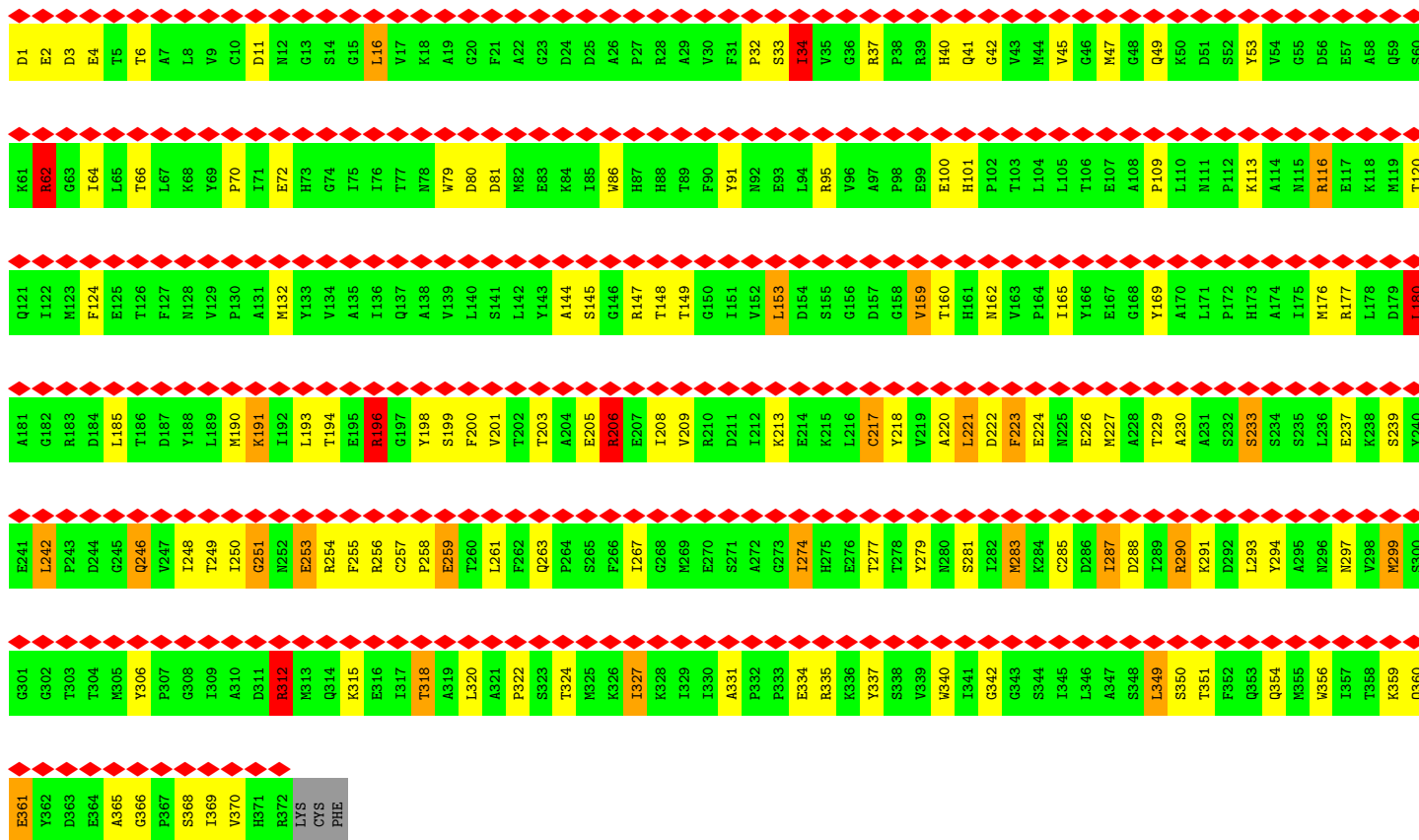


• Molecule 4: SKELETAL MUSCLE ACTIN

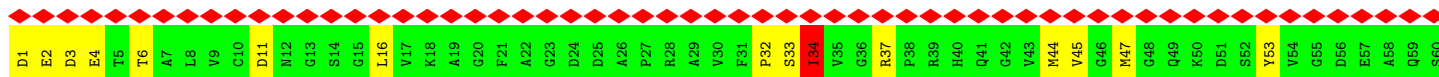


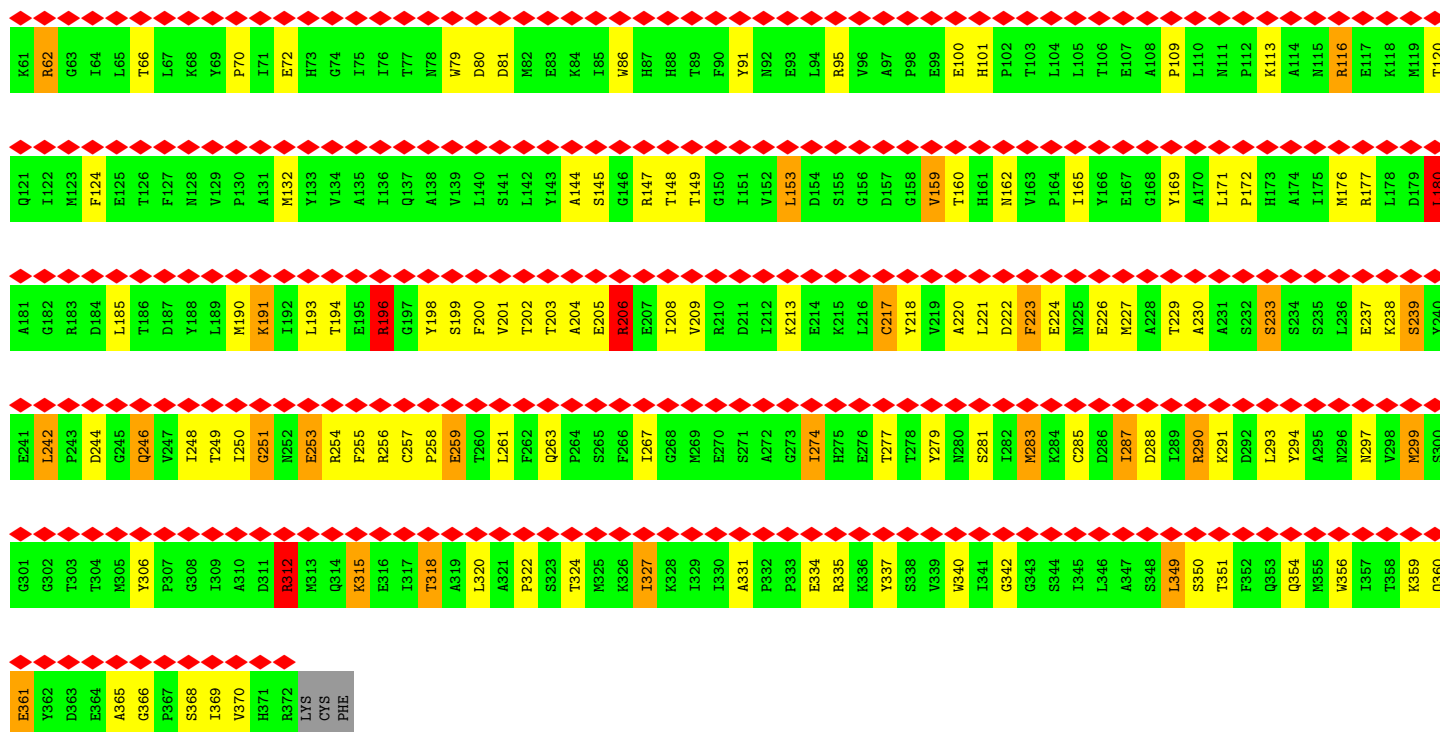


• Molecule 4: SKELETAL MUSCLE ACTIN

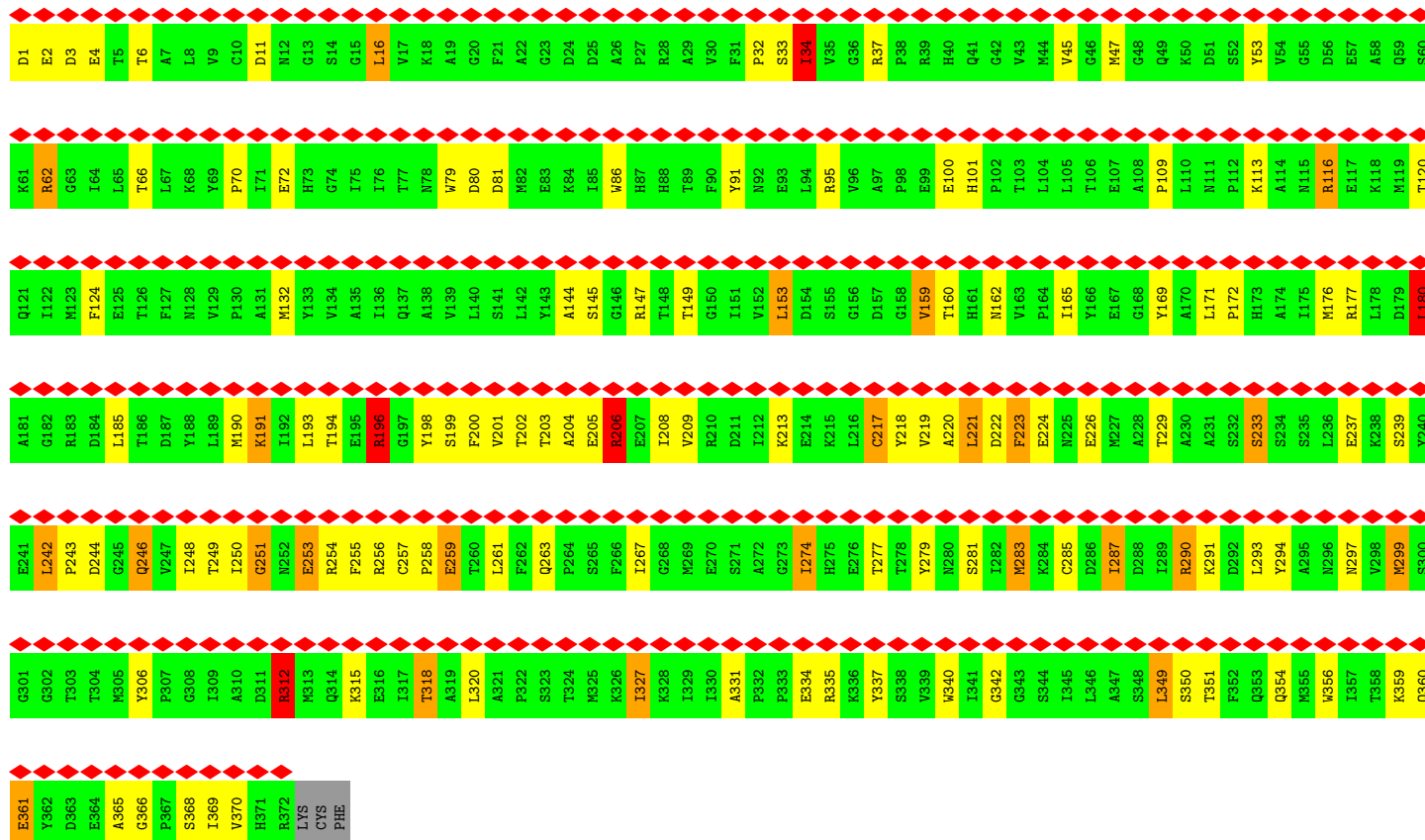


• Molecule 4: SKELETAL MUSCLE ACTIN

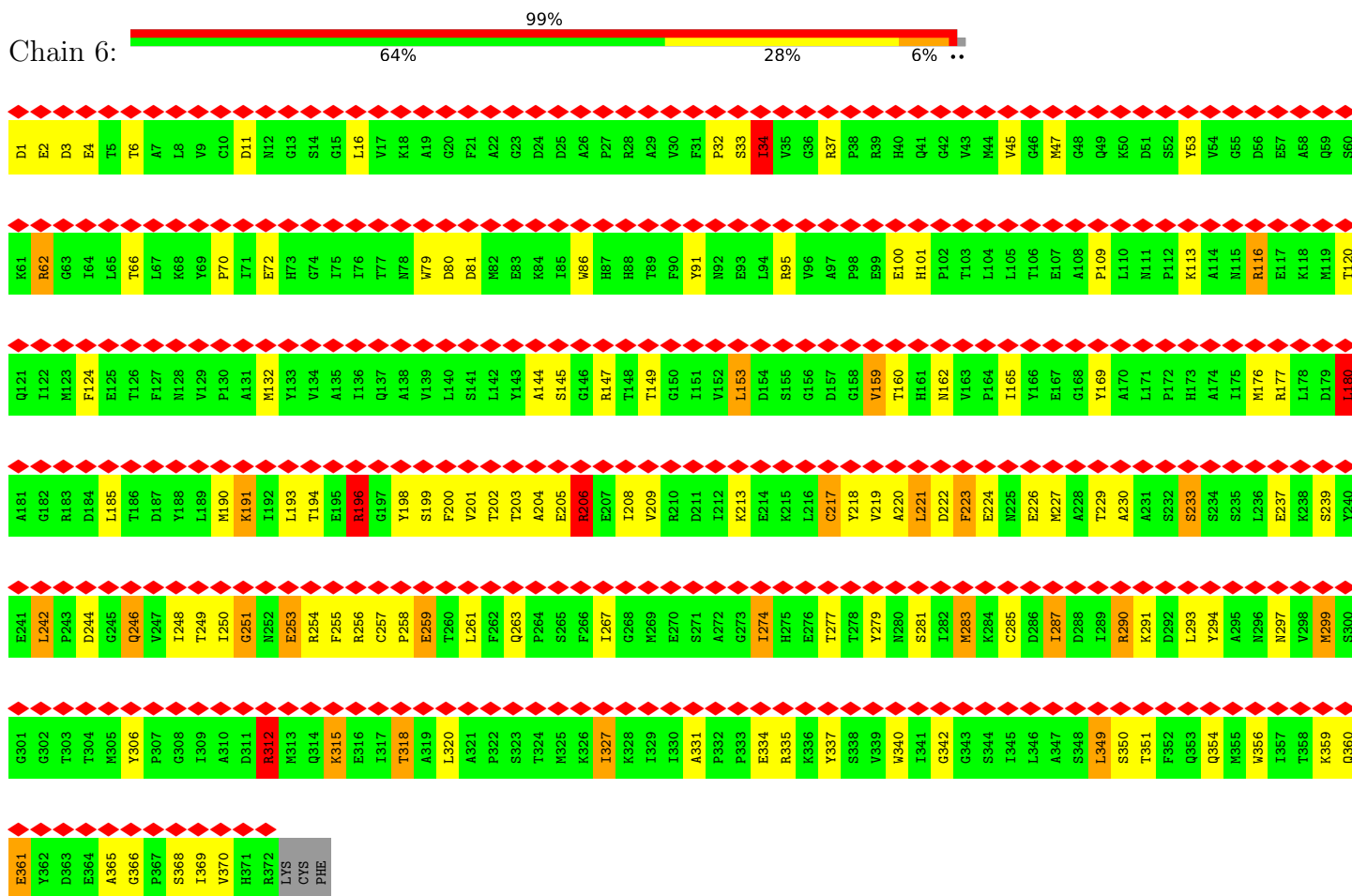




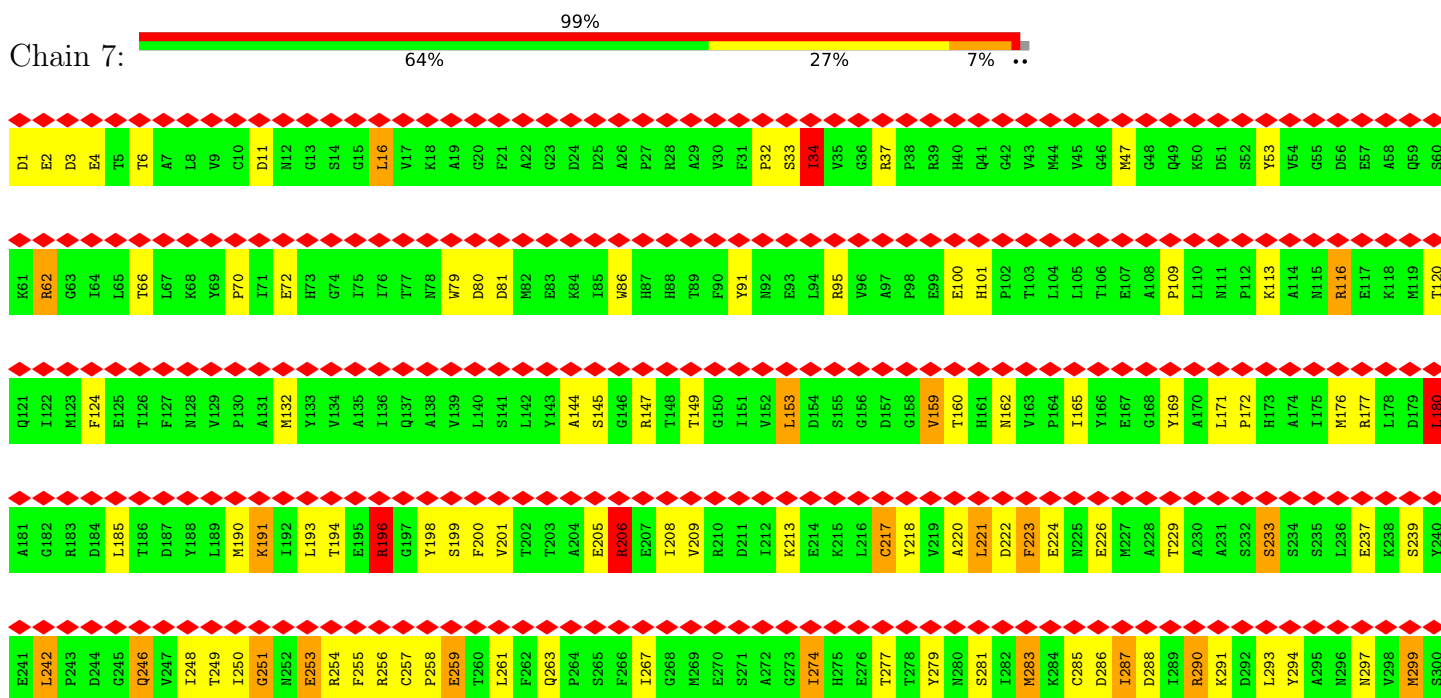
• Molecule 4: SKELETAL MUSCLE ACTIN



## ● Molecule 4: SKELETAL MUSCLE ACTIN



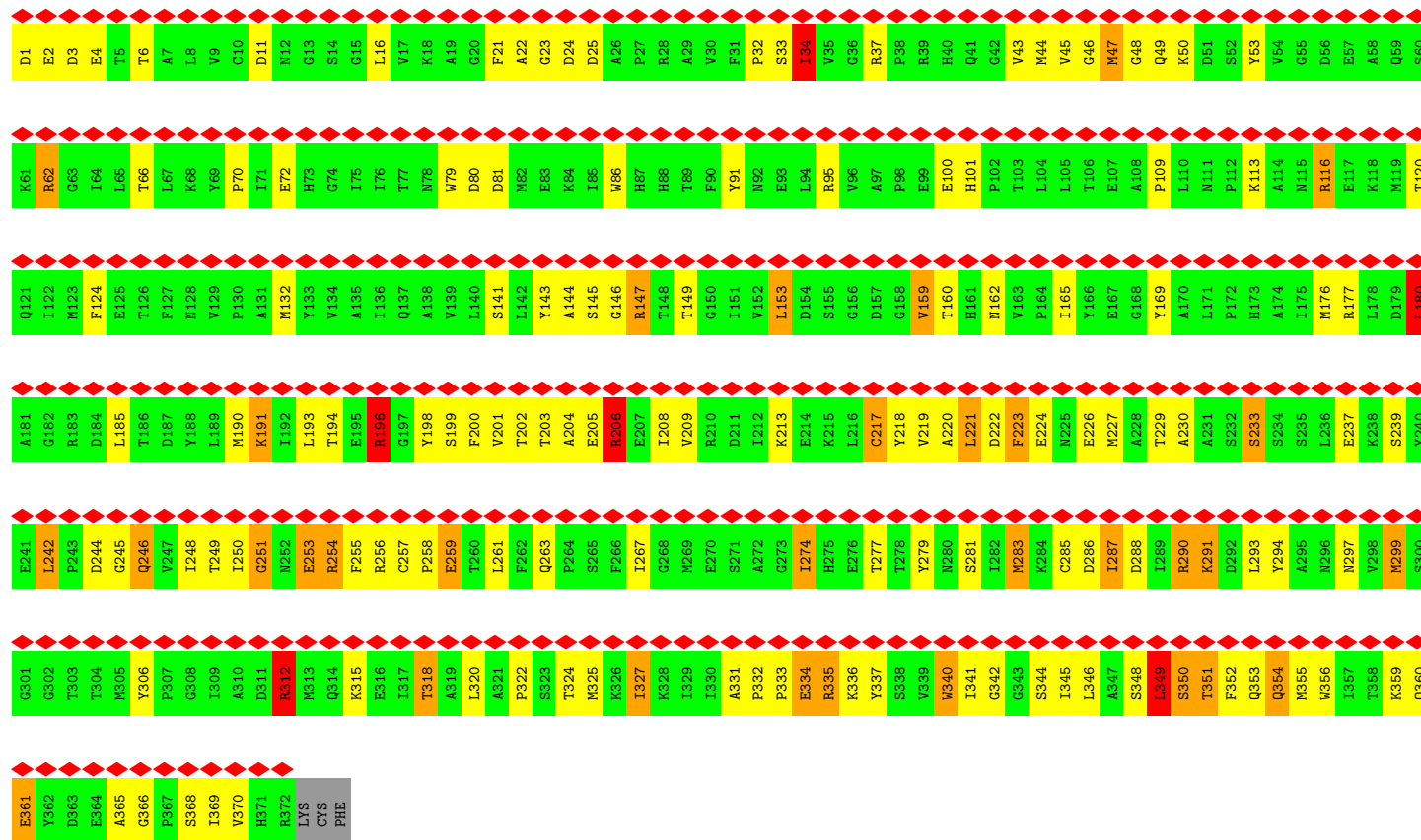
## ● Molecule 4: SKELETAL MUSCLE ACTIN



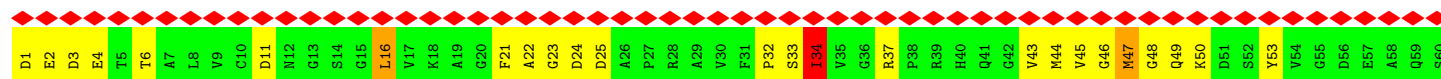


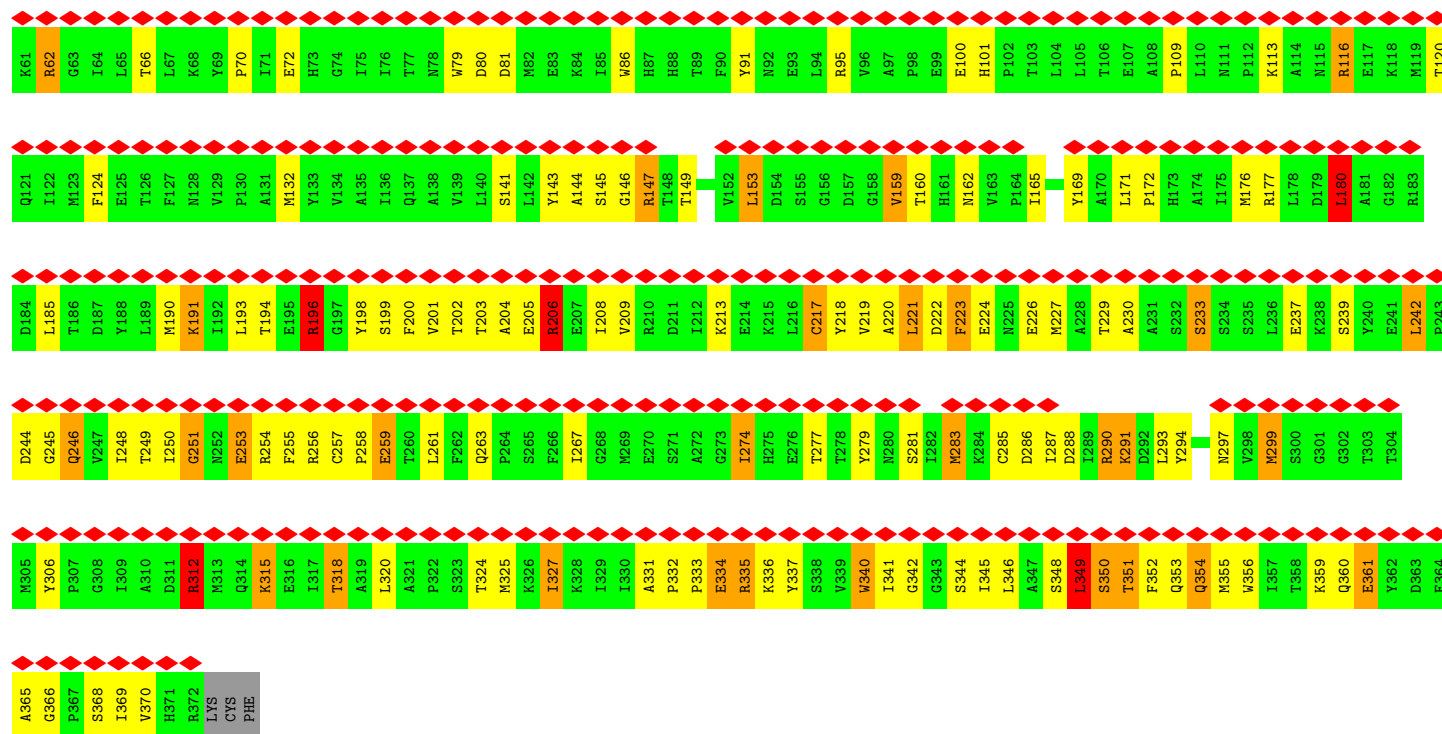


## • Molecule 4: SKELETAL MUSCLE ACTIN

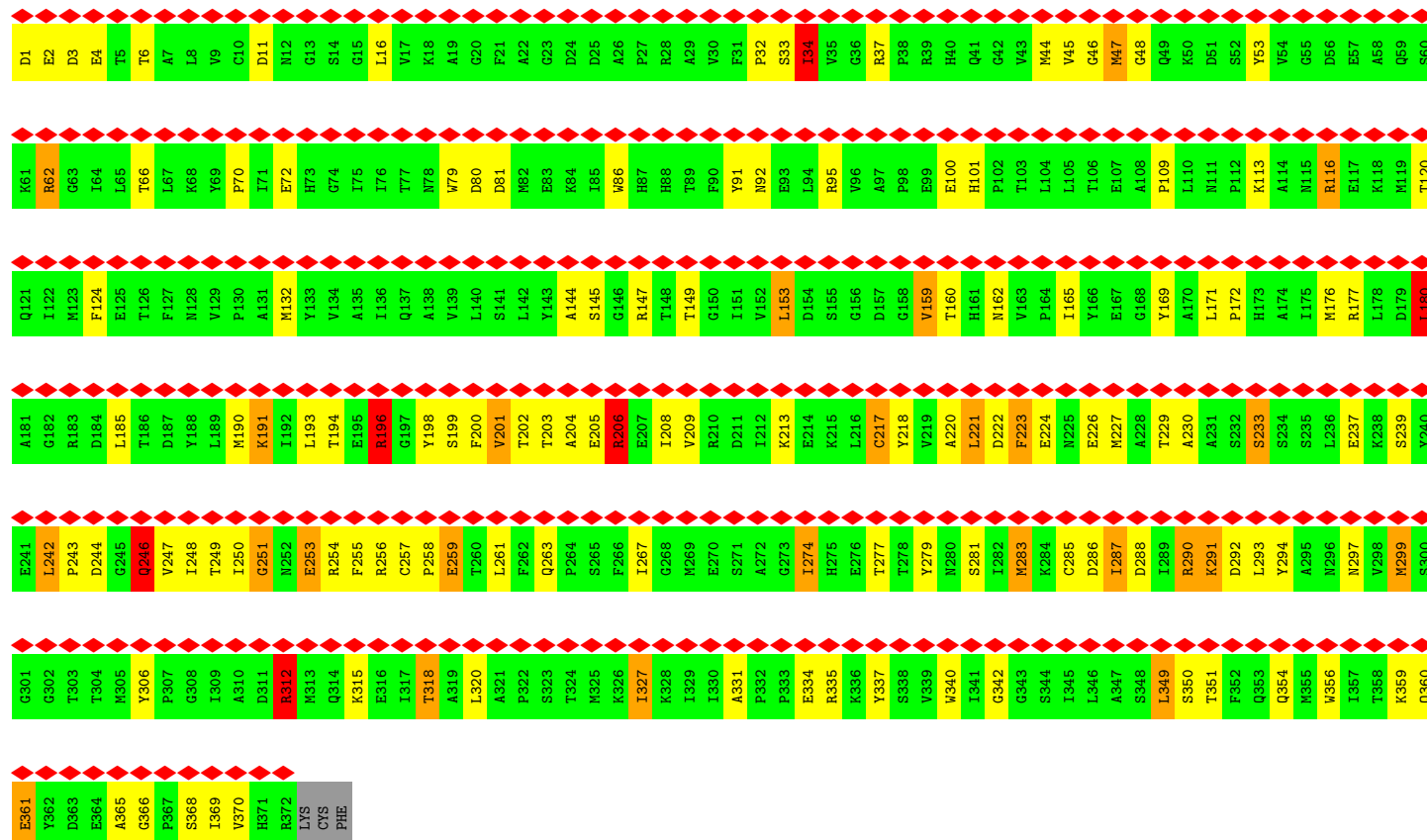


## • Molecule 4: SKELETAL MUSCLE ACTIN



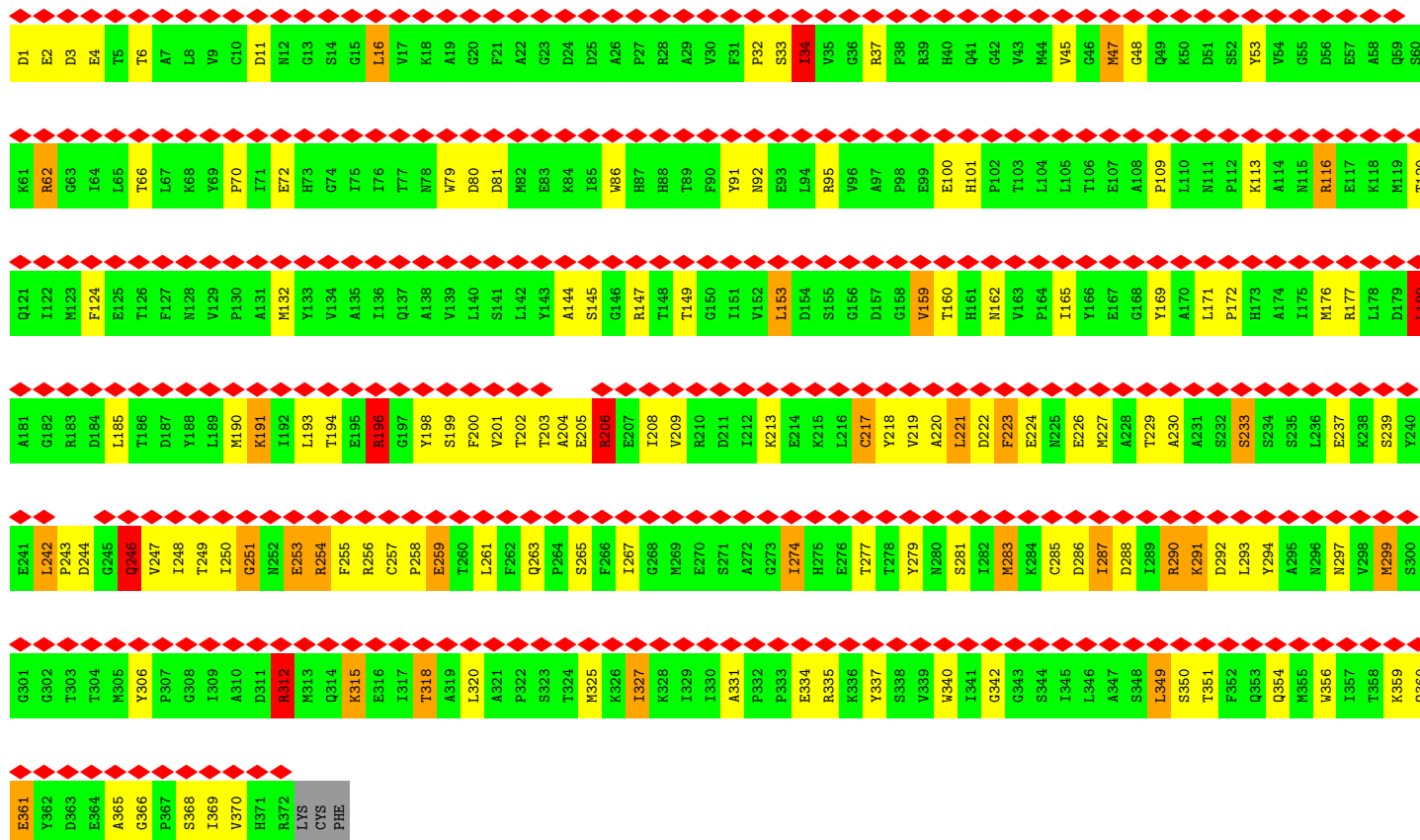


● Molecule 4: SKELETAL MUSCLE ACTIN



## ● Molecule 4: SKELETAL MUSCLE ACTIN

Chain Y: 



E361	G301
Y362	G302
D363	T303
E364	T304
A365	M305
G366	Y306
P367	P307
S368	G308
T369	T309
V370	A310
H371	D311
R372	S312
LYS	M313
CYS	Q314
PHE	K315
	E316
	I317
	T318
	A319
	L320
	A321
	P322
	S323
	T324
	M325
	K326
	I327
	K328
	T329
	T330
	A331
	P332
	P333
	E334
	R335
	K336
	Y337
	S338
	V339
	W340
	I341
	G342
	G343
	S344
	T345
	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	67/6448 (1.0%)	1.82	116/8729 (1.3%)
1	D	1.77	64/6448 (1.0%)	1.82	115/8729 (1.3%)
1	G	1.77	66/6449 (1.0%)	1.82	117/8732 (1.3%)
1	J	1.77	67/6449 (1.0%)	1.87	119/8732 (1.4%)
1	M	1.79	68/6449 (1.1%)	1.91	121/8732 (1.4%)
1	P	1.79	69/6449 (1.1%)	1.90	124/8732 (1.4%)
2	B	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	E	1.22	10/1148 (0.9%)	1.61	16/1548 (1.0%)
2	H	1.22	9/1148 (0.8%)	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	Q	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	0.94	4/1525 (0.3%)
3	O	0.79	0/1136	0.94	4/1525 (0.3%)
3	R	0.79	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	1/2968 (0.0%)	1.64	51/4023 (1.3%)
4	3	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	4	0.89	2/2968 (0.1%)	1.64	51/4023 (1.3%)
4	5	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	6	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	7	0.89	1/2968 (0.0%)	1.64	52/4023 (1.3%)
4	8	0.89	1/2968 (0.0%)	1.64	52/4023 (1.3%)
4	9	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	V	0.89	2/2968 (0.1%)	1.64	52/4023 (1.3%)
4	W	0.89	1/2968 (0.0%)	1.64	52/4023 (1.3%)
4	X	0.89	1/2968 (0.0%)	1.64	51/4023 (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	52/4023 (1.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
All	All	1.34	483/93948 (0.5%)	1.69	1555/127146 (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	9
1	P	1	8
2	B	0	3
2	E	0	3
2	H	0	3
2	K	0	3
2	N	0	3
2	Q	0	3
3	C	0	2
3	F	0	3
3	I	0	2
3	L	0	2
3	O	0	2
3	R	0	2
4	1	0	1
4	2	0	1
4	3	0	1
4	4	0	1
4	5	0	1
4	6	0	1
4	7	0	1
4	8	0	1
4	9	0	1
4	V	0	1
4	W	0	1
4	X	0	1
4	Y	0	1
4	Z	0	1
All	All	6	81

All (483) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	649	VAL	CB-CG1	53.27	2.64	1.52
1	M	649	VAL	CB-CG1	53.24	2.64	1.52
1	G	649	VAL	CB-CG1	53.23	2.64	1.52
1	J	649	VAL	CB-CG1	53.20	2.64	1.52
1	D	649	VAL	CB-CG1	53.16	2.64	1.52
1	A	649	VAL	CB-CG1	53.12	2.64	1.52
1	D	623	PHE	CB-CG	48.18	2.33	1.51
1	A	623	PHE	CB-CG	48.15	2.33	1.51
1	J	623	PHE	CB-CG	48.11	2.33	1.51
1	P	623	PHE	CB-CG	48.11	2.33	1.51
1	M	623	PHE	CB-CG	48.09	2.33	1.51
1	G	623	PHE	CB-CG	48.07	2.33	1.51
1	A	649	VAL	CB-CG2	46.25	2.50	1.52
1	G	649	VAL	CB-CG2	46.23	2.50	1.52
1	M	649	VAL	CB-CG2	46.21	2.49	1.52
1	P	649	VAL	CB-CG2	46.15	2.49	1.52
1	J	649	VAL	CB-CG2	46.12	2.49	1.52
1	D	649	VAL	CB-CG2	46.09	2.49	1.52
1	D	648	THR	CB-OG1	34.36	2.12	1.43
1	J	648	THR	CB-OG1	34.35	2.12	1.43
1	A	648	THR	CB-OG1	34.34	2.12	1.43
1	G	648	THR	CB-OG1	34.34	2.12	1.43
1	P	648	THR	CB-OG1	34.33	2.12	1.43
1	M	648	THR	CB-OG1	34.25	2.11	1.43
1	J	648	THR	CB-CG2	-30.73	0.51	1.52
1	P	648	THR	CB-CG2	-30.70	0.51	1.52
1	M	648	THR	CB-CG2	-30.70	0.51	1.52
1	A	648	THR	CB-CG2	-30.68	0.51	1.52
1	D	648	THR	CB-CG2	-30.68	0.51	1.52
1	G	648	THR	CB-CG2	-30.68	0.51	1.52
1	M	806	MET	C-N	17.50	1.74	1.34
1	D	637	LYS	C-N	-15.07	1.05	1.33
1	J	637	LYS	C-N	-15.06	1.05	1.33
1	P	637	LYS	C-N	-15.03	1.05	1.33
1	M	637	LYS	C-N	-14.95	1.06	1.33
1	A	637	LYS	C-N	-14.80	1.06	1.33
1	G	637	LYS	C-N	-14.76	1.06	1.33
1	P	786	ILE	C-N	14.57	1.67	1.34
1	A	649	VAL	C-N	-13.56	1.02	1.34
1	G	649	VAL	C-N	-13.48	1.03	1.34
2	N	150	TYR	CB-CG	-13.46	1.31	1.51
1	D	649	VAL	C-N	-13.44	1.03	1.34
1	P	649	VAL	C-N	-13.44	1.03	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	649	VAL	C-N	-13.41	1.03	1.34
1	M	649	VAL	C-N	-13.39	1.03	1.34
2	Q	150	TYR	CB-CG	-13.39	1.31	1.51
2	H	150	TYR	CB-CG	-13.36	1.31	1.51
2	B	150	TYR	CB-CG	-13.31	1.31	1.51
2	K	150	TYR	CB-CG	-13.31	1.31	1.51
2	E	150	TYR	CB-CG	-13.28	1.31	1.51
2	B	140	PHE	C-N	-13.00	1.09	1.34
2	N	140	PHE	C-N	-12.99	1.09	1.34
2	E	140	PHE	C-N	-12.98	1.09	1.34
2	K	140	PHE	C-N	-12.96	1.09	1.34
2	Q	140	PHE	C-N	-12.88	1.09	1.34
2	H	140	PHE	C-N	-12.86	1.09	1.34
1	P	806	MET	C-N	12.00	1.61	1.34
2	B	150	TYR	CG-CD2	-11.46	1.24	1.39
2	H	150	TYR	CG-CD2	-11.30	1.24	1.39
2	Q	150	TYR	CG-CD2	-11.26	1.24	1.39
2	K	150	TYR	CG-CD2	-11.24	1.24	1.39
2	E	150	TYR	CG-CD2	-11.20	1.24	1.39
2	N	150	TYR	CG-CD2	-11.13	1.24	1.39
1	M	769	ALA	C-N	10.78	1.52	1.33
2	K	141	PRO	N-CD	-10.64	1.32	1.47
2	N	141	PRO	N-CD	-10.61	1.32	1.47
2	E	141	PRO	N-CD	-10.57	1.33	1.47
2	Q	141	PRO	N-CD	-10.53	1.33	1.47
2	B	141	PRO	N-CD	-10.49	1.33	1.47
2	H	141	PRO	N-CD	-10.41	1.33	1.47
1	P	476	GLU	CD-OE1	8.95	1.35	1.25
1	J	476	GLU	CD-OE1	8.94	1.35	1.25
1	M	476	GLU	CD-OE1	8.88	1.35	1.25
1	J	785	GLU	C-N	8.83	1.54	1.34
1	G	476	GLU	CD-OE1	8.77	1.35	1.25
1	D	476	GLU	CD-OE1	8.73	1.35	1.25
1	A	622	LEU	C-N	8.71	1.54	1.34
1	A	476	GLU	CD-OE1	8.69	1.35	1.25
1	P	622	LEU	C-N	8.68	1.54	1.34
1	M	622	LEU	C-N	8.66	1.53	1.34
1	J	622	LEU	C-N	8.63	1.53	1.34
1	G	622	LEU	C-N	8.62	1.53	1.34
1	D	622	LEU	C-N	8.60	1.53	1.34
1	P	745	GLU	CD-OE2	8.42	1.34	1.25
1	G	411	GLU	CD-OE1	8.38	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	745	GLU	CD-OE2	8.36	1.34	1.25
1	M	745	GLU	CD-OE2	8.35	1.34	1.25
2	Q	150	TYR	CA-CB	-8.30	1.35	1.53
2	K	150	TYR	CA-CB	-8.28	1.35	1.53
2	B	150	TYR	CA-CB	-8.28	1.35	1.53
1	P	411	GLU	CD-OE1	8.27	1.34	1.25
1	M	411	GLU	CD-OE1	8.27	1.34	1.25
1	J	745	GLU	CD-OE2	8.25	1.34	1.25
1	D	411	GLU	CD-OE1	8.24	1.34	1.25
1	G	745	GLU	CD-OE2	8.21	1.34	1.25
2	N	150	TYR	CA-CB	-8.20	1.35	1.53
1	J	411	GLU	CD-OE1	8.19	1.34	1.25
2	H	150	TYR	CA-CB	-8.16	1.35	1.53
1	A	745	GLU	CD-OE2	8.13	1.34	1.25
2	E	150	TYR	CA-CB	-8.06	1.36	1.53
1	A	411	GLU	CD-OE1	8.03	1.34	1.25
1	A	381	GLU	CD-OE1	8.01	1.34	1.25
1	P	769	ALA	C-N	-7.96	1.18	1.33
1	J	108	GLU	CD-OE1	7.96	1.34	1.25
1	G	108	GLU	CD-OE1	7.95	1.34	1.25
1	G	381	GLU	CD-OE1	7.87	1.34	1.25
1	J	381	GLU	CD-OE1	7.86	1.34	1.25
1	P	108	GLU	CD-OE1	7.86	1.34	1.25
1	M	108	GLU	CD-OE1	7.85	1.34	1.25
1	M	381	GLU	CD-OE1	7.81	1.34	1.25
1	D	202	SER	CB-OG	7.80	1.52	1.42
1	P	202	SER	CB-OG	7.79	1.52	1.42
1	A	108	GLU	CD-OE1	7.78	1.34	1.25
1	D	381	GLU	CD-OE1	7.78	1.34	1.25
1	J	202	SER	CB-OG	7.74	1.52	1.42
1	D	108	GLU	CD-OE1	7.70	1.34	1.25
1	P	381	GLU	CD-OE1	7.69	1.34	1.25
1	M	202	SER	CB-OG	7.68	1.52	1.42
1	G	202	SER	CB-OG	7.68	1.52	1.42
1	A	202	SER	CB-OG	7.67	1.52	1.42
1	J	689	GLU	CD-OE2	7.49	1.33	1.25
1	D	689	GLU	CD-OE2	7.46	1.33	1.25
1	G	689	GLU	CD-OE2	7.46	1.33	1.25
1	A	689	GLU	CD-OE2	7.43	1.33	1.25
1	P	689	GLU	CD-OE2	7.38	1.33	1.25
1	M	23	GLU	CD-OE1	7.31	1.33	1.25
1	J	347	GLU	CD-OE1	7.31	1.33	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	347	GLU	CD-OE1	7.31	1.33	1.25
1	M	689	GLU	CD-OE2	7.30	1.33	1.25
1	D	23	GLU	CD-OE1	7.27	1.33	1.25
1	A	347	GLU	CD-OE1	7.26	1.33	1.25
1	J	23	GLU	CD-OE1	7.26	1.33	1.25
1	P	23	GLU	CD-OE1	7.26	1.33	1.25
1	M	347	GLU	CD-OE1	7.22	1.33	1.25
1	G	347	GLU	CD-OE1	7.20	1.33	1.25
1	G	23	GLU	CD-OE1	7.19	1.33	1.25
1	A	23	GLU	CD-OE1	7.18	1.33	1.25
1	D	347	GLU	CD-OE1	7.16	1.33	1.25
1	P	511	GLU	CD-OE1	7.14	1.33	1.25
1	M	511	GLU	CD-OE1	7.13	1.33	1.25
1	J	511	GLU	CD-OE1	7.10	1.33	1.25
1	A	511	GLU	CD-OE1	7.03	1.33	1.25
1	M	524	GLU	CD-OE1	7.02	1.33	1.25
1	D	68	GLU	CD-OE2	7.01	1.33	1.25
1	P	330	GLU	CD-OE1	7.01	1.33	1.25
1	M	330	GLU	CD-OE1	6.99	1.33	1.25
1	P	524	GLU	CD-OE1	6.98	1.33	1.25
1	J	524	GLU	CD-OE1	6.97	1.33	1.25
1	M	811	GLU	CD-OE1	6.96	1.33	1.25
1	A	376	GLU	CD-OE1	6.96	1.33	1.25
1	J	68	GLU	CD-OE2	6.95	1.33	1.25
1	D	376	GLU	CD-OE1	6.95	1.33	1.25
1	G	26	GLU	CD-OE1	6.95	1.33	1.25
1	M	26	GLU	CD-OE1	6.95	1.33	1.25
1	J	330	GLU	CD-OE1	6.94	1.33	1.25
1	A	524	GLU	CD-OE1	6.94	1.33	1.25
1	P	26	GLU	CD-OE1	6.94	1.33	1.25
1	G	376	GLU	CD-OE1	6.93	1.33	1.25
1	J	811	GLU	CD-OE1	6.92	1.33	1.25
1	D	26	GLU	CD-OE1	6.91	1.33	1.25
1	D	524	GLU	CD-OE1	6.91	1.33	1.25
1	P	811	GLU	CD-OE1	6.91	1.33	1.25
1	G	68	GLU	CD-OE2	6.91	1.33	1.25
1	M	68	GLU	CD-OE2	6.91	1.33	1.25
1	P	68	GLU	CD-OE2	6.91	1.33	1.25
1	D	511	GLU	CD-OE1	6.90	1.33	1.25
1	J	26	GLU	CD-OE1	6.88	1.33	1.25
1	G	330	GLU	CD-OE1	6.88	1.33	1.25
1	J	376	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	A	330	GLU	CD-OE1	6.85	1.33	1.25
1	A	26	GLU	CD-OE1	6.84	1.33	1.25
1	D	330	GLU	CD-OE1	6.83	1.33	1.25
1	A	68	GLU	CD-OE2	6.82	1.33	1.25
1	G	524	GLU	CD-OE1	6.82	1.33	1.25
1	P	376	GLU	CD-OE1	6.79	1.33	1.25
1	M	655	GLU	CD-OE1	6.79	1.33	1.25
1	D	811	GLU	CD-OE1	6.76	1.33	1.25
1	G	511	GLU	CD-OE1	6.76	1.33	1.25
1	A	655	GLU	CD-OE1	6.71	1.33	1.25
1	P	655	GLU	CD-OE1	6.70	1.33	1.25
1	J	538	GLU	CD-OE1	6.69	1.33	1.25
1	M	538	GLU	CD-OE1	6.69	1.33	1.25
1	P	538	GLU	CD-OE1	6.69	1.33	1.25
1	A	811	GLU	CD-OE1	6.67	1.32	1.25
1	M	319	GLU	CD-OE1	6.66	1.32	1.25
1	J	655	GLU	CD-OE1	6.63	1.32	1.25
1	A	538	GLU	CD-OE1	6.62	1.32	1.25
1	J	319	GLU	CD-OE1	6.62	1.32	1.25
2	E	150	TYR	CD2-CE2	-6.60	1.29	1.39
1	P	319	GLU	CD-OE1	6.60	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	G	811	GLU	CD-OE1	6.58	1.32	1.25
1	G	538	GLU	CD-OE1	6.57	1.32	1.25
2	B	150	TYR	CD2-CE2	-6.57	1.29	1.39
1	D	655	GLU	CD-OE1	6.56	1.32	1.25
1	D	538	GLU	CD-OE1	6.54	1.32	1.25
1	A	266	GLU	CD-OE2	6.52	1.32	1.25
1	J	266	GLU	CD-OE2	6.49	1.32	1.25
1	D	538	GLU	CD-OE2	-6.48	1.18	1.25
1	D	319	GLU	CD-OE1	6.48	1.32	1.25
2	N	150	TYR	CD2-CE2	-6.47	1.29	1.39
1	D	266	GLU	CD-OE2	6.46	1.32	1.25
1	G	655	GLU	CD-OE1	6.46	1.32	1.25
1	P	538	GLU	CD-OE2	-6.45	1.18	1.25
1	G	99	GLU	CD-OE2	6.44	1.32	1.25
1	M	266	GLU	CD-OE2	6.44	1.32	1.25
1	J	89	GLU	CD-OE1	6.44	1.32	1.25
1	G	89	GLU	CD-OE1	6.44	1.32	1.25
1	A	319	GLU	CD-OE1	6.43	1.32	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	538	GLU	CD-OE2	-6.43	1.18	1.25
1	M	538	GLU	CD-OE2	-6.43	1.18	1.25
1	J	808	GLU	CD-OE1	6.42	1.32	1.25
2	K	150	TYR	CD2-CE2	-6.42	1.29	1.39
1	G	605	GLU	CD-OE1	6.42	1.32	1.25
1	G	802	GLU	CD-OE1	6.41	1.32	1.25
1	P	266	GLU	CD-OE2	6.40	1.32	1.25
2	Q	150	TYR	CD2-CE2	-6.39	1.29	1.39
1	A	6	GLU	CD-OE1	6.38	1.32	1.25
1	P	89	GLU	CD-OE1	6.38	1.32	1.25
1	A	89	GLU	CD-OE1	6.38	1.32	1.25
1	G	502	GLU	CD-OE2	6.37	1.32	1.25
2	B	150	TYR	N-CA	-6.36	1.33	1.46
1	P	6	GLU	CD-OE1	6.35	1.32	1.25
1	A	605	GLU	CD-OE1	6.35	1.32	1.25
1	J	538	GLU	CD-OE2	-6.35	1.18	1.25
1	J	502	GLU	CD-OE2	6.35	1.32	1.25
1	D	6	GLU	CD-OE1	6.34	1.32	1.25
1	G	538	GLU	CD-OE2	-6.34	1.18	1.25
1	M	808	GLU	CD-OE1	6.33	1.32	1.25
1	P	802	GLU	CD-OE1	6.32	1.32	1.25
1	D	99	GLU	CD-OE2	6.31	1.32	1.25
1	J	6	GLU	CD-OE1	6.31	1.32	1.25
4	3	259	GLU	CG-CD	6.31	1.61	1.51
1	P	502	GLU	CD-OE2	6.30	1.32	1.25
1	G	266	GLU	CD-OE2	6.29	1.32	1.25
2	Q	150	TYR	N-CA	-6.29	1.33	1.46
1	P	808	GLU	CD-OE1	6.28	1.32	1.25
1	A	808	GLU	CD-OE1	6.27	1.32	1.25
1	D	808	GLU	CD-OE1	6.27	1.32	1.25
4	X	259	GLU	CG-CD	6.27	1.61	1.51
2	H	150	TYR	CD2-CE2	-6.27	1.29	1.39
1	D	89	GLU	CD-OE1	6.27	1.32	1.25
2	K	150	TYR	N-CA	-6.27	1.33	1.46
1	M	89	GLU	CD-OE1	6.27	1.32	1.25
1	D	502	GLU	CD-OE2	6.25	1.32	1.25
4	1	259	GLU	CG-CD	6.25	1.61	1.51
4	W	259	GLU	CG-CD	6.25	1.61	1.51
1	J	99	GLU	CD-OE2	6.24	1.32	1.25
1	J	802	GLU	CD-OE1	6.24	1.32	1.25
2	H	150	TYR	N-CA	-6.24	1.33	1.46
4	Y	259	GLU	CG-CD	6.24	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	605	GLU	CD-OE1	6.23	1.32	1.25
4	5	259	GLU	CG-CD	6.23	1.61	1.51
1	A	502	GLU	CD-OE2	6.23	1.32	1.25
2	N	150	TYR	N-CA	-6.23	1.33	1.46
2	E	150	TYR	N-CA	-6.22	1.33	1.46
1	D	605	GLU	CD-OE1	6.21	1.32	1.25
4	Z	259	GLU	CG-CD	6.21	1.61	1.51
4	8	259	GLU	CG-CD	6.21	1.61	1.51
4	4	259	GLU	CG-CD	6.21	1.61	1.51
1	M	99	GLU	CD-OE2	6.21	1.32	1.25
4	2	259	GLU	CG-CD	6.19	1.61	1.51
1	P	99	GLU	CD-OE2	6.19	1.32	1.25
1	M	6	GLU	CD-OE1	6.18	1.32	1.25
1	M	329	GLU	CD-OE1	6.18	1.32	1.25
1	P	605	GLU	CD-OE1	6.18	1.32	1.25
1	M	502	GLU	CD-OE2	6.18	1.32	1.25
1	D	802	GLU	CD-OE1	6.18	1.32	1.25
1	G	808	GLU	CD-OE1	6.17	1.32	1.25
1	A	99	GLU	CD-OE2	6.17	1.32	1.25
1	M	802	GLU	CD-OE1	6.16	1.32	1.25
4	9	259	GLU	CG-CD	6.16	1.61	1.51
4	6	259	GLU	CG-CD	6.15	1.61	1.51
4	V	259	GLU	CG-CD	6.14	1.61	1.51
1	J	605	GLU	CD-OE1	6.13	1.32	1.25
1	G	509	GLU	CD-OE1	6.13	1.32	1.25
4	7	259	GLU	CG-CD	6.12	1.61	1.51
1	G	6	GLU	CD-OE1	6.12	1.32	1.25
1	A	509	GLU	CD-OE1	6.12	1.32	1.25
1	P	509	GLU	CD-OE1	6.11	1.32	1.25
1	D	509	GLU	CD-OE1	6.09	1.32	1.25
1	P	329	GLU	CD-OE1	6.08	1.32	1.25
1	J	329	GLU	CD-OE1	6.06	1.32	1.25
1	G	329	GLU	CD-OE1	6.06	1.32	1.25
1	J	509	GLU	CD-OE1	6.05	1.32	1.25
1	G	540	CYS	CB-SG	-6.04	1.72	1.82
1	D	417	GLU	CD-OE1	6.00	1.32	1.25
1	G	476	GLU	CD-OE2	-6.00	1.19	1.25
1	A	329	GLU	CD-OE1	5.98	1.32	1.25
1	M	509	GLU	CD-OE1	5.98	1.32	1.25
1	A	417	GLU	CD-OE1	5.94	1.32	1.25
1	P	476	GLU	CD-OE2	-5.90	1.19	1.25
1	J	709	LYS	C-N	-5.88	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	540	CYS	CB-SG	-5.88	1.72	1.81
1	A	802	GLU	CD-OE1	5.88	1.32	1.25
1	D	476	GLU	CD-OE2	-5.86	1.19	1.25
1	J	417	GLU	CD-OE1	5.86	1.32	1.25
1	M	527	GLU	CD-OE1	5.86	1.32	1.25
1	M	421	GLU	CD-OE2	5.86	1.32	1.25
1	A	476	GLU	CD-OE2	-5.85	1.19	1.25
1	G	417	GLU	CD-OE1	5.85	1.32	1.25
1	J	540	CYS	CB-SG	-5.84	1.72	1.81
1	D	468	GLU	CD-OE1	5.84	1.32	1.25
1	J	476	GLU	CD-OE2	-5.84	1.19	1.25
1	J	499	GLU	CD-OE2	5.84	1.32	1.25
1	P	540	CYS	CB-SG	-5.83	1.72	1.81
1	P	417	GLU	CD-OE1	5.83	1.32	1.25
1	G	230	GLU	CD-OE2	5.82	1.32	1.25
1	M	476	GLU	CD-OE2	-5.82	1.19	1.25
1	A	540	CYS	CB-SG	-5.81	1.72	1.81
1	G	218	LEU	CB-CG	5.80	1.69	1.52
1	A	468	GLU	CD-OE1	5.79	1.32	1.25
1	J	230	GLU	CD-OE2	5.79	1.32	1.25
1	D	329	GLU	CD-OE1	5.79	1.32	1.25
1	P	230	GLU	CD-OE2	5.78	1.32	1.25
1	P	421	GLU	CD-OE2	5.78	1.32	1.25
1	M	417	GLU	CD-OE1	5.77	1.32	1.25
1	M	230	GLU	CD-OE2	5.77	1.31	1.25
1	A	785	GLU	CD-OE2	5.76	1.31	1.25
1	P	468	GLU	CD-OE1	5.76	1.31	1.25
1	A	230	GLU	CD-OE2	5.76	1.31	1.25
1	D	540	CYS	CB-SG	-5.76	1.72	1.81
1	J	74	GLU	CD-OE2	5.76	1.31	1.25
1	P	499	GLU	CD-OE2	5.75	1.31	1.25
1	G	597	GLU	CD-OE1	5.74	1.31	1.25
1	J	527	GLU	CD-OE1	5.74	1.31	1.25
1	D	785	GLU	CD-OE2	5.74	1.31	1.25
1	G	74	GLU	CD-OE2	5.73	1.31	1.25
1	P	527	GLU	CD-OE1	5.73	1.31	1.25
1	J	468	GLU	CD-OE1	5.73	1.31	1.25
1	M	74	GLU	CD-OE2	5.72	1.31	1.25
1	A	74	GLU	CD-OE2	5.71	1.31	1.25
1	J	421	GLU	CD-OE2	5.71	1.31	1.25
1	M	785	GLU	CD-OE2	5.71	1.31	1.25
1	M	468	GLU	CD-OE1	5.69	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	499	GLU	CD-OE2	5.69	1.31	1.25
1	D	687	GLU	CD-OE1	5.69	1.31	1.25
1	D	625	THR	CB-CG2	5.69	1.71	1.52
1	A	625	THR	CB-CG2	5.68	1.71	1.52
1	A	597	GLU	CD-OE1	5.68	1.31	1.25
1	A	218	LEU	CB-CG	5.67	1.69	1.52
1	D	230	GLU	CD-OE2	5.67	1.31	1.25
1	J	625	THR	CB-CG2	5.66	1.71	1.52
1	P	625	THR	CB-CG2	5.66	1.71	1.52
1	P	74	GLU	CD-OE2	5.66	1.31	1.25
1	M	625	THR	CB-CG2	5.65	1.71	1.52
1	J	218	LEU	CB-CG	5.64	1.69	1.52
1	G	527	GLU	CD-OE1	5.64	1.31	1.25
1	G	625	THR	CB-CG2	5.63	1.71	1.52
1	J	785	GLU	CD-OE2	5.63	1.31	1.25
1	D	597	GLU	CD-OE1	5.63	1.31	1.25
1	D	218	LEU	CB-CG	5.62	1.68	1.52
1	P	218	LEU	CB-CG	5.62	1.68	1.52
1	D	74	GLU	CD-OE2	5.61	1.31	1.25
1	D	499	GLU	CD-OE2	5.60	1.31	1.25
1	A	527	GLU	CD-OE1	5.60	1.31	1.25
1	M	597	GLU	CD-OE1	5.60	1.31	1.25
1	M	218	LEU	CB-CG	5.59	1.68	1.52
1	G	468	GLU	CD-OE1	5.56	1.31	1.25
1	A	687	GLU	CD-OE1	5.56	1.31	1.25
1	G	785	GLU	CD-OE2	5.55	1.31	1.25
1	P	785	GLU	CD-OE2	5.54	1.31	1.25
1	J	597	GLU	CD-OE1	5.54	1.31	1.25
1	P	373	GLU	CD-OE1	5.54	1.31	1.25
1	G	499	GLU	CD-OE2	5.52	1.31	1.25
1	P	777	GLU	CD-OE2	5.51	1.31	1.25
1	A	479	CYS	CB-SG	-5.51	1.72	1.81
2	H	150	TYR	CE1-CZ	5.51	1.45	1.38
1	A	777	GLU	CD-OE2	5.50	1.31	1.25
1	G	479	CYS	CB-SG	-5.50	1.72	1.81
1	P	597	GLU	CD-OE1	5.50	1.31	1.25
2	E	150	TYR	CE1-CZ	5.49	1.45	1.38
1	D	527	GLU	CD-OE1	5.49	1.31	1.25
1	A	499	GLU	CD-OE2	5.49	1.31	1.25
1	G	421	GLU	CD-OE2	5.49	1.31	1.25
1	D	373	GLU	CD-OE1	5.48	1.31	1.25
1	J	373	GLU	CD-OE1	5.48	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	687	GLU	CD-OE1	5.47	1.31	1.25
1	G	298	GLU	CD-OE2	5.47	1.31	1.25
1	A	421	GLU	CD-OE2	5.46	1.31	1.25
1	G	687	GLU	CD-OE1	5.46	1.31	1.25
1	M	777	GLU	CD-OE2	5.45	1.31	1.25
1	P	687	GLU	CD-OE1	5.45	1.31	1.25
1	M	479	CYS	CB-SG	-5.44	1.73	1.81
2	K	131	GLU	N-CA	5.44	1.57	1.46
2	N	131	GLU	N-CA	5.43	1.57	1.46
1	A	373	GLU	CD-OE1	5.42	1.31	1.25
1	G	373	GLU	CD-OE1	5.42	1.31	1.25
1	G	506	GLU	CD-OE2	5.42	1.31	1.25
1	J	777	GLU	CD-OE2	5.41	1.31	1.25
2	K	150	TYR	CE1-CZ	5.41	1.45	1.38
1	D	777	GLU	CD-OE2	5.40	1.31	1.25
1	G	777	GLU	CD-OE2	5.40	1.31	1.25
1	D	421	GLU	CD-OE2	5.40	1.31	1.25
2	B	150	TYR	CE1-CZ	5.40	1.45	1.38
1	J	479	CYS	CB-SG	-5.39	1.73	1.81
2	Q	131	GLU	N-CA	5.38	1.57	1.46
2	Q	150	TYR	CE1-CZ	5.38	1.45	1.38
1	M	373	GLU	CD-OE1	5.38	1.31	1.25
1	M	687	GLU	CD-OE1	5.38	1.31	1.25
1	D	218	LEU	C-N	-5.37	1.21	1.34
1	A	218	LEU	C-N	-5.37	1.21	1.34
1	M	218	LEU	C-N	-5.36	1.21	1.34
1	J	218	LEU	C-N	-5.35	1.21	1.34
2	H	131	GLU	N-CA	5.34	1.57	1.46
1	P	218	LEU	C-N	-5.34	1.21	1.34
1	P	527	GLU	CD-OE2	-5.33	1.19	1.25
1	J	298	GLU	CD-OE2	5.32	1.31	1.25
1	P	479	CYS	CB-SG	-5.32	1.73	1.81
1	G	218	LEU	C-N	-5.30	1.21	1.34
1	A	506	GLU	CD-OE2	5.30	1.31	1.25
1	D	479	CYS	CB-SG	-5.30	1.73	1.81
1	P	298	GLU	CD-OE2	5.30	1.31	1.25
2	B	131	GLU	N-CA	5.29	1.56	1.46
2	E	131	GLU	N-CA	5.29	1.56	1.46
1	A	65	GLU	CD-OE1	5.29	1.31	1.25
1	D	298	GLU	CD-OE2	5.29	1.31	1.25
2	N	150	TYR	CE1-CZ	5.27	1.45	1.38
1	A	298	GLU	CD-OE2	5.26	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	527	GLU	CD-OE2	-5.25	1.19	1.25
1	M	679	GLU	CD-OE2	5.25	1.31	1.25
1	G	679	GLU	CD-OE2	5.24	1.31	1.25
1	D	702	GLU	CD-OE2	5.23	1.31	1.25
1	A	527	GLU	CD-OE2	-5.23	1.20	1.25
1	D	679	GLU	CD-OE2	5.22	1.31	1.25
1	J	679	GLU	CD-OE2	5.21	1.31	1.25
1	D	65	GLU	CD-OE1	5.21	1.31	1.25
1	A	679	GLU	CD-OE2	5.21	1.31	1.25
2	K	149	ASP	CB-CG	5.21	1.62	1.51
1	J	702	GLU	CD-OE2	5.20	1.31	1.25
1	D	282	GLU	CD-OE1	5.19	1.31	1.25
1	M	298	GLU	CD-OE2	5.19	1.31	1.25
1	P	679	GLU	CD-OE2	5.16	1.31	1.25
1	P	21	GLU	CD-OE2	5.16	1.31	1.25
2	Q	149	ASP	CB-CG	5.16	1.62	1.51
1	A	21	GLU	CD-OE2	5.15	1.31	1.25
1	P	65	GLU	CD-OE1	5.15	1.31	1.25
1	M	65	GLU	CD-OE1	5.14	1.31	1.25
2	N	149	ASP	CB-CG	5.14	1.62	1.51
2	B	149	ASP	CB-CG	5.13	1.62	1.51
1	P	702	GLU	CD-OE2	5.13	1.31	1.25
1	A	282	GLU	CD-OE1	5.13	1.31	1.25
1	J	65	GLU	CD-OE1	5.13	1.31	1.25
1	P	12	GLU	CD-OE2	5.13	1.31	1.25
1	P	506	GLU	CD-OE2	5.12	1.31	1.25
1	G	697	CYS	CB-SG	5.12	1.91	1.82
1	A	150	GLU	CD-OE1	5.12	1.31	1.25
1	J	527	GLU	CD-OE2	-5.11	1.20	1.25
1	G	65	GLU	CD-OE1	5.11	1.31	1.25
1	G	21	GLU	CD-OE2	5.11	1.31	1.25
1	J	282	GLU	CD-OE1	5.11	1.31	1.25
2	E	149	ASP	CB-CG	5.11	1.62	1.51
1	A	702	GLU	CD-OE2	5.10	1.31	1.25
1	G	12	GLU	CD-OE2	5.09	1.31	1.25
1	D	506	GLU	CD-OE2	5.08	1.31	1.25
1	P	282	GLU	CD-OE1	5.08	1.31	1.25
1	J	21	GLU	CD-OE2	5.08	1.31	1.25
1	G	702	GLU	CD-OE2	5.06	1.31	1.25
4	9	259	GLU	CB-CG	5.06	1.61	1.52
1	M	702	GLU	CD-OE2	5.06	1.31	1.25
1	J	12	GLU	CD-OE2	5.05	1.31	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	150	GLU	CD-OE1	5.05	1.31	1.25
1	D	527	GLU	CD-OE2	-5.05	1.20	1.25
1	M	282	GLU	CD-OE1	5.04	1.31	1.25
4	Y	259	GLU	CB-CG	5.04	1.61	1.52
4	Z	259	GLU	CB-CG	5.04	1.61	1.52
4	5	259	GLU	CB-CG	5.04	1.61	1.52
1	M	12	GLU	CD-OE2	5.03	1.31	1.25
1	A	697	CYS	CB-SG	5.03	1.90	1.82
1	G	527	GLU	CD-OE2	-5.03	1.20	1.25
1	M	506	GLU	CD-OE2	5.03	1.31	1.25
4	V	259	GLU	CB-CG	5.03	1.61	1.52
1	D	282	GLU	CD-OE2	-5.03	1.20	1.25
1	J	506	GLU	CD-OE2	5.03	1.31	1.25
1	P	697	CYS	CB-SG	5.02	1.90	1.82
4	6	259	GLU	CB-CG	5.01	1.61	1.52
4	1	259	GLU	CB-CG	5.01	1.61	1.52
1	M	697	CYS	CB-SG	5.01	1.90	1.82
4	3	259	GLU	CB-CG	5.01	1.61	1.52
4	4	259	GLU	CB-CG	5.00	1.61	1.52
1	A	56	GLU	CD-OE1	5.00	1.31	1.25

All (1555) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	637	LYS	O-C-N	-58.52	23.72	123.20
1	P	637	LYS	O-C-N	-58.47	23.80	123.20
1	M	637	LYS	O-C-N	-58.47	23.81	123.20
1	D	637	LYS	O-C-N	-58.46	23.81	123.20
1	J	637	LYS	O-C-N	-58.43	23.87	123.20
1	A	637	LYS	O-C-N	-58.42	23.88	123.20
1	J	709	LYS	O-C-N	-38.29	58.10	123.20
1	P	649	VAL	CG1-CB-CG2	-34.02	56.47	110.90
1	M	649	VAL	CG1-CB-CG2	-34.01	56.48	110.90
1	D	649	VAL	CG1-CB-CG2	-34.00	56.50	110.90
1	G	649	VAL	CG1-CB-CG2	-34.00	56.50	110.90
1	J	649	VAL	CG1-CB-CG2	-34.00	56.50	110.90
1	A	649	VAL	CG1-CB-CG2	-33.97	56.55	110.90
1	P	785	GLU	O-C-N	-31.75	71.90	122.70
1	J	648	THR	CA-CB-OG1	-31.71	42.41	109.00
1	P	648	THR	CA-CB-OG1	-31.71	42.41	109.00
1	A	648	THR	CA-CB-OG1	-31.70	42.43	109.00
1	D	648	THR	CA-CB-OG1	-31.69	42.45	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	648	THR	CA-CB-OG1	-31.68	42.46	109.00
1	G	648	THR	CA-CB-OG1	-31.66	42.51	109.00
2	K	150	TYR	CB-CG-CD2	-28.64	103.81	121.00
2	E	150	TYR	CB-CG-CD2	-28.60	103.84	121.00
2	H	150	TYR	CB-CG-CD2	-28.60	103.84	121.00
2	B	150	TYR	CB-CG-CD2	-28.58	103.86	121.00
2	Q	150	TYR	CB-CG-CD2	-28.57	103.86	121.00
1	G	649	VAL	CA-CB-CG1	-28.52	68.12	110.90
2	N	150	TYR	CB-CG-CD2	-28.52	103.89	121.00
1	D	649	VAL	CA-CB-CG1	-28.48	68.18	110.90
1	P	649	VAL	CA-CB-CG1	-28.47	68.19	110.90
1	M	649	VAL	CA-CB-CG1	-28.46	68.20	110.90
1	J	649	VAL	CA-CB-CG1	-28.46	68.21	110.90
1	A	649	VAL	CA-CB-CG1	-28.41	68.28	110.90
1	D	649	VAL	CA-CB-CG2	-28.18	68.64	110.90
1	G	649	VAL	CA-CB-CG2	-28.17	68.64	110.90
1	M	649	VAL	CA-CB-CG2	-28.17	68.65	110.90
1	A	649	VAL	CA-CB-CG2	-28.16	68.66	110.90
1	P	649	VAL	CA-CB-CG2	-28.14	68.68	110.90
1	J	649	VAL	CA-CB-CG2	-28.14	68.70	110.90
1	M	806	MET	O-C-N	26.74	165.48	122.70
1	M	785	GLU	O-C-N	-25.76	81.48	122.70
1	D	648	THR	CA-CB-CG2	-25.61	76.54	112.40
1	P	648	THR	CA-CB-CG2	-25.58	76.59	112.40
1	M	648	THR	CA-CB-CG2	-25.56	76.62	112.40
1	J	648	THR	CA-CB-CG2	-25.50	76.69	112.40
1	A	648	THR	CA-CB-CG2	-25.48	76.72	112.40
1	G	648	THR	CA-CB-CG2	-25.42	76.81	112.40
1	M	769	ALA	O-C-N	-22.36	85.18	123.20
2	H	150	TYR	CG-CD2-CE2	-20.98	104.51	121.30
2	N	150	TYR	CG-CD2-CE2	-20.69	104.75	121.30
2	K	150	TYR	CG-CD2-CE2	-20.67	104.77	121.30
2	E	150	TYR	CG-CD2-CE2	-20.55	104.86	121.30
2	Q	150	TYR	CG-CD2-CE2	-20.52	104.89	121.30
2	B	150	TYR	CG-CD2-CE2	-20.40	104.98	121.30
1	M	806	MET	CA-C-N	-20.30	72.53	117.20
2	K	150	TYR	CD1-CG-CD2	19.54	139.39	117.90
2	H	150	TYR	CD1-CG-CD2	19.46	139.31	117.90
2	E	150	TYR	CD1-CG-CD2	19.46	139.30	117.90
2	B	150	TYR	CD1-CG-CD2	19.42	139.26	117.90
2	N	150	TYR	CD1-CG-CD2	19.42	139.26	117.90
2	Q	150	TYR	CD1-CG-CD2	19.40	139.24	117.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	150	TYR	CG-CD1-CE1	-18.56	106.45	121.30
2	K	150	TYR	CG-CD1-CE1	-18.49	106.51	121.30
2	N	150	TYR	CG-CD1-CE1	-18.49	106.51	121.30
2	Q	150	TYR	CG-CD1-CE1	-18.44	106.55	121.30
2	E	150	TYR	CG-CD1-CE1	-18.40	106.58	121.30
2	B	150	TYR	CG-CD1-CE1	-18.33	106.64	121.30
1	P	769	ALA	O-C-N	-18.10	92.43	123.20
1	M	786	ILE	O-C-N	-17.04	95.44	122.70
1	P	800	ARG	NE-CZ-NH2	-16.83	111.89	120.30
1	M	800	ARG	NE-CZ-NH2	-16.68	111.96	120.30
1	J	800	ARG	NE-CZ-NH2	-16.66	111.97	120.30
1	D	800	ARG	NE-CZ-NH2	-16.54	112.03	120.30
1	P	806	MET	O-C-N	16.53	149.14	122.70
1	G	800	ARG	NE-CZ-NH2	-16.46	112.07	120.30
1	A	800	ARG	NE-CZ-NH2	-16.30	112.15	120.30
1	P	806	MET	CA-C-N	-15.46	83.19	117.20
1	P	785	GLU	CA-C-N	15.07	150.36	117.20
1	M	806	MET	C-N-CA	-13.82	87.15	121.70
1	G	623	PHE	CB-CG-CD2	-13.77	111.16	120.80
1	M	623	PHE	CB-CG-CD2	-13.77	111.17	120.80
1	A	623	PHE	CB-CG-CD2	-13.73	111.19	120.80
1	J	623	PHE	CB-CG-CD2	-13.70	111.21	120.80
1	D	623	PHE	CB-CG-CD2	-13.68	111.22	120.80
1	P	623	PHE	CB-CG-CD2	-13.63	111.26	120.80
1	M	785	GLU	CA-C-N	12.99	145.78	117.20
1	M	623	PHE	CB-CG-CD1	12.44	129.51	120.80
1	A	623	PHE	CB-CG-CD1	12.38	129.46	120.80
1	P	623	PHE	CB-CG-CD1	12.37	129.46	120.80
1	G	623	PHE	CB-CG-CD1	12.37	129.46	120.80
1	J	623	PHE	CB-CG-CD1	12.34	129.44	120.80
1	P	623	PHE	CA-CB-CG	-12.28	84.44	113.90
1	A	623	PHE	CA-CB-CG	-12.26	84.47	113.90
1	M	623	PHE	CA-CB-CG	-12.26	84.48	113.90
1	J	623	PHE	CA-CB-CG	-12.25	84.50	113.90
1	D	623	PHE	CA-CB-CG	-12.24	84.53	113.90
1	G	623	PHE	CA-CB-CG	-12.21	84.59	113.90
1	D	623	PHE	CB-CG-CD1	12.06	129.25	120.80
1	J	98	HIS	CB-CA-C	-11.58	87.23	110.40
1	M	98	HIS	CB-CA-C	-11.58	87.24	110.40
1	P	98	HIS	CB-CA-C	-11.57	87.26	110.40
1	A	98	HIS	CB-CA-C	-11.54	87.33	110.40
1	J	709	LYS	CA-C-N	11.53	139.25	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	98	HIS	CB-CA-C	-11.52	87.36	110.40
1	D	98	HIS	CB-CA-C	-11.49	87.43	110.40
1	P	806	MET	C-N-CA	-10.89	94.48	121.70
1	D	568	PRO	O-C-N	10.68	139.78	122.70
1	A	568	PRO	O-C-N	10.67	139.77	122.70
1	G	568	PRO	O-C-N	10.65	139.74	122.70
1	M	568	PRO	O-C-N	10.62	139.70	122.70
1	P	568	PRO	O-C-N	10.62	139.68	122.70
1	J	568	PRO	O-C-N	10.61	139.68	122.70
2	E	141	PRO	CA-N-CD	10.28	126.09	111.70
2	Q	141	PRO	CA-N-CD	10.28	126.09	111.70
2	H	141	PRO	CA-N-CD	10.24	126.04	111.70
2	K	141	PRO	CA-N-CD	10.20	125.97	111.70
2	N	141	PRO	CA-N-CD	10.18	125.95	111.70
2	B	141	PRO	CA-N-CD	10.15	125.91	111.70
1	G	327	ASP	CB-CG-OD1	-10.09	109.22	118.30
1	G	625	THR	CA-CB-CG2	-10.07	98.30	112.40
1	A	327	ASP	CB-CG-OD1	-10.04	109.27	118.30
1	J	625	THR	CA-CB-CG2	-10.03	98.35	112.40
1	P	625	THR	CA-CB-CG2	-10.03	98.36	112.40
1	P	327	ASP	CB-CG-OD1	-10.03	109.28	118.30
1	A	625	THR	CA-CB-CG2	-10.01	98.38	112.40
1	D	327	ASP	CB-CG-OD1	-10.00	109.30	118.30
1	D	625	THR	CA-CB-CG2	-10.00	98.40	112.40
1	J	327	ASP	CB-CG-OD1	-10.00	109.30	118.30
1	M	625	THR	CA-CB-CG2	-10.00	98.40	112.40
1	M	327	ASP	CB-CG-OD1	-9.99	109.31	118.30
1	A	241	ASP	CB-CG-OD1	-9.86	109.43	118.30
1	J	241	ASP	CB-CG-OD1	-9.86	109.43	118.30
1	P	786	ILE	O-C-N	-9.85	106.94	122.70
1	D	728	ASN	O-C-N	9.81	138.40	122.70
3	C	63	ILE	O-C-N	9.81	138.39	122.70
1	G	241	ASP	CB-CG-OD1	-9.79	109.48	118.30
1	D	241	ASP	CB-CG-OD1	-9.77	109.51	118.30
3	I	63	ILE	O-C-N	9.75	138.30	122.70
1	P	728	ASN	O-C-N	9.72	138.26	122.70
1	P	241	ASP	CB-CG-OD1	-9.72	109.55	118.30
1	M	241	ASP	CB-CG-OD1	-9.71	109.56	118.30
3	F	63	ILE	O-C-N	9.69	138.21	122.70
1	M	728	ASN	O-C-N	9.68	138.19	122.70
3	R	63	ILE	O-C-N	9.66	138.15	122.70
1	J	728	ASN	O-C-N	9.65	138.14	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	63	ILE	O-C-N	9.64	138.12	122.70
3	O	63	ILE	O-C-N	9.63	138.10	122.70
1	A	728	ASN	O-C-N	9.58	138.03	122.70
1	G	728	ASN	O-C-N	9.54	137.96	122.70
1	G	264	ASP	CB-CG-OD2	-9.47	109.78	118.30
1	D	264	ASP	CB-CG-OD2	-9.45	109.80	118.30
2	H	150	TYR	N-CA-CB	-9.42	93.65	110.60
1	M	264	ASP	CB-CG-OD2	-9.41	109.83	118.30
2	E	150	TYR	N-CA-CB	-9.40	93.67	110.60
1	J	264	ASP	CB-CG-OD2	-9.40	109.84	118.30
1	A	264	ASP	CB-CG-OD2	-9.40	109.84	118.30
2	N	150	TYR	N-CA-CB	-9.37	93.73	110.60
2	K	150	TYR	N-CA-CB	-9.34	93.79	110.60
1	P	264	ASP	CB-CG-OD2	-9.34	109.89	118.30
2	Q	150	TYR	N-CA-CB	-9.33	93.81	110.60
2	B	150	TYR	N-CA-CB	-9.29	93.88	110.60
4	6	356	TRP	CD1-CG-CD2	9.24	113.69	106.30
1	P	786	ILE	CA-C-N	-9.21	96.93	117.20
4	Y	356	TRP	CD1-CG-CD2	9.16	113.63	106.30
4	Z	356	TRP	CD1-CG-CD2	9.15	113.62	106.30
4	7	356	TRP	CD1-CG-CD2	9.14	113.61	106.30
4	8	356	TRP	CD1-CG-CD2	9.12	113.59	106.30
4	3	356	TRP	CD1-CG-CD2	9.12	113.59	106.30
4	5	356	TRP	CD1-CG-CD2	9.10	113.58	106.30
4	W	356	TRP	CD1-CG-CD2	9.10	113.58	106.30
4	X	356	TRP	CD1-CG-CD2	9.10	113.58	106.30
4	2	356	TRP	CD1-CG-CD2	9.07	113.56	106.30
4	V	356	TRP	CD1-CG-CD2	9.06	113.55	106.30
4	4	356	TRP	CD1-CG-CD2	9.06	113.55	106.30
4	1	356	TRP	CD1-CG-CD2	9.05	113.54	106.30
4	9	356	TRP	CD1-CG-CD2	9.04	113.53	106.30
1	P	378	ASP	CB-CG-OD2	8.99	126.39	118.30
1	J	378	ASP	CB-CG-OD2	8.97	126.37	118.30
1	M	352	TYR	CB-CG-CD1	8.95	126.37	121.00
1	M	378	ASP	CB-CG-OD2	8.94	126.35	118.30
1	D	378	ASP	CB-CG-OD2	8.93	126.34	118.30
1	J	352	TYR	CB-CG-CD1	8.93	126.36	121.00
1	P	352	TYR	CB-CG-CD1	8.89	126.34	121.00
1	A	378	ASP	CB-CG-OD2	8.87	126.28	118.30
1	G	378	ASP	CB-CG-OD2	8.87	126.28	118.30
1	G	352	TYR	CB-CG-CD1	8.80	126.28	121.00
4	V	177	ARG	NE-CZ-NH2	-8.80	115.90	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	138	ALA	O-C-N	-8.79	108.64	122.70
1	A	352	TYR	CB-CG-CD1	8.77	126.26	121.00
2	Q	138	ALA	O-C-N	-8.77	108.67	122.70
1	D	352	TYR	CB-CG-CD1	8.76	126.25	121.00
2	N	138	ALA	O-C-N	-8.70	108.78	122.70
4	2	177	ARG	NE-CZ-NH2	-8.68	115.96	120.30
2	B	138	ALA	O-C-N	-8.68	108.81	122.70
1	G	709	LYS	C-N-CA	8.67	140.51	122.30
2	E	138	ALA	O-C-N	-8.66	108.84	122.70
2	H	138	ALA	O-C-N	-8.65	108.86	122.70
4	8	177	ARG	NE-CZ-NH2	-8.65	115.98	120.30
4	8	86	TRP	CD1-CG-CD2	8.63	113.21	106.30
1	M	601	ASP	CB-CG-OD1	-8.62	110.55	118.30
4	4	177	ARG	NE-CZ-NH2	-8.57	116.01	120.30
4	5	177	ARG	NE-CZ-NH2	-8.56	116.02	120.30
1	D	601	ASP	CB-CG-OD1	-8.56	110.60	118.30
4	1	86	TRP	CD1-CG-CD2	8.55	113.14	106.30
1	P	601	ASP	CB-CG-OD1	-8.52	110.63	118.30
4	V	86	TRP	CD1-CG-CD2	8.52	113.12	106.30
4	2	86	TRP	CD1-CG-CD2	8.52	113.11	106.30
4	7	177	ARG	NE-CZ-NH2	-8.51	116.04	120.30
4	Y	86	TRP	CD1-CG-CD2	8.51	113.11	106.30
4	6	177	ARG	NE-CZ-NH2	-8.50	116.05	120.30
4	X	177	ARG	NE-CZ-NH2	-8.50	116.05	120.30
4	W	86	TRP	CD1-CG-CD2	8.50	113.10	106.30
4	3	177	ARG	NE-CZ-NH2	-8.48	116.06	120.30
1	J	601	ASP	CB-CG-OD1	-8.47	110.67	118.30
4	Z	86	TRP	CD1-CG-CD2	8.47	113.08	106.30
4	Z	177	ARG	NE-CZ-NH2	-8.46	116.07	120.30
4	W	177	ARG	NE-CZ-NH2	-8.46	116.07	120.30
4	9	86	TRP	CD1-CG-CD2	8.46	113.06	106.30
1	P	352	TYR	CB-CG-CD2	-8.45	115.93	121.00
1	G	601	ASP	CB-CG-OD1	-8.45	110.70	118.30
1	M	352	TYR	CB-CG-CD2	-8.45	115.93	121.00
4	4	86	TRP	CD1-CG-CD2	8.45	113.06	106.30
4	5	86	TRP	CD1-CG-CD2	8.43	113.04	106.30
4	X	86	TRP	CD1-CG-CD2	8.42	113.04	106.30
4	3	86	TRP	CD1-CG-CD2	8.42	113.03	106.30
4	6	86	TRP	CD1-CG-CD2	8.42	113.04	106.30
1	A	601	ASP	CB-CG-OD1	-8.42	110.73	118.30
1	P	33	ASP	CB-CG-OD1	-8.41	110.73	118.30
4	7	86	TRP	CD1-CG-CD2	8.41	113.03	106.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	9	177	ARG	NE-CZ-NH2	-8.40	116.10	120.30
1	G	33	ASP	CB-CG-OD1	-8.40	110.74	118.30
1	J	352	TYR	CB-CG-CD2	-8.40	115.96	121.00
1	M	33	ASP	CB-CG-OD1	-8.39	110.75	118.30
1	J	33	ASP	CB-CG-OD1	-8.38	110.76	118.30
1	A	352	TYR	CB-CG-CD2	-8.37	115.98	121.00
4	1	177	ARG	NE-CZ-NH2	-8.36	116.12	120.30
1	D	33	ASP	CB-CG-OD1	-8.32	110.81	118.30
4	Y	177	ARG	NE-CZ-NH2	-8.31	116.14	120.30
1	P	786	ILE	C-N-CA	-8.29	100.97	121.70
1	G	352	TYR	CB-CG-CD2	-8.23	116.06	121.00
1	A	33	ASP	CB-CG-OD1	-8.20	110.92	118.30
1	D	352	TYR	CB-CG-CD2	-8.08	116.15	121.00
4	6	356	TRP	CE2-CD2-CG	-8.04	100.87	107.30
4	Y	356	TRP	CE2-CD2-CG	-8.02	100.88	107.30
1	A	339	ASP	CB-CG-OD1	-7.99	111.11	118.30
4	7	356	TRP	CE2-CD2-CG	-7.97	100.92	107.30
4	3	356	TRP	CE2-CD2-CG	-7.96	100.93	107.30
4	2	356	TRP	CE2-CD2-CG	-7.95	100.94	107.30
4	5	356	TRP	CE2-CD2-CG	-7.95	100.94	107.30
4	V	356	TRP	CE2-CD2-CG	-7.94	100.95	107.30
1	D	637	LYS	CA-C-N	7.94	132.08	116.20
1	A	637	LYS	CA-C-N	7.94	132.07	116.20
4	8	356	TRP	CE2-CD2-CG	-7.93	100.95	107.30
4	W	356	TRP	CE2-CD2-CG	-7.93	100.95	107.30
4	Z	356	TRP	CE2-CD2-CG	-7.93	100.96	107.30
4	4	356	TRP	CE2-CD2-CG	-7.92	100.96	107.30
1	P	339	ASP	CB-CG-OD1	-7.92	111.17	118.30
1	J	637	LYS	CA-C-N	7.91	132.03	116.20
4	X	356	TRP	CE2-CD2-CG	-7.91	100.98	107.30
4	1	356	TRP	CE2-CD2-CG	-7.90	100.98	107.30
4	9	356	TRP	CE2-CD2-CG	-7.90	100.98	107.30
1	M	637	LYS	CA-C-N	7.90	131.99	116.20
2	E	150	TYR	CD1-CE1-CZ	-7.89	112.69	119.80
1	P	637	LYS	CA-C-N	7.87	131.95	116.20
1	G	637	LYS	CA-C-N	7.86	131.93	116.20
1	G	339	ASP	CB-CG-OD1	-7.86	111.23	118.30
1	J	339	ASP	CB-CG-OD1	-7.86	111.23	118.30
1	D	339	ASP	CB-CG-OD1	-7.85	111.23	118.30
2	B	150	TYR	CD1-CE1-CZ	-7.81	112.77	119.80
1	D	202	SER	CB-CA-C	-7.79	95.29	110.10
4	1	312	ARG	NE-CZ-NH2	7.78	124.19	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	339	ASP	CB-CG-OD1	-7.77	111.31	118.30
1	A	202	SER	CB-CA-C	-7.77	95.34	110.10
2	H	150	TYR	CD1-CE1-CZ	-7.76	112.81	119.80
2	K	150	TYR	CD1-CE1-CZ	-7.76	112.82	119.80
1	G	202	SER	CB-CA-C	-7.76	95.36	110.10
1	J	202	SER	CB-CA-C	-7.76	95.36	110.10
1	P	653	PHE	CB-CG-CD1	-7.74	115.38	120.80
1	P	202	SER	CB-CA-C	-7.74	95.40	110.10
1	M	653	PHE	CB-CG-CD1	-7.74	115.38	120.80
4	W	312	ARG	NE-CZ-NH2	7.73	124.16	120.30
1	J	653	PHE	CB-CG-CD1	-7.72	115.40	120.80
1	M	202	SER	CB-CA-C	-7.72	95.43	110.10
4	X	312	ARG	NE-CZ-NH2	7.69	124.14	120.30
2	Q	150	TYR	CD1-CE1-CZ	-7.69	112.88	119.80
4	9	312	ARG	NE-CZ-NH2	7.66	124.13	120.30
2	N	150	TYR	CD1-CE1-CZ	-7.65	112.91	119.80
1	D	653	PHE	CB-CG-CD1	-7.63	115.46	120.80
1	G	653	PHE	CB-CG-CD1	-7.63	115.46	120.80
4	8	312	ARG	NE-CZ-NH2	7.61	124.11	120.30
1	G	654	ARG	NE-CZ-NH1	7.61	124.10	120.30
4	8	86	TRP	CE2-CD2-CG	-7.59	101.23	107.30
1	D	654	ARG	NE-CZ-NH1	7.59	124.09	120.30
4	1	86	TRP	CE2-CD2-CG	-7.58	101.23	107.30
4	W	86	TRP	CE2-CD2-CG	-7.58	101.23	107.30
4	7	312	ARG	NE-CZ-NH2	7.58	124.09	120.30
4	2	86	TRP	CE2-CD2-CG	-7.57	101.25	107.30
4	V	86	TRP	CE2-CD2-CG	-7.57	101.25	107.30
4	Y	86	TRP	CE2-CD2-CG	-7.56	101.25	107.30
4	X	86	TRP	CE2-CD2-CG	-7.55	101.26	107.30
4	3	312	ARG	NE-CZ-NH2	7.54	124.07	120.30
4	6	86	TRP	CE2-CD2-CG	-7.53	101.28	107.30
1	A	654	ARG	NE-CZ-NH1	7.53	124.06	120.30
4	3	86	TRP	CE2-CD2-CG	-7.51	101.29	107.30
4	V	312	ARG	NE-CZ-NH2	7.51	124.06	120.30
3	C	63	ILE	CG1-CB-CG2	-7.51	94.89	111.40
4	5	312	ARG	NE-CZ-NH2	7.51	124.05	120.30
3	O	63	ILE	CG1-CB-CG2	-7.50	94.90	111.40
4	6	312	ARG	NE-CZ-NH2	7.50	124.05	120.30
4	4	312	ARG	NE-CZ-NH2	7.50	124.05	120.30
2	E	127	ARG	NE-CZ-NH2	7.50	124.05	120.30
3	I	63	ILE	CG1-CB-CG2	-7.50	94.91	111.40
4	4	86	TRP	CE2-CD2-CG	-7.49	101.30	107.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7	86	TRP	CE2-CD2-CG	-7.49	101.31	107.30
4	Z	86	TRP	CE2-CD2-CG	-7.49	101.31	107.30
3	F	63	ILE	CG1-CB-CG2	-7.49	94.92	111.40
4	Y	312	ARG	NE-CZ-NH2	7.48	124.04	120.30
4	5	86	TRP	CE2-CD2-CG	-7.48	101.31	107.30
2	B	127	ARG	NE-CZ-NH2	7.47	124.03	120.30
3	L	63	ILE	CG1-CB-CG2	-7.47	94.97	111.40
4	Z	312	ARG	NE-CZ-NH2	7.47	124.03	120.30
1	A	653	PHE	CB-CG-CD1	-7.46	115.58	120.80
1	J	518	ASP	CB-CG-OD1	-7.46	111.59	118.30
3	R	63	ILE	CG1-CB-CG2	-7.45	95.00	111.40
4	9	86	TRP	CE2-CD2-CG	-7.45	101.34	107.30
1	A	346	ASP	CB-CG-OD2	-7.44	111.60	118.30
1	P	518	ASP	CB-CG-OD1	-7.43	111.62	118.30
1	G	346	ASP	CB-CG-OD2	-7.42	111.62	118.30
1	P	654	ARG	NE-CZ-NH1	7.42	124.01	120.30
4	X	254	ARG	NE-CZ-NH2	-7.41	116.59	120.30
1	D	518	ASP	CB-CG-OD1	-7.41	111.63	118.30
1	J	654	ARG	NE-CZ-NH1	7.41	124.00	120.30
4	5	254	ARG	NE-CZ-NH2	-7.41	116.60	120.30
1	M	654	ARG	NE-CZ-NH1	7.40	124.00	120.30
1	M	104	TYR	CB-CG-CD2	7.39	125.44	121.00
3	I	63	ILE	CA-C-N	-7.39	100.94	117.20
1	A	518	ASP	CB-CG-OD1	-7.39	111.65	118.30
4	2	312	ARG	NE-CZ-NH2	7.39	123.99	120.30
4	7	233	SER	CA-C-N	-7.38	100.96	117.20
4	Z	233	SER	CA-C-N	-7.38	100.95	117.20
4	X	233	SER	CA-C-N	-7.38	100.97	117.20
4	1	233	SER	CA-C-N	-7.37	100.98	117.20
4	4	233	SER	CA-C-N	-7.37	100.98	117.20
4	V	233	SER	CA-C-N	-7.37	100.98	117.20
4	8	233	SER	CA-C-N	-7.37	100.99	117.20
4	5	233	SER	CA-C-N	-7.36	101.00	117.20
1	M	518	ASP	CB-CG-OD1	-7.36	111.67	118.30
4	6	233	SER	CA-C-N	-7.36	101.01	117.20
4	Z	180	LEU	CA-CB-CG	7.36	132.22	115.30
3	C	63	ILE	CA-C-N	-7.36	101.02	117.20
4	3	233	SER	CA-C-N	-7.36	101.02	117.20
4	7	180	LEU	CA-CB-CG	7.35	132.21	115.30
4	9	233	SER	CA-C-N	-7.35	101.02	117.20
4	Y	233	SER	CA-C-N	-7.35	101.03	117.20
1	D	346	ASP	CB-CG-OD2	-7.35	111.69	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	3	180	LEU	CA-CB-CG	7.35	132.20	115.30
4	9	180	LEU	CA-CB-CG	7.34	132.19	115.30
4	5	180	LEU	CA-CB-CG	7.34	132.19	115.30
3	R	63	ILE	CA-C-N	-7.34	101.05	117.20
4	4	180	LEU	CA-CB-CG	7.34	132.18	115.30
4	8	180	LEU	CA-CB-CG	7.34	132.18	115.30
4	2	233	SER	CA-C-N	-7.34	101.06	117.20
4	W	180	LEU	CA-CB-CG	7.34	132.17	115.30
3	L	63	ILE	CA-C-N	-7.33	101.07	117.20
4	W	233	SER	CA-C-N	-7.33	101.07	117.20
4	X	180	LEU	CA-CB-CG	7.33	132.16	115.30
4	6	180	LEU	CA-CB-CG	7.33	132.15	115.30
4	2	180	LEU	CA-CB-CG	7.32	132.14	115.30
3	O	63	ILE	CA-C-N	-7.32	101.10	117.20
4	1	180	LEU	CA-CB-CG	7.32	132.13	115.30
4	8	254	ARG	NE-CZ-NH2	-7.32	116.64	120.30
4	Y	180	LEU	CA-CB-CG	7.30	132.10	115.30
3	F	63	ILE	CA-C-N	-7.30	101.14	117.20
4	V	180	LEU	CA-CB-CG	7.29	132.08	115.30
1	J	346	ASP	CB-CG-OD2	-7.29	111.74	118.30
1	M	346	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	P	346	ASP	CB-CG-OD2	-7.28	111.75	118.30
1	J	104	TYR	CB-CG-CD2	7.27	125.36	121.00
4	Z	79	TRP	CD1-CG-CD2	7.26	112.11	106.30
4	W	79	TRP	CD1-CG-CD2	7.26	112.11	106.30
1	G	518	ASP	CB-CG-OD1	-7.26	111.77	118.30
4	2	254	ARG	NE-CZ-NH2	-7.25	116.67	120.30
1	P	104	TYR	CB-CG-CD2	7.25	125.35	121.00
1	A	148	ARG	NE-CZ-NH2	-7.24	116.68	120.30
4	9	254	ARG	NE-CZ-NH2	-7.21	116.69	120.30
4	Z	340	TRP	CE2-CD2-CG	-7.21	101.53	107.30
4	Z	254	ARG	NE-CZ-NH2	-7.20	116.70	120.30
4	V	340	TRP	CE2-CD2-CG	-7.20	101.54	107.30
4	1	254	ARG	NE-CZ-NH2	-7.18	116.71	120.30
4	4	79	TRP	CD1-CG-CD2	7.18	112.04	106.30
4	9	340	TRP	CE2-CD2-CG	-7.17	101.56	107.30
4	6	254	ARG	NE-CZ-NH2	-7.17	116.71	120.30
4	6	340	TRP	CE2-CD2-CG	-7.17	101.56	107.30
4	8	79	TRP	CD1-CG-CD2	7.17	112.04	106.30
4	9	79	TRP	CD1-CG-CD2	7.17	112.03	106.30
4	V	79	TRP	CD1-CG-CD2	7.17	112.03	106.30
2	K	150	TYR	CB-CG-CD1	-7.16	116.70	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	79	TRP	CD1-CG-CD2	7.16	112.03	106.30
1	D	104	TYR	CB-CG-CD2	7.16	125.30	121.00
4	8	340	TRP	CE2-CD2-CG	-7.16	101.57	107.30
4	X	79	TRP	CD1-CG-CD2	7.16	112.03	106.30
4	3	340	TRP	CE2-CD2-CG	-7.16	101.57	107.30
4	5	340	TRP	CE2-CD2-CG	-7.16	101.57	107.30
4	2	79	TRP	CD1-CG-CD2	7.15	112.02	106.30
4	X	340	TRP	CE2-CD2-CG	-7.15	101.58	107.30
4	9	206	ARG	NE-CZ-NH1	7.15	123.88	120.30
4	Y	79	TRP	CD1-CG-CD2	7.15	112.02	106.30
4	3	206	ARG	NE-CZ-NH1	7.14	123.87	120.30
1	G	104	TYR	CB-CG-CD2	7.14	125.28	121.00
4	7	79	TRP	CD1-CG-CD2	7.13	112.01	106.30
4	2	206	ARG	NE-CZ-NH1	7.13	123.87	120.30
4	7	340	TRP	CE2-CD2-CG	-7.13	101.60	107.30
4	3	79	TRP	CD1-CG-CD2	7.13	112.00	106.30
1	G	568	PRO	CA-C-N	-7.12	101.53	117.20
4	4	254	ARG	NE-CZ-NH2	-7.12	116.74	120.30
4	1	340	TRP	CE2-CD2-CG	-7.12	101.60	107.30
4	5	79	TRP	CD1-CG-CD2	7.12	112.00	106.30
4	W	340	TRP	CE2-CD2-CG	-7.12	101.60	107.30
4	Y	340	TRP	CE2-CD2-CG	-7.12	101.60	107.30
2	H	150	TYR	CB-CG-CD1	-7.12	116.73	121.00
4	6	79	TRP	CD1-CG-CD2	7.12	111.99	106.30
1	A	568	PRO	CA-C-N	-7.12	101.54	117.20
1	M	568	PRO	CA-C-N	-7.11	101.57	117.20
4	W	254	ARG	NE-CZ-NH2	-7.10	116.75	120.30
4	4	206	ARG	NE-CZ-NH1	7.09	123.85	120.30
4	2	340	TRP	CE2-CD2-CG	-7.08	101.63	107.30
4	7	206	ARG	NE-CZ-NH1	7.08	123.84	120.30
4	7	254	ARG	NE-CZ-NH2	-7.08	116.76	120.30
1	J	568	PRO	CA-C-N	-7.08	101.62	117.20
2	N	150	TYR	CB-CG-CD1	-7.08	116.75	121.00
4	Y	254	ARG	NE-CZ-NH2	-7.07	116.76	120.30
1	D	218	LEU	CB-CG-CD1	7.07	123.01	111.00
1	D	568	PRO	CA-C-N	-7.07	101.65	117.20
2	H	127	ARG	NE-CZ-NH2	7.07	123.83	120.30
1	P	568	PRO	CA-C-N	-7.07	101.65	117.20
4	8	206	ARG	NE-CZ-NH1	7.07	123.83	120.30
4	X	206	ARG	NE-CZ-NH1	7.06	123.83	120.30
4	4	340	TRP	CE2-CD2-CG	-7.06	101.66	107.30
2	E	150	TYR	CB-CG-CD1	-7.05	116.77	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	206	ARG	NE-CZ-NH1	7.05	123.82	120.30
1	M	264	ASP	N-CA-CB	-7.05	97.92	110.60
4	Y	206	ARG	NE-CZ-NH1	7.04	123.82	120.30
4	Z	79	TRP	CE2-CD2-CG	-7.04	101.67	107.30
1	A	104	TYR	CB-CG-CD2	7.03	125.22	121.00
1	P	769	ALA	CA-C-N	7.03	130.27	116.20
1	D	217	THR	N-CA-CB	7.03	123.66	110.30
1	J	264	ASP	N-CA-CB	-7.03	97.94	110.60
1	P	264	ASP	N-CA-CB	-7.03	97.95	110.60
4	5	206	ARG	NE-CZ-NH1	7.03	123.81	120.30
2	B	150	TYR	CB-CG-CD1	-7.03	116.78	121.00
4	3	47	MET	CA-CB-CG	-7.03	101.36	113.30
1	M	218	LEU	CB-CG-CD1	7.02	122.94	111.00
4	W	47	MET	CA-CB-CG	-7.02	101.37	113.30
4	5	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	6	47	MET	CA-CB-CG	-7.01	101.37	113.30
1	J	148	ARG	NE-CZ-NH2	-7.01	116.79	120.30
4	1	206	ARG	NE-CZ-NH1	7.01	123.81	120.30
4	8	47	MET	CA-CB-CG	-7.01	101.38	113.30
4	9	47	MET	CA-CB-CG	-7.01	101.38	113.30
4	X	47	MET	CA-CB-CG	-7.00	101.39	113.30
4	2	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	8	79	TRP	CE2-CD2-CG	-7.00	101.70	107.30
1	G	217	THR	N-CA-CB	7.00	123.60	110.30
2	N	127	ARG	NE-CZ-NH2	7.00	123.80	120.30
1	P	218	LEU	CB-CG-CD1	7.00	122.90	111.00
4	4	47	MET	CA-CB-CG	-7.00	101.40	113.30
4	V	47	MET	CA-CB-CG	-7.00	101.40	113.30
1	A	217	THR	N-CA-CB	7.00	123.59	110.30
4	V	206	ARG	NE-CZ-NH1	7.00	123.80	120.30
4	W	79	TRP	CE2-CD2-CG	-7.00	101.70	107.30
4	3	254	ARG	NE-CZ-NH2	-7.00	116.80	120.30
1	G	218	LEU	CB-CG-CD1	6.99	122.88	111.00
1	J	217	THR	N-CA-CB	6.99	123.58	110.30
4	7	47	MET	CA-CB-CG	-6.99	101.42	113.30
2	K	127	ARG	NE-CZ-NH2	6.99	123.79	120.30
4	Z	47	MET	CA-CB-CG	-6.99	101.42	113.30
4	1	47	MET	CA-CB-CG	-6.98	101.43	113.30
4	W	206	ARG	NE-CZ-NH1	6.98	123.79	120.30
1	D	264	ASP	N-CA-CB	-6.98	98.04	110.60
1	G	264	ASP	N-CA-CB	-6.98	98.04	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	47	MET	CA-CB-CG	-6.98	101.44	113.30
1	M	217	THR	N-CA-CB	6.98	123.55	110.30
1	J	218	LEU	CB-CG-CD1	6.97	122.86	111.00
2	Q	150	TYR	CB-CG-CD1	-6.97	116.82	121.00
4	7	79	TRP	CE2-CD2-CG	-6.97	101.72	107.30
1	A	264	ASP	N-CA-CB	-6.97	98.05	110.60
4	6	206	ARG	NE-CZ-NH1	6.97	123.79	120.30
4	6	79	TRP	CE2-CD2-CG	-6.96	101.73	107.30
4	V	79	TRP	CE2-CD2-CG	-6.96	101.73	107.30
4	5	79	TRP	CE2-CD2-CG	-6.96	101.74	107.30
1	D	148	ARG	NE-CZ-NH2	-6.95	116.82	120.30
4	X	340	TRP	CD1-CG-CD2	6.95	111.86	106.30
4	9	340	TRP	CD1-CG-CD2	6.95	111.86	106.30
1	A	218	LEU	CB-CG-CD1	6.95	122.81	111.00
4	V	254	ARG	NE-CZ-NH2	-6.95	116.83	120.30
4	W	340	TRP	CD1-CG-CD2	6.95	111.86	106.30
1	P	217	THR	N-CA-CB	6.94	123.49	110.30
4	3	340	TRP	CD1-CG-CD2	6.94	111.85	106.30
4	Z	340	TRP	CD1-CG-CD2	6.94	111.85	106.30
4	V	340	TRP	CD1-CG-CD2	6.93	111.84	106.30
4	8	340	TRP	CD1-CG-CD2	6.93	111.84	106.30
4	4	79	TRP	CE2-CD2-CG	-6.92	101.76	107.30
4	6	340	TRP	CD1-CG-CD2	6.92	111.84	106.30
4	2	79	TRP	CE2-CD2-CG	-6.92	101.77	107.30
4	2	340	TRP	CD1-CG-CD2	6.92	111.83	106.30
4	9	79	TRP	CE2-CD2-CG	-6.92	101.77	107.30
1	G	75	ASP	N-CA-CB	6.91	123.04	110.60
4	Y	79	TRP	CE2-CD2-CG	-6.90	101.78	107.30
4	3	79	TRP	CE2-CD2-CG	-6.90	101.78	107.30
1	D	728	ASN	CA-C-N	-6.90	102.03	117.20
4	1	79	TRP	CE2-CD2-CG	-6.90	101.78	107.30
4	Y	340	TRP	CD1-CG-CD2	6.89	111.82	106.30
4	1	340	TRP	CD1-CG-CD2	6.89	111.81	106.30
1	P	728	ASN	CA-C-N	-6.89	102.05	117.20
4	7	340	TRP	CD1-CG-CD2	6.88	111.81	106.30
1	M	728	ASN	CA-C-N	-6.88	102.08	117.20
1	A	75	ASP	N-CA-CB	6.87	122.97	110.60
1	J	450	ASP	CB-CG-OD2	6.87	124.48	118.30
1	M	148	ARG	NE-CZ-NH2	-6.87	116.87	120.30
1	J	75	ASP	N-CA-CB	6.86	122.95	110.60
1	G	148	ARG	NE-CZ-NH2	-6.86	116.87	120.30
1	M	75	ASP	N-CA-CB	6.86	122.94	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	4	340	TRP	CD1-CG-CD2	6.85	111.78	106.30
1	J	728	ASN	CA-C-N	-6.84	102.15	117.20
1	P	148	ARG	NE-CZ-NH2	-6.84	116.88	120.30
1	M	450	ASP	CB-CG-OD2	6.83	124.45	118.30
1	A	728	ASN	CA-C-N	-6.83	102.17	117.20
1	G	728	ASN	CA-C-N	-6.83	102.19	117.20
1	P	75	ASP	N-CA-CB	6.81	122.87	110.60
4	5	340	TRP	CD1-CG-CD2	6.81	111.75	106.30
1	A	450	ASP	CB-CG-OD2	6.81	124.43	118.30
1	G	450	ASP	CB-CG-OD2	6.81	124.43	118.30
1	D	450	ASP	CB-CG-OD2	6.80	124.42	118.30
2	Q	127	ARG	NE-CZ-NH2	6.78	123.69	120.30
1	P	555	TYR	CB-CG-CD2	-6.78	116.93	121.00
1	D	75	ASP	N-CA-CB	6.76	122.77	110.60
1	P	450	ASP	CB-CG-OD2	6.74	124.36	118.30
1	D	781	ASP	CB-CG-OD1	-6.74	112.24	118.30
1	M	756	THR	N-CA-CB	-6.71	97.55	110.30
1	G	756	THR	N-CA-CB	-6.71	97.56	110.30
1	P	75	ASP	CB-CG-OD2	6.70	124.33	118.30
1	M	555	TYR	CB-CG-CD2	-6.69	116.98	121.00
1	A	555	TYR	CB-CG-CD2	-6.69	116.99	121.00
1	M	75	ASP	CB-CG-OD2	6.68	124.31	118.30
1	G	781	ASP	CB-CG-OD1	-6.67	112.30	118.30
1	D	756	THR	N-CA-CB	-6.67	97.64	110.30
1	M	219	GLU	N-CA-C	-6.67	93.00	111.00
1	P	756	THR	N-CA-CB	-6.67	97.64	110.30
1	J	756	THR	N-CA-CB	-6.67	97.64	110.30
1	J	555	TYR	CB-CG-CD2	-6.66	117.00	121.00
1	A	75	ASP	CB-CG-OD2	6.66	124.29	118.30
1	J	219	GLU	N-CA-C	-6.65	93.05	111.00
1	G	219	GLU	N-CA-C	-6.64	93.07	111.00
1	P	219	GLU	N-CA-C	-6.63	93.10	111.00
1	J	75	ASP	CB-CG-OD2	6.63	124.27	118.30
1	A	756	THR	N-CA-CB	-6.62	97.71	110.30
1	A	343	PHE	CB-CG-CD1	6.62	125.44	120.80
4	8	169	TYR	CB-CG-CD2	-6.61	117.03	121.00
4	7	169	TYR	CB-CG-CD2	-6.60	117.04	121.00
1	D	75	ASP	CB-CG-OD2	6.60	124.24	118.30
4	3	169	TYR	CB-CG-CD2	-6.60	117.04	121.00
1	M	169	ASP	CB-CG-OD1	-6.59	112.37	118.30
4	V	196	ARG	NE-CZ-NH1	6.59	123.59	120.30
1	A	219	GLU	N-CA-C	-6.59	93.21	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	781	ASP	CB-CG-OD1	-6.59	112.37	118.30
1	D	219	GLU	N-CA-C	-6.58	93.22	111.00
1	D	332	MET	CG-SD-CE	-6.57	89.69	100.20
1	J	332	MET	CG-SD-CE	-6.57	89.69	100.20
1	G	555	TYR	CB-CG-CD2	-6.57	117.06	121.00
1	G	169	ASP	CB-CG-OD1	-6.56	112.39	118.30
4	8	196	ARG	NE-CZ-NH1	6.56	123.58	120.30
1	A	332	MET	CG-SD-CE	-6.55	89.72	100.20
1	A	781	ASP	CB-CG-OD1	-6.55	112.40	118.30
1	D	334	THR	CA-CB-CG2	-6.55	103.23	112.40
4	W	283	MET	CG-SD-CE	6.55	110.68	100.20
4	9	283	MET	CG-SD-CE	6.55	110.67	100.20
1	M	332	MET	CG-SD-CE	-6.54	89.73	100.20
1	P	332	MET	CG-SD-CE	-6.54	89.73	100.20
4	X	283	MET	CG-SD-CE	6.54	110.67	100.20
1	G	141	LEU	CB-CA-C	-6.54	97.78	110.20
1	G	332	MET	CG-SD-CE	-6.54	89.74	100.20
1	P	781	ASP	CB-CG-OD1	-6.54	112.42	118.30
4	W	196	ARG	NE-CZ-NH1	6.54	123.57	120.30
4	V	169	TYR	CB-CG-CD2	-6.54	117.08	121.00
4	V	283	MET	CG-SD-CE	6.54	110.66	100.20
1	A	169	ASP	CB-CG-OD1	-6.53	112.42	118.30
1	J	169	ASP	CB-CG-OD1	-6.53	112.42	118.30
4	7	283	MET	CG-SD-CE	6.53	110.65	100.20
4	Y	283	MET	CG-SD-CE	6.53	110.65	100.20
4	1	283	MET	CG-SD-CE	6.53	110.64	100.20
4	5	283	MET	CG-SD-CE	6.52	110.64	100.20
4	6	196	ARG	NE-CZ-NH1	6.52	123.56	120.30
1	G	334	THR	CA-CB-CG2	-6.52	103.27	112.40
4	9	159	VAL	CB-CA-C	-6.52	99.02	111.40
4	3	283	MET	CG-SD-CE	6.52	110.63	100.20
4	Z	283	MET	CG-SD-CE	6.52	110.63	100.20
4	2	159	VAL	CB-CA-C	-6.51	99.02	111.40
4	1	169	TYR	CB-CG-CD2	-6.51	117.09	121.00
1	D	141	LEU	CB-CA-C	-6.51	97.83	110.20
1	P	141	LEU	CB-CA-C	-6.51	97.83	110.20
4	5	196	ARG	NE-CZ-NH1	6.51	123.56	120.30
4	6	283	MET	CG-SD-CE	6.51	110.62	100.20
1	M	141	LEU	CB-CA-C	-6.50	97.84	110.20
4	8	283	MET	CG-SD-CE	6.50	110.61	100.20
1	P	169	ASP	CB-CG-OD1	-6.50	112.45	118.30
1	P	589	ASP	CB-CG-OD1	-6.50	112.45	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	159	VAL	CB-CA-C	-6.50	99.05	111.40
1	M	334	THR	CA-CB-CG2	-6.50	103.30	112.40
4	2	283	MET	CG-SD-CE	6.50	110.59	100.20
4	X	159	VAL	CB-CA-C	-6.50	99.06	111.40
1	A	141	LEU	CB-CA-C	-6.50	97.86	110.20
1	J	141	LEU	CB-CA-C	-6.50	97.86	110.20
4	5	169	TYR	CB-CG-CD2	-6.50	117.10	121.00
4	Z	169	TYR	CB-CG-CD2	-6.50	117.10	121.00
4	Y	196	ARG	NE-CZ-NH1	6.49	123.55	120.30
4	W	159	VAL	CB-CA-C	-6.49	99.07	111.40
4	9	169	TYR	CB-CG-CD2	-6.49	117.11	121.00
1	P	334	THR	CA-CB-CG2	-6.49	103.32	112.40
4	3	196	ARG	NE-CZ-NH1	6.49	123.54	120.30
4	4	283	MET	CG-SD-CE	6.49	110.58	100.20
1	D	343	PHE	CB-CG-CD1	6.48	125.34	120.80
1	J	129	TYR	CB-CG-CD2	-6.48	117.11	121.00
4	5	159	VAL	CB-CA-C	-6.48	99.09	111.40
4	3	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	7	196	ARG	NE-CZ-NH1	6.48	123.54	120.30
4	V	159	VAL	CB-CA-C	-6.48	99.09	111.40
4	2	169	TYR	CB-CG-CD2	-6.47	117.11	121.00
4	4	159	VAL	CB-CA-C	-6.47	99.10	111.40
2	H	141	PRO	N-CD-CG	-6.47	93.49	103.20
4	6	159	VAL	CB-CA-C	-6.47	99.10	111.40
1	J	334	THR	CA-CB-CG2	-6.47	103.35	112.40
4	Z	159	VAL	CB-CA-C	-6.46	99.12	111.40
4	6	169	TYR	CB-CG-CD2	-6.46	117.12	121.00
1	A	334	THR	CA-CB-CG2	-6.46	103.36	112.40
4	8	159	VAL	CB-CA-C	-6.46	99.13	111.40
1	M	129	TYR	CB-CG-CD2	-6.46	117.13	121.00
4	1	159	VAL	CB-CA-C	-6.46	99.13	111.40
4	4	196	ARG	NE-CZ-NH1	6.46	123.53	120.30
4	X	196	ARG	NE-CZ-NH1	6.46	123.53	120.30
1	D	169	ASP	CB-CG-OD1	-6.45	112.50	118.30
4	Y	169	TYR	CB-CG-CD2	-6.45	117.13	121.00
4	W	169	TYR	CB-CG-CD2	-6.45	117.13	121.00
1	D	555	TYR	CB-CG-CD2	-6.44	117.14	121.00
2	Q	141	PRO	N-CD-CG	-6.44	93.54	103.20
4	5	34	ILE	CA-CB-CG2	-6.44	98.03	110.90
4	4	34	ILE	CA-CB-CG2	-6.43	98.03	110.90
4	7	34	ILE	CA-CB-CG2	-6.43	98.03	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	X	169	TYR	CB-CG-CD2	-6.43	117.14	121.00
2	E	141	PRO	N-CD-CG	-6.43	93.55	103.20
1	G	75	ASP	CB-CG-OD2	6.43	124.09	118.30
4	W	34	ILE	CA-CB-CG2	-6.43	98.04	110.90
1	A	589	ASP	CB-CG-OD1	-6.43	112.52	118.30
1	M	781	ASP	CB-CG-OD1	-6.43	112.52	118.30
4	Y	34	ILE	CA-CB-CG2	-6.43	98.05	110.90
4	1	196	ARG	NE-CZ-NH1	6.42	123.51	120.30
4	6	34	ILE	CA-CB-CG2	-6.42	98.06	110.90
1	J	589	ASP	CB-CG-OD1	-6.42	112.52	118.30
4	X	34	ILE	CA-CB-CG2	-6.42	98.06	110.90
4	1	34	ILE	CA-CB-CG2	-6.42	98.07	110.90
4	Z	34	ILE	CA-CB-CG2	-6.41	98.08	110.90
4	V	34	ILE	CA-CB-CG2	-6.41	98.09	110.90
1	M	589	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	G	589	ASP	CB-CG-OD1	-6.40	112.54	118.30
4	4	169	TYR	CB-CG-CD2	-6.40	117.16	121.00
4	8	34	ILE	CA-CB-CG2	-6.40	98.11	110.90
4	9	196	ARG	NE-CZ-NH1	6.39	123.49	120.30
4	2	34	ILE	CA-CB-CG2	-6.38	98.13	110.90
4	3	34	ILE	CA-CB-CG2	-6.38	98.14	110.90
4	9	34	ILE	CA-CB-CG2	-6.38	98.14	110.90
2	N	141	PRO	N-CD-CG	-6.38	93.63	103.20
1	M	327	ASP	CB-CG-OD2	6.37	124.04	118.30
1	P	327	ASP	CB-CG-OD2	6.37	124.03	118.30
1	G	343	PHE	CB-CG-CD1	6.37	125.26	120.80
1	A	341	LEU	CB-CA-C	6.37	122.30	110.20
1	J	327	ASP	CB-CG-OD2	6.36	124.03	118.30
1	D	129	TYR	CB-CG-CD2	-6.36	117.19	121.00
4	2	196	ARG	NE-CZ-NH1	6.35	123.48	120.30
2	K	141	PRO	N-CD-CG	-6.35	93.68	103.20
1	G	341	LEU	CB-CA-C	6.34	122.25	110.20
4	2	217	CYS	CA-CB-SG	-6.34	102.59	114.00
1	G	578	HIS	N-CA-CB	6.33	122.00	110.60
1	J	578	HIS	N-CA-CB	6.33	122.00	110.60
2	B	141	PRO	N-CD-CG	-6.33	93.70	103.20
1	G	129	TYR	CB-CG-CD2	-6.33	117.20	121.00
1	M	341	LEU	CB-CA-C	6.33	122.22	110.20
1	P	341	LEU	CB-CA-C	6.33	122.22	110.20
4	4	217	CYS	CA-CB-SG	-6.32	102.62	114.00
1	J	341	LEU	CB-CA-C	6.32	122.21	110.20
1	G	590	TYR	CB-CG-CD2	6.32	124.79	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	217	CYS	CA-CB-SG	-6.31	102.64	114.00
4	Z	196	ARG	NE-CZ-NH1	6.31	123.45	120.30
1	D	589	ASP	CB-CG-OD1	-6.30	112.62	118.30
4	3	217	CYS	CA-CB-SG	-6.30	102.65	114.00
4	8	217	CYS	CA-CB-SG	-6.30	102.65	114.00
4	5	217	CYS	CA-CB-SG	-6.30	102.66	114.00
1	P	578	HIS	N-CA-CB	6.30	121.94	110.60
4	X	217	CYS	CA-CB-SG	-6.30	102.67	114.00
1	M	578	HIS	N-CA-CB	6.29	121.92	110.60
4	9	217	CYS	CA-CB-SG	-6.29	102.68	114.00
1	P	343	PHE	CB-CG-CD1	6.29	125.20	120.80
4	Z	217	CYS	CA-CB-SG	-6.28	102.69	114.00
1	A	578	HIS	N-CA-CB	6.28	121.91	110.60
4	Y	217	CYS	CA-CB-SG	-6.28	102.70	114.00
1	D	341	LEU	CB-CA-C	6.28	122.13	110.20
1	J	343	PHE	CB-CG-CD1	6.28	125.19	120.80
1	M	343	PHE	CB-CG-CD1	6.28	125.19	120.80
1	D	578	HIS	N-CA-CB	6.27	121.89	110.60
4	V	217	CYS	CA-CB-SG	-6.27	102.71	114.00
1	A	129	TYR	CB-CG-CD2	-6.27	117.24	121.00
4	6	217	CYS	CA-CB-SG	-6.27	102.72	114.00
4	7	217	CYS	CA-CB-SG	-6.26	102.73	114.00
2	Q	129	THR	CB-CA-C	-6.26	94.70	111.60
2	N	129	THR	CB-CA-C	-6.25	94.72	111.60
1	P	129	TYR	CB-CG-CD2	-6.25	117.25	121.00
4	W	217	CYS	CA-CB-SG	-6.25	102.76	114.00
1	P	779	ARG	NE-CZ-NH1	6.24	123.42	120.30
2	K	129	THR	CB-CA-C	-6.23	94.78	111.60
1	M	104	TYR	CB-CG-CD1	-6.22	117.27	121.00
1	M	779	ARG	NE-CZ-NH1	6.22	123.41	120.30
1	A	780	ASP	CB-CG-OD2	6.22	123.89	118.30
1	A	327	ASP	CB-CG-OD2	6.21	123.89	118.30
1	D	327	ASP	CB-CG-OD2	6.21	123.89	118.30
2	Q	141	PRO	N-CA-CB	-6.21	95.77	102.60
2	E	129	THR	CB-CA-C	-6.20	94.85	111.60
1	D	590	TYR	CB-CG-CD2	6.20	124.72	121.00
1	M	760	PHE	CB-CG-CD2	-6.20	116.46	120.80
1	J	810	ARG	NE-CZ-NH1	6.19	123.39	120.30
1	J	104	TYR	CB-CG-CD1	-6.19	117.29	121.00
1	A	463	ASP	CB-CG-OD2	-6.18	112.73	118.30
2	B	129	THR	CB-CA-C	-6.18	94.91	111.60
1	A	214	MET	CG-SD-CE	6.18	110.09	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	327	ASP	CB-CG-OD2	6.18	123.86	118.30
1	M	752	ASP	CB-CG-OD2	6.18	123.86	118.30
1	D	810	ARG	NE-CZ-NH1	6.17	123.39	120.30
1	P	698	ASN	CB-CA-C	-6.17	98.05	110.40
2	H	129	THR	CB-CA-C	-6.17	94.94	111.60
1	M	810	ARG	NE-CZ-NH1	6.17	123.39	120.30
1	M	214	MET	CG-SD-CE	6.17	110.07	100.20
1	A	698	ASN	CB-CA-C	-6.16	98.07	110.40
1	P	760	PHE	CB-CG-CD2	-6.16	116.49	120.80
1	D	760	PHE	CB-CG-CD2	-6.16	116.49	120.80
1	J	463	ASP	CB-CG-OD2	-6.16	112.76	118.30
1	D	214	MET	CG-SD-CE	6.15	110.04	100.20
1	J	779	ARG	NE-CZ-NH1	6.15	123.37	120.30
1	J	698	ASN	CB-CA-C	-6.15	98.11	110.40
1	G	463	ASP	CB-CG-OD2	-6.14	112.77	118.30
1	M	698	ASN	CB-CA-C	-6.14	98.12	110.40
1	P	590	TYR	CB-CG-CD2	6.14	124.69	121.00
1	J	214	MET	CG-SD-CE	6.14	110.03	100.20
1	J	450	ASP	CB-CG-OD1	-6.14	112.77	118.30
1	J	760	PHE	CB-CG-CD2	-6.14	116.50	120.80
2	N	141	PRO	N-CA-CB	-6.14	95.85	102.60
1	A	590	TYR	CB-CG-CD2	6.14	124.68	121.00
1	J	752	ASP	CB-CG-OD2	6.14	123.82	118.30
2	K	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	6	259	GLU	CA-CB-CG	6.13	126.89	113.40
4	9	259	GLU	CA-CB-CG	6.13	126.89	113.40
1	P	104	TYR	CB-CG-CD1	-6.13	117.32	121.00
4	V	259	GLU	CA-CB-CG	6.13	126.89	113.40
1	G	810	ARG	NE-CZ-NH1	6.13	123.36	120.30
4	Z	259	GLU	CA-CB-CG	6.13	126.88	113.40
1	G	214	MET	CG-SD-CE	6.13	110.00	100.20
1	P	752	ASP	CB-CG-OD2	6.12	123.81	118.30
1	G	698	ASN	CB-CA-C	-6.12	98.16	110.40
1	P	214	MET	CG-SD-CE	6.12	110.00	100.20
4	7	259	GLU	CA-CB-CG	6.12	126.87	113.40
1	D	104	TYR	CB-CG-CD1	-6.12	117.33	121.00
4	3	259	GLU	CA-CB-CG	6.12	126.87	113.40
2	H	141	PRO	N-CA-CB	-6.12	95.87	102.60
4	8	259	GLU	CA-CB-CG	6.12	126.86	113.40
3	F	58	MET	CG-SD-CE	6.12	109.99	100.20
1	P	463	ASP	CB-CG-OD2	-6.12	112.79	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	779	ARG	NE-CZ-NH1	6.12	123.36	120.30
4	Y	259	GLU	CA-CB-CG	6.12	126.86	113.40
1	G	346	ASP	CB-CG-OD1	6.12	123.80	118.30
4	4	259	GLU	CA-CB-CG	6.12	126.86	113.40
4	W	259	GLU	CA-CB-CG	6.12	126.85	113.40
1	G	760	PHE	CB-CG-CD2	-6.11	116.52	120.80
4	2	259	GLU	CA-CB-CG	6.11	126.84	113.40
3	O	58	MET	CG-SD-CE	6.11	109.97	100.20
3	R	58	MET	CG-SD-CE	6.11	109.97	100.20
1	M	590	TYR	CB-CG-CD2	6.10	124.66	121.00
4	5	259	GLU	CA-CB-CG	6.10	126.83	113.40
1	J	590	TYR	CB-CG-CD2	6.10	124.66	121.00
4	X	259	GLU	CA-CB-CG	6.10	126.82	113.40
1	D	698	ASN	CB-CA-C	-6.10	98.20	110.40
3	L	58	MET	CG-SD-CE	6.10	109.96	100.20
2	H	129	THR	CA-CB-CG2	6.09	120.93	112.40
1	M	682	THR	CA-CB-CG2	-6.09	103.87	112.40
2	E	141	PRO	N-CA-CB	-6.09	95.90	102.60
1	P	682	THR	CA-CB-CG2	-6.08	103.88	112.40
1	G	625	THR	CA-CB-OG1	6.08	121.77	109.00
1	P	450	ASP	CB-CG-OD1	-6.08	112.83	118.30
1	P	810	ARG	NE-CZ-NH1	6.08	123.34	120.30
1	G	104	TYR	CB-CG-CD1	-6.08	117.35	121.00
1	M	665	ARG	NE-CZ-NH2	-6.08	117.26	120.30
1	A	665	ARG	NE-CZ-NH2	-6.07	117.27	120.30
1	A	760	PHE	CB-CG-CD2	-6.07	116.55	120.80
1	D	463	ASP	CB-CG-OD2	-6.07	112.84	118.30
2	E	129	THR	CA-CB-CG2	6.07	120.89	112.40
1	D	378	ASP	CB-CG-OD1	-6.07	112.84	118.30
4	X	16	LEU	CA-CB-CG	6.06	129.24	115.30
2	B	141	PRO	N-CA-CB	-6.06	95.94	102.60
3	C	58	MET	CG-SD-CE	6.06	109.89	100.20
1	D	346	ASP	CB-CG-OD1	6.06	123.75	118.30
2	B	129	THR	CA-CB-CG2	6.05	120.88	112.40
1	G	665	ARG	NE-CZ-NH2	-6.05	117.27	120.30
1	J	192	VAL	CA-CB-CG1	-6.05	101.83	110.90
1	J	682	THR	CA-CB-CG2	-6.05	103.93	112.40
1	A	779	ARG	NE-CZ-NH1	6.05	123.32	120.30
1	J	665	ARG	NE-CZ-NH2	-6.05	117.28	120.30
1	M	463	ASP	CB-CG-OD2	-6.05	112.86	118.30
4	4	349	LEU	CA-C-N	-6.05	103.90	117.20
1	M	625	THR	CA-CB-OG1	6.04	121.69	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	6	349	LEU	CA-C-N	-6.04	103.90	117.20
4	V	349	LEU	CA-C-N	-6.04	103.91	117.20
4	X	349	LEU	CA-C-N	-6.04	103.91	117.20
4	W	116	ARG	NE-CZ-NH1	6.04	123.32	120.30
4	Z	16	LEU	CA-CB-CG	6.04	129.20	115.30
1	A	682	THR	CA-CB-CG2	-6.04	103.94	112.40
4	5	349	LEU	CA-C-N	-6.04	103.91	117.20
4	9	16	LEU	CA-CB-CG	6.04	129.19	115.30
1	G	682	THR	CA-CB-CG2	-6.04	103.95	112.40
3	I	58	MET	CG-SD-CE	6.04	109.86	100.20
4	3	16	LEU	CA-CB-CG	6.03	129.18	115.30
4	5	16	LEU	CA-CB-CG	6.03	129.18	115.30
4	4	16	LEU	CA-CB-CG	6.03	129.17	115.30
4	7	349	LEU	CA-C-N	-6.03	103.93	117.20
4	8	16	LEU	CA-CB-CG	6.03	129.17	115.30
4	1	16	LEU	CA-CB-CG	6.03	129.16	115.30
4	5	335	ARG	NE-CZ-NH2	-6.03	117.29	120.30
4	7	16	LEU	CA-CB-CG	6.03	129.16	115.30
4	W	16	LEU	CA-CB-CG	6.03	129.16	115.30
1	D	665	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	P	665	ARG	NE-CZ-NH2	-6.03	117.29	120.30
4	1	349	LEU	CA-C-N	-6.03	103.94	117.20
4	Y	349	LEU	CA-C-N	-6.03	103.94	117.20
1	D	625	THR	CA-CB-OG1	6.02	121.65	109.00
1	J	447	GLN	N-CA-CB	6.02	121.44	110.60
4	2	16	LEU	CA-CB-CG	6.02	129.15	115.30
4	V	16	LEU	CA-CB-CG	6.02	129.15	115.30
1	A	447	GLN	N-CA-CB	6.02	121.44	110.60
1	M	450	ASP	CB-CG-OD1	-6.02	112.88	118.30
4	Y	16	LEU	CA-CB-CG	6.02	129.15	115.30
1	D	192	VAL	CA-CB-CG1	-6.02	101.87	110.90
4	2	349	LEU	CA-C-N	-6.02	103.96	117.20
1	P	625	THR	CA-CB-OG1	6.02	121.64	109.00
4	Z	349	LEU	CA-C-N	-6.02	103.96	117.20
4	3	349	LEU	CA-C-N	-6.01	103.97	117.20
4	6	16	LEU	CA-CB-CG	6.01	129.13	115.30
4	9	349	LEU	CA-C-N	-6.01	103.97	117.20
4	W	349	LEU	CA-C-N	-6.01	103.97	117.20
1	M	447	GLN	N-CA-CB	6.01	121.42	110.60
2	K	129	THR	CA-CB-CG2	6.00	120.81	112.40
1	J	625	THR	CA-CB-OG1	6.00	121.61	109.00
1	P	447	GLN	N-CA-CB	6.00	121.41	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	192	VAL	CA-CB-CG1	-6.00	101.90	110.90
4	8	349	LEU	CA-C-N	-6.00	104.01	117.20
1	D	682	THR	CA-CB-CG2	-5.99	104.01	112.40
1	A	192	VAL	CA-CB-CG1	-5.99	101.91	110.90
1	G	192	VAL	CA-CB-CG1	-5.99	101.91	110.90
1	A	625	THR	CA-CB-OG1	5.99	121.58	109.00
2	Q	129	THR	CA-CB-CG2	5.99	120.78	112.40
1	D	447	GLN	N-CA-CB	5.98	121.37	110.60
4	2	116	ARG	NE-CZ-NH1	5.98	123.29	120.30
1	G	447	GLN	N-CA-CB	5.98	121.36	110.60
1	M	192	VAL	CA-CB-CG1	-5.97	101.94	110.90
4	3	335	ARG	NE-CZ-NH2	-5.97	117.32	120.30
1	A	810	ARG	NE-CZ-NH1	5.97	123.28	120.30
1	D	450	ASP	CB-CG-OD1	-5.97	112.93	118.30
4	Y	116	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	M	780	ASP	CB-CG-OD2	5.96	123.67	118.30
4	7	116	ARG	NE-CZ-NH1	5.96	123.28	120.30
4	V	116	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	A	815	CYS	CA-CB-SG	-5.96	103.28	114.00
1	A	104	TYR	CB-CG-CD1	-5.95	117.43	121.00
1	M	378	ASP	CB-CG-OD1	-5.95	112.94	118.30
1	P	378	ASP	CB-CG-OD1	-5.95	112.95	118.30
4	Z	116	ARG	NE-CZ-NH1	5.95	123.28	120.30
4	1	79	TRP	CG-CD2-CE3	5.94	139.25	133.90
1	D	339	ASP	CB-CG-OD2	5.94	123.64	118.30
1	D	809	ARG	NE-CZ-NH2	-5.94	117.33	120.30
4	8	335	ARG	NE-CZ-NH2	-5.94	117.33	120.30
4	8	79	TRP	CG-CD2-CE3	5.93	139.24	133.90
4	9	116	ARG	NE-CZ-NH1	5.93	123.27	120.30
4	9	335	ARG	NE-CZ-NH2	-5.93	117.33	120.30
4	W	79	TRP	CG-CD2-CE3	5.93	139.24	133.90
1	D	754	ASP	CB-CG-OD2	-5.93	112.97	118.30
1	D	780	ASP	CB-CG-OD2	5.93	123.63	118.30
1	M	471	ASP	CB-CG-OD1	-5.93	112.97	118.30
1	A	378	ASP	CB-CG-OD1	-5.92	112.97	118.30
4	3	79	TRP	CG-CD2-CE3	5.92	139.23	133.90
4	Y	335	ARG	NE-CZ-NH2	-5.92	117.34	120.30
1	A	754	ASP	CB-CG-OD2	-5.92	112.97	118.30
4	5	254	ARG	NE-CZ-NH1	5.92	123.26	120.30
1	G	752	ASP	CB-CG-OD2	5.92	123.63	118.30
1	J	378	ASP	CB-CG-OD1	-5.92	112.97	118.30
2	N	129	THR	CA-CB-CG2	5.91	120.68	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	335	ARG	NE-CZ-NH2	-5.91	117.34	120.30
1	G	378	ASP	CB-CG-OD1	-5.91	112.98	118.30
1	J	754	ASP	CB-CG-OD2	-5.91	112.98	118.30
4	Y	79	TRP	CG-CD2-CE3	5.91	139.22	133.90
1	G	738	MET	CG-SD-CE	5.90	109.64	100.20
4	9	254	ARG	NE-CZ-NH1	5.90	123.25	120.30
1	D	738	MET	CG-SD-CE	5.90	109.64	100.20
1	G	809	ARG	NE-CZ-NH2	-5.90	117.35	120.30
1	A	450	ASP	CB-CG-OD1	-5.90	112.99	118.30
4	9	79	TRP	CG-CD2-CE3	5.90	139.21	133.90
1	G	339	ASP	CB-CG-OD2	5.90	123.61	118.30
1	D	556	ASP	CB-CG-OD1	-5.89	113.00	118.30
4	4	200	PHE	CA-C-N	-5.89	104.24	117.20
4	1	200	PHE	CA-C-N	-5.89	104.24	117.20
1	G	780	ASP	CB-CG-OD2	5.89	123.60	118.30
4	X	79	TRP	CG-CD2-CE3	5.89	139.20	133.90
1	G	450	ASP	CB-CG-OD1	-5.88	113.00	118.30
1	J	738	MET	CG-SD-CE	5.88	109.61	100.20
1	J	339	ASP	CB-CG-OD2	5.88	123.59	118.30
1	M	339	ASP	CB-CG-OD2	5.88	123.59	118.30
1	P	738	MET	CG-SD-CE	5.88	109.60	100.20
4	2	200	PHE	CA-C-N	-5.88	104.27	117.20
4	V	200	PHE	CA-C-N	-5.88	104.27	117.20
1	A	346	ASP	CB-CG-OD1	5.88	123.59	118.30
4	6	79	TRP	CG-CD2-CE3	5.88	139.19	133.90
1	P	471	ASP	CB-CG-OD1	-5.87	113.01	118.30
4	W	335	ARG	NE-CZ-NH2	-5.87	117.36	120.30
1	J	346	ASP	CB-CG-OD1	5.87	123.58	118.30
4	4	116	ARG	NE-CZ-NH1	5.87	123.23	120.30
1	J	780	ASP	CB-CG-OD2	5.87	123.58	118.30
1	M	346	ASP	CB-CG-OD1	5.87	123.58	118.30
1	M	738	MET	CG-SD-CE	5.87	109.59	100.20
1	A	4	ASP	CB-CG-OD2	5.87	123.58	118.30
1	A	738	MET	CG-SD-CE	5.87	109.58	100.20
4	2	79	TRP	CG-CD2-CE3	5.87	139.18	133.90
4	3	116	ARG	NE-CZ-NH1	5.86	123.23	120.30
4	7	200	PHE	CA-C-N	-5.86	104.30	117.20
1	P	4	ASP	CB-CG-OD2	5.86	123.57	118.30
1	M	754	ASP	CB-CG-OD2	-5.86	113.03	118.30
4	8	200	PHE	CA-C-N	-5.86	104.31	117.20
4	9	200	PHE	CA-C-N	-5.86	104.31	117.20
1	D	471	ASP	CB-CG-OD1	-5.86	113.03	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	754	ASP	CB-CG-OD2	-5.85	113.03	118.30
4	X	200	PHE	CA-C-N	-5.85	104.33	117.20
1	P	780	ASP	CB-CG-OD2	5.85	123.56	118.30
4	6	200	PHE	CA-C-N	-5.85	104.33	117.20
4	W	200	PHE	CA-C-N	-5.85	104.33	117.20
4	X	335	ARG	NE-CZ-NH2	-5.85	117.38	120.30
4	Y	200	PHE	CA-C-N	-5.85	104.34	117.20
4	Z	79	TRP	CG-CD2-CE3	5.85	139.16	133.90
1	P	815	CYS	CA-CB-SG	-5.84	103.48	114.00
4	3	200	PHE	CA-C-N	-5.84	104.34	117.20
4	5	79	TRP	CG-CD2-CE3	5.84	139.16	133.90
4	5	200	PHE	CA-C-N	-5.84	104.35	117.20
4	7	335	ARG	NE-CZ-NH2	-5.84	117.38	120.30
1	G	754	ASP	CB-CG-OD2	-5.84	113.05	118.30
4	Z	200	PHE	CA-C-N	-5.84	104.36	117.20
4	1	335	ARG	NE-CZ-NH2	-5.83	117.38	120.30
4	V	79	TRP	CG-CD2-CE3	5.83	139.15	133.90
1	D	815	CYS	CA-CB-SG	-5.83	103.51	114.00
4	1	116	ARG	NE-CZ-NH1	5.83	123.22	120.30
4	6	335	ARG	NE-CZ-NH2	-5.83	117.39	120.30
4	4	79	TRP	CG-CD2-CE3	5.82	139.14	133.90
4	V	95	ARG	CA-CB-CG	5.82	126.20	113.40
4	X	95	ARG	CA-CB-CG	5.82	126.20	113.40
1	J	815	CYS	CA-CB-SG	-5.82	103.53	114.00
4	7	79	TRP	CG-CD2-CE3	5.81	139.13	133.90
1	J	471	ASP	CB-CG-OD1	-5.81	113.07	118.30
4	X	254	ARG	NE-CZ-NH1	5.81	123.20	120.30
4	V	335	ARG	NE-CZ-NH2	-5.81	117.40	120.30
1	J	556	ASP	CB-CG-OD1	-5.81	113.07	118.30
1	M	815	CYS	CA-CB-SG	-5.80	103.55	114.00
4	6	116	ARG	NE-CZ-NH1	5.80	123.20	120.30
4	7	95	ARG	CA-CB-CG	5.80	126.17	113.40
4	W	95	ARG	CA-CB-CG	5.80	126.16	113.40
1	D	779	ARG	NE-CZ-NH1	5.80	123.20	120.30
4	3	95	ARG	CA-CB-CG	5.79	126.14	113.40
1	G	471	ASP	CB-CG-OD1	-5.79	113.09	118.30
4	1	95	ARG	CA-CB-CG	5.79	126.14	113.40
4	5	95	ARG	CA-CB-CG	5.79	126.14	113.40
4	X	116	ARG	NE-CZ-NH1	5.79	123.19	120.30
1	G	556	ASP	CB-CG-OD1	-5.78	113.10	118.30
4	6	95	ARG	CA-CB-CG	5.78	126.12	113.40
1	P	339	ASP	CB-CG-OD2	5.78	123.50	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	8	95	ARG	CA-CB-CG	5.78	126.12	113.40
4	Y	95	ARG	CA-CB-CG	5.78	126.11	113.40
1	A	556	ASP	CB-CG-OD1	-5.78	113.10	118.30
4	9	95	ARG	CA-CB-CG	5.78	126.11	113.40
1	D	752	ASP	CB-CG-OD2	5.78	123.50	118.30
1	G	780	ASP	CB-CG-OD1	-5.78	113.10	118.30
4	2	95	ARG	CA-CB-CG	5.77	126.10	113.40
2	H	149	ASP	N-CA-CB	5.77	120.98	110.60
1	P	346	ASP	CB-CG-OD1	5.77	123.49	118.30
1	M	165	PHE	N-CA-CB	-5.77	100.22	110.60
4	Z	95	ARG	CA-CB-CG	5.77	126.09	113.40
4	8	254	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	A	752	ASP	CB-CG-OD2	5.76	123.49	118.30
1	P	556	ASP	CB-CG-OD1	-5.76	113.11	118.30
1	D	781	ASP	CB-CG-OD2	5.76	123.48	118.30
1	A	339	ASP	CB-CG-OD2	5.76	123.48	118.30
4	Z	254	ARG	NE-CZ-NH1	5.76	123.18	120.30
1	D	4	ASP	CB-CG-OD2	5.75	123.48	118.30
4	1	254	ARG	NE-CZ-NH1	5.75	123.18	120.30
4	2	254	ARG	NE-CZ-NH1	5.75	123.18	120.30
1	A	780	ASP	CB-CG-OD1	-5.75	113.13	118.30
1	P	165	PHE	N-CA-CB	-5.75	100.26	110.60
1	G	4	ASP	CB-CG-OD2	5.75	123.47	118.30
4	6	254	ARG	NE-CZ-NH1	5.74	123.17	120.30
4	4	335	ARG	NE-CZ-NH2	-5.74	117.43	120.30
1	M	4	ASP	CB-CG-OD2	5.74	123.46	118.30
4	W	254	ARG	NE-CZ-NH1	5.74	123.17	120.30
4	4	95	ARG	CA-CB-CG	5.73	126.02	113.40
4	V	335	ARG	CA-CB-CG	5.73	126.00	113.40
1	A	471	ASP	CB-CG-OD1	-5.72	113.15	118.30
1	M	780	ASP	CB-CG-OD1	-5.72	113.15	118.30
1	M	556	ASP	CB-CG-OD1	-5.72	113.15	118.30
4	5	116	ARG	NE-CZ-NH1	5.72	123.16	120.30
4	X	335	ARG	CA-CB-CG	5.72	125.98	113.40
1	A	165	PHE	N-CA-CB	-5.71	100.31	110.60
1	A	809	ARG	NE-CZ-NH2	-5.71	117.44	120.30
1	G	165	PHE	N-CA-CB	-5.71	100.31	110.60
4	W	335	ARG	CA-CB-CG	5.71	125.97	113.40
4	2	335	ARG	CA-CB-CG	5.71	125.97	113.40
4	8	335	ARG	CA-CB-CG	5.71	125.96	113.40
1	D	352	TYR	N-CA-CB	5.71	120.87	110.60
4	1	335	ARG	CA-CB-CG	5.71	125.95	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	165	PHE	N-CA-CB	-5.70	100.33	110.60
1	G	352	TYR	N-CA-CB	5.70	120.86	110.60
4	4	335	ARG	CA-CB-CG	5.70	125.94	113.40
4	5	335	ARG	CA-CB-CG	5.70	125.94	113.40
1	G	815	CYS	CA-CB-SG	-5.70	103.74	114.00
1	J	165	PHE	N-CA-CB	-5.70	100.34	110.60
1	D	780	ASP	CB-CG-OD1	-5.70	113.17	118.30
2	B	149	ASP	N-CA-CB	5.70	120.85	110.60
4	Y	335	ARG	CA-CB-CG	5.69	125.92	113.40
4	Z	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	7	335	ARG	CA-CB-CG	5.69	125.92	113.40
2	K	149	ASP	N-CA-CB	5.69	120.83	110.60
4	9	335	ARG	CA-CB-CG	5.68	125.91	113.40
4	3	279	TYR	CB-CG-CD2	-5.68	117.59	121.00
4	2	335	ARG	NE-CZ-NH2	-5.68	117.46	120.30
4	3	335	ARG	CA-CB-CG	5.68	125.89	113.40
4	Y	254	ARG	NE-CZ-NH1	5.68	123.14	120.30
2	E	149	ASP	N-CA-CB	5.67	120.81	110.60
2	Q	149	ASP	N-CA-CB	5.67	120.81	110.60
2	N	149	ASP	N-CA-CB	5.67	120.80	110.60
1	J	809	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	M	693	HIS	CA-CB-CG	-5.66	103.97	113.60
4	3	254	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	G	781	ASP	CB-CG-OD2	5.66	123.39	118.30
4	V	254	ARG	NE-CZ-NH1	5.66	123.13	120.30
1	J	4	ASP	CB-CG-OD2	5.65	123.39	118.30
1	P	809	ARG	NE-CZ-NH2	-5.65	117.48	120.30
1	G	693	HIS	CA-CB-CG	-5.64	104.01	113.60
4	8	116	ARG	NE-CZ-NH1	5.64	123.12	120.30
1	P	780	ASP	CB-CG-OD1	-5.64	113.23	118.30
1	A	352	TYR	N-CA-CB	5.63	120.74	110.60
1	J	693	HIS	CA-CB-CG	-5.63	104.03	113.60
4	1	294	TYR	CB-CG-CD2	-5.63	117.62	121.00
1	P	693	HIS	CA-CB-CG	-5.63	104.04	113.60
4	7	356	TRP	CG-CD2-CE3	5.62	138.96	133.90
4	9	113	LYS	CA-CB-CG	5.62	125.76	113.40
1	M	809	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	A	781	ASP	CB-CG-OD2	5.62	123.35	118.30
1	M	352	TYR	N-CA-CB	5.61	120.70	110.60
4	4	113	LYS	CA-CB-CG	5.61	125.75	113.40
4	5	294	TYR	CB-CG-CD2	-5.61	117.63	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	352	TYR	N-CA-CB	5.61	120.70	110.60
4	Y	113	LYS	CA-CB-CG	5.61	125.74	113.40
1	J	33	ASP	CB-CG-OD2	5.61	123.35	118.30
1	P	352	TYR	N-CA-CB	5.61	120.69	110.60
4	Y	356	TRP	CG-CD2-CE3	5.61	138.95	133.90
4	2	113	LYS	CA-CB-CG	5.60	125.72	113.40
4	7	254	ARG	NE-CZ-NH1	5.60	123.10	120.30
4	V	113	LYS	CA-CB-CG	5.60	125.72	113.40
4	1	279	TYR	CB-CG-CD2	-5.60	117.64	121.00
4	X	113	LYS	CA-CB-CG	5.60	125.71	113.40
4	9	279	TYR	CB-CG-CD2	-5.59	117.64	121.00
4	Z	113	LYS	CA-CB-CG	5.59	125.71	113.40
1	D	723	ARG	NE-CZ-NH1	5.59	123.10	120.30
4	7	294	TYR	CB-CG-CD2	-5.59	117.64	121.00
4	1	113	LYS	CA-CB-CG	5.59	125.70	113.40
4	6	356	TRP	CG-CD2-CE3	5.58	138.93	133.90
1	D	693	HIS	CA-CB-CG	-5.58	104.11	113.60
4	8	356	TRP	CG-CD2-CE3	5.58	138.92	133.90
4	3	113	LYS	CA-CB-CG	5.58	125.67	113.40
1	G	686	MET	N-CA-CB	-5.58	100.56	110.60
4	5	113	LYS	CA-CB-CG	5.58	125.67	113.40
4	W	356	TRP	CG-CD2-CE3	5.58	138.92	133.90
1	A	693	HIS	CA-CB-CG	-5.57	104.12	113.60
1	J	686	MET	N-CA-CB	-5.57	100.57	110.60
4	7	113	LYS	CA-CB-CG	5.57	125.66	113.40
4	Z	356	TRP	CG-CD2-CE3	5.57	138.92	133.90
1	D	752	ASP	CB-CA-C	5.57	121.55	110.40
1	G	785	GLU	O-C-N	5.57	131.61	122.70
1	J	780	ASP	CB-CG-OD1	-5.57	113.29	118.30
1	P	33	ASP	CB-CG-OD2	5.57	123.31	118.30
4	8	113	LYS	CA-CB-CG	5.56	125.64	113.40
1	M	33	ASP	CB-CG-OD2	5.56	123.31	118.30
1	G	320	ILE	CB-CA-C	-5.56	100.48	111.60
4	Y	294	TYR	CB-CG-CD2	-5.56	117.67	121.00
4	4	279	TYR	CB-CG-CD2	-5.56	117.67	121.00
4	9	294	TYR	CB-CG-CD2	-5.55	117.67	121.00
4	6	113	LYS	CA-CB-CG	5.55	125.62	113.40
1	P	686	MET	N-CA-CB	-5.55	100.61	110.60
4	9	11	ASP	CB-CG-OD1	5.55	123.30	118.30
4	1	254	ARG	N-CA-CB	-5.55	100.61	110.60
4	3	356	TRP	CG-CD2-CE3	5.55	138.89	133.90
4	2	254	ARG	N-CA-CB	-5.55	100.61	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	254	ARG	N-CA-CB	-5.55	100.61	110.60
4	W	113	LYS	CA-CB-CG	5.55	125.61	113.40
4	V	294	TYR	CB-CG-CD2	-5.55	117.67	121.00
4	Z	254	ARG	N-CA-CB	-5.55	100.62	110.60
4	2	279	TYR	CB-CG-CD2	-5.54	117.67	121.00
4	1	356	TRP	CG-CD2-CE3	5.54	138.89	133.90
1	A	686	MET	N-CA-CB	-5.54	100.62	110.60
4	3	254	ARG	N-CA-CB	-5.54	100.63	110.60
4	X	356	TRP	CG-CD2-CE3	5.54	138.89	133.90
4	3	294	TYR	CB-CG-CD2	-5.54	117.68	121.00
4	7	279	TYR	CB-CG-CD2	-5.54	117.68	121.00
4	1	11	ASP	CB-CG-OD1	5.54	123.28	118.30
1	M	686	MET	N-CA-CB	-5.54	100.64	110.60
4	5	356	TRP	CG-CD2-CE3	5.53	138.88	133.90
1	D	384	ASP	CB-CG-OD1	-5.53	113.32	118.30
1	G	306	THR	CA-CB-CG2	-5.53	104.66	112.40
1	A	752	ASP	CB-CA-C	5.53	121.46	110.40
4	5	279	TYR	CB-CG-CD2	-5.53	117.68	121.00
4	W	294	TYR	CB-CG-CD2	-5.53	117.68	121.00
4	8	254	ARG	N-CA-CB	-5.53	100.65	110.60
4	W	254	ARG	N-CA-CB	-5.53	100.65	110.60
1	P	781	ASP	CB-CG-OD2	5.52	123.27	118.30
4	6	279	TYR	CB-CG-CD2	-5.52	117.69	121.00
4	5	254	ARG	N-CA-CB	-5.52	100.67	110.60
4	8	11	ASP	CB-CG-OD1	5.51	123.26	118.30
4	2	356	TRP	CG-CD2-CE3	5.51	138.86	133.90
4	4	11	ASP	CB-CG-OD1	5.51	123.26	118.30
4	4	254	ARG	N-CA-CB	-5.51	100.68	110.60
4	4	254	ARG	NE-CZ-NH1	5.51	123.06	120.30
1	D	306	THR	CA-CB-CG2	-5.51	104.69	112.40
1	D	686	MET	N-CA-CB	-5.51	100.68	110.60
4	2	294	TYR	CB-CG-CD2	-5.51	117.69	121.00
4	6	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	Y	254	ARG	N-CA-CB	-5.51	100.68	110.60
4	3	11	ASP	CB-CG-OD1	5.51	123.26	118.30
1	A	33	ASP	CB-CG-OD2	5.51	123.26	118.30
1	A	326	ASP	CB-CG-OD2	5.51	123.26	118.30
4	6	356	TRP	CG-CD1-NE1	-5.50	104.60	110.10
1	P	547	ASP	CB-CG-OD2	5.50	123.25	118.30
4	9	254	ARG	N-CA-CB	-5.50	100.70	110.60
1	G	752	ASP	CB-CA-C	5.50	121.40	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	723	ARG	NE-CZ-NH1	5.50	123.05	120.30
4	8	294	TYR	CB-CG-CD2	-5.50	117.70	121.00
4	X	294	TYR	CB-CG-CD2	-5.50	117.70	121.00
1	P	326	ASP	CB-CG-OD2	5.49	123.24	118.30
1	A	306	THR	CA-CB-CG2	-5.49	104.71	112.40
1	D	320	ILE	CB-CA-C	-5.49	100.62	111.60
1	P	320	ILE	CB-CA-C	-5.49	100.62	111.60
4	7	254	ARG	N-CA-CB	-5.49	100.72	110.60
1	J	781	ASP	CB-CG-OD2	5.49	123.24	118.30
4	6	294	TYR	CB-CG-CD2	-5.49	117.71	121.00
4	6	11	ASP	CB-CG-OD1	5.48	123.23	118.30
1	M	752	ASP	CB-CA-C	5.48	121.36	110.40
1	P	752	ASP	CB-CA-C	5.48	121.37	110.40
1	J	752	ASP	CB-CA-C	5.48	121.36	110.40
1	M	320	ILE	CB-CA-C	-5.48	100.64	111.60
4	4	79	TRP	CB-CG-CD1	-5.48	119.88	127.00
1	J	326	ASP	CB-CG-OD2	5.48	123.23	118.30
4	4	356	TRP	CG-CD2-CE3	5.47	138.82	133.90
4	9	356	TRP	CG-CD2-CE3	5.47	138.82	133.90
4	Y	11	ASP	CB-CG-OD1	5.47	123.23	118.30
4	W	11	ASP	CB-CG-OD1	5.47	123.22	118.30
1	D	33	ASP	CB-CG-OD2	5.47	123.22	118.30
4	3	147	ARG	NE-CZ-NH2	-5.46	117.57	120.30
4	8	279	TYR	CB-CG-CD2	-5.46	117.72	121.00
4	Z	79	TRP	CB-CG-CD1	-5.46	119.90	127.00
1	A	320	ILE	CB-CA-C	-5.46	100.68	111.60
1	M	547	ASP	CB-CG-OD2	5.46	123.21	118.30
4	X	11	ASP	CB-CG-OD1	5.46	123.21	118.30
1	A	723	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	J	320	ILE	CB-CA-C	-5.45	100.69	111.60
1	M	384	ASP	CB-CG-OD1	-5.45	113.39	118.30
1	M	781	ASP	CB-CG-OD2	5.45	123.21	118.30
4	6	356	TRP	CB-CG-CD1	-5.45	119.91	127.00
4	W	279	TYR	CB-CG-CD2	-5.45	117.73	121.00
1	P	723	ARG	NE-CZ-NH1	5.45	123.03	120.30
4	2	11	ASP	CB-CG-OD1	5.45	123.20	118.30
4	5	11	ASP	CB-CG-OD1	5.45	123.20	118.30
4	W	79	TRP	CB-CG-CD1	-5.45	119.92	127.00
1	J	306	THR	CA-CB-CG2	-5.45	104.77	112.40
4	V	356	TRP	CG-CD2-CE3	5.44	138.80	133.90
4	4	294	TYR	CB-CG-CD2	-5.44	117.73	121.00
4	7	79	TRP	CB-CG-CD1	-5.44	119.92	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Y	147	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	G	33	ASP	CB-CG-OD2	5.44	123.20	118.30
1	A	241	ASP	CB-CG-OD2	5.44	123.19	118.30
4	X	356	TRP	CB-CG-CD1	-5.43	119.94	127.00
4	Z	294	TYR	CB-CG-CD2	-5.43	117.74	121.00
1	M	306	THR	CA-CB-CG2	-5.43	104.80	112.40
4	Y	279	TYR	CB-CG-CD2	-5.43	117.74	121.00
4	4	356	TRP	CB-CG-CD1	-5.43	119.94	127.00
4	7	11	ASP	CB-CG-OD1	5.43	123.19	118.30
1	P	306	THR	CA-CB-CG2	-5.43	104.80	112.40
4	V	11	ASP	CB-CG-OD1	5.43	123.18	118.30
4	Z	11	ASP	CB-CG-OD1	5.42	123.18	118.30
4	2	79	TRP	CB-CG-CD1	-5.42	119.96	127.00
4	3	356	TRP	CB-CG-CD1	-5.42	119.96	127.00
1	D	326	ASP	CB-CG-OD2	5.42	123.17	118.30
4	X	79	TRP	CB-CG-CD1	-5.41	119.96	127.00
1	M	326	ASP	CB-CG-OD2	5.41	123.17	118.30
1	D	547	ASP	CB-CG-OD2	5.41	123.17	118.30
4	2	356	TRP	CB-CG-CD1	-5.41	119.97	127.00
4	8	356	TRP	CG-CD1-NE1	-5.41	104.69	110.10
4	9	79	TRP	CB-CG-CD1	-5.41	119.97	127.00
4	V	279	TYR	CB-CG-CD2	-5.41	117.75	121.00
4	V	147	ARG	NE-CZ-NH2	-5.41	117.60	120.30
4	V	356	TRP	CB-CG-CD1	-5.41	119.97	127.00
1	P	343	PHE	CB-CG-CD2	-5.40	117.02	120.80
4	7	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	Z	356	TRP	CB-CG-CD1	-5.40	119.98	127.00
1	J	547	ASP	CB-CG-OD2	5.40	123.16	118.30
4	7	147	ARG	NE-CZ-NH2	-5.40	117.60	120.30
4	Y	79	TRP	CB-CG-CD1	-5.40	119.98	127.00
4	1	79	TRP	CB-CG-CD1	-5.40	119.99	127.00
4	5	79	TRP	CB-CG-CD1	-5.39	119.99	127.00
4	5	356	TRP	CB-CG-CD1	-5.39	119.99	127.00
1	J	384	ASP	CB-CG-OD1	-5.39	113.45	118.30
4	X	279	TYR	CB-CG-CD2	-5.39	117.76	121.00
4	Y	356	TRP	CB-CG-CD1	-5.39	119.99	127.00
1	J	241	ASP	CB-CG-OD2	5.39	123.15	118.30
1	M	218	LEU	O-C-N	5.39	131.33	122.70
1	A	343	PHE	CB-CG-CD2	-5.39	117.03	120.80
1	P	218	LEU	O-C-N	5.39	131.32	122.70
4	9	147	ARG	NE-CZ-NH2	-5.39	117.61	120.30
4	W	356	TRP	CB-CG-CD1	-5.39	120.00	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	170	ARG	NE-CZ-NH1	5.38	122.99	120.30
1	A	686	MET	CG-SD-CE	-5.38	91.59	100.20
4	Z	279	TYR	CB-CG-CD2	-5.38	117.77	121.00
1	G	686	MET	CG-SD-CE	-5.38	91.59	100.20
4	3	79	TRP	CB-CG-CD1	-5.38	120.01	127.00
4	8	356	TRP	CB-CG-CD1	-5.38	120.01	127.00
1	D	800	ARG	NH1-CZ-NH2	5.38	125.31	119.40
1	G	326	ASP	CB-CG-OD2	5.37	123.14	118.30
4	5	356	TRP	CG-CD1-NE1	-5.37	104.73	110.10
1	P	241	ASP	CB-CG-OD2	5.37	123.13	118.30
2	Q	136	MET	CG-SD-CE	5.37	108.79	100.20
4	2	251	GLY	CA-C-N	-5.37	105.39	117.20
4	8	251	GLY	CA-C-N	-5.37	105.39	117.20
4	Y	356	TRP	CG-CD1-NE1	-5.37	104.73	110.10
1	A	601	ASP	CB-CG-OD2	5.37	123.13	118.30
1	J	343	PHE	CB-CG-CD2	-5.37	117.04	120.80
1	P	800	ARG	NH1-CZ-NH2	5.37	125.30	119.40
4	1	356	TRP	CB-CG-CD1	-5.36	120.03	127.00
4	V	79	TRP	CB-CG-CD1	-5.36	120.03	127.00
4	Y	251	GLY	CA-C-N	-5.36	105.40	117.20
1	J	686	MET	CG-SD-CE	-5.36	91.62	100.20
4	8	79	TRP	CB-CG-CD1	-5.36	120.03	127.00
4	6	79	TRP	CB-CG-CD1	-5.36	120.04	127.00
1	G	125	THR	CA-CB-CG2	-5.36	104.90	112.40
1	M	686	MET	CG-SD-CE	-5.36	91.63	100.20
4	1	356	TRP	CG-CD1-NE1	-5.36	104.75	110.10
4	9	251	GLY	CA-C-N	-5.36	105.42	117.20
1	D	241	ASP	CB-CG-OD2	5.35	123.12	118.30
4	5	251	GLY	CA-C-N	-5.35	105.42	117.20
4	5	335	ARG	NE-CZ-NH1	5.35	122.98	120.30
4	W	356	TRP	CG-CD1-NE1	-5.35	104.75	110.10
1	A	384	ASP	CB-CG-OD1	-5.35	113.48	118.30
1	J	218	LEU	O-C-N	5.35	131.26	122.70
2	K	136	MET	CG-SD-CE	5.35	108.76	100.20
1	P	686	MET	CG-SD-CE	-5.35	91.64	100.20
4	6	251	GLY	CA-C-N	-5.35	105.43	117.20
4	V	356	TRP	CG-CD1-NE1	-5.35	104.75	110.10
4	W	251	GLY	CA-C-N	-5.35	105.43	117.20
4	X	251	GLY	CA-C-N	-5.35	105.43	117.20
1	G	218	LEU	O-C-N	5.35	131.25	122.70
1	P	601	ASP	CB-CG-OD2	5.35	123.11	118.30
4	X	356	TRP	CG-CD1-NE1	-5.35	104.75	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	601	ASP	CB-CG-OD2	5.35	123.11	118.30
4	5	176	MET	CG-SD-CE	5.35	108.75	100.20
4	9	356	TRP	CB-CG-CD1	-5.34	120.05	127.00
4	W	147	ARG	NE-CZ-NH2	-5.34	117.63	120.30
2	B	136	MET	CG-SD-CE	5.34	108.75	100.20
1	D	601	ASP	CB-CG-OD2	5.34	123.11	118.30
4	8	147	ARG	NE-CZ-NH2	-5.34	117.63	120.30
4	4	251	GLY	CA-C-N	-5.34	105.45	117.20
4	3	356	TRP	CG-CD1-NE1	-5.34	104.76	110.10
4	7	176	MET	CG-SD-CE	5.34	108.74	100.20
1	J	800	ARG	NH1-CZ-NH2	5.34	125.27	119.40
4	V	251	GLY	CA-C-N	-5.34	105.46	117.20
1	D	343	PHE	CB-CG-CD2	-5.33	117.07	120.80
1	M	343	PHE	CB-CG-CD2	-5.33	117.07	120.80
1	M	601	ASP	CB-CG-OD2	5.33	123.10	118.30
4	1	251	GLY	CA-C-N	-5.33	105.47	117.20
4	7	251	GLY	CA-C-N	-5.33	105.47	117.20
4	3	251	GLY	CA-C-N	-5.33	105.47	117.20
4	V	176	MET	CG-SD-CE	5.33	108.72	100.20
4	Y	53	TYR	CB-CG-CD1	-5.33	117.80	121.00
1	P	384	ASP	CB-CG-OD1	-5.33	113.51	118.30
4	7	356	TRP	CG-CD1-NE1	-5.33	104.78	110.10
4	9	335	ARG	NE-CZ-NH1	5.33	122.96	120.30
4	Z	251	GLY	CA-C-N	-5.33	105.49	117.20
4	Y	176	MET	CG-SD-CE	5.32	108.71	100.20
4	Z	356	TRP	CG-CD1-NE1	-5.32	104.78	110.10
1	G	241	ASP	CB-CG-OD2	5.32	123.09	118.30
1	J	125	THR	CA-CB-CG2	-5.32	104.95	112.40
1	P	4	ASP	CB-CG-OD1	-5.32	113.51	118.30
4	9	356	TRP	CG-CD1-NE1	-5.32	104.78	110.10
4	X	176	MET	CG-SD-CE	5.32	108.71	100.20
1	M	660	LEU	CB-CG-CD2	5.32	120.04	111.00
4	1	176	MET	CG-SD-CE	5.32	108.70	100.20
1	A	125	THR	CA-CB-CG2	-5.31	104.96	112.40
4	Z	62	ARG	NE-CZ-NH1	5.31	122.96	120.30
1	G	800	ARG	NH1-CZ-NH2	5.31	125.24	119.40
1	G	723	ARG	NE-CZ-NH1	5.31	122.95	120.30
4	4	356	TRP	CG-CD1-NE1	-5.31	104.79	110.10
1	D	354	LEU	CB-CG-CD2	-5.31	101.98	111.00
1	D	686	MET	CG-SD-CE	-5.31	91.71	100.20
2	H	136	MET	CG-SD-CE	5.31	108.69	100.20
4	8	335	ARG	NE-CZ-NH1	5.31	122.95	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	800	ARG	NH1-CZ-NH2	5.30	125.23	119.40
4	2	356	TRP	CG-CD1-NE1	-5.30	104.80	110.10
1	D	660	LEU	CB-CG-CD2	5.30	120.01	111.00
2	N	136	MET	CG-SD-CE	5.30	108.68	100.20
4	1	147	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	G	354	LEU	CB-CG-CD2	-5.30	101.99	111.00
1	D	125	THR	CA-CB-CG2	-5.30	104.98	112.40
1	G	343	PHE	CB-CG-CD2	-5.30	117.09	120.80
4	4	176	MET	CG-SD-CE	5.30	108.67	100.20
1	A	354	LEU	CB-CG-CD2	-5.29	102.00	111.00
4	6	176	MET	CG-SD-CE	5.29	108.67	100.20
4	8	176	MET	CG-SD-CE	5.29	108.67	100.20
4	W	176	MET	CG-SD-CE	5.29	108.67	100.20
4	3	176	MET	CG-SD-CE	5.29	108.66	100.20
4	Z	176	MET	CG-SD-CE	5.29	108.66	100.20
2	E	136	MET	CG-SD-CE	5.28	108.65	100.20
4	4	337	TYR	CB-CG-CD1	-5.28	117.83	121.00
4	6	147	ARG	NE-CZ-NH2	-5.28	117.66	120.30
1	J	660	LEU	CB-CG-CD2	5.27	119.97	111.00
4	5	147	ARG	NE-CZ-NH2	-5.27	117.66	120.30
4	9	176	MET	CG-SD-CE	5.27	108.64	100.20
1	M	760	PHE	CB-CG-CD1	5.27	124.49	120.80
1	J	723	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	M	241	ASP	CB-CG-OD2	5.27	123.04	118.30
1	A	660	LEU	CB-CG-CD2	5.27	119.95	111.00
1	G	660	LEU	CB-CG-CD2	5.27	119.95	111.00
1	D	760	PHE	CB-CG-CD1	5.27	124.49	120.80
1	P	125	THR	CA-CB-CG2	-5.27	105.03	112.40
4	2	176	MET	CG-SD-CE	5.26	108.62	100.20
4	X	147	ARG	NE-CZ-NH2	-5.26	117.67	120.30
4	1	62	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	J	170	ARG	NE-CZ-NH1	5.26	122.93	120.30
1	P	760	PHE	CB-CG-CD1	5.26	124.48	120.80
1	D	218	LEU	O-C-N	5.26	131.11	122.70
1	J	601	ASP	CB-CG-OD2	5.25	123.03	118.30
4	2	62	ARG	NE-CZ-NH1	5.25	122.93	120.30
4	3	62	ARG	NE-CZ-NH1	5.25	122.93	120.30
1	M	125	THR	CA-CB-CG2	-5.25	105.05	112.40
4	6	91	TYR	CB-CG-CD2	-5.25	117.85	121.00
4	5	62	ARG	NE-CZ-NH1	5.25	122.92	120.30
4	6	335	ARG	NE-CZ-NH1	5.25	122.92	120.30
1	A	760	PHE	CB-CG-CD1	5.24	124.47	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	170	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	D	4	ASP	CB-CG-OD1	-5.24	113.59	118.30
1	M	4	ASP	CB-CG-OD1	-5.24	113.58	118.30
1	P	660	LEU	CB-CG-CD2	5.24	119.91	111.00
4	1	335	ARG	NE-CZ-NH1	5.23	122.92	120.30
4	Y	335	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	A	218	LEU	O-C-N	5.22	131.06	122.70
1	A	346	ASP	N-CA-CB	-5.22	101.20	110.60
1	G	547	ASP	CB-CG-OD2	5.22	123.00	118.30
4	V	62	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	G	384	ASP	CB-CG-OD1	-5.22	113.60	118.30
4	2	91	TYR	CB-CG-CD2	-5.21	117.87	121.00
1	A	547	ASP	CB-CG-OD2	5.21	122.99	118.30
1	J	346	ASP	N-CA-CB	-5.21	101.22	110.60
1	J	354	LEU	CB-CG-CD2	-5.21	102.14	111.00
1	A	800	ARG	NH1-CZ-NH2	5.21	125.13	119.40
4	4	335	ARG	NE-CZ-NH1	5.21	122.90	120.30
4	5	91	TYR	CB-CG-CD2	-5.21	117.88	121.00
1	A	555	TYR	CB-CG-CD1	5.21	124.12	121.00
4	2	337	TYR	CB-CG-CD1	-5.21	117.88	121.00
1	J	4	ASP	CB-CG-OD1	-5.20	113.62	118.30
4	Z	335	ARG	NE-CZ-NH1	5.20	122.90	120.30
4	Z	147	ARG	NE-CZ-NH2	-5.20	117.70	120.30
1	P	346	ASP	N-CA-CB	-5.20	101.24	110.60
1	P	555	TYR	CB-CG-CD1	5.20	124.12	121.00
4	7	62	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	A	4	ASP	CB-CG-OD1	-5.20	113.62	118.30
1	G	4	ASP	CB-CG-OD1	-5.20	113.62	118.30
4	4	91	TYR	CB-CG-CD2	-5.19	117.88	121.00
1	D	346	ASP	N-CA-CB	-5.18	101.27	110.60
1	P	354	LEU	CB-CG-CD2	-5.18	102.19	111.00
1	M	354	LEU	CB-CG-CD2	-5.18	102.19	111.00
1	G	760	PHE	CB-CG-CD1	5.18	124.43	120.80
4	W	335	ARG	NE-CZ-NH1	5.18	122.89	120.30
4	4	62	ARG	NE-CZ-NH1	5.18	122.89	120.30
4	Z	337	TYR	CB-CG-CD1	-5.18	117.89	121.00
1	A	90	ASP	CB-CG-OD1	-5.17	113.64	118.30
4	6	290	ARG	CA-C-N	5.17	128.58	117.20
4	Z	91	TYR	CB-CG-CD2	-5.17	117.90	121.00
1	M	346	ASP	N-CA-CB	-5.17	101.29	110.60
4	8	337	TYR	CB-CG-CD1	-5.17	117.90	121.00
4	W	53	TYR	CB-CG-CD1	-5.17	117.90	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	2	335	ARG	NE-CZ-NH1	5.17	122.88	120.30
4	9	62	ARG	NE-CZ-NH1	5.17	122.88	120.30
4	5	337	TYR	CB-CG-CD1	-5.16	117.90	121.00
4	X	290	ARG	CA-C-N	5.16	128.56	117.20
4	X	62	ARG	NE-CZ-NH1	5.16	122.88	120.30
4	4	290	ARG	CA-C-N	5.16	128.55	117.20
4	Y	290	ARG	CA-C-N	5.16	128.55	117.20
4	7	53	TYR	CB-CG-CD1	-5.16	117.91	121.00
4	Z	290	ARG	CA-C-N	5.16	128.55	117.20
4	3	335	ARG	NE-CZ-NH1	5.16	122.88	120.30
4	8	290	ARG	CA-C-N	5.16	128.54	117.20
4	V	335	ARG	NE-CZ-NH1	5.16	122.88	120.30
4	W	290	ARG	CA-C-N	5.16	128.54	117.20
4	2	147	ARG	NE-CZ-NH2	-5.15	117.72	120.30
4	5	290	ARG	CA-C-N	5.15	128.54	117.20
4	1	290	ARG	CA-C-N	5.15	128.53	117.20
4	9	290	ARG	CA-C-N	5.15	128.54	117.20
4	7	290	ARG	CA-C-N	5.15	128.53	117.20
4	2	290	ARG	CA-C-N	5.15	128.53	117.20
4	6	62	ARG	NE-CZ-NH1	5.15	122.87	120.30
1	A	160	ASP	CB-CG-OD2	-5.14	113.67	118.30
4	V	290	ARG	CA-C-N	5.14	128.51	117.20
1	P	90	ASP	CB-CG-OD1	-5.14	113.67	118.30
4	3	290	ARG	CA-C-N	5.14	128.51	117.20
4	4	147	ARG	NE-CZ-NH2	-5.14	117.73	120.30
1	A	576	GLU	CA-CB-CG	-5.14	102.10	113.40
1	G	555	TYR	CB-CG-CD1	5.13	124.08	121.00
1	M	555	TYR	CB-CG-CD1	5.13	124.08	121.00
4	8	91	TYR	CB-CG-CD2	-5.13	117.92	121.00
4	9	337	TYR	CB-CG-CD1	-5.13	117.92	121.00
1	J	760	PHE	CB-CG-CD1	5.13	124.39	120.80
4	W	62	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	D	576	GLU	CA-CB-CG	-5.13	102.12	113.40
1	G	170	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	P	576	GLU	CA-CB-CG	-5.13	102.12	113.40
4	4	53	TYR	CB-CG-CD1	-5.13	117.92	121.00
4	Y	91	TYR	CB-CG-CD2	-5.13	117.92	121.00
1	M	628	GLY	O-C-N	-5.12	114.50	122.70
1	G	346	ASP	N-CA-CB	-5.12	101.38	110.60
4	Z	53	TYR	CB-CG-CD1	-5.12	117.93	121.00
1	J	90	ASP	CB-CG-OD1	-5.12	113.69	118.30
4	1	91	TYR	CB-CG-CD2	-5.12	117.93	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	5	53	TYR	CB-CG-CD1	-5.12	117.93	121.00
4	1	337	TYR	CB-CG-CD1	-5.12	117.93	121.00
1	M	576	GLU	CA-CB-CG	-5.11	102.15	113.40
4	7	337	TYR	CB-CG-CD1	-5.11	117.93	121.00
1	G	628	GLY	O-C-N	-5.11	114.53	122.70
4	3	62	ARG	CA-CB-CG	5.11	124.64	113.40
1	P	628	GLY	O-C-N	-5.11	114.53	122.70
4	1	86	TRP	CG-CD1-NE1	-5.11	104.99	110.10
4	2	53	TYR	CB-CG-CD1	-5.11	117.94	121.00
4	7	335	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	J	576	GLU	CA-CB-CG	-5.10	102.17	113.40
4	2	62	ARG	CA-CB-CG	5.10	124.62	113.40
4	6	62	ARG	CA-CB-CG	5.10	124.62	113.40
4	3	53	TYR	CB-CG-CD1	-5.10	117.94	121.00
4	7	91	TYR	CB-CG-CD2	-5.10	117.94	121.00
4	V	53	TYR	CB-CG-CD1	-5.10	117.94	121.00
1	J	628	GLY	O-C-N	-5.10	114.55	122.70
4	Y	62	ARG	NE-CZ-NH1	5.10	122.85	120.30
1	G	576	GLU	CA-CB-CG	-5.10	102.19	113.40
4	9	91	TYR	CB-CG-CD2	-5.09	117.94	121.00
1	D	170	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	M	82	PRO	N-CA-CB	5.09	109.41	103.30
4	Z	62	ARG	CA-CB-CG	5.09	124.60	113.40
4	7	62	ARG	CA-CB-CG	5.09	124.60	113.40
4	W	91	TYR	CB-CG-CD2	-5.09	117.95	121.00
1	M	160	ASP	CB-CG-OD2	-5.09	113.72	118.30
4	4	62	ARG	CA-CB-CG	5.09	124.59	113.40
4	8	62	ARG	CA-CB-CG	5.09	124.59	113.40
4	V	337	TYR	CB-CG-CD1	-5.08	117.95	121.00
1	D	218	LEU	CA-CB-CG	5.08	126.99	115.30
4	5	191	LYS	CA-C-N	5.08	128.38	117.20
4	X	62	ARG	CA-CB-CG	5.08	124.59	113.40
4	Y	337	TYR	CB-CG-CD1	-5.08	117.95	121.00
1	P	82	PRO	N-CA-CB	5.08	109.40	103.30
4	W	62	ARG	CA-CB-CG	5.08	124.58	113.40
1	G	90	ASP	CB-CG-OD1	-5.08	113.73	118.30
1	J	82	PRO	N-CA-CB	5.08	109.39	103.30
4	3	191	LYS	CA-C-N	5.08	128.37	117.20
4	8	86	TRP	CG-CD1-NE1	-5.08	105.02	110.10
1	D	621	LEU	CA-CB-CG	-5.08	103.62	115.30
1	M	218	LEU	CA-CB-CG	5.08	126.98	115.30
1	D	628	GLY	O-C-N	-5.08	114.58	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1	62	ARG	CA-CB-CG	5.08	124.57	113.40
1	A	218	LEU	CA-CB-CG	5.07	126.97	115.30
1	D	160	ASP	CB-CG-OD2	-5.07	113.73	118.30
1	G	621	LEU	CA-CB-CG	-5.07	103.63	115.30
4	2	191	LYS	CA-C-N	5.07	128.36	117.20
4	5	62	ARG	CA-CB-CG	5.07	124.56	113.40
1	A	463	ASP	CB-CG-OD1	5.07	122.86	118.30
4	7	191	LYS	CA-C-N	5.07	128.36	117.20
4	6	191	LYS	CA-C-N	5.07	128.36	117.20
4	9	53	TYR	CB-CG-CD1	-5.07	117.96	121.00
4	X	335	ARG	NE-CZ-NH1	5.07	122.83	120.30
4	8	191	LYS	CA-C-N	5.07	128.35	117.20
4	4	191	LYS	CA-C-N	5.06	128.34	117.20
4	X	91	TYR	CB-CG-CD2	-5.06	117.96	121.00
4	Y	191	LYS	CA-C-N	5.06	128.34	117.20
1	M	621	LEU	CA-CB-CG	-5.06	103.66	115.30
4	9	191	LYS	CA-C-N	5.06	128.34	117.20
4	V	62	ARG	CA-CB-CG	5.06	124.53	113.40
4	X	191	LYS	CA-C-N	5.06	128.34	117.20
4	Z	86	TRP	CG-CD1-NE1	-5.06	105.04	110.10
1	J	218	LEU	CA-CB-CG	5.06	126.94	115.30
1	A	235	ALA	N-CA-CB	-5.06	103.02	110.10
1	J	301	ASP	CB-CG-OD2	5.06	122.85	118.30
1	D	82	PRO	N-CA-CB	5.06	109.37	103.30
4	9	62	ARG	CA-CB-CG	5.06	124.53	113.40
4	W	337	TYR	CB-CG-CD1	-5.06	117.97	121.00
4	Y	86	TRP	CG-CD1-NE1	-5.06	105.04	110.10
1	D	463	ASP	CB-CG-OD1	5.06	122.85	118.30
1	P	218	LEU	CA-CB-CG	5.05	126.92	115.30
4	6	53	TYR	CB-CG-CD1	-5.05	117.97	121.00
4	6	337	TYR	CB-CG-CD1	-5.05	117.97	121.00
4	W	191	LYS	CA-C-N	5.05	128.32	117.20
4	3	91	TYR	CB-CG-CD2	-5.05	117.97	121.00
4	V	91	TYR	CB-CG-CD2	-5.05	117.97	121.00
4	Y	62	ARG	CA-CB-CG	5.05	124.51	113.40
1	G	160	ASP	CB-CG-OD2	-5.05	113.76	118.30
4	8	53	TYR	CB-CG-CD1	-5.04	117.97	121.00
1	A	621	LEU	CA-CB-CG	-5.04	103.70	115.30
1	P	621	LEU	CA-CB-CG	-5.04	103.70	115.30
4	1	191	LYS	CA-C-N	5.04	128.29	117.20
4	X	53	TYR	CB-CG-CD1	-5.04	117.98	121.00
4	9	86	TRP	CG-CD1-NE1	-5.04	105.06	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	7	86	TRP	CG-CD1-NE1	-5.04	105.06	110.10
1	D	90	ASP	CB-CG-OD1	-5.04	113.77	118.30
1	J	621	LEU	CA-CB-CG	-5.04	103.72	115.30
1	J	555	TYR	CB-CG-CD1	5.03	124.02	121.00
4	5	86	TRP	CG-CD1-NE1	-5.03	105.07	110.10
4	V	86	TRP	CG-CD1-NE1	-5.03	105.07	110.10
4	8	62	ARG	NE-CZ-NH1	5.03	122.82	120.30
1	M	301	ASP	CB-CG-OD2	5.03	122.83	118.30
4	6	86	TRP	CG-CD1-NE1	-5.03	105.07	110.10
4	X	337	TYR	CB-CG-CD1	-5.03	117.98	121.00
1	G	739	ASP	N-CA-CB	5.03	119.65	110.60
4	V	191	LYS	CA-C-N	5.02	128.25	117.20
4	W	86	TRP	CG-CD1-NE1	-5.02	105.08	110.10
1	J	160	ASP	CB-CG-OD2	-5.02	113.78	118.30
1	A	82	PRO	N-CA-CB	5.02	109.32	103.30
1	G	709	LYS	CA-C-N	-5.02	106.16	116.20
1	A	628	GLY	O-C-N	-5.02	114.67	122.70
4	Z	191	LYS	CA-C-N	5.02	128.24	117.20
1	J	739	ASP	N-CA-CB	5.01	119.62	110.60
1	G	218	LEU	CA-CB-CG	5.01	126.82	115.30
1	J	556	ASP	CB-CG-OD2	5.01	122.81	118.30
4	3	337	TYR	CB-CG-CD1	-5.01	118.00	121.00
1	D	235	ALA	N-CA-CB	-5.01	103.09	110.10
1	A	739	ASP	CA-CB-CG	-5.01	102.39	113.40
1	P	160	ASP	CB-CG-OD2	-5.00	113.80	118.30

All (6) chirality outliers are listed below:

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

All (81) 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

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Mol	Chain	Res	Type	Group
4	4	62	ARG	Sidechain
4	5	62	ARG	Sidechain
4	6	62	ARG	Sidechain
4	7	62	ARG	Sidechain
4	8	62	ARG	Sidechain
4	9	62	ARG	Sidechain
1	A	623	PHE	Sidechain
1	A	637	LYS	Mainchain
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	35	ARG	Mainchain
3	F	75	ALA	Mainchain
3	F	85	GLU	Mainchain
1	G	623	PHE	Sidechain
1	G	637	LYS	Mainchain
1	G	649	VAL	Mainchain
1	G	709	LYS	Mainchain
1	G	98	HIS	Mainchain
2	H	150	TYR	Sidechain
2	H	155	TYR	Mainchain
2	H	22	THR	Mainchain
3	I	75	ALA	Mainchain
3	I	85	GLU	Mainchain
1	J	623	PHE	Sidechain
1	J	637	LYS	Mainchain
1	J	649	VAL	Mainchain
1	J	709	LYS	Peptide,Mainchain
1	J	98	HIS	Mainchain
2	K	150	TYR	Sidechain
2	K	155	TYR	Mainchain

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Mol	Chain	Res	Type	Group
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	769	ALA	Peptide,Mainchain
1	M	785	GLU	Peptide,Mainchain
1	M	786	ILE	Mainchain
1	M	98	HIS	Mainchain
2	N	150	TYR	Sidechain
2	N	155	TYR	Mainchain
2	N	22	THR	Mainchain
3	O	75	ALA	Mainchain
3	O	85	GLU	Mainchain
1	P	623	PHE	Sidechain
1	P	637	LYS	Mainchain
1	P	649	VAL	Mainchain
1	P	769	ALA	Peptide,Mainchain
1	P	785	GLU	Peptide,Mainchain
1	P	98	HIS	Mainchain
2	Q	150	TYR	Sidechain
2	Q	155	TYR	Mainchain
2	Q	22	THR	Mainchain
3	R	75	ALA	Mainchain
3	R	85	GLU	Mainchain
4	V	62	ARG	Sidechain
4	W	62	ARG	Sidechain
4	X	62	ARG	Sidechain
4	Y	62	ARG	Sidechain
4	Z	62	ARG	Sidechain

## 5.2 Too-close contacts

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	6752	1556	0
1	D	6797	0	6754	1441	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G	6797	0	6757	1537	0
1	J	6797	0	6753	1455	0
1	M	6797	0	6770	1482	0
1	P	6797	0	6773	1487	0
2	B	1127	0	1087	260	0
2	E	1127	0	1086	251	0
2	H	1127	0	1088	298	0
2	K	1127	0	1089	272	0
2	N	1127	0	1088	244	0
2	Q	1127	0	1087	245	0
3	C	1123	0	1084	200	0
3	F	1123	0	1083	172	0
3	I	1123	0	1083	187	0
3	L	1123	0	1082	171	0
3	O	1123	0	1082	233	0
3	R	1123	0	1081	225	0
4	1	2906	0	2855	394	0
4	2	2906	0	2863	227	0
4	3	2906	0	2864	137	0
4	4	2906	0	2863	185	0
4	5	2906	0	2865	94	0
4	6	2906	0	2865	102	0
4	7	2906	0	2866	78	0
4	8	2906	0	2857	317	0
4	9	2906	0	2855	346	0
4	V	2906	0	2851	383	0
4	W	2906	0	2851	390	0
4	X	2906	0	2859	215	0
4	Y	2906	0	2863	161	0
4	Z	2906	0	2855	417	0
All	All	94966	0	93611	11358	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 60.

All (11358) 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:CD1	3:F:146:ILE:HG23	1.25	1.69
1:D:792:ALA:HB2	3:F:42:THR:CG2	1.21	1.68
1:A:831:TRP:CZ3	2:B:50:THR:HG21	1.13	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:287:ILE:CG2	4:4:202:THR:HB	1.23	1.63
4:2:287:ILE:HG23	4:4:202:THR:CB	1.26	1.63
1:D:798:LEU:CD1	3:F:126:LEU:HD11	1.18	1.63
1:J:838:ILE:HD11	2:K:54:MET:CE	1.30	1.62
2:N:144:VAL:HG13	2:N:153:ILE:CG1	1.17	1.62
1:A:538:GLU:CA	4:8:349:LEU:CD1	1.78	1.61
1:G:797:PHE:CE1	3:I:146:ILE:HD12	1.29	1.61
2:B:144:VAL:HG13	2:B:153:ILE:CG1	1.17	1.60
1:G:538:GLU:CA	4:V:349:LEU:CD1	1.79	1.60
2:N:144:VAL:HG13	2:N:153:ILE:CD1	1.22	1.60
1:P:725:ARG:HE	1:P:733:PRO:CB	1.09	1.60
2:Q:144:VAL:HG13	2:Q:153:ILE:CD1	1.22	1.60
1:J:797:PHE:CD1	3:L:146:ILE:HG23	1.34	1.60
1:M:538:GLU:CA	4:Z:349:LEU:CD1	1.79	1.60
1:D:538:GLU:CA	4:9:349:LEU:CD1	1.78	1.60
2:B:144:VAL:HG13	2:B:153:ILE:CD1	1.22	1.60
1:D:798:LEU:HD11	3:F:126:LEU:CD1	1.19	1.60
1:G:831:TRP:CH2	2:H:47:LEU:HD21	1.29	1.60
2:E:144:VAL:HG13	2:E:153:ILE:CG1	1.17	1.59
1:M:206:LYS:CD	1:M:217:THR:HG23	1.28	1.59
1:J:725:ARG:HE	1:J:733:PRO:CB	1.09	1.59
1:A:831:TRP:CH2	2:B:50:THR:CG2	1.86	1.58
1:D:818:TYR:CB	2:E:90:GLY:HA3	1.30	1.58
1:D:725:ARG:HE	1:D:733:PRO:CB	1.09	1.58
2:E:144:VAL:HG13	2:E:153:ILE:CD1	1.22	1.58
2:H:144:VAL:HG13	2:H:153:ILE:CG1	1.17	1.58
1:J:538:GLU:CA	4:W:349:LEU:CD1	1.79	1.58
1:P:538:GLU:CA	4:1:349:LEU:CD1	1.79	1.58
1:G:725:ARG:HE	1:G:733:PRO:CB	1.09	1.58
2:H:144:VAL:HG13	2:H:153:ILE:CD1	1.22	1.58
1:G:797:PHE:CZ	3:I:146:ILE:CD1	1.79	1.57
1:J:736:GLN:HA	1:J:743:ALA:CB	1.34	1.57
2:K:144:VAL:HG13	2:K:153:ILE:CG1	1.17	1.57
1:P:548:THR:CG2	4:3:49:GLN:CB	1.75	1.57
1:D:792:ALA:CB	3:F:42:THR:HG22	1.25	1.57
1:G:757:GLN:CG	1:G:776:GLU:HG2	1.30	1.57
1:M:818:TYR:CE1	2:N:127:ARG:NH2	1.67	1.57
1:M:530:MET:HG2	4:Z:354:GLN:CB	1.36	1.56
1:P:206:LYS:CD	1:P:217:THR:HG23	1.28	1.56
1:P:724:TYR:CE1	1:P:775:LEU:HG	1.33	1.56
4:2:287:ILE:CG1	4:4:203:THR:N	1.67	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:144:VAL:HG13	2:K:153:ILE:CD1	1.22	1.56
1:M:725:ARG:HE	1:M:733:PRO:CB	1.09	1.56
1:G:206:LYS:CD	1:G:217:THR:HG23	1.28	1.56
1:J:792:ALA:HB2	3:L:42:THR:CG2	1.08	1.56
1:M:723:ARG:HH22	1:M:783:LEU:CD1	1.09	1.56
1:M:737:PHE:CE2	3:O:84:PHE:CZ	1.87	1.56
1:A:206:LYS:CD	1:A:217:THR:HG23	1.28	1.56
1:D:206:LYS:CD	1:D:217:THR:HG23	1.28	1.56
1:G:736:GLN:HA	1:G:743:ALA:CB	1.35	1.56
4:2:203:THR:HG22	4:Z:287:ILE:CG2	1.30	1.55
1:A:725:ARG:HE	1:A:733:PRO:CB	1.09	1.55
1:D:736:GLN:HA	1:D:743:ALA:CB	1.35	1.55
1:M:792:ALA:HB2	3:O:42:THR:CG2	1.13	1.55
1:G:797:PHE:CZ	3:I:146:ILE:HD12	1.03	1.54
1:J:797:PHE:CE1	3:L:146:ILE:HG23	1.04	1.54
1:A:530:MET:HG2	4:8:354:GLN:CB	1.35	1.54
1:A:797:PHE:CE1	3:C:146:ILE:HA	1.41	1.54
1:G:757:GLN:HG3	1:G:776:GLU:CG	1.29	1.54
1:J:641:LYS:HG3	1:J:647:GLN:CG	1.37	1.54
1:J:792:ALA:CB	3:L:42:THR:CG2	1.83	1.54
2:Q:144:VAL:HG13	2:Q:153:ILE:CG1	1.17	1.54
1:A:831:TRP:CZ3	2:B:50:THR:CG2	1.85	1.54
1:D:641:LYS:HG3	1:D:647:GLN:CG	1.36	1.54
2:Q:111:SER:HB2	2:Q:148:VAL:C	1.23	1.54
1:A:505:MLY:CB	1:A:762:HIS:HD2	1.21	1.54
1:P:736:GLN:HA	1:P:743:ALA:CB	1.35	1.53
1:A:834:LEU:HD21	2:B:54:MET:CE	1.11	1.53
1:J:206:LYS:CD	1:J:217:THR:HG23	1.28	1.53
1:G:755:HIS:H	1:G:779:ARG:CZ	1.17	1.53
1:J:28:GLN:CG	1:J:723:ARG:NH1	1.70	1.53
1:M:641:LYS:HG3	1:M:647:GLN:CG	1.37	1.53
1:P:818:TYR:CE1	2:Q:127:ARG:NH2	1.72	1.53
1:J:797:PHE:CE1	3:L:146:ILE:CG2	1.91	1.53
1:A:736:GLN:HA	1:A:743:ALA:CB	1.35	1.53
1:D:721:LYS:HG3	1:D:736:GLN:CG	1.15	1.52
1:D:727:LEU:HD12	1:D:782:MLY:CD	1.17	1.52
1:D:797:PHE:CE2	3:F:126:LEU:HD22	1.42	1.52
1:J:530:MET:HG2	4:W:354:GLN:CB	1.36	1.52
1:A:831:TRP:NE1	2:B:51:PHE:CZ	1.74	1.52
1:D:530:MET:HG2	4:9:354:GLN:CB	1.35	1.52
1:P:797:PHE:CZ	3:R:146:ILE:CD1	1.89	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:736:GLN:HA	1:M:743:ALA:CB	1.35	1.52
1:P:641:LYS:HG3	1:P:647:GLN:CG	1.37	1.52
1:A:641:LYS:HG3	1:A:647:GLN:CG	1.37	1.52
1:A:836:PHE:CE1	2:B:159:HIS:HB2	1.45	1.52
2:E:111:SER:HB2	2:E:148:VAL:C	1.23	1.52
1:P:767:PHE:HB2	1:P:772:LEU:CD2	1.34	1.52
1:P:723:ARG:CZ	1:P:779:ARG:HA	1.36	1.52
1:G:556:ASP:CG	4:X:47:MET:CE	1.75	1.51
1:G:795:ARG:CA	3:I:118:MET:HE1	1.41	1.51
1:J:206:LYS:HD3	1:J:217:THR:CG2	1.40	1.51
1:G:530:MET:HG2	4:V:354:GLN:CB	1.35	1.51
4:3:290:ARG:NH2	4:5:202:THR:CG2	1.71	1.51
1:D:206:LYS:HD3	1:D:217:THR:CG2	1.40	1.51
1:J:818:TYR:CE1	2:K:127:ARG:NH2	1.75	1.51
2:K:117:LEU:HD12	2:K:147:ASN:CG	1.29	1.51
1:P:836:PHE:CE1	2:Q:159:HIS:HA	1.45	1.51
1:A:206:LYS:HD3	1:A:217:THR:CG2	1.40	1.50
1:A:797:PHE:CZ	3:C:146:ILE:HD13	1.47	1.50
1:P:721:LYS:HG3	1:P:736:GLN:CG	1.15	1.50
1:P:206:LYS:HD3	1:P:217:THR:CG2	1.40	1.50
2:N:117:LEU:HD12	2:N:147:ASN:CB	1.41	1.50
2:B:111:SER:HB2	2:B:148:VAL:C	1.23	1.50
2:B:117:LEU:HD12	2:B:147:ASN:CB	1.42	1.49
1:G:641:LYS:HG3	1:G:647:GLN:CG	1.37	1.49
2:Q:117:LEU:HD12	2:Q:147:ASN:CB	1.41	1.49
1:D:818:TYR:HB2	2:E:90:GLY:CA	1.42	1.49
2:E:117:LEU:HD12	2:E:147:ASN:CB	1.41	1.49
1:J:798:LEU:HD11	3:L:126:LEU:CD1	1.37	1.49
2:K:111:SER:HB2	2:K:148:VAL:C	1.23	1.49
1:P:530:MET:HG2	4:1:354:GLN:CB	1.36	1.49
1:P:838:ILE:HD11	2:Q:54:MET:CE	1.37	1.49
1:A:792:ALA:HB2	3:C:42:THR:CG2	1.42	1.49
1:A:800:ARG:HH22	3:C:40:ASN:ND2	1.10	1.49
1:M:838:ILE:HD11	2:N:54:MET:CE	1.39	1.49
1:P:798:LEU:HD11	3:R:126:LEU:CD1	1.38	1.49
4:2:64:ILE:HG21	4:Z:166:TYR:CZ	1.47	1.49
1:J:641:LYS:CG	1:J:647:GLN:NE2	1.77	1.48
1:A:721:LYS:HG3	1:A:736:GLN:CG	1.15	1.48
1:A:795:ARG:HB3	3:C:35:ARG:NH1	1.29	1.48
2:E:117:LEU:HD12	2:E:147:ASN:CG	1.30	1.48
1:M:206:LYS:HD3	1:M:217:THR:CG2	1.40	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:737:PHE:CE2	3:O:84:PHE:CE2	2.00	1.48
1:M:799:MET:SD	3:O:32:ASP:HB3	1.53	1.48
2:K:117:LEU:HD12	2:K:147:ASN:CB	1.41	1.48
1:P:641:LYS:CG	1:P:647:GLN:NE2	1.77	1.48
4:W:324:THR:CG2	4:Y:247:VAL:H	1.25	1.48
1:A:795:ARG:HB3	3:C:35:ARG:CZ	1.42	1.47
2:H:111:SER:HB2	2:H:148:VAL:C	1.23	1.47
2:B:117:LEU:HD12	2:B:147:ASN:CG	1.30	1.47
2:H:117:LEU:HD12	2:H:147:ASN:CB	1.42	1.47
2:N:111:SER:HB2	2:N:148:VAL:C	1.22	1.47
4:2:287:ILE:HG12	4:4:202:THR:C	1.29	1.47
1:G:206:LYS:HD3	1:G:217:THR:CG2	1.40	1.47
1:M:836:PHE:CE1	2:N:159:HIS:HA	1.47	1.47
1:D:713:SER:H	1:D:771:LEU:CD2	1.27	1.47
1:D:795:ARG:HB3	3:F:35:ARG:NH1	1.27	1.46
1:G:791:GLN:NE2	3:I:115:GLY:HA3	1.18	1.46
1:D:727:LEU:HD12	1:D:782:MLY:CE	1.42	1.46
2:N:117:LEU:HD12	2:N:147:ASN:CG	1.29	1.46
4:X:287:ILE:CB	4:Z:201:VAL:CG2	1.90	1.46
1:D:641:LYS:CG	1:D:647:GLN:NE2	1.76	1.46
1:M:538:GLU:C	4:Z:349:LEU:CD1	1.84	1.46
1:A:831:TRP:HH2	2:B:50:THR:CB	1.23	1.46
1:M:723:ARG:NH2	1:M:783:LEU:CD1	1.74	1.46
1:P:641:LYS:CD	1:P:647:GLN:CD	1.85	1.46
1:P:799:MET:SD	3:R:32:ASP:HB3	1.54	1.46
1:G:641:LYS:CG	1:G:647:GLN:NE2	1.76	1.46
1:J:84:MLY:HH11	1:J:720:PHE:CD1	1.51	1.46
1:J:505:MLY:HD2	1:J:762:HIS:CE1	1.46	1.45
1:M:819:ASN:CG	2:N:92:ASP:HB2	1.33	1.45
1:D:641:LYS:CD	1:D:647:GLN:CD	1.85	1.45
1:M:641:LYS:CG	1:M:647:GLN:NE2	1.77	1.45
2:Q:117:LEU:HD12	2:Q:147:ASN:CG	1.29	1.45
1:G:641:LYS:CD	1:G:647:GLN:CD	1.84	1.45
2:H:117:LEU:HD12	2:H:147:ASN:CG	1.30	1.45
1:J:641:LYS:CD	1:J:647:GLN:CD	1.85	1.45
1:M:641:LYS:CD	1:M:647:GLN:CD	1.85	1.45
1:A:799:MET:SD	3:C:32:ASP:HB3	1.55	1.45
1:G:538:GLU:C	4:V:349:LEU:CD1	1.84	1.45
1:A:501:GLU:HG2	1:A:762:HIS:ND1	1.31	1.44
1:A:641:LYS:CG	1:A:647:GLN:NE2	1.76	1.44
1:A:797:PHE:CZ	3:C:146:ILE:CD1	2.00	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:538:GLU:C	4:W:349:LEU:CD1	1.84	1.44
1:P:767:PHE:CB	1:P:772:LEU:CD2	1.95	1.44
1:P:786:ILE:C	1:P:787:ILE:N	1.67	1.44
1:P:819:ASN:CG	2:Q:92:ASP:HB2	1.28	1.44
1:G:831:TRP:CH2	2:H:47:LEU:CD2	1.99	1.44
1:J:28:GLN:HA	1:J:723:ARG:NH2	1.15	1.44
1:M:737:PHE:CZ	3:O:85:GLU:OE2	1.71	1.44
1:M:737:PHE:CD2	3:O:84:PHE:CZ	2.03	1.44
1:P:786:ILE:CG2	1:P:787:ILE:N	1.78	1.44
1:G:819:ASN:ND2	2:H:92:ASP:HB2	1.22	1.43
1:J:84:MLY:HH11	1:J:720:PHE:CE1	1.50	1.43
1:P:724:TYR:CZ	1:P:775:LEU:HG	1.52	1.43
1:A:149:GLN:HB2	1:A:718:ALA:CB	1.46	1.43
1:J:754:ASP:OD1	1:J:780:ASP:CB	1.65	1.43
1:A:641:LYS:CD	1:A:647:GLN:CD	1.85	1.43
1:D:736:GLN:N	1:D:743:ALA:HB1	1.34	1.43
1:G:801:VAL:HG21	3:I:126:LEU:CD2	1.48	1.42
1:A:831:TRP:CH2	2:B:50:THR:CB	1.99	1.42
1:G:567:LYS:NZ	4:X:92:ASN:HD22	1.17	1.42
1:A:538:GLU:C	4:8:349:LEU:CD1	1.84	1.42
1:D:713:SER:N	1:D:771:LEU:CD2	1.78	1.42
1:P:724:TYR:OH	1:P:775:LEU:CB	1.65	1.42
1:P:782:MLY:CH2	3:R:80:ASP:HB2	1.50	1.42
1:P:821:ARG:NH2	2:Q:127:ARG:HG2	1.16	1.42
1:A:753:VAL:HG12	1:A:775:LEU:CG	1.47	1.42
1:A:795:ARG:NH2	3:C:116:GLU:CD	1.72	1.42
1:P:538:GLU:C	4:1:349:LEU:CD1	1.84	1.42
1:M:806:MET:C	1:M:807:VAL:N	1.74	1.41
1:P:797:PHE:CE2	3:R:146:ILE:HD12	1.52	1.41
1:A:506:GLU:CB	1:A:760:PHE:O	1.69	1.41
1:D:538:GLU:C	4:9:349:LEU:CD1	1.84	1.41
1:D:799:MET:SD	3:F:32:ASP:HB3	1.59	1.41
1:P:797:PHE:CZ	3:R:146:ILE:HD13	1.47	1.41
2:E:144:VAL:CG1	2:E:153:ILE:CD1	1.99	1.41
1:G:721:LYS:HG3	1:G:736:GLN:CG	1.15	1.41
1:J:821:ARG:NH2	2:K:127:ARG:HG2	1.33	1.41
1:J:28:GLN:CA	1:J:723:ARG:NH2	1.83	1.40
1:A:505:MLY:HB3	1:A:762:HIS:CD2	1.55	1.40
1:A:814:PHE:CA	2:B:127:ARG:NH1	1.83	1.40
1:D:823:PHE:HE1	2:E:160:GLY:CA	1.32	1.40
1:M:202:SER:HA	1:M:207:LYS:CE	1.51	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:792:ALA:CB	3:O:42:THR:CG2	2.00	1.40
1:M:795:ARG:NH2	3:O:116:GLU:CD	1.72	1.40
1:A:736:GLN:CA	1:A:743:ALA:CB	2.00	1.40
1:A:814:PHE:HA	2:B:127:ARG:NH1	1.33	1.40
1:G:530:MET:CG	4:V:354:GLN:HB2	1.51	1.40
1:J:218:LEU:CB	1:J:221:GLN:HG3	1.52	1.40
1:J:537:GLU:O	4:W:349:LEU:CD1	1.70	1.40
1:M:821:ARG:NH2	2:N:127:ARG:HG2	1.17	1.40
4:2:287:ILE:HG12	4:4:202:THR:CA	1.51	1.40
1:A:202:SER:HA	1:A:207:LYS:CE	1.51	1.40
2:B:144:VAL:CG1	2:B:153:ILE:CD1	1.99	1.40
1:D:733:PRO:O	1:D:737:PHE:CD1	1.74	1.40
1:G:818:TYR:CZ	2:H:127:ARG:NH2	1.83	1.40
1:M:218:LEU:CB	1:M:221:GLN:HG3	1.52	1.40
1:M:819:ASN:ND2	2:N:92:ASP:HB2	1.33	1.40
1:P:218:LEU:CB	1:P:221:GLN:HG3	1.52	1.40
1:P:537:GLU:O	4:1:349:LEU:CD1	1.70	1.40
1:A:733:PRO:O	1:A:737:PHE:CD1	1.73	1.40
1:J:733:PRO:O	1:J:737:PHE:CD1	1.73	1.40
1:M:733:PRO:O	1:M:737:PHE:CD1	1.73	1.40
2:Q:144:VAL:CG1	2:Q:153:ILE:CD1	1.99	1.40
1:A:530:MET:CG	4:8:354:GLN:HB2	1.50	1.39
1:A:818:TYR:HB2	2:B:90:GLY:CA	1.47	1.39
1:J:28:GLN:CD	1:J:723:ARG:NH1	1.70	1.39
1:P:534:SER:O	4:1:351:THR:CG2	1.64	1.39
1:D:218:LEU:CB	1:D:221:GLN:HG3	1.52	1.39
1:D:736:GLN:CA	1:D:743:ALA:CB	2.00	1.39
1:D:823:PHE:CE1	2:E:160:GLY:HA2	1.56	1.39
1:M:797:PHE:CZ	3:O:146:ILE:CD1	2.04	1.39
1:D:736:GLN:CA	1:D:743:ALA:HB1	1.53	1.39
1:G:733:PRO:O	1:G:737:PHE:CD1	1.74	1.39
1:M:736:GLN:CA	1:M:743:ALA:HB1	1.53	1.39
1:A:218:LEU:CB	1:A:221:GLN:HG3	1.52	1.39
1:G:537:GLU:O	4:V:349:LEU:CD1	1.71	1.39
1:G:795:ARG:NE	3:I:116:GLU:HB3	1.38	1.39
2:H:144:VAL:CG1	2:H:153:ILE:CD1	1.99	1.39
1:A:149:GLN:HB3	1:A:719:ASP:N	1.21	1.39
1:D:799:MET:CE	3:F:32:ASP:HB3	1.53	1.39
1:G:218:LEU:CB	1:G:221:GLN:HG3	1.51	1.39
1:J:534:SER:O	4:W:351:THR:CG2	1.64	1.39
1:M:530:MET:CG	4:Z:354:GLN:HB2	1.51	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:144:VAL:CG1	2:N:153:ILE:CD1	1.99	1.39
1:J:202:SER:HA	1:J:207:LYS:CE	1.51	1.38
1:J:792:ALA:N	3:L:42:THR:HG22	1.34	1.38
1:M:537:GLU:O	4:Z:349:LEU:CD1	1.70	1.38
1:D:530:MET:CG	4:9:354:GLN:HB2	1.50	1.38
1:D:537:GLU:O	4:9:349:LEU:CD1	1.70	1.38
1:M:737:PHE:CE2	3:O:85:GLU:OE1	1.75	1.38
1:P:202:SER:HA	1:P:207:LYS:CE	1.51	1.38
1:P:530:MET:CG	4:1:354:GLN:HB2	1.51	1.38
1:A:499:GLU:OE1	1:A:766:PHE:CZ	1.77	1.38
2:B:144:VAL:CG1	2:B:153:ILE:HG12	1.54	1.38
1:D:799:MET:SD	3:F:32:ASP:CB	2.12	1.38
1:G:202:SER:HA	1:G:207:LYS:CE	1.51	1.38
1:J:84:MLY:CH2	1:J:720:PHE:HA	1.50	1.38
1:J:792:ALA:CA	3:L:42:THR:HG22	1.51	1.38
4:1:287:ILE:HG21	4:3:203:THR:CG2	1.53	1.38
1:A:537:GLU:O	4:8:349:LEU:CD1	1.70	1.38
1:A:795:ARG:CB	3:C:35:ARG:NH1	1.87	1.38
1:D:202:SER:HA	1:D:207:LYS:CE	1.51	1.38
1:M:723:ARG:NH2	1:M:783:LEU:HD13	1.31	1.38
1:M:797:PHE:CE2	3:O:146:ILE:HD12	1.58	1.38
1:P:733:PRO:O	1:P:737:PHE:CD1	1.73	1.38
1:A:736:GLN:CA	1:A:743:ALA:HB1	1.53	1.38
1:D:747:LEU:CD1	1:D:782:MLY:HH21	1.54	1.38
1:G:736:GLN:CA	1:G:743:ALA:HB1	1.53	1.38
1:J:736:GLN:N	1:J:743:ALA:HB1	1.35	1.38
2:K:144:VAL:CG1	2:K:153:ILE:CD1	1.99	1.38
4:4:288:ASP:CG	4:6:203:THR:CG2	1.90	1.38
1:A:736:GLN:N	1:A:743:ALA:HB1	1.34	1.37
1:J:530:MET:CG	4:W:354:GLN:HB2	1.51	1.37
1:P:723:ARG:NE	1:P:779:ARG:HA	1.34	1.37
4:3:290:ARG:CZ	4:5:202:THR:HG21	1.52	1.37
2:E:117:LEU:HB2	2:E:147:ASN:ND2	1.40	1.37
1:G:553:MLY:CH1	4:X:45:VAL:HG11	1.54	1.37
1:P:736:GLN:N	1:P:743:ALA:HB1	1.35	1.37
1:J:641:LYS:CG	1:J:647:GLN:CD	1.93	1.37
1:P:721:LYS:CG	1:P:736:GLN:CG	1.97	1.37
1:P:736:GLN:CA	1:P:743:ALA:HB1	1.53	1.37
1:P:797:PHE:CE1	3:R:146:ILE:HA	1.57	1.37
1:A:768:MLY:CB	1:A:771:LEU:HB2	1.55	1.36
1:D:641:LYS:HG3	1:D:647:GLN:CD	1.45	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:797:PHE:CE2	3:I:126:LEU:HD22	1.60	1.36
1:J:819:ASN:CG	2:K:92:ASP:HB2	1.45	1.36
1:M:799:MET:SD	3:O:32:ASP:CB	2.13	1.36
2:N:144:VAL:CG1	2:N:153:ILE:CG1	2.03	1.36
1:P:642:LYS:HG3	4:1:23:GLY:N	1.40	1.36
1:P:649:VAL:CG1	1:P:649:VAL:O	1.74	1.36
1:D:641:LYS:CG	1:D:647:GLN:CD	1.93	1.36
1:G:819:ASN:CA	2:H:90:GLY:O	1.70	1.36
1:J:649:VAL:O	1:J:649:VAL:CG1	1.73	1.36
1:P:641:LYS:CG	1:P:647:GLN:CD	1.93	1.36
2:Q:144:VAL:CG1	2:Q:153:ILE:CG1	2.03	1.36
1:J:736:GLN:CA	1:J:743:ALA:HB1	1.53	1.36
1:J:736:GLN:CA	1:J:743:ALA:CB	2.00	1.36
2:K:144:VAL:CG1	2:K:153:ILE:HG12	1.54	1.36
1:M:642:LYS:HG3	4:Z:23:GLY:N	1.40	1.36
1:D:534:SER:O	4:9:351:THR:CG2	1.64	1.36
2:K:117:LEU:HB2	2:K:147:ASN:ND2	1.39	1.36
1:D:800:ARG:NH2	3:F:40:ASN:ND2	1.69	1.36
2:E:144:VAL:CG1	2:E:153:ILE:HG12	1.54	1.36
1:J:94:MET:O	1:J:713:SER:CB	1.74	1.36
1:P:538:GLU:CA	4:1:349:LEU:HD12	0.88	1.36
2:Q:117:LEU:CD1	2:Q:147:ASN:OD1	1.74	1.36
1:G:28:GLN:HB3	1:G:723:ARG:NH2	1.41	1.35
1:G:736:GLN:N	1:G:743:ALA:HB1	1.34	1.35
1:G:795:ARG:HE	3:I:116:GLU:CB	1.39	1.35
2:H:117:LEU:CD1	2:H:147:ASN:OD1	1.74	1.35
1:J:642:LYS:HG3	4:W:23:GLY:N	1.40	1.35
1:M:641:LYS:CG	1:M:647:GLN:CD	1.93	1.35
1:M:736:GLN:N	1:M:743:ALA:HB1	1.35	1.35
1:G:736:GLN:CA	1:G:743:ALA:CB	2.00	1.35
4:4:288:ASP:OD2	4:6:203:THR:CG2	1.72	1.35
1:A:505:MLY:CB	1:A:762:HIS:CD2	2.07	1.35
1:A:641:LYS:HG3	1:A:647:GLN:CD	1.45	1.35
2:E:144:VAL:CG1	2:E:153:ILE:CG1	2.03	1.35
1:P:736:GLN:CA	1:P:743:ALA:CB	2.00	1.35
1:A:642:LYS:HG3	4:8:23:GLY:N	1.40	1.35
1:A:797:PHE:CE2	3:C:146:ILE:HD12	1.61	1.35
1:A:823:PHE:CE1	2:B:160:GLY:HA2	1.59	1.35
2:B:117:LEU:CD1	2:B:147:ASN:OD1	1.74	1.35
1:G:642:LYS:HG3	4:V:23:GLY:N	1.39	1.35
2:K:117:LEU:CD1	2:K:147:ASN:OD1	1.74	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:736:GLN:CA	1:M:743:ALA:CB	2.00	1.35
1:A:530:MET:HA	4:8:354:GLN:CG	1.56	1.35
1:D:538:GLU:CA	4:9:349:LEU:HD12	0.87	1.35
1:M:538:GLU:CA	4:Z:349:LEU:HD12	0.88	1.35
2:N:117:LEU:HB2	2:N:147:ASN:ND2	1.40	1.35
1:A:834:LEU:CD2	2:B:54:MET:CE	1.90	1.34
1:D:642:LYS:HG3	4:9:23:GLY:N	1.40	1.34
1:D:831:TRP:CZ3	2:E:34:ILE:HG23	1.61	1.34
1:J:538:GLU:CA	4:W:349:LEU:HD12	0.88	1.34
1:P:629:GLU:HA	1:P:643:GLY:O	1.17	1.34
1:P:641:LYS:HG3	1:P:647:GLN:CD	1.46	1.34
1:A:93:MET:CE	1:A:715:VAL:HA	1.56	1.34
1:A:641:LYS:CG	1:A:647:GLN:CD	1.93	1.34
1:D:649:VAL:O	1:D:649:VAL:CG1	1.73	1.34
1:G:721:LYS:CG	1:G:736:GLN:CG	1.97	1.34
1:J:799:MET:SD	3:L:32:ASP:CB	2.15	1.34
1:J:817:GLN:CG	2:K:127:ARG:HD2	1.55	1.34
2:Q:144:VAL:CG1	2:Q:153:ILE:HG12	1.54	1.34
1:D:795:ARG:CB	3:F:35:ARG:NH1	1.90	1.34
1:M:818:TYR:CZ	2:N:127:ARG:NH2	1.93	1.34
2:Q:117:LEU:HB2	2:Q:147:ASN:ND2	1.39	1.34
1:A:800:ARG:NH2	3:C:40:ASN:HD21	1.25	1.34
1:M:629:GLU:HA	1:M:643:GLY:O	1.17	1.34
2:N:144:VAL:CG1	2:N:153:ILE:HG12	1.54	1.34
1:A:149:GLN:NE2	1:A:718:ALA:HB3	1.37	1.34
1:A:649:VAL:O	1:A:649:VAL:CG1	1.73	1.34
1:M:721:LYS:HG3	1:M:736:GLN:CG	1.15	1.34
1:A:538:GLU:CA	4:8:349:LEU:HD12	0.87	1.33
1:A:707:CYS:O	1:A:714:ARG:NH2	1.58	1.33
2:E:117:LEU:CD1	2:E:147:ASN:OD1	1.74	1.33
1:G:641:LYS:CG	1:G:647:GLN:CD	1.93	1.33
2:H:117:LEU:HB2	2:H:147:ASN:ND2	1.39	1.33
1:J:530:MET:HA	4:W:354:GLN:CG	1.56	1.33
1:A:534:SER:O	4:8:351:THR:CG2	1.64	1.33
1:D:530:MET:HA	4:9:354:GLN:CG	1.56	1.33
1:J:629:GLU:HA	1:J:643:GLY:O	1.17	1.33
2:N:117:LEU:CD1	2:N:147:ASN:OD1	1.74	1.33
1:P:722:GLN:NE2	3:R:86:ASP:H	1.23	1.33
2:Q:114:LYS:CA	2:Q:146:GLY:O	1.76	1.33
1:A:721:LYS:CG	1:A:736:GLN:CG	1.97	1.33
1:A:768:MLY:HB3	1:A:771:LEU:CB	1.58	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:114:LYS:CA	2:E:146:GLY:O	1.76	1.33
1:G:508:ILE:HD11	1:G:759:ALA:CB	1.58	1.33
2:H:144:VAL:CG1	2:H:153:ILE:HG12	1.54	1.33
1:J:635:GLY:CA	4:W:334:GLU:HG2	1.59	1.33
1:J:819:ASN:ND2	2:K:92:ASP:HB2	1.39	1.33
1:M:649:VAL:O	1:M:649:VAL:CG1	1.73	1.33
1:M:798:LEU:HD11	3:O:126:LEU:CD1	1.58	1.33
1:P:819:ASN:OD1	2:Q:92:ASP:N	1.58	1.33
1:D:635:GLY:CA	4:9:334:GLU:HG2	1.59	1.33
1:G:538:GLU:CA	4:V:349:LEU:HD12	0.88	1.33
2:H:114:LYS:CA	2:H:146:GLY:O	1.76	1.33
1:P:635:GLY:CA	4:1:334:GLU:HG2	1.59	1.33
1:A:505:MLY:CG	1:A:762:HIS:HD2	1.39	1.33
1:J:28:GLN:HB3	1:J:723:ARG:CZ	1.56	1.33
1:J:721:LYS:HG3	1:J:736:GLN:CG	1.15	1.33
1:M:530:MET:HA	4:Z:354:GLN:CG	1.56	1.33
1:M:737:PHE:CD2	3:O:84:PHE:CE2	2.15	1.33
1:A:818:TYR:CB	2:B:90:GLY:HA3	1.59	1.32
1:D:727:LEU:HB2	1:D:782:MLY:CH1	0.85	1.32
1:G:725:ARG:NE	1:G:733:PRO:HB3	0.99	1.32
1:G:754:ASP:CB	1:G:776:GLU:CD	1.97	1.32
1:M:635:GLY:CA	4:Z:334:GLU:HG2	1.59	1.32
1:M:641:LYS:HG3	1:M:647:GLN:CD	1.46	1.32
1:M:721:LYS:CG	1:M:736:GLN:CG	1.97	1.32
2:B:117:LEU:HB2	2:B:147:ASN:ND2	1.39	1.32
1:D:797:PHE:CD1	3:F:146:ILE:CG2	2.12	1.32
1:G:534:SER:O	4:V:351:THR:CG2	1.64	1.32
1:G:649:VAL:O	1:G:649:VAL:CG1	1.74	1.32
1:M:548:THR:CB	4:2:48:GLY:CA	2.05	1.32
1:P:530:MET:HA	4:1:354:GLN:CG	1.56	1.32
1:D:629:GLU:HA	1:D:643:GLY:O	1.17	1.32
1:D:721:LYS:CG	1:D:736:GLN:CG	1.96	1.32
1:G:530:MET:HA	4:V:354:GLN:CG	1.57	1.32
2:K:114:LYS:CA	2:K:146:GLY:O	1.76	1.32
1:M:721:LYS:CG	1:M:736:GLN:CD	1.98	1.32
1:M:534:SER:O	4:Z:351:THR:CG2	1.64	1.32
1:M:721:LYS:HG2	1:M:736:GLN:OE1	1.29	1.32
1:M:735:GLY:O	1:M:743:ALA:HB2	1.29	1.32
1:P:786:ILE:HG22	1:P:787:ILE:N	1.06	1.32
1:A:831:TRP:CH2	2:B:50:THR:HG21	1.50	1.32
1:G:629:GLU:HA	1:G:643:GLY:O	1.17	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:114:LYS:CA	2:N:146:GLY:O	1.76	1.32
1:P:725:ARG:NE	1:P:733:PRO:HB3	1.00	1.32
1:A:629:GLU:HA	1:A:643:GLY:O	1.17	1.31
1:A:635:GLY:CA	4:8:334:GLU:HG2	1.58	1.31
1:J:725:ARG:NE	1:J:733:PRO:HB3	1.00	1.31
1:J:831:TRP:CH2	2:K:47:LEU:HD21	1.63	1.31
2:E:121:LEU:O	2:E:128:PHE:CB	1.79	1.31
1:G:800:ARG:NH2	3:I:40:ASN:OD1	1.58	1.31
1:J:819:ASN:OD1	2:K:92:ASP:N	1.62	1.31
1:A:834:LEU:CD2	2:B:54:MET:HE1	1.47	1.31
2:K:121:LEU:O	2:K:128:PHE:CB	1.78	1.31
2:N:121:LEU:O	2:N:128:PHE:CB	1.79	1.31
1:A:800:ARG:NH2	3:C:40:ASN:ND2	1.77	1.31
2:H:144:VAL:CG1	2:H:153:ILE:CG1	2.03	1.31
1:P:721:LYS:CG	1:P:736:GLN:CD	1.98	1.31
1:P:782:MLY:HH21	3:R:80:ASP:CB	1.59	1.31
4:1:205:GLU:HG3	4:Y:287:ILE:CB	1.59	1.31
1:A:93:MET:HE2	1:A:715:VAL:CA	1.59	1.31
1:A:799:MET:SD	3:C:32:ASP:CB	2.16	1.31
1:D:538:GLU:O	4:9:349:LEU:CD1	1.78	1.31
1:J:798:LEU:CD1	3:L:126:LEU:HD11	1.57	1.31
1:M:806:MET:CA	1:M:807:VAL:N	1.93	1.31
1:M:829:TRP:CZ3	2:N:87:LYS:NZ	1.98	1.31
1:A:725:ARG:NE	1:A:733:PRO:HB3	0.99	1.30
1:A:791:GLN:NE2	3:C:116:GLU:H	1.25	1.30
2:B:144:VAL:CG1	2:B:153:ILE:CG1	2.03	1.30
1:G:721:LYS:CG	1:G:736:GLN:CD	1.98	1.30
2:Q:121:LEU:O	2:Q:128:PHE:CB	1.78	1.30
4:1:167:GLU:CD	4:3:42:GLY:HA3	1.49	1.30
4:2:287:ILE:CB	4:4:202:THR:HB	1.60	1.30
1:A:831:TRP:CH2	2:B:50:THR:HB	1.57	1.30
2:B:114:LYS:CA	2:B:146:GLY:O	1.76	1.30
1:D:725:ARG:NE	1:D:733:PRO:HB3	0.99	1.30
1:G:635:GLY:CA	4:V:334:GLU:HG2	1.59	1.30
1:G:791:GLN:NE2	3:I:115:GLY:CA	1.93	1.30
1:J:792:ALA:CB	3:L:42:THR:HG23	1.46	1.30
1:P:767:PHE:CG	1:P:772:LEU:HD11	1.65	1.30
1:P:829:TRP:CZ3	2:Q:87:LYS:NZ	1.98	1.30
4:X:286:ASP:OD1	4:Z:205:GLU:HG2	1.29	1.30
1:A:149:GLN:NE2	1:A:718:ALA:CB	1.94	1.30
1:A:721:LYS:CG	1:A:736:GLN:CD	1.98	1.30

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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	1.30
1:M:707:CYS:O	1:M:710:GLY:N	1.62	1.30
1:P:819:ASN:ND2	2:Q:92:ASP:HB2	1.40	1.30
1:A:797:PHE:CE1	3:C:146:ILE:CA	2.13	1.30
2:H:121:LEU:O	2:H:128:PHE:CB	1.79	1.30
1:J:506:GLU:OE2	1:J:761:GLY:HA2	1.24	1.30
1:M:548:THR:HB	4:2:48:GLY:CA	1.61	1.30
1:M:797:PHE:CZ	3:O:146:ILE:HD12	1.64	1.30
4:2:287:ILE:HG12	4:4:203:THR:N	1.25	1.30
1:A:506:GLU:CG	1:A:760:PHE:N	1.90	1.30
1:D:767:PHE:O	1:D:771:LEU:HD11	1.23	1.30
1:D:769:ALA:HA	1:D:771:LEU:CA	0.85	1.30
1:G:754:ASP:CB	1:G:776:GLU:OE2	1.79	1.30
1:J:641:LYS:HG3	1:J:647:GLN:CD	1.45	1.30
1:M:599:ASN:HA	1:M:649:VAL:CB	1.60	1.30
1:P:799:MET:SD	3:R:32:ASP:CB	2.17	1.30
1:D:721:LYS:CG	1:D:736:GLN:CD	1.98	1.29
1:G:838:ILE:HD11	2:H:54:MET:CE	1.62	1.29
1:J:829:TRP:CZ3	2:K:87:LYS:NZ	1.97	1.29
1:J:831:TRP:CH2	2:K:47:LEU:CD2	2.14	1.29
1:M:725:ARG:NE	1:M:733:PRO:HB3	1.00	1.29
1:J:710:GLY:CA	1:J:772:LEU:HD22	1.63	1.29
1:M:215:GLN:N	1:M:340:ILE:HG12	1.19	1.29
2:B:54:MET:HA	2:H:21:GLU:OE1	1.25	1.29
1:D:735:GLY:O	1:D:743:ALA:HB2	1.29	1.29
1:G:735:GLY:C	1:G:743:ALA:CB	2.01	1.29
1:J:721:LYS:CG	1:J:736:GLN:CD	1.98	1.29
1:A:502:GLU:OE2	1:A:761:GLY:N	1.60	1.29
1:G:819:ASN:CG	2:H:92:ASP:HB2	1.39	1.29
1:J:537:GLU:C	4:W:349:LEU:HD13	1.52	1.29
1:P:721:LYS:HG3	1:P:736:GLN:CD	1.53	1.29
1:P:723:ARG:NH2	1:P:779:ARG:HA	1.46	1.29
1:G:552:ASN:O	4:X:47:MET:SD	1.91	1.29
1:G:735:GLY:O	1:G:743:ALA:HB2	1.29	1.29
1:J:215:GLN:N	1:J:340:ILE:HG12	1.19	1.29
1:J:599:ASN:HA	1:J:649:VAL:CB	1.60	1.29
1:M:786:ILE:CG2	1:M:787:ILE:H	1.35	1.29
4:W:325:MET:SD	4:Y:244:ASP:HB2	1.72	1.29
1:D:735:GLY:C	1:D:743:ALA:CB	2.01	1.28
1:D:823:PHE:CE1	2:E:160:GLY:CA	2.13	1.28
1:J:735:GLY:C	1:J:743:ALA:CB	2.01	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:537:GLU:C	4:Z:349:LEU:HD13	1.52	1.28
1:M:819:ASN:OD1	2:N:92:ASP:N	1.65	1.28
1:P:599:ASN:HA	1:P:649:VAL:CB	1.60	1.28
4:W:324:THR:HG21	4:Y:247:VAL:N	0.98	1.28
1:A:534:SER:O	4:8:351:THR:CA	1.81	1.28
1:A:599:ASN:HA	1:A:649:VAL:CB	1.61	1.28
2:K:144:VAL:CG1	2:K:153:ILE:CG1	2.03	1.28
1:M:767:PHE:CB	1:M:772:LEU:CD2	2.09	1.28
1:P:721:LYS:HG2	1:P:736:GLN:OE1	1.29	1.28
1:P:767:PHE:CB	1:P:772:LEU:HD22	1.52	1.28
1:A:537:GLU:C	4:8:349:LEU:HD13	1.52	1.28
1:G:599:ASN:HA	1:G:649:VAL:CB	1.60	1.28
1:G:721:LYS:HG2	1:G:736:GLN:OE1	1.29	1.28
1:P:798:LEU:CD1	3:R:126:LEU:HD11	1.61	1.28
1:A:85:TYR:OH	1:A:772:LEU:CD2	1.79	1.28
1:A:149:GLN:OE1	1:A:716:LEU:CD2	1.80	1.28
1:G:721:LYS:HG3	1:G:736:GLN:CD	1.53	1.28
1:J:721:LYS:HG2	1:J:736:GLN:OE1	1.29	1.28
1:M:735:GLY:C	1:M:743:ALA:CB	2.01	1.28
1:P:215:GLN:N	1:P:340:ILE:HG12	1.19	1.28
1:A:795:ARG:CZ	3:C:116:GLU:OE2	1.80	1.28
1:A:795:ARG:CD	3:C:43:ASN:OD1	1.79	1.28
1:D:599:ASN:HA	1:D:649:VAL:CB	1.60	1.28
1:J:28:GLN:CB	1:J:723:ARG:CZ	2.12	1.28
1:J:735:GLY:O	1:J:743:ALA:HB2	1.29	1.28
1:A:792:ALA:CB	3:C:42:THR:HG22	1.61	1.27
1:G:797:PHE:CD1	3:I:146:ILE:HG23	1.68	1.27
1:J:557:GLU:CA	4:Y:47:MET:HA	1.08	1.27
1:P:537:GLU:C	4:1:349:LEU:HD13	1.52	1.27
1:P:538:GLU:O	4:1:349:LEU:CD1	1.78	1.27
1:A:149:GLN:CB	1:A:719:ASP:N	1.98	1.27
1:G:641:LYS:HG3	1:G:647:GLN:CD	1.45	1.27
1:G:797:PHE:CZ	3:I:126:LEU:HD22	1.70	1.27
1:G:831:TRP:CZ2	2:H:47:LEU:HD21	1.68	1.27
1:J:710:GLY:HA2	1:J:772:LEU:CD2	1.65	1.27
1:J:799:MET:SD	3:L:32:ASP:HB3	1.71	1.27
1:A:721:LYS:HG3	1:A:736:GLN:CD	1.53	1.27
1:A:735:GLY:C	1:A:743:ALA:CB	2.01	1.27
1:D:795:ARG:HB3	3:F:35:ARG:CZ	1.64	1.27
1:G:534:SER:O	4:V:351:THR:CA	1.82	1.27
1:J:836:PHE:CE1	2:K:159:HIS:HA	1.69	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:538:GLU:O	4:Z:349:LEU:CD1	1.78	1.27
1:A:149:GLN:CG	1:A:719:ASP:OD1	1.82	1.27
1:J:721:LYS:CG	1:J:736:GLN:CG	1.97	1.27
1:P:735:GLY:C	1:P:743:ALA:CB	2.01	1.27
1:A:721:LYS:CG	1:A:736:GLN:OE1	1.82	1.27
1:A:799:MET:CE	3:C:32:ASP:HB3	1.65	1.27
1:D:537:GLU:C	4:9:349:LEU:HD13	1.52	1.27
1:G:817:GLN:OE1	2:H:127:ARG:HD2	1.29	1.27
1:P:534:SER:O	4:1:351:THR:CA	1.81	1.27
1:P:721:LYS:CG	1:P:736:GLN:OE1	1.83	1.27
1:J:754:ASP:OD1	1:J:780:ASP:CG	1.71	1.26
1:M:797:PHE:CE1	3:O:146:ILE:O	1.87	1.26
4:2:287:ILE:CG2	4:4:202:THR:CB	1.87	1.26
1:A:505:MLY:CG	1:A:762:HIS:CD2	2.18	1.26
1:A:721:LYS:HG2	1:A:736:GLN:OE1	1.29	1.26
1:D:727:LEU:HD11	1:D:782:MLY:CG	1.63	1.26
1:G:94:MET:O	1:G:713:SER:HB3	1.16	1.26
1:G:537:GLU:C	4:V:349:LEU:HD13	1.53	1.26
1:G:538:GLU:O	4:V:349:LEU:CD1	1.78	1.26
1:G:721:LYS:CG	1:G:736:GLN:OE1	1.83	1.26
1:G:821:ARG:NH2	2:H:127:ARG:HG2	1.51	1.26
1:J:538:GLU:O	4:W:349:LEU:CD1	1.78	1.26
1:M:737:PHE:CZ	3:O:85:GLU:CD	2.09	1.26
1:P:548:THR:CG2	4:3:49:GLN:HB2	0.79	1.26
1:P:818:TYR:CZ	2:Q:127:ARG:NH2	2.03	1.26
4:4:288:ASP:OD2	4:6:203:THR:HG21	1.14	1.26
1:G:797:PHE:CE1	3:I:146:ILE:HG23	1.69	1.26
1:M:84:MLY:HH13	1:M:776:GLU:CD	1.55	1.26
1:M:534:SER:O	4:Z:351:THR:CA	1.81	1.26
1:D:215:GLN:N	1:D:340:ILE:HG12	1.19	1.26
1:D:713:SER:N	1:D:771:LEU:HD22	1.35	1.26
2:E:117:LEU:HD12	2:E:147:ASN:OD1	1.32	1.26
1:G:733:PRO:O	1:G:737:PHE:HD1	0.93	1.26
1:J:721:LYS:CG	1:J:736:GLN:OE1	1.83	1.26
1:M:722:GLN:NE2	3:O:89:GLU:OE2	1.67	1.26
1:M:792:ALA:CB	3:O:42:THR:HG22	1.60	1.26
1:D:534:SER:O	4:9:351:THR:CA	1.81	1.26
1:G:755:HIS:ND1	1:G:779:ARG:NH1	1.83	1.26
1:G:838:ILE:CD1	2:H:54:MET:HE3	1.66	1.26
1:J:733:PRO:O	1:J:737:PHE:HD1	0.93	1.26
1:J:799:MET:SD	3:L:32:ASP:CG	2.15	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:538:GLU:O	4:V:349:LEU:HD11	1.34	1.25
1:G:753:VAL:HA	1:G:780:ASP:OD1	1.33	1.25
1:J:788:THR:O	3:L:42:THR:HG21	1.34	1.25
1:A:753:VAL:CG1	1:A:775:LEU:HG	1.65	1.25
1:D:733:PRO:O	1:D:737:PHE:HD1	0.93	1.25
1:A:538:GLU:O	4:8:349:LEU:CD1	1.78	1.25
1:A:538:GLU:O	4:8:349:LEU:HD11	1.35	1.25
1:D:791:GLN:OE1	3:F:116:GLU:HG3	1.29	1.25
2:H:117:LEU:CD1	2:H:147:ASN:CG	2.05	1.25
1:J:534:SER:O	4:W:351:THR:CA	1.82	1.25
1:M:733:PRO:O	1:M:737:PHE:HD1	0.93	1.25
1:M:819:ASN:HA	2:N:90:GLY:O	1.07	1.25
4:1:110:LEU:O	4:2:195:GLU:CA	1.84	1.25
4:1:110:LEU:O	4:2:195:GLU:HA	1.08	1.25
4:1:205:GLU:CG	4:Y:287:ILE:HB	1.53	1.25
4:2:64:ILE:HG21	4:Z:166:TYR:OH	1.32	1.25
4:2:288:ASP:OD2	4:4:203:THR:HG21	1.32	1.25
2:E:117:LEU:CD1	2:E:147:ASN:CG	2.05	1.25
1:G:503:TYR:CZ	1:G:711:PHE:CD2	2.24	1.25
1:G:503:TYR:CZ	1:G:711:PHE:HD2	1.55	1.25
1:G:817:GLN:CD	2:H:127:ARG:HD2	1.57	1.25
1:M:630:ALA:O	4:Z:25:ASP:OD2	1.52	1.25
1:M:786:ILE:CG2	1:M:787:ILE:N	1.90	1.25
1:P:817:GLN:CG	2:Q:127:ARG:HD2	1.64	1.25
4:2:287:ILE:CB	4:4:203:THR:N	2.00	1.25
1:G:503:TYR:CE1	1:G:711:PHE:CD2	2.25	1.25
1:J:538:GLU:C	4:W:349:LEU:HD12	1.48	1.25
2:N:117:LEU:HD12	2:N:147:ASN:OD1	1.32	1.25
4:2:42:GLY:HA3	4:Z:167:GLU:OE1	1.33	1.25
1:A:630:ALA:O	4:8:25:ASP:OD2	1.53	1.24
1:A:757:GLN:OE1	1:A:771:LEU:CD1	1.81	1.24
1:D:721:LYS:CG	1:D:736:GLN:OE1	1.83	1.24
1:G:557:GLU:CA	4:X:48:GLY:N	1.99	1.24
1:P:548:THR:HG21	4:3:49:GLN:CB	1.48	1.24
4:1:287:ILE:CG2	4:3:203:THR:HG22	1.65	1.24
2:K:117:LEU:CD1	2:K:147:ASN:CG	2.05	1.24
1:M:641:LYS:CD	1:M:647:GLN:NE2	1.99	1.24
1:P:735:GLY:O	1:P:743:ALA:HB2	1.29	1.24
1:P:783:LEU:O	1:P:786:ILE:HG13	1.10	1.24
4:4:288:ASP:CG	4:6:203:THR:HG23	1.47	1.24
1:D:797:PHE:CE1	3:F:146:ILE:HG23	1.72	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:117:LEU:CD1	2:N:147:ASN:CG	2.04	1.24
1:P:646:PHE:CE2	1:P:652:LEU:HD11	1.73	1.24
4:2:203:THR:CG2	4:Z:287:ILE:HG21	1.67	1.24
4:9:322:PRO:CB	4:W:244:ASP:OD2	1.86	1.24
4:X:291:LYS:CG	4:Z:246:GLN:H	1.50	1.24
1:A:502:GLU:CA	1:A:761:GLY:HA3	1.66	1.24
1:A:733:PRO:O	1:A:737:PHE:HD1	0.92	1.24
1:A:735:GLY:O	1:A:743:ALA:HB2	1.29	1.24
1:D:646:PHE:CE2	1:D:652:LEU:HD11	1.73	1.24
1:G:641:LYS:CD	1:G:647:GLN:NE2	1.99	1.24
1:G:783:LEU:O	1:G:787:ILE:N	1.71	1.24
1:J:756:THR:HG22	1:J:776:GLU:CD	1.57	1.24
1:M:641:LYS:CG	1:M:647:GLN:CG	2.16	1.24
1:G:757:GLN:HG2	1:G:776:GLU:OE2	1.16	1.24
1:J:641:LYS:CD	1:J:647:GLN:NE2	1.99	1.24
1:J:756:THR:HG22	1:J:776:GLU:CB	1.68	1.23
1:M:721:LYS:CG	1:M:736:GLN:OE1	1.83	1.23
1:M:783:LEU:O	1:M:786:ILE:HG13	1.33	1.23
1:P:538:GLU:C	4:1:349:LEU:HD12	1.48	1.23
1:P:821:ARG:NH2	2:Q:127:ARG:CG	2.01	1.23
4:1:245:GLY:N	4:Y:291:LYS:HG3	1.11	1.23
4:V:324:THR:HG21	4:X:247:VAL:N	1.49	1.23
1:A:646:PHE:CE2	1:A:652:LEU:HD11	1.73	1.23
1:D:641:LYS:CG	1:D:647:GLN:CG	2.15	1.23
1:D:721:LYS:HG2	1:D:736:GLN:OE1	1.29	1.23
1:J:646:PHE:CE2	1:J:652:LEU:HD11	1.73	1.23
1:A:797:PHE:CD1	3:C:146:ILE:O	1.92	1.23
1:A:831:TRP:CD1	2:B:51:PHE:CZ	2.26	1.23
2:B:117:LEU:CD1	2:B:147:ASN:CG	2.05	1.23
1:D:721:LYS:HG3	1:D:736:GLN:CD	1.54	1.23
2:E:121:LEU:C	2:E:128:PHE:CB	2.07	1.23
1:J:629:GLU:CA	1:J:643:GLY:O	1.87	1.23
4:V:325:MET:SD	4:X:244:ASP:HB2	1.77	1.23
4:X:287:ILE:CB	4:Z:201:VAL:HG23	1.55	1.23
1:G:28:GLN:HB3	1:G:723:ARG:CZ	1.68	1.23
1:G:215:GLN:N	1:G:340:ILE:CG1	2.02	1.23
1:M:646:PHE:CE2	1:M:652:LEU:HD11	1.73	1.23
1:P:831:TRP:CH2	2:Q:47:LEU:CD2	2.21	1.23
4:X:287:ILE:HG21	4:Z:199:SER:O	1.38	1.23
1:G:818:TYR:CE1	2:H:127:ARG:NH2	2.04	1.23
1:J:215:GLN:N	1:J:340:ILE:CG1	2.02	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:534:SER:O	4:W:351:THR:CB	1.87	1.23
1:P:215:GLN:N	1:P:340:ILE:CG1	2.02	1.23
1:P:629:GLU:CA	1:P:643:GLY:O	1.87	1.23
1:P:630:ALA:O	4:1:25:ASP:OD2	1.52	1.23
1:P:795:ARG:HD3	3:R:43:ASN:OD1	1.35	1.23
4:8:322:PRO:CB	4:V:244:ASP:OD2	1.86	1.23
1:G:538:GLU:C	4:V:349:LEU:HD12	1.48	1.22
1:G:557:GLU:HA	4:X:48:GLY:N	1.13	1.22
1:G:791:GLN:HE22	3:I:115:GLY:CA	1.50	1.22
1:D:831:TRP:CH2	2:E:34:ILE:HG23	1.75	1.22
1:G:818:TYR:OH	2:H:127:ARG:NH2	1.65	1.22
1:J:721:LYS:HG3	1:J:736:GLN:CD	1.54	1.22
1:M:215:GLN:N	1:M:340:ILE:CG1	2.02	1.22
1:M:829:TRP:CZ2	2:N:87:LYS:HE2	1.72	1.22
1:P:534:SER:O	4:1:351:THR:CB	1.87	1.22
1:P:641:LYS:CD	1:P:647:GLN:NE2	1.99	1.22
1:P:723:ARG:CZ	1:P:779:ARG:CA	2.17	1.22
2:Q:121:LEU:C	2:Q:128:PHE:CB	2.07	1.22
4:3:322:PRO:HB3	4:5:244:ASP:OD2	1.39	1.22
1:A:215:GLN:N	1:A:340:ILE:CG1	2.02	1.22
1:G:503:TYR:OH	1:G:711:PHE:HD2	0.88	1.22
1:G:755:HIS:N	1:G:779:ARG:CZ	2.02	1.22
1:J:795:ARG:NE	3:L:116:GLU:OE2	1.72	1.22
1:P:733:PRO:O	1:P:737:PHE:HD1	0.92	1.22
4:X:291:LYS:CD	4:Z:246:GLN:HB2	1.70	1.22
1:D:534:SER:O	4:9:351:THR:CB	1.87	1.22
1:D:629:GLU:CA	1:D:643:GLY:O	1.87	1.22
2:E:144:VAL:CG1	2:E:153:ILE:HD11	1.65	1.22
4:W:324:THR:CG2	4:Y:247:VAL:N	1.89	1.22
1:A:149:GLN:CD	1:A:716:LEU:HD23	1.59	1.22
1:G:557:GLU:CB	4:X:46:GLY:O	1.86	1.22
1:M:534:SER:O	4:Z:351:THR:CB	1.87	1.22
1:A:791:GLN:OE1	3:C:116:GLU:HG3	1.39	1.21
1:D:215:GLN:N	1:D:340:ILE:CG1	2.02	1.21
1:D:797:PHE:HE2	3:F:126:LEU:CD2	1.53	1.21
2:K:121:LEU:C	2:K:128:PHE:CB	2.07	1.21
1:M:817:GLN:CG	2:N:127:ARG:HD2	1.68	1.21
1:P:641:LYS:CG	1:P:647:GLN:CG	2.16	1.21
1:P:797:PHE:CZ	3:R:146:ILE:HD12	1.62	1.21
1:G:534:SER:O	4:V:351:THR:CB	1.88	1.21
1:G:629:GLU:CA	1:G:643:GLY:O	1.87	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:646:PHE:CE2	1:G:652:LEU:HD11	1.73	1.21
1:G:795:ARG:NH2	3:I:116:GLU:HG2	1.55	1.21
1:M:629:GLU:CA	1:M:643:GLY:O	1.87	1.21
1:M:797:PHE:CZ	3:O:146:ILE:HG23	1.75	1.21
1:P:829:TRP:CZ2	2:Q:87:LYS:HE2	1.74	1.21
2:Q:117:LEU:CD1	2:Q:147:ASN:CG	2.04	1.21
4:2:288:ASP:CG	4:4:203:THR:HG21	1.59	1.21
4:7:322:PRO:CB	4:9:244:ASP:OD2	1.86	1.21
1:G:567:LYS:NZ	4:X:92:ASN:ND2	1.86	1.21
1:J:641:LYS:CG	1:J:647:GLN:HG3	1.71	1.21
1:P:723:ARG:NE	1:P:779:ARG:CA	2.03	1.21
1:A:534:SER:O	4:8:351:THR:CB	1.87	1.21
1:D:641:LYS:CD	1:D:647:GLN:NE2	1.99	1.21
1:D:797:PHE:CE1	3:F:146:ILE:HA	1.75	1.21
1:G:753:VAL:O	1:G:779:ARG:NH1	1.73	1.21
2:H:121:LEU:C	2:H:128:PHE:CB	2.07	1.21
1:G:797:PHE:CE1	3:I:146:ILE:CD1	2.03	1.21
1:M:805:ALA:O	1:M:809:ARG:N	1.72	1.21
4:8:322:PRO:HB2	4:V:244:ASP:OD2	1.39	1.21
2:B:144:VAL:CG1	2:B:153:ILE:HD11	1.64	1.20
2:H:117:LEU:CD1	2:H:147:ASN:CB	2.19	1.20
1:J:641:LYS:CG	1:J:647:GLN:CG	2.16	1.20
1:A:149:GLN:HE21	1:A:718:ALA:CB	1.51	1.20
1:A:149:GLN:HG3	1:A:719:ASP:OD1	1.34	1.20
1:D:630:ALA:O	4:9:25:ASP:OD2	1.52	1.20
1:D:767:PHE:C	1:D:771:LEU:HD11	1.39	1.20
1:J:557:GLU:HA	4:Y:47:MET:C	1.62	1.20
1:J:630:ALA:O	4:W:25:ASP:OD2	1.52	1.20
2:N:121:LEU:C	2:N:128:PHE:CB	2.07	1.20
1:A:641:LYS:CD	1:A:647:GLN:NE2	1.99	1.20
2:B:117:LEU:HD12	2:B:147:ASN:OD1	1.32	1.20
2:B:121:LEU:C	2:B:128:PHE:CB	2.07	1.20
1:G:641:LYS:CG	1:G:647:GLN:HG3	1.71	1.20
1:G:813:ILE:HG23	2:H:128:PHE:CZ	1.75	1.20
1:M:786:ILE:HG22	1:M:787:ILE:N	1.12	1.20
4:2:287:ILE:CG1	4:4:202:THR:CA	2.19	1.20
4:X:291:LYS:HG3	4:Z:245:GLY:N	1.55	1.20
1:A:149:GLN:CB	1:A:718:ALA:HB3	1.72	1.20
1:D:726:VAL:HG12	1:D:785:GLU:CG	1.70	1.20
1:G:538:GLU:OE2	4:V:355:MET:CE	1.90	1.20
1:J:736:GLN:N	1:J:743:ALA:CB	2.05	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:819:ASN:HA	2:K:90:GLY:O	1.02	1.20
2:K:117:LEU:CD1	2:K:147:ASN:CB	2.19	1.20
1:M:548:THR:CB	4:2:48:GLY:HA3	1.56	1.20
1:M:821:ARG:NH2	2:N:127:ARG:CG	2.05	1.20
1:P:538:GLU:OE2	4:1:355:MET:CE	1.90	1.20
2:B:117:LEU:CD1	2:B:147:ASN:CB	2.19	1.20
1:D:769:ALA:CA	1:D:771:LEU:HA	1.08	1.20
1:J:829:TRP:CZ2	2:K:87:LYS:HE2	1.75	1.20
1:M:795:ARG:NE	3:O:116:GLU:OE2	1.75	1.20
1:P:641:LYS:CG	1:P:647:GLN:HG3	1.71	1.20
2:Q:117:LEU:CD1	2:Q:147:ASN:CB	2.19	1.20
1:A:735:GLY:O	1:A:743:ALA:CB	1.91	1.19
1:M:538:GLU:OE2	4:Z:355:MET:CE	1.90	1.19
1:P:709:LYS:N	1:P:710:GLY:N	1.89	1.19
1:A:629:GLU:CA	1:A:643:GLY:O	1.87	1.19
1:D:538:GLU:OE2	4:9:355:MET:CE	1.90	1.19
1:G:28:GLN:CD	1:G:723:ARG:HH12	1.43	1.19
1:J:795:ARG:NH2	3:L:116:GLU:OE1	1.75	1.19
1:J:818:TYR:CZ	2:K:127:ARG:NH2	1.94	1.19
1:G:819:ASN:CG	2:H:92:ASP:CB	2.07	1.19
2:K:144:VAL:CG1	2:K:153:ILE:HD11	1.65	1.19
1:A:557:GLU:H	4:V:48:GLY:CA	1.55	1.19
1:D:813:ILE:HD13	2:E:128:PHE:HE1	1.07	1.19
1:J:538:GLU:OE2	4:W:355:MET:CE	1.90	1.19
1:J:817:GLN:HG2	2:K:127:ARG:CB	1.71	1.19
1:J:819:ASN:CA	2:K:90:GLY:O	1.91	1.19
1:P:735:GLY:O	1:P:743:ALA:CB	1.91	1.19
1:P:739:ASP:HB3	1:P:742:LYS:HB3	1.21	1.19
4:9:322:PRO:HB2	4:W:244:ASP:OD2	1.39	1.19
1:D:736:GLN:N	1:D:743:ALA:CB	2.04	1.19
1:D:800:ARG:NH2	3:F:40:ASN:CG	1.93	1.19
2:E:117:LEU:CD1	2:E:147:ASN:CB	2.19	1.19
1:J:530:MET:HE2	4:W:354:GLN:CG	1.71	1.19
1:M:797:PHE:CE1	3:O:146:ILE:CA	2.25	1.19
2:Q:144:VAL:CG1	2:Q:153:ILE:HD11	1.64	1.19
1:A:506:GLU:HG2	1:A:760:PHE:N	1.06	1.18
1:A:538:GLU:C	4:8:349:LEU:HD12	1.48	1.18
1:G:28:GLN:CB	1:G:723:ARG:HH22	1.54	1.18
1:G:97:LEU:HD23	1:G:712:PRO:CB	1.73	1.18
1:M:721:LYS:HG3	1:M:736:GLN:CD	1.54	1.18
1:M:831:TRP:CH2	2:N:47:LEU:CD2	2.26	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:288:ASP:CG	4:4:203:THR:CG2	2.09	1.18
4:7:322:PRO:HB2	4:9:244:ASP:OD2	1.39	1.18
1:A:538:GLU:HA	4:8:349:LEU:CD1	1.54	1.18
1:D:639:GLY:CA	4:9:345:ILE:HA	1.73	1.18
1:G:735:GLY:O	1:G:743:ALA:CB	1.91	1.18
1:J:557:GLU:HA	4:Y:47:MET:CA	1.47	1.18
1:J:792:ALA:CB	3:L:42:THR:HG22	1.54	1.18
1:M:538:GLU:C	4:Z:349:LEU:HD12	1.48	1.18
1:M:641:LYS:CG	1:M:647:GLN:HG3	1.71	1.18
1:M:838:ILE:HD11	2:N:54:MET:HE3	1.25	1.18
1:P:641:LYS:CB	1:P:647:GLN:NE2	2.07	1.18
1:P:724:TYR:CZ	1:P:775:LEU:CG	2.26	1.18
4:2:203:THR:CG2	4:Z:287:ILE:CG2	2.20	1.18
1:A:641:LYS:CB	1:A:647:GLN:NE2	2.07	1.18
1:D:557:GLU:H	4:W:48:GLY:CA	1.56	1.18
1:G:641:LYS:CG	1:G:647:GLN:CG	2.16	1.18
2:N:117:LEU:CD1	2:N:147:ASN:CB	2.19	1.18
1:P:724:TYR:OH	1:P:775:LEU:HB3	1.01	1.18
1:A:506:GLU:HB2	1:A:760:PHE:O	1.03	1.18
1:A:641:LYS:CG	1:A:647:GLN:HG3	1.71	1.18
1:A:736:GLN:N	1:A:743:ALA:CB	2.05	1.18
1:G:754:ASP:HB3	1:G:776:GLU:OE2	1.00	1.18
1:J:84:MLY:CH1	1:J:720:PHE:CD1	2.26	1.18
1:J:641:LYS:CB	1:J:647:GLN:NE2	2.07	1.18
1:J:739:ASP:HB3	1:J:742:LYS:HB3	1.21	1.18
1:M:538:GLU:HA	4:Z:349:LEU:CD1	1.55	1.18
1:P:721:LYS:HA	1:P:736:GLN:NE2	1.58	1.18
1:A:831:TRP:NE1	2:B:51:PHE:CE1	2.12	1.18
1:A:836:PHE:CE1	2:B:159:HIS:CB	2.26	1.18
1:G:538:GLU:HA	4:V:349:LEU:CD1	1.55	1.18
1:J:721:LYS:HA	1:J:736:GLN:NE2	1.59	1.18
4:8:290:ARG:NH2	4:V:202:THR:HG23	1.59	1.18
1:A:538:GLU:OE2	4:8:355:MET:CE	1.91	1.17
1:D:538:GLU:C	4:9:349:LEU:HD11	1.54	1.17
1:D:641:LYS:HD2	1:D:647:GLN:NE2	1.59	1.17
1:D:721:LYS:HA	1:D:736:GLN:NE2	1.58	1.17
1:M:641:LYS:CB	1:M:647:GLN:NE2	2.07	1.17
1:P:789:ALA:HB1	3:R:81:GLN:HG2	1.21	1.17
1:P:819:ASN:CA	2:Q:90:GLY:O	1.92	1.17
1:D:641:LYS:CB	1:D:647:GLN:NE2	2.07	1.17
1:D:800:ARG:NH2	3:F:40:ASN:HD21	1.27	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:MLY:HG3	4:X:45:VAL:O	1.01	1.17
1:J:754:ASP:OD1	1:J:780:ASP:HB2	1.23	1.17
1:D:732:ILE:CD1	1:D:782:MLY:HH11	1.73	1.17
1:D:795:ARG:CB	3:F:35:ARG:HH12	1.50	1.17
1:G:93:MET:SD	1:G:715:VAL:HA	1.82	1.17
1:M:641:LYS:CE	4:Z:348:SER:O	1.93	1.17
1:G:641:LYS:HG3	1:G:647:GLN:HG3	1.20	1.17
1:G:795:ARG:HA	3:I:118:MET:CE	1.74	1.17
1:J:641:LYS:HD2	1:J:647:GLN:NE2	1.59	1.17
1:M:735:GLY:O	1:M:743:ALA:CB	1.91	1.17
1:P:767:PHE:HB3	1:P:772:LEU:HD22	1.22	1.17
4:1:245:GLY:N	4:Y:291:LYS:CG	2.00	1.17
1:A:641:LYS:CE	4:8:348:SER:O	1.93	1.17
1:A:798:LEU:HD11	3:C:126:LEU:CD1	1.74	1.17
1:D:641:LYS:CE	4:9:348:SER:O	1.93	1.17
1:G:641:LYS:CE	4:V:348:SER:O	1.93	1.17
1:G:641:LYS:HD2	1:G:647:GLN:NE2	1.58	1.17
1:G:642:LYS:CG	4:V:23:GLY:N	2.08	1.17
1:G:721:LYS:HA	1:G:736:GLN:NE2	1.58	1.17
1:J:834:LEU:CD1	2:K:51:PHE:HE1	1.58	1.17
1:M:721:LYS:HA	1:M:736:GLN:NE2	1.59	1.17
1:M:797:PHE:CE1	3:O:146:ILE:HA	1.78	1.17
1:M:805:ALA:HA	1:M:808:GLU:HB2	1.19	1.17
1:A:640:LYS:HB3	1:A:645:SER:OG	1.46	1.16
1:A:641:LYS:CG	1:A:647:GLN:CG	2.16	1.16
1:A:836:PHE:CZ	2:B:160:GLY:N	2.14	1.16
1:D:642:LYS:CG	4:9:23:GLY:N	2.08	1.16
1:G:556:ASP:CG	4:X:47:MET:HE3	1.62	1.16
1:J:817:GLN:HG2	2:K:127:ARG:HB2	1.24	1.16
1:A:215:GLN:HA	1:A:340:ILE:CG2	1.76	1.16
1:D:530:MET:HE2	4:9:354:GLN:HG2	1.23	1.16
1:D:641:LYS:CG	1:D:647:GLN:HG3	1.70	1.16
1:D:831:TRP:CZ2	2:E:47:LEU:CD2	2.29	1.16
1:D:834:LEU:HD21	2:E:54:MET:CE	1.74	1.16
2:E:117:LEU:CD1	2:E:147:ASN:HB3	1.75	1.16
1:J:639:GLY:CA	4:W:345:ILE:HA	1.73	1.16
1:M:783:LEU:CG	1:M:786:ILE:HD11	1.73	1.16
1:M:788:THR:O	3:O:42:THR:HG21	1.44	1.16
2:N:144:VAL:CG1	2:N:153:ILE:HD11	1.65	1.16
1:P:639:GLY:HA2	4:1:345:ILE:HA	1.26	1.16
1:P:640:LYS:HB3	1:P:645:SER:OG	1.45	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LYS:HA	1:A:736:GLN:NE2	1.58	1.16
1:A:791:GLN:HE22	3:C:116:GLU:N	1.44	1.16
1:D:538:GLU:C	4:9:349:LEU:HD12	1.48	1.16
1:D:767:PHE:O	1:D:771:LEU:CD1	1.92	1.16
1:G:641:LYS:CB	1:G:647:GLN:NE2	2.07	1.16
1:J:817:GLN:CD	2:K:127:ARG:HD2	1.65	1.16
1:M:530:MET:HE2	4:Z:354:GLN:HG2	1.22	1.16
1:M:798:LEU:HD11	3:O:126:LEU:HD11	1.20	1.16
4:9:290:ARG:NH2	4:W:202:THR:HG23	1.59	1.16
1:D:640:LYS:HB3	1:D:645:SER:OG	1.46	1.16
1:D:800:ARG:HH22	3:F:40:ASN:ND2	1.31	1.16
1:G:215:GLN:HA	1:G:340:ILE:CG2	1.76	1.16
1:J:640:LYS:HB3	1:J:645:SER:OG	1.45	1.16
1:J:641:LYS:CE	4:W:348:SER:O	1.93	1.16
2:K:117:LEU:HD12	2:K:147:ASN:OD1	1.32	1.16
1:M:215:GLN:HA	1:M:340:ILE:CG2	1.76	1.16
1:P:641:LYS:HD2	1:P:647:GLN:NE2	1.59	1.16
2:Q:117:LEU:HD12	2:Q:147:ASN:OD1	1.32	1.16
1:G:553:MLY:HE2	4:X:45:VAL:CB	1.75	1.16
1:G:553:MLY:CE	4:X:45:VAL:CB	2.22	1.16
1:G:640:LYS:HB3	1:G:645:SER:OG	1.46	1.16
1:G:754:ASP:HB2	1:G:776:GLU:HA	1.19	1.16
1:G:819:ASN:ND2	2:H:92:ASP:CB	2.08	1.16
1:J:201:ALA:O	1:J:202:SER:CB	1.92	1.16
1:J:735:GLY:O	1:J:743:ALA:CB	1.91	1.16
1:J:797:PHE:CD1	3:L:146:ILE:CG2	2.12	1.16
1:M:642:LYS:CG	4:Z:23:GLY:N	2.08	1.16
1:M:709:LYS:N	1:M:710:GLY:N	1.94	1.16
1:P:215:GLN:HA	1:P:340:ILE:CG2	1.75	1.16
4:1:199:SER:O	4:Y:287:ILE:HG21	1.46	1.16
1:G:149:GLN:HB3	1:G:716:LEU:HD21	1.16	1.15
1:G:506:GLU:CD	1:G:760:PHE:O	1.82	1.15
1:G:754:ASP:HB2	1:G:776:GLU:CD	1.61	1.15
1:J:642:LYS:CG	4:W:23:GLY:N	2.08	1.15
1:M:831:TRP:CH2	2:N:47:LEU:HD21	1.82	1.15
1:D:727:LEU:HG	1:D:782:MLY:HG3	1.17	1.15
1:M:201:ALA:O	1:M:202:SER:CB	1.92	1.15
2:N:117:LEU:CD1	2:N:147:ASN:HB3	1.76	1.15
1:P:642:LYS:CG	4:1:23:GLY:N	2.08	1.15
4:W:325:MET:SD	4:Y:244:ASP:CB	2.34	1.15
1:A:791:GLN:NE2	3:C:116:GLU:N	1.93	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:735:GLY:O	1:D:743:ALA:CB	1.91	1.15
1:G:649:VAL:HA	1:G:649:VAL:CG2	1.76	1.15
1:M:640:LYS:HB3	1:M:645:SER:OG	1.45	1.15
1:M:795:ARG:HH21	3:O:116:GLU:CG	1.59	1.15
1:P:542:PHE:HA	4:1:143:TYR:CE1	1.82	1.15
1:A:218:LEU:HB2	1:A:221:GLN:HG3	1.17	1.15
1:A:542:PHE:HA	4:8:143:TYR:CE1	1.82	1.15
1:A:639:GLY:HA2	4:8:345:ILE:HA	1.26	1.15
1:A:709:LYS:C	1:A:710:GLY:HA3	1.64	1.15
1:D:542:PHE:HA	4:9:143:TYR:CE1	1.82	1.15
1:D:795:ARG:NH2	3:F:116:GLU:CD	1.98	1.15
1:D:831:TRP:CZ3	2:E:34:ILE:CG2	2.30	1.15
2:E:112:ILE:O	2:E:147:ASN:O	1.65	1.15
1:G:215:GLN:N	1:G:340:ILE:HG12	1.19	1.15
1:G:639:GLY:HA3	4:V:344:SER:O	1.46	1.15
1:G:795:ARG:HG2	3:I:118:MET:CE	1.75	1.15
1:M:95:THR:HG21	1:M:773:GLY:CA	1.75	1.15
1:M:542:PHE:HA	4:Z:143:TYR:CE1	1.82	1.15
1:P:641:LYS:CE	4:1:348:SER:O	1.93	1.15
2:Q:117:LEU:CD1	2:Q:147:ASN:HB3	1.75	1.15
4:V:325:MET:SD	4:X:244:ASP:CB	2.33	1.15
1:A:97:LEU:CD2	1:A:712:PRO:HB3	1.75	1.15
1:A:649:VAL:HA	1:A:649:VAL:CG2	1.76	1.15
1:A:707:CYS:HA	1:A:714:ARG:CZ	1.77	1.15
1:D:538:GLU:O	4:9:349:LEU:HD11	1.35	1.15
1:D:724:TYR:HA	1:D:782:MLY:CD	1.76	1.15
1:D:831:TRP:CZ2	2:E:47:LEU:HD23	1.80	1.15
1:G:218:LEU:HB2	1:G:221:GLN:HG3	1.17	1.15
1:G:831:TRP:HE1	2:H:67:MET:HB3	1.03	1.15
1:J:542:PHE:HA	4:W:143:TYR:CE1	1.82	1.15
1:M:538:GLU:OE2	4:Z:355:MET:HE1	1.44	1.15
1:M:635:GLY:HA2	4:Z:334:GLU:HG2	1.16	1.15
1:M:817:GLN:HG2	2:N:127:ARG:HB2	1.25	1.15
1:A:795:ARG:CD	3:C:35:ARG:HH12	1.60	1.14
1:A:823:PHE:CE1	2:B:160:GLY:CA	2.29	1.14
2:B:111:SER:CA	2:B:148:VAL:O	1.95	1.14
1:D:215:GLN:HA	1:D:340:ILE:CG2	1.75	1.14
1:D:649:VAL:HA	1:D:649:VAL:CG2	1.76	1.14
1:G:508:ILE:CD1	1:G:759:ALA:HB2	1.76	1.14
1:G:542:PHE:HA	4:V:143:TYR:CE1	1.82	1.14
2:H:117:LEU:HD12	2:H:147:ASN:OD1	1.32	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:215:GLN:HA	1:J:340:ILE:CG2	1.75	1.14
1:J:505:MLY:CD	1:J:762:HIS:CE1	2.27	1.14
1:J:639:GLY:HA3	4:W:344:SER:O	1.46	1.14
1:P:831:TRP:HH2	2:Q:47:LEU:CD2	1.55	1.14
1:A:215:GLN:N	1:A:340:ILE:HG12	1.20	1.14
1:A:639:GLY:HA3	4:8:344:SER:O	1.47	1.14
1:G:639:GLY:CA	4:V:345:ILE:HA	1.73	1.14
1:G:832:MET:SD	2:H:84:PHE:HE2	1.68	1.14
2:H:111:SER:CA	2:H:148:VAL:O	1.95	1.14
2:K:121:LEU:CA	2:K:128:PHE:HB3	1.77	1.14
1:M:538:GLU:C	4:Z:349:LEU:HD11	1.54	1.14
1:M:639:GLY:HA3	4:Z:344:SER:O	1.46	1.14
1:M:641:LYS:HD2	1:M:647:GLN:NE2	1.59	1.14
2:N:121:LEU:C	2:N:128:PHE:HB2	1.67	1.14
1:P:723:ARG:NH2	1:P:779:ARG:O	1.80	1.14
1:P:724:TYR:CE1	1:P:775:LEU:CG	2.29	1.14
1:A:800:ARG:NH2	3:C:40:ASN:CG	2.00	1.14
1:D:553:MLY:CE	4:W:45:VAL:HA	1.52	1.14
1:D:799:MET:SD	3:F:32:ASP:CA	2.36	1.14
2:E:111:SER:CA	2:E:148:VAL:O	1.95	1.14
1:G:503:TYR:CE1	1:G:711:PHE:CE2	2.34	1.14
1:G:553:MLY:CE	4:X:45:VAL:HG11	1.53	1.14
1:G:557:GLU:HB3	4:X:46:GLY:O	0.99	1.14
1:M:737:PHE:CZ	3:O:84:PHE:CE1	2.35	1.14
2:N:111:SER:CA	2:N:148:VAL:O	1.95	1.14
1:P:639:GLY:HA3	4:1:344:SER:O	1.46	1.14
4:7:290:ARG:NH2	4:9:202:THR:HG23	1.59	1.14
4:X:291:LYS:CG	4:Z:245:GLY:N	2.11	1.14
1:A:97:LEU:HD23	1:A:712:PRO:HB3	1.27	1.14
1:A:506:GLU:CG	1:A:760:PHE:H	1.53	1.14
1:A:641:LYS:HD2	1:A:647:GLN:NE2	1.59	1.14
1:A:642:LYS:CG	4:8:23:GLY:N	2.09	1.14
1:D:813:ILE:HD13	2:E:128:PHE:CE1	1.81	1.14
1:G:201:ALA:O	1:G:202:SER:HB3	1.35	1.14
1:J:820:VAL:HG11	2:K:136:MET:HE3	1.22	1.14
1:M:649:VAL:HA	1:M:649:VAL:CG2	1.76	1.14
1:M:818:TYR:CE1	2:N:127:ARG:CZ	2.28	1.14
1:P:819:ASN:CG	2:Q:92:ASP:CB	2.15	1.14
2:E:121:LEU:CA	2:E:128:PHE:HB3	1.77	1.14
1:J:649:VAL:HA	1:J:649:VAL:CG2	1.76	1.14
1:J:838:ILE:CD1	2:K:54:MET:CE	2.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:736:GLN:N	1:M:743:ALA:CB	2.05	1.14
2:N:112:ILE:O	2:N:147:ASN:O	1.65	1.14
1:P:538:GLU:O	4:1:349:LEU:HD11	1.35	1.14
1:P:639:GLY:CA	4:1:345:ILE:HA	1.73	1.14
1:P:641:LYS:NZ	4:1:348:SER:O	1.80	1.14
1:P:649:VAL:CG2	1:P:649:VAL:HA	1.76	1.14
1:P:713:SER:CB	1:P:772:LEU:HD23	1.77	1.14
1:P:786:ILE:CG2	1:P:787:ILE:H	1.50	1.14
1:A:641:LYS:NZ	4:8:348:SER:O	1.80	1.13
1:D:814:PHE:HA	2:E:127:ARG:NH1	1.51	1.13
1:G:505:MLY:HD2	1:G:762:HIS:NE2	1.64	1.13
1:G:821:ARG:HH22	2:H:127:ARG:HG2	0.99	1.13
2:H:121:LEU:CA	2:H:128:PHE:HB3	1.77	1.13
1:J:541:MET:C	4:W:143:TYR:OH	1.87	1.13
1:J:641:LYS:NZ	4:W:348:SER:O	1.80	1.13
2:K:111:SER:CA	2:K:148:VAL:O	1.95	1.13
1:M:797:PHE:CE1	3:O:146:ILE:HG23	1.82	1.13
2:N:121:LEU:CA	2:N:128:PHE:HB3	1.77	1.13
1:P:541:MET:C	4:1:143:TYR:OH	1.87	1.13
1:A:639:GLY:CA	4:8:345:ILE:HA	1.74	1.13
1:A:799:MET:SD	3:C:32:ASP:CA	2.36	1.13
1:A:836:PHE:HE1	2:B:159:HIS:CB	1.59	1.13
1:D:218:LEU:HB2	1:D:221:GLN:HG3	1.17	1.13
1:D:641:LYS:NZ	4:9:348:SER:O	1.80	1.13
1:J:218:LEU:HB2	1:J:221:GLN:HG3	1.17	1.13
1:P:819:ASN:HA	2:Q:90:GLY:O	0.99	1.13
1:A:599:ASN:OD1	1:A:649:VAL:CB	1.96	1.13
1:A:798:LEU:HD11	3:C:126:LEU:CD2	1.77	1.13
1:D:599:ASN:OD1	1:D:649:VAL:CB	1.96	1.13
1:G:769:ALA:CB	1:G:770:GLY:N	2.12	1.13
2:H:112:ILE:O	2:H:147:ASN:O	1.65	1.13
2:H:117:LEU:CD1	2:H:147:ASN:HB3	1.75	1.13
1:J:538:GLU:OE2	4:W:355:MET:HE1	1.44	1.13
2:K:117:LEU:CD1	2:K:147:ASN:HB3	1.76	1.13
1:M:541:MET:C	4:Z:143:TYR:OH	1.87	1.13
1:M:641:LYS:CE	1:M:647:GLN:OE1	1.97	1.13
1:P:530:MET:HE2	4:1:354:GLN:CG	1.78	1.13
1:A:795:ARG:HD3	3:C:43:ASN:OD1	1.40	1.13
1:A:800:ARG:NH2	3:C:40:ASN:OD1	1.81	1.13
1:D:641:LYS:CE	1:D:647:GLN:OE1	1.97	1.13
2:E:121:LEU:C	2:E:128:PHE:HB2	1.67	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:541:MET:C	4:V:143:TYR:OH	1.87	1.13
1:G:641:LYS:CE	1:G:647:GLN:OE1	1.97	1.13
1:G:641:LYS:NZ	4:V:348:SER:O	1.80	1.13
2:H:144:VAL:CG1	2:H:153:ILE:HD11	1.64	1.13
1:J:97:LEU:HD23	1:J:712:PRO:HB3	1.28	1.13
1:M:599:ASN:OD1	1:M:649:VAL:CB	1.96	1.13
1:P:538:GLU:C	4:1:349:LEU:HD11	1.54	1.13
1:P:797:PHE:CE1	3:R:146:ILE:CA	2.31	1.13
2:Q:111:SER:CA	2:Q:148:VAL:O	1.95	1.13
4:2:287:ILE:HG23	4:4:202:THR:OG1	1.48	1.13
1:A:739:ASP:HB3	1:A:742:LYS:HB3	1.21	1.12
1:D:635:GLY:HA2	4:9:334:GLU:HG2	1.16	1.13
1:G:505:MLY:CE	1:G:762:HIS:NE2	2.09	1.13
1:J:28:GLN:CB	1:J:723:ARG:NH2	2.10	1.13
1:J:817:GLN:CB	2:K:127:ARG:HD2	1.77	1.12
4:X:291:LYS:CB	4:Z:246:GLN:H	1.61	1.13
1:M:792:ALA:CB	3:O:42:THR:HG23	1.70	1.12
1:M:819:ASN:CG	2:N:92:ASP:CB	2.17	1.12
1:A:795:ARG:HD2	3:C:35:ARG:HH12	1.14	1.12
1:D:727:LEU:CG	1:D:782:MLY:HE2	1.77	1.12
1:D:727:LEU:CG	1:D:782:MLY:CG	2.27	1.12
3:I:48:LYS:C	3:I:52:ASN:ND2	2.03	1.12
1:J:834:LEU:CD1	2:K:51:PHE:CE1	2.30	1.12
1:M:739:ASP:HB3	1:M:742:LYS:HB3	1.21	1.12
3:O:48:LYS:C	3:O:52:ASN:ND2	2.03	1.12
1:P:218:LEU:HB2	1:P:221:GLN:HG3	1.17	1.12
1:P:599:ASN:OD1	1:P:649:VAL:CB	1.96	1.12
1:P:786:ILE:CB	1:P:787:ILE:N	2.12	1.12
4:2:42:GLY:CA	4:Z:167:GLU:OE1	1.96	1.12
4:3:290:ARG:NH2	4:5:202:THR:HG23	1.41	1.12
4:X:291:LYS:HG3	4:Z:246:GLN:N	1.62	1.12
1:A:541:MET:C	4:8:143:TYR:OH	1.87	1.12
1:A:641:LYS:CE	1:A:647:GLN:OE1	1.97	1.12
1:A:721:LYS:HG3	1:A:736:GLN:HG2	1.25	1.12
1:G:639:GLY:HA2	4:V:345:ILE:HA	1.26	1.12
1:J:599:ASN:OD1	1:J:649:VAL:CB	1.96	1.12
2:K:111:SER:CB	2:K:148:VAL:C	1.93	1.12
1:M:623:PHE:CG	1:M:623:PHE:CB	2.33	1.12
1:M:641:LYS:NZ	4:Z:348:SER:O	1.80	1.12
1:M:795:ARG:CZ	3:O:116:GLU:CD	2.17	1.12
1:P:641:LYS:HG3	1:P:647:GLN:HG3	1.21	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:LEU:CA	2:B:128:PHE:HB3	1.78	1.12
2:E:163:ALA:HA	2:K:21:GLU:HB3	1.30	1.12
1:G:623:PHE:CB	1:G:623:PHE:CG	2.33	1.12
1:J:538:GLU:O	4:W:349:LEU:HD11	1.35	1.12
1:J:623:PHE:CG	1:J:623:PHE:CB	2.33	1.12
1:J:756:THR:HG21	1:J:776:GLU:C	1.70	1.12
2:N:111:SER:HB3	2:N:148:VAL:O	1.50	1.12
1:P:623:PHE:CG	1:P:623:PHE:CB	2.33	1.12
1:P:641:LYS:HE3	1:P:647:GLN:OE1	1.50	1.12
2:B:117:LEU:CD1	2:B:147:ASN:HB3	1.76	1.12
1:D:201:ALA:O	1:D:202:SER:HB3	1.36	1.12
1:D:639:GLY:HA3	4:9:344:SER:O	1.46	1.12
1:D:721:LYS:HG3	1:D:736:GLN:HG2	1.25	1.12
1:G:599:ASN:OD1	1:G:649:VAL:CB	1.96	1.12
1:G:757:GLN:CG	1:G:776:GLU:OE2	1.96	1.12
2:Q:121:LEU:CA	2:Q:128:PHE:HB3	1.77	1.12
3:R:48:LYS:C	3:R:52:ASN:ND2	2.03	1.12
1:A:623:PHE:CB	1:A:623:PHE:CG	2.33	1.11
1:A:649:VAL:HG13	1:A:649:VAL:HG22	1.21	1.11
2:B:121:LEU:O	2:B:128:PHE:HB2	0.94	1.11
1:D:732:ILE:HD13	1:D:782:MLY:HH11	1.32	1.11
1:D:747:LEU:HD11	1:D:782:MLY:CH2	1.79	1.11
2:E:111:SER:CB	2:E:148:VAL:C	1.93	1.11
1:G:530:MET:CE	4:V:354:GLN:HG2	1.79	1.11
2:H:111:SER:HB3	2:H:148:VAL:O	1.49	1.11
1:J:641:LYS:HE3	1:J:647:GLN:OE1	1.50	1.11
3:L:48:LYS:C	3:L:52:ASN:ND2	2.03	1.11
1:A:530:MET:HE2	4:8:354:GLN:HG2	1.32	1.11
1:A:813:ILE:CG2	2:B:127:ARG:HD2	1.79	1.11
1:D:541:MET:C	4:9:143:TYR:OH	1.87	1.11
1:D:639:GLY:HA2	4:9:345:ILE:HA	1.26	1.11
1:G:201:ALA:O	1:G:202:SER:CB	1.92	1.11
1:G:538:GLU:OE2	4:V:355:MET:HE1	1.46	1.11
1:G:739:ASP:HB3	1:G:742:LYS:HB3	1.21	1.11
1:G:752:ASP:O	1:G:780:ASP:HA	1.48	1.11
1:J:84:MLY:HH21	1:J:720:PHE:HA	1.14	1.11
1:J:641:LYS:HG3	1:J:647:GLN:HG3	1.21	1.11
1:J:641:LYS:CE	1:J:647:GLN:OE1	1.97	1.11
1:M:218:LEU:HB2	1:M:221:GLN:HG3	1.17	1.11
1:M:506:GLU:O	1:M:762:HIS:CD2	2.03	1.11
1:M:767:PHE:HB3	1:M:772:LEU:CD2	1.75	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:24:LYS:CB	3:O:63:ILE:O	1.99	1.11
1:P:641:LYS:CE	1:P:647:GLN:OE1	1.97	1.11
1:P:649:VAL:O	1:P:649:VAL:HG12	0.94	1.11
2:Q:112:ILE:O	2:Q:147:ASN:O	1.65	1.11
4:Y:265:SER:OG	4:Z:39:ARG:NH2	1.83	1.11
1:G:28:GLN:OE1	1:G:723:ARG:NH1	1.83	1.11
1:G:641:LYS:CE	1:G:647:GLN:CD	2.18	1.11
1:J:635:GLY:HA2	4:W:334:GLU:HG2	1.16	1.11
1:M:95:THR:HG21	1:M:773:GLY:HA3	1.28	1.11
1:P:548:THR:HG23	4:3:49:GLN:HB2	1.21	1.11
1:P:723:ARG:NH2	1:P:779:ARG:CA	2.14	1.11
3:R:24:LYS:CB	3:R:63:ILE:O	1.99	1.11
4:7:290:ARG:CZ	4:9:202:THR:HG21	1.81	1.11
1:A:791:GLN:HE22	3:C:115:GLY:CA	1.63	1.11
1:D:649:VAL:O	1:D:649:VAL:HG12	0.94	1.11
1:D:724:TYR:CA	1:D:782:MLY:HD2	1.78	1.11
2:E:121:LEU:O	2:E:128:PHE:HB2	0.94	1.11
1:G:84:MLY:HH22	1:G:723:ARG:HB2	1.30	1.11
1:J:530:MET:HE2	4:W:354:GLN:HG2	1.12	1.11
1:J:649:VAL:O	1:J:649:VAL:HG12	0.94	1.11
1:J:734:GLU:O	1:J:738:MET:HG2	1.51	1.11
1:M:641:LYS:HG3	1:M:647:GLN:HG3	1.20	1.11
1:M:641:LYS:CE	1:M:647:GLN:CD	2.18	1.11
1:M:797:PHE:HZ	3:O:146:ILE:HD13	0.94	1.11
4:X:291:LYS:HD2	4:Z:246:GLN:CB	1.78	1.11
3:C:48:LYS:C	3:C:52:ASN:ND2	2.03	1.11
1:D:201:ALA:O	1:D:202:SER:CB	1.92	1.11
1:D:800:ARG:HH21	3:F:40:ASN:CG	1.51	1.11
1:D:818:TYR:CB	2:E:90:GLY:CA	2.11	1.11
3:F:48:LYS:C	3:F:52:ASN:ND2	2.03	1.11
1:G:506:GLU:OE2	1:G:760:PHE:HB2	1.51	1.11
1:G:649:VAL:O	1:G:649:VAL:HG12	0.94	1.11
2:K:121:LEU:C	2:K:128:PHE:HB2	1.67	1.11
1:M:817:GLN:HG2	2:N:127:ARG:CB	1.81	1.11
1:P:767:PHE:CG	1:P:772:LEU:CD1	2.33	1.11
2:Q:121:LEU:O	2:Q:128:PHE:HB2	0.94	1.11
1:A:502:GLU:CG	1:A:761:GLY:HA3	1.80	1.10
1:A:635:GLY:HA2	4:8:334:GLU:HG2	1.15	1.10
1:A:798:LEU:CD1	3:C:126:LEU:HD11	1.81	1.10
1:J:639:GLY:HA2	4:W:345:ILE:HA	1.26	1.10
1:J:799:MET:SD	3:L:32:ASP:OD2	2.09	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:112:ILE:O	2:K:147:ASN:O	1.65	1.10
2:K:121:LEU:O	2:K:128:PHE:HB2	0.94	1.10
1:M:530:MET:CE	4:Z:354:GLN:HG2	1.80	1.10
1:M:723:ARG:NH2	1:M:783:LEU:HD11	1.55	1.10
1:P:530:MET:CE	4:1:354:GLN:HG2	1.80	1.10
1:P:641:LYS:CE	1:P:647:GLN:CD	2.18	1.10
4:1:201:VAL:N	4:Y:287:ILE:HG12	1.50	1.10
4:2:63:GLY:HA3	4:Z:288:ASP:HB2	1.29	1.10
4:9:290:ARG:CZ	4:W:202:THR:HG21	1.81	1.10
4:X:291:LYS:HD2	4:Z:246:GLN:HB2	1.13	1.10
1:A:649:VAL:O	1:A:649:VAL:HG12	0.94	1.10
1:A:798:LEU:HD11	3:C:126:LEU:HD11	1.31	1.10
1:A:837:MLY:HH21	2:H:20:ASP:CB	1.78	1.10
1:D:641:LYS:CE	1:D:647:GLN:CD	2.18	1.10
1:D:795:ARG:CZ	3:F:116:GLU:CD	2.19	1.10
1:G:28:GLN:CD	1:G:723:ARG:NH1	2.05	1.10
1:G:553:MLY:CE	4:X:45:VAL:HG12	1.68	1.10
1:G:635:GLY:HA2	4:V:334:GLU:HG2	1.16	1.10
2:H:121:LEU:O	2:H:128:PHE:HB2	0.94	1.10
1:J:530:MET:CE	4:W:354:GLN:HG2	1.80	1.10
1:J:571:ALA:O	1:J:572:LYS:HG3	1.52	1.10
1:J:641:LYS:CE	1:J:647:GLN:CD	2.18	1.10
1:P:718:ALA:C	3:R:85:GLU:HG2	1.69	1.10
1:A:641:LYS:CE	1:A:647:GLN:CD	2.18	1.10
1:A:814:PHE:CA	2:B:127:ARG:HH12	1.51	1.10
2:B:112:ILE:O	2:B:147:ASN:O	1.65	1.10
2:B:117:LEU:HB2	2:B:147:ASN:CG	1.71	1.10
1:D:530:MET:CE	4:9:354:GLN:HG2	1.80	1.10
1:D:732:ILE:CD1	1:D:782:MLY:CH1	2.28	1.10
1:G:502:GLU:OE2	1:G:761:GLY:HA3	1.51	1.10
2:H:111:SER:CB	2:H:148:VAL:C	1.93	1.10
1:J:201:ALA:O	1:J:202:SER:HB3	1.35	1.10
1:J:838:ILE:HD11	2:K:54:MET:HE3	1.10	1.10
3:L:24:LYS:CB	3:L:63:ILE:O	1.99	1.10
1:P:571:ALA:O	1:P:572:LYS:HG3	1.52	1.10
1:P:795:ARG:CD	3:R:43:ASN:OD1	1.98	1.10
3:F:24:LYS:CB	3:F:63:ILE:O	1.99	1.10
1:G:149:GLN:HG2	1:G:716:LEU:HD11	1.27	1.10
1:G:708:ARG:HA	1:G:712:PRO:CG	1.80	1.10
1:G:796:GLY:HA2	3:I:35:ARG:HD3	1.26	1.10
1:M:649:VAL:O	1:M:649:VAL:HG12	0.94	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LYS:HG3	1:M:736:GLN:HG2	1.25	1.10
1:P:831:TRP:CH2	2:Q:47:LEU:HD21	1.82	1.10
1:A:202:SER:CA	1:A:207:LYS:HE2	1.82	1.10
1:A:553:MLY:CE	4:V:45:VAL:HA	1.52	1.10
1:D:202:SER:CA	1:D:207:LYS:HE2	1.82	1.10
1:G:734:GLU:O	1:G:738:MET:HG2	1.51	1.10
2:H:117:LEU:HB2	2:H:147:ASN:CG	1.70	1.10
1:M:201:ALA:O	1:M:202:SER:HB3	1.35	1.10
1:M:641:LYS:HE3	1:M:647:GLN:OE1	1.50	1.10
1:P:713:SER:HB2	1:P:772:LEU:HD23	1.30	1.10
1:P:789:ALA:HA	3:R:81:GLN:NE2	1.64	1.10
2:Q:117:LEU:HB2	2:Q:147:ASN:CG	1.70	1.10
4:2:64:ILE:HD13	4:Z:166:TYR:OH	1.50	1.10
1:A:823:PHE:HE1	2:B:160:GLY:CA	1.62	1.09
1:A:831:TRP:CZ3	2:B:34:ILE:HG12	1.87	1.09
1:A:831:TRP:CD1	2:B:51:PHE:CE1	2.39	1.09
1:D:623:PHE:CB	1:D:623:PHE:CG	2.33	1.09
1:G:202:SER:CA	1:G:207:LYS:HE2	1.82	1.09
1:G:831:TRP:CZ2	2:H:47:LEU:CD2	2.30	1.09
2:H:121:LEU:C	2:H:128:PHE:HB2	1.67	1.09
1:M:767:PHE:CB	1:M:772:LEU:HD21	1.73	1.09
1:P:530:MET:HE2	4:1:354:GLN:HG2	1.18	1.09
1:P:548:THR:HG21	4:3:49:GLN:CA	1.82	1.09
1:P:635:GLY:HA2	4:1:334:GLU:HG2	1.16	1.09
4:4:322:PRO:HB3	4:6:244:ASP:CG	1.72	1.09
4:8:290:ARG:CZ	4:V:202:THR:HG21	1.81	1.09
1:A:734:GLU:O	1:A:738:MET:HG2	1.51	1.09
1:A:795:ARG:NH2	3:C:116:GLU:CG	2.15	1.09
2:B:121:LEU:C	2:B:128:PHE:HB2	1.67	1.09
3:C:24:LYS:CB	3:C:63:ILE:O	1.99	1.09
1:G:530:MET:HE2	4:V:354:GLN:HG2	1.29	1.09
1:J:817:GLN:HB3	2:K:127:ARG:CD	1.81	1.09
1:M:737:PHE:CZ	3:O:85:GLU:OE1	2.03	1.09
1:M:806:MET:C	1:M:807:VAL:CA	2.20	1.09
1:M:819:ASN:CA	2:N:90:GLY:O	2.00	1.09
1:P:202:SER:CA	1:P:207:LYS:HE2	1.82	1.09
4:2:64:ILE:CG2	4:Z:166:TYR:CZ	2.35	1.09
4:X:287:ILE:CB	4:Z:201:VAL:HG22	1.66	1.09
1:A:95:THR:OG1	1:A:769:ALA:C	1.91	1.09
1:A:149:GLN:OE1	1:A:716:LEU:HD23	0.93	1.09
1:A:201:ALA:O	1:A:202:SER:HB3	1.35	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:502:GLU:HA	1:A:761:GLY:HA3	1.21	1.09
1:A:530:MET:CE	4:8:354:GLN:HG2	1.80	1.09
1:D:838:ILE:HD12	2:E:54:MET:SD	1.91	1.09
2:E:117:LEU:HB2	2:E:147:ASN:CG	1.70	1.09
1:J:710:GLY:HA2	1:J:772:LEU:HD22	1.10	1.09
1:M:530:MET:HE2	4:Z:354:GLN:CG	1.82	1.09
1:M:571:ALA:O	1:M:572:LYS:HG3	1.52	1.09
1:M:721:LYS:HA	1:M:736:GLN:CD	1.73	1.09
1:M:734:GLU:O	1:M:738:MET:HG2	1.51	1.09
2:N:121:LEU:O	2:N:128:PHE:HB2	0.94	1.09
1:P:201:ALA:O	1:P:202:SER:HB3	1.36	1.09
1:P:721:LYS:HG3	1:P:736:GLN:HG2	1.25	1.09
1:P:721:LYS:HA	1:P:736:GLN:CD	1.73	1.09
1:P:782:MLY:CH2	3:R:80:ASP:CB	2.22	1.09
4:4:287:ILE:HD13	4:6:203:THR:HB	1.22	1.09
1:A:85:TYR:OH	1:A:772:LEU:HD23	0.92	1.09
1:A:819:ASN:ND2	2:B:90:GLY:O	1.84	1.09
1:D:553:MLY:HB3	4:W:46:GLY:CA	1.51	1.09
1:G:830:PRO:HB3	2:H:67:MET:HE1	1.19	1.09
1:J:202:SER:CA	1:J:207:LYS:HE2	1.82	1.09
2:K:117:LEU:HB2	2:K:147:ASN:CG	1.70	1.09
1:M:548:THR:HB	4:2:48:GLY:HA2	1.16	1.09
1:M:791:GLN:OE1	3:O:116:GLU:HG3	1.52	1.09
2:N:117:LEU:HB2	2:N:147:ASN:CG	1.71	1.09
1:P:831:TRP:HH2	2:Q:47:LEU:HD21	1.09	1.09
4:9:287:ILE:HG21	4:W:205:GLU:HG2	1.17	1.09
1:A:95:THR:OG1	1:A:769:ALA:CA	2.01	1.09
1:A:499:GLU:OE1	1:A:766:PHE:HZ	1.14	1.09
1:A:721:LYS:HA	1:A:736:GLN:CD	1.73	1.09
1:D:726:VAL:HG12	1:D:785:GLU:HG2	1.31	1.09
1:D:815:CYS:SG	2:E:92:ASP:HB2	1.92	1.09
1:G:736:GLN:HA	1:G:743:ALA:HB3	1.35	1.09
1:G:818:TYR:CE1	2:H:127:ARG:CZ	2.35	1.09
1:J:754:ASP:OD1	1:J:780:ASP:OD2	1.71	1.09
1:M:84:MLY:HD3	1:M:776:GLU:OE1	1.49	1.09
2:N:111:SER:OG	2:N:148:VAL:O	1.71	1.09
1:P:548:THR:HG22	4:3:49:GLN:CG	1.82	1.09
1:P:838:ILE:HD11	2:Q:54:MET:HE3	1.23	1.09
1:A:638:GLY:CA	4:8:341:ILE:O	2.01	1.08
1:A:736:GLN:HA	1:A:743:ALA:HB3	1.35	1.08
1:D:649:VAL:HG22	1:D:649:VAL:HG13	1.21	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:834:LEU:HD21	2:E:54:MET:HE2	1.12	1.08
2:E:111:SER:HB3	2:E:148:VAL:O	1.50	1.08
1:G:28:GLN:HB3	1:G:723:ARG:NH1	1.67	1.08
1:J:84:MLY:HH21	1:J:720:PHE:CA	1.82	1.08
1:M:508:ILE:HD11	1:M:766:PHE:CD1	1.88	1.08
1:M:538:GLU:O	4:Z:349:LEU:HD11	1.35	1.08
1:M:643:GLY:O	1:M:644:SER:OG	1.69	1.08
1:M:736:GLN:HA	1:M:743:ALA:HB3	1.35	1.08
1:M:767:PHE:CB	1:M:772:LEU:HD22	1.73	1.08
2:N:111:SER:CB	2:N:148:VAL:C	1.92	1.08
1:P:643:GLY:O	1:P:644:SER:OG	1.69	1.08
4:3:288:ASP:H	4:5:203:THR:HG22	1.17	1.08
4:8:287:ILE:HG21	4:V:205:GLU:HG2	1.17	1.08
1:A:641:LYS:HE3	1:A:647:GLN:OE1	1.50	1.08
1:A:754:ASP:OD2	1:A:778:MET:CE	2.01	1.08
1:D:571:ALA:O	1:D:572:LYS:HG3	1.52	1.08
1:D:734:GLU:O	1:D:738:MET:HG2	1.51	1.08
3:I:24:LYS:CB	3:I:63:ILE:O	1.99	1.08
1:J:538:GLU:C	4:W:349:LEU:HD11	1.54	1.08
1:M:202:SER:CA	1:M:207:LYS:HE2	1.82	1.08
1:P:649:VAL:HG22	1:P:649:VAL:HG13	1.21	1.08
1:A:93:MET:HE1	1:A:715:VAL:CG1	1.83	1.08
1:D:530:MET:HE2	4:9:354:GLN:CG	1.84	1.08
1:D:576:GLU:HG2	1:D:577:ALA:N	1.66	1.08
1:G:638:GLY:CA	4:V:341:ILE:O	2.02	1.08
1:G:795:ARG:CZ	3:I:116:GLU:CD	2.22	1.08
1:J:721:LYS:HG3	1:J:736:GLN:HG2	1.25	1.08
1:P:638:GLY:CA	4:1:341:ILE:O	2.01	1.08
1:A:538:GLU:OE2	4:8:355:MET:HE1	1.52	1.08
2:B:111:SER:OG	2:B:148:VAL:O	1.71	1.08
1:D:643:GLY:O	1:D:644:SER:OG	1.70	1.08
1:G:795:ARG:NH2	3:I:116:GLU:CG	2.17	1.08
1:J:538:GLU:HA	4:W:349:LEU:CD1	1.55	1.08
1:J:643:GLY:O	1:J:644:SER:OG	1.69	1.08
1:M:795:ARG:CZ	3:O:116:GLU:OE2	2.00	1.08
2:N:121:LEU:C	2:N:128:PHE:HB3	1.72	1.08
1:P:538:GLU:HA	4:1:349:LEU:CD1	1.55	1.08
1:P:734:GLU:O	1:P:738:MET:HG2	1.50	1.08
4:7:287:ILE:HG21	4:9:205:GLU:HG2	1.17	1.08
1:A:498:LEU:CD2	1:A:764:MLY:HH22	1.83	1.08
1:A:643:GLY:O	1:A:644:SER:OG	1.69	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:VAL:HG13	1:D:76:GLN:HB3	1.36	1.08
2:E:111:SER:CB	2:E:148:VAL:O	0.78	1.08
2:E:111:SER:OG	2:E:148:VAL:O	1.71	1.08
1:G:641:LYS:HB2	1:G:647:GLN:NE2	1.68	1.08
2:H:111:SER:CB	2:H:148:VAL:O	0.78	1.08
1:J:529:PRO:HB3	4:W:353:GLN:OE1	1.53	1.08
1:J:834:LEU:HD13	2:K:51:PHE:CE1	1.89	1.08
1:M:529:PRO:HB3	4:Z:353:GLN:OE1	1.53	1.08
1:M:639:GLY:CA	4:Z:345:ILE:HA	1.73	1.08
1:M:649:VAL:HG22	1:M:649:VAL:HG13	1.21	1.08
1:M:767:PHE:HB2	1:M:772:LEU:HD21	1.27	1.08
1:M:798:LEU:CD1	3:O:126:LEU:HD11	1.83	1.08
1:P:548:THR:HG22	4:3:49:GLN:CB	1.60	1.08
4:2:287:ILE:HD13	4:4:203:THR:HB	1.10	1.08
1:A:93:MET:HE1	1:A:715:VAL:HG13	1.10	1.07
1:A:768:MLY:HG2	1:A:771:LEU:HD13	1.28	1.07
2:B:111:SER:CB	2:B:148:VAL:O	0.78	1.07
1:D:538:GLU:HA	4:9:349:LEU:CD1	1.54	1.07
1:D:541:MET:SD	4:9:345:ILE:O	2.12	1.07
1:D:721:LYS:HA	1:D:736:GLN:CD	1.73	1.07
1:D:739:ASP:HB3	1:D:742:LYS:HB3	1.21	1.07
1:G:649:VAL:HG22	1:G:649:VAL:HG13	1.21	1.07
1:J:638:GLY:CA	4:W:341:ILE:O	2.01	1.07
1:M:638:GLY:CA	4:Z:341:ILE:O	2.01	1.07
4:3:290:ARG:CZ	4:5:202:THR:CG2	2.20	1.07
1:A:541:MET:SD	4:8:345:ILE:O	2.12	1.07
1:A:571:ALA:O	1:A:572:LYS:HG3	1.52	1.07
1:D:795:ARG:HG2	3:F:118:MET:CE	1.85	1.07
1:G:641:LYS:HE3	1:G:647:GLN:OE1	1.50	1.07
1:J:409:GLY:N	1:J:636:LYS:HG3	1.69	1.07
1:J:649:VAL:HG22	1:J:649:VAL:HG13	1.21	1.07
1:M:792:ALA:CA	3:O:42:THR:HG22	1.84	1.07
2:N:111:SER:CB	2:N:148:VAL:O	0.78	1.07
2:Q:111:SER:CB	2:Q:148:VAL:O	0.78	1.07
4:W:324:THR:HG21	4:Y:246:GLN:C	1.61	1.07
1:D:409:GLY:N	1:D:636:LYS:HG3	1.69	1.07
1:D:727:LEU:CB	1:D:782:MLY:HE2	1.83	1.07
1:G:571:ALA:O	1:G:572:LYS:HG3	1.52	1.07
1:G:643:GLY:O	1:G:644:SER:OG	1.69	1.07
1:G:721:LYS:HA	1:G:736:GLN:CD	1.73	1.07
1:G:796:GLY:HA2	3:I:35:ARG:CD	1.83	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:801:VAL:HG21	3:I:126:LEU:HD23	1.12	1.07
1:J:94:MET:C	1:J:713:SER:HB3	1.74	1.07
2:K:111:SER:OG	2:K:148:VAL:O	1.71	1.07
1:P:84:MLY:HH13	1:P:776:GLU:CD	1.74	1.07
1:P:541:MET:SD	4:1:345:ILE:O	2.13	1.07
1:P:576:GLU:HG2	1:P:577:ALA:N	1.66	1.07
4:2:287:ILE:HB	4:4:203:THR:HG22	1.32	1.07
4:3:322:PRO:HB3	4:5:244:ASP:CG	1.75	1.07
1:D:641:LYS:HB2	1:D:647:GLN:NE2	1.68	1.07
1:G:797:PHE:CE2	3:I:126:LEU:CD2	2.37	1.07
1:G:813:ILE:CG2	2:H:128:PHE:CE1	2.37	1.07
1:J:541:MET:SD	4:W:345:ILE:O	2.13	1.07
1:J:721:LYS:HA	1:J:736:GLN:CD	1.73	1.07
2:K:111:SER:CB	2:K:148:VAL:O	0.78	1.07
1:M:409:GLY:N	1:M:636:LYS:HG3	1.69	1.07
1:M:541:MET:SD	4:Z:345:ILE:O	2.13	1.07
1:P:201:ALA:O	1:P:202:SER:CB	1.92	1.07
2:Q:111:SER:CB	2:Q:148:VAL:C	1.93	1.07
4:3:324:THR:CB	4:5:243:PRO:O	2.01	1.07
1:A:409:GLY:N	1:A:636:LYS:HG3	1.69	1.07
1:A:538:GLU:C	4:8:349:LEU:HD11	1.54	1.07
1:D:638:GLY:CA	4:9:341:ILE:O	2.01	1.07
1:G:409:GLY:N	1:G:636:LYS:HG3	1.69	1.07
1:G:538:GLU:C	4:V:349:LEU:HD11	1.54	1.07
1:J:817:GLN:CG	2:K:127:ARG:CD	2.33	1.07
1:M:817:GLN:CB	2:N:127:ARG:HD2	1.84	1.07
1:M:820:VAL:HG11	2:N:136:MET:HE3	1.33	1.07
1:P:834:LEU:HD13	2:Q:51:PHE:HE1	1.17	1.07
1:P:834:LEU:CD1	2:Q:51:PHE:HE1	1.67	1.07
2:Q:121:LEU:C	2:Q:128:PHE:HB2	1.67	1.07
4:W:3:ASP:HA	4:W:6:THR:HB	1.36	1.07
1:A:72:VAL:HG13	1:A:76:GLN:HB3	1.36	1.06
1:A:201:ALA:O	1:A:202:SER:CB	1.92	1.06
1:A:542:PHE:CG	4:8:143:TYR:HE1	1.73	1.06
1:A:791:GLN:NE2	3:C:115:GLY:HA3	1.70	1.06
2:B:111:SER:HB3	2:B:148:VAL:O	1.49	1.06
1:G:798:LEU:CD2	3:I:118:MET:HB3	1.84	1.06
1:J:576:GLU:HG2	1:J:577:ALA:N	1.66	1.06
1:J:756:THR:HG22	1:J:776:GLU:CG	1.83	1.06
1:M:783:LEU:CB	1:M:786:ILE:HD11	1.85	1.06
1:A:502:GLU:HA	1:A:761:GLY:CA	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:542:PHE:CG	4:9:143:TYR:HE1	1.73	1.06
1:G:541:MET:SD	4:V:345:ILE:O	2.13	1.06
1:G:728:ASN:OD1	3:I:114:LEU:HD21	1.55	1.06
1:M:797:PHE:CD1	3:O:146:ILE:O	2.09	1.06
2:Q:144:VAL:HG11	2:Q:153:ILE:HG12	1.38	1.06
1:D:732:ILE:HG21	1:D:782:MLY:CH2	1.84	1.06
1:D:797:PHE:CE2	3:F:126:LEU:CD2	2.31	1.06
2:E:121:LEU:C	2:E:128:PHE:HB3	1.72	1.06
1:G:28:GLN:CA	1:G:723:ARG:HH22	1.68	1.06
1:G:801:VAL:HG21	3:I:126:LEU:HD21	1.33	1.06
1:J:756:THR:CG2	1:J:776:GLU:OE1	2.04	1.06
1:M:639:GLY:HA2	4:Z:345:ILE:HA	1.26	1.06
2:N:114:LYS:HA	2:N:146:GLY:O	0.89	1.06
1:P:736:GLN:HA	1:P:743:ALA:HB3	1.35	1.06
1:P:736:GLN:N	1:P:743:ALA:CB	2.05	1.06
1:P:818:TYR:CE1	2:Q:127:ARG:CZ	2.37	1.06
4:W:325:MET:CE	4:Y:244:ASP:OD2	2.04	1.06
1:A:791:GLN:CD	3:C:116:GLU:H	1.58	1.06
1:A:795:ARG:HH21	3:C:116:GLU:CB	1.66	1.06
1:D:641:LYS:HE3	1:D:647:GLN:OE1	1.50	1.06
1:D:813:ILE:HG23	2:E:128:PHE:CZ	1.90	1.06
2:E:121:LEU:HG	2:E:128:PHE:CA	1.59	1.06
1:G:553:MLY:HE2	4:X:45:VAL:HB	1.09	1.06
1:J:756:THR:CG2	1:J:776:GLU:CA	2.34	1.06
1:J:818:TYR:CE1	2:K:127:ARG:CZ	2.39	1.06
1:P:635:GLY:HA3	4:1:341:ILE:HD13	1.36	1.06
2:Q:121:LEU:C	2:Q:128:PHE:HB3	1.71	1.06
4:3:322:PRO:HB2	4:5:244:ASP:CB	1.85	1.06
2:B:114:LYS:HA	2:B:146:GLY:O	0.89	1.06
1:D:635:GLY:HA3	4:9:341:ILE:HD13	1.37	1.06
1:G:28:GLN:CG	1:G:723:ARG:HH12	1.66	1.06
1:G:557:GLU:HB3	4:X:46:GLY:C	1.76	1.06
1:G:838:ILE:CD1	2:H:54:MET:CE	2.27	1.06
1:J:28:GLN:HG2	1:J:723:ARG:NH1	1.47	1.06
1:J:84:MLY:CH1	1:J:720:PHE:CE1	2.36	1.06
1:J:567:LYS:NZ	4:Y:92:ASN:HD22	1.50	1.06
1:J:641:LYS:HD2	1:J:647:GLN:CD	1.70	1.06
1:M:737:PHE:CZ	3:O:84:PHE:CZ	2.43	1.06
1:M:767:PHE:HB3	1:M:772:LEU:HD22	1.12	1.06
1:M:797:PHE:CZ	3:O:146:ILE:HD13	1.79	1.06
1:M:831:TRP:HH2	2:N:47:LEU:HD21	1.15	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:409:GLY:N	1:P:636:LYS:HG3	1.69	1.06
1:P:529:PRO:HB3	4:1:353:GLN:OE1	1.53	1.06
1:P:838:ILE:CD1	2:Q:54:MET:CE	2.34	1.06
1:A:93:MET:SD	1:A:715:VAL:HG22	1.96	1.05
1:A:638:GLY:HA2	4:8:341:ILE:O	1.57	1.05
1:D:538:GLU:OE2	4:9:355:MET:HE1	1.55	1.05
1:D:797:PHE:CG	3:F:146:ILE:HG23	1.91	1.05
2:E:114:LYS:HA	2:E:146:GLY:O	0.89	1.05
2:H:114:LYS:HA	2:H:146:GLY:O	0.88	1.05
1:J:542:PHE:CG	4:W:143:TYR:HE1	1.73	1.05
1:J:635:GLY:HA3	4:W:341:ILE:HD13	1.36	1.05
2:N:140:PHE:O	2:N:141:PRO:O	1.75	1.05
1:P:542:PHE:CG	4:1:143:TYR:HE1	1.73	1.05
1:P:836:PHE:CE1	2:Q:159:HIS:CA	2.38	1.05
4:1:167:GLU:OE1	4:3:42:GLY:CA	2.03	1.05
1:A:529:PRO:HB3	4:8:353:GLN:OE1	1.53	1.05
1:A:795:ARG:CZ	3:C:116:GLU:CD	2.21	1.05
1:D:530:MET:CA	4:9:354:GLN:HG3	1.87	1.05
1:G:556:ASP:CG	4:X:47:MET:HE2	1.33	1.05
1:G:721:LYS:HG3	1:G:736:GLN:HG2	1.25	1.05
2:K:114:LYS:HA	2:K:146:GLY:O	0.89	1.05
1:M:783:LEU:HA	1:M:786:ILE:CG1	1.87	1.05
1:A:505:MLY:HG2	1:A:762:HIS:CD2	1.88	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:813:ILE:HG22	2:B:127:ARG:HD2	1.29	1.05
2:B:140:PHE:O	2:B:141:PRO:O	1.74	1.05
2:B:144:VAL:HG11	2:B:153:ILE:HG12	1.38	1.05
1:D:529:PRO:HB3	4:9:353:GLN:OE1	1.53	1.05
1:D:727:LEU:HD11	1:D:782:MLY:HG2	1.07	1.05
1:D:727:LEU:CD1	1:D:782:MLY:CE	2.16	1.05
1:D:831:TRP:CZ2	2:E:47:LEU:HA	1.90	1.05
1:G:553:MLY:HH13	4:X:45:VAL:HG11	1.37	1.05
1:G:795:ARG:CA	3:I:118:MET:CE	2.32	1.05
1:G:801:VAL:CG2	3:I:126:LEU:HD21	1.86	1.05
2:H:140:PHE:O	2:H:141:PRO:O	1.75	1.05
2:H:144:VAL:HG11	2:H:153:ILE:HG12	1.38	1.05
1:J:756:THR:HG21	1:J:776:GLU:CA	1.85	1.05
1:J:792:ALA:H	3:L:42:THR:CG2	1.69	1.05
1:M:72:VAL:HG13	1:M:76:GLN:HB3	1.36	1.05
1:M:530:MET:CA	4:Z:354:GLN:HG3	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:638:GLY:HA2	4:Z:341:ILE:O	1.57	1.05
1:P:72:VAL:HG13	1:P:76:GLN:HB3	1.36	1.05
4:1:112:PRO:CG	4:2:195:GLU:C	2.02	1.05
1:A:800:ARG:HB3	3:C:149:VAL:HG22	1.35	1.05
1:D:506:GLU:HG3	1:D:764:MLY:HE3	1.36	1.05
1:D:641:LYS:HG3	1:D:647:GLN:HG3	1.20	1.05
1:G:97:LEU:HD23	1:G:712:PRO:HB3	1.09	1.05
1:G:505:MLY:CD	1:G:762:HIS:HE2	1.69	1.05
2:H:144:VAL:HG13	2:H:153:ILE:HD11	1.21	1.05
1:M:641:LYS:HE3	1:M:647:GLN:CD	1.77	1.05
1:M:641:LYS:HB2	1:M:647:GLN:NE2	1.68	1.05
1:P:792:ALA:HB2	3:R:42:THR:CG2	1.87	1.05
1:D:638:GLY:HA2	4:9:341:ILE:O	1.57	1.05
1:D:726:VAL:CG1	1:D:785:GLU:HB3	1.87	1.05
1:D:736:GLN:HA	1:D:743:ALA:HB3	1.35	1.05
1:D:838:ILE:CD1	2:E:54:MET:CE	2.34	1.05
3:F:49:ILE:HA	3:F:52:ASN:HD22	1.22	1.05
1:G:529:PRO:HB3	4:V:353:GLN:OE1	1.53	1.05
1:G:635:GLY:HA3	4:V:341:ILE:HD13	1.37	1.05
1:G:801:VAL:CG2	3:I:126:LEU:CD2	2.34	1.05
1:G:819:ASN:HA	2:H:90:GLY:O	0.88	1.05
1:G:829:TRP:CZ3	2:H:84:PHE:CE1	2.44	1.05
2:H:111:SER:OG	2:H:148:VAL:O	1.71	1.05
1:J:641:LYS:HE3	1:J:647:GLN:CD	1.77	1.05
1:J:756:THR:HG21	1:J:776:GLU:O	1.55	1.05
4:8:3:ASP:HA	4:8:6:THR:HB	1.36	1.05
4:V:324:THR:HG21	4:X:246:GLN:C	1.70	1.05
4:W:325:MET:HE2	4:Y:244:ASP:OD2	1.56	1.05
4:Y:3:ASP:HA	4:Y:6:THR:HB	1.36	1.05
1:A:530:MET:CA	4:8:354:GLN:HG3	1.86	1.04
1:J:530:MET:CA	4:W:354:GLN:HG3	1.86	1.04
1:J:639:GLY:HA3	4:W:344:SER:C	1.78	1.04
1:J:797:PHE:CZ	3:L:146:ILE:HG23	1.91	1.04
1:J:831:TRP:HH2	2:K:47:LEU:CD2	1.60	1.04
1:J:838:ILE:HD11	2:K:54:MET:HE1	1.07	1.04
1:M:792:ALA:N	3:O:42:THR:HG22	1.70	1.04
1:P:84:MLY:HD3	1:P:776:GLU:OE1	1.56	1.04
1:P:639:GLY:HA3	4:1:344:SER:C	1.78	1.04
1:P:797:PHE:CD1	3:R:146:ILE:O	2.09	1.04
2:Q:111:SER:OG	2:Q:148:VAL:O	1.71	1.04
2:Q:114:LYS:HA	2:Q:146:GLY:O	0.89	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:3:ASP:HA	4:9:6:THR:HB	1.36	1.04
1:A:97:LEU:CD2	1:A:712:PRO:CB	2.35	1.04
1:A:149:GLN:HB3	1:A:718:ALA:C	1.77	1.04
1:A:502:GLU:CG	1:A:761:GLY:CA	2.35	1.04
1:A:798:LEU:HD11	3:C:126:LEU:HD21	1.35	1.04
1:G:505:MLY:CD	1:G:762:HIS:NE2	2.19	1.04
1:G:830:PRO:CB	2:H:67:MET:HE1	1.86	1.04
1:M:542:PHE:CG	4:Z:143:TYR:HE1	1.73	1.04
1:M:838:ILE:CD1	2:N:54:MET:CE	2.35	1.04
1:P:529:PRO:C	4:1:354:GLN:HB3	1.77	1.04
4:5:3:ASP:HA	4:5:6:THR:HB	1.36	1.04
1:A:498:LEU:HD21	1:A:764:MLY:HH22	1.39	1.04
1:D:599:ASN:HA	1:D:649:VAL:HB	1.05	1.04
1:D:639:GLY:HA3	4:9:344:SER:C	1.78	1.04
1:D:641:LYS:HE3	1:D:647:GLN:CD	1.77	1.04
1:D:747:LEU:HD11	1:D:782:MLY:HH21	1.12	1.04
1:G:552:ASN:O	4:X:47:MET:CE	2.05	1.04
1:G:736:GLN:N	1:G:743:ALA:CB	2.04	1.04
1:G:754:ASP:CB	1:G:776:GLU:HA	1.87	1.04
1:J:638:GLY:HA2	4:W:341:ILE:O	1.57	1.04
1:M:641:LYS:HE3	4:Z:348:SER:O	1.55	1.04
1:M:838:ILE:HD11	2:N:54:MET:HE1	1.06	1.04
1:P:641:LYS:HE3	1:P:647:GLN:CD	1.77	1.04
1:P:838:ILE:HD11	2:Q:54:MET:HE1	1.08	1.04
4:7:290:ARG:CZ	4:9:202:THR:CG2	2.36	1.04
1:A:202:SER:CA	1:A:207:LYS:CE	2.36	1.04
1:D:797:PHE:HE1	3:F:146:ILE:HA	0.88	1.04
2:E:140:PHE:O	2:E:141:PRO:O	1.74	1.04
1:G:638:GLY:HA2	4:V:341:ILE:O	1.58	1.04
1:M:548:THR:OG1	4:2:48:GLY:HA3	1.58	1.04
3:O:49:ILE:CA	3:O:52:ASN:HD22	1.71	1.04
1:P:530:MET:CA	4:1:354:GLN:HG3	1.86	1.04
1:P:817:GLN:HG2	2:Q:127:ARG:HB2	1.38	1.04
3:R:49:ILE:CA	3:R:52:ASN:HD22	1.71	1.04
4:9:290:ARG:CZ	4:W:202:THR:CG2	2.36	1.04
1:A:149:GLN:CG	1:A:719:ASP:H	1.70	1.04
1:A:506:GLU:CG	1:A:760:PHE:O	2.02	1.04
1:A:641:LYS:HE3	1:A:647:GLN:CD	1.77	1.04
1:D:795:ARG:CZ	3:F:116:GLU:OE2	2.05	1.04
1:G:708:ARG:HA	1:G:712:PRO:HG3	1.05	1.04
3:I:49:ILE:CA	3:I:52:ASN:HD22	1.70	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:639:GLY:N	4:1:345:ILE:N	1.94	1.04
4:6:3:ASP:HA	4:6:6:THR:HB	1.36	1.04
4:V:3:ASP:HA	4:V:6:THR:HB	1.36	1.04
1:A:502:GLU:HG3	1:A:761:GLY:N	1.71	1.03
1:A:795:ARG:NE	3:C:43:ASN:OD1	1.90	1.03
1:D:639:GLY:N	4:9:345:ILE:N	1.94	1.03
1:J:28:GLN:OE1	1:J:723:ARG:HG2	1.57	1.03
1:J:72:VAL:HG13	1:J:76:GLN:HB3	1.36	1.03
1:J:641:LYS:HB2	1:J:647:GLN:NE2	1.68	1.03
1:J:831:TRP:HE1	2:K:67:MET:HB3	1.20	1.03
1:M:576:GLU:HG2	1:M:577:ALA:N	1.66	1.03
1:M:797:PHE:CE1	3:O:146:ILE:C	2.31	1.03
1:M:797:PHE:CE1	3:O:146:ILE:CG2	2.39	1.03
1:M:836:PHE:CE1	2:N:159:HIS:CA	2.40	1.03
1:P:641:LYS:HD2	1:P:647:GLN:CD	1.70	1.03
1:P:800:ARG:NH2	3:R:40:ASN:OD1	1.90	1.03
1:P:817:GLN:CB	2:Q:127:ARG:HD2	1.88	1.03
4:2:288:ASP:OD2	4:4:203:THR:CG2	2.06	1.03
4:3:324:THR:CG2	4:5:244:ASP:O	1.97	1.03
1:A:502:GLU:CD	1:A:761:GLY:CA	2.18	1.03
1:A:641:LYS:HG3	1:A:647:GLN:HG3	1.21	1.03
1:A:797:PHE:HE2	3:C:126:LEU:HD22	1.23	1.03
2:E:150:TYR:O	2:E:151:LYS:CB	2.06	1.03
2:N:149:ASP:OD2	2:N:150:TYR:N	1.91	1.03
1:P:783:LEU:O	1:P:786:ILE:CG1	2.06	1.03
4:1:3:ASP:HA	4:1:6:THR:HB	1.36	1.03
4:2:3:ASP:HA	4:2:6:THR:HB	1.36	1.03
1:A:553:MLY:CB	4:V:46:GLY:CA	2.32	1.03
1:A:641:LYS:HB2	1:A:647:GLN:NE2	1.68	1.03
2:B:54:MET:CA	2:H:21:GLU:OE1	2.05	1.03
1:G:542:PHE:CG	4:V:143:TYR:HE1	1.74	1.03
1:G:641:LYS:HE3	1:G:647:GLN:CD	1.77	1.03
2:H:149:ASP:OD2	2:H:150:TYR:N	1.91	1.03
1:J:599:ASN:HA	1:J:649:VAL:HB	1.05	1.03
2:K:111:SER:HB3	2:K:148:VAL:O	1.50	1.03
2:K:144:VAL:HG11	2:K:153:ILE:HG12	1.38	1.03
3:L:49:ILE:CA	3:L:52:ASN:HD22	1.71	1.03
1:M:56:GLU:HB2	1:M:59:MLY:HB3	1.40	1.03
1:M:202:SER:CA	1:M:207:LYS:CE	2.36	1.03
1:M:836:PHE:CZ	2:N:160:GLY:N	2.27	1.03
1:P:538:GLU:OE2	4:1:355:MET:HE1	1.55	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:3:ASP:HA	4:3:6:THR:HB	1.36	1.03
4:8:290:ARG:CZ	4:V:202:THR:CG2	2.36	1.03
1:A:795:ARG:HH21	3:C:116:GLU:CG	1.70	1.03
1:A:797:PHE:CD1	3:C:146:ILE:HG23	1.93	1.03
1:A:823:PHE:CD1	2:B:160:GLY:HA2	1.94	1.03
1:A:831:TRP:CZ3	2:B:50:THR:HG22	1.93	1.03
1:D:795:ARG:HG2	3:F:118:MET:HE1	1.37	1.03
3:F:49:ILE:CA	3:F:52:ASN:HD22	1.70	1.03
1:G:84:MLY:HH22	1:G:723:ARG:CB	1.88	1.03
1:G:202:SER:CA	1:G:207:LYS:CE	2.36	1.03
1:G:530:MET:HE2	4:V:354:GLN:CG	1.89	1.03
1:J:28:GLN:CG	1:J:723:ARG:CZ	2.36	1.03
1:J:639:GLY:N	4:W:345:ILE:N	1.94	1.03
1:J:736:GLN:HA	1:J:743:ALA:HB3	1.35	1.03
2:K:150:TYR:O	2:K:151:LYS:CB	2.06	1.03
2:Q:111:SER:HB3	2:Q:148:VAL:O	1.50	1.03
2:Q:140:PHE:O	2:Q:141:PRO:O	1.75	1.03
2:Q:149:ASP:OD2	2:Q:150:TYR:N	1.91	1.03
4:4:3:ASP:HA	4:4:6:THR:HB	1.36	1.03
1:A:769:ALA:O	1:A:772:LEU:N	1.92	1.03
1:A:797:PHE:CE2	3:C:146:ILE:CD1	2.32	1.03
1:D:206:LYS:HD2	1:D:217:THR:HG23	1.41	1.03
1:G:72:VAL:HG13	1:G:76:GLN:HB3	1.37	1.03
1:G:795:ARG:HG2	3:I:118:MET:HE2	1.37	1.03
2:K:140:PHE:O	2:K:141:PRO:O	1.75	1.03
1:M:635:GLY:HA3	4:Z:341:ILE:HD13	1.36	1.03
1:P:722:GLN:NE2	3:R:86:ASP:N	2.05	1.03
1:P:834:LEU:HD13	2:Q:51:PHE:CE1	1.93	1.03
1:A:837:MLY:CH2	2:H:20:ASP:HB2	1.89	1.02
2:B:149:ASP:OD2	2:B:150:TYR:N	1.91	1.02
3:C:24:LYS:HG2	3:C:63:ILE:O	1.59	1.02
3:C:49:ILE:CA	3:C:52:ASN:HD22	1.70	1.02
1:D:541:MET:HB3	4:9:143:TYR:OH	1.60	1.02
1:D:712:PRO:HG2	1:D:771:LEU:HB2	1.07	1.02
1:J:795:ARG:NH2	3:L:116:GLU:CD	2.12	1.02
2:K:149:ASP:OD2	2:K:150:TYR:N	1.91	1.02
1:M:541:MET:HB3	4:Z:143:TYR:OH	1.59	1.02
1:M:783:LEU:HG	1:M:786:ILE:HD11	1.38	1.02
1:M:806:MET:N	1:M:807:VAL:N	2.06	1.02
3:O:24:LYS:HG2	3:O:63:ILE:O	1.59	1.02
1:P:599:ASN:HA	1:P:649:VAL:HB	1.05	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:767:PHE:CB	1:P:772:LEU:HD21	1.75	1.02
1:P:800:ARG:HB3	3:R:149:VAL:HG22	1.40	1.02
1:P:804:ARG:O	1:P:808:GLU:CG	2.06	1.02
1:P:836:PHE:CZ	2:Q:160:GLY:N	2.26	1.02
1:A:56:GLU:HB2	1:A:59:MLY:HB3	1.40	1.02
1:A:93:MET:CG	1:A:715:VAL:HG22	1.89	1.02
1:A:709:LYS:O	1:A:710:GLY:CA	2.06	1.02
1:D:529:PRO:C	4:9:354:GLN:HB3	1.78	1.02
1:D:727:LEU:HG	1:D:782:MLY:CG	1.87	1.02
1:D:747:LEU:HD13	1:D:782:MLY:HH21	1.41	1.02
2:E:149:ASP:OD2	2:E:150:TYR:N	1.91	1.02
1:G:530:MET:CA	4:V:354:GLN:HG3	1.88	1.02
1:G:641:LYS:HE3	4:V:348:SER:O	1.56	1.02
1:J:56:GLU:HB2	1:J:59:MLY:HB3	1.40	1.02
1:J:529:PRO:C	4:W:354:GLN:HB3	1.77	1.02
1:J:641:LYS:HE3	4:W:348:SER:O	1.55	1.02
2:K:121:LEU:HG	2:K:128:PHE:CA	1.60	1.02
1:M:792:ALA:H	3:O:42:THR:HG22	1.21	1.02
1:M:795:ARG:NH2	3:O:116:GLU:OE1	1.91	1.02
3:O:49:ILE:HA	3:O:52:ASN:HD22	1.23	1.02
1:P:202:SER:CA	1:P:207:LYS:CE	2.36	1.02
1:P:641:LYS:HB2	1:P:647:GLN:NE2	1.68	1.02
4:3:324:THR:HG21	4:5:244:ASP:O	1.59	1.02
3:C:24:LYS:CG	3:C:63:ILE:O	2.08	1.02
1:D:599:ASN:CA	1:D:649:VAL:HB	1.89	1.02
1:D:646:PHE:HE2	1:D:652:LEU:HD21	1.24	1.02
1:G:557:GLU:CB	4:X:46:GLY:C	2.26	1.02
2:H:121:LEU:C	2:H:128:PHE:HB3	1.71	1.02
1:J:599:ASN:CA	1:J:649:VAL:HB	1.89	1.02
1:J:642:LYS:HG3	4:W:23:GLY:H	0.86	1.02
1:J:756:THR:CG2	1:J:776:GLU:CD	2.28	1.02
1:J:819:ASN:CG	2:K:92:ASP:CB	2.28	1.02
1:M:599:ASN:CA	1:M:649:VAL:HB	1.89	1.02
1:M:797:PHE:CE2	3:O:146:ILE:HG23	1.93	1.02
1:M:817:GLN:CD	2:N:127:ARG:HD2	1.79	1.02
1:M:829:TRP:CH2	2:N:87:LYS:NZ	2.28	1.02
3:R:24:LYS:CG	3:R:63:ILE:O	2.08	1.02
4:1:205:GLU:HG3	4:Y:287:ILE:CG1	1.89	1.02
1:A:541:MET:HB3	4:8:143:TYR:OH	1.59	1.02
1:A:557:GLU:N	4:V:48:GLY:CA	2.12	1.02
1:A:797:PHE:CG	3:C:146:ILE:HG23	1.94	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:SER:CA	1:D:207:LYS:CE	2.36	1.02
1:D:553:MLY:HG2	4:W:44:MET:O	1.59	1.02
1:D:747:LEU:HD21	1:D:782:MLY:HH11	1.39	1.02
1:D:831:TRP:CH2	2:E:47:LEU:HA	1.95	1.02
3:F:24:LYS:CG	3:F:63:ILE:O	2.08	1.02
1:G:642:LYS:HG3	4:V:23:GLY:H	0.85	1.02
1:M:639:GLY:HA3	4:Z:344:SER:C	1.78	1.02
1:M:817:GLN:HB3	2:N:127:ARG:CD	1.89	1.02
1:P:638:GLY:HA2	4:1:341:ILE:O	1.57	1.02
1:P:767:PHE:CD2	1:P:772:LEU:HD11	1.93	1.02
4:X:291:LYS:HG3	4:Z:245:GLY:CA	1.87	1.02
1:A:599:ASN:HA	1:A:649:VAL:HB	1.06	1.02
1:A:642:LYS:HG3	4:8:23:GLY:H	0.87	1.02
1:D:727:LEU:HD12	1:D:782:MLY:NZ	1.74	1.02
1:D:797:PHE:HE1	3:F:146:ILE:CA	1.72	1.02
1:G:753:VAL:CA	1:G:780:ASP:OD1	1.96	1.02
1:J:820:VAL:HG11	2:K:136:MET:CE	1.89	1.02
1:J:821:ARG:NH2	2:K:127:ARG:CG	2.22	1.02
3:L:24:LYS:HG2	3:L:63:ILE:O	1.59	1.02
1:M:98:HIS:HB3	1:M:100:PRO:HD2	1.42	1.02
3:O:24:LYS:CG	3:O:63:ILE:O	2.08	1.02
1:P:541:MET:HB3	4:1:143:TYR:OH	1.59	1.02
1:P:599:ASN:CA	1:P:649:VAL:HB	1.89	1.02
1:P:836:PHE:HE1	2:Q:159:HIS:HA	1.21	1.02
4:X:3:ASP:HA	4:X:6:THR:HB	1.36	1.02
1:A:98:HIS:HB3	1:A:100:PRO:HD2	1.42	1.01
1:A:754:ASP:OD2	1:A:778:MET:HE3	1.60	1.01
1:D:507:GLY:HA3	1:D:762:HIS:CG	1.95	1.01
1:D:641:LYS:HD2	1:D:647:GLN:CD	1.70	1.01
3:F:24:LYS:HG2	3:F:63:ILE:O	1.59	1.01
1:J:642:LYS:HD3	4:W:340:TRP:CH2	1.95	1.01
1:M:834:LEU:CD1	2:N:51:PHE:HE1	1.73	1.01
2:N:144:VAL:HG11	2:N:153:ILE:HG12	1.38	1.01
1:P:534:SER:O	4:1:351:THR:HA	1.59	1.01
1:P:797:PHE:HE2	3:R:126:LEU:HD22	1.21	1.01
4:2:322:PRO:HB3	4:4:244:ASP:CB	1.90	1.01
4:7:287:ILE:HB	4:9:204:ALA:H	1.25	1.01
4:8:290:ARG:NH2	4:V:202:THR:CG2	2.23	1.01
1:A:576:GLU:HG2	1:A:577:ALA:N	1.66	1.01
2:B:144:VAL:HG13	2:B:153:ILE:HD11	1.22	1.01
1:D:642:LYS:HD3	4:9:340:TRP:CH2	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:ARG:O	3:F:149:VAL:HG21	1.58	1.01
1:G:97:LEU:CD2	1:G:712:PRO:CB	2.38	1.01
1:G:639:GLY:HA3	4:V:344:SER:C	1.78	1.01
1:J:646:PHE:HE2	1:J:652:LEU:HD21	1.24	1.01
1:P:782:MLY:HH23	3:R:80:ASP:C	1.80	1.01
1:P:792:ALA:HB2	3:R:42:THR:HG23	1.43	1.01
3:R:24:LYS:HG2	3:R:63:ILE:O	1.59	1.01
3:R:49:ILE:HA	3:R:52:ASN:HD22	1.23	1.01
4:7:3:ASP:HA	4:7:6:THR:HB	1.36	1.01
4:Z:3:ASP:HA	4:Z:6:THR:HB	1.36	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CZ3	1.95	1.01
1:D:534:SER:O	4:9:351:THR:HA	1.59	1.01
1:D:642:LYS:HD3	4:9:340:TRP:CZ3	1.95	1.01
1:D:769:ALA:N	1:D:771:LEU:HA	1.73	1.01
1:D:838:ILE:HD12	2:E:54:MET:CE	1.90	1.01
1:G:56:GLU:HB2	1:G:59:MLY:HB3	1.40	1.01
1:G:206:LYS:CD	1:G:217:THR:CG2	2.16	1.01
1:G:599:ASN:CA	1:G:649:VAL:HB	1.89	1.01
2:K:121:LEU:C	2:K:128:PHE:HB3	1.71	1.01
1:M:599:ASN:HA	1:M:649:VAL:HB	1.05	1.01
1:M:737:PHE:CE2	3:O:84:PHE:CE1	2.48	1.01
1:P:576:GLU:HG2	1:P:577:ALA:H	0.85	1.01
1:A:791:GLN:HE22	3:C:115:GLY:HA3	1.20	1.01
2:B:121:LEU:C	2:B:128:PHE:HB3	1.72	1.01
3:C:49:ILE:HA	3:C:52:ASN:HD22	1.22	1.01
1:D:534:SER:O	4:9:351:THR:HG23	1.13	1.01
1:D:799:MET:SD	3:F:32:ASP:HA	2.00	1.01
3:F:48:LYS:O	3:F:52:ASN:ND2	1.94	1.01
1:G:641:LYS:HE3	1:G:647:GLN:HB2	1.42	1.01
3:I:48:LYS:O	3:I:52:ASN:ND2	1.94	1.01
1:J:534:SER:O	4:W:351:THR:HA	1.60	1.01
1:J:534:SER:C	4:W:351:THR:HA	1.81	1.01
1:J:641:LYS:CG	4:W:348:SER:HB2	1.86	1.01
3:L:24:LYS:CG	3:L:63:ILE:O	2.08	1.01
1:M:723:ARG:CD	1:M:779:ARG:HE	1.73	1.01
1:M:783:LEU:C	1:M:786:ILE:HG13	1.81	1.01
1:P:56:GLU:HB2	1:P:59:MLY:HB3	1.40	1.01
1:P:98:HIS:HB3	1:P:100:PRO:HD2	1.42	1.01
1:P:642:LYS:HG3	4:1:23:GLY:H	0.86	1.01
2:Q:150:TYR:O	2:Q:151:LYS:CB	2.07	1.01
4:3:324:THR:HB	4:5:243:PRO:O	1.14	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:GLY:HA3	4:8:344:SER:C	1.78	1.01
1:A:642:LYS:HD3	4:8:340:TRP:CH2	1.95	1.01
1:A:707:CYS:HA	1:A:714:ARG:NH2	1.76	1.01
1:A:795:ARG:HH21	3:C:116:GLU:HB3	1.21	1.01
1:A:837:MLY:HH21	2:H:20:ASP:CA	1.90	1.01
1:D:797:PHE:CE1	3:F:146:ILE:CA	2.43	1.01
1:G:599:ASN:HA	1:G:649:VAL:HB	1.05	1.01
1:J:149:GLN:OE1	1:J:763:THR:HG21	1.61	1.01
1:J:206:LYS:HD2	1:J:217:THR:HG23	1.41	1.01
1:J:642:LYS:HD3	4:W:340:TRP:CZ3	1.96	1.01
1:M:84:MLY:CH1	1:M:776:GLU:CD	2.29	1.01
1:M:641:LYS:HE3	1:M:647:GLN:HB2	1.42	1.01
2:N:144:VAL:HG13	2:N:153:ILE:HD11	1.21	1.01
1:P:642:LYS:HD3	4:1:340:TRP:CH2	1.96	1.01
2:Q:144:VAL:HG13	2:Q:153:ILE:HD11	1.21	1.01
4:4:288:ASP:N	4:6:203:THR:HG22	1.76	1.01
1:A:553:MLY:HG2	4:V:44:MET:O	1.59	1.00
1:A:795:ARG:HB3	3:C:35:ARG:NH2	1.73	1.00
1:A:836:PHE:HZ	2:B:160:GLY:N	1.57	1.00
1:D:534:SER:C	4:9:351:THR:HA	1.81	1.00
1:D:641:LYS:HE3	1:D:647:GLN:HB2	1.42	1.00
1:D:642:LYS:HG3	4:9:23:GLY:H	0.86	1.00
1:D:712:PRO:HG2	1:D:771:LEU:CB	1.92	1.00
1:G:206:LYS:HD2	1:G:217:THR:HG23	1.41	1.00
2:H:150:TYR:O	2:H:151:LYS:CB	2.06	1.00
1:J:541:MET:HB3	4:W:143:TYR:OH	1.59	1.00
1:M:534:SER:C	4:Z:351:THR:HA	1.81	1.00
3:O:48:LYS:O	3:O:52:ASN:ND2	1.94	1.00
1:P:215:GLN:CA	1:P:340:ILE:HG23	1.91	1.00
4:9:290:ARG:NH2	4:W:202:THR:CG2	2.23	1.00
1:A:599:ASN:CA	1:A:649:VAL:HB	1.89	1.00
1:A:641:LYS:HE3	1:A:647:GLN:HB2	1.42	1.00
1:A:709:LYS:O	1:A:710:GLY:HA3	1.62	1.00
1:D:218:LEU:CA	1:D:221:GLN:HG3	1.90	1.00
2:E:144:VAL:HG11	2:E:153:ILE:HG12	1.38	1.00
1:G:174:SER:HB3	1:G:667:THR:HG21	1.44	1.00
1:G:728:ASN:OD1	3:I:114:LEU:CD2	2.08	1.00
3:I:24:LYS:CG	3:I:63:ILE:O	2.08	1.00
3:I:49:ILE:HA	3:I:52:ASN:HD22	1.22	1.00
1:J:202:SER:CA	1:J:207:LYS:CE	2.36	1.00
1:M:797:PHE:HE1	3:O:146:ILE:O	1.36	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:641:LYS:HE3	1:P:647:GLN:HB2	1.42	1.00
4:W:291:LYS:HD2	4:Y:243:PRO:HB2	1.41	1.00
1:A:93:MET:CE	1:A:715:VAL:HG13	1.91	1.00
1:A:837:MLY:HH21	2:H:20:ASP:HB2	1.40	1.00
1:G:641:LYS:HE3	1:G:647:GLN:CB	1.91	1.00
1:G:642:LYS:HD3	4:V:340:TRP:CZ3	1.96	1.00
1:G:707:CYS:SG	1:G:714:ARG:NH2	2.34	1.00
1:M:642:LYS:HG3	4:Z:23:GLY:H	0.86	1.00
1:M:642:LYS:HD3	4:Z:340:TRP:CH2	1.95	1.00
1:M:646:PHE:HE2	1:M:652:LEU:HD21	1.24	1.00
1:M:723:ARG:HH22	1:M:783:LEU:HD11	1.14	1.00
1:M:799:MET:SD	3:O:32:ASP:CG	2.40	1.00
1:P:548:THR:HG22	4:3:49:GLN:HB2	1.01	1.00
1:P:641:LYS:HE3	1:P:647:GLN:CB	1.91	1.00
1:P:642:LYS:HD3	4:1:340:TRP:CZ3	1.96	1.00
4:V:324:THR:CG2	4:X:247:VAL:N	2.24	1.00
1:A:641:LYS:HE3	1:A:647:GLN:CB	1.91	1.00
1:D:641:LYS:HE3	4:9:348:SER:O	1.55	1.00
1:G:795:ARG:CB	3:I:35:ARG:HH12	1.73	1.00
1:G:829:TRP:HZ3	2:H:84:PHE:CE1	1.79	1.00
1:J:576:GLU:HG2	1:J:577:ALA:H	0.85	1.00
1:J:756:THR:CG2	1:J:776:GLU:CB	2.39	1.00
1:M:174:SER:HB3	1:M:667:THR:HG21	1.44	1.00
1:M:803:TYR:O	1:M:807:VAL:HB	1.60	1.00
1:P:534:SER:C	4:1:351:THR:HA	1.81	1.00
4:1:112:PRO:HG3	4:2:195:GLU:C	1.34	1.00
1:A:174:SER:HB3	1:A:667:THR:HG21	1.44	1.00
1:A:534:SER:C	4:8:351:THR:HA	1.81	1.00
3:C:48:LYS:O	3:C:52:ASN:ND2	1.94	1.00
1:D:724:TYR:CA	1:D:782:MLY:CD	2.34	1.00
1:J:215:GLN:CA	1:J:340:ILE:HG23	1.92	1.00
1:J:506:GLU:OE2	1:J:761:GLY:CA	2.08	1.00
1:M:206:LYS:HD2	1:M:217:THR:HG23	1.41	1.00
1:M:737:PHE:CD2	3:O:85:GLU:OE1	2.13	1.00
2:Q:149:ASP:OD2	2:Q:150:TYR:O	1.80	1.00
4:X:287:ILE:CD1	4:Z:205:GLU:HG3	1.91	1.00
1:A:501:GLU:CG	1:A:762:HIS:HD1	1.74	1.00
1:A:505:MLY:HB2	1:A:761:GLY:HA2	1.42	1.00
1:A:837:MLY:HH22	2:H:21:GLU:H	1.22	1.00
2:B:150:TYR:O	2:B:151:LYS:CB	2.07	1.00
1:D:98:HIS:HB3	1:D:100:PRO:HD2	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:530:MET:CE	4:V:354:GLN:CG	2.39	1.00
1:G:576:GLU:HG2	1:G:577:ALA:N	1.66	1.00
1:G:795:ARG:HA	3:I:118:MET:HE1	1.00	1.00
1:P:576:GLU:CG	1:P:577:ALA:H	1.75	1.00
1:P:723:ARG:NH2	1:P:782:MLY:HB3	1.76	1.00
1:A:798:LEU:CD1	3:C:126:LEU:HD21	1.91	1.00
1:G:541:MET:HB3	4:V:143:TYR:OH	1.59	1.00
1:G:576:GLU:HG2	1:G:577:ALA:H	0.85	1.00
1:J:576:GLU:CG	1:J:577:ALA:H	1.75	1.00
1:J:641:LYS:HE3	1:J:647:GLN:HB2	1.42	1.00
1:P:820:VAL:HG11	2:Q:136:MET:HE3	1.44	1.00
1:P:834:LEU:CD1	2:Q:51:PHE:CE1	2.45	1.00
1:A:576:GLU:CG	1:A:577:ALA:H	1.75	0.99
2:B:139:ALA:O	2:B:141:PRO:HD3	1.62	0.99
1:D:726:VAL:HG11	1:D:785:GLU:HB3	1.44	0.99
2:E:149:ASP:OD2	2:E:150:TYR:O	1.80	0.99
1:J:218:LEU:CA	1:J:221:GLN:HG3	1.91	0.99
1:M:642:LYS:HD3	4:Z:340:TRP:CZ3	1.96	0.99
1:M:826:VAL:HG21	2:N:88:LEU:CD2	1.92	0.99
2:N:141:PRO:HB2	2:N:142:PRO:HD2	1.44	0.99
1:P:829:TRP:CH2	2:Q:87:LYS:NZ	2.28	0.99
4:2:287:ILE:CG2	4:4:202:THR:OG1	2.03	0.99
4:X:287:ILE:CA	4:Z:201:VAL:HG23	1.91	0.99
1:D:56:GLU:HB2	1:D:59:MLY:HB3	1.40	0.99
1:D:612:GLN:HE22	1:D:627:GLY:CA	1.75	0.99
1:D:799:MET:HE1	3:F:32:ASP:HB3	1.38	0.99
1:D:823:PHE:CE1	2:E:160:GLY:HA3	1.96	0.99
1:M:820:VAL:HG11	2:N:136:MET:CE	1.92	0.99
1:P:723:ARG:HE	1:P:779:ARG:HA	1.23	0.99
3:R:48:LYS:O	3:R:52:ASN:ND2	1.94	0.99
4:3:287:ILE:HD13	4:5:203:THR:HB	1.42	0.99
4:9:322:PRO:HB3	4:W:244:ASP:OD2	1.62	0.99
1:D:576:GLU:HG2	1:D:577:ALA:H	0.85	0.99
1:D:639:GLY:CA	4:9:345:ILE:CA	2.40	0.99
2:E:141:PRO:HB2	2:E:142:PRO:HD2	1.44	0.99
1:G:642:LYS:HD3	4:V:340:TRP:CH2	1.96	0.99
1:G:797:PHE:HZ	3:I:146:ILE:HD11	1.27	0.99
1:J:641:LYS:HE3	1:J:647:GLN:CB	1.91	0.99
2:K:121:LEU:CB	2:K:128:PHE:HB3	1.69	0.99
1:M:641:LYS:CG	4:Z:348:SER:HB2	1.86	0.99
1:M:797:PHE:CZ	3:O:146:ILE:HA	1.97	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:121:LEU:HG	2:N:128:PHE:CA	1.59	0.99
2:N:149:ASP:OD2	2:N:150:TYR:O	1.80	0.99
1:P:646:PHE:HE2	1:P:652:LEU:HD21	1.24	0.99
4:4:288:ASP:CG	4:6:203:THR:HG21	1.64	0.99
1:A:506:GLU:HG3	1:A:760:PHE:CD1	1.96	0.99
1:A:814:PHE:HA	2:B:127:ARG:HH11	1.23	0.99
1:D:641:LYS:HE3	1:D:647:GLN:CB	1.91	0.99
1:G:98:HIS:HB3	1:G:100:PRO:HD2	1.42	0.99
1:G:534:SER:O	4:V:351:THR:HA	1.60	0.99
1:G:612:GLN:HE22	1:G:627:GLY:CA	1.75	0.99
1:G:813:ILE:CG2	2:H:128:PHE:CZ	2.44	0.99
1:M:529:PRO:C	4:Z:354:GLN:HB3	1.77	0.99
1:M:767:PHE:HB2	1:M:772:LEU:CD2	1.76	0.99
1:P:709:LYS:C	1:P:710:GLY:N	2.16	0.99
4:7:290:ARG:NH2	4:9:202:THR:CG2	2.23	0.99
1:A:529:PRO:C	4:8:354:GLN:HB3	1.78	0.99
1:A:612:GLN:HE22	1:A:627:GLY:CA	1.75	0.99
1:D:800:ARG:NH2	3:F:40:ASN:OD1	1.87	0.99
1:D:813:ILE:HG23	2:E:128:PHE:CE1	1.96	0.99
1:G:93:MET:CG	1:G:715:VAL:HA	1.91	0.99
1:J:639:GLY:CA	4:W:345:ILE:CA	2.40	0.99
3:L:48:LYS:O	3:L:52:ASN:ND2	1.94	0.99
1:P:206:LYS:HD2	1:P:217:THR:HG23	1.40	0.99
1:P:218:LEU:CA	1:P:221:GLN:HG3	1.91	0.99
1:P:817:GLN:CD	2:Q:127:ARG:HD2	1.81	0.99
4:7:322:PRO:HB3	4:9:244:ASP:OD2	1.62	0.99
1:J:84:MLY:HH23	1:J:720:PHE:HA	1.42	0.99
1:J:553:MLY:HE3	4:Y:45:VAL:CG1	1.92	0.99
1:J:649:VAL:CG1	1:J:649:VAL:HG22	1.92	0.99
2:K:139:ALA:O	2:K:141:PRO:HD3	1.62	0.99
1:M:218:LEU:CA	1:M:221:GLN:HG3	1.91	0.99
1:P:836:PHE:CE2	2:Q:160:GLY:N	2.31	0.99
4:2:287:ILE:HD13	4:4:203:THR:CB	1.93	0.99
4:8:322:PRO:HB3	4:V:244:ASP:OD2	1.62	0.99
4:X:287:ILE:HG13	4:Z:201:VAL:HG21	1.03	0.99
1:A:506:GLU:CG	1:A:760:PHE:C	2.06	0.99
1:A:797:PHE:HD1	3:C:146:ILE:O	1.36	0.99
1:G:576:GLU:CG	1:G:577:ALA:H	1.75	0.99
2:H:149:ASP:OD2	2:H:150:TYR:O	1.80	0.99
3:L:49:ILE:HA	3:L:52:ASN:HD22	1.23	0.99
1:M:215:GLN:CA	1:M:340:ILE:HG23	1.92	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:641:LYS:HE3	1:M:647:GLN:CB	1.91	0.99
1:P:783:LEU:HB3	1:P:786:ILE:HD11	1.44	0.99
4:X:291:LYS:CG	4:Z:246:GLN:N	2.19	0.99
2:B:112:ILE:O	2:B:147:ASN:C	2.01	0.99
1:J:612:GLN:HE22	1:J:627:GLY:CA	1.75	0.99
4:7:286:ASP:OD1	4:9:203:THR:HG22	1.62	0.99
1:A:553:MLY:HB3	4:V:46:GLY:CA	1.50	0.99
1:A:576:GLU:HG2	1:A:577:ALA:H	0.85	0.99
2:H:139:ALA:O	2:H:141:PRO:HD3	1.62	0.99
2:K:117:LEU:CB	2:K:147:ASN:CG	2.32	0.99
1:M:806:MET:CB	1:M:807:VAL:N	2.25	0.99
1:A:28:GLN:HE22	1:A:723:ARG:HH21	0.99	0.99
1:A:815:CYS:SG	2:B:92:ASP:HB2	2.03	0.99
1:D:708:ARG:C	1:D:710:GLY:N	2.16	0.99
1:G:534:SER:C	4:V:351:THR:HA	1.82	0.99
1:G:829:TRP:CZ3	2:H:87:LYS:NZ	2.30	0.99
1:J:97:LEU:HD23	1:J:712:PRO:CB	1.93	0.99
1:J:98:HIS:HB3	1:J:100:PRO:HD2	1.42	0.99
1:P:639:GLY:CA	4:I:345:ILE:CA	2.40	0.99
1:A:218:LEU:CA	1:A:221:GLN:HG3	1.91	0.98
1:D:215:GLN:CA	1:D:340:ILE:HG23	1.92	0.98
1:D:649:VAL:CG1	1:D:649:VAL:HG22	1.92	0.98
2:E:117:LEU:CB	2:E:147:ASN:CG	2.32	0.98
2:H:112:ILE:O	2:H:147:ASN:C	2.01	0.98
1:P:795:ARG:NE	3:R:116:GLU:OE2	1.59	0.98
4:9:286:ASP:OD1	4:W:203:THR:HG22	1.62	0.98
1:A:530:MET:HE2	4:8:354:GLN:CG	1.93	0.98
1:A:707:CYS:C	1:A:714:ARG:NH2	2.16	0.98
1:G:639:GLY:CA	4:V:345:ILE:CA	2.40	0.98
1:G:755:HIS:HB2	1:G:779:ARG:NH2	1.78	0.98
2:K:150:TYR:C	2:K:151:LYS:HG3	1.83	0.98
1:M:831:TRP:HH2	2:N:47:LEU:CD2	1.69	0.98
1:P:805:ALA:O	1:P:809:ARG:N	1.94	0.98
1:G:641:LYS:CG	4:V:348:SER:HB2	1.87	0.98
1:G:784:ALA:O	1:G:788:THR:N	1.96	0.98
1:M:649:VAL:CG1	1:M:649:VAL:HG22	1.92	0.98
2:N:139:ALA:O	2:N:141:PRO:HD3	1.62	0.98
2:N:150:TYR:O	2:N:151:LYS:CB	2.06	0.98
1:A:215:GLN:CA	1:A:340:ILE:HG23	1.92	0.98
1:D:831:TRP:CD1	2:E:51:PHE:HZ	1.81	0.98
1:G:215:GLN:CA	1:G:340:ILE:HG23	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:529:PRO:C	4:V:354:GLN:HB3	1.79	0.98
1:G:795:ARG:HH21	3:I:116:GLU:HG2	1.05	0.98
1:J:797:PHE:HE1	3:L:146:ILE:HA	1.28	0.98
4:4:322:PRO:CB	4:6:244:ASP:CB	2.40	0.98
1:A:530:MET:CE	4:8:354:GLN:CG	2.40	0.98
1:D:727:LEU:CD1	1:D:782:MLY:HG2	1.77	0.98
1:P:798:LEU:CG	3:R:126:LEU:HD11	1.93	0.98
4:9:287:ILE:HB	4:W:204:ALA:H	1.25	0.98
4:W:286:ASP:OD2	4:Y:203:THR:HG22	1.62	0.98
1:D:819:ASN:ND2	2:E:90:GLY:O	1.97	0.98
1:G:797:PHE:CE2	3:I:126:LEU:HD13	1.98	0.98
2:H:150:TYR:C	2:H:151:LYS:HG3	1.83	0.98
1:P:798:LEU:CD1	3:R:126:LEU:CD1	2.28	0.98
1:A:206:LYS:HD2	1:A:217:THR:HG23	1.41	0.98
1:A:639:GLY:CA	4:8:345:ILE:CA	2.41	0.98
2:B:141:PRO:HB2	2:B:142:PRO:HD2	1.44	0.98
1:D:506:GLU:CG	1:D:764:MLY:HE3	1.94	0.98
3:F:52:ASN:HB2	3:F:53:PRO:HD3	1.45	0.98
1:G:649:VAL:CG1	1:G:649:VAL:HG22	1.92	0.98
1:J:28:GLN:HA	1:J:723:ARG:HH22	1.15	0.98
1:J:797:PHE:CE1	3:L:146:ILE:CB	2.46	0.98
1:M:576:GLU:HG2	1:M:577:ALA:H	0.85	0.98
1:P:649:VAL:CG1	1:P:649:VAL:HG22	1.92	0.98
1:A:757:GLN:OE1	1:A:771:LEU:HD12	1.03	0.98
1:D:530:MET:CE	4:9:354:GLN:CG	2.40	0.98
1:D:727:LEU:CG	1:D:782:MLY:HG3	1.91	0.98
1:D:814:PHE:HA	2:E:127:ARG:HH11	1.16	0.98
2:E:139:ALA:O	2:E:141:PRO:HD3	1.62	0.98
1:G:218:LEU:CA	1:G:221:GLN:HG3	1.91	0.98
2:N:112:ILE:O	2:N:147:ASN:C	2.01	0.98
1:P:206:LYS:CD	1:P:217:THR:CG2	2.16	0.98
1:P:548:THR:HG21	4:3:49:GLN:N	1.77	0.98
2:Q:117:LEU:CB	2:Q:147:ASN:CG	2.32	0.98
4:2:324:THR:OG1	4:4:244:ASP:CA	2.12	0.98
1:A:646:PHE:HE2	1:A:652:LEU:HD21	1.24	0.98
3:C:52:ASN:HB2	3:C:53:PRO:HD3	1.45	0.98
2:E:130:PRO:O	2:E:133:ILE:N	1.96	0.98
1:G:829:TRP:HZ3	2:H:84:PHE:CZ	1.81	0.98
2:H:141:PRO:HB2	2:H:142:PRO:HD2	1.44	0.98
3:L:46:ILE:O	3:L:50:LEU:HG	1.64	0.98
1:P:612:GLN:HE22	1:P:627:GLY:CA	1.75	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:798:LEU:HD11	3:R:126:LEU:HD11	0.98	0.98
2:Q:139:ALA:O	2:Q:141:PRO:HD3	1.62	0.98
1:A:218:LEU:CA	1:A:221:GLN:CG	2.42	0.98
1:G:553:MLY:CE	4:X:45:VAL:HB	1.91	0.98
2:K:141:PRO:HB2	2:K:142:PRO:HD2	1.44	0.98
2:K:149:ASP:OD2	2:K:150:TYR:O	1.80	0.98
1:M:767:PHE:CD1	1:M:772:LEU:HD11	1.98	0.98
1:P:84:MLY:HD2	1:P:776:GLU:OE1	1.63	0.98
2:B:150:TYR:C	2:B:151:LYS:HG3	1.83	0.97
3:I:24:LYS:HG2	3:I:63:ILE:O	1.60	0.97
4:2:203:THR:HG22	4:Z:287:ILE:HG22	1.44	0.97
4:8:286:ASP:OD1	4:V:203:THR:HG22	1.62	0.97
1:A:797:PHE:CZ	3:C:146:ILE:HD12	1.83	0.97
2:B:117:LEU:CB	2:B:147:ASN:CG	2.32	0.97
2:B:149:ASP:OD2	2:B:150:TYR:O	1.80	0.97
1:D:542:PHE:CG	4:9:143:TYR:CE1	2.52	0.97
1:D:635:GLY:HA3	4:9:334:GLU:HG2	1.47	0.97
2:E:121:LEU:CB	2:E:128:PHE:HB3	1.69	0.97
1:G:707:CYS:SG	1:G:714:ARG:CZ	2.52	0.97
1:J:84:MLY:O	1:J:723:ARG:HD2	1.64	0.97
1:J:795:ARG:CZ	3:L:116:GLU:CD	2.32	0.97
1:M:84:MLY:HH13	1:M:776:GLU:OE2	1.62	0.97
1:M:836:PHE:HE1	2:N:159:HIS:HA	1.20	0.97
2:N:117:LEU:CB	2:N:147:ASN:CG	2.32	0.97
1:P:817:GLN:HB3	2:Q:127:ARG:HH11	1.26	0.97
1:P:826:VAL:HG21	2:Q:88:LEU:CD2	1.93	0.97
3:R:46:ILE:O	3:R:50:LEU:HG	1.64	0.97
1:G:826:VAL:HG21	2:H:88:LEU:HD21	1.46	0.97
1:J:754:ASP:CA	1:J:780:ASP:OD2	2.11	0.97
1:M:612:GLN:HE22	1:M:627:GLY:CA	1.75	0.97
1:P:641:LYS:HE3	4:1:348:SER:O	1.55	0.97
3:C:46:ILE:O	3:C:50:LEU:HG	1.64	0.97
1:J:542:PHE:CG	4:W:143:TYR:CE1	2.53	0.97
1:P:642:LYS:HG2	4:1:21:PHE:O	1.65	0.97
1:P:724:TYR:OH	1:P:775:LEU:CG	2.12	0.97
2:Q:130:PRO:O	2:Q:133:ILE:N	1.96	0.97
1:A:149:GLN:HB3	1:A:719:ASP:CA	1.95	0.97
1:A:642:LYS:HD2	4:8:24:ASP:O	1.64	0.97
2:E:150:TYR:C	2:E:151:LYS:HG3	1.83	0.97
2:H:130:PRO:O	2:H:133:ILE:N	1.96	0.97
2:N:130:PRO:O	2:N:133:ILE:N	1.96	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:635:GLY:HA3	4:1:334:GLU:HG2	1.47	0.97
1:A:649:VAL:CG1	1:A:649:VAL:HG22	1.92	0.97
1:A:797:PHE:CE1	3:C:146:ILE:O	2.17	0.97
2:E:112:ILE:O	2:E:147:ASN:C	2.01	0.97
1:G:218:LEU:CA	1:G:221:GLN:CG	2.42	0.97
1:J:83:PRO:O	1:J:723:ARG:NH2	1.97	0.97
1:J:635:GLY:HA3	4:W:334:GLU:HG2	1.47	0.97
2:K:144:VAL:HG13	2:K:153:ILE:HD11	1.21	0.97
1:M:218:LEU:CA	1:M:221:GLN:CG	2.42	0.97
1:M:534:SER:O	4:Z:351:THR:HA	1.59	0.97
1:M:641:LYS:HG3	1:M:647:GLN:NE2	1.59	0.97
1:M:642:LYS:HG2	4:Z:21:PHE:O	1.65	0.97
1:P:174:SER:HB3	1:P:667:THR:HG21	1.44	0.97
2:Q:150:TYR:C	2:Q:151:LYS:HG3	1.83	0.97
3:R:52:ASN:HB2	3:R:53:PRO:HD3	1.46	0.97
4:1:287:ILE:CG2	4:3:203:THR:CG2	2.31	0.97
4:4:288:ASP:H	4:6:203:THR:HG22	1.29	0.97
1:A:92:ALA:O	1:A:713:SER:HA	1.64	0.97
2:B:121:LEU:HG	2:B:128:PHE:CA	1.59	0.97
1:D:218:LEU:CA	1:D:221:GLN:CG	2.42	0.97
1:D:769:ALA:C	1:D:774:LEU:HB2	1.85	0.97
1:D:815:CYS:SG	2:E:92:ASP:CG	2.41	0.97
1:G:215:GLN:H	1:G:340:ILE:CG1	1.72	0.97
1:G:798:LEU:HD23	3:I:118:MET:HB3	1.42	0.97
1:J:174:SER:HB3	1:J:667:THR:HG21	1.44	0.97
2:K:150:TYR:O	2:K:151:LYS:HG3	1.65	0.97
1:M:723:ARG:HD2	1:M:779:ARG:HE	1.30	0.97
1:M:819:ASN:ND2	2:N:92:ASP:CB	2.25	0.97
1:P:641:LYS:CG	4:1:348:SER:HB2	1.86	0.97
2:Q:112:ILE:O	2:Q:147:ASN:C	2.01	0.97
1:A:641:LYS:HD2	1:A:647:GLN:CD	1.70	0.97
1:A:642:LYS:HG2	4:8:21:PHE:O	1.65	0.97
1:A:818:TYR:CB	2:B:90:GLY:CA	2.27	0.97
1:A:837:MLY:HH21	2:H:20:ASP:HA	1.44	0.97
1:D:215:GLN:H	1:D:340:ILE:CG1	1.73	0.97
1:G:642:LYS:HD2	4:V:24:ASP:O	1.64	0.97
1:J:754:ASP:CB	1:J:780:ASP:OD2	2.13	0.97
1:M:576:GLU:CG	1:M:577:ALA:H	1.75	0.97
1:P:530:MET:CE	4:1:354:GLN:CG	2.40	0.97
2:Q:117:LEU:HD13	2:Q:147:ASN:OD1	1.64	0.97
1:A:797:PHE:CZ	3:C:146:ILE:HA	2.00	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:130:PRO:O	2:B:133:ILE:N	1.96	0.97
1:D:831:TRP:CH2	2:E:34:ILE:CG2	2.47	0.97
1:G:795:ARG:HH21	3:I:116:GLU:CG	1.77	0.97
1:G:838:ILE:HD12	2:H:54:MET:HE3	1.45	0.97
2:H:117:LEU:CB	2:H:147:ASN:CG	2.32	0.97
1:J:218:LEU:CA	1:J:221:GLN:CG	2.42	0.97
1:M:639:GLY:N	4:Z:345:ILE:N	1.94	0.97
1:P:537:GLU:C	4:1:349:LEU:CD1	2.20	0.97
4:8:287:ILE:HB	4:V:204:ALA:H	1.25	0.97
4:X:291:LYS:HG3	4:Z:246:GLN:H	1.20	0.97
1:D:174:SER:HB3	1:D:667:THR:HG21	1.44	0.97
2:K:112:ILE:O	2:K:147:ASN:C	2.02	0.97
4:2:287:ILE:CG1	4:4:202:THR:HA	1.92	0.97
1:A:537:GLU:C	4:8:349:LEU:CD1	2.20	0.96
1:A:639:GLY:N	4:8:345:ILE:N	1.94	0.96
1:G:149:GLN:CB	1:G:716:LEU:HD21	1.95	0.96
3:I:52:ASN:HB2	3:I:53:PRO:HD3	1.46	0.96
1:J:756:THR:C	1:J:776:GLU:OE1	2.03	0.96
1:M:639:GLY:CA	4:Z:345:ILE:CA	2.40	0.96
2:N:150:TYR:C	2:N:151:LYS:HG3	1.83	0.96
1:P:218:LEU:CA	1:P:221:GLN:CG	2.42	0.96
4:1:166:TYR:OH	4:3:64:ILE:HG21	1.65	0.96
4:1:205:GLU:HG3	4:Y:287:ILE:CD1	1.95	0.96
1:A:93:MET:HG2	1:A:715:VAL:HG22	1.43	0.96
1:A:541:MET:N	4:8:349:LEU:HD21	1.80	0.96
1:D:815:CYS:SG	2:E:92:ASP:CB	2.53	0.96
1:G:553:MLY:HH12	4:X:45:VAL:HG21	1.46	0.96
1:G:795:ARG:HB2	3:I:35:ARG:HH12	1.23	0.96
2:H:150:TYR:O	2:H:151:LYS:HG3	1.65	0.96
1:J:649:VAL:CG2	1:J:649:VAL:CA	2.43	0.96
4:2:287:ILE:CG2	4:4:204:ALA:H	1.78	0.96
1:A:542:PHE:CG	4:8:143:TYR:CE1	2.52	0.96
1:A:791:GLN:HE22	3:C:115:GLY:C	1.69	0.96
2:E:144:VAL:HG13	2:E:153:ILE:HG12	1.14	0.96
1:J:94:MET:O	1:J:713:SER:HB3	0.78	0.96
1:M:737:PHE:HZ	3:O:85:GLU:OE2	1.34	0.96
1:M:821:ARG:HH21	2:N:127:ARG:HG2	1.14	0.96
1:P:817:GLN:HG2	2:Q:127:ARG:CB	1.95	0.96
4:4:322:PRO:HB2	4:6:244:ASP:CB	1.95	0.96
2:B:111:SER:CB	2:B:148:VAL:C	1.93	0.96
1:G:649:VAL:CG2	1:G:649:VAL:CA	2.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:798:LEU:CD1	3:L:126:LEU:CD1	2.27	0.96
1:M:649:VAL:CG2	1:M:649:VAL:CA	2.43	0.96
1:M:722:GLN:HB2	3:O:89:GLU:OE2	1.66	0.96
1:M:804:ARG:O	1:M:808:GLU:HG3	1.65	0.96
1:M:834:LEU:HD13	2:N:51:PHE:HE1	1.30	0.96
3:O:46:ILE:O	3:O:50:LEU:HG	1.64	0.96
1:P:800:ARG:HB3	3:R:149:VAL:CG2	1.95	0.96
4:1:167:GLU:OE1	4:3:42:GLY:HA3	1.63	0.96
1:D:642:LYS:HG2	4:9:21:PHE:O	1.65	0.96
1:G:542:PHE:CG	4:V:143:TYR:CE1	2.53	0.96
1:G:642:LYS:HG2	4:V:21:PHE:O	1.65	0.96
1:G:646:PHE:HE2	1:G:652:LEU:HD21	1.24	0.96
1:M:767:PHE:CG	1:M:772:LEU:HD11	1.99	0.96
1:P:789:ALA:CB	3:R:81:GLN:CG	2.42	0.96
2:Q:150:TYR:O	2:Q:151:LYS:HG3	1.65	0.96
4:1:205:GLU:HG3	4:Y:287:ILE:HB	0.97	0.96
1:A:95:THR:OG1	1:A:769:ALA:HA	1.62	0.96
1:A:534:SER:O	4:8:351:THR:HA	1.60	0.96
1:D:727:LEU:CG	1:D:782:MLY:CE	2.38	0.96
1:D:736:GLN:CA	1:D:743:ALA:HB2	1.95	0.96
1:G:93:MET:SD	1:G:716:LEU:N	2.38	0.96
1:G:817:GLN:NE2	2:H:127:ARG:HB2	1.80	0.96
1:J:530:MET:CE	4:W:354:GLN:CG	2.40	0.96
1:M:542:PHE:CG	4:Z:143:TYR:CE1	2.53	0.96
1:M:543:PRO:CG	4:Z:143:TYR:O	2.14	0.96
1:M:834:LEU:CD1	2:N:51:PHE:CE1	2.49	0.96
1:P:542:PHE:CG	4:1:143:TYR:CE1	2.53	0.96
1:G:94:MET:O	1:G:713:SER:CB	2.12	0.96
1:G:538:GLU:HG3	4:V:352:PHE:N	1.81	0.96
1:G:769:ALA:CB	1:G:770:GLY:CA	2.44	0.96
1:J:642:LYS:HG2	4:W:21:PHE:O	1.65	0.96
1:P:821:ARG:HH22	2:Q:127:ARG:HG2	1.30	0.96
1:M:713:SER:HB2	1:M:772:LEU:HD23	1.46	0.96
1:A:501:GLU:CG	1:A:762:HIS:ND1	2.26	0.96
1:D:637:LYS:NZ	4:9:141:SER:O	1.99	0.96
1:D:795:ARG:NE	3:F:116:GLU:OE2	1.98	0.96
1:G:28:GLN:CB	1:G:723:ARG:HH12	1.78	0.96
1:G:797:PHE:HE2	3:I:126:LEU:HD13	1.27	0.96
1:J:505:MLY:HD2	1:J:762:HIS:ND1	1.79	0.96
1:J:735:GLY:C	1:J:743:ALA:CA	2.34	0.96
1:M:806:MET:HB2	1:M:807:VAL:N	1.81	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:637:LYS:NZ	4:1:141:SER:O	1.98	0.96
1:P:649:VAL:CG2	1:P:649:VAL:CA	2.43	0.96
4:X:286:ASP:OD1	4:Z:205:GLU:CG	2.14	0.96
1:A:649:VAL:CG2	1:A:649:VAL:CA	2.43	0.96
2:B:121:LEU:HG	2:B:128:PHE:HA	1.46	0.96
1:D:649:VAL:CG2	1:D:649:VAL:CA	2.42	0.96
2:E:150:TYR:O	2:E:151:LYS:HG3	1.65	0.96
3:F:46:ILE:O	3:F:50:LEU:HG	1.65	0.96
1:G:708:ARG:CA	1:G:712:PRO:HG3	1.96	0.96
2:H:117:LEU:HD13	2:H:147:ASN:OD1	1.64	0.96
1:J:537:GLU:C	4:W:349:LEU:CD1	2.20	0.96
1:J:543:PRO:CG	4:W:143:TYR:O	2.14	0.96
3:L:52:ASN:HB2	3:L:53:PRO:HD3	1.46	0.96
4:2:322:PRO:CB	4:4:244:ASP:CB	2.44	0.96
1:A:149:GLN:HG2	1:A:719:ASP:H	1.27	0.95
1:D:649:VAL:CG1	1:D:649:VAL:CG2	2.43	0.95
1:D:814:PHE:CA	2:E:127:ARG:NH1	2.27	0.95
1:G:649:VAL:CG1	1:G:649:VAL:CG2	2.43	0.95
1:J:538:GLU:HG3	4:W:352:PHE:N	1.81	0.95
1:J:838:ILE:CD1	2:K:54:MET:HE1	1.88	0.95
2:K:130:PRO:O	2:K:133:ILE:N	1.96	0.95
1:M:642:LYS:HD2	4:Z:24:ASP:O	1.65	0.95
1:M:797:PHE:HZ	3:O:146:ILE:CD1	1.53	0.95
3:O:52:ASN:HB2	3:O:53:PRO:HD3	1.46	0.95
1:P:538:GLU:HG3	4:1:352:PHE:N	1.81	0.95
1:P:817:GLN:HB3	2:Q:127:ARG:CD	1.96	0.95
4:V:286:ASP:CG	4:X:203:THR:HG22	1.87	0.95
1:A:543:PRO:CG	4:8:143:TYR:O	2.14	0.95
1:A:753:VAL:HG12	1:A:775:LEU:CD2	1.96	0.95
1:D:538:GLU:HG3	4:9:352:PHE:N	1.82	0.95
1:D:543:PRO:CG	4:9:143:TYR:O	2.14	0.95
2:E:163:ALA:CA	2:K:21:GLU:HB3	1.96	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	1.98	0.95
1:M:649:VAL:CG1	1:M:649:VAL:CG2	2.43	0.95
1:M:721:LYS:CA	1:M:736:GLN:CD	2.34	0.95
2:N:121:LEU:HG	2:N:128:PHE:HA	1.47	0.95
1:P:84:MLY:HH13	1:P:776:GLU:OE2	1.65	0.95
1:P:642:LYS:HD2	4:1:24:ASP:O	1.64	0.95
1:P:735:GLY:C	1:P:743:ALA:CA	2.34	0.95
4:2:287:ILE:HG12	4:4:202:THR:HA	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:325:MET:HE2	4:X:244:ASP:OD2	1.66	0.95
1:G:637:LYS:NZ	4:V:141:SER:O	1.99	0.95
1:G:754:ASP:HB2	1:G:776:GLU:CA	1.95	0.95
2:H:121:LEU:HG	2:H:128:PHE:HA	1.46	0.95
1:J:649:VAL:CG1	1:J:649:VAL:CG2	2.43	0.95
1:J:838:ILE:CD1	2:K:54:MET:HE3	1.88	0.95
2:Q:141:PRO:HB2	2:Q:142:PRO:HD2	1.44	0.95
1:G:534:SER:O	4:V:351:THR:HG23	1.12	0.95
1:G:543:PRO:CG	4:V:143:TYR:O	2.14	0.95
1:J:783:LEU:O	1:J:787:ILE:N	1.99	0.95
1:P:543:PRO:CG	4:1:143:TYR:O	2.14	0.95
1:P:798:LEU:HD11	3:R:126:LEU:HD13	1.48	0.95
1:A:538:GLU:N	4:8:349:LEU:CD1	2.28	0.95
1:A:735:GLY:C	1:A:743:ALA:CA	2.34	0.95
3:I:46:ILE:O	3:I:50:LEU:HG	1.64	0.95
1:J:817:GLN:CB	2:K:127:ARG:CD	2.43	0.95
2:B:150:TYR:O	2:B:151:LYS:HG3	1.65	0.95
1:D:538:GLU:N	4:9:349:LEU:CD1	2.28	0.95
1:D:553:MLY:HB3	4:W:46:GLY:HA2	1.47	0.95
1:D:727:LEU:HD11	1:D:782:MLY:CD	1.82	0.95
1:D:735:GLY:C	1:D:743:ALA:CA	2.34	0.95
1:D:795:ARG:NH2	3:F:116:GLU:CG	2.29	0.95
1:D:813:ILE:CG2	2:E:128:PHE:CE1	2.49	0.95
1:D:818:TYR:HB3	2:E:90:GLY:N	1.81	0.95
1:G:215:GLN:HA	1:G:340:ILE:HG23	0.95	0.95
1:J:721:LYS:CA	1:J:736:GLN:CD	2.34	0.95
1:J:829:TRP:CH2	2:K:87:LYS:HE2	2.00	0.95
1:M:637:LYS:NZ	4:Z:141:SER:O	1.98	0.95
2:Q:144:VAL:HG13	2:Q:153:ILE:HG12	1.14	0.95
1:A:553:MLY:HB3	4:V:46:GLY:HA2	1.47	0.95
1:D:642:LYS:HD2	4:9:24:ASP:O	1.64	0.95
1:G:530:MET:HA	4:V:354:GLN:HG3	0.97	0.95
1:J:546:THR:HG22	1:J:548:THR:H	1.32	0.95
1:M:821:ARG:HH22	2:N:127:ARG:HG2	1.23	0.95
1:P:649:VAL:CG1	1:P:649:VAL:CG2	2.43	0.95
1:P:829:TRP:CH2	2:Q:87:LYS:HE2	2.02	0.95
1:A:538:GLU:HG3	4:8:352:PHE:N	1.82	0.95
1:A:721:LYS:CA	1:A:736:GLN:CD	2.34	0.95
1:A:736:GLN:CA	1:A:743:ALA:HB2	1.95	0.95
2:E:117:LEU:HD13	2:E:147:ASN:OD1	1.64	0.95
1:G:541:MET:N	4:V:349:LEU:HD21	1.80	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:797:PHE:HE1	3:L:146:ILE:CA	1.79	0.95
2:K:121:LEU:HG	2:K:128:PHE:HA	1.47	0.95
1:M:538:GLU:HG3	4:Z:352:PHE:N	1.81	0.95
1:M:538:GLU:N	4:Z:349:LEU:CD1	2.28	0.95
1:M:783:LEU:CA	1:M:786:ILE:HG13	1.97	0.95
1:P:215:GLN:H	1:P:340:ILE:CG1	1.72	0.95
1:P:767:PHE:HB2	1:P:772:LEU:HD21	0.97	0.95
1:D:530:MET:CA	4:9:354:GLN:CG	2.44	0.95
1:D:721:LYS:CA	1:D:736:GLN:CD	2.34	0.95
1:D:798:LEU:HD11	3:F:126:LEU:CG	1.97	0.95
1:G:28:GLN:CB	1:G:723:ARG:NH2	2.21	0.95
1:G:642:LYS:CG	4:V:23:GLY:H	1.76	0.95
1:J:510:TRP:CH2	1:J:772:LEU:HD11	2.01	0.95
1:M:723:ARG:HH22	1:M:783:LEU:HD13	0.80	0.95
4:2:287:ILE:HB	4:4:203:THR:N	1.82	0.95
1:A:499:GLU:OE1	1:A:766:PHE:CE2	2.20	0.95
1:A:649:VAL:CG1	1:A:649:VAL:CG2	2.44	0.95
2:B:117:LEU:HD13	2:B:147:ASN:OD1	1.64	0.95
2:B:150:TYR:O	2:B:151:LYS:CG	2.15	0.95
1:G:721:LYS:CA	1:G:736:GLN:CD	2.34	0.95
1:J:754:ASP:CG	1:J:780:ASP:OD2	2.04	0.95
2:K:150:TYR:O	2:K:151:LYS:CG	2.15	0.95
2:N:117:LEU:HD13	2:N:147:ASN:OD1	1.64	0.95
2:Q:150:TYR:O	2:Q:151:LYS:HB2	1.67	0.95
4:4:324:THR:HG23	4:6:244:ASP:C	1.86	0.95
1:J:206:LYS:CD	1:J:217:THR:CG2	2.16	0.94
2:N:150:TYR:O	2:N:151:LYS:HG3	1.65	0.94
1:A:557:GLU:H	4:V:48:GLY:HA2	1.32	0.94
2:H:150:TYR:O	2:H:151:LYS:CG	2.15	0.94
1:M:735:GLY:C	1:M:743:ALA:CA	2.34	0.94
1:M:834:LEU:HD13	2:N:51:PHE:CE1	2.01	0.94
1:P:538:GLU:N	4:1:349:LEU:CD1	2.28	0.94
1:P:723:ARG:NE	1:P:779:ARG:CB	2.27	0.94
1:P:789:ALA:HB1	3:R:81:GLN:CG	1.94	0.94
1:A:501:GLU:HG2	1:A:762:HIS:CE1	2.02	0.94
2:B:150:TYR:O	2:B:151:LYS:HB2	1.67	0.94
1:J:642:LYS:HD2	4:W:24:ASP:O	1.65	0.94
1:J:817:GLN:CG	2:K:127:ARG:HB2	1.97	0.94
1:P:829:TRP:CH2	2:Q:87:LYS:CE	2.51	0.94
4:1:245:GLY:H	4:Y:291:LYS:HG3	1.27	0.94
4:3:288:ASP:N	4:5:203:THR:HG22	1.80	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:288:ASP:HA	4:V:204:ALA:HB2	1.48	0.94
1:D:530:MET:HA	4:9:354:GLN:HG3	0.96	0.94
1:G:556:ASP:OD1	4:X:47:MET:HE3	1.66	0.94
1:M:826:VAL:HG21	2:N:88:LEU:HD21	1.50	0.94
2:N:150:TYR:O	2:N:151:LYS:CG	2.15	0.94
1:A:814:PHE:CA	2:B:127:ARG:HH11	1.70	0.94
1:D:797:PHE:CE1	3:F:146:ILE:CG2	2.45	0.94
2:E:121:LEU:HG	2:E:128:PHE:HA	1.46	0.94
2:H:121:LEU:HG	2:H:128:PHE:CA	1.60	0.94
1:J:538:GLU:N	4:W:349:LEU:CD1	2.28	0.94
1:M:737:PHE:HE2	3:O:84:PHE:CE2	1.80	0.94
2:Q:121:LEU:HG	2:Q:128:PHE:CA	1.59	0.94
1:A:530:MET:HA	4:8:354:GLN:HG3	0.96	0.94
1:A:795:ARG:NE	3:C:116:GLU:OE2	2.00	0.94
1:D:206:LYS:CD	1:D:217:THR:CG2	2.16	0.94
1:D:815:CYS:SG	2:E:92:ASP:OD1	2.23	0.94
1:J:218:LEU:CB	1:J:221:GLN:CG	2.46	0.94
1:A:149:GLN:CB	1:A:718:ALA:CB	2.36	0.94
1:D:541:MET:N	4:9:349:LEU:HD21	1.80	0.94
2:E:163:ALA:O	2:K:21:GLU:N	2.01	0.94
1:G:546:THR:HG22	1:G:548:THR:H	1.32	0.94
1:G:639:GLY:N	4:V:345:ILE:N	1.94	0.94
1:G:641:LYS:HD2	1:G:647:GLN:CD	1.70	0.94
1:J:530:MET:CA	4:W:354:GLN:CG	2.44	0.94
1:P:530:MET:HA	4:1:354:GLN:HG3	0.96	0.94
1:P:612:GLN:NE2	1:P:627:GLY:HA3	1.83	0.94
1:P:799:MET:SD	3:R:32:ASP:CG	2.46	0.94
1:J:612:GLN:NE2	1:J:627:GLY:HA3	1.83	0.94
1:J:641:LYS:HG3	1:J:647:GLN:NE2	1.58	0.94
1:J:736:GLN:CA	1:J:743:ALA:HB2	1.95	0.94
1:J:798:LEU:HD11	3:L:126:LEU:HD13	1.45	0.94
1:M:530:MET:HA	4:Z:354:GLN:HG3	0.96	0.94
1:M:635:GLY:HA3	4:Z:334:GLU:HG2	1.47	0.94
1:P:721:LYS:CA	1:P:736:GLN:CD	2.34	0.94
4:7:288:ASP:HA	4:9:204:ALA:HB2	1.48	0.94
4:9:288:ASP:HA	4:W:204:ALA:HB2	1.48	0.94
4:X:292:ASP:CG	4:Z:244:ASP:CB	2.34	0.94
1:A:612:GLN:NE2	1:A:627:GLY:HA3	1.83	0.94
1:G:817:GLN:HG2	2:H:127:ARG:CB	1.98	0.94
1:M:612:GLN:NE2	1:M:627:GLY:CA	2.31	0.94
1:A:799:MET:SD	3:C:32:ASP:HA	2.05	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:LEU:CB	1:D:221:GLN:CG	2.46	0.94
2:E:150:TYR:O	2:E:151:LYS:CG	2.15	0.94
1:G:538:GLU:N	4:V:349:LEU:CD1	2.29	0.94
1:J:792:ALA:HA	3:L:42:THR:HA	1.50	0.94
1:J:817:GLN:HB3	2:K:127:ARG:HH11	1.33	0.94
1:M:218:LEU:CB	1:M:221:GLN:CG	2.46	0.94
1:P:819:ASN:OD1	2:Q:92:ASP:CB	2.16	0.94
1:D:215:GLN:HA	1:D:340:ILE:HG23	0.95	0.93
1:G:829:TRP:CZ3	2:H:84:PHE:CZ	2.56	0.93
4:3:322:PRO:CB	4:5:244:ASP:CG	2.37	0.93
1:A:218:LEU:CB	1:A:221:GLN:CG	2.46	0.93
1:A:637:LYS:NZ	4:8:141:SER:O	1.99	0.93
1:A:836:PHE:HZ	2:B:160:GLY:H	1.16	0.93
1:D:612:GLN:NE2	1:D:627:GLY:HA3	1.83	0.93
1:M:530:MET:CE	4:Z:354:GLN:CG	2.40	0.93
1:D:576:GLU:CG	1:D:577:ALA:H	1.75	0.93
1:D:823:PHE:HE1	2:E:160:GLY:HA3	1.32	0.93
1:J:530:MET:HA	4:W:354:GLN:HG3	0.96	0.93
1:J:541:MET:N	4:W:349:LEU:HD21	1.80	0.93
1:J:557:GLU:HA	4:Y:47:MET:HA	1.04	0.93
1:M:215:GLN:HA	1:M:340:ILE:HG23	0.95	0.93
1:P:218:LEU:CB	1:P:221:GLN:CG	2.46	0.93
1:D:629:GLU:CB	1:D:643:GLY:O	2.17	0.93
1:D:727:LEU:HB2	1:D:782:MLY:NZ	1.82	0.93
1:J:736:GLN:HA	1:J:743:ALA:HB2	1.50	0.93
1:M:798:LEU:HD11	3:O:126:LEU:HD13	1.49	0.93
1:M:836:PHE:CE2	2:N:160:GLY:N	2.35	0.93
1:P:530:MET:CA	4:1:354:GLN:CG	2.44	0.93
2:Q:150:TYR:O	2:Q:151:LYS:CG	2.15	0.93
1:A:612:GLN:NE2	1:A:627:GLY:CA	2.31	0.93
1:D:642:LYS:CG	4:9:23:GLY:H	1.77	0.93
1:G:832:MET:SD	2:H:84:PHE:CE2	2.61	0.93
1:J:829:TRP:CH2	2:K:87:LYS:CE	2.51	0.93
2:K:117:LEU:HD13	2:K:147:ASN:OD1	1.64	0.93
1:M:530:MET:CA	4:Z:354:GLN:CG	2.44	0.93
1:M:612:GLN:NE2	1:M:627:GLY:HA3	1.83	0.93
1:M:641:LYS:HD2	1:M:647:GLN:CD	1.70	0.93
1:P:215:GLN:HA	1:P:340:ILE:HG23	0.95	0.93
1:A:707:CYS:HA	1:A:714:ARG:NH1	1.84	0.93
1:D:739:ASP:HB3	1:D:742:LYS:CB	1.98	0.93
1:D:800:ARG:O	3:F:149:VAL:CG2	2.15	0.93

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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	0.93
1:G:797:PHE:CZ	3:I:146:ILE:HD11	2.01	0.93
1:J:84:MLY:CH2	1:J:720:PHE:CA	2.41	0.93
1:P:612:GLN:NE2	1:P:627:GLY:CA	2.31	0.93
1:D:612:GLN:NE2	1:D:627:GLY:CA	2.31	0.93
1:G:97:LEU:CD2	1:G:712:PRO:HB2	1.97	0.93
1:G:754:ASP:CA	1:G:776:GLU:OE1	2.16	0.93
1:M:537:GLU:C	4:Z:349:LEU:CD1	2.20	0.93
1:M:709:LYS:H	1:M:710:GLY:N	1.59	0.93
1:M:818:TYR:CD1	2:N:127:ARG:NH1	2.37	0.93
1:P:797:PHE:HE1	3:R:146:ILE:HA	1.14	0.93
1:P:838:ILE:CD1	2:Q:54:MET:HE1	1.95	0.93
1:A:641:LYS:HG3	1:A:647:GLN:NE2	1.58	0.93
1:A:642:LYS:CG	4:8:23:GLY:H	1.77	0.93
1:D:537:GLU:C	4:9:349:LEU:CD1	2.20	0.93
1:D:642:LYS:CB	4:9:21:PHE:O	2.17	0.93
1:J:612:GLN:NE2	1:J:627:GLY:CA	2.31	0.93
1:M:538:GLU:N	4:Z:351:THR:H	1.67	0.93
1:M:541:MET:N	4:Z:349:LEU:HD21	1.80	0.93
1:M:736:GLN:CA	1:M:743:ALA:HB2	1.95	0.93
1:M:739:ASP:HB3	1:M:742:LYS:CB	1.98	0.93
1:M:838:ILE:CD1	2:N:54:MET:HE1	1.95	0.93
4:2:288:ASP:CG	4:4:203:THR:HG23	1.86	0.93
1:G:635:GLY:HA3	4:V:334:GLU:HG2	1.46	0.93
1:J:542:PHE:HA	4:W:143:TYR:HE1	1.34	0.93
1:J:739:ASP:HB3	1:J:742:LYS:CB	1.98	0.93
2:K:149:ASP:CG	2:K:150:TYR:H	1.73	0.93
2:Q:121:LEU:HG	2:Q:128:PHE:HA	1.47	0.93
4:V:325:MET:CE	4:X:244:ASP:CG	2.37	0.93
1:A:538:GLU:N	4:8:351:THR:H	1.67	0.93
1:D:795:ARG:HB3	3:F:35:ARG:NH2	1.82	0.93
1:J:642:LYS:CG	4:W:23:GLY:H	1.77	0.93
1:M:648:THR:HG21	1:M:651:ALA:HB2	1.50	0.93
1:M:724:TYR:OH	1:M:775:LEU:HB3	1.69	0.93
1:P:541:MET:N	4:1:349:LEU:HD21	1.80	0.93
4:2:287:ILE:CD1	4:4:203:THR:HB	1.98	0.93
4:W:286:ASP:OD1	4:Y:202:THR:HB	1.69	0.93
4:W:325:MET:CE	4:Y:244:ASP:CG	2.37	0.93
1:A:707:CYS:CA	1:A:714:ARG:NH2	2.32	0.92
1:A:739:ASP:HB3	1:A:742:LYS:CB	1.98	0.92
1:D:546:THR:HG22	1:D:548:THR:H	1.32	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:648:THR:HG21	1:D:651:ALA:HB2	1.50	0.92
2:E:121:LEU:CA	2:E:128:PHE:CB	2.46	0.92
1:G:612:GLN:NE2	1:G:627:GLY:CA	2.31	0.92
1:G:612:GLN:NE2	1:G:627:GLY:HA3	1.83	0.92
1:M:206:LYS:CD	1:M:217:THR:CG2	2.16	0.92
1:M:636:LYS:HD2	4:Z:332:PRO:HB3	1.52	0.92
1:M:829:TRP:CH2	2:N:87:LYS:CE	2.52	0.92
1:P:546:THR:HG22	1:P:548:THR:H	1.32	0.92
1:P:736:GLN:CA	1:P:743:ALA:HB2	1.95	0.92
1:A:800:ARG:O	3:C:149:VAL:CG2	2.18	0.92
1:D:724:TYR:HA	1:D:782:MLY:HD2	0.95	0.92
1:D:736:GLN:HA	1:D:743:ALA:HB2	1.51	0.92
1:J:642:LYS:CB	4:W:21:PHE:O	2.17	0.92
1:J:795:ARG:NE	3:L:116:GLU:CD	2.22	0.92
1:M:213:LYS:HA	1:M:220:ASP:CG	1.90	0.92
1:P:629:GLU:CB	1:P:643:GLY:O	2.17	0.92
1:D:726:VAL:HG12	1:D:785:GLU:CB	1.99	0.92
1:G:213:LYS:HA	1:G:220:ASP:CG	1.90	0.92
1:G:278:GLN:HG2	1:G:317:GLU:HB2	1.52	0.92
1:G:795:ARG:CB	3:I:118:MET:HE1	1.99	0.92
1:A:278:GLN:HG2	1:A:317:GLU:HB2	1.52	0.92
1:G:641:LYS:HG3	1:G:647:GLN:NE2	1.58	0.92
1:J:215:GLN:HA	1:J:340:ILE:HG23	0.95	0.92
1:J:641:LYS:HE3	1:J:647:GLN:CG	2.00	0.92
1:M:629:GLU:CB	1:M:643:GLY:O	2.17	0.92
1:P:542:PHE:HA	4:1:143:TYR:HE1	1.34	0.92
1:P:739:ASP:HB3	1:P:742:LYS:CB	1.99	0.92
1:A:213:LYS:HA	1:A:220:ASP:CG	1.90	0.92
1:G:149:GLN:CG	1:G:716:LEU:HD11	1.99	0.92
1:G:503:TYR:HE1	1:G:711:PHE:CD2	1.85	0.92
1:G:788:THR:O	3:I:42:THR:HG21	1.69	0.92
1:J:629:GLU:CB	1:J:643:GLY:O	2.17	0.92
1:J:831:TRP:HH2	2:K:47:LEU:HD21	0.97	0.92
1:P:642:LYS:CB	4:1:21:PHE:O	2.17	0.92
4:1:167:GLU:CD	4:3:42:GLY:CA	2.36	0.92
4:2:288:ASP:N	4:4:203:THR:HG22	1.82	0.92
1:D:542:PHE:HA	4:9:143:TYR:HE1	1.34	0.92
1:G:648:THR:HG21	1:G:651:ALA:HB2	1.50	0.92
2:K:150:TYR:O	2:K:151:LYS:HB2	1.67	0.92
4:1:113:LYS:NZ	4:2:252:ASN:HB2	1.84	0.92
1:A:752:ASP:CG	1:A:782:MLY:HD3	1.90	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:213:LYS:HA	1:D:220:ASP:CG	1.90	0.92
1:D:557:GLU:N	4:W:48:GLY:CA	2.12	0.92
1:D:638:GLY:HA3	4:9:341:ILE:O	1.70	0.92
1:D:641:LYS:HE3	1:D:647:GLN:CG	2.00	0.92
1:D:713:SER:CB	1:D:775:LEU:HD22	2.00	0.92
1:J:213:LYS:HA	1:J:220:ASP:CG	1.90	0.92
1:J:553:MLY:HE3	4:Y:45:VAL:HG11	1.47	0.92
1:M:546:THR:HG22	1:M:548:THR:H	1.32	0.92
1:M:798:LEU:CG	3:O:126:LEU:HD11	2.00	0.92
1:P:722:GLN:HE22	3:R:86:ASP:H	0.93	0.92
1:A:735:GLY:C	1:A:743:ALA:HA	1.90	0.92
1:A:798:LEU:CD2	3:C:126:LEU:HD11	1.98	0.92
2:E:162:ASP:O	2:K:21:GLU:HB2	1.69	0.92
1:G:505:MLY:HD2	1:G:762:HIS:HE2	1.23	0.92
1:M:737:PHE:CE2	3:O:85:GLU:CD	2.36	0.92
1:P:213:LYS:HA	1:P:220:ASP:CG	1.90	0.92
1:A:550:PHE:HA	4:V:46:GLY:CA	2.00	0.92
1:A:635:GLY:HA3	4:8:334:GLU:HG2	1.46	0.92
1:D:636:LYS:HD2	4:9:332:PRO:HB3	1.52	0.92
1:G:218:LEU:CB	1:G:221:GLN:CG	2.46	0.92
1:G:629:GLU:CB	1:G:643:GLY:O	2.17	0.92
1:J:821:ARG:HH21	2:K:127:ARG:HG2	1.29	0.92
1:M:735:GLY:C	1:M:743:ALA:HA	1.90	0.92
2:Q:121:LEU:CB	2:Q:128:PHE:HB3	1.69	0.92
4:2:287:ILE:CG1	4:4:202:THR:HB	2.00	0.92
4:X:287:ILE:CG2	4:Z:199:SER:O	2.17	0.92
1:A:546:THR:HG22	1:A:548:THR:H	1.32	0.92
1:D:537:GLU:O	4:9:349:LEU:HD13	0.74	0.92
1:J:218:LEU:HA	1:J:221:GLN:CG	2.00	0.92
1:P:641:LYS:HE3	1:P:647:GLN:CG	2.00	0.92
1:P:792:ALA:HB1	3:R:40:ASN:O	1.69	0.92
4:4:287:ILE:HD13	4:6:203:THR:CB	1.92	0.92
1:A:530:MET:CA	4:8:354:GLN:CG	2.44	0.91
1:A:636:LYS:HD2	4:8:332:PRO:HB3	1.51	0.91
1:G:636:LYS:HD2	4:V:332:PRO:HB3	1.52	0.91
1:J:538:GLU:N	4:W:351:THR:H	1.67	0.91
1:M:819:ASN:OD1	2:N:92:ASP:CB	2.18	0.91
1:P:218:LEU:HA	1:P:221:GLN:CG	2.00	0.91
2:Q:149:ASP:CG	2:Q:150:TYR:H	1.73	0.91
4:2:287:ILE:CG1	4:4:202:THR:CB	2.48	0.91
4:4:322:PRO:HB2	4:6:244:ASP:HB3	1.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:SER:C	4:V:46:GLY:HA3	1.89	0.91
1:G:537:GLU:O	4:V:349:LEU:HD13	0.74	0.91
1:M:537:GLU:O	4:Z:349:LEU:HD13	0.73	0.91
1:M:797:PHE:CZ	3:O:146:ILE:CG2	2.53	0.91
1:M:817:GLN:HB3	2:N:127:ARG:HD2	1.47	0.91
1:A:831:TRP:CE2	2:B:51:PHE:CE1	2.58	0.91
1:G:567:LYS:HZ2	4:X:92:ASN:HD22	1.04	0.91
1:G:821:ARG:HH22	2:H:127:ARG:CG	1.82	0.91
1:G:831:TRP:NE1	2:H:67:MET:HB3	1.86	0.91
1:J:97:LEU:CD2	1:J:712:PRO:CB	2.48	0.91
1:J:537:GLU:O	4:W:349:LEU:HD13	0.73	0.91
1:J:636:LYS:HD2	4:W:332:PRO:HB3	1.52	0.91
1:J:648:THR:HG21	1:J:651:ALA:HB2	1.50	0.91
1:M:538:GLU:N	4:Z:349:LEU:HD12	1.86	0.91
1:A:629:GLU:CB	1:A:643:GLY:O	2.17	0.91
1:A:641:LYS:HE3	1:A:647:GLN:CG	2.00	0.91
1:A:642:LYS:CB	4:8:21:PHE:O	2.17	0.91
1:A:795:ARG:HG2	3:C:118:MET:CE	2.00	0.91
1:G:530:MET:CA	4:V:354:GLN:CG	2.45	0.91
1:G:567:LYS:HZ1	4:X:92:ASN:ND2	1.65	0.91
1:G:736:GLN:CA	1:G:743:ALA:HB2	1.95	0.91
1:G:769:ALA:CB	1:G:770:GLY:HA2	2.00	0.91
1:G:797:PHE:HZ	3:I:146:ILE:CD1	1.42	0.91
1:J:638:GLY:HA3	4:W:341:ILE:O	1.70	0.91
1:J:829:TRP:CE3	2:K:87:LYS:NZ	2.39	0.91
2:K:121:LEU:CA	2:K:128:PHE:CB	2.46	0.91
1:M:278:GLN:HG2	1:M:317:GLU:HB2	1.52	0.91
1:P:649:VAL:CG1	1:P:649:VAL:C	2.38	0.91
1:P:819:ASN:ND2	2:Q:92:ASP:CB	2.30	0.91
4:V:286:ASP:OD2	4:X:203:THR:HG22	1.69	0.91
4:V:324:THR:CG2	4:X:247:VAL:H	1.83	0.91
1:A:206:LYS:CD	1:A:217:THR:CG2	2.16	0.91
1:A:215:GLN:HA	1:A:340:ILE:HG23	0.95	0.91
1:A:836:PHE:CZ	2:B:159:HIS:C	2.43	0.91
1:D:544:LYS:HD2	4:9:147:ARG:HB3	1.53	0.91
1:D:795:ARG:HH21	3:F:116:GLU:CG	1.84	0.91
1:P:278:GLN:HG2	1:P:317:GLU:HB2	1.52	0.91
1:P:537:GLU:O	4:1:349:LEU:HD13	0.73	0.91
1:P:723:ARG:NH2	1:P:779:ARG:C	2.23	0.91
1:A:649:VAL:CG1	1:A:649:VAL:C	2.38	0.91
1:A:814:PHE:N	2:B:127:ARG:NH1	2.17	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:712:PRO:CG	1:D:771:LEU:HB2	1.98	0.91
1:G:739:ASP:HB3	1:G:742:LYS:CB	1.99	0.91
1:J:538:GLU:N	4:W:349:LEU:HD12	1.86	0.91
1:P:630:ALA:O	4:1:25:ASP:CG	2.09	0.91
1:P:636:LYS:HD2	4:1:332:PRO:HB3	1.52	0.91
1:P:817:GLN:CG	2:Q:127:ARG:CD	2.48	0.91
1:A:149:GLN:NE2	1:A:718:ALA:HB2	1.83	0.91
1:A:537:GLU:O	4:8:349:LEU:HD13	0.73	0.91
1:G:642:LYS:CB	4:V:21:PHE:O	2.17	0.91
2:H:150:TYR:O	2:H:151:LYS:HB2	1.67	0.91
1:M:829:TRP:CH2	2:N:87:LYS:HE2	2.06	0.91
1:P:84:MLY:HB3	1:P:780:ASP:OD1	1.70	0.91
1:P:544:LYS:HD2	4:1:147:ARG:HB3	1.53	0.91
1:A:795:ARG:HG2	3:C:118:MET:HE3	1.51	0.91
1:D:218:LEU:HA	1:D:221:GLN:CG	2.01	0.91
1:D:534:SER:HA	4:9:350:SER:O	1.71	0.91
1:D:649:VAL:CG1	1:D:649:VAL:C	2.38	0.91
1:G:218:LEU:HA	1:G:221:GLN:CG	2.01	0.91
1:G:641:LYS:HE3	1:G:647:GLN:CG	2.00	0.91
3:I:62:ALA:O	3:I:63:ILE:CG1	2.19	0.91
1:J:544:LYS:HD2	4:W:147:ARG:HB3	1.53	0.91
1:M:641:LYS:HE3	1:M:647:GLN:CG	2.00	0.91
1:M:642:LYS:CB	4:Z:21:PHE:O	2.17	0.91
1:M:649:VAL:CG1	1:M:649:VAL:C	2.38	0.91
1:P:648:THR:HG21	1:P:651:ALA:HB2	1.50	0.91
1:P:797:PHE:CD1	3:R:146:ILE:HG23	2.06	0.91
1:A:149:GLN:CD	1:A:718:ALA:HB3	1.92	0.91
1:D:557:GLU:H	4:W:48:GLY:HA2	1.32	0.91
1:D:649:VAL:CB	1:D:649:VAL:CG2	2.49	0.91
2:E:149:ASP:CG	2:E:150:TYR:H	1.72	0.91
1:G:769:ALA:O	1:G:773:GLY:CA	2.18	0.91
1:G:783:LEU:O	1:G:787:ILE:HB	1.70	0.91
1:J:278:GLN:HG2	1:J:317:GLU:HB2	1.52	0.91
1:J:756:THR:CA	1:J:776:GLU:OE1	2.19	0.91
1:J:819:ASN:ND2	2:K:92:ASP:CB	2.32	0.91
1:P:538:GLU:N	4:1:351:THR:H	1.67	0.91
1:P:638:GLY:HA3	4:1:341:ILE:O	1.70	0.91
1:P:649:VAL:CB	1:P:649:VAL:CG2	2.49	0.91
4:4:288:ASP:OD1	4:6:203:THR:HG23	1.70	0.91
1:A:218:LEU:HA	1:A:221:GLN:CG	2.01	0.91
1:A:648:THR:HG21	1:A:651:ALA:HB2	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:507:GLY:CA	1:D:762:HIS:CG	2.53	0.91
1:D:549:SER:C	4:W:46:GLY:HA3	1.90	0.91
1:D:550:PHE:HA	4:W:46:GLY:CA	2.00	0.91
1:D:727:LEU:N	1:D:782:MLY:HE2	1.85	0.91
1:D:735:GLY:C	1:D:743:ALA:HA	1.91	0.91
1:G:538:GLU:N	4:V:351:THR:H	1.68	0.91
1:G:754:ASP:N	1:G:776:GLU:OE1	2.03	0.91
1:G:755:HIS:HB2	1:G:779:ARG:HH22	1.28	0.91
1:J:798:LEU:HD11	3:L:126:LEU:HD11	0.93	0.91
2:N:150:TYR:O	2:N:151:LYS:HB2	1.67	0.91
1:P:410:ASN:OD1	4:1:334:GLU:C	2.10	0.91
1:P:642:LYS:CG	4:1:23:GLY:H	1.77	0.91
1:A:502:GLU:HG3	1:A:761:GLY:CA	2.00	0.90
1:D:735:GLY:O	1:D:743:ALA:CA	2.19	0.90
1:D:791:GLN:OE1	3:F:116:GLU:CG	2.18	0.90
2:E:150:TYR:O	2:E:151:LYS:HB2	1.67	0.90
1:G:736:GLN:HA	1:G:743:ALA:HB2	1.51	0.90
1:G:757:GLN:CG	1:G:776:GLU:CG	2.08	0.90
1:J:561:LYS:HE3	4:Y:48:GLY:HA3	1.50	0.90
1:M:735:GLY:O	1:M:743:ALA:CA	2.19	0.90
1:P:789:ALA:CB	3:R:81:GLN:HG2	1.99	0.90
1:D:747:LEU:CD2	1:D:782:MLY:HH11	2.01	0.90
3:F:62:ALA:O	3:F:63:ILE:CG1	2.19	0.90
1:G:649:VAL:CG1	1:G:649:VAL:C	2.38	0.90
3:I:62:ALA:O	3:I:63:ILE:HG12	1.71	0.90
1:J:649:VAL:CB	1:J:649:VAL:CG2	2.49	0.90
1:A:502:GLU:CG	1:A:761:GLY:N	2.33	0.90
1:A:754:ASP:OD2	1:A:778:MET:HE1	1.70	0.90
3:F:62:ALA:O	3:F:63:ILE:HG12	1.71	0.90
1:G:410:ASN:OD1	4:V:334:GLU:C	2.09	0.90
1:G:735:GLY:C	1:G:743:ALA:HA	1.90	0.90
3:L:62:ALA:O	3:L:63:ILE:CG1	2.19	0.90
1:M:797:PHE:HE1	3:O:146:ILE:C	1.67	0.90
1:A:502:GLU:CB	1:A:761:GLY:HA3	2.00	0.90
1:D:278:GLN:HG2	1:D:317:GLU:HB2	1.52	0.90
1:D:538:GLU:N	4:9:349:LEU:HD12	1.86	0.90
1:D:732:ILE:HG21	1:D:782:MLY:HH21	0.97	0.90
1:G:544:LYS:HD2	4:V:147:ARG:HB3	1.53	0.90
1:M:817:GLN:CG	2:N:127:ARG:CD	2.48	0.90
1:A:795:ARG:CG	3:C:35:ARG:HH12	1.84	0.90
3:C:62:ALA:O	3:C:63:ILE:CG1	2.19	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:410:ASN:OD1	4:9:334:GLU:C	2.10	0.90
1:J:410:ASN:OD1	4:W:334:GLU:C	2.10	0.90
1:J:649:VAL:CG1	1:J:649:VAL:C	2.38	0.90
1:M:218:LEU:HA	1:M:221:GLN:CG	2.01	0.90
1:M:544:LYS:HD2	4:Z:147:ARG:HB3	1.52	0.90
1:M:713:SER:CB	1:M:772:LEU:HD23	2.00	0.90
3:R:62:ALA:O	3:R:63:ILE:CG1	2.19	0.90
4:1:167:GLU:OE1	4:3:41:GLN:O	1.89	0.90
1:A:544:LYS:HD2	4:8:147:ARG:HB3	1.53	0.90
1:A:831:TRP:CZ2	2:B:50:THR:HB	2.06	0.90
1:G:757:GLN:OE1	1:G:772:LEU:O	1.90	0.90
1:G:769:ALA:HB1	1:G:770:GLY:HA2	1.54	0.90
1:J:630:ALA:O	4:W:25:ASP:CG	2.09	0.90
1:M:84:MLY:CH1	1:M:776:GLU:OE2	2.19	0.90
1:M:410:ASN:OD1	4:Z:334:GLU:C	2.10	0.90
1:M:649:VAL:CG2	1:M:649:VAL:HG13	2.02	0.90
2:Q:121:LEU:CA	2:Q:128:PHE:CB	2.46	0.90
1:A:629:GLU:HG2	1:A:643:GLY:O	1.72	0.90
1:A:649:VAL:CG2	1:A:649:VAL:HG13	2.02	0.90
1:A:795:ARG:CB	3:C:35:ARG:CZ	2.36	0.90
1:D:553:MLY:HE2	4:W:45:VAL:HA	1.53	0.90
1:J:649:VAL:CG2	1:J:649:VAL:HG13	2.02	0.90
1:J:735:GLY:C	1:J:743:ALA:HA	1.90	0.90
1:J:792:ALA:N	3:L:42:THR:CG2	2.27	0.90
4:2:287:ILE:CD1	4:4:203:THR:N	2.34	0.90
1:A:735:GLY:O	1:A:743:ALA:CA	2.19	0.90
1:D:538:GLU:N	4:9:351:THR:H	1.68	0.90
2:H:121:LEU:CB	2:H:128:PHE:HB3	1.69	0.90
1:J:756:THR:HG22	1:J:776:GLU:HB3	1.53	0.90
1:J:834:LEU:HD12	2:K:51:PHE:HE1	1.36	0.90
3:L:62:ALA:O	3:L:63:ILE:HG12	1.71	0.90
1:M:530:MET:N	4:Z:354:GLN:HB3	1.87	0.90
1:M:725:ARG:HD2	3:O:85:GLU:OE2	1.70	0.90
1:M:783:LEU:HB3	1:M:786:ILE:HD11	1.52	0.90
1:P:629:GLU:HG2	1:P:643:GLY:O	1.72	0.90
1:P:724:TYR:HE1	1:P:775:LEU:HG	1.28	0.90
1:P:735:GLY:C	1:P:743:ALA:HA	1.90	0.90
3:R:62:ALA:O	3:R:63:ILE:HG12	1.71	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:D:550:PHE:CA	4:W:46:GLY:HA3	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:649:VAL:CG2	1:P:649:VAL:HG13	2.02	0.90
4:1:167:GLU:OE2	4:3:42:GLY:HA3	1.72	0.90
1:A:795:ARG:HD2	3:C:35:ARG:NH1	1.86	0.90
1:A:814:PHE:N	2:B:127:ARG:HH11	1.69	0.90
2:B:137:TRP:HA	2:B:145:ALA:HB2	1.54	0.90
1:D:506:GLU:CG	1:D:764:MLY:CE	2.50	0.90
2:E:144:VAL:HG13	2:E:153:ILE:HD11	1.21	0.90
1:J:215:GLN:H	1:J:340:ILE:CG1	1.72	0.90
1:J:538:GLU:O	4:W:349:LEU:CG	2.20	0.90
1:J:829:TRP:CH2	2:K:87:LYS:NZ	2.39	0.90
1:M:797:PHE:CD1	3:O:146:ILE:HG23	2.06	0.90
1:P:85:TYR:OH	1:P:776:GLU:HG3	1.72	0.90
1:A:505:MLY:HG3	1:A:741:LYS:HZ1	1.34	0.89
1:D:508:ILE:HA	1:D:761:GLY:HA3	1.52	0.89
1:M:538:GLU:O	4:Z:349:LEU:CG	2.20	0.89
1:M:635:GLY:CA	4:Z:341:ILE:HD13	2.02	0.89
3:O:62:ALA:O	3:O:63:ILE:HG12	1.71	0.89
1:P:831:TRP:CH2	2:Q:47:LEU:HD22	2.06	0.89
1:A:553:MLY:HE2	4:V:45:VAL:HA	1.53	0.89
1:A:818:TYR:CB	2:B:90:GLY:N	2.34	0.89
1:D:553:MLY:CG	4:W:44:MET:O	2.20	0.89
1:D:630:ALA:O	4:9:25:ASP:CG	2.09	0.89
1:D:649:VAL:CG2	1:D:649:VAL:HG13	2.02	0.89
1:D:795:ARG:HB2	3:F:35:ARG:NH1	1.85	0.89
1:G:538:GLU:O	4:V:349:LEU:CG	2.20	0.89
1:G:629:GLU:HG2	1:G:643:GLY:O	1.72	0.89
1:J:534:SER:HA	4:W:350:SER:O	1.71	0.89
3:L:24:LYS:HB3	3:L:63:ILE:O	1.72	0.89
2:N:121:LEU:CB	2:N:128:PHE:HB3	1.69	0.89
1:A:721:LYS:CB	1:A:736:GLN:OE1	2.20	0.89
1:A:834:LEU:CD2	2:B:54:MET:HE3	2.02	0.89
1:D:538:GLU:OE2	4:9:355:MET:HE3	1.72	0.89
1:D:726:VAL:O	1:D:785:GLU:HG2	1.71	0.89
1:G:649:VAL:CG2	1:G:649:VAL:HG13	2.02	0.89
1:G:791:GLN:HE22	3:I:115:GLY:HA2	1.34	0.89
1:J:629:GLU:HG2	1:J:643:GLY:O	1.72	0.89
1:M:736:GLN:HA	1:M:743:ALA:HB2	1.51	0.89
1:M:791:GLN:HE22	3:O:115:GLY:HA3	1.37	0.89
1:P:534:SER:HA	4:1:350:SER:O	1.71	0.89
1:P:735:GLY:O	1:P:743:ALA:CA	2.19	0.89
1:A:538:GLU:O	4:8:349:LEU:CG	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:649:VAL:CB	1:G:649:VAL:CG2	2.49	0.89
1:J:635:GLY:CA	4:W:341:ILE:HD13	2.02	0.89
1:J:836:PHE:HE1	2:K:159:HIS:HA	1.38	0.89
1:P:797:PHE:HD1	3:R:146:ILE:O	1.56	0.89
1:A:649:VAL:CB	1:A:649:VAL:CG2	2.50	0.89
1:D:819:ASN:CB	2:E:90:GLY:O	2.20	0.89
1:G:534:SER:HA	4:V:350:SER:O	1.72	0.89
1:G:721:LYS:CB	1:G:736:GLN:OE1	2.20	0.89
1:P:826:VAL:HG21	2:Q:88:LEU:HD21	1.52	0.89
1:J:530:MET:N	4:W:354:GLN:HB3	1.87	0.89
1:M:630:ALA:O	4:Z:25:ASP:CG	2.09	0.89
1:M:649:VAL:CB	1:M:649:VAL:CG2	2.49	0.89
1:M:791:GLN:NE2	3:O:115:GLY:HA3	1.87	0.89
1:P:721:LYS:CB	1:P:736:GLN:OE1	2.20	0.89
4:1:110:LEU:CA	4:2:195:GLU:HG3	2.03	0.89
4:2:322:PRO:HB3	4:4:244:ASP:CG	1.93	0.89
1:A:410:ASN:OD1	4:8:334:GLU:C	2.10	0.89
1:A:550:PHE:CA	4:V:46:GLY:HA3	2.02	0.89
1:D:530:MET:N	4:9:354:GLN:HB3	1.87	0.89
1:D:629:GLU:HG2	1:D:643:GLY:O	1.72	0.89
1:D:834:LEU:CD2	2:E:54:MET:CE	2.50	0.89
1:G:735:GLY:O	1:G:743:ALA:CA	2.19	0.89
1:J:28:GLN:HA	1:J:723:ARG:HH21	1.11	0.89
1:M:534:SER:HA	4:Z:350:SER:O	1.71	0.89
3:O:62:ALA:O	3:O:63:ILE:CG1	2.19	0.89
1:P:635:GLY:CA	4:1:341:ILE:HD13	2.02	0.89
4:W:325:MET:HE1	4:Y:244:ASP:CG	1.93	0.89
1:A:630:ALA:O	4:8:25:ASP:CG	2.10	0.89
1:A:641:LYS:HD2	4:8:348:SER:CB	2.02	0.89
1:D:713:SER:HB2	1:D:775:LEU:CD2	2.02	0.89
2:H:137:TRP:HA	2:H:145:ALA:HB2	1.54	0.89
1:J:642:LYS:HG2	4:W:22:ALA:CA	2.03	0.89
1:J:721:LYS:CB	1:J:736:GLN:OE1	2.20	0.89
1:J:735:GLY:O	1:J:743:ALA:CA	2.19	0.89
2:K:137:TRP:HA	2:K:145:ALA:HB2	1.53	0.89
1:M:641:LYS:HD2	4:Z:348:SER:CB	2.02	0.89
1:M:737:PHE:CD2	3:O:84:PHE:HZ	1.82	0.89
1:A:215:GLN:H	1:A:340:ILE:CG1	1.73	0.89
1:A:818:TYR:HB3	2:B:90:GLY:N	1.88	0.89
1:D:642:LYS:HG2	4:9:22:ALA:CA	2.03	0.89
1:M:629:GLU:HG2	1:M:643:GLY:O	1.72	0.89

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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	0.89
1:P:709:LYS:C	1:P:710:GLY:HA2	1.93	0.89
1:A:635:GLY:CA	4:8:341:ILE:HD13	2.02	0.89
1:A:813:ILE:HG22	2:B:127:ARG:CD	2.03	0.89
1:D:635:GLY:CA	4:9:341:ILE:HD13	2.03	0.89
1:G:829:TRP:CZ2	2:H:87:LYS:HE2	2.08	0.89
1:J:834:LEU:HD13	2:K:51:PHE:HE1	1.25	0.89
1:M:817:GLN:CG	2:N:127:ARG:HB2	2.03	0.89
1:A:534:SER:HA	4:8:350:SER:O	1.71	0.88
1:A:797:PHE:CD1	3:C:146:ILE:CG2	2.55	0.88
1:G:553:MLY:NZ	4:X:45:VAL:HG11	1.87	0.88
1:A:641:LYS:CD	1:A:647:GLN:OE1	2.17	0.88
2:E:137:TRP:HA	2:E:145:ALA:HB2	1.53	0.88
1:G:538:GLU:N	4:V:349:LEU:HD12	1.87	0.88
1:G:635:GLY:CA	4:V:341:ILE:HD13	2.03	0.88
1:J:756:THR:HG22	1:J:776:GLU:OE1	1.68	0.88
2:N:137:TRP:HA	2:N:145:ALA:HB2	1.53	0.88
1:P:538:GLU:O	4:1:349:LEU:CG	2.20	0.88
1:P:635:GLY:HA2	4:1:334:GLU:CG	2.03	0.88
1:P:642:LYS:CG	4:1:21:PHE:O	2.22	0.88
1:P:642:LYS:HG2	4:1:22:ALA:CA	2.03	0.88
1:A:215:GLN:H	1:A:340:ILE:HG12	1.05	0.88
1:A:541:MET:CB	4:8:143:TYR:OH	2.20	0.88
1:A:638:GLY:HA3	4:8:341:ILE:O	1.70	0.88
1:A:798:LEU:HD11	3:C:126:LEU:CG	2.03	0.88
1:D:538:GLU:O	4:9:349:LEU:CG	2.20	0.88
1:D:721:LYS:CB	1:D:736:GLN:OE1	2.20	0.88
1:G:821:ARG:NH2	2:H:127:ARG:CG	2.35	0.88
3:I:24:LYS:HB3	3:I:63:ILE:O	1.72	0.88
1:J:795:ARG:CZ	3:L:116:GLU:OE1	2.20	0.88
1:P:722:GLN:HB3	3:R:85:GLU:HB2	1.54	0.88
1:P:818:TYR:HE1	2:Q:127:ARG:NH2	1.58	0.88
1:P:838:ILE:CD1	2:Q:54:MET:HE3	1.99	0.88
4:2:42:GLY:HA3	4:Z:167:GLU:CD	1.93	0.88
1:A:636:LYS:H	4:8:334:GLU:CD	1.77	0.88
2:B:137:TRP:HA	2:B:145:ALA:CB	2.04	0.88
3:C:62:ALA:O	3:C:63:ILE:HG12	1.71	0.88
1:D:641:LYS:HG3	1:D:647:GLN:NE2	1.58	0.88
1:D:725:ARG:C	1:D:782:MLY:HH22	1.93	0.88
1:D:818:TYR:HB3	2:E:90:GLY:CA	2.03	0.88
2:E:137:TRP:HA	2:E:145:ALA:CB	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:93:MET:SD	1:G:715:VAL:CA	2.60	0.88
1:M:215:GLN:H	1:M:340:ILE:HG12	1.05	0.88
1:P:718:ALA:C	3:R:85:GLU:CG	2.41	0.88
4:2:287:ILE:HG21	4:4:202:THR:CB	2.02	0.88
4:X:291:LYS:HG3	4:Z:245:GLY:C	1.94	0.88
1:D:831:TRP:CZ2	2:E:47:LEU:HD22	2.06	0.88
1:G:641:LYS:CD	1:G:647:GLN:OE1	2.17	0.88
1:G:641:LYS:HD2	4:V:348:SER:CB	2.03	0.88
1:J:28:GLN:NE2	1:J:723:ARG:NH1	2.22	0.88
1:J:635:GLY:HA2	4:W:334:GLU:CG	2.03	0.88
1:P:718:ALA:O	3:R:85:GLU:CD	2.12	0.88
1:A:599:ASN:OD1	1:A:649:VAL:HB	1.72	0.88
2:B:121:LEU:CB	2:B:128:PHE:HB3	1.69	0.88
1:D:541:MET:CB	4:9:143:TYR:OH	2.20	0.88
1:G:755:HIS:H	1:G:779:ARG:NE	1.71	0.88
1:J:641:LYS:HD2	4:W:348:SER:CB	2.02	0.88
1:M:797:PHE:HE1	3:O:146:ILE:CA	1.77	0.88
1:P:530:MET:N	4:1:354:GLN:HB3	1.87	0.88
1:P:641:LYS:HD2	4:1:348:SER:CB	2.02	0.88
2:Q:137:TRP:HA	2:Q:145:ALA:CB	2.04	0.88
1:A:557:GLU:H	4:V:48:GLY:HA3	1.28	0.88
1:G:755:HIS:H	1:G:779:ARG:NH1	1.71	0.88
1:M:215:GLN:H	1:M:340:ILE:CG1	1.73	0.88
1:M:638:GLY:HA3	4:Z:341:ILE:O	1.70	0.88
3:O:24:LYS:HB3	3:O:63:ILE:O	1.72	0.88
1:A:149:GLN:HB2	1:A:718:ALA:HB1	1.56	0.88
1:D:641:LYS:HD2	4:9:348:SER:CB	2.02	0.88
1:D:727:LEU:HG	1:D:782:MLY:HE2	1.52	0.88
2:E:163:ALA:O	2:K:22:THR:N	2.07	0.88
1:G:754:ASP:HB3	1:G:776:GLU:CD	1.79	0.88
2:H:137:TRP:HA	2:H:145:ALA:CB	2.04	0.88
1:J:642:LYS:CG	4:W:21:PHE:O	2.22	0.88
1:M:642:LYS:HG2	4:Z:22:ALA:CA	2.03	0.88
1:M:817:GLN:HG3	2:N:128:PHE:CE1	2.09	0.88
1:P:541:MET:CB	4:1:143:TYR:OH	2.20	0.88
1:P:641:LYS:HG3	1:P:647:GLN:NE2	1.59	0.88
1:P:641:LYS:CD	1:P:647:GLN:OE1	2.17	0.88
1:P:786:ILE:C	1:P:787:ILE:CA	2.41	0.88
4:2:64:ILE:CG2	4:Z:166:TYR:OH	2.21	0.88
1:A:797:PHE:CE1	3:C:146:ILE:C	2.47	0.88
1:G:505:MLY:HE3	1:G:762:HIS:NE2	1.80	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:638:GLY:HA3	4:V:341:ILE:O	1.70	0.88
1:G:817:GLN:CD	2:H:127:ARG:CD	2.41	0.88
1:G:838:ILE:HD11	2:H:54:MET:HE1	1.53	0.88
2:H:149:ASP:CG	2:H:150:TYR:H	1.73	0.88
1:J:149:GLN:HG2	1:J:716:LEU:HD11	1.54	0.88
1:J:567:LYS:HZ3	4:Y:92:ASN:HD22	1.21	0.88
1:J:757:GLN:HA	1:J:776:GLU:HG3	1.56	0.88
1:M:642:LYS:CG	4:Z:21:PHE:O	2.22	0.88
1:M:735:GLY:C	1:M:743:ALA:HB2	1.82	0.88
1:P:817:GLN:HB3	2:Q:127:ARG:HD2	1.53	0.88
1:D:635:GLY:HA2	4:9:334:GLU:CG	2.03	0.88
1:G:506:GLU:OE2	1:G:760:PHE:O	1.90	0.88
1:J:541:MET:CB	4:W:143:TYR:OH	2.20	0.88
1:M:831:TRP:HE1	2:N:67:MET:HB3	1.39	0.88
1:P:84:MLY:NZ	1:P:776:GLU:OE1	2.06	0.88
1:P:538:GLU:N	4:1:349:LEU:HD12	1.86	0.88
1:D:599:ASN:OD1	1:D:649:VAL:HB	1.73	0.87
1:G:215:GLN:H	1:G:340:ILE:HG12	1.05	0.87
1:G:646:PHE:CE2	1:G:652:LEU:CD1	2.57	0.87
1:J:826:VAL:HG21	2:K:88:LEU:CD2	2.02	0.87
1:M:541:MET:CB	4:Z:143:TYR:OH	2.20	0.87
1:P:84:MLY:HB3	1:P:780:ASP:CG	1.93	0.87
1:P:709:LYS:C	1:P:710:GLY:CA	2.43	0.87
1:A:72:VAL:CG1	1:A:76:GLN:HB3	2.05	0.87
1:A:149:GLN:CA	1:A:719:ASP:OD1	2.22	0.87
1:A:831:TRP:CD1	2:B:51:PHE:HZ	1.76	0.87
1:D:641:LYS:CD	1:D:647:GLN:OE1	2.17	0.87
3:F:24:LYS:HB3	3:F:63:ILE:O	1.72	0.87
1:G:530:MET:N	4:V:354:GLN:HB3	1.88	0.87
1:G:757:GLN:CG	1:G:776:GLU:CD	2.42	0.87
1:G:797:PHE:CE1	3:I:146:ILE:CG2	2.57	0.87
1:J:646:PHE:CE2	1:J:652:LEU:CD1	2.58	0.87
1:J:821:ARG:HH22	2:K:127:ARG:HG2	1.34	0.87
3:L:139:TYR:HA	3:L:142:PHE:HB3	1.56	0.87
2:N:149:ASP:CG	2:N:150:TYR:H	1.73	0.87
3:R:24:LYS:HB3	3:R:63:ILE:O	1.72	0.87
1:A:534:SER:O	4:8:351:THR:HG23	1.13	0.87
1:A:642:LYS:CG	4:8:21:PHE:O	2.22	0.87
1:P:636:LYS:H	4:1:334:GLU:CD	1.78	0.87
4:2:324:THR:HG23	4:4:244:ASP:HA	1.55	0.87
1:A:795:ARG:HB2	3:C:35:ARG:NH1	1.89	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:755:HIS:HA	1:G:758:TYR:CE1	2.10	0.87
1:G:818:TYR:CZ	2:H:127:ARG:CZ	2.56	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	2.17	0.87
1:J:756:THR:CG2	1:J:776:GLU:HB3	2.05	0.87
4:4:287:ILE:CG2	4:6:204:ALA:H	1.87	0.87
1:A:813:ILE:CD1	2:B:128:PHE:HE1	1.87	0.87
2:B:121:LEU:CA	2:B:128:PHE:CB	2.46	0.87
1:D:769:ALA:HA	1:D:771:LEU:C	1.93	0.87
1:G:642:LYS:HG2	4:V:22:ALA:CA	2.03	0.87
1:G:830:PRO:HB3	2:H:67:MET:CE	2.04	0.87
1:M:803:TYR:O	1:M:807:VAL:CB	2.23	0.87
1:A:530:MET:HG2	4:8:354:GLN:CG	2.05	0.87
1:D:72:VAL:CG1	1:D:76:GLN:HB3	2.05	0.87
1:D:215:GLN:H	1:D:340:ILE:HG12	1.06	0.87
1:D:649:VAL:CG1	1:D:649:VAL:CA	2.53	0.87
1:D:755:HIS:HA	1:D:758:TYR:CE1	2.10	0.87
1:D:797:PHE:CE1	3:F:146:ILE:CB	2.58	0.87
1:G:84:MLY:CA	1:G:723:ARG:NH2	2.32	0.87
1:G:541:MET:CB	4:V:143:TYR:OH	2.21	0.87
1:G:732:ILE:HG23	1:G:747:LEU:HB2	1.57	0.87
1:G:836:PHE:CE1	2:H:159:HIS:HA	2.09	0.87
1:J:505:MLY:HG3	1:J:762:HIS:CE1	2.10	0.87
2:K:137:TRP:HA	2:K:145:ALA:CB	2.04	0.87
1:G:72:VAL:CG1	1:G:76:GLN:HB3	2.05	0.87
1:G:97:LEU:CD2	1:G:712:PRO:HB3	1.98	0.87
3:I:139:TYR:HA	3:I:142:PHE:HB3	1.56	0.87
1:J:72:VAL:CG1	1:J:76:GLN:HB3	2.05	0.87
1:J:791:GLN:CD	3:L:116:GLU:HG3	1.95	0.87
1:J:836:PHE:CZ	2:K:160:GLY:N	2.42	0.87
1:P:797:PHE:CE2	3:R:126:LEU:HD22	2.08	0.87
1:P:818:TYR:CD1	2:Q:127:ARG:NH1	2.42	0.87
4:2:322:PRO:CB	4:4:244:ASP:HB3	2.04	0.87
1:D:642:LYS:CG	4:9:21:PHE:O	2.22	0.87
1:D:747:LEU:CD1	1:D:782:MLY:CH2	2.45	0.87
1:G:642:LYS:CG	4:V:21:PHE:O	2.22	0.87
1:G:649:VAL:CG1	1:G:649:VAL:CA	2.53	0.87
3:O:139:TYR:HA	3:O:142:PHE:HB3	1.56	0.87
1:P:786:ILE:CA	1:P:787:ILE:N	2.37	0.87
2:Q:137:TRP:HA	2:Q:145:ALA:HB2	1.53	0.87
3:R:139:TYR:HA	3:R:142:PHE:HB3	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:201:VAL:H	4:Y:287:ILE:CG1	1.44	0.87
4:2:287:ILE:HB	4:4:203:THR:CG2	2.04	0.87
1:A:649:VAL:CG1	1:A:649:VAL:CA	2.53	0.87
2:B:149:ASP:CG	2:B:150:TYR:H	1.73	0.87
1:D:732:ILE:HG23	1:D:747:LEU:HB2	1.57	0.87
1:G:755:HIS:N	1:G:779:ARG:NH1	2.23	0.87
1:J:95:THR:HA	1:J:713:SER:OG	1.74	0.87
1:J:755:HIS:HA	1:J:758:TYR:CE1	2.10	0.87
1:J:756:THR:CG2	1:J:776:GLU:HA	2.04	0.87
1:M:641:LYS:CD	1:M:647:GLN:OE1	2.17	0.87
1:M:646:PHE:CE2	1:M:652:LEU:CD1	2.58	0.87
1:M:803:TYR:O	1:M:807:VAL:N	2.07	0.87
1:P:646:PHE:CD2	1:P:652:LEU:HD11	2.09	0.87
1:P:797:PHE:CG	3:R:146:ILE:HG23	2.10	0.87
1:A:642:LYS:HG2	4:8:22:ALA:CA	2.04	0.86
3:C:24:LYS:HB3	3:C:63:ILE:O	1.72	0.86
1:J:215:GLN:H	1:J:340:ILE:HG12	1.05	0.86
1:J:649:VAL:CG1	1:J:649:VAL:CA	2.53	0.86
1:M:636:LYS:H	4:Z:334:GLU:CD	1.78	0.86
1:M:818:TYR:HE1	2:N:127:ARG:NH2	1.56	0.86
4:9:322:PRO:HB2	4:W:244:ASP:CG	1.94	0.86
1:A:635:GLY:HA2	4:8:334:GLU:CG	2.03	0.86
1:G:310:TYR:CZ	1:G:320:ILE:HD11	2.11	0.86
1:G:530:MET:HG2	4:V:354:GLN:CG	2.05	0.86
1:G:769:ALA:HB3	1:G:770:GLY:CA	2.05	0.86
1:G:820:VAL:HG11	2:H:136:MET:CE	2.05	0.86
1:G:820:VAL:HG11	2:H:136:MET:HE3	1.56	0.86
1:M:72:VAL:CG1	1:M:76:GLN:HB3	2.05	0.86
1:M:635:GLY:HA2	4:Z:334:GLU:CG	2.03	0.86
1:M:817:GLN:HB3	2:N:127:ARG:HH11	1.39	0.86
1:P:29:ASN:HB3	1:P:784:ALA:HB2	1.56	0.86
1:P:649:VAL:CG1	1:P:649:VAL:CA	2.53	0.86
1:P:783:LEU:HA	1:P:786:ILE:HG12	1.58	0.86
4:8:322:PRO:HB2	4:V:244:ASP:CG	1.94	0.86
4:W:286:ASP:CG	4:Y:203:THR:HG22	1.96	0.86
1:A:530:MET:HE1	4:8:355:MET:SD	2.16	0.86
1:D:636:LYS:H	4:9:334:GLU:CD	1.77	0.86
1:D:727:LEU:H	1:D:782:MLY:CE	1.88	0.86
1:G:646:PHE:CD2	1:G:652:LEU:HD11	2.09	0.86
1:G:795:ARG:HB2	3:I:35:ARG:NH1	1.90	0.86
1:G:817:GLN:OE1	2:H:127:ARG:CD	2.20	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:557:GLU:HA	4:Y:48:GLY:N	1.90	0.86
1:M:723:ARG:NH1	1:M:779:ARG:NE	2.23	0.86
1:P:538:GLU:OE2	4:1:355:MET:HE3	1.72	0.86
1:P:755:HIS:HA	1:P:758:TYR:CE1	2.10	0.86
1:P:831:TRP:HE1	2:Q:67:MET:HB3	1.39	0.86
1:J:831:TRP:CZ2	2:K:47:LEU:CD2	2.58	0.86
1:M:649:VAL:CG1	1:M:649:VAL:CA	2.53	0.86
1:M:791:GLN:NE2	3:O:116:GLU:H	1.73	0.86
1:A:732:ILE:HG23	1:A:747:LEU:HB2	1.57	0.86
1:D:530:MET:HG2	4:9:354:GLN:CG	2.05	0.86
2:K:117:LEU:CG	2:K:147:ASN:CG	2.44	0.86
2:N:137:TRP:HA	2:N:145:ALA:CB	2.04	0.86
1:P:72:VAL:CG1	1:P:76:GLN:HB3	2.05	0.86
1:P:206:LYS:HD3	1:P:217:THR:CB	2.06	0.86
1:P:783:LEU:C	1:P:786:ILE:HG13	1.94	0.86
4:7:322:PRO:HB2	4:9:244:ASP:CG	1.94	0.86
1:A:310:TYR:CZ	1:A:320:ILE:HD11	2.11	0.86
1:G:796:GLY:HA2	3:I:35:ARG:NE	1.90	0.86
1:M:530:MET:HG2	4:Z:354:GLN:CG	2.06	0.86
1:M:799:MET:CE	3:O:32:ASP:HB3	2.06	0.86
1:M:829:TRP:CZ3	2:N:84:PHE:CZ	2.64	0.86
1:M:829:TRP:CZ2	2:N:87:LYS:CE	2.59	0.86
1:G:502:GLU:OE2	1:G:761:GLY:CA	2.23	0.86
1:G:795:ARG:CG	3:I:118:MET:HE1	2.04	0.86
1:G:795:ARG:N	3:I:118:MET:HE1	1.89	0.86
1:J:206:LYS:HD3	1:J:217:THR:CB	2.06	0.86
1:M:646:PHE:CD2	1:M:652:LEU:HD11	2.09	0.86
1:P:797:PHE:HZ	3:R:146:ILE:HD13	0.89	0.86
4:2:324:THR:OG1	4:4:244:ASP:HA	1.76	0.86
1:A:755:HIS:HA	1:A:758:TYR:CE1	2.10	0.86
2:B:117:LEU:CG	2:B:147:ASN:CG	2.44	0.86
1:D:646:PHE:CD2	1:D:652:LEU:HD11	2.09	0.86
1:J:538:GLU:N	4:W:351:THR:N	2.24	0.86
1:M:310:TYR:CZ	1:M:320:ILE:HD11	2.11	0.86
1:M:783:LEU:HA	1:M:786:ILE:HG12	1.55	0.86
1:P:215:GLN:H	1:P:340:ILE:HG12	1.05	0.86
1:P:530:MET:HG2	4:1:354:GLN:CG	2.06	0.86
1:P:534:SER:O	4:1:351:THR:HG23	1.13	0.86
4:1:166:TYR:CZ	4:3:64:ILE:HG21	2.10	0.86
1:A:646:PHE:CD2	1:A:652:LEU:HD11	2.09	0.86
1:D:725:ARG:CA	1:D:782:MLY:CH2	2.52	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:819:ASN:OD1	2:E:91:ALA:CA	2.20	0.86
1:G:503:TYR:CZ	1:G:711:PHE:CE2	2.60	0.86
1:G:636:LYS:H	4:V:334:GLU:CD	1.78	0.86
1:G:826:VAL:HG21	2:H:88:LEU:CD2	2.06	0.86
1:G:830:PRO:CB	2:H:67:MET:CE	2.53	0.86
1:J:530:MET:HG2	4:W:354:GLN:CG	2.06	0.86
1:M:732:ILE:HG23	1:M:747:LEU:HB2	1.57	0.86
1:M:755:HIS:HA	1:M:758:TYR:CE1	2.10	0.86
2:Q:117:LEU:CG	2:Q:147:ASN:CG	2.44	0.86
1:A:28:GLN:NE2	1:A:723:ARG:HH21	1.74	0.86
1:G:206:LYS:HD3	1:G:217:THR:CB	2.06	0.86
2:H:117:LEU:CG	2:H:147:ASN:CG	2.44	0.86
1:J:646:PHE:CD2	1:J:652:LEU:HD11	2.09	0.86
1:M:206:LYS:HD3	1:M:217:THR:CB	2.06	0.86
1:P:538:GLU:N	4:1:351:THR:N	2.24	0.86
1:P:646:PHE:CE2	1:P:652:LEU:CD1	2.58	0.86
1:P:736:GLN:HA	1:P:743:ALA:HB2	1.51	0.86
4:9:287:ILE:CG2	4:W:205:GLU:HG2	2.05	0.86
1:A:93:MET:HG2	1:A:715:VAL:CG2	2.05	0.85
1:A:646:PHE:CE2	1:A:652:LEU:CD1	2.57	0.85
1:D:831:TRP:NE1	2:E:51:PHE:CZ	2.44	0.85
1:G:553:MLY:HG3	4:X:45:VAL:C	1.96	0.85
1:G:797:PHE:CE1	3:I:146:ILE:HD13	2.10	0.85
2:N:121:LEU:CA	2:N:128:PHE:CB	2.46	0.85
4:2:324:THR:CG2	4:4:244:ASP:HA	2.05	0.85
1:A:206:LYS:HD3	1:A:217:THR:CB	2.06	0.85
1:A:813:ILE:HD13	2:B:128:PHE:HE1	1.37	0.85
1:J:599:ASN:OD1	1:J:649:VAL:CA	2.25	0.85
3:F:139:TYR:HA	3:F:142:PHE:HB3	1.56	0.85
1:M:767:PHE:CG	1:M:772:LEU:HD21	2.11	0.85
2:N:117:LEU:CG	2:N:147:ASN:CG	2.44	0.85
1:P:410:ASN:OD1	4:1:334:GLU:CA	2.24	0.85
1:A:505:MLY:HB3	1:A:762:HIS:H	1.41	0.85
1:D:310:TYR:CZ	1:D:320:ILE:HD11	2.11	0.85
1:D:599:ASN:OD1	1:D:649:VAL:CA	2.25	0.85
1:M:630:ALA:C	4:Z:25:ASP:OD2	2.15	0.85
1:P:723:ARG:NH1	1:P:779:ARG:HG3	1.90	0.85
1:P:723:ARG:HD2	1:P:779:ARG:HB2	1.58	0.85
1:P:788:THR:O	3:R:42:THR:HG21	1.76	0.85
4:X:287:ILE:N	4:Z:201:VAL:HG23	1.89	0.85
1:A:538:GLU:OE2	4:8:355:MET:HE3	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:N	4:8:349:LEU:HD12	1.85	0.85
2:E:117:LEU:CG	2:E:147:ASN:CG	2.45	0.85
1:J:817:GLN:HB3	2:K:127:ARG:HD3	1.55	0.85
4:1:287:ILE:HG21	4:3:203:THR:HG22	0.87	0.85
4:7:287:ILE:CG2	4:9:205:GLU:HG2	2.05	0.85
1:A:834:LEU:HD22	2:B:54:MET:CE	2.04	0.85
1:D:202:SER:HA	1:D:207:LYS:HE2	0.85	0.85
1:D:831:TRP:CE3	2:E:34:ILE:HD13	2.12	0.85
1:G:505:MLY:CE	1:G:762:HIS:HE2	1.81	0.85
1:G:553:MLY:HH12	4:X:45:VAL:HG11	1.58	0.85
1:J:202:SER:HA	1:J:207:LYS:HE2	0.85	0.85
1:J:310:TYR:CZ	1:J:320:ILE:HD11	2.10	0.85
1:M:410:ASN:OD1	4:Z:334:GLU:CA	2.24	0.85
1:M:599:ASN:OD1	1:M:649:VAL:HB	1.73	0.85
1:M:805:ALA:CA	1:M:808:GLU:HB2	2.04	0.85
1:P:202:SER:HA	1:P:207:LYS:HE2	0.85	0.85
1:P:310:TYR:CZ	1:P:320:ILE:HD11	2.11	0.85
1:P:767:PHE:CD1	1:P:772:LEU:HD11	2.10	0.85
1:A:506:GLU:HG3	1:A:760:PHE:HD1	1.37	0.85
1:D:646:PHE:CE2	1:D:652:LEU:CD1	2.58	0.85
1:D:725:ARG:CD	1:D:733:PRO:HB3	2.07	0.85
1:G:204:GLU:H	1:G:207:LYS:HE3	1.42	0.85
1:M:640:LYS:CB	1:M:645:SER:OG	2.25	0.85
4:4:287:ILE:CD1	4:6:203:THR:HB	2.06	0.85
1:A:410:ASN:OD1	4:8:334:GLU:CA	2.24	0.85
1:A:599:ASN:OD1	1:A:649:VAL:CA	2.24	0.85
1:G:93:MET:HG2	1:G:715:VAL:HA	1.54	0.85
1:J:795:ARG:C	3:L:35:ARG:CZ	2.45	0.85
1:J:818:TYR:HE1	2:K:127:ARG:NH2	1.69	0.85
1:M:292:MET:HE3	1:M:309:PRO:HA	1.58	0.85
1:P:723:ARG:HH21	1:P:779:ARG:HA	1.38	0.85
4:V:286:ASP:OD1	4:X:203:THR:HG22	1.74	0.85
4:X:291:LYS:HG2	4:Z:245:GLY:N	1.92	0.85
1:A:709:LYS:C	1:A:710:GLY:CA	2.43	0.85
1:D:506:GLU:HG3	1:D:764:MLY:CE	2.06	0.85
1:G:599:ASN:OD1	1:G:649:VAL:CA	2.25	0.85
1:J:204:GLU:H	1:J:207:LYS:HE3	1.42	0.85
1:J:725:ARG:CZ	1:J:733:PRO:HB3	2.06	0.85
1:M:829:TRP:HZ3	2:N:84:PHE:CZ	1.94	0.85
4:8:287:ILE:CG2	4:V:205:GLU:HG2	2.05	0.85
1:A:640:LYS:CB	1:A:645:SER:OG	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:635:GLY:HA2	4:V:334:GLU:CG	2.03	0.85
2:H:121:LEU:CA	2:H:128:PHE:CB	2.46	0.85
1:J:732:ILE:HG23	1:J:747:LEU:HB2	1.57	0.85
1:M:529:PRO:CB	4:Z:353:GLN:OE1	2.25	0.85
1:D:549:SER:O	4:W:46:GLY:HA3	1.77	0.84
1:G:529:PRO:CB	4:V:353:GLN:OE1	2.25	0.84
1:J:640:LYS:C	4:W:23:GLY:O	2.15	0.84
1:M:418:THR:HB	1:M:421:GLU:HG3	1.59	0.84
1:M:543:PRO:HG3	4:Z:143:TYR:O	1.77	0.84
1:P:804:ARG:O	1:P:808:GLU:HG3	1.76	0.84
1:P:820:VAL:HG11	2:Q:136:MET:CE	2.05	0.84
1:A:149:GLN:CB	1:A:719:ASP:OD1	2.24	0.84
1:D:206:LYS:HD3	1:D:217:THR:CB	2.06	0.84
1:D:538:GLU:N	4:9:351:THR:N	2.24	0.84
1:D:640:LYS:C	4:9:23:GLY:O	2.15	0.84
1:M:640:LYS:C	4:Z:23:GLY:O	2.15	0.84
1:M:792:ALA:HB2	3:O:42:THR:HG23	0.86	0.84
1:M:804:ARG:O	1:M:808:GLU:CG	2.24	0.84
1:A:640:LYS:C	4:8:23:GLY:O	2.15	0.84
1:J:28:GLN:CB	1:J:723:ARG:NH1	2.34	0.84
1:J:410:ASN:OD1	4:W:334:GLU:CA	2.24	0.84
1:M:84:MLY:CH1	1:M:776:GLU:OE1	2.24	0.84
1:P:410:ASN:ND2	4:1:336:LYS:HG2	1.92	0.84
1:P:506:GLU:O	1:P:762:HIS:NE2	2.10	0.84
1:P:725:ARG:CZ	1:P:733:PRO:HB3	2.06	0.84
4:3:322:PRO:CB	4:5:244:ASP:CB	2.55	0.84
4:W:291:LYS:HD2	4:Y:243:PRO:CB	2.07	0.84
1:A:502:GLU:CD	1:A:761:GLY:N	2.29	0.84
1:D:507:GLY:HA3	1:D:762:HIS:CB	2.07	0.84
1:D:732:ILE:CG2	1:D:782:MLY:HH21	1.93	0.84
1:D:831:TRP:CE2	2:E:51:PHE:CZ	2.64	0.84
1:G:410:ASN:OD1	4:V:334:GLU:CA	2.24	0.84
1:G:418:THR:HB	1:G:421:GLU:HG3	1.59	0.84
1:J:725:ARG:CD	1:J:733:PRO:HB3	2.07	0.84
1:M:792:ALA:HB2	3:O:42:THR:HG22	1.17	0.84
1:P:204:GLU:H	1:P:207:LYS:HE3	1.42	0.84
1:P:548:THR:HG22	4:3:49:GLN:HG3	1.56	0.84
1:A:204:GLU:H	1:A:207:LYS:HE3	1.42	0.84
1:G:148:ARG:CZ	1:G:764:MLY:HH21	2.07	0.84
1:G:543:PRO:HG3	4:V:143:TYR:O	1.77	0.84
1:J:792:ALA:HB2	3:L:42:THR:CB	2.06	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:708:ARG:C	1:P:710:GLY:N	2.29	0.84
1:A:97:LEU:HD23	1:A:712:PRO:CB	2.03	0.84
2:B:141:PRO:CB	2:B:142:PRO:CD	2.56	0.84
1:D:107:MLY:HB3	1:D:686:MET:HE2	1.59	0.84
1:G:725:ARG:CZ	1:G:733:PRO:HB3	2.05	0.84
1:G:797:PHE:HE1	3:I:146:ILE:CD1	1.89	0.84
1:J:410:ASN:ND2	4:W:336:LYS:HG2	1.92	0.84
1:J:732:ILE:HG23	1:J:747:LEU:CB	1.84	0.84
1:J:795:ARG:HH21	3:L:116:GLU:CD	1.79	0.84
1:J:831:TRP:CZ2	2:K:47:LEU:HD21	2.11	0.84
1:M:410:ASN:ND2	4:Z:336:LYS:HG2	1.92	0.84
1:M:629:GLU:CG	1:M:643:GLY:O	2.26	0.84
1:M:723:ARG:HD2	1:M:779:ARG:NE	1.85	0.84
1:P:548:THR:HG21	4:3:49:GLN:HB2	0.86	0.84
1:A:202:SER:HA	1:A:207:LYS:HE2	0.85	0.84
1:A:418:THR:HB	1:A:421:GLU:HG3	1.59	0.84
1:A:630:ALA:C	4:8:25:ASP:OD2	2.15	0.84
1:D:410:ASN:OD1	4:9:334:GLU:CA	2.24	0.84
1:G:410:ASN:ND2	4:V:336:LYS:HG2	1.92	0.84
1:J:648:THR:CG2	1:J:651:ALA:HB2	2.08	0.84
1:M:795:ARG:HH21	3:O:116:GLU:CD	1.59	0.84
1:P:599:ASN:OD1	1:P:649:VAL:CA	2.25	0.84
1:P:723:ARG:CD	1:P:779:ARG:HB2	2.07	0.84
1:P:725:ARG:CD	1:P:733:PRO:HB3	2.07	0.84
4:V:237:GLU:HA	4:V:251:GLY:HA2	1.60	0.84
1:A:549:SER:O	4:V:46:GLY:HA3	1.77	0.84
1:A:795:ARG:CZ	3:C:43:ASN:OD1	2.22	0.84
1:D:410:ASN:ND2	4:9:336:LYS:HG2	1.92	0.84
1:D:529:PRO:CB	4:9:353:GLN:OE1	2.25	0.84
1:D:542:PHE:CA	4:9:143:TYR:CE1	2.61	0.84
1:D:732:ILE:CG2	1:D:747:LEU:HD13	1.34	0.84
1:G:202:SER:HA	1:G:207:LYS:HE2	0.85	0.84
1:J:797:PHE:CE2	3:L:126:LEU:HD22	2.12	0.84
1:M:204:GLU:H	1:M:207:LYS:HE3	1.42	0.84
1:P:529:PRO:CB	4:1:353:GLN:OE1	2.25	0.84
1:P:542:PHE:CA	4:1:143:TYR:CE1	2.61	0.84
1:P:640:LYS:C	4:1:23:GLY:O	2.15	0.84
4:2:322:PRO:HB2	4:4:244:ASP:HB3	1.56	0.84
4:8:237:GLU:HA	4:8:251:GLY:HA2	1.60	0.84
4:X:288:ASP:O	4:Z:244:ASP:OD1	1.95	0.84
1:D:543:PRO:HG3	4:9:143:TYR:O	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:599:ASN:OD1	1:G:649:VAL:HB	1.72	0.84
1:G:707:CYS:HB3	1:G:712:PRO:HA	1.59	0.84
1:G:791:GLN:HE21	3:I:115:GLY:HA3	1.03	0.84
1:M:202:SER:HA	1:M:207:LYS:HE2	0.85	0.84
1:M:819:ASN:OD1	2:N:92:ASP:HB2	1.78	0.84
4:V:325:MET:HE1	4:X:244:ASP:CG	1.98	0.84
1:A:543:PRO:HG3	4:8:143:TYR:O	1.77	0.84
1:D:204:GLU:H	1:D:207:LYS:HE3	1.41	0.84
1:G:648:THR:CG2	1:G:651:ALA:HB2	2.08	0.84
1:G:817:GLN:CD	2:H:127:ARG:HB2	1.98	0.84
1:J:505:MLY:CG	1:J:762:HIS:CE1	2.60	0.84
1:M:599:ASN:OD1	1:M:649:VAL:CA	2.25	0.84
1:P:786:ILE:C	1:P:787:ILE:C	2.36	0.84
4:8:286:ASP:OD1	4:V:203:THR:CG2	2.26	0.84
4:X:237:GLU:HA	4:X:251:GLY:HA2	1.60	0.84
1:A:725:ARG:CD	1:A:733:PRO:HB3	2.07	0.83
1:A:735:GLY:C	1:A:743:ALA:HB2	1.82	0.83
1:A:800:ARG:C	3:C:149:VAL:HG21	1.97	0.83
1:D:641:LYS:HD2	4:9:348:SER:HB2	1.54	0.83
1:M:725:ARG:CZ	1:M:733:PRO:HB3	2.06	0.83
1:P:732:ILE:HG23	1:P:747:LEU:CB	1.84	0.83
2:E:141:PRO:CB	2:E:142:PRO:CD	2.56	0.83
1:G:538:GLU:N	4:V:351:THR:N	2.24	0.83
1:G:834:LEU:CD1	2:H:51:PHE:CE1	2.61	0.83
1:J:28:GLN:CA	1:J:723:ARG:HH22	1.70	0.83
1:J:561:LYS:CE	4:Y:48:GLY:HA3	2.07	0.83
1:J:732:ILE:CG2	1:J:747:LEU:HD13	1.34	0.83
1:P:107:MLY:HB3	1:P:686:MET:HE2	1.60	0.83
1:P:630:ALA:C	4:1:25:ASP:OD2	2.15	0.83
1:P:707:CYS:O	1:P:710:GLY:N	2.10	0.83
1:A:410:ASN:ND2	4:8:336:LYS:HG2	1.92	0.83
1:A:506:GLU:HG3	1:A:760:PHE:H	1.43	0.83
1:A:529:PRO:CB	4:8:353:GLN:OE1	2.25	0.83
1:G:795:ARG:CG	3:I:118:MET:CE	2.56	0.83
1:J:279:LEU:HB2	1:J:282:GLU:HG3	1.60	0.83
1:M:534:SER:O	4:Z:351:THR:HG23	1.13	0.83
1:M:538:GLU:N	4:Z:351:THR:N	2.24	0.83
4:Z:237:GLU:HA	4:Z:251:GLY:HA2	1.60	0.83
1:A:149:GLN:HA	1:A:719:ASP:OD1	1.78	0.83
1:D:279:LEU:HB2	1:D:282:GLU:HG3	1.60	0.83
1:D:831:TRP:CE2	2:E:47:LEU:HD22	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:629:GLU:CG	1:G:643:GLY:O	2.26	0.83
1:G:640:LYS:C	4:V:23:GLY:O	2.16	0.83
1:G:725:ARG:CD	1:G:733:PRO:HB3	2.07	0.83
1:M:542:PHE:CA	4:Z:143:TYR:CE1	2.61	0.83
1:M:783:LEU:O	1:M:786:ILE:CG1	2.25	0.83
1:P:648:THR:CG2	1:P:651:ALA:HB2	2.08	0.83
1:P:723:ARG:CZ	1:P:779:ARG:CG	2.56	0.83
1:P:732:ILE:HG23	1:P:747:LEU:HB2	1.57	0.83
4:2:237:GLU:HA	4:2:251:GLY:HA2	1.60	0.83
4:4:237:GLU:HA	4:4:251:GLY:HA2	1.60	0.83
1:A:641:LYS:HG2	1:A:647:GLN:HG3	1.60	0.83
3:C:139:TYR:HA	3:C:142:PHE:HB3	1.56	0.83
1:D:648:THR:CG2	1:D:651:ALA:HB2	2.08	0.83
1:D:798:LEU:CD1	3:F:126:LEU:CD1	2.03	0.83
1:G:730:SER:O	1:G:734:GLU:HG3	1.78	0.83
1:J:630:ALA:C	4:W:25:ASP:OD2	2.15	0.83
1:J:641:LYS:HD2	4:W:348:SER:HB2	1.54	0.83
1:J:757:GLN:NE2	1:J:777:GLU:N	2.23	0.83
2:N:141:PRO:CB	2:N:142:PRO:CD	2.56	0.83
2:Q:141:PRO:CB	2:Q:142:PRO:CD	2.56	0.83
4:5:237:GLU:HA	4:5:251:GLY:HA2	1.60	0.83
1:D:630:ALA:C	4:9:25:ASP:OD2	2.15	0.83
1:D:649:VAL:HG12	1:D:649:VAL:C	1.98	0.83
1:M:218:LEU:HB3	1:M:221:GLN:HG3	1.60	0.83
4:7:286:ASP:OD1	4:9:203:THR:CG2	2.26	0.83
4:X:292:ASP:CG	4:Z:244:ASP:HB2	1.99	0.83
1:A:502:GLU:OE1	1:A:764:MLY:N	2.12	0.83
1:A:629:GLU:CG	1:A:643:GLY:O	2.26	0.83
1:A:798:LEU:HD21	3:C:126:LEU:HD11	1.56	0.83
1:D:727:LEU:CB	1:D:782:MLY:CE	2.55	0.83
1:G:530:MET:HE1	4:V:355:MET:SD	2.19	0.83
1:J:813:ILE:HG23	2:K:128:PHE:CE1	2.13	0.83
1:M:797:PHE:CD1	3:O:146:ILE:CG2	2.62	0.83
4:2:287:ILE:HG21	4:4:204:ALA:H	1.42	0.83
1:A:107:MLY:HB3	1:A:686:MET:HE2	1.60	0.83
1:A:792:ALA:CB	3:C:42:THR:CG2	2.37	0.83
1:G:542:PHE:CA	4:V:143:TYR:CE1	2.61	0.83
1:J:529:PRO:CB	4:W:353:GLN:OE1	2.25	0.83
1:J:629:GLU:CG	1:J:643:GLY:O	2.26	0.83
1:M:737:PHE:CE2	3:O:84:PHE:CD2	2.67	0.83
1:A:149:GLN:HB2	1:A:718:ALA:HB3	0.97	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:GLU:N	4:8:351:THR:N	2.24	0.83
1:D:712:PRO:C	1:D:771:LEU:HD22	1.98	0.83
1:G:640:LYS:CB	1:G:645:SER:OG	2.25	0.83
4:1:110:LEU:C	4:2:195:GLU:HG3	1.99	0.83
1:A:95:THR:HG1	1:A:769:ALA:C	1.79	0.83
1:A:279:LEU:HB2	1:A:282:GLU:HG3	1.60	0.83
1:A:542:PHE:CA	4:8:143:TYR:HE1	1.92	0.83
1:A:557:GLU:N	4:V:48:GLY:HA2	1.90	0.83
1:D:708:ARG:HA	1:D:710:GLY:N	1.93	0.83
1:J:649:VAL:HG12	1:J:649:VAL:C	1.98	0.83
2:K:121:LEU:CG	2:K:128:PHE:CA	2.48	0.83
1:P:821:ARG:HH21	2:Q:127:ARG:HG2	1.03	0.83
1:A:730:SER:O	1:A:734:GLU:HG3	1.78	0.82
1:G:107:MLY:HB3	1:G:686:MET:HE2	1.61	0.82
1:J:543:PRO:HG3	4:W:143:TYR:O	1.77	0.82
1:J:640:LYS:CB	1:J:645:SER:OG	2.25	0.82
1:J:819:ASN:CG	2:K:90:GLY:O	2.17	0.82
1:M:783:LEU:HG	1:M:786:ILE:CD1	2.07	0.82
1:P:279:LEU:HB2	1:P:282:GLU:HG3	1.60	0.82
1:P:418:THR:HB	1:P:421:GLU:HG3	1.60	0.82
1:P:599:ASN:CA	1:P:649:VAL:CB	2.53	0.82
1:A:218:LEU:HB3	1:A:221:GLN:HG3	1.61	0.82
1:D:838:ILE:CD1	2:E:54:MET:SD	2.65	0.82
1:G:599:ASN:CA	1:G:649:VAL:CB	2.53	0.82
1:G:829:TRP:CH2	2:H:83:MET:HE3	2.14	0.82
2:H:141:PRO:CB	2:H:142:PRO:CD	2.56	0.82
1:J:542:PHE:CA	4:W:143:TYR:CE1	2.61	0.82
4:2:63:GLY:H	4:Z:288:ASP:CG	1.83	0.82
1:A:549:SER:O	4:V:46:GLY:CA	2.27	0.82
1:A:648:THR:CG2	1:A:651:ALA:HB2	2.08	0.82
1:D:578:HIS:HB3	1:D:592:ILE:HD12	1.62	0.82
1:D:629:GLU:CG	1:D:643:GLY:O	2.26	0.82
1:D:730:SER:O	1:D:734:GLU:HG3	1.78	0.82
1:G:218:LEU:HD22	1:G:222:ILE:CG1	2.09	0.82
1:G:279:LEU:HB2	1:G:282:GLU:HG3	1.60	0.82
1:G:735:GLY:C	1:G:743:ALA:HB2	1.82	0.82
1:G:817:GLN:CG	2:H:127:ARG:HB2	2.09	0.82
1:G:818:TYR:CE1	2:H:127:ARG:NH1	2.47	0.82
1:J:107:MLY:HB3	1:J:686:MET:HE2	1.61	0.82
1:J:149:GLN:HB3	1:J:716:LEU:HD21	1.61	0.82
1:M:838:ILE:CD1	2:N:54:MET:HE3	2.00	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:286:ASP:OD1	4:Y:203:THR:N	2.11	0.82
1:D:643:GLY:N	4:9:24:ASP:HA	1.93	0.82
1:G:578:HIS:HD2	1:G:591:ASN:HA	1.45	0.82
1:G:795:ARG:CZ	3:I:116:GLU:CG	2.56	0.82
1:J:97:LEU:CD2	1:J:712:PRO:HB3	2.09	0.82
1:M:279:LEU:HB2	1:M:282:GLU:HG3	1.60	0.82
1:M:506:GLU:HG2	1:M:766:PHE:HE1	1.44	0.82
1:M:725:ARG:CD	1:M:733:PRO:HB3	2.07	0.82
1:M:734:GLU:O	1:M:738:MET:CG	2.28	0.82
1:P:292:MET:HE3	1:P:309:PRO:HA	1.62	0.82
1:P:640:LYS:CB	1:P:645:SER:OG	2.25	0.82
1:A:725:ARG:CZ	1:A:733:PRO:HB3	2.06	0.82
1:G:641:LYS:HG2	1:G:647:GLN:HG3	1.61	0.82
1:J:817:GLN:OE1	2:K:127:ARG:HD2	1.79	0.82
1:M:127:ASN:HD22	1:M:128:PRO:HD2	1.44	0.82
1:M:542:PHE:CA	4:Z:143:TYR:HE1	1.92	0.82
1:M:797:PHE:CD2	3:O:146:ILE:HG23	2.14	0.82
1:P:629:GLU:CG	1:P:643:GLY:O	2.26	0.82
1:A:542:PHE:CA	4:8:143:TYR:CE1	2.61	0.82
1:G:734:GLU:O	1:G:738:MET:CG	2.28	0.82
1:J:641:LYS:HD2	4:W:348:SER:CA	2.09	0.82
1:M:218:LEU:HD22	1:M:222:ILE:CG1	2.10	0.82
1:M:599:ASN:CA	1:M:649:VAL:CB	2.53	0.82
1:M:641:LYS:HG2	1:M:647:GLN:HG3	1.61	0.82
1:M:648:THR:CG2	1:M:651:ALA:HB2	2.08	0.82
1:P:786:ILE:CB	1:P:787:ILE:H	1.84	0.82
4:3:237:GLU:HA	4:3:251:GLY:HA2	1.60	0.82
4:X:292:ASP:CG	4:Z:244:ASP:HB3	1.99	0.82
1:A:218:LEU:HD22	1:A:222:ILE:CG1	2.10	0.82
1:G:646:PHE:CE2	1:G:652:LEU:HD21	2.14	0.82
1:G:797:PHE:HE2	3:I:126:LEU:CD1	1.91	0.82
1:J:639:GLY:CA	4:W:344:SER:C	2.48	0.82
1:J:641:LYS:HG2	1:J:647:GLN:HG3	1.61	0.82
1:J:643:GLY:N	4:W:24:ASP:HA	1.93	0.82
1:J:730:SER:O	1:J:734:GLU:HG3	1.78	0.82
1:J:792:ALA:CA	3:L:42:THR:CG2	2.35	0.82
1:M:218:LEU:HA	1:M:221:GLN:HG2	1.62	0.82
1:M:721:LYS:CA	1:M:736:GLN:NE2	2.43	0.82
1:A:480:ILE:HG22	1:A:481:ASN:HD22	1.45	0.82
1:A:643:GLY:N	4:8:24:ASP:HA	1.93	0.82
1:D:549:SER:O	4:W:46:GLY:C	2.18	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:218:LEU:HB3	1:G:221:GLN:HG3	1.60	0.82
1:G:505:MLY:HD2	1:G:762:HIS:CD2	2.15	0.82
1:G:553:MLY:CH1	4:X:45:VAL:CG1	2.49	0.82
1:G:817:GLN:CG	2:H:127:ARG:HD2	2.10	0.82
1:J:418:THR:HB	1:J:421:GLU:HG3	1.59	0.82
1:M:544:LYS:NZ	4:2:45:VAL:HG21	1.94	0.82
1:M:788:THR:O	3:O:42:THR:CG2	2.27	0.82
2:N:111:SER:OG	2:N:148:VAL:C	2.15	0.82
1:P:730:SER:O	1:P:734:GLU:HG3	1.78	0.82
1:P:786:ILE:HG22	1:P:787:ILE:CA	2.07	0.82
4:6:237:GLU:HA	4:6:251:GLY:HA2	1.60	0.82
4:9:286:ASP:OD1	4:W:203:THR:CG2	2.26	0.82
1:A:768:MLY:CG	1:A:771:LEU:HD13	2.10	0.82
1:D:553:MLY:HG2	4:W:47:MET:H	1.44	0.82
1:D:641:LYS:HG2	1:D:647:GLN:HG3	1.60	0.82
1:D:799:MET:CE	3:F:32:ASP:CB	2.48	0.82
1:G:542:PHE:CA	4:V:143:TYR:HE1	1.92	0.82
1:M:639:GLY:CA	4:Z:344:SER:C	2.48	0.82
1:P:218:LEU:HD22	1:P:222:ILE:CG1	2.10	0.82
1:P:639:GLY:CA	4:1:344:SER:C	2.48	0.82
1:P:641:LYS:HD2	4:1:348:SER:HB2	1.54	0.82
1:P:734:GLU:O	1:P:738:MET:CG	2.28	0.82
4:W:237:GLU:HA	4:W:251:GLY:HA2	1.60	0.82
1:A:752:ASP:OD2	1:A:782:MLY:HD3	1.79	0.82
1:D:538:GLU:CA	4:9:351:THR:H	1.93	0.82
1:G:84:MLY:HA	1:G:723:ARG:NH2	1.46	0.82
1:G:149:GLN:HG2	1:G:716:LEU:CD1	2.09	0.82
1:G:831:TRP:CZ2	2:H:47:LEU:HD22	2.14	0.82
1:J:599:ASN:OD1	1:J:649:VAL:HB	1.73	0.82
1:J:831:TRP:CH2	2:K:47:LEU:HD22	2.12	0.82
2:K:111:SER:OG	2:K:148:VAL:C	2.15	0.82
1:M:643:GLY:N	4:Z:24:ASP:HA	1.94	0.82
1:P:543:PRO:HG3	4:1:143:TYR:O	1.77	0.82
4:7:290:ARG:NH1	4:9:202:THR:HG21	1.94	0.82
4:8:290:ARG:NH1	4:V:202:THR:HG21	1.94	0.82
4:9:237:GLU:HA	4:9:251:GLY:HA2	1.60	0.82
4:Y:237:GLU:HA	4:Y:251:GLY:HA2	1.60	0.82
1:D:578:HIS:HD2	1:D:591:ASN:HA	1.45	0.81
1:D:732:ILE:HG21	1:D:747:LEU:HD13	0.91	0.81
1:D:831:TRP:CD1	2:E:51:PHE:CZ	2.68	0.81
1:G:795:ARG:N	3:I:118:MET:CE	2.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:783:LEU:O	1:J:787:ILE:HB	1.79	0.81
1:J:826:VAL:HG21	2:K:88:LEU:HD21	1.61	0.81
1:M:480:ILE:HG22	1:M:481:ASN:HD22	1.45	0.81
1:P:643:GLY:N	4:1:24:ASP:HA	1.93	0.81
1:P:649:VAL:HG12	1:P:649:VAL:C	1.98	0.81
1:P:732:ILE:CG2	1:P:747:LEU:HD13	1.34	0.81
1:P:804:ARG:O	1:P:808:GLU:CD	2.17	0.81
4:1:237:GLU:HA	4:1:251:GLY:HA2	1.60	0.81
4:1:245:GLY:H	4:Y:291:LYS:CG	1.80	0.81
1:A:639:GLY:CA	4:8:344:SER:C	2.48	0.81
1:D:798:LEU:HD13	3:F:126:LEU:HD11	1.58	0.81
1:G:503:TYR:OH	1:G:711:PHE:CD2	1.75	0.81
1:G:542:PHE:HA	4:V:143:TYR:HE1	1.34	0.81
1:G:556:ASP:OD2	4:X:47:MET:HE2	1.79	0.81
1:G:641:LYS:HD2	4:V:348:SER:CA	2.09	0.81
1:J:721:LYS:CA	1:J:736:GLN:NE2	2.43	0.81
1:M:730:SER:O	1:M:734:GLU:HG3	1.78	0.81
1:M:732:ILE:CG2	1:M:747:LEU:HD13	1.33	0.81
1:P:480:ILE:HG22	1:P:481:ASN:HD22	1.45	0.81
1:A:85:TYR:HH	1:A:772:LEU:HD23	1.02	0.81
1:A:218:LEU:HA	1:A:221:GLN:HG2	1.62	0.81
1:A:542:PHE:HA	4:8:143:TYR:HE1	1.34	0.81
1:D:418:THR:HB	1:D:421:GLU:HG3	1.60	0.81
1:D:553:MLY:CB	4:W:46:GLY:CA	2.32	0.81
1:D:734:GLU:O	1:D:738:MET:CG	2.28	0.81
1:G:732:ILE:HG23	1:G:747:LEU:CB	1.84	0.81
1:G:813:ILE:HG23	2:H:128:PHE:HZ	1.43	0.81
1:J:215:GLN:N	1:J:340:ILE:CD1	2.44	0.81
1:J:530:MET:CG	4:W:354:GLN:CB	2.30	0.81
2:K:141:PRO:CB	2:K:142:PRO:CD	2.56	0.81
1:M:218:LEU:CA	1:M:221:GLN:HG2	2.10	0.81
1:M:578:HIS:HB3	1:M:592:ILE:HD12	1.62	0.81
1:M:795:ARG:NH2	3:O:116:GLU:CG	2.29	0.81
1:P:722:GLN:NE2	3:R:83:THR:O	2.13	0.81
1:P:817:GLN:HG2	2:Q:127:ARG:HD2	1.62	0.81
4:7:237:GLU:HA	4:7:251:GLY:HA2	1.60	0.81
4:9:290:ARG:NH1	4:W:202:THR:HG21	1.94	0.81
1:A:502:GLU:HG3	1:A:760:PHE:C	2.00	0.81
1:A:732:ILE:CG2	1:A:747:LEU:HD13	1.34	0.81
1:D:530:MET:CG	4:9:354:GLN:CB	2.30	0.81
1:D:557:GLU:H	4:W:48:GLY:HA3	1.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:639:GLY:CA	4:9:344:SER:C	2.48	0.81
1:D:735:GLY:C	1:D:743:ALA:HB1	1.84	0.81
1:D:819:ASN:N	2:E:90:GLY:O	2.13	0.81
1:G:795:ARG:NE	3:I:116:GLU:CD	2.34	0.81
1:J:93:MET:SD	1:J:716:LEU:N	2.54	0.81
1:J:480:ILE:HG22	1:J:481:ASN:HD22	1.45	0.81
1:J:534:SER:O	4:W:351:THR:HG23	1.13	0.81
1:M:820:VAL:CG1	2:N:136:MET:CE	2.57	0.81
1:P:799:MET:CE	3:R:32:ASP:HB3	2.10	0.81
2:Q:144:VAL:CA	2:Q:153:ILE:HD11	2.11	0.81
1:A:218:LEU:CA	1:A:221:GLN:HG2	2.10	0.81
1:A:549:SER:O	4:V:46:GLY:C	2.19	0.81
1:A:641:LYS:HD2	4:8:348:SER:CA	2.10	0.81
1:D:232:PHE:CZ	1:D:287:ILE:HD13	2.16	0.81
1:G:215:GLN:N	1:G:340:ILE:CD1	2.44	0.81
1:G:538:GLU:CA	4:V:351:THR:H	1.92	0.81
1:G:639:GLY:CA	4:V:344:SER:C	2.48	0.81
1:G:769:ALA:HB1	1:G:770:GLY:CA	2.08	0.81
1:J:93:MET:HG2	1:J:715:VAL:HA	1.61	0.81
1:J:218:LEU:HA	1:J:221:GLN:HG2	1.62	0.81
1:P:374:GLN:HG3	1:P:375:ALA:N	1.96	0.81
4:V:325:MET:SD	4:X:244:ASP:HB3	2.19	0.81
1:A:550:PHE:CA	4:V:46:GLY:CA	2.59	0.81
1:A:797:PHE:HE1	3:C:146:ILE:HA	1.03	0.81
1:D:549:SER:O	4:W:46:GLY:CA	2.27	0.81
1:D:571:ALA:O	1:D:572:LYS:CG	2.28	0.81
1:D:725:ARG:CZ	1:D:733:PRO:HB3	2.05	0.81
1:D:831:TRP:CZ2	2:E:47:LEU:CA	2.63	0.81
1:G:797:PHE:CE2	3:I:126:LEU:CD1	2.62	0.81
1:J:796:GLY:HA2	3:L:35:ARG:CD	2.11	0.81
1:P:232:PHE:CZ	1:P:287:ILE:HD13	2.16	0.81
1:P:506:GLU:O	1:P:762:HIS:CD2	2.34	0.81
1:P:599:ASN:OD1	1:P:649:VAL:HB	1.73	0.81
1:P:641:LYS:HD2	4:1:348:SER:CA	2.09	0.81
4:1:166:TYR:OH	4:3:64:ILE:CG2	2.29	0.81
1:D:721:LYS:CA	1:D:736:GLN:NE2	2.43	0.81
4:4:223:PHE:HE1	4:4:255:PHE:HB2	1.46	0.81
4:Z:223:PHE:HE1	4:Z:255:PHE:HB2	1.46	0.81
1:A:578:HIS:HD2	1:A:591:ASN:HA	1.44	0.81
1:A:800:ARG:C	3:C:149:VAL:CG2	2.48	0.81
1:A:836:PHE:CZ	2:B:159:HIS:CA	2.64	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:374:GLN:HG3	1:G:375:ALA:N	1.96	0.81
1:G:732:ILE:HG21	1:G:747:LEU:HD13	0.91	0.81
1:G:818:TYR:HB3	2:H:90:GLY:HA3	1.63	0.81
2:H:144:VAL:CA	2:H:153:ILE:HD11	2.11	0.81
1:J:734:GLU:O	1:J:738:MET:CG	2.28	0.81
1:M:578:HIS:HD2	1:M:591:ASN:HA	1.45	0.81
1:M:737:PHE:CG	3:O:84:PHE:CZ	2.69	0.81
2:N:144:VAL:HG12	2:N:153:ILE:CD1	2.10	0.81
1:P:542:PHE:CA	4:1:143:TYR:HE1	1.92	0.81
4:2:203:THR:HG22	4:Z:287:ILE:HG21	0.81	0.81
1:A:553:MLY:HG2	4:V:47:MET:H	1.44	0.81
1:A:800:ARG:CB	3:C:149:VAL:HG22	2.11	0.81
1:D:218:LEU:HD22	1:D:222:ILE:CG1	2.10	0.81
2:E:144:VAL:CA	2:E:153:ILE:HD11	2.11	0.81
1:G:571:ALA:O	1:G:572:LYS:CG	2.28	0.81
1:G:643:GLY:N	4:V:24:ASP:HA	1.94	0.81
1:J:218:LEU:HD22	1:J:222:ILE:CG1	2.10	0.81
1:J:578:HIS:HB3	1:J:592:ILE:HD12	1.62	0.81
1:M:724:TYR:CE1	1:M:775:LEU:HG	2.14	0.81
1:M:725:ARG:NH1	3:O:84:PHE:CD1	2.49	0.81
1:P:721:LYS:CA	1:P:736:GLN:NE2	2.43	0.81
4:6:223:PHE:HE1	4:6:255:PHE:HB2	1.46	0.81
1:D:215:GLN:N	1:D:340:ILE:CD1	2.44	0.81
1:G:218:LEU:CA	1:G:221:GLN:HG2	2.10	0.81
1:G:578:HIS:HB3	1:G:592:ILE:HD12	1.62	0.81
1:M:641:LYS:HD2	4:Z:348:SER:CA	2.09	0.81
1:M:818:TYR:CE1	2:N:127:ARG:NH1	2.49	0.81
1:P:218:LEU:CA	1:P:221:GLN:HG2	2.10	0.81
1:P:409:GLY:N	1:P:636:LYS:CG	2.44	0.81
1:P:578:HIS:HB3	1:P:592:ILE:HD12	1.61	0.81
4:3:290:ARG:HH21	4:5:202:THR:HG23	1.42	0.81
1:A:538:GLU:CA	4:8:351:THR:H	1.93	0.80
2:B:117:LEU:HB2	2:B:147:ASN:HD21	1.47	0.80
1:G:232:PHE:CZ	1:G:287:ILE:HD13	2.16	0.80
1:G:641:LYS:HD2	1:G:647:GLN:OE1	1.80	0.80
2:H:141:PRO:HB2	2:H:142:PRO:CD	2.11	0.80
1:J:538:GLU:CA	4:W:351:THR:H	1.92	0.80
1:J:820:VAL:CG1	2:K:136:MET:CE	2.59	0.80
1:M:538:GLU:CA	4:Z:351:THR:H	1.92	0.80
1:P:732:ILE:HG22	1:P:747:LEU:HD12	0.81	0.80
1:P:817:GLN:HG3	2:Q:128:PHE:CE1	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:232:PHE:CZ	1:A:287:ILE:HD13	2.16	0.80
1:D:374:GLN:HG3	1:D:375:ALA:N	1.96	0.80
1:D:480:ILE:HG22	1:D:481:ASN:HD22	1.45	0.80
1:D:640:LYS:CB	1:D:645:SER:OG	2.25	0.80
1:G:480:ILE:HG22	1:G:481:ASN:HD22	1.45	0.80
1:G:537:GLU:HG3	4:V:350:SER:O	1.79	0.80
1:G:732:ILE:CG2	1:G:747:LEU:HD13	1.34	0.80
1:G:732:ILE:HG22	1:G:747:LEU:HD12	0.81	0.80
1:G:819:ASN:HA	2:H:90:GLY:C	1.98	0.80
2:H:117:LEU:HB2	2:H:147:ASN:HD21	1.47	0.80
1:J:599:ASN:CA	1:J:649:VAL:CB	2.53	0.80
3:L:49:ILE:N	3:L:52:ASN:ND2	2.29	0.80
2:N:141:PRO:CB	2:N:142:PRO:HD2	2.11	0.80
2:Q:141:PRO:CB	2:Q:142:PRO:HD2	2.12	0.80
4:4:322:PRO:HB3	4:6:244:ASP:OD2	1.78	0.80
4:8:223:PHE:HE1	4:8:255:PHE:HB2	1.46	0.80
1:A:578:HIS:HB3	1:A:592:ILE:HD12	1.61	0.80
1:D:641:LYS:HD2	4:9:348:SER:CA	2.09	0.80
1:G:557:GLU:HB2	4:X:46:GLY:C	1.99	0.80
2:H:111:SER:OG	2:H:148:VAL:C	2.15	0.80
1:P:797:PHE:CZ	3:R:146:ILE:HA	2.16	0.80
4:1:205:GLU:CG	4:Y:287:ILE:CB	2.33	0.80
4:X:287:ILE:CG1	4:Z:201:VAL:CG2	0.88	0.80
1:A:215:GLN:N	1:A:340:ILE:CD1	2.44	0.80
1:A:734:GLU:O	1:A:738:MET:CG	2.28	0.80
1:G:93:MET:CE	1:G:716:LEU:N	2.45	0.80
1:J:232:PHE:CZ	1:J:287:ILE:HD13	2.16	0.80
1:M:215:GLN:N	1:M:340:ILE:CD1	2.44	0.80
1:M:793:ARG:HH11	3:O:40:ASN:HD22	1.26	0.80
1:P:718:ALA:O	3:R:85:GLU:HG2	1.80	0.80
1:P:797:PHE:CE1	3:R:146:ILE:O	2.34	0.80
4:2:223:PHE:HE1	4:2:255:PHE:HB2	1.46	0.80
4:5:223:PHE:HE1	4:5:255:PHE:HB2	1.46	0.80
4:X:223:PHE:HE1	4:X:255:PHE:HB2	1.46	0.80
1:A:409:GLY:N	1:A:636:LYS:CG	2.44	0.80
1:D:550:PHE:CA	4:W:46:GLY:CA	2.59	0.80
1:G:218:LEU:HA	1:G:221:GLN:HG2	1.62	0.80
3:I:49:ILE:N	3:I:52:ASN:ND2	2.29	0.80
1:J:801:VAL:HG21	3:L:126:LEU:CD2	2.11	0.80
2:N:121:LEU:CG	2:N:128:PHE:CA	2.48	0.80
1:P:84:MLY:CB	1:P:780:ASP:OD2	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:829:TRP:HZ3	2:Q:84:PHE:CZ	2.00	0.80
1:A:732:ILE:HG22	1:A:747:LEU:HD12	0.81	0.80
1:D:819:ASN:OD1	2:E:91:ALA:HA	1.48	0.80
1:G:755:HIS:CG	1:G:779:ARG:HH12	1.97	0.80
1:J:291:ILE:HA	1:J:331:LEU:HD11	1.64	0.80
1:J:542:PHE:CA	4:W:143:TYR:HE1	1.92	0.80
2:K:141:PRO:HB2	2:K:142:PRO:CD	2.11	0.80
2:K:144:VAL:CA	2:K:153:ILE:HD11	2.11	0.80
1:M:107:MLY:HB3	1:M:686:MET:HE2	1.63	0.80
1:M:571:ALA:O	1:M:572:LYS:CG	2.28	0.80
1:P:218:LEU:HA	1:P:221:GLN:HG2	1.62	0.80
1:P:578:HIS:HD2	1:P:591:ASN:HA	1.44	0.80
3:R:49:ILE:N	3:R:52:ASN:ND2	2.29	0.80
4:2:324:THR:CG2	4:4:244:ASP:CA	2.59	0.80
2:B:141:PRO:HB2	2:B:142:PRO:CD	2.11	0.80
2:E:121:LEU:CG	2:E:128:PHE:CA	2.48	0.80
2:E:144:VAL:HG12	2:E:153:ILE:CD1	2.10	0.80
1:G:127:ASN:HD22	1:G:128:PRO:HD2	1.45	0.80
1:J:732:ILE:HG22	1:J:747:LEU:HD12	0.81	0.80
1:J:799:MET:CE	3:L:32:ASP:HB3	2.12	0.80
1:M:374:GLN:HG3	1:M:375:ALA:N	1.96	0.80
1:M:732:ILE:HG21	1:M:747:LEU:HD13	0.90	0.80
2:N:141:PRO:HB2	2:N:142:PRO:CD	2.12	0.80
1:P:215:GLN:N	1:P:340:ILE:CD1	2.44	0.80
1:P:538:GLU:CA	4:1:351:THR:H	1.93	0.80
1:P:641:LYS:HG2	1:P:647:GLN:HG3	1.61	0.80
1:P:805:ALA:HA	1:P:808:GLU:HB2	1.63	0.80
4:1:110:LEU:O	4:2:195:GLU:CB	2.29	0.80
1:D:599:ASN:CA	1:D:649:VAL:CB	2.53	0.80
1:D:732:ILE:HD13	1:D:782:MLY:CH1	2.02	0.80
1:J:710:GLY:CA	1:J:772:LEU:CD2	2.40	0.80
1:P:127:ASN:HD22	1:P:128:PRO:HD2	1.44	0.80
1:P:291:ILE:HA	1:P:331:LEU:HD11	1.64	0.80
4:3:223:PHE:HE1	4:3:255:PHE:HB2	1.46	0.80
1:A:530:MET:CG	4:8:354:GLN:CB	2.30	0.80
1:D:291:ILE:HA	1:D:331:LEU:HD11	1.64	0.80
1:D:409:GLY:N	1:D:636:LYS:CG	2.44	0.80
1:D:641:LYS:HD2	1:D:647:GLN:OE1	1.81	0.80
1:D:727:LEU:CD1	1:D:782:MLY:CH1	2.60	0.80
1:G:796:GLY:N	3:I:35:ARG:CZ	2.45	0.80
1:P:641:LYS:HD2	1:P:647:GLN:OE1	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:223:PHE:HE1	4:V:255:PHE:HB2	1.46	0.80
1:A:823:PHE:CD1	2:B:160:GLY:CA	2.58	0.80
1:G:506:GLU:OE2	1:G:760:PHE:CB	2.29	0.80
1:G:567:LYS:HZ3	4:X:92:ASN:ND2	1.79	0.80
1:G:813:ILE:CG2	2:H:128:PHE:HE1	1.94	0.80
2:H:144:VAL:HG12	2:H:153:ILE:CD1	2.09	0.80
1:J:127:ASN:HD22	1:J:128:PRO:HD2	1.44	0.80
1:J:818:TYR:CD1	2:K:127:ARG:NH1	2.50	0.80
1:J:829:TRP:CE2	2:K:87:LYS:HE2	2.17	0.80
1:M:84:MLY:HB3	1:M:780:ASP:OD2	1.82	0.80
1:M:798:LEU:CD1	3:O:126:LEU:CD1	2.46	0.80
1:M:831:TRP:CZ2	2:N:47:LEU:CD2	2.64	0.80
2:N:144:VAL:CA	2:N:153:ILE:HD11	2.11	0.80
4:W:223:PHE:HE1	4:W:255:PHE:HB2	1.46	0.80
1:D:530:MET:HE1	4:9:355:MET:SD	2.22	0.79
2:E:141:PRO:CB	2:E:142:PRO:HD2	2.11	0.79
3:F:49:ILE:N	3:F:52:ASN:ND2	2.29	0.79
1:J:374:GLN:HG3	1:J:375:ALA:N	1.96	0.79
1:J:792:ALA:H	3:L:42:THR:HG22	0.99	0.79
1:J:834:LEU:HD12	2:K:51:PHE:CE1	2.12	0.79
1:M:95:THR:HG21	1:M:773:GLY:HA2	1.60	0.79
1:M:232:PHE:CZ	1:M:287:ILE:HD13	2.15	0.79
1:M:783:LEU:CA	1:M:786:ILE:CG1	2.55	0.79
2:Q:117:LEU:HB2	2:Q:147:ASN:HD21	1.47	0.79
1:A:291:ILE:HA	1:A:331:LEU:HD11	1.64	0.79
1:A:798:LEU:CD1	3:C:126:LEU:CD1	2.49	0.79
1:A:813:ILE:HD13	2:B:128:PHE:CE1	2.17	0.79
1:D:542:PHE:CA	4:9:143:TYR:HE1	1.92	0.79
1:D:550:PHE:HA	4:W:46:GLY:HA2	1.64	0.79
1:D:732:ILE:HG22	1:D:747:LEU:HD12	0.81	0.79
1:J:784:ALA:O	1:J:788:THR:N	2.14	0.79
1:M:508:ILE:HG23	1:M:759:ALA:HB1	1.62	0.79
1:M:732:ILE:HG22	1:M:747:LEU:HD12	0.81	0.79
1:M:831:TRP:HZ3	2:N:34:ILE:HD13	1.45	0.79
2:Q:121:LEU:CG	2:Q:128:PHE:CA	2.48	0.79
4:7:223:PHE:HE1	4:7:255:PHE:HB2	1.46	0.79
1:A:505:MLY:HG3	1:A:741:LYS:NZ	1.97	0.79
1:A:797:PHE:HZ	3:C:146:ILE:HD13	1.04	0.79
3:C:49:ILE:N	3:C:52:ASN:ND2	2.29	0.79
1:G:834:LEU:HD12	2:H:51:PHE:CE1	2.17	0.79
1:J:793:ARG:HH11	3:L:40:ASN:HD22	1.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:798:LEU:CD2	3:R:126:LEU:HD11	2.12	0.79
4:3:287:ILE:HD13	4:5:203:THR:CB	1.97	0.79
4:X:292:ASP:OD2	4:Z:244:ASP:HB3	1.81	0.79
1:A:550:PHE:N	4:V:46:GLY:HA3	1.97	0.79
1:D:721:LYS:HG2	1:D:736:GLN:CD	1.86	0.79
1:G:92:ALA:O	1:G:713:SER:HA	1.82	0.79
1:G:291:ILE:HA	1:G:331:LEU:HD11	1.64	0.79
1:G:721:LYS:CA	1:G:736:GLN:NE2	2.43	0.79
2:H:141:PRO:CB	2:H:142:PRO:HD2	2.12	0.79
1:P:783:LEU:CB	1:P:786:ILE:HD11	2.12	0.79
1:P:793:ARG:HH11	3:R:40:ASN:HD22	1.27	0.79
1:A:127:ASN:HD22	1:A:128:PRO:HD2	1.45	0.79
1:A:571:ALA:O	1:A:572:LYS:CG	2.28	0.79
1:A:641:LYS:HD2	1:A:647:GLN:OE1	1.81	0.79
2:B:144:VAL:CA	2:B:153:ILE:HD11	2.11	0.79
3:I:50:LEU:C	3:I:53:PRO:HD2	2.03	0.79
1:J:174:SER:CB	1:J:667:THR:HG21	2.13	0.79
1:J:409:GLY:N	1:J:636:LYS:CG	2.44	0.79
2:K:144:VAL:HG12	2:K:153:ILE:CD1	2.10	0.79
1:P:723:ARG:HE	1:P:779:ARG:CA	1.78	0.79
4:2:288:ASP:N	4:4:203:THR:CG2	2.45	0.79
4:X:287:ILE:CG2	4:Z:201:VAL:HG22	2.12	0.79
4:Y:223:PHE:HE1	4:Y:255:PHE:HB2	1.46	0.79
1:A:149:GLN:CG	1:A:718:ALA:HB3	2.12	0.79
2:B:141:PRO:CB	2:B:142:PRO:HD2	2.11	0.79
3:C:50:LEU:C	3:C:53:PRO:HD2	2.03	0.79
1:D:724:TYR:CB	1:D:782:MLY:CD	2.60	0.79
1:G:641:LYS:CE	1:G:647:GLN:HB2	2.13	0.79
1:J:578:HIS:HD2	1:J:591:ASN:HA	1.45	0.79
1:M:798:LEU:HD21	3:O:126:LEU:HD11	1.65	0.79
1:P:174:SER:CB	1:P:667:THR:HG21	2.13	0.79
1:P:800:ARG:CB	3:R:149:VAL:HG22	2.13	0.79
3:R:50:LEU:C	3:R:53:PRO:HD2	2.03	0.79
4:1:173:HIS:CD2	4:2:268:GLY:HA3	2.18	0.79
4:X:287:ILE:HD13	4:Z:205:GLU:HG3	1.65	0.79
1:A:753:VAL:CG1	1:A:775:LEU:CD2	2.60	0.79
1:D:732:ILE:HD12	1:D:782:MLY:CH1	2.10	0.79
1:G:829:TRP:CZ2	2:H:83:MET:HE1	2.18	0.79
1:J:407:GLY:HA2	1:J:412:ALA:HA	1.65	0.79
2:K:141:PRO:CB	2:K:142:PRO:HD2	2.11	0.79
1:M:407:GLY:HA2	1:M:412:ALA:HA	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:642:LYS:CG	4:Z:23:GLY:H	1.77	0.79
1:M:722:GLN:CB	3:O:89:GLU:OE2	2.31	0.79
1:M:783:LEU:HB3	1:M:786:ILE:CD1	2.13	0.79
1:P:571:ALA:O	1:P:572:LYS:CG	2.28	0.79
1:P:646:PHE:CE2	1:P:652:LEU:HD21	2.14	0.79
1:P:792:ALA:HB2	3:R:42:THR:HG22	1.64	0.79
2:Q:141:PRO:HB2	2:Q:142:PRO:CD	2.12	0.79
4:9:287:ILE:HB	4:W:204:ALA:N	1.97	0.79
4:X:287:ILE:H	4:Z:201:VAL:HG23	1.46	0.79
1:A:374:GLN:HG3	1:A:375:ALA:N	1.96	0.79
1:A:530:MET:HE3	4:8:354:GLN:HG2	1.63	0.79
2:B:144:VAL:HG12	2:B:153:ILE:CD1	2.09	0.79
1:D:174:SER:CB	1:D:667:THR:HG21	2.13	0.79
1:D:218:LEU:HA	1:D:221:GLN:HG2	1.62	0.79
1:D:642:LYS:HG2	4:9:22:ALA:HA	1.65	0.79
1:D:831:TRP:HZ2	2:E:47:LEU:CA	1.94	0.79
1:G:409:GLY:N	1:G:636:LYS:CG	2.44	0.79
1:J:218:LEU:CA	1:J:221:GLN:HG2	2.10	0.79
1:P:722:GLN:NE2	3:R:85:GLU:N	2.31	0.79
1:D:127:ASN:HD22	1:D:128:PRO:HD2	1.44	0.79
1:D:726:VAL:CG1	1:D:785:GLU:CB	2.56	0.79
2:E:162:ASP:O	2:K:21:GLU:CB	2.30	0.79
3:O:49:ILE:N	3:O:52:ASN:ND2	2.29	0.79
1:P:718:ALA:O	3:R:85:GLU:CG	2.31	0.79
1:D:538:GLU:HG3	4:9:351:THR:C	2.03	0.79
1:G:817:GLN:HG2	2:H:127:ARG:HB2	1.61	0.79
1:J:529:PRO:C	4:W:354:GLN:CB	2.48	0.79
1:M:820:VAL:CG1	2:N:136:MET:HE1	2.11	0.79
1:P:538:GLU:HG3	4:1:351:THR:C	2.03	0.79
4:1:223:PHE:HE1	4:1:255:PHE:HB2	1.46	0.79
1:A:174:SER:CB	1:A:667:THR:HG21	2.13	0.78
1:J:530:MET:HE2	4:W:354:GLN:HG3	1.65	0.78
1:J:567:LYS:HZ1	4:Y:92:ASN:HD22	1.30	0.78
1:J:813:ILE:CG2	2:K:128:PHE:CE1	2.66	0.78
3:L:50:LEU:C	3:L:53:PRO:HD2	2.03	0.78
1:M:409:GLY:N	1:M:636:LYS:CG	2.44	0.78
1:M:641:LYS:CE	1:M:647:GLN:HB2	2.13	0.78
1:P:537:GLU:O	4:1:350:SER:N	2.16	0.78
1:A:721:LYS:CA	1:A:736:GLN:NE2	2.43	0.78
1:A:800:ARG:HB3	3:C:149:VAL:CG2	2.14	0.78
1:J:571:ALA:O	1:J:572:LYS:CG	2.28	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:538:GLU:HG3	4:Z:351:THR:C	2.03	0.78
1:P:530:MET:CG	4:1:354:GLN:CB	2.30	0.78
4:2:63:GLY:N	4:Z:288:ASP:CG	2.37	0.78
1:A:97:LEU:HD22	1:A:712:PRO:CB	2.12	0.78
1:D:727:LEU:CA	1:D:782:MLY:HE2	2.13	0.78
1:D:831:TRP:HZ2	2:E:47:LEU:CB	1.95	0.78
1:G:792:ALA:HB1	3:I:42:THR:N	1.97	0.78
1:J:51:THR:O	1:J:62:VAL:HG13	1.84	0.78
1:J:537:GLU:O	4:W:350:SER:N	2.16	0.78
1:J:538:GLU:HG3	4:W:351:THR:C	2.03	0.78
2:K:117:LEU:HB2	2:K:147:ASN:HD21	1.47	0.78
1:M:818:TYR:OH	2:N:127:ARG:NH2	2.15	0.78
3:O:50:LEU:C	3:O:53:PRO:HD2	2.03	0.78
4:9:223:PHE:HE1	4:9:255:PHE:HB2	1.46	0.78
1:D:219:GLU:O	1:D:223:ILE:HG13	1.84	0.78
1:D:646:PHE:CE2	1:D:652:LEU:HD21	2.14	0.78
1:G:481:ASN:HD22	1:G:481:ASN:N	1.82	0.78
1:G:538:GLU:HG3	4:V:351:THR:C	2.02	0.78
1:G:556:ASP:OD1	4:X:47:MET:CE	2.27	0.78
1:J:642:LYS:HG2	4:W:22:ALA:HA	1.65	0.78
1:J:732:ILE:HG21	1:J:747:LEU:HD13	0.90	0.78
1:M:725:ARG:HH12	3:O:84:PHE:HD1	1.30	0.78
1:P:646:PHE:HE2	1:P:652:LEU:CD2	1.97	0.78
1:P:767:PHE:HB3	1:P:772:LEU:CD2	1.88	0.78
4:2:63:GLY:HA3	4:Z:288:ASP:CB	2.11	0.78
4:2:324:THR:CB	4:4:244:ASP:HA	2.14	0.78
1:A:51:THR:O	1:A:62:VAL:HG13	1.84	0.78
1:D:218:LEU:CA	1:D:221:GLN:HG2	2.10	0.78
1:D:537:GLU:O	4:9:350:SER:N	2.16	0.78
1:J:829:TRP:HZ3	2:K:84:PHE:CZ	2.01	0.78
1:M:530:MET:CG	4:Z:354:GLN:CB	2.30	0.78
1:M:639:GLY:CA	4:Z:345:ILE:N	2.47	0.78
1:M:798:LEU:CD2	3:O:126:LEU:HD11	2.14	0.78
1:P:642:LYS:HG2	4:1:22:ALA:HA	1.65	0.78
1:A:641:LYS:CE	1:A:647:GLN:HB2	2.13	0.78
1:D:550:PHE:N	4:W:46:GLY:HA3	1.97	0.78
1:G:407:GLY:HA2	1:G:412:ALA:HA	1.65	0.78
1:G:508:ILE:HD11	1:G:759:ALA:HB2	0.81	0.78
1:J:646:PHE:CE2	1:J:652:LEU:HD21	2.14	0.78
1:P:795:ARG:CD	3:R:43:ASN:CG	2.52	0.78
1:P:798:LEU:HD11	3:R:126:LEU:CG	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:639:GLY:CA	4:8:345:ILE:N	2.47	0.78
1:A:646:PHE:HE2	1:A:652:LEU:CD2	1.97	0.78
1:A:819:ASN:CB	2:B:90:GLY:O	2.32	0.78
1:A:823:PHE:HE1	2:B:160:GLY:HA2	1.08	0.78
3:C:49:ILE:N	3:C:52:ASN:HD22	1.82	0.78
1:J:28:GLN:OE1	1:J:723:ARG:CG	2.32	0.78
1:J:817:GLN:CD	2:K:127:ARG:CD	2.47	0.78
1:M:496:PHE:CD2	1:M:514:ASP:HA	2.19	0.78
1:P:797:PHE:CE2	3:R:146:ILE:CD1	2.33	0.78
4:3:290:ARG:NH2	4:5:202:THR:HG22	1.98	0.78
1:A:496:PHE:CD2	1:A:514:ASP:HA	2.19	0.78
1:D:639:GLY:CA	4:9:345:ILE:N	2.47	0.78
2:E:163:ALA:C	2:K:22:THR:N	2.37	0.78
1:G:51:THR:O	1:G:62:VAL:HG13	1.84	0.78
1:M:51:THR:O	1:M:62:VAL:HG13	1.84	0.78
1:M:174:SER:CB	1:M:667:THR:HG21	2.13	0.78
1:M:530:MET:HE1	4:Z:355:MET:SD	2.24	0.78
1:M:646:PHE:HE2	1:M:652:LEU:CD2	1.97	0.78
1:M:722:GLN:NE2	3:O:86:ASP:HA	1.99	0.78
1:M:737:PHE:CG	3:O:84:PHE:HZ	2.02	0.78
1:P:548:THR:HG21	4:3:49:GLN:H	1.45	0.78
1:P:635:GLY:HA3	4:1:341:ILE:CD1	2.14	0.78
1:P:718:ALA:HB1	3:R:85:GLU:HG3	1.66	0.78
1:P:831:TRP:CZ2	2:Q:47:LEU:CD2	2.67	0.78
1:A:97:LEU:HD22	1:A:712:PRO:HB3	1.64	0.78
1:A:538:GLU:HG3	4:8:351:THR:C	2.03	0.78
1:A:732:ILE:HG21	1:A:747:LEU:HD13	0.91	0.78
1:D:496:PHE:CD2	1:D:514:ASP:HA	2.19	0.78
1:D:635:GLY:HA3	4:9:341:ILE:CD1	2.14	0.78
1:D:727:LEU:N	1:D:782:MLY:CE	2.46	0.78
1:D:795:ARG:HB3	3:F:35:ARG:HH12	1.04	0.78
2:E:141:PRO:HB2	2:E:142:PRO:CD	2.12	0.78
1:G:496:PHE:CD2	1:G:514:ASP:HA	2.19	0.78
1:G:639:GLY:CA	4:V:345:ILE:N	2.47	0.78
1:J:219:GLU:O	1:J:223:ILE:HG13	1.84	0.78
1:M:291:ILE:HA	1:M:331:LEU:HD11	1.64	0.78
1:P:51:THR:O	1:P:62:VAL:HG13	1.84	0.78
1:P:789:ALA:CB	3:R:81:GLN:CD	2.52	0.78
1:P:819:ASN:OD1	2:Q:92:ASP:CA	2.31	0.78
4:2:287:ILE:CB	4:4:203:THR:HG22	2.14	0.78
1:A:498:LEU:HD23	1:A:764:MLY:HH22	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:641:LYS:CE	1:D:647:GLN:HB2	2.13	0.78
3:F:50:LEU:C	3:F:53:PRO:HD2	2.03	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:797:PHE:CD1	3:I:146:ILE:CG2	2.61	0.78
1:J:635:GLY:HA3	4:W:341:ILE:CD1	2.14	0.78
1:J:646:PHE:HE2	1:J:652:LEU:CD2	1.97	0.78
1:M:537:GLU:O	4:Z:350:SER:N	2.16	0.78
1:M:797:PHE:CE2	3:O:146:ILE:CD1	2.46	0.78
1:P:84:MLY:HB3	1:P:780:ASP:OD2	1.84	0.78
1:P:722:GLN:HE22	3:R:86:ASP:N	1.74	0.78
1:P:797:PHE:CE1	3:R:146:ILE:HG23	2.19	0.78
1:P:829:TRP:CZ3	2:Q:84:PHE:CZ	2.71	0.78
4:4:223:PHE:HD2	4:4:312:ARG:HH21	1.32	0.78
1:A:407:GLY:HA2	1:A:412:ALA:HA	1.65	0.77
1:A:795:ARG:NH2	3:C:116:GLU:HB3	2.00	0.77
1:D:727:LEU:CG	1:D:782:MLY:CH1	2.62	0.77
1:G:174:SER:CB	1:G:667:THR:HG21	2.13	0.77
1:M:116:TYR:O	1:M:153:PRO:HB2	1.84	0.77
1:P:219:GLU:O	1:P:223:ILE:HG13	1.84	0.77
1:P:806:MET:O	1:P:809:ARG:HB2	1.83	0.77
3:R:49:ILE:N	3:R:52:ASN:HD22	1.82	0.77
4:2:63:GLY:CA	4:Z:288:ASP:HB2	2.13	0.77
4:6:223:PHE:HD2	4:6:312:ARG:HH21	1.32	0.77
4:8:287:ILE:HB	4:V:204:ALA:N	1.97	0.77
1:D:51:THR:O	1:D:62:VAL:HG13	1.84	0.77
1:D:507:GLY:HA2	1:D:762:HIS:ND1	1.99	0.77
1:G:795:ARG:NE	3:I:116:GLU:CB	2.17	0.77
3:I:3:SER:O	3:I:4:LYS:HB2	1.84	0.77
1:J:496:PHE:CD2	1:J:514:ASP:HA	2.19	0.77
1:J:756:THR:HG22	1:J:776:GLU:CA	2.09	0.77
1:P:95:THR:HG21	1:P:773:GLY:HA2	1.66	0.77
4:2:287:ILE:HG21	4:4:202:THR:C	2.05	0.77
4:3:322:PRO:HB2	4:5:244:ASP:HB2	1.65	0.77
4:Z:223:PHE:HD2	4:Z:312:ARG:HH21	1.32	0.77
1:J:817:GLN:HB3	2:K:127:ARG:HD2	1.48	0.77
1:M:709:LYS:O	1:M:768:MLY:CH1	2.32	0.77
4:2:287:ILE:HG13	4:4:202:THR:HA	1.64	0.77
1:A:550:PHE:HA	4:V:46:GLY:HA2	1.64	0.77
1:A:599:ASN:CA	1:A:649:VAL:CB	2.54	0.77
1:D:735:GLY:C	1:D:743:ALA:HB2	1.82	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:798:LEU:CG	3:F:126:LEU:HD11	2.12	0.77
1:G:641:LYS:CE	1:G:647:GLN:CG	2.60	0.77
1:J:641:LYS:CE	1:J:647:GLN:HB2	2.13	0.77
1:P:218:LEU:HD22	1:P:222:ILE:HG12	1.67	0.77
1:P:639:GLY:CA	4:1:345:ILE:N	2.47	0.77
1:P:767:PHE:CD1	1:P:772:LEU:CD1	2.66	0.77
1:P:789:ALA:HB2	3:R:81:GLN:CG	2.12	0.77
1:P:826:VAL:HG21	2:Q:88:LEU:HD23	1.66	0.77
4:7:287:ILE:HB	4:9:204:ALA:N	1.97	0.77
4:V:223:PHE:HD2	4:V:312:ARG:HH21	1.33	0.77
4:X:291:LYS:HB3	4:Z:246:GLN:CB	2.14	0.77
1:A:93:MET:CE	1:A:715:VAL:CA	2.34	0.77
1:A:537:GLU:O	4:8:350:SER:N	2.16	0.77
1:A:813:ILE:HG21	2:B:127:ARG:HD2	1.66	0.77
1:D:407:GLY:HA2	1:D:412:ALA:HA	1.65	0.77
1:D:646:PHE:HE2	1:D:652:LEU:CD2	1.97	0.77
1:D:813:ILE:CD1	2:E:128:PHE:HE1	1.94	0.77
1:D:831:TRP:CH2	2:E:47:LEU:HD23	2.20	0.77
1:G:538:GLU:OE2	4:V:355:MET:HE3	1.83	0.77
1:G:646:PHE:HE2	1:G:652:LEU:CD2	1.97	0.77
1:J:116:TYR:O	1:J:153:PRO:HB2	1.85	0.77
1:J:639:GLY:CA	4:W:345:ILE:N	2.46	0.77
1:M:783:LEU:CB	1:M:786:ILE:CD1	2.62	0.77
1:P:407:GLY:HA2	1:P:412:ALA:HA	1.65	0.77
1:P:641:LYS:CE	1:P:647:GLN:CG	2.60	0.77
1:P:735:GLY:C	1:P:743:ALA:HB2	1.82	0.77
4:2:223:PHE:HD2	4:2:312:ARG:HH21	1.33	0.77
4:4:288:ASP:N	4:6:203:THR:CG2	2.46	0.77
4:Y:265:SER:CB	4:Z:39:ARG:NH2	2.48	0.77
1:A:149:GLN:CB	1:A:718:ALA:C	2.45	0.77
1:G:732:ILE:N	1:G:733:PRO:HD2	2.00	0.77
1:M:556:ASP:OD2	4:2:41:GLN:CD	2.22	0.77
1:M:629:GLU:HA	1:M:643:GLY:C	2.05	0.77
1:M:723:ARG:HH21	1:M:783:LEU:HD13	1.48	0.77
1:P:721:LYS:CA	1:P:736:GLN:OE1	2.33	0.77
4:X:223:PHE:HD2	4:X:312:ARG:HH21	1.33	0.77
1:A:166:MET:HE1	1:A:254:PHE:HB2	1.65	0.77
1:A:529:PRO:C	4:8:354:GLN:CB	2.49	0.77
1:A:797:PHE:CE1	3:C:146:ILE:HG23	2.20	0.77
3:C:3:SER:O	3:C:4:LYS:HB2	1.84	0.77
1:D:553:MLY:NZ	4:W:45:VAL:HA	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:117:LEU:HB2	2:E:147:ASN:HD21	1.47	0.77
1:G:642:LYS:HG2	4:V:22:ALA:HA	1.65	0.77
1:G:721:LYS:CA	1:G:736:GLN:OE1	2.33	0.77
1:G:733:PRO:C	1:G:737:PHE:HD1	1.88	0.77
1:G:799:MET:SD	3:I:32:ASP:OD2	2.42	0.77
1:G:829:TRP:CZ2	2:H:83:MET:CE	2.68	0.77
1:J:97:LEU:CD2	1:J:712:PRO:HB2	2.14	0.77
1:J:735:GLY:C	1:J:743:ALA:HB2	1.82	0.77
1:M:641:LYS:CE	1:M:647:GLN:CG	2.60	0.77
3:O:3:SER:O	3:O:4:LYS:HB2	1.84	0.77
3:O:49:ILE:N	3:O:52:ASN:HD22	1.82	0.77
1:P:116:TYR:O	1:P:153:PRO:HB2	1.85	0.77
4:2:324:THR:HG23	4:4:244:ASP:CA	2.14	0.77
1:A:641:LYS:CE	1:A:647:GLN:CG	2.60	0.77
1:A:797:PHE:CE2	3:C:126:LEU:HD22	2.14	0.77
1:D:94:MET:CE	1:D:101:ALA:HB1	2.15	0.77
1:D:410:ASN:CG	4:9:334:GLU:CA	2.47	0.77
2:E:111:SER:OG	2:E:148:VAL:C	2.15	0.77
1:P:732:ILE:HG21	1:P:747:LEU:HD13	0.90	0.77
1:P:733:PRO:C	1:P:737:PHE:HD1	1.88	0.77
4:4:322:PRO:HB3	4:6:244:ASP:CB	2.10	0.77
4:8:223:PHE:HD2	4:8:312:ARG:HH21	1.33	0.77
1:A:534:SER:O	4:8:351:THR:N	2.18	0.77
1:A:635:GLY:HA3	4:8:341:ILE:CD1	2.14	0.77
1:D:218:LEU:HB3	1:D:221:GLN:HG3	1.61	0.77
1:G:629:GLU:HA	1:G:643:GLY:C	2.05	0.77
1:G:798:LEU:CD2	3:I:118:MET:CB	2.61	0.77
1:M:85:TYR:OH	1:M:776:GLU:HG3	1.85	0.77
1:M:219:GLU:O	1:M:223:ILE:HG13	1.84	0.77
1:M:481:ASN:HD22	1:M:481:ASN:N	1.82	0.77
1:M:721:LYS:CA	1:M:736:GLN:OE1	2.33	0.77
1:M:723:ARG:NH1	1:M:779:ARG:CZ	2.48	0.77
1:M:792:ALA:HB2	3:O:42:THR:CB	2.12	0.77
1:P:84:MLY:N	1:P:780:ASP:OD2	2.17	0.77
4:7:223:PHE:HD2	4:7:312:ARG:HH21	1.32	0.77
1:A:149:GLN:HE21	1:A:718:ALA:HB3	0.95	0.77
1:A:219:GLU:O	1:A:223:ILE:HG13	1.84	0.77
1:A:502:GLU:CG	1:A:764:MLY:O	2.33	0.77
1:A:556:ASP:HA	4:V:49:GLN:O	1.70	0.77
1:A:623:PHE:CG	1:A:623:PHE:CA	2.68	0.77
1:D:727:LEU:CD1	1:D:782:MLY:NZ	2.44	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:HG2	3:F:118:MET:HE3	1.67	0.77
1:D:838:ILE:CD1	2:E:54:MET:HE1	2.14	0.77
1:G:94:MET:CE	1:G:101:ALA:HB1	2.15	0.77
1:G:829:TRP:HH2	2:H:83:MET:HE3	1.47	0.77
3:L:3:SER:O	3:L:4:LYS:HB2	1.84	0.77
1:M:732:ILE:N	1:M:733:PRO:HD2	2.00	0.77
1:M:767:PHE:CD1	1:M:772:LEU:CD1	2.68	0.77
1:M:817:GLN:HB3	2:N:127:ARG:HD3	1.67	0.77
2:N:117:LEU:HB2	2:N:147:ASN:HD21	1.47	0.77
2:N:121:LEU:CG	2:N:128:PHE:HA	2.14	0.77
4:3:322:PRO:CB	4:5:244:ASP:OD2	2.26	0.77
4:4:288:ASP:H	4:6:203:THR:CG2	1.98	0.77
1:D:623:PHE:CG	1:D:623:PHE:CA	2.68	0.76
1:G:149:GLN:HB3	1:G:716:LEU:CD2	2.09	0.76
1:G:552:ASN:O	4:X:47:MET:HE1	1.81	0.76
1:G:635:GLY:HA3	4:V:341:ILE:CD1	2.14	0.76
1:J:829:TRP:CZ3	2:K:84:PHE:CZ	2.73	0.76
1:M:218:LEU:HD22	1:M:222:ILE:HG12	1.67	0.76
1:P:94:MET:CE	1:P:101:ALA:HB1	2.15	0.76
1:P:782:MLY:HH23	3:R:80:ASP:CB	2.13	0.76
1:P:831:TRP:HZ3	2:Q:34:ILE:HD13	1.49	0.76
2:Q:144:VAL:HG12	2:Q:153:ILE:CD1	2.09	0.76
4:1:166:TYR:CZ	4:3:64:ILE:CG2	2.68	0.76
4:2:288:ASP:OD1	4:4:203:THR:HG23	1.84	0.76
4:5:223:PHE:HD2	4:5:312:ARG:HH21	1.32	0.76
4:9:223:PHE:HD2	4:9:312:ARG:HH21	1.33	0.76
4:Y:223:PHE:HD2	4:Y:312:ARG:HH21	1.32	0.76
1:A:733:PRO:C	1:A:737:PHE:HD1	1.88	0.76
1:D:218:LEU:HD22	1:D:222:ILE:HG12	1.67	0.76
1:G:410:ASN:CG	4:V:334:GLU:CA	2.47	0.76
1:G:769:ALA:HB1	1:G:770:GLY:N	1.98	0.76
1:J:93:MET:CG	1:J:715:VAL:HA	2.16	0.76
1:J:836:PHE:CE1	2:K:159:HIS:CA	2.61	0.76
1:M:94:MET:CE	1:M:101:ALA:HB1	2.15	0.76
1:P:792:ALA:H	3:R:42:THR:HG22	1.50	0.76
2:Q:111:SER:OG	2:Q:148:VAL:C	2.15	0.76
4:1:223:PHE:HD2	4:1:312:ARG:HH21	1.32	0.76
4:3:223:PHE:HD2	4:3:312:ARG:HH21	1.32	0.76
1:A:502:GLU:HG3	1:A:761:GLY:HA3	1.61	0.76
1:A:629:GLU:HA	1:A:643:GLY:C	2.05	0.76
3:I:49:ILE:N	3:I:52:ASN:HD22	1.82	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:725:ARG:HG3	1:M:733:PRO:HA	1.67	0.76
2:Q:121:LEU:CG	2:Q:128:PHE:HA	2.14	0.76
4:4:322:PRO:CB	4:6:244:ASP:HB2	2.14	0.76
1:D:116:TYR:O	1:D:153:PRO:HB2	1.85	0.76
1:D:537:GLU:HG3	4:9:350:SER:O	1.79	0.76
2:E:121:LEU:CG	2:E:128:PHE:HA	2.14	0.76
1:G:623:PHE:CG	1:G:623:PHE:CA	2.68	0.76
1:J:831:TRP:NE1	2:K:67:MET:HB3	1.98	0.76
1:M:829:TRP:CE2	2:N:87:LYS:HE2	2.19	0.76
1:P:496:PHE:CD2	1:P:514:ASP:HA	2.19	0.76
1:P:725:ARG:HG3	1:P:733:PRO:HA	1.67	0.76
1:P:817:GLN:HG2	2:Q:127:ARG:CD	2.14	0.76
1:P:819:ASN:OD1	2:Q:92:ASP:HB2	1.74	0.76
4:1:167:GLU:HB3	4:3:41:GLN:O	1.84	0.76
4:V:325:MET:CE	4:X:244:ASP:OD2	2.34	0.76
4:Y:265:SER:CB	4:Z:39:ARG:HH22	1.98	0.76
1:D:641:LYS:CE	1:D:647:GLN:CG	2.60	0.76
1:D:830:PRO:HB2	2:E:51:PHE:CZ	2.19	0.76
1:J:94:MET:CE	1:J:101:ALA:HB1	2.15	0.76
1:J:505:MLY:CD	1:J:762:HIS:HE1	1.95	0.76
1:J:537:GLU:HG3	4:W:350:SER:O	1.78	0.76
1:J:623:PHE:CG	1:J:623:PHE:CA	2.68	0.76
1:J:754:ASP:HA	1:J:780:ASP:OD2	1.84	0.76
1:P:641:LYS:CE	1:P:647:GLN:HB2	2.13	0.76
1:A:649:VAL:CG1	1:A:649:VAL:CB	2.64	0.76
1:D:664:LEU:O	1:D:667:THR:HB	1.86	0.76
1:D:725:ARG:HG3	1:D:733:PRO:HA	1.68	0.76
1:G:116:TYR:O	1:G:153:PRO:HB2	1.85	0.76
1:G:799:MET:SD	3:I:32:ASP:CG	2.64	0.76
4:3:288:ASP:H	4:5:203:THR:CG2	1.98	0.76
4:W:291:LYS:HB3	4:Y:244:ASP:HB3	1.66	0.76
1:A:94:MET:CE	1:A:101:ALA:HB1	2.15	0.76
1:A:664:LEU:O	1:A:667:THR:HB	1.86	0.76
3:F:3:SER:O	3:F:4:LYS:HB2	1.84	0.76
1:J:649:VAL:CG1	1:J:649:VAL:CB	2.64	0.76
2:K:121:LEU:CG	2:K:128:PHE:HA	2.14	0.76
1:M:623:PHE:CG	1:M:623:PHE:CA	2.68	0.76
1:M:635:GLY:HA3	4:Z:341:ILE:CD1	2.14	0.76
1:P:723:ARG:NE	1:P:779:ARG:HB2	2.01	0.76
4:8:290:ARG:NH1	4:V:202:THR:CG2	2.49	0.76
1:D:534:SER:O	4:9:351:THR:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:636:LYS:O	1:D:637:LYS:HB2	1.86	0.76
1:D:713:SER:H	1:D:771:LEU:HD22	1.00	0.76
1:D:768:MLY:C	1:D:771:LEU:HA	2.16	0.76
1:J:218:LEU:HD22	1:J:222:ILE:HG12	1.67	0.76
1:J:534:SER:O	4:W:351:THR:N	2.19	0.76
3:L:49:ILE:N	3:L:52:ASN:HD22	1.83	0.76
1:P:649:VAL:CG1	1:P:649:VAL:CB	2.64	0.76
4:X:291:LYS:HG2	4:Z:245:GLY:H	1.48	0.76
1:A:218:LEU:HD22	1:A:222:ILE:HG12	1.67	0.76
2:B:111:SER:OG	2:B:148:VAL:C	2.15	0.76
1:D:649:VAL:CG1	1:D:649:VAL:CB	2.64	0.76
1:D:792:ALA:CB	3:F:42:THR:CG2	2.11	0.76
1:G:664:LEU:O	1:G:667:THR:HB	1.86	0.76
1:J:819:ASN:OD1	2:K:92:ASP:CB	2.34	0.76
1:J:820:VAL:CG1	2:K:136:MET:HE3	2.10	0.76
1:M:783:LEU:HA	1:M:786:ILE:HG13	1.59	0.76
1:P:629:GLU:HA	1:P:643:GLY:C	2.05	0.76
4:7:290:ARG:NH1	4:9:202:THR:CG2	2.49	0.76
1:A:642:LYS:HG2	4:8:22:ALA:HA	1.66	0.76
1:A:795:ARG:CB	3:C:35:ARG:HH12	1.71	0.76
1:J:817:GLN:HG2	2:K:127:ARG:CD	2.08	0.76
1:M:646:PHE:CE2	1:M:652:LEU:HD21	2.14	0.76
1:P:218:LEU:HB3	1:P:221:GLN:HG3	1.60	0.76
1:A:732:ILE:N	1:A:733:PRO:HD2	2.00	0.75
1:D:713:SER:HB2	1:D:775:LEU:HD22	1.62	0.75
3:F:49:ILE:N	3:F:52:ASN:HD22	1.82	0.75
1:J:636:LYS:O	1:J:637:LYS:HB2	1.86	0.75
1:M:831:TRP:CH2	2:N:47:LEU:HD22	2.20	0.75
1:P:795:ARG:NE	3:R:43:ASN:OD1	2.17	0.75
4:W:223:PHE:HD2	4:W:312:ARG:HH21	1.33	0.75
4:X:291:LYS:HB3	4:Z:246:GLN:HB2	1.68	0.75
1:A:481:ASN:HD22	1:A:481:ASN:N	1.82	0.75
1:D:732:ILE:N	1:D:733:PRO:HD2	2.00	0.75
1:G:28:GLN:CB	1:G:723:ARG:NH1	2.38	0.75
1:G:510:TRP:CH2	1:G:768:MLY:HH11	2.20	0.75
1:G:798:LEU:HD22	3:I:118:MET:HG3	1.68	0.75
1:J:84:MLY:O	1:J:723:ARG:CD	2.29	0.75
1:J:818:TYR:OH	2:K:127:ARG:NH2	2.17	0.75
1:M:541:MET:O	4:Z:143:TYR:CZ	2.40	0.75
1:P:95:THR:HG21	1:P:773:GLY:CA	2.16	0.75
4:2:64:ILE:HD13	4:Z:166:TYR:HH	1.46	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:287:ILE:HD11	4:X:201:VAL:O	1.75	0.75
4:X:288:ASP:HA	4:Z:242:LEU:HD23	1.67	0.75
4:X:291:LYS:CB	4:Z:246:GLN:N	2.45	0.75
1:A:837:MLY:HH22	2:H:21:GLU:N	2.01	0.75
1:D:823:PHE:CD1	2:E:160:GLY:HA2	2.21	0.75
1:J:664:LEU:O	1:J:667:THR:HB	1.86	0.75
1:M:796:GLY:HA2	3:O:35:ARG:CD	2.16	0.75
1:A:721:LYS:CA	1:A:736:GLN:OE1	2.33	0.75
1:D:831:TRP:HZ3	2:E:34:ILE:HG23	1.44	0.75
1:G:796:GLY:HA2	3:I:35:ARG:CZ	2.15	0.75
1:G:831:TRP:HH2	2:H:47:LEU:HD21	0.97	0.75
1:J:350:ALA:O	1:J:354:LEU:HB2	1.87	0.75
1:J:629:GLU:HA	1:J:643:GLY:C	2.05	0.75
1:J:732:ILE:N	1:J:733:PRO:HD2	2.01	0.75
1:M:538:GLU:OE2	4:Z:355:MET:HE3	1.87	0.75
1:M:642:LYS:HG2	4:Z:22:ALA:HA	1.65	0.75
1:M:803:TYR:CE1	1:M:807:VAL:HG21	2.21	0.75
1:P:623:PHE:CG	1:P:623:PHE:CA	2.68	0.75
1:P:664:LEU:O	1:P:667:THR:HB	1.86	0.75
1:P:732:ILE:N	1:P:733:PRO:HD2	2.01	0.75
4:1:205:GLU:CG	4:Y:287:ILE:CD1	2.64	0.75
4:1:368:SER:OG	4:2:231:ALA:HB1	1.86	0.75
1:A:797:PHE:CD2	3:C:146:ILE:HG23	2.21	0.75
1:D:830:PRO:HG2	2:E:67:MET:CE	2.17	0.75
1:G:506:GLU:OE2	1:G:760:PHE:C	2.24	0.75
1:G:649:VAL:CG1	1:G:649:VAL:CB	2.64	0.75
1:J:310:TYR:CE2	1:J:320:ILE:HD11	2.22	0.75
1:J:789:ALA:CB	3:L:81:GLN:CD	2.55	0.75
1:M:817:GLN:CB	2:N:127:ARG:CD	2.54	0.75
1:M:826:VAL:HG21	2:N:88:LEU:HD23	1.66	0.75
1:M:831:TRP:CZ2	2:N:47:LEU:HD21	2.21	0.75
1:P:310:TYR:CE2	1:P:320:ILE:HD11	2.22	0.75
1:P:534:SER:O	4:1:351:THR:N	2.19	0.75
1:A:795:ARG:NH2	3:C:116:GLU:CB	2.47	0.75
1:A:831:TRP:CD1	2:B:51:PHE:HE1	2.04	0.75
1:D:629:GLU:HA	1:D:643:GLY:C	2.05	0.75
1:D:739:ASP:CB	1:D:742:LYS:HB3	2.12	0.75
1:D:838:ILE:CD1	2:E:54:MET:HE3	2.17	0.75
1:J:410:ASN:CG	4:W:334:GLU:CA	2.47	0.75
1:M:350:ALA:O	1:M:354:LEU:HB2	1.87	0.75
1:M:737:PHE:HE2	3:O:84:PHE:CD2	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:791:GLN:HE22	3:O:115:GLY:CA	2.00	0.75
4:1:167:GLU:OE1	4:3:42:GLY:HA2	1.85	0.75
1:A:646:PHE:CE2	1:A:652:LEU:HD21	2.14	0.75
1:A:819:ASN:ND2	2:B:90:GLY:C	2.35	0.75
1:D:350:ALA:O	1:D:354:LEU:HB2	1.87	0.75
1:G:218:LEU:HD22	1:G:222:ILE:HG12	1.66	0.75
1:G:541:MET:O	4:V:143:TYR:CZ	2.40	0.75
1:M:649:VAL:CG1	1:M:649:VAL:CB	2.64	0.75
1:M:664:LEU:O	1:M:667:THR:HB	1.86	0.75
1:P:537:GLU:HG3	4:1:350:SER:O	1.78	0.75
1:P:724:TYR:OH	1:P:775:LEU:HG	1.83	0.75
1:A:116:TYR:O	1:A:153:PRO:HB2	1.85	0.75
1:A:149:GLN:HG2	1:A:719:ASP:CB	2.17	0.75
1:A:837:MLY:CH2	2:H:20:ASP:HA	2.16	0.75
1:D:726:VAL:CG1	1:D:785:GLU:CG	2.59	0.75
1:G:530:MET:HE3	4:V:354:GLN:HG2	1.65	0.75
1:G:538:GLU:O	4:V:349:LEU:HG	1.87	0.75
1:G:757:GLN:HG2	1:G:776:GLU:CD	2.01	0.75
1:J:541:MET:O	4:W:143:TYR:CZ	2.40	0.75
1:M:806:MET:O	1:M:810:ARG:N	2.20	0.75
1:P:350:ALA:O	1:P:354:LEU:HB2	1.87	0.75
1:P:831:TRP:CZ2	2:Q:47:LEU:HD22	2.20	0.75
1:A:707:CYS:CA	1:A:714:ARG:CZ	2.60	0.75
1:A:725:ARG:HG3	1:A:733:PRO:HA	1.67	0.75
1:D:733:PRO:C	1:D:737:PHE:HD1	1.88	0.75
1:J:641:LYS:CE	1:J:647:GLN:CG	2.60	0.75
1:J:725:ARG:HG3	1:J:733:PRO:HA	1.67	0.75
1:J:793:ARG:NH1	3:L:40:ASN:HD22	1.85	0.75
1:M:797:PHE:HE1	3:O:146:ILE:HA	1.35	0.75
4:5:253:GLU:HA	4:5:256:ARG:HG3	1.69	0.75
4:8:253:GLU:HA	4:8:256:ARG:HG3	1.69	0.75
1:A:830:PRO:HB2	2:B:51:PHE:CE1	2.21	0.74
2:B:150:TYR:C	2:B:151:LYS:CG	2.49	0.74
1:D:215:GLN:NE2	1:D:336:SER:O	2.20	0.74
1:D:310:TYR:CE2	1:D:320:ILE:HD11	2.22	0.74
1:G:166:MET:HE1	1:G:254:PHE:HB2	1.68	0.74
1:G:725:ARG:HG3	1:G:733:PRO:HA	1.67	0.74
1:G:783:LEU:O	1:G:787:ILE:CB	2.35	0.74
1:J:641:LYS:HD2	1:J:647:GLN:OE1	1.81	0.74
1:J:789:ALA:HB1	3:L:81:GLN:CD	2.08	0.74
1:P:481:ASN:HD22	1:P:481:ASN:N	1.82	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:636:LYS:O	1:P:637:LYS:HB2	1.86	0.74
3:R:3:SER:O	3:R:4:LYS:HB2	1.84	0.74
4:3:290:ARG:NH2	4:5:202:THR:HG21	1.60	0.74
4:4:287:ILE:HB	4:6:203:THR:HG22	1.69	0.74
4:W:324:THR:CG2	4:Y:247:VAL:HG22	2.16	0.74
1:A:409:GLY:HA3	4:8:333:PRO:N	2.02	0.74
1:A:736:GLN:HA	1:A:743:ALA:HB2	1.51	0.74
1:D:538:GLU:CD	4:9:355:MET:HE3	2.07	0.74
1:G:350:ALA:O	1:G:354:LEU:HB2	1.87	0.74
1:G:486:MLY:HH13	1:G:527:GLU:OE1	1.87	0.74
1:G:735:GLY:C	1:G:743:ALA:HB1	1.84	0.74
1:G:798:LEU:HD22	3:I:118:MET:CG	2.17	0.74
1:J:817:GLN:HG3	2:K:128:PHE:CE1	2.22	0.74
1:M:310:TYR:CE2	1:M:320:ILE:HD11	2.22	0.74
1:M:641:LYS:HD2	1:M:647:GLN:OE1	1.81	0.74
1:M:733:PRO:C	1:M:737:PHE:HD1	1.88	0.74
1:P:767:PHE:CB	1:P:772:LEU:CD1	2.66	0.74
4:3:253:GLU:HA	4:3:256:ARG:HG3	1.69	0.74
4:X:287:ILE:HB	4:Z:205:GLU:HG3	1.67	0.74
4:Z:253:GLU:HA	4:Z:256:ARG:HG3	1.69	0.74
1:A:215:GLN:NE2	1:A:336:SER:O	2.20	0.74
1:G:769:ALA:HB3	1:G:770:GLY:N	2.01	0.74
1:G:796:GLY:CA	3:I:35:ARG:CZ	2.64	0.74
1:J:481:ASN:HD22	1:J:481:ASN:N	1.82	0.74
1:M:534:SER:O	4:Z:351:THR:N	2.19	0.74
1:P:821:ARG:NH2	2:Q:127:ARG:CD	2.50	0.74
4:9:288:ASP:H	4:W:203:THR:HG22	1.52	0.74
1:A:541:MET:O	4:8:143:TYR:CZ	2.40	0.74
1:D:541:MET:O	4:9:143:TYR:CZ	2.40	0.74
1:G:795:ARG:NE	3:I:116:GLU:OE2	2.20	0.74
1:J:538:GLU:O	4:W:349:LEU:HG	1.86	0.74
1:J:735:GLY:CA	1:J:743:ALA:HA	2.17	0.74
1:M:709:LYS:O	1:M:768:MLY:HH13	1.88	0.74
1:M:723:ARG:CZ	1:M:783:LEU:HD11	2.17	0.74
1:M:732:ILE:N	1:M:733:PRO:CD	2.51	0.74
1:P:215:GLN:NE2	1:P:336:SER:O	2.20	0.74
4:X:253:GLU:HA	4:X:256:ARG:HG3	1.69	0.74
4:X:286:ASP:OD2	4:Z:204:ALA:HB3	1.88	0.74
1:A:735:GLY:CA	1:A:743:ALA:HA	2.17	0.74
1:D:735:GLY:CA	1:D:743:ALA:HA	2.18	0.74
1:G:215:GLN:NE2	1:G:336:SER:O	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:436:MLY:HE3	1:G:626:TYR:CE1	2.23	0.74
1:G:508:ILE:CD1	1:G:759:ALA:CB	2.47	0.74
1:G:732:ILE:N	1:G:733:PRO:CD	2.51	0.74
1:J:218:LEU:HB3	1:J:221:GLN:HG3	1.60	0.74
1:M:739:ASP:CB	1:M:742:LYS:HB3	2.12	0.74
1:M:767:PHE:CG	1:M:772:LEU:CD1	2.70	0.74
1:M:799:MET:SD	3:O:32:ASP:CA	2.75	0.74
1:M:821:ARG:HH22	2:N:127:ARG:CG	1.85	0.74
1:P:530:MET:HE2	4:1:354:GLN:HG3	1.70	0.74
1:P:538:GLU:HA	4:1:349:LEU:HD12	0.74	0.74
4:8:288:ASP:H	4:V:203:THR:HG22	1.52	0.74
4:V:253:GLU:HA	4:V:256:ARG:HG3	1.69	0.74
1:A:640:LYS:O	4:8:23:GLY:O	2.06	0.74
1:A:831:TRP:CH2	2:B:50:THR:HG22	2.08	0.74
1:G:796:GLY:CA	3:I:35:ARG:HD3	2.13	0.74
1:G:818:TYR:CZ	2:H:127:ARG:NH1	2.56	0.74
1:J:272:MLY:HH13	1:J:435:GLU:OE1	1.87	0.74
1:M:538:GLU:HA	4:Z:349:LEU:HD12	0.75	0.74
1:M:640:LYS:O	4:Z:23:GLY:O	2.06	0.74
1:M:799:MET:SD	3:O:32:ASP:OD2	2.45	0.74
1:P:709:LYS:CA	1:P:710:GLY:N	2.49	0.74
1:A:350:ALA:O	1:A:354:LEU:HB2	1.87	0.74
1:A:538:GLU:O	4:8:349:LEU:HG	1.86	0.74
1:A:791:GLN:NE2	3:C:115:GLY:CA	2.39	0.74
1:D:409:GLY:HA3	4:9:333:PRO:N	2.03	0.74
1:D:436:MLY:HE3	1:D:626:TYR:CE1	2.23	0.74
1:D:712:PRO:HD2	1:D:771:LEU:HD13	1.68	0.74
1:D:795:ARG:CG	3:F:118:MET:HE1	2.17	0.74
1:G:636:LYS:O	1:G:637:LYS:HB2	1.86	0.74
1:J:436:MLY:HE3	1:J:626:TYR:CE1	2.23	0.74
1:J:538:GLU:HA	4:W:349:LEU:HD12	0.74	0.74
1:J:797:PHE:CE1	3:L:146:ILE:CA	2.64	0.74
1:P:538:GLU:O	4:1:349:LEU:HG	1.86	0.74
1:P:541:MET:O	4:1:143:TYR:CZ	2.40	0.74
1:P:723:ARG:CZ	1:P:779:ARG:HG3	2.17	0.74
4:1:205:GLU:HG2	4:Y:286:ASP:OD1	1.88	0.74
4:9:290:ARG:NH1	4:W:202:THR:CG2	2.49	0.74
2:B:121:LEU:CG	2:B:128:PHE:HA	2.14	0.74
3:C:4:LYS:N	3:C:5:ALA:O	2.16	0.74
1:D:556:ASP:HA	4:W:49:GLN:O	1.70	0.74
2:E:130:PRO:O	2:E:132:GLU:N	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:MLY:HD2	1:G:724:TYR:OH	1.88	0.74
1:G:92:ALA:O	1:G:714:ARG:N	2.21	0.74
1:J:795:ARG:HE	3:L:116:GLU:CD	1.88	0.74
1:M:529:PRO:C	4:Z:354:GLN:CB	2.48	0.74
1:P:732:ILE:N	1:P:733:PRO:CD	2.51	0.74
1:P:735:GLY:CA	1:P:743:ALA:HA	2.18	0.74
4:2:287:ILE:HG13	4:4:202:THR:CA	2.16	0.74
4:4:288:ASP:CB	4:6:203:THR:CG2	2.66	0.74
4:W:253:GLU:HA	4:W:256:ARG:HG3	1.69	0.74
4:Y:253:GLU:HA	4:Y:256:ARG:HG3	1.69	0.74
1:A:149:GLN:CG	1:A:719:ASP:N	2.39	0.74
1:A:815:CYS:SG	2:B:92:ASP:CB	2.75	0.74
1:D:506:GLU:HG2	1:D:764:MLY:HE2	1.70	0.74
1:G:640:LYS:O	1:G:645:SER:OG	2.06	0.74
1:G:834:LEU:HD21	2:H:34:ILE:HG12	1.69	0.74
1:J:721:LYS:CA	1:J:736:GLN:OE1	2.33	0.74
1:M:486:MLY:HH13	1:M:527:GLU:OE1	1.87	0.74
1:M:636:LYS:O	1:M:637:LYS:HB2	1.86	0.74
4:2:253:GLU:HA	4:2:256:ARG:HG3	1.69	0.74
4:3:322:PRO:HB2	4:5:244:ASP:HB3	1.70	0.74
1:A:732:ILE:N	1:A:733:PRO:CD	2.51	0.74
1:A:799:MET:HE1	3:C:32:ASP:HB3	1.69	0.74
1:D:272:MLY:HH13	1:D:435:GLU:OE1	1.87	0.74
1:D:538:GLU:HA	4:9:349:LEU:HD12	0.74	0.74
1:G:534:SER:O	4:V:351:THR:N	2.20	0.74
1:G:795:ARG:CB	3:I:35:ARG:NH1	2.49	0.74
1:G:795:ARG:HG3	3:I:116:GLU:OE2	1.88	0.74
1:J:409:GLY:HA3	4:W:333:PRO:N	2.03	0.74
1:J:836:PHE:CE2	2:K:160:GLY:N	2.56	0.74
2:K:130:PRO:O	2:K:132:GLU:N	2.21	0.74
1:M:800:ARG:HB3	3:O:149:VAL:HG22	1.67	0.74
2:N:130:PRO:O	2:N:132:GLU:N	2.21	0.74
1:P:538:GLU:CD	4:1:355:MET:HE3	2.07	0.74
4:1:253:GLU:HA	4:1:256:ARG:HG3	1.70	0.74
4:7:288:ASP:H	4:9:203:THR:HG22	1.52	0.74
4:W:324:THR:HG23	4:Y:247:VAL:HG22	1.70	0.74
1:A:21:GLU:O	1:A:25:ILE:HG13	1.88	0.73
1:D:640:LYS:O	4:9:23:GLY:O	2.06	0.73
1:D:721:LYS:CB	1:D:736:GLN:CD	2.56	0.73
2:E:163:ALA:C	2:K:22:THR:H	1.90	0.73
1:G:530:MET:CG	4:V:354:GLN:CB	2.30	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:640:LYS:O	4:V:23:GLY:O	2.06	0.73
1:M:272:MLY:HH13	1:M:435:GLU:OE1	1.88	0.73
1:M:797:PHE:CG	3:O:146:ILE:HG23	2.22	0.73
1:P:272:MLY:HH13	1:P:435:GLU:OE1	1.87	0.73
1:P:410:ASN:OD1	4:1:335:ARG:N	2.21	0.73
1:P:530:MET:HE1	4:1:355:MET:SD	2.27	0.73
3:R:4:LYS:N	3:R:5:ALA:O	2.16	0.73
1:A:640:LYS:O	1:A:645:SER:OG	2.06	0.73
1:D:557:GLU:N	4:W:48:GLY:HA2	1.90	0.73
1:G:310:TYR:CE2	1:G:320:ILE:HD11	2.22	0.73
1:G:735:GLY:CA	1:G:743:ALA:HA	2.17	0.73
1:G:754:ASP:CB	1:G:776:GLU:OE1	2.36	0.73
1:G:754:ASP:O	1:G:776:GLU:OE1	2.05	0.73
1:J:410:ASN:OD1	4:W:335:ARG:N	2.21	0.73
1:J:802:GLU:O	1:J:806:MET:HG3	1.88	0.73
1:M:436:MLY:HE3	1:M:626:TYR:CE1	2.23	0.73
1:M:538:GLU:O	4:Z:349:LEU:HG	1.86	0.73
1:P:214:MET:HA	1:P:340:ILE:HD11	1.70	0.73
1:P:409:GLY:HA3	4:1:333:PRO:N	2.03	0.73
1:A:28:GLN:HE22	1:A:723:ARG:NH2	1.81	0.73
1:A:768:MLY:HB3	1:A:771:LEU:HB2	0.77	0.73
1:D:410:ASN:OD1	4:9:335:ARG:N	2.22	0.73
3:F:24:LYS:CA	3:F:63:ILE:O	2.36	0.73
1:G:410:ASN:OD1	4:V:335:ARG:N	2.21	0.73
1:G:721:LYS:CB	1:G:736:GLN:CD	2.56	0.73
1:G:817:GLN:HG2	2:H:127:ARG:HB3	1.69	0.73
1:J:218:LEU:HB2	1:J:221:GLN:CG	2.09	0.73
1:J:795:ARG:HD2	3:L:43:ASN:N	2.02	0.73
1:P:436:MLY:HE3	1:P:626:TYR:CE1	2.23	0.73
2:Q:150:TYR:C	2:Q:151:LYS:CG	2.48	0.73
3:R:24:LYS:CA	3:R:63:ILE:O	2.37	0.73
4:9:253:GLU:HA	4:9:256:ARG:HG3	1.69	0.73
1:A:272:MLY:HH13	1:A:435:GLU:OE1	1.88	0.73
1:A:310:TYR:CE2	1:A:320:ILE:HD11	2.22	0.73
1:A:536:LEU:HD13	1:A:550:PHE:CZ	2.24	0.73
1:A:836:PHE:CE1	2:B:159:HIS:CA	2.71	0.73
2:B:121:LEU:CG	2:B:128:PHE:CA	2.48	0.73
3:C:24:LYS:CA	3:C:63:ILE:O	2.36	0.73
1:D:708:ARG:CA	1:D:710:GLY:N	2.51	0.73
1:D:799:MET:SD	3:F:32:ASP:CG	2.67	0.73
1:D:818:TYR:CB	2:E:90:GLY:N	2.44	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:21:GLU:O	1:G:25:ILE:HG13	1.89	0.73
1:G:190:MLY:HE3	1:G:230:GLU:OE2	1.89	0.73
1:G:487:LEU:O	1:G:490:PHE:HB3	1.88	0.73
1:G:536:LEU:HD13	1:G:550:PHE:CZ	2.24	0.73
1:G:795:ARG:C	3:I:35:ARG:NH2	2.41	0.73
1:J:190:MLY:HE3	1:J:230:GLU:OE2	1.89	0.73
1:J:214:MET:HA	1:J:340:ILE:HD11	1.70	0.73
1:J:215:GLN:NE2	1:J:336:SER:O	2.21	0.73
1:M:441:MET:O	1:M:445:ILE:HG13	1.88	0.73
1:M:534:SER:CA	4:Z:351:THR:HA	2.18	0.73
1:M:735:GLY:C	1:M:743:ALA:HB1	1.84	0.73
1:P:786:ILE:C	1:P:788:THR:N	2.42	0.73
1:A:505:MLY:CB	1:A:761:GLY:HA2	2.17	0.73
1:A:505:MLY:HH23	1:A:762:HIS:O	1.82	0.73
1:D:131:TRP:C	1:D:132:LEU:HD12	2.09	0.73
1:D:190:MLY:HE3	1:D:230:GLU:OE2	1.89	0.73
1:D:534:SER:CA	4:9:351:THR:HA	2.18	0.73
1:D:721:LYS:CA	1:D:736:GLN:OE1	2.33	0.73
1:G:529:PRO:C	4:V:354:GLN:CB	2.50	0.73
2:H:130:PRO:O	2:H:132:GLU:N	2.21	0.73
1:M:640:LYS:O	1:M:645:SER:OG	2.06	0.73
1:M:723:ARG:CD	1:M:779:ARG:NE	2.35	0.73
3:O:24:LYS:CA	3:O:63:ILE:O	2.36	0.73
1:P:84:MLY:CH1	1:P:776:GLU:OE1	2.37	0.73
1:P:789:ALA:CA	3:R:81:GLN:NE2	2.50	0.73
1:P:802:GLU:O	1:P:806:MET:HG3	1.88	0.73
1:A:237:THR:HG22	1:A:239:ARG:H	1.53	0.73
1:A:499:GLU:CD	1:A:766:PHE:CE2	2.62	0.73
1:D:530:MET:CE	4:9:355:MET:SD	2.76	0.73
1:D:838:ILE:HD12	2:E:54:MET:HE3	1.70	0.73
2:E:114:LYS:HA	2:E:146:GLY:C	2.03	0.73
1:J:486:MLY:HH13	1:J:527:GLU:OE1	1.88	0.73
1:J:829:TRP:CZ3	2:K:84:PHE:CE1	2.76	0.73
1:M:487:LEU:O	1:M:490:PHE:HB3	1.88	0.73
1:P:21:GLU:O	1:P:25:ILE:HG13	1.88	0.73
1:P:782:MLY:HH21	3:R:80:ASP:HB2	0.77	0.73
1:P:800:ARG:HH22	3:R:40:ASN:ND2	1.85	0.73
2:Q:130:PRO:O	2:Q:132:GLU:N	2.21	0.73
1:A:486:MLY:HH13	1:A:527:GLU:OE1	1.88	0.73
1:D:218:LEU:HB2	1:D:221:GLN:CG	2.09	0.73
1:D:732:ILE:N	1:D:733:PRO:CD	2.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:CG	3:F:35:ARG:HH12	2.01	0.73
1:G:131:TRP:C	1:G:132:LEU:HD12	2.09	0.73
1:G:538:GLU:HA	4:V:349:LEU:HD12	0.74	0.73
1:J:487:LEU:O	1:J:490:PHE:HB3	1.89	0.73
1:J:788:THR:O	3:L:42:THR:CG2	2.27	0.73
1:J:789:ALA:HB1	3:L:81:GLN:CG	2.17	0.73
1:M:190:MLY:HE3	1:M:230:GLU:OE2	1.89	0.73
1:M:237:THR:HG22	1:M:239:ARG:H	1.54	0.73
1:M:530:MET:CE	4:Z:355:MET:SD	2.77	0.73
1:M:537:GLU:HG3	4:Z:350:SER:O	1.78	0.73
1:M:721:LYS:CB	1:M:736:GLN:CD	2.56	0.73
1:P:190:MLY:HE3	1:P:230:GLU:OE2	1.89	0.73
1:P:797:PHE:CD2	3:R:146:ILE:HG23	2.24	0.73
1:A:190:MLY:HE3	1:A:230:GLU:OE2	1.89	0.73
1:A:538:GLU:HA	4:8:349:LEU:HD12	0.74	0.73
1:A:792:ALA:HB2	3:C:42:THR:HG23	1.64	0.73
2:B:130:PRO:O	2:B:132:GLU:N	2.21	0.73
1:D:486:MLY:HH13	1:D:527:GLU:OE1	1.88	0.73
1:G:93:MET:HA	1:G:714:ARG:H	1.53	0.73
1:G:557:GLU:HA	4:X:48:GLY:CA	2.18	0.73
1:M:215:GLN:NE2	1:M:336:SER:O	2.20	0.73
1:M:791:GLN:CD	3:O:116:GLU:HG3	2.09	0.73
1:M:802:GLU:O	1:M:806:MET:HG3	1.88	0.73
1:P:618:THR:O	1:P:622:LEU:HD13	1.89	0.73
1:P:721:LYS:CB	1:P:736:GLN:CD	2.56	0.73
4:7:253:GLU:HA	4:7:256:ARG:HG3	1.69	0.73
1:A:487:LEU:O	1:A:490:PHE:HB3	1.89	0.73
1:D:800:ARG:C	3:F:149:VAL:HG21	2.08	0.73
1:D:802:GLU:O	1:D:806:MET:HG3	1.89	0.73
1:G:754:ASP:CA	1:G:776:GLU:CD	2.56	0.73
1:G:817:GLN:HB3	2:H:127:ARG:HD3	1.70	0.73
1:J:84:MLY:CH1	1:J:720:PHE:HD1	1.96	0.73
1:J:519:LEU:HD12	1:J:519:LEU:N	2.04	0.73
1:M:735:GLY:CA	1:M:743:ALA:HA	2.18	0.73
1:P:536:LEU:HD13	1:P:550:PHE:CZ	2.24	0.73
1:A:131:TRP:C	1:A:132:LEU:HD12	2.09	0.73
1:A:214:MET:HA	1:A:340:ILE:HD11	1.70	0.73
1:A:530:MET:CE	4:8:355:MET:SD	2.76	0.73
1:A:534:SER:CA	4:8:351:THR:HA	2.18	0.73
1:A:791:GLN:OE1	3:C:116:GLU:CG	2.31	0.73
1:A:802:GLU:O	1:A:806:MET:HG3	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:ARG:CD	3:F:35:ARG:HH12	2.01	0.73
1:G:441:MET:O	1:G:445:ILE:HG13	1.88	0.73
1:J:217:THR:C	1:J:221:GLN:HE21	1.92	0.73
1:J:732:ILE:N	1:J:733:PRO:CD	2.51	0.73
2:K:114:LYS:HA	2:K:146:GLY:C	2.03	0.73
1:M:21:GLU:O	1:M:25:ILE:HG13	1.89	0.73
1:M:295:MLY:HG3	1:M:332:MET:CE	2.19	0.73
1:P:131:TRP:C	1:P:132:LEU:HD12	2.09	0.73
1:P:486:MLY:HH13	1:P:527:GLU:OE1	1.88	0.73
1:A:36:SER:O	1:A:52:ILE:HG12	1.89	0.72
1:D:36:SER:O	1:D:52:ILE:HG12	1.89	0.72
1:D:536:LEU:HD13	1:D:550:PHE:CZ	2.23	0.72
1:D:823:PHE:CD1	2:E:160:GLY:CA	2.71	0.72
1:G:214:MET:HA	1:G:340:ILE:HD11	1.70	0.72
1:G:290:GLN:C	1:G:331:LEU:HD12	2.09	0.72
1:J:733:PRO:C	1:J:737:PHE:HD1	1.88	0.72
1:P:800:ARG:HD2	3:R:149:VAL:C	2.08	0.72
1:P:820:VAL:CG1	2:Q:136:MET:CE	2.67	0.72
4:4:253:GLU:HA	4:4:256:ARG:HG3	1.69	0.72
4:6:253:GLU:HA	4:6:256:ARG:HG3	1.69	0.72
1:A:295:MLY:HG3	1:A:332:MET:CE	2.19	0.72
1:A:542:PHE:CD2	4:8:143:TYR:CE1	2.77	0.72
1:A:798:LEU:CG	3:C:126:LEU:HD11	2.19	0.72
1:D:237:THR:HG22	1:D:239:ARG:H	1.54	0.72
1:D:481:ASN:HD22	1:D:481:ASN:N	1.82	0.72
1:D:538:GLU:O	4:9:349:LEU:HG	1.87	0.72
1:G:237:THR:HG22	1:G:239:ARG:H	1.54	0.72
1:J:536:LEU:HD13	1:J:550:PHE:CZ	2.24	0.72
1:M:409:GLY:HA3	4:Z:333:PRO:N	2.03	0.72
1:M:618:THR:O	1:M:622:LEU:HD13	1.89	0.72
1:M:707:CYS:C	1:M:710:GLY:N	2.42	0.72
1:P:534:SER:CA	4:1:351:THR:HA	2.19	0.72
4:2:203:THR:CG2	4:Z:287:ILE:CB	2.67	0.72
4:2:324:THR:OG1	4:4:244:ASP:N	2.17	0.72
1:A:290:GLN:C	1:A:331:LEU:HD12	2.09	0.72
1:A:553:MLY:NZ	4:V:45:VAL:HA	1.84	0.72
1:A:795:ARG:CD	3:C:43:ASN:CG	2.58	0.72
1:D:21:GLU:O	1:D:25:ILE:HG13	1.89	0.72
1:D:441:MET:O	1:D:445:ILE:HG13	1.88	0.72
1:D:618:THR:O	1:D:622:LEU:HD13	1.89	0.72
1:J:542:PHE:CD2	4:W:143:TYR:CE1	2.77	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:117:LEU:HD12	2:K:147:ASN:CA	2.19	0.72
3:L:24:LYS:CA	3:L:63:ILE:O	2.37	0.72
1:M:542:PHE:CD2	4:Z:143:TYR:CE1	2.77	0.72
1:M:762:HIS:CD2	1:M:762:HIS:H	2.07	0.72
1:M:819:ASN:OD1	2:N:92:ASP:CA	2.37	0.72
1:M:829:TRP:CZ3	2:N:84:PHE:CE1	2.76	0.72
1:P:519:LEU:N	1:P:519:LEU:HD12	2.04	0.72
1:P:723:ARG:CZ	1:P:779:ARG:CB	2.65	0.72
4:2:63:GLY:N	4:Z:288:ASP:OD2	2.22	0.72
1:A:436:MLY:HE3	1:A:626:TYR:CE1	2.22	0.72
1:D:217:THR:C	1:D:221:GLN:HE21	1.92	0.72
1:D:487:LEU:O	1:D:490:PHE:HB3	1.88	0.72
1:D:542:PHE:CD2	4:9:143:TYR:CE1	2.77	0.72
1:G:272:MLY:HH13	1:G:435:GLU:OE1	1.88	0.72
1:G:754:ASP:HB3	1:G:757:GLN:HG2	1.72	0.72
1:J:534:SER:CA	4:W:351:THR:HA	2.19	0.72
1:J:640:LYS:O	4:W:23:GLY:O	2.06	0.72
1:J:643:GLY:N	4:W:24:ASP:CA	2.46	0.72
1:M:410:ASN:OD1	4:Z:335:ARG:N	2.21	0.72
2:N:144:VAL:CB	2:N:153:ILE:HD11	2.19	0.72
1:P:237:THR:HG22	1:P:239:ARG:H	1.54	0.72
4:3:3:ASP:HA	4:3:6:THR:CB	2.18	0.72
4:8:290:ARG:HH22	4:V:202:THR:HG23	1.50	0.72
1:A:176:LEU:N	1:A:176:LEU:HD12	2.05	0.72
1:A:486:MLY:HH22	1:A:527:GLU:OE2	1.90	0.72
1:A:636:LYS:O	1:A:637:LYS:HB2	1.86	0.72
1:A:733:PRO:C	1:A:737:PHE:CD1	2.62	0.72
2:E:117:LEU:HD12	2:E:147:ASN:CA	2.19	0.72
1:G:510:TRP:CZ2	1:G:768:MLY:HH11	2.25	0.72
1:J:21:GLU:O	1:J:25:ILE:HG13	1.88	0.72
1:J:817:GLN:HG2	2:K:127:ARG:CG	2.20	0.72
1:M:36:SER:O	1:M:52:ILE:HG12	1.89	0.72
1:M:709:LYS:C	1:M:710:GLY:N	2.42	0.72
1:P:217:THR:C	1:P:221:GLN:HE21	1.93	0.72
1:P:218:LEU:HB2	1:P:221:GLN:CG	2.09	0.72
1:A:217:THR:C	1:A:221:GLN:HE21	1.92	0.72
1:A:441:MET:O	1:A:445:ILE:HG13	1.88	0.72
1:A:721:LYS:CB	1:A:736:GLN:CD	2.56	0.72
1:A:834:LEU:HD22	2:B:54:MET:HE3	1.68	0.72
1:D:214:MET:HA	1:D:340:ILE:HD11	1.70	0.72
1:D:292:MET:HE3	1:D:309:PRO:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:725:ARG:O	1:D:782:MLY:HH22	1.89	0.72
1:D:819:ASN:CA	2:E:90:GLY:O	2.37	0.72
1:G:295:MLY:HG3	1:G:332:MET:CE	2.20	0.72
1:G:755:HIS:CB	1:G:779:ARG:NH2	2.53	0.72
1:G:802:GLU:O	1:G:806:MET:HG3	1.89	0.72
1:G:819:ASN:CG	2:H:90:GLY:O	2.26	0.72
1:J:36:SER:O	1:J:52:ILE:HG12	1.89	0.72
1:J:530:MET:CE	4:W:355:MET:SD	2.77	0.72
1:J:831:TRP:CZ2	2:K:47:LEU:HD22	2.23	0.72
1:J:832:MET:SD	2:K:84:PHE:HE2	2.12	0.72
1:P:486:MLY:HH22	1:P:527:GLU:OE2	1.90	0.72
1:P:640:LYS:O	4:1:23:GLY:O	2.06	0.72
1:P:722:GLN:CB	3:R:85:GLU:HB2	2.19	0.72
1:P:836:PHE:CE2	2:Q:160:GLY:HA3	2.24	0.72
1:A:505:MLY:CA	1:A:762:HIS:CD2	2.73	0.72
1:A:534:SER:C	4:8:351:THR:CA	2.47	0.72
1:D:295:MLY:HG3	1:D:332:MET:CE	2.20	0.72
1:D:795:ARG:HH21	3:F:116:GLU:CB	2.00	0.72
2:E:136:MET:O	2:E:140:PHE:HB2	1.90	0.72
1:G:176:LEU:HD12	1:G:176:LEU:N	2.05	0.72
1:G:813:ILE:HG21	2:H:128:PHE:CE1	2.24	0.72
1:G:829:TRP:HZ2	2:H:83:MET:HE1	1.52	0.72
1:G:830:PRO:CG	2:H:67:MET:HE2	2.19	0.72
2:H:144:VAL:CB	2:H:153:ILE:HD11	2.19	0.72
1:J:295:MLY:HG3	1:J:332:MET:CE	2.19	0.72
1:M:131:TRP:C	1:M:132:LEU:HD12	2.09	0.72
1:M:176:LEU:HD12	1:M:176:LEU:N	2.05	0.72
1:M:214:MET:HA	1:M:340:ILE:HD11	1.70	0.72
1:M:506:GLU:HB3	1:M:761:GLY:HA3	1.72	0.72
1:M:536:LEU:HD13	1:M:550:PHE:CZ	2.24	0.72
1:M:789:ALA:HB1	3:O:81:GLN:CG	2.19	0.72
1:P:36:SER:O	1:P:52:ILE:HG12	1.89	0.72
1:P:84:MLY:CH1	1:P:776:GLU:OE2	2.38	0.72
1:P:530:MET:CE	4:1:355:MET:SD	2.77	0.72
1:P:643:GLY:N	4:1:24:ASP:CA	2.46	0.72
4:9:290:ARG:HH22	4:W:202:THR:HG23	1.50	0.72
1:A:754:ASP:HB3	1:A:757:GLN:HG2	1.72	0.72
1:A:793:ARG:HH21	3:C:147:MET:CE	2.02	0.72
1:A:831:TRP:CH2	2:B:34:ILE:HG23	2.23	0.72
1:D:176:LEU:HD12	1:D:176:LEU:N	2.05	0.72
1:D:486:MLY:HH22	1:D:527:GLU:OE2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:754:ASP:HB3	1:D:757:GLN:HG2	1.72	0.72
1:D:813:ILE:CD1	2:E:128:PHE:CE1	2.68	0.72
2:E:144:VAL:CB	2:E:153:ILE:HD11	2.19	0.72
1:G:546:THR:HG22	1:G:548:THR:N	2.05	0.72
1:G:829:TRP:CE3	2:H:87:LYS:NZ	2.56	0.72
1:J:441:MET:O	1:J:445:ILE:HG13	1.88	0.72
1:J:486:MLY:HH22	1:J:527:GLU:OE2	1.90	0.72
1:J:618:THR:O	1:J:622:LEU:HD13	1.89	0.72
1:M:733:PRO:C	1:M:737:PHE:CD1	2.62	0.72
1:M:797:PHE:CZ	3:O:146:ILE:CB	2.73	0.72
1:M:817:GLN:HG2	2:N:127:ARG:CD	2.20	0.72
1:P:290:GLN:C	1:P:331:LEU:HD12	2.09	0.72
1:P:798:LEU:HD11	3:R:126:LEU:CD2	2.20	0.72
4:2:3:ASP:HA	4:2:6:THR:CB	2.18	0.72
4:V:286:ASP:OD1	4:X:203:THR:N	2.23	0.72
4:Y:3:ASP:HA	4:Y:6:THR:CB	2.17	0.72
2:B:144:VAL:CB	2:B:153:ILE:HD11	2.19	0.72
1:D:290:GLN:C	1:D:331:LEU:HD12	2.09	0.72
1:G:218:LEU:HB2	1:G:221:GLN:CG	2.09	0.72
1:G:409:GLY:HA3	4:V:333:PRO:N	2.03	0.72
1:J:762:HIS:H	1:J:762:HIS:CD2	2.07	0.72
2:K:144:VAL:CB	2:K:153:ILE:HD11	2.19	0.72
1:P:295:MLY:HG3	1:P:332:MET:CE	2.19	0.72
2:Q:144:VAL:CB	2:Q:153:ILE:HD11	2.19	0.72
1:A:557:GLU:N	4:V:48:GLY:HA3	1.90	0.72
1:G:486:MLY:HH22	1:G:527:GLU:OE2	1.90	0.72
1:G:798:LEU:HG	3:I:122:GLU:HB3	1.70	0.72
2:H:136:MET:O	2:H:140:PHE:HB2	1.90	0.72
3:I:24:LYS:CA	3:I:63:ILE:O	2.36	0.72
1:M:72:VAL:HG13	1:M:76:GLN:CB	2.19	0.72
1:M:486:MLY:HH22	1:M:527:GLU:OE2	1.90	0.72
1:M:737:PHE:CD2	3:O:84:PHE:HE2	2.02	0.72
2:N:136:MET:O	2:N:140:PHE:HB2	1.90	0.72
1:P:14:ALA:HB3	1:P:15:PRO:HD3	1.72	0.72
1:P:762:HIS:CD2	1:P:762:HIS:H	2.08	0.72
1:P:803:TYR:CE1	1:P:807:VAL:HG21	2.25	0.72
2:Q:136:MET:O	2:Q:140:PHE:HB2	1.90	0.72
4:1:3:ASP:HA	4:1:6:THR:CB	2.18	0.72
4:1:113:LYS:HZ1	4:2:252:ASN:HB2	1.55	0.72
4:5:3:ASP:HA	4:5:6:THR:CB	2.18	0.72
1:A:410:ASN:OD1	4:8:335:ARG:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:GLU:HG3	4:8:350:SER:O	1.79	0.71
1:A:800:ARG:HH22	3:C:40:ASN:CG	1.72	0.71
1:D:166:MET:HE1	1:D:254:PHE:HB2	1.72	0.71
1:G:217:THR:C	1:G:221:GLN:HE21	1.92	0.71
1:G:542:PHE:CD2	4:V:143:TYR:CE1	2.78	0.71
1:J:14:ALA:HB3	1:J:15:PRO:HD3	1.72	0.71
1:J:769:ALA:HB3	1:J:770:GLY:CA	2.20	0.71
2:K:136:MET:O	2:K:140:PHE:HB2	1.90	0.71
1:M:166:MET:HE1	1:M:254:PHE:HB2	1.72	0.71
1:M:290:GLN:C	1:M:331:LEU:HD12	2.09	0.71
1:M:544:LYS:HZ1	4:2:45:VAL:HG21	1.53	0.71
1:M:754:ASP:HB3	1:M:757:GLN:HG2	1.71	0.71
1:A:546:THR:HG22	1:A:548:THR:N	2.05	0.71
1:D:217:THR:O	1:D:220:ASP:HB2	1.90	0.71
1:G:86:ASP:OD2	1:G:87:MLY:HH13	1.91	0.71
1:M:786:ILE:HG22	1:M:787:ILE:CA	2.18	0.71
1:M:797:PHE:HE2	3:O:146:ILE:HD12	1.48	0.71
1:P:441:MET:O	1:P:445:ILE:HG13	1.88	0.71
1:P:818:TYR:CE1	2:Q:127:ARG:NH1	2.57	0.71
1:P:819:ASN:OD1	2:Q:91:ALA:C	2.28	0.71
1:A:618:THR:O	1:A:622:LEU:HD13	1.89	0.71
1:D:14:ALA:HB3	1:D:15:PRO:HD3	1.72	0.71
1:G:519:LEU:HD12	1:G:519:LEU:N	2.05	0.71
1:G:534:SER:CA	4:V:351:THR:HA	2.19	0.71
1:G:819:ASN:N	2:H:90:GLY:O	2.22	0.71
2:H:117:LEU:HD12	2:H:147:ASN:CA	2.20	0.71
1:J:237:THR:HG22	1:J:239:ARG:H	1.54	0.71
1:M:519:LEU:N	1:M:519:LEU:HD12	2.04	0.71
1:P:789:ALA:HB2	3:R:81:GLN:CD	2.09	0.71
4:2:287:ILE:HG21	4:4:202:THR:OG1	1.89	0.71
1:A:56:GLU:CB	1:A:59:MLY:HB3	2.20	0.71
1:A:217:THR:O	1:A:220:ASP:HB2	1.90	0.71
1:A:813:ILE:CG1	2:B:128:PHE:HE1	2.04	0.71
1:D:550:PHE:HA	4:W:46:GLY:HA3	1.66	0.71
1:G:530:MET:CE	4:V:355:MET:SD	2.78	0.71
1:M:217:THR:C	1:M:221:GLN:HE21	1.92	0.71
1:P:176:LEU:HD12	1:P:176:LEU:N	2.05	0.71
1:P:245:ARG:HD3	1:P:271:GLU:OE1	1.90	0.71
1:P:788:THR:O	3:R:42:THR:CG2	2.38	0.71
4:2:288:ASP:H	4:4:203:THR:HG22	1.54	0.71
4:W:3:ASP:HA	4:W:6:THR:CB	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:287:ILE:CG1	4:Z:201:VAL:HG22	0.89	0.71
1:A:519:LEU:HD12	1:A:519:LEU:N	2.04	0.71
1:D:519:LEU:HD12	1:D:519:LEU:N	2.04	0.71
1:D:557:GLU:N	4:W:48:GLY:HA3	1.90	0.71
1:D:713:SER:HB2	1:D:775:LEU:HD21	1.72	0.71
1:D:831:TRP:NE1	2:E:51:PHE:HZ	1.86	0.71
1:G:217:THR:O	1:G:220:ASP:HB2	1.91	0.71
2:H:121:LEU:CG	2:H:128:PHE:HA	2.14	0.71
1:J:131:TRP:C	1:J:132:LEU:HD12	2.09	0.71
1:J:769:ALA:CB	1:J:770:GLY:CA	2.68	0.71
1:J:797:PHE:CD1	3:L:146:ILE:HG22	2.22	0.71
1:J:817:GLN:CG	2:K:127:ARG:CB	2.61	0.71
1:P:487:LEU:O	1:P:490:PHE:HB3	1.89	0.71
1:P:836:PHE:CE2	2:Q:160:GLY:CA	2.73	0.71
1:D:274:ARG:NH2	1:D:282:GLU:OE1	2.24	0.71
1:G:274:ARG:NH2	1:G:282:GLU:OE1	2.24	0.71
1:G:728:ASN:OD1	3:I:114:LEU:HD23	1.89	0.71
1:J:245:ARG:HD3	1:J:271:GLU:OE1	1.90	0.71
1:J:721:LYS:CB	1:J:736:GLN:CD	2.56	0.71
1:P:84:MLY:HH13	1:P:776:GLU:OE1	1.89	0.71
1:P:640:LYS:O	1:P:645:SER:OG	2.06	0.71
1:P:733:PRO:C	1:P:737:PHE:CD1	2.62	0.71
1:P:817:GLN:HB3	2:Q:127:ARG:NH1	2.05	0.71
4:2:63:GLY:H	4:Z:288:ASP:CB	2.03	0.71
1:A:206:LYS:HD3	1:A:217:THR:HG23	0.71	0.71
1:A:643:GLY:N	4:8:24:ASP:CA	2.46	0.71
1:A:837:MLY:CH2	2:H:20:ASP:CA	2.68	0.71
1:G:618:THR:O	1:G:622:LEU:HD13	1.90	0.71
1:J:176:LEU:HD12	1:J:176:LEU:N	2.05	0.71
1:J:813:ILE:CG2	2:K:128:PHE:HE1	2.02	0.71
3:O:4:LYS:N	3:O:5:ALA:O	2.16	0.71
4:8:3:ASP:HA	4:8:6:THR:CB	2.18	0.71
2:B:136:MET:O	2:B:140:PHE:HB2	1.90	0.71
1:M:274:ARG:NH2	1:M:282:GLU:OE1	2.24	0.71
1:M:530:MET:HE2	4:Z:354:GLN:HG3	1.73	0.71
1:M:795:ARG:HH21	3:O:116:GLU:HG2	1.54	0.71
1:P:166:MET:HE1	1:P:254:PHE:HB2	1.72	0.71
1:P:542:PHE:CD2	4:1:143:TYR:CE1	2.77	0.71
4:1:113:LYS:HZ2	4:2:252:ASN:HB2	1.52	0.71
1:A:245:ARG:HD3	1:A:271:GLU:OE1	1.90	0.71
1:A:274:ARG:NH2	1:A:282:GLU:OE1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:641:LYS:HD2	4:9:348:SER:HA	1.73	0.71
1:G:754:ASP:OD2	1:G:776:GLU:HA	1.90	0.71
1:J:86:ASP:OD2	1:J:87:MLY:HH13	1.91	0.71
1:J:538:GLU:OE2	4:W:355:MET:HE3	1.86	0.71
1:P:217:THR:O	1:P:220:ASP:HB2	1.91	0.71
1:A:72:VAL:HG13	1:A:76:GLN:CB	2.19	0.71
1:D:795:ARG:CB	3:F:35:ARG:CZ	2.53	0.71
1:G:14:ALA:HB3	1:G:15:PRO:HD3	1.72	0.71
1:G:56:GLU:CB	1:G:59:MLY:HB3	2.19	0.71
1:G:72:VAL:HG13	1:G:76:GLN:CB	2.19	0.71
1:J:56:GLU:CB	1:J:59:MLY:HB3	2.19	0.71
1:J:290:GLN:C	1:J:331:LEU:HD12	2.09	0.71
1:J:733:PRO:C	1:J:737:PHE:CD1	2.62	0.71
1:M:709:LYS:C	1:M:710:GLY:HA2	2.10	0.71
1:M:817:GLN:OE1	2:N:127:ARG:HD2	1.90	0.71
1:M:831:TRP:CZ2	2:N:47:LEU:HD22	2.25	0.71
1:P:274:ARG:NH2	1:P:282:GLU:OE1	2.24	0.71
1:P:506:GLU:O	1:P:762:HIS:CE1	2.44	0.71
1:A:505:MLY:CD	1:A:762:HIS:CD2	2.70	0.70
1:D:245:ARG:HD3	1:D:271:GLU:OE1	1.90	0.70
1:G:579:PHE:HD2	1:G:592:ILE:HD11	1.56	0.70
1:G:795:ARG:NE	3:I:116:GLU:CG	2.54	0.70
1:J:274:ARG:NH2	1:J:282:GLU:OE1	2.24	0.70
1:M:56:GLU:CB	1:M:59:MLY:HB3	2.19	0.70
1:P:56:GLU:CB	1:P:59:MLY:HB3	2.19	0.70
1:P:783:LEU:HA	1:P:786:ILE:CG1	2.21	0.70
1:P:797:PHE:CD1	3:R:146:ILE:CG2	2.74	0.70
1:P:798:LEU:HD21	3:R:126:LEU:HD11	1.72	0.70
4:3:287:ILE:CG2	4:5:204:ALA:H	2.04	0.70
4:X:3:ASP:HA	4:X:6:THR:CB	2.18	0.70
1:A:218:LEU:HB2	1:A:221:GLN:CG	2.09	0.70
1:D:123:CYS:HB2	1:D:158:ILE:HD11	1.73	0.70
1:D:206:LYS:HD3	1:D:217:THR:HG23	0.71	0.70
1:D:507:GLY:O	1:D:762:HIS:CD2	2.44	0.70
1:G:36:SER:O	1:G:52:ILE:HG12	1.90	0.70
1:G:834:LEU:HD22	2:H:34:ILE:CD1	2.21	0.70
1:J:641:LYS:HD2	4:W:348:SER:HA	1.73	0.70
1:J:756:THR:HG23	1:J:776:GLU:OE1	1.88	0.70
1:M:213:LYS:HA	1:M:220:ASP:OD1	1.92	0.70
1:M:722:GLN:CD	3:O:86:ASP:HA	2.11	0.70
1:M:797:PHE:CE1	3:O:146:ILE:CB	2.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:754:ASP:HB3	1:P:757:GLN:HG2	1.72	0.70
4:2:64:ILE:CD1	4:Z:166:TYR:OH	2.35	0.70
4:9:3:ASP:HA	4:9:6:THR:CB	2.18	0.70
1:A:86:ASP:OD2	1:A:87:MLY:HH13	1.91	0.70
1:A:787:ILE:HG22	1:A:788:THR:N	2.07	0.70
1:J:217:THR:O	1:J:220:ASP:HB2	1.91	0.70
1:M:14:ALA:HB3	1:M:15:PRO:HD3	1.72	0.70
1:M:245:ARG:HD3	1:M:271:GLU:OE1	1.90	0.70
1:M:630:ALA:O	4:Z:25:ASP:HB2	1.91	0.70
1:M:722:GLN:HE22	3:O:89:GLU:HB2	1.55	0.70
2:Q:117:LEU:HD12	2:Q:147:ASN:CA	2.19	0.70
4:1:166:TYR:HE2	4:3:40:HIS:HB2	1.56	0.70
4:W:324:THR:HG23	4:Y:247:VAL:H	1.45	0.70
1:A:123:CYS:HB2	1:A:158:ILE:HD11	1.73	0.70
1:A:641:LYS:HD2	4:8:348:SER:HA	1.73	0.70
1:D:733:PRO:C	1:D:737:PHE:CD1	2.62	0.70
1:G:641:LYS:HD2	4:V:348:SER:HA	1.73	0.70
1:G:810:ARG:HG2	1:G:810:ARG:HH11	1.56	0.70
1:J:546:THR:HG22	1:J:548:THR:N	2.05	0.70
1:J:640:LYS:O	1:J:645:SER:OG	2.06	0.70
1:M:810:ARG:HG2	1:M:810:ARG:HH11	1.56	0.70
1:P:713:SER:HB2	1:P:772:LEU:CD2	2.15	0.70
1:P:793:ARG:HH11	3:R:40:ASN:ND2	1.88	0.70
4:1:1:ASP:HA	4:1:4:GLU:HB3	1.74	0.70
4:3:1:ASP:HA	4:3:4:GLU:HB3	1.74	0.70
4:4:3:ASP:HA	4:4:6:THR:CB	2.17	0.70
1:A:739:ASP:CB	1:A:742:LYS:HB3	2.12	0.70
1:A:798:LEU:CD1	3:C:126:LEU:CD2	2.56	0.70
1:D:86:ASP:OD2	1:D:87:MLY:HH13	1.91	0.70
1:D:813:ILE:HG21	2:E:128:PHE:CE1	2.25	0.70
1:D:836:PHE:CZ	2:E:160:GLY:N	2.59	0.70
1:G:762:HIS:CD2	1:G:762:HIS:H	2.07	0.70
1:G:792:ALA:CA	3:I:42:THR:HA	2.20	0.70
2:H:114:LYS:HA	2:H:146:GLY:C	2.02	0.70
3:L:4:LYS:N	3:L:5:ALA:O	2.16	0.70
1:M:86:ASP:OD2	1:M:87:MLY:HH13	1.91	0.70
1:M:206:LYS:HD3	1:M:217:THR:HG23	0.71	0.70
1:M:831:TRP:CZ3	2:N:34:ILE:HD13	2.26	0.70
1:P:722:GLN:HE21	3:R:85:GLU:N	1.90	0.70
4:8:1:ASP:HA	4:8:4:GLU:HB3	1.74	0.70
4:V:1:ASP:HA	4:V:4:GLU:HB3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:ALA:HB3	1:A:15:PRO:HD3	1.72	0.70
1:A:149:GLN:HG2	1:A:719:ASP:N	2.04	0.70
1:A:577:ALA:O	1:A:578:HIS:CG	2.44	0.70
3:C:25:ILE:O	3:C:63:ILE:HB	1.92	0.70
1:D:579:PHE:HD2	1:D:592:ILE:HD11	1.56	0.70
1:D:640:LYS:O	1:D:645:SER:OG	2.06	0.70
1:D:713:SER:HB3	1:D:775:LEU:HD22	1.73	0.70
1:D:834:LEU:CD2	2:E:54:MET:HE2	2.06	0.70
1:G:245:ARG:HD3	1:G:271:GLU:OE1	1.90	0.70
1:G:553:MLY:HH12	4:X:45:VAL:CG2	2.21	0.70
2:H:111:SER:OG	2:H:148:VAL:HG12	1.92	0.70
1:J:166:MET:HE1	1:J:254:PHE:HB2	1.72	0.70
3:L:48:LYS:HB3	3:L:52:ASN:HD21	1.57	0.70
1:M:123:CYS:HB2	1:M:158:ILE:HD11	1.73	0.70
1:M:217:THR:O	1:M:220:ASP:HB2	1.91	0.70
1:M:506:GLU:O	1:M:762:HIS:N	2.24	0.70
1:M:789:ALA:HB1	3:O:81:GLN:CD	2.12	0.70
1:P:787:ILE:HG22	1:P:788:THR:N	2.06	0.70
4:W:1:ASP:HA	4:W:4:GLU:HB3	1.74	0.70
4:Y:1:ASP:HA	4:Y:4:GLU:HB3	1.74	0.70
1:D:56:GLU:CB	1:D:59:MLY:HB3	2.19	0.70
1:G:834:LEU:HD13	2:H:51:PHE:CE1	2.26	0.70
1:J:28:GLN:HG2	1:J:723:ARG:CZ	2.11	0.70
1:M:797:PHE:CZ	3:O:146:ILE:CA	2.65	0.70
4:V:325:MET:CE	4:X:244:ASP:CB	2.70	0.70
1:A:579:PHE:HD2	1:A:592:ILE:HD11	1.57	0.70
1:A:630:ALA:O	4:8:25:ASP:HB2	1.92	0.70
1:A:823:PHE:CZ	2:B:156:VAL:HG12	2.27	0.70
1:D:782:MLY:C	1:D:783:LEU:HD12	2.22	0.70
1:G:754:ASP:CG	1:G:776:GLU:HA	2.11	0.70
2:H:150:TYR:C	2:H:151:LYS:CG	2.48	0.70
1:J:577:ALA:O	1:J:578:HIS:CG	2.45	0.70
1:M:410:ASN:CG	4:Z:334:GLU:CA	2.47	0.70
1:M:577:ALA:O	1:M:578:HIS:CG	2.45	0.70
1:M:796:GLY:HA2	3:O:35:ARG:CG	2.21	0.70
1:M:818:TYR:CD1	2:N:127:ARG:CZ	2.73	0.70
1:P:641:LYS:HD2	4:1:348:SER:HA	1.73	0.70
1:P:739:ASP:CB	1:P:742:LYS:HB3	2.12	0.70
2:Q:117:LEU:CB	2:Q:147:ASN:OD1	2.39	0.70
3:R:48:LYS:HB3	3:R:52:ASN:HD21	1.57	0.70
1:A:817:GLN:NE2	2:B:127:ARG:CB	1.85	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:VAL:HG13	1:D:76:GLN:CB	2.19	0.70
1:D:732:ILE:HD13	1:D:782:MLY:HH21	1.73	0.70
1:D:819:ASN:ND2	2:E:90:GLY:C	2.39	0.70
1:G:213:LYS:HA	1:G:220:ASP:OD1	1.92	0.70
1:J:754:ASP:HB3	1:J:757:GLN:HG2	1.71	0.70
1:J:782:MLY:C	1:J:783:LEU:HD12	2.22	0.70
1:M:295:MLY:HG3	1:M:332:MET:HE1	1.73	0.70
4:9:1:ASP:HA	4:9:4:GLU:HB3	1.74	0.70
4:X:1:ASP:HA	4:X:4:GLU:HB3	1.74	0.70
1:A:834:LEU:HD21	2:B:54:MET:HE1	0.70	0.70
1:D:577:ALA:O	1:D:578:HIS:CG	2.45	0.70
1:G:123:CYS:HB2	1:G:158:ILE:HD11	1.73	0.70
1:J:95:THR:HA	1:J:713:SER:CB	2.22	0.70
1:J:579:PHE:HD2	1:J:592:ILE:HD11	1.56	0.70
1:A:499:GLU:OE2	1:A:766:PHE:CE2	2.45	0.69
2:E:111:SER:OG	2:E:148:VAL:HG12	1.92	0.69
1:G:782:MLY:C	1:G:783:LEU:HD12	2.22	0.69
1:J:769:ALA:HB3	1:J:770:GLY:HA2	1.74	0.69
1:M:709:LYS:C	1:M:710:GLY:CA	2.60	0.69
1:P:123:CYS:HB2	1:P:158:ILE:HD11	1.73	0.69
1:P:722:GLN:CD	3:R:86:ASP:OD2	2.30	0.69
3:R:25:ILE:O	3:R:63:ILE:HB	1.92	0.69
4:7:290:ARG:HH22	4:9:202:THR:HG23	1.50	0.69
1:A:213:LYS:HA	1:A:220:ASP:OD1	1.92	0.69
1:A:215:GLN:CA	1:A:340:ILE:CG2	2.63	0.69
1:A:541:MET:CG	4:8:345:ILE:O	2.41	0.69
1:D:530:MET:HE2	4:9:354:GLN:HG3	1.74	0.69
1:D:724:TYR:HB3	1:D:782:MLY:NZ	2.07	0.69
1:J:769:ALA:CB	1:J:770:GLY:HA2	2.22	0.69
1:J:807:VAL:O	1:J:810:ARG:HB2	1.93	0.69
1:M:641:LYS:HD2	4:Z:348:SER:HA	1.72	0.69
2:N:111:SER:OG	2:N:148:VAL:HG12	1.92	0.69
1:P:821:ARG:HH22	2:Q:127:ARG:CG	1.87	0.69
4:3:287:ILE:HB	4:5:204:ALA:H	1.55	0.69
1:D:530:MET:HE3	4:9:354:GLN:HG2	1.71	0.69
1:D:546:THR:HG22	1:D:548:THR:N	2.05	0.69
1:D:762:HIS:CD2	1:D:762:HIS:H	2.08	0.69
1:D:813:ILE:CG2	2:E:128:PHE:HE1	1.98	0.69
3:F:48:LYS:HB3	3:F:52:ASN:HD21	1.57	0.69
1:G:206:LYS:HD3	1:G:217:THR:HG23	0.70	0.69
1:G:553:MLY:CD	4:X:45:VAL:HG12	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:556:ASP:OD2	4:X:47:MET:CE	2.39	0.69
1:G:577:ALA:O	1:G:578:HIS:CG	2.45	0.69
1:J:506:GLU:CG	1:J:760:PHE:O	2.41	0.69
1:J:739:ASP:CB	1:J:742:LYS:HB3	2.12	0.69
1:J:813:ILE:HG23	2:K:128:PHE:CZ	2.27	0.69
2:K:111:SER:OG	2:K:148:VAL:HG12	1.92	0.69
2:K:117:LEU:CB	2:K:147:ASN:OD1	2.39	0.69
1:M:630:ALA:O	4:Z:25:ASP:CB	2.41	0.69
1:M:725:ARG:NH2	3:O:84:PHE:HE1	1.89	0.69
1:P:86:ASP:OD2	1:P:87:MLY:HH13	1.91	0.69
1:P:630:ALA:O	4:1:25:ASP:CB	2.41	0.69
1:P:767:PHE:HB3	1:P:772:LEU:HD13	1.74	0.69
2:Q:111:SER:OG	2:Q:148:VAL:HG12	1.92	0.69
4:3:324:THR:HG21	4:5:243:PRO:C	2.10	0.69
4:7:3:ASP:HA	4:7:6:THR:CB	2.18	0.69
3:C:48:LYS:HB3	3:C:52:ASN:HD21	1.57	0.69
1:D:215:GLN:CA	1:D:340:ILE:CG2	2.62	0.69
3:I:25:ILE:O	3:I:63:ILE:HB	1.91	0.69
1:J:123:CYS:HB2	1:J:158:ILE:HD11	1.73	0.69
1:J:206:LYS:HD3	1:J:217:THR:HG23	0.71	0.69
1:J:756:THR:HG21	1:J:776:GLU:HA	1.67	0.69
1:J:795:ARG:C	3:L:35:ARG:NH2	2.46	0.69
1:J:819:ASN:OD1	2:K:91:ALA:C	2.29	0.69
3:L:25:ILE:O	3:L:63:ILE:HB	1.92	0.69
1:M:215:GLN:CA	1:M:340:ILE:CG2	2.63	0.69
4:X:287:ILE:CA	4:Z:201:VAL:CG2	2.57	0.69
1:A:550:PHE:HA	4:V:46:GLY:HA3	1.66	0.69
1:A:836:PHE:HE1	2:B:159:HIS:HB2	1.03	0.69
1:J:630:ALA:O	4:W:25:ASP:CB	2.41	0.69
1:J:630:ALA:O	4:W:25:ASP:HB2	1.91	0.69
1:J:642:LYS:HB3	4:W:21:PHE:O	1.92	0.69
1:M:836:PHE:CE2	2:N:160:GLY:HA3	2.27	0.69
3:O:25:ILE:O	3:O:63:ILE:HB	1.92	0.69
1:P:630:ALA:O	4:1:25:ASP:HB2	1.91	0.69
1:P:800:ARG:HH22	3:R:40:ASN:HD21	1.38	0.69
1:A:762:HIS:CD2	1:A:762:HIS:H	2.08	0.69
1:D:630:ALA:O	4:9:25:ASP:CB	2.41	0.69
1:D:727:LEU:HB2	1:D:782:MLY:CE	2.20	0.69
1:D:787:ILE:HG22	1:D:788:THR:N	2.07	0.69
1:G:541:MET:CG	4:V:345:ILE:O	2.41	0.69
1:G:829:TRP:CH2	2:H:87:LYS:HE2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:3:SER:O	3:I:4:LYS:CB	2.41	0.69
3:I:48:LYS:HB3	3:I:52:ASN:HD21	1.57	0.69
1:J:787:ILE:HG22	1:J:788:THR:N	2.07	0.69
1:J:795:ARG:HH21	3:L:116:GLU:CG	2.05	0.69
1:J:815:CYS:O	1:J:819:ASN:HB2	1.93	0.69
1:M:579:PHE:HD2	1:M:592:ILE:HD11	1.57	0.69
1:P:577:ALA:O	1:P:578:HIS:CG	2.45	0.69
1:P:782:MLY:C	1:P:783:LEU:HD12	2.22	0.69
1:P:820:VAL:CG1	2:Q:136:MET:HE1	2.21	0.69
4:V:3:ASP:HA	4:V:6:THR:CB	2.18	0.69
1:D:732:ILE:CG2	1:D:747:LEU:HD11	1.26	0.69
1:D:810:ARG:HG2	1:D:810:ARG:HH11	1.57	0.69
1:D:815:CYS:O	1:D:819:ASN:HB2	1.93	0.69
3:F:25:ILE:O	3:F:63:ILE:HB	1.92	0.69
1:J:72:VAL:HG13	1:J:76:GLN:CB	2.19	0.69
1:M:789:ALA:CB	3:O:81:GLN:CD	2.61	0.69
1:P:533:PHE:O	1:P:537:GLU:HG2	1.93	0.69
1:P:579:PHE:HD2	1:P:592:ILE:HD11	1.56	0.69
1:P:723:ARG:HH21	1:P:779:ARG:CA	1.93	0.69
1:P:723:ARG:HH12	1:P:783:LEU:HD11	1.57	0.69
4:7:1:ASP:HA	4:7:4:GLU:HB3	1.74	0.69
4:Z:1:ASP:HA	4:Z:4:GLU:HB3	1.74	0.69
1:A:782:MLY:C	1:A:783:LEU:HD12	2.22	0.69
1:A:810:ARG:HG2	1:A:810:ARG:HH11	1.57	0.69
1:D:533:PHE:O	1:D:537:GLU:HG2	1.93	0.69
1:D:727:LEU:HB3	1:D:782:MLY:CH1	2.11	0.69
1:D:795:ARG:HD2	3:F:35:ARG:HH12	1.57	0.69
1:G:84:MLY:CD	1:G:724:TYR:OH	2.40	0.69
1:G:93:MET:HE2	1:G:715:VAL:C	2.13	0.69
1:G:802:GLU:OE1	1:G:802:GLU:HA	1.93	0.69
1:G:804:ARG:NH2	3:I:149:VAL:HG23	2.08	0.69
1:J:538:GLU:CD	4:W:355:MET:HE1	2.13	0.69
1:J:799:MET:SD	3:L:32:ASP:CA	2.81	0.69
1:M:782:MLY:C	1:M:783:LEU:HD12	2.22	0.69
1:P:713:SER:OG	1:P:772:LEU:HD23	1.93	0.69
1:P:804:ARG:O	1:P:808:GLU:OE1	2.09	0.69
4:6:1:ASP:HA	4:6:4:GLU:HB3	1.74	0.69
4:6:3:ASP:HA	4:6:6:THR:CB	2.18	0.69
1:A:553:MLY:HG2	4:V:47:MET:N	2.07	0.69
1:A:630:ALA:O	4:8:25:ASP:CB	2.41	0.69
3:C:48:LYS:C	3:C:52:ASN:HD21	1.97	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:123:CYS:HB2	1:D:158:ILE:CD1	2.23	0.69
1:D:642:LYS:HB3	4:9:21:PHE:O	1.93	0.69
1:D:807:VAL:O	1:D:810:ARG:HB2	1.93	0.69
1:G:533:PHE:O	1:G:537:GLU:HG2	1.93	0.69
1:G:815:CYS:O	1:G:819:ASN:HB2	1.93	0.69
1:J:123:CYS:HB2	1:J:158:ILE:CD1	2.23	0.69
1:M:787:ILE:HG22	1:M:788:THR:N	2.07	0.69
1:P:642:LYS:HB3	4:1:21:PHE:O	1.92	0.69
1:P:810:ARG:HH11	1:P:810:ARG:HG2	1.57	0.69
4:2:287:ILE:CG2	4:4:203:THR:N	2.55	0.69
4:X:287:ILE:CB	4:Z:205:GLU:HG3	2.22	0.69
2:B:117:LEU:CB	2:B:147:ASN:OD1	2.39	0.69
1:D:553:MLY:HG2	4:W:47:MET:N	2.07	0.69
1:D:652:LEU:O	1:D:655:GLU:N	2.26	0.69
1:G:795:ARG:HB3	3:I:35:ARG:HH12	1.55	0.69
3:I:4:LYS:N	3:I:5:ALA:O	2.16	0.69
1:J:533:PHE:O	1:J:537:GLU:HG2	1.93	0.69
1:M:813:ILE:HG23	2:N:128:PHE:CE1	2.27	0.69
2:N:117:LEU:CB	2:N:147:ASN:ND2	2.35	0.69
1:P:72:VAL:HG13	1:P:76:GLN:CB	2.19	0.69
1:P:84:MLY:CH1	1:P:776:GLU:CD	2.57	0.69
1:P:546:THR:HG22	1:P:548:THR:N	2.05	0.69
1:P:807:VAL:O	1:P:810:ARG:HB2	1.93	0.69
4:1:243:PRO:N	4:Y:291:LYS:HE3	2.08	0.69
4:Z:3:ASP:HA	4:Z:6:THR:CB	2.18	0.69
1:A:52:ILE:HD13	1:A:52:ILE:N	2.08	0.68
1:A:768:MLY:HB3	1:A:771:LEU:CG	2.23	0.68
1:G:84:MLY:CH2	1:G:723:ARG:CB	2.69	0.68
1:G:801:VAL:HG23	3:I:126:LEU:HD21	1.74	0.68
1:J:732:ILE:CG2	1:J:747:LEU:HD11	1.26	0.68
1:M:218:LEU:HB2	1:M:221:GLN:CG	2.09	0.68
1:M:541:MET:CG	4:Z:345:ILE:O	2.40	0.68
1:M:724:TYR:HE1	1:M:775:LEU:HG	1.58	0.68
1:M:798:LEU:HD21	3:O:126:LEU:CD1	2.23	0.68
3:O:48:LYS:HB3	3:O:52:ASN:HD21	1.57	0.68
1:P:213:LYS:HA	1:P:220:ASP:OD1	1.92	0.68
4:5:1:ASP:HA	4:5:4:GLU:HB3	1.74	0.68
4:Z:160:THR:HG21	4:Z:274:ILE:HD11	1.75	0.68
1:A:802:GLU:OE1	1:A:802:GLU:HA	1.92	0.68
2:B:111:SER:OG	2:B:148:VAL:HG12	1.92	0.68
1:D:643:GLY:N	4:9:24:ASP:CA	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:802:GLU:OE1	1:D:802:GLU:HA	1.93	0.68
1:D:804:ARG:NH2	3:F:149:VAL:HA	2.09	0.68
1:G:123:CYS:HB2	1:G:158:ILE:CD1	2.23	0.68
1:G:642:LYS:HB3	4:V:21:PHE:O	1.92	0.68
1:G:829:TRP:CH2	2:H:83:MET:CE	2.76	0.68
1:J:732:ILE:HG21	1:J:747:LEU:HD11	0.73	0.68
1:J:819:ASN:HA	2:K:90:GLY:C	2.08	0.68
1:M:732:ILE:HG21	1:M:747:LEU:HD11	0.73	0.68
1:P:408:VAL:HG12	4:1:332:PRO:HB3	1.75	0.68
1:P:652:LEU:O	1:P:655:GLU:N	2.26	0.68
1:P:799:MET:SD	3:R:32:ASP:CA	2.80	0.68
1:A:642:LYS:HB3	4:8:21:PHE:O	1.93	0.68
1:A:732:ILE:HG23	1:A:747:LEU:CB	1.85	0.68
1:A:753:VAL:HG12	1:A:775:LEU:HG	0.72	0.68
1:G:62:VAL:HG12	1:G:63:MLY:O	1.94	0.68
1:G:817:GLN:HB3	2:H:127:ARG:CD	2.23	0.68
1:G:831:TRP:CH2	2:H:47:LEU:HD22	2.24	0.68
1:J:52:ILE:HD13	1:J:52:ILE:N	2.09	0.68
1:J:530:MET:HE1	4:W:355:MET:SD	2.33	0.68
1:J:810:ARG:HG2	1:J:810:ARG:HH11	1.57	0.68
1:M:807:VAL:O	1:M:810:ARG:HB2	1.93	0.68
3:O:3:SER:O	3:O:4:LYS:CB	2.41	0.68
1:P:52:ILE:HD13	1:P:52:ILE:N	2.09	0.68
1:P:815:CYS:O	1:P:819:ASN:HB2	1.93	0.68
1:A:795:ARG:NH2	3:C:116:GLU:OE1	2.25	0.68
1:D:541:MET:CG	4:9:345:ILE:O	2.41	0.68
3:F:4:LYS:N	3:F:5:ALA:O	2.16	0.68
1:G:84:MLY:CD	1:G:724:TYR:CZ	2.75	0.68
1:J:541:MET:CG	4:W:345:ILE:O	2.40	0.68
1:J:652:LEU:O	1:J:655:GLU:N	2.26	0.68
4:3:160:THR:HG21	4:3:274:ILE:HD11	1.76	0.68
4:8:160:THR:HG21	4:8:274:ILE:HD11	1.76	0.68
4:V:160:THR:HG21	4:V:274:ILE:HD11	1.75	0.68
1:A:93:MET:CE	1:A:715:VAL:CB	2.71	0.68
1:G:148:ARG:NE	1:G:764:MLY:HH21	2.09	0.68
1:G:792:ALA:HA	3:I:42:THR:HA	1.74	0.68
2:H:144:VAL:CG1	2:H:153:ILE:HD13	2.19	0.68
1:J:408:VAL:HG12	4:W:332:PRO:HB3	1.76	0.68
1:J:797:PHE:CE1	3:L:146:ILE:HA	2.20	0.68
1:P:206:LYS:HD3	1:P:217:THR:HG23	0.71	0.68
4:1:205:GLU:CG	4:Y:287:ILE:HD13	2.23	0.68

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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	0.68
4:4:322:PRO:CB	4:6:244:ASP:CG	2.54	0.68
1:A:505:MLY:CB	1:A:762:HIS:H	2.07	0.68
1:A:807:VAL:O	1:A:810:ARG:HB2	1.93	0.68
1:D:507:GLY:O	1:D:762:HIS:N	2.27	0.68
1:D:819:ASN:CG	2:E:90:GLY:O	2.32	0.68
1:G:752:ASP:O	1:G:780:ASP:CA	2.22	0.68
1:G:817:GLN:CG	2:H:127:ARG:CD	2.72	0.68
3:I:48:LYS:C	3:I:52:ASN:HD21	1.96	0.68
1:J:213:LYS:HA	1:J:220:ASP:OD1	1.92	0.68
1:M:62:VAL:HG12	1:M:63:MLY:O	1.93	0.68
1:M:538:GLU:CD	4:Z:355:MET:HE1	2.12	0.68
1:M:546:THR:HG22	1:M:548:THR:N	2.05	0.68
1:M:796:GLY:HA2	3:O:35:ARG:HG2	1.74	0.68
1:M:815:CYS:O	1:M:819:ASN:HB2	1.93	0.68
1:M:836:PHE:CE2	2:N:160:GLY:CA	2.76	0.68
3:O:48:LYS:C	3:O:52:ASN:HD21	1.96	0.68
4:2:287:ILE:HG23	4:4:202:THR:HG1	1.56	0.68
4:4:153:LEU:HD11	4:4:274:ILE:HG13	1.76	0.68
1:A:97:LEU:CD2	1:A:712:PRO:HB2	2.23	0.68
1:A:501:GLU:HG2	1:A:762:HIS:HD1	0.86	0.68
3:C:3:SER:O	3:C:4:LYS:CB	2.41	0.68
1:D:52:ILE:HD13	1:D:52:ILE:N	2.09	0.68
1:D:795:ARG:HE	3:F:116:GLU:HB3	1.57	0.68
1:D:819:ASN:HB2	2:E:90:GLY:O	1.93	0.68
1:G:52:ILE:HD13	1:G:52:ILE:N	2.09	0.68
1:G:292:MET:HE3	1:G:309:PRO:HA	1.74	0.68
1:G:538:GLU:CD	4:V:355:MET:CE	2.62	0.68
1:G:550:PHE:HE2	1:G:592:ILE:HG23	1.59	0.68
1:G:807:VAL:O	1:G:810:ARG:HB2	1.93	0.68
1:J:215:GLN:HA	1:J:340:ILE:CB	2.23	0.68
1:J:538:GLU:CD	4:W:355:MET:CE	2.62	0.68
1:J:546:THR:H	1:J:549:SER:HB3	1.59	0.68
1:M:533:PHE:O	1:M:537:GLU:HG2	1.93	0.68
1:M:538:GLU:CD	4:Z:355:MET:CE	2.62	0.68
1:A:502:GLU:OE2	1:A:764:MLY:O	2.11	0.68
2:B:117:LEU:CG	2:B:147:ASN:HB3	2.24	0.68
1:D:213:LYS:HA	1:D:220:ASP:OD1	1.92	0.68
3:L:102:VAL:HG23	3:L:139:TYR:HD1	1.59	0.68
1:M:722:GLN:NE2	3:O:89:GLU:HB2	2.08	0.68
4:2:153:LEU:HD11	4:2:274:ILE:HG13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:6:153:LEU:HD11	4:6:274:ILE:HG13	1.76	0.68
1:A:538:GLU:CD	4:8:355:MET:HE3	2.14	0.68
1:A:815:CYS:O	1:A:819:ASN:HB2	1.93	0.68
2:B:117:LEU:HD12	2:B:147:ASN:CA	2.20	0.68
1:D:166:MET:HE3	1:D:254:PHE:CD2	2.29	0.68
1:D:408:VAL:HG12	4:9:332:PRO:HB3	1.76	0.68
1:D:709:LYS:C	1:D:710:GLY:HA2	2.13	0.68
3:F:3:SER:O	3:F:4:LYS:CB	2.41	0.68
1:G:84:MLY:HH22	1:G:723:ARG:HB3	1.75	0.68
1:G:733:PRO:C	1:G:737:PHE:CD1	2.62	0.68
1:G:787:ILE:HG22	1:G:788:THR:N	2.07	0.68
2:N:117:LEU:HD12	2:N:147:ASN:CA	2.19	0.68
1:P:792:ALA:N	3:R:42:THR:HG22	2.09	0.68
4:1:160:THR:HG21	4:1:274:ILE:HD11	1.76	0.68
4:3:287:ILE:CD1	4:5:203:THR:HB	2.19	0.68
4:Y:160:THR:HG21	4:Y:274:ILE:HD11	1.75	0.68
1:A:410:ASN:CG	4:8:334:GLU:CA	2.48	0.68
1:A:792:ALA:HB2	3:C:42:THR:HG22	0.69	0.68
1:A:797:PHE:CE1	3:C:146:ILE:CG2	2.77	0.68
1:A:831:TRP:NE1	2:B:51:PHE:HZ	1.63	0.68
1:D:546:THR:H	1:D:549:SER:HB3	1.59	0.68
1:D:797:PHE:HE2	3:F:126:LEU:HD22	0.62	0.68
1:J:817:GLN:CB	2:K:127:ARG:HH11	2.04	0.68
1:M:721:LYS:HG2	1:M:736:GLN:CD	1.86	0.68
4:2:64:ILE:HG21	4:Z:166:TYR:CE2	2.25	0.68
4:7:153:LEU:HD11	4:7:274:ILE:HG13	1.76	0.68
1:A:800:ARG:O	3:C:149:VAL:HG21	1.93	0.67
1:D:830:PRO:HG2	2:E:67:MET:HE1	1.76	0.67
3:I:102:VAL:HG23	3:I:139:TYR:HD1	1.59	0.67
1:J:166:MET:HE3	1:J:254:PHE:CD2	2.29	0.67
1:M:123:CYS:HB2	1:M:158:ILE:CD1	2.23	0.67
1:M:546:THR:H	1:M:549:SER:HB3	1.59	0.67
1:M:713:SER:OG	1:M:772:LEU:HD23	1.95	0.67
1:P:767:PHE:CG	1:P:772:LEU:HD21	2.28	0.67
1:P:767:PHE:HB3	1:P:772:LEU:CD1	2.25	0.67
1:P:817:GLN:CB	2:Q:127:ARG:HH11	2.05	0.67
4:2:1:ASP:HA	4:2:4:GLU:HB3	1.74	0.67
4:W:160:THR:HG21	4:W:274:ILE:HD11	1.76	0.67
1:A:62:VAL:HG12	1:A:63:MLY:O	1.93	0.67
1:A:652:LEU:O	1:A:655:GLU:N	2.27	0.67
1:D:630:ALA:O	4:9:25:ASP:HB2	1.92	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:838:ILE:HD13	2:E:54:MET:CE	2.22	0.67
2:E:150:TYR:C	2:E:151:LYS:CG	2.48	0.67
1:G:215:GLN:HA	1:G:340:ILE:CB	2.23	0.67
2:K:144:VAL:CG1	2:K:153:ILE:HD13	2.20	0.67
3:L:3:SER:O	3:L:4:LYS:CB	2.41	0.67
1:M:166:MET:HE3	1:M:254:PHE:CD2	2.29	0.67
1:M:818:TYR:CG	2:N:127:ARG:NH1	2.61	0.67
1:M:834:LEU:HD12	2:N:51:PHE:HE1	1.59	0.67
1:P:541:MET:CG	4:1:345:ILE:O	2.40	0.67
1:P:732:ILE:HG21	1:P:747:LEU:HD11	0.73	0.67
1:P:806:MET:O	1:P:810:ARG:N	2.27	0.67
3:R:102:VAL:HG23	3:R:139:TYR:HD1	1.59	0.67
4:X:291:LYS:HB3	4:Z:246:GLN:H	1.59	0.67
1:A:123:CYS:HB2	1:A:158:ILE:CD1	2.23	0.67
1:A:538:GLU:CD	4:8:355:MET:CE	2.62	0.67
1:A:612:GLN:NE2	1:A:627:GLY:N	2.43	0.67
1:A:797:PHE:CD1	3:C:146:ILE:C	2.65	0.67
1:J:58:GLY:HA2	1:J:74:GLU:OE1	1.95	0.67
1:J:550:PHE:HE2	1:J:592:ILE:HG23	1.59	0.67
1:M:530:MET:HE3	4:Z:354:GLN:HG2	1.73	0.67
1:M:642:LYS:HB3	4:Z:21:PHE:O	1.92	0.67
1:M:802:GLU:OE1	1:M:802:GLU:HA	1.93	0.67
4:2:160:THR:HG21	4:2:274:ILE:HD11	1.75	0.67
1:A:290:GLN:O	1:A:331:LEU:HD12	1.95	0.67
2:B:141:PRO:O	2:B:145:ALA:CB	2.43	0.67
1:D:62:VAL:HG12	1:D:63:MLY:O	1.93	0.67
1:G:131:TRP:O	1:G:132:LEU:HD12	1.95	0.67
1:G:612:GLN:NE2	1:G:627:GLY:N	2.42	0.67
1:J:62:VAL:HG12	1:J:63:MLY:O	1.93	0.67
1:J:802:GLU:OE1	1:J:802:GLU:HA	1.93	0.67
2:K:117:LEU:CB	2:K:147:ASN:ND2	2.35	0.67
1:M:612:GLN:NE2	1:M:627:GLY:N	2.43	0.67
1:P:123:CYS:HB2	1:P:158:ILE:CD1	2.23	0.67
1:P:374:GLN:HG3	1:P:375:ALA:H	1.59	0.67
1:P:537:GLU:C	4:1:351:THR:H	1.98	0.67
1:P:550:PHE:HE2	1:P:592:ILE:HG23	1.59	0.67
1:P:718:ALA:HB1	3:R:85:GLU:CG	2.24	0.67
3:R:3:SER:O	3:R:4:LYS:CB	2.41	0.67
4:5:160:THR:HG21	4:5:274:ILE:HD11	1.75	0.67
4:9:160:THR:HG21	4:9:274:ILE:HD11	1.75	0.67
4:X:153:LEU:HD11	4:X:274:ILE:HG13	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:831:TRP:HZ3	2:H:34:ILE:HG21	1.60	0.67
2:K:117:LEU:CG	2:K:147:ASN:HB3	2.24	0.67
1:M:58:GLY:HA2	1:M:74:GLU:OE1	1.95	0.67
1:M:480:ILE:HG22	1:M:481:ASN:ND2	2.10	0.67
1:M:813:ILE:CG2	2:N:128:PHE:CE1	2.77	0.67
2:N:141:PRO:O	2:N:145:ALA:CB	2.43	0.67
1:P:62:VAL:HG12	1:P:63:MLY:O	1.93	0.67
1:P:410:ASN:CG	4:1:334:GLU:CA	2.47	0.67
1:P:817:GLN:CG	2:Q:127:ARG:HB2	2.20	0.67
1:P:819:ASN:CG	2:Q:90:GLY:O	2.32	0.67
4:9:153:LEU:HD11	4:9:274:ILE:HG13	1.76	0.67
1:A:91:MET:HE3	1:A:119:SER:HB2	1.77	0.67
1:A:533:PHE:O	1:A:537:GLU:HG2	1.93	0.67
1:A:797:PHE:HE1	3:C:146:ILE:CA	1.72	0.67
2:E:117:LEU:CB	2:E:147:ASN:OD1	2.39	0.67
2:E:117:LEU:CG	2:E:147:ASN:HB3	2.24	0.67
2:E:144:VAL:CG1	2:E:153:ILE:HD13	2.19	0.67
1:J:93:MET:HA	1:J:714:ARG:H	1.60	0.67
1:M:793:ARG:NH1	3:O:40:ASN:HD22	1.92	0.67
1:P:166:MET:HE3	1:P:254:PHE:CD2	2.29	0.67
4:V:153:LEU:HD11	4:V:274:ILE:HG13	1.76	0.67
1:A:58:GLY:HA2	1:A:74:GLU:OE1	1.94	0.67
1:D:480:ILE:HG22	1:D:481:ASN:ND2	2.09	0.67
1:D:831:TRP:NE1	2:E:67:MET:SD	2.67	0.67
1:G:546:THR:H	1:G:549:SER:HB3	1.59	0.67
1:G:819:ASN:CB	2:H:90:GLY:O	2.41	0.67
1:J:480:ILE:HG22	1:J:481:ASN:ND2	2.09	0.67
1:J:648:THR:CB	4:W:350:SER:OG	2.43	0.67
1:M:374:GLN:HG3	1:M:375:ALA:H	1.59	0.67
1:M:652:LEU:O	1:M:655:GLU:N	2.27	0.67
1:P:290:GLN:O	1:P:331:LEU:HD12	1.95	0.67
2:Q:141:PRO:O	2:Q:145:ALA:CB	2.43	0.67
1:A:505:MLY:CB	1:A:762:HIS:N	2.58	0.67
1:A:505:MLY:HB2	1:A:761:GLY:CA	2.23	0.67
1:D:831:TRP:HH2	2:E:47:LEU:HA	1.56	0.67
2:E:141:PRO:O	2:E:145:ALA:CB	2.43	0.67
1:G:58:GLY:HA2	1:G:74:GLU:OE1	1.95	0.67
1:G:635:GLY:O	4:V:341:ILE:HG21	1.95	0.67
1:G:652:LEU:O	1:G:655:GLU:N	2.27	0.67
1:G:732:ILE:HG22	1:G:747:LEU:CD1	1.55	0.67
1:G:769:ALA:O	1:G:773:GLY:HA3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:117:LEU:CG	2:H:147:ASN:HB3	2.24	0.67
1:M:290:GLN:O	1:M:331:LEU:HD12	1.95	0.67
2:N:117:LEU:CG	2:N:147:ASN:HB3	2.25	0.67
2:N:150:TYR:C	2:N:151:LYS:CG	2.48	0.67
1:P:818:TYR:OH	2:Q:127:ARG:NH2	2.28	0.67
4:3:287:ILE:HG22	4:5:204:ALA:HB3	1.76	0.67
4:Z:153:LEU:HD11	4:Z:274:ILE:HG13	1.76	0.67
1:A:339:ASP:OD1	1:A:348:MLY:HH13	1.95	0.67
1:A:546:THR:H	1:A:549:SER:HB3	1.60	0.67
3:C:102:VAL:HG23	3:C:139:TYR:HD1	1.60	0.67
1:D:290:GLN:O	1:D:331:LEU:HD12	1.95	0.67
2:E:117:LEU:CB	2:E:147:ASN:ND2	2.35	0.67
1:G:339:ASP:OD1	1:G:348:MLY:HH13	1.95	0.67
1:G:757:GLN:OE1	1:G:772:LEU:CA	2.43	0.67
1:J:292:MET:HE3	1:J:309:PRO:HA	1.77	0.67
1:J:537:GLU:C	4:W:351:THR:H	1.98	0.67
1:J:826:VAL:HG21	2:K:88:LEU:HD23	1.76	0.67
1:M:52:ILE:HD13	1:M:52:ILE:N	2.09	0.67
1:M:131:TRP:O	1:M:132:LEU:HD12	1.95	0.67
1:M:541:MET:O	4:Z:143:TYR:OH	2.13	0.67
1:M:635:GLY:O	4:Z:341:ILE:HG21	1.95	0.67
2:N:117:LEU:CB	2:N:147:ASN:OD1	2.39	0.67
1:P:217:THR:O	1:P:221:GLN:HG2	1.95	0.67
1:P:546:THR:H	1:P:549:SER:HB3	1.59	0.67
4:X:160:THR:HG21	4:X:274:ILE:HD11	1.76	0.67
1:A:836:PHE:CE2	2:B:160:GLY:N	2.63	0.67
1:D:58:GLY:HA2	1:D:74:GLU:OE1	1.95	0.67
1:D:217:THR:O	1:D:221:GLN:HG2	1.94	0.67
1:G:217:THR:O	1:G:221:GLN:HG2	1.95	0.67
1:G:218:LEU:HA	1:G:221:GLN:HG3	1.71	0.67
1:G:290:GLN:O	1:G:331:LEU:HD12	1.95	0.67
1:G:817:GLN:CG	2:H:127:ARG:CB	2.69	0.67
1:G:831:TRP:CZ3	2:H:34:ILE:HG21	2.30	0.67
1:G:834:LEU:CD2	2:H:34:ILE:HD11	2.24	0.67
3:I:49:ILE:HA	3:I:52:ASN:ND2	2.05	0.67
1:M:548:THR:O	4:2:49:GLN:HB2	1.95	0.67
2:N:114:LYS:HA	2:N:146:GLY:C	2.03	0.67
1:P:78:PHE:HB3	1:P:98:HIS:CD2	2.30	0.67
1:P:131:TRP:O	1:P:132:LEU:HD12	1.95	0.67
4:1:243:PRO:HG2	4:Y:288:ASP:HB3	1.76	0.67
1:A:537:GLU:C	4:8:351:THR:H	1.99	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:141:PRO:O	2:B:145:ALA:HB2	1.96	0.66
1:D:61:THR:HG23	1:D:71:THR:OG1	1.94	0.66
1:D:648:THR:CB	4:9:350:SER:OG	2.43	0.66
1:G:784:ALA:O	1:G:788:THR:HB	1.94	0.66
1:M:339:ASP:OD1	1:M:348:MLY:HH13	1.95	0.66
1:M:408:VAL:HG12	4:Z:332:PRO:HB3	1.76	0.66
1:M:829:TRP:HZ3	2:N:84:PHE:CE2	2.13	0.66
2:N:117:LEU:HD11	2:N:147:ASN:HB3	1.76	0.66
1:P:174:SER:O	1:P:670:HIS:HB2	1.95	0.66
1:P:648:THR:CB	4:1:350:SER:OG	2.43	0.66
2:Q:117:LEU:CG	2:Q:147:ASN:HB3	2.24	0.66
3:R:24:LYS:HA	3:R:63:ILE:O	1.95	0.66
4:1:205:GLU:HG3	4:Y:287:ILE:HD13	1.73	0.66
4:6:160:THR:HG21	4:6:274:ILE:HD11	1.76	0.66
4:7:160:THR:HG21	4:7:274:ILE:HD11	1.76	0.66
4:X:287:ILE:HG13	4:Z:201:VAL:CG2	0.25	0.66
1:A:635:GLY:O	4:8:341:ILE:HG21	1.95	0.66
1:A:721:LYS:HG2	1:A:736:GLN:CD	1.86	0.66
1:A:823:PHE:CZ	2:B:156:VAL:CG1	2.78	0.66
1:D:374:GLN:HG3	1:D:375:ALA:H	1.60	0.66
3:I:24:LYS:HA	3:I:63:ILE:O	1.95	0.66
1:J:84:MLY:HH21	1:J:720:PHE:C	2.14	0.66
1:M:174:SER:O	1:M:670:HIS:HB2	1.95	0.66
1:M:546:THR:HG21	4:2:48:GLY:HA2	1.75	0.66
1:M:648:THR:CB	4:Z:350:SER:OG	2.43	0.66
1:P:480:ILE:HG22	1:P:481:ASN:ND2	2.09	0.66
1:P:732:ILE:HG22	1:P:747:LEU:CD1	1.55	0.66
1:P:797:PHE:CE1	3:R:146:ILE:C	2.68	0.66
4:X:291:LYS:CG	4:Z:245:GLY:H	1.97	0.66
1:D:78:PHE:HB3	1:D:98:HIS:CD2	2.30	0.66
1:D:131:TRP:O	1:D:132:LEU:HD12	1.95	0.66
1:D:166:MET:HE3	1:D:254:PHE:HD2	1.61	0.66
1:D:813:ILE:HG21	2:E:128:PHE:HE1	1.56	0.66
1:G:78:PHE:HB3	1:G:98:HIS:CD2	2.30	0.66
1:G:174:SER:O	1:G:670:HIS:HB2	1.96	0.66
1:G:374:GLN:HG3	1:G:375:ALA:H	1.60	0.66
1:G:537:GLU:C	4:V:351:THR:H	1.99	0.66
1:G:834:LEU:CD2	2:H:34:ILE:CD1	2.73	0.66
2:H:141:PRO:O	2:H:145:ALA:CB	2.43	0.66
1:J:217:THR:O	1:J:221:GLN:HG2	1.95	0.66
1:J:541:MET:HG2	4:W:345:ILE:C	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:322:VAL:HB	1:M:325:ILE:CD1	2.26	0.66
1:M:819:ASN:CG	2:N:90:GLY:O	2.33	0.66
1:P:529:PRO:C	4:1:354:GLN:CB	2.48	0.66
1:P:829:TRP:CZ2	2:Q:87:LYS:CE	2.62	0.66
4:1:153:LEU:HD11	4:1:274:ILE:HG13	1.76	0.66
1:A:480:ILE:HG22	1:A:481:ASN:ND2	2.09	0.66
1:A:550:PHE:HE2	1:A:592:ILE:HG23	1.59	0.66
3:C:24:LYS:HA	3:C:63:ILE:O	1.95	0.66
1:D:793:ARG:NH2	3:F:87:PHE:HE1	1.93	0.66
1:D:831:TRP:CZ3	2:E:34:ILE:HG21	2.29	0.66
3:F:102:VAL:HG23	3:F:139:TYR:HD1	1.59	0.66
1:G:530:MET:HE2	4:V:354:GLN:HG3	1.78	0.66
1:J:78:PHE:HB3	1:J:98:HIS:CD2	2.30	0.66
1:J:131:TRP:O	1:J:132:LEU:HD12	1.95	0.66
1:J:612:GLN:NE2	1:J:627:GLY:N	2.43	0.66
2:K:141:PRO:O	2:K:145:ALA:CB	2.43	0.66
2:N:146:GLY:O	2:N:147:ASN:HB2	1.96	0.66
1:P:58:GLY:HA2	1:P:74:GLU:OE1	1.95	0.66
1:P:530:MET:CA	4:1:354:GLN:CB	2.74	0.66
4:V:324:THR:HG23	4:X:247:VAL:H	1.60	0.66
4:W:153:LEU:HD11	4:W:274:ILE:HG13	1.76	0.66
1:A:78:PHE:HB3	1:A:98:HIS:CD2	2.30	0.66
1:A:322:VAL:HB	1:A:325:ILE:CD1	2.26	0.66
1:A:599:ASN:OD1	1:A:649:VAL:N	2.29	0.66
1:D:418:THR:HG22	1:D:419:VAL:N	2.11	0.66
1:D:507:GLY:HA2	1:D:762:HIS:CE1	2.31	0.66
1:D:550:PHE:HE2	1:D:592:ILE:HG23	1.59	0.66
3:F:24:LYS:HA	3:F:63:ILE:O	1.95	0.66
1:G:541:MET:O	4:V:143:TYR:OH	2.13	0.66
1:J:226:ASN:HB2	1:J:227:PRO:HD3	1.77	0.66
1:J:290:GLN:O	1:J:331:LEU:HD12	1.95	0.66
1:J:599:ASN:OD1	1:J:649:VAL:N	2.29	0.66
1:M:806:MET:C	1:M:807:VAL:C	2.54	0.66
4:1:166:TYR:CE1	4:3:64:ILE:HG21	2.30	0.66
4:3:153:LEU:HD11	4:3:274:ILE:HG13	1.76	0.66
1:A:541:MET:O	4:8:143:TYR:OH	2.14	0.66
1:A:819:ASN:CG	2:B:90:GLY:O	2.34	0.66
1:D:530:MET:CA	4:9:354:GLN:CB	2.74	0.66
1:D:599:ASN:OD1	1:D:649:VAL:N	2.28	0.66
1:G:418:THR:HG22	1:G:419:VAL:N	2.11	0.66
1:G:783:LEU:O	1:G:787:ILE:CA	2.42	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	2.63	0.66
1:G:817:GLN:HG3	2:H:128:PHE:CE1	2.30	0.66
1:J:174:SER:O	1:J:670:HIS:HB2	1.95	0.66
1:J:567:LYS:NZ	4:Y:92:ASN:HA	2.11	0.66
1:M:78:PHE:HB3	1:M:98:HIS:CD2	2.30	0.66
1:M:217:THR:O	1:M:221:GLN:HG2	1.95	0.66
1:M:541:MET:HG2	4:Z:345:ILE:C	2.16	0.66
1:M:643:GLY:N	4:Z:24:ASP:CA	2.46	0.66
1:M:732:ILE:HG23	1:M:747:LEU:CB	1.84	0.66
2:N:141:PRO:O	2:N:145:ALA:HB2	1.96	0.66
1:P:612:GLN:NE2	1:P:627:GLY:N	2.43	0.66
1:P:797:PHE:HE1	3:R:146:ILE:CA	1.92	0.66
2:Q:114:LYS:HA	2:Q:146:GLY:C	2.03	0.66
4:X:292:ASP:OD1	4:Z:244:ASP:HB2	1.95	0.66
1:A:217:THR:O	1:A:221:GLN:HG2	1.94	0.66
1:D:834:LEU:CD2	2:E:54:MET:HE3	2.24	0.66
1:G:480:ILE:HG22	1:G:481:ASN:ND2	2.10	0.66
1:G:648:THR:CB	4:V:350:SER:OG	2.44	0.66
1:G:791:GLN:OE1	3:I:116:GLU:HG3	1.96	0.66
2:H:117:LEU:CB	2:H:147:ASN:OD1	2.39	0.66
1:J:161:ASN:O	1:J:165:PHE:HB2	1.96	0.66
3:L:24:LYS:HA	3:L:63:ILE:O	1.95	0.66
1:M:737:PHE:HD2	3:O:84:PHE:CE2	2.07	0.66
1:M:737:PHE:CE1	3:O:85:GLU:OE2	2.45	0.66
3:O:49:ILE:HA	3:O:52:ASN:ND2	2.06	0.66
1:P:61:THR:HG23	1:P:71:THR:OG1	1.94	0.66
1:P:226:ASN:HB2	1:P:227:PRO:HD3	1.77	0.66
4:8:153:LEU:HD11	4:8:274:ILE:HG13	1.76	0.66
4:Y:153:LEU:HD11	4:Y:274:ILE:HG13	1.76	0.66
1:A:61:THR:HG23	1:A:71:THR:OG1	1.94	0.66
1:A:161:ASN:O	1:A:165:PHE:HB2	1.96	0.66
1:A:174:SER:O	1:A:670:HIS:HB2	1.96	0.66
1:A:530:MET:CG	4:8:354:GLN:CG	2.71	0.66
1:A:819:ASN:OD1	2:B:92:ASP:N	2.18	0.66
1:D:91:MET:HE3	1:D:119:SER:HB2	1.78	0.66
1:D:792:ALA:CA	3:F:42:THR:HG22	2.20	0.66
1:G:61:THR:HG23	1:G:71:THR:OG1	1.94	0.66
1:G:161:ASN:O	1:G:165:PHE:HB2	1.96	0.66
1:J:642:LYS:CD	4:W:24:ASP:O	2.43	0.66
1:J:831:TRP:HE1	2:K:67:MET:CB	2.03	0.66
1:M:226:ASN:HB2	1:M:227:PRO:HD3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:550:PHE:HE2	1:M:592:ILE:HG23	1.59	0.66
1:M:642:LYS:HA	4:Z:21:PHE:O	1.96	0.66
1:M:707:CYS:O	1:M:710:GLY:CA	2.44	0.66
1:M:792:ALA:H	3:O:42:THR:CG2	2.05	0.66
2:N:144:VAL:CG1	2:N:153:ILE:HD13	2.19	0.66
1:P:642:LYS:CD	4:1:24:ASP:O	2.43	0.66
1:P:802:GLU:OE1	1:P:802:GLU:HA	1.93	0.66
4:2:203:THR:CB	4:Z:287:ILE:HG21	2.26	0.66
4:4:288:ASP:OD2	4:6:203:THR:CB	2.42	0.66
1:A:131:TRP:O	1:A:132:LEU:HD12	1.94	0.66
1:A:612:GLN:HE22	1:A:627:GLY:N	1.94	0.66
1:A:648:THR:CB	4:8:350:SER:OG	2.43	0.66
2:B:146:GLY:O	2:B:147:ASN:HB2	1.96	0.66
1:D:161:ASN:O	1:D:165:PHE:HB2	1.96	0.66
1:D:541:MET:HG2	4:9:345:ILE:C	2.16	0.66
1:D:612:GLN:NE2	1:D:627:GLY:N	2.43	0.66
1:D:642:LYS:CD	4:9:24:ASP:O	2.42	0.66
1:G:612:GLN:HE22	1:G:627:GLY:N	1.94	0.66
1:G:757:GLN:CB	1:G:776:GLU:CG	2.74	0.66
1:G:769:ALA:HB2	1:G:770:GLY:N	2.06	0.66
1:J:480:ILE:HG22	1:J:481:ASN:N	2.11	0.66
1:J:530:MET:CA	4:W:354:GLN:CB	2.74	0.66
1:J:538:GLU:HA	4:W:349:LEU:HB3	1.78	0.66
1:J:635:GLY:O	4:W:341:ILE:HG21	1.95	0.66
1:J:818:TYR:CE1	2:K:127:ARG:NH1	2.62	0.66
1:M:144:ARG:NH1	1:M:160:ASP:OD1	2.29	0.66
1:M:599:ASN:OD1	1:M:649:VAL:N	2.29	0.66
1:M:691:VAL:O	1:M:695:LEU:HD13	1.96	0.66
1:M:791:GLN:NE2	3:O:116:GLU:N	2.44	0.66
1:M:821:ARG:NH2	2:N:127:ARG:CD	2.58	0.66
3:O:48:LYS:O	3:O:52:ASN:CG	2.34	0.66
3:O:102:VAL:HG23	3:O:139:TYR:HD1	1.59	0.66
1:P:161:ASN:O	1:P:165:PHE:HB2	1.96	0.66
1:P:480:ILE:HG22	1:P:481:ASN:N	2.11	0.66
4:2:203:THR:HG22	4:Z:287:ILE:CB	2.21	0.66
4:5:153:LEU:HD11	4:5:274:ILE:HG13	1.76	0.66
1:D:537:GLU:C	4:9:351:THR:H	1.98	0.66
3:F:48:LYS:O	3:F:52:ASN:CG	2.34	0.66
1:M:161:ASN:O	1:M:165:PHE:HB2	1.96	0.66
1:M:735:GLY:O	1:M:743:ALA:HA	1.94	0.66
2:Q:141:PRO:O	2:Q:145:ALA:HB2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:288:ASP:H	4:4:203:THR:CG2	2.08	0.66
4:2:322:PRO:CB	4:4:244:ASP:HB2	2.23	0.66
4:4:160:THR:HG21	4:4:274:ILE:HD11	1.76	0.66
1:A:408:VAL:HG12	4:8:332:PRO:HB3	1.76	0.65
1:A:499:GLU:OE2	1:A:766:PHE:HE2	1.77	0.65
1:A:541:MET:HG2	4:8:345:ILE:C	2.16	0.65
1:A:753:VAL:CG1	1:A:775:LEU:CG	2.44	0.65
1:A:793:ARG:HH21	3:C:147:MET:HE1	1.60	0.65
1:A:837:MLY:NZ	2:H:20:ASP:HB2	2.11	0.65
1:J:505:MLY:CG	1:J:762:HIS:HE1	2.06	0.65
1:M:61:THR:HG23	1:M:71:THR:OG1	1.95	0.65
1:M:418:THR:HG22	1:M:419:VAL:N	2.11	0.65
1:M:806:MET:C	1:M:807:VAL:HA	2.15	0.65
1:P:202:SER:HA	1:P:207:LYS:HE3	1.72	0.65
1:P:635:GLY:O	4:1:341:ILE:HG21	1.95	0.65
1:P:799:MET:SD	3:R:32:ASP:OD2	2.53	0.65
1:P:817:GLN:HB3	2:Q:127:ARG:HD3	1.78	0.65
3:R:48:LYS:O	3:R:52:ASN:CG	2.34	0.65
1:A:144:ARG:NH1	1:A:160:ASP:OD1	2.29	0.65
1:A:418:THR:HG22	1:A:419:VAL:N	2.11	0.65
1:A:642:LYS:HA	4:8:21:PHE:O	1.96	0.65
1:A:732:ILE:HG21	1:A:747:LEU:HD11	0.73	0.65
1:D:174:SER:O	1:D:670:HIS:HB2	1.96	0.65
1:D:466:GLY:HA2	1:D:484:ASN:ND2	2.11	0.65
3:F:3:SER:HG	3:F:5:ALA:N	1.95	0.65
1:G:408:VAL:HG12	4:V:332:PRO:HB3	1.76	0.65
1:G:466:GLY:HA2	1:G:484:ASN:HD21	1.61	0.65
1:G:505:MLY:HE3	1:G:762:HIS:HE2	1.48	0.65
1:J:418:THR:HG22	1:J:419:VAL:N	2.11	0.65
1:M:732:ILE:CG2	1:M:747:LEU:HD11	1.26	0.65
1:M:795:ARG:HG2	3:O:118:MET:HE1	1.77	0.65
1:P:541:MET:HG2	4:1:345:ILE:C	2.16	0.65
1:P:691:VAL:O	1:P:695:LEU:HD13	1.96	0.65
4:2:202:THR:CG2	4:Z:290:ARG:HH21	2.09	0.65
3:C:48:LYS:O	3:C:52:ASN:CG	2.34	0.65
1:D:144:ARG:NH1	1:D:160:ASP:OD1	2.29	0.65
1:D:635:GLY:O	4:9:341:ILE:HG21	1.95	0.65
3:F:45:GLU:O	3:F:49:ILE:HG13	1.97	0.65
1:G:144:ARG:NH1	1:G:160:ASP:OD1	2.29	0.65
1:G:226:ASN:HB2	1:G:227:PRO:HD3	1.78	0.65
1:G:322:VAL:HB	1:G:325:ILE:CD1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:691:VAL:O	1:G:695:LEU:HD13	1.97	0.65
3:I:45:GLU:O	3:I:49:ILE:HG13	1.97	0.65
1:M:530:MET:CA	4:Z:354:GLN:CB	2.74	0.65
1:M:537:GLU:C	4:Z:351:THR:H	1.98	0.65
1:P:599:ASN:OD1	1:P:649:VAL:N	2.29	0.65
1:D:322:VAL:HB	1:D:325:ILE:CD1	2.26	0.65
1:D:538:GLU:CD	4:9:355:MET:CE	2.62	0.65
1:D:732:ILE:HD11	1:D:782:MLY:HH11	1.74	0.65
2:E:141:PRO:O	2:E:145:ALA:HB2	1.96	0.65
1:G:534:SER:C	4:V:351:THR:CA	2.48	0.65
1:G:836:PHE:CZ	2:H:159:HIS:HA	2.31	0.65
2:H:141:PRO:O	2:H:145:ALA:HB2	1.96	0.65
1:J:61:THR:HG23	1:J:71:THR:OG1	1.95	0.65
1:J:339:ASP:OD1	1:J:348:MLY:HH13	1.95	0.65
2:K:141:PRO:O	2:K:145:ALA:HB2	1.96	0.65
1:P:29:ASN:HB3	1:P:784:ALA:CB	2.24	0.65
1:P:144:ARG:NH1	1:P:160:ASP:OD1	2.29	0.65
1:P:215:GLN:CA	1:P:340:ILE:CG2	2.62	0.65
1:P:418:THR:HG22	1:P:419:VAL:N	2.11	0.65
1:P:538:GLU:HA	4:1:349:LEU:HB3	1.78	0.65
3:R:45:GLU:O	3:R:49:ILE:HG13	1.96	0.65
4:1:287:ILE:HG21	4:3:203:THR:CB	2.25	0.65
1:A:226:ASN:HB2	1:A:227:PRO:HD3	1.78	0.65
1:D:541:MET:O	4:9:143:TYR:OH	2.14	0.65
2:E:117:LEU:HD11	2:E:147:ASN:HB3	1.76	0.65
1:G:599:ASN:OD1	1:G:649:VAL:N	2.29	0.65
1:G:739:ASP:CB	1:G:742:LYS:HB3	2.12	0.65
1:G:817:GLN:HE21	2:H:127:ARG:HB2	1.62	0.65
2:H:117:LEU:CB	2:H:147:ASN:ND2	2.35	0.65
1:J:97:LEU:HD22	1:J:712:PRO:HB2	1.76	0.65
1:J:322:VAL:HB	1:J:325:ILE:CD1	2.26	0.65
1:J:530:MET:HE3	4:W:355:MET:SD	2.36	0.65
1:J:691:VAL:O	1:J:695:LEU:HD13	1.96	0.65
3:O:24:LYS:HA	3:O:63:ILE:O	1.95	0.65
3:O:45:GLU:O	3:O:49:ILE:HG13	1.97	0.65
1:P:642:LYS:HA	4:1:21:PHE:O	1.96	0.65
1:A:202:SER:CA	1:A:207:LYS:HE3	2.27	0.65
1:A:530:MET:CA	4:8:354:GLN:CB	2.74	0.65
1:A:691:VAL:O	1:A:695:LEU:HD13	1.97	0.65
3:C:3:SER:HG	3:C:5:ALA:N	1.94	0.65
1:D:795:ARG:HH21	3:F:116:GLU:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:278:GLN:CG	1:G:317:GLU:HB2	2.27	0.65
1:G:557:GLU:HB2	4:X:47:MET:N	2.11	0.65
1:G:557:GLU:HB2	4:X:47:MET:C	2.16	0.65
2:H:146:GLY:O	2:H:147:ASN:HB2	1.96	0.65
3:I:48:LYS:O	3:I:52:ASN:CG	2.34	0.65
1:J:166:MET:HE3	1:J:254:PHE:HD2	1.61	0.65
1:J:374:GLN:HG3	1:J:375:ALA:H	1.59	0.65
1:J:556:ASP:O	4:Y:48:GLY:N	2.29	0.65
1:J:792:ALA:HA	3:L:42:THR:CA	2.25	0.65
3:L:48:LYS:O	3:L:52:ASN:CG	2.34	0.65
1:M:506:GLU:HG2	1:M:766:PHE:CE1	2.31	0.65
1:P:548:THR:CG2	4:3:49:GLN:H	2.06	0.65
1:P:822:SER:O	1:P:825:ASN:HB2	1.97	0.65
4:3:148:THR:HG21	4:5:45:VAL:CG2	2.26	0.65
1:D:226:ASN:HB2	1:D:227:PRO:HD3	1.78	0.65
1:D:339:ASP:OD1	1:D:348:MLY:HH13	1.95	0.65
1:D:769:ALA:CA	1:D:771:LEU:CA	1.76	0.65
1:D:793:ARG:CZ	3:F:87:PHE:HE1	2.10	0.65
3:F:48:LYS:C	3:F:52:ASN:HD21	1.96	0.65
1:G:28:GLN:CA	1:G:723:ARG:NH2	2.51	0.65
1:G:84:MLY:CH2	1:G:723:ARG:HB3	2.27	0.65
1:G:93:MET:HA	1:G:714:ARG:N	2.11	0.65
1:G:466:GLY:HA2	1:G:484:ASN:ND2	2.12	0.65
2:H:140:PHE:O	2:H:141:PRO:C	2.33	0.65
1:J:466:GLY:HA2	1:J:484:ASN:HD21	1.61	0.65
3:L:3:SER:HG	3:L:5:ALA:N	1.95	0.65
1:M:786:ILE:HG22	1:M:787:ILE:H	0.70	0.65
1:M:792:ALA:HA	3:O:42:THR:HA	1.77	0.65
1:M:822:SER:O	1:M:825:ASN:HB2	1.97	0.65
4:4:288:ASP:CB	4:6:203:THR:HG21	2.25	0.65
4:4:324:THR:HG21	4:6:244:ASP:N	1.80	0.65
4:W:324:THR:HG22	4:Y:247:VAL:HG13	1.77	0.65
1:A:466:GLY:HA2	1:A:484:ASN:ND2	2.12	0.65
1:A:636:LYS:HG3	4:8:334:GLU:CD	2.17	0.65
1:A:831:TRP:HZ3	2:B:50:THR:HG21	0.85	0.65
1:D:691:VAL:O	1:D:695:LEU:HD13	1.96	0.65
1:D:795:ARG:NH2	3:F:116:GLU:OE1	2.29	0.65
1:G:642:LYS:HA	4:V:21:PHE:O	1.97	0.65
1:J:144:ARG:NH1	1:J:160:ASP:OD1	2.29	0.65
1:J:732:ILE:HG22	1:J:747:LEU:CD1	1.55	0.65
1:M:534:SER:C	4:Z:351:THR:CA	2.47	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:339:ASP:OD1	1:P:348:MLY:HH13	1.95	0.65
1:P:783:LEU:HB3	1:P:786:ILE:CD1	2.25	0.65
1:P:829:TRP:CZ3	2:Q:84:PHE:CE1	2.85	0.65
4:1:167:GLU:CG	4:3:41:GLN:O	2.45	0.65
4:X:287:ILE:CG2	4:Z:201:VAL:CG2	2.68	0.65
1:A:278:GLN:CG	1:A:317:GLU:HB2	2.27	0.65
1:A:822:SER:O	1:A:825:ASN:HB2	1.97	0.65
1:D:793:ARG:HH21	3:F:147:MET:CE	2.10	0.65
1:G:530:MET:CA	4:V:354:GLN:CB	2.75	0.65
1:G:789:ALA:HB1	3:I:81:GLN:CD	2.16	0.65
1:J:636:LYS:HG3	4:W:334:GLU:CD	2.17	0.65
2:K:146:GLY:O	2:K:147:ASN:HB2	1.96	0.65
1:M:636:LYS:HG3	4:Z:334:GLU:CD	2.17	0.65
1:M:725:ARG:NE	1:M:737:PHE:HE1	1.95	0.65
1:P:322:VAL:HB	1:P:325:ILE:CD1	2.26	0.65
1:P:466:GLY:HA2	1:P:484:ASN:HD21	1.61	0.65
1:P:636:LYS:O	1:P:637:LYS:CB	2.45	0.65
1:P:829:TRP:CE2	2:Q:87:LYS:HE2	2.28	0.65
4:2:202:THR:HG22	4:Z:290:ARG:NH2	2.12	0.65
4:V:288:ASP:H	4:X:204:ALA:H	1.43	0.65
1:A:836:PHE:CZ	2:B:159:HIS:HA	2.31	0.65
1:D:94:MET:HE1	1:D:101:ALA:HB1	1.79	0.65
1:D:202:SER:HA	1:D:207:LYS:HE3	1.72	0.65
1:D:480:ILE:HG22	1:D:481:ASN:N	2.11	0.65
1:J:642:LYS:HA	4:W:21:PHE:O	1.96	0.65
1:J:822:SER:O	1:J:825:ASN:HB2	1.97	0.65
1:M:210:GLN:O	1:M:211:SER:OG	2.15	0.65
1:M:466:GLY:HA2	1:M:484:ASN:HD21	1.61	0.65
1:M:795:ARG:HG2	3:O:118:MET:CE	2.27	0.65
1:P:642:LYS:CA	4:1:21:PHE:O	2.45	0.65
1:P:722:GLN:HE21	3:R:86:ASP:H	1.39	0.65
3:R:3:SER:HG	3:R:5:ALA:N	1.95	0.65
4:W:325:MET:SD	4:Y:244:ASP:CG	2.75	0.65
1:A:814:PHE:CB	2:B:127:ARG:HH12	1.52	0.64
1:A:819:ASN:OD1	2:B:91:ALA:HA	1.69	0.64
2:E:140:PHE:HB3	2:E:144:VAL:CG1	2.27	0.64
1:G:479:CYS:HB3	1:G:653:PHE:CE2	2.33	0.64
1:G:636:LYS:O	1:G:637:LYS:CB	2.45	0.64
1:G:822:SER:O	1:G:825:ASN:HB2	1.97	0.64
1:G:829:TRP:CH2	2:H:84:PHE:CE1	2.84	0.64
1:J:84:MLY:HH12	1:J:720:PHE:CD1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:296:MLY:HH11	1:J:348:MLY:HH21	1.78	0.64
1:J:820:VAL:CG1	2:K:136:MET:HE1	2.26	0.64
1:M:107:MLY:HB3	1:M:686:MET:CE	2.27	0.64
1:P:166:MET:HE3	1:P:254:PHE:HD2	1.62	0.64
1:P:800:ARG:HH22	3:R:40:ASN:CG	1.99	0.64
2:Q:146:GLY:O	2:Q:147:ASN:HB2	1.96	0.64
1:A:133:PRO:O	1:A:136:ASN:HB2	1.98	0.64
1:A:725:ARG:NE	1:A:737:PHE:HE1	1.95	0.64
2:B:140:PHE:HB3	2:B:144:VAL:CG1	2.28	0.64
1:D:217:THR:HB	1:D:220:ASP:OD2	1.97	0.64
1:D:636:LYS:O	1:D:637:LYS:CB	2.45	0.64
1:D:724:TYR:HB3	1:D:782:MLY:CD	2.27	0.64
1:D:791:GLN:CD	3:F:116:GLU:HG3	2.13	0.64
1:D:806:MET:O	1:D:809:ARG:HB2	1.98	0.64
1:G:541:MET:HG2	4:V:345:ILE:C	2.17	0.64
1:J:217:THR:HB	1:J:220:ASP:OD2	1.97	0.64
1:J:642:LYS:CA	4:W:21:PHE:O	2.45	0.64
1:J:831:TRP:HZ3	2:K:34:ILE:HD13	1.62	0.64
3:L:45:GLU:O	3:L:49:ILE:HG13	1.96	0.64
1:M:795:ARG:HH21	3:O:116:GLU:CB	2.09	0.64
1:P:782:MLY:CH2	3:R:80:ASP:C	2.64	0.64
4:1:368:SER:OG	4:2:231:ALA:CB	2.44	0.64
1:A:217:THR:HB	1:A:220:ASP:OD2	1.97	0.64
2:B:114:LYS:HA	2:B:146:GLY:C	2.03	0.64
1:D:296:MLY:HH11	1:D:348:MLY:HH21	1.78	0.64
1:D:466:GLY:HA2	1:D:484:ASN:HD21	1.61	0.64
1:D:793:ARG:CZ	3:F:87:PHE:CE1	2.80	0.64
1:G:210:GLN:O	1:G:211:SER:OG	2.15	0.64
1:G:480:ILE:HG22	1:G:481:ASN:N	2.11	0.64
1:G:725:ARG:NE	1:G:737:PHE:HE1	1.95	0.64
1:G:796:GLY:CA	3:I:35:ARG:NE	2.60	0.64
3:I:3:SER:HG	3:I:5:ALA:N	1.95	0.64
1:J:466:GLY:HA2	1:J:484:ASN:ND2	2.12	0.64
1:J:541:MET:O	4:W:143:TYR:OH	2.13	0.64
1:J:792:ALA:CB	3:L:42:THR:N	2.61	0.64
1:M:133:PRO:O	1:M:136:ASN:HB2	1.98	0.64
1:P:133:PRO:O	1:P:136:ASN:HB2	1.98	0.64
1:P:538:GLU:CD	4:1:355:MET:CE	2.62	0.64
1:P:541:MET:O	4:1:143:TYR:OH	2.14	0.64
1:P:541:MET:HG2	4:1:345:ILE:O	1.98	0.64
1:P:725:ARG:NE	1:P:737:PHE:HE1	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:202:THR:HG22	4:Z:290:ARG:HH21	1.61	0.64
4:2:203:THR:CG2	4:Z:287:ILE:HB	2.28	0.64
1:A:149:GLN:HG2	1:A:719:ASP:HB2	1.78	0.64
1:A:374:GLN:HG3	1:A:375:ALA:H	1.60	0.64
1:A:479:CYS:HB3	1:A:653:PHE:CE2	2.32	0.64
1:A:480:ILE:HG22	1:A:481:ASN:N	2.11	0.64
1:A:817:GLN:NE2	2:B:127:ARG:HB3	2.05	0.64
1:A:823:PHE:CE1	2:B:156:VAL:HG12	2.32	0.64
2:B:117:LEU:CG	2:B:147:ASN:CB	2.76	0.64
1:D:133:PRO:O	1:D:136:ASN:HB2	1.98	0.64
1:D:612:GLN:HE22	1:D:627:GLY:N	1.94	0.64
2:E:144:VAL:HA	2:E:153:ILE:HD11	1.80	0.64
1:G:133:PRO:O	1:G:136:ASN:HB2	1.98	0.64
1:G:217:THR:HB	1:G:220:ASP:OD2	1.97	0.64
1:J:107:MLY:HB3	1:J:686:MET:CE	2.27	0.64
1:J:218:LEU:CD2	1:J:222:ILE:HG12	2.28	0.64
1:J:710:GLY:N	1:J:772:LEU:HD22	2.12	0.64
3:L:49:ILE:HA	3:L:52:ASN:ND2	2.05	0.64
1:M:480:ILE:HG22	1:M:481:ASN:N	2.11	0.64
2:N:140:PHE:HB3	2:N:144:VAL:CG1	2.27	0.64
4:1:110:LEU:O	4:2:195:GLU:CG	2.45	0.64
1:A:94:MET:HE1	1:A:101:ALA:HB1	1.79	0.64
1:A:466:GLY:HA2	1:A:484:ASN:HD21	1.61	0.64
1:A:530:MET:HE3	4:8:354:GLN:CG	2.21	0.64
1:D:529:PRO:C	4:9:354:GLN:CB	2.49	0.64
1:D:530:MET:CG	4:9:354:GLN:CG	2.71	0.64
1:D:795:ARG:NH2	3:F:116:GLU:HG2	2.12	0.64
1:D:831:TRP:CE3	2:E:34:ILE:CD1	2.80	0.64
1:G:411:GLU:N	4:V:333:PRO:HB2	2.10	0.64
1:G:834:LEU:CD2	2:H:34:ILE:HG12	2.27	0.64
2:H:117:LEU:CG	2:H:147:ASN:CB	2.76	0.64
1:M:166:MET:HE3	1:M:254:PHE:HD2	1.62	0.64
1:M:466:GLY:HA2	1:M:484:ASN:ND2	2.12	0.64
1:M:479:CYS:HB3	1:M:653:PHE:CE2	2.33	0.64
1:M:642:LYS:CA	4:Z:21:PHE:O	2.45	0.64
2:N:117:LEU:CG	2:N:147:ASN:CB	2.76	0.64
1:P:636:LYS:HG3	4:1:334:GLU:CD	2.17	0.64
1:P:804:ARG:O	1:P:808:GLU:CB	2.44	0.64
1:P:805:ALA:CA	1:P:808:GLU:HB2	2.27	0.64
2:Q:140:PHE:HB3	2:Q:144:VAL:CG1	2.28	0.64
4:2:287:ILE:HG13	4:4:202:THR:CB	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:LEU:CD2	1:D:222:ILE:HG12	2.28	0.64
1:D:479:CYS:HB3	1:D:653:PHE:CE2	2.32	0.64
1:D:553:MLY:CE	4:W:45:VAL:CA	2.49	0.64
1:D:642:LYS:HA	4:9:21:PHE:O	1.96	0.64
1:G:834:LEU:HD12	2:H:51:PHE:HE1	1.60	0.64
2:H:149:ASP:OD2	2:H:150:TYR:C	2.36	0.64
1:J:541:MET:HG2	4:W:345:ILE:O	1.98	0.64
1:J:636:LYS:O	1:J:637:LYS:CB	2.45	0.64
1:J:725:ARG:NE	1:J:737:PHE:HE1	1.95	0.64
1:P:296:MLY:HH11	1:P:348:MLY:HH21	1.78	0.64
1:P:783:LEU:HD12	1:P:783:LEU:N	2.13	0.64
2:Q:117:LEU:CG	2:Q:147:ASN:CB	2.76	0.64
4:2:287:ILE:HG21	4:4:204:ALA:N	2.11	0.64
4:7:190:MET:SD	4:7:209:VAL:HG11	2.38	0.64
4:X:291:LYS:HE3	4:Z:242:LEU:HB3	1.78	0.64
1:A:541:MET:HG2	4:8:345:ILE:O	1.98	0.64
1:A:543:PRO:HG2	4:8:143:TYR:O	1.98	0.64
1:D:538:GLU:HA	4:9:349:LEU:HB3	1.78	0.64
1:D:636:LYS:HG3	4:9:334:GLU:CD	2.17	0.64
1:G:107:MLY:HB3	1:G:686:MET:CE	2.26	0.64
1:G:636:LYS:HG3	4:V:334:GLU:CD	2.18	0.64
1:G:806:MET:O	1:G:809:ARG:HB2	1.97	0.64
1:J:133:PRO:O	1:J:136:ASN:HB2	1.98	0.64
1:J:537:GLU:C	4:W:351:THR:N	2.51	0.64
1:J:612:GLN:HE22	1:J:627:GLY:N	1.94	0.64
1:J:721:LYS:HG2	1:J:736:GLN:CD	1.86	0.64
1:J:818:TYR:CE1	2:K:127:ARG:HH22	1.42	0.64
2:K:140:PHE:HB3	2:K:144:VAL:CG1	2.28	0.64
2:K:149:ASP:OD2	2:K:150:TYR:C	2.36	0.64
1:M:642:LYS:CD	4:Z:340:TRP:CZ3	2.79	0.64
1:M:803:TYR:CD1	1:M:807:VAL:HG21	2.32	0.64
1:M:819:ASN:HD21	2:N:92:ASP:HB2	1.52	0.64
2:N:144:VAL:HA	2:N:153:ILE:HD11	1.80	0.64
1:P:218:LEU:CD2	1:P:222:ILE:HG12	2.28	0.64
1:P:466:GLY:HA2	1:P:484:ASN:ND2	2.11	0.64
1:P:818:TYR:CD1	2:Q:127:ARG:CZ	2.78	0.64
4:2:167:GLU:OE1	4:4:44:MET:HA	1.98	0.64
1:A:296:MLY:HH11	1:A:348:MLY:HH21	1.78	0.64
1:A:800:ARG:HD2	3:C:149:VAL:C	2.18	0.64
1:D:725:ARG:NE	1:D:737:PHE:HE1	1.95	0.64
1:G:94:MET:HE1	1:G:101:ALA:HB1	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:218:LEU:CD2	1:G:222:ILE:HG12	2.28	0.64
1:G:642:LYS:CD	4:V:24:ASP:O	2.43	0.64
2:H:140:PHE:HB3	2:H:144:VAL:CG1	2.28	0.64
1:J:796:GLY:HA2	3:L:35:ARG:HD3	1.78	0.64
1:J:830:PRO:HB3	2:K:67:MET:HE1	1.78	0.64
2:K:146:GLY:O	2:K:147:ASN:CB	2.46	0.64
1:M:127:ASN:HD22	1:M:128:PRO:CD	2.11	0.64
1:M:217:THR:HB	1:M:220:ASP:OD2	1.97	0.64
1:M:538:GLU:HA	4:Z:349:LEU:HB3	1.78	0.64
1:M:636:LYS:N	4:Z:334:GLU:OE1	2.31	0.64
1:P:411:GLU:N	4:1:333:PRO:HB2	2.11	0.64
1:P:479:CYS:HB3	1:P:653:PHE:CE2	2.32	0.64
1:P:721:LYS:HG2	1:P:736:GLN:CD	1.86	0.64
1:P:724:TYR:OH	1:P:775:LEU:CA	2.44	0.64
4:3:287:ILE:CB	4:5:204:ALA:H	2.11	0.64
4:4:190:MET:SD	4:4:209:VAL:HG11	2.38	0.64
4:X:291:LYS:CG	4:Z:246:GLN:HB2	2.26	0.64
4:X:291:LYS:HE2	4:Z:244:ASP:O	1.54	0.64
1:A:107:MLY:HB3	1:A:686:MET:CE	2.27	0.64
1:A:577:ALA:O	1:A:578:HIS:CD2	2.51	0.64
1:A:795:ARG:HG2	3:C:118:MET:HE1	1.78	0.64
2:B:149:ASP:OD2	2:B:150:TYR:C	2.36	0.64
3:C:45:GLU:O	3:C:49:ILE:HG13	1.97	0.64
1:D:406:VAL:HG12	1:D:407:GLY:N	2.13	0.64
1:D:577:ALA:O	1:D:578:HIS:CD2	2.51	0.64
2:E:117:LEU:CG	2:E:147:ASN:CB	2.76	0.64
1:G:557:GLU:CB	4:X:47:MET:C	2.50	0.64
1:J:479:CYS:HB3	1:J:653:PHE:CE2	2.33	0.64
1:J:795:ARG:CD	3:L:43:ASN:H	2.08	0.64
2:K:144:VAL:HA	2:K:153:ILE:HD11	1.80	0.64
1:M:537:GLU:C	4:Z:351:THR:N	2.51	0.64
1:M:612:GLN:HE22	1:M:627:GLY:N	1.94	0.64
1:P:210:GLN:O	1:P:211:SER:OG	2.15	0.64
1:P:530:MET:HE3	4:1:354:GLN:HG2	1.77	0.64
1:P:544:LYS:HB2	4:1:147:ARG:HA	1.80	0.64
1:P:795:ARG:HD3	3:R:43:ASN:CG	2.16	0.64
1:P:803:TYR:O	1:P:807:VAL:HB	1.97	0.64
2:Q:132:GLU:O	2:Q:136:MET:HG2	1.98	0.64
2:Q:149:ASP:OD2	2:Q:150:TYR:C	2.36	0.64
4:2:190:MET:SD	4:2:209:VAL:HG11	2.38	0.64
4:V:190:MET:SD	4:V:209:VAL:HG11	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Z:190:MET:SD	4:Z:209:VAL:HG11	2.38	0.64
1:A:411:GLU:N	4:8:333:PRO:HB2	2.11	0.64
1:A:818:TYR:HB3	2:B:90:GLY:H	1.63	0.64
2:B:132:GLU:O	2:B:136:MET:HG2	1.98	0.64
1:D:506:GLU:CG	1:D:764:MLY:HE2	2.23	0.64
1:D:642:LYS:CA	4:9:21:PHE:O	2.46	0.64
1:G:537:GLU:HB3	1:G:648:THR:HB	1.80	0.64
1:G:541:MET:HG2	4:V:345:ILE:O	1.98	0.64
1:G:553:MLY:O	4:X:46:GLY:CA	2.45	0.64
1:G:829:TRP:HZ2	2:H:83:MET:CE	2.08	0.64
1:J:28:GLN:HB3	1:J:723:ARG:NE	2.09	0.64
1:J:530:MET:HA	4:W:354:GLN:CB	2.28	0.64
1:M:296:MLY:HH11	1:M:348:MLY:HH21	1.78	0.64
1:M:406:VAL:HG12	1:M:407:GLY:N	2.13	0.64
1:P:217:THR:HB	1:P:220:ASP:OD2	1.97	0.64
1:A:218:LEU:CD2	1:A:222:ILE:HG12	2.28	0.63
1:A:642:LYS:CA	4:8:21:PHE:O	2.45	0.63
1:A:800:ARG:HH21	3:C:40:ASN:CG	1.79	0.63
2:B:140:PHE:O	2:B:141:PRO:C	2.33	0.63
2:B:146:GLY:O	2:B:147:ASN:CB	2.46	0.63
1:D:127:ASN:HD22	1:D:128:PRO:CD	2.11	0.63
1:D:541:MET:CA	4:9:143:TYR:OH	2.47	0.63
1:D:636:LYS:N	4:9:334:GLU:OE1	2.31	0.63
1:D:783:LEU:HD12	1:D:783:LEU:N	2.13	0.63
1:D:836:PHE:HZ	2:E:160:GLY:H	1.46	0.63
1:G:406:VAL:HG12	1:G:407:GLY:N	2.13	0.63
1:G:642:LYS:CG	4:V:22:ALA:C	2.66	0.63
1:G:724:TYR:HB3	1:G:727:LEU:HD12	1.80	0.63
1:G:725:ARG:NE	1:G:737:PHE:CE1	2.67	0.63
2:H:144:VAL:HA	2:H:153:ILE:HD11	1.80	0.63
1:J:795:ARG:HD2	3:L:43:ASN:H	1.63	0.63
1:J:806:MET:O	1:J:809:ARG:HB2	1.98	0.63
1:M:278:GLN:CG	1:M:317:GLU:HB2	2.27	0.63
1:M:506:GLU:OE2	1:M:763:THR:HB	1.98	0.63
1:M:725:ARG:NE	1:M:737:PHE:CE1	2.66	0.63
1:M:817:GLN:CD	2:N:127:ARG:CD	2.63	0.63
1:P:577:ALA:O	1:P:578:HIS:CD2	2.51	0.63
4:2:203:THR:HG21	4:Z:287:ILE:HB	1.80	0.63
4:3:324:THR:CG2	4:5:243:PRO:C	2.57	0.63
4:4:324:THR:CG2	4:6:244:ASP:C	2.55	0.63
1:A:636:LYS:O	1:A:637:LYS:CB	2.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:822:SER:O	1:D:825:ASN:HB2	1.97	0.63
1:G:537:GLU:C	4:V:351:THR:N	2.51	0.63
1:G:577:ALA:O	1:G:578:HIS:CD2	2.52	0.63
1:G:784:ALA:O	1:G:788:THR:CB	2.45	0.63
1:J:127:ASN:HD22	1:J:128:PRO:CD	2.11	0.63
1:J:537:GLU:HB3	1:J:648:THR:HB	1.80	0.63
1:J:642:LYS:CG	4:W:22:ALA:C	2.67	0.63
1:M:537:GLU:HB3	1:M:648:THR:HB	1.80	0.63
1:M:636:LYS:O	1:M:637:LYS:CB	2.45	0.63
2:N:146:GLY:O	2:N:147:ASN:CB	2.46	0.63
1:P:612:GLN:HE22	1:P:627:GLY:N	1.94	0.63
1:P:642:LYS:CG	4:1:22:ALA:C	2.67	0.63
4:X:190:MET:SD	4:X:209:VAL:HG11	2.38	0.63
4:Z:257:CYS:HB3	4:Z:258:PRO:HD3	1.81	0.63
1:A:636:LYS:N	4:8:334:GLU:OE1	2.31	0.63
1:D:411:GLU:N	4:9:333:PRO:HB2	2.10	0.63
1:D:538:GLU:HA	4:9:349:LEU:CG	2.28	0.63
1:D:830:PRO:HB2	2:E:51:PHE:CE1	2.33	0.63
1:G:757:GLN:OE1	1:G:772:LEU:HA	1.98	0.63
1:J:544:LYS:HB2	4:W:147:ARG:HA	1.80	0.63
1:M:577:ALA:O	1:M:578:HIS:CD2	2.51	0.63
3:R:48:LYS:C	3:R:52:ASN:HD21	1.96	0.63
4:2:257:CYS:HB3	4:2:258:PRO:HD3	1.81	0.63
4:8:257:CYS:HB3	4:8:258:PRO:HD3	1.81	0.63
1:A:544:LYS:HB2	4:8:147:ARG:HA	1.80	0.63
1:A:725:ARG:NE	1:A:737:PHE:CE1	2.67	0.63
1:D:724:TYR:HD1	1:D:727:LEU:HD11	1.64	0.63
1:G:636:LYS:N	4:V:334:GLU:OE1	2.31	0.63
1:G:642:LYS:CA	4:V:21:PHE:O	2.46	0.63
1:G:818:TYR:HB3	2:H:90:GLY:CA	2.27	0.63
1:G:831:TRP:CH2	2:H:47:LEU:HD23	2.23	0.63
2:H:132:GLU:O	2:H:136:MET:HG2	1.98	0.63
1:M:541:MET:HG2	4:Z:345:ILE:O	1.98	0.63
1:M:642:LYS:CG	4:Z:22:ALA:C	2.67	0.63
1:M:771:LEU:O	1:M:774:LEU:N	2.32	0.63
1:P:537:GLU:C	4:1:351:THR:N	2.51	0.63
1:P:537:GLU:HB3	1:P:648:THR:HB	1.80	0.63
4:4:257:CYS:HB3	4:4:258:PRO:HD3	1.81	0.63
4:6:190:MET:SD	4:6:209:VAL:HG11	2.38	0.63
4:V:257:CYS:HB3	4:V:258:PRO:HD3	1.81	0.63
4:X:287:ILE:HG12	4:Z:201:VAL:HG22	0.72	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:732:ILE:HG22	1:A:747:LEU:CD1	1.55	0.63
1:G:576:GLU:CG	1:G:577:ALA:N	2.43	0.63
1:G:754:ASP:C	1:G:776:GLU:OE1	2.35	0.63
1:J:717:TYR:HD1	1:J:744:SER:HG	1.45	0.63
1:J:791:GLN:OE1	3:L:116:GLU:HG3	1.98	0.63
1:J:819:ASN:OD1	2:K:92:ASP:CA	2.45	0.63
2:K:117:LEU:CG	2:K:147:ASN:CB	2.76	0.63
1:M:541:MET:CA	4:Z:143:TYR:OH	2.46	0.63
1:M:724:TYR:HB3	1:M:727:LEU:HD12	1.80	0.63
2:N:132:GLU:O	2:N:136:MET:HG2	1.98	0.63
1:P:107:MLY:HB3	1:P:686:MET:CE	2.27	0.63
1:P:725:ARG:NE	1:P:737:PHE:CE1	2.66	0.63
1:P:783:LEU:CA	1:P:786:ILE:CG1	2.77	0.63
2:Q:117:LEU:CB	2:Q:147:ASN:ND2	2.35	0.63
4:8:190:MET:SD	4:8:209:VAL:HG11	2.38	0.63
4:9:190:MET:SD	4:9:209:VAL:HG11	2.38	0.63
1:A:537:GLU:C	4:8:351:THR:N	2.52	0.63
1:A:538:GLU:HA	4:8:349:LEU:HB3	1.78	0.63
1:A:724:TYR:HB3	1:A:727:LEU:HD12	1.79	0.63
1:A:724:TYR:HD1	1:A:727:LEU:HD11	1.64	0.63
1:D:251:ARG:HB2	1:D:264:ASP:CB	2.29	0.63
1:D:278:GLN:CG	1:D:317:GLU:HB2	2.27	0.63
2:E:146:GLY:O	2:E:147:ASN:HB2	1.96	0.63
1:G:296:MLY:HH11	1:G:348:MLY:HH21	1.78	0.63
1:G:530:MET:HE3	4:V:354:GLN:CG	2.23	0.63
2:H:111:SER:OG	2:H:148:VAL:CG1	2.47	0.63
2:H:146:GLY:O	2:H:147:ASN:CB	2.46	0.63
1:J:577:ALA:O	1:J:578:HIS:CD2	2.51	0.63
1:J:724:TYR:HB3	1:J:727:LEU:HD12	1.80	0.63
2:K:132:GLU:O	2:K:136:MET:HG2	1.99	0.63
1:M:141:LEU:H	1:M:141:LEU:HD12	1.64	0.63
1:M:783:LEU:HD12	1:M:783:LEU:N	2.13	0.63
1:P:730:SER:C	1:P:733:PRO:HD2	2.19	0.63
1:P:786:ILE:HB	1:P:787:ILE:N	2.12	0.63
2:Q:121:LEU:HA	2:Q:128:PHE:CG	2.34	0.63
2:Q:146:GLY:O	2:Q:147:ASN:CB	2.46	0.63
1:A:141:LEU:H	1:A:141:LEU:HD12	1.64	0.63
1:A:149:GLN:CG	1:A:719:ASP:CG	2.63	0.63
1:A:251:ARG:HB2	1:A:264:ASP:CB	2.29	0.63
1:A:783:LEU:HD12	1:A:783:LEU:N	2.13	0.63
1:D:537:GLU:C	4:9:351:THR:N	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:725:ARG:C	1:D:782:MLY:CH2	2.66	0.63
1:D:767:PHE:O	1:D:771:LEU:HD21	1.99	0.63
2:E:121:LEU:HA	2:E:128:PHE:CG	2.34	0.63
1:G:166:MET:HE3	1:G:254:PHE:CD2	2.34	0.63
1:G:295:MLY:HG3	1:G:332:MET:HE1	1.79	0.63
1:G:530:MET:CG	4:V:354:GLN:CG	2.72	0.63
1:G:543:PRO:HG2	4:V:143:TYR:O	1.99	0.63
1:G:641:LYS:CE	1:G:647:GLN:CB	2.74	0.63
1:G:724:TYR:HD1	1:G:727:LEU:HD11	1.64	0.63
1:G:818:TYR:CD1	2:H:127:ARG:NH1	2.66	0.63
1:J:541:MET:CA	4:W:143:TYR:OH	2.46	0.63
1:J:730:SER:C	1:J:733:PRO:HD2	2.19	0.63
1:P:141:LEU:HD12	1:P:141:LEU:H	1.64	0.63
1:A:127:ASN:HD22	1:A:128:PRO:CD	2.11	0.63
1:A:501:GLU:O	1:A:762:HIS:NE2	2.31	0.63
1:D:542:PHE:CZ	1:D:553:MLY:HH11	2.34	0.63
1:D:553:MLY:CG	4:W:47:MET:N	2.54	0.63
1:J:406:VAL:HG12	1:J:407:GLY:N	2.13	0.63
1:J:541:MET:C	4:W:143:TYR:CZ	2.72	0.63
1:J:725:ARG:NE	1:J:737:PHE:CE1	2.66	0.63
2:K:121:LEU:HA	2:K:128:PHE:CG	2.34	0.63
1:M:839:MLY:HH21	2:N:158:THR:HG22	1.81	0.63
1:P:831:TRP:CZ3	2:Q:34:ILE:HD13	2.33	0.63
4:X:257:CYS:HB3	4:X:258:PRO:HD3	1.81	0.63
1:A:406:VAL:HG12	1:A:407:GLY:N	2.13	0.63
1:A:541:MET:CA	4:8:143:TYR:OH	2.47	0.63
1:A:754:ASP:OD2	1:A:774:LEU:HD23	1.99	0.63
1:A:813:ILE:HG23	2:B:128:PHE:CE1	2.33	0.63
1:D:544:LYS:HB2	4:9:147:ARG:HA	1.80	0.63
1:D:642:LYS:CG	4:9:22:ALA:C	2.67	0.63
1:G:28:GLN:HA	1:G:723:ARG:HH22	1.57	0.63
1:G:127:ASN:HD22	1:G:128:PRO:CD	2.11	0.63
1:J:643:GLY:H	4:W:23:GLY:C	2.02	0.63
1:M:218:LEU:CD2	1:M:222:ILE:HG12	2.28	0.63
1:P:643:GLY:H	4:1:23:GLY:C	2.01	0.63
1:P:724:TYR:HD1	1:P:727:LEU:HD11	1.64	0.63
1:P:831:TRP:HE1	2:Q:67:MET:CB	2.12	0.63
4:3:190:MET:SD	4:3:209:VAL:HG11	2.38	0.63
4:6:257:CYS:HB3	4:6:258:PRO:HD3	1.81	0.63
1:A:530:MET:HE2	4:8:354:GLN:HG3	1.81	0.62
1:A:553:MLY:O	4:V:48:GLY:HA2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:649:VAL:HG12	1:A:649:VAL:C	1.98	0.62
1:A:806:MET:O	1:A:809:ARG:HB2	1.98	0.62
2:B:144:VAL:HA	2:B:153:ILE:HD11	1.80	0.62
1:D:530:MET:HA	4:9:354:GLN:CB	2.28	0.62
1:D:537:GLU:HB3	1:D:648:THR:HB	1.80	0.62
1:D:551:MLY:C	4:W:46:GLY:O	2.47	0.62
1:G:544:LYS:HB2	4:V:147:ARG:HA	1.80	0.62
1:G:771:LEU:O	1:G:774:LEU:N	2.32	0.62
1:J:94:MET:HE1	1:J:101:ALA:HB1	1.80	0.62
1:J:411:GLU:N	4:W:333:PRO:HB2	2.11	0.62
1:J:543:PRO:HG2	4:W:143:TYR:O	1.98	0.62
1:J:710:GLY:C	1:J:772:LEU:HD22	2.19	0.62
1:J:771:LEU:O	1:J:774:LEU:N	2.32	0.62
1:M:805:ALA:O	1:M:808:GLU:N	2.31	0.62
1:P:127:ASN:HD22	1:P:128:PRO:CD	2.11	0.62
1:P:251:ARG:HB2	1:P:264:ASP:CB	2.29	0.62
1:P:530:MET:CG	4:1:354:GLN:CG	2.72	0.62
4:1:287:ILE:CG2	4:3:203:THR:HG21	2.25	0.62
4:W:190:MET:SD	4:W:209:VAL:HG11	2.38	0.62
1:A:278:GLN:HG3	1:A:318:GLY:N	2.14	0.62
1:A:537:GLU:HB3	1:A:648:THR:HB	1.80	0.62
1:D:274:ARG:HB2	1:D:285:TYR:CE2	2.34	0.62
1:D:724:TYR:HB3	1:D:727:LEU:HD12	1.80	0.62
2:E:111:SER:OG	2:E:148:VAL:CG1	2.47	0.62
2:E:132:GLU:O	2:E:136:MET:HG2	1.99	0.62
1:G:567:LYS:HZ1	4:X:92:ASN:HD22	1.20	0.62
1:G:757:GLN:OE1	1:G:772:LEU:C	2.37	0.62
2:H:121:LEU:HA	2:H:128:PHE:CG	2.34	0.62
1:J:251:ARG:HB2	1:J:264:ASP:CB	2.29	0.62
1:J:302:MET:HG2	1:J:303:LEU:CD1	2.29	0.62
1:P:797:PHE:HZ	3:R:146:ILE:CD1	1.63	0.62
2:Q:111:SER:OG	2:Q:148:VAL:CG1	2.47	0.62
2:Q:144:VAL:HA	2:Q:153:ILE:HD11	1.80	0.62
4:5:190:MET:SD	4:5:209:VAL:HG11	2.38	0.62
4:7:257:CYS:HB3	4:7:258:PRO:HD3	1.81	0.62
1:A:551:MLY:C	4:V:46:GLY:O	2.47	0.62
1:A:797:PHE:CE1	3:C:146:ILE:CB	2.80	0.62
1:A:813:ILE:HG12	2:B:128:PHE:CE1	2.34	0.62
2:B:121:LEU:HA	2:B:128:PHE:CG	2.34	0.62
1:D:95:THR:O	1:D:770:GLY:N	2.32	0.62
1:D:302:MET:HG2	1:D:303:LEU:CD1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:541:MET:HG2	4:9:345:ILE:O	1.98	0.62
1:G:538:GLU:HA	4:V:349:LEU:HB3	1.79	0.62
1:J:202:SER:CA	1:J:207:LYS:HE3	2.27	0.62
1:J:530:MET:CG	4:W:354:GLN:CG	2.72	0.62
1:J:636:LYS:N	4:W:334:GLU:OE1	2.31	0.62
1:J:783:LEU:HD12	1:J:783:LEU:N	2.13	0.62
1:M:530:MET:CG	4:Z:354:GLN:CG	2.72	0.62
1:M:541:MET:HE1	4:Z:346:LEU:HD12	1.81	0.62
1:M:829:TRP:CH2	2:N:84:PHE:CE1	2.87	0.62
1:P:541:MET:CA	4:1:143:TYR:OH	2.46	0.62
4:V:361:GLU:HB3	4:V:369:ILE:HG12	1.82	0.62
1:A:99:GLU:OE2	1:A:696:ARG:NH2	2.30	0.62
1:A:542:PHE:CZ	1:A:553:MLY:HH11	2.34	0.62
1:A:771:LEU:O	1:A:774:LEU:N	2.32	0.62
1:A:831:TRP:CE3	2:B:34:ILE:HG12	2.33	0.62
2:B:111:SER:OG	2:B:148:VAL:CG1	2.47	0.62
3:F:24:LYS:HB3	3:F:63:ILE:H	1.64	0.62
1:G:251:ARG:HB2	1:G:264:ASP:CB	2.29	0.62
1:G:541:MET:CA	4:V:143:TYR:OH	2.47	0.62
1:G:730:SER:C	1:G:733:PRO:HD2	2.20	0.62
1:G:783:LEU:HD12	1:G:783:LEU:N	2.13	0.62
1:J:724:TYR:HD1	1:J:727:LEU:HD11	1.64	0.62
1:M:278:GLN:HG3	1:M:318:GLY:N	2.15	0.62
1:M:724:TYR:HD1	1:M:727:LEU:HD11	1.64	0.62
1:M:793:ARG:HD3	3:O:40:ASN:HD22	1.63	0.62
1:P:94:MET:HE1	1:P:101:ALA:HB1	1.80	0.62
1:P:541:MET:C	4:1:143:TYR:CZ	2.72	0.62
4:3:288:ASP:N	4:5:203:THR:CG2	2.56	0.62
4:Z:361:GLU:HB3	4:Z:369:ILE:HG12	1.82	0.62
1:D:771:LEU:O	1:D:774:LEU:N	2.32	0.62
2:E:114:LYS:HG3	2:E:146:GLY:HA2	1.82	0.62
2:E:146:GLY:O	2:E:147:ASN:CB	2.46	0.62
1:G:542:PHE:CZ	1:G:553:MLY:HH11	2.34	0.62
1:J:141:LEU:H	1:J:141:LEU:HD12	1.64	0.62
1:J:278:GLN:CG	1:J:317:GLU:HB2	2.27	0.62
1:J:295:MLY:HG3	1:J:332:MET:HE1	1.81	0.62
1:J:580:SER:HA	1:J:588:VAL:O	2.00	0.62
1:J:817:GLN:HB3	2:K:127:ARG:NH1	2.11	0.62
1:M:94:MET:HE1	1:M:101:ALA:HB1	1.80	0.62
1:M:580:SER:HA	1:M:588:VAL:O	2.00	0.62
1:M:642:LYS:CD	4:Z:24:ASP:O	2.43	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:SER:OG	2:N:148:VAL:CG1	2.47	0.62
2:N:149:ASP:OD2	2:N:150:TYR:C	2.36	0.62
3:O:50:LEU:O	3:O:53:PRO:HD2	2.00	0.62
1:P:542:PHE:N	4:1:143:TYR:OH	2.33	0.62
1:P:580:SER:HA	1:P:588:VAL:O	2.00	0.62
1:P:724:TYR:HB3	1:P:727:LEU:HD12	1.80	0.62
4:6:361:GLU:HB3	4:6:369:ILE:HG12	1.82	0.62
4:Y:190:MET:SD	4:Y:209:VAL:HG11	2.38	0.62
1:A:752:ASP:OD2	1:A:782:MLY:CD	2.47	0.62
1:D:278:GLN:HG3	1:D:318:GLY:N	2.15	0.62
1:D:542:PHE:N	4:9:143:TYR:OH	2.32	0.62
1:D:553:MLY:O	4:W:48:GLY:HA2	1.99	0.62
1:D:580:SER:HA	1:D:588:VAL:O	1.99	0.62
1:D:725:ARG:NE	1:D:737:PHE:CE1	2.67	0.62
1:D:755:HIS:HA	1:D:758:TYR:HE1	1.64	0.62
1:G:578:HIS:CB	1:G:592:ILE:HD12	2.29	0.62
1:G:797:PHE:HE2	3:I:126:LEU:CG	2.13	0.62
1:J:154:HIS:CE1	1:J:156:PHE:CD2	2.88	0.62
1:J:755:HIS:HA	1:J:758:TYR:HE1	1.65	0.62
2:K:111:SER:OG	2:K:148:VAL:CG1	2.47	0.62
1:M:541:MET:C	4:Z:143:TYR:CZ	2.72	0.62
2:N:121:LEU:HA	2:N:128:PHE:CG	2.34	0.62
1:P:202:SER:CA	1:P:207:LYS:HE3	2.27	0.62
1:P:542:PHE:CZ	1:P:553:MLY:HH11	2.34	0.62
1:P:636:LYS:N	4:1:334:GLU:OE1	2.31	0.62
1:P:722:GLN:NE2	3:R:85:GLU:H	1.95	0.62
1:P:771:LEU:O	1:P:774:LEU:N	2.32	0.62
1:P:792:ALA:CB	3:R:42:THR:HG22	2.29	0.62
1:P:821:ARG:HH12	2:Q:127:ARG:NE	1.98	0.62
4:1:361:GLU:HB3	4:1:369:ILE:HG12	1.82	0.62
4:2:287:ILE:HG23	4:4:202:THR:HB	0.88	0.62
4:5:257:CYS:HB3	4:5:258:PRO:HD3	1.81	0.62
4:8:361:GLU:HB3	4:8:369:ILE:HG12	1.82	0.62
1:A:161:ASN:HA	1:A:164:GLN:HE21	1.63	0.62
1:A:580:SER:HA	1:A:588:VAL:O	2.00	0.62
1:A:797:PHE:CG	3:C:146:ILE:CG2	2.77	0.62
1:D:541:MET:C	4:9:143:TYR:CZ	2.73	0.62
1:G:530:MET:CG	4:V:354:GLN:HG3	2.30	0.62
1:G:538:GLU:HA	4:V:349:LEU:CG	2.28	0.62
1:G:580:SER:HA	1:G:588:VAL:O	2.00	0.62
1:G:795:ARG:HA	3:I:118:MET:SD	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:542:PHE:N	4:W:143:TYR:OH	2.33	0.62
2:K:117:LEU:HD11	2:K:147:ASN:HB3	1.76	0.62
3:L:24:LYS:HB3	3:L:63:ILE:H	1.64	0.62
1:M:538:GLU:HA	4:Z:349:LEU:CG	2.28	0.62
1:M:542:PHE:CZ	1:M:553:MLY:HH11	2.34	0.62
1:P:91:MET:HE3	1:P:119:SER:HB2	1.82	0.62
1:P:302:MET:HG2	1:P:303:LEU:CD1	2.30	0.62
1:P:724:TYR:CZ	1:P:775:LEU:CD2	2.82	0.62
4:X:291:LYS:CG	4:Z:244:ASP:C	2.67	0.62
1:A:538:GLU:HA	4:8:349:LEU:CG	2.27	0.62
1:A:542:PHE:CB	4:8:143:TYR:HE1	2.13	0.62
1:A:642:LYS:CG	4:8:22:ALA:C	2.67	0.62
2:E:149:ASP:OD2	2:E:150:TYR:C	2.36	0.62
1:G:732:ILE:HG21	1:G:747:LEU:HD11	0.73	0.62
1:G:795:ARG:NH2	3:I:116:GLU:CD	2.45	0.62
1:G:819:ASN:ND2	2:H:92:ASP:CA	2.62	0.62
1:G:829:TRP:CH2	2:H:87:LYS:CE	2.83	0.62
2:H:114:LYS:HG3	2:H:146:GLY:HA2	1.82	0.62
1:J:161:ASN:HA	1:J:164:GLN:HE21	1.63	0.62
1:J:542:PHE:CZ	1:J:553:MLY:HH11	2.34	0.62
1:M:161:ASN:HA	1:M:164:GLN:HE21	1.63	0.62
1:M:251:ARG:HB2	1:M:264:ASP:CB	2.29	0.62
1:M:544:LYS:HB2	4:Z:147:ARG:HA	1.80	0.62
1:P:84:MLY:CA	1:P:780:ASP:OD2	2.48	0.62
1:P:99:GLU:OE2	1:P:696:ARG:NH2	2.30	0.62
1:P:530:MET:HA	4:1:354:GLN:CB	2.28	0.62
1:P:578:HIS:CD2	1:P:591:ASN:HA	2.31	0.62
4:1:190:MET:SD	4:1:209:VAL:HG11	2.38	0.62
4:9:257:CYS:HB3	4:9:258:PRO:HD3	1.81	0.62
1:A:274:ARG:HB2	1:A:285:TYR:CE2	2.34	0.62
1:A:530:MET:CG	4:8:354:GLN:HG3	2.30	0.62
1:D:520:ALA:O	1:D:524:GLU:HG2	2.00	0.62
1:D:809:ARG:NH2	2:E:120:LEU:HD11	2.15	0.62
1:G:81:ASN:OD1	1:G:96:HIS:HB2	2.00	0.62
1:G:161:ASN:HA	1:G:164:GLN:HE21	1.63	0.62
1:G:541:MET:HE2	4:V:346:LEU:HD12	1.82	0.62
1:G:829:TRP:CE2	2:H:87:LYS:HE2	2.35	0.62
3:I:24:LYS:HB3	3:I:63:ILE:H	1.64	0.62
1:J:754:ASP:C	1:J:780:ASP:OD2	2.38	0.62
1:M:730:SER:C	1:M:733:PRO:HD2	2.20	0.62
1:M:793:ARG:HD3	3:O:40:ASN:ND2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:406:VAL:HG12	1:P:407:GLY:N	2.13	0.62
1:P:735:GLY:O	1:P:743:ALA:HA	1.94	0.62
1:P:798:LEU:HD21	3:R:126:LEU:CD1	2.29	0.62
4:9:361:GLU:HB3	4:9:369:ILE:HG12	1.82	0.62
1:A:642:LYS:CD	4:8:24:ASP:O	2.42	0.62
1:A:643:GLY:H	4:8:23:GLY:C	2.02	0.62
1:D:161:ASN:HA	1:D:164:GLN:HE21	1.64	0.62
1:D:507:GLY:CA	1:D:762:HIS:ND1	2.61	0.62
1:D:730:SER:C	1:D:733:PRO:HD2	2.20	0.62
1:G:769:ALA:O	1:G:773:GLY:HA2	1.99	0.62
1:G:831:TRP:HH2	2:H:47:LEU:CD2	1.73	0.62
3:I:50:LEU:O	3:I:53:PRO:HD2	2.00	0.62
1:J:274:ARG:HB2	1:J:285:TYR:CE2	2.34	0.62
1:J:639:GLY:N	4:W:344:SER:C	2.54	0.62
1:J:642:LYS:CD	4:W:340:TRP:CZ3	2.79	0.62
1:P:543:PRO:HG2	4:1:143:TYR:O	1.98	0.62
1:P:578:HIS:CB	1:P:592:ILE:HD12	2.30	0.62
1:P:639:GLY:N	4:1:344:SER:C	2.54	0.62
1:P:735:GLY:C	1:P:743:ALA:HB1	1.84	0.62
3:R:52:ASN:N	3:R:53:PRO:HD2	2.15	0.62
4:1:257:CYS:HB3	4:1:258:PRO:HD3	1.81	0.62
4:2:361:GLU:HB3	4:2:369:ILE:HG12	1.82	0.62
4:W:257:CYS:HB3	4:W:258:PRO:HD3	1.81	0.62
4:X:291:LYS:CB	4:Z:246:GLN:HB2	2.30	0.62
1:A:541:MET:HE2	4:8:346:LEU:HD12	1.82	0.61
1:A:686:MET:HG3	1:A:691:VAL:HG21	1.82	0.61
1:A:823:PHE:CE1	2:B:160:GLY:HA3	2.32	0.61
3:C:24:LYS:HB3	3:C:63:ILE:H	1.64	0.61
3:C:52:ASN:N	3:C:53:PRO:HD2	2.15	0.61
3:C:63:ILE:HG22	3:C:64:THR:O	2.00	0.61
1:D:202:SER:CA	1:D:207:LYS:HE3	2.27	0.61
1:D:579:PHE:CE1	1:D:581:LEU:HD13	2.35	0.61
1:G:141:LEU:H	1:G:141:LEU:HD12	1.64	0.61
1:J:278:GLN:HG3	1:J:318:GLY:N	2.15	0.61
1:M:557:GLU:HG3	1:M:557:GLU:O	2.00	0.61
1:M:767:PHE:CD2	1:M:772:LEU:HD21	2.35	0.61
1:P:98:HIS:HB3	1:P:100:PRO:CD	2.25	0.61
1:P:278:GLN:CG	1:P:317:GLU:HB2	2.27	0.61
1:P:278:GLN:HG3	1:P:318:GLY:N	2.15	0.61
4:1:173:HIS:CD2	4:2:268:GLY:CA	2.83	0.61
4:7:361:GLU:HB3	4:7:369:ILE:HG12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:361:GLU:HB3	4:W:369:ILE:HG12	1.82	0.61
1:A:823:PHE:CD1	2:B:156:VAL:O	2.53	0.61
2:B:114:LYS:HG3	2:B:146:GLY:HA2	1.82	0.61
2:B:117:LEU:HD11	2:B:147:ASN:HB3	1.75	0.61
1:D:732:ILE:HG22	1:D:747:LEU:CD1	1.55	0.61
1:G:274:ARG:HB2	1:G:285:TYR:CE2	2.34	0.61
1:G:520:ALA:O	1:G:524:GLU:HG2	2.00	0.61
1:G:538:GLU:CD	4:V:355:MET:HE1	2.17	0.61
1:G:542:PHE:CB	4:V:143:TYR:HE1	2.13	0.61
1:G:643:GLY:H	4:V:23:GLY:C	2.02	0.61
1:G:795:ARG:HE	3:I:116:GLU:HB3	0.52	0.61
1:J:578:HIS:CD2	1:J:591:ASN:HA	2.31	0.61
1:J:756:THR:O	1:J:776:GLU:OE1	2.18	0.61
1:M:578:HIS:CB	1:M:592:ILE:HD12	2.30	0.61
1:P:154:HIS:CE1	1:P:156:PHE:CD2	2.88	0.61
1:P:767:PHE:CG	1:P:772:LEU:CD2	2.79	0.61
4:3:322:PRO:CB	4:5:244:ASP:HB2	2.26	0.61
4:Y:257:CYS:HB3	4:Y:258:PRO:HD3	1.81	0.61
4:Y:361:GLU:HB3	4:Y:369:ILE:HG12	1.82	0.61
1:A:295:MLY:HG3	1:A:332:MET:HE1	1.81	0.61
1:A:578:HIS:CD2	1:A:591:ASN:HA	2.31	0.61
1:A:578:HIS:CB	1:A:592:ILE:HD12	2.29	0.61
1:A:730:SER:C	1:A:733:PRO:HD2	2.20	0.61
1:G:154:HIS:CE1	1:G:156:PHE:CD2	2.88	0.61
1:J:795:ARG:O	3:L:35:ARG:NH2	2.34	0.61
1:J:818:TYR:CD1	2:K:127:ARG:CZ	2.81	0.61
3:L:48:LYS:C	3:L:52:ASN:HD21	1.96	0.61
1:M:542:PHE:CB	4:Z:143:TYR:HE1	2.13	0.61
1:M:643:GLY:H	4:Z:23:GLY:C	2.02	0.61
2:N:114:LYS:HG3	2:N:146:GLY:HA2	1.82	0.61
1:P:161:ASN:HA	1:P:164:GLN:HE21	1.63	0.61
1:P:642:LYS:CD	4:1:340:TRP:CZ3	2.79	0.61
1:P:723:ARG:NH1	1:P:779:ARG:CG	2.61	0.61
4:1:246:GLN:HB2	4:Y:291:LYS:HB3	1.83	0.61
4:3:257:CYS:HB3	4:3:258:PRO:HD3	1.81	0.61
1:A:502:GLU:CA	1:A:761:GLY:CA	2.54	0.61
1:A:541:MET:C	4:8:143:TYR:CZ	2.72	0.61
1:A:707:CYS:C	1:A:714:ARG:HH22	1.97	0.61
1:A:819:ASN:HB2	2:B:90:GLY:O	1.99	0.61
1:D:107:MLY:HB3	1:D:686:MET:CE	2.27	0.61
1:D:154:HIS:CE1	1:D:156:PHE:CD2	2.88	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:708:ARG:O	1:D:710:GLY:N	2.32	0.61
3:F:52:ASN:N	3:F:53:PRO:HD2	2.15	0.61
1:J:541:MET:SD	4:W:346:LEU:O	2.48	0.61
1:J:643:GLY:O	1:J:644:SER:CB	2.48	0.61
1:M:623:PHE:CG	1:M:623:PHE:HA	2.35	0.61
1:P:541:MET:HE2	4:1:346:LEU:HD12	1.81	0.61
1:P:579:PHE:CE1	1:P:581:LEU:HD13	2.35	0.61
1:P:797:PHE:CZ	3:R:146:ILE:HG23	2.35	0.61
1:P:805:ALA:O	1:P:809:ARG:HG3	2.01	0.61
4:3:361:GLU:HB3	4:3:369:ILE:HG12	1.82	0.61
1:D:643:GLY:H	4:9:23:GLY:C	2.02	0.61
1:D:767:PHE:O	1:D:771:LEU:CD2	2.48	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:541:MET:C	4:V:143:TYR:CZ	2.73	0.61
1:J:524:GLU:O	1:J:528:MLY:HB3	2.01	0.61
1:J:557:GLU:HG3	1:J:557:GLU:O	2.00	0.61
1:J:578:HIS:CB	1:J:592:ILE:HD12	2.30	0.61
1:J:579:PHE:CE1	1:J:581:LEU:HD13	2.35	0.61
1:M:274:ARG:HB2	1:M:285:TYR:CE2	2.34	0.61
1:M:411:GLU:N	4:Z:333:PRO:HB2	2.11	0.61
1:M:530:MET:HA	4:Z:354:GLN:CB	2.28	0.61
1:M:543:PRO:HG2	4:Z:143:TYR:O	1.98	0.61
3:O:24:LYS:HB3	3:O:63:ILE:H	1.64	0.61
1:P:274:ARG:HB2	1:P:285:TYR:CE2	2.34	0.61
1:P:643:GLY:O	1:P:644:SER:CB	2.48	0.61
1:P:796:GLY:HA3	3:R:40:ASN:OD1	2.00	0.61
1:P:813:ILE:O	1:P:817:GLN:N	2.30	0.61
1:A:623:PHE:CG	1:A:623:PHE:HA	2.36	0.61
1:D:578:HIS:CB	1:D:592:ILE:HD12	2.30	0.61
1:G:148:ARG:NH2	1:G:764:MLY:HH21	2.15	0.61
1:G:278:GLN:HG3	1:G:318:GLY:N	2.15	0.61
1:G:302:MET:HG2	1:G:303:LEU:CD1	2.30	0.61
1:G:797:PHE:CE2	3:I:126:LEU:CG	2.83	0.61
1:J:553:MLY:HE3	4:Y:45:VAL:HG12	1.80	0.61
1:M:548:THR:CB	4:2:48:GLY:HA2	1.93	0.61
1:M:639:GLY:N	4:Z:344:SER:C	2.53	0.61
1:M:795:ARG:C	3:O:35:ARG:CZ	2.69	0.61
1:P:81:ASN:OD1	1:P:96:HIS:HB2	2.00	0.61
1:P:797:PHE:CE1	3:R:146:ILE:CG2	2.83	0.61
4:2:288:ASP:CB	4:4:203:THR:HG21	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:361:GLU:HB3	4:X:369:ILE:HG12	1.82	0.61
1:A:542:PHE:N	4:8:143:TYR:OH	2.33	0.61
1:A:557:GLU:HG3	1:A:557:GLU:O	2.01	0.61
1:A:795:ARG:HH22	3:C:116:GLU:CD	1.93	0.61
1:A:815:CYS:O	2:B:90:GLY:O	2.19	0.61
1:A:827:MLY:HH21	2:B:139:ALA:CB	2.31	0.61
3:C:50:LEU:O	3:C:53:PRO:HD2	2.00	0.61
1:D:725:ARG:HA	1:D:782:MLY:CH2	2.31	0.61
1:G:686:MET:HG3	1:G:691:VAL:HG21	1.83	0.61
1:G:813:ILE:HG22	2:H:128:PHE:CE1	2.36	0.61
1:J:98:HIS:HB3	1:J:100:PRO:CD	2.25	0.61
1:J:217:THR:C	1:J:221:GLN:HG2	2.21	0.61
1:J:520:ALA:O	1:J:524:GLU:HG2	2.00	0.61
1:J:623:PHE:CG	1:J:623:PHE:HA	2.36	0.61
2:K:34:ILE:O	2:K:46:ASP:HB3	2.01	0.61
3:L:63:ILE:HG22	3:L:64:THR:O	2.01	0.61
1:M:81:ASN:OD1	1:M:96:HIS:HB2	2.00	0.61
1:M:520:ALA:O	1:M:524:GLU:HG2	2.00	0.61
1:M:579:PHE:CE1	1:M:581:LEU:HD13	2.35	0.61
1:M:836:PHE:CE1	2:N:160:GLY:N	2.63	0.61
3:O:52:ASN:N	3:O:53:PRO:HD2	2.15	0.61
1:P:217:THR:C	1:P:221:GLN:HG2	2.21	0.61
4:1:167:GLU:CB	4:3:41:GLN:O	2.48	0.61
4:5:361:GLU:HB3	4:5:369:ILE:HG12	1.82	0.61
1:A:210:GLN:O	1:A:211:SER:OG	2.15	0.61
1:A:643:GLY:O	1:A:644:SER:CB	2.48	0.61
1:A:755:HIS:HA	1:A:758:TYR:HE1	1.64	0.61
1:A:798:LEU:HD21	3:C:126:LEU:CD1	2.30	0.61
1:D:217:THR:C	1:D:221:GLN:HG2	2.21	0.61
1:D:800:ARG:HB3	3:F:149:VAL:HG13	1.83	0.61
1:G:557:GLU:HG3	1:G:557:GLU:O	2.01	0.61
1:G:817:GLN:CD	2:H:127:ARG:CB	2.69	0.61
1:M:302:MET:HG2	1:M:303:LEU:CD1	2.30	0.61
1:M:643:GLY:O	1:M:644:SER:CB	2.49	0.61
1:M:686:MET:HG3	1:M:691:VAL:HG21	1.83	0.61
1:P:542:PHE:CB	4:1:143:TYR:HE1	2.13	0.61
1:P:798:LEU:CD1	3:R:126:LEU:HD21	2.31	0.61
1:P:805:ALA:HA	1:P:808:GLU:OE1	2.00	0.61
3:R:50:LEU:O	3:R:53:PRO:HD2	2.00	0.61
4:6:223:PHE:HD2	4:6:312:ARG:NH2	1.99	0.61
4:X:292:ASP:OD1	4:Z:244:ASP:CB	2.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:MET:HG2	1:A:303:LEU:CD1	2.30	0.61
1:A:524:GLU:O	1:A:528:MLY:HB3	2.01	0.61
2:B:117:LEU:CB	2:B:147:ASN:ND2	2.35	0.61
1:D:124:VAL:CG1	1:D:675:ILE:HD13	2.31	0.61
1:D:642:LYS:CD	4:9:340:TRP:CZ3	2.79	0.61
1:G:124:VAL:CG1	1:G:675:ILE:HD13	2.31	0.61
1:G:830:PRO:CG	2:H:67:MET:CE	2.79	0.61
3:I:52:ASN:N	3:I:53:PRO:HD2	2.16	0.61
1:J:124:VAL:CG1	1:J:675:ILE:HD13	2.31	0.61
1:J:686:MET:HG3	1:J:691:VAL:HG21	1.83	0.61
1:J:818:TYR:CG	2:K:127:ARG:NH1	2.69	0.61
1:M:154:HIS:CE1	1:M:156:PHE:CD2	2.88	0.61
1:M:524:GLU:O	1:M:528:MLY:HB3	2.01	0.61
1:M:725:ARG:CZ	3:O:84:PHE:CE1	2.84	0.61
2:N:34:ILE:O	2:N:46:ASP:HB3	2.01	0.61
3:O:63:ILE:HG22	3:O:64:THR:O	2.01	0.61
1:P:520:ALA:O	1:P:524:GLU:HG2	2.00	0.61
1:P:557:GLU:HG3	1:P:557:GLU:O	2.00	0.61
1:P:623:PHE:CG	1:P:623:PHE:HA	2.35	0.61
2:Q:114:LYS:HG3	2:Q:146:GLY:HA2	1.82	0.61
1:A:95:THR:HG23	1:A:96:HIS:ND1	2.16	0.61
1:A:520:ALA:O	1:A:524:GLU:HG2	2.00	0.61
1:A:823:PHE:HE1	2:B:160:GLY:C	2.02	0.61
1:D:98:HIS:HB3	1:D:100:PRO:CD	2.25	0.61
1:D:141:LEU:H	1:D:141:LEU:HD12	1.64	0.61
1:D:553:MLY:NZ	4:W:45:VAL:HG13	2.16	0.61
1:D:686:MET:HG3	1:D:691:VAL:HG21	1.83	0.61
1:G:579:PHE:CE1	1:G:581:LEU:HD13	2.35	0.61
1:G:639:GLY:N	4:V:344:SER:C	2.54	0.61
1:G:643:GLY:O	1:G:644:SER:CB	2.48	0.61
1:J:541:MET:HE2	4:W:346:LEU:HD12	1.81	0.61
2:K:130:PRO:HA	2:K:133:ILE:HD12	1.83	0.61
3:L:52:ASN:N	3:L:53:PRO:HD2	2.15	0.61
1:M:800:ARG:O	3:O:149:VAL:HG21	2.01	0.61
1:P:524:GLU:O	1:P:528:MLY:HB3	2.01	0.61
1:P:665:ARG:C	1:P:667:THR:H	2.05	0.61
3:R:24:LYS:HB3	3:R:63:ILE:H	1.64	0.61
3:R:63:ILE:HG22	3:R:64:THR:O	2.01	0.61
4:1:173:HIS:HB3	4:2:267:ILE:HA	1.82	0.61
4:2:287:ILE:HD13	4:4:203:THR:N	2.13	0.61
4:X:287:ILE:HB	4:Z:205:GLU:CG	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:ASN:OD1	1:A:96:HIS:HB2	2.00	0.60
1:A:217:THR:C	1:A:221:GLN:HG2	2.21	0.60
1:A:579:PHE:CE1	1:A:581:LEU:HD13	2.35	0.60
1:D:541:MET:HE2	4:9:346:LEU:HD12	1.82	0.60
1:D:783:LEU:O	1:D:787:ILE:N	2.27	0.60
1:G:166:MET:HE3	1:G:254:PHE:HD2	1.66	0.60
1:G:542:PHE:N	4:V:143:TYR:OH	2.33	0.60
1:G:623:PHE:CG	1:G:623:PHE:HA	2.36	0.60
1:J:99:GLU:OE2	1:J:696:ARG:NH2	2.30	0.60
3:L:50:LEU:O	3:L:53:PRO:HD2	2.00	0.60
3:L:52:ASN:HB2	3:L:53:PRO:CD	2.28	0.60
1:M:95:THR:CG2	1:M:773:GLY:HA3	2.18	0.60
1:M:530:MET:CG	4:Z:354:GLN:HG3	2.30	0.60
1:M:732:ILE:HG22	1:M:747:LEU:CD1	1.55	0.60
1:M:769:ALA:C	1:M:771:LEU:H	2.03	0.60
1:P:40:VAL:HG22	1:P:41:VAL:N	2.16	0.60
1:P:124:VAL:CG1	1:P:675:ILE:HD13	2.31	0.60
1:P:831:TRP:CZ2	2:Q:47:LEU:HD21	2.30	0.60
4:2:287:ILE:CG2	4:4:202:THR:C	2.68	0.60
1:A:800:ARG:HH22	3:C:40:ASN:HD21	0.63	0.60
2:B:34:ILE:O	2:B:46:ASP:HB3	2.01	0.60
1:D:643:GLY:O	1:D:644:SER:CB	2.48	0.60
1:G:95:THR:HG23	1:G:96:HIS:ND1	2.16	0.60
1:J:634:GLY:N	4:W:25:ASP:O	2.31	0.60
1:M:95:THR:HG23	1:M:96:HIS:ND1	2.17	0.60
1:M:217:THR:C	1:M:221:GLN:HG2	2.21	0.60
1:M:665:ARG:C	1:M:667:THR:H	2.05	0.60
1:M:837:MLY:O	1:M:840:PRO:HD2	2.01	0.60
1:P:686:MET:HG3	1:P:691:VAL:HG21	1.83	0.60
4:3:223:PHE:HD2	4:3:312:ARG:NH2	1.99	0.60
4:4:361:GLU:HB3	4:4:369:ILE:HG12	1.82	0.60
4:9:223:PHE:HD2	4:9:312:ARG:NH2	1.99	0.60
1:A:38:VAL:HB	1:A:52:ILE:HD11	1.84	0.60
1:A:505:MLY:HB3	1:A:762:HIS:N	2.15	0.60
1:A:546:THR:HG22	1:A:547:ASP:N	2.16	0.60
1:D:578:HIS:CD2	1:D:591:ASN:HA	2.31	0.60
1:D:732:ILE:HG21	1:D:747:LEU:HD11	0.73	0.60
1:J:735:GLY:O	1:J:743:ALA:HA	1.94	0.60
4:W:223:PHE:HD2	4:W:312:ARG:NH2	1.99	0.60
1:A:93:MET:CE	1:A:715:VAL:CG1	2.60	0.60
1:A:124:VAL:CG1	1:A:675:ILE:HD13	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:124:VAL:HG13	1:A:675:ILE:HD13	1.84	0.60
1:A:154:HIS:CE1	1:A:156:PHE:CD2	2.88	0.60
1:A:292:MET:HE3	1:A:309:PRO:HA	1.82	0.60
1:G:38:VAL:HB	1:G:52:ILE:HD11	1.83	0.60
1:G:91:MET:HE3	1:G:119:SER:HB2	1.83	0.60
1:G:124:VAL:HG13	1:G:675:ILE:HD13	1.83	0.60
1:G:553:MLY:HB2	4:X:46:GLY:HA3	1.82	0.60
2:H:130:PRO:HA	2:H:133:ILE:HD12	1.84	0.60
3:I:63:ILE:HG22	3:I:64:THR:O	2.01	0.60
1:J:81:ASN:OD1	1:J:96:HIS:HB2	2.00	0.60
1:P:156:PHE:CD1	1:P:195:TYR:CD1	2.90	0.60
1:P:817:GLN:CB	2:Q:127:ARG:CD	2.59	0.60
4:4:287:ILE:H	4:4:287:ILE:HD12	1.67	0.60
1:A:642:LYS:CD	4:8:340:TRP:CZ3	2.79	0.60
1:A:819:ASN:OD1	2:B:91:ALA:CA	2.46	0.60
1:D:156:PHE:CD1	1:D:195:TYR:CD1	2.90	0.60
1:D:530:MET:CG	4:9:354:GLN:HG3	2.30	0.60
1:D:546:THR:HG22	1:D:547:ASP:N	2.17	0.60
1:D:665:ARG:C	1:D:667:THR:H	2.05	0.60
1:D:727:LEU:CG	1:D:782:MLY:HG2	2.14	0.60
1:D:837:MLY:O	1:D:840:PRO:HD2	2.01	0.60
2:E:34:ILE:O	2:E:46:ASP:HB3	2.01	0.60
1:G:7:MET:HE3	1:G:14:ALA:HB1	1.84	0.60
1:J:599:ASN:CB	1:J:649:VAL:HB	2.32	0.60
2:K:114:LYS:HG3	2:K:146:GLY:HA2	1.82	0.60
1:M:38:VAL:HB	1:M:52:ILE:HD11	1.83	0.60
1:M:99:GLU:OE2	1:M:696:ARG:NH2	2.30	0.60
1:M:124:VAL:HG13	1:M:675:ILE:HD13	1.84	0.60
1:M:724:TYR:CZ	1:M:775:LEU:HB3	2.36	0.60
1:P:60:VAL:O	1:P:71:THR:HA	2.02	0.60
1:P:786:ILE:O	1:P:787:ILE:C	2.39	0.60
2:Q:34:ILE:O	2:Q:46:ASP:HB3	2.01	0.60
4:V:223:PHE:HD2	4:V:312:ARG:NH2	1.99	0.60
1:A:60:VAL:O	1:A:71:THR:HA	2.02	0.60
1:D:38:VAL:HB	1:D:52:ILE:HD11	1.84	0.60
1:D:524:GLU:O	1:D:528:MLY:HB3	2.01	0.60
1:D:541:MET:SD	4:9:346:LEU:O	2.48	0.60
1:D:550:PHE:CE2	1:D:592:ILE:HG23	2.37	0.60
1:D:732:ILE:HG23	1:D:747:LEU:CB	1.84	0.60
1:G:60:VAL:O	1:G:71:THR:HA	2.02	0.60
1:G:578:HIS:CD2	1:G:591:ASN:HA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:34:ILE:O	2:H:46:ASP:HB3	2.01	0.60
1:J:542:PHE:CB	4:W:143:TYR:HE1	2.13	0.60
1:J:567:LYS:HZ3	4:Y:92:ASN:ND2	1.95	0.60
1:M:40:VAL:HG22	1:M:41:VAL:N	2.16	0.60
1:M:821:ARG:HH12	2:N:127:ARG:NE	2.00	0.60
4:1:244:ASP:HB2	4:Y:292:ASP:N	2.17	0.60
4:2:287:ILE:H	4:2:287:ILE:HD12	1.67	0.60
4:5:287:ILE:H	4:5:287:ILE:HD12	1.67	0.60
4:7:223:PHE:HD2	4:7:312:ARG:NH2	1.99	0.60
1:A:665:ARG:C	1:A:667:THR:H	2.05	0.60
3:C:52:ASN:N	3:C:53:PRO:CD	2.65	0.60
1:D:40:VAL:HG22	1:D:41:VAL:N	2.16	0.60
1:D:732:ILE:HD13	1:D:782:MLY:CH2	2.31	0.60
1:G:40:VAL:HG22	1:G:41:VAL:N	2.16	0.60
1:J:40:VAL:HG22	1:J:41:VAL:N	2.16	0.60
1:J:60:VAL:O	1:J:71:THR:HA	2.02	0.60
1:J:91:MET:HE3	1:J:119:SER:HB2	1.84	0.60
1:M:60:VAL:O	1:M:71:THR:HA	2.02	0.60
1:M:124:VAL:CG1	1:M:675:ILE:HD13	2.31	0.60
1:P:550:PHE:CE2	1:P:592:ILE:HG23	2.37	0.60
1:P:732:ILE:CG2	1:P:747:LEU:HD11	1.26	0.60
1:P:786:ILE:HB	1:P:787:ILE:H	1.65	0.60
2:Q:117:LEU:HD11	2:Q:147:ASN:HB3	1.75	0.60
2:Q:130:PRO:HA	2:Q:133:ILE:HD12	1.84	0.60
4:2:223:PHE:HD2	4:2:312:ARG:NH2	1.99	0.60
4:6:287:ILE:H	4:6:287:ILE:HD12	1.67	0.60
1:A:7:MET:HE3	1:A:14:ALA:HB1	1.84	0.60
1:A:40:VAL:HG22	1:A:41:VAL:N	2.16	0.60
1:A:542:PHE:CD1	4:8:143:TYR:CE1	2.90	0.60
1:D:542:PHE:CB	4:9:143:TYR:HE1	2.13	0.60
1:D:599:ASN:CB	1:D:649:VAL:HB	2.32	0.60
1:G:524:GLU:O	1:G:528:MLY:HB3	2.01	0.60
1:G:536:LEU:HD13	1:G:550:PHE:CE1	2.37	0.60
1:G:546:THR:HG22	1:G:547:ASP:N	2.17	0.60
1:G:721:LYS:HG2	1:G:736:GLN:CD	1.86	0.60
1:J:38:VAL:HB	1:J:52:ILE:HD11	1.83	0.60
1:J:156:PHE:CD1	1:J:195:TYR:CD1	2.90	0.60
1:J:665:ARG:C	1:J:667:THR:H	2.05	0.60
1:J:756:THR:HA	1:J:776:GLU:OE1	2.01	0.60
1:M:542:PHE:N	4:Z:143:TYR:OH	2.32	0.60
1:M:578:HIS:CD2	1:M:591:ASN:HA	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:3:SER:HG	3:O:5:ALA:N	1.99	0.60
1:P:95:THR:HG23	1:P:96:HIS:ND1	2.16	0.60
1:P:599:ASN:CB	1:P:649:VAL:HB	2.32	0.60
4:3:287:ILE:H	4:3:287:ILE:HD12	1.67	0.60
4:3:324:THR:CG2	4:5:243:PRO:O	2.49	0.60
4:5:223:PHE:HD2	4:5:312:ARG:NH2	1.99	0.60
4:Z:287:ILE:HD12	4:Z:287:ILE:H	1.67	0.60
1:A:553:MLY:NZ	4:V:45:VAL:HG13	2.16	0.60
1:A:823:PHE:CE1	2:B:156:VAL:CG1	2.85	0.60
2:B:130:PRO:HA	2:B:133:ILE:HD12	1.84	0.60
1:J:792:ALA:HB2	3:L:42:THR:HG23	0.60	0.60
1:J:798:LEU:CG	3:L:126:LEU:HD11	2.29	0.60
3:L:52:ASN:N	3:L:53:PRO:CD	2.65	0.60
2:N:130:PRO:HA	2:N:133:ILE:HD12	1.83	0.60
1:P:38:VAL:HB	1:P:52:ILE:HD11	1.83	0.60
1:P:538:GLU:HA	4:1:349:LEU:CG	2.28	0.60
1:P:791:GLN:OE1	3:R:116:GLU:HG3	2.02	0.60
1:P:829:TRP:HZ3	2:Q:84:PHE:CE2	2.19	0.60
4:8:287:ILE:H	4:8:287:ILE:HD12	1.67	0.60
1:D:81:ASN:OD1	1:D:96:HIS:HB2	2.00	0.60
1:D:95:THR:HG23	1:D:96:HIS:ND1	2.17	0.60
1:D:623:PHE:CG	1:D:623:PHE:HA	2.36	0.60
1:G:530:MET:HA	4:V:354:GLN:CB	2.29	0.60
1:P:718:ALA:HB1	3:R:85:GLU:OE1	2.01	0.60
1:P:793:ARG:HD3	3:R:40:ASN:ND2	2.17	0.60
4:V:286:ASP:OD2	4:X:203:THR:CG2	2.47	0.60
1:A:709:LYS:O	1:A:710:GLY:N	2.34	0.59
1:A:735:GLY:C	1:A:743:ALA:HB1	1.84	0.59
1:A:837:MLY:O	1:A:840:PRO:HD2	2.01	0.59
1:D:7:MET:HE3	1:D:14:ALA:HB1	1.83	0.59
1:D:210:GLN:O	1:D:211:SER:OG	2.15	0.59
1:D:798:LEU:HD21	3:F:122:GLU:HB3	1.83	0.59
1:J:7:MET:HE3	1:J:14:ALA:HB1	1.83	0.59
1:J:530:MET:CG	4:W:354:GLN:HG3	2.30	0.59
1:J:784:ALA:O	1:J:788:THR:HB	2.02	0.59
1:J:821:ARG:HH22	2:K:127:ARG:CG	2.00	0.59
1:M:755:HIS:HA	1:M:758:TYR:HE1	1.64	0.59
1:P:541:MET:SD	4:1:346:LEU:O	2.48	0.59
3:R:52:ASN:N	3:R:53:PRO:CD	2.65	0.59
4:3:290:ARG:NE	4:5:202:THR:HG21	2.15	0.59
4:V:286:ASP:OD1	4:X:202:THR:HB	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:815:CYS:SG	2:B:92:ASP:CG	2.81	0.59
1:D:230:GLU:O	1:D:234:ASN:HB2	2.02	0.59
1:D:542:PHE:CD1	4:9:143:TYR:CE1	2.90	0.59
3:F:52:ASN:N	3:F:53:PRO:CD	2.65	0.59
1:G:837:MLY:O	1:G:840:PRO:HD2	2.02	0.59
1:J:84:MLY:HH12	1:J:720:PHE:HD1	1.61	0.59
1:J:95:THR:HG23	1:J:96:HIS:ND1	2.17	0.59
1:J:542:PHE:CD1	4:W:143:TYR:CE1	2.90	0.59
1:J:837:MLY:O	1:J:840:PRO:HD2	2.01	0.59
1:M:292:MET:HE3	1:M:309:PRO:CA	2.31	0.59
1:M:541:MET:SD	4:Z:346:LEU:O	2.48	0.59
1:M:709:LYS:CA	1:M:710:GLY:N	2.65	0.59
1:P:542:PHE:CD1	4:1:143:TYR:CE1	2.91	0.59
4:Y:223:PHE:HD2	4:Y:312:ARG:NH2	1.99	0.59
1:A:599:ASN:CB	1:A:649:VAL:HB	2.32	0.59
1:A:639:GLY:N	4:8:344:SER:C	2.54	0.59
1:A:817:GLN:HG3	2:B:127:ARG:HB3	1.82	0.59
2:B:144:VAL:CG1	2:B:153:ILE:HD13	2.19	0.59
1:D:127:ASN:ND2	1:D:128:PRO:HD2	2.16	0.59
1:D:295:MLY:HG3	1:D:332:MET:HE1	1.83	0.59
3:F:63:ILE:HG22	3:F:64:THR:O	2.01	0.59
1:G:156:PHE:CD1	1:G:195:TYR:CD1	2.90	0.59
1:G:787:ILE:O	1:G:790:THR:N	2.35	0.59
1:J:93:MET:SD	1:J:715:VAL:HA	2.42	0.59
3:L:102:VAL:HG11	3:L:107:LEU:HB2	1.85	0.59
1:M:542:PHE:CD1	4:Z:143:TYR:CE1	2.91	0.59
3:O:52:ASN:N	3:O:53:PRO:CD	2.65	0.59
1:P:530:MET:CG	4:1:354:GLN:HG3	2.30	0.59
1:A:408:VAL:C	1:A:636:LYS:CG	2.48	0.59
1:A:795:ARG:CD	3:C:35:ARG:NH1	2.45	0.59
1:A:813:ILE:CD1	2:B:128:PHE:CE1	2.77	0.59
1:D:507:GLY:O	1:D:761:GLY:CA	2.49	0.59
1:D:712:PRO:CA	1:D:771:LEU:HD22	2.31	0.59
1:D:735:GLY:O	1:D:743:ALA:HA	1.94	0.59
1:D:787:ILE:O	1:D:790:THR:N	2.35	0.59
1:G:599:ASN:CB	1:G:649:VAL:HB	2.31	0.59
1:G:612:GLN:HE22	1:G:627:GLY:HA2	1.66	0.59
1:J:124:VAL:HG13	1:J:675:ILE:HD13	1.84	0.59
1:J:135:TYR:N	1:J:135:TYR:CD1	2.69	0.59
1:M:84:MLY:CB	1:M:780:ASP:OD2	2.50	0.59
1:M:549:SER:OG	1:M:550:PHE:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:797:PHE:HD1	3:O:146:ILE:O	1.80	0.59
1:M:800:ARG:O	3:O:149:VAL:CG2	2.51	0.59
3:O:102:VAL:HG11	3:O:107:LEU:HB2	1.85	0.59
1:P:135:TYR:N	1:P:135:TYR:CD1	2.70	0.59
1:P:722:GLN:HE21	3:R:85:GLU:CA	2.15	0.59
4:2:63:GLY:N	4:Z:288:ASP:CB	2.66	0.59
4:X:223:PHE:HD2	4:X:312:ARG:NH2	1.99	0.59
1:A:93:MET:C	1:A:713:SER:HB3	2.23	0.59
1:A:149:GLN:OE1	1:A:716:LEU:CG	2.50	0.59
1:A:481:ASN:N	1:A:481:ASN:ND2	2.51	0.59
1:A:536:LEU:HD13	1:A:550:PHE:CE1	2.37	0.59
1:A:646:PHE:CD2	1:A:652:LEU:CD1	2.85	0.59
1:A:783:LEU:O	1:A:787:ILE:N	2.27	0.59
1:A:787:ILE:O	1:A:790:THR:N	2.35	0.59
1:D:60:VAL:O	1:D:71:THR:HA	2.02	0.59
1:D:195:TYR:O	1:D:199:ILE:HG23	2.03	0.59
3:F:52:ASN:HB2	3:F:53:PRO:CD	2.28	0.59
1:G:753:VAL:HA	1:G:780:ASP:CG	2.21	0.59
1:G:796:GLY:N	3:I:35:ARG:NH2	2.50	0.59
1:J:40:VAL:HG22	1:J:41:VAL:H	1.67	0.59
1:J:776:GLU:O	1:J:779:ARG:HB3	2.02	0.59
1:M:49:MLY:HH13	1:M:108:GLU:OE2	2.02	0.59
1:M:156:PHE:CD1	1:M:195:TYR:CD1	2.90	0.59
1:M:723:ARG:CG	1:M:779:ARG:HE	2.15	0.59
1:M:783:LEU:CG	1:M:786:ILE:CD1	2.64	0.59
1:M:787:ILE:O	1:M:790:THR:N	2.35	0.59
1:M:813:ILE:O	1:M:817:GLN:N	2.30	0.59
1:P:127:ASN:ND2	1:P:128:PRO:HD2	2.16	0.59
2:E:163:ALA:C	2:K:21:GLU:HB3	2.22	0.59
1:G:642:LYS:CD	4:V:340:TRP:CZ3	2.80	0.59
1:G:757:GLN:CB	1:G:776:GLU:HG2	2.22	0.59
3:I:52:ASN:N	3:I:53:PRO:CD	2.65	0.59
1:J:116:TYR:HB2	1:J:153:PRO:O	2.03	0.59
1:J:230:GLU:O	1:J:234:ASN:HB2	2.03	0.59
1:J:546:THR:HG22	1:J:547:ASP:N	2.17	0.59
1:J:553:MLY:CH1	4:Y:45:VAL:HG11	2.32	0.59
1:J:801:VAL:HG21	3:L:126:LEU:HD21	1.85	0.59
1:P:7:MET:HE3	1:P:14:ALA:HB1	1.83	0.59
1:P:116:TYR:HB2	1:P:153:PRO:O	2.03	0.59
1:P:817:GLN:OE1	2:Q:127:ARG:HD2	2.02	0.59
1:P:836:PHE:CD1	2:Q:159:HIS:HA	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:287:ILE:H	4:X:287:ILE:HD12	1.67	0.59
1:A:550:PHE:CE2	1:A:592:ILE:HG23	2.37	0.59
3:C:49:ILE:HA	3:C:52:ASN:ND2	2.05	0.59
1:D:831:TRP:HZ3	2:E:34:ILE:HG12	1.68	0.59
1:G:40:VAL:HG22	1:G:41:VAL:H	1.67	0.59
1:G:481:ASN:N	1:G:481:ASN:ND2	2.51	0.59
1:G:665:ARG:C	1:G:667:THR:H	2.05	0.59
1:J:538:GLU:HA	4:W:349:LEU:CG	2.28	0.59
1:J:813:ILE:O	1:J:817:GLN:N	2.30	0.59
1:M:7:MET:HE3	1:M:14:ALA:HB1	1.85	0.59
1:P:549:SER:OG	1:P:550:PHE:N	2.36	0.59
1:P:837:MLY:O	1:P:840:PRO:HD2	2.02	0.59
4:1:223:PHE:HD2	4:1:312:ARG:NH2	1.99	0.59
4:8:223:PHE:HD2	4:8:312:ARG:NH2	1.99	0.59
1:A:48:VAL:HG22	1:A:49:MLY:N	2.18	0.59
1:A:49:MLY:HH13	1:A:108:GLU:OE2	2.03	0.59
1:A:135:TYR:N	1:A:135:TYR:CD1	2.70	0.59
1:A:156:PHE:CD1	1:A:195:TYR:CD1	2.89	0.59
1:A:464:ILE:HG22	1:A:465:ALA:N	2.18	0.59
1:G:48:VAL:HG22	1:G:49:MLY:N	2.18	0.59
1:G:116:TYR:HB2	1:G:153:PRO:O	2.03	0.59
1:J:48:VAL:HG22	1:J:49:MLY:N	2.18	0.59
1:J:550:PHE:CE2	1:J:592:ILE:HG23	2.37	0.59
1:M:116:TYR:HB2	1:M:153:PRO:O	2.03	0.59
1:M:230:GLU:O	1:M:234:ASN:HB2	2.03	0.59
1:P:124:VAL:HG13	1:P:675:ILE:HD13	1.84	0.59
1:P:776:GLU:O	1:P:779:ARG:HB3	2.02	0.59
3:R:102:VAL:HG11	3:R:107:LEU:HB2	1.85	0.59
4:2:63:GLY:CA	4:Z:288:ASP:OD2	2.50	0.59
1:A:642:LYS:CG	4:8:22:ALA:CA	2.81	0.59
1:D:717:TYR:HD1	1:D:744:SER:HG	1.51	0.59
2:E:130:PRO:HA	2:E:133:ILE:HD12	1.84	0.59
1:G:195:TYR:O	1:G:199:ILE:HG23	2.03	0.59
1:G:542:PHE:CD1	4:V:143:TYR:CE1	2.91	0.59
1:G:823:PHE:HE1	2:H:160:GLY:HA2	1.68	0.59
1:J:127:ASN:ND2	1:J:128:PRO:HD2	2.16	0.59
1:J:787:ILE:O	1:J:790:THR:N	2.35	0.59
1:M:91:MET:HE3	1:M:119:SER:HB2	1.84	0.59
1:M:195:TYR:O	1:M:199:ILE:HG23	2.03	0.59
1:M:265:ILE:HG22	1:M:266:GLU:N	2.18	0.59
1:M:599:ASN:CB	1:M:649:VAL:HB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:601:ASP:N	1:M:602:PRO:HD3	2.18	0.59
1:P:48:VAL:HG22	1:P:49:MLY:N	2.18	0.59
3:R:46:ILE:O	3:R:50:LEU:CG	2.47	0.59
1:A:124:VAL:HG13	1:A:675:ILE:CD1	2.33	0.59
1:A:166:MET:HE3	1:A:254:PHE:CD2	2.38	0.59
1:A:576:GLU:CG	1:A:577:ALA:N	2.43	0.59
1:A:629:GLU:HB3	1:A:645:SER:N	2.18	0.59
1:A:836:PHE:CE2	2:B:160:GLY:O	2.56	0.59
1:D:646:PHE:CD2	1:D:652:LEU:CD1	2.85	0.59
1:D:793:ARG:HH21	3:F:147:MET:HE1	1.68	0.59
1:G:99:GLU:OE2	1:G:696:ARG:NH2	2.30	0.59
1:G:141:LEU:O	1:G:144:ARG:HB3	2.03	0.59
1:G:715:VAL:HG11	1:G:720:PHE:HD1	1.68	0.59
1:J:553:MLY:HG3	4:Y:45:VAL:O	2.02	0.59
1:J:769:ALA:HB2	1:J:770:GLY:CA	2.33	0.59
1:M:776:GLU:O	1:M:779:ARG:HB3	2.02	0.59
4:1:110:LEU:HA	4:2:195:GLU:HG3	1.82	0.59
4:4:287:ILE:HG21	4:6:204:ALA:H	1.67	0.59
1:A:94:MET:O	1:A:713:SER:HB3	2.02	0.58
1:A:195:TYR:O	1:A:199:ILE:HG23	2.03	0.58
1:A:715:VAL:HG11	1:A:720:PHE:HD1	1.68	0.58
1:A:776:GLU:O	1:A:779:ARG:HB3	2.03	0.58
1:D:529:PRO:HG3	4:9:353:GLN:OE1	2.03	0.58
1:G:265:ILE:HG22	1:G:266:GLU:N	2.18	0.58
1:G:549:SER:OG	1:G:550:PHE:N	2.36	0.58
1:G:601:ASP:N	1:G:602:PRO:HD3	2.18	0.58
1:J:83:PRO:C	1:J:723:ARG:HH21	2.05	0.58
1:J:195:TYR:O	1:J:199:ILE:HG23	2.03	0.58
1:J:629:GLU:HB3	1:J:645:SER:N	2.18	0.58
1:J:819:ASN:CB	2:K:90:GLY:O	2.51	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:643:GLY:HA2	4:Z:24:ASP:OD1	2.04	0.58
1:M:797:PHE:CD1	3:O:146:ILE:HG22	2.38	0.58
1:P:629:GLU:HB3	1:P:645:SER:N	2.18	0.58
1:P:634:GLY:N	4:1:25:ASP:O	2.31	0.58
1:P:715:VAL:HG11	1:P:720:PHE:HD1	1.68	0.58
1:P:787:ILE:O	1:P:790:THR:N	2.35	0.58
1:P:800:ARG:HB3	3:R:149:VAL:HG21	1.85	0.58
4:2:64:ILE:CG2	4:Z:166:TYR:CE2	2.84	0.58
4:4:223:PHE:HD2	4:4:312:ARG:NH2	1.99	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:287:ILE:HD12	4:7:287:ILE:H	1.67	0.58
1:A:116:TYR:HB2	1:A:153:PRO:O	2.02	0.58
1:A:175:ILE:HA	1:A:670:HIS:O	2.04	0.58
1:A:676:ILE:HG23	1:A:676:ILE:O	2.03	0.58
1:D:124:VAL:HG13	1:D:675:ILE:CD1	2.33	0.58
1:D:715:VAL:HG11	1:D:720:PHE:HD1	1.68	0.58
1:D:776:GLU:O	1:D:779:ARG:HB3	2.03	0.58
1:D:798:LEU:HD12	3:F:126:LEU:HD21	1.84	0.58
1:G:817:GLN:HG3	2:H:128:PHE:CZ	2.38	0.58
2:H:117:LEU:HD11	2:H:147:ASN:HB3	1.75	0.58
1:J:49:MLY:HH13	1:J:108:GLU:OE2	2.02	0.58
1:M:40:VAL:HG22	1:M:41:VAL:H	1.67	0.58
1:M:536:LEU:HD13	1:M:550:PHE:CE1	2.37	0.58
1:M:715:VAL:HG11	1:M:720:PHE:HD1	1.68	0.58
1:P:40:VAL:HG22	1:P:41:VAL:H	1.67	0.58
1:P:141:LEU:O	1:P:144:ARG:HB3	2.04	0.58
1:P:536:LEU:HD13	1:P:550:PHE:CE1	2.37	0.58
1:A:717:TYR:HD1	1:A:744:SER:HG	1.51	0.58
1:A:798:LEU:HD12	3:C:126:LEU:HD21	1.83	0.58
1:D:116:TYR:HB2	1:D:153:PRO:O	2.03	0.58
1:D:175:ILE:HA	1:D:670:HIS:O	2.03	0.58
1:D:536:LEU:HD13	1:D:550:PHE:CE1	2.37	0.58
1:D:543:PRO:HG2	4:9:143:TYR:O	1.98	0.58
1:D:557:GLU:HG3	1:D:557:GLU:O	2.00	0.58
1:D:642:LYS:CG	4:9:22:ALA:CA	2.80	0.58
1:D:813:ILE:O	1:D:817:GLN:N	2.30	0.58
1:G:124:VAL:HG13	1:G:675:ILE:CD1	2.33	0.58
1:G:135:TYR:N	1:G:135:TYR:CD1	2.70	0.58
1:G:776:GLU:O	1:G:779:ARG:HB3	2.03	0.58
1:J:124:VAL:HG13	1:J:675:ILE:CD1	2.33	0.58
1:J:210:GLN:O	1:J:211:SER:OG	2.15	0.58
1:J:536:LEU:HD13	1:J:550:PHE:CE1	2.37	0.58
1:J:710:GLY:O	1:J:772:LEU:HB2	2.03	0.58
1:M:48:VAL:HG22	1:M:49:MLY:N	2.18	0.58
1:M:546:THR:HG22	1:M:547:ASP:N	2.17	0.58
1:M:839:MLY:HH21	2:N:158:THR:CG2	2.33	0.58
1:P:85:TYR:HH	1:P:776:GLU:HG3	1.66	0.58
1:P:230:GLU:O	1:P:234:ASN:HB2	2.03	0.58
1:P:722:GLN:HE21	3:R:86:ASP:N	1.98	0.58
1:P:789:ALA:HA	3:R:81:GLN:CD	2.23	0.58
4:2:63:GLY:CA	4:Z:288:ASP:CB	2.77	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:287:ILE:H	4:9:287:ILE:HD12	1.67	0.58
1:A:230:GLU:O	1:A:234:ASN:HB2	2.03	0.58
1:A:635:GLY:HA3	4:8:334:GLU:CG	2.30	0.58
1:D:40:VAL:HG22	1:D:41:VAL:H	1.67	0.58
1:D:49:MLY:HH13	1:D:108:GLU:OE2	2.02	0.58
1:D:135:TYR:N	1:D:135:TYR:CD1	2.70	0.58
1:D:795:ARG:HB3	3:F:35:ARG:HH22	1.67	0.58
1:D:798:LEU:CD1	3:F:126:LEU:HD21	2.33	0.58
1:G:550:PHE:CE2	1:G:592:ILE:HG23	2.37	0.58
1:G:646:PHE:CD2	1:G:652:LEU:CD1	2.85	0.58
1:J:84:MLY:HH21	1:J:720:PHE:O	2.03	0.58
1:J:254:PHE:CE2	1:J:459:ILE:HD12	2.39	0.58
1:J:534:SER:C	4:W:351:THR:CA	2.47	0.58
1:J:601:ASP:N	1:J:602:PRO:HD3	2.18	0.58
1:J:791:GLN:HE21	3:L:115:GLY:HA3	1.69	0.58
1:J:795:ARG:CZ	3:L:116:GLU:OE2	2.42	0.58
1:M:135:TYR:N	1:M:135:TYR:CD1	2.70	0.58
1:M:646:PHE:CD2	1:M:652:LEU:CD1	2.85	0.58
1:P:195:TYR:O	1:P:199:ILE:HG23	2.03	0.58
1:P:464:ILE:HG22	1:P:465:ALA:N	2.18	0.58
1:P:538:GLU:O	1:P:541:MET:HB2	2.03	0.58
1:P:649:VAL:HA	1:P:649:VAL:HG22	1.80	0.58
1:P:722:GLN:CD	3:R:83:THR:O	2.41	0.58
4:X:287:ILE:HD12	4:Z:205:GLU:HG3	1.80	0.58
1:A:265:ILE:HG22	1:A:266:GLU:N	2.18	0.58
1:A:601:ASP:N	1:A:602:PRO:HD3	2.18	0.58
1:A:794:CYS:O	1:A:798:LEU:N	2.36	0.58
3:C:46:ILE:O	3:C:50:LEU:CG	2.47	0.58
3:C:49:ILE:CA	3:C:52:ASN:ND2	2.53	0.58
1:D:124:VAL:HG13	1:D:675:ILE:HD13	1.84	0.58
1:D:141:LEU:O	1:D:144:ARG:HB3	2.03	0.58
1:G:754:ASP:O	1:G:776:GLU:CD	2.41	0.58
1:G:838:ILE:CG1	2:H:54:MET:CE	2.82	0.58
1:J:549:SER:OG	1:J:550:PHE:N	2.35	0.58
1:J:735:GLY:C	1:J:743:ALA:HB1	1.84	0.58
1:M:124:VAL:HG13	1:M:675:ILE:CD1	2.33	0.58
1:M:218:LEU:N	1:M:221:GLN:HE21	2.01	0.58
1:M:481:ASN:N	1:M:481:ASN:ND2	2.51	0.58
1:M:529:PRO:HG3	4:Z:353:GLN:OE1	2.04	0.58
1:M:817:GLN:HG2	2:N:127:ARG:CG	2.32	0.58
1:M:829:TRP:CE3	2:N:87:LYS:NZ	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:530:MET:HE3	4:1:355:MET:SD	2.43	0.58
1:P:601:ASP:N	1:P:602:PRO:HD3	2.18	0.58
1:A:92:ALA:O	1:A:713:SER:CA	2.46	0.58
1:A:800:ARG:HD2	3:C:149:VAL:O	2.03	0.58
1:A:837:MLY:CH2	2:H:20:ASP:CB	2.57	0.58
1:D:64:THR:HG22	1:D:65:GLU:N	2.19	0.58
1:D:464:ILE:HG22	1:D:465:ALA:N	2.18	0.58
1:G:629:GLU:HB3	1:G:645:SER:N	2.18	0.58
1:G:732:ILE:CG2	1:G:747:LEU:HD11	1.26	0.58
1:G:797:PHE:HE1	3:I:146:ILE:HD13	1.59	0.58
1:G:813:ILE:O	1:G:817:GLN:N	2.30	0.58
1:G:817:GLN:CB	2:H:127:ARG:HD2	2.33	0.58
1:J:676:ILE:HG23	1:J:676:ILE:O	2.03	0.58
1:M:175:ILE:HA	1:M:670:HIS:O	2.03	0.58
1:M:797:PHE:HE2	3:O:126:LEU:HD22	1.69	0.58
1:P:175:ILE:HA	1:P:670:HIS:O	2.04	0.58
1:P:546:THR:HG22	1:P:547:ASP:N	2.17	0.58
1:P:642:LYS:CG	4:1:22:ALA:CA	2.80	0.58
1:P:676:ILE:O	1:P:676:ILE:HG23	2.03	0.58
1:P:719:ASP:N	3:R:85:GLU:HG2	2.17	0.58
1:P:817:GLN:CD	2:Q:127:ARG:CD	2.67	0.58
4:Y:287:ILE:H	4:Y:287:ILE:HD12	1.67	0.58
1:A:149:GLN:HB2	1:A:718:ALA:CA	2.27	0.58
1:A:541:MET:SD	4:8:346:LEU:O	2.48	0.58
1:D:601:ASP:N	1:D:602:PRO:HD3	2.18	0.58
1:D:649:VAL:HA	1:D:649:VAL:HG22	1.80	0.58
1:G:175:ILE:HA	1:G:670:HIS:O	2.04	0.58
1:G:279:LEU:HB3	1:G:280:PRO:HD2	1.86	0.58
1:J:64:THR:HG22	1:J:65:GLU:N	2.19	0.58
1:J:642:LYS:CG	4:W:22:ALA:CA	2.80	0.58
1:J:829:TRP:HZ3	2:K:84:PHE:CE1	2.20	0.58
1:M:767:PHE:CG	1:M:772:LEU:CD2	2.77	0.58
1:M:813:ILE:CG2	2:N:128:PHE:HE1	2.16	0.58
1:M:819:ASN:OD1	2:N:91:ALA:C	2.38	0.58
1:P:64:THR:HG22	1:P:65:GLU:N	2.19	0.58
1:P:534:SER:C	4:1:351:THR:CA	2.47	0.58
1:P:755:HIS:HA	1:P:758:TYR:HE1	1.64	0.58
1:A:506:GLU:CG	1:A:760:PHE:CD1	2.75	0.58
1:A:643:GLY:HA2	4:8:24:ASP:OD1	2.04	0.58
1:D:629:GLU:HB3	1:D:645:SER:N	2.18	0.58
1:D:639:GLY:N	4:9:344:SER:C	2.54	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:725:ARG:CA	1:D:782:MLY:HH22	2.29	0.58
1:D:831:TRP:CZ3	2:E:34:ILE:HG12	2.39	0.58
1:G:49:MLY:HH13	1:G:108:GLU:OE2	2.02	0.58
1:G:754:ASP:HB2	1:G:776:GLU:CG	2.32	0.58
1:J:481:ASN:N	1:J:481:ASN:ND2	2.51	0.58
1:J:561:LYS:HE3	4:Y:48:GLY:CA	2.28	0.58
1:J:567:LYS:HZ2	4:Y:92:ASN:HA	1.67	0.58
1:J:838:ILE:CG1	2:K:54:MET:HE1	2.34	0.58
1:M:464:ILE:HG22	1:M:465:ALA:N	2.18	0.58
1:M:538:GLU:O	1:M:541:MET:HB2	2.03	0.58
1:M:804:ARG:O	1:M:808:GLU:CB	2.52	0.58
1:P:568:PRO:HG3	1:P:578:HIS:H	1.69	0.58
1:A:40:VAL:HG22	1:A:41:VAL:H	1.67	0.58
1:A:141:LEU:O	1:A:144:ARG:HB3	2.03	0.58
1:A:568:PRO:HG3	1:A:578:HIS:H	1.69	0.58
1:A:707:CYS:SG	1:A:714:ARG:NH1	2.77	0.58
1:A:813:ILE:O	1:A:816:ILE:N	2.37	0.58
3:C:52:ASN:HB2	3:C:53:PRO:CD	2.28	0.58
1:D:265:ILE:HG22	1:D:266:GLU:N	2.18	0.58
1:D:418:THR:HG22	1:D:419:VAL:H	1.69	0.58
3:F:49:ILE:HA	3:F:52:ASN:ND2	2.05	0.58
3:I:52:ASN:HB2	3:I:53:PRO:CD	2.28	0.58
1:J:538:GLU:O	1:J:541:MET:HB2	2.03	0.58
1:P:124:VAL:HG13	1:P:675:ILE:CD1	2.33	0.58
1:P:418:THR:HG22	1:P:419:VAL:H	1.69	0.58
1:P:767:PHE:CB	1:P:772:LEU:CG	2.81	0.58
1:P:803:TYR:O	1:P:807:VAL:N	2.37	0.58
1:P:806:MET:HA	1:P:809:ARG:HD2	1.84	0.58
1:P:834:LEU:HD12	2:Q:51:PHE:HE1	1.63	0.58
4:1:287:ILE:H	4:1:287:ILE:HD12	1.67	0.58
1:A:529:PRO:HG3	4:8:353:GLN:OE1	2.03	0.58
1:A:707:CYS:HA	1:A:714:ARG:HH22	1.67	0.58
1:A:813:ILE:O	1:A:817:GLN:N	2.30	0.58
2:B:112:ILE:C	2:B:147:ASN:O	2.42	0.58
1:D:599:ASN:CG	1:D:649:VAL:HB	2.25	0.58
1:D:676:ILE:HG23	1:D:676:ILE:O	2.03	0.58
3:F:49:ILE:CA	3:F:52:ASN:ND2	2.53	0.58
1:G:218:LEU:N	1:G:221:GLN:HE21	2.01	0.58
1:G:230:GLU:O	1:G:234:ASN:HB2	2.03	0.58
1:G:418:THR:HG22	1:G:419:VAL:H	1.69	0.58
1:G:676:ILE:HG23	1:G:676:ILE:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:795:ARG:N	3:I:118:MET:HE3	2.19	0.58
3:I:102:VAL:HG23	3:I:139:TYR:CD1	2.39	0.58
1:J:561:LYS:CE	4:Y:48:GLY:CA	2.82	0.58
1:J:646:PHE:CD2	1:J:652:LEU:CD1	2.85	0.58
1:J:715:VAL:HG11	1:J:720:PHE:HD1	1.68	0.58
1:M:279:LEU:HB3	1:M:280:PRO:HD2	1.86	0.58
1:P:767:PHE:CD2	1:P:772:LEU:HD21	2.39	0.58
2:Q:144:VAL:CG1	2:Q:153:ILE:HD13	2.19	0.58
1:A:409:GLY:HA3	4:8:333:PRO:CD	2.34	0.57
3:C:102:VAL:HG11	3:C:107:LEU:HB2	1.85	0.57
1:G:202:SER:CA	1:G:207:LYS:HE3	2.27	0.57
1:G:568:PRO:HG3	1:G:578:HIS:H	1.69	0.57
1:G:643:GLY:HA2	4:V:24:ASP:OD1	2.04	0.57
1:J:28:GLN:HG2	1:J:723:ARG:NH2	2.18	0.57
1:J:279:LEU:HB3	1:J:280:PRO:HD2	1.86	0.57
1:J:784:ALA:O	1:J:788:THR:CB	2.52	0.57
1:M:322:VAL:HG11	1:M:325:ILE:HD11	1.86	0.57
1:M:813:ILE:HG23	2:N:128:PHE:CZ	2.39	0.57
1:P:49:MLY:HH13	1:P:108:GLU:OE2	2.02	0.57
1:P:218:LEU:N	1:P:221:GLN:HE21	2.01	0.57
1:P:279:LEU:HB3	1:P:280:PRO:HD2	1.86	0.57
1:P:767:PHE:CG	1:P:772:LEU:HD13	2.33	0.57
1:A:707:CYS:CA	1:A:714:ARG:HH22	2.16	0.57
1:D:481:ASN:N	1:D:481:ASN:ND2	2.51	0.57
1:D:530:MET:CA	4:9:354:GLN:HB3	2.34	0.57
1:D:800:ARG:HB3	3:F:149:VAL:HG22	1.86	0.57
1:G:538:GLU:O	1:G:541:MET:HB2	2.04	0.57
1:G:813:ILE:O	1:G:816:ILE:N	2.37	0.57
1:J:529:PRO:HG3	4:W:353:GLN:OE1	2.04	0.57
1:J:599:ASN:CG	1:J:649:VAL:HB	2.25	0.57
1:M:747:LEU:O	1:M:747:LEU:HD23	2.05	0.57
1:P:265:ILE:HG22	1:P:266:GLU:N	2.18	0.57
1:P:717:TYR:HD1	1:P:744:SER:HG	1.50	0.57
4:1:167:GLU:CD	4:3:41:GLN:O	2.42	0.57
4:1:204:ALA:HB3	4:Y:288:ASP:HB2	1.85	0.57
1:A:279:LEU:HB3	1:A:280:PRO:HD2	1.86	0.57
1:A:322:VAL:HG11	1:A:325:ILE:HD11	1.86	0.57
1:D:549:SER:OG	1:D:550:PHE:N	2.36	0.57
1:D:568:PRO:HG3	1:D:578:HIS:H	1.69	0.57
1:G:557:GLU:HB2	4:X:47:MET:O	2.04	0.57
1:M:127:ASN:ND2	1:M:128:PRO:HD2	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:409:GLY:HA3	4:Z:333:PRO:CD	2.34	0.57
1:M:649:VAL:HA	1:M:649:VAL:HG22	1.80	0.57
1:P:254:PHE:CE2	1:P:459:ILE:HD12	2.39	0.57
1:P:599:ASN:CG	1:P:649:VAL:HB	2.25	0.57
4:2:42:GLY:HA2	4:Z:167:GLU:OE1	1.97	0.57
4:W:286:ASP:OD1	4:Y:203:THR:HG22	2.04	0.57
1:A:97:LEU:HD22	1:A:712:PRO:HB2	1.83	0.57
1:A:612:GLN:HE22	1:A:627:GLY:HA2	1.66	0.57
1:D:254:PHE:CE2	1:D:459:ILE:HD12	2.39	0.57
1:D:813:ILE:O	1:D:816:ILE:N	2.37	0.57
1:G:254:PHE:CE2	1:G:459:ILE:HD12	2.39	0.57
1:G:464:ILE:HG22	1:G:465:ALA:N	2.18	0.57
1:J:464:ILE:HG22	1:J:465:ALA:N	2.18	0.57
1:J:630:ALA:CA	4:W:25:ASP:OD2	2.53	0.57
1:J:800:ARG:O	3:L:149:VAL:HG21	2.05	0.57
3:L:102:VAL:HG23	3:L:139:TYR:CD1	2.39	0.57
1:M:82:PRO:HD2	1:M:85:TYR:CD2	2.40	0.57
1:M:173:GLN:C	1:M:667:THR:HG23	2.25	0.57
1:P:630:ALA:CA	4:1:25:ASP:OD2	2.53	0.57
1:P:646:PHE:CD2	1:P:652:LEU:CD1	2.85	0.57
1:P:798:LEU:CD1	3:R:126:LEU:CD2	2.83	0.57
3:R:49:ILE:HA	3:R:52:ASN:ND2	2.06	0.57
4:2:287:ILE:HB	4:4:203:THR:CA	2.33	0.57
4:W:285:CYS:O	4:Y:202:THR:CG2	2.52	0.57
1:A:173:GLN:C	1:A:667:THR:HG23	2.25	0.57
1:A:218:LEU:N	1:A:221:GLN:HE21	2.01	0.57
1:A:502:GLU:HG2	1:A:764:MLY:O	2.03	0.57
1:D:48:VAL:HG22	1:D:49:MLY:N	2.18	0.57
1:D:218:LEU:N	1:D:221:GLN:HE21	2.01	0.57
1:D:541:MET:HG2	4:9:345:ILE:CG2	2.35	0.57
1:D:769:ALA:C	1:D:774:LEU:CB	2.67	0.57
1:G:173:GLN:C	1:G:667:THR:HG23	2.25	0.57
1:G:634:GLY:N	4:V:25:ASP:O	2.31	0.57
1:G:677:PRO:HB2	1:G:678:ASN:ND2	2.20	0.57
3:I:102:VAL:HG11	3:I:107:LEU:HB2	1.85	0.57
1:J:510:TRP:CZ2	1:J:772:LEU:HD11	2.39	0.57
1:J:530:MET:CA	4:W:354:GLN:HB3	2.35	0.57
1:J:568:PRO:HG3	1:J:578:HIS:H	1.69	0.57
1:J:649:VAL:HA	1:J:649:VAL:HG22	1.80	0.57
1:J:791:GLN:NE2	3:L:115:GLY:HA3	2.18	0.57
1:J:794:CYS:O	1:J:798:LEU:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:141:LEU:O	1:M:144:ARG:HB3	2.03	0.57
1:M:202:SER:CA	1:M:207:LYS:HE3	2.27	0.57
1:P:409:GLY:HA3	4:1:333:PRO:CD	2.35	0.57
1:P:529:PRO:HG3	4:1:353:GLN:OE1	2.04	0.57
1:P:797:PHE:CE2	3:R:146:ILE:HG23	2.38	0.57
1:P:813:ILE:O	1:P:816:ILE:N	2.37	0.57
4:1:204:ALA:HB3	4:Y:286:ASP:OD2	2.03	0.57
1:A:127:ASN:ND2	1:A:128:PRO:HD2	2.16	0.57
1:A:549:SER:OG	1:A:550:PHE:N	2.36	0.57
1:A:677:PRO:HB2	1:A:678:ASN:ND2	2.20	0.57
2:E:163:ALA:O	2:K:21:GLU:CA	2.53	0.57
3:F:102:VAL:HG11	3:F:107:LEU:HB2	1.85	0.57
1:G:64:THR:HG22	1:G:65:GLU:N	2.19	0.57
1:G:541:MET:SD	4:V:346:LEU:O	2.48	0.57
1:J:265:ILE:HG22	1:J:266:GLU:N	2.18	0.57
1:J:710:GLY:C	1:J:772:LEU:CD2	2.72	0.57
1:M:541:MET:HG2	4:Z:345:ILE:CG2	2.35	0.57
1:P:818:TYR:CG	2:Q:127:ARG:NH1	2.69	0.57
4:1:110:LEU:HB3	4:2:195:GLU:HB2	1.87	0.57
1:A:64:THR:HG22	1:A:65:GLU:N	2.19	0.57
1:A:818:TYR:HB2	2:B:90:GLY:HA3	0.64	0.57
2:B:144:VAL:HG12	2:B:153:ILE:HD11	1.75	0.57
1:D:279:LEU:HB3	1:D:280:PRO:HD2	1.86	0.57
1:J:643:GLY:HA2	4:W:24:ASP:OD1	2.03	0.57
1:M:64:THR:HG22	1:M:65:GLU:N	2.19	0.57
1:M:817:GLN:CB	2:N:127:ARG:HH11	2.15	0.57
3:O:52:ASN:HB2	3:O:53:PRO:CD	2.28	0.57
4:2:41:GLN:O	4:Z:167:GLU:HB3	2.04	0.57
1:A:530:MET:CA	4:8:354:GLN:HB3	2.34	0.57
1:D:409:GLY:HA3	4:9:333:PRO:CD	2.35	0.57
1:D:823:PHE:CD1	2:E:160:GLY:HA3	2.38	0.57
1:G:409:GLY:HA3	4:V:333:PRO:CD	2.35	0.57
1:G:755:HIS:N	1:G:779:ARG:NE	2.40	0.57
1:G:795:ARG:CD	3:I:116:GLU:OE2	2.52	0.57
1:J:141:LEU:O	1:J:144:ARG:HB3	2.03	0.57
1:J:175:ILE:HA	1:J:670:HIS:O	2.03	0.57
1:J:409:GLY:HA3	4:W:333:PRO:CD	2.35	0.57
1:J:541:MET:HG2	4:W:345:ILE:CG2	2.35	0.57
1:J:769:ALA:HB3	1:J:770:GLY:HA3	1.86	0.57
1:J:783:LEU:O	1:J:787:ILE:CB	2.52	0.57
2:K:140:PHE:O	2:K:141:PRO:C	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:544:LYS:NZ	4:2:45:VAL:CG2	2.68	0.57
1:P:541:MET:HG2	4:1:345:ILE:CG2	2.35	0.57
1:P:831:TRP:NE1	2:Q:67:MET:HB3	2.15	0.57
4:Z:223:PHE:HD2	4:Z:312:ARG:NH2	1.99	0.57
1:A:82:PRO:HD2	1:A:85:TYR:CD2	2.40	0.57
1:A:149:GLN:CB	1:A:718:ALA:CA	2.81	0.57
1:A:498:LEU:HD21	1:A:764:MLY:CH2	2.26	0.57
1:A:538:GLU:O	1:A:541:MET:HB2	2.04	0.57
1:A:747:LEU:HD23	1:A:747:LEU:O	2.04	0.57
1:D:538:GLU:O	1:D:541:MET:HB2	2.04	0.57
1:D:798:LEU:HD13	3:F:126:LEU:CD1	2.22	0.57
1:G:579:PHE:CD2	1:G:592:ILE:HD11	2.39	0.57
1:J:338:ILE:HG21	1:J:348:MLY:HB3	1.87	0.57
1:J:813:ILE:O	1:J:816:ILE:N	2.37	0.57
1:M:418:THR:HG22	1:M:419:VAL:H	1.69	0.57
1:M:676:ILE:O	1:M:676:ILE:HG23	2.03	0.57
1:M:677:PRO:HB2	1:M:678:ASN:ND2	2.20	0.57
1:P:22:LYS:O	1:P:26:GLU:N	2.29	0.57
1:P:82:PRO:HD2	1:P:85:TYR:CD2	2.40	0.57
1:P:643:GLY:HA2	4:1:24:ASP:OD1	2.04	0.57
1:A:538:GLU:CG	4:8:351:THR:C	2.74	0.57
1:A:541:MET:HG2	4:8:345:ILE:CG2	2.34	0.57
1:A:833:MLY:HA	2:B:161:GLU:OE1	2.04	0.57
1:D:794:CYS:O	1:D:798:LEU:N	2.36	0.57
1:D:814:PHE:CA	2:E:127:ARG:HH11	2.01	0.57
1:G:22:LYS:HA	1:G:25:ILE:HB	1.87	0.57
1:G:649:VAL:HA	1:G:649:VAL:HG23	1.83	0.57
1:J:795:ARG:HG3	3:L:116:GLU:OE2	2.04	0.57
1:M:254:PHE:CE2	1:M:459:ILE:HD12	2.39	0.57
1:M:530:MET:CA	4:Z:354:GLN:HB3	2.35	0.57
4:2:203:THR:H	4:Z:287:ILE:HG21	1.70	0.57
1:A:166:MET:HE3	1:A:254:PHE:HD2	1.70	0.56
1:A:217:THR:HG22	1:A:218:LEU:O	2.05	0.56
1:A:817:GLN:CG	2:B:127:ARG:HB3	2.35	0.56
1:D:109:ARG:O	1:D:114:MET:N	2.37	0.56
1:D:302:MET:HG2	1:D:303:LEU:HD13	1.87	0.56
1:D:630:ALA:CA	4:9:25:ASP:OD2	2.53	0.56
1:G:322:VAL:HG11	1:G:325:ILE:HD11	1.86	0.56
1:G:707:CYS:SG	1:G:714:ARG:NH1	2.78	0.56
1:J:612:GLN:HE22	1:J:627:GLY:HA2	1.66	0.56
1:J:733:PRO:CA	1:J:737:PHE:HE1	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:831:TRP:CZ3	2:K:34:ILE:HD13	2.40	0.56
1:M:813:ILE:O	1:M:816:ILE:N	2.37	0.56
1:P:733:PRO:CA	1:P:737:PHE:HE1	2.19	0.56
4:2:203:THR:HB	4:Z:287:ILE:HG12	1.87	0.56
4:4:287:ILE:HB	4:6:203:THR:CG2	2.35	0.56
1:A:733:PRO:CA	1:A:737:PHE:HE1	2.19	0.56
1:A:797:PHE:HE1	3:C:146:ILE:C	2.00	0.56
1:D:529:PRO:CG	4:9:353:GLN:OE1	2.53	0.56
1:D:534:SER:C	4:9:351:THR:CA	2.47	0.56
3:F:102:VAL:HG23	3:F:139:TYR:CD1	2.39	0.56
1:G:82:PRO:HD2	1:G:85:TYR:CD2	2.40	0.56
1:G:529:PRO:HG3	4:V:353:GLN:OE1	2.04	0.56
1:J:418:THR:HG22	1:J:419:VAL:H	1.69	0.56
1:J:747:LEU:O	1:J:747:LEU:HD23	2.05	0.56
1:J:789:ALA:HA	3:L:81:GLN:NE2	2.20	0.56
1:P:411:GLU:H	4:1:333:PRO:HG2	1.71	0.56
1:P:642:LYS:CA	4:1:22:ALA:C	2.70	0.56
4:V:365:ALA:HB3	4:V:369:ILE:HB	1.88	0.56
1:A:93:MET:HE2	1:A:715:VAL:HA	0.69	0.56
1:A:116:TYR:CE2	1:A:154:HIS:CD2	2.94	0.56
1:A:202:SER:HA	1:A:207:LYS:HE3	1.72	0.56
1:A:254:PHE:CE2	1:A:459:ILE:HD12	2.39	0.56
1:A:831:TRP:CE2	2:B:51:PHE:CZ	2.79	0.56
1:D:135:TYR:N	1:D:135:TYR:HD1	2.04	0.56
1:D:798:LEU:HD11	3:F:126:LEU:CD2	2.34	0.56
1:D:836:PHE:CE1	2:E:159:HIS:HB2	2.40	0.56
1:G:93:MET:SD	1:G:715:VAL:C	2.84	0.56
1:G:411:GLU:H	4:V:333:PRO:HG2	1.70	0.56
1:G:707:CYS:O	1:G:712:PRO:HD3	2.04	0.56
1:G:747:LEU:HD23	1:G:747:LEU:O	2.05	0.56
1:J:173:GLN:C	1:J:667:THR:HG23	2.25	0.56
1:J:218:LEU:N	1:J:221:GLN:HE21	2.01	0.56
1:J:604:ASN:OD1	1:J:607:VAL:HG23	2.06	0.56
1:J:642:LYS:CA	4:W:22:ALA:C	2.70	0.56
1:J:677:PRO:HB2	1:J:678:ASN:ND2	2.20	0.56
1:J:804:ARG:HH22	3:L:149:VAL:HA	1.70	0.56
1:M:116:TYR:CE2	1:M:154:HIS:CD2	2.93	0.56
1:M:579:PHE:CD2	1:M:592:ILE:HD11	2.40	0.56
1:M:634:GLY:N	4:Z:25:ASP:O	2.31	0.56
1:M:723:ARG:HH21	1:M:779:ARG:C	2.08	0.56
1:P:217:THR:HG22	1:P:218:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:322:VAL:HG11	1:P:325:ILE:HD11	1.86	0.56
1:P:747:LEU:O	1:P:747:LEU:HD23	2.05	0.56
1:P:816:ILE:HD11	2:Q:100:ALA:HB1	1.87	0.56
4:3:365:ALA:HB3	4:3:369:ILE:HB	1.88	0.56
4:8:365:ALA:HB3	4:8:369:ILE:HB	1.88	0.56
4:Y:365:ALA:HB3	4:Y:369:ILE:HB	1.87	0.56
1:D:435:GLU:O	1:D:438:PHE:HB3	2.06	0.56
1:D:546:THR:HG21	1:D:548:THR:HB	1.88	0.56
1:G:116:TYR:CE2	1:G:154:HIS:CD2	2.94	0.56
1:G:135:TYR:N	1:G:135:TYR:HD1	2.04	0.56
1:G:638:GLY:CA	4:V:345:ILE:H	2.18	0.56
1:J:109:ARG:O	1:J:114:MET:N	2.37	0.56
1:J:322:VAL:HG11	1:J:325:ILE:HD11	1.86	0.56
1:J:411:GLU:H	4:W:333:PRO:HG2	1.71	0.56
1:J:649:VAL:CG1	1:J:649:VAL:HA	2.35	0.56
1:J:733:PRO:CB	1:J:737:PHE:HE1	2.19	0.56
1:M:717:TYR:HD1	1:M:744:SER:HG	1.52	0.56
1:P:604:ASN:OD1	1:P:607:VAL:HG23	2.06	0.56
1:P:612:GLN:HE22	1:P:627:GLY:HA2	1.66	0.56
1:P:649:VAL:CG1	1:P:649:VAL:HA	2.35	0.56
1:P:821:ARG:HH12	2:Q:127:ARG:CZ	2.19	0.56
1:P:836:PHE:CZ	2:Q:159:HIS:HA	2.27	0.56
4:X:365:ALA:HB3	4:X:369:ILE:HB	1.88	0.56
1:A:149:GLN:CD	1:A:718:ALA:H	2.09	0.56
1:A:530:MET:HA	4:8:354:GLN:CD	2.11	0.56
1:A:530:MET:CB	4:8:354:GLN:HG3	2.36	0.56
1:A:579:PHE:CD2	1:A:592:ILE:HD11	2.40	0.56
1:A:630:ALA:CA	4:8:25:ASP:OD2	2.53	0.56
1:D:82:PRO:HD2	1:D:85:TYR:CD2	2.40	0.56
1:D:322:VAL:HG11	1:D:325:ILE:HD11	1.86	0.56
1:D:546:THR:HB	1:D:549:SER:H	1.71	0.56
1:D:604:ASN:OD1	1:D:607:VAL:HG23	2.06	0.56
1:D:677:PRO:HB2	1:D:678:ASN:ND2	2.20	0.56
1:D:712:PRO:HB2	1:D:771:LEU:HB3	1.87	0.56
1:D:747:LEU:HD23	1:D:747:LEU:O	2.05	0.56
3:F:46:ILE:O	3:F:50:LEU:CG	2.47	0.56
1:G:93:MET:CE	1:G:715:VAL:C	2.73	0.56
1:G:127:ASN:ND2	1:G:128:PRO:HD2	2.17	0.56
1:G:406:VAL:HG12	1:G:407:GLY:H	1.71	0.56
1:G:733:PRO:CA	1:G:737:PHE:HE1	2.19	0.56
1:G:754:ASP:O	1:G:776:GLU:OE2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:834:LEU:CD1	2:H:51:PHE:HE1	2.12	0.56
1:J:797:PHE:HE2	3:L:126:LEU:HD22	1.68	0.56
1:M:629:GLU:O	1:M:643:GLY:HA3	2.06	0.56
1:P:173:GLN:C	1:P:667:THR:HG23	2.25	0.56
1:P:733:PRO:CB	1:P:737:PHE:HE1	2.19	0.56
4:V:291:LYS:HD2	4:X:243:PRO:HB2	1.87	0.56
4:Z:365:ALA:HB3	4:Z:369:ILE:HB	1.87	0.56
1:A:411:GLU:H	4:8:333:PRO:HG2	1.71	0.56
1:A:599:ASN:CG	1:A:649:VAL:HB	2.25	0.56
1:D:831:TRP:HZ2	2:E:47:LEU:HB3	1.71	0.56
1:G:783:LEU:HA	1:G:786:ILE:HB	1.87	0.56
3:I:46:ILE:O	3:I:50:LEU:CG	2.47	0.56
1:J:529:PRO:CG	4:W:353:GLN:OE1	2.54	0.56
1:J:725:ARG:HG3	1:J:733:PRO:CA	2.36	0.56
1:M:135:TYR:N	1:M:135:TYR:HD1	2.04	0.56
1:M:338:ILE:HG21	1:M:348:MLY:HB3	1.87	0.56
1:M:737:PHE:CE1	3:O:85:GLU:OE1	2.58	0.56
1:M:834:LEU:HD12	2:N:51:PHE:CE1	2.36	0.56
3:O:102:VAL:HG23	3:O:139:TYR:CD1	2.39	0.56
1:P:481:ASN:N	1:P:481:ASN:ND2	2.51	0.56
1:A:823:PHE:HE1	2:B:161:GLU:N	2.02	0.56
1:D:206:LYS:HB3	1:D:217:THR:OG1	2.06	0.56
1:D:643:GLY:HA2	4:9:24:ASP:OD1	2.04	0.56
1:D:732:ILE:CD1	1:D:782:MLY:CH2	2.84	0.56
2:E:140:PHE:O	2:E:141:PRO:C	2.33	0.56
1:G:217:THR:HG22	1:G:218:LEU:O	2.06	0.56
1:G:435:GLU:O	1:G:438:PHE:HB3	2.06	0.56
1:G:599:ASN:CG	1:G:649:VAL:HB	2.25	0.56
1:J:82:PRO:HD2	1:J:85:TYR:CD2	2.40	0.56
1:J:83:PRO:C	1:J:723:ARG:NH2	2.58	0.56
1:J:206:LYS:HB3	1:J:217:THR:OG1	2.06	0.56
1:J:649:VAL:HA	1:J:649:VAL:HG23	1.83	0.56
1:M:568:PRO:HG3	1:M:578:HIS:H	1.69	0.56
1:M:638:GLY:CA	4:Z:345:ILE:H	2.18	0.56
1:M:733:PRO:CA	1:M:737:PHE:HE1	2.18	0.56
1:M:795:ARG:CZ	3:O:116:GLU:OE1	2.45	0.56
1:P:410:ASN:CG	4:1:334:GLU:C	2.65	0.56
1:P:723:ARG:HH22	1:P:782:MLY:HB3	1.66	0.56
1:P:767:PHE:CD1	1:P:772:LEU:HD13	2.41	0.56
4:2:324:THR:OG1	4:4:244:ASP:CB	2.53	0.56
4:V:288:ASP:N	4:X:204:ALA:H	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:287:ILE:CG1	4:Z:205:GLU:HG3	2.36	0.56
3:C:102:VAL:HG23	3:C:139:TYR:CD1	2.39	0.56
1:D:173:GLN:C	1:D:667:THR:HG23	2.25	0.56
1:D:338:ILE:HG21	1:D:348:MLY:HB3	1.87	0.56
1:G:629:GLU:O	1:G:643:GLY:HA3	2.06	0.56
1:G:640:LYS:C	1:G:645:SER:OG	2.44	0.56
1:J:135:TYR:N	1:J:135:TYR:HD1	2.04	0.56
1:J:302:MET:HG2	1:J:303:LEU:HD13	1.87	0.56
1:J:537:GLU:HB3	1:J:648:THR:CB	2.36	0.56
1:J:795:ARG:CD	3:L:116:GLU:OE2	2.52	0.56
1:M:630:ALA:CA	4:Z:25:ASP:OD2	2.53	0.56
1:M:635:GLY:HA3	4:Z:334:GLU:CG	2.30	0.56
1:M:783:LEU:CD2	1:M:786:ILE:HD11	2.34	0.56
1:M:832:MET:SD	2:N:84:PHE:HE2	2.28	0.56
1:P:7:MET:HE3	1:P:14:ALA:CB	2.36	0.56
1:P:435:GLU:O	1:P:438:PHE:HB3	2.06	0.56
1:P:546:THR:HG21	1:P:548:THR:HB	1.88	0.56
4:1:365:ALA:HB3	4:1:369:ILE:HB	1.88	0.56
4:W:365:ALA:HB3	4:W:369:ILE:HB	1.88	0.56
1:A:135:TYR:N	1:A:135:TYR:HD1	2.04	0.56
1:A:290:GLN:HG2	1:A:331:LEU:HA	1.87	0.56
1:A:529:PRO:CB	4:8:354:GLN:HA	2.36	0.56
1:A:725:ARG:HG3	1:A:733:PRO:CA	2.36	0.56
1:D:99:GLU:OE2	1:D:696:ARG:NH2	2.30	0.56
1:D:411:GLU:H	4:9:333:PRO:HG2	1.70	0.56
1:D:726:VAL:O	1:D:785:GLU:CG	2.49	0.56
1:D:830:PRO:HG2	2:E:67:MET:HE2	1.88	0.56
1:G:541:MET:HG2	4:V:345:ILE:CG2	2.35	0.56
1:G:813:ILE:HG23	2:H:128:PHE:CE1	2.12	0.56
1:J:567:LYS:NZ	4:Y:92:ASN:ND2	2.36	0.56
1:M:505:MLY:O	1:M:762:HIS:ND1	2.38	0.56
1:M:599:ASN:CG	1:M:649:VAL:HB	2.25	0.56
1:P:206:LYS:HB3	1:P:217:THR:OG1	2.06	0.56
1:P:295:MLY:HG3	1:P:332:MET:HE1	1.88	0.56
1:P:406:VAL:HG12	1:P:407:GLY:H	1.71	0.56
1:P:629:GLU:O	1:P:643:GLY:HA3	2.06	0.56
4:X:292:ASP:OD1	4:Z:244:ASP:HA	2.06	0.56
1:A:22:LYS:HA	1:A:25:ILE:HB	1.88	0.56
1:A:22:LYS:O	1:A:26:GLU:HG3	2.06	0.56
1:A:32:PHE:CG	1:A:83:PRO:HD3	2.41	0.56
1:A:109:ARG:O	1:A:114:MET:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:149:GLN:HG2	1:A:719:ASP:OD1	1.93	0.56
1:A:629:GLU:O	1:A:643:GLY:HA3	2.06	0.56
1:A:836:PHE:HZ	2:B:159:HIS:HA	1.70	0.56
3:C:123:VAL:O	3:C:127:MET:HG2	2.07	0.56
1:D:116:TYR:CE2	1:D:154:HIS:CD2	2.94	0.56
1:D:217:THR:HG22	1:D:218:LEU:O	2.05	0.56
1:D:530:MET:HE3	4:9:354:GLN:CG	2.31	0.56
1:D:634:GLY:N	4:9:25:ASP:O	2.31	0.56
1:J:116:TYR:CE2	1:J:154:HIS:CD2	2.93	0.56
1:J:553:MLY:CE	4:Y:45:VAL:CG1	2.78	0.56
1:J:561:LYS:HE2	4:Y:48:GLY:HA3	1.87	0.56
2:K:150:TYR:C	2:K:151:LYS:CG	2.48	0.56
1:M:22:LYS:HA	1:M:25:ILE:HB	1.87	0.56
1:M:206:LYS:HB3	1:M:217:THR:OG1	2.06	0.56
1:M:733:PRO:CB	1:M:737:PHE:HE1	2.19	0.56
1:P:32:PHE:CG	1:P:83:PRO:HD3	2.41	0.56
1:P:290:GLN:HG2	1:P:331:LEU:HA	1.87	0.56
1:P:530:MET:CA	4:1:354:GLN:HB3	2.35	0.56
4:1:245:GLY:N	4:Y:291:LYS:CB	2.68	0.56
4:2:287:ILE:HB	4:4:203:THR:CB	2.35	0.56
4:5:365:ALA:HB3	4:5:369:ILE:HB	1.88	0.56
1:A:501:GLU:CG	1:A:762:HIS:CE1	2.84	0.55
1:A:529:PRO:CG	4:8:353:GLN:OE1	2.53	0.55
1:D:629:GLU:O	1:D:643:GLY:HA3	2.06	0.55
1:D:725:ARG:HG3	1:D:733:PRO:CA	2.36	0.55
1:D:799:MET:HE1	3:F:32:ASP:CB	2.25	0.55
1:G:755:HIS:H	1:G:779:ARG:NH2	1.89	0.55
1:G:794:CYS:O	1:G:798:LEU:N	2.37	0.55
1:J:22:LYS:HA	1:J:25:ILE:HB	1.87	0.55
1:J:435:GLU:O	1:J:438:PHE:HB3	2.06	0.55
1:J:629:GLU:O	1:J:643:GLY:HA3	2.06	0.55
1:J:640:LYS:C	1:J:645:SER:OG	2.44	0.55
2:K:156:VAL:HA	2:K:159:HIS:O	2.07	0.55
3:L:123:VAL:O	3:L:127:MET:HG2	2.07	0.55
1:M:508:ILE:HD11	1:M:766:PHE:CG	2.40	0.55
1:M:530:MET:CB	4:Z:354:GLN:HG3	2.36	0.55
1:P:821:ARG:HH22	2:Q:127:ARG:NE	2.04	0.55
4:7:365:ALA:HB3	4:7:369:ILE:HB	1.87	0.55
4:9:365:ALA:HB3	4:9:369:ILE:HB	1.88	0.55
1:A:530:MET:HE3	4:8:354:GLN:CB	2.35	0.55
1:A:546:THR:HB	1:A:549:SER:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:CA	4:8:22:ALA:C	2.71	0.55
1:D:345:ALA:O	1:D:349:THR:N	2.40	0.55
1:D:406:VAL:HG12	1:D:407:GLY:H	1.71	0.55
1:D:529:PRO:CB	4:9:354:GLN:HA	2.36	0.55
1:D:538:GLU:CG	4:9:351:THR:C	2.73	0.55
1:G:206:LYS:HB3	1:G:217:THR:OG1	2.06	0.55
1:G:815:CYS:SG	2:H:92:ASP:OD1	2.64	0.55
1:G:831:TRP:HE1	2:H:67:MET:CB	1.96	0.55
1:J:22:LYS:O	1:J:26:GLU:HG3	2.07	0.55
1:J:630:ALA:HA	4:W:25:ASP:OD2	2.07	0.55
1:J:757:GLN:NE2	1:J:777:GLU:H	2.05	0.55
1:J:836:PHE:CE2	2:K:160:GLY:HA3	2.40	0.55
2:K:112:ILE:C	2:K:147:ASN:O	2.42	0.55
1:M:7:MET:HE3	1:M:14:ALA:CB	2.36	0.55
1:M:643:GLY:N	4:Z:23:GLY:C	2.55	0.55
1:M:799:MET:HE1	3:O:32:ASP:HB3	1.85	0.55
1:P:630:ALA:HA	4:1:25:ASP:OD2	2.07	0.55
1:P:640:LYS:C	1:P:645:SER:OG	2.44	0.55
1:P:677:PRO:HB2	1:P:678:ASN:ND2	2.20	0.55
1:P:722:GLN:HE21	3:R:85:GLU:CB	2.19	0.55
4:2:287:ILE:HG21	4:4:203:THR:N	2.19	0.55
1:A:82:PRO:HD2	1:A:85:TYR:HD2	1.72	0.55
1:A:338:ILE:HG21	1:A:348:MLY:HB3	1.87	0.55
1:A:579:PHE:HE1	1:A:581:LEU:HD13	1.72	0.55
1:A:638:GLY:CA	4:8:345:ILE:H	2.19	0.55
1:A:640:LYS:C	1:A:645:SER:OG	2.44	0.55
1:D:22:LYS:O	1:D:26:GLU:HG3	2.06	0.55
1:D:712:PRO:CB	1:D:771:LEU:HD22	2.36	0.55
1:G:22:LYS:O	1:G:26:GLU:HG3	2.06	0.55
1:G:546:THR:HG21	1:G:548:THR:HB	1.88	0.55
1:G:795:ARG:HB3	3:I:35:ARG:HH22	1.72	0.55
3:I:35:ARG:HA	3:I:39:GLN:O	2.06	0.55
1:J:7:MET:HE3	1:J:14:ALA:CB	2.36	0.55
1:J:217:THR:HG22	1:J:218:LEU:O	2.05	0.55
1:M:84:MLY:HD2	1:M:776:GLU:OE1	1.97	0.55
1:M:640:LYS:C	1:M:645:SER:OG	2.44	0.55
1:M:646:PHE:CE2	1:M:652:LEU:CG	2.90	0.55
3:O:123:VAL:O	3:O:127:MET:HG2	2.07	0.55
1:P:22:LYS:HA	1:P:25:ILE:HB	1.87	0.55
1:P:116:TYR:CE2	1:P:154:HIS:CD2	2.94	0.55
1:P:546:THR:HB	1:P:549:SER:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:287:ILE:HB	4:5:204:ALA:N	2.21	0.55
1:A:7:MET:HE3	1:A:14:ALA:CB	2.36	0.55
1:A:345:ALA:O	1:A:349:THR:N	2.40	0.55
1:A:406:VAL:HG12	1:A:407:GLY:H	1.71	0.55
1:A:646:PHE:CE2	1:A:652:LEU:CG	2.90	0.55
1:A:732:ILE:CG2	1:A:747:LEU:HD11	1.26	0.55
1:A:753:VAL:CG1	1:A:775:LEU:HD23	2.36	0.55
1:D:7:MET:HE3	1:D:14:ALA:CB	2.37	0.55
1:D:800:ARG:HB3	3:F:149:VAL:CG1	2.36	0.55
1:J:290:GLN:HG2	1:J:331:LEU:HA	1.87	0.55
1:J:506:GLU:OE2	1:J:760:PHE:O	2.24	0.55
1:J:529:PRO:CB	4:W:354:GLN:HA	2.36	0.55
1:J:839:MLY:HH21	2:K:158:THR:HG22	1.89	0.55
1:M:410:ASN:CG	4:Z:334:GLU:C	2.65	0.55
1:M:796:GLY:HA2	3:O:35:ARG:HD3	1.87	0.55
1:P:338:ILE:HG21	1:P:348:MLY:HB3	1.87	0.55
1:P:832:MET:SD	2:Q:84:PHE:HE2	2.30	0.55
1:A:418:THR:HG22	1:A:419:VAL:H	1.69	0.55
1:A:733:PRO:CB	1:A:737:PHE:HE1	2.19	0.55
1:A:799:MET:SD	3:C:32:ASP:C	2.85	0.55
1:D:22:LYS:HA	1:D:25:ILE:HB	1.87	0.55
1:G:7:MET:HE3	1:G:14:ALA:CB	2.36	0.55
1:G:82:PRO:HD2	1:G:85:TYR:HD2	1.72	0.55
1:G:537:GLU:HB3	1:G:648:THR:CB	2.36	0.55
1:G:755:HIS:CB	1:G:779:ARG:HH22	2.09	0.55
1:J:32:PHE:CG	1:J:83:PRO:HD3	2.41	0.55
1:J:579:PHE:HE1	1:J:581:LEU:HD13	1.72	0.55
1:J:646:PHE:CE2	1:J:652:LEU:CG	2.90	0.55
1:J:804:ARG:NH2	3:L:149:VAL:HA	2.22	0.55
1:M:435:GLU:O	1:M:438:PHE:HB3	2.06	0.55
1:M:530:MET:HE3	4:Z:355:MET:SD	2.46	0.55
1:M:579:PHE:HE1	1:M:581:LEU:HD13	1.72	0.55
1:P:135:TYR:N	1:P:135:TYR:HD1	2.04	0.55
1:P:722:GLN:NE2	3:R:83:THR:C	2.60	0.55
1:P:783:LEU:CG	1:P:786:ILE:HD11	2.37	0.55
1:P:800:ARG:CG	3:R:149:VAL:HG22	2.36	0.55
1:P:839:MLY:HH21	2:Q:158:THR:HG22	1.88	0.55
3:R:123:VAL:O	3:R:127:MET:HG2	2.06	0.55
4:4:365:ALA:HB3	4:4:369:ILE:HB	1.88	0.55
4:X:287:ILE:HD13	4:Z:205:GLU:CG	2.35	0.55
1:A:435:GLU:O	1:A:438:PHE:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:537:GLU:HB3	1:A:648:THR:CB	2.36	0.55
1:A:546:THR:HG21	1:A:548:THR:HB	1.88	0.55
2:B:156:VAL:HA	2:B:159:HIS:O	2.07	0.55
1:D:292:MET:HE1	1:D:309:PRO:CD	2.37	0.55
1:D:537:GLU:HB3	1:D:648:THR:CB	2.36	0.55
1:D:638:GLY:CA	4:9:345:ILE:H	2.18	0.55
1:D:733:PRO:CA	1:D:737:PHE:HE1	2.18	0.55
1:G:290:GLN:HG2	1:G:331:LEU:HA	1.88	0.55
1:G:290:GLN:NE2	1:G:334:THR:OG1	2.40	0.55
1:G:646:PHE:CE2	1:G:652:LEU:CG	2.90	0.55
1:G:733:PRO:CB	1:G:737:PHE:HE1	2.19	0.55
3:I:123:VAL:O	3:I:127:MET:HG2	2.07	0.55
1:J:82:PRO:HD2	1:J:85:TYR:HD2	1.72	0.55
1:J:220:ASP:O	1:J:224:SER:N	2.27	0.55
1:J:290:GLN:NE2	1:J:334:THR:OG1	2.40	0.55
1:M:32:PHE:CG	1:M:83:PRO:HD3	2.42	0.55
1:M:217:THR:HG22	1:M:218:LEU:O	2.05	0.55
1:M:345:ALA:O	1:M:349:THR:N	2.40	0.55
1:M:406:VAL:HG12	1:M:407:GLY:H	1.71	0.55
1:M:529:PRO:CB	4:Z:354:GLN:HA	2.36	0.55
1:M:529:PRO:CG	4:Z:353:GLN:OE1	2.54	0.55
1:M:792:ALA:CB	3:O:42:THR:N	2.70	0.55
1:P:109:ARG:O	1:P:114:MET:N	2.37	0.55
1:P:290:GLN:NE2	1:P:334:THR:OG1	2.40	0.55
1:P:529:PRO:CG	4:1:353:GLN:OE1	2.54	0.55
1:P:530:MET:CB	4:1:354:GLN:HG3	2.36	0.55
1:P:579:PHE:HE1	1:P:581:LEU:HD13	1.72	0.55
1:P:646:PHE:CE2	1:P:652:LEU:CG	2.90	0.55
1:P:725:ARG:HG3	1:P:733:PRO:CA	2.36	0.55
1:P:765:VAL:HG12	1:P:766:PHE:N	2.22	0.55
1:P:806:MET:C	1:P:809:ARG:HB2	2.27	0.55
1:P:836:PHE:CE1	2:Q:160:GLY:N	2.63	0.55
2:Q:156:VAL:HA	2:Q:159:HIS:O	2.07	0.55
4:X:287:ILE:CD1	4:Z:205:GLU:CG	2.76	0.55
1:A:302:MET:HG2	1:A:303:LEU:HD13	1.87	0.55
1:A:757:GLN:O	1:A:771:LEU:HD22	2.06	0.55
3:C:35:ARG:HA	3:C:39:GLN:O	2.07	0.55
1:D:32:PHE:CG	1:D:83:PRO:HD3	2.41	0.55
1:D:640:LYS:C	1:D:645:SER:OG	2.44	0.55
1:D:642:LYS:CA	4:9:22:ALA:C	2.71	0.55
1:D:649:VAL:CG1	1:D:649:VAL:HA	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:TYR:CD1	1:D:782:MLY:CD	2.90	0.55
2:E:112:ILE:C	2:E:147:ASN:O	2.42	0.55
3:F:123:VAL:O	3:F:127:MET:HG2	2.07	0.55
1:G:506:GLU:OE2	1:G:760:PHE:CA	2.54	0.55
1:G:792:ALA:CB	3:I:42:THR:N	2.59	0.55
1:J:406:VAL:HG12	1:J:407:GLY:H	1.71	0.55
1:J:642:LYS:HG2	4:W:22:ALA:C	2.27	0.55
1:M:82:PRO:HD2	1:M:85:TYR:HD2	1.72	0.55
1:M:411:GLU:H	4:Z:333:PRO:HG2	1.71	0.55
2:N:156:VAL:HA	2:N:159:HIS:O	2.07	0.55
1:P:22:LYS:O	1:P:26:GLU:HG3	2.07	0.55
1:P:302:MET:HG2	1:P:303:LEU:HD13	1.87	0.55
1:P:537:GLU:HB3	1:P:648:THR:CB	2.36	0.55
1:P:723:ARG:HH11	1:P:723:ARG:CG	2.20	0.55
1:P:726:VAL:HG13	3:R:80:ASP:OD1	2.07	0.55
1:P:794:CYS:O	1:P:798:LEU:N	2.36	0.55
2:Q:121:LEU:CA	2:Q:128:PHE:CG	2.89	0.55
4:1:201:VAL:H	4:Y:287:ILE:HG12	1.03	0.55
4:6:365:ALA:HB3	4:6:369:ILE:HB	1.88	0.55
1:A:93:MET:CE	1:A:715:VAL:HG22	2.36	0.55
1:A:290:GLN:NE2	1:A:334:THR:OG1	2.40	0.55
1:D:646:PHE:CE2	1:D:652:LEU:CG	2.90	0.55
3:F:35:ARG:HA	3:F:39:GLN:O	2.07	0.55
1:G:126:VAL:HG13	1:G:675:ILE:HG22	1.89	0.55
1:G:135:TYR:HD2	1:G:191:ARG:HG2	1.72	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:530:MET:HE3	4:V:354:GLN:CB	2.36	0.55
1:G:538:GLU:CD	4:V:355:MET:HE3	2.25	0.55
1:G:546:THR:HB	1:G:549:SER:H	1.71	0.55
1:G:638:GLY:HA2	4:V:345:ILE:H	1.72	0.55
1:G:755:HIS:HA	1:G:758:TYR:HE1	1.64	0.55
1:G:795:ARG:CG	3:I:116:GLU:OE2	2.55	0.55
1:G:797:PHE:CD2	3:I:126:LEU:HD13	2.41	0.55
1:J:28:GLN:CG	1:J:723:ARG:NH2	2.58	0.55
1:J:546:THR:HB	1:J:549:SER:H	1.71	0.55
1:J:721:LYS:C	1:J:736:GLN:OE1	2.46	0.55
1:M:290:GLN:NE2	1:M:334:THR:OG1	2.40	0.55
1:M:290:GLN:HG2	1:M:331:LEU:HA	1.87	0.55
1:M:302:MET:HG2	1:M:303:LEU:HD13	1.87	0.55
1:P:345:ALA:O	1:P:349:THR:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:MLY:CE	4:V:45:VAL:CA	2.49	0.55
1:A:604:ASN:OD1	1:A:607:VAL:HG23	2.06	0.55
1:A:797:PHE:HE2	3:C:126:LEU:CD2	2.08	0.55
1:D:507:GLY:HA3	1:D:762:HIS:HB2	1.88	0.55
1:D:831:TRP:CD1	2:E:67:MET:SD	3.00	0.55
1:G:215:GLN:CA	1:G:340:ILE:CG2	2.63	0.55
1:G:302:MET:HG2	1:G:303:LEU:HD13	1.88	0.55
1:G:305:ILE:HG22	1:G:312:TYR:CE2	2.42	0.55
1:G:529:PRO:CG	4:V:353:GLN:OE1	2.54	0.55
1:G:723:ARG:HH11	1:G:723:ARG:CG	2.20	0.55
1:J:638:GLY:CA	4:W:345:ILE:H	2.18	0.55
1:P:78:PHE:HB3	1:P:98:HIS:NE2	2.22	0.55
1:P:529:PRO:CB	4:1:354:GLN:HA	2.36	0.55
1:P:538:GLU:CG	4:1:351:THR:C	2.73	0.55
1:P:782:MLY:HH23	3:R:80:ASP:O	2.05	0.55
3:R:102:VAL:HG23	3:R:139:TYR:CD1	2.39	0.55
4:2:365:ALA:HB3	4:2:369:ILE:HB	1.88	0.55
1:A:206:LYS:HB3	1:A:217:THR:OG1	2.06	0.55
1:A:642:LYS:HG2	4:8:22:ALA:C	2.28	0.55
1:D:530:MET:CB	4:9:354:GLN:HG3	2.36	0.55
1:D:630:ALA:HA	4:9:25:ASP:OD2	2.07	0.55
1:D:712:PRO:CG	1:D:771:LEU:CB	2.72	0.55
1:D:733:PRO:CB	1:D:737:PHE:HE1	2.19	0.55
1:G:202:SER:HA	1:G:207:LYS:HE3	1.72	0.55
1:G:305:ILE:HG22	1:G:312:TYR:CZ	2.42	0.55
1:G:553:MLY:HH13	4:X:45:VAL:CG1	2.25	0.55
1:J:530:MET:CB	4:W:354:GLN:HG3	2.36	0.55
1:J:759:ALA:O	1:J:766:PHE:N	2.32	0.55
1:P:721:LYS:C	1:P:736:GLN:OE1	2.46	0.55
1:A:292:MET:HE1	1:A:309:PRO:CD	2.37	0.54
1:A:836:PHE:CD1	2:B:159:HIS:HB2	2.30	0.54
1:D:78:PHE:HB3	1:D:98:HIS:NE2	2.22	0.54
1:D:82:PRO:HD2	1:D:85:TYR:HD2	1.72	0.54
1:D:305:ILE:HG22	1:D:312:TYR:CE2	2.42	0.54
1:D:642:LYS:HG2	4:9:22:ALA:C	2.27	0.54
1:D:795:ARG:CG	3:F:118:MET:CE	2.72	0.54
1:G:795:ARG:CZ	3:I:116:GLU:HB3	2.29	0.54
1:J:292:MET:HE1	1:J:309:PRO:CD	2.37	0.54
1:J:538:GLU:CG	4:W:351:THR:C	2.73	0.54
1:J:795:ARG:HH21	3:L:116:GLU:HG2	1.71	0.54
1:M:765:VAL:HG12	1:M:766:PHE:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:38:VAL:CB	1:P:52:ILE:HD11	2.38	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CE2	2.42	0.54
1:A:135:TYR:HD2	1:A:191:ARG:HG2	1.72	0.54
1:A:149:GLN:CG	1:A:716:LEU:HD23	2.36	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CZ	2.43	0.54
1:A:410:ASN:CG	4:8:334:GLU:C	2.65	0.54
1:D:723:ARG:CG	1:D:723:ARG:HH11	2.20	0.54
1:D:831:TRP:CZ3	2:E:34:ILE:CG1	2.90	0.54
1:G:32:PHE:CG	1:G:83:PRO:HD3	2.41	0.54
1:G:338:ILE:HG21	1:G:348:MLY:HB3	1.87	0.54
1:G:529:PRO:CB	4:V:354:GLN:HA	2.37	0.54
1:G:604:ASN:OD1	1:G:607:VAL:HG23	2.06	0.54
1:J:345:ALA:O	1:J:349:THR:N	2.40	0.54
1:M:721:LYS:C	1:M:736:GLN:OE1	2.46	0.54
1:P:135:TYR:HD2	1:P:191:ARG:HG2	1.73	0.54
1:P:305:ILE:HG22	1:P:312:TYR:CZ	2.42	0.54
1:P:649:VAL:HA	1:P:649:VAL:HG23	1.83	0.54
1:P:723:ARG:HH21	1:P:779:ARG:C	2.08	0.54
4:1:243:PRO:HB2	4:Y:291:LYS:HZ1	1.72	0.54
4:8:288:ASP:CA	4:V:204:ALA:HB2	2.31	0.54
1:A:98:HIS:HB3	1:A:100:PRO:CD	2.25	0.54
1:A:765:VAL:HG12	1:A:766:PHE:N	2.22	0.54
1:A:831:TRP:HH2	2:B:50:THR:OG1	1.83	0.54
1:D:10:PHE:O	1:D:12:GLU:N	2.41	0.54
1:D:135:TYR:HD2	1:D:191:ARG:HG2	1.72	0.54
1:D:579:PHE:HE1	1:D:581:LEU:HD13	1.72	0.54
1:D:721:LYS:C	1:D:736:GLN:OE1	2.46	0.54
1:G:10:PHE:O	1:G:12:GLU:N	2.41	0.54
1:G:538:GLU:CG	4:V:351:THR:C	2.73	0.54
1:G:707:CYS:O	1:G:712:PRO:CD	2.55	0.54
1:G:800:ARG:NH2	3:I:40:ASN:CG	2.54	0.54
1:J:78:PHE:HB3	1:J:98:HIS:NE2	2.22	0.54
1:J:410:ASN:CG	4:W:334:GLU:C	2.65	0.54
1:J:546:THR:HG21	1:J:548:THR:HB	1.88	0.54
1:M:126:VAL:HG13	1:M:675:ILE:HG22	1.89	0.54
1:M:508:ILE:CG2	1:M:759:ALA:HB1	2.35	0.54
1:M:638:GLY:HA2	4:Z:345:ILE:H	1.72	0.54
2:N:146:GLY:O	2:N:147:ASN:ND2	2.41	0.54
1:P:292:MET:HE3	1:P:309:PRO:CA	2.35	0.54
1:P:544:LYS:NZ	4:3:45:VAL:HG22	2.22	0.54
1:A:638:GLY:HA2	4:8:345:ILE:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:GLN:O	1:A:794:CYS:HB2	2.08	0.54
1:D:126:VAL:HG13	1:D:675:ILE:HG22	1.90	0.54
1:D:290:GLN:HG2	1:D:331:LEU:HA	1.87	0.54
1:D:290:GLN:NE2	1:D:334:THR:OG1	2.40	0.54
1:D:834:LEU:HD21	2:E:54:MET:HE3	1.77	0.54
2:E:146:GLY:O	2:E:147:ASN:ND2	2.41	0.54
1:G:649:VAL:CG1	1:G:649:VAL:HA	2.35	0.54
1:J:10:PHE:O	1:J:12:GLU:N	2.40	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CZ	2.42	0.54
1:M:78:PHE:HB3	1:M:98:HIS:NE2	2.22	0.54
1:M:292:MET:HE1	1:M:309:PRO:HD3	1.90	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CE2	2.43	0.54
1:M:537:GLU:HB3	1:M:648:THR:CB	2.36	0.54
1:M:604:ASN:OD1	1:M:607:VAL:HG23	2.06	0.54
1:P:759:ALA:O	1:P:766:PHE:N	2.32	0.54
1:P:799:MET:HE1	3:R:32:ASP:HB3	1.88	0.54
1:A:126:VAL:HG13	1:A:675:ILE:HG22	1.90	0.54
1:A:305:ILE:HG22	1:A:312:TYR:CE2	2.43	0.54
1:A:723:ARG:CG	1:A:723:ARG:HH11	2.20	0.54
1:G:84:MLY:HD3	1:G:724:TYR:CZ	2.42	0.54
1:G:553:MLY:HH12	4:X:45:VAL:CG1	2.29	0.54
1:G:556:ASP:OD2	4:X:44:MET:HG3	2.08	0.54
1:J:538:GLU:HG3	4:W:352:PHE:CA	2.38	0.54
1:J:791:GLN:O	1:J:794:CYS:HB2	2.08	0.54
3:L:35:ARG:HA	3:L:39:GLN:O	2.06	0.54
1:M:10:PHE:O	1:M:12:GLU:N	2.41	0.54
1:M:22:LYS:O	1:M:26:GLU:HG3	2.07	0.54
1:M:470:PHE:O	1:M:473:ASN:ND2	2.40	0.54
4:1:246:GLN:H	4:Y:291:LYS:HB3	1.71	0.54
1:A:10:PHE:O	1:A:12:GLU:N	2.41	0.54
1:A:149:GLN:HA	1:A:719:ASP:CG	2.27	0.54
1:A:629:GLU:CB	1:A:643:GLY:C	2.75	0.54
1:D:38:VAL:CB	1:D:52:ILE:HD11	2.38	0.54
2:E:156:VAL:HA	2:E:159:HIS:O	2.07	0.54
1:G:820:VAL:HG11	2:H:136:MET:HE1	1.89	0.54
2:H:146:GLY:O	2:H:147:ASN:ND2	2.41	0.54
1:J:629:GLU:CB	1:J:643:GLY:C	2.75	0.54
1:M:22:LYS:O	1:M:26:GLU:N	2.29	0.54
1:M:305:ILE:HG22	1:M:312:TYR:CZ	2.42	0.54
1:M:723:ARG:CG	1:M:723:ARG:HH11	2.20	0.54
1:M:725:ARG:HG3	1:M:733:PRO:CA	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:722:GLN:OE1	3:R:83:THR:O	2.25	0.54
2:Q:146:GLY:O	2:Q:147:ASN:ND2	2.41	0.54
4:1:110:LEU:C	4:2:195:GLU:CG	2.73	0.54
4:3:148:THR:HG21	4:5:45:VAL:HG21	1.89	0.54
1:A:571:ALA:O	1:A:572:LYS:CB	2.56	0.54
1:A:649:VAL:CG1	1:A:649:VAL:HA	2.35	0.54
1:A:649:VAL:HA	1:A:649:VAL:HG22	1.80	0.54
1:D:305:ILE:HG22	1:D:312:TYR:CZ	2.43	0.54
1:D:765:VAL:HG12	1:D:766:PHE:N	2.22	0.54
2:E:114:LYS:N	2:E:146:GLY:O	2.40	0.54
1:G:410:ASN:CG	4:V:334:GLU:C	2.64	0.54
1:G:506:GLU:OE1	1:G:760:PHE:O	2.23	0.54
2:H:137:TRP:CA	2:H:145:ALA:CB	2.82	0.54
2:H:156:VAL:HA	2:H:159:HIS:O	2.07	0.54
1:J:126:VAL:HG13	1:J:675:ILE:HG22	1.90	0.54
1:J:571:ALA:O	1:J:572:LYS:CB	2.56	0.54
1:M:546:THR:HG21	1:M:548:THR:HB	1.88	0.54
1:M:552:ASN:CB	4:2:49:GLN:CD	2.76	0.54
1:M:831:TRP:NE1	2:N:67:MET:HB3	2.17	0.54
3:O:35:ARG:HA	3:O:39:GLN:O	2.06	0.54
1:P:538:GLU:HG3	4:1:352:PHE:CA	2.38	0.54
1:P:638:GLY:CA	4:1:345:ILE:H	2.18	0.54
1:P:791:GLN:O	1:P:794:CYS:HB2	2.08	0.54
4:V:291:LYS:HD2	4:X:243:PRO:CB	2.38	0.54
1:A:493:HIS:ND1	1:A:514:ASP:OD2	2.41	0.54
1:A:733:PRO:O	1:A:737:PHE:CE1	2.53	0.54
1:D:530:MET:HE3	4:9:355:MET:SD	2.47	0.54
1:D:553:MLY:HG3	4:W:44:MET:O	2.07	0.54
1:D:747:LEU:HD11	1:D:782:MLY:HH22	1.81	0.54
1:G:78:PHE:HB3	1:G:98:HIS:NE2	2.23	0.54
1:G:98:HIS:HB3	1:G:100:PRO:CD	2.25	0.54
1:G:791:GLN:O	1:G:794:CYS:HB2	2.08	0.54
1:G:795:ARG:CZ	3:I:116:GLU:OE1	2.56	0.54
1:G:817:GLN:CD	2:H:127:ARG:CG	2.76	0.54
1:G:817:GLN:CB	2:H:127:ARG:CD	2.85	0.54
2:K:146:GLY:O	2:K:147:ASN:ND2	2.41	0.54
1:M:493:HIS:ND1	1:M:514:ASP:OD2	2.41	0.54
1:M:725:ARG:NH2	3:O:84:PHE:CE1	2.74	0.54
1:M:836:PHE:CZ	2:N:159:HIS:HA	2.28	0.54
1:P:292:MET:HE1	1:P:309:PRO:CD	2.38	0.54
1:P:571:ALA:O	1:P:572:LYS:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:VAL:CB	1:A:52:ILE:HD11	2.38	0.54
1:D:22:LYS:O	1:D:26:GLU:N	2.29	0.54
1:D:404:PRO:CG	1:D:417:GLU:HG3	2.38	0.54
1:D:538:GLU:HG3	4:9:352:PHE:CA	2.38	0.54
1:D:732:ILE:HG23	1:D:747:LEU:CD1	1.04	0.54
1:G:404:PRO:CG	1:G:417:GLU:HG3	2.38	0.54
1:G:579:PHE:HE1	1:G:581:LEU:HD13	1.72	0.54
1:G:642:LYS:CA	4:V:22:ALA:C	2.70	0.54
1:J:217:THR:C	1:J:221:GLN:NE2	2.62	0.54
1:J:305:ILE:HG22	1:J:312:TYR:CE2	2.43	0.54
1:J:579:PHE:CD2	1:J:592:ILE:HD11	2.39	0.54
1:J:642:LYS:CG	4:W:22:ALA:HA	2.37	0.54
1:M:135:TYR:HD2	1:M:191:ARG:HG2	1.72	0.54
1:M:508:ILE:CD1	1:M:766:PHE:CD1	2.79	0.54
1:M:649:VAL:CG1	1:M:649:VAL:HA	2.35	0.54
1:P:10:PHE:O	1:P:12:GLU:N	2.40	0.54
1:P:629:GLU:CB	1:P:643:GLY:C	2.75	0.54
3:R:35:ARG:HA	3:R:39:GLN:O	2.07	0.54
1:A:553:MLY:O	4:V:48:GLY:CA	2.56	0.54
1:D:135:TYR:HD2	1:D:191:ARG:HD3	1.73	0.54
1:G:649:VAL:HA	1:G:649:VAL:HG22	1.80	0.54
1:J:32:PHE:CD1	1:J:83:PRO:HD3	2.43	0.54
1:J:493:HIS:ND1	1:J:514:ASP:OD2	2.41	0.54
1:M:739:ASP:CB	1:M:742:LYS:CB	2.81	0.54
3:O:92:ARG:HA	3:O:139:TYR:OH	2.08	0.54
1:P:82:PRO:HD2	1:P:85:TYR:HD2	1.72	0.54
1:A:630:ALA:HA	4:8:25:ASP:OD2	2.07	0.53
1:A:800:ARG:C	3:C:149:VAL:HG22	2.29	0.53
1:D:32:PHE:CD1	1:D:83:PRO:HD3	2.43	0.53
1:D:493:HIS:ND1	1:D:514:ASP:OD2	2.41	0.53
1:D:612:GLN:HE22	1:D:627:GLY:HA2	1.66	0.53
1:D:638:GLY:HA2	4:9:345:ILE:H	1.72	0.53
1:D:759:ALA:O	1:D:766:PHE:N	2.32	0.53
1:D:769:ALA:C	1:D:771:LEU:HA	2.13	0.53
1:G:38:VAL:CB	1:G:52:ILE:HD11	2.38	0.53
1:G:530:MET:CB	4:V:354:GLN:HG3	2.37	0.53
1:G:765:VAL:HG12	1:G:766:PHE:N	2.22	0.53
3:I:92:ARG:HA	3:I:139:TYR:OH	2.08	0.53
1:M:538:GLU:CG	4:Z:351:THR:C	2.73	0.53
1:M:546:THR:HB	1:M:549:SER:H	1.71	0.53
1:P:126:VAL:HG13	1:P:675:ILE:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:404:PRO:CG	1:P:417:GLU:HG3	2.38	0.53
1:P:493:HIS:ND1	1:P:514:ASP:OD2	2.41	0.53
4:4:185:LEU:HD23	4:4:306:TYR:OH	2.09	0.53
1:A:154:HIS:CE1	1:A:156:PHE:HD2	2.27	0.53
1:A:502:GLU:C	1:A:761:GLY:HA3	2.23	0.53
1:A:721:LYS:C	1:A:736:GLN:OE1	2.46	0.53
1:A:819:ASN:N	2:B:90:GLY:O	2.41	0.53
1:A:823:PHE:CD1	2:B:160:GLY:HA3	2.41	0.53
2:B:146:GLY:O	2:B:147:ASN:ND2	2.41	0.53
1:D:576:GLU:CG	1:D:577:ALA:N	2.43	0.53
1:D:629:GLU:CB	1:D:643:GLY:C	2.75	0.53
1:D:642:LYS:CG	4:9:22:ALA:HA	2.37	0.53
1:G:154:HIS:CE1	1:G:156:PHE:HD2	2.26	0.53
1:J:83:PRO:O	1:J:723:ARG:CZ	2.56	0.53
1:J:277:PHE:CG	1:J:278:GLN:N	2.76	0.53
1:J:295:MLY:HE2	1:J:332:MET:HE1	1.90	0.53
1:J:584:TYR:CD1	1:J:585:ALA:N	2.77	0.53
1:J:635:GLY:HA3	4:W:334:GLU:CG	2.30	0.53
1:J:732:ILE:HG23	1:J:747:LEU:CD1	1.05	0.53
1:M:38:VAL:CB	1:M:52:ILE:HD11	2.38	0.53
1:M:538:GLU:HG3	4:Z:352:PHE:CA	2.38	0.53
1:M:642:LYS:CG	4:Z:22:ALA:CA	2.80	0.53
1:M:642:LYS:HG2	4:Z:22:ALA:C	2.27	0.53
1:M:789:ALA:HA	3:O:81:GLN:NE2	2.22	0.53
1:M:791:GLN:O	1:M:794:CYS:HB2	2.08	0.53
1:P:217:THR:C	1:P:221:GLN:NE2	2.62	0.53
1:P:277:PHE:CG	1:P:278:GLN:N	2.76	0.53
1:P:661:MET:O	1:P:665:ARG:HG3	2.09	0.53
1:P:782:MLY:HH23	3:R:80:ASP:CA	2.38	0.53
1:P:817:GLN:HG2	2:Q:127:ARG:CG	2.36	0.53
1:P:829:TRP:CH2	2:Q:84:PHE:CE1	2.96	0.53
4:2:185:LEU:HD23	4:2:306:TYR:OH	2.09	0.53
1:A:32:PHE:CD1	1:A:83:PRO:HD3	2.44	0.53
1:A:78:PHE:HB3	1:A:98:HIS:NE2	2.22	0.53
1:A:529:PRO:HB2	4:8:354:GLN:HA	1.91	0.53
1:A:634:GLY:N	4:8:25:ASP:O	2.31	0.53
1:A:707:CYS:SG	1:A:714:ARG:CZ	2.96	0.53
1:A:732:ILE:HG23	1:A:747:LEU:CD1	1.04	0.53
1:D:579:PHE:CD2	1:D:592:ILE:HD11	2.39	0.53
1:D:661:MET:O	1:D:665:ARG:HG3	2.08	0.53
1:D:739:ASP:CB	1:D:742:LYS:CB	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:114:LYS:O	2:E:147:ASN:ND2	2.41	0.53
3:F:92:ARG:HA	3:F:139:TYR:OH	2.08	0.53
1:G:571:ALA:O	1:G:572:LYS:CB	2.56	0.53
1:G:629:GLU:CB	1:G:643:GLY:C	2.75	0.53
1:G:707:CYS:O	1:G:712:PRO:N	2.41	0.53
1:G:789:ALA:CB	3:I:81:GLN:CD	2.76	0.53
1:G:823:PHE:CE1	2:H:156:VAL:O	2.62	0.53
1:J:38:VAL:CB	1:J:52:ILE:HD11	2.38	0.53
1:J:218:LEU:N	1:J:221:GLN:HG2	2.24	0.53
1:J:599:ASN:CG	1:J:649:VAL:H	2.12	0.53
1:M:556:ASP:OD2	4:2:41:GLN:CG	2.57	0.53
1:M:629:GLU:CB	1:M:643:GLY:C	2.75	0.53
1:P:599:ASN:CG	1:P:649:VAL:H	2.12	0.53
1:P:713:SER:OG	1:P:772:LEU:CD2	2.56	0.53
1:A:813:ILE:CG1	2:B:128:PHE:CE1	2.87	0.53
1:D:218:LEU:N	1:D:221:GLN:HG2	2.24	0.53
1:G:217:THR:C	1:G:221:GLN:NE2	2.62	0.53
1:G:493:HIS:ND1	1:G:514:ASP:OD2	2.41	0.53
1:G:530:MET:CE	4:V:354:GLN:HG3	2.34	0.53
1:G:584:TYR:CD1	1:G:585:ALA:N	2.77	0.53
1:G:725:ARG:HG3	1:G:733:PRO:CA	2.36	0.53
1:J:135:TYR:HD2	1:J:191:ARG:HG2	1.73	0.53
1:J:661:MET:O	1:J:665:ARG:HG3	2.09	0.53
1:J:829:TRP:CH2	2:K:83:MET:HE3	2.44	0.53
1:M:135:TYR:HD2	1:M:191:ARG:HD3	1.73	0.53
1:M:546:THR:HG21	4:2:48:GLY:CA	2.39	0.53
1:M:584:TYR:CD1	1:M:585:ALA:N	2.77	0.53
1:M:798:LEU:HD11	3:O:126:LEU:CD2	2.38	0.53
1:P:32:PHE:CD1	1:P:83:PRO:HD3	2.43	0.53
1:P:584:TYR:CD1	1:P:585:ALA:N	2.77	0.53
1:P:726:VAL:HG11	3:R:80:ASP:CG	2.29	0.53
4:2:287:ILE:HG22	4:4:204:ALA:H	1.69	0.53
4:2:288:ASP:CB	4:4:203:THR:CG2	2.86	0.53
4:6:185:LEU:HD23	4:6:306:TYR:OH	2.09	0.53
4:7:288:ASP:CA	4:9:204:ALA:HB2	2.31	0.53
4:V:185:LEU:HD23	4:V:306:TYR:OH	2.09	0.53
4:X:185:LEU:HD23	4:X:306:TYR:OH	2.09	0.53
1:A:277:PHE:CG	1:A:278:GLN:N	2.76	0.53
1:A:640:LYS:C	4:8:23:GLY:CA	2.64	0.53
1:D:154:HIS:CE1	1:D:156:PHE:HD2	2.26	0.53
1:D:529:PRO:HB2	4:9:354:GLN:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:MLY:O	4:W:48:GLY:CA	2.56	0.53
1:D:636:LYS:HB2	4:9:334:GLU:OE1	2.09	0.53
1:D:799:MET:SD	3:F:32:ASP:OD2	2.65	0.53
1:G:135:TYR:HD2	1:G:191:ARG:HD3	1.73	0.53
3:I:49:ILE:CA	3:I:52:ASN:ND2	2.53	0.53
1:J:154:HIS:CE1	1:J:156:PHE:HD2	2.26	0.53
1:J:251:ARG:HB2	1:J:264:ASP:HB2	1.91	0.53
1:J:506:GLU:HG3	1:J:760:PHE:O	2.07	0.53
1:J:765:VAL:HG12	1:J:766:PHE:N	2.22	0.53
1:M:218:LEU:N	1:M:221:GLN:HG2	2.24	0.53
1:M:529:PRO:HB2	4:Z:354:GLN:HA	1.91	0.53
1:P:135:TYR:HD2	1:P:191:ARG:HD3	1.73	0.53
1:P:295:MLY:HE2	1:P:332:MET:HE1	1.91	0.53
1:P:638:GLY:HA2	4:1:345:ILE:H	1.72	0.53
4:1:185:LEU:HD23	4:1:306:TYR:OH	2.08	0.53
1:D:571:ALA:O	1:D:572:LYS:CB	2.56	0.53
1:D:584:TYR:CD1	1:D:585:ALA:N	2.76	0.53
1:D:635:GLY:HA3	4:9:334:GLU:CG	2.30	0.53
3:F:53:PRO:HB2	3:F:55:LYS:HG3	1.91	0.53
1:G:32:PHE:CD1	1:G:83:PRO:HD3	2.44	0.53
1:G:42:HIS:HB3	1:G:45:GLN:O	2.09	0.53
1:G:277:PHE:CG	1:G:278:GLN:N	2.76	0.53
1:G:404:PRO:HG3	1:G:417:GLU:HG3	1.91	0.53
1:G:735:GLY:O	1:G:743:ALA:HA	1.94	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:C	2.59	0.53
1:J:817:GLN:CG	2:K:127:ARG:CG	2.83	0.53
1:M:277:PHE:CG	1:M:278:GLN:N	2.76	0.53
1:M:292:MET:HE1	1:M:309:PRO:CD	2.39	0.53
1:M:404:PRO:CG	1:M:417:GLU:HG3	2.38	0.53
1:M:794:CYS:O	1:M:798:LEU:N	2.37	0.53
1:P:576:GLU:CG	1:P:577:ALA:N	2.43	0.53
1:P:642:LYS:CG	4:1:22:ALA:HA	2.37	0.53
1:P:724:TYR:CZ	1:P:775:LEU:HB3	2.24	0.53
1:P:732:ILE:HG23	1:P:747:LEU:CD1	1.05	0.53
1:P:782:MLY:CH2	3:R:80:ASP:CA	2.87	0.53
1:P:836:PHE:CD2	2:Q:160:GLY:N	2.73	0.53
3:R:92:ARG:HA	3:R:139:TYR:OH	2.08	0.53
4:W:288:ASP:H	4:Y:204:ALA:H	1.56	0.53
1:A:135:TYR:HD2	1:A:191:ARG:HD3	1.73	0.53
1:A:206:LYS:HD2	1:A:217:THR:CG2	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:ASP:O	1:A:224:SER:N	2.27	0.53
1:D:42:HIS:HB3	1:D:45:GLN:O	2.09	0.53
1:D:539:GLU:OE2	4:W:45:VAL:C	2.47	0.53
1:G:135:TYR:CD2	1:G:191:ARG:HG2	2.44	0.53
1:G:470:PHE:O	1:G:473:ASN:ND2	2.40	0.53
1:G:530:MET:CA	4:V:354:GLN:HB3	2.35	0.53
1:G:599:ASN:CG	1:G:649:VAL:H	2.12	0.53
1:G:739:ASP:CB	1:G:742:LYS:CB	2.81	0.53
2:H:114:LYS:O	2:H:147:ASN:ND2	2.41	0.53
3:I:53:PRO:HB2	3:I:55:LYS:HG3	1.91	0.53
3:I:110:VAL:HG13	3:I:114:LEU:HD12	1.91	0.53
1:J:817:GLN:HG2	2:K:127:ARG:HB3	1.81	0.53
1:J:829:TRP:CH2	2:K:84:PHE:CE1	2.96	0.53
1:M:32:PHE:CD1	1:M:83:PRO:HD3	2.44	0.53
1:M:571:ALA:O	1:M:572:LYS:CB	2.56	0.53
1:M:599:ASN:CG	1:M:649:VAL:H	2.12	0.53
1:M:800:ARG:C	3:O:149:VAL:HG21	2.29	0.53
4:1:205:GLU:HB2	4:Y:287:ILE:HD13	1.90	0.53
4:3:185:LEU:HD23	4:3:306:TYR:OH	2.09	0.53
4:7:185:LEU:HD23	4:7:306:TYR:OH	2.09	0.53
4:9:288:ASP:CA	4:W:204:ALA:HB2	2.31	0.53
1:A:135:TYR:CD2	1:A:191:ARG:HG2	2.44	0.53
1:A:556:ASP:HB3	4:V:43:VAL:HG12	1.91	0.53
1:D:277:PHE:CG	1:D:278:GLN:N	2.76	0.53
1:D:410:ASN:CG	4:9:334:GLU:C	2.65	0.53
1:D:556:ASP:HB3	4:W:43:VAL:HG12	1.91	0.53
1:G:156:PHE:HD1	1:G:195:TYR:CD1	2.27	0.53
1:G:721:LYS:C	1:G:736:GLN:OE1	2.46	0.53
1:J:529:PRO:HB2	4:W:354:GLN:HA	1.91	0.53
3:L:92:ARG:HA	3:L:139:TYR:OH	2.08	0.53
1:M:220:ASP:O	1:M:224:SER:N	2.27	0.53
1:M:404:PRO:HG3	1:M:417:GLU:HG3	1.91	0.53
1:M:630:ALA:HA	4:Z:25:ASP:OD2	2.07	0.53
1:M:661:MET:O	1:M:665:ARG:HG3	2.09	0.53
1:M:722:GLN:OE1	3:O:86:ASP:HA	2.08	0.53
1:M:793:ARG:HA	3:O:40:ASN:HB3	1.88	0.53
2:N:114:LYS:O	2:N:147:ASN:ND2	2.41	0.53
1:P:251:ARG:HB2	1:P:264:ASP:HB2	1.91	0.53
1:P:404:PRO:HG3	1:P:417:GLU:HG3	1.91	0.53
1:P:529:PRO:HB2	4:1:354:GLN:HA	1.91	0.53
1:P:579:PHE:CD2	1:P:592:ILE:HD11	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:185:LEU:HD23	4:W:306:TYR:OH	2.08	0.53
1:A:218:LEU:N	1:A:221:GLN:HG2	2.23	0.53
1:A:404:PRO:HG3	1:A:417:GLU:HG3	1.91	0.53
1:A:470:PHE:O	1:A:473:ASN:ND2	2.40	0.53
1:A:502:GLU:HG2	1:A:766:PHE:CD1	2.44	0.53
1:A:530:MET:CE	4:8:354:GLN:HG3	2.35	0.53
1:A:553:MLY:HG3	4:V:44:MET:O	2.07	0.53
1:A:823:PHE:CE1	2:B:161:GLU:N	2.77	0.53
3:C:92:ARG:HA	3:C:139:TYR:OH	2.08	0.53
1:D:295:MLY:HE2	1:D:332:MET:HE1	1.91	0.53
1:D:791:GLN:O	1:D:794:CYS:HB2	2.08	0.53
1:G:292:MET:CE	1:G:309:PRO:HA	2.39	0.53
1:G:642:LYS:CG	4:V:22:ALA:CA	2.80	0.53
1:G:830:PRO:HG3	2:H:67:MET:HE2	1.87	0.53
1:G:834:LEU:CD2	2:H:34:ILE:CG1	2.86	0.53
1:J:404:PRO:CG	1:J:417:GLU:HG3	2.38	0.53
1:M:109:ARG:O	1:M:114:MET:N	2.37	0.53
1:M:640:LYS:C	4:Z:23:GLY:CA	2.64	0.53
1:M:831:TRP:HE1	2:N:67:MET:CB	2.18	0.53
1:P:218:LEU:N	1:P:221:GLN:HG2	2.23	0.53
4:W:325:MET:SD	4:Y:244:ASP:HB3	2.43	0.53
1:A:295:MLY:HE2	1:A:332:MET:HE1	1.90	0.53
1:A:661:MET:O	1:A:665:ARG:HG3	2.09	0.53
1:D:135:TYR:CD2	1:D:191:ARG:HG2	2.44	0.53
1:D:800:ARG:HB3	3:F:149:VAL:CG2	2.39	0.53
1:G:295:MLY:HE2	1:G:332:MET:HE1	1.90	0.53
2:H:114:LYS:N	2:H:146:GLY:O	2.40	0.53
1:J:292:MET:CE	1:J:309:PRO:HA	2.39	0.53
1:J:638:GLY:HA2	4:W:345:ILE:H	1.71	0.53
1:M:84:MLY:HB3	1:M:780:ASP:CG	2.27	0.53
1:M:251:ARG:HB2	1:M:264:ASP:HB2	1.91	0.53
2:N:121:LEU:CA	2:N:128:PHE:CG	2.89	0.53
1:P:797:PHE:CE1	3:R:146:ILE:CB	2.92	0.53
4:Y:185:LEU:HD23	4:Y:306:TYR:OH	2.09	0.53
4:Z:185:LEU:HD23	4:Z:306:TYR:OH	2.09	0.53
1:A:636:LYS:HB2	4:8:334:GLU:OE1	2.08	0.52
1:D:795:ARG:HH21	3:F:116:GLU:HG2	1.67	0.52
2:H:121:LEU:CA	2:H:128:PHE:CG	2.89	0.52
1:J:135:TYR:CD2	1:J:191:ARG:HG2	2.44	0.52
1:J:404:PRO:HG3	1:J:417:GLU:HG3	1.91	0.52
1:J:830:PRO:HB3	2:K:67:MET:CE	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:834:LEU:CD1	2:K:51:PHE:CD1	2.87	0.52
2:K:114:LYS:HA	2:K:147:ASN:HD22	1.74	0.52
1:M:197:ALA:O	1:M:201:ALA:HB2	2.10	0.52
1:M:642:LYS:CA	4:Z:22:ALA:C	2.70	0.52
1:P:42:HIS:HB3	1:P:45:GLN:O	2.09	0.52
2:Q:114:LYS:HA	2:Q:147:ASN:HD22	1.74	0.52
3:R:52:ASN:HB2	3:R:53:PRO:CD	2.28	0.52
4:1:110:LEU:CB	4:2:195:GLU:HG3	2.38	0.52
1:A:42:HIS:HB3	1:A:45:GLN:O	2.09	0.52
1:A:404:PRO:CG	1:A:417:GLU:HG3	2.38	0.52
1:A:584:TYR:CD1	1:A:585:ALA:N	2.77	0.52
1:A:793:ARG:HH21	3:C:147:MET:HE3	1.74	0.52
1:G:63:MLY:HG3	1:G:64:THR:H	1.74	0.52
1:G:218:LEU:N	1:G:221:GLN:HG2	2.24	0.52
1:G:661:MET:O	1:G:665:ARG:HG3	2.09	0.52
1:J:491:PHE:HD1	1:J:671:PHE:CE2	2.27	0.52
1:M:295:MLY:HE2	1:M:332:MET:HE1	1.91	0.52
2:N:114:LYS:HA	2:N:147:ASN:HD22	1.74	0.52
2:N:129:THR:O	2:N:133:ILE:HG13	2.09	0.52
1:P:494:HIS:O	1:P:498:LEU:HB2	2.09	0.52
1:P:829:TRP:CE3	2:Q:87:LYS:NZ	2.48	0.52
4:2:285:CYS:O	4:2:290:ARG:NH1	2.43	0.52
4:4:324:THR:H	4:6:244:ASP:HA	1.73	0.52
4:5:180:LEU:HD22	4:5:267:ILE:HD11	1.92	0.52
4:8:185:LEU:HD23	4:8:306:TYR:OH	2.08	0.52
4:Y:285:CYS:O	4:Y:290:ARG:NH1	2.43	0.52
1:A:494:HIS:O	1:A:498:LEU:HB2	2.09	0.52
1:A:538:GLU:HA	4:8:349:LEU:CB	2.39	0.52
1:A:538:GLU:HG3	4:8:352:PHE:CA	2.38	0.52
3:C:53:PRO:HB2	3:C:55:LYS:HG3	1.91	0.52
1:D:599:ASN:CG	1:D:649:VAL:H	2.12	0.52
3:F:110:VAL:HG13	3:F:114:LEU:HD12	1.91	0.52
1:G:197:ALA:O	1:G:201:ALA:HB2	2.09	0.52
2:H:112:ILE:C	2:H:147:ASN:O	2.42	0.52
1:J:756:THR:CB	1:J:776:GLU:OE1	2.57	0.52
1:M:42:HIS:HB3	1:M:45:GLN:O	2.09	0.52
1:M:98:HIS:HB3	1:M:100:PRO:CD	2.25	0.52
1:P:470:PHE:O	1:P:473:ASN:ND2	2.40	0.52
1:P:795:ARG:HG2	3:R:118:MET:CE	2.40	0.52
2:Q:114:LYS:O	2:Q:147:ASN:ND2	2.41	0.52
3:R:53:PRO:HB2	3:R:55:LYS:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:245:GLY:H	4:Y:291:LYS:CB	2.22	0.52
4:6:180:LEU:HD22	4:6:267:ILE:HD11	1.92	0.52
4:9:180:LEU:HD22	4:9:267:ILE:HD11	1.92	0.52
1:A:251:ARG:HB2	1:A:264:ASP:HB2	1.91	0.52
1:A:599:ASN:CG	1:A:649:VAL:H	2.12	0.52
1:A:643:GLY:N	4:8:23:GLY:C	2.55	0.52
1:A:739:ASP:CB	1:A:742:LYS:CB	2.81	0.52
1:G:642:LYS:HG2	4:V:22:ALA:C	2.27	0.52
1:G:788:THR:O	3:I:42:THR:CG2	2.51	0.52
1:J:42:HIS:HB3	1:J:45:GLN:O	2.09	0.52
1:J:63:MLY:HG3	1:J:64:THR:H	1.75	0.52
1:J:232:PHE:CE1	1:J:287:ILE:HD13	2.44	0.52
1:J:494:HIS:O	1:J:498:LEU:HB2	2.09	0.52
2:N:112:ILE:C	2:N:147:ASN:O	2.42	0.52
3:O:104:GLY:HA2	3:O:137:ILE:HD11	1.92	0.52
1:P:154:HIS:CE1	1:P:156:PHE:HD2	2.26	0.52
1:P:491:PHE:HD1	1:P:671:PHE:CE2	2.27	0.52
2:Q:144:VAL:HG12	2:Q:153:ILE:HD11	1.75	0.52
4:4:322:PRO:C	4:6:244:ASP:HB2	2.30	0.52
4:9:185:LEU:HD23	4:9:306:TYR:OH	2.09	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:Y:180:LEU:HD22	4:Y:267:ILE:HD11	1.92	0.52
4:Z:285:CYS:O	4:Z:290:ARG:NH1	2.43	0.52
1:D:128:PRO:O	1:D:129:TYR:HB2	2.09	0.52
1:D:838:ILE:HD13	2:E:54:MET:HE1	1.88	0.52
3:F:104:GLY:HA2	3:F:137:ILE:HD11	1.92	0.52
1:G:530:MET:HA	4:V:354:GLN:CD	2.11	0.52
1:J:156:PHE:HD1	1:J:195:TYR:CD1	2.27	0.52
1:J:796:GLY:HA2	3:L:35:ARG:NE	2.25	0.52
1:M:135:TYR:CD2	1:M:191:ARG:HG2	2.44	0.52
1:M:156:PHE:HD1	1:M:195:TYR:CD1	2.27	0.52
1:M:723:ARG:HH11	1:M:779:ARG:NE	2.05	0.52
1:P:636:LYS:HB2	4:1:334:GLU:OE1	2.09	0.52
4:1:180:LEU:HD22	4:1:267:ILE:HD11	1.92	0.52
4:3:285:CYS:O	4:3:290:ARG:NH1	2.43	0.52
4:8:180:LEU:HD22	4:8:267:ILE:HD11	1.92	0.52
4:8:285:CYS:O	4:8:290:ARG:NH1	2.43	0.52
4:V:285:CYS:O	4:V:290:ARG:NH1	2.43	0.52
4:V:324:THR:HG22	4:X:247:VAL:HG13	1.91	0.52
4:W:180:LEU:HD22	4:W:267:ILE:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:W:285:CYS:O	4:W:290:ARG:NH1	2.43	0.52
4:Z:180:LEU:HD22	4:Z:267:ILE:HD11	1.92	0.52
1:A:556:ASP:CA	4:V:49:GLN:O	2.52	0.52
1:A:791:GLN:CD	3:C:116:GLU:N	2.43	0.52
2:B:114:LYS:O	2:B:147:ASN:ND2	2.41	0.52
2:B:129:THR:O	2:B:133:ILE:HG13	2.09	0.52
3:C:110:VAL:HG13	3:C:114:LEU:HD12	1.91	0.52
1:D:40:VAL:HG13	1:D:41:VAL:O	2.10	0.52
1:D:41:VAL:HG13	1:D:42:HIS:N	2.25	0.52
1:D:109:ARG:HD3	1:D:117:THR:HB	1.92	0.52
1:G:503:TYR:CE1	1:G:711:PHE:HE2	2.14	0.52
1:G:538:GLU:HG3	4:V:352:PHE:CA	2.38	0.52
1:G:818:TYR:HH	2:H:127:ARG:NH2	1.98	0.52
1:G:834:LEU:HD22	2:H:34:ILE:HD11	1.89	0.52
1:J:636:LYS:HB2	4:W:334:GLU:OE1	2.09	0.52
1:J:829:TRP:HZ3	2:K:84:PHE:CE2	2.28	0.52
1:M:530:MET:HG2	4:Z:354:GLN:HB2	0.57	0.52
1:M:642:LYS:HG2	4:Z:21:PHE:C	2.29	0.52
1:M:799:MET:SD	3:O:32:ASP:HA	2.49	0.52
3:O:110:VAL:HG13	3:O:114:LEU:HD12	1.92	0.52
1:P:232:PHE:CE1	1:P:287:ILE:HD13	2.44	0.52
1:P:635:GLY:HA3	4:1:334:GLU:CG	2.30	0.52
1:P:726:VAL:CG1	3:R:80:ASP:CG	2.78	0.52
4:1:285:CYS:O	4:1:290:ARG:NH1	2.43	0.52
4:3:180:LEU:HD22	4:3:267:ILE:HD11	1.92	0.52
4:4:180:LEU:HD22	4:4:267:ILE:HD11	1.92	0.52
4:5:185:LEU:HD23	4:5:306:TYR:OH	2.08	0.52
4:7:180:LEU:HD22	4:7:267:ILE:HD11	1.92	0.52
4:X:291:LYS:HD2	4:Z:246:GLN:HB3	1.84	0.52
1:A:156:PHE:HD1	1:A:195:TYR:CD1	2.27	0.52
1:A:530:MET:HG2	4:8:354:GLN:HB2	0.57	0.52
1:A:792:ALA:CA	3:C:42:THR:HG22	2.36	0.52
1:A:801:VAL:N	3:C:149:VAL:HG21	2.24	0.52
1:D:135:TYR:HD2	1:D:191:ARG:CD	2.23	0.52
1:D:156:PHE:HD1	1:D:195:TYR:CD1	2.27	0.52
1:D:232:PHE:CE1	1:D:287:ILE:HD13	2.44	0.52
1:G:529:PRO:HB2	4:V:354:GLN:HA	1.92	0.52
1:J:725:ARG:O	1:J:729:ALA:HA	2.10	0.52
1:J:795:ARG:CG	3:L:116:GLU:OE2	2.57	0.52
1:J:795:ARG:HG2	3:L:118:MET:HE1	1.90	0.52
1:J:796:GLY:HA2	3:L:35:ARG:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:95:THR:O	1:M:769:ALA:HB1	2.09	0.52
1:M:612:GLN:HE22	1:M:627:GLY:HA2	1.66	0.52
1:M:636:LYS:HB2	4:Z:334:GLU:OE1	2.09	0.52
3:O:46:ILE:O	3:O:50:LEU:CG	2.47	0.52
1:P:292:MET:HE1	1:P:309:PRO:HD3	1.91	0.52
1:P:821:ARG:NH1	2:Q:127:ARG:NE	2.57	0.52
3:R:110:VAL:HG13	3:R:114:LEU:HD12	1.91	0.52
4:2:287:ILE:CG2	4:4:202:THR:CA	2.81	0.52
4:X:180:LEU:HD22	4:X:267:ILE:HD11	1.92	0.52
1:A:197:ALA:O	1:A:201:ALA:HB2	2.10	0.52
1:A:212:GLY:O	1:A:213:LYS:HB2	2.10	0.52
1:A:499:GLU:CD	1:A:766:PHE:HE2	2.11	0.52
1:A:539:GLU:OE2	4:V:45:VAL:C	2.47	0.52
1:A:795:ARG:CB	3:C:35:ARG:NH2	2.60	0.52
2:B:114:LYS:N	2:B:146:GLY:O	2.40	0.52
1:D:404:PRO:HG3	1:D:417:GLU:HG3	1.91	0.52
1:J:135:TYR:HD2	1:J:191:ARG:CD	2.23	0.52
1:J:538:GLU:HA	4:W:349:LEU:CB	2.40	0.52
1:J:796:GLY:N	3:L:35:ARG:CZ	2.73	0.52
1:M:40:VAL:HG13	1:M:41:VAL:O	2.10	0.52
1:M:41:VAL:HG13	1:M:42:HIS:N	2.25	0.52
1:M:232:PHE:CE1	1:M:287:ILE:HD13	2.44	0.52
1:M:295:MLY:CG	1:M:332:MET:HE1	2.40	0.52
1:M:506:GLU:OE2	1:M:764:MLY:HG3	2.09	0.52
1:M:649:VAL:HA	1:M:649:VAL:HG23	1.83	0.52
1:P:63:MLY:HG3	1:P:64:THR:H	1.75	0.52
1:P:538:GLU:HA	4:1:349:LEU:CB	2.40	0.52
3:R:104:GLY:HA2	3:R:137:ILE:HD11	1.92	0.52
4:2:180:LEU:HD22	4:2:267:ILE:HD11	1.92	0.52
4:7:285:CYS:O	4:7:290:ARG:NH1	2.43	0.52
1:A:278:GLN:HG3	1:A:318:GLY:H	1.75	0.52
2:B:117:LEU:CG	2:B:147:ASN:OD1	2.52	0.52
1:D:251:ARG:HB2	1:D:264:ASP:HB2	1.91	0.52
1:D:538:GLU:HA	4:9:349:LEU:CB	2.39	0.52
1:D:742:LYS:O	1:D:745:GLU:HB2	2.10	0.52
2:E:137:TRP:CA	2:E:145:ALA:CB	2.82	0.52
1:G:41:VAL:HG13	1:G:42:HIS:N	2.25	0.52
1:G:128:PRO:O	1:G:129:TYR:HB2	2.09	0.52
1:G:838:ILE:CG1	2:H:54:MET:HE1	2.40	0.52
2:H:114:LYS:HA	2:H:147:ASN:HD22	1.75	0.52
1:J:109:ARG:HD3	1:J:117:THR:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:408:VAL:CG1	4:W:332:PRO:HB3	2.40	0.52
1:M:128:PRO:O	1:M:129:TYR:HB2	2.09	0.52
1:M:154:HIS:CE1	1:M:156:PHE:HD2	2.26	0.52
1:M:221:GLN:HB2	1:M:449:LEU:HD11	1.92	0.52
3:O:53:PRO:HB2	3:O:55:LYS:HG3	1.91	0.52
1:P:135:TYR:HD2	1:P:191:ARG:CD	2.23	0.52
1:P:839:MLY:HH21	2:Q:158:THR:CG2	2.40	0.52
4:1:110:LEU:HB3	4:2:195:GLU:HG3	1.92	0.52
4:2:324:THR:CB	4:4:244:ASP:CA	2.82	0.52
4:9:285:CYS:O	4:9:290:ARG:NH1	2.43	0.52
1:A:22:LYS:O	1:A:26:GLU:N	2.30	0.52
1:A:63:MLY:HG3	1:A:64:THR:H	1.75	0.52
1:A:555:TYR:N	4:V:48:GLY:N	2.58	0.52
1:A:578:HIS:O	1:A:579:PHE:HB3	2.10	0.52
1:A:831:TRP:CG	2:B:51:PHE:CE1	2.97	0.52
1:D:212:GLY:O	1:D:213:LYS:HB2	2.10	0.52
1:D:221:GLN:HB2	1:D:449:LEU:HD11	1.92	0.52
1:D:400:ALA:HB1	1:D:606:THR:HG22	1.92	0.52
1:D:592:ILE:O	1:D:592:ILE:HG22	2.10	0.52
1:D:712:PRO:HB2	1:D:771:LEU:CB	2.39	0.52
1:D:713:SER:HB3	1:D:772:LEU:HD12	1.91	0.52
1:D:798:LEU:CD1	3:F:126:LEU:CD2	2.88	0.52
2:E:117:LEU:CG	2:E:147:ASN:OD1	2.52	0.52
1:G:109:ARG:HD3	1:G:117:THR:HB	1.92	0.52
2:H:129:THR:O	2:H:133:ILE:HG13	2.09	0.52
3:L:110:VAL:HG13	3:L:114:LEU:HD12	1.92	0.52
1:M:491:PHE:HD1	1:M:671:PHE:CE2	2.27	0.52
1:M:817:GLN:HB3	2:N:127:ARG:NH1	2.17	0.52
1:P:135:TYR:CD2	1:P:191:ARG:HG2	2.44	0.52
1:P:592:ILE:HG22	1:P:592:ILE:O	2.10	0.52
1:P:722:GLN:HE21	3:R:85:GLU:HB2	1.75	0.52
4:1:204:ALA:CB	4:Y:288:ASP:HB2	2.40	0.52
4:4:285:CYS:O	4:4:290:ARG:NH1	2.43	0.52
4:5:285:CYS:O	4:5:290:ARG:NH1	2.43	0.52
1:A:13:ALA:C	1:A:15:PRO:HD2	2.31	0.51
1:A:195:TYR:CE2	1:A:199:ILE:CD1	2.93	0.51
1:A:221:GLN:HB2	1:A:449:LEU:HD11	1.92	0.51
1:A:232:PHE:CE1	1:A:287:ILE:HD13	2.44	0.51
3:C:104:GLY:HA2	3:C:137:ILE:HD11	1.91	0.51
1:D:546:THR:CG2	1:D:548:THR:HB	2.41	0.51
1:D:762:HIS:CD2	1:D:762:HIS:N	2.79	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:40:VAL:HG13	1:G:41:VAL:O	2.10	0.51
3:I:100:GLY:O	3:I:138:ASN:HA	2.10	0.51
1:J:559:LEU:HD23	1:J:559:LEU:C	2.31	0.51
1:J:640:LYS:CA	1:J:645:SER:OG	2.58	0.51
1:M:725:ARG:O	1:M:729:ALA:HA	2.10	0.51
1:M:732:ILE:H	1:M:733:PRO:CD	2.23	0.51
1:M:805:ALA:C	1:M:808:GLU:N	2.64	0.51
1:P:221:GLN:HB2	1:P:449:LEU:HD11	1.92	0.51
1:P:530:MET:HG2	4:1:354:GLN:HB2	0.57	0.51
1:P:640:LYS:CA	1:P:645:SER:OG	2.58	0.51
4:1:204:ALA:O	4:Y:288:ASP:CB	2.41	0.51
1:A:40:VAL:HG13	1:A:41:VAL:O	2.10	0.51
1:A:41:VAL:HG13	1:A:42:HIS:N	2.25	0.51
1:A:128:PRO:O	1:A:129:TYR:HB2	2.09	0.51
1:A:491:PHE:HD1	1:A:671:PHE:CE2	2.27	0.51
1:A:725:ARG:O	1:A:729:ALA:HA	2.10	0.51
1:D:63:MLY:HG3	1:D:64:THR:H	1.75	0.51
1:D:292:MET:CE	1:D:309:PRO:HA	2.39	0.51
1:D:408:VAL:CG1	4:9:332:PRO:HB3	2.41	0.51
1:D:555:TYR:N	4:W:48:GLY:N	2.58	0.51
1:D:712:PRO:HB2	1:D:771:LEU:HD22	1.91	0.51
1:G:278:GLN:HG3	1:G:318:GLY:H	1.75	0.51
1:G:494:HIS:O	1:G:498:LEU:HB2	2.09	0.51
1:J:221:GLN:HB2	1:J:449:LEU:HD11	1.92	0.51
1:J:248:MLY:N	1:J:463:ASP:O	2.44	0.51
1:J:418:THR:CB	1:J:421:GLU:HG3	2.37	0.51
1:J:470:PHE:O	1:J:473:ASN:ND2	2.40	0.51
1:J:546:THR:CG2	1:J:548:THR:HB	2.41	0.51
1:J:578:HIS:O	1:J:579:PHE:HB3	2.11	0.51
1:J:592:ILE:HG22	1:J:592:ILE:O	2.10	0.51
1:M:63:MLY:HG3	1:M:64:THR:H	1.75	0.51
1:M:135:TYR:HD2	1:M:191:ARG:CD	2.23	0.51
1:M:195:TYR:CE2	1:M:199:ILE:CD1	2.93	0.51
1:M:640:LYS:CA	1:M:645:SER:OG	2.58	0.51
1:M:789:ALA:HB1	3:O:81:GLN:HG2	1.92	0.51
1:P:156:PHE:HD1	1:P:195:TYR:CD1	2.27	0.51
1:P:530:MET:HE3	4:1:354:GLN:CG	2.37	0.51
1:P:783:LEU:CA	1:P:786:ILE:HG13	2.39	0.51
4:1:166:TYR:CZ	4:3:64:ILE:HG22	2.44	0.51
4:2:287:ILE:HD13	4:4:203:THR:CA	2.41	0.51
1:A:292:MET:CE	1:A:309:PRO:HA	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:HG2	4:8:21:PHE:C	2.30	0.51
1:D:13:ALA:C	1:D:15:PRO:HD2	2.31	0.51
1:D:470:PHE:O	1:D:473:ASN:ND2	2.40	0.51
1:D:494:HIS:O	1:D:498:LEU:HB2	2.09	0.51
1:G:206:LYS:HD2	1:G:217:THR:CG2	2.17	0.51
1:G:491:PHE:HD1	1:G:671:PHE:CE2	2.27	0.51
1:G:640:LYS:C	4:V:23:GLY:CA	2.64	0.51
1:G:640:LYS:C	1:G:645:SER:HG	2.08	0.51
1:G:817:GLN:NE2	2:H:127:ARG:CB	2.64	0.51
1:J:84:MLY:CH1	1:J:720:PHE:HE1	2.16	0.51
1:J:195:TYR:CE2	1:J:199:ILE:CD1	2.93	0.51
1:J:197:ALA:O	1:J:201:ALA:HB2	2.10	0.51
1:M:538:GLU:HA	4:Z:349:LEU:CB	2.40	0.51
1:M:797:PHE:CZ	3:O:146:ILE:CG1	2.87	0.51
1:P:13:ALA:C	1:P:15:PRO:HD2	2.31	0.51
1:P:128:PRO:O	1:P:129:TYR:HB2	2.10	0.51
1:P:218:LEU:HA	1:P:221:GLN:HG3	1.71	0.51
2:Q:129:THR:O	2:Q:133:ILE:HG13	2.09	0.51
4:1:110:LEU:O	4:2:195:GLU:HG3	2.09	0.51
1:D:38:VAL:CG1	1:D:39:PHE:N	2.74	0.51
1:D:197:ALA:O	1:D:201:ALA:HB2	2.09	0.51
1:D:202:SER:HB2	1:D:207:LYS:NZ	2.26	0.51
1:D:491:PHE:HD1	1:D:671:PHE:CE2	2.27	0.51
1:D:578:HIS:O	1:D:579:PHE:HB3	2.11	0.51
1:D:725:ARG:O	1:D:729:ALA:HA	2.10	0.51
1:D:815:CYS:O	2:E:90:GLY:O	2.28	0.51
1:G:41:VAL:HG21	1:G:76:GLN:HG3	1.92	0.51
1:G:221:GLN:HB2	1:G:449:LEU:HD11	1.92	0.51
1:G:251:ARG:HB2	1:G:264:ASP:HB2	1.91	0.51
1:G:538:GLU:HA	4:V:349:LEU:CB	2.40	0.51
1:G:553:MLY:CB	4:X:45:VAL:O	2.57	0.51
1:J:13:ALA:C	1:J:15:PRO:HD2	2.31	0.51
1:J:38:VAL:CG1	1:J:39:PHE:N	2.74	0.51
1:J:202:SER:HB2	1:J:207:LYS:NZ	2.26	0.51
1:J:792:ALA:HB2	3:L:42:THR:N	2.24	0.51
2:K:129:THR:O	2:K:133:ILE:HG13	2.09	0.51
3:L:53:PRO:HB2	3:L:55:LYS:HG3	1.91	0.51
1:M:212:GLY:O	1:M:213:LYS:HB2	2.10	0.51
1:M:548:THR:HG1	4:2:48:GLY:HA3	1.73	0.51
1:P:267:THR:HG21	1:P:438:PHE:HE2	1.76	0.51
1:P:546:THR:CG2	1:P:548:THR:HB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:723:ARG:HE	1:P:779:ARG:N	2.08	0.51
1:P:786:ILE:O	1:P:789:ALA:N	2.42	0.51
2:Q:112:ILE:HG23	2:Q:147:ASN:HB3	1.92	0.51
4:1:202:THR:OG1	4:Y:286:ASP:C	2.47	0.51
4:9:287:ILE:HG22	4:W:204:ALA:HB3	1.91	0.51
2:B:114:LYS:HA	2:B:147:ASN:HD22	1.75	0.51
1:D:218:LEU:CD2	1:D:222:ILE:CG1	2.86	0.51
2:E:129:THR:O	2:E:133:ILE:HG13	2.09	0.51
1:G:640:LYS:CA	1:G:645:SER:OG	2.58	0.51
1:G:829:TRP:CZ3	2:H:84:PHE:CD1	2.98	0.51
1:G:838:ILE:HD13	2:H:33:VAL:CG1	2.41	0.51
1:J:40:VAL:HG13	1:J:41:VAL:O	2.10	0.51
1:J:128:PRO:O	1:J:129:TYR:HB2	2.09	0.51
1:J:418:THR:O	1:J:422:VAL:HG23	2.11	0.51
1:M:248:MLY:N	1:M:463:ASP:O	2.44	0.51
1:M:418:THR:O	1:M:422:VAL:HG23	2.11	0.51
1:M:494:HIS:O	1:M:498:LEU:HB2	2.09	0.51
1:M:687:GLU:O	1:M:691:VAL:HG23	2.11	0.51
1:P:41:VAL:HG13	1:P:42:HIS:N	2.25	0.51
1:P:202:SER:HB2	1:P:207:LYS:NZ	2.26	0.51
1:P:218:LEU:N	1:P:221:GLN:CG	2.74	0.51
1:P:725:ARG:O	1:P:729:ALA:HA	2.10	0.51
1:P:742:LYS:O	1:P:745:GLU:HB2	2.10	0.51
4:1:246:GLN:H	4:Y:291:LYS:CB	2.24	0.51
4:6:285:CYS:O	4:6:290:ARG:NH1	2.43	0.51
4:7:287:ILE:HG22	4:9:204:ALA:HB3	1.91	0.51
1:A:408:VAL:CG1	4:8:332:PRO:HB3	2.40	0.51
1:A:687:GLU:O	1:A:691:VAL:HG23	2.11	0.51
1:D:248:MLY:N	1:D:463:ASP:O	2.44	0.51
1:G:212:GLY:O	1:G:213:LYS:HB2	2.10	0.51
1:J:821:ARG:NH2	2:K:127:ARG:CD	2.73	0.51
1:M:13:ALA:C	1:M:15:PRO:HD2	2.31	0.51
1:M:41:VAL:HG21	1:M:76:GLN:HG3	1.93	0.51
1:P:732:ILE:H	1:P:733:PRO:HD2	1.74	0.51
1:A:149:GLN:HG2	1:A:719:ASP:CG	2.29	0.51
1:A:418:THR:O	1:A:422:VAL:HG23	2.11	0.51
1:A:559:LEU:HD23	1:A:559:LEU:C	2.31	0.51
1:D:559:LEU:HD23	1:D:559:LEU:C	2.31	0.51
1:D:640:LYS:C	4:9:23:GLY:CA	2.64	0.51
1:D:640:LYS:CA	1:D:645:SER:OG	2.58	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:195:TYR:CE2	1:G:199:ILE:CD1	2.93	0.51
1:G:220:ASP:O	1:G:224:SER:N	2.27	0.51
1:G:237:THR:O	1:G:240:ASN:O	2.29	0.51
1:G:248:MLY:N	1:G:463:ASP:O	2.44	0.51
1:G:732:ILE:HG23	1:G:747:LEU:CD1	1.04	0.51
2:H:112:ILE:HG23	2:H:147:ASN:HB3	1.93	0.51
1:J:41:VAL:HG21	1:J:76:GLN:HG3	1.92	0.51
1:J:742:LYS:O	1:J:745:GLU:HB2	2.10	0.51
2:K:114:LYS:O	2:K:147:ASN:ND2	2.41	0.51
1:M:791:GLN:HE22	3:O:116:GLU:N	2.09	0.51
1:M:805:ALA:O	1:M:809:ARG:CB	2.58	0.51
1:P:40:VAL:HG13	1:P:41:VAL:O	2.10	0.51
4:8:287:ILE:HG22	4:V:204:ALA:HB3	1.91	0.51
1:A:109:ARG:HD3	1:A:117:THR:HB	1.92	0.51
1:A:291:ILE:HA	1:A:331:LEU:CD1	2.39	0.51
1:A:640:LYS:CA	1:A:645:SER:OG	2.58	0.51
1:D:631:GLU:C	4:9:25:ASP:HB2	2.31	0.51
1:G:218:LEU:N	1:G:221:GLN:CG	2.74	0.51
1:G:411:GLU:H	4:V:333:PRO:CG	2.24	0.51
1:G:631:GLU:C	4:V:25:ASP:HB2	2.31	0.51
1:G:646:PHE:HE2	1:G:652:LEU:CG	2.24	0.51
3:I:104:GLY:HA2	3:I:137:ILE:HD11	1.92	0.51
1:J:169:ASP:N	1:J:169:ASP:OD1	2.44	0.51
1:J:631:GLU:C	4:W:25:ASP:HB2	2.31	0.51
1:M:578:HIS:O	1:M:579:PHE:HB3	2.11	0.51
1:M:592:ILE:HG22	1:M:592:ILE:O	2.10	0.51
1:P:218:LEU:CD2	1:P:222:ILE:CG1	2.86	0.51
1:P:675:ILE:CG2	1:P:676:ILE:N	2.74	0.51
1:P:792:ALA:CA	3:R:42:THR:HG22	2.41	0.51
2:Q:117:LEU:CG	2:Q:147:ASN:OD1	2.52	0.51
4:1:202:THR:OG1	4:Y:287:ILE:N	2.44	0.51
1:A:135:TYR:HD2	1:A:191:ARG:CD	2.23	0.51
1:A:237:THR:O	1:A:240:ASN:O	2.29	0.51
1:A:646:PHE:HE2	1:A:652:LEU:CG	2.24	0.51
1:A:742:LYS:O	1:A:745:GLU:HB2	2.10	0.51
2:B:112:ILE:HG23	2:B:147:ASN:HB3	1.92	0.51
1:D:798:LEU:CD2	3:F:122:GLU:HB3	2.41	0.51
1:D:800:ARG:CD	3:F:149:VAL:C	2.79	0.51
2:E:114:LYS:HA	2:E:147:ASN:HD22	1.74	0.51
1:G:400:ALA:HB1	1:G:606:THR:HG22	1.92	0.51
1:G:636:LYS:HB2	4:V:334:GLU:OE1	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:642:LYS:HG2	4:V:21:PHE:C	2.30	0.51
1:J:212:GLY:O	1:J:213:LYS:HB2	2.10	0.51
1:J:218:LEU:N	1:J:221:GLN:CG	2.74	0.51
1:J:400:ALA:HB1	1:J:606:THR:HG22	1.93	0.51
2:K:117:LEU:HG	2:K:147:ASN:HB3	1.93	0.51
1:M:278:GLN:HG3	1:M:318:GLY:H	1.75	0.51
1:M:724:TYR:CE1	1:M:775:LEU:CG	2.90	0.51
1:P:212:GLY:O	1:P:213:LYS:HB2	2.10	0.51
1:P:220:ASP:O	1:P:224:SER:N	2.27	0.51
1:P:311:ASP:HB2	1:P:312:TYR:CE1	2.46	0.51
1:P:418:THR:CB	1:P:421:GLU:HG3	2.37	0.51
1:P:687:GLU:O	1:P:691:VAL:HG23	2.11	0.51
2:Q:121:LEU:HA	2:Q:128:PHE:CD2	2.46	0.51
1:A:218:LEU:N	1:A:221:GLN:CG	2.74	0.51
1:A:400:ALA:HB1	1:A:606:THR:HG22	1.92	0.51
1:A:592:ILE:O	1:A:592:ILE:HG22	2.10	0.51
1:A:732:ILE:H	1:A:733:PRO:CD	2.23	0.51
1:D:169:ASP:OD1	1:D:169:ASP:N	2.44	0.51
1:D:195:TYR:CE2	1:D:199:ILE:CD1	2.93	0.51
1:G:84:MLY:NZ	1:G:723:ARG:HB3	2.26	0.51
1:G:109:ARG:O	1:G:114:MET:N	2.37	0.51
1:G:742:LYS:O	1:G:745:GLU:HB2	2.10	0.51
1:J:41:VAL:HG13	1:J:42:HIS:N	2.25	0.51
1:J:267:THR:HG21	1:J:438:PHE:HE2	1.76	0.51
1:J:311:ASP:HB2	1:J:312:TYR:CE1	2.46	0.51
1:M:169:ASP:N	1:M:169:ASP:OD1	2.44	0.51
3:O:100:GLY:O	3:O:138:ASN:HA	2.10	0.51
1:P:197:ALA:O	1:P:201:ALA:HB2	2.10	0.51
1:P:400:ALA:HB1	1:P:606:THR:HG22	1.93	0.51
1:P:796:GLY:HA2	3:R:35:ARG:CG	2.40	0.51
2:Q:112:ILE:C	2:Q:147:ASN:O	2.42	0.51
4:4:287:ILE:CG2	4:6:204:ALA:N	2.67	0.51
4:V:322:PRO:HB3	4:X:246:GLN:HG2	1.93	0.51
4:W:286:ASP:OD2	4:Y:203:THR:CG2	2.48	0.51
1:A:733:PRO:CA	1:A:737:PHE:CE1	2.95	0.50
1:A:797:PHE:CZ	3:C:146:ILE:HG23	2.45	0.50
1:D:217:THR:C	1:D:221:GLN:NE2	2.62	0.50
1:D:646:PHE:CE2	1:D:652:LEU:CD2	2.87	0.50
1:D:733:PRO:CA	1:D:737:PHE:CE1	2.94	0.50
1:G:232:PHE:CE1	1:G:287:ILE:HD13	2.45	0.50
1:G:418:THR:O	1:G:422:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:559:LEU:HD23	1:G:559:LEU:C	2.31	0.50
1:G:578:HIS:O	1:G:579:PHE:HB3	2.10	0.50
1:J:206:LYS:HD2	1:J:217:THR:CG2	2.17	0.50
1:J:237:THR:O	1:J:240:ASN:O	2.29	0.50
1:J:836:PHE:CE2	2:K:160:GLY:CA	2.94	0.50
3:L:104:GLY:HA2	3:L:137:ILE:HD11	1.92	0.50
1:M:109:ARG:HD3	1:M:117:THR:HB	1.92	0.50
1:M:202:SER:HB2	1:M:207:LYS:NZ	2.26	0.50
1:M:237:THR:O	1:M:240:ASN:O	2.29	0.50
1:M:742:LYS:O	1:M:745:GLU:HB2	2.10	0.50
2:N:112:ILE:HG23	2:N:147:ASN:HB3	1.92	0.50
2:N:114:LYS:N	2:N:146:GLY:O	2.40	0.50
1:P:109:ARG:HD3	1:P:117:THR:HB	1.92	0.50
1:P:169:ASP:N	1:P:169:ASP:OD1	2.44	0.50
1:P:195:TYR:CE2	1:P:199:ILE:CD1	2.93	0.50
1:P:237:THR:O	1:P:240:ASN:O	2.29	0.50
1:P:578:HIS:O	1:P:579:PHE:HB3	2.11	0.50
1:P:804:ARG:O	1:P:808:GLU:HB2	2.11	0.50
3:R:100:GLY:O	3:R:138:ASN:HA	2.11	0.50
4:4:287:ILE:HG22	4:6:204:ALA:HB3	1.91	0.50
1:A:346:ASP:O	1:A:349:THR:HB	2.11	0.50
1:A:429:LEU:O	1:A:433:VAL:HG23	2.12	0.50
3:C:100:GLY:O	3:C:138:ASN:HA	2.11	0.50
1:D:218:LEU:N	1:D:221:GLN:CG	2.74	0.50
1:D:418:THR:O	1:D:422:VAL:HG23	2.11	0.50
1:D:675:ILE:CG2	1:D:676:ILE:N	2.74	0.50
1:G:135:TYR:HD2	1:G:191:ARG:CD	2.23	0.50
1:G:506:GLU:HG2	1:G:760:PHE:N	2.27	0.50
1:G:795:ARG:HH21	3:I:116:GLU:CB	2.24	0.50
1:J:646:PHE:HE2	1:J:652:LEU:CG	2.25	0.50
1:J:675:ILE:CG2	1:J:676:ILE:N	2.74	0.50
1:M:154:HIS:CD2	1:M:155:ILE:H	2.30	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:629:GLU:CB	1:M:645:SER:N	2.73	0.50
1:M:732:ILE:HG23	1:M:747:LEU:CD1	1.04	0.50
1:M:733:PRO:CA	1:M:737:PHE:CE1	2.94	0.50
1:P:632:GLY:HA3	1:P:643:GLY:N	2.17	0.50
1:P:642:LYS:HG2	4:1:22:ALA:C	2.27	0.50
1:A:149:GLN:CD	1:A:716:LEU:CD2	2.53	0.50
1:D:311:ASP:HB2	1:D:312:TYR:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:346:ASP:O	1:D:349:THR:HB	2.11	0.50
1:D:418:THR:CB	1:D:421:GLU:HG3	2.37	0.50
1:D:798:LEU:CD1	3:F:126:LEU:HD13	2.29	0.50
1:D:800:ARG:CB	3:F:149:VAL:HG22	2.41	0.50
2:E:121:LEU:HA	2:E:128:PHE:CD2	2.46	0.50
1:G:202:SER:HB2	1:G:207:LYS:NZ	2.26	0.50
1:G:733:PRO:CA	1:G:737:PHE:CE1	2.95	0.50
1:J:93:MET:CE	1:J:716:LEU:HB2	2.42	0.50
1:J:346:ASP:O	1:J:349:THR:HB	2.11	0.50
1:J:429:LEU:O	1:J:433:VAL:HG23	2.12	0.50
2:K:112:ILE:HG23	2:K:147:ASN:HB3	1.93	0.50
1:M:217:THR:C	1:M:221:GLN:NE2	2.62	0.50
1:M:218:LEU:N	1:M:221:GLN:CG	2.74	0.50
1:M:629:GLU:CA	1:M:643:GLY:C	2.73	0.50
1:M:646:PHE:HE2	1:M:652:LEU:CG	2.25	0.50
1:P:248:MLY:N	1:P:463:ASP:O	2.44	0.50
1:P:418:THR:O	1:P:422:VAL:HG23	2.11	0.50
1:P:559:LEU:C	1:P:559:LEU:HD23	2.31	0.50
1:P:733:PRO:O	1:P:737:PHE:CE1	2.53	0.50
2:Q:117:LEU:HG	2:Q:147:ASN:HB3	1.93	0.50
4:X:287:ILE:HG21	4:Z:199:SER:C	2.25	0.50
1:A:629:GLU:CA	1:A:643:GLY:C	2.73	0.50
1:A:797:PHE:CE2	3:C:146:ILE:HG23	2.47	0.50
1:D:41:VAL:HG21	1:D:76:GLN:HG3	1.92	0.50
1:D:429:LEU:O	1:D:433:VAL:HG23	2.12	0.50
1:D:769:ALA:N	1:D:771:LEU:CA	2.53	0.50
1:G:13:ALA:C	1:G:15:PRO:HD2	2.31	0.50
1:G:169:ASP:N	1:G:169:ASP:OD1	2.44	0.50
1:G:346:ASP:O	1:G:349:THR:HB	2.11	0.50
1:G:642:LYS:CG	4:V:22:ALA:HA	2.37	0.50
1:G:715:VAL:O	1:G:764:MLY:HB3	2.12	0.50
1:J:733:PRO:CA	1:J:737:PHE:CE1	2.94	0.50
1:J:769:ALA:CB	1:J:770:GLY:HA3	2.39	0.50
3:L:100:GLY:O	3:L:138:ASN:HA	2.10	0.50
1:M:311:ASP:HB2	1:M:312:TYR:CE1	2.46	0.50
1:M:408:VAL:CG1	4:Z:332:PRO:HB3	2.40	0.50
1:M:803:TYR:O	1:M:807:VAL:CA	2.59	0.50
1:P:346:ASP:O	1:P:349:THR:HB	2.11	0.50
1:P:642:LYS:HG2	4:1:21:PHE:C	2.29	0.50
1:P:723:ARG:CD	1:P:779:ARG:CB	2.78	0.50
4:3:299:MET:HE2	4:3:331:ALA:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:VAL:CG1	1:A:39:PHE:N	2.74	0.50
1:A:169:ASP:OD1	1:A:169:ASP:N	2.44	0.50
1:A:631:GLU:C	4:8:25:ASP:HB2	2.31	0.50
1:A:715:VAL:O	1:A:764:MLY:HB3	2.12	0.50
1:D:629:GLU:CB	1:D:645:SER:N	2.74	0.50
1:D:831:TRP:HZ2	2:E:47:LEU:CD2	2.07	0.50
1:G:546:THR:CG2	1:G:548:THR:HB	2.41	0.50
1:G:687:GLU:O	1:G:691:VAL:HG23	2.11	0.50
1:J:22:LYS:O	1:J:26:GLU:N	2.29	0.50
1:J:214:MET:HA	1:J:340:ILE:CD1	2.41	0.50
1:J:409:GLY:N	1:J:636:LYS:CD	2.70	0.50
1:J:642:LYS:HG2	4:W:21:PHE:C	2.29	0.50
1:J:797:PHE:CZ	3:L:126:LEU:HD22	2.46	0.50
1:M:400:ALA:HB1	1:M:606:THR:HG22	1.93	0.50
1:M:538:GLU:CD	4:Z:355:MET:HE3	2.30	0.50
1:M:631:GLU:C	4:Z:25:ASP:HB2	2.31	0.50
1:M:642:LYS:HB2	4:Z:24:ASP:O	1.88	0.50
1:P:291:ILE:HA	1:P:331:LEU:CD1	2.39	0.50
1:P:718:ALA:CB	3:R:85:GLU:CG	2.90	0.50
1:A:248:MLY:N	1:A:463:ASP:O	2.44	0.50
1:A:546:THR:CG2	1:A:548:THR:HB	2.41	0.50
1:A:815:CYS:SG	2:B:92:ASP:OD1	2.68	0.50
2:B:121:LEU:CA	2:B:128:PHE:CG	2.89	0.50
1:D:128:PRO:O	1:D:683:PRO:HB3	2.12	0.50
1:D:237:THR:O	1:D:240:ASN:O	2.29	0.50
1:D:411:GLU:H	4:9:333:PRO:CG	2.24	0.50
1:G:38:VAL:CG1	1:G:39:PHE:N	2.74	0.50
1:G:291:ILE:HA	1:G:331:LEU:CD1	2.39	0.50
1:G:471:ASP:HB3	1:G:573:GLY:O	2.12	0.50
1:G:642:LYS:HB2	4:V:24:ASP:O	1.89	0.50
1:G:725:ARG:O	1:G:729:ALA:HA	2.10	0.50
1:G:834:LEU:HD23	2:H:34:ILE:HD11	1.91	0.50
1:J:411:GLU:H	4:W:333:PRO:CG	2.24	0.50
1:P:38:VAL:CG1	1:P:39:PHE:N	2.74	0.50
3:R:52:ASN:CB	3:R:53:PRO:HD3	2.28	0.50
4:2:287:ILE:CA	4:4:202:THR:HB	2.35	0.50
1:A:41:VAL:HG21	1:A:76:GLN:HG3	1.92	0.50
1:A:538:GLU:OE1	4:8:351:THR:HB	2.12	0.50
1:D:278:GLN:HG3	1:D:318:GLY:H	1.75	0.50
1:G:332:MET:O	1:G:336:SER:OG	2.27	0.50
1:G:817:GLN:HB3	2:H:127:ARG:HH11	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:834:LEU:HD12	2:H:51:PHE:CD1	2.46	0.50
2:H:144:VAL:HG12	2:H:153:ILE:HD11	1.75	0.50
1:J:687:GLU:O	1:J:691:VAL:HG23	2.11	0.50
1:J:732:ILE:O	1:J:736:GLN:HG3	2.11	0.50
1:J:792:ALA:HB2	3:L:42:THR:CA	2.42	0.50
1:J:829:TRP:CZ2	2:K:83:MET:CE	2.95	0.50
1:M:310:TYR:CE2	1:M:320:ILE:CD1	2.94	0.50
1:M:559:LEU:HD23	1:M:559:LEU:C	2.31	0.50
1:M:792:ALA:HB2	3:O:42:THR:CA	2.41	0.50
1:P:411:GLU:H	4:1:333:PRO:CG	2.24	0.50
1:P:429:LEU:O	1:P:433:VAL:HG23	2.12	0.50
1:P:471:ASP:HB3	1:P:573:GLY:O	2.12	0.50
1:P:715:VAL:O	1:P:764:MLY:HB3	2.12	0.50
1:P:800:ARG:CD	3:R:149:VAL:C	2.77	0.50
4:1:110:LEU:HB3	4:2:195:GLU:CG	2.41	0.50
4:7:70:PRO:HG3	4:7:81:ASP:HB3	1.94	0.50
1:A:595:TRP:N	1:A:595:TRP:CD1	2.80	0.50
1:A:791:GLN:OE1	3:C:116:GLU:N	2.43	0.50
1:D:601:ASP:N	1:D:602:PRO:CD	2.75	0.50
1:G:267:THR:HG21	1:G:438:PHE:HE2	1.76	0.50
1:G:592:ILE:HG22	1:G:592:ILE:O	2.11	0.50
1:G:813:ILE:CG2	2:H:128:PHE:HZ	2.09	0.50
1:J:642:LYS:HA	4:W:22:ALA:C	2.33	0.50
1:M:429:LEU:O	1:M:433:VAL:HG23	2.12	0.50
1:M:546:THR:CG2	1:M:548:THR:HB	2.41	0.50
1:M:715:VAL:O	1:M:764:MLY:HB3	2.12	0.50
1:M:759:ALA:O	1:M:766:PHE:N	2.32	0.50
2:N:117:LEU:HG	2:N:147:ASN:HB3	1.93	0.50
1:P:295:MLY:HG3	1:P:332:MET:HE2	1.92	0.50
1:P:547:ASP:O	1:P:550:PHE:HB3	2.12	0.50
1:P:782:MLY:CH2	3:R:80:ASP:HB3	2.31	0.50
4:6:70:PRO:HG3	4:6:81:ASP:HB3	1.94	0.50
4:W:285:CYS:O	4:Y:202:THR:HG22	2.11	0.50
4:W:318:THR:HA	4:W:327:ILE:HG12	1.94	0.50
4:Y:318:THR:HA	4:Y:327:ILE:HG12	1.94	0.50
1:A:251:ARG:O	1:A:263:ALA:HA	2.12	0.50
1:A:267:THR:HG21	1:A:438:PHE:HE2	1.76	0.50
1:A:311:ASP:HB2	1:A:312:TYR:CE1	2.46	0.50
1:A:471:ASP:HB3	1:A:573:GLY:O	2.12	0.50
1:A:601:ASP:N	1:A:602:PRO:CD	2.75	0.50
1:A:739:ASP:OD1	1:A:740:SER:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:768:MLY:HB2	1:A:771:LEU:HB2	1.76	0.50
1:A:769:ALA:C	1:A:772:LEU:H	2.12	0.50
1:D:154:HIS:CD2	1:D:155:ILE:H	2.30	0.50
1:D:547:ASP:O	1:D:550:PHE:HB3	2.12	0.50
1:G:154:HIS:CD2	1:G:155:ILE:H	2.30	0.50
1:G:733:PRO:O	1:G:737:PHE:CE1	2.53	0.50
2:K:114:LYS:N	2:K:146:GLY:O	2.40	0.50
3:L:46:ILE:O	3:L:50:LEU:CG	2.47	0.50
1:M:251:ARG:O	1:M:263:ALA:HA	2.12	0.50
1:M:642:LYS:CG	4:Z:22:ALA:HA	2.37	0.50
1:M:642:LYS:HA	4:Z:22:ALA:C	2.33	0.50
1:M:715:VAL:HG12	1:M:716:LEU:O	2.12	0.50
1:M:737:PHE:CE1	3:O:84:PHE:CZ	3.00	0.50
1:P:530:MET:HA	4:1:354:GLN:CD	2.11	0.50
1:P:769:ALA:C	1:P:771:LEU:H	2.13	0.50
4:1:318:THR:HA	4:1:327:ILE:HG12	1.94	0.50
4:4:70:PRO:HG3	4:4:81:ASP:HB3	1.94	0.50
4:8:290:ARG:HH22	4:V:202:THR:CG2	2.17	0.50
4:X:318:THR:HA	4:X:327:ILE:HG12	1.94	0.50
4:Y:265:SER:HB3	4:Z:39:ARG:HH22	1.77	0.50
4:Z:318:THR:HA	4:Z:327:ILE:HG12	1.94	0.50
1:A:202:SER:HB2	1:A:207:LYS:NZ	2.26	0.49
1:A:547:ASP:O	1:A:550:PHE:HB3	2.12	0.49
1:A:732:ILE:O	1:A:736:GLN:HG3	2.11	0.49
2:B:140:PHE:HB3	2:B:144:VAL:HG12	1.94	0.49
1:D:471:ASP:HB3	1:D:573:GLY:O	2.12	0.49
1:D:538:GLU:OE1	4:9:351:THR:HB	2.12	0.49
1:D:732:ILE:CD1	1:D:782:MLY:HH21	2.41	0.49
1:G:93:MET:HG2	1:G:715:VAL:CA	1.99	0.49
1:G:311:ASP:HB2	1:G:312:TYR:CE1	2.46	0.49
1:G:797:PHE:CZ	3:I:146:ILE:HD13	2.21	0.49
2:H:117:LEU:HG	2:H:147:ASN:HB3	1.93	0.49
1:J:128:PRO:O	1:J:683:PRO:HB3	2.12	0.49
1:J:168:THR:HG22	1:J:169:ASP:OD1	2.12	0.49
1:J:192:VAL:O	1:J:195:TYR:HB3	2.12	0.49
1:J:733:PRO:O	1:J:737:PHE:CE1	2.53	0.49
1:J:739:ASP:OD1	1:J:740:SER:N	2.45	0.49
1:J:839:MLY:N	1:J:840:PRO:CD	2.75	0.49
1:M:38:VAL:CG1	1:M:39:PHE:N	2.74	0.49
1:M:214:MET:HA	1:M:340:ILE:CD1	2.41	0.49
1:M:722:GLN:HE22	3:O:86:ASP:HA	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:114:LYS:HG3	2:N:137:TRP:CZ2	2.47	0.49
1:P:41:VAL:HG21	1:P:76:GLN:HG3	1.92	0.49
1:P:128:PRO:O	1:P:683:PRO:HB3	2.12	0.49
1:P:214:MET:HA	1:P:340:ILE:CD1	2.41	0.49
1:P:631:GLU:C	4:1:25:ASP:HB2	2.31	0.49
4:4:287:ILE:CB	4:6:204:ALA:H	2.24	0.49
1:A:93:MET:CE	1:A:716:LEU:H	2.24	0.49
1:A:411:GLU:H	4:8:333:PRO:CG	2.24	0.49
1:A:800:ARG:CD	3:C:149:VAL:C	2.80	0.49
1:D:267:THR:HG21	1:D:438:PHE:HE2	1.76	0.49
1:D:292:MET:HE1	1:D:309:PRO:HD3	1.94	0.49
1:D:739:ASP:OD1	1:D:740:SER:N	2.45	0.49
2:E:112:ILE:HG23	2:E:147:ASN:HB3	1.93	0.49
2:E:114:LYS:HG3	2:E:137:TRP:CZ2	2.47	0.49
1:G:251:ARG:O	1:G:263:ALA:HA	2.12	0.49
1:G:538:GLU:HA	4:V:351:THR:H	1.76	0.49
1:G:547:ASP:O	1:G:550:PHE:HB3	2.12	0.49
1:G:739:ASP:OD1	1:G:740:SER:N	2.45	0.49
1:G:789:ALA:HB1	3:I:81:GLN:NE2	2.26	0.49
1:J:471:ASP:HB3	1:J:573:GLY:O	2.12	0.49
1:J:725:ARG:NE	1:J:733:PRO:CB	1.95	0.49
1:M:192:VAL:O	1:M:195:TYR:HB3	2.12	0.49
1:M:291:ILE:HA	1:M:331:LEU:CD1	2.39	0.49
1:M:543:PRO:CD	4:Z:146:GLY:O	2.60	0.49
1:P:168:THR:HG22	1:P:169:ASP:OD1	2.12	0.49
1:P:192:VAL:O	1:P:195:TYR:HB3	2.13	0.49
1:P:409:GLY:N	1:P:636:LYS:CD	2.70	0.49
1:P:543:PRO:CD	4:1:146:GLY:O	2.61	0.49
1:P:733:PRO:CA	1:P:737:PHE:CE1	2.95	0.49
1:P:739:ASP:OD1	1:P:740:SER:N	2.45	0.49
1:P:756:THR:O	1:P:758:TYR:N	2.45	0.49
2:Q:93:PRO:O	2:Q:97:ILE:HG13	2.12	0.49
4:3:70:PRO:HG3	4:3:81:ASP:HB3	1.94	0.49
4:5:70:PRO:HG3	4:5:81:ASP:HB3	1.94	0.49
4:5:318:THR:HA	4:5:327:ILE:HG12	1.94	0.49
4:8:70:PRO:HG3	4:8:81:ASP:HB3	1.93	0.49
4:V:318:THR:HA	4:V:327:ILE:HG12	1.94	0.49
4:Y:299:MET:HE2	4:Y:331:ALA:HB2	1.94	0.49
1:A:41:VAL:CG1	1:A:42:HIS:N	2.75	0.49
1:A:168:THR:HG22	1:A:169:ASP:OD1	2.12	0.49
1:A:418:THR:CB	1:A:421:GLU:HG3	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:LYS:CG	4:8:22:ALA:HA	2.38	0.49
1:A:715:VAL:HG12	1:A:716:LEU:O	2.13	0.49
1:A:795:ARG:HD2	3:C:43:ASN:CG	2.33	0.49
1:D:20:SER:HB3	1:D:23:GLU:OE1	2.13	0.49
1:D:687:GLU:O	1:D:691:VAL:HG23	2.11	0.49
1:D:732:ILE:O	1:D:736:GLN:HG3	2.11	0.49
1:G:168:THR:HG22	1:G:169:ASP:OD1	2.12	0.49
1:G:732:ILE:O	1:G:736:GLN:HG3	2.12	0.49
1:G:798:LEU:HD23	3:I:118:MET:CB	2.29	0.49
2:H:114:LYS:HG3	2:H:137:TRP:CZ2	2.47	0.49
1:J:290:GLN:HG2	1:J:331:LEU:CA	2.43	0.49
1:J:543:PRO:CD	4:W:146:GLY:O	2.61	0.49
1:J:756:THR:O	1:J:758:TYR:N	2.45	0.49
2:K:121:LEU:HA	2:K:128:PHE:CD2	2.46	0.49
1:M:471:ASP:HB3	1:M:573:GLY:O	2.12	0.49
1:M:756:THR:O	1:M:758:TYR:N	2.45	0.49
1:M:839:MLY:HB2	1:M:840:PRO:HD3	1.94	0.49
1:P:154:HIS:CD2	1:P:155:ILE:H	2.30	0.49
1:P:538:GLU:OE1	4:1:351:THR:HB	2.12	0.49
1:P:732:ILE:O	1:P:736:GLN:HG3	2.12	0.49
1:P:813:ILE:HG23	2:Q:128:PHE:CE1	2.47	0.49
4:1:244:ASP:HB2	4:Y:291:LYS:C	2.32	0.49
4:2:318:THR:HA	4:2:327:ILE:HG12	1.94	0.49
4:3:318:THR:HA	4:3:327:ILE:HG12	1.94	0.49
4:6:318:THR:HA	4:6:327:ILE:HG12	1.94	0.49
4:9:318:THR:HA	4:9:327:ILE:HG12	1.94	0.49
1:A:154:HIS:CD2	1:A:155:ILE:H	2.29	0.49
1:A:176:LEU:N	1:A:176:LEU:CD1	2.74	0.49
1:A:720:PHE:CD2	1:A:744:SER:HB3	2.48	0.49
1:A:836:PHE:CE2	2:B:160:GLY:C	2.85	0.49
1:D:715:VAL:O	1:D:764:MLY:HB3	2.12	0.49
2:E:140:PHE:HB3	2:E:144:VAL:HG12	1.94	0.49
1:G:405:ARG:HB2	1:G:414:THR:OG1	2.13	0.49
1:G:408:VAL:CG1	4:V:332:PRO:HB3	2.41	0.49
1:G:530:MET:HG2	4:V:354:GLN:HB2	0.57	0.49
1:G:538:GLU:OE1	4:V:351:THR:HB	2.12	0.49
1:G:553:MLY:O	4:X:46:GLY:HA3	2.12	0.49
1:G:795:ARG:CG	3:I:118:MET:HE2	2.26	0.49
1:G:838:ILE:HD13	2:H:33:VAL:HG11	1.94	0.49
1:J:154:HIS:CD2	1:J:155:ILE:H	2.30	0.49
1:J:218:LEU:CD2	1:J:222:ILE:CG1	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:737:PHE:CE1	3:O:84:PHE:CE1	2.96	0.49
1:M:739:ASP:OD1	1:M:740:SER:N	2.45	0.49
1:P:642:LYS:HA	4:1:22:ALA:C	2.33	0.49
2:Q:114:LYS:HG3	2:Q:137:TRP:CZ2	2.48	0.49
2:Q:114:LYS:N	2:Q:146:GLY:O	2.40	0.49
4:2:253:GLU:HA	4:2:256:ARG:CG	2.42	0.49
4:7:318:THR:HA	4:7:327:ILE:HG12	1.94	0.49
4:8:318:THR:HA	4:8:327:ILE:HG12	1.94	0.49
4:9:70:PRO:HG3	4:9:81:ASP:HB3	1.94	0.49
4:W:70:PRO:HG3	4:W:81:ASP:HB3	1.94	0.49
4:X:70:PRO:HG3	4:X:81:ASP:HB3	1.94	0.49
4:X:287:ILE:CB	4:Z:199:SER:O	2.61	0.49
1:A:543:PRO:CD	4:8:146:GLY:O	2.61	0.49
1:A:831:TRP:HZ3	2:B:50:THR:CG2	1.62	0.49
1:D:168:THR:HG22	1:D:169:ASP:OD1	2.12	0.49
1:D:173:GLN:OE1	1:D:668:HIS:HB3	2.13	0.49
1:D:192:VAL:O	1:D:195:TYR:HB3	2.13	0.49
1:D:251:ARG:O	1:D:263:ALA:HA	2.12	0.49
1:D:715:VAL:HG12	1:D:716:LEU:O	2.12	0.49
1:G:202:SER:HA	1:G:207:LYS:NZ	2.22	0.49
1:G:429:LEU:O	1:G:433:VAL:HG23	2.12	0.49
1:G:601:ASP:N	1:G:602:PRO:CD	2.75	0.49
1:G:732:ILE:H	1:G:733:PRO:CD	2.23	0.49
1:J:291:ILE:HA	1:J:331:LEU:CD1	2.39	0.49
1:J:530:MET:HE3	4:W:354:GLN:HG2	1.84	0.49
1:J:538:GLU:OE1	4:W:351:THR:HB	2.12	0.49
1:J:601:ASP:N	1:J:602:PRO:CD	2.75	0.49
1:J:646:PHE:CE2	1:J:652:LEU:CD2	2.87	0.49
1:J:732:ILE:H	1:J:733:PRO:CD	2.23	0.49
1:M:97:LEU:HD13	1:M:97:LEU:N	2.28	0.49
1:M:538:GLU:OE1	4:Z:351:THR:HB	2.12	0.49
1:M:632:GLY:HA3	1:M:643:GLY:N	2.17	0.49
4:2:124:PHE:CZ	4:2:132:MET:HG3	2.48	0.49
1:D:97:LEU:HD13	1:D:97:LEU:N	2.27	0.49
2:E:121:LEU:O	2:E:128:PHE:CG	2.61	0.49
1:G:310:TYR:CE2	1:G:320:ILE:CD1	2.94	0.49
1:J:829:TRP:HH2	2:K:83:MET:HE3	1.75	0.49
1:M:20:SER:HB3	1:M:23:GLU:OE1	2.13	0.49
1:M:51:THR:C	1:M:62:VAL:HG13	2.32	0.49
1:M:237:THR:HG22	1:M:238:VAL:N	2.28	0.49
1:M:290:GLN:HG2	1:M:331:LEU:CA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:601:ASP:N	1:M:602:PRO:CD	2.75	0.49
1:M:675:ILE:CG2	1:M:676:ILE:N	2.74	0.49
1:M:732:ILE:O	1:M:736:GLN:HG3	2.12	0.49
2:N:121:LEU:O	2:N:128:PHE:CG	2.61	0.49
1:P:718:ALA:C	3:R:85:GLU:CD	2.65	0.49
4:6:124:PHE:CZ	4:6:132:MET:HG3	2.48	0.49
4:Y:70:PRO:HG3	4:Y:81:ASP:HB3	1.94	0.49
1:A:51:THR:C	1:A:62:VAL:HG13	2.32	0.49
1:A:64:THR:CG2	1:A:65:GLU:N	2.76	0.49
1:A:128:PRO:O	1:A:683:PRO:HB3	2.12	0.49
1:A:310:TYR:CE2	1:A:320:ILE:CD1	2.94	0.49
1:A:405:ARG:HB2	1:A:414:THR:OG1	2.13	0.49
1:A:632:GLY:HA3	1:A:643:GLY:N	2.17	0.49
1:A:753:VAL:HG11	1:A:775:LEU:HD23	1.95	0.49
2:B:93:PRO:O	2:B:97:ILE:HG13	2.12	0.49
2:B:128:PHE:O	2:B:133:ILE:HD11	2.13	0.49
1:D:214:MET:HA	1:D:340:ILE:CD1	2.41	0.49
1:D:530:MET:HE3	4:9:354:GLN:CB	2.43	0.49
1:D:642:LYS:HG3	4:9:23:GLY:CA	2.31	0.49
1:D:642:LYS:HG2	4:9:21:PHE:C	2.30	0.49
1:D:642:LYS:HB2	4:9:24:ASP:O	1.88	0.49
1:G:237:THR:HG22	1:G:238:VAL:N	2.28	0.49
1:G:418:THR:CB	1:G:421:GLU:HG3	2.37	0.49
1:G:732:ILE:HG21	1:G:747:LEU:CD1	0.64	0.49
1:G:754:ASP:HB2	1:G:776:GLU:CB	2.42	0.49
1:J:792:ALA:CB	3:L:42:THR:CA	2.91	0.49
1:J:795:ARG:NH1	3:L:44:ALA:N	2.26	0.49
2:K:93:PRO:O	2:K:97:ILE:HG13	2.12	0.49
1:M:128:PRO:O	1:M:683:PRO:HB3	2.12	0.49
1:M:312:TYR:N	1:M:312:TYR:CD1	2.81	0.49
1:M:839:MLY:N	1:M:840:PRO:CD	2.75	0.49
1:P:839:MLY:N	1:P:840:PRO:CD	2.75	0.49
3:R:50:LEU:O	3:R:55:LYS:HB2	2.13	0.49
4:1:70:PRO:HG3	4:1:81:ASP:HB3	1.94	0.49
4:1:124:PHE:CZ	4:1:132:MET:HG3	2.48	0.49
4:2:70:PRO:HG3	4:2:81:ASP:HB3	1.94	0.49
4:4:318:THR:HA	4:4:327:ILE:HG12	1.95	0.49
4:8:120:THR:HG21	4:8:370:VAL:HG11	1.95	0.49
4:W:124:PHE:CZ	4:W:132:MET:HG3	2.48	0.49
4:Z:124:PHE:CZ	4:Z:132:MET:HG3	2.48	0.49
1:A:97:LEU:HD13	1:A:97:LEU:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:THR:HG22	1:A:238:VAL:N	2.28	0.49
1:A:436:MLY:HE3	1:A:626:TYR:HE1	1.77	0.49
1:A:831:TRP:CG	2:B:51:PHE:HE1	2.30	0.49
1:D:237:THR:HG22	1:D:238:VAL:N	2.28	0.49
1:D:291:ILE:HA	1:D:331:LEU:CD1	2.39	0.49
1:D:756:THR:O	1:D:758:TYR:N	2.45	0.49
2:E:121:LEU:CA	2:E:128:PHE:CG	2.89	0.49
3:F:50:LEU:O	3:F:55:LYS:HB2	2.13	0.49
1:G:128:PRO:O	1:G:683:PRO:HB3	2.12	0.49
1:G:290:GLN:HG2	1:G:331:LEU:CA	2.43	0.49
1:G:543:PRO:CD	4:V:146:GLY:O	2.60	0.49
1:G:715:VAL:HG12	1:G:716:LEU:O	2.12	0.49
3:I:50:LEU:O	3:I:55:LYS:HB2	2.13	0.49
1:J:103:LEU:C	1:J:103:LEU:HD12	2.33	0.49
1:J:530:MET:HG2	4:W:354:GLN:HB2	0.57	0.49
1:J:538:GLU:HA	4:W:351:THR:H	1.77	0.49
1:J:538:GLU:CD	4:W:355:MET:HE3	2.29	0.49
1:J:664:LEU:HD12	1:J:664:LEU:HA	1.52	0.49
1:J:710:GLY:HA2	1:J:772:LEU:HD21	1.82	0.49
1:J:839:MLY:HB2	1:J:840:PRO:HD3	1.94	0.49
1:M:595:TRP:N	1:M:595:TRP:CD1	2.80	0.49
2:N:137:TRP:CA	2:N:145:ALA:CB	2.82	0.49
3:O:50:LEU:O	3:O:55:LYS:HB2	2.13	0.49
1:P:20:SER:HB3	1:P:23:GLU:OE1	2.13	0.49
1:P:95:THR:HG21	1:P:773:GLY:HA3	1.95	0.49
1:P:499:GLU:OE1	1:P:499:GLU:HA	2.13	0.49
2:Q:128:PHE:O	2:Q:133:ILE:HD11	2.13	0.49
4:5:198:TYR:CZ	4:5:248:ILE:HG13	2.48	0.49
4:X:198:TYR:CZ	4:X:248:ILE:HG13	2.48	0.49
1:A:20:SER:HB3	1:A:23:GLU:OE1	2.13	0.49
1:A:735:GLY:O	1:A:743:ALA:HA	1.94	0.49
2:B:121:LEU:HA	2:B:128:PHE:CD2	2.46	0.49
1:D:210:GLN:C	1:D:211:SER:HG	2.13	0.49
1:D:530:MET:HG2	4:9:354:GLN:HB2	0.57	0.49
1:D:642:LYS:CB	4:9:24:ASP:O	2.59	0.49
2:E:117:LEU:HG	2:E:147:ASN:HB3	1.93	0.49
1:G:192:VAL:O	1:G:195:TYR:HB3	2.13	0.49
1:G:642:LYS:CB	4:V:24:ASP:O	2.60	0.49
1:G:675:ILE:CG2	1:G:676:ILE:N	2.74	0.49
1:J:173:GLN:OE1	1:J:668:HIS:HB3	2.13	0.49
1:M:173:GLN:OE1	1:M:668:HIS:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:251:ARG:HB2	1:M:264:ASP:HB3	1.95	0.49
1:M:267:THR:HG21	1:M:438:PHE:HE2	1.76	0.49
1:M:405:ARG:HB2	1:M:414:THR:OG1	2.13	0.49
1:M:722:GLN:CD	3:O:86:ASP:CA	2.81	0.49
1:M:839:MLY:HH13	2:N:159:HIS:HD2	1.77	0.49
1:P:51:THR:C	1:P:62:VAL:HG13	2.32	0.49
1:P:278:GLN:HG3	1:P:318:GLY:H	1.75	0.49
1:P:290:GLN:HG2	1:P:331:LEU:CA	2.43	0.49
1:P:715:VAL:HG12	1:P:716:LEU:O	2.12	0.49
1:P:720:PHE:CD2	1:P:744:SER:HB3	2.48	0.49
4:1:198:TYR:CZ	4:1:248:ILE:HG13	2.48	0.49
4:4:124:PHE:CZ	4:4:132:MET:HG3	2.48	0.49
4:4:213:LYS:O	4:4:217:CYS:HB2	2.13	0.49
4:7:124:PHE:CZ	4:7:132:MET:HG3	2.48	0.49
4:9:124:PHE:CZ	4:9:132:MET:HG3	2.48	0.49
4:9:198:TYR:CZ	4:9:248:ILE:HG13	2.48	0.49
4:V:70:PRO:HG3	4:V:81:ASP:HB3	1.94	0.49
4:V:120:THR:HG21	4:V:370:VAL:HG11	1.95	0.49
4:V:124:PHE:CZ	4:V:132:MET:HG3	2.48	0.49
1:A:290:GLN:HG2	1:A:331:LEU:CA	2.43	0.49
1:A:410:ASN:HD22	4:8:336:LYS:HE2	1.78	0.49
1:A:793:ARG:O	1:A:797:PHE:N	2.40	0.49
1:A:801:VAL:HA	3:C:149:VAL:HG21	1.95	0.49
1:A:839:MLY:N	1:A:840:PRO:CD	2.75	0.49
1:D:732:ILE:H	1:D:733:PRO:CD	2.23	0.49
1:G:51:THR:C	1:G:62:VAL:HG13	2.32	0.49
1:G:97:LEU:HD13	1:G:97:LEU:N	2.28	0.49
1:G:173:GLN:OE1	1:G:668:HIS:HB3	2.13	0.49
1:G:410:ASN:HD22	4:V:336:LYS:HE2	1.78	0.49
1:G:595:TRP:N	1:G:595:TRP:CD1	2.80	0.49
1:J:64:THR:CG2	1:J:65:GLU:N	2.75	0.49
1:J:251:ARG:O	1:J:263:ALA:HA	2.12	0.49
1:J:792:ALA:CA	3:L:42:THR:CA	2.91	0.49
2:K:114:LYS:HG3	2:K:137:TRP:CZ2	2.48	0.49
1:M:538:GLU:HA	4:Z:351:THR:H	1.77	0.49
2:N:93:PRO:O	2:N:97:ILE:HG13	2.12	0.49
1:P:310:TYR:CE2	1:P:320:ILE:CD1	2.94	0.49
4:5:213:LYS:O	4:5:217:CYS:HB2	2.13	0.49
4:5:299:MET:HE2	4:5:331:ALA:HB2	1.93	0.49
4:7:198:TYR:CZ	4:7:248:ILE:HG13	2.48	0.49
4:8:124:PHE:CZ	4:8:132:MET:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:8:213:LYS:O	4:8:217:CYS:HB2	2.13	0.49
4:9:213:LYS:O	4:9:217:CYS:HB2	2.13	0.49
1:A:134:VAL:C	1:A:136:ASN:H	2.16	0.48
1:A:354:LEU:HD12	1:A:354:LEU:HA	1.56	0.48
1:D:312:TYR:N	1:D:312:TYR:CD1	2.80	0.48
1:D:819:ASN:N	2:E:90:GLY:C	2.66	0.48
1:D:831:TRP:CE2	2:E:47:LEU:CD2	2.77	0.48
1:G:829:TRP:HZ3	2:H:84:PHE:CD1	2.29	0.48
1:J:314:TYR:CZ	1:J:362:GLY:HA2	2.48	0.48
1:J:595:TRP:N	1:J:595:TRP:CD1	2.80	0.48
1:J:817:GLN:OE1	2:K:127:ARG:CD	2.54	0.48
1:M:64:THR:CG2	1:M:65:GLU:N	2.75	0.48
1:M:84:MLY:HH11	1:M:776:GLU:OE2	2.12	0.48
1:M:720:PHE:CD2	1:M:744:SER:HB3	2.48	0.48
1:M:723:ARG:HH11	1:M:723:ARG:HG3	1.78	0.48
2:N:128:PHE:O	2:N:133:ILE:HD11	2.13	0.48
1:P:97:LEU:HD13	1:P:97:LEU:N	2.28	0.48
1:P:312:TYR:N	1:P:312:TYR:CD1	2.81	0.48
1:P:601:ASP:N	1:P:602:PRO:CD	2.75	0.48
1:P:642:LYS:HG3	4:1:23:GLY:CA	2.32	0.48
1:P:786:ILE:O	1:P:787:ILE:N	2.34	0.48
4:7:213:LYS:O	4:7:217:CYS:HB2	2.13	0.48
4:W:198:TYR:CZ	4:W:248:ILE:HG13	2.48	0.48
1:A:173:GLN:OE1	1:A:668:HIS:HB3	2.13	0.48
1:A:217:THR:C	1:A:221:GLN:NE2	2.62	0.48
1:A:502:GLU:HA	1:A:761:GLY:C	2.32	0.48
1:A:629:GLU:CB	1:A:645:SER:N	2.74	0.48
1:A:675:ILE:CG2	1:A:676:ILE:N	2.74	0.48
1:A:756:THR:O	1:A:758:TYR:N	2.45	0.48
1:D:251:ARG:HB2	1:D:264:ASP:HB3	1.95	0.48
1:D:310:TYR:CE2	1:D:320:ILE:CD1	2.94	0.48
1:D:595:TRP:N	1:D:595:TRP:CD1	2.80	0.48
1:D:831:TRP:NE1	2:E:47:LEU:HD22	2.27	0.48
1:G:20:SER:HB3	1:G:23:GLU:OE1	2.12	0.48
1:G:64:THR:CG2	1:G:65:GLU:N	2.75	0.48
1:G:720:PHE:CD2	1:G:744:SER:HB3	2.48	0.48
2:H:121:LEU:HA	2:H:128:PHE:CD2	2.46	0.48
1:J:629:GLU:CA	1:J:643:GLY:C	2.73	0.48
1:J:739:ASP:CB	1:J:742:LYS:CB	2.81	0.48
2:K:117:LEU:CG	2:K:147:ASN:OD1	2.52	0.48
1:M:215:GLN:H	1:M:340:ILE:CD1	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:173:GLN:OE1	1:P:668:HIS:HB3	2.13	0.48
1:P:798:LEU:HD12	3:R:126:LEU:HD21	1.95	0.48
2:Q:121:LEU:O	2:Q:128:PHE:CG	2.61	0.48
4:2:64:ILE:HG21	4:Z:166:TYR:CE1	2.31	0.48
4:3:322:PRO:C	4:5:244:ASP:HB2	2.33	0.48
4:4:287:ILE:HG21	4:6:204:ALA:N	2.28	0.48
4:5:124:PHE:CZ	4:5:132:MET:HG3	2.48	0.48
4:6:198:TYR:CZ	4:6:248:ILE:HG13	2.48	0.48
4:X:120:THR:HG21	4:X:370:VAL:HG11	1.95	0.48
4:Y:124:PHE:CZ	4:Y:132:MET:HG3	2.48	0.48
1:A:192:VAL:O	1:A:195:TYR:HB3	2.13	0.48
1:A:799:MET:SD	3:C:32:ASP:CG	2.87	0.48
1:D:51:THR:C	1:D:62:VAL:HG13	2.32	0.48
1:D:215:GLN:H	1:D:340:ILE:CD1	2.21	0.48
1:D:314:TYR:CZ	1:D:362:GLY:HA2	2.48	0.48
1:D:543:PRO:CD	4:9:146:GLY:O	2.61	0.48
1:D:795:ARG:CZ	3:F:116:GLU:OE1	2.58	0.48
1:G:617:MLY:O	1:G:620:ALA:HB3	2.14	0.48
1:G:791:GLN:NE2	3:I:115:GLY:C	2.63	0.48
2:H:130:PRO:O	2:H:131:GLU:C	2.52	0.48
1:J:51:THR:C	1:J:62:VAL:HG13	2.32	0.48
1:J:715:VAL:O	1:J:764:MLY:HB3	2.12	0.48
1:J:715:VAL:HG12	1:J:716:LEU:O	2.12	0.48
1:J:798:LEU:HA	1:J:798:LEU:HD12	1.36	0.48
1:J:798:LEU:HD12	3:L:126:LEU:HD11	1.80	0.48
1:J:830:PRO:CB	2:K:67:MET:CE	2.91	0.48
2:K:130:PRO:O	2:K:131:GLU:C	2.52	0.48
2:K:140:PHE:HB3	2:K:144:VAL:HG12	1.94	0.48
1:M:547:ASP:O	1:M:550:PHE:HB3	2.12	0.48
1:P:103:LEU:C	1:P:103:LEU:HD12	2.33	0.48
1:P:251:ARG:O	1:P:263:ALA:HA	2.12	0.48
1:P:314:TYR:CZ	1:P:362:GLY:HA2	2.48	0.48
4:3:124:PHE:CZ	4:3:132:MET:HG3	2.48	0.48
4:6:213:LYS:O	4:6:217:CYS:HB2	2.13	0.48
4:7:120:THR:HG21	4:7:370:VAL:HG11	1.95	0.48
4:8:198:TYR:CZ	4:8:248:ILE:HG13	2.48	0.48
4:V:198:TYR:CZ	4:V:248:ILE:HG13	2.48	0.48
4:X:124:PHE:CZ	4:X:132:MET:HG3	2.48	0.48
4:X:291:LYS:CD	4:Z:246:GLN:N	2.75	0.48
1:A:649:VAL:HA	1:A:649:VAL:HG23	1.82	0.48
1:A:768:MLY:HB3	1:A:771:LEU:CD1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:114:LYS:HG3	2:B:137:TRP:CZ2	2.48	0.48
1:D:409:GLY:N	1:D:636:LYS:CD	2.71	0.48
1:D:410:ASN:HD22	4:9:336:LYS:HE2	1.78	0.48
1:D:732:ILE:H	1:D:733:PRO:HD2	1.74	0.48
1:D:838:ILE:HD13	2:E:54:MET:HE3	1.90	0.48
1:D:839:MLY:N	1:D:840:PRO:CD	2.75	0.48
1:G:642:LYS:HA	4:V:22:ALA:C	2.33	0.48
1:G:756:THR:O	1:G:758:TYR:N	2.45	0.48
1:G:798:LEU:CD2	3:I:118:MET:CG	2.85	0.48
1:G:839:MLY:N	1:G:840:PRO:CD	2.75	0.48
1:J:248:MLY:HE2	1:J:250:ILE:HD11	1.95	0.48
1:J:251:ARG:HB2	1:J:264:ASP:HB3	1.94	0.48
1:J:499:GLU:OE1	1:J:499:GLU:HA	2.13	0.48
1:J:547:ASP:O	1:J:550:PHE:HB3	2.12	0.48
1:J:720:PHE:CD2	1:J:744:SER:HB3	2.48	0.48
1:J:799:MET:SD	3:L:32:ASP:HA	2.52	0.48
1:M:410:ASN:HD22	4:Z:336:LYS:HE2	1.78	0.48
1:M:786:ILE:O	1:M:787:ILE:C	2.48	0.48
1:P:64:THR:CG2	1:P:65:GLU:N	2.75	0.48
1:P:237:THR:HG22	1:P:238:VAL:N	2.28	0.48
1:P:646:PHE:HE2	1:P:652:LEU:CG	2.24	0.48
4:1:213:LYS:O	4:1:217:CYS:HB2	2.13	0.48
4:3:120:THR:HG21	4:3:370:VAL:HG11	1.95	0.48
4:6:120:THR:HG21	4:6:370:VAL:HG11	1.95	0.48
4:8:253:GLU:HA	4:8:256:ARG:CG	2.42	0.48
4:9:120:THR:HG21	4:9:370:VAL:HG11	1.95	0.48
4:9:287:ILE:HA	4:W:202:THR:HG21	1.59	0.48
4:Y:198:TYR:CZ	4:Y:248:ILE:HG13	2.48	0.48
4:Z:70:PRO:HG3	4:Z:81:ASP:HB3	1.94	0.48
1:A:251:ARG:HB2	1:A:264:ASP:HB3	1.95	0.48
1:A:312:TYR:N	1:A:312:TYR:CD1	2.80	0.48
1:A:505:MLY:N	1:A:762:HIS:NE2	2.61	0.48
1:A:550:PHE:CE2	1:A:592:ILE:CG2	2.97	0.48
1:A:725:ARG:NE	1:A:733:PRO:CB	1.95	0.48
1:A:752:ASP:OD2	1:A:782:MLY:CG	2.62	0.48
3:C:50:LEU:O	3:C:55:LYS:HB2	2.13	0.48
1:D:64:THR:CG2	1:D:65:GLU:N	2.75	0.48
1:D:617:MLY:O	1:D:620:ALA:HB3	2.14	0.48
1:D:689:GLU:O	1:D:689:GLU:HG2	2.14	0.48
1:D:839:MLY:HB2	1:D:840:PRO:HD3	1.94	0.48
1:G:530:MET:HE3	4:V:355:MET:SD	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:643:GLY:N	4:V:23:GLY:C	2.55	0.48
1:G:689:GLU:O	1:G:689:GLU:HG2	2.14	0.48
1:G:732:ILE:H	1:G:733:PRO:HD2	1.74	0.48
1:J:20:SER:HB3	1:J:23:GLU:OE1	2.13	0.48
1:J:278:GLN:HG3	1:J:318:GLY:H	1.76	0.48
1:J:312:TYR:N	1:J:312:TYR:CD1	2.81	0.48
1:J:404:PRO:HD2	1:J:415:MLY:O	2.13	0.48
1:J:817:GLN:CD	2:K:127:ARG:CG	2.82	0.48
2:K:112:ILE:CG2	2:K:147:ASN:O	2.62	0.48
3:L:50:LEU:O	3:L:55:LYS:HB2	2.13	0.48
1:M:168:THR:HG22	1:M:169:ASP:OD1	2.12	0.48
1:M:550:PHE:CE2	1:M:592:ILE:CG2	2.97	0.48
1:M:617:MLY:O	1:M:620:ALA:HB3	2.14	0.48
1:M:709:LYS:O	1:M:768:MLY:HH11	2.12	0.48
1:M:821:ARG:HH12	2:N:127:ARG:CZ	2.26	0.48
1:P:538:GLU:HA	4:1:351:THR:H	1.77	0.48
4:2:148:THR:OG1	4:4:45:VAL:CG2	2.61	0.48
4:3:213:LYS:O	4:3:217:CYS:HB2	2.13	0.48
4:4:198:TYR:CZ	4:4:248:ILE:HG13	2.48	0.48
4:5:250:ILE:HG23	4:5:253:GLU:HG2	1.96	0.48
4:5:253:GLU:HA	4:5:256:ARG:CG	2.42	0.48
4:6:250:ILE:HG23	4:6:253:GLU:HG2	1.96	0.48
1:A:103:LEU:C	1:A:103:LEU:HD12	2.33	0.48
1:A:707:CYS:HA	1:A:714:ARG:HH12	1.75	0.48
1:A:799:MET:SD	3:C:32:ASP:O	2.71	0.48
1:D:103:LEU:C	1:D:103:LEU:HD12	2.33	0.48
1:D:218:LEU:HA	1:D:221:GLN:H	1.79	0.48
1:D:290:GLN:HG2	1:D:331:LEU:CA	2.43	0.48
1:D:637:LYS:HD2	4:9:144:ALA:HB3	1.20	0.48
1:D:795:ARG:NH2	3:F:116:GLU:HB3	2.29	0.48
2:E:93:PRO:O	2:E:97:ILE:HG13	2.13	0.48
1:G:546:THR:CG2	1:G:547:ASP:N	2.77	0.48
1:G:550:PHE:CE2	1:G:592:ILE:CG2	2.97	0.48
1:G:632:GLY:HA3	1:G:643:GLY:N	2.17	0.48
1:J:10:PHE:CD2	1:J:17:LEU:HD23	2.49	0.48
1:J:797:PHE:CG	3:L:146:ILE:HG23	2.25	0.48
1:M:136:ASN:O	1:M:139:VAL:N	2.47	0.48
1:M:314:TYR:CZ	1:M:362:GLY:HA2	2.48	0.48
1:M:404:PRO:HD2	1:M:415:MLY:O	2.13	0.48
1:P:404:PRO:HD2	1:P:415:MLY:O	2.13	0.48
1:P:406:VAL:CG1	1:P:407:GLY:N	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:617:MLY:O	1:P:620:ALA:HB3	2.14	0.48
1:P:767:PHE:HB2	1:P:772:LEU:HD22	1.25	0.48
4:2:198:TYR:CZ	4:2:248:ILE:HG13	2.48	0.48
4:3:198:TYR:CZ	4:3:248:ILE:HG13	2.48	0.48
4:X:250:ILE:HG23	4:X:253:GLU:HG2	1.96	0.48
4:X:253:GLU:HA	4:X:256:ARG:CG	2.42	0.48
4:Y:213:LYS:O	4:Y:217:CYS:HB2	2.13	0.48
4:Z:250:ILE:HG23	4:Z:253:GLU:HG2	1.96	0.48
1:A:28:GLN:NE2	1:A:723:ARG:NH2	2.52	0.48
1:A:136:ASN:O	1:A:139:VAL:N	2.47	0.48
1:D:10:PHE:CD2	1:D:17:LEU:HD23	2.49	0.48
1:D:538:GLU:HA	4:9:351:THR:H	1.77	0.48
1:D:602:PRO:O	1:D:603:LEU:HD12	2.14	0.48
1:D:720:PHE:CD2	1:D:744:SER:HB3	2.48	0.48
1:D:733:PRO:O	1:D:737:PHE:CE1	2.53	0.48
2:E:112:ILE:CG2	2:E:147:ASN:O	2.62	0.48
1:G:106:LEU:HD12	1:G:117:THR:HG21	1.96	0.48
1:G:506:GLU:CG	1:G:760:PHE:H	2.27	0.48
1:G:765:VAL:CG1	1:G:766:PHE:N	2.77	0.48
1:G:831:TRP:CZ3	2:H:34:ILE:HD13	2.49	0.48
1:J:310:TYR:CE2	1:J:320:ILE:CD1	2.94	0.48
1:J:406:VAL:CG1	1:J:407:GLY:N	2.77	0.48
1:J:757:GLN:CA	1:J:776:GLU:HG3	2.35	0.48
1:M:10:PHE:CD2	1:M:17:LEU:HD23	2.49	0.48
1:P:595:TRP:CD1	1:P:595:TRP:N	2.80	0.48
1:P:689:GLU:O	1:P:689:GLU:HG2	2.14	0.48
1:P:732:ILE:HG23	1:P:747:LEU:HD12	0.95	0.48
1:P:796:GLY:HA2	3:R:35:ARG:CD	2.43	0.48
1:P:839:MLY:HB2	1:P:840:PRO:HD3	1.94	0.48
4:2:250:ILE:HG23	4:2:253:GLU:HG2	1.96	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
4:8:250:ILE:HG23	4:8:253:GLU:HG2	1.96	0.48
4:V:285:CYS:O	4:X:202:THR:HG22	2.13	0.48
4:W:213:LYS:O	4:W:217:CYS:HB2	2.13	0.48
4:X:213:LYS:O	4:X:217:CYS:HB2	2.13	0.48
1:A:689:GLU:HG2	1:A:689:GLU:O	2.14	0.48
1:A:838:ILE:C	1:A:840:PRO:HD2	2.34	0.48
2:B:117:LEU:HG	2:B:147:ASN:HB3	1.93	0.48
1:D:538:GLU:OE1	4:9:355:MET:HE3	2.14	0.48
1:D:546:THR:CG2	1:D:547:ASP:N	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:727:LEU:HD13	1:D:782:MLY:CH1	2.42	0.48
1:D:831:TRP:CD2	2:E:51:PHE:CZ	3.02	0.48
1:G:791:GLN:CD	3:I:116:GLU:HG3	2.34	0.48
1:J:617:MLY:O	1:J:620:ALA:HB3	2.14	0.48
1:J:640:LYS:HB3	1:J:645:SER:CB	2.41	0.48
1:M:218:LEU:CD2	1:M:222:ILE:CG1	2.85	0.48
2:N:130:PRO:O	2:N:131:GLU:C	2.52	0.48
1:P:206:LYS:HD2	1:P:217:THR:CG2	2.17	0.48
1:P:248:MLY:HE2	1:P:250:ILE:HD11	1.95	0.48
1:P:723:ARG:HD2	1:P:779:ARG:CB	2.36	0.48
1:P:800:ARG:NH2	3:R:40:ASN:CG	2.58	0.48
2:Q:130:PRO:O	2:Q:131:GLU:C	2.52	0.48
4:V:213:LYS:O	4:V:217:CYS:HB2	2.13	0.48
1:A:404:PRO:HD2	1:A:415:MLY:O	2.13	0.48
1:A:813:ILE:CG2	2:B:127:ARG:CD	2.67	0.48
1:D:214:MET:C	1:D:340:ILE:CD1	2.82	0.48
1:D:499:GLU:OE1	1:D:499:GLU:HA	2.13	0.48
1:D:556:ASP:CA	4:W:49:GLN:O	2.52	0.48
1:D:632:GLY:HA3	1:D:643:GLY:N	2.17	0.48
1:D:642:LYS:HA	4:9:22:ALA:C	2.33	0.48
1:D:712:PRO:HB2	1:D:771:LEU:CD2	2.44	0.48
2:E:128:PHE:O	2:E:133:ILE:HD11	2.13	0.48
2:E:130:PRO:O	2:E:131:GLU:C	2.52	0.48
1:G:251:ARG:HB2	1:G:264:ASP:HB3	1.95	0.48
1:G:312:TYR:N	1:G:312:TYR:CD1	2.80	0.48
1:G:406:VAL:CG1	1:G:407:GLY:N	2.77	0.48
1:G:499:GLU:OE1	1:G:499:GLU:HA	2.13	0.48
1:G:723:ARG:HH11	1:G:723:ARG:HG3	1.78	0.48
1:G:839:MLY:HB2	1:G:840:PRO:HD3	1.94	0.48
2:H:121:LEU:O	2:H:128:PHE:CG	2.61	0.48
2:H:140:PHE:HB3	2:H:144:VAL:HG12	1.94	0.48
1:J:237:THR:HG22	1:J:238:VAL:N	2.28	0.48
1:J:576:GLU:CG	1:J:577:ALA:N	2.44	0.48
1:J:602:PRO:O	1:J:603:LEU:HD12	2.14	0.48
1:J:836:PHE:CE1	2:K:160:GLY:N	2.75	0.48
2:K:128:PHE:O	2:K:133:ILE:HD11	2.13	0.48
1:M:103:LEU:HD12	1:M:103:LEU:C	2.33	0.48
1:M:546:THR:CG2	1:M:547:ASP:N	2.77	0.48
1:M:821:ARG:NH1	2:N:127:ARG:NE	2.62	0.48
1:M:836:PHE:CD2	2:N:160:GLY:N	2.80	0.48
1:P:251:ARG:HB2	1:P:264:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:767:PHE:HB3	1:P:772:LEU:CG	2.41	0.48
1:P:789:ALA:CA	3:R:81:GLN:CD	2.80	0.48
1:P:838:ILE:C	1:P:840:PRO:HD2	2.35	0.48
2:Q:139:ALA:C	2:Q:141:PRO:HD3	2.33	0.48
4:3:250:ILE:HG23	4:3:253:GLU:HG2	1.96	0.48
4:4:120:THR:HG21	4:4:370:VAL:HG11	1.95	0.48
4:V:250:ILE:HG23	4:V:253:GLU:HG2	1.96	0.48
4:V:285:CYS:O	4:X:202:THR:CG2	2.62	0.48
4:W:299:MET:HE2	4:W:331:ALA:HB2	1.95	0.48
4:Z:198:TYR:CZ	4:Z:248:ILE:HG13	2.48	0.48
4:Z:213:LYS:O	4:Z:217:CYS:HB2	2.13	0.48
1:A:154:HIS:CE1	1:A:156:PHE:CE2	3.02	0.48
1:A:499:GLU:OE1	1:A:499:GLU:HA	2.13	0.48
1:A:501:GLU:O	1:A:762:HIS:CD2	2.67	0.48
1:A:578:HIS:HB3	1:A:592:ILE:CD1	2.38	0.48
1:A:839:MLY:HB2	1:A:840:PRO:HD3	1.94	0.48
1:D:41:VAL:CG1	1:D:42:HIS:N	2.75	0.48
1:D:404:PRO:HD2	1:D:415:MLY:O	2.13	0.48
1:D:767:PHE:O	1:D:771:LEU:CG	2.61	0.48
1:G:103:LEU:C	1:G:103:LEU:HD12	2.33	0.48
1:G:218:LEU:HD22	1:G:222:ILE:HG13	1.95	0.48
1:G:292:MET:HE1	1:G:309:PRO:HD3	1.96	0.48
1:G:602:PRO:O	1:G:603:LEU:HD12	2.14	0.48
1:G:759:ALA:O	1:G:766:PHE:N	2.32	0.48
1:G:835:PHE:CD1	2:H:30:ALA:HB2	2.49	0.48
1:J:28:GLN:HG2	1:J:723:ARG:HH22	1.78	0.48
1:J:640:LYS:HD2	1:J:646:PHE:O	2.14	0.48
1:M:41:VAL:CG1	1:M:42:HIS:N	2.75	0.48
1:M:542:PHE:CD2	4:Z:143:TYR:CD1	3.02	0.48
1:M:762:HIS:CD2	1:M:762:HIS:N	2.78	0.48
1:P:410:ASN:HD22	4:1:336:LYS:HE2	1.78	0.48
1:P:723:ARG:NH2	1:P:782:MLY:CB	2.63	0.48
1:P:723:ARG:HH11	1:P:723:ARG:HG3	1.78	0.48
1:P:765:VAL:CG1	1:P:766:PHE:N	2.77	0.48
1:P:805:ALA:O	1:P:808:GLU:HB2	2.13	0.48
4:1:244:ASP:CB	4:Y:292:ASP:N	2.76	0.48
4:5:120:THR:HG21	4:5:370:VAL:HG11	1.95	0.48
4:9:250:ILE:HG23	4:9:253:GLU:HG2	1.96	0.48
4:W:120:THR:HG21	4:W:370:VAL:HG11	1.95	0.48
1:A:218:LEU:HA	1:A:221:GLN:H	1.79	0.47
1:A:248:MLY:HE2	1:A:250:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:TYR:CZ	1:A:362:GLY:HA2	2.48	0.47
1:A:642:LYS:HA	4:8:22:ALA:C	2.34	0.47
1:D:220:ASP:O	1:D:224:SER:N	2.27	0.47
1:G:136:ASN:O	1:G:139:VAL:N	2.47	0.47
1:G:154:HIS:CE1	1:G:156:PHE:CE2	3.02	0.47
1:G:218:LEU:HA	1:G:221:GLN:H	1.79	0.47
1:G:314:TYR:CZ	1:G:362:GLY:HA2	2.48	0.47
1:G:404:PRO:HD2	1:G:415:MLY:O	2.13	0.47
1:G:640:LYS:HD2	1:G:646:PHE:O	2.14	0.47
1:G:796:GLY:N	3:I:35:ARG:NH1	2.62	0.47
1:G:798:LEU:HA	1:G:798:LEU:HD12	1.36	0.47
2:H:93:PRO:O	2:H:97:ILE:HG13	2.12	0.47
1:J:546:THR:CG2	1:J:547:ASP:N	2.77	0.47
1:M:218:LEU:HA	1:M:221:GLN:HG3	1.71	0.47
1:M:554:LEU:HD12	1:M:554:LEU:HA	1.76	0.47
1:M:564:ASN:HD22	1:M:582:VAL:HB	1.79	0.47
2:N:112:ILE:CG2	2:N:147:ASN:O	2.62	0.47
2:N:140:PHE:HB3	2:N:144:VAL:HG12	1.94	0.47
1:P:405:ARG:HB2	1:P:414:THR:OG1	2.13	0.47
4:1:250:ILE:HG23	4:1:253:GLU:HG2	1.96	0.47
4:9:290:ARG:HH22	4:W:202:THR:CG2	2.17	0.47
4:9:299:MET:HE2	4:9:331:ALA:HB2	1.95	0.47
4:Y:250:ILE:HG23	4:Y:253:GLU:HG2	1.96	0.47
1:A:218:LEU:CD2	1:A:222:ILE:CG1	2.85	0.47
1:A:524:GLU:HB3	1:A:528:MLY:HG2	1.96	0.47
1:A:568:PRO:HD3	1:A:579:PHE:HA	1.96	0.47
1:A:783:LEU:HA	1:A:786:ILE:HB	1.96	0.47
3:C:53:PRO:O	3:C:55:LYS:HG3	2.14	0.47
1:D:406:VAL:CG1	1:D:407:GLY:N	2.77	0.47
1:D:542:PHE:CD2	4:9:143:TYR:CD1	3.02	0.47
1:D:640:LYS:HB3	1:D:645:SER:CB	2.42	0.47
1:D:795:ARG:HD2	3:F:35:ARG:NH1	2.27	0.47
1:D:823:PHE:HE1	2:E:160:GLY:C	2.06	0.47
1:G:410:ASN:HA	4:V:334:GLU:HB3	1.28	0.47
1:G:791:GLN:NE2	3:I:116:GLU:N	2.62	0.47
1:G:796:GLY:HA2	3:I:35:ARG:NH2	2.28	0.47
2:H:112:ILE:CG2	2:H:147:ASN:O	2.62	0.47
2:H:128:PHE:O	2:H:133:ILE:HD11	2.13	0.47
2:H:139:ALA:C	2:H:141:PRO:HD3	2.33	0.47
1:J:97:LEU:HD13	1:J:97:LEU:N	2.28	0.47
1:J:405:ARG:HB2	1:J:414:THR:OG1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:436:MLY:HE3	1:J:626:TYR:HE1	1.77	0.47
1:J:765:VAL:CG1	1:J:766:PHE:N	2.77	0.47
1:J:793:ARG:O	1:J:797:PHE:N	2.39	0.47
2:K:144:VAL:HG12	2:K:153:ILE:HD11	1.75	0.47
3:L:53:PRO:O	3:L:55:LYS:HG3	2.15	0.47
1:M:795:ARG:NH2	3:O:116:GLU:HG2	2.20	0.47
1:P:97:LEU:HD12	1:P:97:LEU:HA	1.67	0.47
1:P:292:MET:CE	1:P:309:PRO:HA	2.39	0.47
1:P:538:GLU:OE1	4:1:355:MET:HE3	2.15	0.47
1:P:542:PHE:CD2	4:1:143:TYR:CD1	3.02	0.47
4:1:120:THR:HG21	4:1:370:VAL:HG11	1.95	0.47
4:1:253:GLU:HA	4:1:256:ARG:CG	2.42	0.47
1:A:214:MET:C	1:A:340:ILE:CD1	2.82	0.47
1:A:542:PHE:CD2	4:8:143:TYR:CD1	3.02	0.47
1:A:617:MLY:O	1:A:620:ALA:HB3	2.14	0.47
1:A:759:ALA:O	1:A:766:PHE:N	2.32	0.47
1:D:783:LEU:HA	1:D:786:ILE:HB	1.96	0.47
1:G:122:PHE:CE2	1:G:700:VAL:HA	2.49	0.47
1:G:436:MLY:HE3	1:G:626:TYR:HE1	1.77	0.47
1:G:578:HIS:HB3	1:G:592:ILE:CD1	2.38	0.47
1:G:754:ASP:OD2	1:G:776:GLU:CA	2.62	0.47
1:J:136:ASN:O	1:J:139:VAL:N	2.46	0.47
1:J:214:MET:C	1:J:340:ILE:CD1	2.82	0.47
1:J:636:LYS:O	4:W:144:ALA:HB1	2.14	0.47
1:M:206:LYS:HD2	1:M:217:THR:CG2	2.17	0.47
1:M:289:TYR:OH	1:M:315:VAL:O	2.27	0.47
1:M:636:LYS:O	4:Z:144:ALA:HB1	2.14	0.47
1:M:732:ILE:HG21	1:M:747:LEU:CD1	0.63	0.47
1:M:737:PHE:CE1	3:O:85:GLU:CD	2.80	0.47
1:M:765:VAL:CG1	1:M:766:PHE:N	2.77	0.47
1:P:564:ASN:HD22	1:P:582:VAL:HB	1.79	0.47
1:P:636:LYS:O	4:1:144:ALA:HB1	2.14	0.47
1:P:640:LYS:HD2	1:P:646:PHE:O	2.14	0.47
1:P:726:VAL:HG21	3:R:80:ASP:HB3	1.96	0.47
4:4:253:GLU:HA	4:4:256:ARG:CG	2.42	0.47
4:V:162:ASN:OD1	4:V:277:THR:HG22	2.15	0.47
4:W:325:MET:SD	4:Y:244:ASP:OD2	2.73	0.47
4:Z:120:THR:HG21	4:Z:370:VAL:HG11	1.95	0.47
1:A:136:ASN:HA	1:A:137:PRO:HD3	1.50	0.47
1:A:640:LYS:HD2	1:A:646:PHE:O	2.14	0.47
1:A:819:ASN:CA	2:B:90:GLY:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:130:PRO:O	2:B:131:GLU:C	2.52	0.47
1:D:122:PHE:CE2	1:D:700:VAL:HA	2.50	0.47
1:G:41:VAL:CG1	1:G:42:HIS:N	2.75	0.47
1:G:564:ASN:HD22	1:G:582:VAL:HB	1.79	0.47
1:G:708:ARG:HA	1:G:712:PRO:CB	2.42	0.47
1:G:817:GLN:NE2	2:H:128:PHE:CD1	2.81	0.47
1:G:823:PHE:HE1	2:H:160:GLY:CA	2.26	0.47
1:J:122:PHE:CE2	1:J:700:VAL:HA	2.50	0.47
1:J:410:ASN:HD22	4:W:336:LYS:HE2	1.78	0.47
1:J:838:ILE:C	1:J:840:PRO:HD2	2.34	0.47
1:M:134:VAL:C	1:M:136:ASN:H	2.16	0.47
1:M:406:VAL:CG1	1:M:407:GLY:N	2.77	0.47
1:M:418:THR:CB	1:M:421:GLU:HG3	2.37	0.47
1:M:499:GLU:HA	1:M:499:GLU:OE1	2.13	0.47
1:M:733:PRO:O	1:M:737:PHE:CE1	2.53	0.47
2:N:121:LEU:HA	2:N:128:PHE:CD2	2.46	0.47
1:P:546:THR:CG2	1:P:547:ASP:N	2.77	0.47
1:P:722:GLN:NE2	3:R:86:ASP:OD2	2.47	0.47
1:P:762:HIS:CD2	1:P:762:HIS:N	2.78	0.47
1:P:821:ARG:HH22	2:Q:127:ARG:HE	1.61	0.47
2:Q:112:ILE:CG2	2:Q:147:ASN:O	2.62	0.47
4:2:120:THR:HG21	4:2:370:VAL:HG11	1.95	0.47
4:2:162:ASN:OD1	4:2:277:THR:HG22	2.15	0.47
4:3:290:ARG:NH1	4:5:202:THR:CG2	2.75	0.47
4:W:250:ILE:HG23	4:W:253:GLU:HG2	1.96	0.47
4:Z:162:ASN:OD1	4:Z:277:THR:HG22	2.15	0.47
1:A:188:ASN:ND2	1:A:674:CYS:SG	2.88	0.47
1:A:406:VAL:CG1	1:A:407:GLY:N	2.77	0.47
1:A:546:THR:CG2	1:A:547:ASP:N	2.77	0.47
1:A:642:LYS:CB	4:8:24:ASP:O	2.59	0.47
1:A:715:VAL:HG11	1:A:720:PHE:CD1	2.50	0.47
1:D:405:ARG:HB2	1:D:414:THR:OG1	2.13	0.47
2:E:160:GLY:O	2:E:161:GLU:HG2	2.14	0.47
1:G:552:ASN:C	4:X:47:MET:HE1	2.35	0.47
1:G:636:LYS:O	4:V:144:ALA:HB1	2.14	0.47
1:G:838:ILE:C	1:G:840:PRO:HD2	2.34	0.47
1:J:542:PHE:CD2	4:W:143:TYR:CD1	3.02	0.47
1:J:689:GLU:O	1:J:689:GLU:HG2	2.14	0.47
1:J:792:ALA:HB1	3:L:42:THR:N	2.30	0.47
1:M:154:HIS:CE1	1:M:156:PHE:CE2	3.02	0.47
1:M:188:ASN:ND2	1:M:674:CYS:SG	2.88	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:214:MET:C	1:M:340:ILE:CD1	2.82	0.47
1:M:436:MLY:HE3	1:M:626:TYR:HE1	1.77	0.47
1:M:724:TYR:HD1	1:M:727:LEU:CD1	2.27	0.47
1:M:838:ILE:C	1:M:840:PRO:HD2	2.35	0.47
1:P:218:LEU:HD22	1:P:222:ILE:HG13	1.95	0.47
1:P:568:PRO:HD3	1:P:579:PHE:HA	1.96	0.47
1:P:790:THR:HA	3:R:87:PHE:HE2	1.79	0.47
1:P:834:LEU:HD12	2:Q:51:PHE:CE1	2.40	0.47
4:1:166:TYR:CE1	4:3:64:ILE:CG2	2.96	0.47
4:2:213:LYS:O	4:2:217:CYS:HB2	2.13	0.47
4:Y:162:ASN:OD1	4:Y:277:THR:HG22	2.15	0.47
1:A:10:PHE:CD2	1:A:17:LEU:HD23	2.49	0.47
1:A:400:ALA:HB1	1:A:606:THR:CG2	2.45	0.47
1:A:636:LYS:O	4:8:144:ALA:HB1	2.15	0.47
1:A:795:ARG:NH2	3:C:116:GLU:HG2	2.22	0.47
1:D:838:ILE:C	1:D:840:PRO:HD2	2.34	0.47
1:G:248:MLY:HE2	1:G:250:ILE:HD11	1.95	0.47
1:G:400:ALA:HB1	1:G:606:THR:CG2	2.45	0.47
1:G:629:GLU:CA	1:G:643:GLY:C	2.73	0.47
1:G:769:ALA:O	1:G:773:GLY:N	2.47	0.47
1:J:839:MLY:HH21	2:K:158:THR:CG2	2.44	0.47
1:M:530:MET:HE3	4:Z:354:GLN:CB	2.44	0.47
1:M:568:PRO:HD3	1:M:579:PHE:HA	1.96	0.47
1:M:602:PRO:O	1:M:603:LEU:HD12	2.14	0.47
1:M:725:ARG:NE	1:M:733:PRO:CB	1.95	0.47
3:O:52:ASN:CB	3:O:53:PRO:HD3	2.28	0.47
1:P:640:LYS:HB3	1:P:645:SER:CB	2.42	0.47
1:P:646:PHE:CE2	1:P:652:LEU:CD2	2.87	0.47
1:P:736:GLN:HA	1:P:743:ALA:HB1	1.26	0.47
2:Q:160:GLY:O	2:Q:161:GLU:HG2	2.14	0.47
4:3:162:ASN:OD1	4:3:277:THR:HG22	2.15	0.47
4:8:162:ASN:OD1	4:8:277:THR:HG22	2.15	0.47
4:9:162:ASN:OD1	4:9:277:THR:HG22	2.15	0.47
4:Y:120:THR:HG21	4:Y:370:VAL:HG11	1.95	0.47
1:A:122:PHE:CE2	1:A:700:VAL:HA	2.49	0.47
1:A:346:ASP:O	1:A:350:ALA:N	2.46	0.47
1:A:406:VAL:CG1	1:A:407:GLY:H	2.28	0.47
1:A:602:PRO:O	1:A:603:LEU:HD12	2.14	0.47
1:A:723:ARG:HH11	1:A:723:ARG:HG3	1.78	0.47
1:A:765:VAL:CG1	1:A:766:PHE:N	2.77	0.47
1:A:809:ARG:NH1	2:B:124:GLY:HA2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:137:TRP:CZ3	2:B:145:ALA:N	2.81	0.47
1:D:154:HIS:CE1	1:D:156:PHE:CE2	3.02	0.47
1:D:248:MLY:HE2	1:D:250:ILE:HD11	1.96	0.47
1:D:411:GLU:H	4:9:333:PRO:HB2	1.80	0.47
1:D:550:PHE:CE2	1:D:592:ILE:CG2	2.97	0.47
1:D:640:LYS:C	1:D:645:SER:HG	2.13	0.47
1:D:725:ARG:NE	1:D:733:PRO:CB	1.95	0.47
1:D:765:VAL:CG1	1:D:766:PHE:N	2.77	0.47
1:G:10:PHE:CD2	1:G:17:LEU:HD23	2.49	0.47
1:G:188:ASN:ND2	1:G:674:CYS:SG	2.88	0.47
1:G:214:MET:HA	1:G:340:ILE:CD1	2.41	0.47
1:G:406:VAL:CG1	1:G:407:GLY:H	2.28	0.47
1:G:524:GLU:HB3	1:G:528:MLY:HG2	1.96	0.47
1:G:701:LEU:HD12	1:G:701:LEU:HA	1.55	0.47
1:G:724:TYR:HD1	1:G:727:LEU:CD1	2.27	0.47
1:G:784:ALA:O	1:G:788:THR:CA	2.61	0.47
1:G:819:ASN:CB	2:H:92:ASP:HB2	2.35	0.47
3:I:53:PRO:O	3:I:55:LYS:HG3	2.14	0.47
1:J:41:VAL:CG1	1:J:42:HIS:N	2.75	0.47
1:J:93:MET:HG2	1:J:715:VAL:CA	2.16	0.47
1:J:106:LEU:HD12	1:J:117:THR:HG21	1.96	0.47
1:J:218:LEU:HA	1:J:221:GLN:H	1.80	0.47
1:J:568:PRO:HD3	1:J:579:PHE:HA	1.96	0.47
1:J:695:LEU:HB3	1:J:701:LEU:HD22	1.97	0.47
1:J:830:PRO:CB	2:K:67:MET:HE1	2.45	0.47
2:K:121:LEU:O	2:K:128:PHE:CG	2.61	0.47
1:M:106:LEU:HD12	1:M:117:THR:HG21	1.96	0.47
1:M:400:ALA:HB1	1:M:606:THR:CG2	2.45	0.47
1:M:406:VAL:CG1	1:M:407:GLY:H	2.28	0.47
1:M:408:VAL:HG22	1:M:636:LYS:HG2	1.51	0.47
1:M:524:GLU:HB3	1:M:528:MLY:HG2	1.97	0.47
1:M:549:SER:HA	4:2:49:GLN:HG2	1.97	0.47
1:M:640:LYS:HD2	1:M:646:PHE:O	2.15	0.47
1:M:722:GLN:OE1	3:O:86:ASP:CA	2.45	0.47
1:M:793:ARG:O	1:M:797:PHE:N	2.39	0.47
2:N:137:TRP:CZ3	2:N:145:ALA:N	2.81	0.47
3:O:49:ILE:CA	3:O:52:ASN:ND2	2.53	0.47
3:O:53:PRO:O	3:O:55:LYS:HG3	2.14	0.47
1:P:154:HIS:CE1	1:P:156:PHE:CE2	3.02	0.47
1:P:214:MET:C	1:P:340:ILE:CD1	2.82	0.47
1:P:218:LEU:HA	1:P:221:GLN:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:346:ASP:O	1:P:350:ALA:N	2.45	0.47
1:P:436:MLY:HE3	1:P:626:TYR:HE1	1.77	0.47
1:P:550:PHE:CE2	1:P:592:ILE:CG2	2.97	0.47
1:P:559:LEU:HD23	1:P:560:GLY:N	2.30	0.47
1:P:602:PRO:O	1:P:603:LEU:HD12	2.14	0.47
1:P:709:LYS:H	1:P:710:GLY:N	2.01	0.47
1:P:714:ARG:HD3	1:P:766:PHE:CE2	2.50	0.47
1:P:718:ALA:O	3:R:85:GLU:OE2	2.33	0.47
1:P:821:ARG:NH2	2:Q:127:ARG:NE	2.62	0.47
4:1:205:GLU:CG	4:Y:288:ASP:CG	2.82	0.47
4:8:324:THR:N	4:V:245:GLY:CA	2.69	0.47
4:W:162:ASN:OD1	4:W:277:THR:HG22	2.15	0.47
2:B:112:ILE:CG2	2:B:147:ASN:O	2.62	0.47
3:C:52:ASN:CB	3:C:53:PRO:CD	2.92	0.47
1:D:87:MLY:HH12	1:D:87:MLY:HD3	1.61	0.47
1:D:188:ASN:ND2	1:D:674:CYS:SG	2.88	0.47
1:D:400:ALA:HB1	1:D:606:THR:CG2	2.45	0.47
1:D:410:ASN:HA	4:9:334:GLU:HB3	1.29	0.47
1:D:530:MET:HA	4:9:354:GLN:CD	2.11	0.47
1:D:636:LYS:O	4:9:144:ALA:HB1	2.14	0.47
1:D:640:LYS:HD2	1:D:646:PHE:O	2.14	0.47
1:D:649:VAL:HA	1:D:649:VAL:HG23	1.82	0.47
3:F:53:PRO:O	3:F:55:LYS:HG3	2.15	0.47
1:G:42:HIS:O	1:G:45:GLN:O	2.33	0.47
2:H:160:GLY:O	2:H:161:GLU:HG2	2.14	0.47
1:J:278:GLN:HE21	1:J:278:GLN:HB3	1.42	0.47
1:J:292:MET:HE1	1:J:309:PRO:HD3	1.97	0.47
1:J:332:MET:O	1:J:336:SER:OG	2.27	0.47
1:J:732:ILE:H	1:J:733:PRO:HD2	1.74	0.47
1:M:530:MET:HE3	4:Z:354:GLN:CG	2.32	0.47
1:M:578:HIS:HB3	1:M:592:ILE:CD1	2.38	0.47
1:M:689:GLU:O	1:M:689:GLU:HG2	2.14	0.47
1:M:715:VAL:CG1	1:M:720:PHE:HB2	2.45	0.47
1:M:737:PHE:CZ	3:O:84:PHE:CD1	2.98	0.47
2:N:160:GLY:O	2:N:161:GLU:HG2	2.14	0.47
1:P:10:PHE:CD2	1:P:17:LEU:HD23	2.49	0.47
1:P:122:PHE:CE2	1:P:700:VAL:HA	2.50	0.47
1:P:136:ASN:O	1:P:139:VAL:N	2.47	0.47
1:P:406:VAL:CG1	1:P:407:GLY:H	2.28	0.47
1:P:715:VAL:CG1	1:P:720:PHE:HB2	2.45	0.47
2:Q:140:PHE:HB3	2:Q:144:VAL:HG12	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:311:ASP:CB	1:A:312:TYR:CE1	2.98	0.47
1:A:818:TYR:CD2	2:B:89:LYS:O	2.67	0.47
3:C:62:ALA:O	3:C:63:ILE:HG13	2.13	0.47
1:D:134:VAL:C	1:D:136:ASN:H	2.16	0.47
1:D:568:PRO:HD3	1:D:579:PHE:HA	1.96	0.47
1:D:831:TRP:CZ3	2:E:34:ILE:HD13	2.50	0.47
1:G:30:MLY:HB3	1:G:31:PRO:HD2	1.97	0.47
1:G:568:PRO:HD3	1:G:579:PHE:HA	1.97	0.47
2:H:149:ASP:CG	2:H:150:TYR:N	2.49	0.47
1:J:84:MLY:CH2	1:J:719:ASP:O	2.63	0.47
1:J:93:MET:SD	1:J:716:LEU:HB2	2.54	0.47
1:J:410:ASN:HA	4:W:334:GLU:HB3	1.28	0.47
1:J:640:LYS:C	4:W:23:GLY:CA	2.64	0.47
1:J:757:GLN:N	1:J:776:GLU:HB3	2.30	0.47
2:K:160:GLY:O	2:K:161:GLU:HG2	2.14	0.47
3:L:50:LEU:O	3:L:53:PRO:CD	2.63	0.47
1:M:122:PHE:CE2	1:M:700:VAL:HA	2.49	0.47
1:M:248:MLY:HE2	1:M:250:ILE:HD11	1.95	0.47
1:M:496:PHE:CE2	1:M:514:ASP:HA	2.50	0.47
1:M:737:PHE:CG	3:O:85:GLU:OE1	2.65	0.47
1:P:41:VAL:CG1	1:P:42:HIS:N	2.75	0.47
1:P:543:PRO:HD2	4:1:146:GLY:O	2.15	0.47
3:R:50:LEU:O	3:R:53:PRO:CD	2.63	0.47
4:1:162:ASN:OD1	4:1:277:THR:HG22	2.15	0.47
4:4:162:ASN:OD1	4:4:277:THR:HG22	2.15	0.47
4:6:162:ASN:OD1	4:6:277:THR:HG22	2.15	0.47
1:A:106:LEU:HD12	1:A:117:THR:HG21	1.96	0.47
1:A:529:PRO:HB2	4:8:354:GLN:HB3	1.97	0.47
1:A:530:MET:HE3	4:8:355:MET:SD	2.55	0.47
1:A:732:ILE:CG2	1:A:747:LEU:CD1	0.65	0.47
1:A:819:ASN:HD22	2:B:90:GLY:C	2.04	0.47
2:B:139:ALA:C	2:B:141:PRO:HD3	2.33	0.47
1:D:311:ASP:CB	1:D:312:TYR:CE1	2.98	0.47
1:D:436:MLY:HE3	1:D:626:TYR:HE1	1.77	0.47
1:D:564:ASN:HD22	1:D:582:VAL:HB	1.79	0.47
1:D:725:ARG:CG	1:D:733:PRO:HA	2.43	0.47
1:D:732:ILE:HD11	1:D:782:MLY:CH1	2.37	0.47
1:G:311:ASP:CB	1:G:312:TYR:CE1	2.98	0.47
1:G:629:GLU:CB	1:G:645:SER:N	2.74	0.47
3:I:52:ASN:CB	3:I:53:PRO:CD	2.92	0.47
1:M:311:ASP:CB	1:M:312:TYR:CE1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:374:GLN:NE2	1:M:403:TYR:CE1	2.83	0.47
1:M:629:GLU:HG2	1:M:643:GLY:C	2.35	0.47
1:M:786:ILE:C	1:M:788:THR:N	2.68	0.47
1:M:792:ALA:HB2	3:O:42:THR:N	2.30	0.47
1:P:642:LYS:HA	4:1:21:PHE:C	2.35	0.47
1:A:564:ASN:HD22	1:A:582:VAL:HB	1.79	0.46
1:A:732:ILE:HG21	1:A:747:LEU:CD1	0.64	0.46
1:D:496:PHE:CE2	1:D:514:ASP:HA	2.50	0.46
1:D:629:GLU:CA	1:D:643:GLY:C	2.73	0.46
1:D:639:GLY:CA	4:9:344:SER:O	2.40	0.46
1:D:747:LEU:HD22	1:D:782:MLY:HH11	1.93	0.46
1:G:82:PRO:HG2	1:G:85:TYR:CE2	2.50	0.46
1:G:134:VAL:C	1:G:136:ASN:H	2.16	0.46
1:G:214:MET:C	1:G:340:ILE:CD1	2.82	0.46
1:G:635:GLY:HA3	4:V:334:GLU:CG	2.30	0.46
1:G:783:LEU:N	1:G:783:LEU:CD1	2.78	0.46
1:J:154:HIS:CE1	1:J:156:PHE:CE2	3.02	0.46
1:J:449:LEU:HA	1:J:449:LEU:HD12	1.60	0.46
1:J:496:PHE:CE2	1:J:514:ASP:HA	2.50	0.46
1:J:550:PHE:CE2	1:J:592:ILE:CG2	2.97	0.46
1:J:629:GLU:CB	1:J:645:SER:N	2.73	0.46
1:J:642:LYS:HA	4:W:21:PHE:C	2.35	0.46
2:K:88:LEU:HB3	2:K:91:ALA:HB2	1.98	0.46
1:M:42:HIS:O	1:M:45:GLN:O	2.33	0.46
1:M:529:PRO:HB2	4:Z:354:GLN:HB3	1.98	0.46
1:P:530:MET:CE	4:1:354:GLN:HG3	2.35	0.46
1:P:637:LYS:HD2	4:1:144:ALA:HB3	1.20	0.46
1:P:732:ILE:H	1:P:733:PRO:CD	2.23	0.46
1:P:799:MET:SD	3:R:32:ASP:HA	2.55	0.46
3:R:52:ASN:CB	3:R:53:PRO:CD	2.92	0.46
3:R:53:PRO:O	3:R:55:LYS:HG3	2.14	0.46
4:4:299:MET:HE2	4:4:331:ALA:HB2	1.97	0.46
4:8:287:ILE:CB	4:V:204:ALA:H	2.13	0.46
4:X:6:THR:HG22	4:X:101:HIS:HA	1.97	0.46
1:A:543:PRO:HD2	4:8:146:GLY:O	2.15	0.46
1:A:640:LYS:C	4:8:23:GLY:C	2.74	0.46
2:B:160:GLY:O	2:B:161:GLU:HG2	2.14	0.46
1:G:218:LEU:CD2	1:G:222:ILE:CG1	2.85	0.46
1:G:695:LEU:HB3	1:G:701:LEU:HD22	1.97	0.46
1:G:714:ARG:HD3	1:G:766:PHE:CE2	2.51	0.46
1:G:715:VAL:CG1	1:G:720:PHE:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:818:TYR:CB	2:H:90:GLY:HA3	2.40	0.46
1:J:400:ALA:HB1	1:J:606:THR:CG2	2.45	0.46
1:J:762:HIS:CD2	1:J:762:HIS:N	2.78	0.46
1:M:411:GLU:H	4:Z:333:PRO:HB2	1.81	0.46
1:M:559:LEU:HD23	1:M:560:GLY:N	2.30	0.46
1:M:643:GLY:CA	4:Z:24:ASP:OD1	2.61	0.46
2:N:139:ALA:C	2:N:141:PRO:HD3	2.33	0.46
1:P:821:ARG:CZ	2:Q:127:ARG:CD	2.94	0.46
2:Q:88:LEU:HB3	2:Q:91:ALA:HB2	1.98	0.46
4:2:6:THR:HG22	4:2:101:HIS:HA	1.97	0.46
4:V:6:THR:HG22	4:V:101:HIS:HA	1.97	0.46
4:Z:6:THR:HG22	4:Z:101:HIS:HA	1.97	0.46
1:A:538:GLU:HA	4:8:351:THR:H	1.78	0.46
1:A:559:LEU:HD23	1:A:560:GLY:N	2.30	0.46
1:A:715:VAL:CG1	1:A:720:PHE:HB2	2.45	0.46
2:B:137:TRP:CA	2:B:145:ALA:CB	2.82	0.46
1:G:206:LYS:CE	1:G:217:THR:HG23	2.29	0.46
1:G:542:PHE:CD2	4:V:143:TYR:CD1	3.03	0.46
1:J:374:GLN:NE2	1:J:403:TYR:CE1	2.84	0.46
1:J:564:ASN:HD22	1:J:582:VAL:HB	1.79	0.46
1:J:714:ARG:HD3	1:J:766:PHE:CE2	2.50	0.46
1:J:715:VAL:CG1	1:J:720:PHE:HB2	2.45	0.46
1:M:540:CYS:N	4:Z:349:LEU:HD11	2.30	0.46
1:P:642:LYS:CB	4:1:24:ASP:O	2.60	0.46
1:P:796:GLY:HA2	3:R:35:ARG:HG2	1.97	0.46
4:5:162:ASN:OD1	4:5:277:THR:HG22	2.15	0.46
4:7:162:ASN:OD1	4:7:277:THR:HG22	2.15	0.46
4:7:299:MET:HE2	4:7:331:ALA:HB2	1.96	0.46
1:A:265:ILE:CG2	1:A:266:GLU:N	2.78	0.46
1:A:499:GLU:CD	1:A:766:PHE:CZ	2.72	0.46
1:A:732:ILE:HG23	1:A:747:LEU:HD12	0.94	0.46
1:A:836:PHE:HD2	2:B:161:GLU:OE1	1.99	0.46
3:C:50:LEU:O	3:C:53:PRO:CD	2.63	0.46
1:D:107:MLY:CB	1:D:686:MET:HE2	2.39	0.46
1:D:361:TYR:O	1:D:364:LEU:HB2	2.16	0.46
1:D:642:LYS:HA	4:9:21:PHE:C	2.36	0.46
1:G:559:LEU:HD23	1:G:560:GLY:N	2.30	0.46
1:G:732:ILE:HG23	1:G:747:LEU:HD12	0.95	0.46
1:J:139:VAL:HG12	1:J:143:TYR:HD2	1.81	0.46
1:J:361:TYR:O	1:J:364:LEU:HB2	2.16	0.46
1:J:418:THR:CG2	1:J:419:VAL:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:559:LEU:HD23	1:J:560:GLY:N	2.30	0.46
1:J:732:ILE:HG23	1:J:747:LEU:HD12	0.95	0.46
2:K:137:TRP:CA	2:K:145:ALA:HB2	2.37	0.46
1:M:82:PRO:HG2	1:M:85:TYR:CE2	2.50	0.46
1:M:218:LEU:HA	1:M:221:GLN:H	1.79	0.46
1:M:783:LEU:CD1	1:M:783:LEU:N	2.78	0.46
1:P:139:VAL:HG12	1:P:143:TYR:HD2	1.81	0.46
1:P:188:ASN:ND2	1:P:674:CYS:SG	2.88	0.46
4:4:6:THR:HG22	4:4:101:HIS:HA	1.97	0.46
4:9:253:GLU:HA	4:9:256:ARG:CG	2.42	0.46
4:X:162:ASN:OD1	4:X:277:THR:HG22	2.15	0.46
1:A:214:MET:HA	1:A:340:ILE:CD1	2.41	0.46
1:A:361:TYR:O	1:A:364:LEU:HB2	2.16	0.46
1:A:448:GLN:C	1:A:450:ASP:H	2.19	0.46
1:A:783:LEU:N	1:A:783:LEU:CD1	2.79	0.46
1:D:42:HIS:O	1:D:45:GLN:O	2.33	0.46
1:D:106:LEU:HD12	1:D:117:THR:HG21	1.96	0.46
1:D:332:MET:O	1:D:336:SER:OG	2.27	0.46
1:D:524:GLU:HB3	1:D:528:MLY:HG2	1.97	0.46
1:D:559:LEU:HD23	1:D:560:GLY:N	2.30	0.46
1:G:84:MLY:CH2	1:G:719:ASP:O	2.64	0.46
1:J:311:ASP:CB	1:J:312:TYR:CE1	2.98	0.46
1:J:406:VAL:CG1	1:J:407:GLY:H	2.28	0.46
1:J:411:GLU:H	4:W:333:PRO:HB2	1.81	0.46
1:J:543:PRO:CD	4:W:143:TYR:O	2.64	0.46
1:J:543:PRO:HD2	4:W:146:GLY:O	2.15	0.46
1:J:642:LYS:CB	4:W:24:ASP:O	2.60	0.46
1:J:795:ARG:HH22	3:L:44:ALA:N	2.14	0.46
2:K:114:LYS:CG	2:K:146:GLY:HA2	2.46	0.46
1:P:106:LEU:HD12	1:P:117:THR:HG21	1.96	0.46
1:P:400:ALA:HB1	1:P:606:THR:CG2	2.45	0.46
1:P:418:THR:CG2	1:P:419:VAL:N	2.79	0.46
4:1:288:ASP:OD1	4:3:62:ARG:CG	2.63	0.46
4:8:6:THR:HG22	4:8:101:HIS:HA	1.97	0.46
1:A:42:HIS:O	1:A:45:GLN:O	2.33	0.46
1:A:218:LEU:HD22	1:A:222:ILE:HG13	1.95	0.46
1:A:640:LYS:HB3	1:A:645:SER:CB	2.42	0.46
1:A:835:PHE:O	1:A:839:MLY:N	2.49	0.46
2:B:121:LEU:O	2:B:128:PHE:CG	2.61	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:485:GLU:OE1	1:D:583:HIS:ND1	2.49	0.46
2:E:114:LYS:CG	2:E:146:GLY:HA2	2.46	0.46
1:G:529:PRO:HB2	4:V:354:GLN:HB3	1.98	0.46
1:G:543:PRO:HD2	4:V:146:GLY:O	2.15	0.46
1:J:265:ILE:CG2	1:J:266:GLU:N	2.79	0.46
1:J:529:PRO:HB2	4:W:354:GLN:HB3	1.97	0.46
1:J:643:GLY:CA	4:W:24:ASP:OD1	2.61	0.46
1:M:543:PRO:HD2	4:Z:146:GLY:O	2.15	0.46
1:M:732:ILE:CG2	1:M:747:LEU:HD12	0.35	0.46
1:M:831:TRP:HZ3	2:N:34:ILE:CD1	2.24	0.46
2:N:88:LEU:HB3	2:N:91:ALA:HB2	1.98	0.46
1:P:361:TYR:O	1:P:364:LEU:HB2	2.16	0.46
1:P:496:PHE:CE2	1:P:514:ASP:HA	2.50	0.46
1:P:640:LYS:C	4:1:23:GLY:CA	2.64	0.46
1:P:718:ALA:CB	3:R:85:GLU:OE1	2.64	0.46
4:2:366:GLY:O	4:2:369:ILE:HG22	2.16	0.46
4:8:366:GLY:O	4:8:369:ILE:HG22	2.16	0.46
4:V:366:GLY:O	4:V:369:ILE:HG22	2.16	0.46
1:A:30:MLY:HB3	1:A:31:PRO:HD2	1.97	0.46
1:A:82:PRO:HG2	1:A:85:TYR:CE2	2.50	0.46
1:A:107:MLY:CB	1:A:686:MET:HE2	2.40	0.46
1:A:496:PHE:CE2	1:A:514:ASP:HA	2.50	0.46
1:A:629:GLU:HG2	1:A:643:GLY:C	2.35	0.46
1:D:139:VAL:HG12	1:D:143:TYR:HD2	1.81	0.46
1:D:218:LEU:HD22	1:D:222:ILE:HG13	1.95	0.46
1:D:265:ILE:CG2	1:D:266:GLU:N	2.78	0.46
1:D:713:SER:N	1:D:771:LEU:HD23	1.64	0.46
1:D:810:ARG:HG2	1:D:810:ARG:NH1	2.29	0.46
2:E:88:LEU:HB3	2:E:91:ALA:HB2	1.98	0.46
1:G:769:ALA:HB3	1:G:770:GLY:HA2	1.76	0.46
1:J:524:GLU:HB3	1:J:528:MLY:HG2	1.96	0.46
1:J:791:GLN:NE2	3:L:115:GLY:CA	2.78	0.46
1:M:714:ARG:HD3	1:M:766:PHE:CE2	2.50	0.46
1:P:311:ASP:CB	1:P:312:TYR:CE1	2.98	0.46
1:P:695:LEU:HB3	1:P:701:LEU:HD22	1.97	0.46
1:P:701:LEU:HD12	1:P:701:LEU:HA	1.55	0.46
4:4:288:ASP:OD2	4:6:203:THR:OG1	2.32	0.46
4:5:366:GLY:O	4:5:369:ILE:HG22	2.16	0.46
4:Z:366:GLY:O	4:Z:369:ILE:HG22	2.16	0.46
1:A:206:LYS:CE	1:A:217:THR:HG23	2.29	0.46
1:A:374:GLN:NE2	1:A:403:TYR:CE1	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:774:LEU:HD23	1:A:778:MET:HE3	1.98	0.46
1:D:695:LEU:HB3	1:D:701:LEU:HD22	1.97	0.46
1:G:496:PHE:CE2	1:G:514:ASP:HA	2.50	0.46
1:G:791:GLN:HB3	3:I:116:GLU:HG3	1.98	0.46
1:J:218:LEU:HD22	1:J:222:ILE:HG13	1.95	0.46
1:M:332:MET:O	1:M:336:SER:OG	2.27	0.46
1:M:695:LEU:HB3	1:M:701:LEU:HD22	1.97	0.46
2:N:112:ILE:O	2:N:148:VAL:HA	2.16	0.46
1:P:529:PRO:HB2	4:I:354:GLN:HB3	1.97	0.46
1:P:732:ILE:HG21	1:P:747:LEU:CD1	0.63	0.46
4:W:286:ASP:HA	4:Y:202:THR:HG22	1.31	0.46
1:A:144:ARG:HA	1:A:144:ARG:HD2	1.78	0.46
1:A:292:MET:HE1	1:A:309:PRO:CG	2.45	0.46
1:A:714:ARG:HD3	1:A:766:PHE:CE2	2.50	0.46
2:B:114:LYS:CG	2:B:146:GLY:HA2	2.46	0.46
1:D:229:LEU:HD12	1:D:229:LEU:HA	1.75	0.46
1:D:418:THR:CG2	1:D:419:VAL:N	2.79	0.46
1:D:714:ARG:HD3	1:D:766:PHE:CE2	2.50	0.46
1:G:361:TYR:O	1:G:364:LEU:HB2	2.16	0.46
1:G:543:PRO:CD	4:V:143:TYR:O	2.64	0.46
1:G:629:GLU:HG2	1:G:643:GLY:C	2.35	0.46
1:G:643:GLY:CA	4:V:24:ASP:OD1	2.62	0.46
1:G:715:VAL:HG11	1:G:720:PHE:CD1	2.50	0.46
1:G:757:GLN:OE1	1:G:775:LEU:HB2	2.16	0.46
1:J:94:MET:O	1:J:713:SER:CA	2.56	0.46
1:J:322:VAL:HB	1:J:325:ILE:HG13	1.98	0.46
1:J:723:ARG:NH1	1:J:723:ARG:CG	2.79	0.46
1:M:206:LYS:HD3	1:M:217:THR:OG1	2.16	0.46
1:M:642:LYS:HA	4:Z:21:PHE:C	2.35	0.46
1:M:805:ALA:O	1:M:809:ARG:HB2	2.16	0.46
1:P:540:CYS:N	4:I:349:LEU:HD11	2.31	0.46
1:P:723:ARG:NH1	1:P:723:ARG:CG	2.79	0.46
1:P:767:PHE:CB	1:P:772:LEU:HD13	2.38	0.46
4:I:6:THR:HG22	4:I:101:HIS:HA	1.97	0.46
4:V:190:MET:O	4:V:194:THR:HG23	2.16	0.46
4:X:223:PHE:CD2	4:X:259:GLU:HG3	2.51	0.46
4:X:299:MET:HE2	4:X:331:ALA:HB2	1.98	0.46
4:Z:253:GLU:HA	4:Z:256:ARG:CG	2.42	0.46
1:D:89:GLU:CD	1:D:153:PRO:HD2	2.36	0.46
1:D:332:MET:H	1:D:332:MET:HG2	1.52	0.46
1:D:411:GLU:H	4:9:333:PRO:CB	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:540:CYS:N	4:9:349:LEU:HD11	2.31	0.46
1:D:715:VAL:CG1	1:D:720:PHE:HB2	2.46	0.46
1:G:99:GLU:N	1:G:100:PRO:CD	2.79	0.46
1:J:93:MET:HA	1:J:714:ARG:N	2.27	0.46
1:J:188:ASN:ND2	1:J:674:CYS:SG	2.88	0.46
1:J:732:ILE:CG2	1:J:747:LEU:HD12	0.35	0.46
1:J:783:LEU:N	1:J:783:LEU:CD1	2.78	0.46
1:J:839:MLY:HH13	2:K:159:HIS:HD2	1.81	0.46
1:M:30:MLY:HB3	1:M:31:PRO:HD2	1.97	0.46
1:M:322:VAL:HB	1:M:325:ILE:HG13	1.98	0.46
1:M:335:ASP:OD1	1:M:348:MLY:NZ	2.49	0.46
1:M:361:TYR:O	1:M:364:LEU:HB2	2.16	0.46
1:M:715:VAL:HG11	1:M:720:PHE:CD1	2.50	0.46
1:P:42:HIS:O	1:P:45:GLN:O	2.33	0.46
1:P:374:GLN:NE2	1:P:403:TYR:CE1	2.84	0.46
1:P:524:GLU:HB3	1:P:528:MLY:HG2	1.96	0.46
1:P:629:GLU:CA	1:P:643:GLY:C	2.73	0.46
1:P:629:GLU:HG2	1:P:643:GLY:C	2.35	0.46
1:P:722:GLN:HE21	3:R:85:GLU:H	1.57	0.46
2:Q:112:ILE:O	2:Q:148:VAL:HA	2.16	0.46
4:2:223:PHE:CD2	4:2:259:GLU:HG3	2.51	0.46
4:2:299:MET:HE2	4:2:331:ALA:HB2	1.98	0.46
4:3:223:PHE:CD2	4:3:259:GLU:HG3	2.51	0.46
4:5:6:THR:HG22	4:5:101:HIS:HA	1.97	0.46
4:6:190:MET:O	4:6:194:THR:HG23	2.16	0.46
4:8:287:ILE:HA	4:V:202:THR:HG21	1.59	0.46
4:W:6:THR:HG22	4:W:101:HIS:HA	1.97	0.46
1:A:89:GLU:CD	1:A:153:PRO:HD2	2.37	0.45
1:A:506:GLU:HG2	1:A:760:PHE:O	1.90	0.45
1:A:540:CYS:N	4:8:349:LEU:HD11	2.31	0.45
1:A:612:GLN:NE2	1:A:627:GLY:H	2.14	0.45
1:A:642:LYS:HA	4:8:21:PHE:C	2.36	0.45
1:D:543:PRO:HD2	4:9:146:GLY:O	2.15	0.45
1:D:640:LYS:C	4:9:23:GLY:C	2.74	0.45
3:I:50:LEU:O	3:I:53:PRO:CD	2.63	0.45
1:J:326:ASP:O	1:J:330:GLU:HG2	2.16	0.45
1:J:667:THR:O	1:J:669:PRO:HD3	2.17	0.45
1:J:792:ALA:HB3	3:L:42:THR:CG2	2.21	0.45
1:M:330:GLU:O	1:M:333:ALA:HB3	2.16	0.45
1:P:326:ASP:O	1:P:330:GLU:HG2	2.16	0.45
1:P:667:THR:O	1:P:669:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:732:ILE:CG2	1:P:747:LEU:CD1	0.65	0.45
2:Q:114:LYS:CG	2:Q:146:GLY:HA2	2.46	0.45
4:1:205:GLU:CB	4:Y:287:ILE:HD13	2.45	0.45
4:8:190:MET:O	4:8:194:THR:HG23	2.16	0.45
4:9:324:THR:N	4:W:245:GLY:CA	2.69	0.45
4:V:223:PHE:CD2	4:V:259:GLU:HG3	2.51	0.45
1:A:87:MLY:HD3	1:A:87:MLY:HH12	1.62	0.45
1:A:326:ASP:O	1:A:330:GLU:HG2	2.16	0.45
1:A:553:MLY:NZ	4:V:45:VAL:CA	2.58	0.45
1:A:695:LEU:HB3	1:A:701:LEU:HD22	1.97	0.45
1:D:406:VAL:CG1	1:D:407:GLY:H	2.28	0.45
1:D:530:MET:CE	4:9:354:GLN:HG3	2.35	0.45
1:D:543:PRO:CD	4:9:143:TYR:O	2.64	0.45
2:E:139:ALA:C	2:E:141:PRO:HD3	2.32	0.45
1:G:292:MET:HE1	1:G:309:PRO:CG	2.47	0.45
1:G:295:MLY:CG	1:G:332:MET:HE1	2.45	0.45
1:G:374:GLN:NE2	1:G:403:TYR:CE1	2.84	0.45
1:G:540:CYS:N	4:V:349:LEU:HD11	2.31	0.45
1:G:640:LYS:C	4:V:23:GLY:C	2.75	0.45
1:G:642:LYS:HA	4:V:21:PHE:C	2.36	0.45
1:G:835:PHE:O	1:G:839:MLY:N	2.49	0.45
2:H:112:ILE:O	2:H:148:VAL:HA	2.16	0.45
1:J:42:HIS:O	1:J:45:GLN:O	2.33	0.45
1:J:103:LEU:HD22	1:J:692:LEU:HG	1.98	0.45
1:J:106:LEU:HD12	1:J:106:LEU:HA	1.79	0.45
1:J:186:THR:O	1:J:190:MLY:HG2	2.17	0.45
1:J:335:ASP:OD1	1:J:348:MLY:NZ	2.49	0.45
1:J:476:GLU:OE2	1:J:598:MLY:HH13	2.16	0.45
1:J:485:GLU:OE1	1:J:583:HIS:ND1	2.49	0.45
1:J:829:TRP:CZ2	2:K:83:MET:HE1	2.50	0.45
1:M:544:LYS:HZ3	4:2:45:VAL:HG21	1.79	0.45
1:M:552:ASN:HB2	4:2:49:GLN:CD	2.36	0.45
1:M:732:ILE:CG2	1:M:747:LEU:CD1	0.65	0.45
1:P:265:ILE:CG2	1:P:266:GLU:N	2.78	0.45
1:P:278:GLN:HE21	1:P:278:GLN:HB3	1.42	0.45
1:P:335:ASP:OD1	1:P:348:MLY:NZ	2.49	0.45
1:P:448:GLN:C	1:P:450:ASP:H	2.19	0.45
1:P:476:GLU:OE2	1:P:598:MLY:HH13	2.16	0.45
1:P:725:ARG:HH21	1:P:733:PRO:HB2	1.82	0.45
1:P:806:MET:CA	1:P:809:ARG:HB2	2.46	0.45
1:P:835:PHE:O	1:P:839:MLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:32:PRO:HB2	4:1:34:ILE:HD11	1.98	0.45
4:2:203:THR:HB	4:Z:287:ILE:CG1	2.45	0.45
4:3:366:GLY:O	4:3:369:ILE:HG22	2.16	0.45
4:4:190:MET:O	4:4:194:THR:HG23	2.16	0.45
4:4:366:GLY:O	4:4:369:ILE:HG22	2.16	0.45
4:6:6:THR:HG22	4:6:101:HIS:HA	1.97	0.45
4:6:299:MET:HE2	4:6:331:ALA:HB2	1.98	0.45
4:7:223:PHE:CD2	4:7:259:GLU:HG3	2.51	0.45
4:8:299:MET:HE2	4:8:331:ALA:HB2	1.98	0.45
4:9:223:PHE:CD2	4:9:259:GLU:HG3	2.51	0.45
4:W:253:GLU:HA	4:W:256:ARG:CG	2.42	0.45
4:X:291:LYS:HB2	4:Z:246:GLN:H	1.70	0.45
4:X:292:ASP:OD1	4:Z:244:ASP:CA	2.64	0.45
4:Y:6:THR:HG22	4:Y:101:HIS:HA	1.97	0.45
4:Y:223:PHE:CD2	4:Y:259:GLU:HG3	2.52	0.45
4:Z:190:MET:O	4:Z:194:THR:HG23	2.16	0.45
1:A:449:LEU:HD12	1:A:449:LEU:HA	1.60	0.45
1:A:464:ILE:CG2	1:A:465:ALA:N	2.79	0.45
1:A:543:PRO:CD	4:8:143:TYR:O	2.64	0.45
1:A:709:LYS:C	1:A:710:GLY:N	2.70	0.45
1:A:798:LEU:HD12	1:A:798:LEU:HA	1.37	0.45
1:D:82:PRO:HG2	1:D:85:TYR:CE2	2.50	0.45
1:D:176:LEU:N	1:D:176:LEU:CD1	2.75	0.45
1:D:725:ARG:HH21	1:D:733:PRO:HB2	1.81	0.45
1:D:794:CYS:O	1:D:797:PHE:HB3	2.17	0.45
1:D:797:PHE:HD1	3:F:146:ILE:O	1.99	0.45
1:G:107:MLY:CB	1:G:686:MET:HE2	2.41	0.45
1:G:278:GLN:HE21	1:G:278:GLN:HB3	1.42	0.45
1:G:346:ASP:O	1:G:350:ALA:N	2.46	0.45
1:G:640:LYS:HB3	1:G:645:SER:CB	2.42	0.45
1:G:813:ILE:HG21	2:H:128:PHE:HE1	1.69	0.45
2:H:88:LEU:HB3	2:H:91:ALA:HB2	1.98	0.45
1:J:179:GLY:O	1:J:185:LYS:HE2	2.17	0.45
1:J:292:MET:HE1	1:J:309:PRO:CG	2.46	0.45
1:J:488:GLN:O	1:J:491:PHE:HB3	2.16	0.45
1:J:821:ARG:HH12	2:K:127:ARG:NE	2.15	0.45
1:M:218:LEU:HD22	1:M:222:ILE:HG13	1.95	0.45
1:M:292:MET:CE	1:M:309:PRO:HA	2.39	0.45
1:M:642:LYS:NZ	4:Z:340:TRP:O	2.50	0.45
1:M:723:ARG:NH1	1:M:723:ARG:CG	2.79	0.45
1:M:725:ARG:CG	1:M:733:PRO:HA	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:805:ALA:O	1:M:808:GLU:CA	2.64	0.45
1:P:82:PRO:HG2	1:P:85:TYR:CE2	2.50	0.45
1:P:354:LEU:HD12	1:P:354:LEU:HA	1.56	0.45
1:P:723:ARG:HH12	1:P:783:LEU:CD1	2.28	0.45
1:P:813:ILE:CG2	2:Q:128:PHE:CE1	2.99	0.45
4:2:190:MET:O	4:2:194:THR:HG23	2.16	0.45
4:5:190:MET:O	4:5:194:THR:HG23	2.16	0.45
4:W:223:PHE:CD2	4:W:259:GLU:HG3	2.52	0.45
4:X:291:LYS:HB3	4:Z:246:GLN:N	2.25	0.45
1:A:206:LYS:HD3	1:A:217:THR:OG1	2.16	0.45
1:A:330:GLU:O	1:A:333:ALA:HB3	2.17	0.45
1:A:642:LYS:NZ	4:8:340:TRP:O	2.50	0.45
1:D:144:ARG:HA	1:D:144:ARG:HD2	1.78	0.45
1:D:642:LYS:HB3	4:9:24:ASP:HB2	1.37	0.45
1:D:642:LYS:NZ	4:9:340:TRP:O	2.50	0.45
1:D:712:PRO:HB2	1:D:713:SER:H	1.61	0.45
1:D:831:TRP:CG	2:E:51:PHE:CZ	3.04	0.45
1:G:229:LEU:HD12	1:G:229:LEU:HA	1.75	0.45
1:J:540:CYS:N	4:W:349:LEU:HD11	2.30	0.45
1:J:818:TYR:CZ	2:K:127:ARG:CZ	2.87	0.45
1:M:448:GLN:C	1:M:450:ASP:H	2.19	0.45
1:P:206:LYS:HD3	1:P:217:THR:OG1	2.16	0.45
1:P:296:MLY:O	1:P:299:LEU:HB2	2.17	0.45
1:P:485:GLU:OE1	1:P:583:HIS:ND1	2.49	0.45
1:P:578:HIS:HB3	1:P:592:ILE:CD1	2.38	0.45
1:P:725:ARG:HA	1:P:732:ILE:HG22	1.99	0.45
4:1:223:PHE:CD2	4:1:259:GLU:HG3	2.51	0.45
4:7:253:GLU:HA	4:7:256:ARG:CG	2.42	0.45
4:8:223:PHE:CD2	4:8:259:GLU:HG3	2.51	0.45
4:9:6:THR:HG22	4:9:101:HIS:HA	1.97	0.45
4:Z:223:PHE:CD2	4:Z:259:GLU:HG3	2.52	0.45
1:A:296:MLY:O	1:A:299:LEU:HB2	2.17	0.45
1:A:418:THR:CG2	1:A:419:VAL:N	2.79	0.45
1:A:488:GLN:O	1:A:491:PHE:HB3	2.17	0.45
1:A:794:CYS:O	1:A:797:PHE:HB3	2.17	0.45
1:D:346:ASP:O	1:D:350:ALA:N	2.46	0.45
1:D:724:TYR:HD1	1:D:727:LEU:CD1	2.27	0.45
3:F:50:LEU:O	3:F:53:PRO:CD	2.63	0.45
1:G:139:VAL:HG12	1:G:143:TYR:HD2	1.81	0.45
1:G:335:ASP:OD1	1:G:348:MLY:NZ	2.49	0.45
1:G:411:GLU:H	4:V:333:PRO:CB	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:448:GLN:C	1:G:450:ASP:H	2.19	0.45
1:G:747:LEU:C	1:G:749:GLY:H	2.20	0.45
1:J:296:MLY:O	1:J:299:LEU:HB2	2.17	0.45
1:J:724:TYR:HD1	1:J:727:LEU:CD1	2.27	0.45
1:J:829:TRP:HZ2	2:K:83:MET:HE1	1.82	0.45
1:J:839:MLY:HH11	2:K:158:THR:HG22	1.98	0.45
1:M:186:THR:O	1:M:190:MLY:HG2	2.17	0.45
1:P:322:VAL:HB	1:P:325:ILE:HG13	1.98	0.45
1:P:408:VAL:CG1	4:1:332:PRO:HB3	2.40	0.45
1:P:488:GLN:O	1:P:491:PHE:HB3	2.16	0.45
1:P:629:GLU:CB	1:P:645:SER:N	2.73	0.45
1:P:724:TYR:HD1	1:P:727:LEU:CD1	2.27	0.45
1:P:725:ARG:NE	1:P:733:PRO:CB	1.95	0.45
1:P:786:ILE:C	1:P:789:ALA:H	2.18	0.45
4:4:223:PHE:CD2	4:4:259:GLU:HG3	2.52	0.45
4:6:366:GLY:O	4:6:369:ILE:HG22	2.16	0.45
1:A:14:ALA:N	1:A:15:PRO:HD2	2.32	0.45
1:A:322:VAL:HB	1:A:325:ILE:HG13	1.98	0.45
1:A:335:ASP:OD1	1:A:348:MLY:NZ	2.49	0.45
1:A:411:GLU:H	4:8:333:PRO:CB	2.30	0.45
1:D:37:SER:O	1:D:38:VAL:HG23	2.17	0.45
1:D:529:PRO:HB2	4:9:354:GLN:HB3	1.98	0.45
2:E:112:ILE:O	2:E:148:VAL:HA	2.17	0.45
1:G:106:LEU:HD12	1:G:106:LEU:HA	1.80	0.45
1:G:206:LYS:HD3	1:G:217:THR:OG1	2.16	0.45
1:G:322:VAL:HB	1:G:325:ILE:HG13	1.98	0.45
1:G:464:ILE:CG2	1:G:465:ALA:N	2.80	0.45
1:G:568:PRO:CG	1:G:578:HIS:H	2.30	0.45
1:G:642:LYS:NZ	4:V:340:TRP:O	2.50	0.45
1:G:725:ARG:CG	1:G:733:PRO:CA	2.95	0.45
1:G:725:ARG:HH21	1:G:733:PRO:HB2	1.81	0.45
1:G:796:GLY:CA	3:I:35:ARG:NH2	2.80	0.45
1:J:30:MLY:HB3	1:J:31:PRO:HD2	1.97	0.45
1:J:82:PRO:HG2	1:J:85:TYR:CE2	2.50	0.45
1:J:99:GLU:N	1:J:100:PRO:CD	2.80	0.45
1:J:354:LEU:HD12	1:J:354:LEU:HA	1.56	0.45
1:J:448:GLN:C	1:J:450:ASP:H	2.19	0.45
1:J:642:LYS:NZ	4:W:340:TRP:O	2.50	0.45
1:J:756:THR:HG23	1:J:776:GLU:CD	2.24	0.45
1:J:835:PHE:O	1:J:839:MLY:N	2.49	0.45
1:M:89:GLU:CD	1:M:153:PRO:HD2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:265:ILE:CG2	1:M:266:GLU:N	2.78	0.45
1:M:410:ASN:HA	4:Z:334:GLU:HB3	1.29	0.45
1:M:476:GLU:OE2	1:M:598:MLY:HH13	2.16	0.45
2:N:137:TRP:CA	2:N:145:ALA:HB2	2.37	0.45
1:P:55:MLY:HH23	1:P:60:VAL:HG22	1.99	0.45
1:P:89:GLU:CD	1:P:153:PRO:HD2	2.36	0.45
1:P:103:LEU:HD22	1:P:692:LEU:HG	1.98	0.45
1:P:134:VAL:C	1:P:136:ASN:H	2.16	0.45
1:P:464:ILE:CG2	1:P:465:ALA:N	2.79	0.45
1:P:642:LYS:NZ	4:1:340:TRP:O	2.50	0.45
1:P:794:CYS:O	1:P:797:PHE:HB3	2.17	0.45
4:2:287:ILE:HG23	4:4:202:THR:CG2	2.28	0.45
4:2:287:ILE:C	4:4:203:THR:HG22	2.35	0.45
4:3:253:GLU:HA	4:3:256:ARG:CG	2.42	0.45
4:5:32:PRO:HB2	4:5:34:ILE:HD11	1.98	0.45
4:7:190:MET:O	4:7:194:THR:HG23	2.16	0.45
4:V:299:MET:HE2	4:V:331:ALA:HB2	1.99	0.45
4:W:171:LEU:HA	4:W:172:PRO:HD2	1.84	0.45
4:X:366:GLY:O	4:X:369:ILE:HG22	2.16	0.45
1:A:103:LEU:HD22	1:A:692:LEU:HG	1.98	0.45
1:A:139:VAL:HG12	1:A:143:TYR:HD2	1.81	0.45
1:A:163:TYR:O	1:A:166:MET:HB3	2.16	0.45
1:A:194:GLN:HE21	1:A:194:GLN:HB3	1.43	0.45
1:A:568:PRO:CG	1:A:578:HIS:H	2.30	0.45
3:C:69:LEU:HB3	3:C:70:PRO:HD3	1.99	0.45
1:D:173:GLN:HG3	1:D:670:HIS:HD2	1.82	0.45
1:D:206:LYS:HD2	1:D:217:THR:CG2	2.17	0.45
1:D:326:ASP:O	1:D:330:GLU:HG2	2.16	0.45
1:D:464:ILE:CG2	1:D:465:ALA:N	2.79	0.45
1:D:723:ARG:HH11	1:D:723:ARG:HG3	1.79	0.45
1:G:265:ILE:CG2	1:G:266:GLU:N	2.78	0.45
1:G:326:ASP:O	1:G:330:GLU:HG2	2.16	0.45
1:G:330:GLU:O	1:G:333:ALA:HB3	2.16	0.45
1:J:37:SER:O	1:J:38:VAL:HG23	2.17	0.45
1:J:89:GLU:CD	1:J:153:PRO:HD2	2.36	0.45
1:J:540:CYS:C	4:W:349:LEU:HD21	2.36	0.45
1:J:819:ASN:HD21	2:K:92:ASP:HB2	1.58	0.45
2:K:139:ALA:C	2:K:141:PRO:HD3	2.33	0.45
1:M:173:GLN:HG3	1:M:670:HIS:HD2	1.82	0.45
1:M:179:GLY:O	1:M:185:LYS:HE2	2.17	0.45
1:M:640:LYS:HB3	1:M:645:SER:CB	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2:324:THR:OG1	4:4:244:ASP:HB3	2.16	0.45
4:4:32:PRO:HB2	4:4:34:ILE:HD11	1.98	0.45
4:5:223:PHE:CD2	4:5:259:GLU:HG3	2.52	0.45
4:9:190:MET:O	4:9:194:THR:HG23	2.16	0.45
1:A:99:GLU:N	1:A:100:PRO:CD	2.79	0.45
1:A:322:VAL:CG1	1:A:325:ILE:HD11	2.47	0.45
1:A:410:ASN:HA	4:8:334:GLU:HB3	1.29	0.45
1:A:476:GLU:OE2	1:A:598:MLY:HH13	2.17	0.45
1:A:505:MLY:CG	1:A:741:LYS:HZ1	2.18	0.45
2:B:54:MET:SD	2:H:21:GLU:OE1	2.74	0.45
2:B:88:LEU:HB3	2:B:91:ALA:HB2	1.97	0.45
1:D:30:MLY:HB3	1:D:31:PRO:HD2	1.97	0.45
1:D:136:ASN:HA	1:D:137:PRO:HD3	1.49	0.45
1:D:179:GLY:O	1:D:185:LYS:HE2	2.17	0.45
1:D:206:LYS:HD3	1:D:217:THR:OG1	2.16	0.45
1:D:320:ILE:O	1:D:320:ILE:HG22	2.17	0.45
1:D:449:LEU:HD12	1:D:449:LEU:HA	1.60	0.45
1:D:823:PHE:HE1	2:E:161:GLU:N	2.15	0.45
3:F:69:LEU:HB3	3:F:70:PRO:HD3	1.99	0.45
1:G:89:GLU:CD	1:G:153:PRO:HD2	2.36	0.45
1:G:675:ILE:HG23	1:G:676:ILE:N	2.32	0.45
1:J:134:VAL:C	1:J:136:ASN:H	2.16	0.45
1:J:486:MLY:HH22	1:J:527:GLU:CD	2.37	0.45
1:J:775:LEU:HD12	1:J:775:LEU:HA	1.70	0.45
1:J:810:ARG:HG2	1:J:810:ARG:NH1	2.29	0.45
2:K:112:ILE:O	2:K:148:VAL:HA	2.16	0.45
1:M:37:SER:O	1:M:38:VAL:HG23	2.17	0.45
1:M:326:ASP:O	1:M:330:GLU:HG2	2.16	0.45
1:M:464:ILE:CG2	1:M:465:ALA:N	2.79	0.45
1:M:544:LYS:CE	4:2:45:VAL:HG22	2.47	0.45
1:M:725:ARG:NH1	3:O:84:PHE:CE1	2.84	0.45
1:M:794:CYS:O	1:M:797:PHE:HB3	2.17	0.45
1:M:800:ARG:HB3	3:O:149:VAL:CG2	2.41	0.45
1:M:805:ALA:C	1:M:808:GLU:H	2.21	0.45
1:M:829:TRP:HZ3	2:N:84:PHE:CE1	2.25	0.45
1:P:163:TYR:O	1:P:166:MET:HB3	2.17	0.45
1:P:747:LEU:C	1:P:749:GLY:H	2.20	0.45
1:P:819:ASN:CB	2:Q:90:GLY:O	2.61	0.45
4:7:6:THR:HG22	4:7:101:HIS:HA	1.97	0.45
4:W:32:PRO:HB2	4:W:34:ILE:HD11	1.98	0.45
4:W:190:MET:O	4:W:194:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:366:GLY:O	4:Y:369:ILE:HG22	2.16	0.45
1:A:17:LEU:HD12	1:A:17:LEU:HA	1.68	0.45
1:A:186:THR:O	1:A:190:MLY:HG2	2.17	0.45
1:A:195:TYR:CE2	1:A:199:ILE:HD12	2.52	0.45
1:A:226:ASN:N	1:A:227:PRO:HD2	2.32	0.45
2:B:112:ILE:O	2:B:148:VAL:HA	2.16	0.45
1:D:14:ALA:N	1:D:15:PRO:HD2	2.32	0.45
1:D:103:LEU:HD22	1:D:692:LEU:HG	1.98	0.45
1:D:195:TYR:CE2	1:D:199:ILE:HD12	2.52	0.45
1:D:335:ASP:OD1	1:D:348:MLY:NZ	2.49	0.45
1:D:768:MLY:O	1:D:771:LEU:HA	2.16	0.45
1:G:692:LEU:HD23	1:G:692:LEU:HA	1.84	0.45
1:G:795:ARG:NH2	3:I:116:GLU:CB	2.79	0.45
1:G:820:VAL:CG1	2:H:136:MET:HE1	2.47	0.45
2:H:137:TRP:CZ3	2:H:145:ALA:N	2.81	0.45
2:H:140:PHE:HA	2:H:141:PRO:HD2	1.57	0.45
3:I:69:LEU:HB3	3:I:70:PRO:HD3	1.99	0.45
1:J:84:MLY:HH22	1:J:719:ASP:O	2.17	0.45
1:J:464:ILE:CG2	1:J:465:ALA:N	2.79	0.45
1:J:640:LYS:C	4:W:23:GLY:C	2.74	0.45
1:J:725:ARG:HH21	1:J:733:PRO:HB2	1.82	0.45
1:M:144:ARG:HA	1:M:144:ARG:HD2	1.78	0.45
1:M:664:LEU:HD12	1:M:664:LEU:HA	1.52	0.45
1:M:667:THR:O	1:M:669:PRO:HD3	2.16	0.45
1:M:725:ARG:HH21	1:M:733:PRO:HB2	1.81	0.45
1:P:186:THR:O	1:P:190:MLY:HG2	2.17	0.45
1:P:202:SER:HA	1:P:207:LYS:NZ	2.22	0.45
1:P:643:GLY:CA	4:1:24:ASP:OD1	2.61	0.45
2:Q:144:VAL:HG12	2:Q:153:ILE:HD13	1.92	0.45
4:2:32:PRO:HB2	4:2:34:ILE:HD11	1.98	0.45
4:3:190:MET:O	4:3:194:THR:HG23	2.16	0.45
4:3:287:ILE:HG13	4:5:202:THR:HG22	1.89	0.45
4:6:223:PHE:CD2	4:6:259:GLU:HG3	2.51	0.45
4:Y:32:PRO:HB2	4:Y:34:ILE:HD11	1.98	0.45
4:Y:253:GLU:HA	4:Y:256:ARG:CG	2.42	0.45
1:A:597:GLU:O	1:A:600:MLY:N	2.50	0.45
1:A:732:ILE:H	1:A:733:PRO:HD2	1.74	0.45
1:D:48:VAL:HA	1:D:104:TYR:OH	2.17	0.45
1:D:206:LYS:CE	1:D:217:THR:HG23	2.29	0.45
1:D:322:VAL:CG1	1:D:325:ILE:HD11	2.47	0.45
1:D:354:LEU:HA	1:D:354:LEU:HD12	1.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:675:ILE:HG23	1:D:676:ILE:N	2.32	0.45
1:D:783:LEU:N	1:D:783:LEU:CD1	2.78	0.45
1:D:800:ARG:C	3:F:149:VAL:CG2	2.78	0.45
1:G:418:THR:CG2	1:G:419:VAL:N	2.79	0.45
1:G:488:GLN:O	1:G:491:PHE:HB3	2.17	0.45
2:H:144:VAL:HG12	2:H:153:ILE:HD13	1.92	0.45
1:J:17:LEU:HA	1:J:17:LEU:HD12	1.67	0.45
1:J:24:ARG:NH1	1:J:722:GLN:HE22	2.14	0.45
1:J:107:MLY:CB	1:J:686:MET:HE2	2.40	0.45
1:J:163:TYR:O	1:J:166:MET:HB3	2.17	0.45
1:J:206:LYS:HD3	1:J:217:THR:OG1	2.16	0.45
1:J:330:GLU:O	1:J:333:ALA:HB3	2.16	0.45
1:J:732:ILE:HG21	1:J:747:LEU:CD1	0.63	0.45
1:J:797:PHE:CZ	3:L:146:ILE:CG2	2.67	0.45
1:J:829:TRP:O	1:J:832:MET:N	2.50	0.45
2:K:129:THR:HG23	2:K:132:GLU:OE1	2.17	0.45
1:M:14:ALA:N	1:M:15:PRO:HD2	2.32	0.45
1:M:322:VAL:CG1	1:M:325:ILE:HD11	2.47	0.45
1:M:488:GLN:O	1:M:491:PHE:HB3	2.16	0.45
1:M:597:GLU:O	1:M:600:MLY:N	2.50	0.45
1:M:639:GLY:H	4:Z:344:SER:HB3	1.82	0.45
1:M:640:LYS:C	4:Z:23:GLY:C	2.74	0.45
1:P:155:ILE:HG22	1:P:156:PHE:N	2.33	0.45
1:P:330:GLU:O	1:P:333:ALA:HB3	2.16	0.45
1:P:486:MLY:HH22	1:P:527:GLU:CD	2.37	0.45
4:1:167:GLU:OE1	4:3:41:GLN:C	2.53	0.45
4:1:366:GLY:O	4:1:369:ILE:HG22	2.16	0.45
4:7:366:GLY:O	4:7:369:ILE:HG22	2.16	0.45
4:9:32:PRO:HB2	4:9:34:ILE:HD11	1.98	0.45
4:V:32:PRO:HB2	4:V:34:ILE:HD11	1.98	0.45
4:W:366:GLY:O	4:W:369:ILE:HG22	2.16	0.45
4:Y:190:MET:O	4:Y:194:THR:HG23	2.16	0.45
1:A:179:GLY:O	1:A:185:LYS:HE2	2.17	0.44
1:A:295:MLY:HG3	1:A:332:MET:HE2	1.98	0.44
1:A:637:LYS:HD2	4:8:144:ALA:HB3	1.21	0.44
1:A:796:GLY:HA3	3:C:40:ASN:OD1	2.16	0.44
1:D:136:ASN:O	1:D:139:VAL:N	2.47	0.44
1:D:476:GLU:OE2	1:D:598:MLY:HH13	2.16	0.44
1:D:530:MET:CB	4:9:354:GLN:CB	2.95	0.44
1:D:711:PHE:HB3	1:D:766:PHE:HB3	1.99	0.44
1:D:725:ARG:CG	1:D:733:PRO:CA	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:129:THR:HG23	2:E:132:GLU:OE1	2.17	0.44
1:G:173:GLN:HG3	1:G:670:HIS:HD2	1.82	0.44
1:G:221:GLN:HG2	1:G:221:GLN:H	1.47	0.44
1:G:667:THR:O	1:G:669:PRO:HD3	2.16	0.44
1:G:823:PHE:CE1	2:H:160:GLY:HA2	2.51	0.44
1:J:195:TYR:CE2	1:J:199:ILE:HD12	2.52	0.44
1:J:224:SER:O	1:J:227:PRO:HD2	2.17	0.44
1:J:641:LYS:CD	1:J:647:GLN:CG	2.72	0.44
1:J:659:MLY:HD2	1:J:659:MLY:HH22	1.42	0.44
1:M:296:MLY:O	1:M:299:LEU:HB2	2.17	0.44
1:M:534:SER:HB2	4:Z:354:GLN:HE22	1.56	0.44
1:M:568:PRO:CG	1:M:578:HIS:H	2.30	0.44
1:M:723:ARG:HG3	1:M:779:ARG:HE	1.81	0.44
1:M:747:LEU:C	1:M:749:GLY:H	2.20	0.44
1:M:810:ARG:HG2	1:M:810:ARG:NH1	2.29	0.44
1:P:64:THR:HB	1:P:68:GLU:N	2.33	0.44
1:P:322:VAL:CG1	1:P:325:ILE:HD11	2.47	0.44
1:P:410:ASN:HA	4:1:334:GLU:HB3	1.28	0.44
1:P:713:SER:O	1:P:772:LEU:CD2	2.65	0.44
3:R:122:GLU:HA	3:R:125:GLU:OE1	2.18	0.44
4:9:287:ILE:CB	4:W:204:ALA:H	2.13	0.44
4:X:190:MET:O	4:X:194:THR:HG23	2.16	0.44
4:Z:223:PHE:HB3	4:Z:259:GLU:OE2	2.18	0.44
1:A:639:GLY:H	4:8:344:SER:HB3	1.82	0.44
1:A:692:LEU:O	1:A:696:ARG:HG3	2.18	0.44
1:D:55:MLY:HH23	1:D:60:VAL:HG22	1.99	0.44
1:D:448:GLN:C	1:D:450:ASP:H	2.19	0.44
1:D:519:LEU:N	1:D:519:LEU:CD1	2.77	0.44
1:D:597:GLU:O	1:D:600:MLY:N	2.50	0.44
1:G:14:ALA:N	1:G:15:PRO:HD2	2.32	0.44
1:G:97:LEU:HD12	1:G:97:LEU:HA	1.67	0.44
1:G:163:TYR:O	1:G:166:MET:HB3	2.17	0.44
1:G:296:MLY:O	1:G:299:LEU:HB2	2.17	0.44
1:G:476:GLU:OE2	1:G:598:MLY:HH13	2.16	0.44
1:G:689:GLU:HA	1:G:692:LEU:HB2	1.99	0.44
1:G:794:CYS:O	1:G:797:PHE:HB3	2.17	0.44
1:J:55:MLY:HH23	1:J:60:VAL:HG22	1.99	0.44
1:J:87:MLY:HD3	1:J:87:MLY:HH12	1.61	0.44
1:J:155:ILE:HG22	1:J:156:PHE:N	2.32	0.44
1:J:173:GLN:HG3	1:J:670:HIS:HD2	1.82	0.44
1:J:408:VAL:HG22	1:J:636:LYS:HG2	1.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:485:GLU:HA	1:J:584:TYR:HE2	1.83	0.44
1:J:675:ILE:HG23	1:J:676:ILE:N	2.32	0.44
1:J:732:ILE:CG2	1:J:747:LEU:CD1	0.65	0.44
1:M:202:SER:HA	1:M:207:LYS:NZ	2.22	0.44
1:M:226:ASN:N	1:M:227:PRO:HD2	2.32	0.44
1:M:408:VAL:HA	1:M:636:LYS:HG3	1.03	0.44
1:M:689:GLU:HA	1:M:692:LEU:HB2	2.00	0.44
1:P:30:MLY:HB3	1:P:31:PRO:HD2	1.97	0.44
1:P:37:SER:O	1:P:38:VAL:HG23	2.17	0.44
1:P:99:GLU:N	1:P:100:PRO:CD	2.80	0.44
1:P:675:ILE:HG23	1:P:676:ILE:N	2.32	0.44
4:2:223:PHE:HB3	4:2:259:GLU:OE2	2.18	0.44
4:3:6:THR:HG22	4:3:101:HIS:HA	1.98	0.44
4:4:287:ILE:CD1	4:6:203:THR:CB	2.79	0.44
4:5:223:PHE:HB3	4:5:259:GLU:OE2	2.17	0.44
4:V:223:PHE:HB3	4:V:259:GLU:OE2	2.17	0.44
4:V:290:ARG:NH1	4:X:202:THR:CG2	2.81	0.44
1:A:541:MET:HB3	4:8:345:ILE:HG22	2.00	0.44
1:A:689:GLU:HA	1:A:692:LEU:HB2	2.00	0.44
1:A:724:TYR:HD1	1:A:727:LEU:CD1	2.27	0.44
1:A:725:ARG:HH21	1:A:733:PRO:HB2	1.81	0.44
1:A:836:PHE:CE2	2:B:160:GLY:CA	3.00	0.44
1:D:224:SER:O	1:D:227:PRO:HD2	2.17	0.44
1:D:797:PHE:CD1	3:F:146:ILE:HG22	2.35	0.44
3:F:122:GLU:HA	3:F:125:GLU:OE1	2.18	0.44
1:G:37:SER:O	1:G:38:VAL:HG23	2.17	0.44
1:G:64:THR:HB	1:G:68:GLU:N	2.33	0.44
1:G:195:TYR:CE2	1:G:199:ILE:HD12	2.52	0.44
1:J:14:ALA:N	1:J:15:PRO:HD2	2.32	0.44
1:J:215:GLN:CA	1:J:340:ILE:CG2	2.62	0.44
1:J:493:HIS:O	1:J:496:PHE:HB3	2.18	0.44
1:J:629:GLU:HG2	1:J:643:GLY:C	2.35	0.44
1:J:639:GLY:H	4:W:344:SER:HB3	1.82	0.44
1:J:711:PHE:HB3	1:J:766:PHE:HB3	1.99	0.44
1:J:725:ARG:CG	1:J:733:PRO:CA	2.95	0.44
1:J:795:ARG:CZ	3:L:44:ALA:N	2.78	0.44
2:K:137:TRP:CA	2:K:145:ALA:CB	2.82	0.44
1:M:64:THR:HB	1:M:68:GLU:N	2.32	0.44
1:M:91:MET:CE	1:M:119:SER:HB2	2.47	0.44
1:M:155:ILE:HG22	1:M:156:PHE:N	2.33	0.44
1:M:508:ILE:CD1	1:M:766:PHE:CG	3.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:540:CYS:C	4:Z:349:LEU:HD21	2.36	0.44
1:M:715:VAL:HG12	1:M:720:PHE:HB2	2.00	0.44
1:M:835:PHE:O	1:M:839:MLY:N	2.49	0.44
2:N:129:THR:HG23	2:N:132:GLU:OE1	2.17	0.44
1:P:14:ALA:N	1:P:15:PRO:HD2	2.32	0.44
1:P:193:ILE:HD11	1:P:250:ILE:CD1	2.48	0.44
1:P:724:TYR:CZ	1:P:775:LEU:HD23	2.52	0.44
1:P:725:ARG:CG	1:P:733:PRO:CA	2.95	0.44
1:P:795:ARG:HG2	3:R:118:MET:HE3	1.99	0.44
4:6:32:PRO:HB2	4:6:34:ILE:HD11	1.98	0.44
4:6:223:PHE:HB3	4:6:259:GLU:OE2	2.18	0.44
4:X:32:PRO:HB2	4:X:34:ILE:HD11	1.98	0.44
4:Z:32:PRO:HB2	4:Z:34:ILE:HD11	1.98	0.44
1:A:48:VAL:HA	1:A:104:TYR:OH	2.18	0.44
1:A:123:CYS:CB	1:A:158:ILE:HD13	2.48	0.44
1:A:322:VAL:HA	1:A:323:PRO:HD3	1.87	0.44
1:A:408:VAL:HA	1:A:636:LYS:HG3	1.03	0.44
1:A:493:HIS:O	1:A:496:PHE:HB3	2.18	0.44
1:A:715:VAL:HG12	1:A:720:PHE:HB2	2.00	0.44
3:C:50:LEU:O	3:C:53:PRO:HG2	2.18	0.44
1:D:218:LEU:HA	1:D:221:GLN:HG3	1.71	0.44
1:D:486:MLY:HH22	1:D:527:GLU:CD	2.37	0.44
1:D:667:THR:O	1:D:669:PRO:HD3	2.17	0.44
1:D:725:ARG:HA	1:D:732:ILE:HG22	1.99	0.44
1:D:829:TRP:O	1:D:832:MET:N	2.50	0.44
1:G:84:MLY:CE	1:G:724:TYR:OH	2.64	0.44
1:G:123:CYS:CB	1:G:158:ILE:HD13	2.48	0.44
1:G:136:ASN:HA	1:G:137:PRO:HD3	1.49	0.44
1:G:597:GLU:O	1:G:600:MLY:N	2.50	0.44
2:H:114:LYS:CG	2:H:146:GLY:HA2	2.46	0.44
1:J:226:ASN:HB2	1:J:227:PRO:CD	2.47	0.44
1:J:295:MLY:CG	1:J:332:MET:HE1	2.47	0.44
1:J:519:LEU:N	1:J:519:LEU:CD1	2.77	0.44
1:J:578:HIS:HB3	1:J:592:ILE:CD1	2.38	0.44
1:M:99:GLU:N	1:M:100:PRO:CD	2.80	0.44
1:M:354:LEU:HD12	1:M:354:LEU:HA	1.55	0.44
1:M:725:ARG:CG	1:M:733:PRO:CA	2.95	0.44
1:P:739:ASP:CB	1:P:742:LYS:CB	2.81	0.44
4:3:32:PRO:HB2	4:3:34:ILE:HD11	1.98	0.44
4:8:223:PHE:HB3	4:8:259:GLU:OE2	2.18	0.44
1:A:14:ALA:HB3	1:A:15:PRO:CD	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:488:GLN:O	1:D:491:PHE:HB3	2.17	0.44
1:D:516:GLY:O	1:D:518:ASP:N	2.51	0.44
1:D:692:LEU:O	1:D:696:ARG:HG3	2.17	0.44
1:D:724:TYR:HD1	1:D:782:MLY:CD	2.28	0.44
1:D:725:ARG:CZ	1:D:737:PHE:CZ	3.01	0.44
1:D:797:PHE:CZ	3:F:126:LEU:HD22	2.29	0.44
1:D:835:PHE:O	1:D:839:MLY:N	2.49	0.44
1:G:179:GLY:O	1:G:185:LYS:HE2	2.17	0.44
1:G:692:LEU:O	1:G:696:ARG:HG3	2.18	0.44
1:G:707:CYS:CB	1:G:712:PRO:HA	2.41	0.44
1:G:715:VAL:HG12	1:G:720:PHE:HB2	2.00	0.44
1:J:210:GLN:C	1:J:211:SER:HG	2.15	0.44
1:J:530:MET:HA	4:W:354:GLN:CD	2.11	0.44
1:J:637:LYS:HD2	4:W:144:ALA:HB3	1.20	0.44
1:J:794:CYS:O	1:J:797:PHE:HB3	2.17	0.44
1:M:195:TYR:CE2	1:M:199:ILE:HD12	2.52	0.44
1:M:692:LEU:O	1:M:696:ARG:HG3	2.17	0.44
1:P:123:CYS:CB	1:P:158:ILE:HD13	2.48	0.44
1:P:179:GLY:O	1:P:185:LYS:HE2	2.17	0.44
1:P:195:TYR:CE2	1:P:199:ILE:HD12	2.52	0.44
1:P:411:GLU:H	4:1:333:PRO:CB	2.30	0.44
1:P:640:LYS:C	4:1:23:GLY:C	2.74	0.44
1:P:659:MLY:HH22	1:P:659:MLY:HD2	1.42	0.44
1:P:711:PHE:HB3	1:P:766:PHE:HB3	1.99	0.44
1:P:718:ALA:CB	3:R:85:GLU:HG3	2.41	0.44
1:P:797:PHE:CD1	3:R:149:VAL:CG1	3.01	0.44
3:R:62:ALA:O	3:R:63:ILE:HG13	2.14	0.44
4:1:75:ILE:HG21	4:2:197:GLY:HA2	1.98	0.44
4:1:190:MET:O	4:1:194:THR:HG23	2.16	0.44
4:9:366:GLY:O	4:9:369:ILE:HG22	2.16	0.44
1:A:224:SER:O	1:A:227:PRO:HD2	2.17	0.44
1:A:516:GLY:O	1:A:518:ASP:N	2.51	0.44
1:A:667:THR:O	1:A:669:PRO:HD3	2.17	0.44
1:A:675:ILE:HG23	1:A:676:ILE:N	2.32	0.44
1:A:799:MET:HE3	3:C:32:ASP:HB3	1.83	0.44
1:D:99:GLU:N	1:D:100:PRO:CD	2.79	0.44
1:D:155:ILE:HG22	1:D:156:PHE:N	2.33	0.44
1:D:174:SER:OG	1:D:669:PRO:HA	2.18	0.44
1:D:186:THR:O	1:D:190:MLY:HG2	2.17	0.44
1:D:530:MET:CE	4:9:354:GLN:CB	2.95	0.44
1:D:727:LEU:CD2	1:D:782:MLY:HG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:14:ALA:HB3	1:G:15:PRO:CD	2.46	0.44
1:G:28:GLN:O	1:G:723:ARG:NH2	2.51	0.44
1:G:224:SER:O	1:G:227:PRO:HD2	2.17	0.44
1:G:226:ASN:N	1:G:227:PRO:HD2	2.32	0.44
1:G:485:GLU:HA	1:G:584:TYR:HE2	1.83	0.44
3:I:119:THR:O	3:I:123:VAL:HG23	2.18	0.44
1:J:48:VAL:HA	1:J:104:TYR:OH	2.18	0.44
1:J:411:GLU:H	4:W:333:PRO:CB	2.30	0.44
1:J:708:ARG:HA	1:J:712:PRO:CG	2.47	0.44
1:J:789:ALA:HB2	3:L:81:GLN:OE1	2.17	0.44
1:J:801:VAL:HG21	3:L:126:LEU:HD23	1.95	0.44
2:K:144:VAL:HG12	2:K:153:ILE:HD13	1.92	0.44
3:L:122:GLU:HA	3:L:125:GLU:OE1	2.18	0.44
1:M:129:TYR:HD1	1:M:129:TYR:HA	1.65	0.44
1:M:411:GLU:H	4:Z:333:PRO:CB	2.30	0.44
1:M:486:MLY:HH22	1:M:527:GLU:CD	2.37	0.44
1:M:543:PRO:CD	4:Z:143:TYR:O	2.64	0.44
1:M:675:ILE:HG23	1:M:676:ILE:N	2.32	0.44
1:M:725:ARG:HA	1:M:732:ILE:HG22	1.99	0.44
1:M:783:LEU:CB	1:M:786:ILE:CG1	2.93	0.44
3:O:50:LEU:O	3:O:53:PRO:CD	2.63	0.44
3:O:50:LEU:O	3:O:53:PRO:HG2	2.18	0.44
3:O:119:THR:O	3:O:123:VAL:HG23	2.18	0.44
3:O:122:GLU:HA	3:O:125:GLU:OE1	2.18	0.44
1:P:48:VAL:HA	1:P:104:TYR:OH	2.18	0.44
1:P:87:MLY:HD3	1:P:87:MLY:HH12	1.61	0.44
1:P:91:MET:CE	1:P:119:SER:HB2	2.47	0.44
1:P:176:LEU:N	1:P:176:LEU:CD1	2.74	0.44
1:P:516:GLY:O	1:P:518:ASP:N	2.51	0.44
1:P:519:LEU:N	1:P:519:LEU:CD1	2.77	0.44
1:P:783:LEU:N	1:P:783:LEU:CD1	2.78	0.44
2:Q:129:THR:HG23	2:Q:132:GLU:OE1	2.17	0.44
4:7:32:PRO:HB2	4:7:34:ILE:HD11	1.98	0.44
4:Y:171:LEU:HA	4:Y:172:PRO:HD2	1.84	0.44
4:Z:299:MET:HE2	4:Z:331:ALA:HB2	2.00	0.44
1:A:485:GLU:HA	1:A:584:TYR:HE2	1.83	0.44
1:A:725:ARG:HA	1:A:732:ILE:HG22	1.99	0.44
1:A:827:MLY:HH21	2:B:139:ALA:HB3	2.00	0.44
3:C:119:THR:O	3:C:123:VAL:HG23	2.18	0.44
3:C:122:GLU:HA	3:C:125:GLU:OE1	2.18	0.44
1:D:123:CYS:CB	1:D:158:ILE:HD13	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:330:GLU:O	1:D:333:ALA:HB3	2.17	0.44
1:D:834:LEU:CG	2:E:54:MET:CE	2.95	0.44
1:G:637:LYS:HD2	4:V:144:ALA:HB3	1.20	0.44
1:J:529:PRO:HB3	4:W:354:GLN:HA	1.99	0.44
1:J:725:ARG:HA	1:J:732:ILE:HG22	1.99	0.44
1:M:55:MLY:HH23	1:M:60:VAL:HG22	1.99	0.44
1:M:56:GLU:HB2	1:M:59:MLY:CB	2.30	0.44
1:M:103:LEU:HD22	1:M:692:LEU:HG	1.98	0.44
1:M:123:CYS:CB	1:M:158:ILE:HD13	2.48	0.44
1:M:642:LYS:CB	4:Z:24:ASP:O	2.60	0.44
1:M:732:ILE:H	1:M:733:PRO:HD2	1.74	0.44
1:M:804:ARG:O	1:M:808:GLU:N	2.50	0.44
1:M:804:ARG:C	1:M:808:GLU:H	2.21	0.44
1:M:817:GLN:HG3	2:N:128:PHE:HE1	1.78	0.44
2:N:114:LYS:CG	2:N:146:GLY:HA2	2.46	0.44
1:P:221:GLN:HG2	1:P:221:GLN:H	1.47	0.44
1:P:541:MET:HG2	4:1:345:ILE:HG22	2.00	0.44
1:P:796:GLY:HA2	3:R:35:ARG:HD3	1.99	0.44
4:2:42:GLY:HA3	4:Z:167:GLU:CG	2.48	0.44
4:3:220:ALA:HB3	4:3:223:PHE:CD1	2.53	0.44
4:6:253:GLU:HA	4:6:256:ARG:CG	2.42	0.44
4:X:292:ASP:OD2	4:Z:244:ASP:CB	2.54	0.44
4:Y:220:ALA:HB3	4:Y:223:PHE:CD1	2.53	0.44
1:A:55:MLY:HH23	1:A:60:VAL:HG22	1.99	0.44
1:A:174:SER:OG	1:A:669:PRO:HA	2.18	0.44
1:A:214:MET:CA	1:A:340:ILE:HD11	2.46	0.44
1:A:292:MET:HE1	1:A:309:PRO:HD3	1.99	0.44
1:D:292:MET:HE1	1:D:309:PRO:CG	2.48	0.44
1:D:408:VAL:HG22	1:D:636:LYS:HG2	1.52	0.44
1:D:747:LEU:C	1:D:749:GLY:H	2.21	0.44
1:D:793:ARG:O	1:D:797:PHE:N	2.39	0.44
1:G:55:MLY:HH23	1:G:60:VAL:HG22	1.99	0.44
1:G:103:LEU:HD22	1:G:692:LEU:HG	1.98	0.44
1:G:155:ILE:HG22	1:G:156:PHE:N	2.33	0.44
1:G:186:THR:O	1:G:190:MLY:HG2	2.17	0.44
1:G:493:HIS:O	1:G:496:PHE:HB3	2.18	0.44
1:G:762:HIS:CD2	1:G:762:HIS:N	2.78	0.44
1:G:787:ILE:HG23	1:G:791:GLN:HG3	2.00	0.44
1:G:795:ARG:CZ	3:I:116:GLU:CB	2.84	0.44
2:H:129:THR:HG23	2:H:132:GLU:OE1	2.17	0.44
1:J:226:ASN:N	1:J:227:PRO:HD2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:348:MLY:HH12	1:J:348:MLY:HD2	1.81	0.44
1:J:725:ARG:CG	1:J:733:PRO:HA	2.43	0.44
1:J:776:GLU:O	1:J:780:ASP:N	2.45	0.44
1:J:796:GLY:HA2	3:L:35:ARG:HG2	1.99	0.44
2:K:112:ILE:O	2:K:148:VAL:N	2.50	0.44
3:L:62:ALA:O	3:L:63:ILE:CB	2.63	0.44
1:M:48:VAL:HA	1:M:104:TYR:OH	2.18	0.44
1:M:163:TYR:O	1:M:166:MET:HB3	2.17	0.44
1:M:476:GLU:CD	1:M:476:GLU:H	2.22	0.44
1:M:516:GLY:O	1:M:518:ASP:N	2.51	0.44
3:O:69:LEU:HB3	3:O:70:PRO:HD3	1.99	0.44
1:P:214:MET:CA	1:P:340:ILE:HD11	2.45	0.44
1:P:332:MET:H	1:P:332:MET:HG2	1.51	0.44
1:P:332:MET:O	1:P:336:SER:OG	2.27	0.44
1:P:797:PHE:CE2	3:R:126:LEU:CD2	2.92	0.44
1:P:829:TRP:HA	1:P:830:PRO:HD2	1.86	0.44
4:2:322:PRO:HB2	4:4:244:ASP:CB	2.26	0.44
4:2:322:PRO:CA	4:4:244:ASP:HB2	2.47	0.44
4:6:193:LEU:O	4:6:198:TYR:HD2	2.01	0.44
4:7:223:PHE:HB3	4:7:259:GLU:OE2	2.18	0.44
4:8:32:PRO:HB2	4:8:34:ILE:HD11	1.98	0.44
4:9:220:ALA:HB3	4:9:223:PHE:CD1	2.53	0.44
4:W:220:ALA:HB3	4:W:223:PHE:CD1	2.53	0.44
1:A:221:GLN:HG2	1:A:221:GLN:H	1.47	0.44
1:A:711:PHE:HB3	1:A:766:PHE:HB3	1.99	0.44
1:A:836:PHE:CD2	2:B:161:GLU:HG2	2.52	0.44
2:B:129:THR:HG23	2:B:132:GLU:OE1	2.18	0.44
1:D:63:MLY:HH23	1:D:63:MLY:HD3	1.76	0.44
1:D:97:LEU:HA	1:D:97:LEU:HD12	1.67	0.44
1:D:296:MLY:O	1:D:299:LEU:HB2	2.17	0.44
1:D:549:SER:C	4:W:45:VAL:O	2.56	0.44
1:D:747:LEU:C	1:D:749:GLY:N	2.71	0.44
3:F:50:LEU:O	3:F:53:PRO:HG2	2.18	0.44
1:G:496:PHE:HB2	1:G:515:PHE:CD2	2.53	0.44
1:G:747:LEU:C	1:G:749:GLY:N	2.71	0.44
1:J:174:SER:OG	1:J:669:PRO:HA	2.18	0.44
1:J:541:MET:HG2	4:W:345:ILE:HG22	2.00	0.44
1:J:554:LEU:HD12	1:J:554:LEU:HA	1.76	0.44
1:J:597:GLU:O	1:J:600:MLY:N	2.50	0.44
1:J:798:LEU:CD2	3:L:118:MET:SD	3.06	0.44
1:M:139:VAL:HG12	1:M:143:TYR:HD2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:174:SER:OG	1:M:669:PRO:HA	2.18	0.44
1:M:485:GLU:OE1	1:M:583:HIS:ND1	2.49	0.44
3:O:101:THR:HA	3:O:137:ILE:O	2.18	0.44
1:P:226:ASN:N	1:P:227:PRO:HD2	2.32	0.44
1:P:643:GLY:N	4:1:23:GLY:C	2.55	0.44
1:P:664:LEU:HD12	1:P:664:LEU:HA	1.52	0.44
4:1:173:HIS:CB	4:2:267:ILE:HA	2.48	0.44
4:4:287:ILE:HG22	4:6:204:ALA:H	1.74	0.44
4:X:291:LYS:HB3	4:Z:246:GLN:CA	2.47	0.44
4:Z:205:GLU:O	4:Z:208:ILE:HG22	2.18	0.44
1:A:215:GLN:H	1:A:340:ILE:CD1	2.21	0.43
1:A:485:GLU:OE2	1:A:584:TYR:N	2.50	0.43
1:A:496:PHE:HB2	1:A:515:PHE:CD2	2.53	0.43
1:A:801:VAL:CA	3:C:149:VAL:HG21	2.48	0.43
1:D:226:ASN:N	1:D:227:PRO:HD2	2.32	0.43
1:D:322:VAL:CG1	1:D:325:ILE:HG13	2.48	0.43
1:D:400:ALA:CB	1:D:606:THR:HG22	2.48	0.43
1:D:541:MET:HB3	4:9:345:ILE:HG22	2.00	0.43
1:D:568:PRO:CG	1:D:578:HIS:H	2.30	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HD11	2.47	0.43
1:G:753:VAL:O	1:G:779:ARG:HD3	2.12	0.43
1:J:568:PRO:CG	1:J:578:HIS:H	2.30	0.43
1:M:206:LYS:CE	1:M:217:THR:HG23	2.29	0.43
1:M:732:ILE:HG23	1:M:747:LEU:HD12	0.95	0.43
1:M:747:LEU:C	1:M:749:GLY:N	2.71	0.43
1:M:806:MET:O	1:M:809:ARG:HB2	2.18	0.43
1:P:174:SER:OG	1:P:669:PRO:HA	2.18	0.43
1:P:529:PRO:HB3	4:1:354:GLN:HA	2.00	0.43
1:P:597:GLU:O	1:P:600:MLY:N	2.50	0.43
1:P:612:GLN:NE2	1:P:627:GLY:H	2.14	0.43
1:P:829:TRP:O	1:P:832:MET:N	2.50	0.43
4:1:220:ALA:HB3	4:1:223:PHE:CD1	2.53	0.43
4:4:149:THR:HA	4:4:165:ILE:O	2.18	0.43
4:4:205:GLU:O	4:4:208:ILE:HG22	2.18	0.43
4:4:223:PHE:HB3	4:4:259:GLU:OE2	2.18	0.43
4:8:324:THR:O	4:V:244:ASP:HA	2.08	0.43
4:9:223:PHE:HB3	4:9:259:GLU:OE2	2.18	0.43
4:V:205:GLU:O	4:V:208:ILE:HG22	2.18	0.43
4:Z:220:ALA:HB3	4:Z:223:PHE:CD1	2.53	0.43
1:A:37:SER:O	1:A:38:VAL:HG23	2.17	0.43
1:D:64:THR:HB	1:D:68:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:109:ARG:CD	1:D:117:THR:HB	2.49	0.43
1:D:295:MLY:HG3	1:D:332:MET:HE2	1.97	0.43
1:D:625:THR:H	1:D:625:THR:HG22	1.48	0.43
1:D:795:ARG:NE	3:F:116:GLU:HB3	2.28	0.43
1:G:193:ILE:HD11	1:G:250:ILE:CD1	2.48	0.43
1:G:246:PHE:HB3	1:G:270:LEU:HD12	2.01	0.43
1:G:541:MET:CE	4:V:346:LEU:HD12	2.48	0.43
1:G:707:CYS:C	1:G:712:PRO:HA	2.39	0.43
1:G:725:ARG:CZ	1:G:737:PHE:CZ	3.01	0.43
1:G:732:ILE:CG2	1:G:747:LEU:CD1	0.65	0.43
1:G:732:ILE:CG2	1:G:747:LEU:HD12	0.35	0.43
1:G:797:PHE:HE1	3:I:146:ILE:HA	1.82	0.43
1:J:14:ALA:N	1:J:15:PRO:CD	2.82	0.43
1:J:123:CYS:CB	1:J:158:ILE:HD13	2.48	0.43
1:J:193:ILE:HD11	1:J:250:ILE:CD1	2.47	0.43
1:J:229:LEU:HD12	1:J:229:LEU:HA	1.75	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HD11	2.47	0.43
1:J:346:ASP:O	1:J:350:ALA:N	2.46	0.43
1:J:516:GLY:O	1:J:518:ASP:N	2.51	0.43
1:J:556:ASP:HB3	4:Y:47:MET:HB2	1.00	0.43
2:K:149:ASP:CG	2:K:150:TYR:N	2.49	0.43
1:M:64:THR:CG2	1:M:65:GLU:H	2.31	0.43
1:M:193:ILE:HD11	1:M:250:ILE:CD1	2.47	0.43
1:M:391:GLY:HA3	1:M:616:VAL:HG23	2.01	0.43
1:M:439:LEU:N	1:M:439:LEU:CD1	2.81	0.43
1:M:496:PHE:HB2	1:M:515:PHE:CD2	2.53	0.43
1:M:541:MET:HB3	4:Z:345:ILE:HG22	2.00	0.43
1:M:787:ILE:HG23	1:M:791:GLN:HG3	2.00	0.43
1:M:829:TRP:HA	1:M:830:PRO:HD2	1.86	0.43
1:P:173:GLN:HG3	1:P:670:HIS:HD2	1.82	0.43
1:P:439:LEU:N	1:P:439:LEU:CD1	2.81	0.43
1:P:493:HIS:O	1:P:496:PHE:HB3	2.18	0.43
1:P:496:PHE:HB2	1:P:515:PHE:CD2	2.53	0.43
1:P:692:LEU:O	1:P:696:ARG:HG3	2.18	0.43
3:R:119:THR:O	3:R:123:VAL:HG23	2.18	0.43
4:1:223:PHE:HB3	4:1:259:GLU:OE2	2.18	0.43
4:1:245:GLY:H	4:Y:291:LYS:HB2	1.82	0.43
4:3:193:LEU:O	4:3:198:TYR:HD2	2.01	0.43
4:4:193:LEU:O	4:4:198:TYR:HD2	2.01	0.43
4:6:149:THR:HA	4:6:165:ILE:O	2.19	0.43
4:6:220:ALA:HB3	4:6:223:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:220:ALA:HB3	4:7:223:PHE:CD1	2.53	0.43
4:X:205:GLU:O	4:X:208:ILE:HG22	2.18	0.43
1:A:14:ALA:N	1:A:15:PRO:CD	2.81	0.43
1:A:64:THR:CG2	1:A:65:GLU:H	2.32	0.43
1:A:64:THR:HB	1:A:68:GLU:N	2.33	0.43
1:A:246:PHE:HB3	1:A:270:LEU:HD12	2.00	0.43
1:A:322:VAL:CG1	1:A:325:ILE:HG13	2.49	0.43
1:A:642:LYS:HB2	4:8:24:ASP:O	1.88	0.43
1:A:747:LEU:C	1:A:749:GLY:H	2.21	0.43
1:A:768:MLY:CB	1:A:771:LEU:HD13	2.47	0.43
1:A:813:ILE:CG2	2:B:127:ARG:HB2	2.48	0.43
1:A:823:PHE:HD1	2:B:160:GLY:CA	2.25	0.43
1:D:91:MET:CE	1:D:119:SER:HB2	2.47	0.43
1:D:193:ILE:HD11	1:D:250:ILE:CD1	2.48	0.43
1:D:201:ALA:O	1:D:202:SER:OG	2.36	0.43
1:D:391:GLY:HA3	1:D:616:VAL:HG23	2.00	0.43
1:D:485:GLU:HA	1:D:584:TYR:HE2	1.83	0.43
1:D:727:LEU:HD21	1:D:782:MLY:HG2	2.00	0.43
1:D:732:ILE:CG2	1:D:747:LEU:CD1	0.65	0.43
2:E:137:TRP:CZ3	2:E:145:ALA:N	2.81	0.43
1:G:40:VAL:HG23	1:G:76:GLN:O	2.19	0.43
1:G:516:GLY:O	1:G:518:ASP:N	2.51	0.43
1:G:541:MET:HB3	4:V:345:ILE:HG22	2.01	0.43
1:G:599:ASN:CG	1:G:649:VAL:CB	2.80	0.43
2:H:117:LEU:CG	2:H:147:ASN:OD1	2.52	0.43
1:J:86:ASP:OD2	1:J:87:MLY:HH22	2.18	0.43
1:J:541:MET:HB3	4:W:345:ILE:HG22	2.00	0.43
1:M:246:PHE:HB3	1:M:270:LEU:HD12	2.00	0.43
1:M:493:HIS:O	1:M:496:PHE:HB3	2.18	0.43
1:P:40:VAL:HG23	1:P:76:GLN:O	2.19	0.43
1:P:86:ASP:OD2	1:P:87:MLY:HH22	2.18	0.43
1:P:224:SER:O	1:P:227:PRO:HD2	2.17	0.43
1:P:295:MLY:CE	1:P:332:MET:CE	2.97	0.43
1:P:309:PRO:C	1:P:311:ASP:H	2.22	0.43
1:P:536:LEU:HD12	1:P:536:LEU:HA	1.69	0.43
1:P:568:PRO:CG	1:P:578:HIS:H	2.30	0.43
1:P:692:LEU:HD23	1:P:692:LEU:HA	1.85	0.43
1:P:789:ALA:HB2	3:R:81:GLN:HG3	1.97	0.43
1:P:791:GLN:HE22	3:R:115:GLY:HA3	1.83	0.43
3:R:69:LEU:HB3	3:R:70:PRO:HD3	1.99	0.43
4:2:193:LEU:O	4:2:198:TYR:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:7:171:LEU:HA	4:7:172:PRO:HD2	1.84	0.43
4:8:205:GLU:O	4:8:208:ILE:HG22	2.18	0.43
4:V:149:THR:HA	4:V:165:ILE:O	2.19	0.43
4:V:193:LEU:O	4:V:198:TYR:HD2	2.01	0.43
4:X:223:PHE:HB3	4:X:259:GLU:OE2	2.18	0.43
4:X:288:ASP:OD1	4:Z:242:LEU:HD21	2.18	0.43
4:Z:149:THR:HA	4:Z:165:ILE:O	2.19	0.43
1:A:93:MET:HE2	1:A:715:VAL:CB	2.34	0.43
1:A:109:ARG:CD	1:A:117:THR:HB	2.48	0.43
1:A:292:MET:CE	1:A:309:PRO:CA	2.97	0.43
1:A:391:GLY:HA3	1:A:616:VAL:HG23	2.00	0.43
1:A:443:ILE:HG22	1:A:444:ARG:N	2.29	0.43
1:A:485:GLU:OE1	1:A:583:HIS:ND1	2.49	0.43
1:A:754:ASP:H	1:A:775:LEU:HD11	1.83	0.43
1:D:151:ALA:HB1	1:D:152:PRO:HD2	2.01	0.43
1:D:163:TYR:O	1:D:166:MET:HB3	2.17	0.43
1:D:295:MLY:CE	1:D:332:MET:CE	2.97	0.43
1:D:309:PRO:C	1:D:311:ASP:H	2.22	0.43
1:D:541:MET:HG2	4:9:345:ILE:HG22	2.00	0.43
1:D:659:MLY:HD2	1:D:659:MLY:HH22	1.42	0.43
1:D:798:LEU:HD12	1:D:798:LEU:HA	1.36	0.43
1:G:48:VAL:HA	1:G:104:TYR:OH	2.18	0.43
1:G:217:THR:HG22	1:G:218:LEU:N	2.34	0.43
1:G:266:GLU:OE1	1:G:659:MLY:NZ	2.51	0.43
1:G:322:VAL:CG1	1:G:325:ILE:HG13	2.48	0.43
1:G:540:CYS:C	4:V:349:LEU:HD21	2.36	0.43
1:G:725:ARG:CZ	1:G:737:PHE:CE1	3.02	0.43
3:I:101:THR:HA	3:I:137:ILE:O	2.18	0.43
1:J:144:ARG:HA	1:J:144:ARG:HD2	1.78	0.43
1:J:217:THR:HG22	1:J:218:LEU:N	2.34	0.43
1:J:391:GLY:HA3	1:J:616:VAL:HG23	2.00	0.43
1:J:439:LEU:N	1:J:439:LEU:CD1	2.81	0.43
1:J:544:LYS:HD2	4:W:147:ARG:CB	2.36	0.43
1:J:692:LEU:O	1:J:696:ARG:HG3	2.18	0.43
1:J:712:PRO:HB2	1:J:713:SER:H	1.61	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CZ	3.01	0.43
1:J:787:ILE:HG23	1:J:791:GLN:HG3	2.00	0.43
1:J:789:ALA:HB1	3:L:81:GLN:HG2	1.97	0.43
1:J:793:ARG:NH1	3:L:40:ASN:ND2	2.62	0.43
1:M:14:ALA:N	1:M:15:PRO:CD	2.82	0.43
1:M:217:THR:HG22	1:M:218:LEU:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:529:PRO:HB3	4:Z:354:GLN:HA	2.00	0.43
1:M:537:GLU:OE1	4:Z:350:SER:HA	2.19	0.43
1:M:541:MET:HG2	4:Z:345:ILE:HG22	2.00	0.43
1:M:725:ARG:CZ	1:M:737:PHE:CZ	3.01	0.43
1:M:725:ARG:CZ	1:M:737:PHE:CE1	3.02	0.43
1:M:821:ARG:HH22	2:N:127:ARG:NE	2.15	0.43
1:P:107:MLY:CB	1:P:686:MET:HE2	2.40	0.43
1:P:175:ILE:C	1:P:176:LEU:HD12	2.38	0.43
1:P:391:GLY:HA3	1:P:616:VAL:HG23	2.00	0.43
1:P:639:GLY:H	4:1:344:SER:HB3	1.83	0.43
1:P:722:GLN:CB	3:R:85:GLU:OE2	2.66	0.43
1:P:839:MLY:HH13	2:Q:159:HIS:HD2	1.84	0.43
4:2:205:GLU:O	4:2:208:ILE:HG22	2.18	0.43
4:4:315:LYS:HD2	4:4:315:LYS:HA	1.92	0.43
4:5:149:THR:HA	4:5:165:ILE:O	2.19	0.43
4:5:220:ALA:HB3	4:5:223:PHE:CD1	2.53	0.43
4:7:193:LEU:O	4:7:198:TYR:HD2	2.01	0.43
4:W:193:LEU:O	4:W:198:TYR:HD2	2.01	0.43
4:X:220:ALA:HB3	4:X:223:PHE:CD1	2.53	0.43
1:A:166:MET:CE	1:A:254:PHE:CD2	3.01	0.43
1:A:193:ILE:HD11	1:A:250:ILE:CD1	2.48	0.43
1:A:204:GLU:N	1:A:207:LYS:HE3	2.23	0.43
1:A:442:VAL:O	1:A:445:ILE:HB	2.19	0.43
1:A:505:MLY:HD2	1:A:741:LYS:HZ2	1.83	0.43
1:A:795:ARG:CG	3:C:118:MET:HE1	2.47	0.43
2:B:54:MET:CB	2:H:21:GLU:OE1	2.64	0.43
3:C:101:THR:HA	3:C:137:ILE:O	2.18	0.43
1:D:175:ILE:C	1:D:176:LEU:HD12	2.38	0.43
1:D:292:MET:CE	1:D:309:PRO:CA	2.97	0.43
1:D:639:GLY:H	4:9:344:SER:HB3	1.83	0.43
1:D:712:PRO:CB	1:D:771:LEU:CB	2.97	0.43
1:D:725:ARG:CZ	1:D:737:PHE:CE1	3.02	0.43
3:F:48:LYS:HD3	3:F:48:LYS:HA	1.18	0.43
1:G:64:THR:CG2	1:G:65:GLU:H	2.32	0.43
1:G:391:GLY:HA3	1:G:616:VAL:HG23	2.00	0.43
1:G:612:GLN:NE2	1:G:627:GLY:H	2.14	0.43
1:G:711:PHE:HB3	1:G:766:PHE:HB3	1.99	0.43
1:G:838:ILE:CG1	2:H:54:MET:HE3	2.39	0.43
1:J:64:THR:CG2	1:J:65:GLU:H	2.31	0.43
1:J:215:GLN:H	1:J:340:ILE:CD1	2.20	0.43
1:J:292:MET:CE	1:J:309:PRO:CA	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:505:MLY:HG3	1:J:762:HIS:NE2	2.31	0.43
3:L:69:LEU:HB3	3:L:70:PRO:HD3	1.99	0.43
1:M:322:VAL:CG1	1:M:325:ILE:HG13	2.49	0.43
1:M:443:ILE:HG22	1:M:444:ARG:N	2.29	0.43
1:M:502:GLU:CG	1:M:766:PHE:HZ	2.31	0.43
1:M:530:MET:CE	4:Z:354:GLN:HG3	2.35	0.43
1:M:795:ARG:C	3:O:35:ARG:NH2	2.72	0.43
1:M:797:PHE:CG	3:O:146:ILE:CG2	2.93	0.43
2:N:140:PHE:HA	2:N:141:PRO:HD2	1.56	0.43
3:O:52:ASN:CB	3:O:53:PRO:CD	2.92	0.43
1:P:109:ARG:CD	1:P:117:THR:HB	2.49	0.43
1:P:129:TYR:HD1	1:P:129:TYR:HA	1.65	0.43
1:P:787:ILE:HG23	1:P:791:GLN:HG3	2.00	0.43
4:4:287:ILE:HB	4:6:204:ALA:H	1.83	0.43
4:5:193:LEU:O	4:5:198:TYR:HD2	2.01	0.43
4:8:149:THR:HA	4:8:165:ILE:O	2.19	0.43
4:9:193:LEU:O	4:9:198:TYR:HD2	2.01	0.43
4:V:220:ALA:HB3	4:V:223:PHE:CD1	2.53	0.43
1:A:530:MET:CB	4:8:354:GLN:CB	2.95	0.43
1:A:549:SER:C	4:V:45:VAL:O	2.56	0.43
1:A:725:ARG:CG	1:A:733:PRO:CA	2.95	0.43
1:D:217:THR:HG22	1:D:218:LEU:N	2.33	0.43
1:D:266:GLU:OE1	1:D:659:MLY:NZ	2.51	0.43
1:D:278:GLN:HE21	1:D:278:GLN:HB3	1.42	0.43
1:D:534:SER:CB	4:9:351:THR:HA	2.49	0.43
1:D:787:ILE:HG23	1:D:791:GLN:HG3	2.00	0.43
1:G:292:MET:CE	1:G:309:PRO:CA	2.97	0.43
1:G:442:VAL:O	1:G:445:ILE:HB	2.19	0.43
1:G:829:TRP:HZ3	2:H:84:PHE:CE2	2.31	0.43
1:J:40:VAL:HG23	1:J:76:GLN:O	2.19	0.43
1:J:64:THR:HB	1:J:68:GLU:N	2.33	0.43
1:J:109:ARG:CD	1:J:117:THR:HB	2.49	0.43
1:J:175:ILE:C	1:J:176:LEU:HD12	2.38	0.43
1:J:202:SER:HA	1:J:207:LYS:NZ	2.22	0.43
1:J:309:PRO:C	1:J:311:ASP:H	2.22	0.43
1:J:320:ILE:O	1:J:320:ILE:HG22	2.18	0.43
1:J:701:LEU:HD12	1:J:701:LEU:HA	1.55	0.43
1:J:710:GLY:O	1:J:772:LEU:CB	2.66	0.43
1:M:123:CYS:HB2	1:M:158:ILE:HD13	2.00	0.43
1:M:201:ALA:O	1:M:202:SER:OG	2.36	0.43
1:M:266:GLU:OE1	1:M:659:MLY:NZ	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:322:VAL:HA	1:M:323:PRO:HD3	1.87	0.43
1:M:400:ALA:CB	1:M:606:THR:HG22	2.49	0.43
2:N:112:ILE:O	2:N:148:VAL:N	2.50	0.43
1:P:151:ALA:HB1	1:P:152:PRO:HD2	2.01	0.43
1:P:292:MET:CE	1:P:309:PRO:CA	2.97	0.43
1:P:476:GLU:CD	1:P:476:GLU:H	2.21	0.43
1:P:797:PHE:CG	3:R:146:ILE:CG2	2.93	0.43
3:R:101:THR:HA	3:R:137:ILE:O	2.18	0.43
4:6:205:GLU:O	4:6:208:ILE:HG22	2.18	0.43
4:V:253:GLU:HA	4:V:256:ARG:CG	2.42	0.43
4:W:223:PHE:HB3	4:W:259:GLU:OE2	2.18	0.43
4:X:171:LEU:HA	4:X:172:PRO:HD2	1.84	0.43
4:Y:193:LEU:O	4:Y:198:TYR:HD2	2.01	0.43
1:A:218:LEU:HA	1:A:221:GLN:HG3	1.71	0.43
1:A:266:GLU:OE1	1:A:659:MLY:NZ	2.51	0.43
1:A:295:MLY:CE	1:A:332:MET:CE	2.96	0.43
1:A:486:MLY:HH22	1:A:527:GLU:CD	2.37	0.43
1:A:787:ILE:HG23	1:A:791:GLN:HG3	2.00	0.43
1:A:813:ILE:CG2	2:B:128:PHE:CE1	3.00	0.43
1:D:14:ALA:N	1:D:15:PRO:CD	2.81	0.43
1:D:40:VAL:HG23	1:D:76:GLN:O	2.19	0.43
1:D:64:THR:CG2	1:D:65:GLU:H	2.32	0.43
1:D:194:GLN:HE21	1:D:194:GLN:HB3	1.43	0.43
1:D:439:LEU:N	1:D:439:LEU:CD1	2.81	0.43
1:D:493:HIS:O	1:D:496:PHE:HB3	2.18	0.43
1:D:689:GLU:HA	1:D:692:LEU:HB2	1.99	0.43
1:D:793:ARG:NH2	3:F:147:MET:HE1	2.34	0.43
2:E:162:ASP:O	2:K:21:GLU:HB3	2.15	0.43
3:F:119:THR:O	3:F:123:VAL:HG23	2.18	0.43
1:G:166:MET:CE	1:G:254:PHE:CD2	3.01	0.43
1:G:818:TYR:C	2:H:90:GLY:HA3	2.39	0.43
1:J:246:PHE:HB3	1:J:270:LEU:HD12	2.00	0.43
1:J:295:MLY:HG3	1:J:332:MET:HE2	1.99	0.43
1:J:295:MLY:CE	1:J:332:MET:CE	2.97	0.43
1:J:476:GLU:CD	1:J:476:GLU:H	2.22	0.43
1:J:642:LYS:HB2	4:W:24:ASP:O	1.88	0.43
1:J:783:LEU:HA	1:J:786:ILE:HB	2.00	0.43
1:J:793:ARG:HG2	3:L:87:PHE:CZ	2.54	0.43
3:L:101:THR:HA	3:L:137:ILE:O	2.18	0.43
1:M:292:MET:CE	1:M:309:PRO:CA	2.97	0.43
1:M:409:GLY:N	1:M:636:LYS:CD	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:442:VAL:O	1:M:445:ILE:HB	2.19	0.43
1:M:485:GLU:OE2	1:M:584:TYR:N	2.50	0.43
1:M:541:MET:CE	4:Z:346:LEU:HD12	2.47	0.43
1:M:769:ALA:C	1:M:771:LEU:N	2.71	0.43
1:P:217:THR:HG22	1:P:218:LEU:N	2.34	0.43
1:P:246:PHE:HB3	1:P:270:LEU:HD12	2.00	0.43
1:P:266:GLU:OE1	1:P:659:MLY:NZ	2.51	0.43
1:P:322:VAL:CG1	1:P:325:ILE:HG13	2.49	0.43
1:P:408:VAL:HG22	1:P:636:LYS:HG2	1.52	0.43
1:P:530:MET:CE	4:1:354:GLN:CB	2.95	0.43
1:P:689:GLU:HA	1:P:692:LEU:HB2	2.00	0.43
1:P:715:VAL:HG12	1:P:720:PHE:HB2	2.00	0.43
4:7:149:THR:HA	4:7:165:ILE:O	2.19	0.43
4:8:220:ALA:HB3	4:8:223:PHE:CD1	2.53	0.43
4:X:149:THR:HA	4:X:165:ILE:O	2.19	0.43
4:X:288:ASP:HA	4:Z:242:LEU:CD2	2.43	0.43
4:Z:193:LEU:O	4:Z:198:TYR:HD2	2.01	0.43
1:A:829:TRP:O	1:A:832:MET:N	2.50	0.43
1:D:86:ASP:OD2	1:D:87:MLY:HH22	2.19	0.43
1:D:202:SER:HA	1:D:207:LYS:NZ	2.22	0.43
1:D:348:MLY:HH12	1:D:348:MLY:HD2	1.81	0.43
1:D:476:GLU:H	1:D:476:GLU:CD	2.21	0.43
1:D:529:PRO:HB3	4:9:354:GLN:HA	2.00	0.43
1:D:578:HIS:HB3	1:D:592:ILE:CD1	2.38	0.43
3:F:101:THR:HA	3:F:137:ILE:O	2.18	0.43
1:G:14:ALA:N	1:G:15:PRO:CD	2.81	0.43
1:G:22:LYS:O	1:G:26:GLU:N	2.29	0.43
1:G:195:TYR:CD2	1:G:199:ILE:HD13	2.54	0.43
1:G:400:ALA:CB	1:G:606:THR:HG22	2.49	0.43
1:G:725:ARG:HA	1:G:732:ILE:HG22	1.99	0.43
1:G:819:ASN:HD21	2:H:92:ASP:CA	2.31	0.43
1:G:834:LEU:CD1	2:H:51:PHE:CD1	3.00	0.43
1:J:151:ALA:HB1	1:J:152:PRO:HD2	2.01	0.43
1:J:201:ALA:O	1:J:202:SER:OG	2.36	0.43
1:J:534:SER:CB	4:W:351:THR:HA	2.49	0.43
1:J:567:LYS:HZ1	4:Y:92:ASN:ND2	2.08	0.43
1:J:689:GLU:HA	1:J:692:LEU:HB2	2.00	0.43
1:J:715:VAL:HG11	1:J:720:PHE:CD1	2.49	0.43
1:J:715:VAL:HG12	1:J:720:PHE:HB2	2.00	0.43
1:J:817:GLN:CB	2:K:127:ARG:HD3	2.26	0.43
1:J:829:TRP:HZ2	2:K:83:MET:CE	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:530:MET:CB	4:Z:354:GLN:CB	2.95	0.43
1:M:711:PHE:HB3	1:M:766:PHE:HB3	1.99	0.43
1:M:723:ARG:HH12	1:M:783:LEU:HD21	1.84	0.43
1:M:793:ARG:NH1	3:O:40:ASN:ND2	2.65	0.43
1:M:829:TRP:CE2	2:N:87:LYS:CE	2.96	0.43
1:P:64:THR:CG2	1:P:65:GLU:H	2.31	0.43
1:P:206:LYS:CE	1:P:217:THR:HG23	2.30	0.43
1:P:715:VAL:HG11	1:P:720:PHE:CD1	2.49	0.43
1:P:725:ARG:CZ	1:P:737:PHE:CZ	3.01	0.43
1:P:747:LEU:C	1:P:749:GLY:N	2.71	0.43
2:Q:137:TRP:CZ3	2:Q:145:ALA:N	2.81	0.43
4:8:193:LEU:O	4:8:198:TYR:HD2	2.01	0.43
1:A:62:VAL:O	1:A:69:THR:HA	2.19	0.43
1:A:320:ILE:O	1:A:320:ILE:HG22	2.18	0.43
1:A:409:GLY:N	1:A:636:LYS:CD	2.70	0.43
1:A:445:ILE:HG22	1:A:449:LEU:HD22	2.01	0.43
1:A:476:GLU:H	1:A:476:GLU:CD	2.21	0.43
1:A:505:MLY:HD2	1:A:741:LYS:NZ	2.33	0.43
1:A:529:PRO:HB3	4:8:354:GLN:HA	2.00	0.43
1:A:541:MET:CE	4:8:346:LEU:HD12	2.48	0.43
1:A:551:MLY:C	4:V:47:MET:HA	2.47	0.43
1:A:642:LYS:HB3	4:8:24:ASP:HB2	1.37	0.43
1:A:707:CYS:SG	1:A:714:ARG:HD2	2.59	0.43
1:D:296:MLY:HH11	1:D:348:MLY:CH2	2.48	0.43
1:D:646:PHE:HE2	1:D:652:LEU:CG	2.25	0.43
3:F:63:ILE:CG2	3:F:64:THR:H	2.32	0.43
1:G:476:GLU:H	1:G:476:GLU:CD	2.21	0.43
1:J:266:GLU:OE1	1:J:659:MLY:NZ	2.51	0.43
1:J:400:ALA:CB	1:J:606:THR:HG22	2.49	0.43
1:J:537:GLU:OE1	4:W:350:SER:HA	2.19	0.43
1:J:612:GLN:NE2	1:J:627:GLY:H	2.14	0.43
1:J:643:GLY:N	4:W:23:GLY:C	2.55	0.43
1:J:725:ARG:CZ	1:J:737:PHE:CE1	3.02	0.43
1:J:747:LEU:C	1:J:749:GLY:H	2.20	0.43
3:L:50:LEU:O	3:L:53:PRO:HG2	2.18	0.43
1:M:40:VAL:HG23	1:M:76:GLN:O	2.19	0.43
1:M:109:ARG:CD	1:M:117:THR:HB	2.49	0.43
1:M:169:ASP:O	1:M:170:ARG:HB2	2.19	0.43
1:M:195:TYR:CD2	1:M:199:ILE:HD13	2.54	0.43
1:M:449:LEU:N	1:M:449:LEU:CD1	2.81	0.43
1:M:568:PRO:O	1:M:570:PRO:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:14:ALA:N	1:P:15:PRO:CD	2.81	0.43
1:P:294:ASN:OD1	1:P:307:THR:HG21	2.19	0.43
1:P:411:GLU:H	4:1:333:PRO:HB2	1.80	0.43
1:P:485:GLU:HA	1:P:584:TYR:HE2	1.83	0.43
1:P:500:GLN:HB2	1:P:512:PHE:CZ	2.54	0.43
1:P:534:SER:CB	4:1:351:THR:HA	2.49	0.43
4:2:149:THR:HA	4:2:165:ILE:O	2.19	0.43
4:4:180:LEU:HD11	4:4:261:LEU:HD23	2.01	0.43
4:5:205:GLU:O	4:5:208:ILE:HG22	2.18	0.43
4:5:217:CYS:C	4:5:218:TYR:HD1	2.22	0.43
4:8:180:LEU:HD11	4:8:261:LEU:HD23	2.01	0.43
4:9:149:THR:HA	4:9:165:ILE:O	2.19	0.43
4:9:171:LEU:HA	4:9:172:PRO:HD2	1.84	0.43
1:A:93:MET:HG2	1:A:715:VAL:HG23	1.98	0.43
1:A:173:GLN:HG3	1:A:670:HIS:HD2	1.82	0.43
1:A:294:ASN:OD1	1:A:307:THR:HG21	2.19	0.43
1:A:332:MET:O	1:A:336:SER:OG	2.27	0.43
1:A:400:ALA:CB	1:A:606:THR:HG22	2.48	0.43
1:A:725:ARG:CZ	1:A:737:PHE:CZ	3.01	0.43
1:D:14:ALA:HB3	1:D:15:PRO:CD	2.45	0.43
1:D:106:LEU:HD12	1:D:106:LEU:HA	1.79	0.43
1:D:541:MET:N	4:9:349:LEU:CD2	2.69	0.43
1:D:554:LEU:HD12	1:D:554:LEU:HA	1.77	0.43
1:D:831:TRP:NE1	2:E:51:PHE:CE2	2.86	0.43
1:G:169:ASP:O	1:G:170:ARG:HB2	2.19	0.43
1:G:174:SER:OG	1:G:669:PRO:HA	2.18	0.43
1:G:445:ILE:HG22	1:G:449:LEU:HD22	2.01	0.43
1:G:486:MLY:HH22	1:G:527:GLU:CD	2.37	0.43
1:G:639:GLY:H	4:V:344:SER:HB3	1.83	0.43
1:G:725:ARG:NE	1:G:733:PRO:CB	1.95	0.43
1:G:757:GLN:CB	1:G:776:GLU:OE2	2.61	0.43
1:G:768:MLY:HB2	1:G:772:LEU:HB2	1.07	0.43
3:I:122:GLU:HA	3:I:125:GLU:OE1	2.18	0.43
1:J:176:LEU:N	1:J:176:LEU:CD1	2.74	0.43
1:J:294:ASN:OD1	1:J:307:THR:HG21	2.19	0.43
1:J:322:VAL:CG1	1:J:325:ILE:HG13	2.49	0.43
1:J:406:VAL:O	1:J:412:ALA:HA	2.19	0.43
1:J:708:ARG:HA	1:J:712:PRO:HG3	2.01	0.43
1:J:747:LEU:O	1:J:749:GLY:N	2.52	0.43
1:J:787:ILE:HG21	1:J:787:ILE:HD13	1.67	0.43
1:J:819:ASN:OD1	2:K:90:GLY:O	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:62:ALA:O	3:L:63:ILE:HG13	2.14	0.43
3:L:119:THR:O	3:L:123:VAL:HG23	2.18	0.43
1:M:224:SER:O	1:M:227:PRO:HD2	2.17	0.43
1:M:294:ASN:OD1	1:M:307:THR:HG21	2.19	0.43
1:M:309:PRO:C	1:M:311:ASP:H	2.22	0.43
1:M:320:ILE:O	1:M:320:ILE:HG22	2.18	0.43
1:M:332:MET:H	1:M:332:MET:HG2	1.52	0.43
1:M:406:VAL:O	1:M:412:ALA:HA	2.19	0.43
1:M:445:ILE:HG22	1:M:449:LEU:HD22	2.01	0.43
1:M:485:GLU:HA	1:M:584:TYR:HE2	1.83	0.43
1:P:141:LEU:HD12	1:P:141:LEU:N	2.32	0.43
1:P:195:TYR:CD2	1:P:199:ILE:HD13	2.54	0.43
1:P:201:ALA:O	1:P:202:SER:OG	2.36	0.43
1:P:537:GLU:OE1	4:1:350:SER:HA	2.19	0.43
1:P:541:MET:HB3	4:1:345:ILE:HG22	2.00	0.43
4:3:149:THR:HA	4:3:165:ILE:O	2.18	0.43
4:4:217:CYS:C	4:4:218:TYR:HD1	2.22	0.43
4:7:180:LEU:HD11	4:7:261:LEU:HD23	2.01	0.43
4:V:286:ASP:HA	4:X:202:THR:HG22	1.63	0.43
4:W:217:CYS:C	4:W:218:TYR:HD1	2.22	0.43
4:W:222:ASP:OD1	4:W:224:GLU:HB3	2.19	0.43
4:Y:217:CYS:C	4:Y:218:TYR:HD1	2.22	0.43
4:Y:223:PHE:HB3	4:Y:259:GLU:OE2	2.18	0.43
1:A:93:MET:CE	1:A:715:VAL:CG2	2.96	0.42
1:A:155:ILE:HG22	1:A:156:PHE:N	2.33	0.42
1:A:217:THR:HG22	1:A:218:LEU:N	2.33	0.42
1:A:568:PRO:O	1:A:570:PRO:HD3	2.19	0.42
1:D:38:VAL:HG13	1:D:39:PHE:N	2.34	0.42
1:D:500:GLN:HB2	1:D:512:PHE:CZ	2.54	0.42
1:D:612:GLN:NE2	1:D:627:GLY:H	2.14	0.42
1:D:797:PHE:CD1	3:F:146:ILE:O	2.72	0.42
1:G:109:ARG:CD	1:G:117:THR:HB	2.48	0.42
1:G:175:ILE:C	1:G:176:LEU:HD12	2.38	0.42
1:G:485:GLU:OE1	1:G:583:HIS:ND1	2.49	0.42
3:I:50:LEU:O	3:I:53:PRO:HG2	2.18	0.42
1:J:28:GLN:CD	1:J:723:ARG:HG2	2.34	0.42
1:J:62:VAL:HG12	1:J:63:MLY:N	2.34	0.42
1:J:213:LYS:HA	1:J:220:ASP:OD2	2.19	0.42
1:J:496:PHE:HB2	1:J:515:PHE:CD2	2.53	0.42
1:J:568:PRO:O	1:J:570:PRO:HD3	2.19	0.42
1:J:747:LEU:C	1:J:749:GLY:N	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:136:ASN:HA	1:M:137:PRO:HD3	1.50	0.42
1:M:229:LEU:HD12	1:M:229:LEU:HA	1.75	0.42
1:M:556:ASP:OD2	4:2:41:GLN:OE1	2.37	0.42
1:M:576:GLU:CG	1:M:577:ALA:N	2.43	0.42
1:M:599:ASN:CG	1:M:649:VAL:CB	2.80	0.42
1:M:724:TYR:HB3	1:M:727:LEU:CD1	2.49	0.42
1:M:747:LEU:O	1:M:749:GLY:N	2.52	0.42
1:P:14:ALA:HB3	1:P:15:PRO:CD	2.46	0.42
1:P:144:ARG:HA	1:P:144:ARG:HD2	1.78	0.42
1:P:296:MLY:HH11	1:P:348:MLY:CH2	2.48	0.42
1:P:445:ILE:HG22	1:P:449:LEU:HD22	2.01	0.42
1:P:544:LYS:HD2	4:1:147:ARG:CB	2.36	0.42
1:P:723:ARG:HH11	1:P:779:ARG:HG3	1.79	0.42
1:P:747:LEU:O	1:P:749:GLY:N	2.52	0.42
1:P:800:ARG:C	3:R:149:VAL:HG21	2.39	0.42
4:1:222:ASP:OD1	4:1:224:GLU:HB3	2.19	0.42
4:2:180:LEU:HD11	4:2:261:LEU:HD23	2.01	0.42
4:2:220:ALA:HB3	4:2:223:PHE:CD1	2.53	0.42
4:3:223:PHE:HB3	4:3:259:GLU:OE2	2.18	0.42
4:8:217:CYS:C	4:8:218:TYR:HD1	2.22	0.42
4:V:180:LEU:HD11	4:V:261:LEU:HD23	2.01	0.42
4:X:193:LEU:O	4:X:198:TYR:HD2	2.01	0.42
4:Y:222:ASP:OD1	4:Y:224:GLU:HB3	2.19	0.42
1:A:91:MET:CE	1:A:119:SER:HB2	2.47	0.42
1:A:174:SER:HA	1:A:460:GLY:O	2.20	0.42
1:A:723:ARG:CG	1:A:723:ARG:NH1	2.79	0.42
1:A:725:ARG:CG	1:A:733:PRO:HA	2.43	0.42
1:A:747:LEU:C	1:A:749:GLY:N	2.71	0.42
1:A:752:ASP:OD2	1:A:782:MLY:HG2	2.19	0.42
1:A:768:MLY:HB3	1:A:771:LEU:HD13	2.01	0.42
1:A:776:GLU:O	1:A:780:ASP:N	2.45	0.42
2:B:144:VAL:HG12	2:B:153:ILE:HD13	1.92	0.42
1:D:62:VAL:HG12	1:D:63:MLY:N	2.35	0.42
1:D:442:VAL:O	1:D:445:ILE:HB	2.19	0.42
1:D:537:GLU:OE1	4:9:350:SER:HA	2.19	0.42
1:D:715:VAL:HG11	1:D:720:PHE:CD1	2.49	0.42
1:D:715:VAL:HG12	1:D:720:PHE:HB2	2.00	0.42
1:D:795:ARG:CB	3:F:35:ARG:NH2	2.69	0.42
3:F:62:ALA:O	3:F:63:ILE:CB	2.63	0.42
1:G:439:LEU:N	1:G:439:LEU:CD1	2.81	0.42
1:G:775:LEU:HD12	1:G:775:LEU:HA	1.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:149:ASP:OD2	2:H:150:TYR:CA	2.64	0.42
1:J:141:LEU:HD12	1:J:141:LEU:N	2.32	0.42
1:J:798:LEU:HD22	3:L:118:MET:SD	2.58	0.42
1:M:166:MET:CE	1:M:254:PHE:CD2	3.01	0.42
1:P:169:ASP:O	1:P:170:ARG:HB2	2.19	0.42
1:P:320:ILE:O	1:P:320:ILE:HG22	2.18	0.42
1:P:543:PRO:CD	4:1:143:TYR:O	2.64	0.42
1:P:725:ARG:CZ	1:P:737:PHE:CE1	3.02	0.42
1:P:732:ILE:CG2	1:P:747:LEU:HD12	0.35	0.42
1:P:839:MLY:N	1:P:840:PRO:HD2	2.34	0.42
4:4:206:ARG:O	4:4:209:VAL:HG12	2.19	0.42
4:6:217:CYS:C	4:6:218:TYR:HD1	2.22	0.42
4:9:180:LEU:HD11	4:9:261:LEU:HD23	2.01	0.42
4:Y:206:ARG:O	4:Y:209:VAL:HG12	2.20	0.42
4:Y:315:LYS:HD2	4:Y:315:LYS:HA	1.92	0.42
4:Z:180:LEU:HD11	4:Z:261:LEU:HD23	2.01	0.42
1:A:175:ILE:C	1:A:176:LEU:HD12	2.38	0.42
1:A:195:TYR:CD2	1:A:199:ILE:HD13	2.54	0.42
1:A:271:GLU:OE1	1:A:274:ARG:NH1	2.53	0.42
1:A:398:LEU:HA	1:A:398:LEU:HD12	1.84	0.42
1:A:439:LEU:N	1:A:439:LEU:CD1	2.81	0.42
1:A:599:ASN:CG	1:A:649:VAL:CB	2.80	0.42
1:A:701:LEU:HA	1:A:701:LEU:HD12	1.54	0.42
1:A:831:TRP:CD2	2:B:51:PHE:CE1	3.06	0.42
2:B:112:ILE:O	2:B:148:VAL:N	2.50	0.42
2:B:140:PHE:CD2	2:B:144:VAL:HG11	2.54	0.42
1:D:60:VAL:O	1:D:72:VAL:N	2.51	0.42
1:D:141:LEU:HD12	1:D:141:LEU:N	2.32	0.42
1:D:173:GLN:HG3	1:D:670:HIS:CD2	2.54	0.42
1:D:330:GLU:HG2	1:D:330:GLU:H	1.54	0.42
1:D:725:ARG:HA	1:D:732:ILE:CG2	2.50	0.42
1:D:747:LEU:O	1:D:749:GLY:N	2.52	0.42
1:G:129:TYR:HD1	1:G:129:TYR:HA	1.65	0.42
1:G:309:PRO:C	1:G:311:ASP:H	2.22	0.42
3:I:52:ASN:CB	3:I:53:PRO:HD3	2.28	0.42
1:J:14:ALA:HB3	1:J:15:PRO:CD	2.46	0.42
1:M:62:VAL:HG12	1:M:63:MLY:N	2.35	0.42
1:M:86:ASP:OD2	1:M:87:MLY:HH22	2.18	0.42
1:M:166:MET:CE	1:M:254:PHE:HB2	2.47	0.42
1:M:175:ILE:C	1:M:176:LEU:HD12	2.38	0.42
1:M:226:ASN:HB2	1:M:227:PRO:CD	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:271:GLU:OE1	1:M:274:ARG:NH1	2.53	0.42
1:M:308:ASN:HA	1:M:309:PRO:HD2	1.88	0.42
1:M:534:SER:CB	4:Z:351:THR:HA	2.49	0.42
1:M:541:MET:HG2	4:Z:345:ILE:HG23	2.01	0.42
1:M:767:PHE:HB3	1:M:772:LEU:CD1	2.49	0.42
1:P:226:ASN:HB2	1:P:227:PRO:CD	2.47	0.42
1:P:402:CYS:C	1:P:404:PRO:HD3	2.40	0.42
1:P:568:PRO:O	1:P:570:PRO:HD3	2.19	0.42
1:P:642:LYS:HB2	4:1:24:ASP:O	1.88	0.42
4:1:217:CYS:C	4:1:218:TYR:HD1	2.22	0.42
4:1:246:GLN:HG2	4:Y:325:MET:CE	2.50	0.42
4:2:203:THR:N	4:Z:287:ILE:HG21	2.34	0.42
4:2:222:ASP:OD1	4:2:224:GLU:HB3	2.19	0.42
4:9:217:CYS:C	4:9:218:TYR:HD1	2.22	0.42
4:W:180:LEU:HD11	4:W:261:LEU:HD23	2.01	0.42
1:A:169:ASP:O	1:A:170:ARG:HB2	2.19	0.42
1:A:402:CYS:C	1:A:404:PRO:HD3	2.39	0.42
1:A:534:SER:CB	4:8:351:THR:HA	2.48	0.42
1:D:88:ILE:HG21	1:D:88:ILE:HD12	1.78	0.42
1:D:246:PHE:HB3	1:D:270:LEU:HD12	2.01	0.42
1:D:402:CYS:C	1:D:404:PRO:HD3	2.39	0.42
1:D:540:CYS:C	4:9:349:LEU:HD21	2.36	0.42
1:D:544:LYS:HD2	4:9:147:ARG:CB	2.36	0.42
1:D:643:GLY:CA	4:9:24:ASP:OD1	2.61	0.42
1:D:690:LEU:O	1:D:694:GLN:HG3	2.20	0.42
1:D:732:ILE:HG21	1:D:747:LEU:CD1	0.63	0.42
1:D:732:ILE:HG23	1:D:747:LEU:HD12	0.95	0.42
1:D:795:ARG:CA	3:F:118:MET:HE3	2.49	0.42
2:E:113:LYS:O	2:E:147:ASN:HB2	2.20	0.42
1:G:271:GLU:OE1	1:G:274:ARG:NH1	2.53	0.42
1:G:320:ILE:O	1:G:320:ILE:HG22	2.18	0.42
1:G:537:GLU:OE1	4:V:350:SER:HA	2.20	0.42
1:G:730:SER:OG	3:I:113:THR:HG21	2.19	0.42
1:G:741:LYS:HG2	1:G:742:LYS:N	2.35	0.42
1:G:747:LEU:O	1:G:749:GLY:N	2.52	0.42
1:G:815:CYS:SG	2:H:92:ASP:CG	2.98	0.42
1:G:829:TRP:O	1:G:832:MET:N	2.50	0.42
1:G:838:ILE:HG13	2:H:54:MET:CE	2.49	0.42
2:H:140:PHE:CD2	2:H:144:VAL:HG11	2.55	0.42
1:J:195:TYR:CD2	1:J:199:ILE:HD13	2.54	0.42
1:J:214:MET:CA	1:J:340:ILE:HD11	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:506:GLU:HG2	1:J:760:PHE:O	2.18	0.42
1:J:553:MLY:HH12	4:Y:45:VAL:HG11	2.00	0.42
1:J:839:MLY:N	1:J:840:PRO:HD2	2.34	0.42
1:M:173:GLN:HG3	1:M:670:HIS:CD2	2.55	0.42
1:M:801:VAL:HG22	3:O:149:VAL:HG11	2.02	0.42
1:P:25:ILE:HG23	1:P:29:ASN:HD22	1.85	0.42
1:P:797:PHE:CD1	3:R:146:ILE:C	2.87	0.42
1:P:826:VAL:O	1:P:828:HIS:N	2.53	0.42
1:P:842:LEU:N	1:P:842:LEU:CD1	2.83	0.42
3:R:50:LEU:O	3:R:53:PRO:HG2	2.18	0.42
4:1:193:LEU:O	4:1:198:TYR:HD2	2.01	0.42
4:6:180:LEU:HD11	4:6:261:LEU:HD23	2.01	0.42
4:7:205:GLU:O	4:7:208:ILE:HG22	2.18	0.42
4:8:206:ARG:O	4:8:209:VAL:HG12	2.20	0.42
4:X:180:LEU:HD11	4:X:261:LEU:HD23	2.01	0.42
4:Z:217:CYS:C	4:Z:218:TYR:HD1	2.22	0.42
4:Z:222:ASP:OD1	4:Z:224:GLU:HB3	2.19	0.42
1:A:40:VAL:HG23	1:A:76:GLN:O	2.19	0.42
1:A:502:GLU:HG2	1:A:766:PHE:HD1	1.85	0.42
1:A:538:GLU:OE1	4:8:355:MET:HE3	2.18	0.42
1:A:578:HIS:CD2	1:A:592:ILE:H	2.38	0.42
1:A:732:ILE:CG2	1:A:747:LEU:HD12	0.35	0.42
1:D:195:TYR:CD2	1:D:199:ILE:HD13	2.54	0.42
1:D:445:ILE:HG22	1:D:449:LEU:HD22	2.01	0.42
1:D:496:PHE:HB2	1:D:515:PHE:CD2	2.54	0.42
1:D:507:GLY:C	1:D:762:HIS:H	2.21	0.42
1:D:712:PRO:CD	1:D:771:LEU:HD13	2.44	0.42
1:D:744:SER:O	1:D:748:LEU:HD12	2.20	0.42
1:D:826:VAL:O	1:D:828:HIS:N	2.53	0.42
2:E:149:ASP:OD2	2:E:150:TYR:CA	2.64	0.42
1:G:174:SER:HA	1:G:460:GLY:O	2.20	0.42
1:G:226:ASN:HB2	1:G:227:PRO:CD	2.47	0.42
1:G:295:MLY:CE	1:G:332:MET:CE	2.97	0.42
1:G:553:MLY:CB	4:X:46:GLY:HA3	2.49	0.42
1:G:813:ILE:HG22	2:H:128:PHE:HE1	1.78	0.42
1:J:206:LYS:CE	1:J:217:THR:HG23	2.29	0.42
1:J:442:VAL:O	1:J:445:ILE:HB	2.19	0.42
1:J:445:ILE:HG22	1:J:449:LEU:HD22	2.01	0.42
1:J:449:LEU:N	1:J:449:LEU:CD1	2.81	0.42
1:J:725:ARG:HA	1:J:732:ILE:CG2	2.50	0.42
1:J:741:LYS:HG2	1:J:742:LYS:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:49:ILE:CA	3:L:52:ASN:ND2	2.53	0.42
1:M:62:VAL:O	1:M:69:THR:HA	2.19	0.42
1:M:95:THR:CG2	1:M:773:GLY:CA	2.69	0.42
1:M:97:LEU:HD12	1:M:97:LEU:HA	1.67	0.42
1:M:462:LEU:HD11	1:M:464:ILE:CD1	2.50	0.42
1:M:578:HIS:CD2	1:M:592:ILE:H	2.38	0.42
1:M:725:ARG:HA	1:M:732:ILE:CG2	2.50	0.42
1:M:793:ARG:HA	3:O:40:ASN:CB	2.50	0.42
1:M:798:LEU:HD11	3:O:126:LEU:CG	2.39	0.42
3:O:63:ILE:CG2	3:O:64:THR:H	2.33	0.42
1:P:38:VAL:HG13	1:P:39:PHE:N	2.35	0.42
1:P:462:LEU:HD11	1:P:464:ILE:CD1	2.50	0.42
1:P:690:LEU:O	1:P:694:GLN:HG3	2.20	0.42
4:1:180:LEU:HD11	4:1:261:LEU:HD23	2.01	0.42
4:1:206:ARG:O	4:1:209:VAL:HG12	2.20	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	2.01	0.42
4:4:220:ALA:HB3	4:4:223:PHE:CD1	2.53	0.42
4:4:287:ILE:CB	4:6:203:THR:HG22	2.44	0.42
4:5:180:LEU:HD11	4:5:261:LEU:HD23	2.02	0.42
4:5:206:ARG:O	4:5:209:VAL:HG12	2.20	0.42
4:6:222:ASP:OD1	4:6:224:GLU:HB3	2.19	0.42
4:7:196:ARG:HH21	4:7:249:THR:HG23	1.85	0.42
4:9:205:GLU:O	4:9:208:ILE:HG22	2.18	0.42
4:9:206:ARG:O	4:9:209:VAL:HG12	2.20	0.42
4:V:217:CYS:C	4:V:218:TYR:HD1	2.22	0.42
4:X:206:ARG:O	4:X:209:VAL:HG12	2.20	0.42
1:A:123:CYS:HB2	1:A:158:ILE:HD13	2.00	0.42
1:D:166:MET:CE	1:D:254:PHE:CD2	3.00	0.42
1:D:169:ASP:O	1:D:170:ARG:HB2	2.19	0.42
1:D:550:PHE:C	4:W:46:GLY:CA	2.88	0.42
1:D:636:LYS:CB	4:9:334:GLU:OE1	2.68	0.42
1:D:831:TRP:HZ3	2:E:34:ILE:CG1	2.32	0.42
2:E:149:ASP:CG	2:E:150:TYR:N	2.49	0.42
1:G:354:LEU:HD12	1:G:354:LEU:HA	1.56	0.42
1:G:402:CYS:C	1:G:404:PRO:HD3	2.40	0.42
1:G:568:PRO:O	1:G:570:PRO:HD3	2.19	0.42
1:G:659:MLY:HH22	1:G:659:MLY:HD2	1.42	0.42
1:G:839:MLY:N	1:G:840:PRO:HD2	2.35	0.42
3:I:63:ILE:CG2	3:I:64:THR:H	2.32	0.42
1:J:136:ASN:HA	1:J:137:PRO:HD3	1.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:169:ASP:O	1:J:170:ARG:HB2	2.19	0.42
1:J:296:MLY:HH11	1:J:348:MLY:CH2	2.48	0.42
1:J:500:GLN:HB2	1:J:512:PHE:CZ	2.54	0.42
1:J:826:VAL:O	1:J:828:HIS:N	2.53	0.42
2:K:137:TRP:CZ3	2:K:145:ALA:N	2.81	0.42
1:M:295:MLY:CE	1:M:332:MET:CE	2.97	0.42
1:P:11:GLY:O	1:P:14:ALA:HB3	2.20	0.42
1:P:400:ALA:CB	1:P:606:THR:HG22	2.49	0.42
1:P:578:HIS:CD2	1:P:592:ILE:H	2.38	0.42
4:1:149:THR:HA	4:1:165:ILE:O	2.19	0.42
4:3:206:ARG:O	4:3:209:VAL:HG12	2.20	0.42
4:5:196:ARG:HH21	4:5:249:THR:HG23	1.85	0.42
4:9:222:ASP:OD1	4:9:224:GLU:HB3	2.19	0.42
4:Y:180:LEU:HD11	4:Y:261:LEU:HD23	2.01	0.42
1:A:185:LYS:H	1:A:185:LYS:HG3	1.63	0.42
1:A:278:GLN:HE21	1:A:278:GLN:HB3	1.42	0.42
1:A:335:ASP:O	1:A:338:ILE:HB	2.20	0.42
1:A:537:GLU:OE1	4:8:350:SER:HA	2.19	0.42
1:A:541:MET:HG2	4:8:345:ILE:HG23	2.01	0.42
1:A:725:ARG:CZ	1:A:737:PHE:CE1	3.02	0.42
1:A:744:SER:O	1:A:748:LEU:HD12	2.20	0.42
1:A:791:GLN:NE2	3:C:114:LEU:O	2.53	0.42
1:A:797:PHE:CD2	1:A:798:LEU:HD12	2.55	0.42
2:B:140:PHE:HA	2:B:141:PRO:HD2	1.56	0.42
1:D:202:SER:HB2	1:D:207:LYS:HZ1	1.84	0.42
1:D:406:VAL:O	1:D:412:ALA:HA	2.20	0.42
1:D:733:PRO:CB	1:D:737:PHE:CE1	3.02	0.42
1:D:829:TRP:HZ3	2:E:84:PHE:HZ	1.67	0.42
1:G:62:VAL:O	1:G:69:THR:HA	2.19	0.42
1:G:462:LEU:HD11	1:G:464:ILE:CD1	2.50	0.42
1:G:485:GLU:OE2	1:G:584:TYR:N	2.50	0.42
1:G:530:MET:CB	4:V:354:GLN:CB	2.96	0.42
1:G:744:SER:O	1:G:748:LEU:HD12	2.20	0.42
1:J:539:GLU:OE2	1:J:553:MLY:HD3	2.20	0.42
1:J:756:THR:HG23	1:J:779:ARG:HD2	2.01	0.42
1:J:757:GLN:HA	1:J:776:GLU:CG	2.37	0.42
1:J:795:ARG:NH2	3:L:44:ALA:N	2.67	0.42
1:M:11:GLY:O	1:M:14:ALA:HB3	2.20	0.42
1:M:17:LEU:HA	1:M:17:LEU:HD12	1.67	0.42
1:M:151:ALA:HB1	1:M:152:PRO:HD2	2.01	0.42
1:M:174:SER:HA	1:M:460:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:330:GLU:HG2	1:M:330:GLU:H	1.54	0.42
1:M:506:GLU:OE2	1:M:763:THR:CB	2.65	0.42
1:M:612:GLN:NE2	1:M:627:GLY:H	2.14	0.42
1:M:787:ILE:HD13	1:M:787:ILE:HG21	1.67	0.42
1:P:554:LEU:HD12	1:P:554:LEU:HA	1.76	0.42
1:P:636:LYS:CB	4:1:334:GLU:OE1	2.68	0.42
1:P:724:TYR:CE1	1:P:775:LEU:CD2	3.00	0.42
1:P:725:ARG:HA	1:P:732:ILE:CG2	2.50	0.42
1:P:805:ALA:O	1:P:809:ARG:CG	2.66	0.42
2:Q:113:LYS:O	2:Q:147:ASN:HB2	2.20	0.42
3:R:25:ILE:O	3:R:63:ILE:CB	2.66	0.42
4:1:110:LEU:HB3	4:2:195:GLU:CB	2.47	0.42
4:2:217:CYS:C	4:2:218:TYR:HD1	2.22	0.42
4:4:148:THR:HG21	4:6:45:VAL:CG2	2.50	0.42
4:4:196:ARG:HH21	4:4:249:THR:HG23	1.85	0.42
4:9:196:ARG:HH21	4:9:249:THR:HG23	1.85	0.42
4:W:149:THR:HA	4:W:165:ILE:O	2.19	0.42
4:W:206:ARG:O	4:W:209:VAL:HG12	2.20	0.42
4:Z:221:LEU:HA	4:Z:312:ARG:HG2	2.02	0.42
1:A:63:MLY:HH23	1:A:63:MLY:HD3	1.76	0.42
1:A:775:LEU:HA	1:A:775:LEU:HD12	1.71	0.42
1:A:831:TRP:CZ2	2:B:34:ILE:HG23	2.55	0.42
1:D:25:ILE:HG23	1:D:29:ASN:HD22	1.85	0.42
1:D:166:MET:CE	1:D:254:PHE:HB2	2.46	0.42
1:D:294:ASN:OD1	1:D:307:THR:HG21	2.19	0.42
1:D:462:LEU:HD11	1:D:464:ILE:CD1	2.50	0.42
1:D:568:PRO:O	1:D:570:PRO:HD3	2.19	0.42
1:D:839:MLY:N	1:D:840:PRO:HD2	2.35	0.42
1:D:842:LEU:N	1:D:842:LEU:CD1	2.82	0.42
2:E:123:THR:HA	3:F:19:ARG:HH12	1.85	0.42
1:G:173:GLN:HG3	1:G:670:HIS:CD2	2.55	0.42
1:G:279:LEU:CB	1:G:280:PRO:HD2	2.49	0.42
1:G:335:ASP:O	1:G:338:ILE:HB	2.20	0.42
1:G:409:GLY:N	1:G:636:LYS:CD	2.71	0.42
1:G:578:HIS:CD2	1:G:592:ILE:H	2.38	0.42
1:J:84:MLY:O	1:J:723:ARG:CZ	2.60	0.42
1:J:553:MLY:HE2	4:Y:45:VAL:HB	2.01	0.42
1:J:829:TRP:CE2	2:K:87:LYS:CE	2.97	0.42
1:M:278:GLN:HE21	1:M:278:GLN:HB3	1.42	0.42
1:M:792:ALA:CA	3:O:42:THR:CG2	2.69	0.42
2:N:140:PHE:CD2	2:N:144:VAL:HG11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:88:ILE:HG21	1:P:88:ILE:HD12	1.78	0.42
1:P:725:ARG:CZ	1:P:733:PRO:CB	2.83	0.42
1:P:744:SER:O	1:P:748:LEU:HD12	2.20	0.42
4:1:205:GLU:O	4:1:208:ILE:HG22	2.18	0.42
4:1:315:LYS:HD2	4:1:315:LYS:HA	1.92	0.42
4:3:222:ASP:OD1	4:3:224:GLU:HB3	2.19	0.42
4:V:369:ILE:HG23	4:V:370:VAL:N	2.35	0.42
4:W:315:LYS:HD2	4:W:315:LYS:HA	1.92	0.42
4:Z:369:ILE:HG23	4:Z:370:VAL:N	2.35	0.42
1:A:86:ASP:OD2	1:A:87:MLY:HH22	2.18	0.42
1:A:541:MET:SD	4:8:345:ILE:C	2.95	0.42
1:A:690:LEU:O	1:A:694:GLN:HG3	2.20	0.42
1:A:741:LYS:HG2	1:A:742:LYS:N	2.34	0.42
1:A:772:LEU:HA	1:A:772:LEU:HD12	1.83	0.42
1:A:797:PHE:CD1	3:C:146:ILE:HG22	2.47	0.42
3:C:62:ALA:O	3:C:63:ILE:CB	2.63	0.42
1:D:195:TYR:CE2	1:D:199:ILE:HD13	2.55	0.42
1:D:578:HIS:CD2	1:D:592:ILE:H	2.38	0.42
2:E:140:PHE:CD2	2:E:144:VAL:HG11	2.54	0.42
1:G:86:ASP:OD2	1:G:87:MLY:HH22	2.19	0.42
1:G:195:TYR:CE2	1:G:199:ILE:HD13	2.55	0.42
1:G:294:ASN:OD1	1:G:307:THR:HG21	2.19	0.42
1:G:529:PRO:HB3	4:V:354:GLN:HA	2.00	0.42
1:G:791:GLN:HB3	3:I:116:GLU:CG	2.49	0.42
1:J:166:MET:CE	1:J:254:PHE:CD2	3.01	0.42
1:J:842:LEU:N	1:J:842:LEU:CD1	2.83	0.42
2:K:140:PHE:CD2	2:K:144:VAL:HG11	2.54	0.42
1:M:14:ALA:HB3	1:M:15:PRO:CD	2.46	0.42
1:M:296:MLY:HH11	1:M:348:MLY:CH2	2.48	0.42
1:M:500:GLN:HB2	1:M:512:PHE:CZ	2.54	0.42
1:M:722:GLN:CG	3:O:86:ASP:CG	2.79	0.42
1:M:741:LYS:HG2	1:M:742:LYS:N	2.35	0.42
1:M:795:ARG:HE	3:O:116:GLU:HB3	1.85	0.42
1:M:797:PHE:CD2	1:M:798:LEU:HD12	2.55	0.42
1:M:805:ALA:HA	1:M:808:GLU:OE1	2.20	0.42
1:P:406:VAL:O	1:P:412:ALA:HA	2.19	0.42
1:P:724:TYR:CZ	1:P:775:LEU:CB	2.65	0.42
3:R:63:ILE:CG2	3:R:64:THR:H	2.32	0.42
4:1:244:ASP:HB3	4:Y:291:LYS:HZ2	1.22	0.42
4:1:289:ILE:HG22	4:3:64:ILE:HG23	2.02	0.42
4:3:205:GLU:O	4:3:208:ILE:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:193:LEU:HD11	4:4:250:ILE:HG13	2.02	0.42
4:5:193:LEU:HD11	4:5:250:ILE:HG13	2.02	0.42
4:6:193:LEU:HD11	4:6:250:ILE:HG13	2.02	0.42
4:W:205:GLU:O	4:W:208:ILE:HG22	2.18	0.42
4:Y:205:GLU:O	4:Y:208:ILE:HG22	2.18	0.42
1:A:11:GLY:O	1:A:14:ALA:HB3	2.20	0.42
1:A:309:PRO:C	1:A:311:ASP:H	2.22	0.42
1:A:356:GLY:HA2	1:A:359:MET:HG3	2.02	0.42
1:A:500:GLN:HB2	1:A:512:PHE:CZ	2.54	0.42
1:A:636:LYS:CB	4:8:334:GLU:OE1	2.67	0.42
1:A:747:LEU:O	1:A:749:GLY:N	2.52	0.42
1:A:826:VAL:O	1:A:828:HIS:N	2.53	0.42
1:D:51:THR:O	1:D:62:VAL:CG1	2.63	0.42
1:D:129:TYR:HD1	1:D:129:TYR:HA	1.65	0.42
1:D:541:MET:CE	4:9:346:LEU:HD12	2.47	0.42
1:D:741:LYS:HG2	1:D:742:LYS:N	2.34	0.42
1:D:776:GLU:O	1:D:780:ASP:N	2.45	0.42
1:D:797:PHE:CD2	1:D:798:LEU:HD12	2.55	0.42
2:E:139:ALA:O	2:E:141:PRO:CD	2.51	0.42
1:G:11:GLY:O	1:G:14:ALA:HB3	2.20	0.42
1:G:25:ILE:HG23	1:G:29:ASN:HD22	1.85	0.42
1:G:330:GLU:OE1	1:G:330:GLU:HA	2.20	0.42
1:G:471:ASP:CB	1:G:573:GLY:O	2.68	0.42
1:G:500:GLN:HB2	1:G:512:PHE:CZ	2.54	0.42
1:G:690:LEU:O	1:G:694:GLN:HG3	2.20	0.42
1:J:462:LEU:HD11	1:J:464:ILE:CD1	2.50	0.42
1:J:636:LYS:CB	4:W:334:GLU:OE1	2.68	0.42
1:J:756:THR:CB	1:J:776:GLU:HB3	2.50	0.42
2:K:139:ALA:O	2:K:141:PRO:CD	2.51	0.42
1:M:195:TYR:CE2	1:M:199:ILE:HD13	2.55	0.42
1:M:723:ARG:NH2	1:M:779:ARG:O	2.42	0.42
1:M:826:VAL:O	1:M:828:HIS:N	2.53	0.42
2:N:144:VAL:HG12	2:N:153:ILE:HD13	1.92	0.42
3:O:95:ASP:OD1	3:O:139:TYR:HE1	2.03	0.42
1:P:62:VAL:O	1:P:69:THR:HA	2.20	0.42
1:P:213:LYS:HA	1:P:220:ASP:OD2	2.19	0.42
1:P:217:THR:CA	1:P:221:GLN:HE21	2.33	0.42
1:P:442:VAL:O	1:P:445:ILE:HB	2.19	0.42
1:P:534:SER:HB2	4:1:354:GLN:HE22	1.56	0.42
1:P:539:GLU:OE2	1:P:553:MLY:HD3	2.20	0.42
1:P:718:ALA:CA	3:R:85:GLU:OE1	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:795:ARG:HG2	3:R:118:MET:HE1	2.02	0.42
3:R:95:ASP:OD1	3:R:139:TYR:HE1	2.03	0.42
4:2:193:LEU:HD11	4:2:250:ILE:HG13	2.02	0.42
4:2:221:LEU:HA	4:2:312:ARG:HG2	2.02	0.42
4:3:193:LEU:HD11	4:3:250:ILE:HG13	2.02	0.42
4:4:322:PRO:CA	4:6:244:ASP:HB2	2.49	0.42
4:5:222:ASP:OD1	4:5:224:GLU:HB3	2.19	0.42
4:6:206:ARG:O	4:6:209:VAL:HG12	2.20	0.42
4:6:315:LYS:HD2	4:6:315:LYS:HA	1.92	0.42
4:8:369:ILE:HG23	4:8:370:VAL:N	2.35	0.42
4:9:193:LEU:HD11	4:9:250:ILE:HG13	2.02	0.42
4:V:206:ARG:O	4:V:209:VAL:HG12	2.20	0.42
4:X:217:CYS:C	4:X:218:TYR:HD1	2.22	0.42
4:X:287:ILE:HD12	4:Z:205:GLU:CG	2.49	0.42
4:Z:206:ARG:O	4:Z:209:VAL:HG12	2.20	0.42
1:A:38:VAL:HG13	1:A:39:PHE:N	2.35	0.41
1:A:135:TYR:HD2	1:A:191:ARG:CG	2.32	0.41
1:A:151:ALA:HB1	1:A:152:PRO:HD2	2.01	0.41
1:A:406:VAL:O	1:A:412:ALA:HA	2.19	0.41
1:A:733:PRO:CB	1:A:737:PHE:CE1	3.02	0.41
1:A:839:MLY:N	1:A:840:PRO:HD2	2.35	0.41
1:D:724:TYR:HB3	1:D:727:LEU:CD1	2.48	0.41
1:D:793:ARG:NE	3:F:87:PHE:CE1	2.88	0.41
1:G:406:VAL:O	1:G:412:ALA:HA	2.19	0.41
1:G:466:GLY:CA	1:G:484:ASN:HD21	2.32	0.41
1:G:755:HIS:CG	1:G:779:ARG:NH1	2.69	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:60:VAL:O	1:J:72:VAL:N	2.51	0.41
1:J:330:GLU:OE1	1:J:330:GLU:HA	2.20	0.41
1:J:541:MET:CE	4:W:346:LEU:HD12	2.47	0.41
1:J:578:HIS:CD2	1:J:592:ILE:H	2.38	0.41
1:M:136:ASN:O	1:M:138:MLY:N	2.53	0.41
1:M:214:MET:CA	1:M:340:ILE:HD11	2.45	0.41
1:M:530:MET:HA	4:Z:354:GLN:CD	2.11	0.41
1:M:690:LEU:O	1:M:694:GLN:HG3	2.20	0.41
1:M:744:SER:O	1:M:748:LEU:HD12	2.20	0.41
1:M:806:MET:CA	1:M:809:ARG:HB2	2.49	0.41
1:P:135:TYR:HD2	1:P:191:ARG:CG	2.33	0.41
1:P:443:ILE:HG22	1:P:444:ARG:N	2.29	0.41
1:P:676:ILE:HA	1:P:677:PRO:HD3	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:793:ARG:NH1	3:R:40:ASN:ND2	2.61	0.41
4:1:369:ILE:HG23	4:1:370:VAL:N	2.35	0.41
4:5:171:LEU:HA	4:5:172:PRO:HD2	1.84	0.41
4:7:193:LEU:HD11	4:7:250:ILE:HG13	2.02	0.41
4:7:226:GLU:HG3	4:7:255:PHE:CE2	2.55	0.41
4:8:221:LEU:HA	4:8:312:ARG:HG2	2.02	0.41
4:X:222:ASP:OD1	4:X:224:GLU:HB3	2.19	0.41
4:Y:193:LEU:HD11	4:Y:250:ILE:HG13	2.02	0.41
1:A:93:MET:SD	1:A:715:VAL:HG13	2.59	0.41
1:A:136:ASN:O	1:A:138:MLY:N	2.54	0.41
1:A:173:GLN:HG3	1:A:670:HIS:CD2	2.55	0.41
1:A:462:LEU:HD11	1:A:464:ILE:CD1	2.50	0.41
1:A:641:LYS:HG3	1:A:647:GLN:HG2	1.72	0.41
2:B:113:LYS:O	2:B:147:ASN:HB2	2.20	0.41
1:D:213:LYS:HA	1:D:220:ASP:OD2	2.19	0.41
1:D:411:GLU:HB2	1:D:412:ALA:H	1.72	0.41
1:D:528:MLY:HB2	1:D:529:PRO:HD2	2.03	0.41
1:G:135:TYR:HD2	1:G:191:ARG:CG	2.33	0.41
1:G:506:GLU:HG2	1:G:759:ALA:HB1	2.01	0.41
1:G:793:ARG:O	1:G:797:PHE:N	2.39	0.41
1:G:797:PHE:CD2	1:G:798:LEU:HD12	2.55	0.41
1:G:842:LEU:N	1:G:842:LEU:CD1	2.82	0.41
1:J:97:LEU:HD12	1:J:97:LEU:HA	1.67	0.41
1:J:221:GLN:HG2	1:J:221:GLN:H	1.47	0.41
1:J:402:CYS:C	1:J:404:PRO:HD3	2.39	0.41
1:J:505:MLY:HG3	1:J:762:HIS:HE1	1.66	0.41
1:J:530:MET:CE	4:W:354:GLN:CB	2.95	0.41
1:J:692:LEU:HA	1:J:692:LEU:HD23	1.84	0.41
1:J:717:TYR:OH	1:J:760:PHE:HB3	2.21	0.41
1:M:402:CYS:C	1:M:404:PRO:HD3	2.40	0.41
1:M:519:LEU:HD12	1:M:519:LEU:H	1.83	0.41
1:M:636:LYS:CB	4:Z:334:GLU:OE1	2.68	0.41
1:M:797:PHE:CE2	3:O:126:LEU:HD22	2.54	0.41
1:P:173:GLN:HG3	1:P:670:HIS:CD2	2.55	0.41
1:P:295:MLY:CD	1:P:332:MET:HE2	2.50	0.41
1:P:466:GLY:CA	1:P:484:ASN:HD21	2.32	0.41
1:P:543:PRO:CG	4:1:146:GLY:O	2.66	0.41
1:P:741:LYS:HG2	1:P:742:LYS:N	2.35	0.41
1:P:772:LEU:HD12	1:P:772:LEU:HA	1.83	0.41
1:P:797:PHE:CD2	1:P:798:LEU:HD12	2.55	0.41
4:1:193:LEU:HD11	4:1:250:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1:226:GLU:HG3	4:1:255:PHE:CE2	2.56	0.41
4:7:287:ILE:N	4:9:202:THR:CG2	2.77	0.41
4:W:193:LEU:HD11	4:W:250:ILE:HG13	2.02	0.41
4:X:193:LEU:HD11	4:X:250:ILE:HG13	2.02	0.41
4:Y:196:ARG:HH21	4:Y:249:THR:HG23	1.85	0.41
4:Z:193:LEU:HD11	4:Z:250:ILE:HG13	2.02	0.41
4:Z:226:GLU:HG3	4:Z:255:PHE:CE2	2.55	0.41
1:A:97:LEU:HA	1:A:97:LEU:HD12	1.67	0.41
1:D:11:GLY:O	1:D:14:ALA:HB3	2.20	0.41
1:D:723:ARG:NH2	1:D:779:ARG:NH2	2.68	0.41
1:D:800:ARG:HD3	3:F:149:VAL:C	2.40	0.41
1:G:38:VAL:HG13	1:G:39:PHE:N	2.35	0.41
1:G:62:VAL:HG12	1:G:63:MLY:N	2.34	0.41
1:G:84:MLY:HH21	1:G:720:PHE:HA	2.02	0.41
1:G:151:ALA:HB1	1:G:152:PRO:HD2	2.01	0.41
1:G:320:ILE:O	1:G:320:ILE:CG2	2.68	0.41
2:H:137:TRP:CA	2:H:145:ALA:HB2	2.37	0.41
1:J:62:VAL:O	1:J:69:THR:HA	2.19	0.41
1:J:91:MET:CE	1:J:119:SER:HB2	2.48	0.41
1:J:218:LEU:HA	1:J:221:GLN:HG3	1.71	0.41
1:J:471:ASP:CB	1:J:573:GLY:O	2.68	0.41
1:J:755:HIS:N	1:J:780:ASP:OD2	2.53	0.41
1:M:25:ILE:HG23	1:M:29:ASN:HD22	1.85	0.41
1:M:335:ASP:O	1:M:338:ILE:HB	2.20	0.41
1:M:418:THR:CG2	1:M:419:VAL:N	2.79	0.41
1:M:533:PHE:HD1	1:M:533:PHE:HA	1.79	0.41
1:M:541:MET:CG	4:Z:345:ILE:C	2.87	0.41
1:M:544:LYS:CE	4:2:45:VAL:CG2	2.98	0.41
1:M:701:LEU:HD12	1:M:701:LEU:HA	1.55	0.41
1:M:767:PHE:CD2	1:M:772:LEU:HD11	2.51	0.41
1:M:836:PHE:CD1	2:N:159:HIS:HA	2.32	0.41
1:M:839:MLY:N	1:M:840:PRO:HD2	2.35	0.41
1:P:639:GLY:CA	4:1:344:SER:O	2.39	0.41
1:P:722:GLN:HB2	3:R:85:GLU:H	1.84	0.41
1:P:805:ALA:C	1:P:808:GLU:HB2	2.41	0.41
1:P:821:ARG:HH22	2:Q:127:ARG:CD	2.22	0.41
2:Q:140:PHE:CD2	2:Q:144:VAL:HG11	2.54	0.41
4:1:196:ARG:HH21	4:1:249:THR:HG23	1.85	0.41
4:3:221:LEU:HA	4:3:312:ARG:HG2	2.02	0.41
4:4:324:THR:HG23	4:6:244:ASP:O	2.17	0.41
4:6:369:ILE:HG23	4:6:370:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:9:226:GLU:HG3	4:9:255:PHE:CE2	2.56	0.41
4:V:193:LEU:HD11	4:V:250:ILE:HG13	2.02	0.41
4:W:369:ILE:HG23	4:W:370:VAL:N	2.35	0.41
4:Y:149:THR:HA	4:Y:165:ILE:O	2.19	0.41
1:A:471:ASP:CB	1:A:573:GLY:O	2.68	0.41
1:A:641:LYS:CE	1:A:647:GLN:CB	2.74	0.41
1:A:725:ARG:HA	1:A:732:ILE:CG2	2.49	0.41
1:A:810:ARG:HG2	1:A:810:ARG:NH1	2.29	0.41
1:A:842:LEU:N	1:A:842:LEU:CD1	2.83	0.41
2:B:54:MET:O	2:H:21:GLU:HB2	2.20	0.41
3:C:63:ILE:CG2	3:C:64:THR:H	2.33	0.41
1:D:330:GLU:OE1	1:D:330:GLU:HA	2.20	0.41
1:D:335:ASP:O	1:D:338:ILE:HB	2.20	0.41
3:F:56:GLU:OE1	3:F:59:ASN:ND2	2.54	0.41
1:G:87:MLY:HH12	1:G:87:MLY:HD3	1.61	0.41
1:G:136:ASN:O	1:G:138:MLY:N	2.54	0.41
1:G:296:MLY:HH11	1:G:348:MLY:CH2	2.48	0.41
1:G:506:GLU:HG2	1:G:760:PHE:H	1.85	0.41
1:G:797:PHE:CE1	3:I:146:ILE:CB	3.03	0.41
1:G:810:ARG:HG2	1:G:810:ARG:NH1	2.28	0.41
1:G:826:VAL:O	1:G:828:HIS:N	2.53	0.41
3:I:56:GLU:OE1	3:I:59:ASN:ND2	2.54	0.41
1:J:173:GLN:HG3	1:J:670:HIS:CD2	2.55	0.41
1:J:528:MLY:HB2	1:J:529:PRO:HD2	2.03	0.41
1:J:797:PHE:CD2	1:J:798:LEU:HD12	2.55	0.41
1:J:832:MET:SD	2:K:84:PHE:CE2	3.02	0.41
3:L:63:ILE:CG2	3:L:64:THR:H	2.33	0.41
1:M:193:ILE:HD11	1:M:250:ILE:HD12	2.03	0.41
1:M:204:GLU:N	1:M:207:LYS:HE3	2.23	0.41
1:M:320:ILE:O	1:M:320:ILE:CG2	2.68	0.41
1:M:471:ASP:CB	1:M:573:GLY:O	2.68	0.41
1:M:568:PRO:CG	1:M:578:HIS:N	2.84	0.41
1:M:642:LYS:HE2	4:Z:344:SER:HA	1.56	0.41
1:P:62:VAL:HG12	1:P:63:MLY:N	2.35	0.41
1:P:166:MET:CE	1:P:254:PHE:CD2	3.01	0.41
1:P:384:ASP:HA	1:P:394:SER:OG	2.21	0.41
1:P:530:MET:HE3	4:1:354:GLN:CB	2.48	0.41
1:P:541:MET:HG2	4:1:345:ILE:HG23	2.01	0.41
1:P:717:TYR:OH	1:P:760:PHE:HB3	2.21	0.41
4:1:172:PRO:HB2	4:2:191:LYS:NZ	2.35	0.41
4:3:196:ARG:HH21	4:3:249:THR:HG23	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3:217:CYS:C	4:3:218:TYR:HD1	2.23	0.41
4:5:369:ILE:HG23	4:5:370:VAL:N	2.35	0.41
4:6:196:ARG:HH21	4:6:249:THR:HG23	1.85	0.41
4:6:226:GLU:HG3	4:6:255:PHE:CE2	2.56	0.41
4:7:206:ARG:O	4:7:209:VAL:HG12	2.20	0.41
4:7:217:CYS:C	4:7:218:TYR:HD1	2.22	0.41
4:7:288:ASP:OD1	4:9:204:ALA:HA	2.20	0.41
4:7:290:ARG:HH22	4:9:202:THR:CG2	2.17	0.41
4:8:193:LEU:HD11	4:8:250:ILE:HG13	2.02	0.41
4:V:221:LEU:HA	4:V:312:ARG:HG2	2.02	0.41
4:W:227:MET:O	4:W:230:ALA:HB3	2.21	0.41
4:X:369:ILE:HG23	4:X:370:VAL:N	2.35	0.41
4:Y:226:GLU:HG3	4:Y:255:PHE:CE2	2.55	0.41
1:A:320:ILE:O	1:A:320:ILE:CG2	2.68	0.41
1:A:348:MLY:HH12	1:A:348:MLY:HD2	1.82	0.41
1:A:540:CYS:C	4:8:349:LEU:HD21	2.36	0.41
2:B:150:TYR:HB3	2:B:151:LYS:HG3	2.03	0.41
1:D:136:ASN:O	1:D:138:MLY:N	2.54	0.41
1:D:292:MET:HE3	1:D:309:PRO:CA	2.44	0.41
1:D:541:MET:HG2	4:9:345:ILE:HG23	2.01	0.41
1:D:665:ARG:C	1:D:667:THR:N	2.74	0.41
1:D:692:LEU:HD23	1:D:692:LEU:HA	1.84	0.41
1:G:322:VAL:HG12	1:G:325:ILE:HG13	2.03	0.41
1:G:411:GLU:HB2	1:G:412:ALA:H	1.72	0.41
1:G:539:GLU:OE2	1:G:553:MLY:HD3	2.20	0.41
1:G:725:ARG:HA	1:G:732:ILE:CG2	2.50	0.41
2:H:112:ILE:O	2:H:148:VAL:N	2.50	0.41
1:J:217:THR:CA	1:J:221:GLN:HE21	2.33	0.41
1:J:335:ASP:O	1:J:338:ILE:HB	2.20	0.41
1:J:436:MLY:CE	1:J:626:TYR:CE1	2.99	0.41
1:J:485:GLU:OE2	1:J:584:TYR:N	2.50	0.41
1:J:536:LEU:HD12	1:J:536:LEU:HA	1.69	0.41
1:J:795:ARG:CA	3:L:35:ARG:NH2	2.81	0.41
1:J:799:MET:CE	3:L:32:ASP:CB	2.86	0.41
1:M:536:LEU:HA	1:M:536:LEU:HD12	1.69	0.41
1:M:641:LYS:CE	1:M:647:GLN:CB	2.75	0.41
1:M:792:ALA:HB1	3:O:42:THR:N	2.36	0.41
3:O:56:GLU:OE1	3:O:59:ASN:ND2	2.54	0.41
1:P:123:CYS:HB2	1:P:158:ILE:HD13	2.00	0.41
1:P:136:ASN:O	1:P:138:MLY:N	2.54	0.41
1:P:166:MET:CE	1:P:254:PHE:HB2	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:195:TYR:CE2	1:P:199:ILE:HD13	2.55	0.41
1:P:401:LEU:HD12	1:P:401:LEU:HA	1.97	0.41
1:P:798:LEU:CD2	3:R:126:LEU:CD1	2.90	0.41
4:2:226:GLU:HG3	4:2:255:PHE:CE2	2.55	0.41
4:2:322:PRO:HB3	4:4:244:ASP:HB3	1.77	0.41
4:2:369:ILE:HG23	4:2:370:VAL:N	2.35	0.41
4:3:369:ILE:HG23	4:3:370:VAL:N	2.35	0.41
4:7:32:PRO:HB2	4:7:34:ILE:CD1	2.51	0.41
4:7:369:ILE:HG23	4:7:370:VAL:N	2.35	0.41
4:8:222:ASP:OD1	4:8:224:GLU:HB3	2.19	0.41
4:9:32:PRO:HB2	4:9:34:ILE:CD1	2.51	0.41
4:9:227:MET:O	4:9:230:ALA:HB3	2.21	0.41
4:9:369:ILE:HG23	4:9:370:VAL:N	2.35	0.41
4:V:222:ASP:OD1	4:V:224:GLU:HB3	2.19	0.41
4:W:226:GLU:HG3	4:W:255:PHE:CE2	2.55	0.41
1:A:193:ILE:CD1	1:A:250:ILE:HD13	2.51	0.41
1:A:217:THR:CA	1:A:221:GLN:HE21	2.33	0.41
1:A:296:MLY:HH11	1:A:348:MLY:CH2	2.48	0.41
1:A:330:GLU:OE1	1:A:330:GLU:HA	2.20	0.41
1:A:541:MET:HG2	4:8:345:ILE:HG22	2.00	0.41
1:A:556:ASP:OD1	4:V:50:LYS:CG	2.69	0.41
3:C:11:LYS:HE2	3:C:11:LYS:HB3	1.83	0.41
1:D:174:SER:HA	1:D:460:GLY:O	2.20	0.41
1:D:295:MLY:CG	1:D:332:MET:HE1	2.49	0.41
1:D:536:LEU:HD12	1:D:536:LEU:HA	1.69	0.41
1:D:568:PRO:CG	1:D:578:HIS:N	2.83	0.41
1:G:322:VAL:HB	1:G:325:ILE:HD12	2.02	0.41
1:G:636:LYS:CB	4:V:334:GLU:OE1	2.68	0.41
1:G:772:LEU:HA	1:G:772:LEU:HD12	1.82	0.41
1:J:129:TYR:HD1	1:J:129:TYR:HA	1.65	0.41
1:J:136:ASN:O	1:J:138:MLY:N	2.54	0.41
1:J:303:LEU:O	1:J:304:LEU:HB2	2.21	0.41
1:J:553:MLY:CE	4:Y:45:VAL:HG11	2.32	0.41
1:M:87:MLY:HH12	1:M:87:MLY:HD3	1.61	0.41
1:M:193:ILE:CD1	1:M:250:ILE:HD13	2.51	0.41
1:M:346:ASP:O	1:M:350:ALA:N	2.46	0.41
1:M:775:LEU:HD12	1:M:775:LEU:HA	1.71	0.41
1:M:792:ALA:CB	3:O:42:THR:CA	2.98	0.41
1:M:842:LEU:N	1:M:842:LEU:CD1	2.83	0.41
1:P:60:VAL:O	1:P:72:VAL:N	2.51	0.41
1:P:330:GLU:HG2	1:P:330:GLU:H	1.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:657:LEU:HD12	1:P:657:LEU:O	2.21	0.41
4:1:32:PRO:HB2	4:1:34:ILE:CD1	2.51	0.41
4:4:369:ILE:HG23	4:4:370:VAL:N	2.35	0.41
4:5:221:LEU:HA	4:5:312:ARG:HG2	2.02	0.41
4:6:32:PRO:HB2	4:6:34:ILE:CD1	2.51	0.41
4:7:222:ASP:OD1	4:7:224:GLU:HB3	2.19	0.41
4:8:196:ARG:HH21	4:8:249:THR:HG23	1.85	0.41
4:8:226:GLU:HG3	4:8:255:PHE:CE2	2.55	0.41
4:V:196:ARG:HH21	4:V:249:THR:HG23	1.85	0.41
4:V:226:GLU:HG3	4:V:255:PHE:CE2	2.55	0.41
4:Z:227:MET:O	4:Z:230:ALA:HB3	2.21	0.41
1:A:195:TYR:CE2	1:A:199:ILE:HD13	2.55	0.41
1:A:295:MLY:CG	1:A:332:MET:HE1	2.47	0.41
1:D:193:ILE:CD1	1:D:250:ILE:HD13	2.51	0.41
1:D:369:MLY:HH22	1:D:369:MLY:HD3	1.79	0.41
1:G:135:TYR:CD2	1:G:191:ARG:HD3	2.55	0.41
1:G:534:SER:CB	4:V:351:THR:HA	2.50	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG23	2.01	0.41
1:G:724:TYR:HB3	1:G:727:LEU:CD1	2.48	0.41
1:G:754:ASP:C	1:G:776:GLU:OE2	2.58	0.41
1:J:38:VAL:HG13	1:J:39:PHE:N	2.35	0.41
1:J:384:ASP:HA	1:J:394:SER:OG	2.21	0.41
1:J:798:LEU:CD1	3:L:126:LEU:HD13	2.26	0.41
1:M:610:LEU:N	1:M:610:LEU:CD1	2.84	0.41
1:M:753:VAL:O	1:M:755:HIS:ND1	2.54	0.41
3:O:25:ILE:O	3:O:63:ILE:CB	2.66	0.41
1:P:185:LYS:H	1:P:185:LYS:HG3	1.63	0.41
1:P:530:MET:CB	4:1:354:GLN:CB	2.95	0.41
1:P:540:CYS:C	4:1:349:LEU:HD21	2.36	0.41
1:P:793:ARG:O	1:P:797:PHE:N	2.39	0.41
1:P:806:MET:HB2	1:P:807:VAL:H	1.20	0.41
4:2:144:ALA:HB2	4:2:342:GLY:CA	2.51	0.41
4:4:32:PRO:HB2	4:4:34:ILE:CD1	2.51	0.41
4:4:227:MET:O	4:4:230:ALA:HB3	2.21	0.41
4:5:226:GLU:HG3	4:5:255:PHE:CE2	2.55	0.41
4:6:227:MET:O	4:6:230:ALA:HB3	2.21	0.41
4:7:324:THR:N	4:9:245:GLY:CA	2.69	0.41
4:8:32:PRO:HB2	4:8:34:ILE:CD1	2.51	0.41
4:W:32:PRO:HB2	4:W:34:ILE:CD1	2.51	0.41
4:W:144:ALA:HB2	4:W:342:GLY:CA	2.51	0.41
4:Y:32:PRO:HB2	4:Y:34:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:149:GLN:CB	1:A:719:ASP:CA	2.79	0.41
1:A:201:ALA:O	1:A:202:SER:OG	2.36	0.41
1:A:322:VAL:HG12	1:A:325:ILE:HG13	2.03	0.41
1:A:384:ASP:HA	1:A:394:SER:OG	2.21	0.41
1:A:629:GLU:HB3	1:A:643:GLY:C	2.41	0.41
1:A:812:SER:O	1:A:816:ILE:HG13	2.21	0.41
1:D:62:VAL:O	1:D:69:THR:HA	2.20	0.41
1:D:95:THR:HG1	1:D:771:LEU:H	1.66	0.41
1:D:135:TYR:HD2	1:D:191:ARG:CG	2.33	0.41
1:D:193:ILE:HD11	1:D:250:ILE:HD12	2.03	0.41
1:D:533:PHE:HD1	1:D:533:PHE:HA	1.78	0.41
1:D:556:ASP:OD1	4:W:50:LYS:CG	2.69	0.41
1:D:798:LEU:CD2	3:F:126:LEU:HD11	2.51	0.41
1:D:823:PHE:CE1	2:E:161:GLU:N	2.89	0.41
1:G:149:GLN:HE21	1:G:149:GLN:HB2	1.71	0.41
1:G:443:ILE:HG22	1:G:444:ARG:N	2.29	0.41
1:G:717:TYR:OH	1:G:760:PHE:HB3	2.21	0.41
1:G:834:LEU:HD22	2:H:34:ILE:HD13	2.01	0.41
3:I:95:ASP:OD1	3:I:139:TYR:HE1	2.04	0.41
1:J:149:GLN:HE21	1:J:149:GLN:HB2	1.71	0.41
1:J:193:ILE:CD1	1:J:250:ILE:HD13	2.51	0.41
1:J:541:MET:HG2	4:W:345:ILE:HG23	2.01	0.41
1:J:553:MLY:HH13	4:Y:45:VAL:HG11	2.02	0.41
1:J:797:PHE:CE2	3:L:126:LEU:CD2	2.96	0.41
2:K:113:LYS:O	2:K:147:ASN:HB2	2.20	0.41
3:L:56:GLU:OE1	3:L:59:ASN:ND2	2.54	0.41
3:L:95:ASP:OD1	3:L:139:TYR:HE1	2.03	0.41
1:M:295:MLY:CE	1:M:332:MET:HE1	2.51	0.41
1:M:829:TRP:O	1:M:832:MET:N	2.50	0.41
1:P:32:PHE:HD2	1:P:777:GLU:OE2	2.04	0.41
1:P:303:LEU:O	1:P:304:LEU:HB2	2.21	0.41
1:P:335:ASP:O	1:P:338:ILE:HB	2.20	0.41
1:P:449:LEU:N	1:P:449:LEU:CD1	2.81	0.41
2:Q:112:ILE:O	2:Q:148:VAL:N	2.50	0.41
4:1:221:LEU:HA	4:1:312:ARG:HG2	2.02	0.41
4:1:256:ARG:HH11	4:1:256:ARG:HD2	1.78	0.41
4:4:222:ASP:OD1	4:4:224:GLU:HB3	2.19	0.41
4:5:32:PRO:HB2	4:5:34:ILE:CD1	2.51	0.41
4:7:287:ILE:CB	4:9:204:ALA:H	2.13	0.41
4:9:315:LYS:HD2	4:9:315:LYS:HA	1.92	0.41
4:V:144:ALA:HB2	4:V:342:GLY:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:287:ILE:HG13	4:X:202:THR:HG23	1.65	0.41
4:X:226:GLU:HG3	4:X:255:PHE:CE2	2.55	0.41
4:Y:369:ILE:HG23	4:Y:370:VAL:N	2.35	0.41
1:A:48:VAL:CG2	1:A:49:MLY:N	2.84	0.41
1:A:49:MLY:HH23	1:A:80:MET:CE	2.51	0.41
1:A:62:VAL:HG12	1:A:63:MLY:N	2.35	0.41
1:A:129:TYR:HD1	1:A:129:TYR:HA	1.65	0.41
1:A:193:ILE:HD11	1:A:250:ILE:HD12	2.03	0.41
1:A:226:ASN:HB2	1:A:227:PRO:CD	2.47	0.41
1:A:408:VAL:HA	1:A:636:LYS:HG2	1.14	0.41
1:A:528:MLY:HB2	1:A:529:PRO:HD2	2.03	0.41
1:A:657:LEU:O	1:A:657:LEU:HD12	2.21	0.41
1:A:711:PHE:O	1:A:714:ARG:NH2	2.54	0.41
1:A:818:TYR:CD2	2:B:89:LYS:C	2.95	0.41
1:D:49:MLY:HH23	1:D:80:MET:CE	2.51	0.41
1:D:56:GLU:HB2	1:D:59:MLY:CB	2.30	0.41
1:D:226:ASN:HB2	1:D:227:PRO:CD	2.47	0.41
1:D:303:LEU:O	1:D:304:LEU:HB2	2.21	0.41
1:D:356:GLY:HA2	1:D:359:MET:HG3	2.02	0.41
1:D:485:GLU:OE1	1:D:583:HIS:HB3	2.21	0.41
1:D:753:VAL:O	1:D:755:HIS:ND1	2.54	0.41
1:D:795:ARG:CG	3:F:118:MET:HE3	2.44	0.41
1:D:812:SER:O	1:D:816:ILE:HG13	2.21	0.41
1:G:49:MLY:HH23	1:G:80:MET:CE	2.51	0.41
1:G:51:THR:O	1:G:62:VAL:CG1	2.64	0.41
1:G:91:MET:CE	1:G:119:SER:HB2	2.47	0.41
1:G:144:ARG:HA	1:G:144:ARG:HD2	1.78	0.41
1:G:193:ILE:CD1	1:G:250:ILE:HD13	2.51	0.41
1:G:217:THR:CA	1:G:221:GLN:HE21	2.33	0.41
1:G:398:LEU:HA	1:G:398:LEU:HD12	1.84	0.41
1:G:506:GLU:CG	1:G:760:PHE:O	2.63	0.41
1:G:544:LYS:HD2	4:V:147:ARG:CB	2.36	0.41
1:G:610:LEU:N	1:G:610:LEU:CD1	2.84	0.41
1:G:706:ILE:HD13	1:G:706:ILE:HG21	1.89	0.41
1:G:795:ARG:C	3:I:35:ARG:HH22	2.19	0.41
1:J:25:ILE:HG23	1:J:29:ASN:HD22	1.85	0.41
1:J:193:ILE:HD11	1:J:250:ILE:HD12	2.03	0.41
1:J:356:GLY:HA2	1:J:359:MET:HG3	2.02	0.41
1:J:369:MLY:HH22	1:J:369:MLY:HD3	1.79	0.41
1:J:493:HIS:O	1:J:496:PHE:N	2.54	0.41
1:J:496:PHE:CG	1:J:514:ASP:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:690:LEU:O	1:J:694:GLN:HG3	2.20	0.41
1:J:739:ASP:OD1	1:J:739:ASP:C	2.58	0.41
1:M:135:TYR:CD2	1:M:191:ARG:HD3	2.55	0.41
1:M:322:VAL:HG12	1:M:325:ILE:HG13	2.03	0.41
1:M:356:GLY:HA2	1:M:359:MET:HG3	2.02	0.41
1:M:384:ASP:HA	1:M:394:SER:OG	2.20	0.41
1:M:508:ILE:HD13	1:M:508:ILE:HG21	1.88	0.41
1:M:629:GLU:HB3	1:M:643:GLY:C	2.41	0.41
1:M:776:GLU:O	1:M:780:ASP:N	2.45	0.41
1:M:806:MET:HA	1:M:809:ARG:HB2	2.03	0.41
1:M:821:ARG:HH22	2:N:127:ARG:CD	2.27	0.41
2:N:113:LYS:O	2:N:147:ASN:HB2	2.20	0.41
1:P:72:VAL:O	1:P:73:LYS:O	2.39	0.41
1:P:193:ILE:HD11	1:P:250:ILE:HD12	2.03	0.41
1:P:202:SER:HB2	1:P:207:LYS:HZ1	1.85	0.41
1:P:369:MLY:HH22	1:P:369:MLY:HD3	1.79	0.41
1:P:398:LEU:HA	1:P:398:LEU:HD12	1.83	0.41
1:P:541:MET:CE	4:1:346:LEU:HD12	2.47	0.41
1:P:805:ALA:O	1:P:809:ARG:CB	2.69	0.41
1:P:812:SER:O	1:P:816:ILE:HG13	2.21	0.41
4:2:148:THR:OG1	4:4:45:VAL:HG23	2.21	0.41
4:3:144:ALA:HB2	4:3:342:GLY:CA	2.51	0.41
4:3:226:GLU:HG3	4:3:255:PHE:CE2	2.56	0.41
4:4:226:GLU:HG3	4:4:255:PHE:CE2	2.55	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
4:8:288:ASP:OD1	4:V:204:ALA:HA	2.20	0.41
4:9:144:ALA:HB2	4:9:342:GLY:CA	2.51	0.41
4:W:196:ARG:HH21	4:W:249:THR:HG23	1.85	0.41
4:X:292:ASP:N	4:Z:244:ASP:HB2	2.35	0.41
4:Y:144:ALA:HB2	4:Y:342:GLY:CA	2.51	0.41
4:Z:32:PRO:HB2	4:Z:34:ILE:CD1	2.51	0.41
4:Z:144:ALA:HB2	4:Z:342:GLY:CA	2.51	0.41
1:A:534:SER:HB2	4:8:354:GLN:HE22	1.57	0.41
1:A:568:PRO:CG	1:A:578:HIS:N	2.84	0.41
1:A:762:HIS:CD2	1:A:762:HIS:N	2.78	0.41
3:C:25:ILE:O	3:C:63:ILE:CB	2.66	0.41
3:C:56:GLU:OE1	3:C:59:ASN:ND2	2.54	0.41
3:C:95:ASP:OD1	3:C:139:TYR:HE1	2.03	0.41
1:D:322:VAL:HB	1:D:325:ILE:CG1	2.51	0.41
1:D:496:PHE:CG	1:D:514:ASP:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:823:PHE:CZ	2:E:156:VAL:HG12	2.55	0.41
1:G:541:MET:HG2	4:V:345:ILE:HG22	2.01	0.41
1:G:642:LYS:HB3	4:V:24:ASP:HB2	1.38	0.41
1:G:796:GLY:CA	3:I:35:ARG:CD	2.75	0.41
1:G:812:SER:O	1:G:816:ILE:HG13	2.21	0.41
1:J:88:ILE:HG21	1:J:88:ILE:HD12	1.78	0.41
1:J:485:GLU:OE1	1:J:583:HIS:HB3	2.21	0.41
1:J:541:MET:N	4:W:349:LEU:CD2	2.69	0.41
1:J:568:PRO:CG	1:J:578:HIS:N	2.83	0.41
1:M:88:ILE:HG22	1:M:90:ASP:C	2.42	0.41
1:M:657:LEU:HD12	1:M:657:LEU:O	2.21	0.41
1:M:795:ARG:HG2	3:O:118:MET:HE3	2.01	0.41
3:O:11:LYS:HE2	3:O:11:LYS:HB3	1.83	0.41
1:P:174:SER:HA	1:P:460:GLY:O	2.20	0.41
1:P:356:GLY:HA2	1:P:359:MET:HG3	2.02	0.41
1:P:436:MLY:CE	1:P:626:TYR:CE1	2.99	0.41
1:P:544:LYS:N	4:1:146:GLY:O	2.54	0.41
1:P:610:LEU:N	1:P:610:LEU:CD1	2.84	0.41
1:P:775:LEU:HD12	1:P:775:LEU:HA	1.71	0.41
2:Q:137:TRP:CA	2:Q:145:ALA:HB2	2.37	0.41
4:1:219:VAL:HG22	4:1:258:PRO:CB	2.52	0.41
4:2:324:THR:H	4:4:244:ASP:HA	1.86	0.41
4:3:227:MET:O	4:3:230:ALA:HB3	2.21	0.41
4:4:144:ALA:HB2	4:4:342:GLY:CA	2.51	0.41
4:4:238:LYS:HZ2	4:4:239:SER:N	2.19	0.41
4:4:288:ASP:CA	4:6:203:THR:CG2	2.99	0.41
4:5:219:VAL:HG22	4:5:258:PRO:CB	2.51	0.41
4:7:144:ALA:HB2	4:7:342:GLY:CA	2.51	0.41
4:7:315:LYS:HD2	4:7:315:LYS:HA	1.92	0.41
4:V:32:PRO:HB2	4:V:34:ILE:CD1	2.51	0.41
4:X:144:ALA:HB2	4:X:342:GLY:CA	2.51	0.41
1:A:436:MLY:CE	1:A:626:TYR:CE1	2.99	0.40
1:A:554:LEU:N	4:V:46:GLY:O	2.52	0.40
1:A:806:MET:CE	3:C:17:PHE:HE2	2.34	0.40
1:A:836:PHE:HZ	2:B:159:HIS:CA	2.17	0.40
1:D:72:VAL:O	1:D:73:LYS:O	2.40	0.40
1:D:436:MLY:CE	1:D:626:TYR:CE1	2.99	0.40
1:D:471:ASP:CB	1:D:573:GLY:O	2.68	0.40
1:D:551:MLY:C	4:W:47:MET:HA	2.48	0.40
3:F:108:ARG:HH21	3:F:108:ARG:HD3	1.77	0.40
1:G:47:PHE:HE1	1:G:78:PHE:CE1	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:60:VAL:O	1:G:72:VAL:N	2.51	0.40
1:G:172:ASN:OD1	1:G:457:TYR:HA	2.21	0.40
1:G:193:ILE:HD11	1:G:250:ILE:HD12	2.03	0.40
1:G:407:GLY:HA2	1:G:411:GLU:O	2.21	0.40
1:G:493:HIS:O	1:G:496:PHE:N	2.54	0.40
1:G:641:LYS:HG3	1:G:647:GLN:HG2	1.72	0.40
1:G:818:TYR:HE1	2:H:127:ARG:NH2	1.98	0.40
2:H:111:SER:OG	2:H:148:VAL:CA	2.69	0.40
1:J:56:GLU:HB2	1:J:59:MLY:CB	2.30	0.40
1:J:149:GLN:OE1	1:J:763:THR:CG2	2.49	0.40
1:J:172:ASN:OD1	1:J:457:TYR:HA	2.21	0.40
1:J:195:TYR:CE2	1:J:199:ILE:HD13	2.55	0.40
1:J:544:LYS:N	4:W:146:GLY:O	2.55	0.40
1:J:610:LEU:N	1:J:610:LEU:CD1	2.84	0.40
1:J:657:LEU:HD12	1:J:657:LEU:O	2.21	0.40
1:J:744:SER:O	1:J:748:LEU:HD12	2.20	0.40
1:M:47:PHE:HE1	1:M:78:PHE:CE1	2.40	0.40
1:M:544:LYS:N	4:Z:146:GLY:O	2.54	0.40
1:M:642:LYS:HB3	4:Z:24:ASP:HB2	1.37	0.40
2:N:149:ASP:O	2:N:150:TYR:CD1	2.74	0.40
1:P:49:MLY:HH23	1:P:80:MET:CE	2.51	0.40
1:P:471:ASP:CB	1:P:573:GLY:O	2.68	0.40
1:P:665:ARG:C	1:P:667:THR:N	2.74	0.40
1:P:673:ARG:HA	1:P:673:ARG:HD2	1.79	0.40
1:P:783:LEU:CB	1:P:786:ILE:CD1	2.92	0.40
1:P:795:ARG:CZ	3:R:43:ASN:OD1	2.63	0.40
1:P:834:LEU:CD1	2:Q:51:PHE:CD1	2.99	0.40
4:2:196:ARG:HH21	4:2:249:THR:HG23	1.85	0.40
4:3:32:PRO:HB2	4:3:34:ILE:CD1	2.51	0.40
4:3:256:ARG:HH11	4:3:256:ARG:HD2	1.78	0.40
4:3:290:ARG:CZ	4:5:202:THR:HG22	2.37	0.40
4:4:171:LEU:HA	4:4:172:PRO:HD2	1.84	0.40
4:4:287:ILE:HG13	4:6:202:THR:HG22	2.03	0.40
4:6:219:VAL:HG22	4:6:258:PRO:CB	2.52	0.40
4:8:144:ALA:HB2	4:8:342:GLY:CA	2.51	0.40
4:8:227:MET:O	4:8:230:ALA:HB3	2.21	0.40
4:9:219:VAL:HG22	4:9:258:PRO:CB	2.51	0.40
4:V:120:THR:HG21	4:V:370:VAL:CG1	2.52	0.40
4:W:219:VAL:HG22	4:W:258:PRO:CB	2.51	0.40
4:X:196:ARG:HH21	4:X:249:THR:HG23	1.85	0.40
4:Y:219:VAL:HG22	4:Y:258:PRO:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:221:LEU:HA	4:Y:312:ARG:HG2	2.02	0.40
4:Y:227:MET:O	4:Y:230:ALA:HB3	2.21	0.40
1:A:93:MET:CE	1:A:716:LEU:N	2.84	0.40
1:D:94:MET:HE1	1:D:101:ALA:CB	2.50	0.40
1:D:507:GLY:HA3	1:D:762:HIS:CA	2.51	0.40
1:D:641:LYS:CE	1:D:647:GLN:CB	2.74	0.40
1:D:657:LEU:HD12	1:D:657:LEU:O	2.21	0.40
1:G:204:GLU:N	1:G:207:LYS:HE3	2.23	0.40
1:G:310:TYR:OH	1:G:320:ILE:HD11	2.21	0.40
1:G:356:GLY:HA2	1:G:359:MET:HG3	2.02	0.40
1:G:664:LEU:HD12	1:G:664:LEU:HA	1.53	0.40
1:G:753:VAL:O	1:G:755:HIS:ND1	2.54	0.40
1:J:648:THR:HB	4:W:350:SER:OG	2.21	0.40
1:J:710:GLY:C	1:J:772:LEU:HD23	2.42	0.40
2:K:150:TYR:HB3	2:K:151:LYS:HG3	2.03	0.40
1:M:38:VAL:HG13	1:M:39:PHE:N	2.35	0.40
1:M:60:VAL:O	1:M:72:VAL:N	2.51	0.40
1:M:322:VAL:HB	1:M:325:ILE:HD12	2.02	0.40
1:M:493:HIS:O	1:M:496:PHE:N	2.54	0.40
1:M:539:GLU:OE2	1:M:553:MLY:HD3	2.20	0.40
1:M:544:LYS:HD2	4:Z:147:ARG:CB	2.36	0.40
1:M:717:TYR:OH	1:M:760:PHE:HB3	2.20	0.40
2:N:149:ASP:OD2	2:N:150:TYR:CA	2.65	0.40
1:P:204:GLU:N	1:P:207:LYS:HE3	2.23	0.40
1:P:215:GLN:H	1:P:340:ILE:CD1	2.20	0.40
1:P:568:PRO:CG	1:P:578:HIS:N	2.84	0.40
1:P:629:GLU:HB3	1:P:643:GLY:C	2.41	0.40
4:1:144:ALA:HB2	4:1:342:GLY:CA	2.51	0.40
4:2:32:PRO:HB2	4:2:34:ILE:CD1	2.51	0.40
4:2:227:MET:O	4:2:230:ALA:HB3	2.21	0.40
4:3:120:THR:HG21	4:3:370:VAL:CG1	2.52	0.40
4:4:322:PRO:HB2	4:6:244:ASP:HB2	1.83	0.40
4:5:120:THR:HG21	4:5:370:VAL:CG1	2.52	0.40
4:9:288:ASP:OD1	4:W:204:ALA:HA	2.20	0.40
4:W:221:LEU:HA	4:W:312:ARG:HG2	2.02	0.40
4:X:32:PRO:HB2	4:X:34:ILE:CD1	2.51	0.40
4:X:120:THR:HG21	4:X:370:VAL:CG1	2.52	0.40
1:A:47:PHE:HE1	1:A:78:PHE:CE1	2.40	0.40
1:A:166:MET:CE	1:A:254:PHE:HD2	2.35	0.40
1:A:308:ASN:HA	1:A:309:PRO:HD2	1.88	0.40
1:A:496:PHE:CG	1:A:514:ASP:HA	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:543:PRO:CG	4:8:146:GLY:O	2.67	0.40
1:A:599:ASN:OD1	1:A:649:VAL:C	2.60	0.40
1:A:813:ILE:HG12	2:B:128:PHE:CZ	2.56	0.40
1:D:214:MET:CA	1:D:340:ILE:HD11	2.45	0.40
1:D:242:ASN:OD1	1:D:286:HIS:NE2	2.49	0.40
1:D:664:LEU:HA	1:D:664:LEU:HD12	1.53	0.40
1:G:28:GLN:CG	1:G:723:ARG:NH1	2.52	0.40
1:G:97:LEU:HD21	1:G:712:PRO:HB2	1.96	0.40
1:G:237:THR:CG2	1:G:238:VAL:N	2.84	0.40
1:G:295:MLY:HG3	1:G:332:MET:HE2	2.02	0.40
1:G:384:ASP:HA	1:G:394:SER:OG	2.21	0.40
1:G:496:PHE:CG	1:G:514:ASP:HA	2.56	0.40
1:G:568:PRO:CG	1:G:578:HIS:N	2.84	0.40
1:G:599:ASN:OD1	1:G:649:VAL:C	2.60	0.40
1:G:629:GLU:HB3	1:G:643:GLY:C	2.41	0.40
1:G:723:ARG:NH1	1:G:723:ARG:CG	2.79	0.40
1:J:279:LEU:CB	1:J:280:PRO:HD2	2.49	0.40
1:J:292:MET:HE3	1:J:309:PRO:CA	2.50	0.40
1:J:305:ILE:HG22	1:J:312:TYR:OH	2.21	0.40
1:J:389:LEU:HD12	1:J:389:LEU:HA	1.98	0.40
1:J:443:ILE:HG22	1:J:444:ARG:N	2.29	0.40
1:J:530:MET:CE	4:W:354:GLN:HG3	2.35	0.40
1:J:580:SER:O	1:J:581:LEU:HD12	2.22	0.40
1:M:107:MLY:CB	1:M:686:MET:HE2	2.44	0.40
1:M:401:LEU:HD12	1:M:401:LEU:HA	1.98	0.40
1:M:791:GLN:OE1	3:O:116:GLU:CG	2.44	0.40
1:P:193:ILE:CD1	1:P:250:ILE:HD13	2.51	0.40
1:P:407:GLY:HA2	1:P:411:GLU:O	2.21	0.40
1:P:713:SER:C	1:P:772:LEU:HD23	2.41	0.40
1:P:836:PHE:CD2	2:Q:160:GLY:CA	3.04	0.40
2:Q:141:PRO:HB3	2:Q:142:PRO:CD	2.49	0.40
3:R:11:LYS:HE2	3:R:11:LYS:HB3	1.83	0.40
3:R:56:GLU:OE1	3:R:59:ASN:ND2	2.54	0.40
4:2:250:ILE:HG22	4:2:254:ARG:HB2	2.04	0.40
4:4:324:THR:CG2	4:6:244:ASP:O	2.68	0.40
4:4:324:THR:N	4:6:244:ASP:HA	2.22	0.40
4:6:221:LEU:HA	4:6:312:ARG:HG2	2.02	0.40
4:9:221:LEU:HA	4:9:312:ARG:HG2	2.02	0.40
4:X:221:LEU:HA	4:X:312:ARG:HG2	2.02	0.40
4:X:288:ASP:OD1	4:Z:242:LEU:CD2	2.70	0.40
4:X:291:LYS:HG2	4:Z:244:ASP:HB2	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:250:ILE:HG22	4:Y:254:ARG:HB2	2.04	0.40
1:A:149:GLN:CG	1:A:719:ASP:CB	2.92	0.40
1:A:172:ASN:OD1	1:A:457:TYR:HA	2.21	0.40
1:A:303:LEU:O	1:A:389:LEU:HD21	2.22	0.40
1:A:485:GLU:OE1	1:A:583:HIS:HB3	2.21	0.40
1:A:544:LYS:HD2	4:8:147:ARG:CB	2.36	0.40
1:A:544:LYS:N	4:8:146:GLY:O	2.55	0.40
1:D:172:ASN:OD1	1:D:457:TYR:HA	2.21	0.40
1:D:407:GLY:HA2	1:D:411:GLU:O	2.21	0.40
3:F:96:LYS:H	3:F:96:LYS:HG3	1.66	0.40
1:G:435:GLU:O	1:G:438:PHE:N	2.55	0.40
1:G:485:GLU:OE1	1:G:583:HIS:HB3	2.21	0.40
1:G:553:MLY:HA	4:X:45:VAL:O	2.21	0.40
3:I:49:ILE:HD13	3:I:49:ILE:HG21	1.89	0.40
1:J:135:TYR:HD2	1:J:191:ARG:CG	2.33	0.40
1:J:166:MET:CE	1:J:254:PHE:HB2	2.47	0.40
1:J:174:SER:HA	1:J:460:GLY:O	2.20	0.40
1:J:271:GLU:OE1	1:J:274:ARG:NH1	2.53	0.40
1:J:665:ARG:C	1:J:667:THR:N	2.74	0.40
1:J:768:MLY:HB2	1:J:773:GLY:HA3	1.55	0.40
3:L:48:LYS:HA	3:L:48:LYS:HD3	1.17	0.40
1:M:172:ASN:OD1	1:M:457:TYR:HA	2.22	0.40
1:M:303:LEU:O	1:M:304:LEU:HB2	2.21	0.40
1:M:464:ILE:HD13	1:M:464:ILE:HG21	1.70	0.40
1:P:29:ASN:HB3	1:P:784:ALA:CA	2.52	0.40
1:P:193:ILE:HD13	1:P:252:ILE:HD11	2.04	0.40
1:P:330:GLU:OE1	1:P:330:GLU:HA	2.20	0.40
1:P:528:MLY:HB2	1:P:529:PRO:HD2	2.03	0.40
1:P:798:LEU:HD12	1:P:798:LEU:HA	1.36	0.40
1:P:817:GLN:HG3	2:Q:128:PHE:HE1	1.78	0.40
4:1:120:THR:HG21	4:1:370:VAL:CG1	2.52	0.40
4:1:250:ILE:HG22	4:1:254:ARG:HB2	2.04	0.40
4:1:288:ASP:OD1	4:3:62:ARG:HG3	2.22	0.40
4:2:62:ARG:HG2	4:Z:288:ASP:OD1	2.22	0.40
4:7:256:ARG:HH11	4:7:256:ARG:HD2	1.78	0.40
4:8:219:VAL:HG22	4:8:258:PRO:CB	2.51	0.40
4:8:287:ILE:N	4:V:202:THR:CG2	2.77	0.40
4:V:219:VAL:HG22	4:V:258:PRO:CB	2.51	0.40
4:V:227:MET:O	4:V:230:ALA:HB3	2.21	0.40
4:W:120:THR:HG21	4:W:370:VAL:CG1	2.52	0.40
4:X:227:MET:O	4:X:230:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:120:THR:HG21	4:Y:370:VAL:CG1	2.52	0.40
4:Z:75:ILE:HD12	4:Z:75:ILE:HG23	1.92	0.40
4:Z:196:ARG:HH21	4:Z:249:THR:HG23	1.85	0.40
1:A:89:GLU:HB3	1:A:153:PRO:HG3	2.03	0.40
1:A:400:ALA:CB	1:A:606:THR:CG2	3.00	0.40
1:A:665:ARG:C	1:A:667:THR:N	2.74	0.40
1:A:752:ASP:CB	1:A:782:MLY:HD3	2.51	0.40
1:A:754:ASP:H	1:A:775:LEU:CD1	2.33	0.40
1:D:217:THR:CA	1:D:221:GLN:HE21	2.33	0.40
1:D:271:GLU:OE1	1:D:274:ARG:NH1	2.53	0.40
1:D:400:ALA:CB	1:D:606:THR:CG2	3.00	0.40
1:D:599:ASN:OD1	1:D:649:VAL:C	2.60	0.40
1:D:735:GLY:HA3	1:D:743:ALA:HA	2.01	0.40
1:D:818:TYR:HB2	2:E:90:GLY:HA3	0.49	0.40
1:D:831:TRP:HZ3	2:E:50:THR:HG21	1.86	0.40
2:E:140:PHE:HB3	2:E:144:VAL:HG11	2.03	0.40
2:E:150:TYR:HB3	2:E:151:LYS:HG3	2.03	0.40
1:G:303:LEU:O	1:G:389:LEU:HD21	2.22	0.40
1:G:308:ASN:HA	1:G:309:PRO:HD2	1.88	0.40
1:G:480:ILE:CG2	1:G:481:ASN:N	2.74	0.40
1:G:553:MLY:C	4:X:46:GLY:HA3	2.50	0.40
1:G:735:GLY:HA3	1:G:743:ALA:HA	2.01	0.40
2:H:150:TYR:HB3	2:H:151:LYS:HG3	2.03	0.40
1:J:49:MLY:HH23	1:J:80:MET:CE	2.51	0.40
1:J:332:MET:H	1:J:332:MET:HG2	1.52	0.40
2:K:63:GLU:O	2:K:67:MET:HG3	2.22	0.40
1:M:330:GLU:OE1	1:M:330:GLU:HA	2.20	0.40
1:M:480:ILE:CG2	1:M:481:ASN:N	2.74	0.40
1:M:528:MLY:HB2	1:M:529:PRO:HD2	2.03	0.40
1:M:568:PRO:HG3	1:M:578:HIS:N	2.36	0.40
1:M:798:LEU:HD12	1:M:798:LEU:HA	1.36	0.40
1:M:831:TRP:CH2	2:N:47:LEU:HD23	2.45	0.40
1:P:64:THR:OG1	1:P:68:GLU:HB3	2.22	0.40
1:P:496:PHE:CG	1:P:514:ASP:HA	2.57	0.40
4:7:221:LEU:HA	4:7:312:ARG:HG2	2.02	0.40
4:V:237:GLU:HA	4:V:251:GLY:CA	2.43	0.40
4:V:250:ILE:HG22	4:V:254:ARG:HB2	2.04	0.40
4:X:287:ILE:HG21	4:Z:199:SER:HB3	2.03	0.40
4:Y:265:SER:HG	4:Z:39:ARG:HH21	1.58	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	651 (82%)	112 (14%)	28 (4%)	3	25
1	J	791/840 (94%)	652 (82%)	112 (14%)	27 (3%)	3	26
1	M	791/840 (94%)	651 (82%)	109 (14%)	31 (4%)	3	23
1	P	791/840 (94%)	649 (82%)	110 (14%)	32 (4%)	3	23
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	Q	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	R	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%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	3	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	4	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	5	370/375 (99%)	334 (90%)	30 (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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	8	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	9	370/375 (99%)	334 (90%)	30 (8%)	6 (2%)	9	44
4	V	370/375 (99%)	335 (90%)	29 (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
All	All	11638/12042 (97%)	10140 (87%)	1196 (10%)	302 (3%)	8	31

All (302) 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

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Mol	Chain	Res	Type
1	J	202	SER
1	J	572	LYS
1	J	712	PRO
1	J	729	ALA
1	J	757	GLN
1	J	762	HIS
1	J	785	GLU
2	K	131	GLU
2	K	141	PRO
1	M	73	LYS
1	M	202	SER
1	M	572	LYS
1	M	712	PRO
1	M	729	ALA
1	M	757	GLN
1	M	762	HIS
1	M	786	ILE
1	M	787	ILE
2	N	131	GLU
2	N	141	PRO
1	P	73	LYS
1	P	202	SER
1	P	572	LYS
1	P	712	PRO
1	P	729	ALA
1	P	757	GLN
1	P	762	HIS
1	P	787	ILE
2	Q	131	GLU
2	Q	141	PRO
4	1	246	GLN
4	2	246	GLN
4	3	246	GLN
4	4	246	GLN
4	5	246	GLN
4	6	246	GLN
4	7	246	GLN
4	8	246	GLN
4	9	246	GLN
4	V	246	GLN
4	W	246	GLN
4	X	246	GLN

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Mol	Chain	Res	Type
4	Y	246	GLN
4	Z	246	GLN
1	A	11	GLY
1	A	21	GLU
1	A	219	GLU
1	A	517	MET
1	A	532	ILE
1	A	637	LYS
2	B	130	PRO
2	B	147	ASN
2	B	151	LYS
2	B	161	GLU
1	D	11	GLY
1	D	21	GLU
1	D	219	GLU
1	D	517	MET
1	D	637	LYS
2	E	130	PRO
2	E	147	ASN
2	E	151	LYS
2	E	161	GLU
1	G	11	GLY
1	G	21	GLU
1	G	219	GLU
1	G	517	MET
1	G	532	ILE
1	G	637	LYS
1	G	710	GLY
1	G	785	GLU
2	H	130	PRO
2	H	147	ASN
2	H	151	LYS
1	J	11	GLY
1	J	21	GLU
1	J	219	GLU
1	J	517	MET
1	J	637	LYS
2	K	130	PRO
2	K	147	ASN
2	K	151	LYS
1	M	11	GLY
1	M	21	GLU

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Mol	Chain	Res	Type
1	M	219	GLU
1	M	517	MET
1	M	637	LYS
1	M	769	ALA
2	N	130	PRO
2	N	147	ASN
2	N	151	LYS
2	N	161	GLU
1	P	11	GLY
1	P	21	GLU
1	P	219	GLU
1	P	517	MET
1	P	637	LYS
1	P	786	ILE
2	Q	130	PRO
2	Q	147	ASN
2	Q	151	LYS
2	Q	161	GLU
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	644	SER
1	D	58	GLY
1	D	294	ASN
1	D	532	ILE
1	D	644	SER
1	G	58	GLY
1	G	294	ASN
1	G	644	SER

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Mol	Chain	Res	Type
2	H	161	GLU
1	J	58	GLY
1	J	294	ASN
1	J	532	ILE
1	J	644	SER
2	K	161	GLU
1	M	58	GLY
1	M	294	ASN
1	M	532	ILE
1	M	644	SER
1	P	58	GLY
1	P	294	ASN
1	P	532	ILE
1	P	644	SER
1	P	769	ALA
4	1	233	SER
4	2	233	SER
4	3	233	SER
4	4	233	SER
4	5	233	SER
4	6	233	SER
4	7	233	SER
4	8	233	SER
4	9	233	SER
4	V	233	SER
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	435	GLU
1	G	817	GLN
1	J	435	GLU
1	J	817	GLN
1	M	269	LEU
1	M	435	GLU
1	M	817	GLN
1	P	435	GLU

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Mol	Chain	Res	Type
1	P	770	GLY
1	P	817	GLN
4	1	2	GLU
4	2	2	GLU
4	3	2	GLU
4	3	253	GLU
4	4	2	GLU
4	5	2	GLU
4	6	2	GLU
4	6	253	GLU
4	7	2	GLU
4	8	2	GLU
4	8	253	GLU
4	9	2	GLU
4	9	253	GLU
4	V	2	GLU
4	V	253	GLU
4	W	2	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	578	HIS
2	E	140	PHE
1	G	8	ALA
1	G	79	SER
1	G	269	LEU
1	G	578	HIS
2	H	140	PHE
1	J	8	ALA
1	J	269	LEU
1	J	578	HIS
1	M	8	ALA
1	M	578	HIS
1	M	770	GLY
2	N	140	PHE
1	P	8	ALA

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Mol	Chain	Res	Type
1	P	269	LEU
1	P	578	HIS
1	P	785	GLU
2	Q	140	PHE
4	1	253	GLU
4	2	253	GLU
4	4	253	GLU
4	5	253	GLU
4	7	253	GLU
4	W	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
1	D	79	SER
1	D	199	ILE
1	D	556	ASP
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	140	PHE
2	K	142	PRO
1	M	79	SER
1	M	199	ILE
1	M	556	ASP
1	M	822	SER
2	N	142	PRO
1	P	79	SER
1	P	199	ILE
1	P	556	ASP
1	P	822	SER
2	Q	142	PRO
1	A	840	PRO
1	D	287	ILE
1	D	840	PRO
1	G	840	PRO

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Mol	Chain	Res	Type
1	J	840	PRO
1	M	287	ILE
1	M	840	PRO
1	P	287	ILE
1	P	840	PRO
4	1	242	LEU
4	2	242	LEU
4	3	242	LEU
4	4	242	LEU
4	5	242	LEU
4	6	242	LEU
4	7	242	LEU
4	8	242	LEU
4	9	242	LEU
4	V	242	LEU
4	W	242	LEU
4	X	242	LEU
4	Y	242	LEU
4	Z	242	LEU
1	A	287	ILE
1	G	287	ILE
1	J	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%)	514 (76%)	158 (24%)	1	4
1	G	672/672 (100%)	513 (76%)	159 (24%)	1	4
1	J	672/672 (100%)	514 (76%)	158 (24%)	1	4
1	M	672/672 (100%)	515 (77%)	157 (23%)	1	4
1	P	672/672 (100%)	514 (76%)	158 (24%)	1	4
2	B	120/120 (100%)	119 (99%)	1 (1%)	81	89

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	E	120/120 (100%)	120 (100%)	0	100	100
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	Q	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	R	117/117 (100%)	112 (96%)	5 (4%)	29	53
4	1	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	2	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	3	315/318 (99%)	268 (85%)	47 (15%)	3	15
4	4	315/318 (99%)	269 (85%)	46 (15%)	3	15
4	5	315/318 (99%)	268 (85%)	47 (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%)	269 (85%)	46 (15%)	3	15
4	9	315/318 (99%)	269 (85%)	46 (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%)	268 (85%)	47 (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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	D	20	SER
1	D	22	LYS
1	D	36	SER
1	D	37	SER
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	G	495	MET
1	G	499	GLU
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
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	708	ARG
1	G	713	SER
1	G	714	ARG
1	G	716	LEU
1	G	719	ASP
1	G	722	GLN

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	243	SER
1	J	244	SER
1	J	245	ARG
1	J	251	ARG

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	J	752	ASP
1	J	753	VAL
1	J	754	ASP
1	J	762	HIS
1	J	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
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

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Mol	Chain	Res	Type
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
1	M	173	GLN
1	M	178	THR
1	M	185	LYS
1	M	186	THR
1	M	187	VAL
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
3	O	95	ASP
3	O	96	LYS
1	P	4	ASP
1	P	7	MET
1	P	12	GLU
1	P	15	PRO
1	P	17	LEU
1	P	20	SER
1	P	22	LYS
1	P	36	SER
1	P	37	SER
1	P	46	SER
1	P	61	THR
1	P	69	THR
1	P	70	LEU
1	P	72	VAL
1	P	73	LYS
1	P	75	ASP
1	P	76	GLN
1	P	97	LEU
1	P	106	LEU
1	P	109	ARG
1	P	114	MET
1	P	117	THR

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Mol	Chain	Res	Type
1	P	121	LEU
1	P	126	VAL
1	P	127	ASN
1	P	135	TYR
1	P	136	ASN
1	P	146	LYS
1	P	149	GLN
1	P	155	ILE
1	P	157	SER
1	P	158	ILE
1	P	159	SER
1	P	165	PHE
1	P	167	LEU
1	P	169	ASP
1	P	173	GLN
1	P	178	THR
1	P	185	LYS
1	P	186	THR
1	P	187	VAL
1	P	189	THR
1	P	191	ARG
1	P	193	ILE
1	P	194	GLN
1	P	198	THR
1	P	199	ILE
1	P	218	LEU
1	P	219	GLU
1	P	221	GLN
1	P	223	ILE
1	P	229	LEU
1	P	244	SER
1	P	245	ARG
1	P	251	ARG
1	P	264	ASP
1	P	273	SER
1	P	274	ARG
1	P	278	GLN
1	P	282	GLU
1	P	287	ILE
1	P	290	GLN
1	P	294	ASN
1	P	298	GLU

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Mol	Chain	Res	Type
1	P	300	ILE
1	P	325	ILE
1	P	331	LEU
1	P	336	SER
1	P	351	ILE
1	P	354	LEU
1	P	364	LEU
1	P	365	LYS
1	P	372	GLU
1	P	376	GLU
1	P	381	GLU
1	P	389	LEU
1	P	392	LEU
1	P	394	SER
1	P	399	LYS
1	P	405	ARG
1	P	410	ASN
1	P	439	LEU
1	P	447	GLN
1	P	448	GLN
1	P	449	LEU
1	P	453	GLN
1	P	455	ARG
1	P	457	TYR
1	P	462	LEU
1	P	471	ASP
1	P	474	SER
1	P	480	ILE
1	P	487	LEU
1	P	495	MET
1	P	499	GLU
1	P	506	GLU
1	P	513	ILE
1	P	518	ASP
1	P	524	GLU
1	P	532	ILE
1	P	534	SER
1	P	537	GLU
1	P	543	PRO
1	P	549	SER
1	P	561	LYS
1	P	562	SER

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Mol	Chain	Res	Type
1	P	563	ASN
1	P	569	LYS
1	P	580	SER
1	P	593	SER
1	P	597	GLU
1	P	604	ASN
1	P	608	ILE
1	P	610	LEU
1	P	615	SER
1	P	621	LEU
1	P	625	THR
1	P	664	LEU
1	P	666	SER
1	P	673	ARG
1	P	675	ILE
1	P	676	ILE
1	P	686	MET
1	P	689	GLU
1	P	690	LEU
1	P	693	HIS
1	P	698	ASN
1	P	701	LEU
1	P	702	GLU
1	P	708	ARG
1	P	713	SER
1	P	714	ARG
1	P	716	LEU
1	P	719	ASP
1	P	722	GLN
1	P	723	ARG
1	P	727	LEU
1	P	728	ASN
1	P	745	GLU
1	P	752	ASP
1	P	753	VAL
1	P	754	ASP
1	P	762	HIS
1	P	774	LEU
1	P	785	GLU
1	P	787	ILE
1	P	793	ARG
1	P	799	MET

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Mol	Chain	Res	Type
1	P	802	GLU
1	P	804	ARG
1	P	810	ARG
1	P	816	ILE
1	P	822	SER
1	P	832	MET
1	P	834	LEU
1	P	838	ILE
1	P	842	LEU
1	P	843	LYS
2	Q	142	PRO
3	R	48	LYS
3	R	68	PHE
3	R	83	THR
3	R	95	ASP
3	R	96	LYS
4	1	16	LEU
4	1	33	SER
4	1	34	ILE
4	1	37	ARG
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	16	LEU
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

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Mol	Chain	Res	Type
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
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	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

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Mol	Chain	Res	Type
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
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	16	LEU
4	5	33	SER
4	5	34	ILE
4	5	37	ARG
4	5	66	THR
4	5	72	GLU
4	5	80	ASP

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	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
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

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Mol	Chain	Res	Type
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	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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	16	LEU
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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 (240) 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
1	A	670	HIS
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

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Mol	Chain	Res	Type
1	D	578	HIS
1	D	612	GLN
1	D	656	ASN
1	D	670	HIS
1	D	757	GLN
1	D	762	HIS
3	F	39	GLN
3	F	52	ASN
1	G	29	ASN
1	G	127	ASN
1	G	149	GLN
1	G	164	GLN
1	G	188	ASN
1	G	194	GLN
1	G	221	GLN
1	G	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	791	GLN
3	I	39	GLN
3	I	52	ASN
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

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Mol	Chain	Res	Type
1	J	447	GLN
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
1	J	722	GLN
1	J	762	HIS
1	J	791	GLN
2	K	159	HIS
3	L	39	GLN
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	698	ASN
1	M	757	GLN
1	M	762	HIS

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Mol	Chain	Res	Type
1	M	791	GLN
2	N	159	HIS
3	O	40	ASN
3	O	52	ASN
3	O	81	GLN
1	P	127	ASN
1	P	149	GLN
1	P	164	GLN
1	P	188	ASN
1	P	194	GLN
1	P	221	GLN
1	P	253	HIS
1	P	290	GLN
1	P	368	GLN
1	P	424	ASN
1	P	447	GLN
1	P	453	GLN
1	P	481	ASN
1	P	484	ASN
1	P	552	ASN
1	P	563	ASN
1	P	564	ASN
1	P	578	HIS
1	P	612	GLN
1	P	656	ASN
1	P	670	HIS
1	P	698	ASN
1	P	722	GLN
1	P	757	GLN
1	P	762	HIS
1	P	791	GLN
2	Q	159	HIS
3	R	39	GLN
3	R	52	ASN
3	R	81	GLN
4	1	41	GLN
4	1	92	ASN
4	1	137	GLN
4	1	252	ASN
4	1	263	GLN
4	2	41	GLN
4	2	87	HIS

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Mol	Chain	Res	Type
4	2	92	ASN
4	2	137	GLN
4	2	263	GLN
4	2	354	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	41	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
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

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Mol	Chain	Res	Type
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
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	D	130	1	9,10,11	0.81	0	6,11,13	0.74	0
1	MLY	D	369	1	9,10,11	0.69	0	6,11,13	0.44	0
1	MLY	G	617	1	9,10,11	0.96	1 (11%)	6,11,13	0.34	0
1	MLY	J	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	A	49	1	9,10,11	1.05	1 (11%)	6,11,13	0.74	0
1	MLY	G	19	1	9,10,11	1.16	1 (11%)	6,11,13	0.58	0
1	MLY	D	681	1	9,10,11	0.59	0	6,11,13	0.45	0
1	MLY	M	55	1	9,10,11	0.71	0	6,11,13	0.78	0
1	MLY	J	272	1	9,10,11	1.02	1 (11%)	6,11,13	0.56	0
1	MLY	P	190	1	9,10,11	1.29	1 (11%)	6,11,13	0.52	0
1	MLY	M	782	1	9,10,11	0.78	0	6,11,13	0.36	0
1	MLY	M	659	1	9,10,11	0.80	0	6,11,13	0.57	0
1	MLY	M	248	1	9,10,11	0.83	0	6,11,13	0.62	0
1	MLY	P	130	1	9,10,11	0.77	0	6,11,13	0.75	0
1	MLY	P	600	1	9,10,11	0.53	0	6,11,13	0.37	0
1	MLY	A	59	1	9,10,11	0.88	0	6,11,13	0.49	0
1	MLY	A	553	1,4	9,10,11	0.66	0	6,11,13	0.54	0
1	MLY	D	827	1	9,10,11	0.68	0	6,11,13	0.48	0
1	MLY	J	613	1	9,10,11	0.56	0	6,11,13	0.64	0
1	MLY	A	504	1	9,10,11	0.89	0	6,11,13	0.24	0
1	MLY	D	431	1	9,10,11	0.54	0	6,11,13	0.46	0
1	MLY	G	598	1	9,10,11	0.89	1 (11%)	6,11,13	0.43	0
1	MLY	J	598	1	9,10,11	0.89	1 (11%)	6,11,13	0.43	0
1	MLY	M	130	1	9,10,11	0.78	0	6,11,13	0.74	0
1	MLY	M	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.48	0
1	MLY	M	369	1	9,10,11	0.69	0	6,11,13	0.45	0
1	MLY	G	55	1	9,10,11	0.73	0	6,11,13	0.80	0
1	MLY	D	107	1	9,10,11	0.50	0	6,11,13	0.34	0
1	MLY	M	837	1	9,10,11	0.59	0	6,11,13	0.54	0
1	MLY	P	296	1	9,10,11	0.70	0	6,11,13	0.36	0
1	MLY	A	87	1	9,10,11	1.21	1 (11%)	6,11,13	0.42	0
1	MLY	D	617	1	9,10,11	0.98	1 (11%)	6,11,13	0.34	0
1	MLY	G	415	1	9,10,11	0.76	0	6,11,13	0.19	0
1	MLY	G	431	1	9,10,11	0.53	0	6,11,13	0.47	0
1	MLY	J	248	1	9,10,11	0.83	0	6,11,13	0.61	0
1	MLY	J	659	1	9,10,11	0.81	0	6,11,13	0.58	0
1	MLY	P	431	1	9,10,11	0.53	0	6,11,13	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	A	35	1	9,10,11	0.71	0	6,11,13	0.38	0
1	MLY	M	190	1	9,10,11	1.25	1 (11%)	6,11,13	0.52	0
1	MLY	D	272	1	9,10,11	0.97	1 (11%)	6,11,13	0.57	0
1	MLY	P	436	1	9,10,11	1.06	1 (11%)	6,11,13	0.50	0
1	MLY	A	130	1	9,10,11	0.81	0	6,11,13	0.75	0
1	MLY	G	486	1	9,10,11	0.65	0	6,11,13	0.38	0
1	MLY	P	551	1	9,10,11	0.52	0	6,11,13	0.19	0
1	MLY	P	598	1	9,10,11	0.86	1 (11%)	6,11,13	0.44	0
1	MLY	J	504	1	9,10,11	0.83	0	6,11,13	0.23	0
1	MLY	P	764	1	9,10,11	0.83	0	6,11,13	0.37	0
1	MLY	J	348	1	9,10,11	0.83	0	6,11,13	0.48	0
1	MLY	J	369	1	9,10,11	0.68	0	6,11,13	0.47	0
1	MLY	G	436	1	9,10,11	1.05	1 (11%)	6,11,13	0.48	0
1	MLY	J	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.47	0
1	MLY	D	49	1	9,10,11	1.07	1 (11%)	6,11,13	0.74	0
1	MLY	J	353	1	9,10,11	0.85	0	6,11,13	0.78	0
1	MLY	G	296	1	9,10,11	0.66	0	6,11,13	0.37	0
1	MLY	M	528	1	9,10,11	0.87	0	6,11,13	0.66	0
1	MLY	P	369	1	9,10,11	0.70	0	6,11,13	0.46	0
1	MLY	G	59	1	9,10,11	0.84	0	6,11,13	0.50	0
1	MLY	A	107	1	9,10,11	0.46	0	6,11,13	0.34	0
1	MLY	G	551	1	9,10,11	0.51	0	6,11,13	0.19	0
1	MLY	G	49	1	9,10,11	1.08	1 (11%)	6,11,13	0.74	0
1	MLY	M	617	1	9,10,11	0.96	1 (11%)	6,11,13	0.33	0
1	MLY	G	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	A	528	1	9,10,11	0.88	0	6,11,13	0.66	0
1	MLY	D	367	1	9,10,11	0.63	0	6,11,13	0.38	0
1	MLY	G	782	1	9,10,11	0.78	0	6,11,13	0.35	0
1	MLY	M	486	1	9,10,11	0.64	0	6,11,13	0.39	0
1	MLY	A	272	1	9,10,11	0.99	1 (11%)	6,11,13	0.55	0
1	MLY	M	827	1	9,10,11	0.71	0	6,11,13	0.50	0
1	MLY	M	35	1	9,10,11	0.72	0	6,11,13	0.40	0
1	MLY	J	528	1	9,10,11	0.88	0	6,11,13	0.65	0
1	MLY	D	190	1	9,10,11	1.23	1 (11%)	6,11,13	0.53	0
1	MLY	A	138	1	9,10,11	1.33	1 (11%)	6,11,13	0.84	0
1	MLY	D	415	1	9,10,11	0.79	0	6,11,13	0.19	0
1	MLY	G	295	1	9,10,11	0.82	0	6,11,13	0.33	0
1	MLY	M	295	1	9,10,11	0.78	0	6,11,13	0.35	0
1	MLY	M	436	1	9,10,11	1.05	1 (11%)	6,11,13	0.49	0
1	MLY	A	367	1	9,10,11	0.63	0	6,11,13	0.37	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	P	138	1	9,10,11	1.32	1 (11%)	6,11,13	0.83	0
1	MLY	D	296	1	9,10,11	0.65	0	6,11,13	0.38	0
1	MLY	G	130	1	9,10,11	0.80	0	6,11,13	0.76	0
1	MLY	G	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	D	613	1	9,10,11	0.56	0	6,11,13	0.64	0
1	MLY	J	107	1	9,10,11	0.47	0	6,11,13	0.34	0
1	MLY	J	505	1	9,10,11	0.93	1 (11%)	6,11,13	0.33	0
1	MLY	J	19	1	9,10,11	1.20	1 (11%)	6,11,13	0.57	0
1	MLY	G	190	1	9,10,11	1.26	1 (11%)	6,11,13	0.52	0
1	MLY	M	553	1	9,10,11	0.66	0	6,11,13	0.53	0
1	MLY	A	436	1	9,10,11	1.05	1 (11%)	6,11,13	0.50	0
1	MLY	G	827	1	9,10,11	0.70	0	6,11,13	0.49	0
1	MLY	M	415	1	9,10,11	0.77	0	6,11,13	0.18	0
1	MLY	M	833	1	9,10,11	1.20	1 (11%)	6,11,13	0.30	0
1	MLY	M	49	1	9,10,11	1.11	1 (11%)	6,11,13	0.74	0
1	MLY	D	764	1	9,10,11	0.87	0	6,11,13	0.35	0
1	MLY	A	839	1	9,10,11	0.69	0	6,11,13	0.81	0
1	MLY	A	505	1	9,10,11	0.92	1 (11%)	6,11,13	0.34	0
1	MLY	P	30	1	9,10,11	0.88	0	6,11,13	0.31	0
1	MLY	P	782	1	9,10,11	0.76	0	6,11,13	0.37	0
1	MLY	P	827	1	9,10,11	0.72	0	6,11,13	0.48	0
1	MLY	G	35	1	9,10,11	0.72	0	6,11,13	0.39	0
1	MLY	G	528	1	9,10,11	0.91	0	6,11,13	0.66	0
1	MLY	P	528	1	9,10,11	0.89	0	6,11,13	0.64	0
1	MLY	J	764	1	9,10,11	0.84	0	6,11,13	0.37	0
1	MLY	J	833	1	9,10,11	1.18	1 (11%)	6,11,13	0.31	0
1	MLY	A	369	1	9,10,11	0.71	0	6,11,13	0.44	0
1	MLY	J	415	1	9,10,11	0.79	0	6,11,13	0.18	0
1	MLY	D	295	1	9,10,11	0.79	0	6,11,13	0.35	0
1	MLY	P	367	1	9,10,11	0.63	0	6,11,13	0.38	0
1	MLY	J	130	1	9,10,11	0.77	0	6,11,13	0.75	0
1	MLY	D	600	1	9,10,11	0.50	0	6,11,13	0.38	0
1	MLY	J	839	1	9,10,11	0.72	0	6,11,13	0.77	0
1	MLY	J	87	1	9,10,11	1.24	1 (11%)	6,11,13	0.43	0
1	MLY	P	553	1	9,10,11	0.69	0	6,11,13	0.54	0
1	MLY	J	63	1	9,10,11	0.91	0	6,11,13	0.43	0
1	MLY	G	236	1	9,10,11	0.78	1 (11%)	6,11,13	0.47	0
1	MLY	J	486	1	9,10,11	0.63	0	6,11,13	0.39	0
1	MLY	M	63	1	9,10,11	0.93	1 (11%)	6,11,13	0.43	0
1	MLY	M	504	1	9,10,11	0.84	0	6,11,13	0.23	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	A	30	1	9,10,11	0.88	0	6,11,13	0.32	0
1	MLY	D	839	1	9,10,11	0.70	0	6,11,13	0.79	0
1	MLY	G	30	1	9,10,11	0.87	0	6,11,13	0.30	0
1	MLY	P	348	1	9,10,11	0.85	0	6,11,13	0.47	0
1	MLY	D	55	1	9,10,11	0.71	0	6,11,13	0.79	0
1	MLY	M	367	1	9,10,11	0.63	0	6,11,13	0.36	0
1	MLY	P	659	1	9,10,11	0.80	0	6,11,13	0.57	0
1	MLY	G	839	1	9,10,11	0.72	0	6,11,13	0.80	0
1	MLY	M	505	1	9,10,11	0.93	1 (11%)	6,11,13	0.34	0
1	MLY	G	63	1	9,10,11	0.91	0	6,11,13	0.43	0
1	MLY	G	837	1	9,10,11	0.60	0	6,11,13	0.53	0
1	MLY	J	296	1	9,10,11	0.68	0	6,11,13	0.37	0
1	MLY	J	681	1	9,10,11	0.60	0	6,11,13	0.46	0
1	MLY	D	768	1	9,10,11	0.74	0	6,11,13	0.40	0
1	MLY	A	295	1	9,10,11	0.82	0	6,11,13	0.32	0
1	MLY	M	296	1	9,10,11	0.69	0	6,11,13	0.35	0
1	MLY	A	353	1	9,10,11	0.87	0	6,11,13	0.78	0
1	MLY	D	35	1	9,10,11	0.72	0	6,11,13	0.38	0
1	MLY	D	659	1	9,10,11	0.82	0	6,11,13	0.60	0
1	MLY	M	551	1	9,10,11	0.51	0	6,11,13	0.19	0
1	MLY	J	768	1	9,10,11	0.77	0	6,11,13	0.42	0
1	MLY	M	107	1	9,10,11	0.47	0	6,11,13	0.33	0
1	MLY	A	681	1	9,10,11	0.59	0	6,11,13	0.45	0
1	MLY	P	35	1	9,10,11	0.72	0	6,11,13	0.39	0
1	MLY	A	613	1	9,10,11	0.56	0	6,11,13	0.64	0
1	MLY	J	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	G	659	1	9,10,11	0.85	0	6,11,13	0.58	0
1	MLY	J	617	1	9,10,11	0.98	1 (11%)	6,11,13	0.33	0
1	MLY	D	63	1	9,10,11	0.91	0	6,11,13	0.45	0
1	MLY	J	190	1	9,10,11	1.25	1 (11%)	6,11,13	0.52	0
1	MLY	J	59	1	9,10,11	0.88	0	6,11,13	0.49	0
1	MLY	A	248	1	9,10,11	0.85	0	6,11,13	0.61	0
1	MLY	P	63	1	9,10,11	0.93	1 (11%)	6,11,13	0.44	0
1	MLY	A	768	1	9,10,11	0.76	0	6,11,13	0.40	0
1	MLY	D	138	1	9,10,11	1.38	1 (11%)	6,11,13	0.86	0
1	MLY	G	504	1	9,10,11	0.87	0	6,11,13	0.23	0
1	MLY	P	504	1	9,10,11	0.84	0	6,11,13	0.24	0
1	MLY	M	84	1	9,10,11	0.49	0	6,11,13	0.80	0
1	MLY	G	107	1	9,10,11	0.46	0	6,11,13	0.33	0
1	MLY	D	505	1	9,10,11	0.87	1 (11%)	6,11,13	0.35	0
1	MLY	M	613	1	9,10,11	0.56	0	6,11,13	0.65	0
1	MLY	D	486	1	9,10,11	0.65	0	6,11,13	0.39	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	J	295	1	9,10,11	0.79	0	6,11,13	0.34	0
1	MLY	M	600	1	9,10,11	0.53	0	6,11,13	0.38	0
1	MLY	A	63	1	9,10,11	0.94	1 (11%)	6,11,13	0.44	0
1	MLY	A	19	1	9,10,11	1.11	1 (11%)	6,11,13	0.58	0
1	MLY	A	659	1	9,10,11	0.84	0	6,11,13	0.60	0
1	MLY	J	837	1	9,10,11	0.59	0	6,11,13	0.55	0
1	MLY	J	35	1	9,10,11	0.72	0	6,11,13	0.39	0
1	MLY	P	87	1	9,10,11	1.22	1 (11%)	6,11,13	0.42	0
1	MLY	P	107	1	9,10,11	0.47	0	6,11,13	0.32	0
1	MLY	P	486	1	9,10,11	0.64	0	6,11,13	0.39	0
1	MLY	G	367	1	9,10,11	0.66	0	6,11,13	0.38	0
1	MLY	D	528	1	9,10,11	0.91	0	6,11,13	0.64	0
1	MLY	G	505	1	9,10,11	0.88	1 (11%)	6,11,13	0.36	0
1	MLY	P	295	1	9,10,11	0.82	0	6,11,13	0.34	0
1	MLY	M	87	1	9,10,11	1.23	1 (11%)	6,11,13	0.43	0
1	MLY	P	681	1	9,10,11	0.61	0	6,11,13	0.46	0
1	MLY	G	613	1	9,10,11	0.58	0	6,11,13	0.63	0
1	MLY	P	272	1	9,10,11	1.03	1 (11%)	6,11,13	0.55	0
1	MLY	D	19	1	9,10,11	1.21	1 (11%)	6,11,13	0.56	0
1	MLY	J	436	1	9,10,11	1.07	1 (11%)	6,11,13	0.49	0
1	MLY	D	385	1	9,10,11	1.00	1 (11%)	6,11,13	0.45	0
1	MLY	A	296	1	9,10,11	0.62	0	6,11,13	0.37	0
1	MLY	A	764	1	9,10,11	0.84	0	6,11,13	0.36	0
1	MLY	D	782	1	9,10,11	0.78	0	6,11,13	0.34	0
1	MLY	M	353	1	9,10,11	0.86	0	6,11,13	0.78	0
1	MLY	P	613	1	9,10,11	0.55	0	6,11,13	0.64	0
1	MLY	P	837	1	9,10,11	0.59	0	6,11,13	0.56	0
1	MLY	P	839	1	9,10,11	0.69	0	6,11,13	0.76	0
1	MLY	P	833	1	9,10,11	1.20	1 (11%)	6,11,13	0.29	0
1	MLY	G	553	1,4	9,10,11	0.68	0	6,11,13	0.55	0
1	MLY	J	553	1	9,10,11	0.67	0	6,11,13	0.54	0
1	MLY	D	348	1	9,10,11	0.82	0	6,11,13	0.47	0
1	MLY	A	837	1	9,10,11	0.60	0	6,11,13	0.53	0
1	MLY	G	272	1	9,10,11	0.97	1 (11%)	6,11,13	0.55	0
1	MLY	J	49	1	9,10,11	1.09	1 (11%)	6,11,13	0.75	0
1	MLY	A	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.49	0
1	MLY	J	551	1	9,10,11	0.52	0	6,11,13	0.20	0
1	MLY	M	681	1	9,10,11	0.59	0	6,11,13	0.46	0
1	MLY	D	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	M	385	1	9,10,11	1.04	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	764	1	9,10,11	0.87	0	6,11,13	0.38	0
1	MLY	J	782	1	9,10,11	0.80	0	6,11,13	0.36	0
1	MLY	G	369	1	9,10,11	0.71	0	6,11,13	0.45	0
1	MLY	D	353	1	9,10,11	0.86	0	6,11,13	0.80	0
1	MLY	P	505	1	9,10,11	0.94	1 (11%)	6,11,13	0.33	0
1	MLY	P	768	1	9,10,11	0.75	0	6,11,13	0.42	0
1	MLY	D	833	1	9,10,11	1.15	2 (22%)	6,11,13	0.31	0
1	MLY	P	84	1	9,10,11	0.50	0	6,11,13	0.80	0
1	MLY	A	600	1	9,10,11	0.52	0	6,11,13	0.38	0
1	MLY	M	839	1	9,10,11	0.70	0	6,11,13	0.77	0
1	MLY	M	348	1	9,10,11	0.82	0	6,11,13	0.47	0
1	MLY	A	385	1	9,10,11	0.99	1 (11%)	6,11,13	0.43	0
1	MLY	M	768	1	9,10,11	0.76	0	6,11,13	0.42	0
1	MLY	P	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.48	0
1	MLY	J	367	1	9,10,11	0.64	0	6,11,13	0.37	0
1	MLY	P	59	1	9,10,11	0.87	0	6,11,13	0.49	0
1	MLY	P	353	1	9,10,11	0.85	0	6,11,13	0.79	0
1	MLY	A	782	1	9,10,11	0.78	0	6,11,13	0.37	0
1	MLY	D	553	1,4	9,10,11	0.69	0	6,11,13	0.56	0
1	MLY	G	764	1	9,10,11	0.83	0	6,11,13	0.36	0
1	MLY	G	833	1	9,10,11	1.18	2 (22%)	6,11,13	0.32	0
1	MLY	J	385	1	9,10,11	1.02	1 (11%)	6,11,13	0.45	0
1	MLY	M	19	1	9,10,11	1.18	1 (11%)	6,11,13	0.57	0
1	MLY	D	598	1	9,10,11	0.89	1 (11%)	6,11,13	0.43	0
1	MLY	A	415	1	9,10,11	0.76	0	6,11,13	0.20	0
1	MLY	J	827	1	9,10,11	0.74	0	6,11,13	0.49	0
1	MLY	M	59	1	9,10,11	0.88	0	6,11,13	0.49	0
1	MLY	D	551	1	9,10,11	0.53	0	6,11,13	0.20	0
1	MLY	A	348	1	9,10,11	0.87	1 (11%)	6,11,13	0.48	0
1	MLY	J	600	1	9,10,11	0.53	0	6,11,13	0.37	0
1	MLY	D	837	1	9,10,11	0.61	0	6,11,13	0.57	0
1	MLY	D	30	1	9,10,11	0.92	0	6,11,13	0.32	0
1	MLY	G	87	1	9,10,11	1.23	1 (11%)	6,11,13	0.43	0
1	MLY	M	272	1	9,10,11	0.98	1 (11%)	6,11,13	0.57	0
1	MLY	P	19	1	9,10,11	1.17	1 (11%)	6,11,13	0.58	0
1	MLY	G	348	1	9,10,11	0.86	1 (11%)	6,11,13	0.47	0
1	MLY	A	84	1	9,10,11	0.49	0	6,11,13	0.79	0
1	MLY	P	248	1	9,10,11	0.84	0	6,11,13	0.63	0
1	MLY	A	190	1	9,10,11	1.28	1 (11%)	6,11,13	0.51	0
1	MLY	P	415	1	9,10,11	0.76	0	6,11,13	0.19	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
1	MLY	A	827	1	9,10,11	0.73	0	6,11,13	0.46	0
1	MLY	G	353	1	9,10,11	0.85	0	6,11,13	0.80	0
1	MLY	G	600	1	9,10,11	0.52	0	6,11,13	0.36	0
1	MLY	D	436	1	9,10,11	1.11	1 (11%)	6,11,13	0.48	0
1	MLY	D	59	1	9,10,11	0.86	0	6,11,13	0.50	0
1	MLY	M	30	1	9,10,11	0.88	0	6,11,13	0.31	0
1	MLY	M	431	1	9,10,11	0.53	0	6,11,13	0.45	0
1	MLY	P	55	1	9,10,11	0.72	0	6,11,13	0.78	0
1	MLY	P	617	1	9,10,11	0.97	1 (11%)	6,11,13	0.33	0
1	MLY	G	681	1	9,10,11	0.61	0	6,11,13	0.44	0
1	MLY	P	49	1	9,10,11	1.09	1 (11%)	6,11,13	0.75	0
1	MLY	A	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.44	0
1	MLY	D	504	1	9,10,11	0.90	0	6,11,13	0.21	0
1	MLY	G	385	1	9,10,11	1.01	1 (11%)	6,11,13	0.43	0
1	MLY	M	138	1	9,10,11	1.32	1 (11%)	6,11,13	0.83	0
1	MLY	A	551	1	9,10,11	0.51	0	6,11,13	0.19	0
1	MLY	A	55	1	9,10,11	0.71	0	6,11,13	0.78	0
1	MLY	J	55	1	9,10,11	0.72	0	6,11,13	0.78	0
1	MLY	A	833	1	9,10,11	1.16	1 (11%)	6,11,13	0.32	0
1	MLY	A	431	1	9,10,11	0.52	0	6,11,13	0.44	0
1	MLY	D	236	1	9,10,11	0.79	1 (11%)	6,11,13	0.46	0
1	MLY	D	248	1	9,10,11	0.83	0	6,11,13	0.61	0
1	MLY	G	248	1	9,10,11	0.81	0	6,11,13	0.63	0
1	MLY	J	30	1	9,10,11	0.89	0	6,11,13	0.32	0
1	MLY	J	431	1	9,10,11	0.54	0	6,11,13	0.44	0
1	MLY	D	87	1	9,10,11	1.19	1 (11%)	6,11,13	0.44	0
1	MLY	P	385	1	9,10,11	0.99	1 (11%)	6,11,13	0.43	0
1	MLY	G	768	1	9,10,11	0.74	0	6,11,13	0.42	0
1	MLY	A	617	1	9,10,11	0.92	1 (11%)	6,11,13	0.33	0
1	MLY	A	486	1	9,10,11	0.65	0	6,11,13	0.38	0
1	MLY	M	598	1	9,10,11	0.91	1 (11%)	6,11,13	0.43	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	D	130	1	-	5/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	369	1	-	2/8/9/11	-
1	MLY	G	617	1	-	1/8/9/11	-
1	MLY	J	138	1	-	4/8/9/11	-
1	MLY	A	49	1	-	3/8/9/11	-
1	MLY	G	19	1	-	4/8/9/11	-
1	MLY	D	681	1	-	4/8/9/11	-
1	MLY	M	55	1	-	6/8/9/11	-
1	MLY	J	272	1	-	3/8/9/11	-
1	MLY	P	190	1	-	5/8/9/11	-
1	MLY	M	782	1	-	6/8/9/11	-
1	MLY	M	659	1	-	3/8/9/11	-
1	MLY	M	248	1	-	6/8/9/11	-
1	MLY	P	130	1	-	5/8/9/11	-
1	MLY	P	600	1	-	3/8/9/11	-
1	MLY	A	59	1	-	3/8/9/11	-
1	MLY	A	553	1,4	-	4/8/9/11	-
1	MLY	D	827	1	-	0/8/9/11	-
1	MLY	J	613	1	-	4/8/9/11	-
1	MLY	A	504	1	-	4/8/9/11	-
1	MLY	D	431	1	-	4/8/9/11	-
1	MLY	G	598	1	-	5/8/9/11	-
1	MLY	J	598	1	-	5/8/9/11	-
1	MLY	M	130	1	-	5/8/9/11	-
1	MLY	M	236	1	-	3/8/9/11	-
1	MLY	M	369	1	-	2/8/9/11	-
1	MLY	G	55	1	-	6/8/9/11	-
1	MLY	D	107	1	-	2/8/9/11	-
1	MLY	M	837	1	-	5/8/9/11	-
1	MLY	P	296	1	-	4/8/9/11	-
1	MLY	A	87	1	-	2/8/9/11	-
1	MLY	D	617	1	-	1/8/9/11	-
1	MLY	G	415	1	-	3/8/9/11	-
1	MLY	G	431	1	-	4/8/9/11	-
1	MLY	J	248	1	-	6/8/9/11	-
1	MLY	J	659	1	-	3/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	431	1	-	4/8/9/11	-
1	MLY	A	35	1	-	3/8/9/11	-
1	MLY	M	190	1	-	5/8/9/11	-
1	MLY	D	272	1	-	3/8/9/11	-
1	MLY	P	436	1	-	4/8/9/11	-
1	MLY	A	130	1	-	5/8/9/11	-
1	MLY	G	486	1	-	2/8/9/11	-
1	MLY	P	551	1	-	3/8/9/11	-
1	MLY	P	598	1	-	5/8/9/11	-
1	MLY	J	504	1	-	4/8/9/11	-
1	MLY	P	764	1	-	2/8/9/11	-
1	MLY	J	348	1	-	5/8/9/11	-
1	MLY	J	369	1	-	2/8/9/11	-
1	MLY	G	436	1	-	4/8/9/11	-
1	MLY	J	236	1	-	3/8/9/11	-
1	MLY	D	49	1	-	3/8/9/11	-
1	MLY	J	353	1	-	4/8/9/11	-
1	MLY	G	296	1	-	4/8/9/11	-
1	MLY	M	528	1	-	5/8/9/11	-
1	MLY	P	369	1	-	2/8/9/11	-
1	MLY	G	59	1	-	3/8/9/11	-
1	MLY	A	107	1	-	2/8/9/11	-
1	MLY	G	551	1	-	3/8/9/11	-
1	MLY	G	49	1	-	3/8/9/11	-
1	MLY	M	617	1	-	1/8/9/11	-
1	MLY	G	138	1	-	4/8/9/11	-
1	MLY	A	528	1	-	5/8/9/11	-
1	MLY	D	367	1	-	2/8/9/11	-
1	MLY	G	782	1	-	6/8/9/11	-
1	MLY	M	486	1	-	2/8/9/11	-
1	MLY	A	272	1	-	3/8/9/11	-
1	MLY	M	827	1	-	0/8/9/11	-
1	MLY	M	35	1	-	3/8/9/11	-
1	MLY	J	528	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	D	190	1	-	5/8/9/11	-
1	MLY	A	138	1	-	4/8/9/11	-
1	MLY	D	415	1	-	3/8/9/11	-
1	MLY	G	295	1	-	2/8/9/11	-
1	MLY	M	295	1	-	2/8/9/11	-
1	MLY	M	436	1	-	4/8/9/11	-
1	MLY	A	367	1	-	2/8/9/11	-
1	MLY	P	138	1	-	4/8/9/11	-
1	MLY	D	296	1	-	4/8/9/11	-
1	MLY	G	130	1	-	5/8/9/11	-
1	MLY	G	84	1	-	4/8/9/11	-
1	MLY	D	613	1	-	4/8/9/11	-
1	MLY	J	107	1	-	2/8/9/11	-
1	MLY	J	505	1	-	5/8/9/11	-
1	MLY	J	19	1	-	4/8/9/11	-
1	MLY	G	190	1	-	5/8/9/11	-
1	MLY	M	553	1	-	4/8/9/11	-
1	MLY	A	436	1	-	4/8/9/11	-
1	MLY	G	827	1	-	0/8/9/11	-
1	MLY	M	415	1	-	3/8/9/11	-
1	MLY	M	833	1	-	6/8/9/11	-
1	MLY	M	49	1	-	3/8/9/11	-
1	MLY	D	764	1	-	2/8/9/11	-
1	MLY	A	839	1	-	3/8/9/11	-
1	MLY	A	505	1	-	5/8/9/11	-
1	MLY	P	30	1	-	2/8/9/11	-
1	MLY	P	782	1	-	6/8/9/11	-
1	MLY	P	827	1	-	0/8/9/11	-
1	MLY	G	35	1	-	3/8/9/11	-
1	MLY	G	528	1	-	4/8/9/11	-
1	MLY	P	528	1	-	5/8/9/11	-
1	MLY	J	764	1	-	2/8/9/11	-
1	MLY	J	833	1	-	6/8/9/11	-
1	MLY	A	369	1	-	2/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	J	415	1	-	3/8/9/11	-
1	MLY	D	295	1	-	2/8/9/11	-
1	MLY	P	367	1	-	2/8/9/11	-
1	MLY	J	130	1	-	5/8/9/11	-
1	MLY	D	600	1	-	3/8/9/11	-
1	MLY	J	839	1	-	3/8/9/11	-
1	MLY	J	87	1	-	2/8/9/11	-
1	MLY	P	553	1	-	4/8/9/11	-
1	MLY	J	63	1	-	4/8/9/11	-
1	MLY	G	236	1	-	3/8/9/11	-
1	MLY	J	486	1	-	2/8/9/11	-
1	MLY	M	63	1	-	4/8/9/11	-
1	MLY	M	504	1	-	4/8/9/11	-
1	MLY	A	30	1	-	2/8/9/11	-
1	MLY	D	839	1	-	3/8/9/11	-
1	MLY	G	30	1	-	2/8/9/11	-
1	MLY	P	348	1	-	5/8/9/11	-
1	MLY	D	55	1	-	6/8/9/11	-
1	MLY	M	367	1	-	2/8/9/11	-
1	MLY	P	659	1	-	3/8/9/11	-
1	MLY	G	839	1	-	3/8/9/11	-
1	MLY	M	505	1	-	5/8/9/11	-
1	MLY	G	63	1	-	4/8/9/11	-
1	MLY	G	837	1	-	5/8/9/11	-
1	MLY	J	296	1	-	4/8/9/11	-
1	MLY	J	681	1	-	4/8/9/11	-
1	MLY	D	768	1	-	4/8/9/11	-
1	MLY	A	295	1	-	2/8/9/11	-
1	MLY	M	296	1	-	4/8/9/11	-
1	MLY	A	353	1	-	4/8/9/11	-
1	MLY	D	35	1	-	3/8/9/11	-
1	MLY	D	659	1	-	3/8/9/11	-
1	MLY	M	551	1	-	3/8/9/11	-
1	MLY	J	768	1	-	4/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	M	107	1	-	2/8/9/11	-
1	MLY	A	681	1	-	4/8/9/11	-
1	MLY	P	35	1	-	3/8/9/11	-
1	MLY	A	613	1	-	4/8/9/11	-
1	MLY	J	84	1	-	4/8/9/11	-
1	MLY	G	659	1	-	3/8/9/11	-
1	MLY	J	617	1	-	1/8/9/11	-
1	MLY	D	63	1	-	4/8/9/11	-
1	MLY	J	190	1	-	5/8/9/11	-
1	MLY	J	59	1	-	3/8/9/11	-
1	MLY	A	248	1	-	6/8/9/11	-
1	MLY	P	63	1	-	4/8/9/11	-
1	MLY	A	768	1	-	4/8/9/11	-
1	MLY	D	138	1	-	4/8/9/11	-
1	MLY	G	504	1	-	4/8/9/11	-
1	MLY	P	504	1	-	4/8/9/11	-
1	MLY	M	84	1	-	4/8/9/11	-
1	MLY	G	107	1	-	2/8/9/11	-
1	MLY	D	505	1	-	5/8/9/11	-
1	MLY	M	613	1	-	4/8/9/11	-
1	MLY	D	486	1	-	2/8/9/11	-
1	MLY	J	295	1	-	2/8/9/11	-
1	MLY	M	600	1	-	3/8/9/11	-
1	MLY	A	63	1	-	4/8/9/11	-
1	MLY	A	19	1	-	4/8/9/11	-
1	MLY	A	659	1	-	3/8/9/11	-
1	MLY	J	837	1	-	5/8/9/11	-
1	MLY	J	35	1	-	3/8/9/11	-
1	MLY	P	87	1	-	2/8/9/11	-
1	MLY	P	107	1	-	2/8/9/11	-
1	MLY	P	486	1	-	2/8/9/11	-
1	MLY	G	367	1	-	2/8/9/11	-
1	MLY	D	528	1	-	4/8/9/11	-
1	MLY	G	505	1	-	5/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	295	1	-	2/8/9/11	-
1	MLY	M	87	1	-	2/8/9/11	-
1	MLY	P	681	1	-	4/8/9/11	-
1	MLY	G	613	1	-	4/8/9/11	-
1	MLY	P	272	1	-	3/8/9/11	-
1	MLY	D	19	1	-	4/8/9/11	-
1	MLY	J	436	1	-	4/8/9/11	-
1	MLY	D	385	1	-	2/8/9/11	-
1	MLY	A	296	1	-	4/8/9/11	-
1	MLY	A	764	1	-	2/8/9/11	-
1	MLY	D	782	1	-	6/8/9/11	-
1	MLY	M	353	1	-	4/8/9/11	-
1	MLY	P	613	1	-	4/8/9/11	-
1	MLY	P	837	1	-	5/8/9/11	-
1	MLY	P	839	1	-	3/8/9/11	-
1	MLY	P	833	1	-	6/8/9/11	-
1	MLY	G	553	1,4	-	4/8/9/11	-
1	MLY	J	553	1	-	4/8/9/11	-
1	MLY	D	348	1	-	5/8/9/11	-
1	MLY	A	837	1	-	5/8/9/11	-
1	MLY	G	272	1	-	3/8/9/11	-
1	MLY	J	49	1	-	3/8/9/11	-
1	MLY	A	236	1	-	3/8/9/11	-
1	MLY	J	551	1	-	3/8/9/11	-
1	MLY	M	681	1	-	4/8/9/11	-
1	MLY	D	84	1	-	4/8/9/11	-
1	MLY	M	385	1	-	2/8/9/11	-
1	MLY	M	764	1	-	2/8/9/11	-
1	MLY	J	782	1	-	6/8/9/11	-
1	MLY	G	369	1	-	2/8/9/11	-
1	MLY	D	353	1	-	4/8/9/11	-
1	MLY	P	505	1	-	5/8/9/11	-
1	MLY	P	768	1	-	4/8/9/11	-
1	MLY	D	833	1	-	6/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	P	84	1	-	4/8/9/11	-
1	MLY	A	600	1	-	3/8/9/11	-
1	MLY	M	839	1	-	3/8/9/11	-
1	MLY	M	348	1	-	5/8/9/11	-
1	MLY	A	385	1	-	2/8/9/11	-
1	MLY	M	768	1	-	4/8/9/11	-
1	MLY	P	236	1	-	3/8/9/11	-
1	MLY	J	367	1	-	2/8/9/11	-
1	MLY	P	59	1	-	3/8/9/11	-
1	MLY	P	353	1	-	4/8/9/11	-
1	MLY	A	782	1	-	6/8/9/11	-
1	MLY	D	553	1,4	-	5/8/9/11	-
1	MLY	G	764	1	-	2/8/9/11	-
1	MLY	G	833	1	-	6/8/9/11	-
1	MLY	J	385	1	-	2/8/9/11	-
1	MLY	M	19	1	-	4/8/9/11	-
1	MLY	D	598	1	-	5/8/9/11	-
1	MLY	A	415	1	-	3/8/9/11	-
1	MLY	J	827	1	-	0/8/9/11	-
1	MLY	M	59	1	-	3/8/9/11	-
1	MLY	D	551	1	-	3/8/9/11	-
1	MLY	A	348	1	-	5/8/9/11	-
1	MLY	J	600	1	-	3/8/9/11	-
1	MLY	D	837	1	-	5/8/9/11	-
1	MLY	D	30	1	-	2/8/9/11	-
1	MLY	G	87	1	-	2/8/9/11	-
1	MLY	M	272	1	-	3/8/9/11	-
1	MLY	P	19	1	-	4/8/9/11	-
1	MLY	G	348	1	-	5/8/9/11	-
1	MLY	A	84	1	-	4/8/9/11	-
1	MLY	P	248	1	-	6/8/9/11	-
1	MLY	A	190	1	-	5/8/9/11	-
1	MLY	P	415	1	-	3/8/9/11	-
1	MLY	A	827	1	-	0/8/9/11	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	MLY	G	353	1	-	4/8/9/11	-
1	MLY	G	600	1	-	3/8/9/11	-
1	MLY	D	436	1	-	4/8/9/11	-
1	MLY	D	59	1	-	3/8/9/11	-
1	MLY	M	30	1	-	2/8/9/11	-
1	MLY	M	431	1	-	4/8/9/11	-
1	MLY	P	55	1	-	6/8/9/11	-
1	MLY	P	617	1	-	1/8/9/11	-
1	MLY	G	681	1	-	4/8/9/11	-
1	MLY	P	49	1	-	3/8/9/11	-
1	MLY	A	598	1	-	5/8/9/11	-
1	MLY	D	504	1	-	4/8/9/11	-
1	MLY	G	385	1	-	2/8/9/11	-
1	MLY	M	138	1	-	4/8/9/11	-
1	MLY	A	551	1	-	3/8/9/11	-
1	MLY	A	55	1	-	6/8/9/11	-
1	MLY	J	55	1	-	6/8/9/11	-
1	MLY	A	833	1	-	6/8/9/11	-
1	MLY	A	431	1	-	4/8/9/11	-
1	MLY	D	236	1	-	3/8/9/11	-
1	MLY	D	248	1	-	6/8/9/11	-
1	MLY	G	248	1	-	6/8/9/11	-
1	MLY	J	30	1	-	2/8/9/11	-
1	MLY	J	431	1	-	4/8/9/11	-
1	MLY	D	87	1	-	2/8/9/11	-
1	MLY	P	385	1	-	2/8/9/11	-
1	MLY	G	768	1	-	4/8/9/11	-
1	MLY	A	617	1	-	1/8/9/11	-
1	MLY	A	486	1	-	2/8/9/11	-
1	MLY	M	598	1	-	5/8/9/11	-

All (85) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	138	MLY	CB-CA	-3.79	1.48	1.53
1	A	138	MLY	CB-CA	-3.63	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	138	MLY	CB-CA	-3.63	1.48	1.53
1	G	138	MLY	CB-CA	-3.63	1.48	1.53
1	P	138	MLY	CB-CA	-3.60	1.48	1.53
1	M	138	MLY	CB-CA	-3.57	1.48	1.53
1	D	19	MLY	CB-CA	-3.28	1.49	1.53
1	J	19	MLY	CB-CA	-3.23	1.49	1.53
1	G	87	MLY	CB-CA	-3.22	1.49	1.53
1	M	19	MLY	CB-CA	-3.19	1.49	1.53
1	J	87	MLY	CB-CA	-3.19	1.49	1.53
1	P	19	MLY	CB-CA	-3.16	1.49	1.53
1	M	87	MLY	CB-CA	-3.15	1.49	1.53
1	P	87	MLY	CB-CA	-3.12	1.49	1.53
1	A	87	MLY	CB-CA	-3.10	1.49	1.53
1	G	19	MLY	CB-CA	-3.09	1.49	1.53
1	D	436	MLY	CB-CA	-3.07	1.49	1.53
1	D	87	MLY	CB-CA	-3.06	1.49	1.53
1	A	19	MLY	CB-CA	-2.96	1.49	1.53
1	J	436	MLY	CB-CA	-2.96	1.49	1.53
1	M	49	MLY	CB-CA	-2.92	1.49	1.53
1	P	436	MLY	CB-CA	-2.92	1.49	1.53
1	G	436	MLY	CB-CA	-2.90	1.49	1.53
1	M	436	MLY	CB-CA	-2.90	1.49	1.53
1	A	436	MLY	CB-CA	-2.86	1.49	1.53
1	J	49	MLY	CB-CA	-2.85	1.49	1.53
1	P	272	MLY	CB-CA	-2.83	1.49	1.53
1	P	49	MLY	CB-CA	-2.83	1.49	1.53
1	G	49	MLY	CB-CA	-2.81	1.49	1.53
1	J	272	MLY	CB-CA	-2.79	1.49	1.53
1	D	49	MLY	CB-CA	-2.75	1.49	1.53
1	A	49	MLY	CB-CA	-2.73	1.49	1.53
1	A	272	MLY	CB-CA	-2.72	1.49	1.53
1	P	190	MLY	CB-CA	-2.72	1.49	1.53
1	M	272	MLY	CB-CA	-2.68	1.50	1.53
1	G	272	MLY	CB-CA	-2.66	1.50	1.53
1	D	272	MLY	CB-CA	-2.63	1.50	1.53
1	A	190	MLY	CB-CA	-2.62	1.50	1.53
1	M	385	MLY	CB-CA	-2.61	1.50	1.53
1	G	190	MLY	CB-CA	-2.61	1.50	1.53
1	M	190	MLY	CB-CA	-2.57	1.50	1.53
1	P	833	MLY	CB-CA	-2.56	1.50	1.53
1	M	833	MLY	CB-CA	-2.55	1.50	1.53
1	J	190	MLY	CB-CA	-2.55	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	385	MLY	CB-CA	-2.55	1.50	1.53
1	D	190	MLY	CB-CA	-2.49	1.50	1.53
1	G	385	MLY	CB-CA	-2.47	1.50	1.53
1	J	833	MLY	CB-CA	-2.46	1.50	1.53
1	D	385	MLY	CB-CA	-2.46	1.50	1.53
1	A	385	MLY	CB-CA	-2.43	1.50	1.53
1	P	385	MLY	CB-CA	-2.43	1.50	1.53
1	P	505	MLY	CB-CA	-2.38	1.50	1.53
1	J	505	MLY	CB-CA	-2.36	1.50	1.53
1	M	505	MLY	CB-CA	-2.32	1.50	1.53
1	A	505	MLY	CB-CA	-2.32	1.50	1.53
1	A	598	MLY	CB-CA	-2.32	1.50	1.53
1	G	833	MLY	CB-CA	-2.31	1.50	1.53
1	M	598	MLY	CB-CA	-2.29	1.50	1.53
1	A	833	MLY	CB-CA	-2.28	1.50	1.53
1	D	617	MLY	CB-CA	-2.28	1.50	1.53
1	J	617	MLY	CB-CA	-2.27	1.50	1.53
1	G	598	MLY	CB-CA	-2.25	1.50	1.53
1	J	598	MLY	CB-CA	-2.24	1.50	1.53
1	P	617	MLY	CB-CA	-2.24	1.50	1.53
1	M	617	MLY	CB-CA	-2.24	1.50	1.53
1	D	598	MLY	CB-CA	-2.21	1.50	1.53
1	G	505	MLY	CB-CA	-2.21	1.50	1.53
1	G	617	MLY	CB-CA	-2.20	1.50	1.53
1	D	833	MLY	CB-CA	-2.18	1.50	1.53
1	D	505	MLY	CB-CA	-2.17	1.50	1.53
1	D	236	MLY	CA-N	-2.15	1.41	1.48
1	J	236	MLY	CA-N	-2.13	1.41	1.48
1	M	236	MLY	CA-N	-2.13	1.41	1.48
1	A	236	MLY	CA-N	-2.13	1.41	1.48
1	P	598	MLY	CB-CA	-2.12	1.50	1.53
1	A	63	MLY	CB-CA	-2.12	1.50	1.53
1	P	236	MLY	CA-N	-2.11	1.41	1.48
1	G	236	MLY	CA-N	-2.11	1.41	1.48
1	M	63	MLY	CB-CA	-2.07	1.50	1.53
1	D	833	MLY	CA-N	-2.07	1.41	1.48
1	G	348	MLY	CB-CA	-2.05	1.50	1.53
1	A	617	MLY	CB-CA	-2.05	1.50	1.53
1	A	348	MLY	CB-CA	-2.03	1.50	1.53
1	P	63	MLY	CB-CA	-2.02	1.50	1.53
1	G	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	348	MLY	N-CA-CB-CG
1	A	436	MLY	C-CA-CB-CG
1	A	486	MLY	C-CA-CB-CG
1	A	505	MLY	N-CA-CB-CG
1	A	505	MLY	C-CA-CB-CG
1	A	528	MLY	C-CA-CB-CG
1	A	551	MLY	C-CA-CB-CG
1	A	553	MLY	C-CA-CB-CG
1	A	598	MLY	N-CA-CB-CG
1	A	598	MLY	C-CA-CB-CG
1	A	613	MLY	N-CA-CB-CG
1	A	613	MLY	C-CA-CB-CG
1	A	681	MLY	C-CA-CB-CG
1	A	782	MLY	C-CA-CB-CG
1	A	782	MLY	O-C-CA-CB
1	D	19	MLY	C-CA-CB-CG
1	D	49	MLY	N-CA-CB-CG
1	D	49	MLY	C-CA-CB-CG
1	D	55	MLY	N-CA-CB-CG
1	D	55	MLY	C-CA-CB-CG
1	D	84	MLY	C-CA-CB-CG
1	D	130	MLY	C-CA-CB-CG
1	D	248	MLY	N-CA-CB-CG
1	D	248	MLY	C-CA-CB-CG
1	D	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

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

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

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Mol	Chain	Res	Type	Atoms
1	P	55	MLY	C-CA-CB-CG
1	P	84	MLY	C-CA-CB-CG
1	P	130	MLY	C-CA-CB-CG
1	P	248	MLY	N-CA-CB-CG
1	P	248	MLY	C-CA-CB-CG
1	P	348	MLY	N-CA-CB-CG
1	P	436	MLY	C-CA-CB-CG
1	P	486	MLY	C-CA-CB-CG
1	P	505	MLY	N-CA-CB-CG
1	P	505	MLY	C-CA-CB-CG
1	P	528	MLY	C-CA-CB-CG
1	P	551	MLY	C-CA-CB-CG
1	P	553	MLY	C-CA-CB-CG
1	P	598	MLY	N-CA-CB-CG
1	P	598	MLY	C-CA-CB-CG
1	P	613	MLY	N-CA-CB-CG
1	P	613	MLY	C-CA-CB-CG
1	P	681	MLY	C-CA-CB-CG
1	P	782	MLY	C-CA-CB-CG
1	P	782	MLY	O-C-CA-CB
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
1	M	84	MLY	CD-CE-NZ-CH1
1	P	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-CH1
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

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Mol	Chain	Res	Type	Atoms
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	59	MLY	CD-CE-NZ-CH1
1	D	59	MLY	CD-CE-NZ-CH2
1	D	63	MLY	CD-CE-NZ-CH1
1	D	84	MLY	CD-CE-NZ-CH2
1	D	130	MLY	CD-CE-NZ-CH1
1	D	130	MLY	CD-CE-NZ-CH2
1	D	138	MLY	CD-CE-NZ-CH1
1	D	138	MLY	CD-CE-NZ-CH2
1	D	190	MLY	CD-CE-NZ-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

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Mol	Chain	Res	Type	Atoms
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
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

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Mol	Chain	Res	Type	Atoms
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	505	MLY	CD-CE-NZ-CH2
1	J	528	MLY	CD-CE-NZ-CH1
1	J	528	MLY	CD-CE-NZ-CH2
1	J	553	MLY	CD-CE-NZ-CH2
1	J	600	MLY	CD-CE-NZ-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

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Mol	Chain	Res	Type	Atoms
1	M	130	MLY	CD-CE-NZ-CH1
1	M	130	MLY	CD-CE-NZ-CH2
1	M	138	MLY	CD-CE-NZ-CH1
1	M	138	MLY	CD-CE-NZ-CH2
1	M	190	MLY	CD-CE-NZ-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
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	P	55	MLY	CD-CE-NZ-CH2
1	P	59	MLY	CD-CE-NZ-CH1
1	P	59	MLY	CD-CE-NZ-CH2
1	P	63	MLY	CD-CE-NZ-CH1
1	P	84	MLY	CD-CE-NZ-CH2
1	P	130	MLY	CD-CE-NZ-CH1
1	P	130	MLY	CD-CE-NZ-CH2
1	P	138	MLY	CD-CE-NZ-CH1
1	P	138	MLY	CD-CE-NZ-CH2
1	P	190	MLY	CD-CE-NZ-CH2
1	P	248	MLY	CD-CE-NZ-CH1
1	P	272	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	P	296	MLY	CD-CE-NZ-CH1
1	P	296	MLY	CD-CE-NZ-CH2
1	P	353	MLY	CD-CE-NZ-CH1
1	P	353	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH2
1	P	385	MLY	CD-CE-NZ-CH1
1	P	385	MLY	CD-CE-NZ-CH2
1	P	431	MLY	CD-CE-NZ-CH2
1	P	505	MLY	CD-CE-NZ-CH2
1	P	528	MLY	CD-CE-NZ-CH1
1	P	528	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH2
1	P	600	MLY	CD-CE-NZ-CH2
1	P	764	MLY	CD-CE-NZ-CH1
1	P	764	MLY	CD-CE-NZ-CH2
1	P	768	MLY	CD-CE-NZ-CH1
1	P	782	MLY	CD-CE-NZ-CH1
1	P	782	MLY	CD-CE-NZ-CH2
1	P	833	MLY	CD-CE-NZ-CH1
1	P	833	MLY	CD-CE-NZ-CH2
1	P	837	MLY	CD-CE-NZ-CH1
1	P	837	MLY	CD-CE-NZ-CH2
1	P	839	MLY	CD-CE-NZ-CH2
1	A	659	MLY	CG-CD-CE-NZ
1	D	659	MLY	CG-CD-CE-NZ
1	J	659	MLY	CG-CD-CE-NZ
1	P	659	MLY	CG-CD-CE-NZ
1	D	35	MLY	CG-CD-CE-NZ
1	G	87	MLY	CG-CD-CE-NZ
1	G	659	MLY	CG-CD-CE-NZ
1	J	87	MLY	CG-CD-CE-NZ
1	M	35	MLY	CG-CD-CE-NZ
1	M	87	MLY	CG-CD-CE-NZ
1	M	659	MLY	CG-CD-CE-NZ
1	A	35	MLY	CG-CD-CE-NZ
1	A	87	MLY	CG-CD-CE-NZ
1	D	87	MLY	CG-CD-CE-NZ
1	G	35	MLY	CG-CD-CE-NZ
1	J	35	MLY	CG-CD-CE-NZ
1	P	35	MLY	CG-CD-CE-NZ
1	P	87	MLY	CG-CD-CE-NZ
1	A	295	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	D	295	MLY	CG-CD-CE-NZ
1	G	295	MLY	CG-CD-CE-NZ
1	J	295	MLY	CG-CD-CE-NZ
1	M	295	MLY	CG-CD-CE-NZ
1	P	295	MLY	CG-CD-CE-NZ
1	A	138	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	138	MLY	CG-CD-CE-NZ
1	J	782	MLY	CG-CD-CE-NZ
1	M	782	MLY	CG-CD-CE-NZ
1	P	782	MLY	CG-CD-CE-NZ
1	M	138	MLY	CG-CD-CE-NZ
1	P	138	MLY	CG-CD-CE-NZ
1	D	138	MLY	CG-CD-CE-NZ
1	G	138	MLY	CG-CD-CE-NZ
1	A	55	MLY	CD-CE-NZ-CH2
1	A	248	MLY	CD-CE-NZ-CH2
1	A	348	MLY	CD-CE-NZ-CH1
1	A	348	MLY	CD-CE-NZ-CH2
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	55	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

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Mol	Chain	Res	Type	Atoms
1	G	248	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	504	MLY	CD-CE-NZ-CH2
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	504	MLY	CD-CE-NZ-CH2
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
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	P	190	MLY	CD-CE-NZ-CH1
1	P	248	MLY	CD-CE-NZ-CH2
1	P	348	MLY	CD-CE-NZ-CH1
1	P	348	MLY	CD-CE-NZ-CH2
1	P	367	MLY	CD-CE-NZ-CH1
1	P	431	MLY	CD-CE-NZ-CH1
1	P	504	MLY	CD-CE-NZ-CH1
1	P	504	MLY	CD-CE-NZ-CH2
1	P	505	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	P	600	MLY	CD-CE-NZ-CH1
1	P	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	P	84	MLY	CG-CD-CE-NZ
1	P	130	MLY	CG-CD-CE-NZ
1	G	504	MLY	CG-CD-CE-NZ
1	J	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	504	MLY	CG-CD-CE-NZ
1	M	681	MLY	CG-CD-CE-NZ
1	P	504	MLY	CG-CD-CE-NZ
1	P	681	MLY	CG-CD-CE-NZ
1	A	295	MLY	CA-CB-CG-CD
1	D	295	MLY	CA-CB-CG-CD
1	G	295	MLY	CA-CB-CG-CD
1	J	295	MLY	CA-CB-CG-CD
1	M	295	MLY	CA-CB-CG-CD
1	P	295	MLY	CA-CB-CG-CD
1	A	504	MLY	CG-CD-CE-NZ
1	D	504	MLY	CG-CD-CE-NZ
1	A	107	MLY	CD-CE-NZ-CH1
1	A	272	MLY	CD-CE-NZ-CH2
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	272	MLY	CD-CE-NZ-CH2
1	G	369	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
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	P	107	MLY	CD-CE-NZ-CH1
1	P	272	MLY	CD-CE-NZ-CH2
1	P	369	MLY	CD-CE-NZ-CH2
1	P	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	D	598	MLY	CG-CD-CE-NZ
1	M	598	MLY	CG-CD-CE-NZ
1	P	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
1	J	768	MLY	CA-CB-CG-CD
1	M	504	MLY	CA-CB-CG-CD
1	M	768	MLY	CA-CB-CG-CD
1	P	504	MLY	CA-CB-CG-CD
1	P	768	MLY	CA-CB-CG-CD
1	A	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	G	55	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
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	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	P	55	MLY	CD-CE-NZ-CH1
1	P	63	MLY	CD-CE-NZ-CH2
1	P	87	MLY	CD-CE-NZ-CH1
1	P	415	MLY	CD-CE-NZ-CH1
1	P	415	MLY	CD-CE-NZ-CH2
1	P	553	MLY	CD-CE-NZ-CH1
1	P	659	MLY	CD-CE-NZ-CH1
1	A	415	MLY	CA-CB-CG-CD
1	G	415	MLY	CA-CB-CG-CD
1	J	415	MLY	CA-CB-CG-CD
1	M	415	MLY	CA-CB-CG-CD
1	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	D	659	MLY	CD-CE-NZ-CH1
1	G	19	MLY	CD-CE-NZ-CH2
1	G	87	MLY	CD-CE-NZ-CH1
1	G	659	MLY	CD-CE-NZ-CH1
1	J	19	MLY	CD-CE-NZ-CH2
1	M	19	MLY	CD-CE-NZ-CH2
1	M	659	MLY	CD-CE-NZ-CH1
1	P	19	MLY	CD-CE-NZ-CH2

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Mol	Chain	Res	Type	Atoms
1	G	551	MLY	CG-CD-CE-NZ
1	J	551	MLY	CG-CD-CE-NZ
1	M	551	MLY	CG-CD-CE-NZ
1	P	551	MLY	CG-CD-CE-NZ
1	A	551	MLY	CG-CD-CE-NZ
1	D	551	MLY	CG-CD-CE-NZ
1	D	415	MLY	CA-CB-CG-CD
1	P	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	P	272	MLY	CE-CD-CG-CB
1	M	296	MLY	CE-CD-CG-CB
1	A	30	MLY	CE-CD-CG-CB
1	A	296	MLY	CE-CD-CG-CB
1	D	30	MLY	CE-CD-CG-CB
1	D	296	MLY	CE-CD-CG-CB
1	G	296	MLY	CE-CD-CG-CB
1	J	30	MLY	CE-CD-CG-CB
1	J	296	MLY	CE-CD-CG-CB
1	M	30	MLY	CE-CD-CG-CB
1	P	30	MLY	CE-CD-CG-CB
1	P	296	MLY	CE-CD-CG-CB
1	A	505	MLY	CE-CD-CG-CB
1	D	505	MLY	CE-CD-CG-CB
1	G	30	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	P	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	P	107	MLY	CD-CE-NZ-CH2
1	P	839	MLY	CD-CE-NZ-CH1
1	A	681	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	D	681	MLY	CE-CD-CG-CB
1	G	681	MLY	CE-CD-CG-CB
1	J	681	MLY	CE-CD-CG-CB
1	D	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	M	681	MLY	CE-CD-CG-CB
1	P	49	MLY	CE-CD-CG-CB
1	P	681	MLY	CE-CD-CG-CB
1	A	49	MLY	CE-CD-CG-CB
1	D	353	MLY	CE-CD-CG-CB
1	J	353	MLY	CE-CD-CG-CB
1	P	353	MLY	CE-CD-CG-CB
1	D	768	MLY	CE-CD-CG-CB
1	G	353	MLY	CE-CD-CG-CB
1	M	353	MLY	CE-CD-CG-CB
1	A	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
1	G	768	MLY	CE-CD-CG-CB
1	J	768	MLY	CE-CD-CG-CB
1	M	768	MLY	CE-CD-CG-CB
1	P	768	MLY	CE-CD-CG-CB
1	J	190	MLY	CE-CD-CG-CB
1	M	190	MLY	CE-CD-CG-CB
1	P	190	MLY	CE-CD-CG-CB
1	A	782	MLY	CE-CD-CG-CB
1	A	369	MLY	CE-CD-CG-CB
1	D	369	MLY	CE-CD-CG-CB
1	D	782	MLY	CE-CD-CG-CB
1	G	369	MLY	CE-CD-CG-CB
1	J	782	MLY	CE-CD-CG-CB
1	M	369	MLY	CE-CD-CG-CB
1	J	369	MLY	CE-CD-CG-CB
1	M	782	MLY	CE-CD-CG-CB
1	P	369	MLY	CE-CD-CG-CB
1	P	782	MLY	CE-CD-CG-CB
1	A	107	MLY	CD-CE-NZ-CH2
1	A	236	MLY	CD-CE-NZ-CH1

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Mol	Chain	Res	Type	Atoms
1	D	107	MLY	CD-CE-NZ-CH2
1	G	107	MLY	CD-CE-NZ-CH2
1	G	236	MLY	CD-CE-NZ-CH1
1	J	236	MLY	CD-CE-NZ-CH1
1	M	236	MLY	CD-CE-NZ-CH1
1	P	236	MLY	CD-CE-NZ-CH1
1	G	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	P	436	MLY	CA-CB-CG-CD
1	P	837	MLY	CA-CB-CG-CD
1	M	190	MLY	CG-CD-CE-NZ
1	A	190	MLY	CG-CD-CE-NZ
1	J	190	MLY	CG-CD-CE-NZ
1	P	190	MLY	CG-CD-CE-NZ
1	G	190	MLY	CG-CD-CE-NZ
1	J	833	MLY	CE-CD-CG-CB
1	D	833	MLY	CE-CD-CG-CB
1	A	833	MLY	CE-CD-CG-CB
1	G	833	MLY	CE-CD-CG-CB
1	M	833	MLY	CE-CD-CG-CB
1	P	833	MLY	CE-CD-CG-CB
1	A	431	MLY	CA-CB-CG-CD
1	D	431	MLY	CA-CB-CG-CD
1	G	236	MLY	CA-CB-CG-CD
1	G	431	MLY	CA-CB-CG-CD
1	J	431	MLY	CA-CB-CG-CD
1	M	431	MLY	CA-CB-CG-CD
1	M	833	MLY	CA-CB-CG-CD
1	P	236	MLY	CA-CB-CG-CD
1	P	431	MLY	CA-CB-CG-CD
1	D	236	MLY	CD-CE-NZ-CH1
1	A	55	MLY	CG-CD-CE-NZ

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Mol	Chain	Res	Type	Atoms
1	D	55	MLY	CG-CD-CE-NZ
1	J	55	MLY	CG-CD-CE-NZ
1	G	617	MLY	CE-CD-CG-CB
1	M	55	MLY	CG-CD-CE-NZ
1	M	617	MLY	CE-CD-CG-CB
1	P	55	MLY	CG-CD-CE-NZ
1	A	617	MLY	CE-CD-CG-CB
1	D	617	MLY	CE-CD-CG-CB
1	J	617	MLY	CE-CD-CG-CB
1	P	617	MLY	CE-CD-CG-CB
1	A	236	MLY	CA-CB-CG-CD
1	A	833	MLY	CA-CB-CG-CD
1	D	236	MLY	CA-CB-CG-CD
1	D	833	MLY	CA-CB-CG-CD
1	G	833	MLY	CA-CB-CG-CD
1	J	236	MLY	CA-CB-CG-CD
1	J	833	MLY	CA-CB-CG-CD
1	M	236	MLY	CA-CB-CG-CD
1	P	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
1	P	348	MLY	C-CA-CB-CG
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	M	551	MLY	CE-CD-CG-CB
1	P	551	MLY	CE-CD-CG-CB
1	A	551	MLY	CE-CD-CG-CB
1	G	59	MLY	CE-CD-CG-CB
1	A	55	MLY	CE-CD-CG-CB
1	A	59	MLY	CE-CD-CG-CB
1	D	55	MLY	CE-CD-CG-CB
1	D	59	MLY	CE-CD-CG-CB
1	G	55	MLY	CE-CD-CG-CB
1	G	553	MLY	CE-CD-CG-CB
1	J	59	MLY	CE-CD-CG-CB
1	M	59	MLY	CE-CD-CG-CB
1	M	553	MLY	CE-CD-CG-CB

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Mol	Chain	Res	Type	Atoms
1	P	59	MLY	CE-CD-CG-CB
1	A	553	MLY	CE-CD-CG-CB
1	D	553	MLY	CE-CD-CG-CB
1	J	55	MLY	CE-CD-CG-CB
1	J	553	MLY	CE-CD-CG-CB
1	M	55	MLY	CE-CD-CG-CB
1	P	55	MLY	CE-CD-CG-CB
1	P	553	MLY	CE-CD-CG-CB
1	A	431	MLY	CE-CD-CG-CB
1	P	431	MLY	CE-CD-CG-CB
1	A	248	MLY	CE-CD-CG-CB
1	J	431	MLY	CE-CD-CG-CB
1	M	431	MLY	CE-CD-CG-CB
1	D	431	MLY	CE-CD-CG-CB
1	G	248	MLY	CE-CD-CG-CB
1	J	248	MLY	CE-CD-CG-CB
1	P	248	MLY	CE-CD-CG-CB
1	P	138	MLY	CA-CB-CG-CD
1	D	248	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
1	D	35	MLY	CE-CD-CG-CB
1	G	35	MLY	CE-CD-CG-CB
1	J	35	MLY	CE-CD-CG-CB
1	M	35	MLY	CE-CD-CG-CB
1	P	35	MLY	CE-CD-CG-CB
1	G	528	MLY	CG-CD-CE-NZ
1	J	528	MLY	CG-CD-CE-NZ
1	P	528	MLY	CG-CD-CE-NZ
1	D	528	MLY	CG-CD-CE-NZ
1	M	528	MLY	CG-CD-CE-NZ
1	A	528	MLY	CG-CD-CE-NZ
1	G	248	MLY	CG-CD-CE-NZ
1	M	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	G	138	MLY	CA-CB-CG-CD
1	G	296	MLY	CA-CB-CG-CD
1	J	138	MLY	CA-CB-CG-CD
1	J	296	MLY	CA-CB-CG-CD

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Mol	Chain	Res	Type	Atoms
1	M	138	MLY	CA-CB-CG-CD
1	M	296	MLY	CA-CB-CG-CD
1	P	296	MLY	CA-CB-CG-CD
1	P	248	MLY	CG-CD-CE-NZ
1	A	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	A	436	MLY	CE-CD-CG-CB
1	A	600	MLY	CE-CD-CG-CB
1	D	598	MLY	CE-CD-CG-CB
1	D	600	MLY	CE-CD-CG-CB
1	M	436	MLY	CE-CD-CG-CB
1	A	598	MLY	CE-CD-CG-CB
1	D	436	MLY	CE-CD-CG-CB
1	G	436	MLY	CE-CD-CG-CB
1	G	598	MLY	CE-CD-CG-CB
1	G	600	MLY	CE-CD-CG-CB
1	J	436	MLY	CE-CD-CG-CB
1	J	600	MLY	CE-CD-CG-CB
1	M	598	MLY	CE-CD-CG-CB
1	M	600	MLY	CE-CD-CG-CB
1	P	436	MLY	CE-CD-CG-CB
1	P	600	MLY	CE-CD-CG-CB
1	J	598	MLY	CE-CD-CG-CB
1	P	598	MLY	CE-CD-CG-CB
1	A	486	MLY	CE-CD-CG-CB
1	G	486	MLY	CE-CD-CG-CB
1	P	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	M	839	MLY	CE-CD-CG-CB
1	G	839	MLY	CE-CD-CG-CB
1	J	839	MLY	CE-CD-CG-CB
1	P	839	MLY	CE-CD-CG-CB
1	A	839	MLY	CE-CD-CG-CB
1	D	839	MLY	CE-CD-CG-CB
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

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Mol	Chain	Res	Type	Atoms
1	M	236	MLY	CD-CE-NZ-CH2
1	P	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	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	436	MLY	N-CA-CB-CG
1	G	681	MLY	N-CA-CB-CG
1	G	833	MLY	N-CA-CB-CG
1	G	837	MLY	N-CA-CB-CG
1	J	35	MLY	N-CA-CB-CG
1	J	63	MLY	N-CA-CB-CG
1	J	130	MLY	N-CA-CB-CG
1	J	436	MLY	N-CA-CB-CG
1	J	681	MLY	N-CA-CB-CG
1	J	833	MLY	N-CA-CB-CG
1	J	837	MLY	N-CA-CB-CG
1	M	35	MLY	N-CA-CB-CG
1	M	63	MLY	N-CA-CB-CG
1	M	130	MLY	N-CA-CB-CG
1	M	436	MLY	N-CA-CB-CG
1	M	681	MLY	N-CA-CB-CG
1	M	833	MLY	N-CA-CB-CG
1	M	837	MLY	N-CA-CB-CG
1	P	35	MLY	N-CA-CB-CG
1	P	63	MLY	N-CA-CB-CG
1	P	130	MLY	N-CA-CB-CG
1	P	436	MLY	N-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	P	681	MLY	N-CA-CB-CG
1	P	833	MLY	N-CA-CB-CG
1	P	837	MLY	N-CA-CB-CG
1	J	833	MLY	C-CA-CB-CG
1	M	833	MLY	C-CA-CB-CG
1	P	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	J	19	MLY	CA-CB-CG-CD
1	M	19	MLY	CA-CB-CG-CD
1	P	19	MLY	CA-CB-CG-CD
1	D	837	MLY	CE-CD-CG-CB
1	A	19	MLY	CE-CD-CG-CB
1	J	837	MLY	CE-CD-CG-CB
1	M	837	MLY	CE-CD-CG-CB
1	G	837	MLY	CE-CD-CG-CB
1	A	837	MLY	CE-CD-CG-CB
1	D	19	MLY	CE-CD-CG-CB
1	J	19	MLY	CE-CD-CG-CB
1	M	19	MLY	CE-CD-CG-CB
1	P	19	MLY	CE-CD-CG-CB
1	P	837	MLY	CE-CD-CG-CB
1	G	19	MLY	CE-CD-CG-CB
1	J	613	MLY	CE-CD-CG-CB
1	M	613	MLY	CE-CD-CG-CB
1	G	613	MLY	CE-CD-CG-CB
1	P	613	MLY	CE-CD-CG-CB
1	D	613	MLY	CE-CD-CG-CB
1	A	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	M	598	MLY	CD-CE-NZ-CH2
1	P	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	D	833	MLY	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
1	G	63	MLY	C-CA-CB-CG
1	G	353	MLY	C-CA-CB-CG
1	G	833	MLY	C-CA-CB-CG
1	J	63	MLY	C-CA-CB-CG
1	J	353	MLY	C-CA-CB-CG
1	M	63	MLY	C-CA-CB-CG
1	M	353	MLY	C-CA-CB-CG
1	P	63	MLY	C-CA-CB-CG
1	P	353	MLY	C-CA-CB-CG
1	J	30	MLY	CA-CB-CG-CD
1	M	30	MLY	CA-CB-CG-CD
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	P	30	MLY	CA-CB-CG-CD
1	M	348	MLY	CE-CD-CG-CB
1	P	348	MLY	CE-CD-CG-CB
1	J	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
1	D	613	MLY	CA-CB-CG-CD
1	G	613	MLY	CA-CB-CG-CD
1	J	613	MLY	CA-CB-CG-CD
1	M	613	MLY	CA-CB-CG-CD
1	P	613	MLY	CA-CB-CG-CD
1	J	190	MLY	CA-CB-CG-CD
1	M	190	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	G	190	MLY	CA-CB-CG-CD
1	M	528	MLY	CA-CB-CG-CD
1	P	190	MLY	CA-CB-CG-CD
1	P	528	MLY	CA-CB-CG-CD

There are no ring outliers.

182 monomers are involved in 676 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	D	369	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	617	MLY	1	0
1	J	138	MLY	1	0
1	A	49	MLY	4	0
1	M	55	MLY	1	0
1	J	272	MLY	1	0
1	P	190	MLY	2	0
1	M	782	MLY	1	0
1	M	659	MLY	1	0
1	M	248	MLY	2	0
1	P	600	MLY	1	0
1	A	59	MLY	2	0
1	A	553	MLY	17	0
1	G	598	MLY	1	0
1	J	598	MLY	1	0
1	G	55	MLY	1	0
1	D	107	MLY	3	0
1	M	837	MLY	1	0
1	P	296	MLY	3	0
1	A	87	MLY	3	0
1	D	617	MLY	1	0
1	G	415	MLY	1	0
1	J	248	MLY	2	0
1	J	659	MLY	2	0
1	M	190	MLY	2	0
1	D	272	MLY	1	0
1	P	436	MLY	3	0
1	G	486	MLY	3	0
1	P	598	MLY	1	0
1	P	764	MLY	1	0
1	J	348	MLY	6	0
1	J	369	MLY	1	0
1	G	436	MLY	2	0
1	D	49	MLY	3	0
1	G	296	MLY	3	0
1	M	528	MLY	3	0
1	P	369	MLY	1	0
1	G	59	MLY	2	0
1	A	107	MLY	3	0
1	G	49	MLY	3	0
1	M	617	MLY	1	0
1	G	138	MLY	1	0
1	A	528	MLY	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	G	782	MLY	1	0
1	M	486	MLY	3	0
1	A	272	MLY	1	0
1	J	528	MLY	3	0
1	D	190	MLY	2	0
1	A	138	MLY	1	0
1	D	415	MLY	1	0
1	G	295	MLY	6	0
1	M	295	MLY	6	0
1	M	436	MLY	2	0
1	P	138	MLY	1	0
1	D	296	MLY	3	0
1	G	84	MLY	15	0
1	J	107	MLY	3	0
1	J	505	MLY	9	0
1	G	190	MLY	2	0
1	M	553	MLY	2	0
1	A	436	MLY	3	0
1	M	415	MLY	1	0
1	M	49	MLY	2	0
1	D	764	MLY	7	0
1	A	839	MLY	4	0
1	A	505	MLY	22	0
1	P	30	MLY	1	0
1	P	782	MLY	15	0
1	G	528	MLY	2	0
1	P	528	MLY	3	0
1	J	764	MLY	1	0
1	J	415	MLY	1	0
1	D	295	MLY	6	0
1	D	600	MLY	1	0
1	J	839	MLY	8	0
1	J	87	MLY	3	0
1	P	553	MLY	2	0
1	J	63	MLY	3	0
1	J	486	MLY	3	0
1	M	63	MLY	3	0
1	A	30	MLY	1	0
1	D	839	MLY	4	0
1	G	30	MLY	1	0
1	P	348	MLY	5	0
1	D	55	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	P	659	MLY	2	0
1	G	839	MLY	4	0
1	M	505	MLY	1	0
1	G	63	MLY	3	0
1	G	837	MLY	1	0
1	J	296	MLY	3	0
1	D	768	MLY	2	0
1	A	295	MLY	6	0
1	M	296	MLY	3	0
1	D	659	MLY	2	0
1	J	768	MLY	1	0
1	M	107	MLY	3	0
1	J	84	MLY	20	0
1	G	659	MLY	2	0
1	J	617	MLY	1	0
1	D	63	MLY	4	0
1	J	190	MLY	2	0
1	J	59	MLY	3	0
1	A	248	MLY	2	0
1	P	63	MLY	3	0
1	A	768	MLY	10	0
1	D	138	MLY	1	0
1	M	84	MLY	11	0
1	G	107	MLY	3	0
1	D	486	MLY	3	0
1	J	295	MLY	6	0
1	M	600	MLY	1	0
1	A	63	MLY	4	0
1	A	659	MLY	1	0
1	J	837	MLY	1	0
1	P	87	MLY	3	0
1	P	107	MLY	3	0
1	P	486	MLY	3	0
1	D	528	MLY	3	0
1	G	505	MLY	9	0
1	P	295	MLY	6	0
1	M	87	MLY	3	0
1	P	272	MLY	1	0
1	J	436	MLY	3	0
1	A	296	MLY	3	0
1	A	764	MLY	9	0
1	D	782	MLY	71	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	P	837	MLY	1	0
1	P	839	MLY	7	0
1	G	553	MLY	27	0
1	J	553	MLY	12	0
1	D	348	MLY	6	0
1	A	837	MLY	12	0
1	G	272	MLY	1	0
1	J	49	MLY	3	0
1	M	764	MLY	2	0
1	J	782	MLY	1	0
1	P	84	MLY	15	0
1	A	600	MLY	1	0
1	M	839	MLY	7	0
1	M	348	MLY	5	0
1	M	768	MLY	3	0
1	P	59	MLY	2	0
1	A	782	MLY	7	0
1	D	553	MLY	17	0
1	G	764	MLY	4	0
1	D	598	MLY	1	0
1	A	415	MLY	1	0
1	M	59	MLY	3	0
1	D	551	MLY	2	0
1	A	348	MLY	6	0
1	J	600	MLY	1	0
1	D	837	MLY	1	0
1	D	30	MLY	1	0
1	G	87	MLY	3	0
1	M	272	MLY	1	0
1	G	348	MLY	5	0
1	P	248	MLY	2	0
1	A	190	MLY	2	0
1	P	415	MLY	1	0
1	A	827	MLY	2	0
1	G	600	MLY	1	0
1	D	436	MLY	3	0
1	D	59	MLY	3	0
1	M	30	MLY	1	0
1	P	55	MLY	1	0
1	P	617	MLY	1	0
1	P	49	MLY	3	0
1	A	598	MLY	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	M	138	MLY	1	0
1	A	551	MLY	2	0
1	A	55	MLY	1	0
1	J	55	MLY	1	0
1	A	833	MLY	1	0
1	D	248	MLY	2	0
1	G	248	MLY	2	0
1	J	30	MLY	1	0
1	D	87	MLY	3	0
1	G	768	MLY	3	0
1	A	617	MLY	1	0
1	A	486	MLY	3	0
1	M	598	MLY	1	0

## 5.5 Carbohydrates [i](#)

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	P	6
1	D	4
1	A	4
1	M	4
1	J	3
1	G	3
3	C	1
3	F	1

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Mol	Chain	Number of breaks
3	I	1
3	L	1
3	O	1
3	R	1
2	B	1
2	E	1
2	H	1
2	K	1
2	N	1
2	Q	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	769:ALA	C	770:GLY	N	5.51
1	D	769:ALA	C	770:GLY	N	4.82
1	G	769:ALA	C	770:GLY	N	4.31
1	D	709:LYS	C	710:GLY	N	3.43
1	A	709:LYS	C	710:GLY	N	2.70
1	A	769:ALA	C	770:GLY	N	2.63
1	C	4:LYS	C	5:ALA	N	2.61
1	F	4:LYS	C	5:ALA	N	2.61
1	I	4:LYS	C	5:ALA	N	2.61
1	L	4:LYS	C	5:ALA	N	2.61
1	O	4:LYS	C	5:ALA	N	2.61
1	R	4:LYS	C	5:ALA	N	2.61
1	M	709:LYS	C	710:GLY	N	2.42
1	P	709:LYS	C	710:GLY	N	2.16
1	M	806:MET	C	807:VAL	N	1.74
1	P	786:ILE	C	787:ILE	N	1.67
1	P	806:MET	C	807:VAL	N	1.61
1	P	769:ALA	C	770:GLY	N	1.18
1	B	140:PHE	C	141:PRO	N	1.09
1	E	140:PHE	C	141:PRO	N	1.09
1	H	140:PHE	C	141:PRO	N	1.09
1	K	140:PHE	C	141:PRO	N	1.09
1	N	140:PHE	C	141:PRO	N	1.09
1	Q	140:PHE	C	141:PRO	N	1.09
1	A	637:LYS	C	638:GLY	N	1.06
1	G	637:LYS	C	638:GLY	N	1.06
1	M	637:LYS	C	638:GLY	N	1.06
1	P	637:LYS	C	638:GLY	N	1.06
1	D	637:LYS	C	638:GLY	N	1.05

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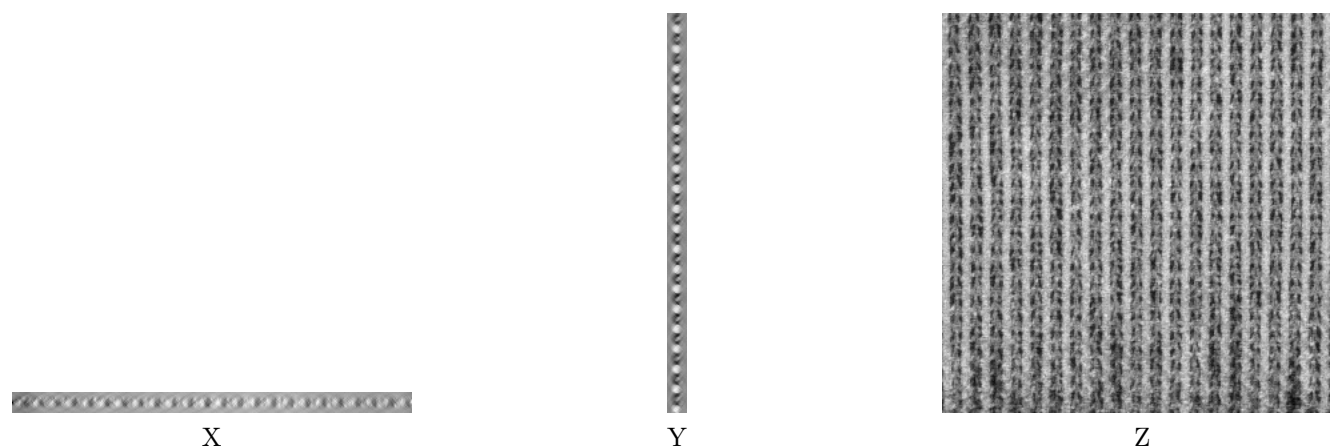
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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	J	637:LYS	C	638:GLY	N	1.05
1	D	649:VAL	C	650:SER	N	1.03
1	G	649:VAL	C	650:SER	N	1.03
1	J	649:VAL	C	650:SER	N	1.03
1	M	649:VAL	C	650:SER	N	1.03
1	P	649:VAL	C	650:SER	N	1.03
1	A	649:VAL	C	650:SER	N	1.02

## 6 Tomogram visualisation [i](#)

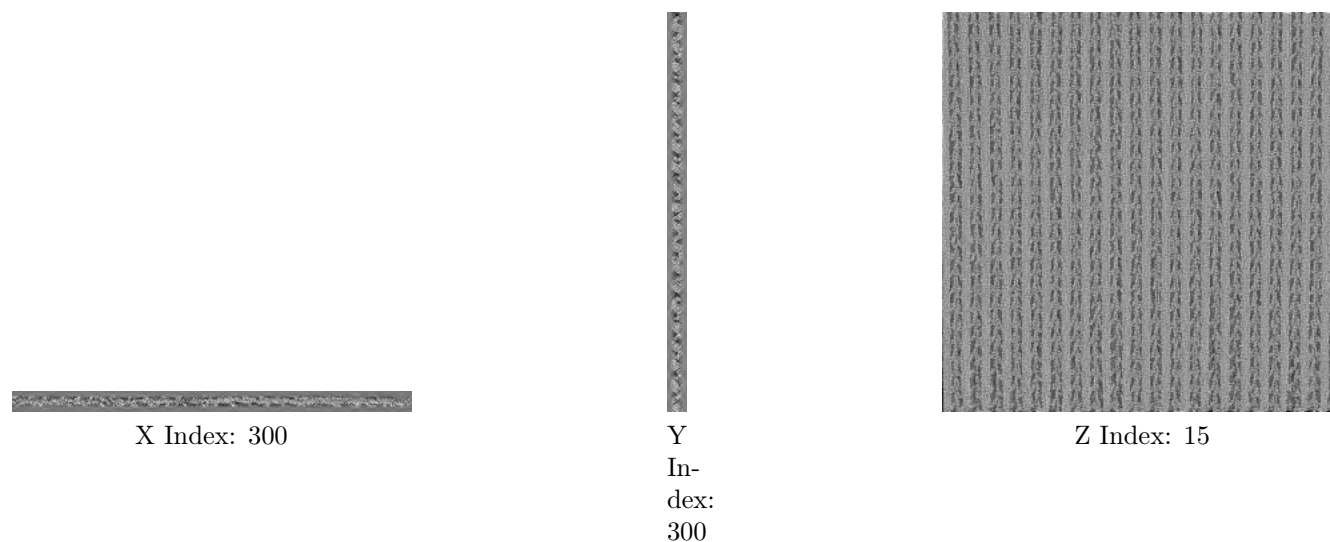
This section contains visualisations of the EMDB entry EMD-1001. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

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



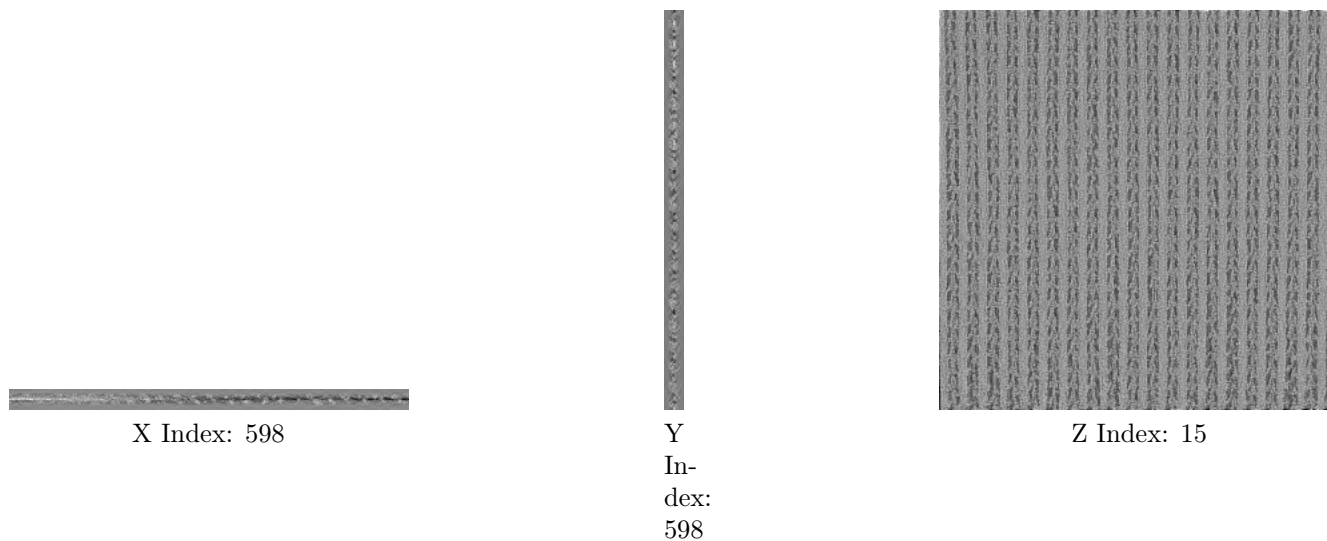
The images above show the tomogram projected in three orthogonal directions.

### 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.

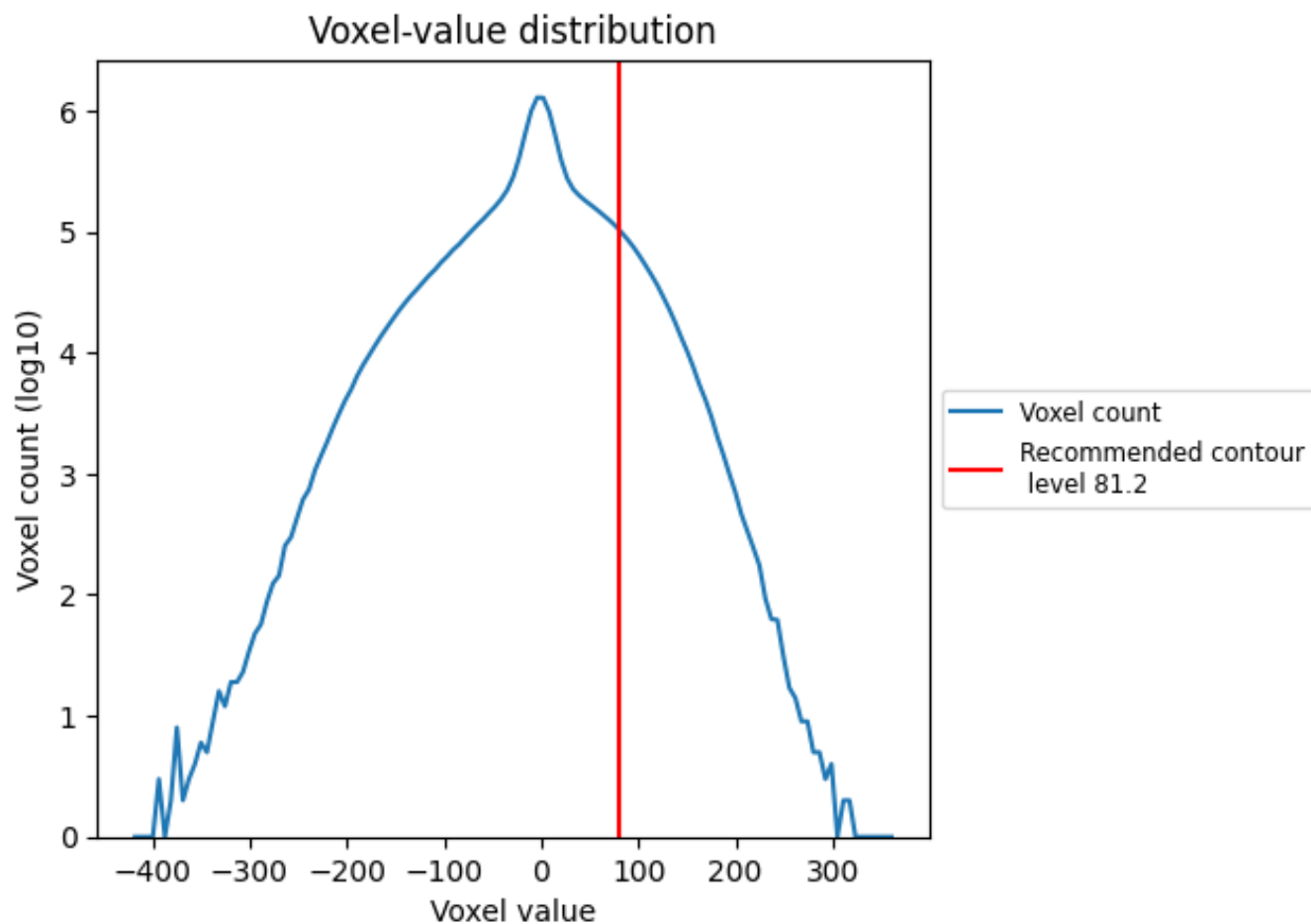
### 6.4 Mask visualisation [i](#)

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.

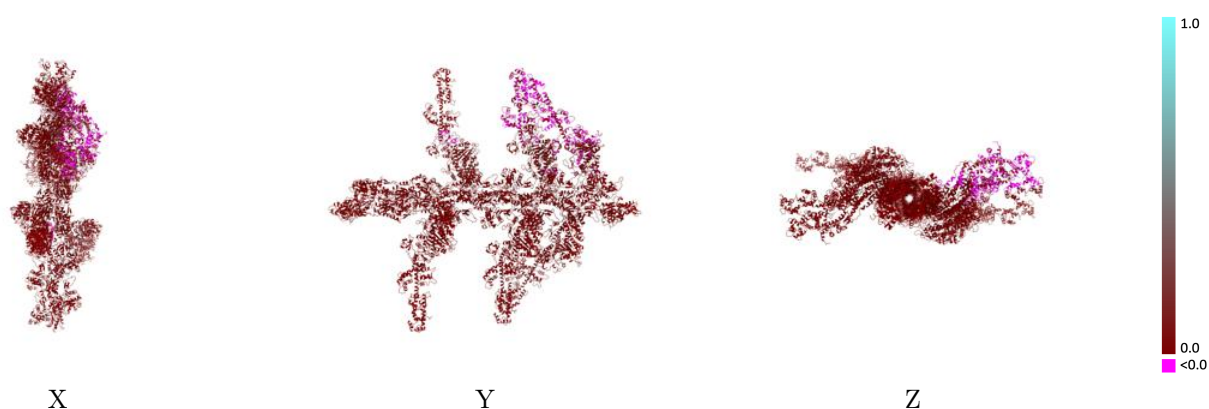
## 8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-1001 and PDB model 1O1E. 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](#)

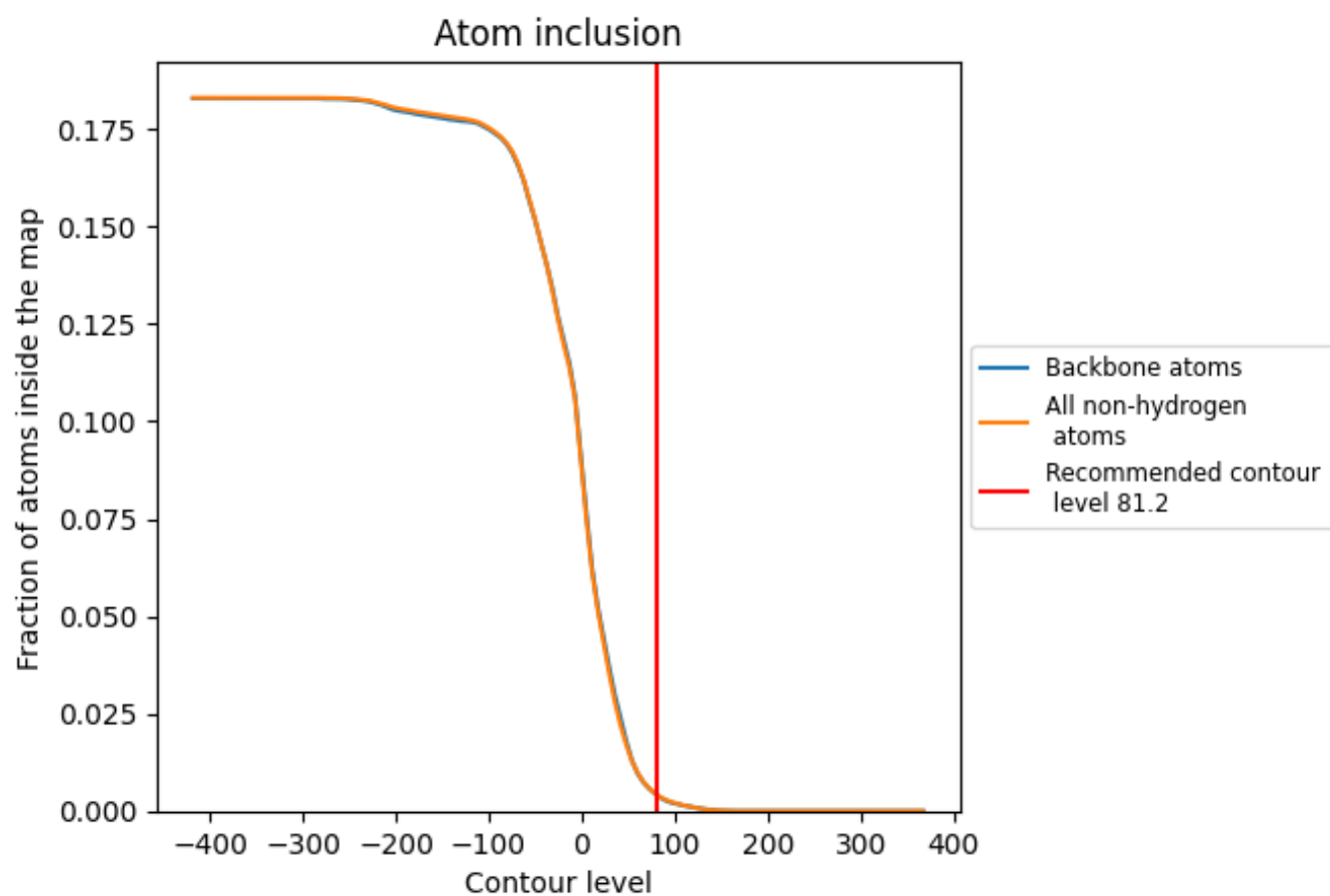


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 0% of all backbone atoms, 0% of all non-hydrogen atoms, are inside the map.

## 8.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	 0.0040	 -0.0010
1	 0.0684	 0.0000
2	 0.0000	 0.0000
3	 0.0000	 0.0000
4	 0.0000	 0.0000
5	 0.0000	 0.0000
6	 0.0000	 0.0000
7	 0.0000	 0.0000
8	 0.0000	 0.0020
9	 0.0000	 0.0000
A	 0.0000	 -0.0020
B	 0.0000	 -0.0070
C	 0.0000	 -0.0190
D	 0.0000	 0.0000
E	 0.0000	 0.0000
F	 0.0000	 0.0000
G	 0.0000	 0.0040
H	 0.0000	 -0.0080
I	 0.0054	 -0.0060
J	 0.0000	 0.0000
K	 0.0000	 0.0000
L	 0.0000	 0.0000
M	 0.0000	 -0.0030
N	 0.0000	 0.0000
O	 0.0000	 0.0000
P	 0.0005	 0.0000
Q	 0.0000	 0.0000
R	 0.0000	 0.0000
V	 0.0000	 -0.0010
W	 0.0477	 0.0000
X	 0.0000	 0.0000
Y	 0.0123	 0.0000
Z	 0.0000	 0.0000

